

Wednesday, February 03, 2010

Page 1 of 2  
REQUEST NUMBER: 10-1564

**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: 10-1564  
Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 2/3/2010

TURNAROUND/REPORT DUE: 3/5/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

*Justine L. V.*

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
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SW-846:8082	1	1	RE15-10-7332	R	2/1/2010	
	1	1	RE15-10-7333	R	2/1/2010	
	1	1	RE15-10-7342	R	2/1/2010	
SW-846:8321A_MOD	1	1	RE15-10-7332	R	2/1/2010	
	1	1	RE15-10-7333	R	2/1/2010	
	1	1	RE15-10-7334	R	2/1/2010	
	1	1	RE15-10-7335	R	2/1/2010	
	1	1	RE15-10-7336	R	2/1/2010	
	1	1	RE15-10-7337	R	2/1/2010	

Wednesday, February 03, 2010

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REQUEST NUMBER: 10-1564

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD						
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	

Final Page of REQUEST NUMBER 10-1564

Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1564

**LOS ALAMOS**

REQUEST NUMBER: 10-1564

**NATIONAL LABORATORY**

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

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
RE15-10-7332	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7333	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7336	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7337	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7334	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7335	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7338	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7339	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7342	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: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7332

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		Alt
TIME COLLECTED (HH:MM)		0850		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610565	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	✓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	1	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	1	H3	500 ML POLY	Ice	Y	
1	1	Met+U+CLO4+C N	1 GAL POLY 1/6/10	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish gray sand and cobbles

FD: RE15-10-7342

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 5 dpm

Beta/Gamma ≤ 1617 dpm

HE negative

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

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7333

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		0906		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610565			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAE POLY 1 liter LC 1/6/10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brown sand with cobbles and few roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 8g-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  11 dpm  
Beta/Gamma  $\leq$  1596 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarlane

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sheri Jewwood (Signature) Sheri Jewwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7334

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		Alh
TIME COLLECTED (HH:MM)		0910		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610566			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAT POLY liter SC 1/6/10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sand and cobbles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-4 center of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  22 dpm  
Beta/Gamma  $\leq$  1430 dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Newwood (Signature) Sherri Newwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7335

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		0920		SUB-MEDIA:	TUFF 1		L
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610566			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	4.0		SCREEN/PORT DESC:	NA		↓
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter KC 1/6/10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray tuff and brown sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-4 center of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  16 dpm  
Beta/Gamma  $\leq$  2080 dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Shervin Shewood (Signature) Shervin Shewood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7336

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	OBT3		ALLH
TIME COLLECTED (HH:MM)		0916		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610567			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	3		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	y	
1		H3	500 ML POLY	Ice	y	
1		Met+U+CLO4+C N	1 GAL POLY liter Re 1/6/10	Ice	y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC: brown sand with cobbles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-1

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha  $\leq$  11 dpm  
Beta/Gamma  $\leq$  1727 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7337

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		0928		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610567			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES (NO) NA				WATER FLOWING: YES (NO) NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	y	
1		H3	500 ML POLY	Ice	y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter RC 1/6/10	Ice	y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC: brown sand with cobbles

FR RE15-10-7344

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  11 dpm  
Beta/Gamma  $\leq$  1631 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherrill Newwood (Signature) Sherrill Newwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7338

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA: QBT3		All h	
TIME COLLECTED (HH:MM)		0935		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	15-610568	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC: NA			
FIELD MATRIX:	R	S		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES (NO) NA			
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	y	
1		H3	500 ML POLY	Ice	y	
1		Met+U+CLO4+C N	1 GAL POLY liter pc 1/6/10	Ice	y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Brown sand and cobbles, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-3

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  16 dpm  
Beta/Gamma  $\leq$  1506 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMofarland

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7339

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		
TIME COLLECTED (HH:MM)		02/01/2010 17:00		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610568	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		↓
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	y	
1	↓	H3	500 ML POLY	Ice	y	
1	↓	Met+U+CLO4+C N	1 GAL POLY liter LC 1/6/00	Ice	y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC: pinkish grey tuff and some brown sand

SAMPLE COMMENTS:  
NA

LOCATION DESC: 89-3

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 22 dpm  
Beta/Gamma ≤ 1893 dpmPID Ambient 0.0  
Reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarlane

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7342

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		Allh
TIME COLLECTED(HH:MM)		0850		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	UNK	15-610565		FIELD QC TYPE:	ED		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES <input checked="" type="radio"/> NO <input type="radio"/> NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES <input checked="" type="radio"/> NO <input type="radio"/> NA
BOREHOLE: YES <input checked="" type="radio"/> NO <input type="radio"/> NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 <del>GA</del> POLY liter RC 1/6/10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7332

Brownish gray sand and cobbles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-2

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha  $\leq$  5 dpmBeta/Gamma  $\leq$  1617 dpmPID  $\frac{\text{Ambient Reading}}{0.0} = 0.0$  ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7344

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		0936		SUB-MEDIA:	OTHER		
PRS ID:	15-008(g)	ok		SAMPLE TECH CODE:	QC		
LOCATION ID:	UNK	15-610567		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	UF		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:	NA		
FIELD MATRIX:	W			EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES (NO) NA				WATER FLOWING: YES (NO) NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	METALS+U-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 RE15-10-7337

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherrif Greenwood (Signature) Sherrif Greenwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## Rad Screening Data Release Form

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

RE 15-10-7332  
7333  
7334  
7335  
7336  
7337  
7338  
7339  
7342  
8304  
8305  
8306  
8307

RE 15-10-8308  
8309  
8300  
8301  
8324  
7981  
7982  
7983  
7984  
7985


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):

RE 15-10-7344 ] rinsate  
RE 15-10-8328

RE 15-10-8332 FTB

Reason:

.....  
Print Last Name McFarland Signature  Date 2/01/10

# Rad Screening Data Release Form

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

RE 15-10-7332	8307
7333	8306
7334	8305
7335	8304
7336	7342
7337	7339
7338	7338
7339	7337
8301	7336
8300	7335
8309	7334
RE 15-10-8308	7333
	7332
	7331
	7330
	7329
	7328
	7327
	7326
	7325
	7324
	7323
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	7000

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):

RE 15-10-7344 ] rinsate  
 RE 15-10-8328  
 RE 15-10-8332 FTB

Reason:

Print Last Name McFarland Signature [Signature] Date 2/07/10



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00040

Request or PO Number:

Client Sample ID: RE15-10-7332

ARS Sample ID: ARS2-10-00040-001

Sample Collection Date: 02/01/10 08:50

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/03/10 17:20

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MNR	TBI	Q-Val	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	34.46	29.40	37.46	39.70		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	36.30	15.14	18.46	15.78		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.06	0.12	0.10	0.12		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	12.33	6.00	1.59	6.01		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.00	10.40	0.11	10.40		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.17	0.14	0.08	0.14		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	-0.01	13.61	0.07	13.61		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	0.00	10.82	0.12	10.82		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	1.10	0.42	0.12	0.43		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PA-228	2.09	0.85	0.28	0.85		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	2.38	1.04	0.32	1.04		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	2.75	2.70	1.23	2.77		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	-0.01	34.51	0.08	34.51		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
NOTES: % Moisture: 0.94										

*M. J. Felt*  
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00040

Request or PO Number:

Client Sample ID: RE15-10-7333

ARS Sample ID: ARS2-10-00040-002

Sample Collection Date: 02/01/10 09:06

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/03/10 17:26

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YHL	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	30.31	25.76	31.30	26.03		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	37.85	14.56	16.49	15.27		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	26.29	8.14	1.46	8.18		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.00	9.53	6.10	9.53		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.07	0.09	0.07	0.09		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	0.06	0.15	0.07	0.15		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	0.46	0.42	0.11	0.42		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	0.72	0.37	0.14	0.37		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RA-228	1.47	0.73	0.25	0.73		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	1.31	0.85	0.44	0.85		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	3.87	2.06	1.18	2.97		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	0.02	0.10	0.06	0.10		pCi/g	EPA 901.1M	2/3/2010	ME	N/A

NOTES: % Moisture: 0.74

*Matthew J. Foley*  
Quality Assurance Review

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NELAP Certificate # E87558



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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00040

Request or PO Number:

Client Sample ID: RE15-10-7334

ARS Sample ID: AR52-10-00040-003

Sample Collection Date: 02/01/10 09:10

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/03/10 17:20

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TDI	Qnet	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	5.31	13.61	28.72	13.63		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	52.09	16.97	19.14	19.13		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	9.52	4.93	1.37	4.94		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	0.23	0.18	0.06	0.18		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	0.00	47.50	0.11	47.50		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	0.64	0.35	0.14	0.35		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RA-228	0.97	0.74	0.24	0.74		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	0.79	0.54	0.14	0.54		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	3.45	2.56	1.34	2.56		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	0.28	0.39	0.15	0.39		pCi/g	EPA 901.1M	2/3/2010	ME	N/A

NOTES: % Moisture: 1.99

*Matthew J. Folger*  
Quality Assurance Review

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NELAP Certificate # E67558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00040

Request or PO Number:

Client Sample ID: RE15-10-7335

ARS Sample ID: ARS2-10-00040-004

Sample Collection Date: 02/01/10 09:20

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/03/10 17:20

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPD	Qnet	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	39.13	30.12	37.10	38.50		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	38.36	18.47	18.29	16.16		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	29.28	9.79	1.88	9.83		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.00	12.30	0.12	12.30		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.12	0.14	0.09	0.14		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	0.13	0.18	0.08	0.18		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	0.61	0.57	0.14	0.57		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	1.41	0.56	0.18	0.56		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RA-228	1.23	0.74	0.33	0.74		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	-0.08	69.11	0.19	69.11		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	4.24	4.12	1.00	4.24		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	0.01	0.05	0.07	0.05		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
NOTES: % Moisture: 1.22										

  
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-872-2770 FAX 505-872-9334

ARS Sample Delivery Group: ARS2-10-00040

Request or PO Number:

Client Sample ID: RE15-10-7336

ARS Sample ID: ARS2-10-00040-005

Sample Collection Date: 02/01/10 09:16

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/03/10 17:20

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MFC	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	29.51	27.75	37.46	27.98		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	35.83	15.00	15.46	15.63		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	15.60	5.45	1.09	5.47		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.00	7.11	0.07	7.11		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.32	0.21	0.05	0.21		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	0.02	0.05	0.04	0.05		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	0.30	0.23	0.08	0.23		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	0.80	0.33	0.11	0.33		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RA-228	0.59	0.36	0.35	0.36		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	0.20	0.26	0.16	0.26		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	3.07	1.98	0.76	2.10		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	-0.01	23.60	0.05	23.60		pCi/g	EPA 901.1M	2/3/2010	ME	N/A

NOTES: % Moisture: 3.17

*Matthew L. Egan*  
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # EB7558





133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00040

Client Sample ID: RE15-10-7337

Sample Collection Date: 02/01/10 09:28

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00040-006

Date Received: 02/02/10 00:00

Report Date: 02/03/10 17:20

Analysis Description	Analysis Result	Analysis Error +/- 1 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	30.31	25.76	31.30	26.03		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	35.07	14.26	16.49	14.89		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	21.70	7.58	1.51	7.61		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.06	0.12	0.10	0.12		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	0.07	0.11	0.06	0.11		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	0.27	0.43	0.23	0.43		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	1.07	0.41	0.12	0.41		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RA-228	1.35	0.85	0.26	0.86		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	-0.06	88.23	0.20	88.23		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	1.92	1.68	0.89	1.71		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	0.16	0.18	0.06	0.18		pCi/g	EPA 901.1M	2/3/2010	ME	N/A

NOTES: % Moisture: 0.63

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

LELAP Certificate # 30658

NELAP Certificate # EB7558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00040

Request or PO Number:

Client Sample ID: RE15-10-7338

ARS Sample ID: AR52-10-00040-007

Sample Collection Date: 02/01/10 09:35

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/03/10 17:20

Analysis Description	Analysis Results	Analysis Error +/- 3 s	MDC	TRU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	53.60	32.88	28.72	33.93		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	57.65	18.47	19.14	19.77		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	16.18	5.83	1.20	5.85		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.00	7.83	0.08	7.84		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.05	0.08	0.05	0.08		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	-0.01	10.24	0.05	10.24		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RU-152	0.21	0.25	0.09	0.25		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PS-212	0.80	0.33	0.11	0.33		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PA-214	0.87	0.58	0.21	0.58		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	1.31	0.87	0.36	0.87		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	6.51	2.87	0.91	3.23		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	0.05	0.10	0.05	0.10		pCi/g	EPA 901.1M	2/3/2010	ME	N/A

NOTES: % Moisture: 1.80

*Matthew A. Edger*  
 Quality Assurance Review

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

NELAP Certificate# 30659

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00040

Client Sample ID: RE15-10-7339

Sample Collection Date: 02/01/10 09:43

Sample Matrix: Sml/Solid

Request or PO Number:

ARS Sample ID: AR52-10-00040-008

Date Received: 02/02/10 00:00

Report Date: 02/03/10 17:20

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	71.28	38.41	37.10	39.39		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	48.53	17.06	18.29	18.06		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	27.94	9.61	1.89	9.65		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.00	12.39	0.13	12.39		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.13	0.12	0.09	0.12		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	0.13	0.16	0.08	0.16		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	0.68	0.49	0.14	0.49		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	1.05	0.43	0.11	0.44		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RA-228	0.89	0.47	0.16	0.47		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	0.31	0.41	0.33	0.41		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	0.96	2.28	1.30	2.29		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	0.56	0.56	0.18	0.56		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
NOTES: % Moisture: 1.43										

  
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2110 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00040

Request or PO Number:

Client Sample ID: RE15-10-7342

ARS Sample ID: ARS2-10-00040-009

Sample Collection Date: 02/01/10 08:50

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/03/10 17:20

Analysis Description	Analysis Results	Analysis Error +/- %	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	83.87	42.53	37.46	43.75		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
GROSS BETA	81.34	20.05	18.46	22.39		pCi/g	EPA 900.0M	2/3/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
K-40	13.32	5.98	1.48	5.99		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CO-60	0.05	0.12	0.10	0.12		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-134	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
CS-137	0.10	0.13	0.06	0.13		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
EU-152	1.30	0.60	0.11	0.60		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
PB-212	0.35	0.37	0.16	0.37		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
RA-226	0.91	0.59	0.26	0.59		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-235	86.42	86.42	0.19	86.42		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
U-238	2.72	2.72	0.91	2.72		pCi/g	EPA 901.1M	2/3/2010	ME	N/A
AM-241	0.14	0.14	0.08	0.14		pCi/g	EPA 901.1M	2/3/2010	ME	N/A


NOTES: % Moisture: 1.25

Quality Assurance Review

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

LELAP Certificate # 30638

NELAP Certificate # EB7558

DATA VALIDATION COVER SHEET	
<b>5122-1</b>  <div style="text-align: center;"><b>Data Validation Cover Sheet</b></div>	Records Use only  

Section I.		
REQUEST NUMBER: <u>10-1564</u>	VALIDATION DATE: <u>03/31/10</u>	LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>		
VALIDATOR: <u>Susan Ball</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>		
ANALYTICAL SUITE (CHECK ALL THAT APPLY):		
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input checked="" type="checkbox"/> LCMSMS HIGH EXPLOSIVES
		<input type="checkbox"/> LCMSMS PERCHLORATES
		<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): _____		

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


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


1. The ICAL RRF for p-nitrotoluene was <0.01. The associated sample results were NDs and, thus, were qualified R,HE7b. The ICAL RRFs were <0.05 but ≥0.01 for 2-amino-4,6-dinitrotoluene, PETN, o-nitrotoluene, and m-nitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE7b.
2. It should be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate RT criteria could not be evaluated. No sample data were qualified as a result.
3. The CCV %Ds were >20% with positive bias for tetra. The associated sample results were NDs and, thus, were not qualified.
4. It should be noted that the parent QC sample was from another LANL RN. In addition, the raw data for the parent sample were not included in the data package. No sample data were qualified as a result.

Reviewed by: Mary DonovanLevel: IDate: 04/01/10


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

DATE: 03/31/10

DATA VALIDATION COVER SHEET	
<b>5122-1</b>  <b>Data Validation Cover Sheet</b>	Records Use only   Los Alamos NATIONAL LABORATORY EST. 1943
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, HE9	J-, HE9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The holding time was >2 times the applicable holding time requirement.	R, HE9a	J-, HE9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.)	UJ, R, HE15	R, HE15
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. The sample was diluted because target analytes were > the initial verification calibration.	UJ, HE15a	J, HE15a

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

Records Use only



Yes No N/A (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: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312079.wiff

Date Analyzed: 13-MAR-10 18:18

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 250080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010121.wiff

Date Analyzed: 02-MAR-10 16:32

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	20800	

\*Concentration =

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

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010079.wiff

Date Analyzed: 02-MAR-10 05:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
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: RE15-10-7333

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318002

Sample Amount 2

Moisture: 5.7

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312080.wiff

Date Analyzed: 13-MAR-10 18:45

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7333

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318002

Sample Amount 2

Moisture: 5.7

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010118.wiff

Date Analyzed: 02-MAR-10 15:45

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	554	J
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

\*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution Factor  
Sample Amount

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312081.wiff

Date Analyzed: 13-MAR-10 19:11

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 UJ,HE7b	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7b	1000	U
88-72-2	o-Nitrotoluene UJ,HE7b	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene UJ,HE7b	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene R,HE7b	500	U

\*Concentration =

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



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010122.wiff

Date Analyzed: 02-MAR-10 16:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	23900	

\*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010081.wiff

Date Analyzed: 02-MAR-10 06:02

Units: ug/kg

Cas No.	Compound	Concentration*	Q
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: RE15-10-7336

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318004

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312082.wiff

Date Analyzed: 13-MAR-10 19:37

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 UJ,HE7b	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7b	1000	U
88-72-2	o-Nitrotoluene UJ,HE7b	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene UJ,HE7b	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene R,HE7b	500	U

\*Concentration =

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

SEB  
3/31/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7336

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318004

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010119.wiff

Date Analyzed: 02-MAR-10 16:01

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312083.wiff

Date Analyzed: 13-MAR-10 20:04

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010123.wiff

Date Analyzed: 02-MAR-10 17:03

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	27300	

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010083.wiff

Date Analyzed: 02-MAR-10 06:33

Units: ug/kg

Cas No.	Compound	Concentration*	Q
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: RE15-10-7334

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318006

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312084.wiff

Date Analyzed: 13-MAR-10 20:30

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 UJ,HE7b	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7b	1000	U
88-72-2	o-Nitrotoluene UJ,HE7b	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene UJ,HE7b	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene R,HE7b	500	U

\*Concentration =

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



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7334

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318006

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010120.wiff

Date Analyzed: 02-MAR-10 16:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	327	J
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: RE15-10-7335

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318007

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312085.wiff

Date Analyzed: 13-MAR-10 20:57

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 UJ,HE7b	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7b	1000	U
88-72-2	o-Nitrotoluene UJ,HE7b	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene UJ,HE7b	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene R,HE7b	500	U

\*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7335

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318007

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010085.wiff

Date Analyzed: 02-MAR-10 07:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5280	
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: RE15-10-7338

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318008

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312086.wiff

Date Analyzed: 13-MAR-10 21:23

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7338

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318008

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010086.wiff

Date Analyzed: 02-MAR-10 07:20

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7339

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318009

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312090.wiff

Date Analyzed: 13-MAR-10 23:09

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 UJ,HE7b	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7b	1000	U
88-72-2	o-Nitrotoluene UJ,HE7b	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene UJ,HE7b	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene R,HE7b	500	U

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7339

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318009

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010090.wiff


Date Analyzed: 02-MAR-10 08:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	16600	
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

\*Concentration =

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

DATA VALIDATION COVER SHEET	
<b>5116-1</b>  <p style="text-align: center;"><b>Data Validation Cover Sheet</b></p>	Records Use only  

Section I.	
REQUEST NUMBER: <u>10-1564</u>	VALIDATION DATE: <u>03/31/10</u> LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>	
VALIDATOR: <u>Susan Ball</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>	
ANALYTICAL SUITE (CHECK ALL THAT APPLY):	
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY
<input type="checkbox"/> OTHER (DESCRIBE): <u>PCBs</u>	<input type="checkbox"/> DIOXIN FURANS <input type="checkbox"/> LCMSMS PERCHLORATES <input type="checkbox"/> PCB CONGENERS <input checked="" type="checkbox"/> ORGANOCHLORINE <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES      PESTICIDES/POLYCHLORINATED BIPHENYLS

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

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

1. The parent QC sample was from another LANL RN, and the raw data for the parent QC sample were not included in the data package. Since the analysis of an MS/MSD pair was not a client requirement, no sample results were qualified.

Reviewed by: Mary DonovanLevel: IDate: 04/01/10VALIDATOR'S SIGNATURE: DATE: 03/31/10



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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

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

Page 1 of 1

SDG Number: 10-1564  
Lab Sample ID: 246318001

Date Collected: 02/01/2010 12:00  
Date Received: 02/05/2010 09:00  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.03 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 6.5  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-7332  
Batch ID: 951946  
Run Date: 02/12/2010 11:21  
Prep Date: 02/11/2010 22:01  
Data File: 023f2301.d  
023b2301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.56	ug/kg	1.19	3.56	1
11104-28-2	Aroclor-1221	U	3.56	ug/kg	1.19	3.56	1
11141-16-5	Aroclor-1232	U	3.56	ug/kg	1.19	3.56	1
53469-21-9	Aroclor-1242	U	3.56	ug/kg	1.19	3.56	1
12672-29-6	Aroclor-1248	U	3.56	ug/kg	1.19	3.56	1
11097-69-1	Aroclor-1254	U	3.56	ug/kg	1.19	3.56	1
11096-82-5	Aroclor-1260	U	3.56	ug/kg	1.19	3.56	1

SEB  
3/31/10

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

SDG Number: 10-1564  
Lab Sample ID: 246318002

Date Collected: 02/01/2010 12:00  
Date Received: 02/05/2010 09:00  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.06 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 5.7  
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	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

SEB  
3/31/10

## PCB

Page 1 of 1

Certificate of Analysis  
Sample SummarySDG Number: 10-1564  
Lab Sample ID: 246318003Date Collected: 02/01/2010 12:00  
Date Received: 02/05/2010 09:00  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.07 g  
Column: 1 CLP1  
2 CLP2Matrix: R  
%Moisture: 5.6  
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	3.52	ug/kg	1.17	3.52	1
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	1
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	1
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	1
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	1
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	1
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	1

SEB  
3/31/10

Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1564

LOS ALAMOS

REQUEST NUMBER: 10-1564

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

General Engineering Laboratories, Inc.,  
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

246318°/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7332	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7333	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7336	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7337	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7334	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7335	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7338	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7339	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7342	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 03, 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: 10-1564  
Per Agreement Number: 126310011  
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 2/3/2010  
TURNAROUND/REPORT DUE: 3/5/2010  
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background  
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
	SW-846:8321A_MOD	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	

REQUEST NUMBER: 10-1584

Wednesday, February 03, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8321A_MOD	1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	

Final Page of REQUEST NUMBER 10-1584



February 10, 2010

[www.gel.com](http://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: 246318  
SDG: 10-1564

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 05, 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: 10-1564  
Enclosures

**Los Alamos National Laboratory (72733-001-09)**  
**LANL ER Project**  
**Work Order #: 246318**  
**SDG: 10-1564**

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# Case Narrative

**Case Narrative for  
Los Alamos National Laboratory (72733-001-09)  
LANL ER Project  
Workorder #: 246318  
SDG # : 10-1564**

**February 10, 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 05, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

**Sample Identification** The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
246318001	RE15-10-7332
246318002	RE15-10-7333
246318003	RE15-10-7342
246318004	RE15-10-7336
246318005	RE15-10-7337
246318006	RE15-10-7334
246318007	RE15-10-7335
246318008	RE15-10-7338
246318009	RE15-10-7339

**Case Narrative**

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

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

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



Valerie Davis  
Project Manager

**List of current GEL Certifications as of 10 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 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1564

LOS ALAMOS

REQUEST NUMBER: 10-1564

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

General Engineering Laboratories, Inc.,  
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

246318°/

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7332	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7333	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7336	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7337	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7334	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7335	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7338	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7339	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7342	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 03, 2010

**LOS ALAMOS**  
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples  
according to the schedule indicated:

**SHIP DATE: 2/3/2010**

**TURNAROUND/REPORT DUE: 3/5/2010**

**TURNAROUND REQ'D: 30 Days**

**RAD SCREENING: Yes, Below Background**

**LAB REQUEST COMMENTS:**

LANL ER SMO CONTACT:

Signature: 

Page 1 of 2

REQUEST NUMBER: 10-1564

These Samples are on:

LANL Request Number: 10-1564

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
	SW-846:8321A_MOD	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	

REQUEST NUMBER: 10-1564

Wednesday, February 03, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	

Final Page of REQUEST NUMBER 10-1564



## SAMPLE RECEIPT &amp; REVIEW FORM

Client: LANL			SDG/ARCO/Work Order: 10-1564		
Received By: Patricia Dover-Dent			Date Received: February 5, 2009		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 80 CPM	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken   damaged container   leaking container   other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags   blue ice   dry ice   none   other (describe) 3-6   9-14C
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken   damaged container   leaking container   other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			X	Sample ID's affected: time written on containers, not on COC
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#S

7209 7849 9021 3C	7209 7849 8963 4C	7209 7849 8724 6C	7209 7849 8665 12C
7209 7849 9065 3C	7209 7849 8805 4C	7209 7849 9043 6C	7209 7849 8676 13C
7209 7849 9010 3C	7209 7849 8779 4C	7209 7849 8827 6C	7209 7849 9000 14C
7209 7849 8780 4C	7209 7849 8838 5C	7209 7849 9124 6C	
7209 7849 8735 4C	7209 7849 8816 5C	7209 7849 8941 9C	
7209 7849 8713 4C	7209 7849 8790 5C	7209 7849 8952 10C	
7209 7849 8746 4C	7209 7849 9054 6C	7209 7849 8687 11C	
7209 7849 8974 4C	7209 7849 8702 6C	7209 7849 8698 12C	

ORIGIN ID: SAFA (505) 665-8988  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTWT: 52.8 LB MAN  
CAD: 0014176/CAFE244  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 6B010AMR1A015AGWKO

3°

ORIGIN ID: SAFA (505) 665-8988  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTWT: 52.8 LB MAN  
CAD: 0014176/CAFE2449  
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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
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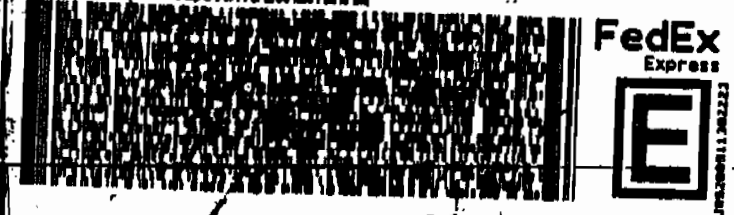
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FRI - 05FEB A1  
PRIORITY OVERNIGHT

XX CHSA

29407  
SC-US  
CHS



TRKH 7209 7849 9065  
FRI - 05FEB A1  
PRIORITY OVERNIGHT

XX CHSA

29407  
SC-US  
CHS



ORIGIN ID: SAFA (505) 665-8988  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTWT: 56.8 LB MAN  
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BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 6B010AMR1A015AGWKO

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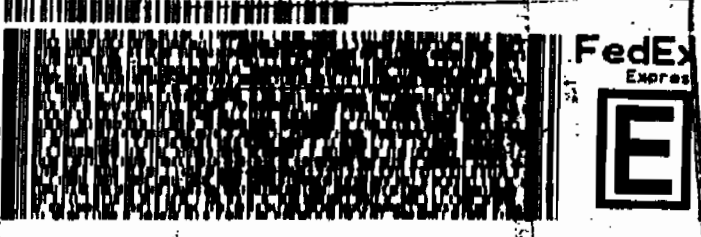
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JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 6B010AMR1A015AGWKO

4°



3 of 3  
FRI - 05FEB A1  
PRIORITY OVERNIGHT  
MPN 7209 7849 9010  
Matr 7209 7849 8996

XX CHSA

29407  
SC-US  
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2 of 2  
FRI - 05FEB A1  
PRIORITY OVERNIGHT  
MPN 7209 7849 8780  
Matr 7209 7849 8779

XX CHSA

29407  
SC-US  
CHS

ALAMOS NATL LAB  
8 BLDG 1237 DPU 03  
ALAMOS, NM 87545  
UNITED STATES US

ACTIVITY: 46.0 LB-NAN  
CNO: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

40

CHARLESTON SC 29407

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98020011302233

ORIGIN ID: SAFA (505) 666-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
7800 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTIVITY: 50.0 LB-NAN  
CNO: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

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REF: 68010AMR3A0520A00

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FRI - 05FEB A1  
PRIORITY OVERNIGHT

# 7209 7849 8724 (0201)

29407  
SC-US  
CHS

XX CHSA



7209 7849 8713

FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

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BILL SENDER

SHIP DATE: 04FEB10  
ACTIVITY: 47.0 LB-NAN  
CNO: 0014176/CAFE2449  
BILL SENDER

ORIGIN ID: SAFA (505) 666-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
7800 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTIVITY: 50.0 LB-NAN  
CNO: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

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CHARLESTON SC 29407

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GENERAL ENGINEERING LAB  
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REF: 68010AMR3A0520A00

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3 of 3  
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FRI - 05FEB A1  
PRIORITY OVERNIGHT

# 7209 7849 8724 (0201)

29407  
SC-US  
CHS

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2 of 2  
7209 7849 8974

FRI - 05FEB A1  
PRIORITY OVERNIGHT

# 7209 7849 8963 (0201)

29407  
SC-US  
CHS

XX CHSA

ORIGIN: SAFA (505) 666-0060  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T800 BLDG 1237 DMU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTING: 57.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171

REF: 6B010ANR1A015AGWKO

ORIGIN: SAFA (505) 666-0060  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T800 BLDG 1237 DMU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTING: 57.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

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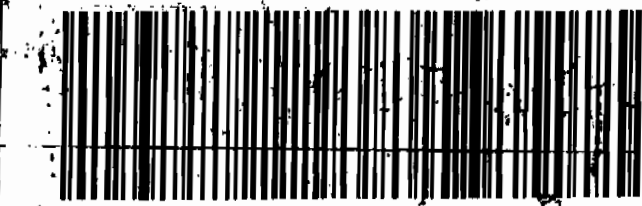
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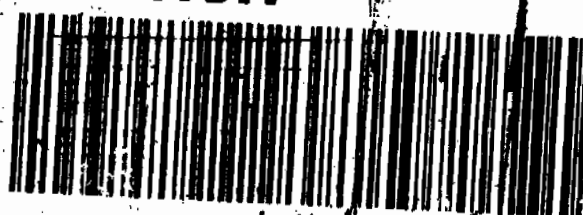


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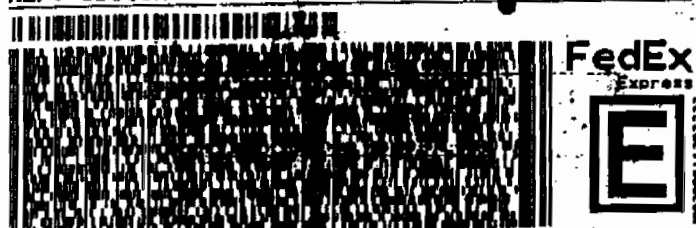


LOS ALAMOS, NM 87545  
UNITED STATES US  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171

REF: 6B010ANR1A015AGWKO



ORIGIN: SAFA (505) 666-0060  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T800 BLDG 1237 DMU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

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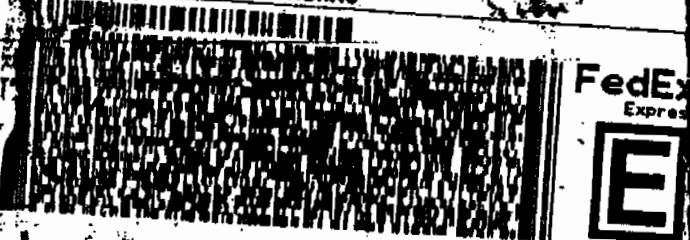
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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

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(843) 566-8171

REF: 6B010ANR1A015AGWKO



1 of 2  
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MASTER

FRI - 05FEB A1  
PRIORITY OVERNIGHT

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TRKH 7209 7849 8838

FRI - 05FEB A1  
PRIORITY OVERNIGHT

XX CHSA

29407  
SC-US  
CHS



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

SHIP DATE: 04FEB10  
ACTWGT: 66.0 LB MAN  
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545  
UNITED STATES US

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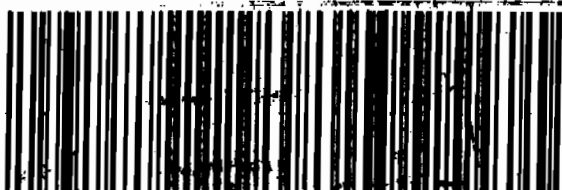
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PRIORITY OVERNIGHT

MASTER NM

XX CHSA

29407  
SC-US  
CHS



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

SHIP DATE: 04FEB10  
ACTWGT: 67.0 LB MAN  
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545  
UNITED STATES US

BILL SENDER

VALERIE DAVIS  
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2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 68010AMR3A0532VROO



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FRI - 05FEB A1  
PRIORITY OVERNIGHT

MatrN 7209 7849 9043 0201

XX CHSA

29407  
SC-US  
CHS

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

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTWGT: 67.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 68010AMR1A015AGWKO



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1 of 2  
TRK 7209 7849 8790  
0201

FRI - 05FEB A1  
PRIORITY OVERNIGHT

MASTER NM

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29407  
SC-US  
CHS



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

SHIP DATE: 04FEB10  
ACTWGT: 66.0 LB MAN  
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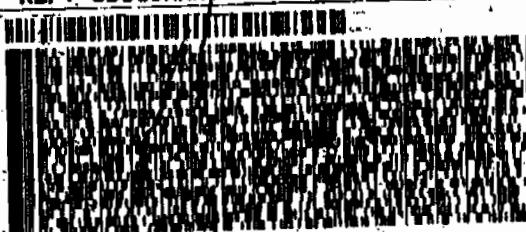
LOS ALAMOS, NM 87545  
UNITED STATES US

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 68010AMR3A0532VROO



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3 of 3  
MPSH 7209 7849 8702  
0263

FRI - 05FEB A1  
PRIORITY OVERNIGHT

MatrN 7209 7849 8687 0201

XX CHSA

29407  
SC-US  
CHS

ORIGIN ID: SAFA (505) 655-9900  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGG BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 05FEB10  
ACTWGT: 49.8 LB MAN  
CAD: 0014176/CAFE2449  
BILL SENDER

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

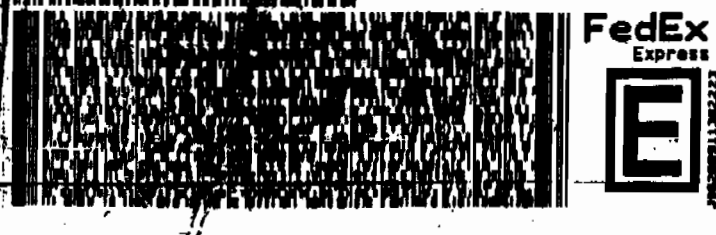
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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

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CHARLESTON SC 29407  
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PRIORITY OVERNIGHT

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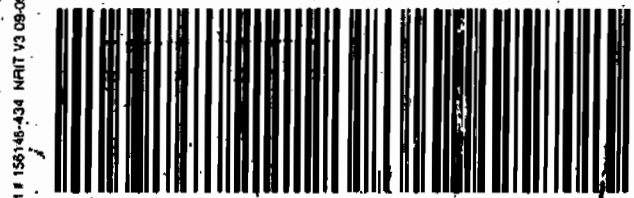
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FRI - 05FEB A1  
PRIORITY OVERNIGHT

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SC-US  
CHS

XX CHSA



ORIGIN ID: SAFA (505) 655-9900  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGG BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 05FEB10  
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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 6B010AMR1A015AGMK0

ORIGIN ID: SAFA (505) 655-9900  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGG BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 05FEB10  
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BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 6B010AMR1A015AGMK0



2 of 2  
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FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

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TRKH 7209 7849 9124  
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FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

XX CHSA

LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

ACTWGT: 50.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 04FEB10  
ACTWGT: 61.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

9°  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171

REF: 58010AMR3A0520A00

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GENERAL ENGINEERING LAB  
2040 SAVAGE RD

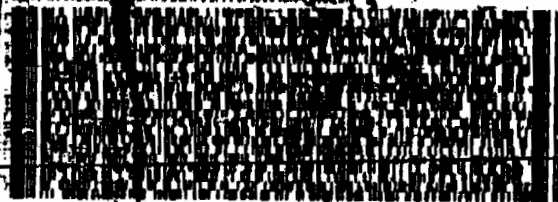
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1 of 2  
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0201  
NM MASTER NM

FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

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2 of 2  
TPSH 7209 7849 8952  
0263  
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FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

XX CHSA



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

SHIP DATE: 04FEB10  
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BILL SENDER

11°  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171

REF: 58010AMR3A0520A00

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

SHIP DATE: 04FEB10  
ACTWGT: 49.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

12°  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 566-8171

REF: 58010AMR3A0520A00



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1 of 3  
TRK# 7209 7849 8687  
0201  
NM MASTER NM

FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

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0263  
Matr# 7209 7849 8687 0201

FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

XX CHSA

08-08

JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T800 BLDG 1237 DPU 03

CRD: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS NM 87545  
UNITED STATES US

12  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-0171

REF: 6B010AMR3A8528A00

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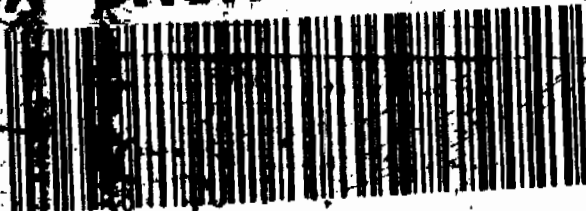


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CHS

XX CHSA



JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T800 BLDG 1237 DPU 03

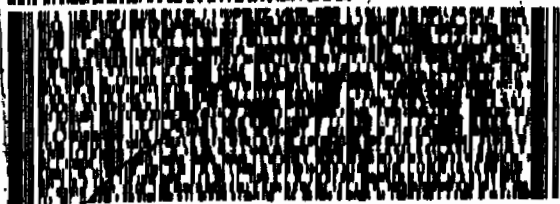
LOS ALAMOS NM 87545  
UNITED STATES US

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-0171

REF: 6B010AMR1A015AGNKO



FedEx  
Express



2 of 3  
TIPS# 7209 7849 9000  
Matr# 7209 7849 8996

14  
FRI - 05FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

XX CHSA

2 of 2  
TIPS# 7209 7849 8676  
Matr# 7209 7849 8665

FRI - 05FEB AF  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

XX CHSA



SHIP DATE: 04FEB10  
ACTWT: 30.8 LB MAN  
CRD: 0014176/CAFE2449

BILL SENDER

# **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 10-1564**

**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: 950081

Prep Batch Number: 950080

**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>
246318001	RE15-10-7332
246318002	RE15-10-7333
246318003	RE15-10-7342
246318004	RE15-10-7336
246318005	RE15-10-7337
246318006	RE15-10-7334
246318007	RE15-10-7335
246318008	RE15-10-7338
246318009	RE15-10-7339
1202035678	Method Blank (MB)
1202035679	Laboratory Control Sample (LCS)
1202035680	246330002(RE15-10-8304) Matrix Spike (MS)
1202035681	246330002(RE15-10-8304) Matrix Spike Duplicate (MSD)

**Preparation/Analytical Method Verification**

**SOP Reference**

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

**Primary Analyte Analysis**

**Calibration Information**

**Initial Calibration**

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

10-1564-EXPLCMS

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#### **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 246330002 (RE15-10-8304) from SDG 10-1567 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

##### **Matrix Spike (MS) Recovery Statement**

The MS spike recoveries were within the established acceptance limits.

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

The MSD spike recoveries were within the established acceptance limits.

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

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

##### **Internal Standard (ISTD) Acceptance**

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

#### **Technical Information**

##### **Holding Time Specifications**

All samples in this SDG in this analytical batch met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection 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 246330002 (RE15-10-8304) from SDG 10-1567 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

**Matrix Spike (MS) Recovery Statement**

The MS spike recoveries were within the established acceptance limits.

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

The MSD spike recoveries were within the established acceptance limits.

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

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

#### **Internal Standard (ISTD) Acceptance**

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

#### **Technical Information**

##### **Holding Time Specifications**

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

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

All procedures were performed as stated in the SOP.

##### **Sample Dilutions**

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. Samples 246318001 (RE15-10-7332), 246318003 (RE15-10-7342) and 246318005 (RE15-10-7337) were further diluted to bring the over range concentrations within the calibration range. The final dilution in each case takes the 1:2 initial dilution into consideration.

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

Samples 246318002 (RE15-10-7333), 246318004 (RE15-10-7336) and 246318006 (RE15-10-7334) were re-analyzed for potential carryover from the previous sample. The re-analysis data are reported.

#### **Miscellaneous Information**

##### **Data Exception (DER) Documentation**

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

##### **Manual Integrations**

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

##### **Flagging Convention**

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

##### **Additional Comments**

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

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

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

### 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:

Hebert K. Mauer Date: 03/25/10

# SAMPLE DATA SUMMARY

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312079.wiff

Date Analyzed: 13-MAR-10 18:18

Units: ug/kg

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

\*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010121.wiff

Date Analyzed: 02-MAR-10 16:32

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	20800	

\*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: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010079.wiff

Date Analyzed: 02-MAR-10 05:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
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: RE15-10-7333

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318002

Sample Amount 2

Moisture: 5.7

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312080.wiff

Date Analyzed: 13-MAR-10 18:45

Units: ug/kg

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

\*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7333

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318002

Sample Amount 2

Moisture: 5.7

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010118.wiff

Date Analyzed: 02-MAR-10 15:45

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	554	J
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: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312081.wiff

Date Analyzed: 13-MAR-10 19:11

Units: ug/kg

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

\*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010122.wiff

Date Analyzed: 02-MAR-10 16:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	23900	

\*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: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010081.wiff

Date Analyzed: 02-MAR-10 06:02

Units: ug/kg

Cas No.	Compound	Concentration*	Q
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: RE15-10-7336

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318004

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312082.wiff

Date Analyzed: 13-MAR-10 19:37

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7336

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318004

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010119.wiff

Date Analyzed: 02-MAR-10 16:01

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312083.wiff

Date Analyzed: 13-MAR-10 20:04

Units: ug/kg

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

\*Concentration =

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



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010123.wiff

Date Analyzed: 02-MAR-10 17:03

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	27300	

\*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: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010083.wiff

Date Analyzed: 02-MAR-10 06:33

Units: ug/kg

Cas No.	Compound	Concentration*	Q
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: RE15-10-7334

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318006

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312084.wiff

Date Analyzed: 13-MAR-10 20:30

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7334

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318006

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010120.wiff

Date Analyzed: 02-MAR-10 16:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	327	J
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: RE15-10-7335

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318007

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312085.wiff

Date Analyzed: 13-MAR-10 20:57

Units: ug/kg

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

\*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7335

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318007

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010085.wiff

Date Analyzed: 02-MAR-10 07:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5280	
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: RE15-10-7338

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318008

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312086.wiff

Date Analyzed: 13-MAR-10 21:23

Units: ug/kg

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

\*Concentration =

Instrument Value	X	<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: RE15-10-7338

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318008

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010086.wiff

Date Analyzed: 02-MAR-10 07:20

Units: ug/kg

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

\*Concentration =

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



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7339

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318009

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312090.wiff

Date Analyzed: 13-MAR-10 23:09

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7339

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318009

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010090.wiff

Date Analyzed: 02-MAR-10 08:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	16600	
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): 10-1564

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
246318001	RE15-10-7332	90.4	70 - 144	
246318001	RE15-10-7332	99.2	70 - 144	
246318001	RE15-10-7332	99.2	70 - 144	
246318002	RE15-10-7333	93.6	70 - 144	
246318002	RE15-10-7333	96.4	70 - 144	
246318003	RE15-10-7342	92	70 - 144	
246318003	RE15-10-7342	97.2	70 - 144	
246318003	RE15-10-7342	98.6	70 - 144	
246318004	RE15-10-7336	94.8	70 - 144	
246318004	RE15-10-7336	95.2	70 - 144	
246318005	RE15-10-7337	103	70 - 144	
246318005	RE15-10-7337	98.4	70 - 144	
246318005	RE15-10-7337	102	70 - 144	
246318006	RE15-10-7334	98	70 - 144	
246318006	RE15-10-7334	92.8	70 - 144	
246318007	RE15-10-7335	97.6	70 - 144	
246318007	RE15-10-7335	98.8	70 - 144	
246318008	RE15-10-7338	96.8	70 - 144	
246318008	RE15-10-7338	95.6	70 - 144	
246318009	RE15-10-7339	92	70 - 144	
246318009	RE15-10-7339	99.6	70 - 144	
1202035678	MB for batch 950080	106	70 - 144	
1202035678	MB for batch 950080	105	70 - 144	
1202035679	LCS for batch 950080	75.6	70 - 144	
1202035679	LCS for batch 950080	96	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)** 10-1564

**Extract Batch Code:** 950080

**Date Extracted:** 15-FEB-10

**GEL LCS ID:** 1202035679

**GEL LCSDUP ID:**

**Analysis Date/Time:** 13-MAR-10 17:52

**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	4220	84.4					69 - 126
2,4,6-Trinitrotoluene	5000	4180	83.6					73 - 149
2,4-Dinitrotoluene	5000	4610	92.2					87 - 137
2,6-Dinitrotoluene	5000	4650	93					89 - 120
2-Amino-4,6-dinitrotoluene	5000	4700	94					90 - 130
4-Amino-2,6-dinitrotoluene	5000	4500	90					84 - 130
HMX	5000	4160	83.2					58 - 138
Nitrobenzene	5000	4670	93.4					71 - 122
PETN	5000	4680	93.6					64 - 137
RDX	5000	4830	96.6					81 - 137
Tetryl	5000	2930	58.6					51 - 112
m-Dinitrobenzene	5000	4390	87.8					83 - 122
m-Nitrotoluene	5000	3680	73.6					73 - 118
o-Nitrotoluene	5000	4420	88.4					72 - 119
p-Nitrotoluene	5000	4000	80					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) 10-1564

Extract Batch Code: 950080

Date Extracted: 15-FEB-10

GEL LCS ID: 1202035679

GEL LCSDUP ID:

Analysis Date/Time: 02-MAR-10 05:15

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,6-Diamino-4-nitrotoluene	5000	5440	109					64 - 122
3,5-Dinitroaniline	5000	4980	99.6					70 - 127
TATB	5000	5850	117					28 - 162
2,4-Diamino-6-nitrotoluene	5000	5460	109					52 - 114
tris(o-cresyl) phosphate	5000	4570	91.4					84 - 119

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

\* Values outside of QC limits

# High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1564

Extract Batch Code: 950080

Date Extracted: 15-FEB-10

GEL Spike ID: 1202035680

GEL SpikeDup ID: 1202035681

Analysis Date/Time: 14-MAR-10 00:02

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	4350	87	4820	96.4	10.3	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	4230	84.6	4480	89.6	5.74	30	76 - 144
2,4-Dinitrotoluene	5000	0	4690	93.8	4980	99.6	6	30	86 - 135
2,6-Dinitrotoluene	5000	0	4880	97.6	5440	109	10.9	30	90 - 118
2-Amino-4,6-dinitrotoluene	5000	0	4660	93.2	4950	99	6.04	30	85 - 137
4-Amino-2,6-dinitrotoluene	5000	0	4850	97	5110	102	5.22	30	72 - 143
HMX	5000	0	4320	86.4	4670	93.4	7.79	30	51 - 144
Nitrobenzene	5000	0	4260	85.2	4770	95.4	11.3	30	70 - 122
PETN	5000	0	5150	103	5320	106	3.25	30	60 - 140
RDX	5000	0	4530	90.6	4890	97.8	7.64	30	59 - 152
Tetryl	5000	0	3220	64.4	4210	84.2	26.6	30	36 - 124
m-Dinitrobenzene	5000	0	4680	93.6	5160	103	9.76	30	85 - 118
m-Nitrotoluene	5000	0	4750	95	4580	91.6	3.64	30	70 - 120
o-Nitrotoluene	5000	0	4500	90	4590	91.8	1.98	30	69 - 123
p-Nitrotoluene	5000	0	4430	88.6	4270	85.4	3.68	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: RE15-10-8304

Lab Code: GEL

GEL Job No (SDG) 10-1564

Extract Batch Code: 950080

Date Extracted: 15-FEB-10

GEL Spike ID: 1202035680

GEL SpikeDup ID: 1202035681

Analysis Date/Time: 02-MAR-10 08:55

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	4480	89.6	4430	88.6	1.12	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	5140	103	5310	106	3.25	30	55 - 130
3,5-Dinitroaniline	5000	0	4820	96.4	5000	100	3.67	30	73 - 129
tris(o-cresyl) phosphate	5000	0	4660	93.2	4950	99	6.04	30	72 - 127
TATB	5000	0	5410	108	5310	106	1.87	30	29 - 155

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



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-MAR-10 07:58

GEL Data File: EXP0312001.wiff

Instrument ID: LCMSMS

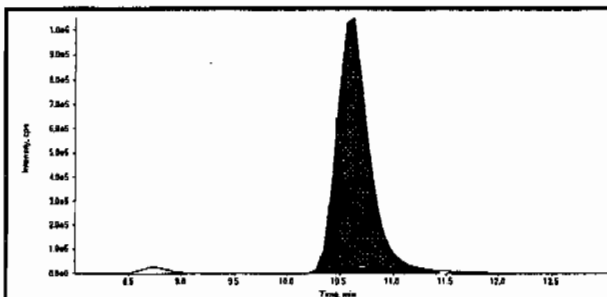
Column: Phenomenex Ultracarb 5u ODS(20)

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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

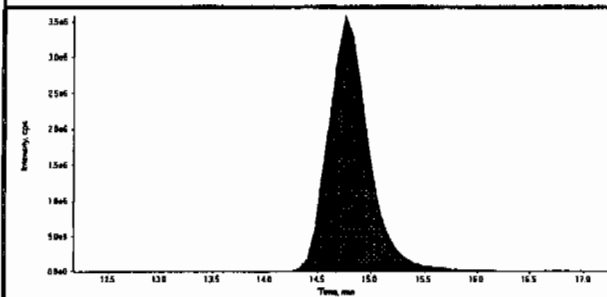
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312001.wiff	Acquisition Date	3/12/2010 7:58:58 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



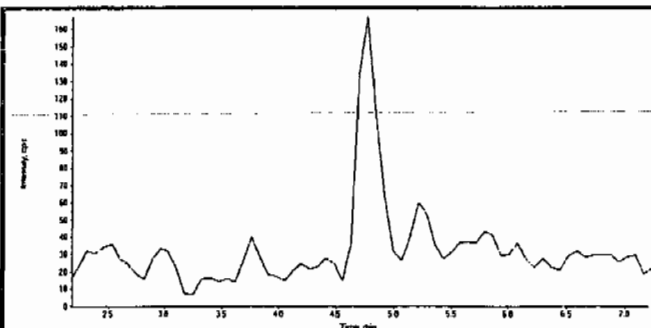
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

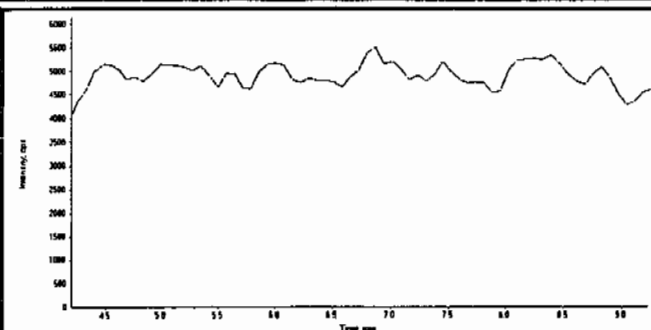


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	95900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

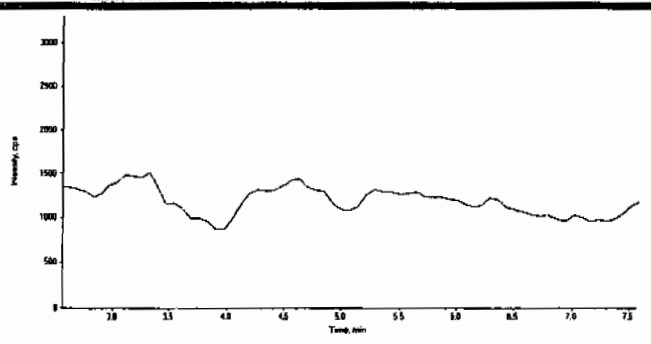
*LER*  
3/24/10  
*Hmm*  
03/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

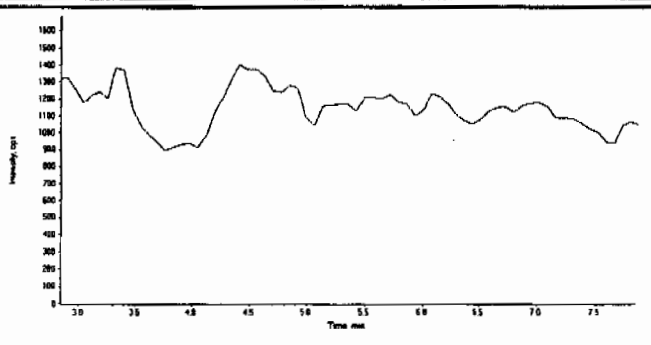
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312001.wiff	<b>Acquisition Date</b>	3/12/2010 7:58:58 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

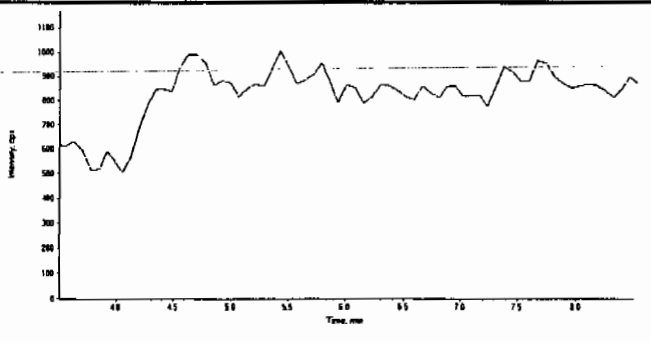
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

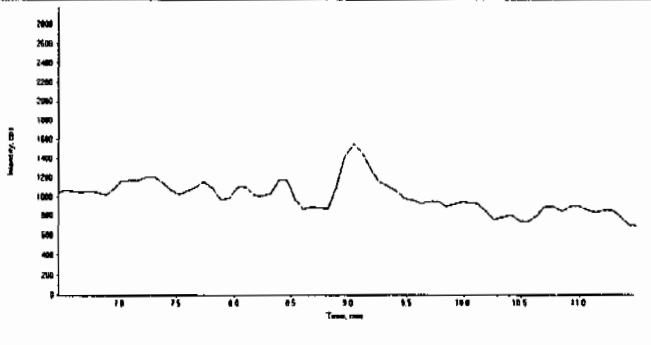
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312001.wiff	<b>Acquisition Date</b>	3/12/2010 7:58:58 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

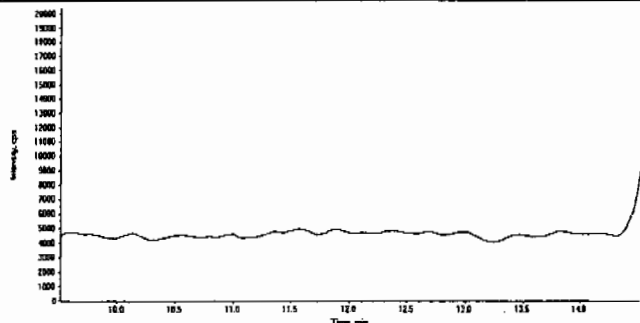
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

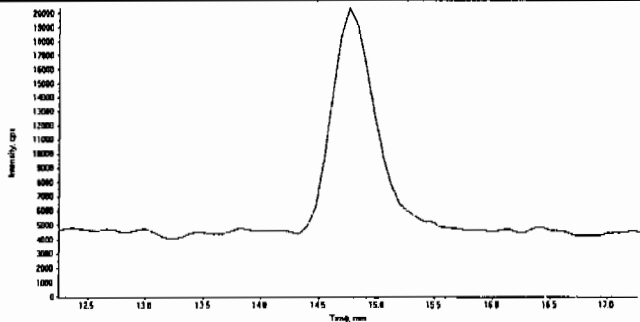
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312001.wiff	<b>Acquisition Date</b>	3/12/2010 7:58:58 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch/Dilution/Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

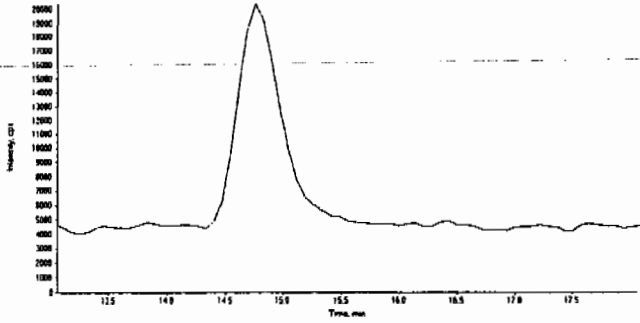
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

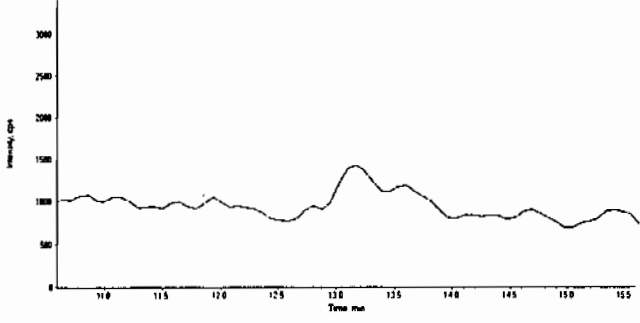
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

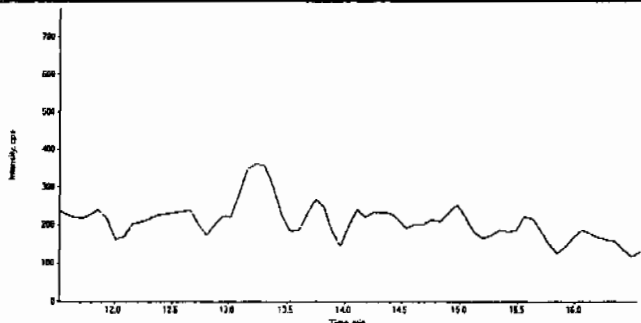
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

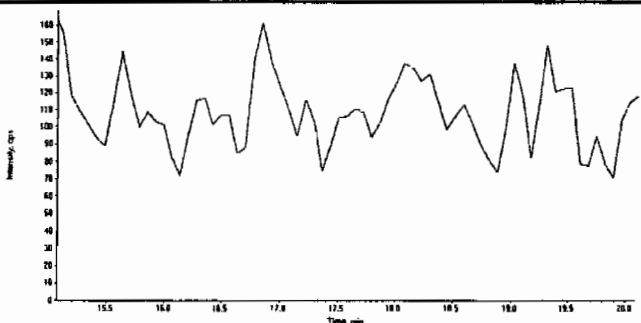
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312001.wiff	<b>Acquisition Date</b>	3/12/2010 7:58:58 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

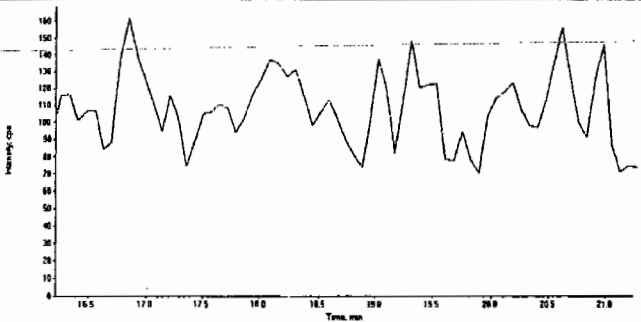
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

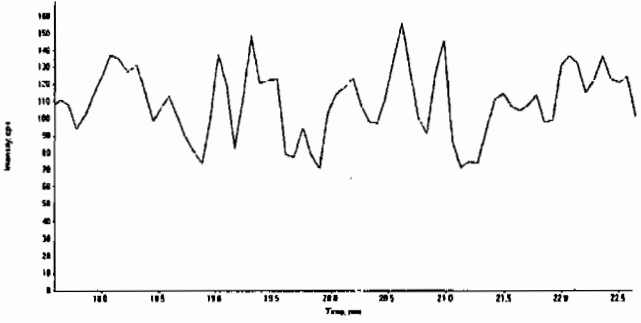
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

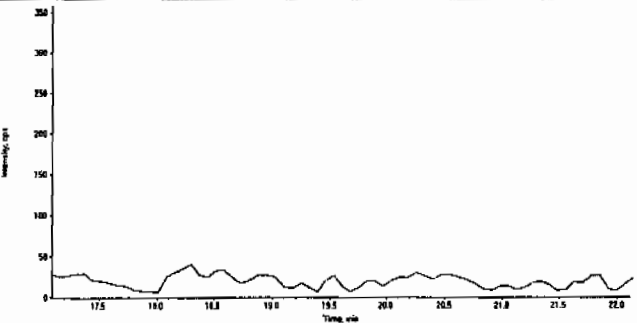
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312001.wiff	<b>Acquisition Date</b>	3/12/2010 7:58:58 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-MAR-10 08:25

GEL Data File: EXP0312002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

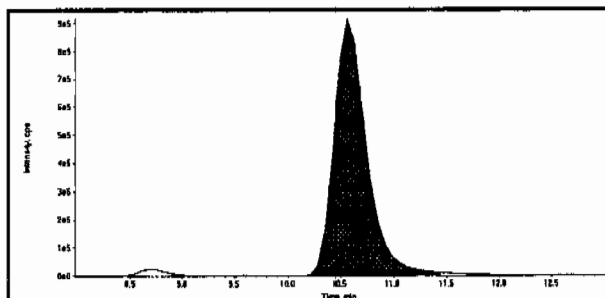
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene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



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

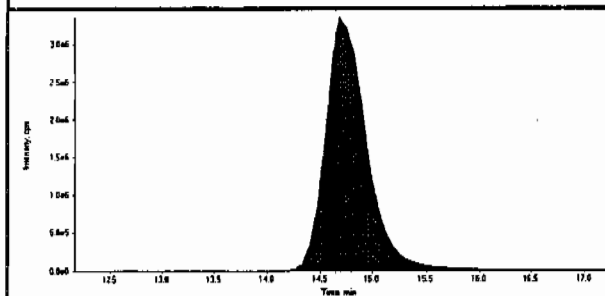
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



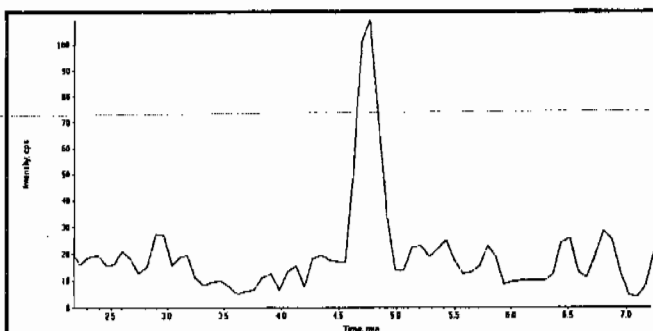
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

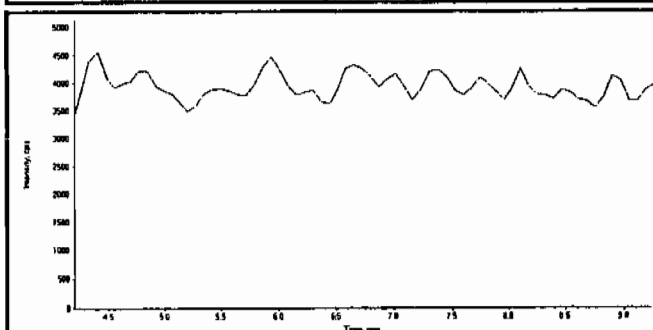


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	93700000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

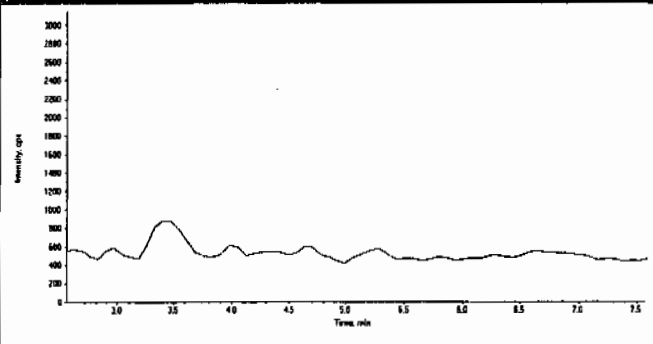
*San*  
*3/24/10*  
*HW*  
*03/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

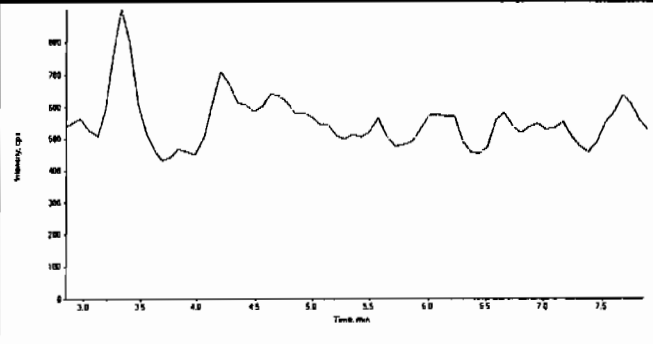
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312002.wiff	<b>Acquisition Date</b>	3/12/2010 8:25:19 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

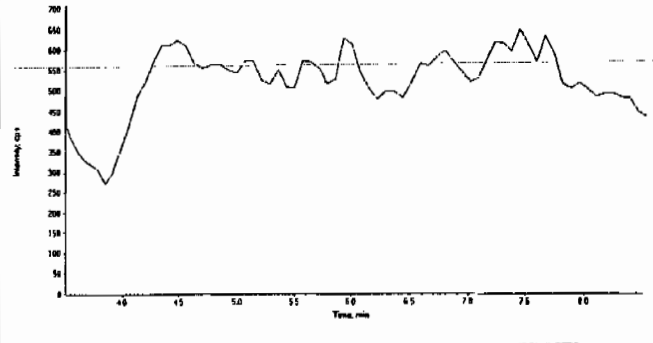
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

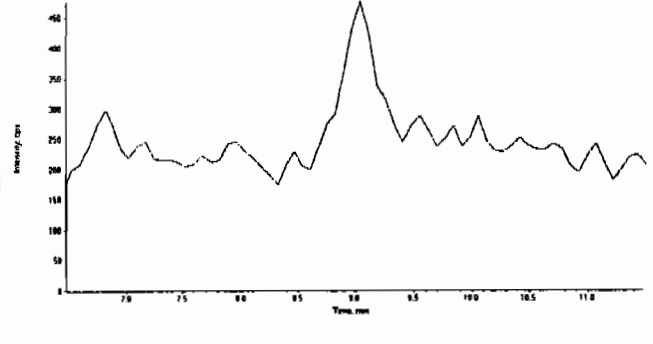
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312002.wiff	<b>Acquisition Date</b>	3/12/2010 8:25:19 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312002.wiff	<b>Acquisition Date</b>	3/12/2010 8:25:19 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312002.wiff	<b>Acquisition Date</b>	3/12/2010 8:25:19 AM
<b>Sample Name</b>	XIBLK01	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

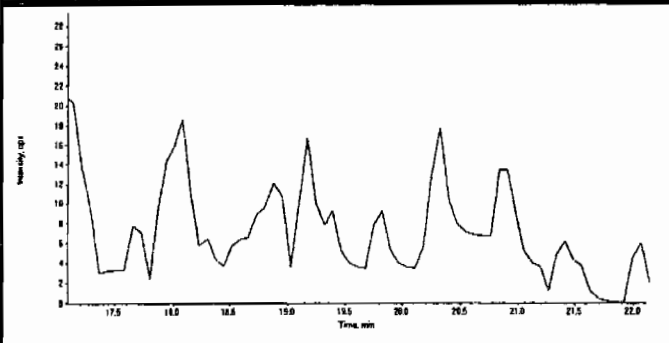
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312002.wiff	Acquisition Date	3/12/2010 8:25:19 AM
Sample Name	XIBLK01	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-MAR-10 09:03

GEL Data File: EXS03010001.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

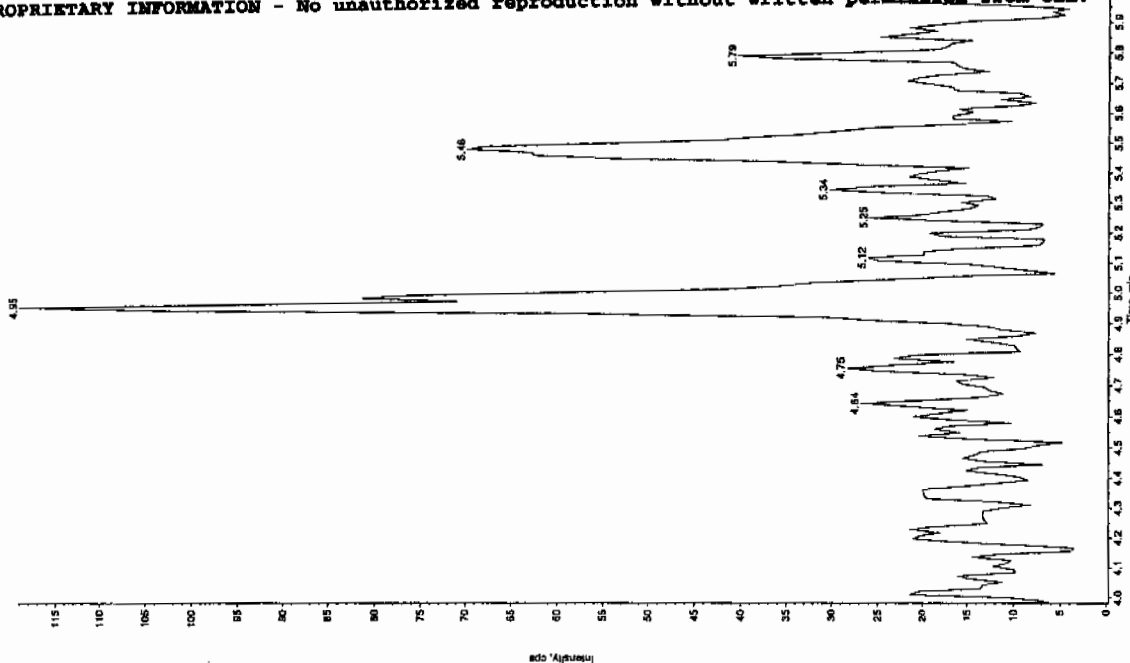
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0





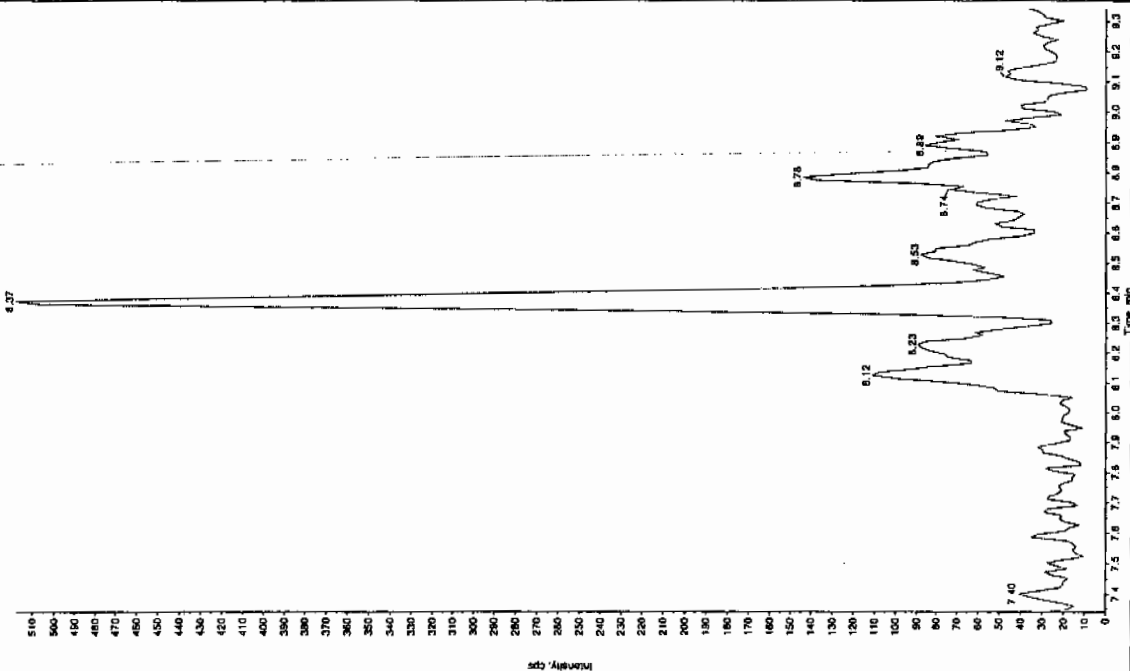
Sample Name: "XBLK01" Sample ID: "HILLER" File: "EX503010001.will"  
 Peak Name: "26-Diamino-4-nitroindane" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:03:19 AM  
 Modified: No



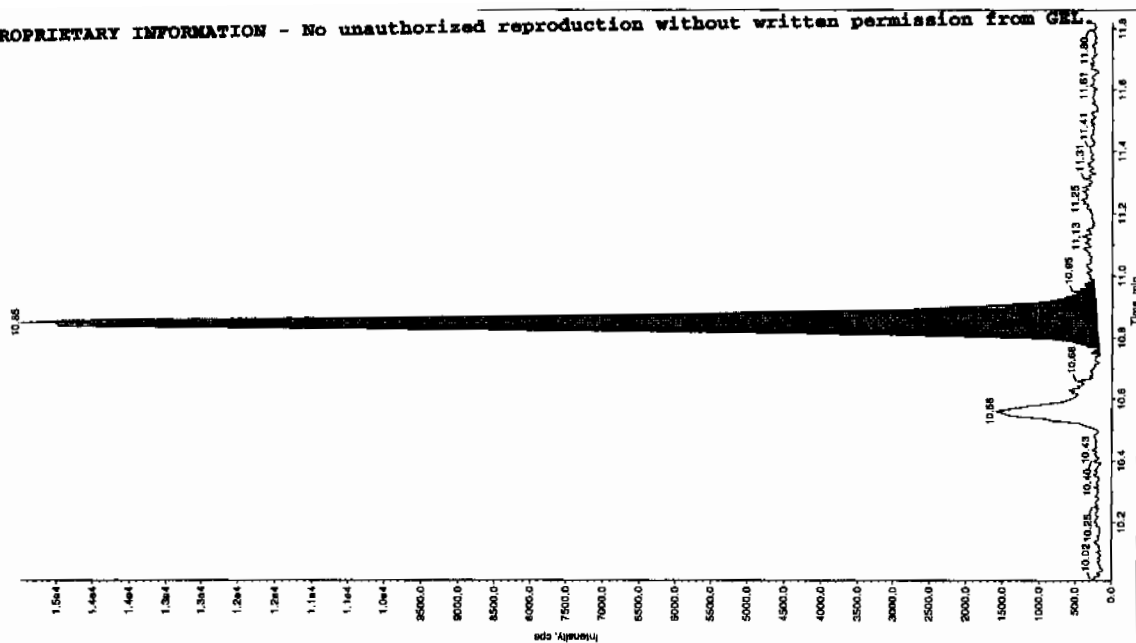
Sample Name: "XBLK01" Sample ID: "HILLER" File: "EX503010001.will"  
 Peak Name: "34-Dinitroindane" Mass(es): "182.1451.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:03:19 AM  
 Modified: No



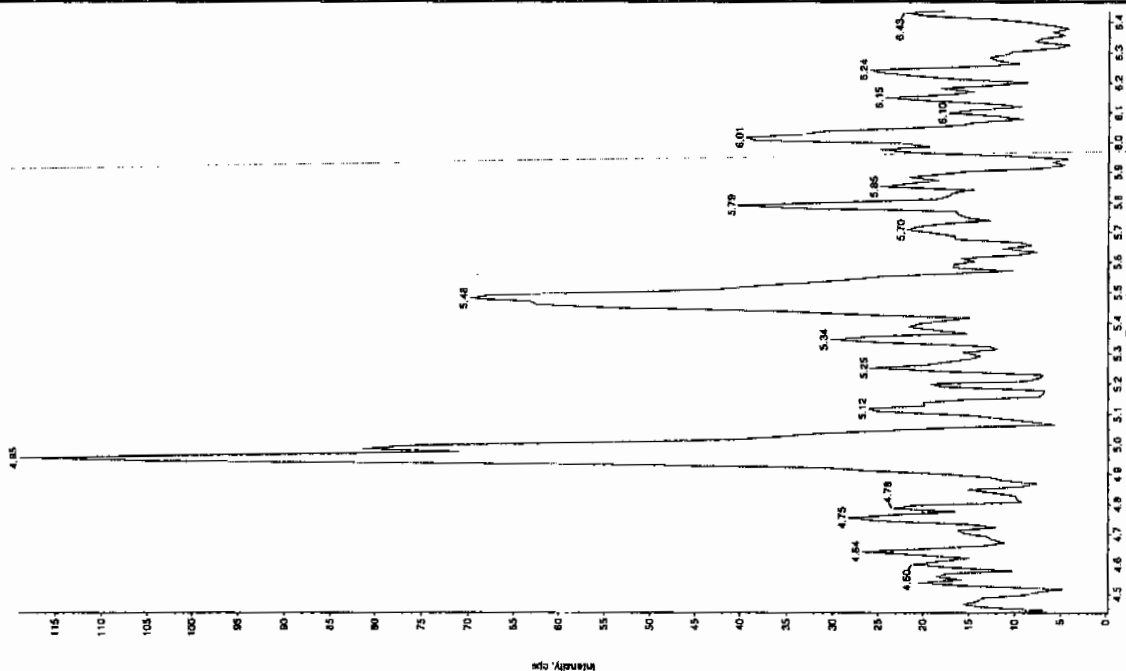
Sample Name: "XIBUK01" Sample ID: "111ER" File: "EXS03010001.wif"  
 Peak Name: "Iris(O-cresyl) phosphate" Mass(es): "369.191.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: No Intercept  
 Acq. Date: 3/17/2010  
 Acq. Time: 9:03:19 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 AT Window: 30.0 sec  
 Expected RT: 10.3 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.5 min  
 Area: 5.36e+004 counts  
 Height: 14777.323 cps  
 Start Time: 10.7 min  
 End Time: 11.0 min



Sample Name: "XIBUK01" Sample ID: "111ER" File: "EXS03010001.wif"  
 Peak Name: "24-Diamino-6-nitratoluene" Mass(es): "195.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: N/A  
 Acq. Date: 3/17/2010  
 Acq. Time: 9:03:19 AM  
 Modified: No



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

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-MAR-10 09:19

GEL Data File: EXS03010002.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

for 3/3/10

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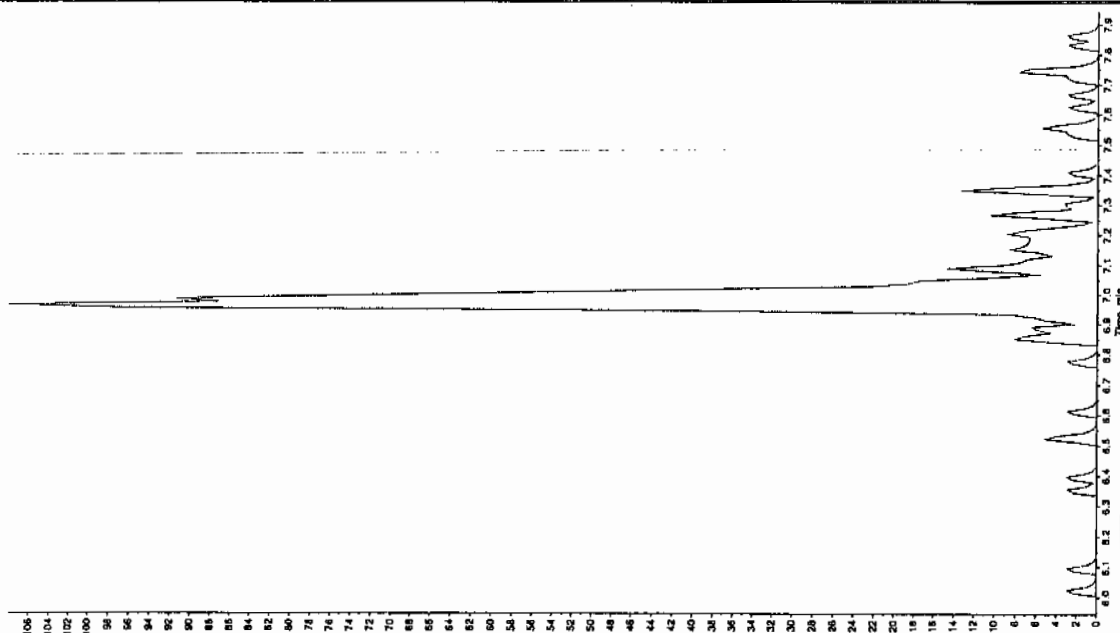
Sample Name: "XIBUX01" Sample ID: "1111ER" File: "EX503010002.wif"

Peak Name: "33-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LOMSEXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:19:07 AM  
 Modified: No



for 03/04/10

Sample Name: "XIBUX01" Sample ID: "1111ER" File: "EX503010002.wif"

Peak Name: "33-Dinitroaniline" Mass(es): "257.2204.9 amu"

Comment: "LOMSEXP\_B" Annotation: ""

Sample Index: 1

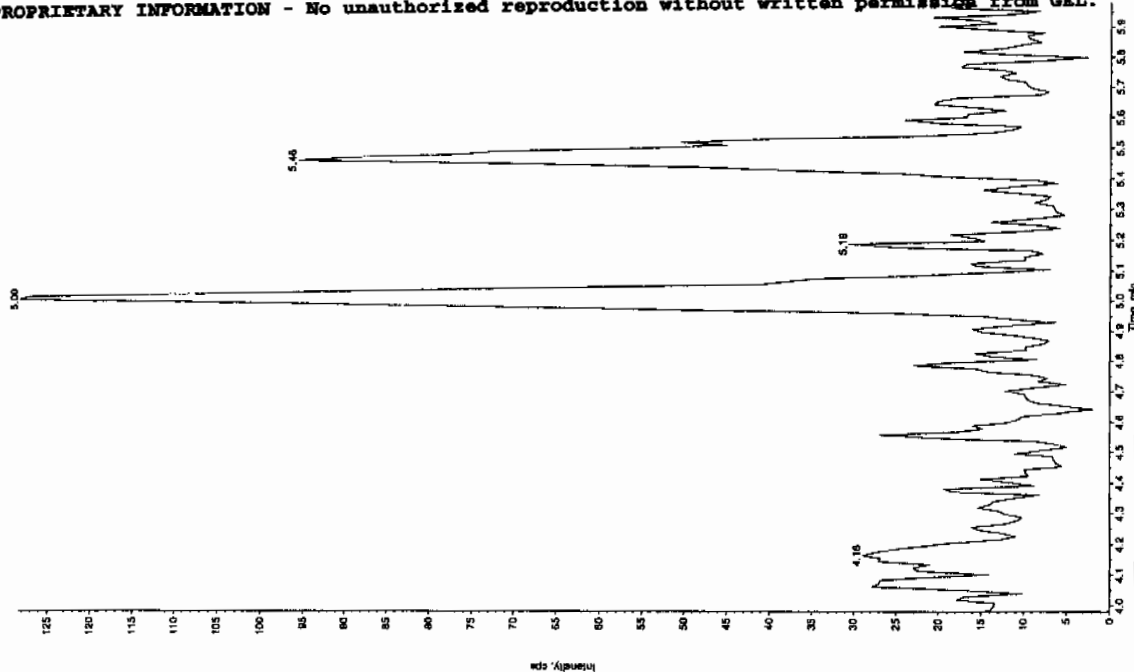
Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:19:07 AM  
 Modified: No



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

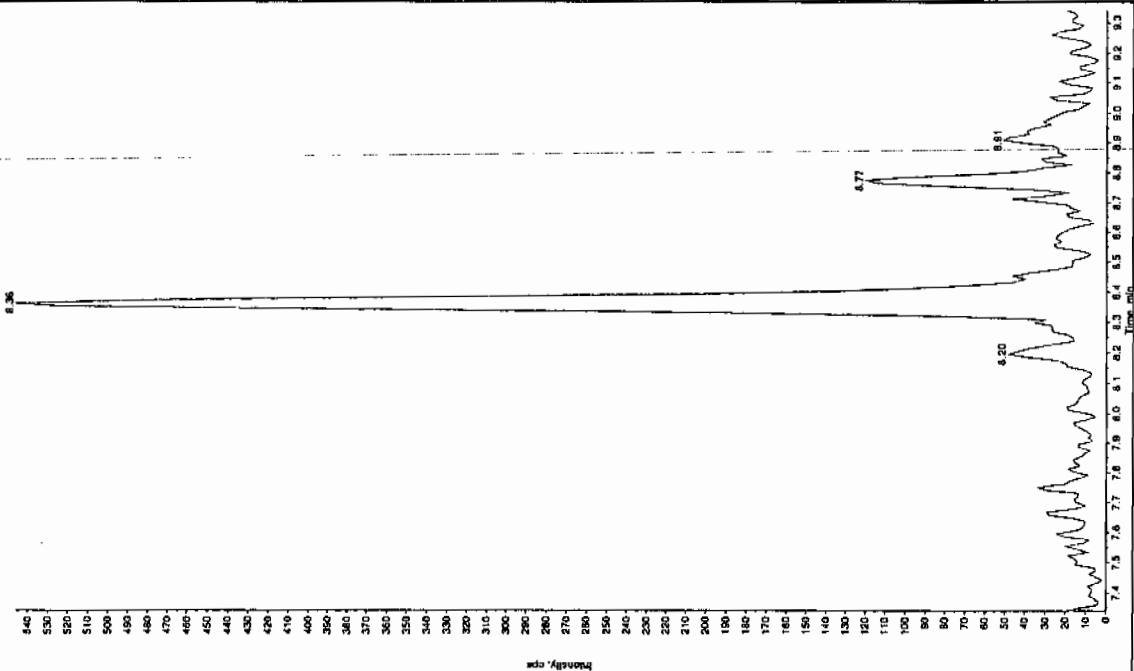
Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03010002.wif"  
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0465.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:19:07 AM  
 Modified: No



Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03010002.wif"  
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

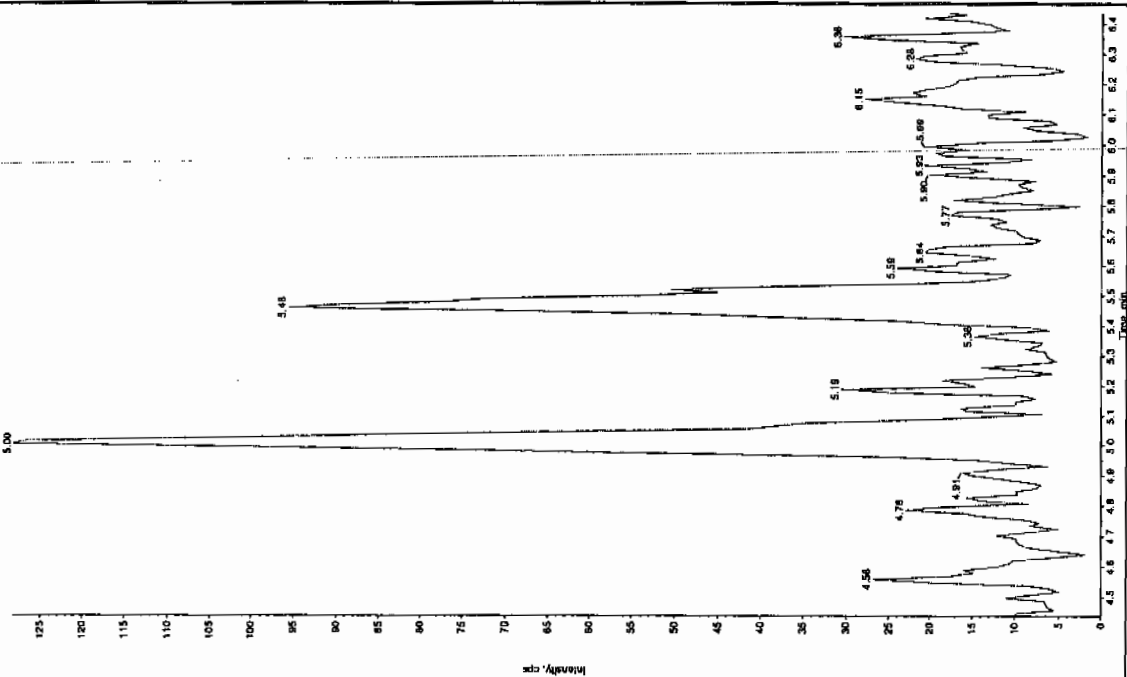
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:19:07 AM  
 Modified: No



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

Sample Name: "XIBLK01" Sample ID: "JILLER" File: "EXS03010002.wit"  
 Peak Name: "24-Diethyl-5-nitrofluorene" Mass(es): "166.045.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

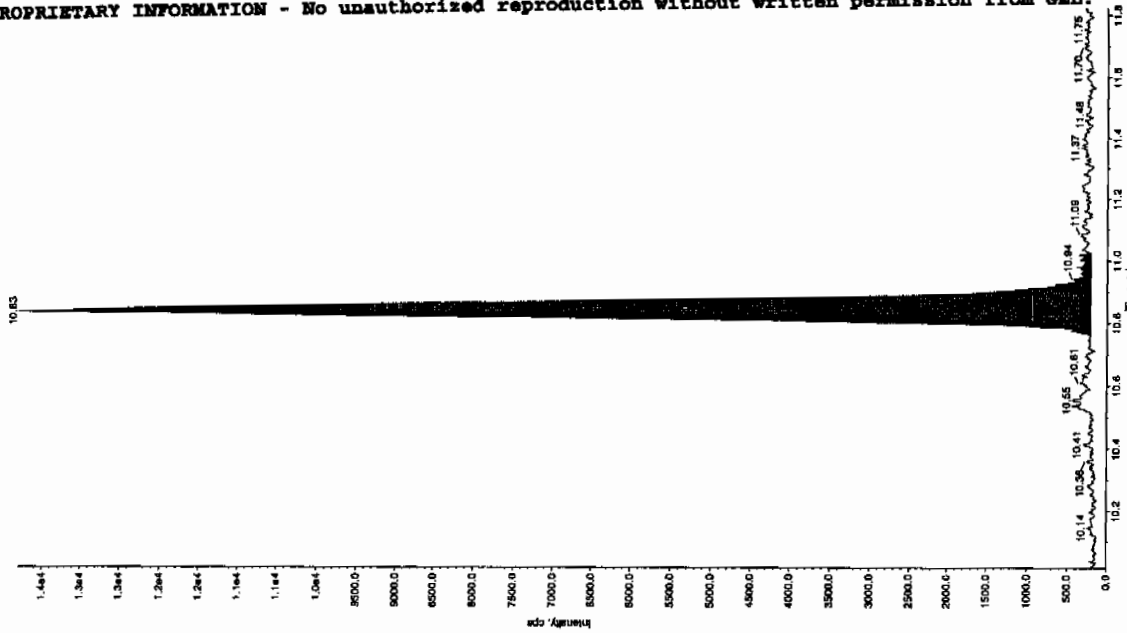
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:19:07 AM  
 Modified: No



Sample Name: "XIBLK01" Sample ID: "JILLER" File: "EXS03010002.wit"  
 Peak Name: "tri-(o-cresyl) phosphate" Mass(es): "386.191.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Acq. Date: 3/1/2010  
 Acq. Time: 9:19:07 AM  
 Modified: No

Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 30.0 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 4.80e+004 counts  
 Height: 13586.056 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): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 12-MAR-10 11:29

GEL Data File: EXP0312009.wiff

Instrument ID: LCMSMS

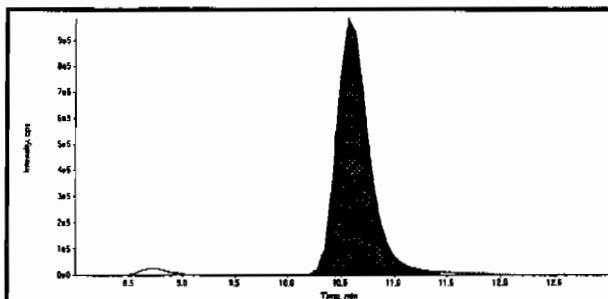
Column: Phenomenex Ultracarb 5u ODS(20)

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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

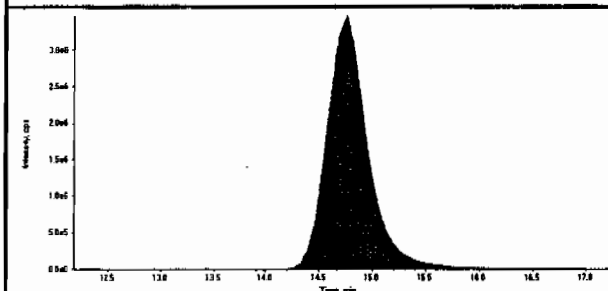
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



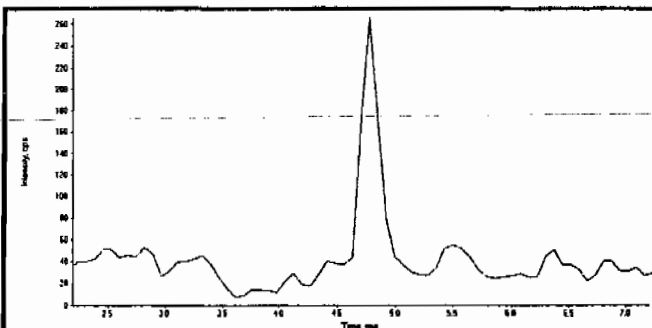
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

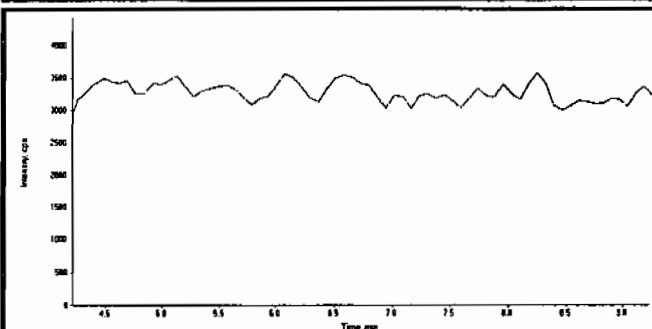


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	92100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*Handwritten:*  
3/24/10  
3/24/10

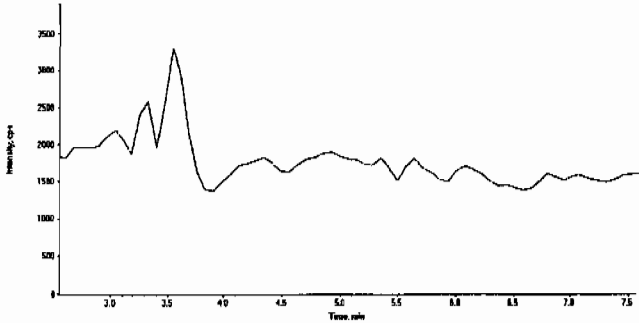


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

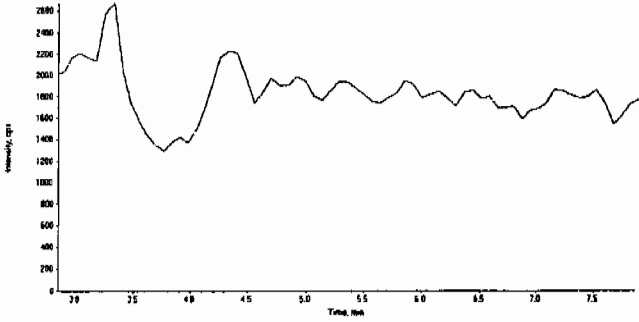
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312009.wiff	<b>Acquisition Date</b>	3/12/2010 11:29:54 AM
<b>Sample Name</b>	XIBLK02	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

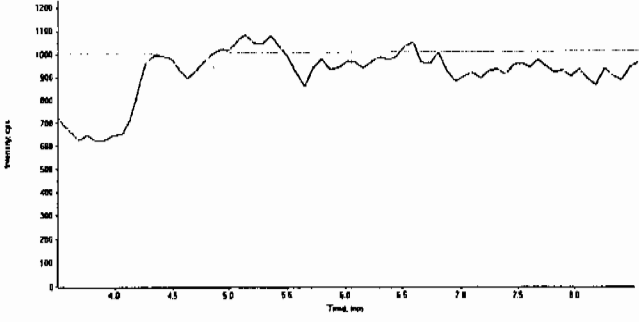
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

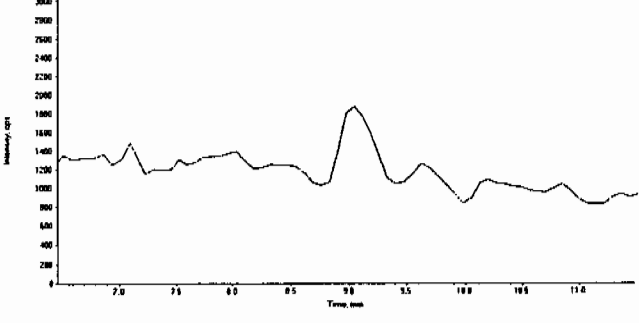
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312009.wiff	<b>Acquisition Date</b>	3/12/2010 11:29:54 AM
<b>Sample Name</b>	XIBLK02	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312009.wiff	<b>Acquisition Date</b>	3/12/2010 11:29:54 AM
<b>Sample Name</b>	XIBLK02	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

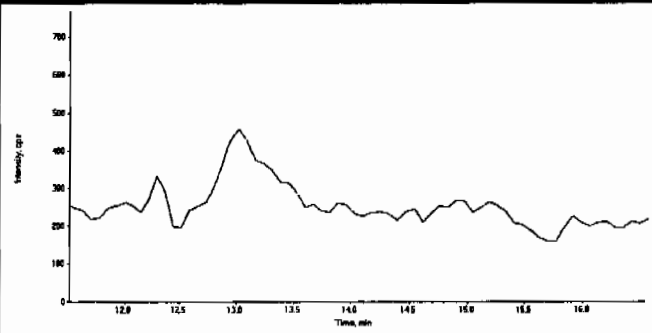
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

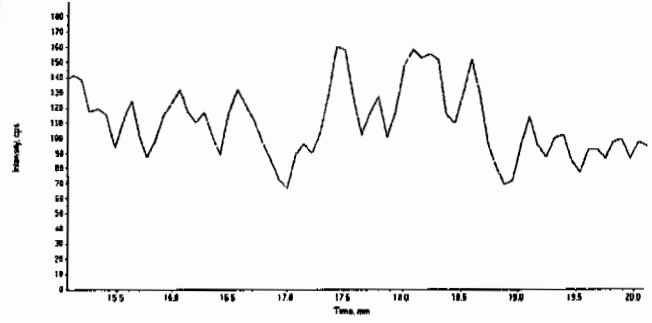
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312009.wiff	<b>Acquisition Date</b>	3/12/2010 11:29:54 AM
<b>Sample Name</b>	XIBLK02	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

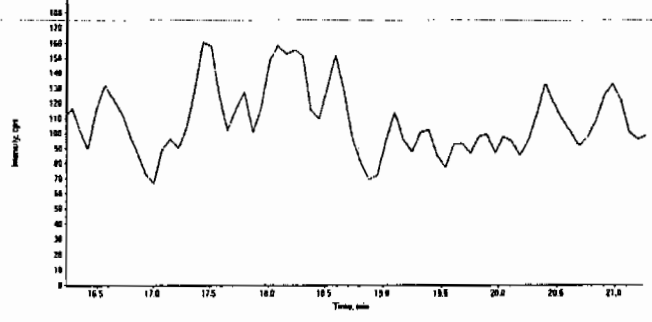
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

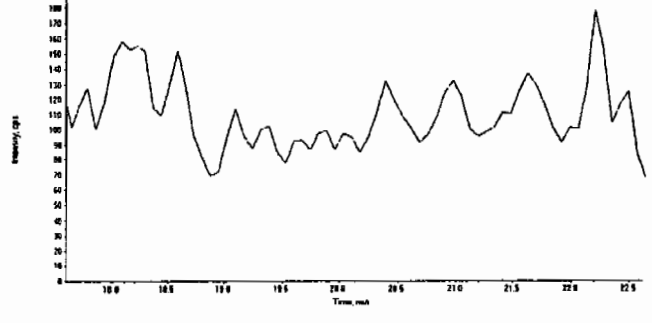
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

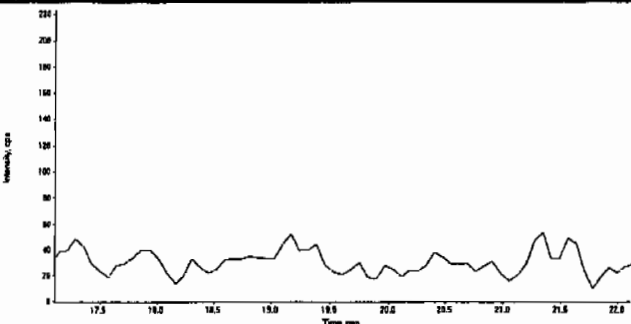
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312009.wiff	Acquisition Date	3/12/2010 11:29:54 AM
Sample Name	XIBLK02	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 12-MAR-10 12:22

GEL Data File: EXP0312011.wiff

Instrument ID: LCMSMS

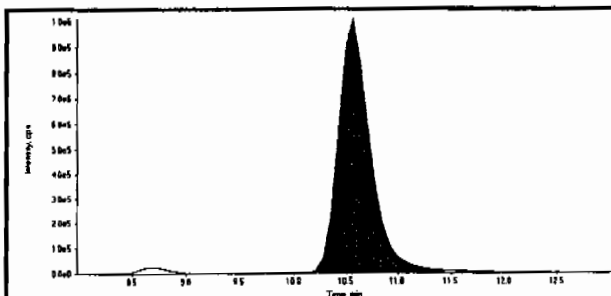
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

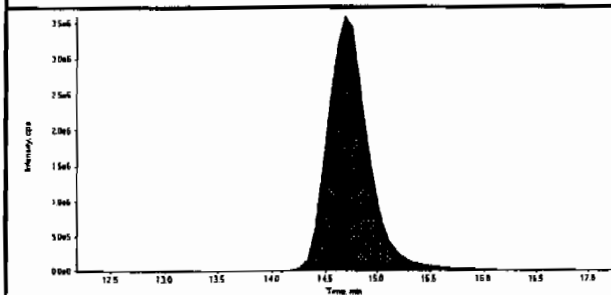
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

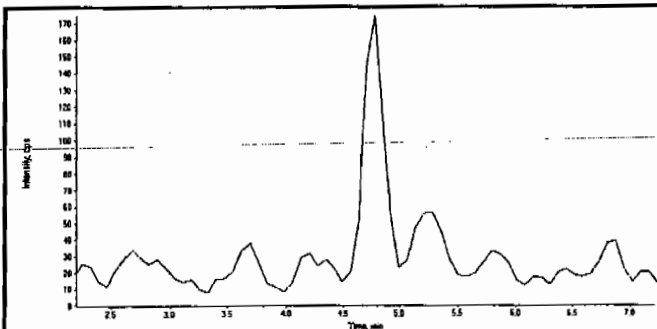
Data File	EXP0312011.wiff	Acquisition Date	3/12/2010 12:22:46 PM
Sample Name	XIBLK03	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



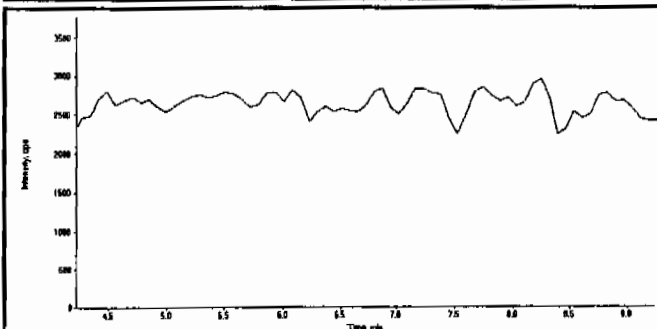
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	100000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

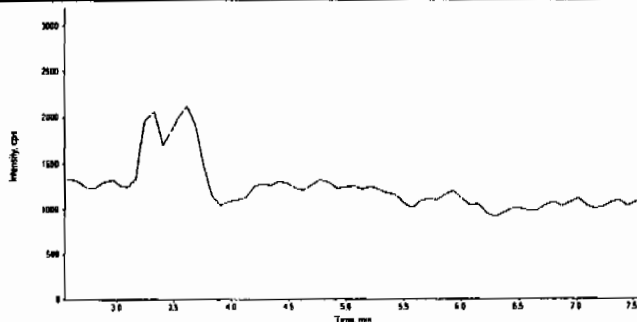
*Handwritten signature: J. Ler*  
03/12/10  
3/24/10

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

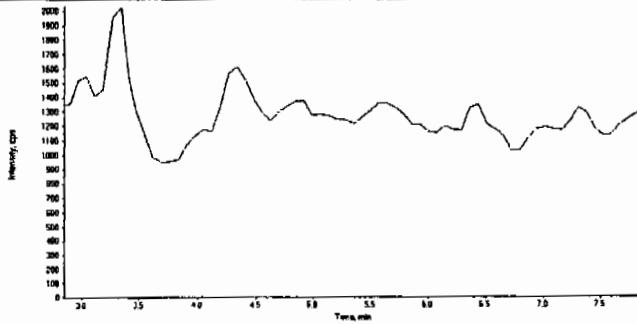
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312011.wiff	<b>Acquisition Date</b>	3/12/2010 12:22:46 PM
<b>Sample Name</b>	XIBLK03	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

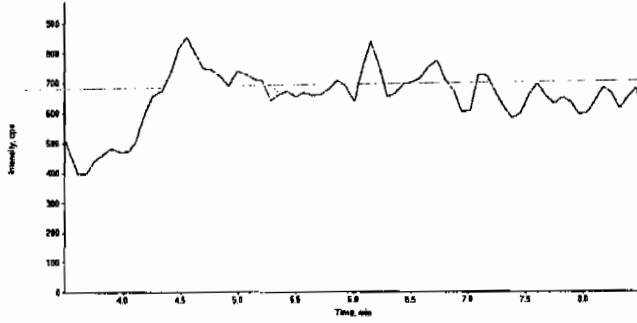
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

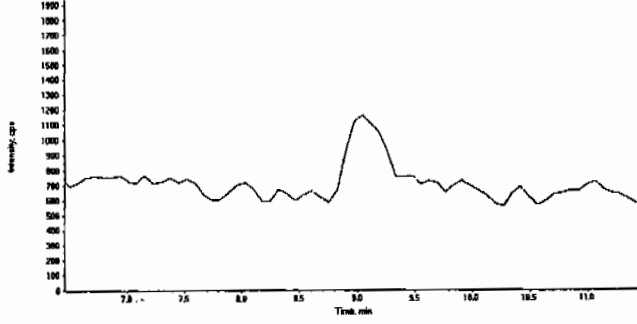
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312011.wiff	<b>Acquisition Date</b>	3/12/2010 12:22:46 PM
<b>Sample Name</b>	XIBLK03	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

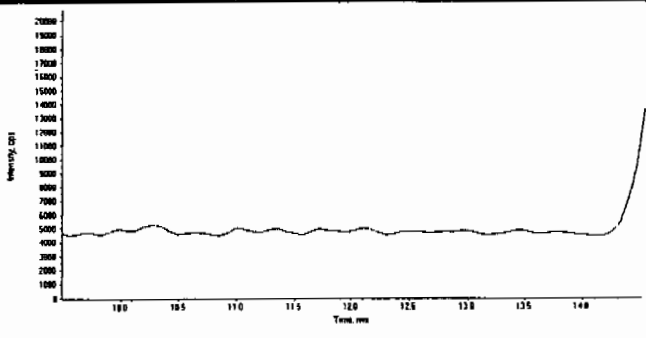
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

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

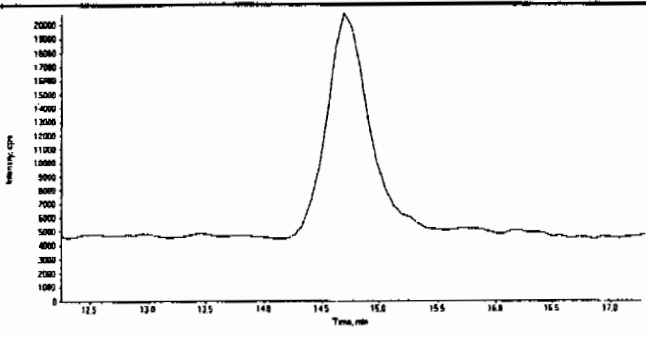
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LCMSMS#3

<b>Data File</b>	EXP0312011.wiff	<b>Acquisition Date</b>	3/12/2010 12:22:46 PM
<b>Sample Name</b>	XIBLK03	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

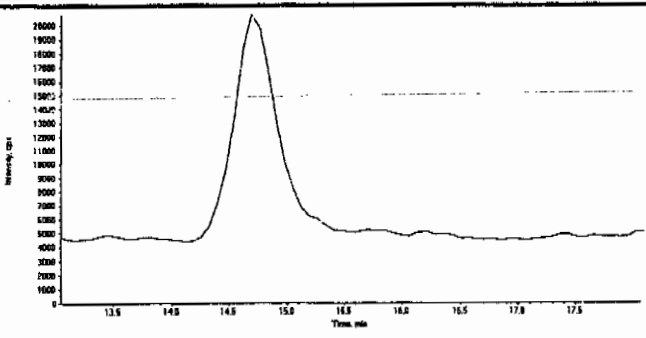
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

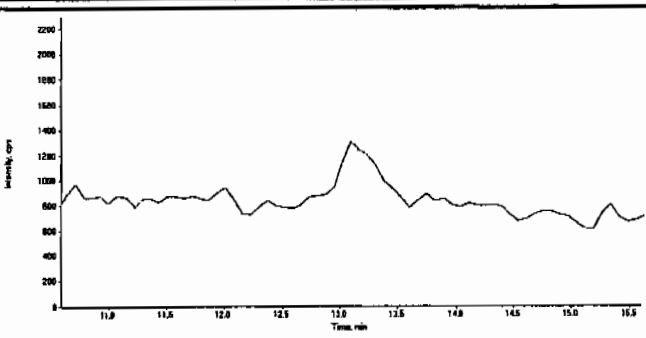
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312011.wiff	<b>Acquisition Date</b>	3/12/2010 12:22:46 PM
<b>Sample Name</b>	XIBLK03	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

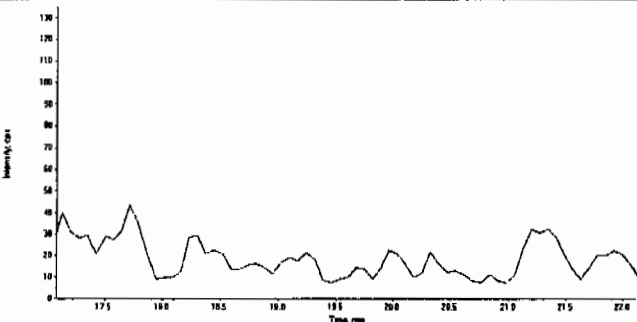
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312011.wiff	<b>Acquisition Date</b>	3/12/2010 12:22:46 PM
<b>Sample Name</b>	XIBLK03	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 12-MAR-10 13:41

GEL Data File: EXP0312014.wiff

Instrument ID: LCMSMS

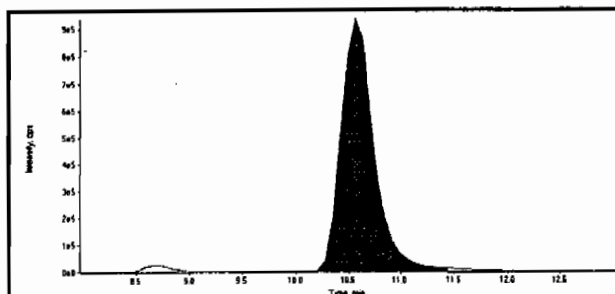
Column: Phenomenex Ultracarb 5u ODS(20)

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

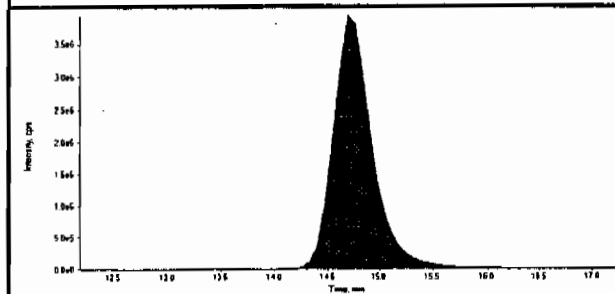
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

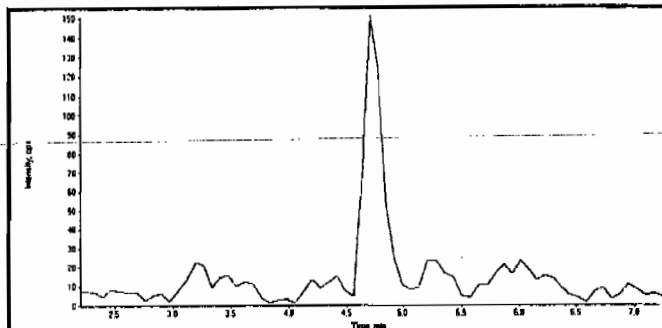
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Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



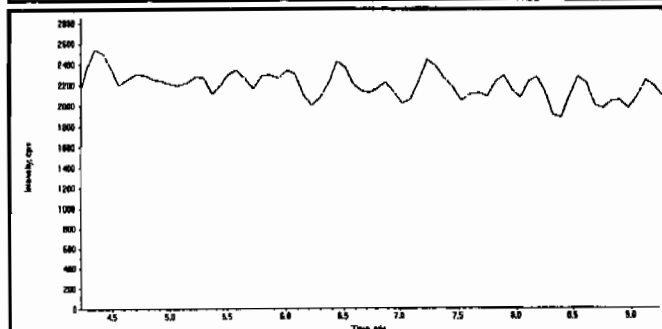
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	104000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDY (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

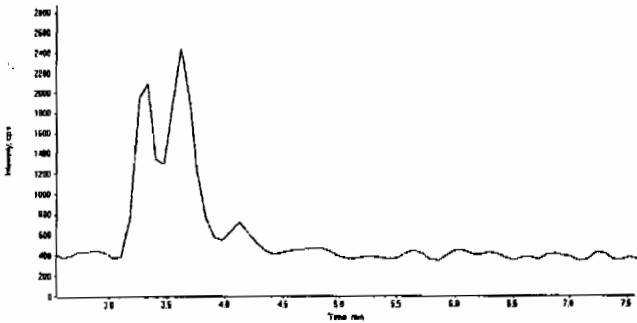
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HMX  
03/24/10  
LER  
3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

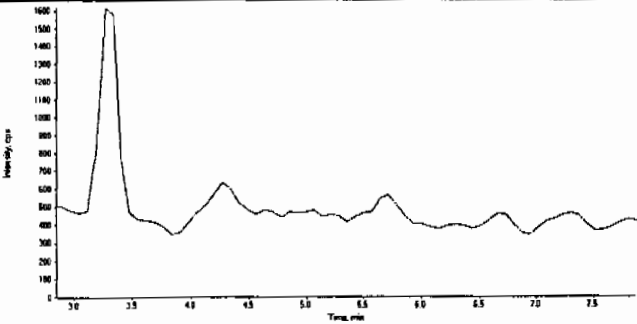
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LCMSMS#3

<b>Data File</b>	EXP0312014.wiff	<b>Acquisition Date</b>	3/12/2010 1:41:55 PM
<b>Sample Name</b>	XIBLK04	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

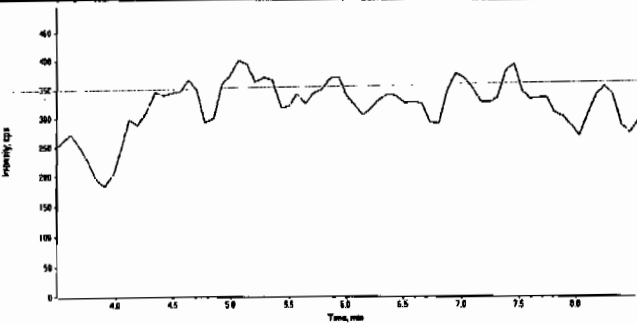
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

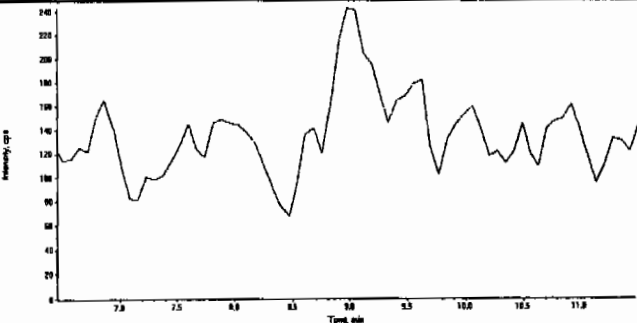
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312014.wiff	<b>Acquisition Date</b>	3/12/2010 1:41:55 PM
<b>Sample Name</b>	XIBLK04	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

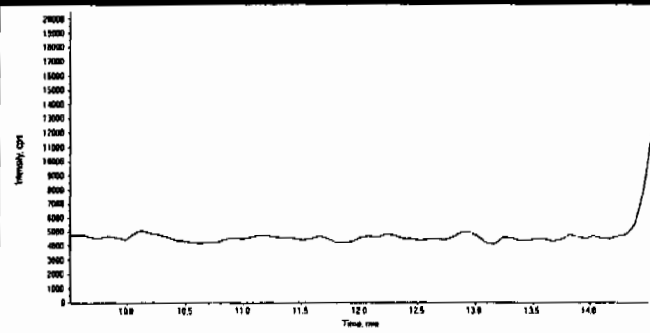


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GEL SOP GL-OA-E-056, Method 8321A-Modified

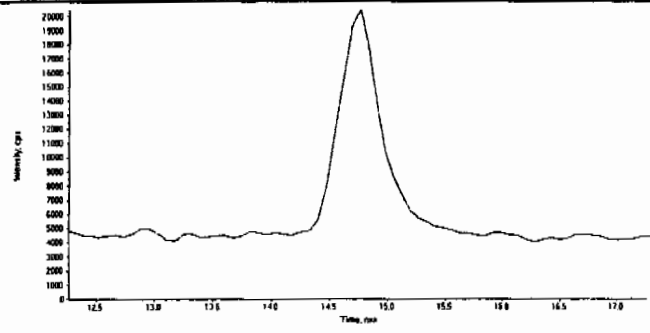
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LCMSMS#3

<b>Data File</b>	EXP0312014.wiff	<b>Acquisition Date</b>	3/12/2010 1:41:55 PM
<b>Sample Name</b>	XIBLK04	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

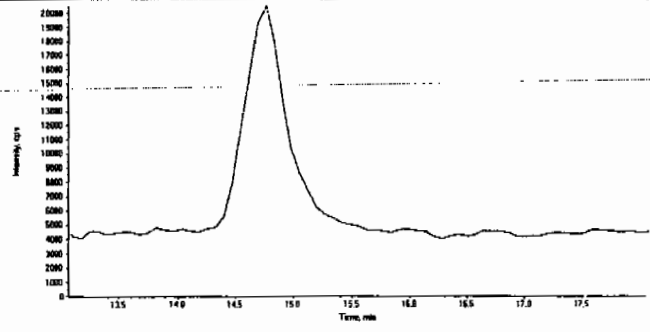
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

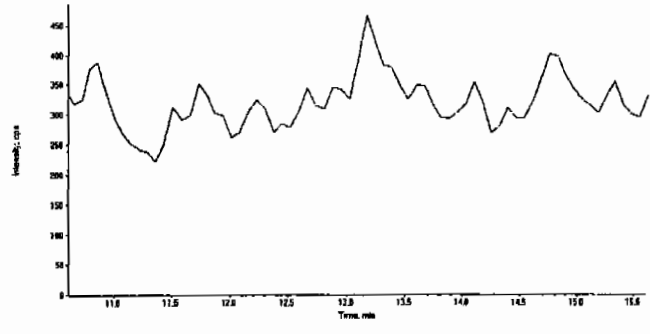
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

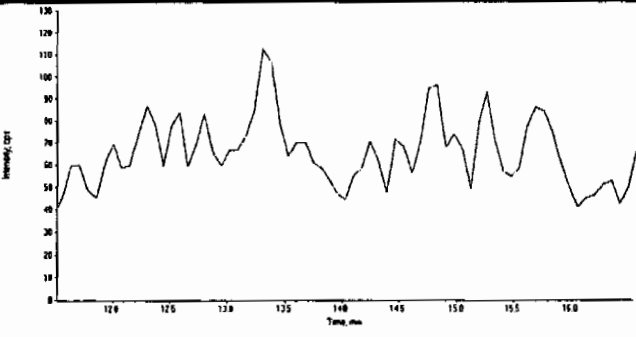
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

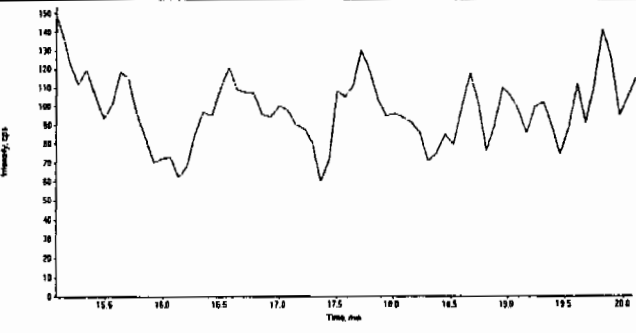
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LCMSMS#3

<b>Data File</b>	EXP0312014.wiff	<b>Acquisition Date</b>	3/12/2010 1:41:55 PM
<b>Sample Name</b>	XIBLK04	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

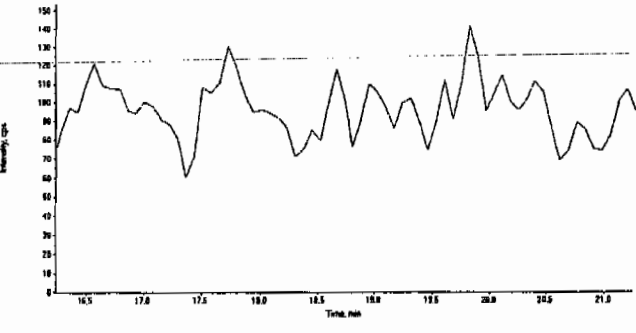
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

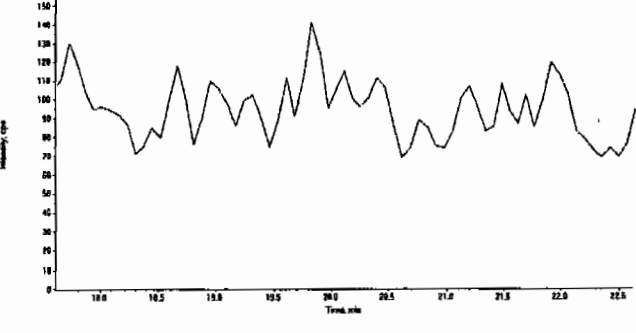
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

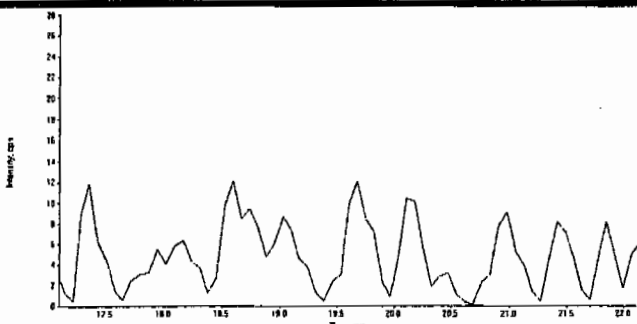
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312014.wiff	Acquisition Date	3/12/2010 1:41:55 PM
Sample Name	XIBLK04	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 12-MAR-10 14:34

GEL Data File: EXP0312016.wiff

Instrument ID: LCMSMS

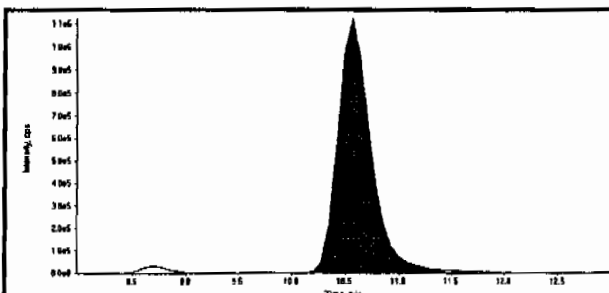
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

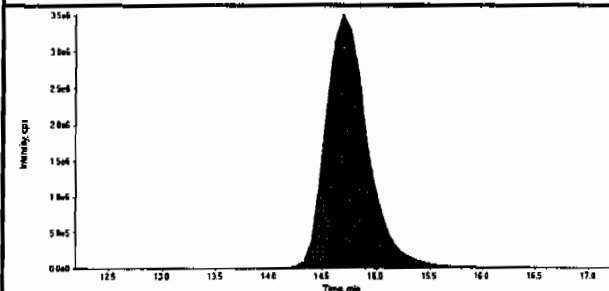
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

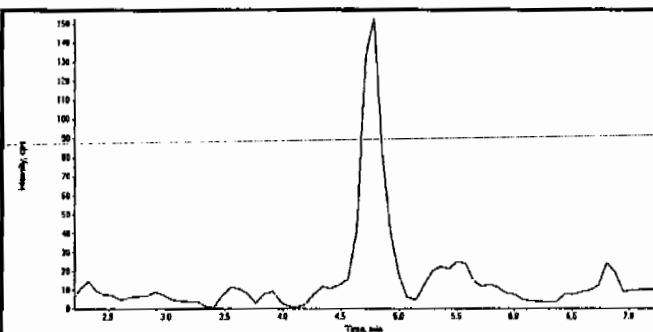
Data File	EXP0312016.wiff	Acquisition Date	3/12/2010 2:34:37 PM
Sample Name	XIBLK05	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



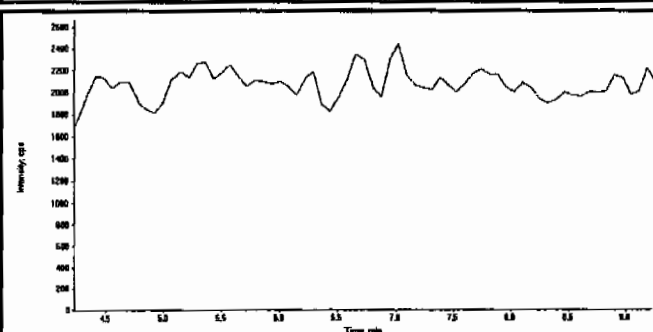
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	24300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	96900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

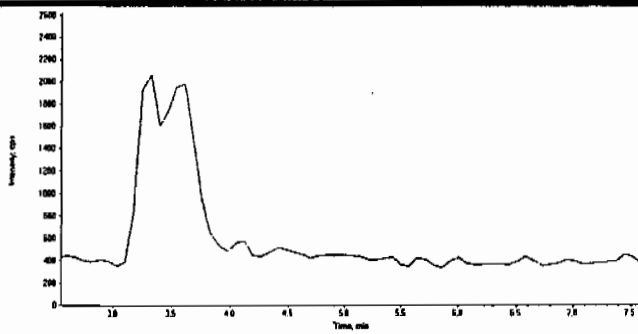
*Handwritten signature and date:*  
3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

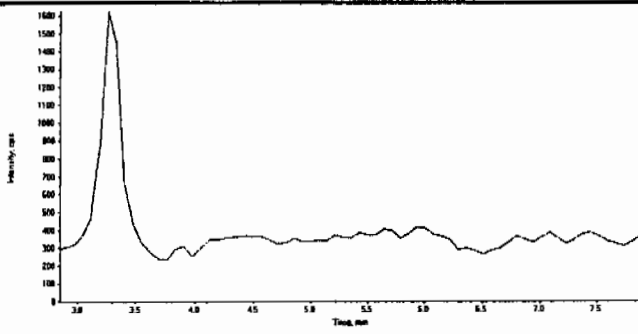
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LCMSMS#3

<b>Data File</b>	EXP0312016.wiff	<b>Acquisition Date</b>	3/12/2010 2:34:37 PM
<b>Sample Name</b>	XIBLK05	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

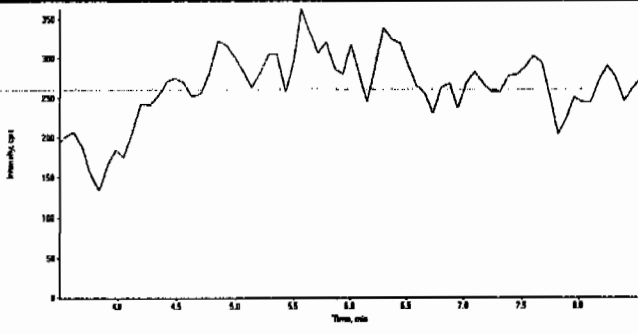
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

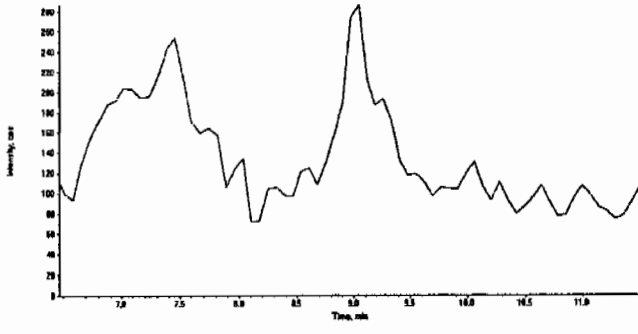
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

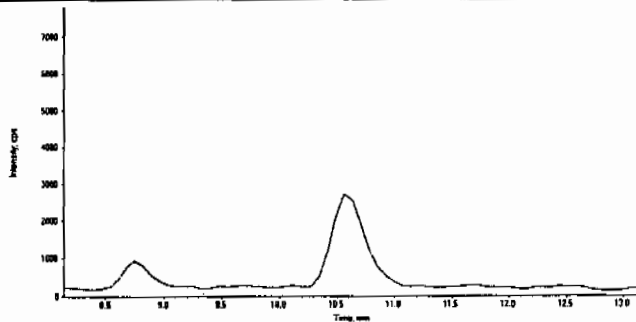
	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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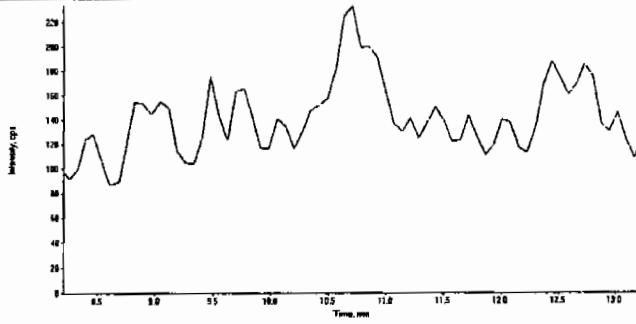
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312016.wiff	<b>Acquisition Date</b>	3/12/2010 2:34:37 PM
<b>Sample Name</b>	XIBLK05	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

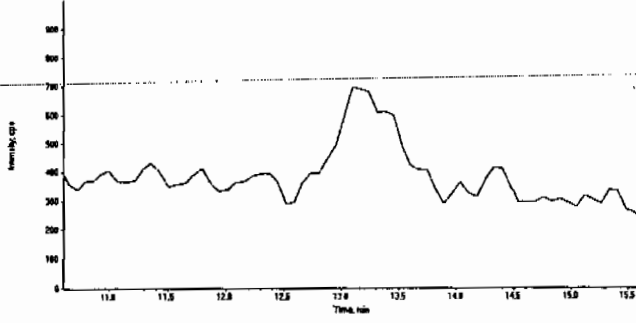
  

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

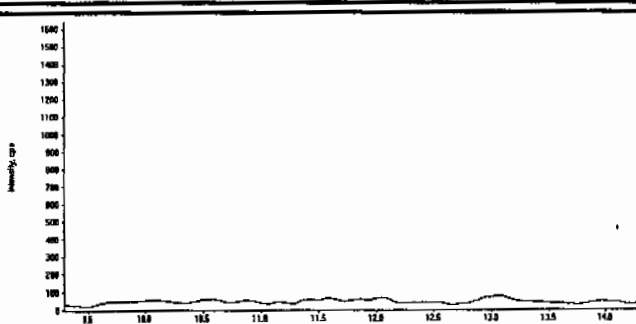
  

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

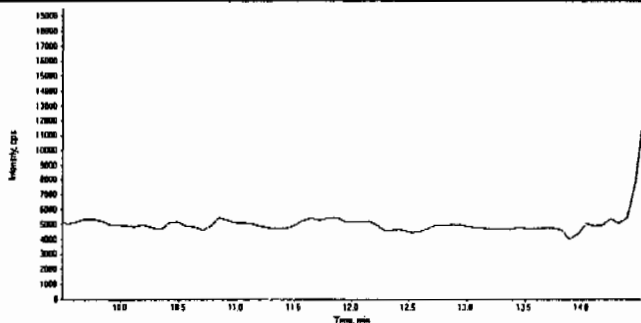
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

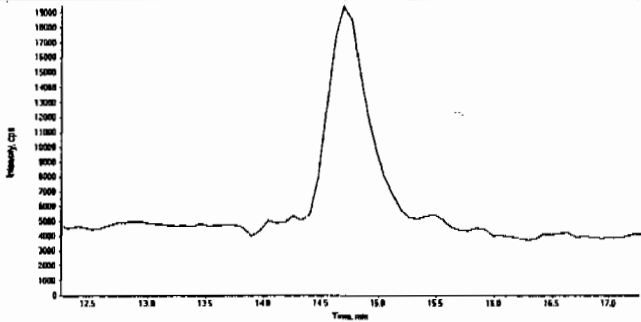
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LCMSMS#3

<b>Data File</b>	EXP0312016.wiff	<b>Acquisition Date</b>	3/12/2010 2:34:37 PM
<b>Sample Name</b>	XIBLK05	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

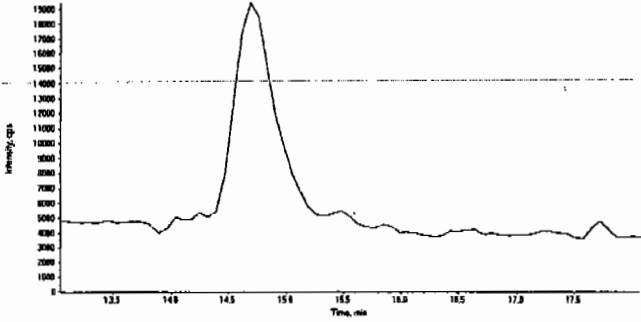
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

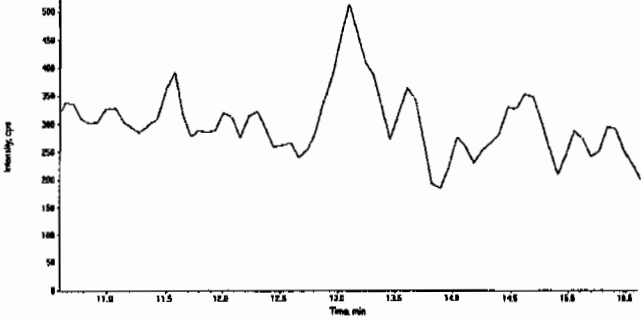
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312016.wiff	<b>Acquisition Date</b>	3/12/2010 2:34:37 PM
<b>Sample Name</b>	XIBLK05	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

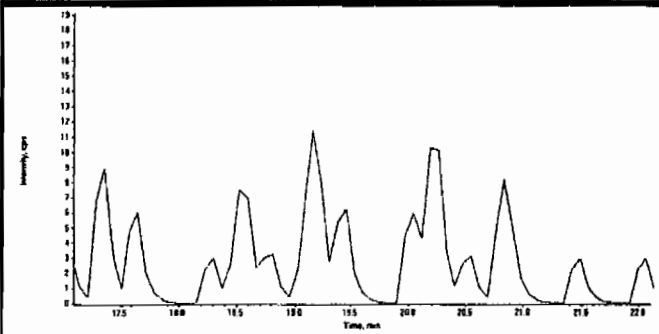
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312016.wiff	<b>Acquisition Date</b>	3/12/2010 2:34:37 PM
<b>Sample Name</b>	XIBLK05	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 12-MAR-10 15:53

GEL Data File: EXP0312019.wiff

Instrument ID: LCMSMS

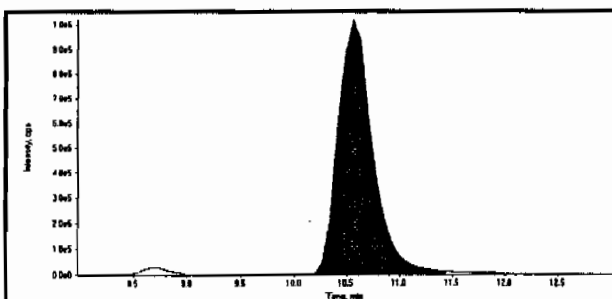
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

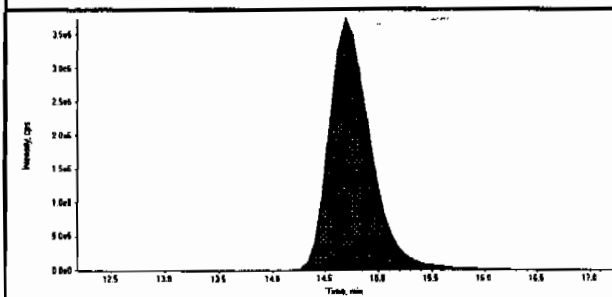
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

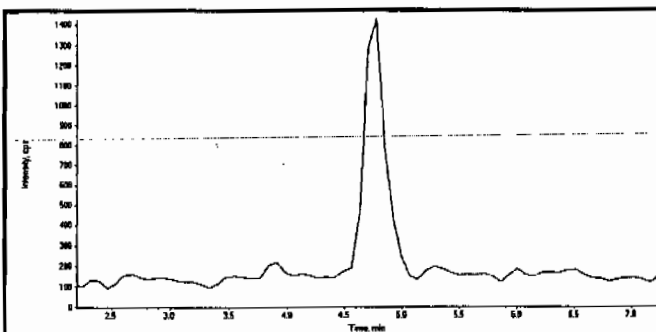
Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



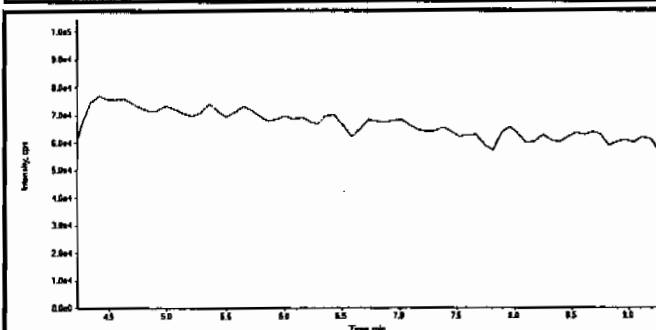
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	101000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*Handwritten:* HMX 03/24/10  
JL 3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312019.wiff	<b>Acquisition Date</b>	3/12/2010 3:53:49 PM
<b>Sample Name</b>	XIBLK06	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch/Dilution/Analyst</b>	1 1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312019.wiff	<b>Acquisition Date</b>	3/12/2010 3:53:49 PM
<b>Sample Name</b>	XIBLK06	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312019.wiff	<b>Acquisition Date</b>	3/12/2010 3:53:49 PM
<b>Sample Name</b>	XIBLK06	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312019.wiff	<b>Acquisition Date</b>	3/12/2010 3:53:49 PM
<b>Sample Name</b>	XIBLK06	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

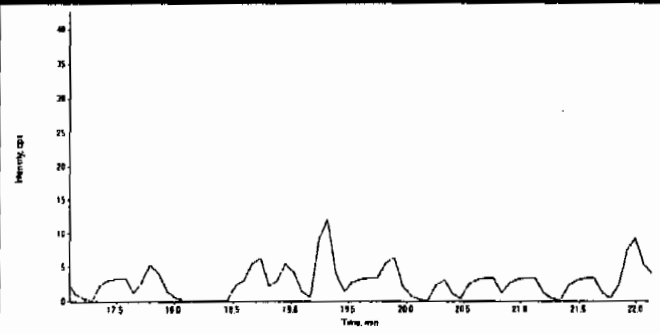
  

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312019.wiff	Acquisition Date	3/12/2010 3:53:49 PM
Sample Name	XIBLK06	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 12-MAR-10 17:39

GEL Data File: EXP0312023.wiff

Instrument ID: LCMSMS

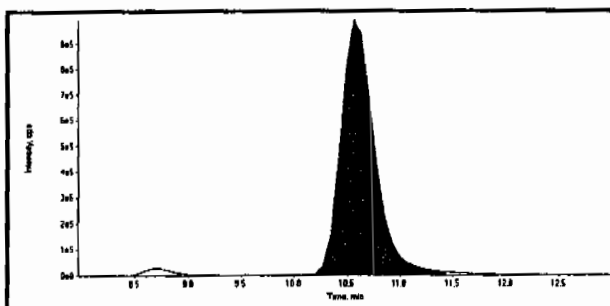
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MXN	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

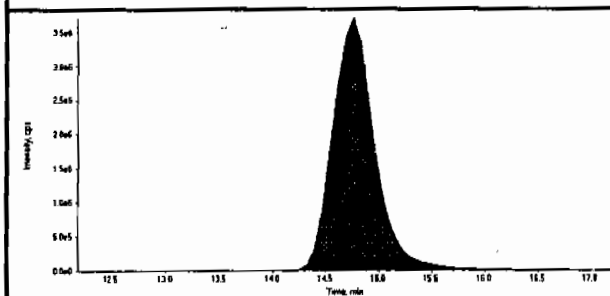
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312023.wiff	Acquisition Date	3/12/2010 5:39:30 PM
Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



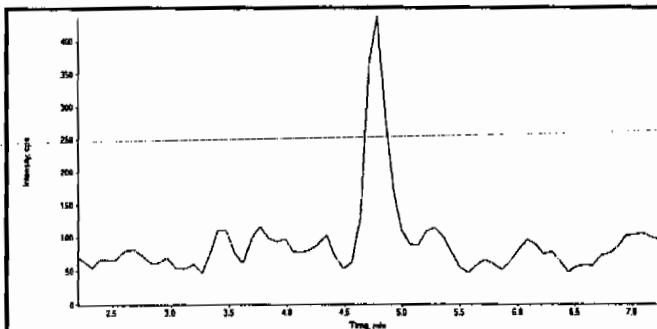
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

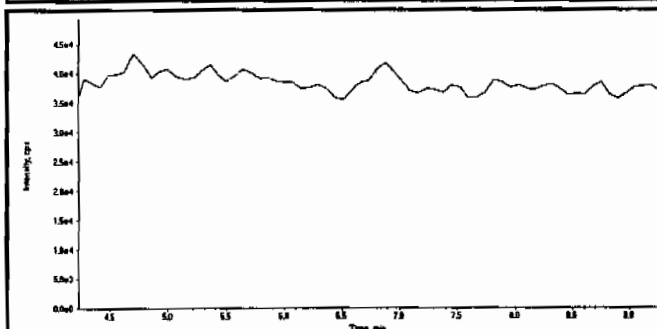


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	102000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*done 02/24/10*  
*Jan 3/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312023.wiff	<b>Acquisition Date</b>	3/12/2010 5:39:30 PM
<b>Sample Name</b>	XIBLK07	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312023.wiff	<b>Acquisition Date</b>	3/12/2010 5:39:30 PM
<b>Sample Name</b>	XIBLK07	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

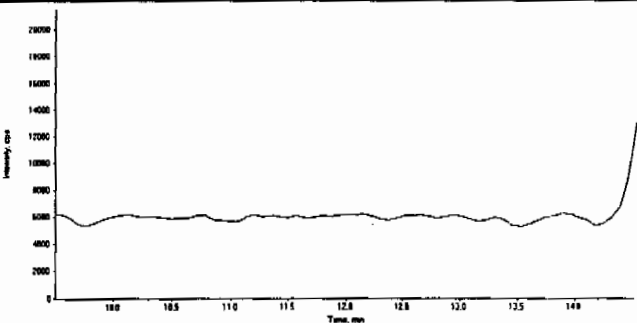
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

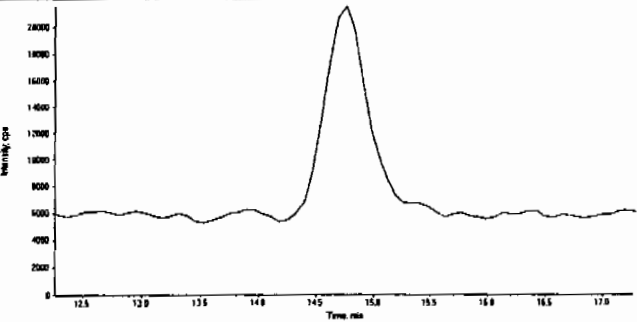
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LCMSMS#3

<b>Data File</b>	EXP0312023.wiff	<b>Acquisition Date</b>	3/12/2010 5:39:30 PM
<b>Sample Name</b>	XIBLK07	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

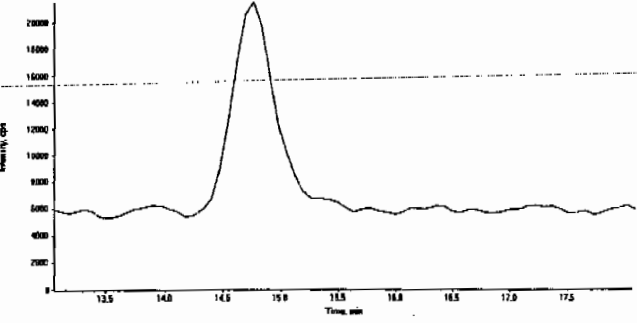
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

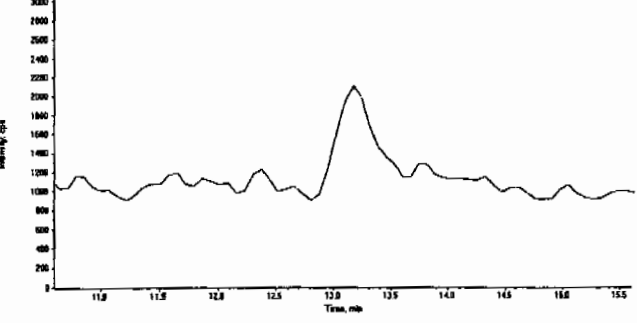
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

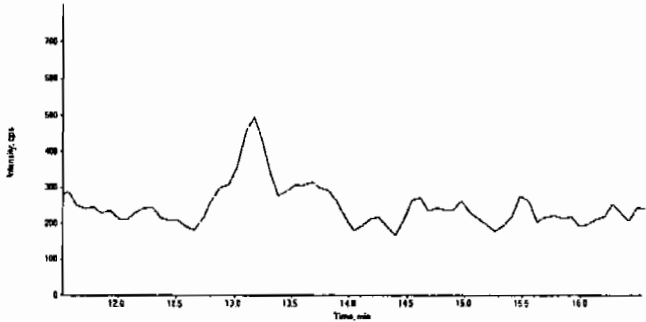
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

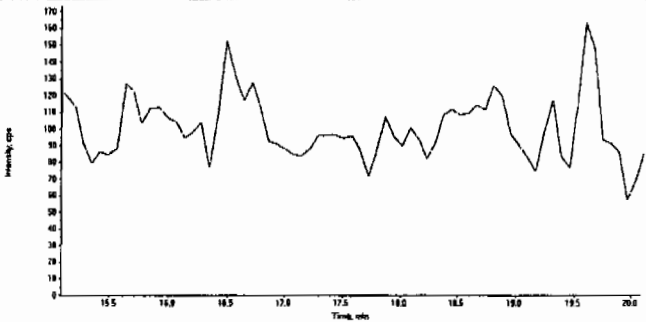
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LCMSMS#3

<b>Data File</b>	EXP0312023.wiff	<b>Acquisition Date</b>	3/12/2010 5:39:30 PM
<b>Sample Name</b>	XIBLK07	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

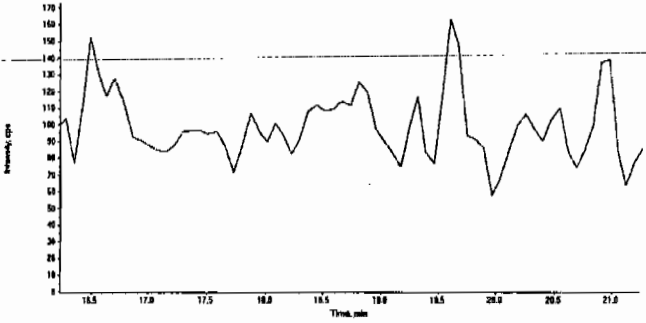
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

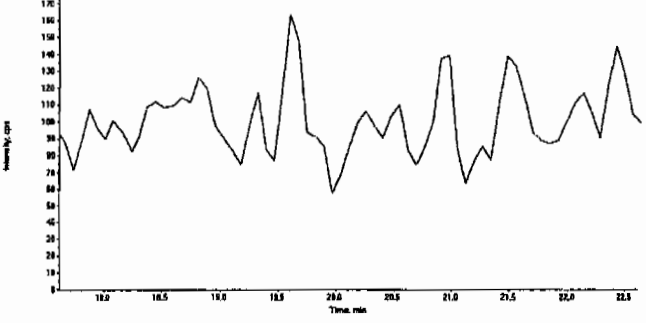
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

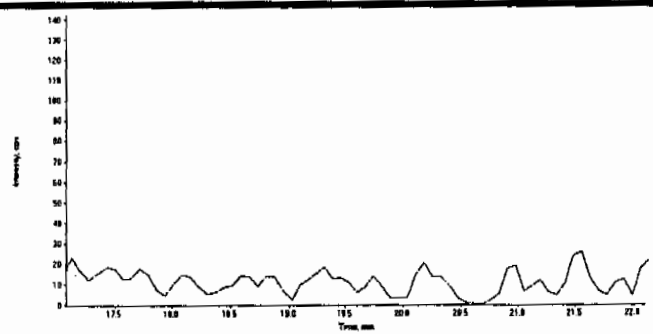
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312023.wiff	Acquisition Date	3/12/2010 5:39:30 PM
Sample Name	XIBLK07	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 12-MAR-10 23:22

GEL Data File: EXP0312036.wiff

Instrument ID: LCMSMS

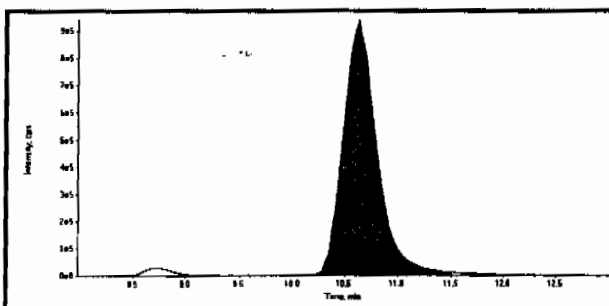
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

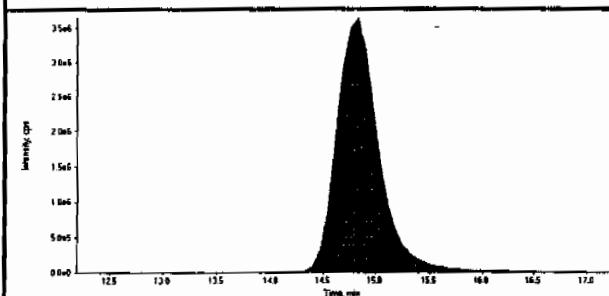
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LCMSMS#3

Data File	EXP0312036.wiff	Acquisition Date	3/12/2010 11:22:47 PM
Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



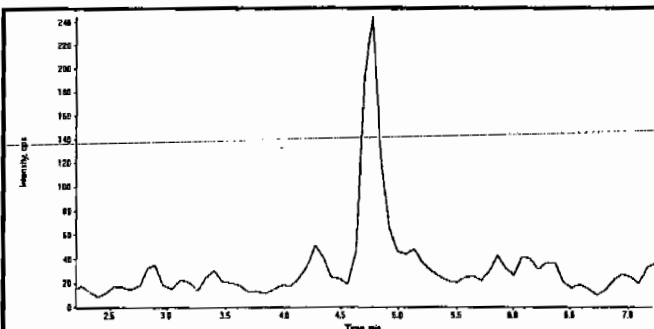
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

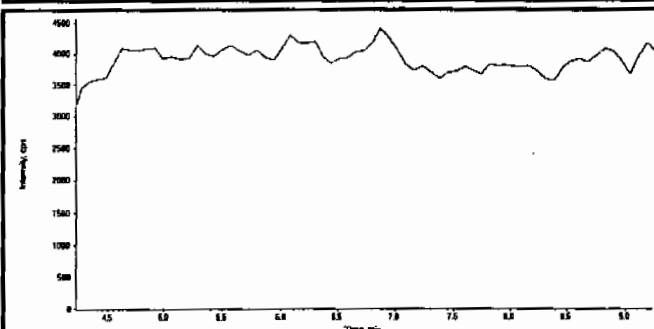


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	101000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

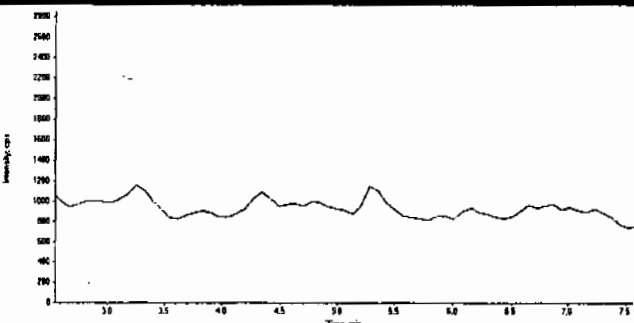
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Done 03/24/10  
Lar 3/24/10

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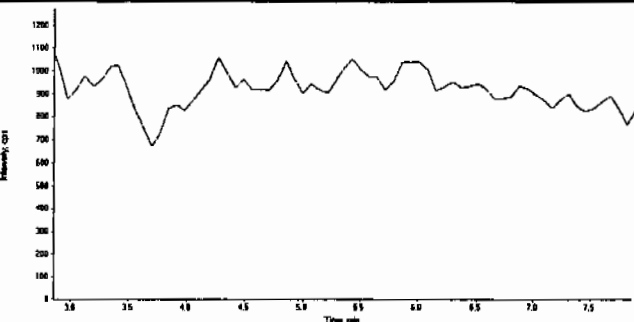
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312036.wiff	<b>Acquisition Date</b>	3/12/2010 11:22:47 PM
<b>Sample Name</b>	XIBLK08	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

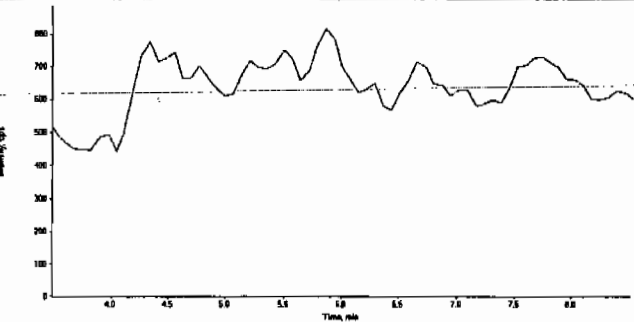
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

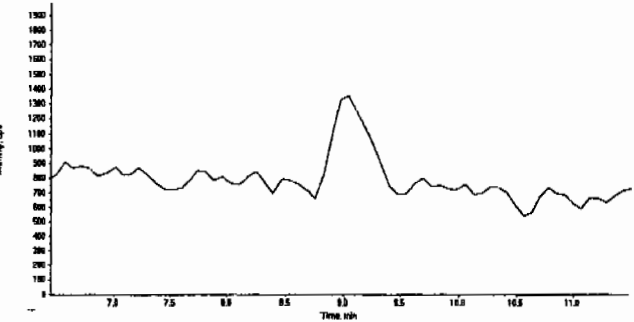
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

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LCMSMS#3

<b>Data File</b>	EXP0312036.wiff	<b>Acquisition Date</b>	3/12/2010 11:22:47 PM
<b>Sample Name</b>	XIBLK08	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

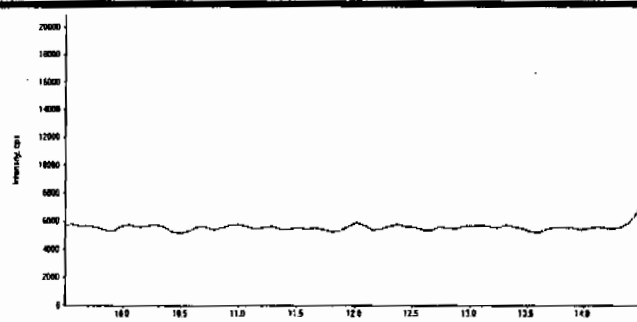
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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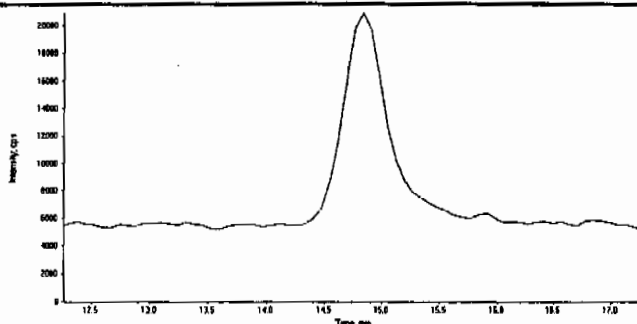
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LCMSMS#3

<b>Data File</b>	EXP0312036.wiff	<b>Acquisition Date</b>	3/12/2010 11:22:47 PM
<b>Sample Name</b>	XIBLK08	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

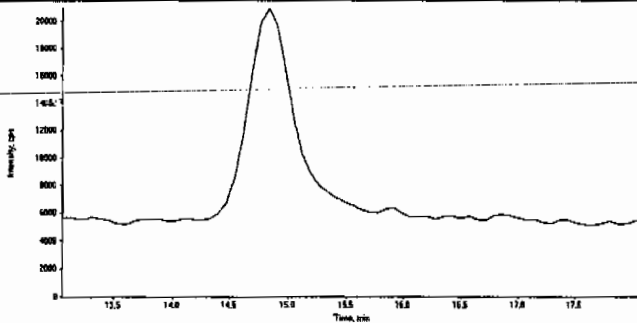
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

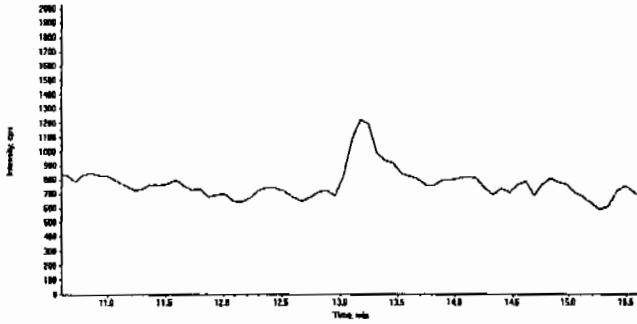
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312036.wiff	<b>Acquisition Date</b>	3/12/2010 11:22:47 PM
<b>Sample Name</b>	XIBLK08	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

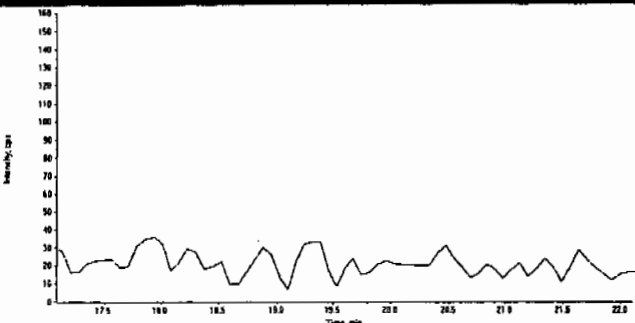
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312036.wiff	Acquisition Date	3/12/2010 11:22:47 PM
Sample Name	XIBLK08	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 13-MAR-10 05:06

GEL Data File: EXP0312049.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

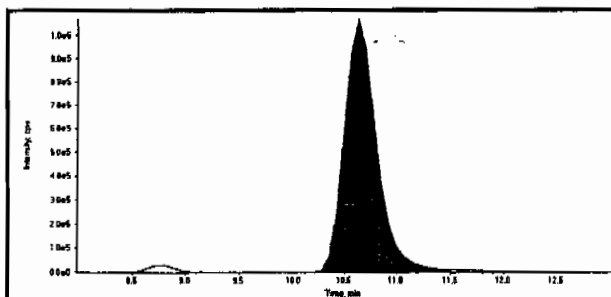
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o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0



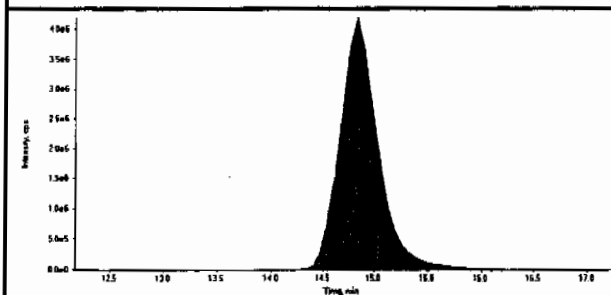
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

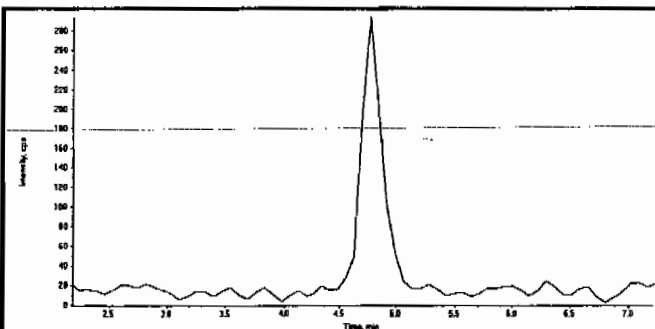
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Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



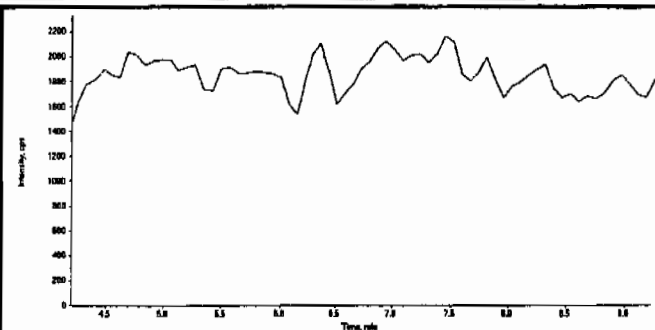
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	23400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	108000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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3/24/10

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312049.wiff	<b>Acquisition Date</b>	3/13/2010 5:06:02 AM
<b>Sample Name</b>	XIBLK09	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312049.wiff	<b>Acquisition Date</b>	3/13/2010 5:06:02 AM
<b>Sample Name</b>	XIBLK09	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

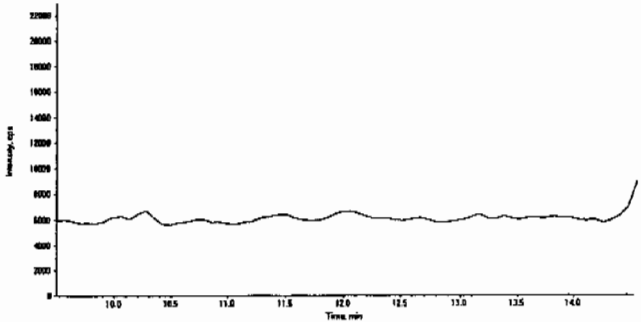
  

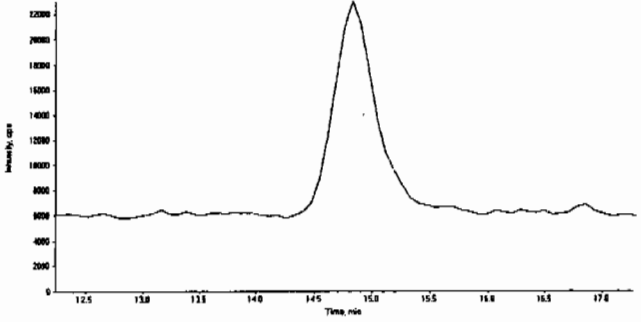
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

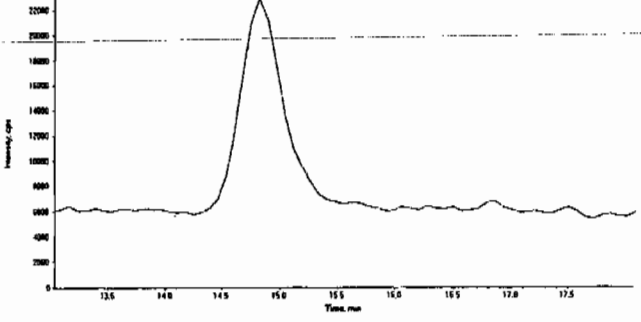
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

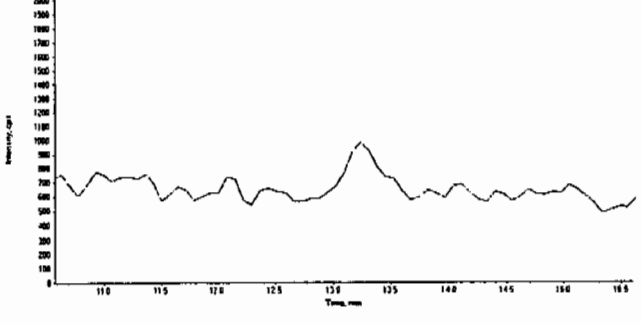
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LCMSMS#3

Data File	EXP0312049.wiff	Acquisition Date	3/13/2010 5:06:02 AM
Sample Name	XIBLK09	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312049.wiff	<b>Acquisition Date</b>	3/13/2010 5:06:02 AM
<b>Sample Name</b>	XIBLK09	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

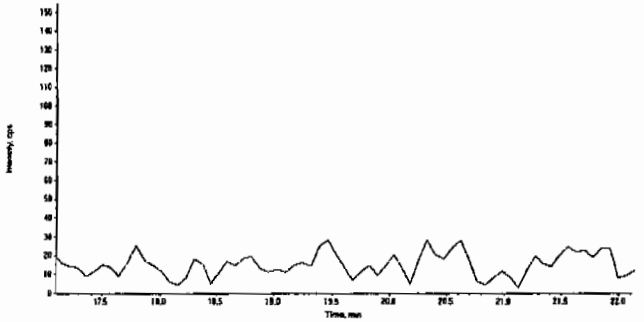
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312049.wiff	<b>Acquisition Date</b>	3/13/2010 5:06:02 AM
<b>Sample Name</b>	XIBLK09	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 13-MAR-10 07:44

GEL Data File: EXP0312055.wiff

Instrument ID: LCMSMS

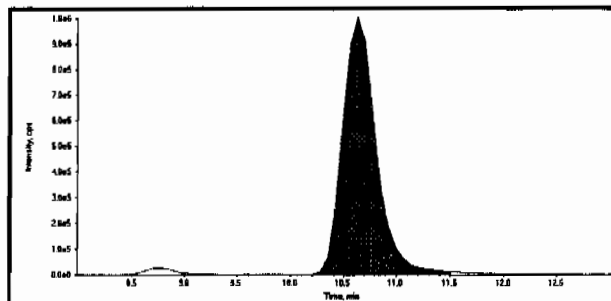
Column: Phenomenex Ultracarb 5u ODS(20)

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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

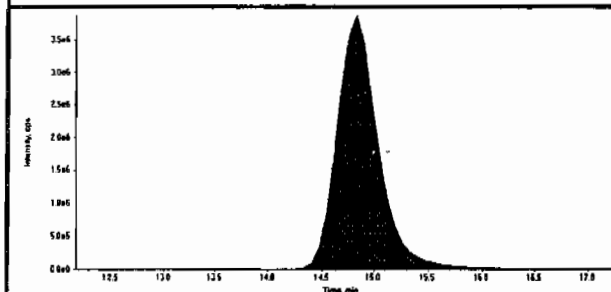
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312055.wiff	Acquisition Date	3/13/2010 7:44:16 AM
Sample Name	XIBLK10	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



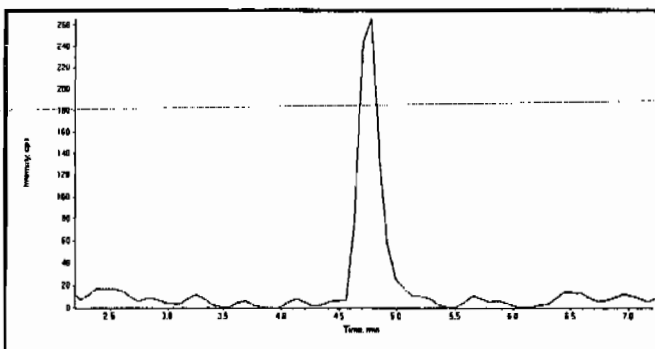
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22700000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

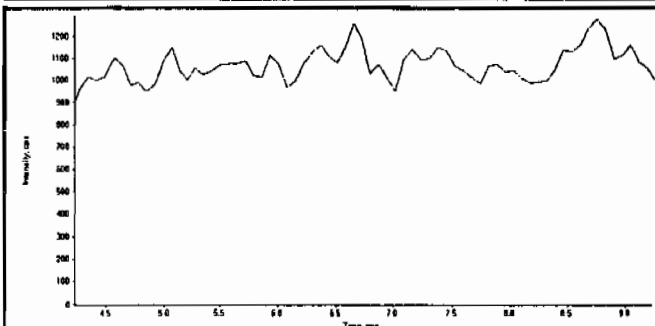


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	106000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

Time 03/24/10

Len 3/24/10



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312055.wiff	<b>Acquisition Date</b>	3/13/2010 7:44:16 AM
<b>Sample Name</b>	XIBLK10	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch/Dilution/Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312055.wiff	<b>Acquisition Date</b>	3/13/2010 7:44:16 AM
<b>Sample Name</b>	XIBLK10	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312055.wiff	<b>Acquisition Date</b>	3/13/2010 7:44:16 AM
<b>Sample Name</b>	XIBLK10	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

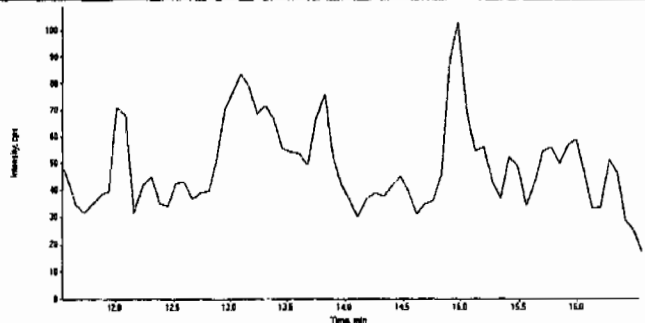
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321 A-Modified

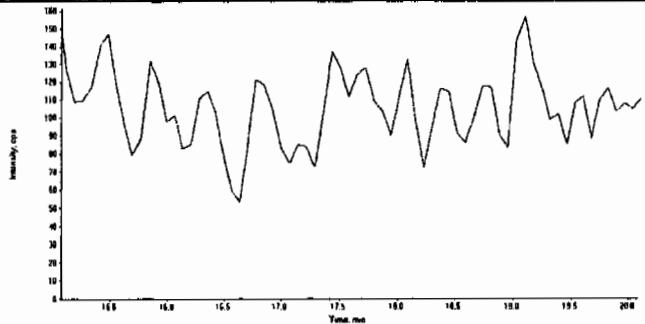
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312055.wiff	<b>Acquisition Date</b>	3/13/2010 7:44:16 AM
<b>Sample Name</b>	XIBLK10	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

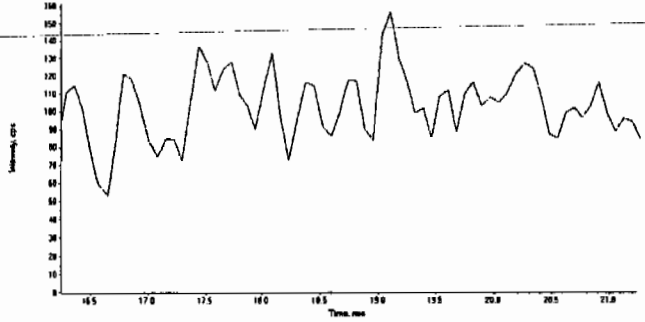
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

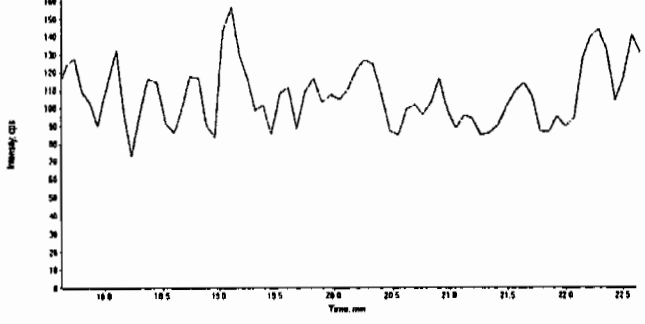
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

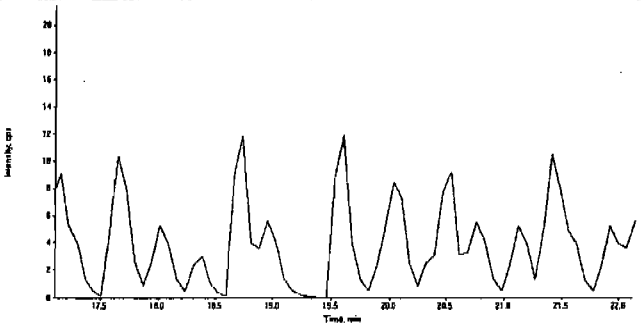
	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312055.wiff	<b>Acquisition Date</b>	3/13/2010 7:44:16 AM
<b>Sample Name</b>	XIBLK10	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	PETN (361.1/62.0 amu)
	<b>Expected RT:</b>	19.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 13-MAR-10 10:49

GEL Data File: EXP0312062.wiff

Instrument ID: LCMSMS

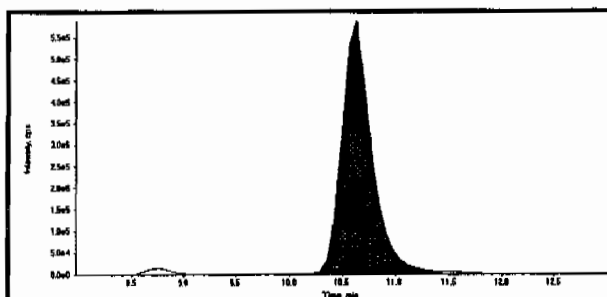
Column: Phenomenex Ultracarb 5u ODS(20)

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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

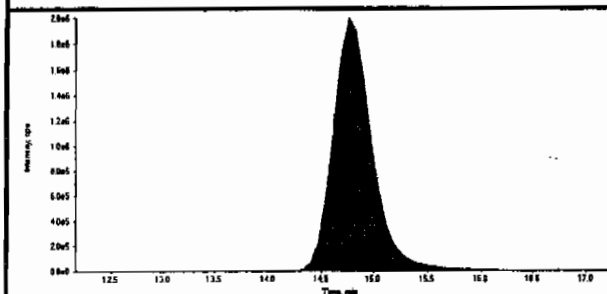
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



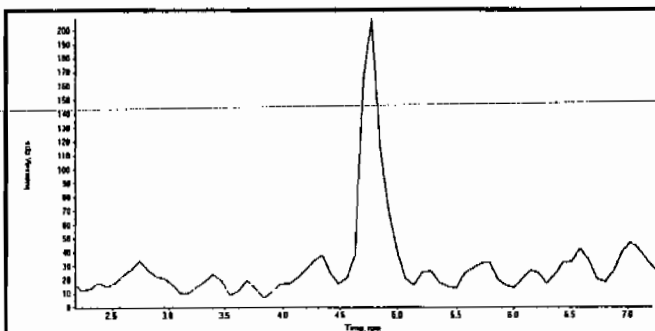
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	11800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

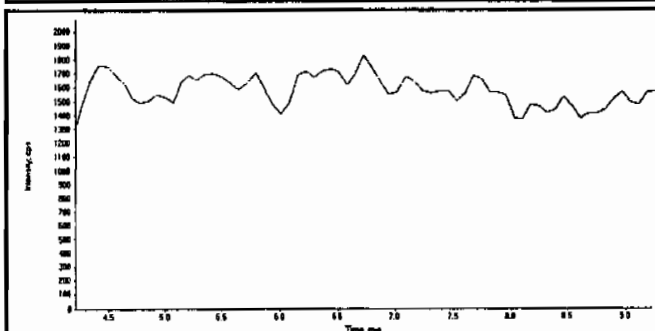


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	52500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

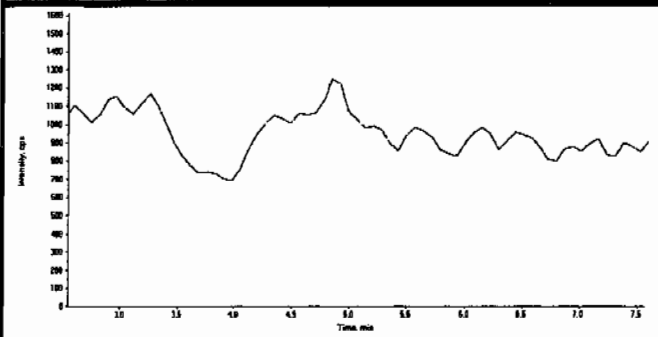
*OK 3/24/10* *Amc 03/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

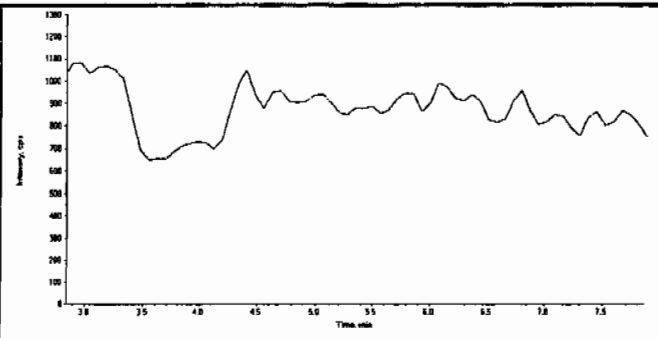
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312062.wiff	<b>Acquisition Date</b>	3/13/2010 10:49:23 AM
<b>Sample Name</b>	XIBLK11	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

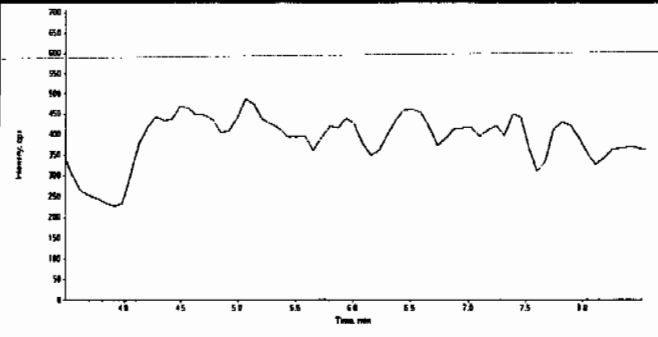
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

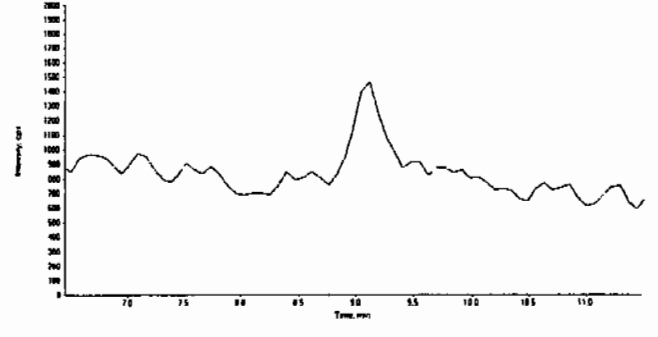
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312062.wiff	Acquisition Date	3/13/2010 10:49:23 AM
Sample Name	XIBLK11	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312062.wiff	<b>Acquisition Date</b>	3/13/2010 10:49:23 AM
<b>Sample Name</b>	XIBLK11	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

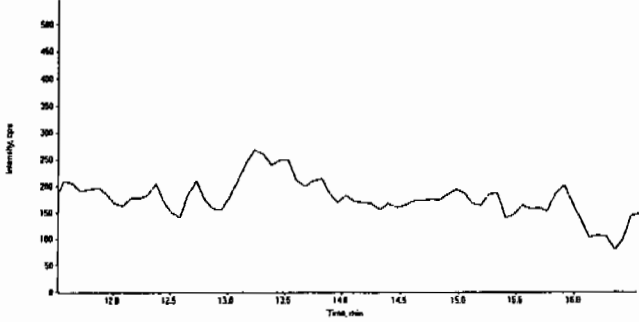
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

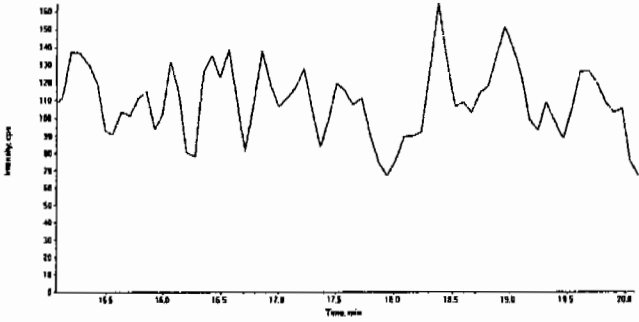
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312062.wiff	<b>Acquisition Date</b>	3/13/2010 10:49:23 AM
<b>Sample Name</b>	XIBLK11	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

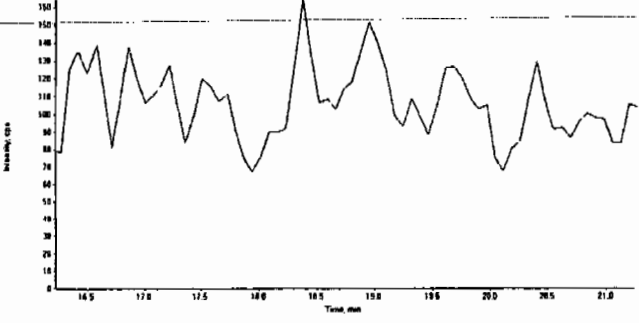
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A


  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

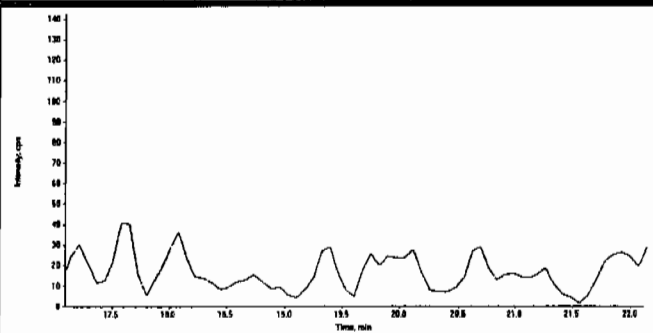
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312062.wiff	<b>Acquisition Date</b>	3/13/2010 10:49:23 AM
<b>Sample Name</b>	XIBLK11	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 13-MAR-10 16:32

GEL Data File: EXP0312075.wiff

Instrument ID: LCMSMS

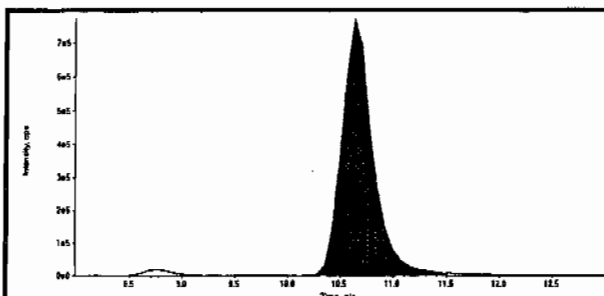
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

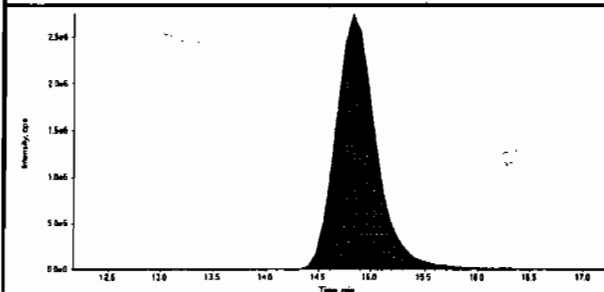
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

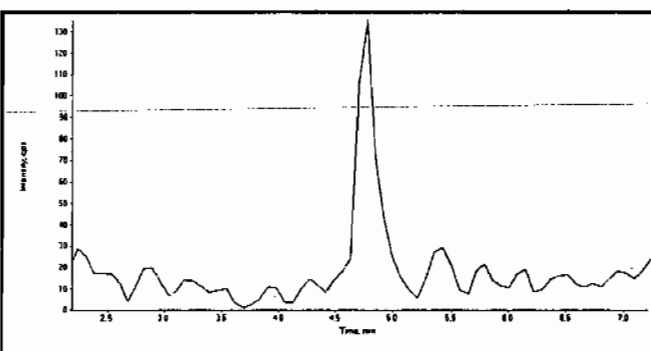
Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



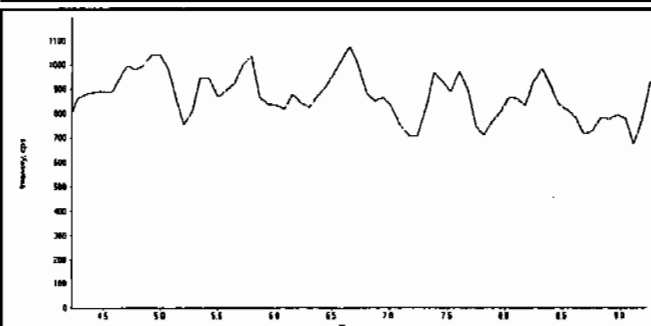
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	16100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	74800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

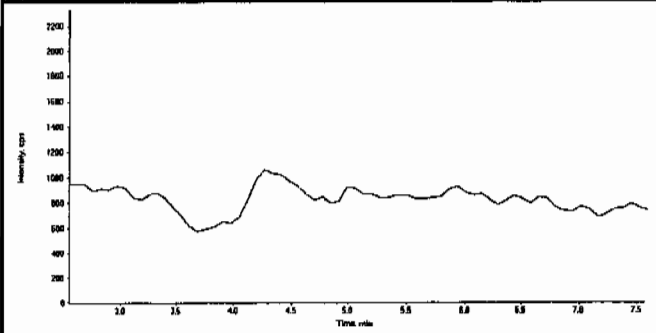
*done 3/24/10*  
*LER*  
*3/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

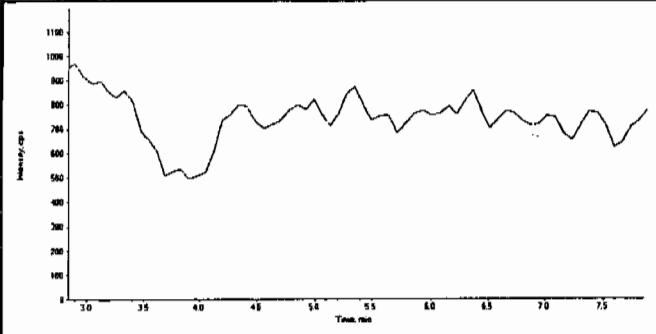
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312075.wiff	<b>Acquisition Date</b>	3/13/2010 4:32:48 PM
<b>Sample Name</b>	XIBLK12	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

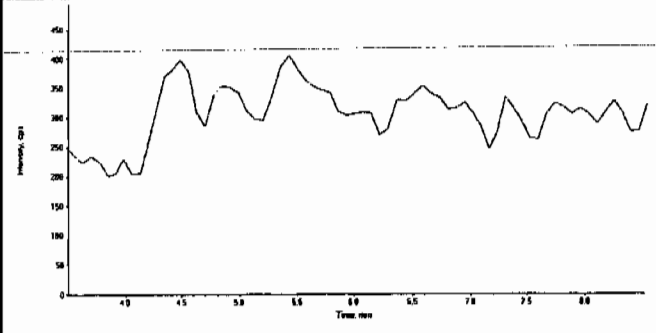
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

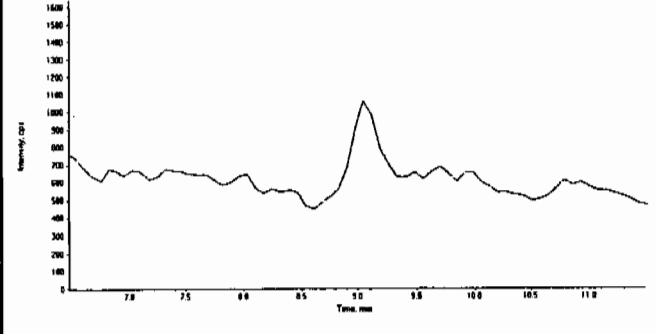
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312075.wiff	<b>Acquisition Date</b>	3/13/2010 4:32:48 PM
<b>Sample Name</b>	XIBLK12	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312075.wiff	<b>Acquisition Date</b>	3/13/2010 4:32:48 PM
<b>Sample Name</b>	XIBLK12	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312075.wiff	<b>Acquisition Date</b>	3/13/2010 4:32:48 PM
<b>Sample Name</b>	XIBLK12	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

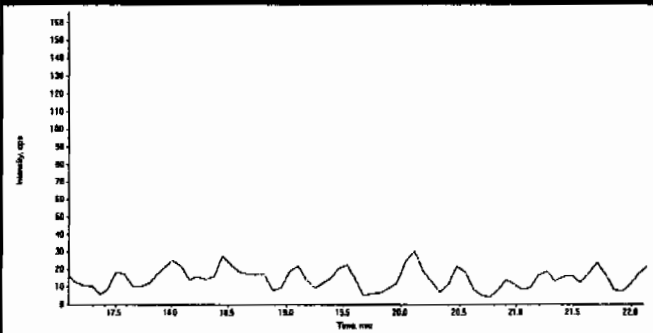
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312075.wiff	Acquisition Date	3/13/2010 4:32:48 PM
Sample Name	XIBLK12	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 13-MAR--10 22:16

GEL Data File: EXP0312088.wiff

Instrument ID: LCMSMS

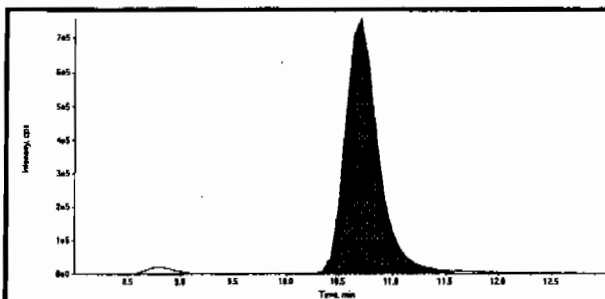
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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
HMX	0	0
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

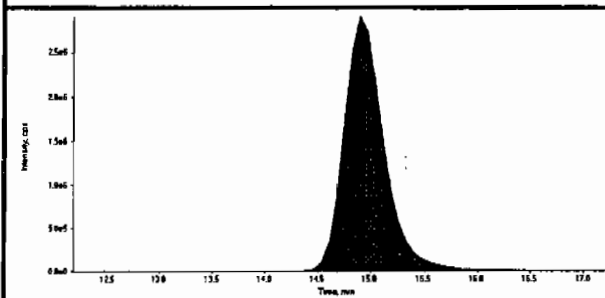
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



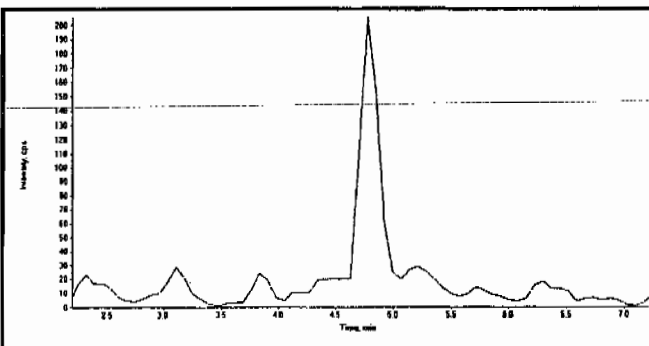
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	16500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

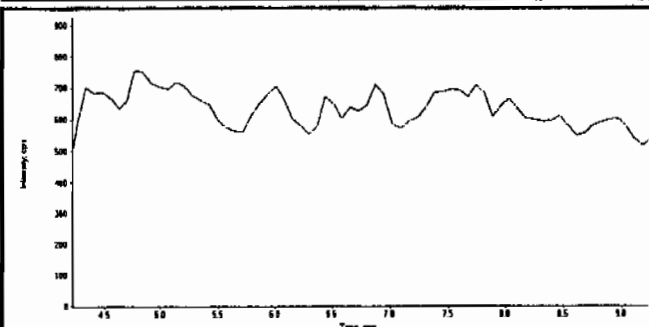


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	77300000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

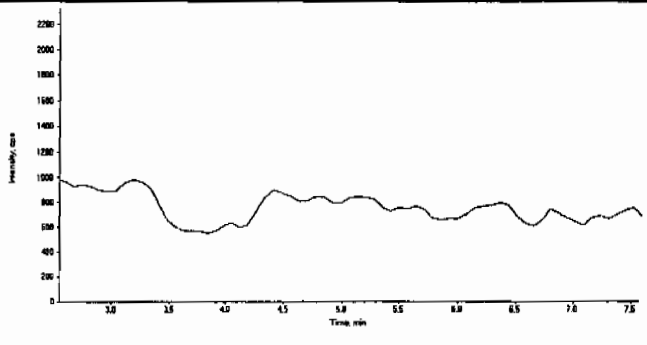
*Handwritten signature and date:*  
3/12/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321 A-Modified

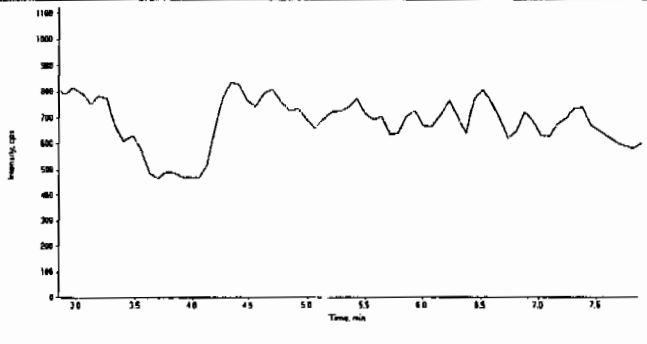
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312088.wiff	<b>Acquisition Date</b>	3/13/2010 10:16:46 PM
<b>Sample Name</b>	XIBLK13	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

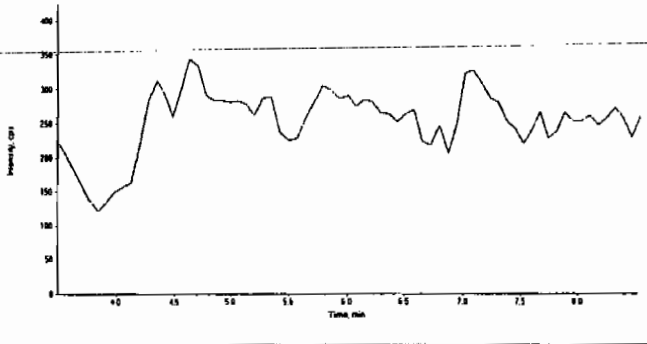
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

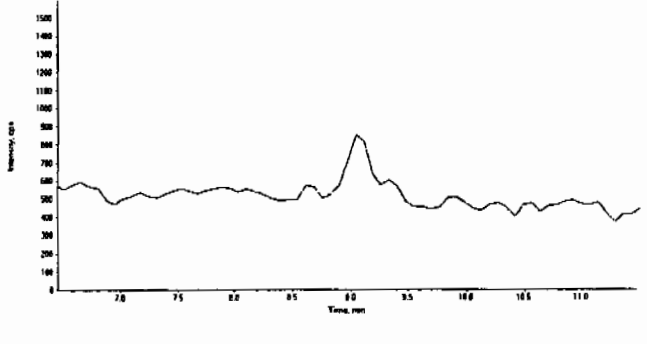
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312088.wiff	<b>Acquisition Date</b>	3/13/2010 10:16:46 PM
<b>Sample Name</b>	XIBLK13	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312088.wiff	Acquisition Date	3/13/2010 10:16:46 PM
Sample Name	XIBLK13	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

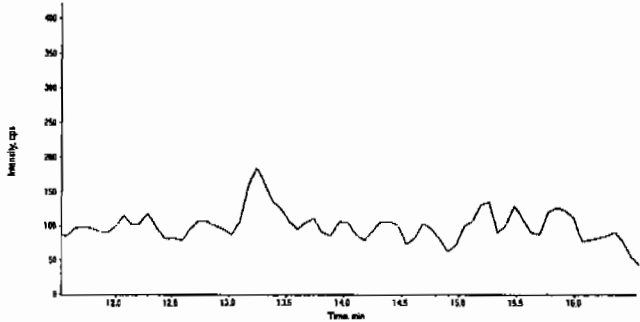


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

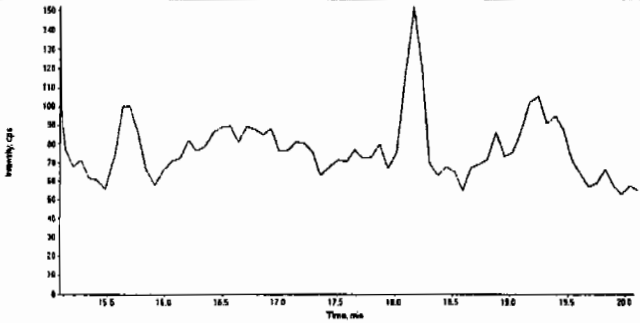
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312088.wiff	<b>Acquisition Date</b>	3/13/2010 10:16:46 PM
<b>Sample Name</b>	XIBLK13	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

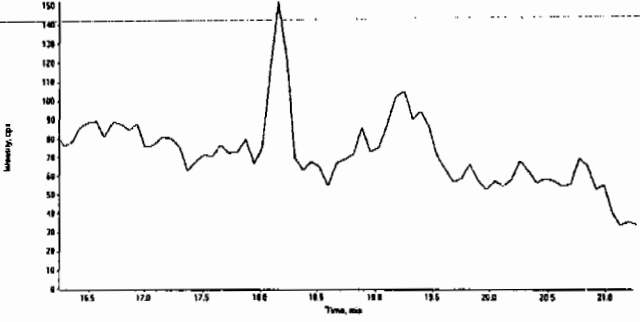
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

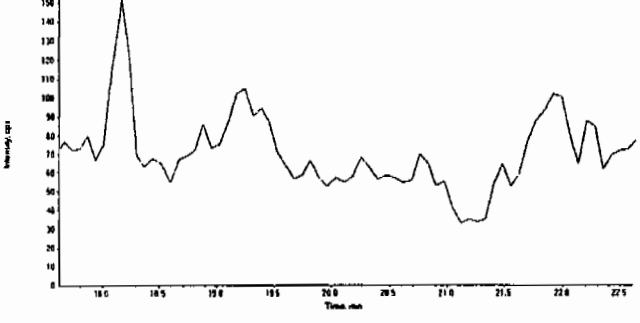
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

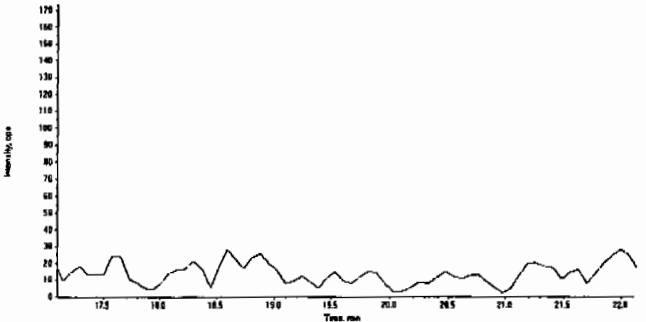
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312088.wiff	<b>Acquisition Date</b>	3/13/2010 10:16:46 PM
<b>Sample Name</b>	XIBLK13	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 14-MAR-10 04:34

GEL Data File: EXP0312100.wiff

Instrument ID: LCMSMS

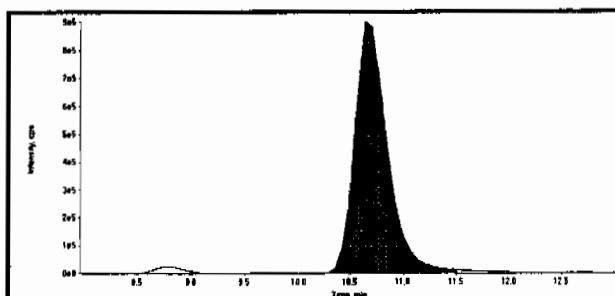
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
DNX	0	0
MNX	0	0
TNX	0	0
1,3,5-Trinitrobenzene	0	0
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
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

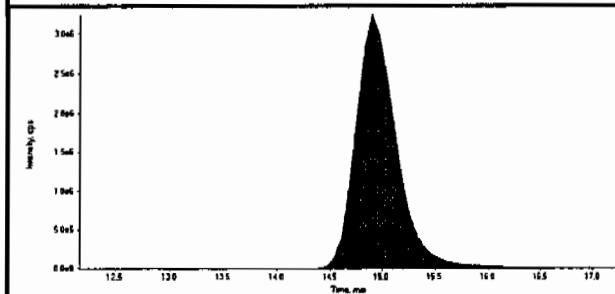
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

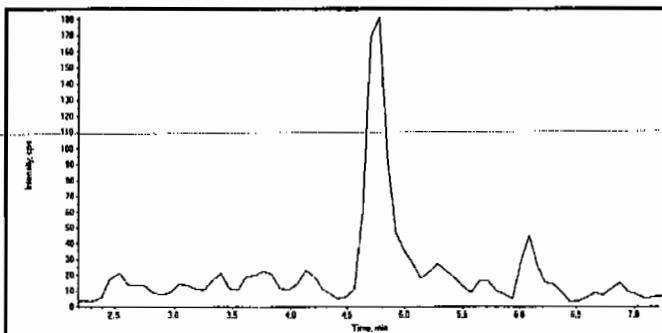
Data File	EXP0312100.wiff	Acquisition Date	3/14/2010 4:34:03 AM
Sample Name	XIBLK14	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_B	Sample Type	Unknown



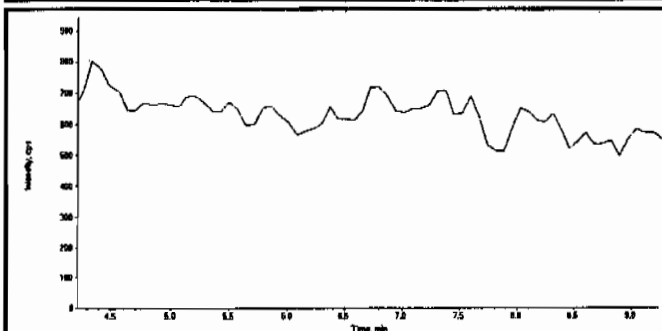
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	87600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

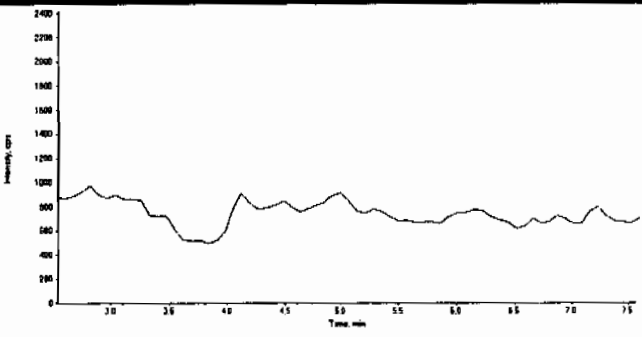
*Handwritten:*  
Amey 03/24/10  
Jen 3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

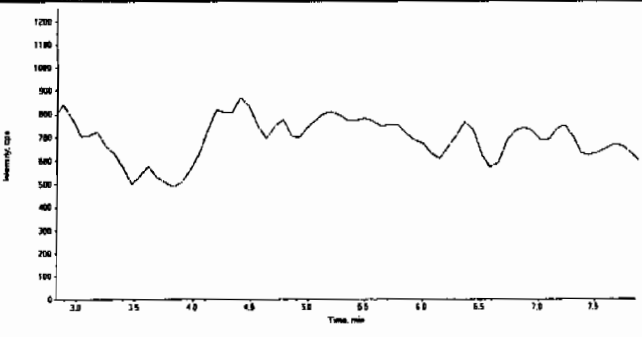
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312100.wiff	<b>Acquisition Date</b>	3/14/2010 4:34:03 AM
<b>Sample Name</b>	XIBLK14	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

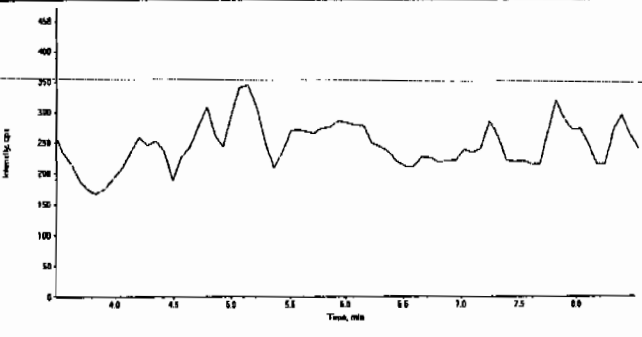
  

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

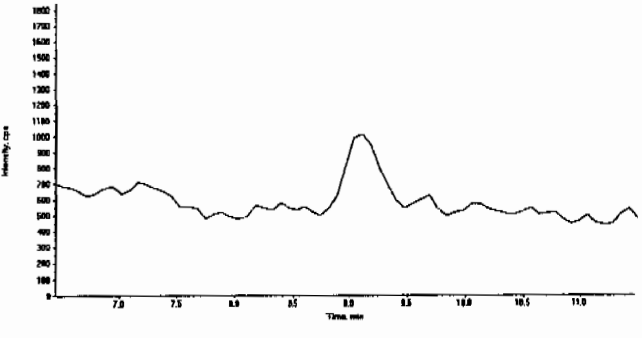
  

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

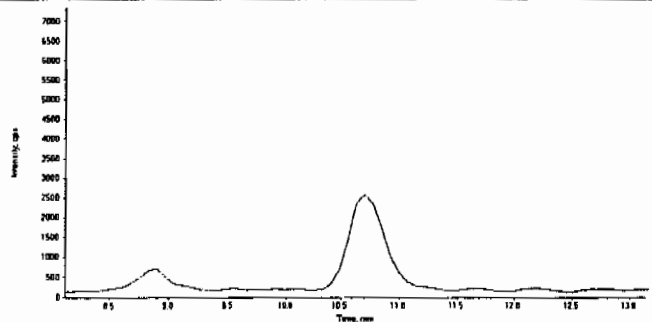
	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

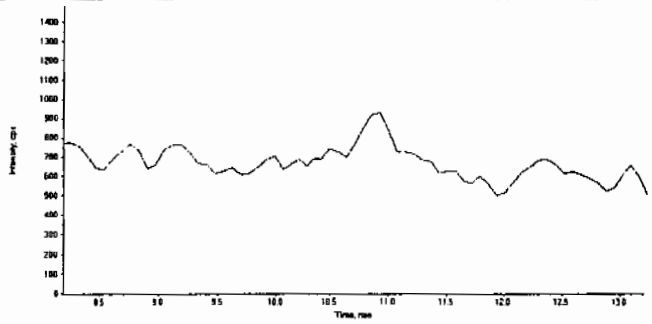
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312100.wiff	<b>Acquisition Date</b>	3/14/2010 4:34:03 AM
<b>Sample Name</b>	XIBLK14	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

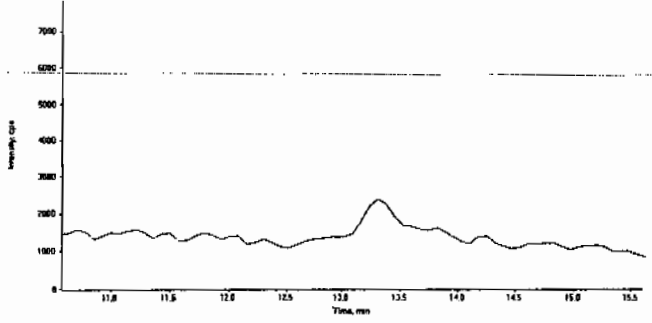
  

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

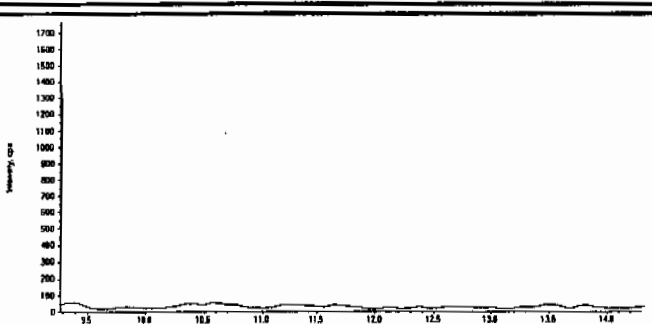
  

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312100.wiff	<b>Acquisition Date</b>	3/14/2010 4:34:03 AM
<b>Sample Name</b>	XIBLK14	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312100.wiff	<b>Acquisition Date</b>	3/14/2010 4:34:03 AM
<b>Sample Name</b>	XIBLK14	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

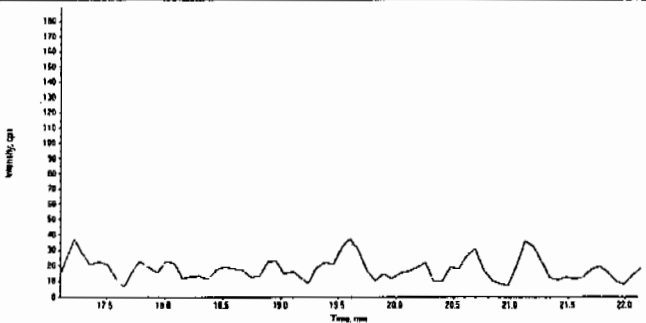
  

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312100.wiff	<b>Acquisition Date</b>	3/14/2010 4:34:03 AM
<b>Sample Name</b>	XIBLK14	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_B	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 01-MAR-10 11:24

GEL Data File: EXS03010010.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	2.74
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/3/10

Sample Name: "XIBLK02" Sample ID: "TILER" File: "EXS03010010.wif"

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

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

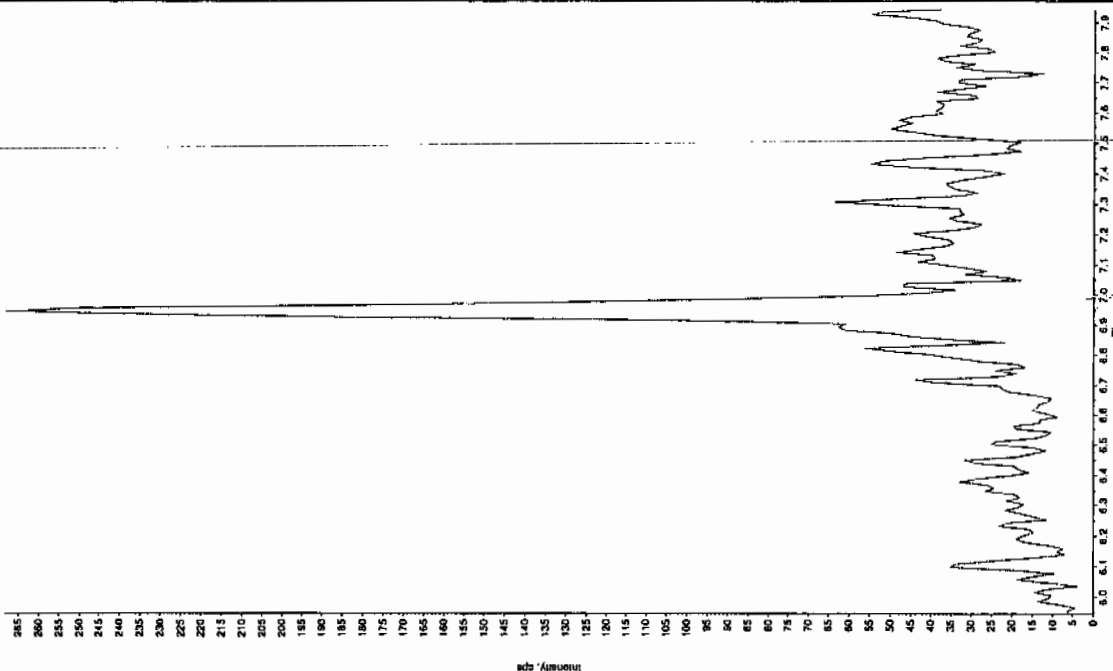
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/1/2010

Acq. Time: 11:24:42 AM

Modified: NO



Sample Name: "XIBLK02" Sample ID: "TILER" File: "EXS03010010.wif"

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

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

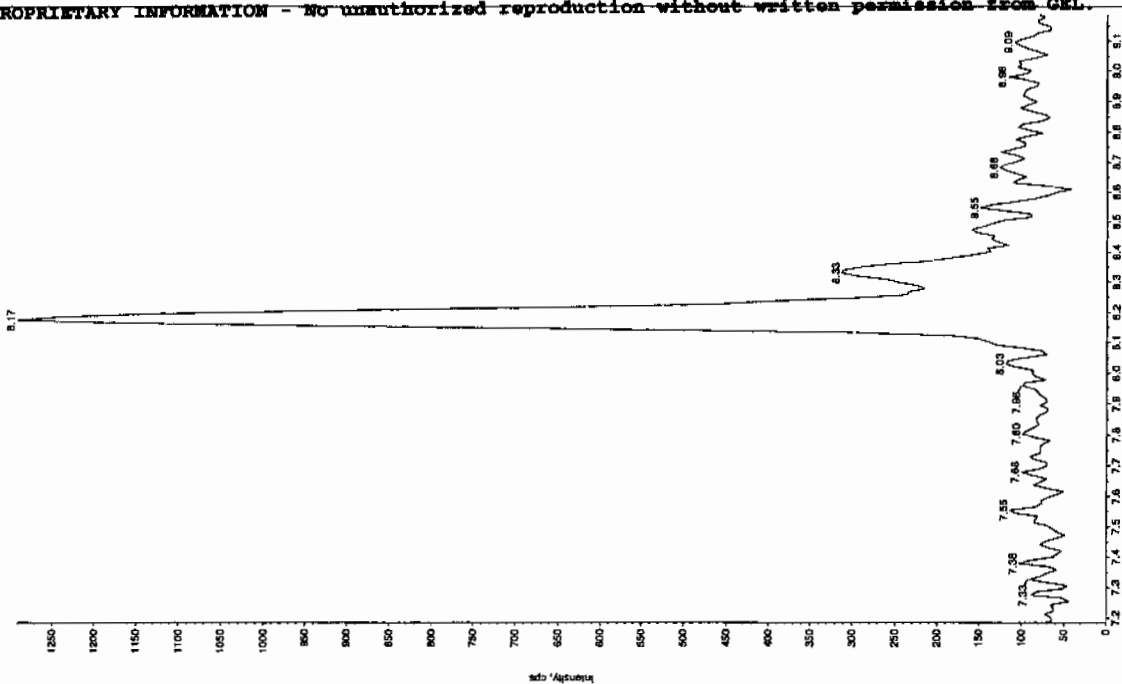
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/1/2010

Acq. Time: 11:24:42 AM

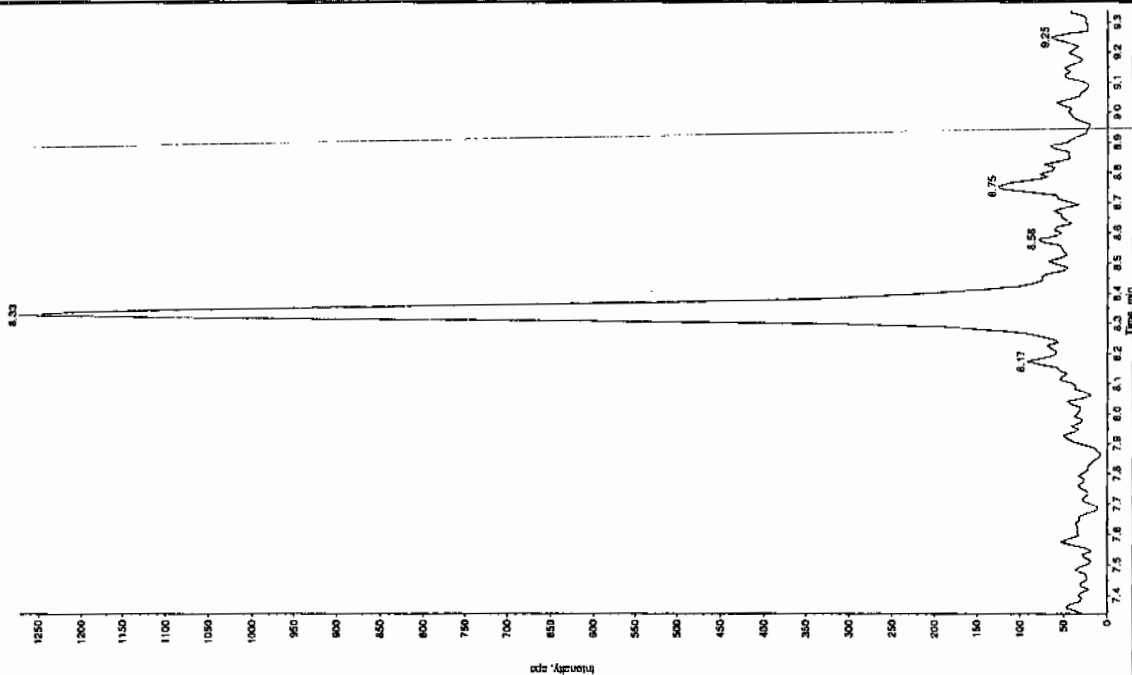
Modified: NO



thru 03/04/10

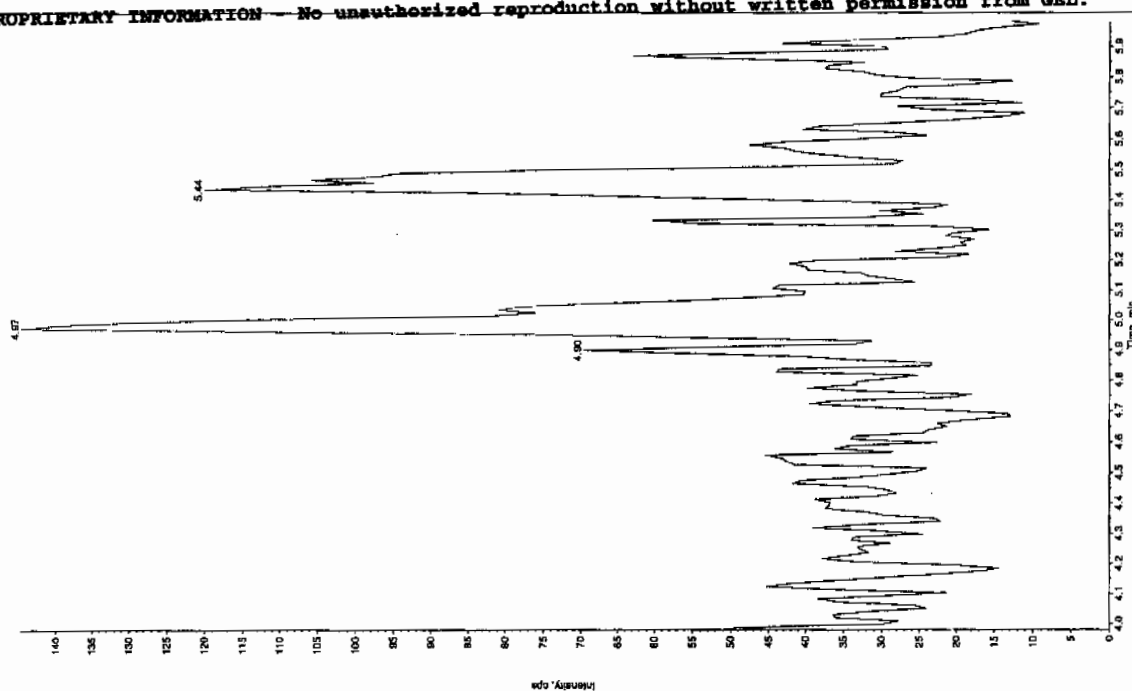
Sample Name: "XBLX02" Sample ID: "111ER" File: "EXS03010010.wif"  
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "156.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:24:42 AM  
 Modified: No



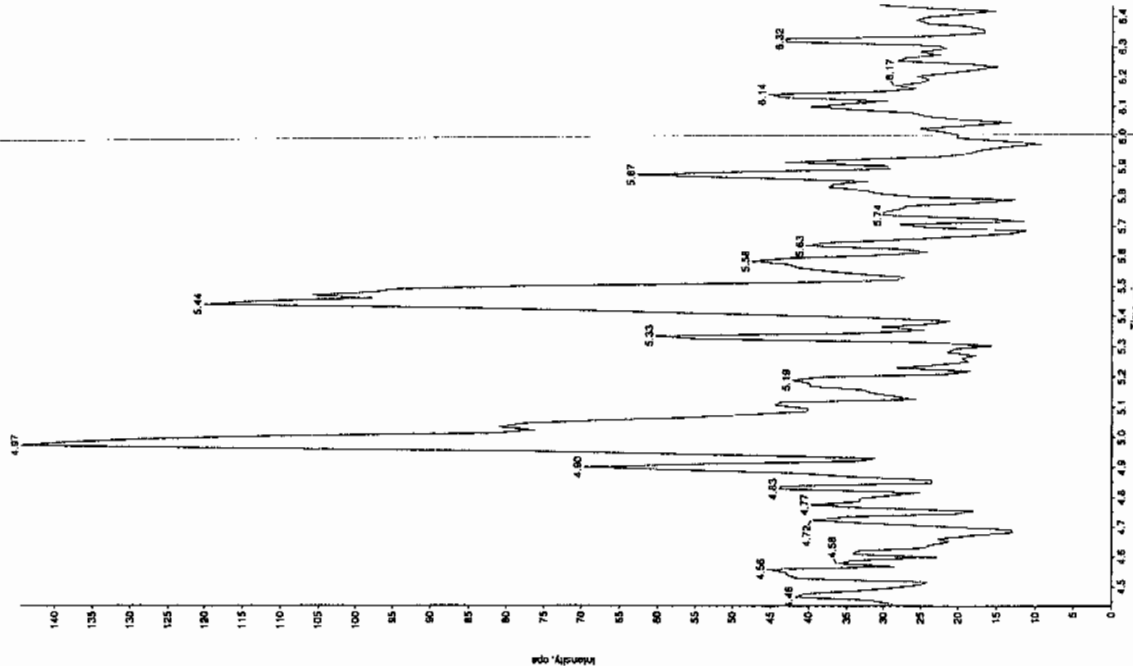
Sample Name: "XBLX02" Sample ID: "111ER" File: "EXS03010010.wif"  
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.17151.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:24:42 AM  
 Modified: No



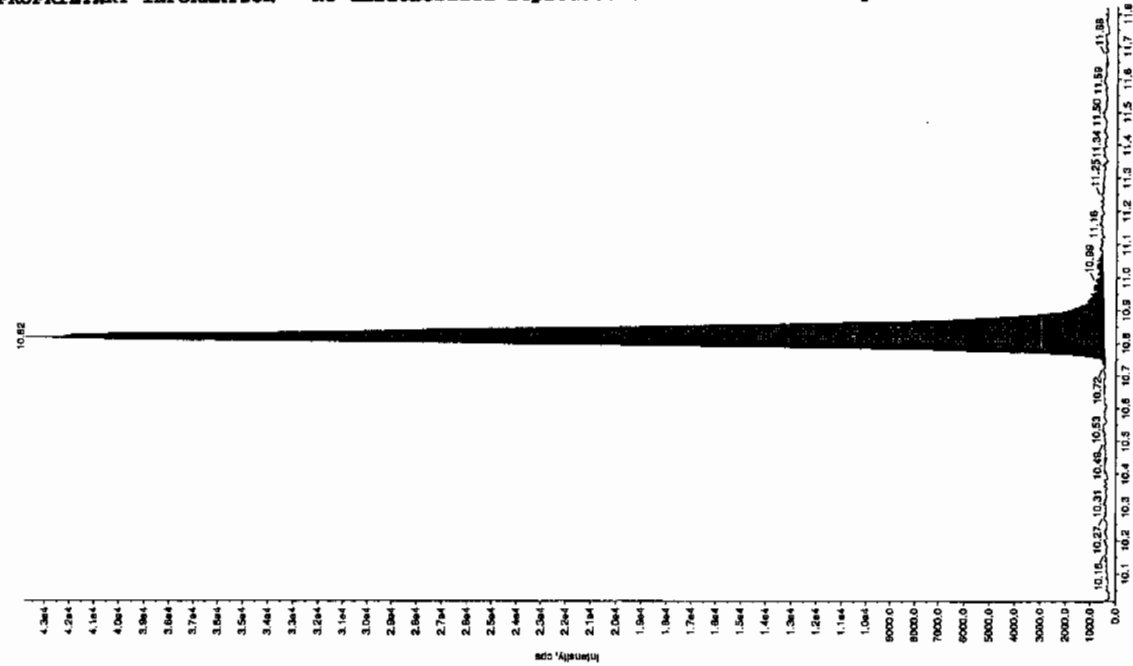
Sample Name: 'XBLK02' Sample ID: '1111ER' File: 'EX00010010.wif'  
 Peak Name: '24-Diamino-6-nitroclouane' Mass(es): '160.046.0 amu'  
 Comment: 'LCMSEXP\_B' Annotation: ''

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:24:42 AM  
 Modified: No



Sample Name: 'XBLK02' Sample ID: '1111ER' File: 'EX00010010.wif'  
 Peak Name: '160.046.0 amu' Mass(es): '358.1791.0 amu'  
 Comment: 'LCMSEXP\_B' Annotation: ''

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 2.74 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:24:42 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: 1.55e+005 counts  
 Height: 43378.235 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): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 01-MAR-10 11:56

GEL Data File: EXS03010012.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

for 3/3/10

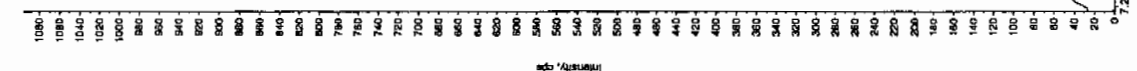
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: XIBLX03 Sample ID: TILER File: EX50010012.wml

Peak Name: TATB Mass(es): 152.046.0 amu

Comment: LONSEXP\_B1 Annotation:

Sample Index: 1  
 Sample Type: Unknown  
 Concentrated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:56:08 AM  
 Modified: No



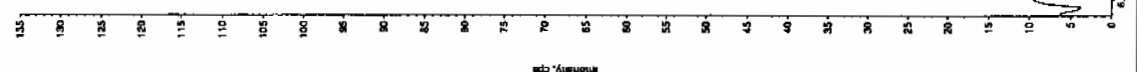
for 03/04/10

Sample Name: XIBLX03 Sample ID: TILER File: EX50010012.wml

Peak Name: TATB Mass(es): 257.2204.9 amu

Comment: LONSEXP\_B1 Annotation:

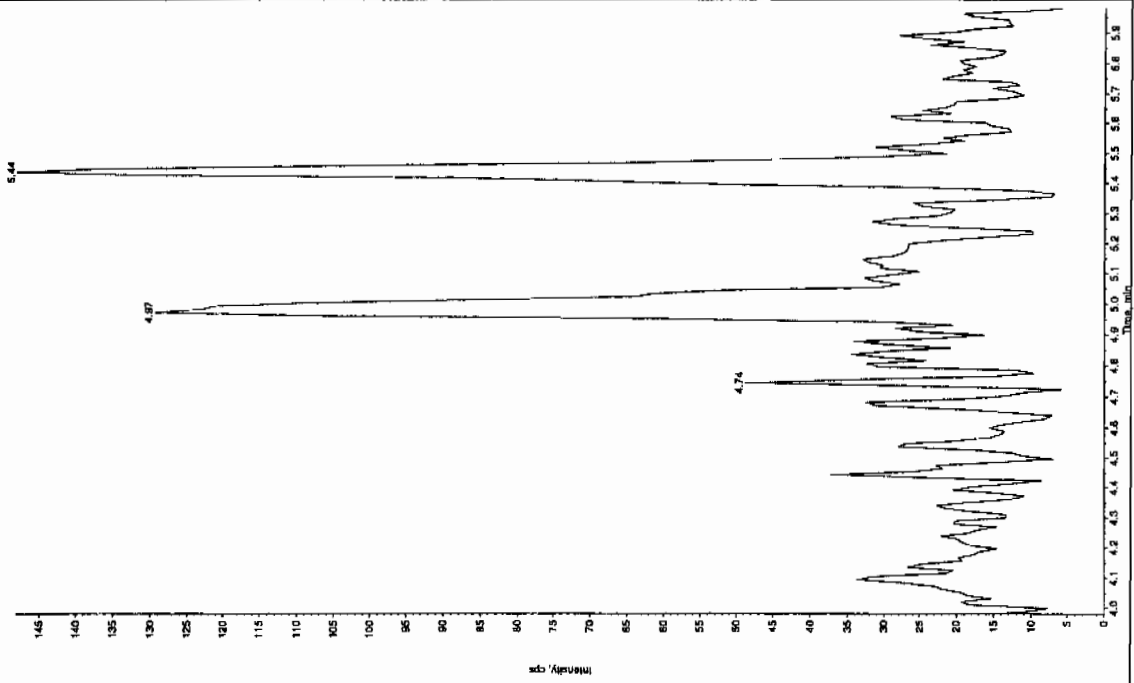
Sample Index: 1  
 Sample Type: Unknown  
 Concentrated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:56:08 AM  
 Modified: No



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

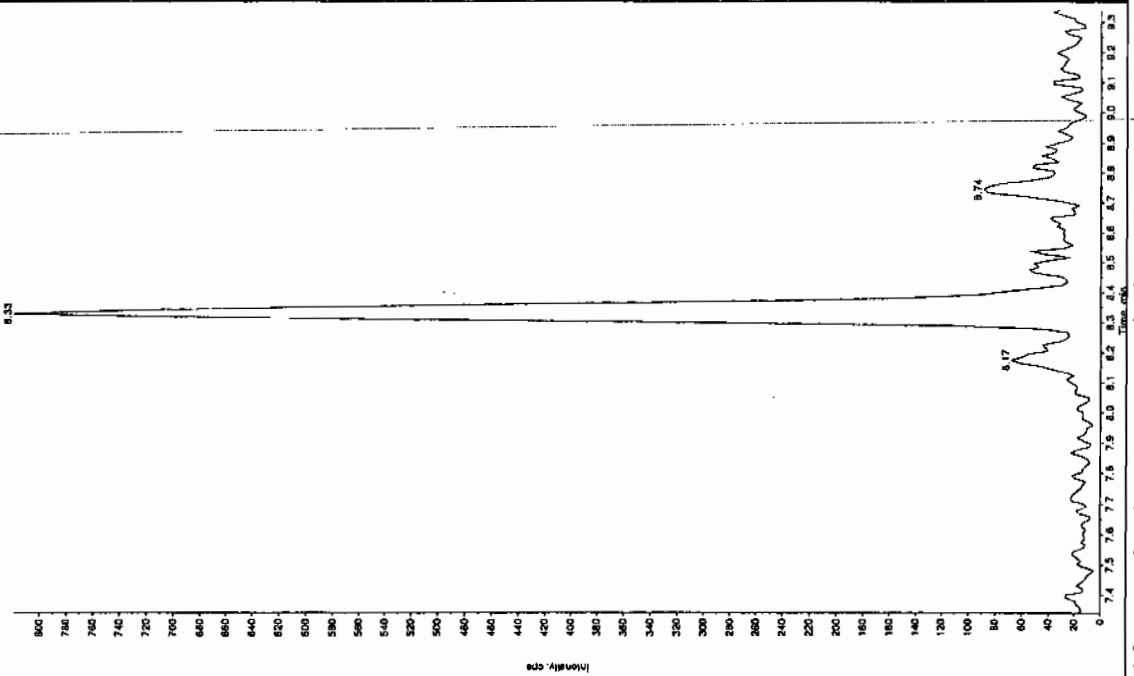
Sample Name: "XBLK03" Sample ID: "1111ER" File: "EXS03010012.will"  
 Peak Name: "28-Diamino-4-nitrobenzene" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:56:08 AM  
 Modified: No



Sample Name: "XBLK03" Sample ID: "1111ER" File: "EXS03010012.will"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.0751.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

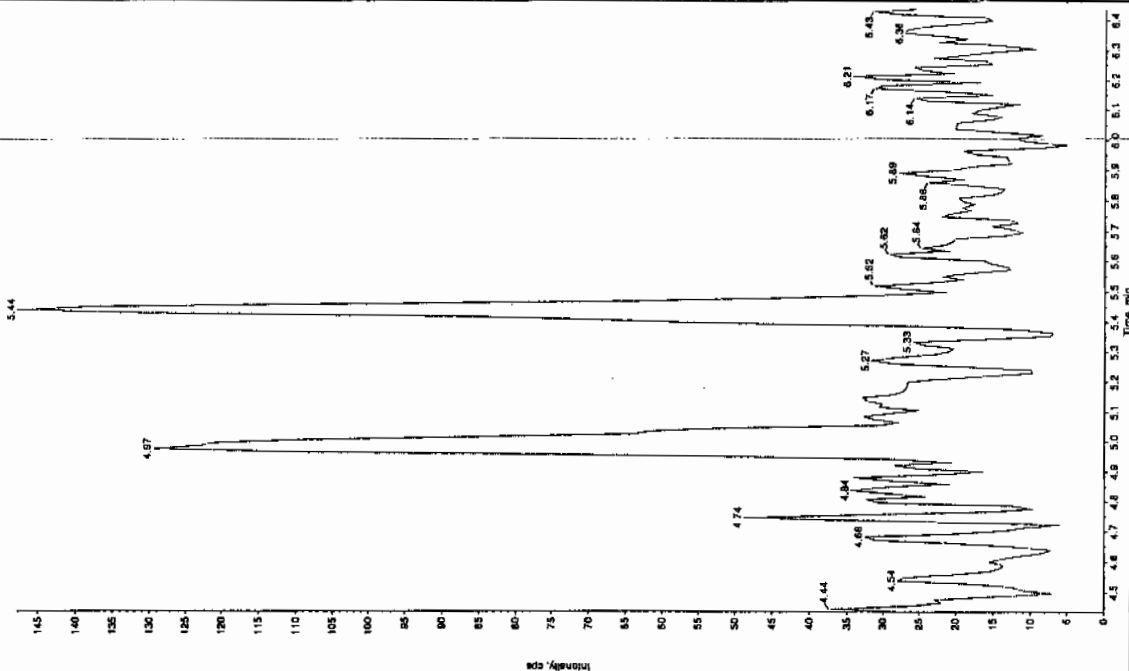
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:56:08 AM  
 Modified: No





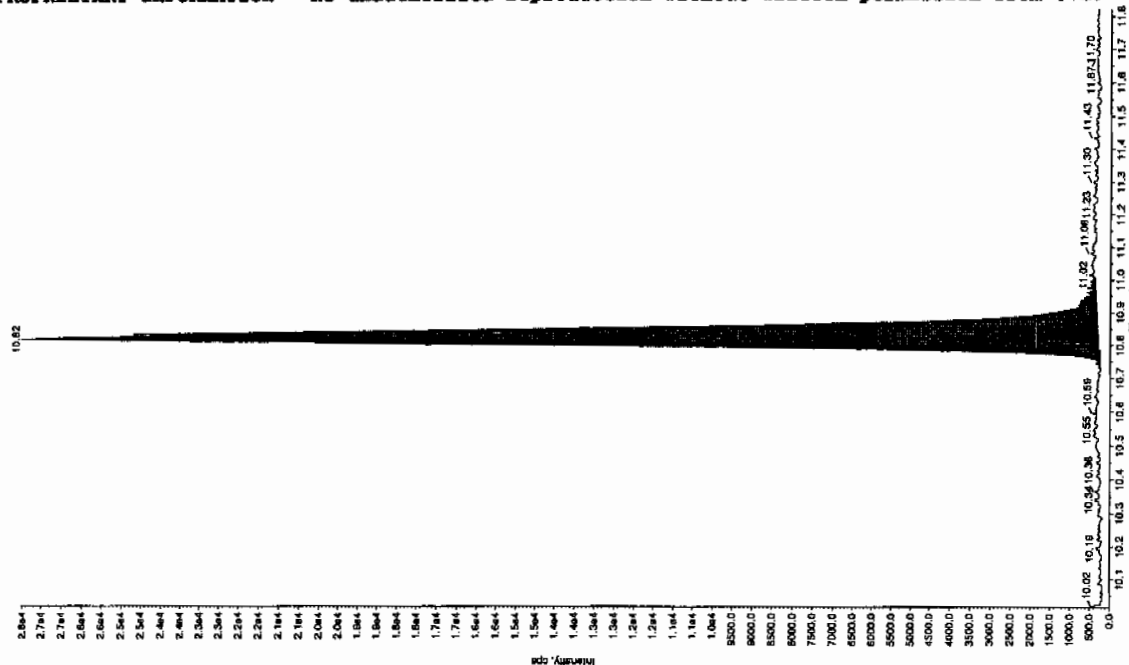
Sample Name: "XBLK03" Sample ID: "HILLER" File: "EXS03010012.wif"  
 Peak Name: "24-Diethyl-6-nitrofluorene" Mass(es): "166.045.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:56:08 AM  
 Modified: No



Sample Name: "XBLK03" Sample ID: "HILLER" File: "EXS03010012.wif"  
 Peak Name: "Methylcyclohexane" Mass(es): "385.181.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: < 0  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:56:08 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 30.0 points  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 9.72e-004 counts  
 Height: 27251.160 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): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 01-MAR-10 15:20

GEL Data File: EXS03010025.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

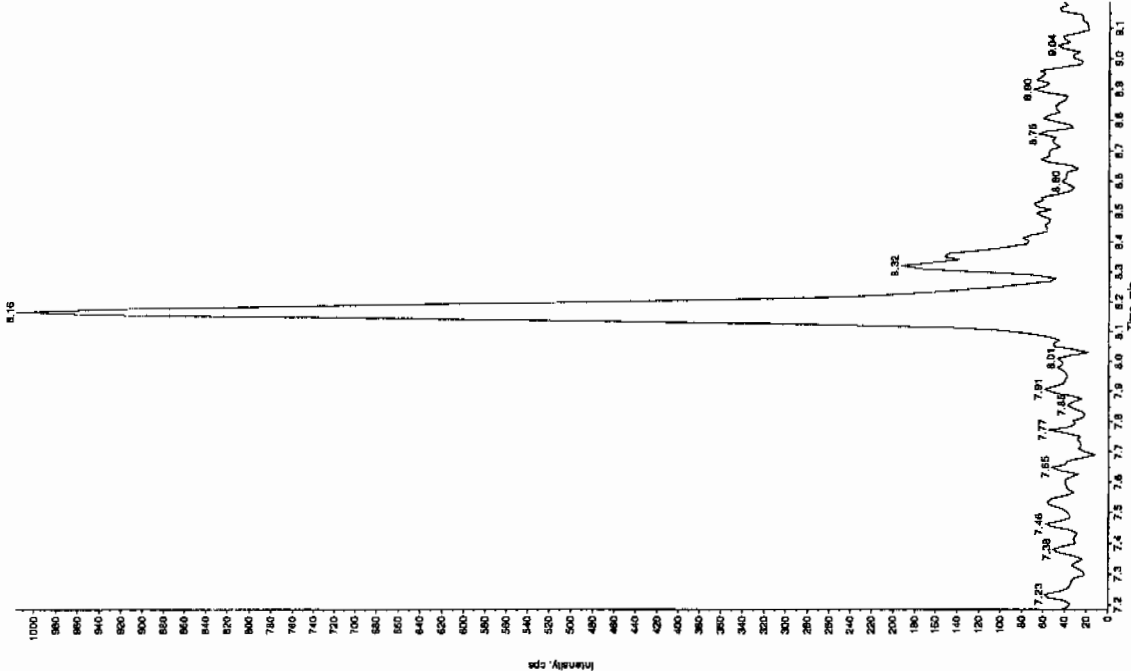
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jun 3/3/10

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "XBLK04" Sample ID: "11LER" File: "EXS03010025.wif"  
 Peak Name: "35-Chlorophyll" Mass(es): "162.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "1"

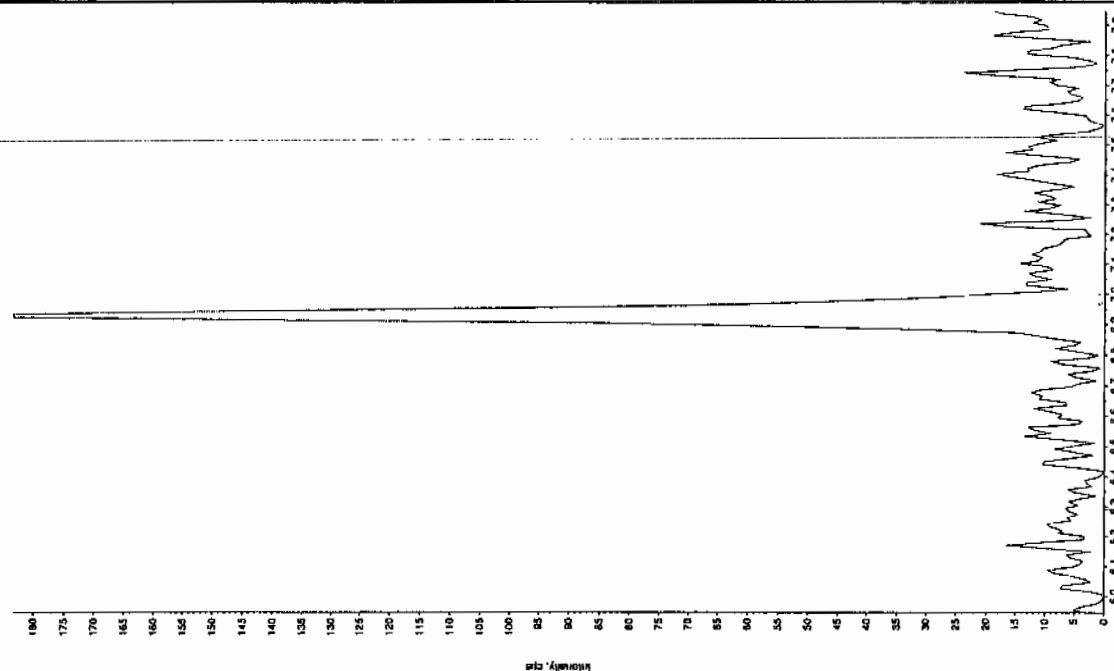
Sample Index: Unknown  
 Sample Type: N/A  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 3/1/2010  
 Acq. Date: 3:20:41 PM  
 Acq. Time: 3:20:41 PM  
 Modified: NO



Hum 03/04/10

Sample Name: "XBLK04" Sample ID: "11LER" File: "EXS03010025.wif"  
 Peak Name: "35-Chlorophyll" Mass(es): "162.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "1"

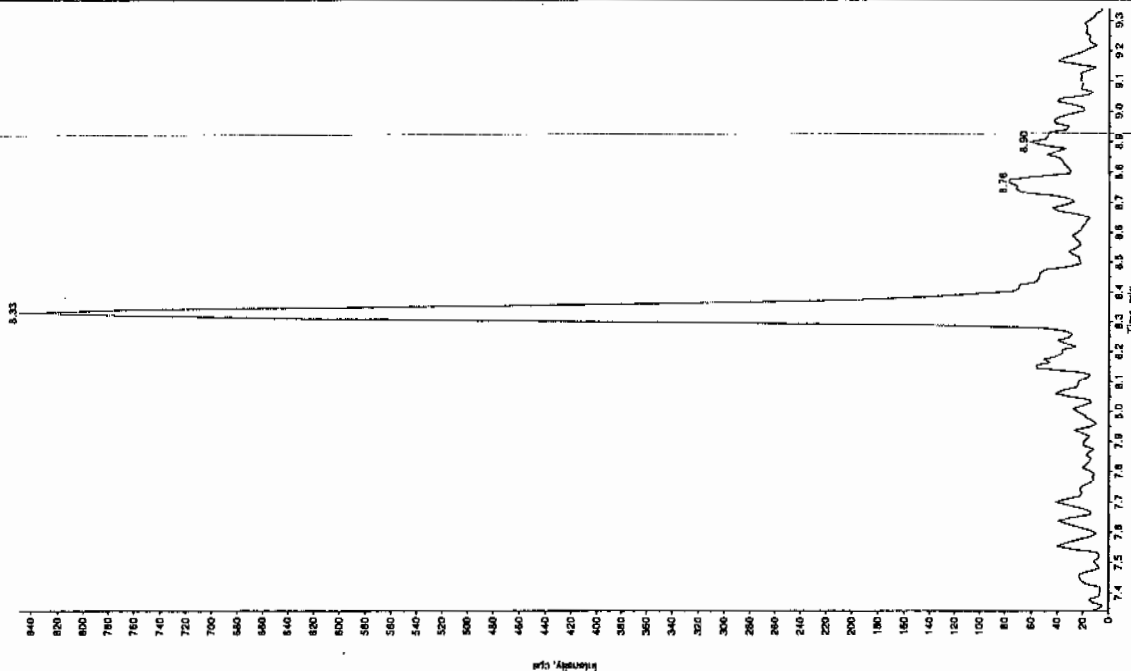
Sample Index: Unknown  
 Sample Type: N/A  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 3/1/2010  
 Acq. Date: 3:20:41 PM  
 Acq. Time: 3:20:41 PM  
 Modified: NO



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

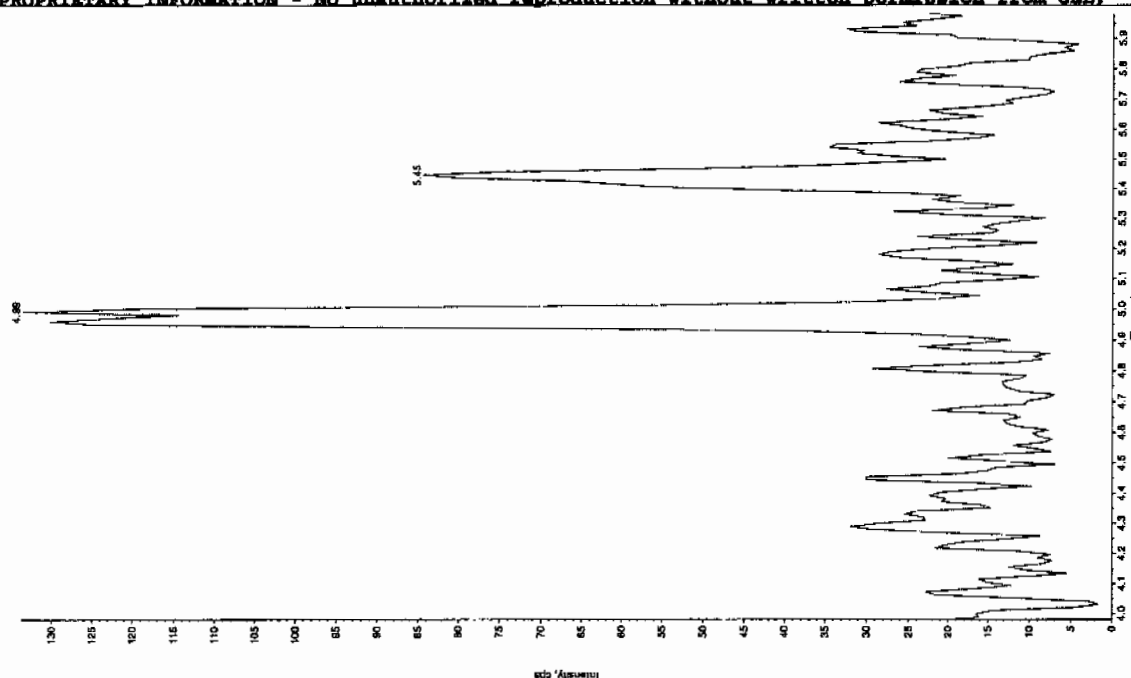
Sample Name: "YBLK04" Sample ID: "TILLER" File: "EXS031025.wif"  
 Peak Name: "34-Dibutylamine" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 3:20:41 PM  
 Modified: No



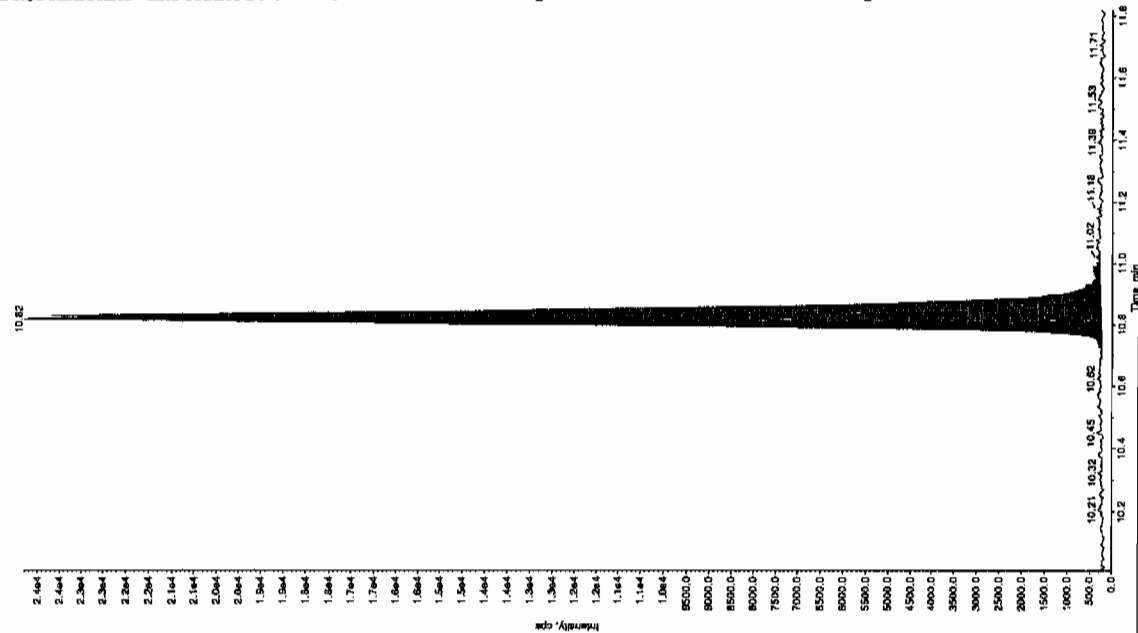
Sample Name: "YBLK04" Sample ID: "TILLER" File: "EXS031025.wif"  
 Peak Name: "26-Octadec-4-enoic acid" Mass(es): "166.0/160.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 3:20:41 PM  
 Modified: No



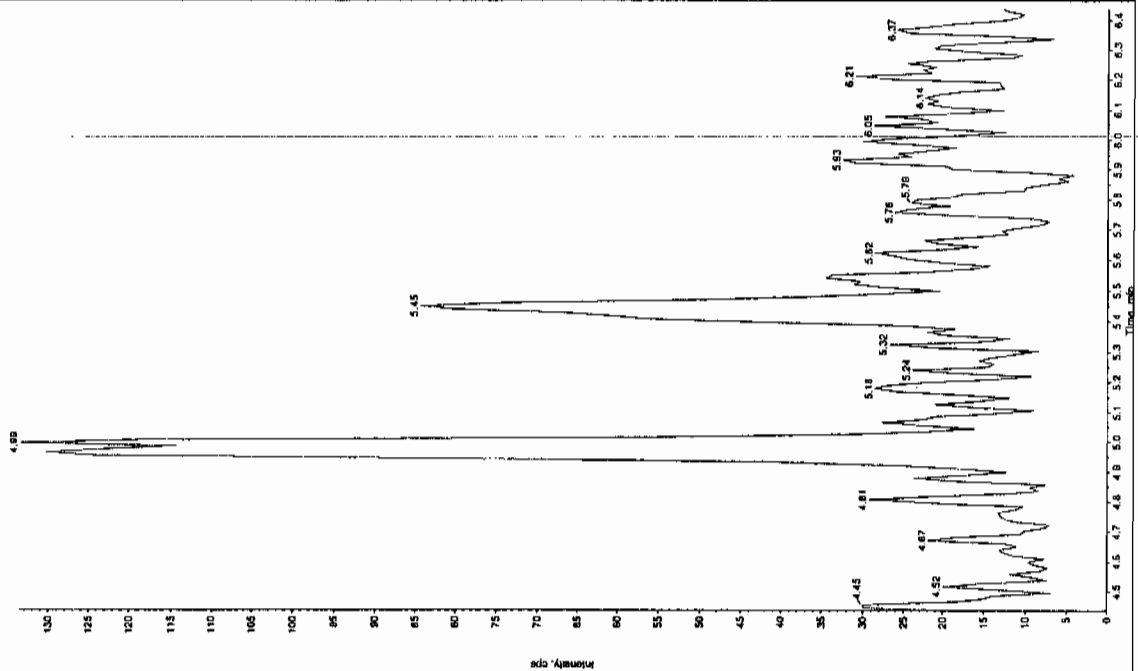
Sample Name: "XIBLX04" Sample ID: "1111ER" File: "EXS0301.0025.wif"  
 Peak Name: "24-Diamino-6-nitroindane" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: No Intercept  
 Acq. Date: 3/1/2010  
 Acq. Time: 3:20:41 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.60 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.6 min  
 Area: 8.41e+004 counts  
 Height: 24045.229 cps  
 Start Time: 10.7 min  
 End Time: 11.0 min



Sample Name: "XIBLX04" Sample ID: "1111ER" File: "EXS0301.0025.wif"  
 Peak Name: "24-Diamino-6-nitroindane" 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: 3/1/2010  
 Acq. Time: 3:20:41 PM  
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 01-MAR-10 16:55

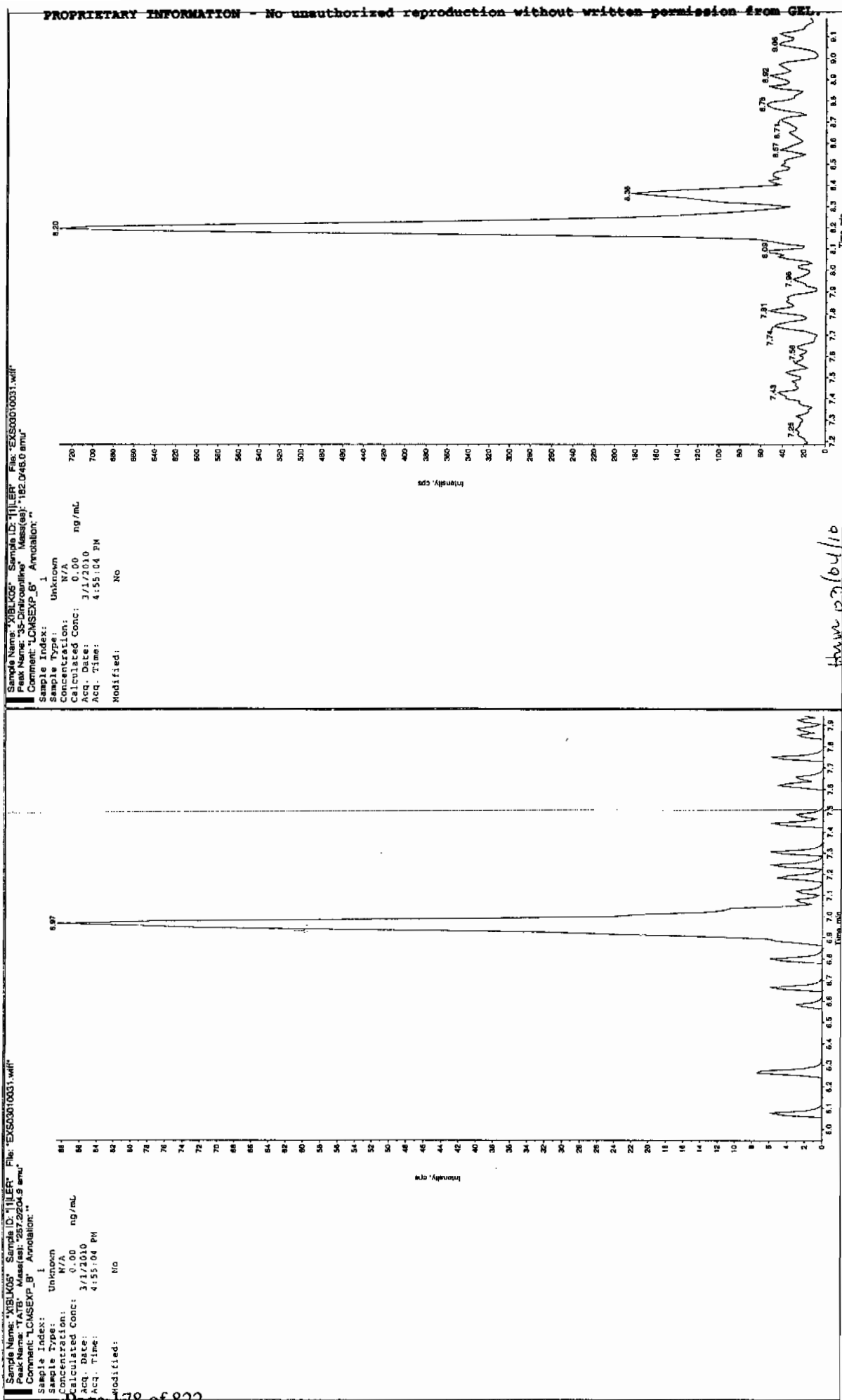
GEL Data File: EXS03010031.wiff

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 3/3/10



Sample Name: "XBLK05" Sample ID: "11111" File: "EX503010031.will"  
 Peak Name: "3S-Dinitrofluorene" 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: 3/1/2010  
 Acq. Time: 4:55:04 PM  
 Modified: No

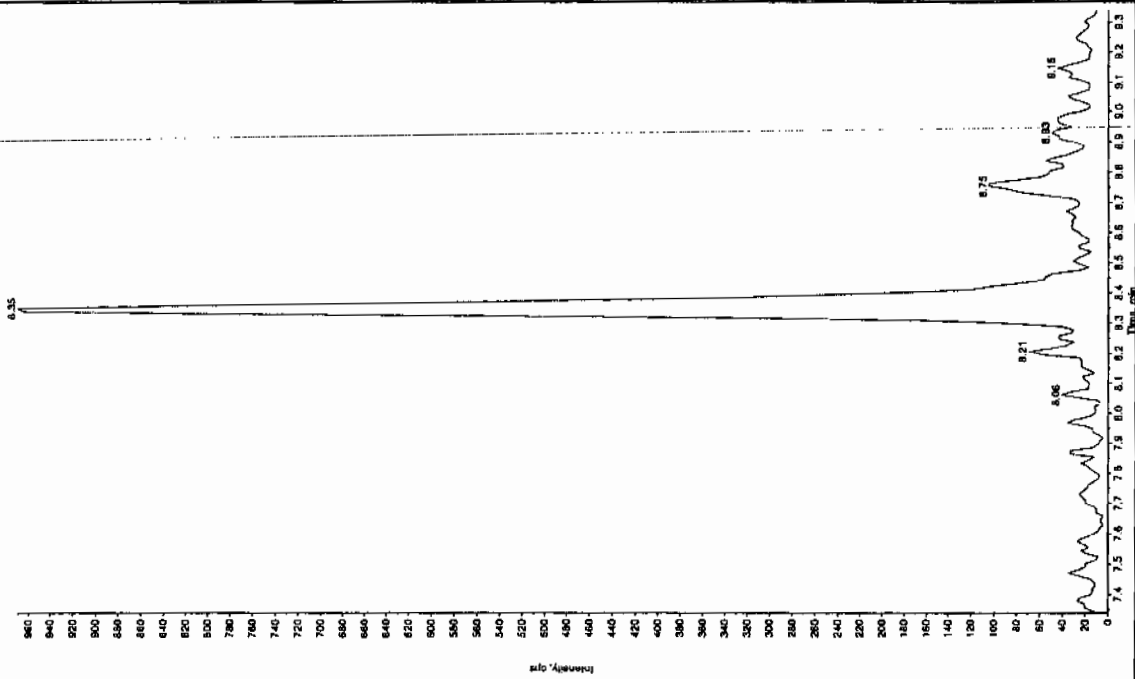
Sample Name: "XBLK05" Sample ID: "11111" File: "EX503010031.will"  
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""  
 Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 4:55:04 PM  
 Modified: No

Jan 12/3/04/10

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

Sample Name: "XIBUKOS" Sample ID: "111LER" File: "EXS03010031.will"  
 Peak Name: "25-Diamino-4-nitroindene" Mass(es): "165.045.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 4:55:04 PM  
 Modified: No



Sample Name: "XIBUKOS" Sample ID: "111LER" File: "EXS03010031.will"  
 Peak Name: "34-Dinitroindene" Mass(es): "182.1/151.8 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

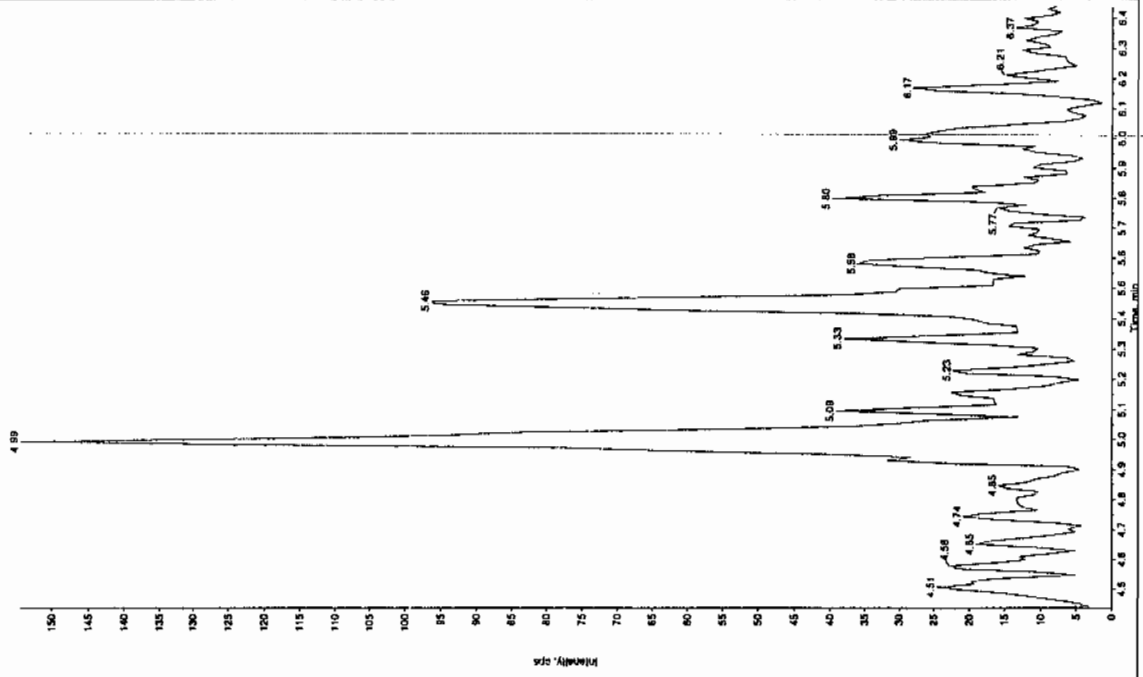
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 4:55:04 PM  
 Modified: No





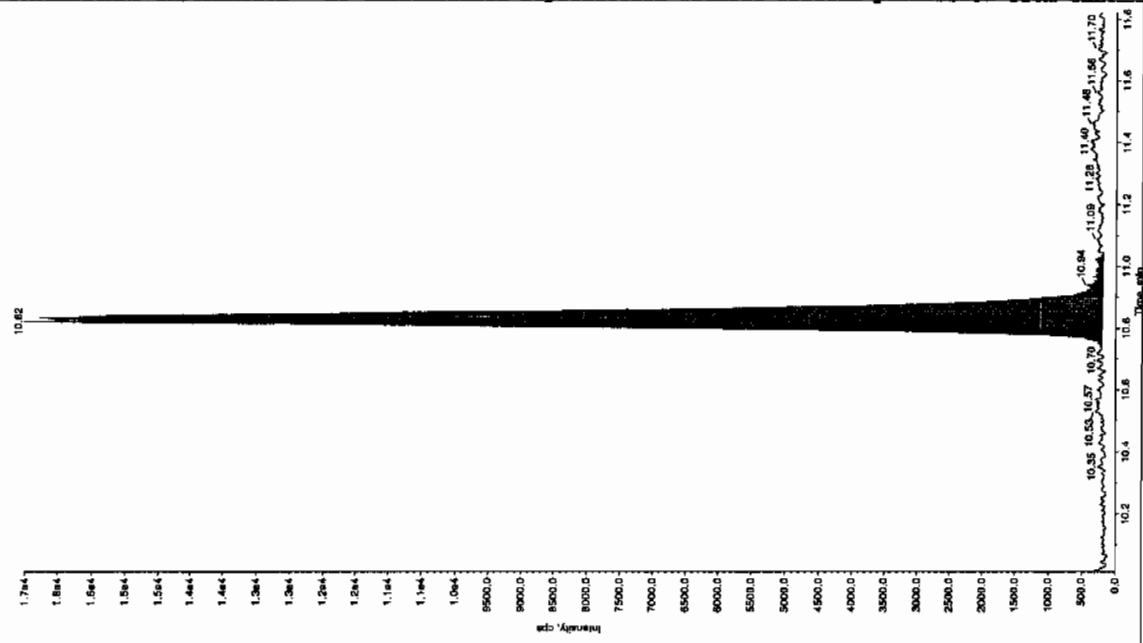
Sample Name: "XBLK05" Sample ID: "J11LEP" File: "EXS0010031.wif"  
 Peak Name: "24-Diamino-6-nitrophenol" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 4:55:04 PM  
 Modified: No



Sample Name: "XBLK05" Sample ID: "J11LEP" File: "EXS0010031.wif"  
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "386.191.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: No Intercept  
 Acq. Date: 3/1/2010  
 Acq. Time: 4:55:04 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: 6.03e+004 counts  
 Height: 16316.530 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): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK06

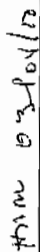
Analysis Date: 01-MAR-10 18:45

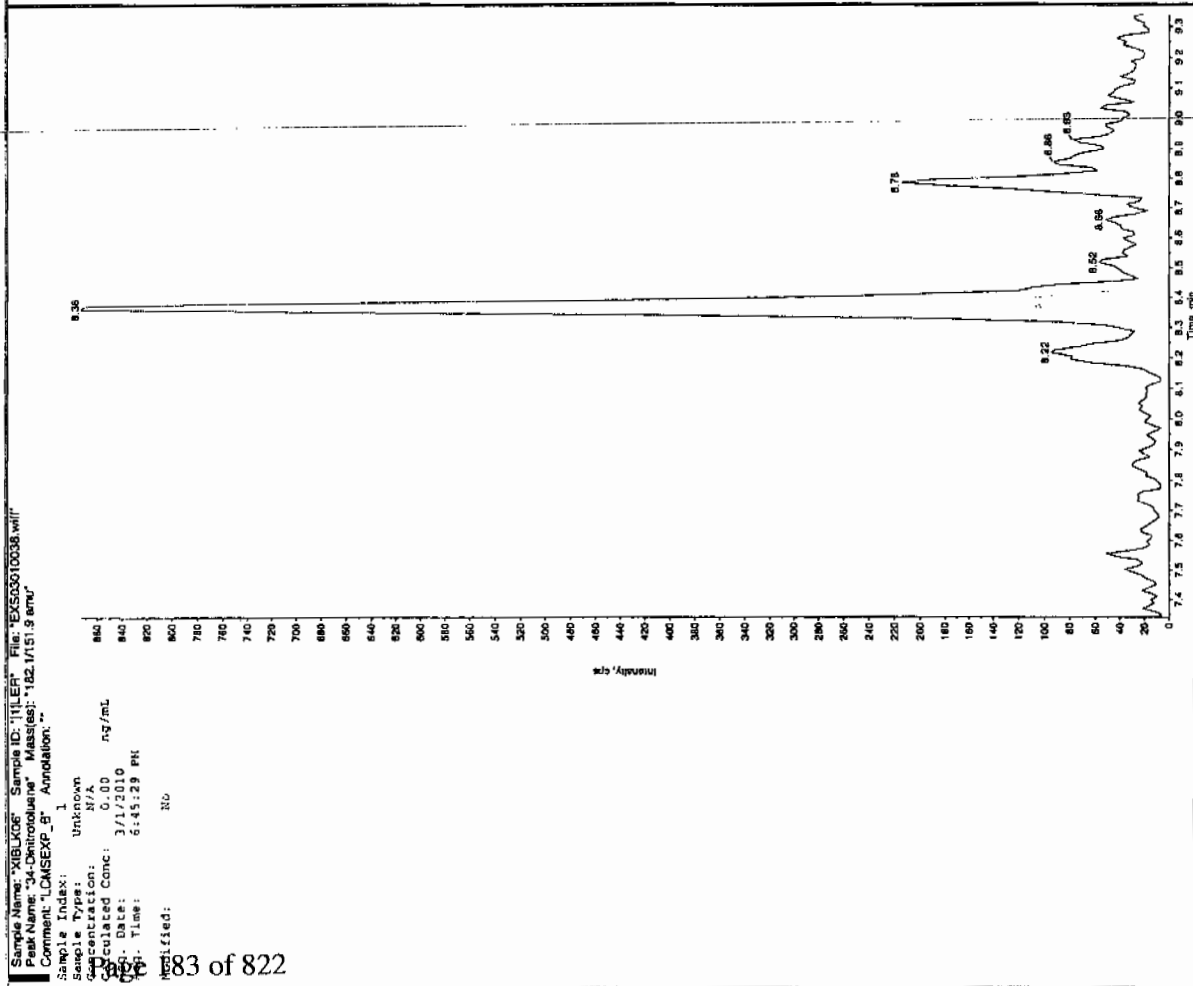
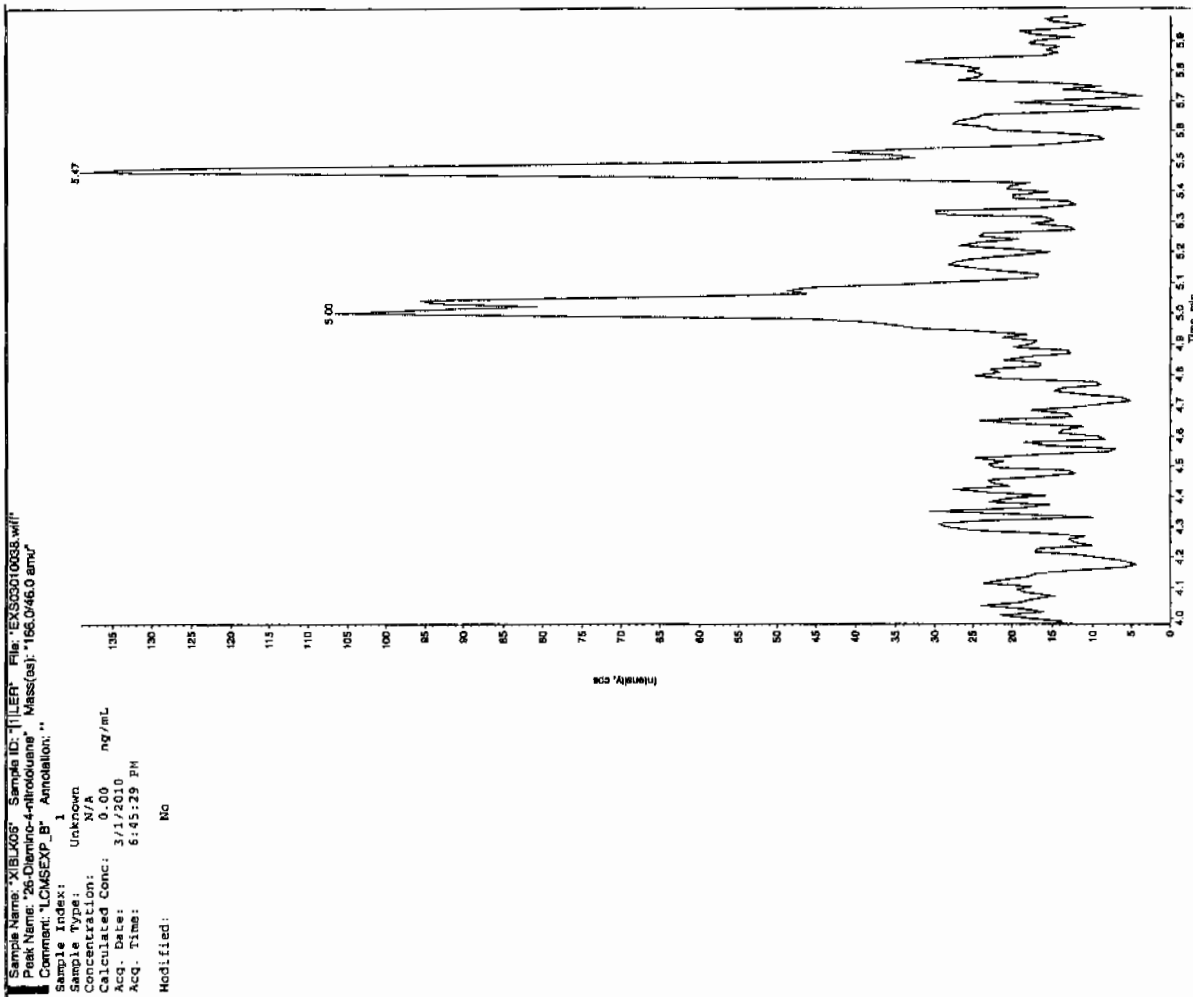
GEL Data File: EXS03010038.wiff

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
3,5-Dinitroaniline	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0

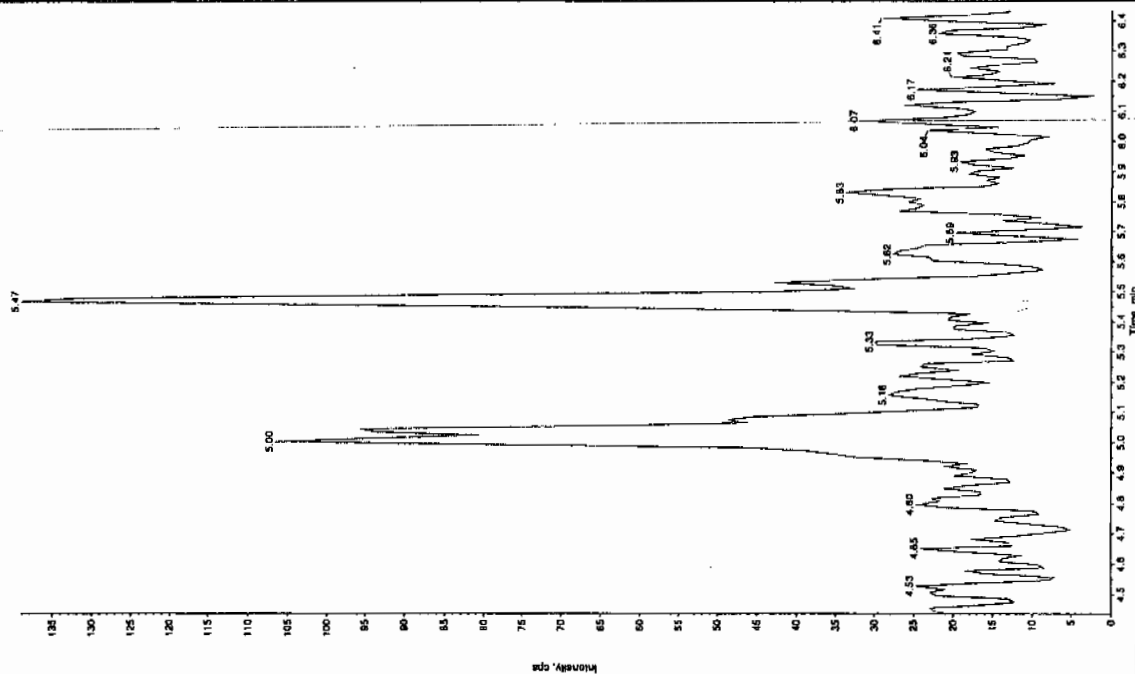




Sample Name: "X181K06" Sample ID: "111ER" File: "EX503010038.wif"  
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.191.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: < 0  
 Acq. Date: 3/1/2010  
 Acq. Time: 6:45:29 PM

Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 30.0 points  
 RT Min: 30.0 sec  
 Expected RT: 10.6 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.9 min  
 Area: 9.30e+004 counts  
 Height: 24775.198 cps  
 Start Time: 10.7 min  
 End Time: 11.1 min



Sample Name: "X181K06" Sample ID: "111ER" File: "EX503010038.wif"  
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 6:45:29 PM

Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 30.0 points  
 RT Min: 30.0 sec  
 Expected RT: 10.6 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.9 min  
 Area: 9.30e+004 counts  
 Height: 24775.198 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): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 01-MAR-10 22:10

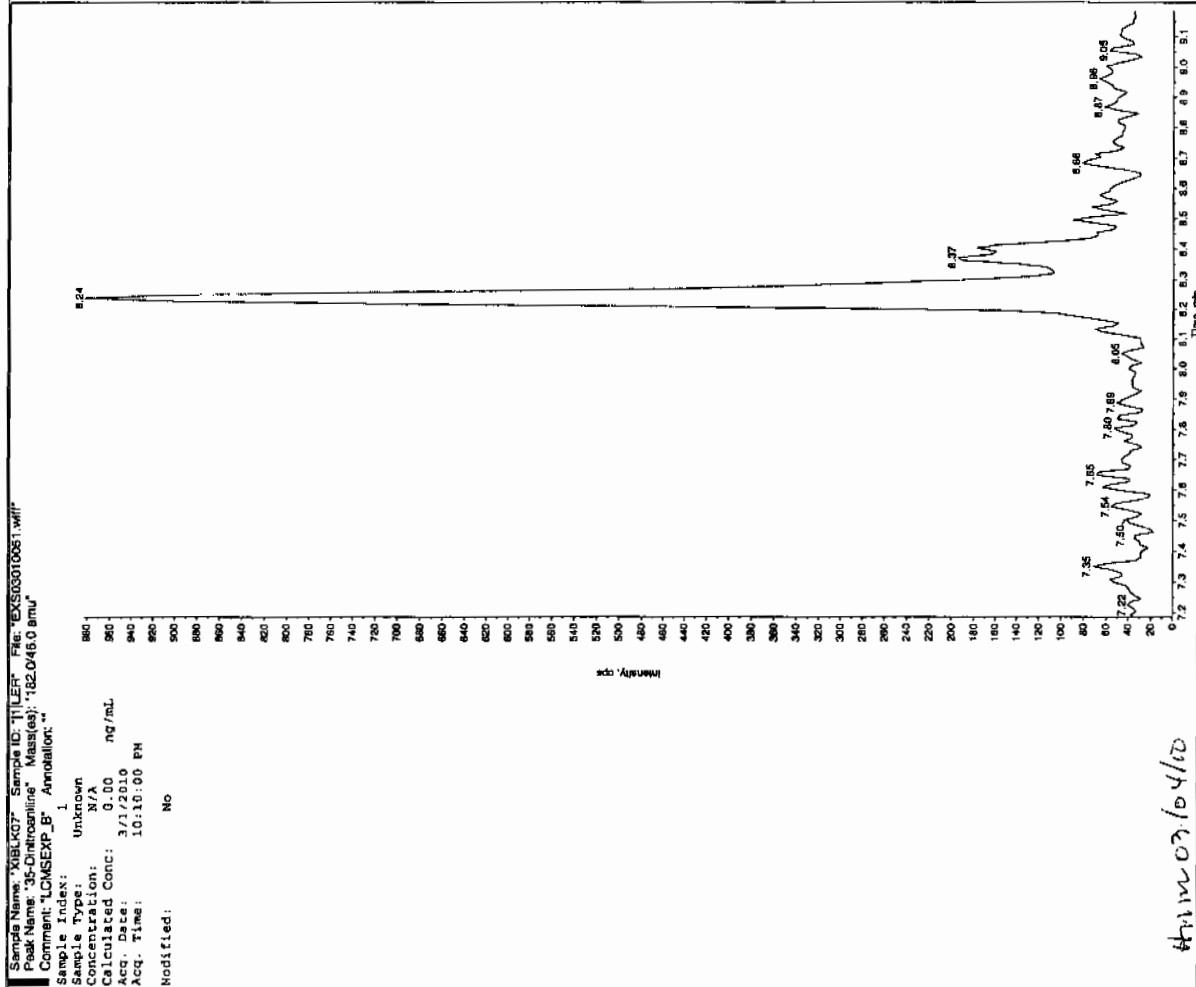
GEL Data File: EXS03010051.wiff

Instrument ID: LCMSMS

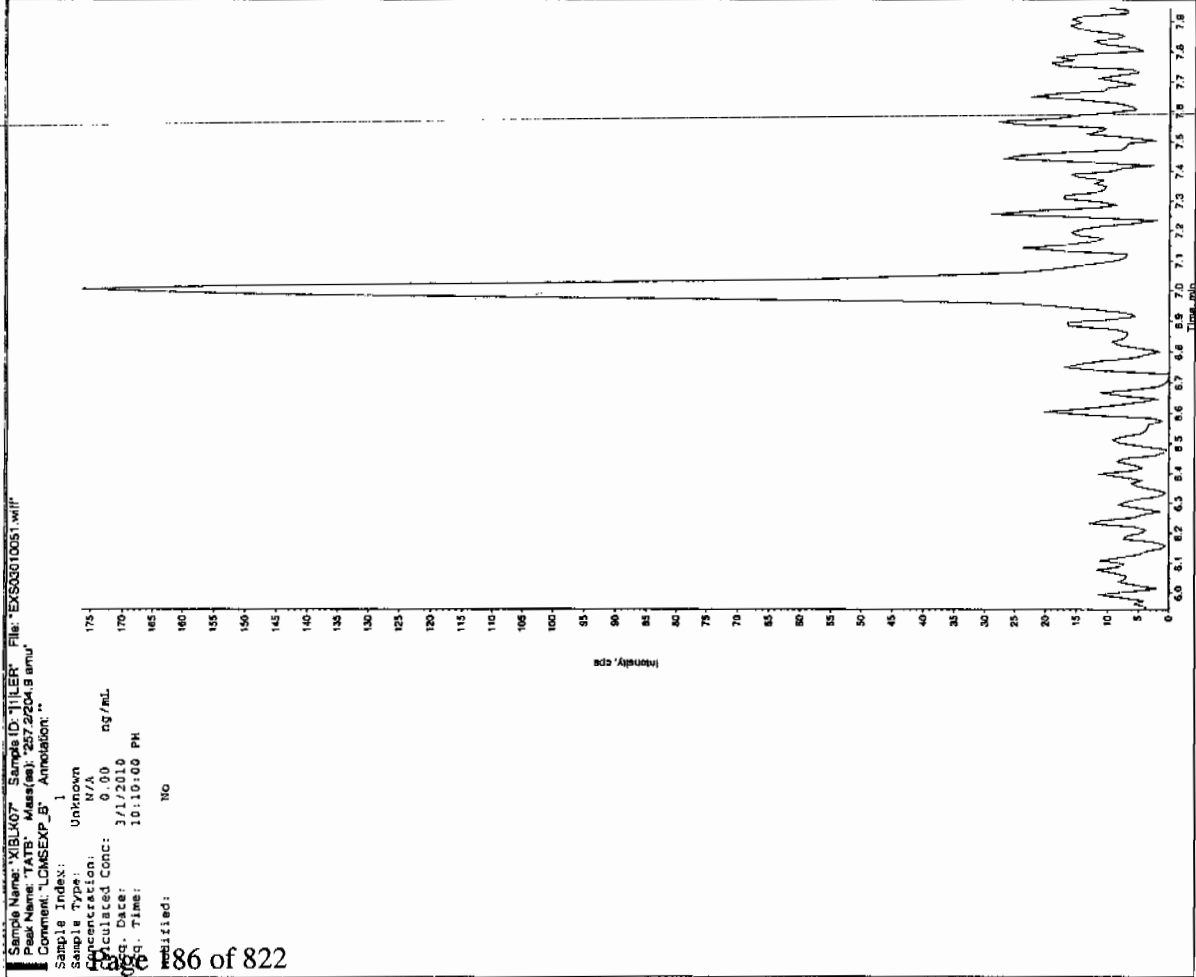
Column: Phenomenex Ultracarb 5u ODS(20)

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

for 31310



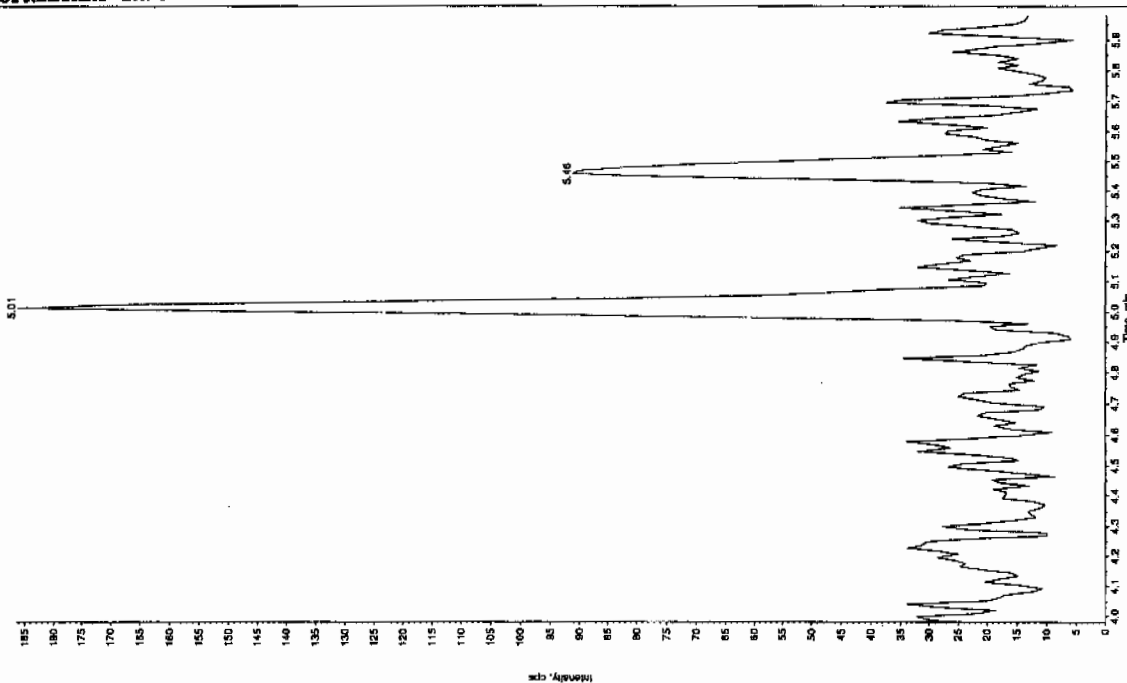
4/11/03/04/10



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

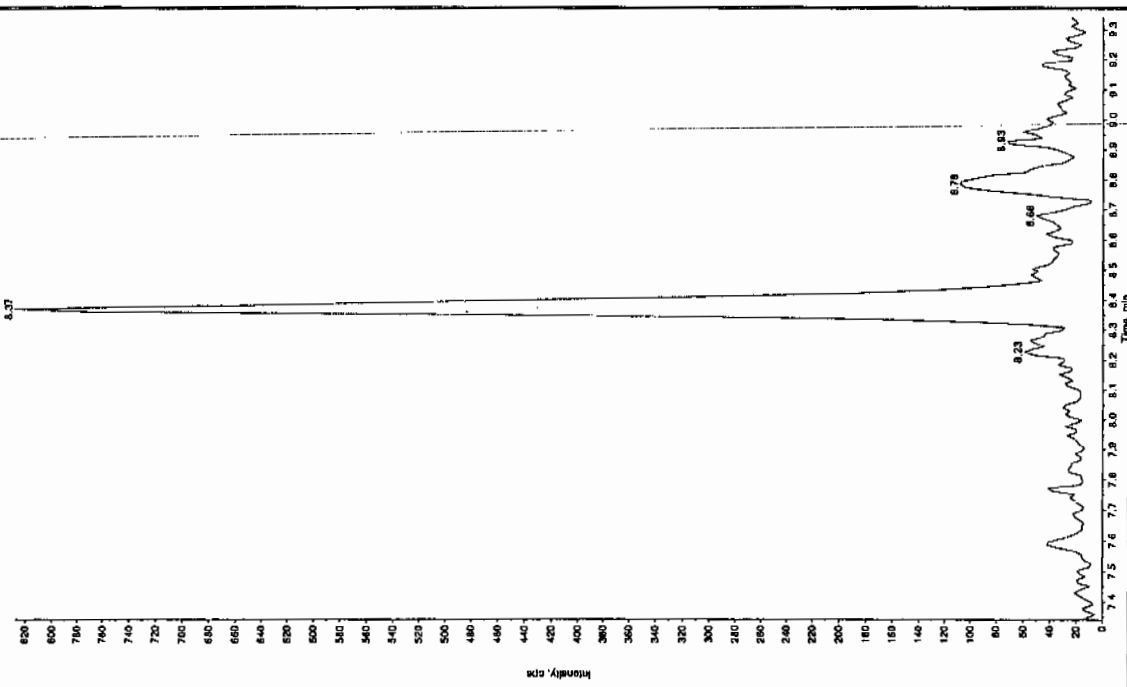
Sample Name: "XBLK07" Sample ID: "11LER" File: "EXS03010051.wif"  
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "169.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 10:10:00 PM  
 Modified: No

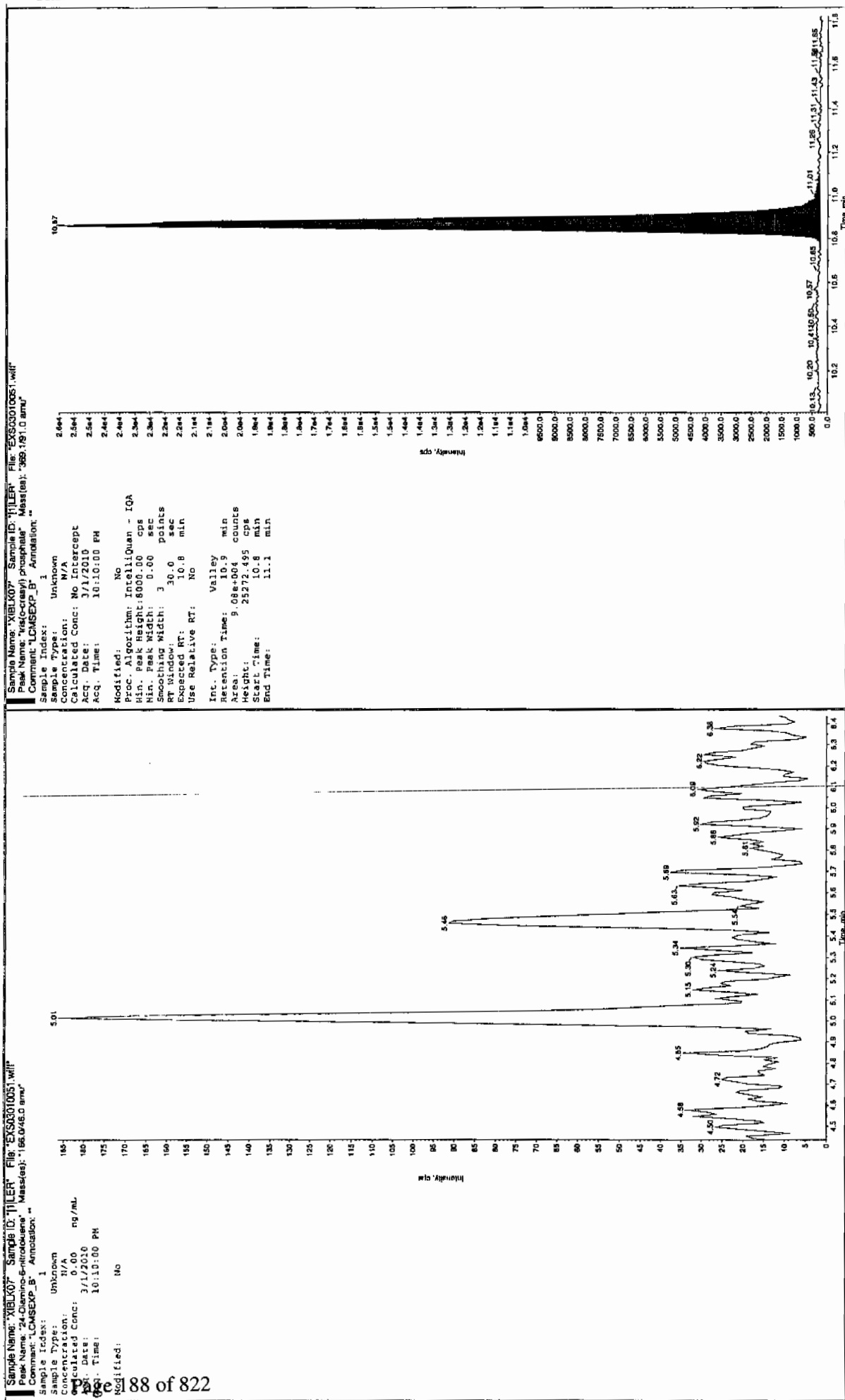


Sample Name: "XBLK07" Sample ID: "11LER" File: "EXS03010051.wif"  
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 10:10:00 PM  
 Modified: No







4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 02-MAR-10 01:34

GEL Data File: EXS03010064.wiff

Instrument ID: LCMSMS

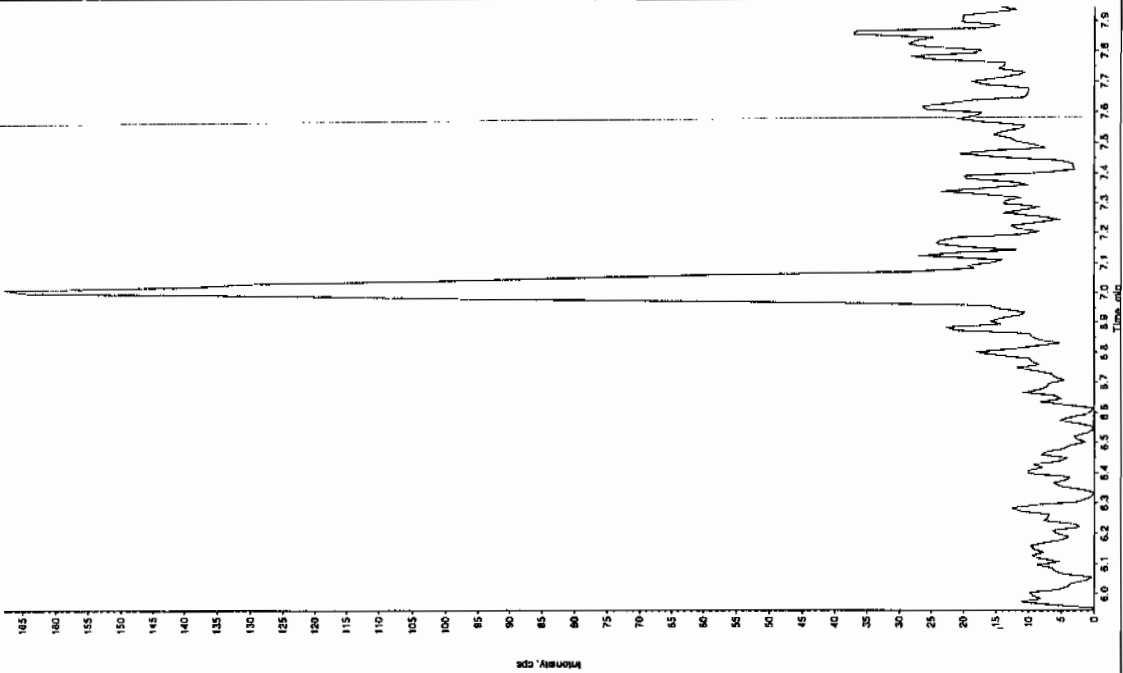
Column: Phenomenex Ultracarb 5u ODS(20)

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

Run 313110

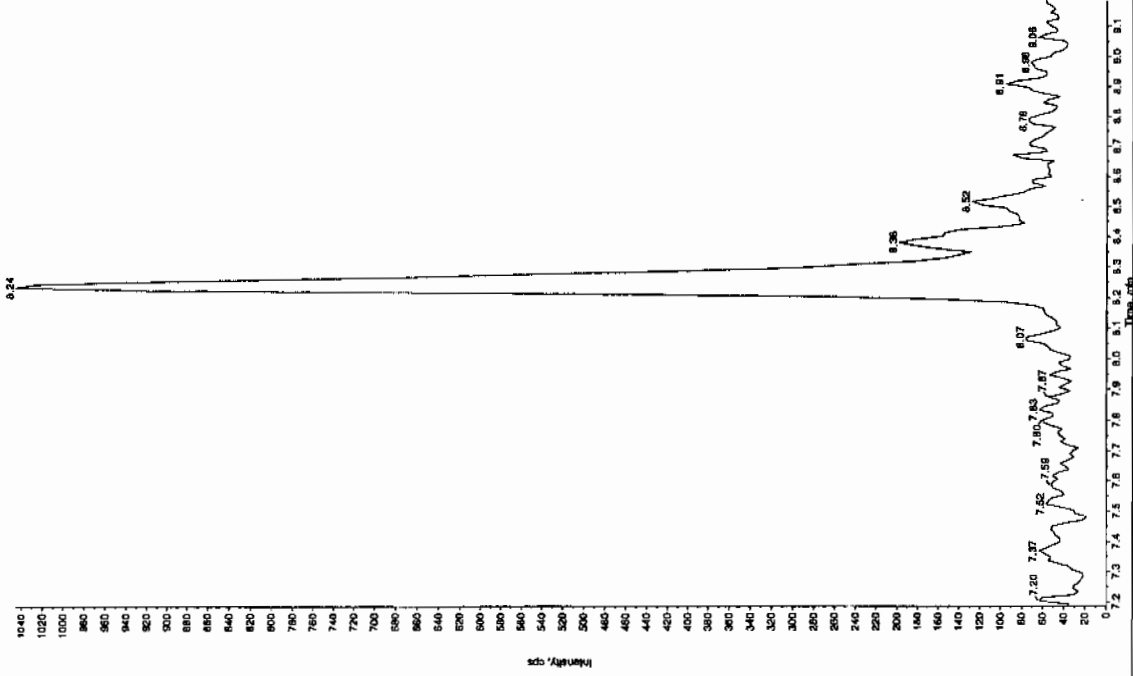
Sample Name: "XIBU08" Sample ID: "111ER" File: "EX03010064.wif"  
 Peak Name: "TATB" Mass(es): 257.2204.9 amu  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 1:34:36 AM  
 Modified: No

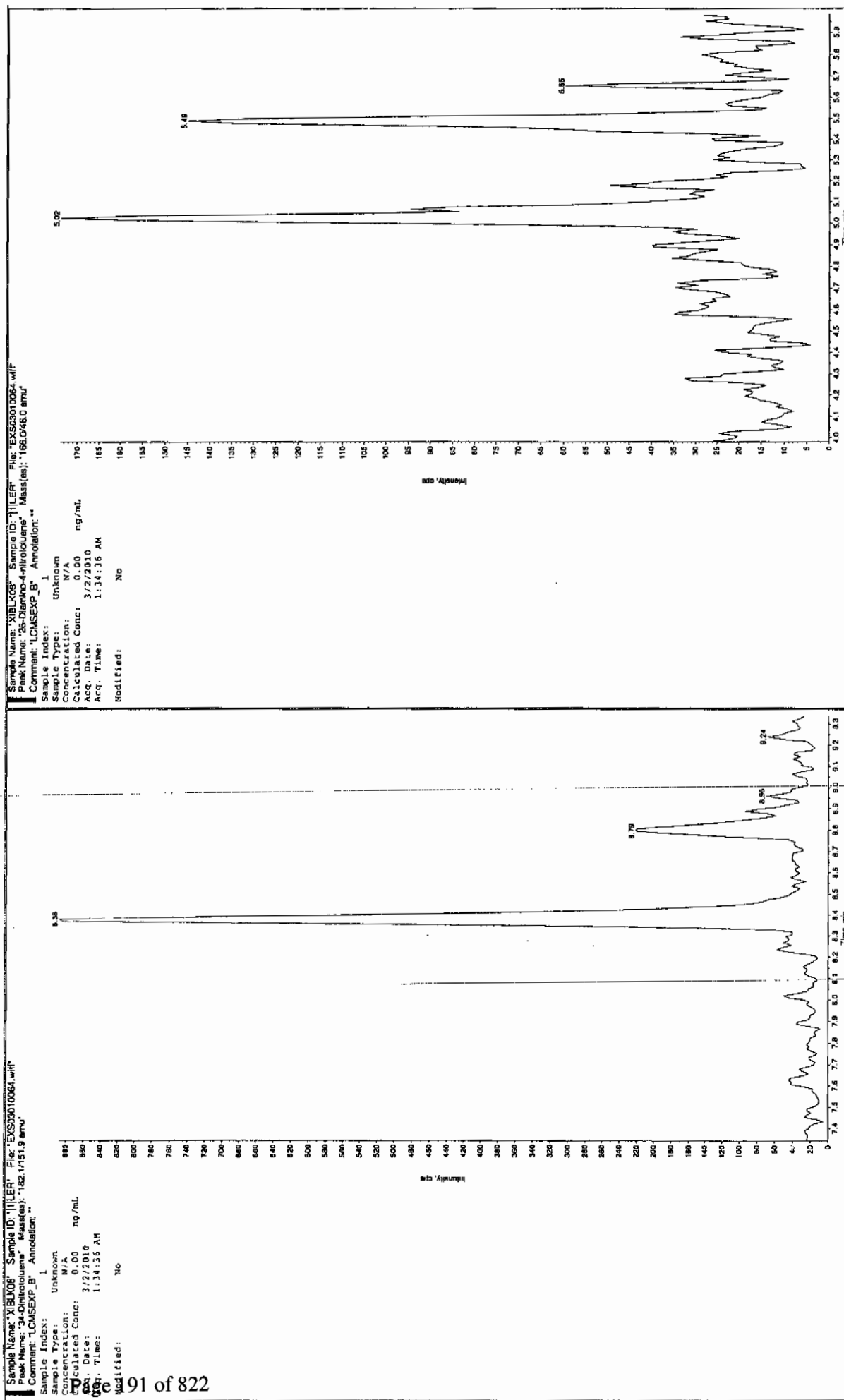


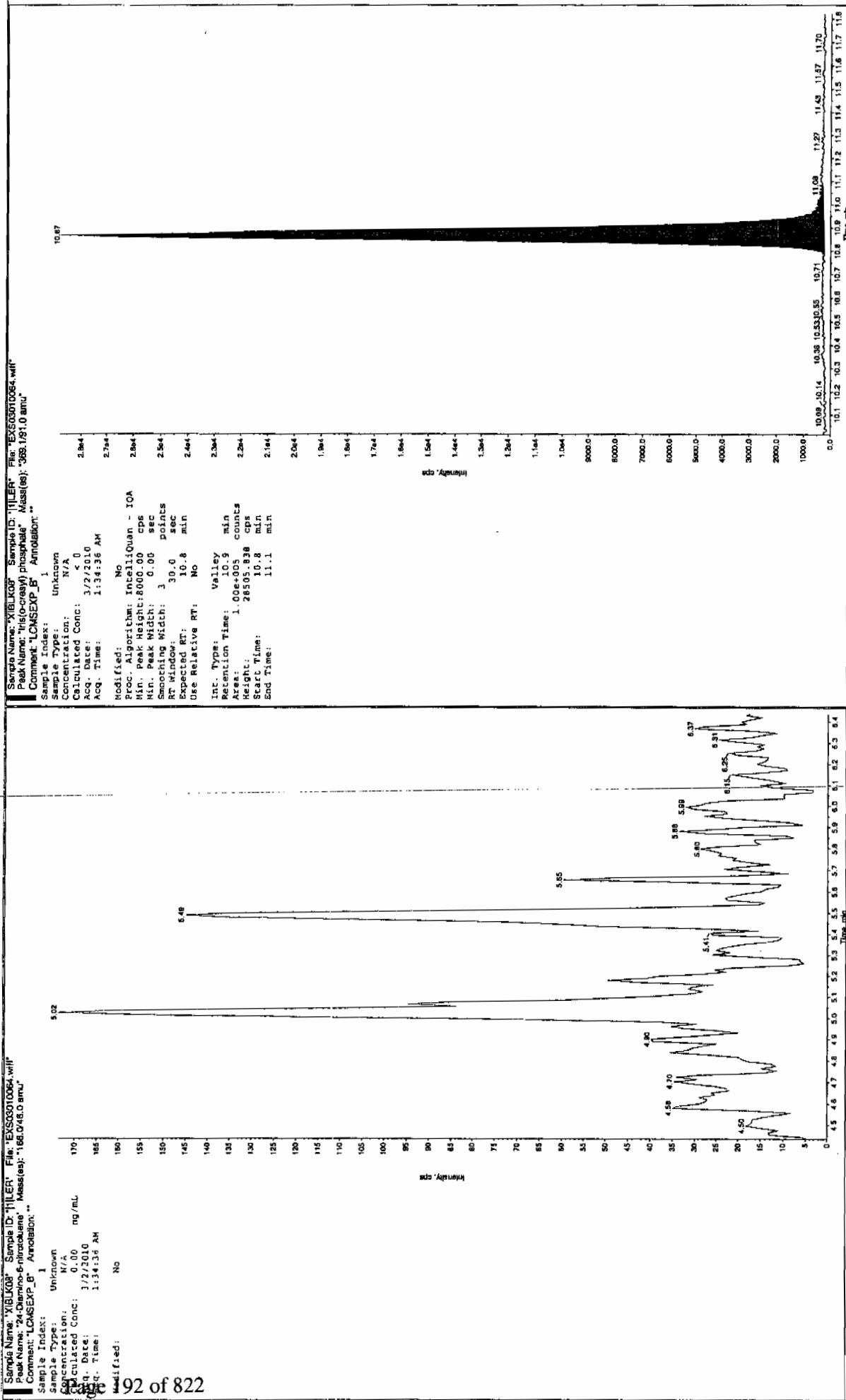
Sample Name: "XIBU08" Sample ID: "111ER" File: "EX03010064.wif"  
 Peak Name: "35-Dinitrophenol" Mass(es): 182.04610 amu  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 1:34:36 AM  
 Modified: No



Run 0310410





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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 02-MAR-10 04:27

GEL Data File: EXS03010075.wiff

Instrument ID: LCMSMS

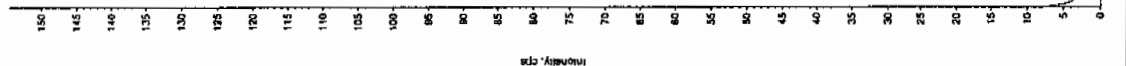
Column: Phenomenex Ultracarb 5u ODS(20)

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

for 3/3/10

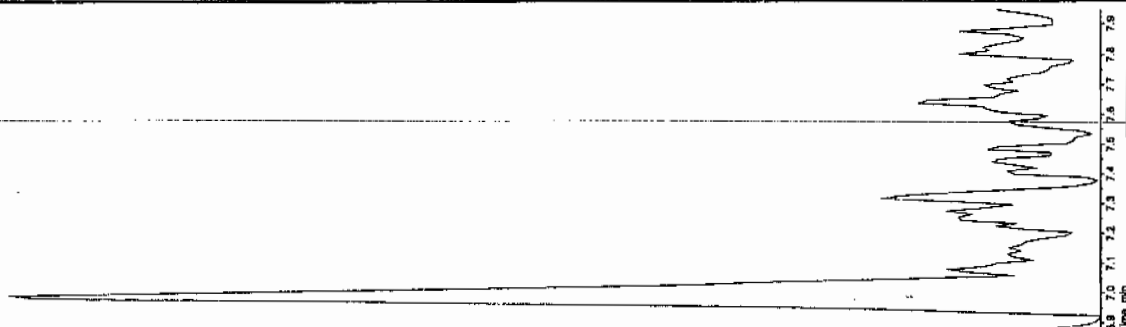
Sample Name: "XBLK09" Sample ID: "11LER" File: "EXS00010075.wif"  
 Peak Name: "TATB" Mass(es): "257.2049 amu"  
 Comment: "LCMSXP\_B" Annotation: "1"

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 4:27:45 AM  
 Modified: No



Sample Name: "XBLK09" Sample ID: "11LER" File: "EXS00010075.wif"  
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"  
 Comment: "LCMSXP\_B" Annotation: "1"

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 4:27:45 AM  
 Modified: No

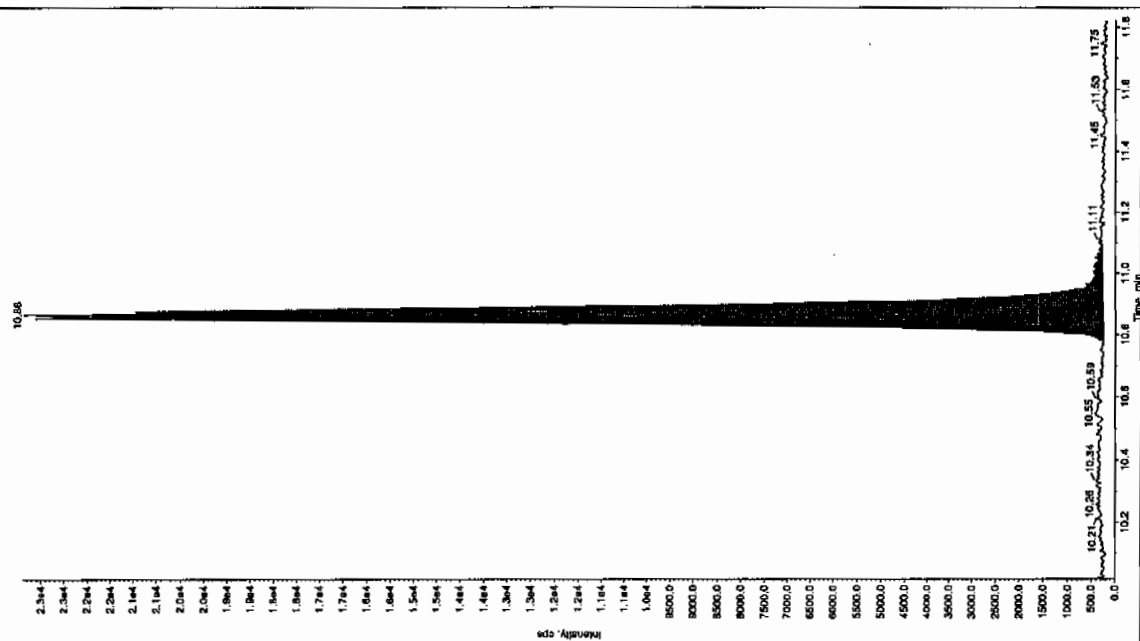


\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

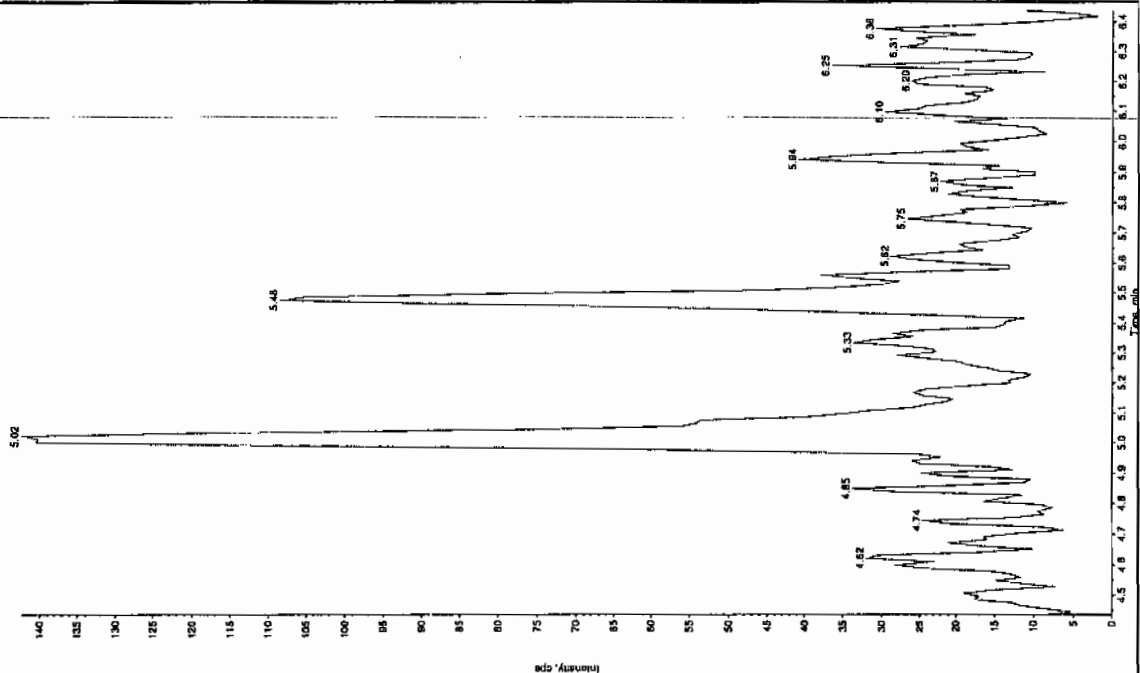
04/10







Sample Name: "XISLX09" Sample ID: "11LER" File: "EX03010075.wif"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"  
Comment: "LOMSEXP\_B" Annotation: ""



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 02-MAR-10 07:52

GEL Data File: EXS03010088.wiff

Instrument ID: LCMSMS

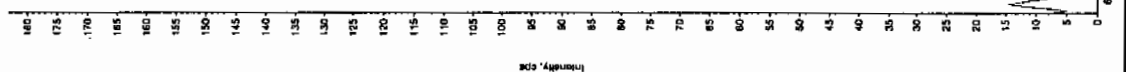
Column: Phenomenex Ultracarb 5u ODS(20)

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

for 3/2/10

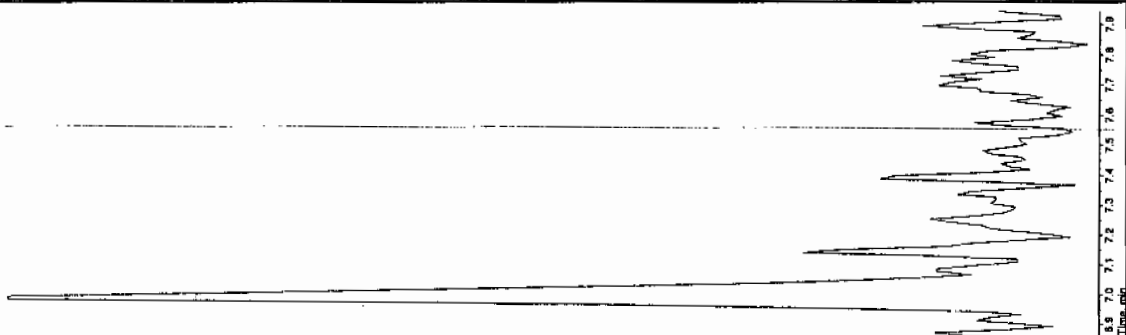
Sample Name: "XIBLK10" Sample ID: "JILERR" File: "EX503010088.will"  
 Peak Name: "TATS" Mass(es): "257.2204.9 amu"  
 Compound: "LCMSExp\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 7:52:21 AM  
 Modified: No



Sample Name: "XIBLK10" Sample ID: "JILERR" File: "EX503010088.will"  
 Peak Name: "35-Chlorocaine" Mass(es): "182.0460 amu"  
 Compound: "LCMSExp\_B" Annotation: "

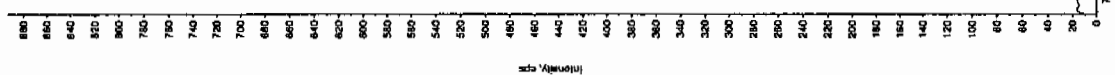
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 7:52:21 AM  
 Modified: No



Run 03/04/10

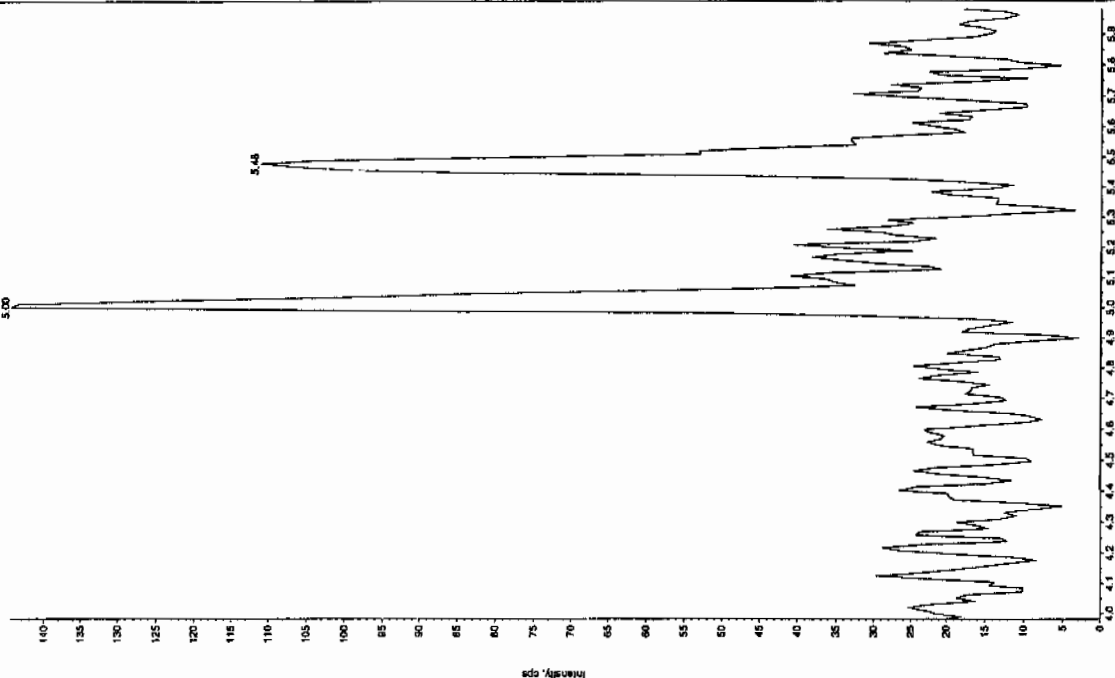
Sample Name: "XBLK10" Sample ID: "111ER" File: "EXS03010088.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

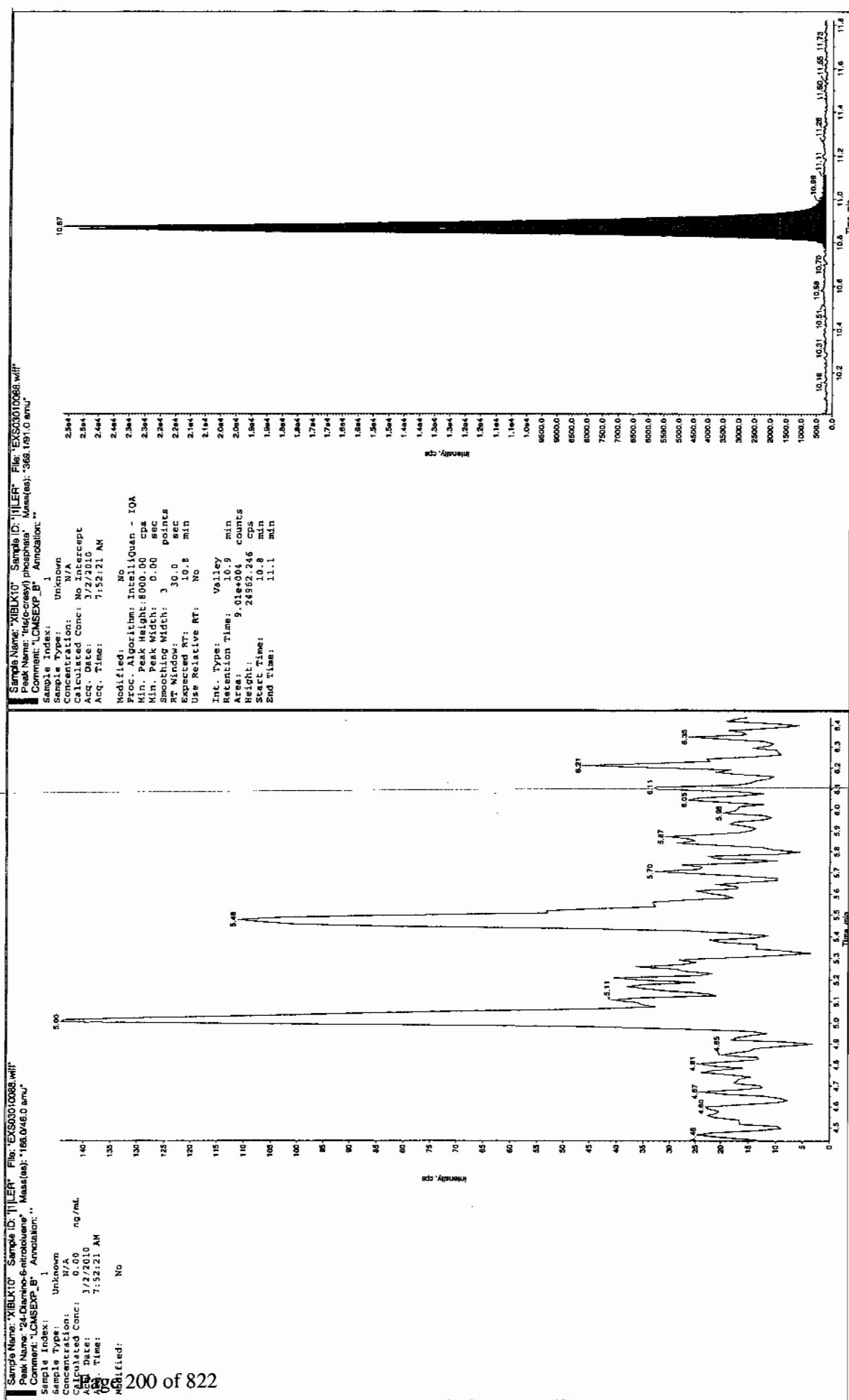
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A ng/mL  
 Calculated Conc: 3/2/2010  
 Acq. Date: 7/52/21 AM  
 Acq. Time: 7:52:21 AM  
 Modified: No



Sample Name: "XBLK10" Sample ID: "111ER" File: "EXS03010088.wif"  
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/166.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A ng/mL  
 Calculated Conc: 3/2/2010  
 Acq. Date: 7/52/21 AM  
 Acq. Time: 7:52:21 AM  
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 02-MAR-10 11:17

GEL Data File: EXS03010101.wiff

Instrument ID: LCMSMS

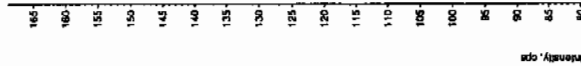
Column: Phenomenex Ultracarb 5u ODS(20)

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

01/15/10  
JAN 23/10

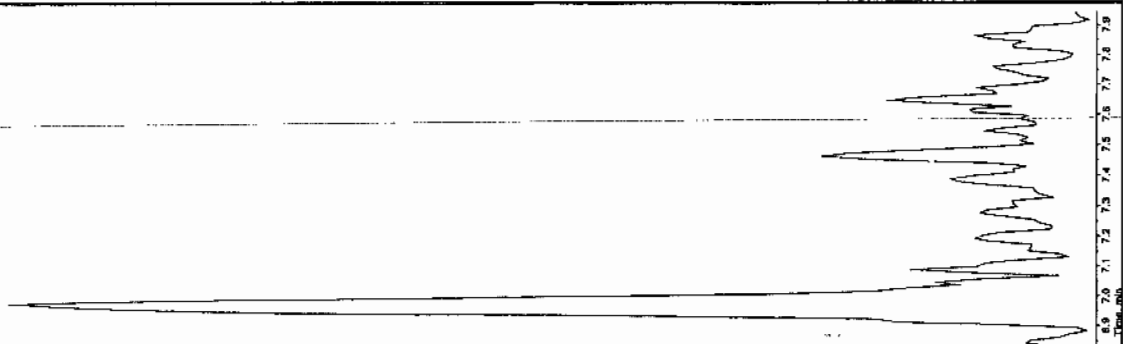
Sample Name: "XBLK11" Sample ID: "TILER" File: "EX503010101.wif"  
Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/23/2010  
Acq. Time: 11:17:09 AM  
Modified: No

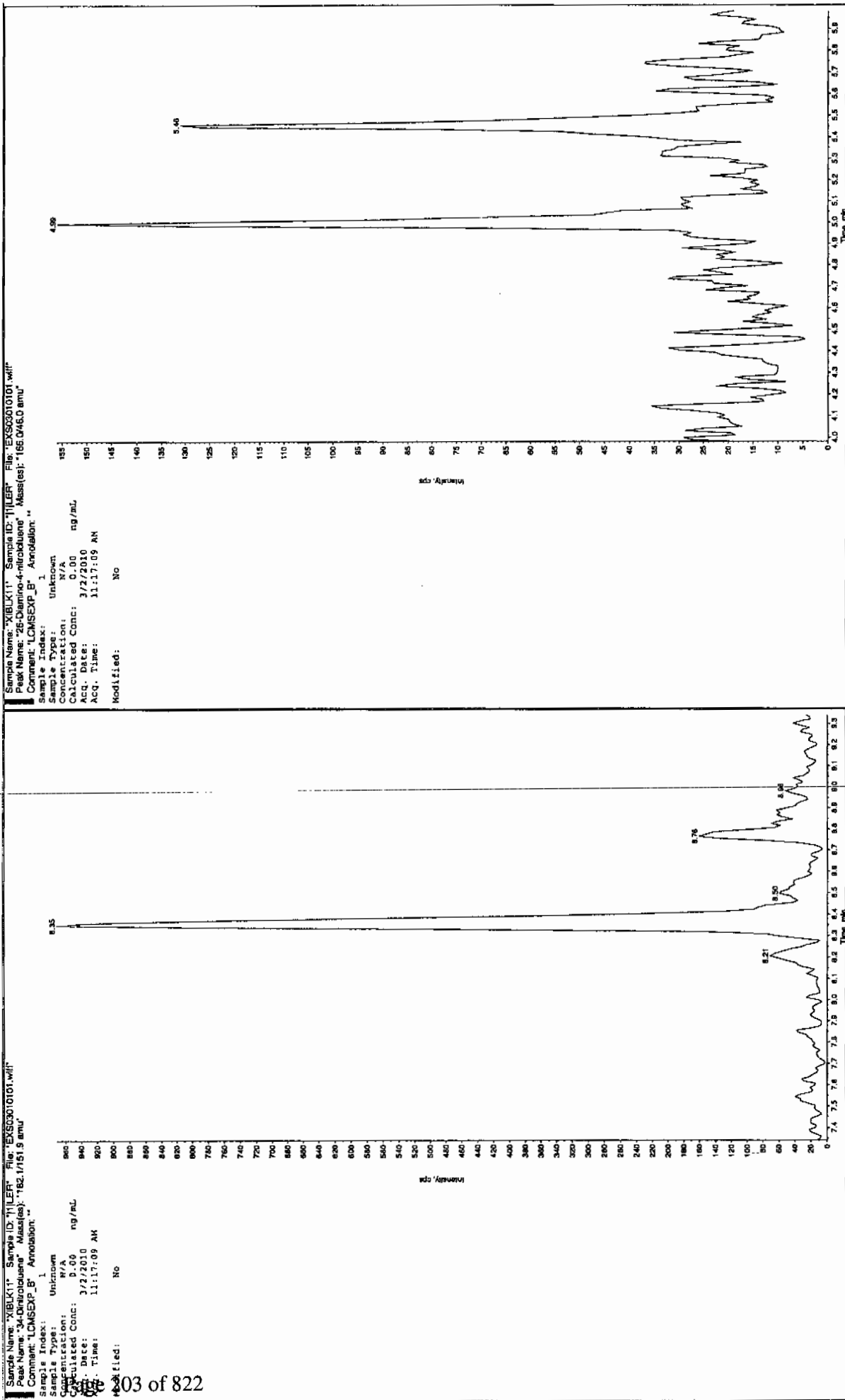


Sample Name: "XBLK11" Sample ID: "TILER" File: "EX503010101.wif"  
Peak Name: "3S-Dinitroaniline" Mass(es): "192.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

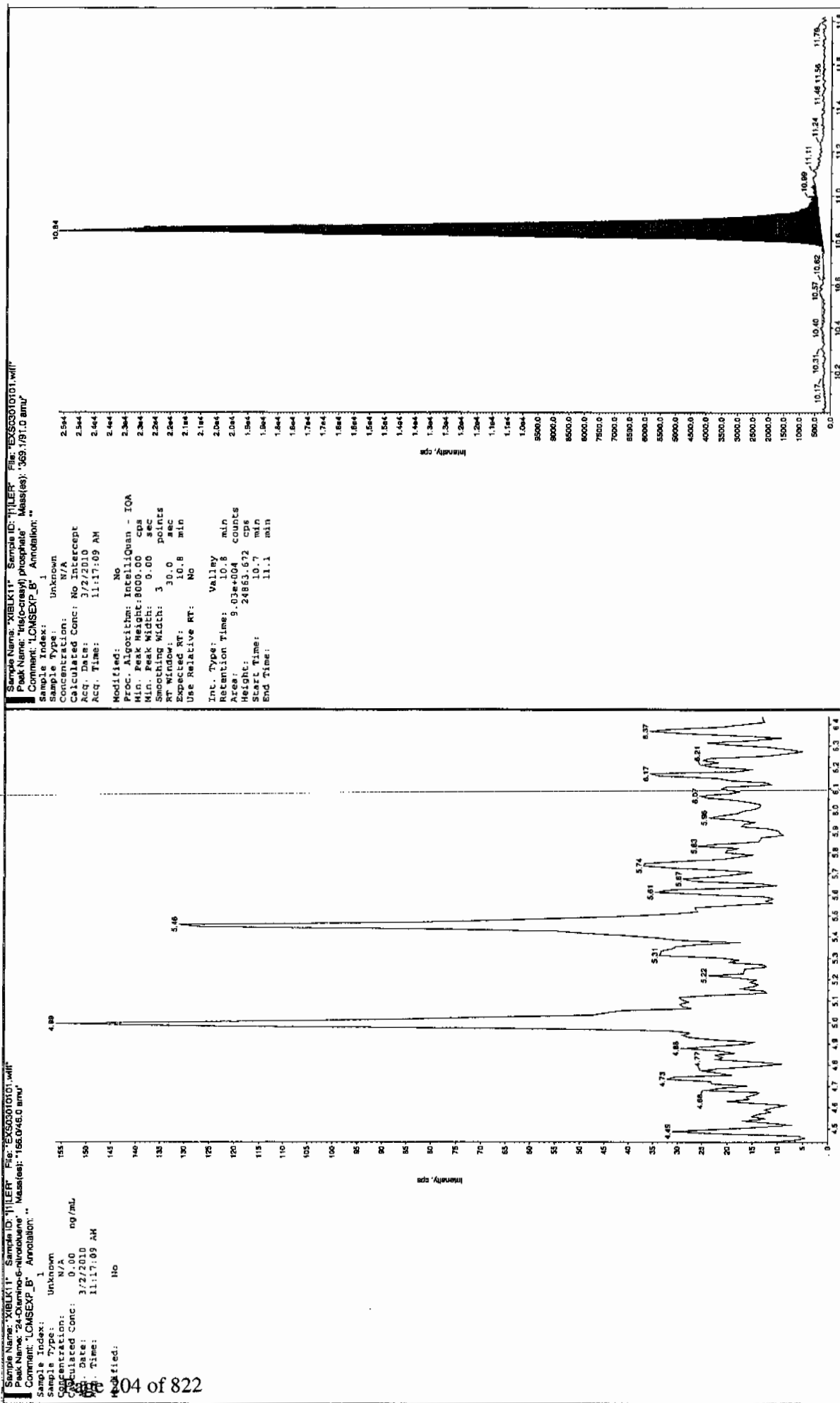
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/23/2010  
Acq. Time: 11:17:09 AM  
Modified: No



4/10/03/04/10







4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 02-MAR-10 12:20

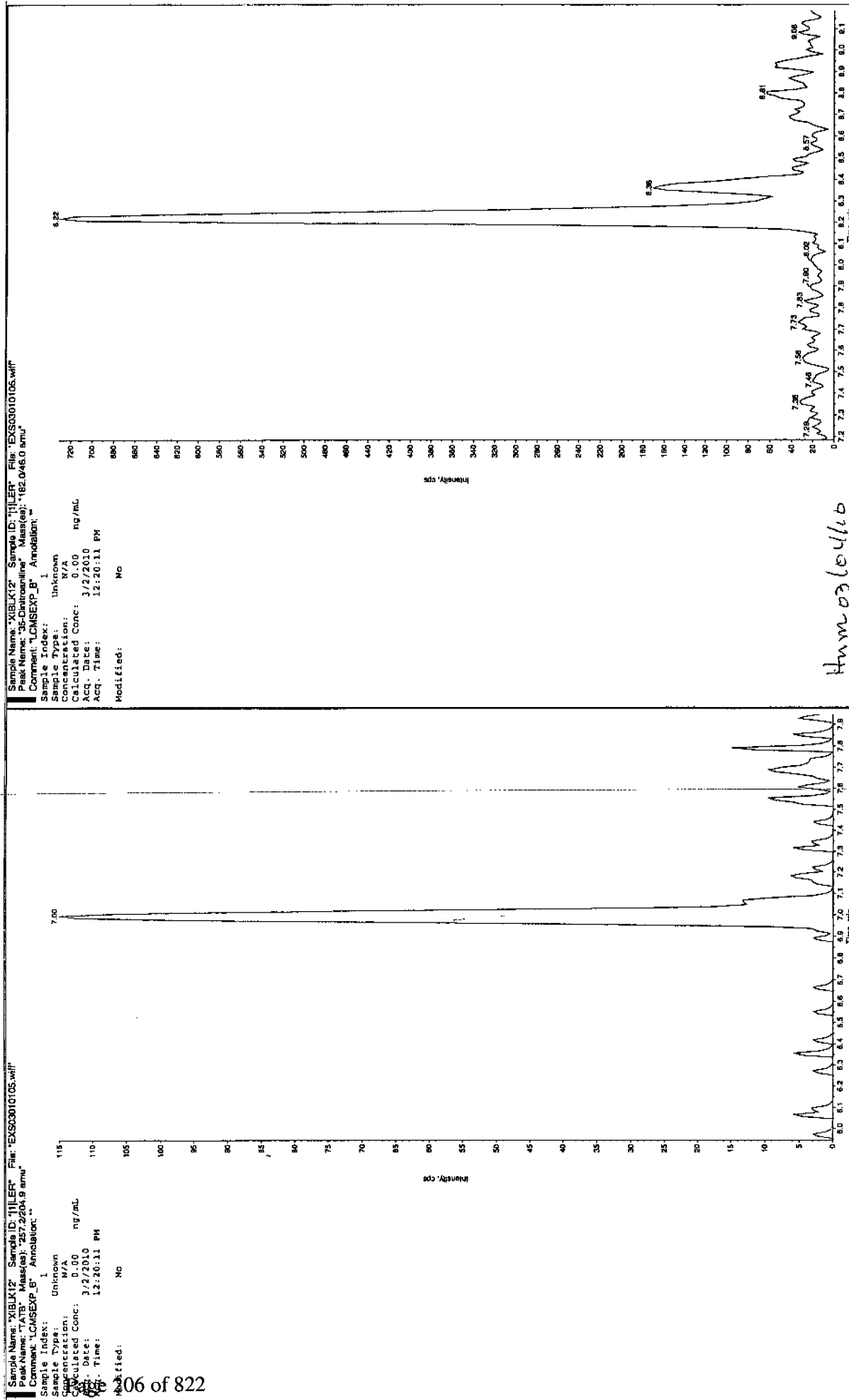
GEL Data File: EXS03010105.wiff

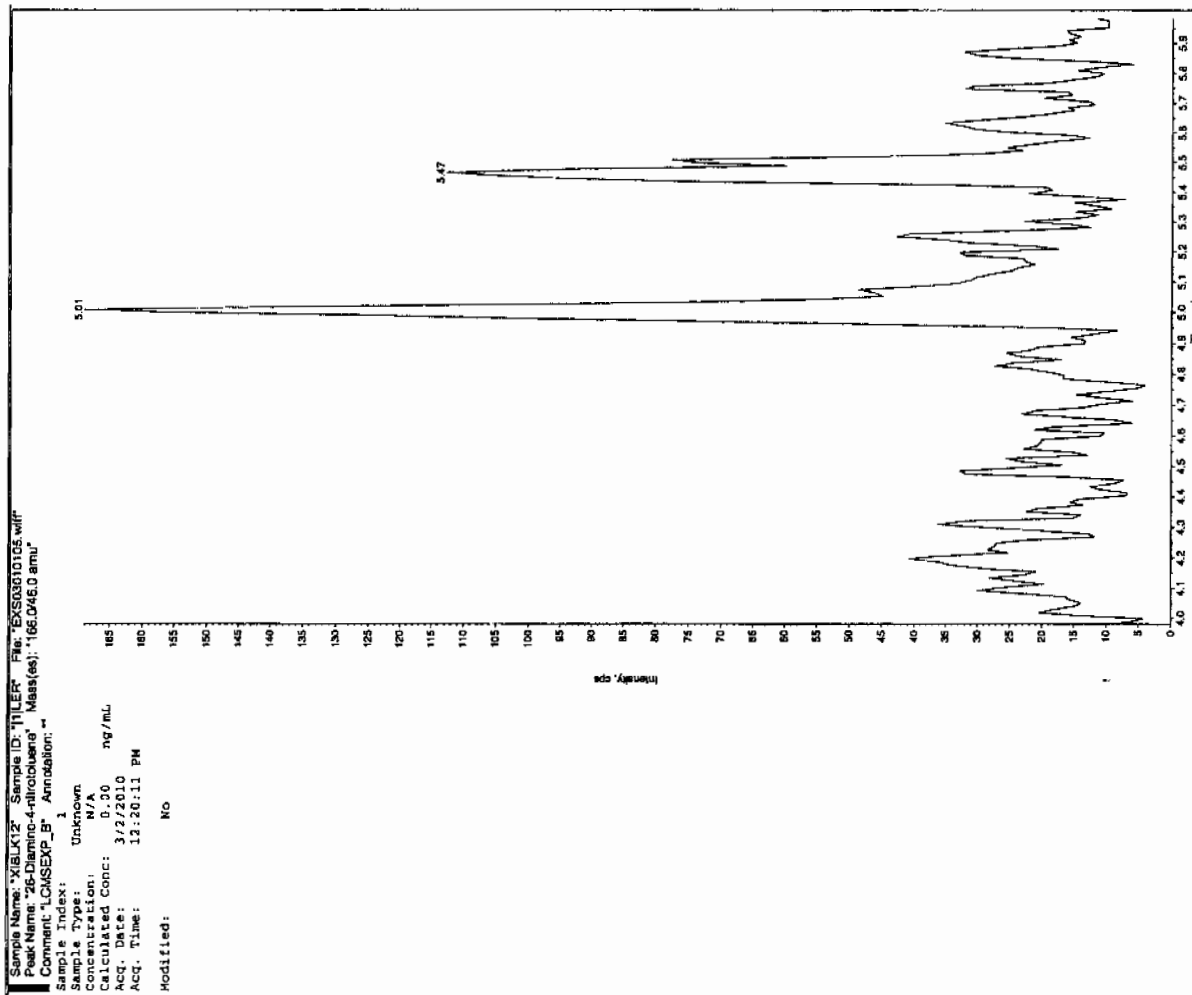
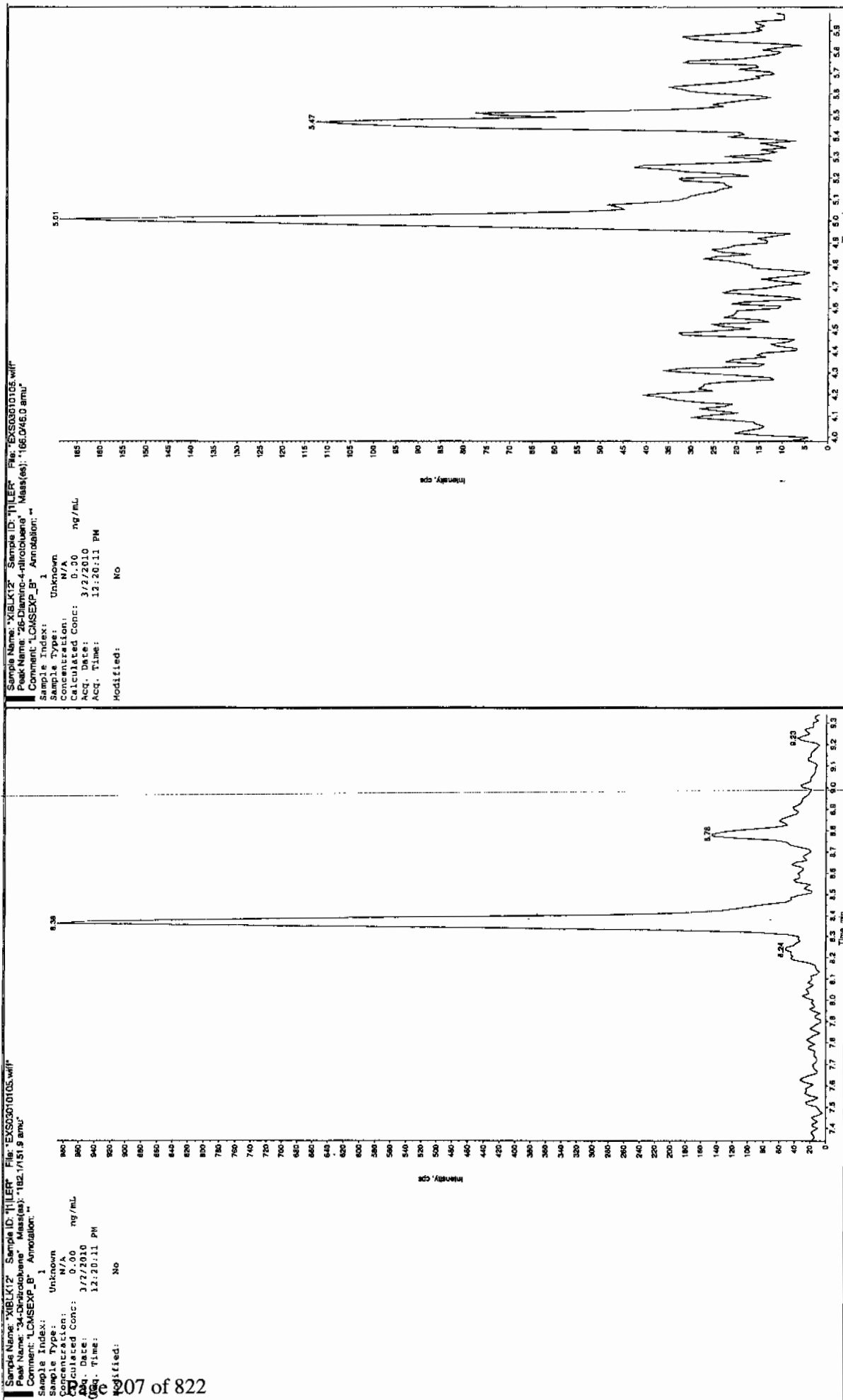
Instrument ID: LCMSMS

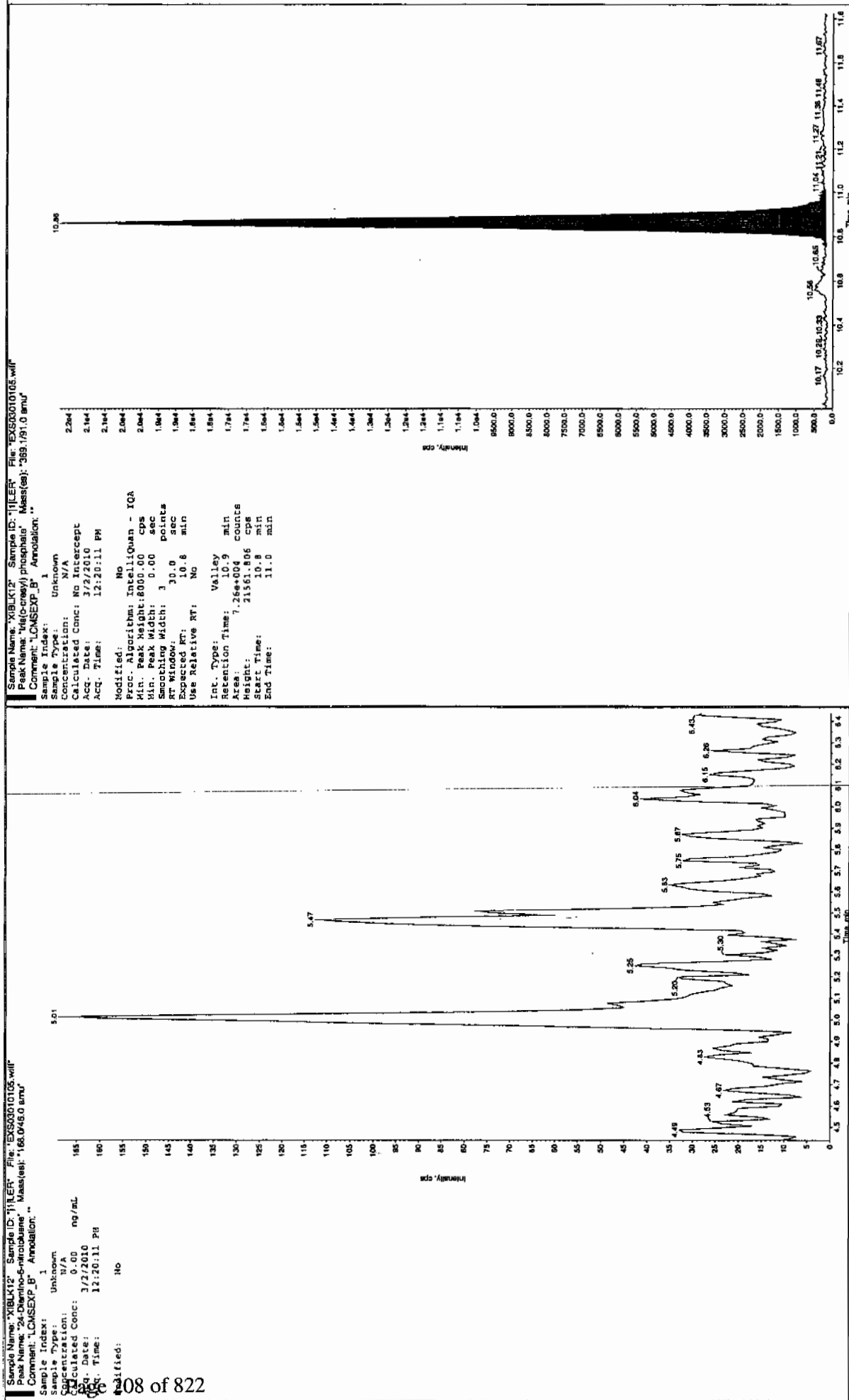
Column: Phenomenex Ultracarb 5u ODS(20)

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

2011/3/21/10







4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 02-MAR-10 14:10

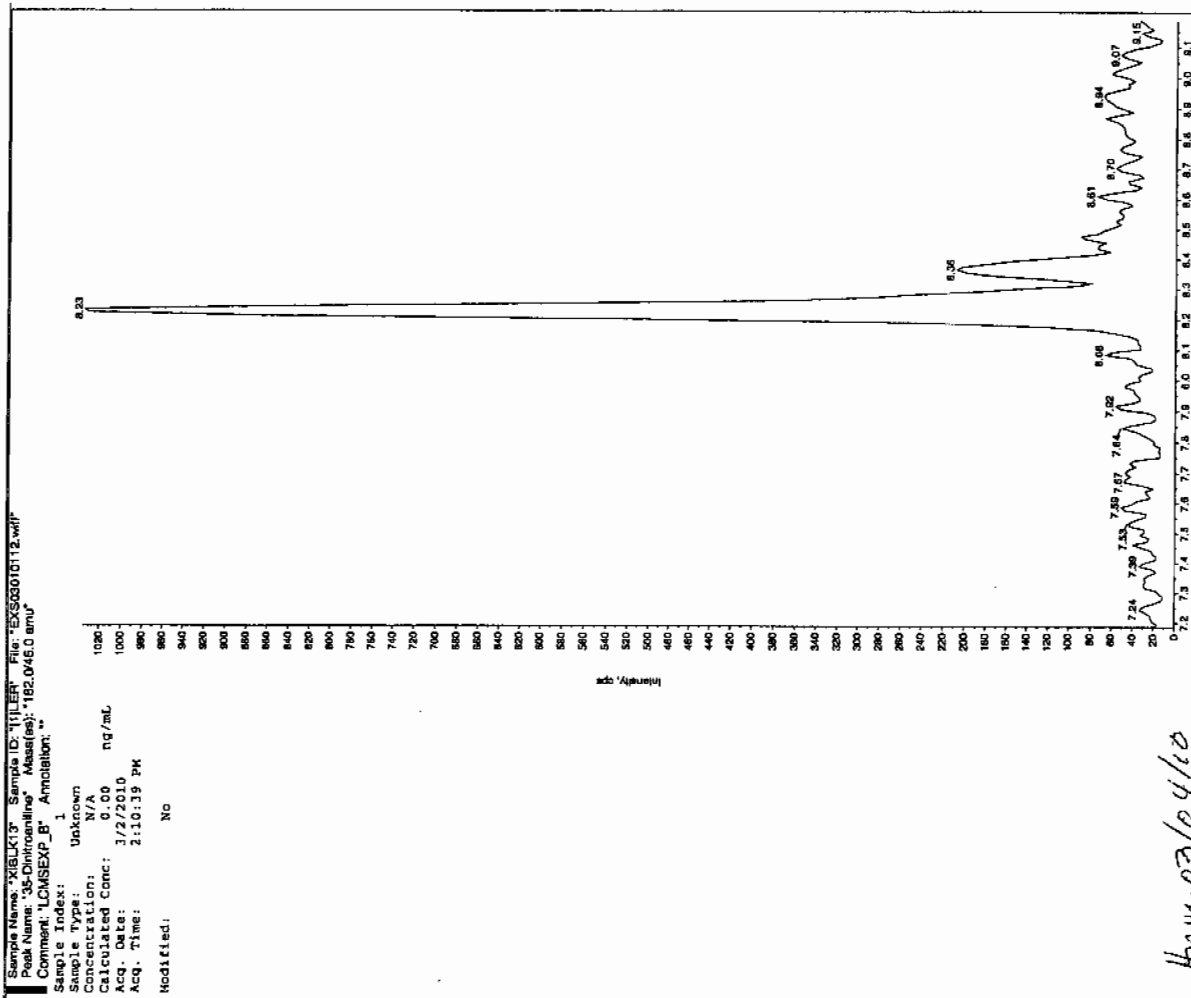
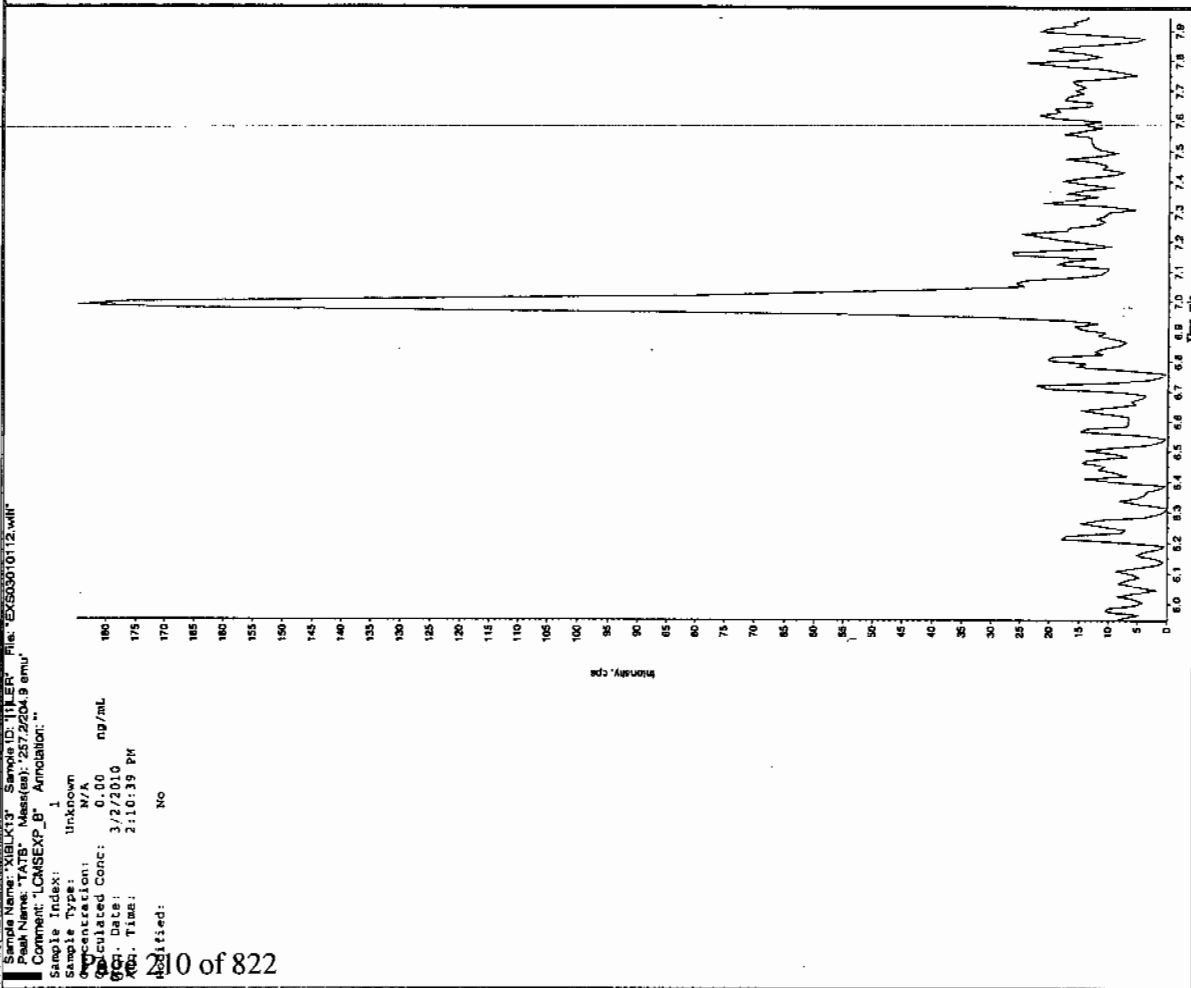
GEL Data File: EXS03010112.wiff

Instrument ID: LCMSMS

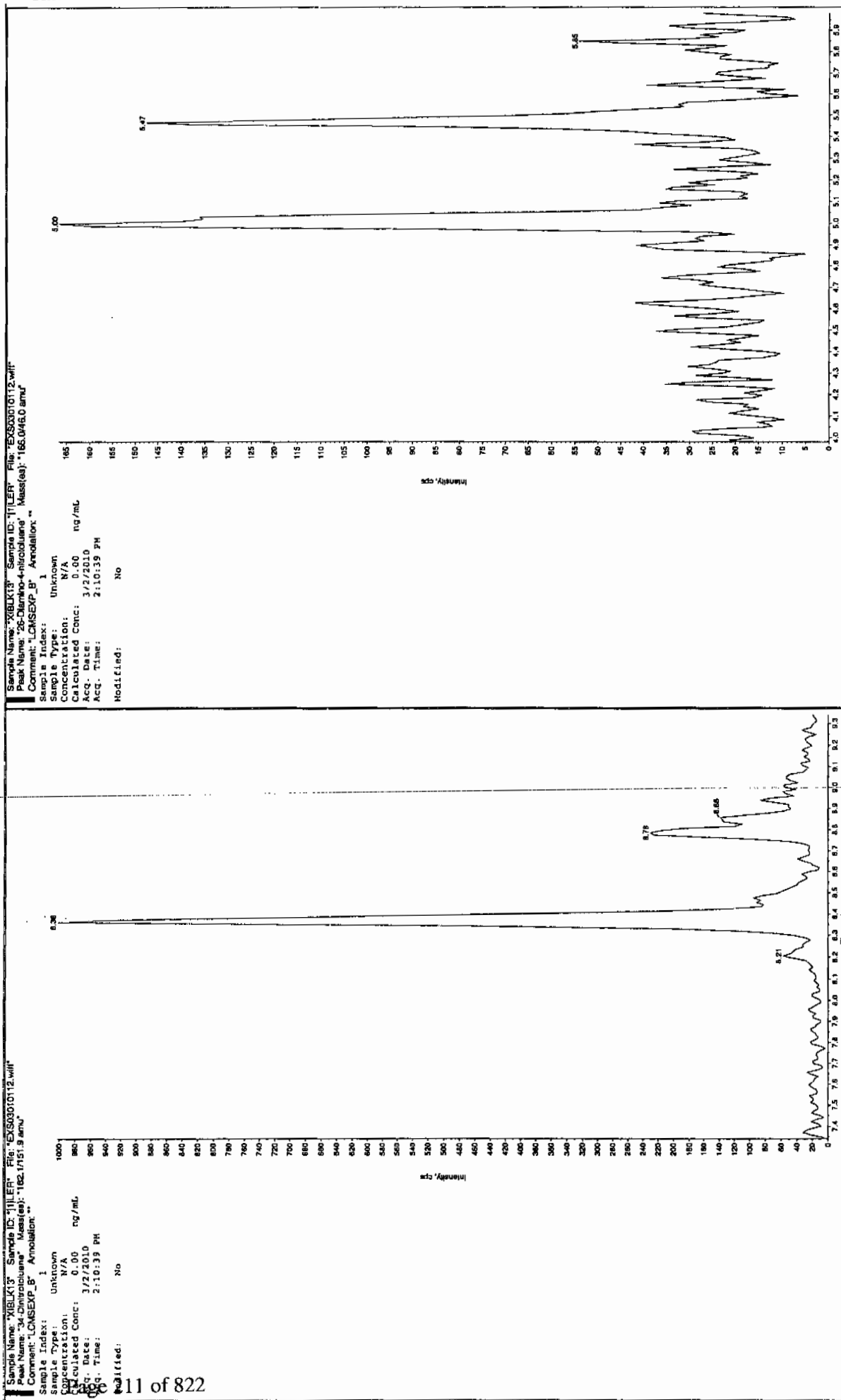
Column: Phenomenex Ultracarb 5u ODS(20)

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

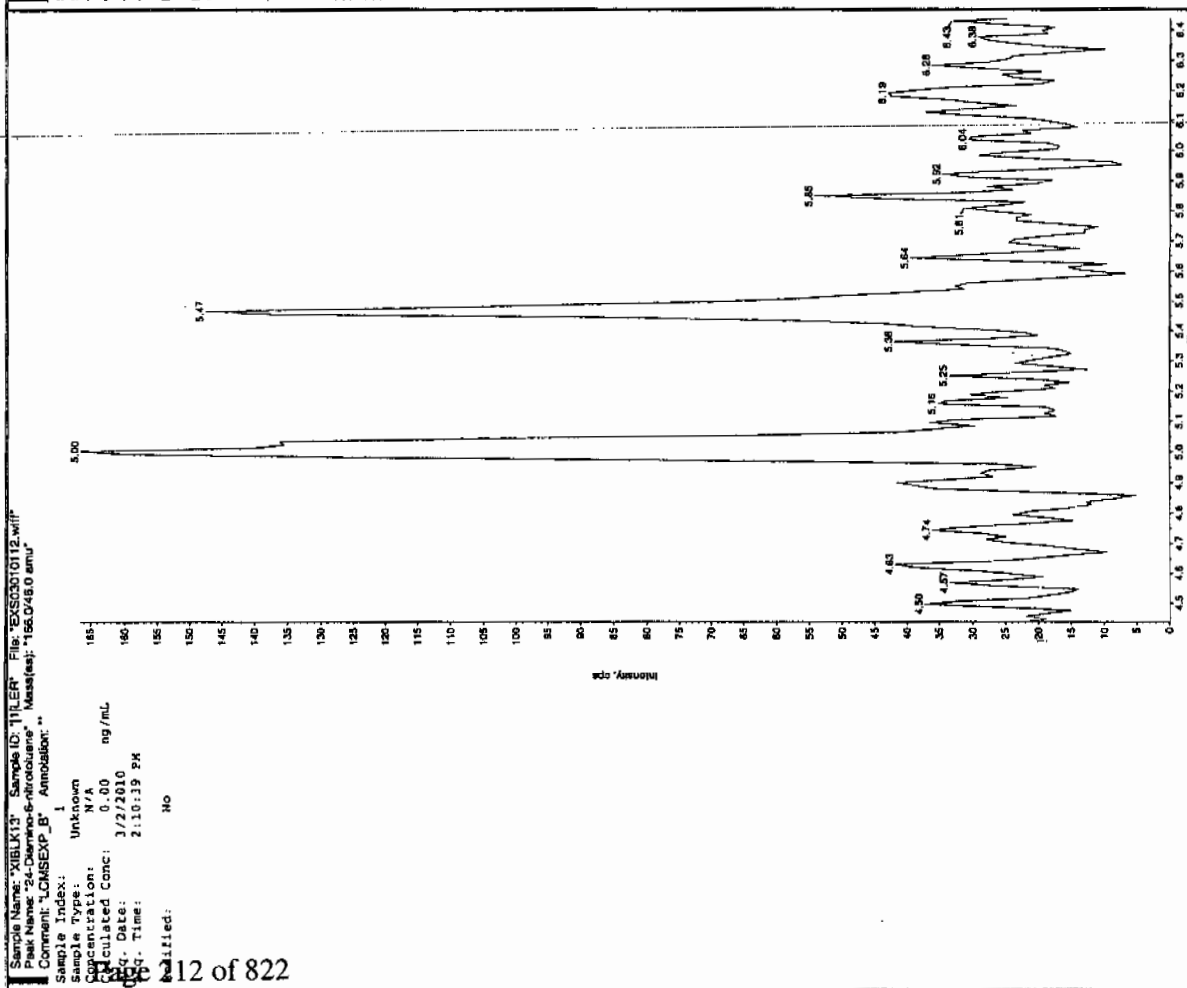
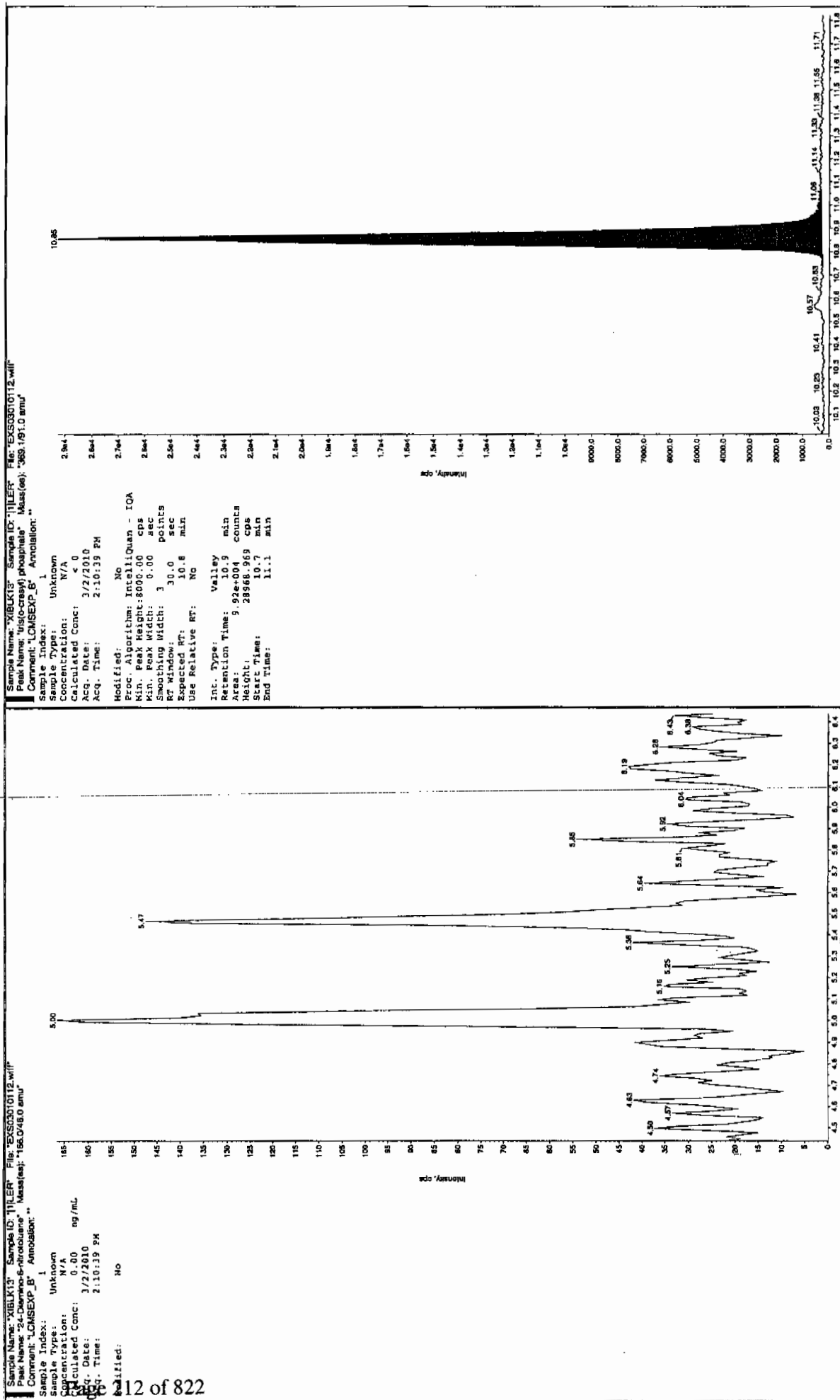
01/13/2010



01/13/2010







4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1564

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 02-MAR-10 17:35

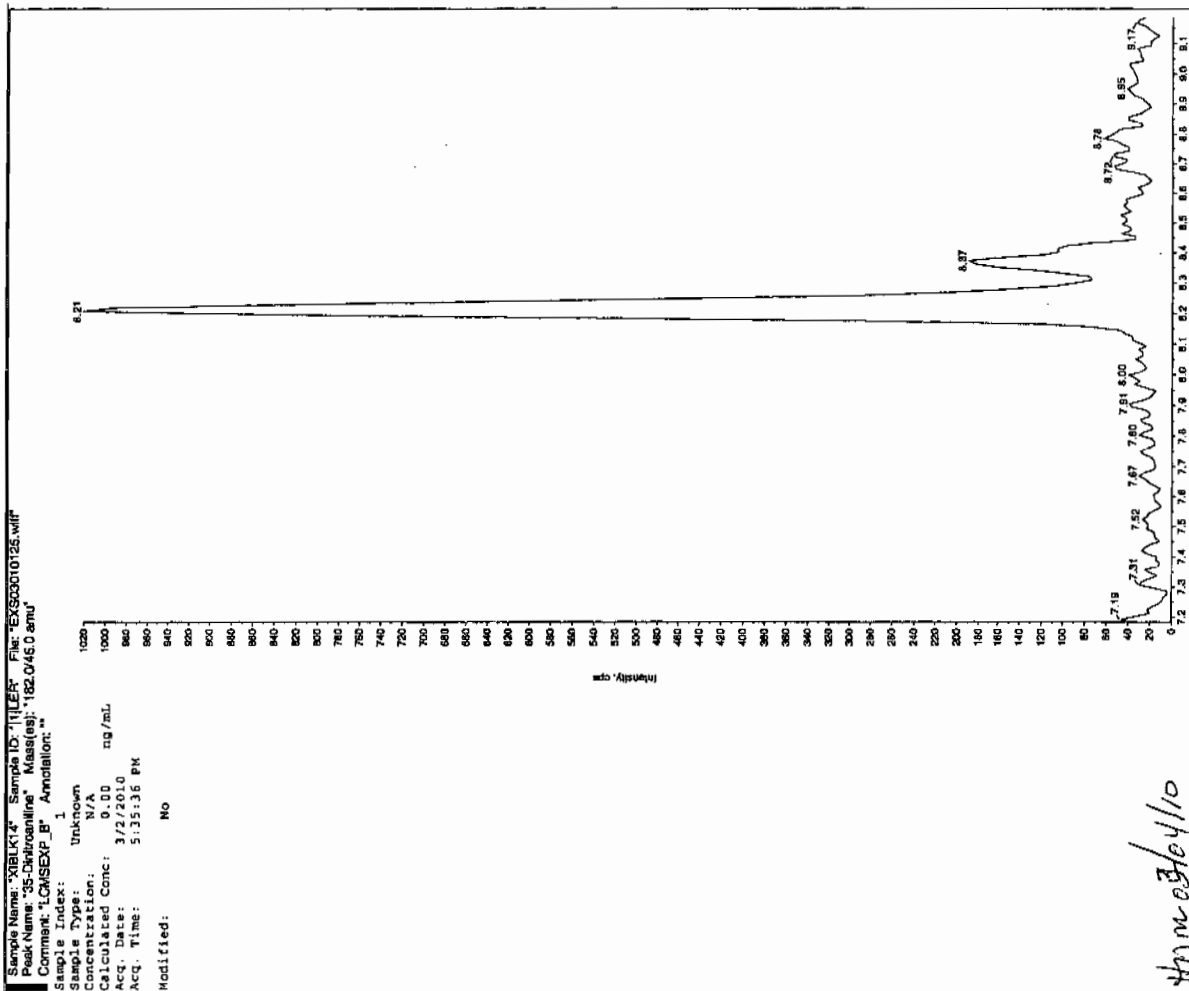
GEL Data File: EXS03010125.wiff

Instrument ID: LCMSMS

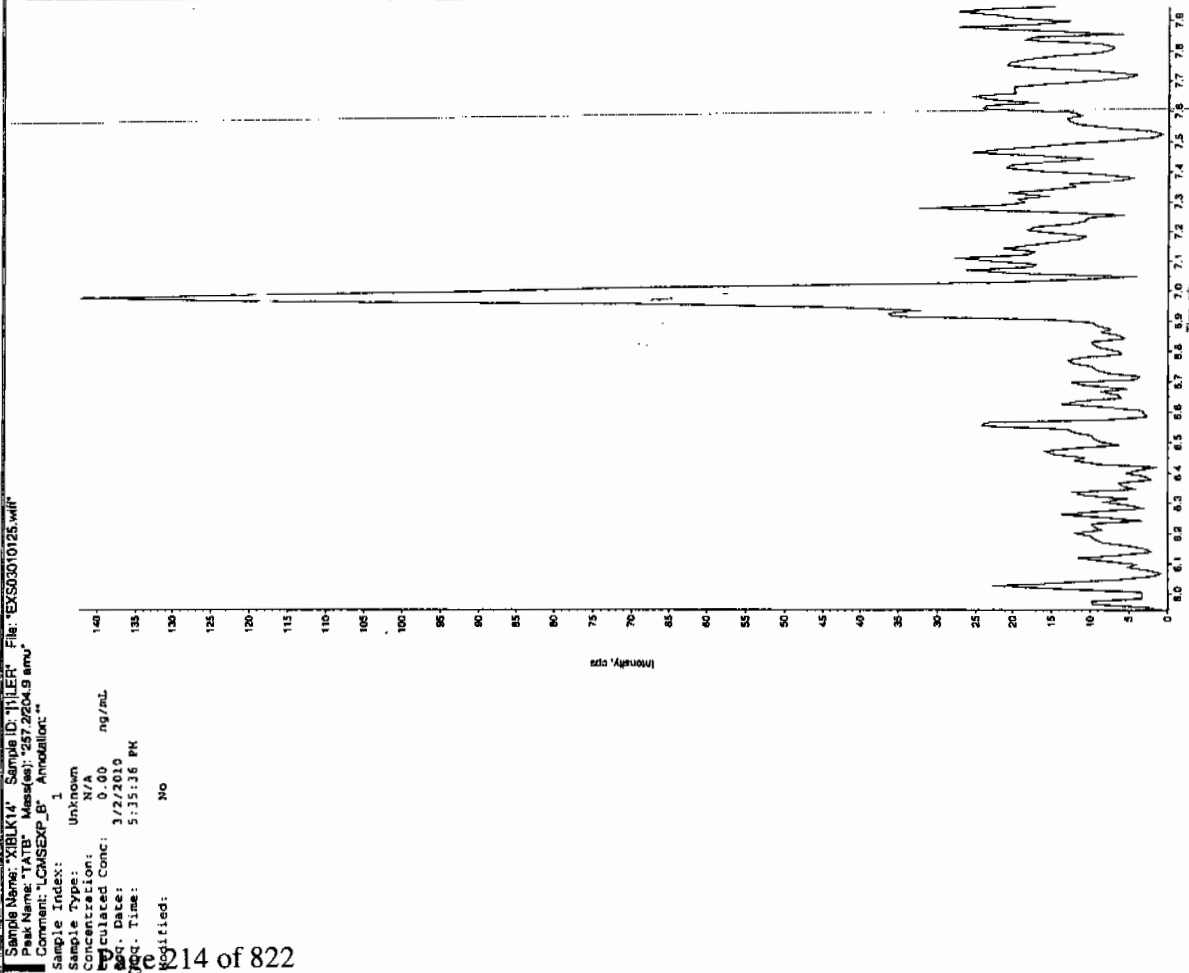
Column: Phenomenex Ultracarb 5u ODS(20)

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

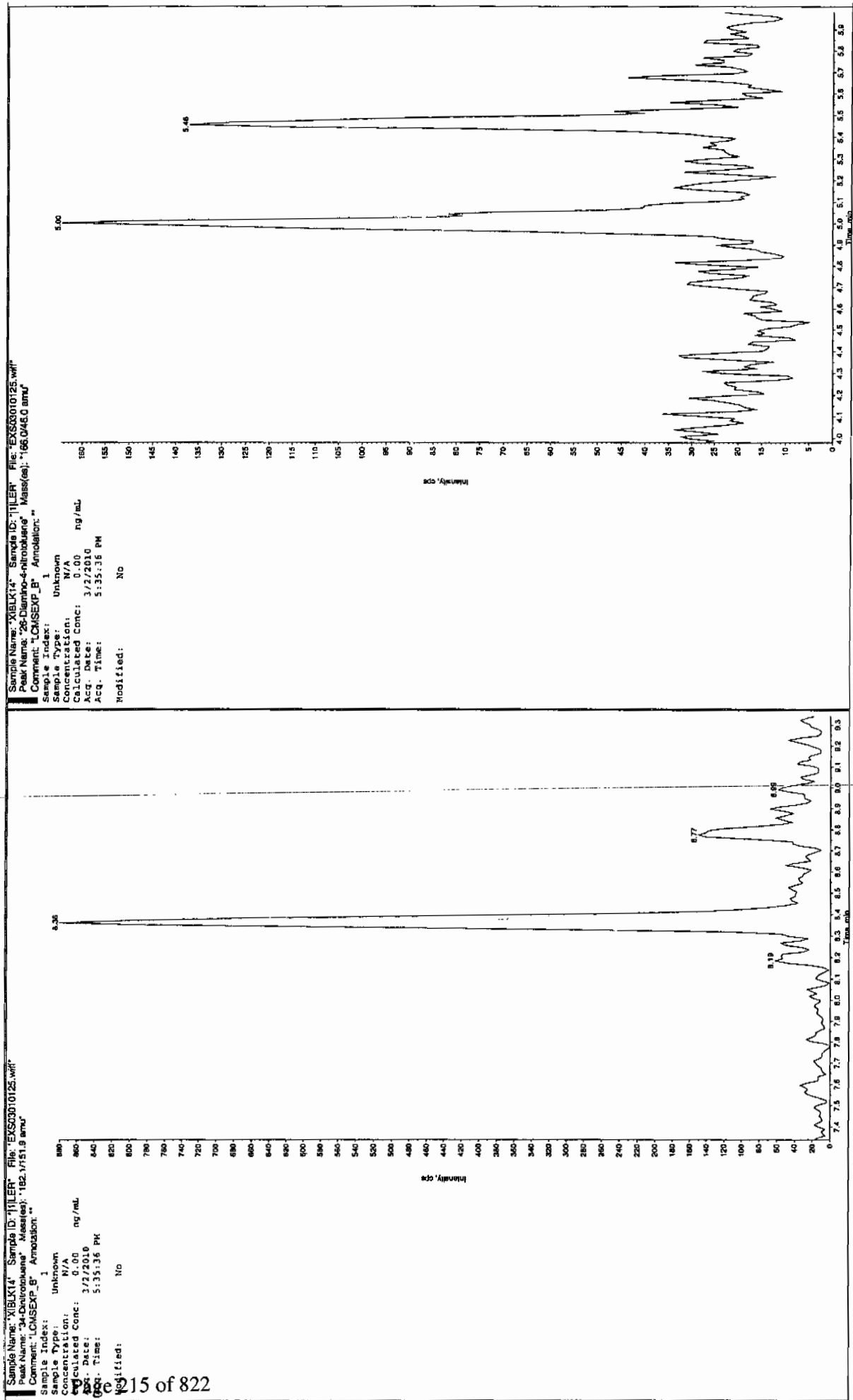
01/21/10  
JUN 23/10

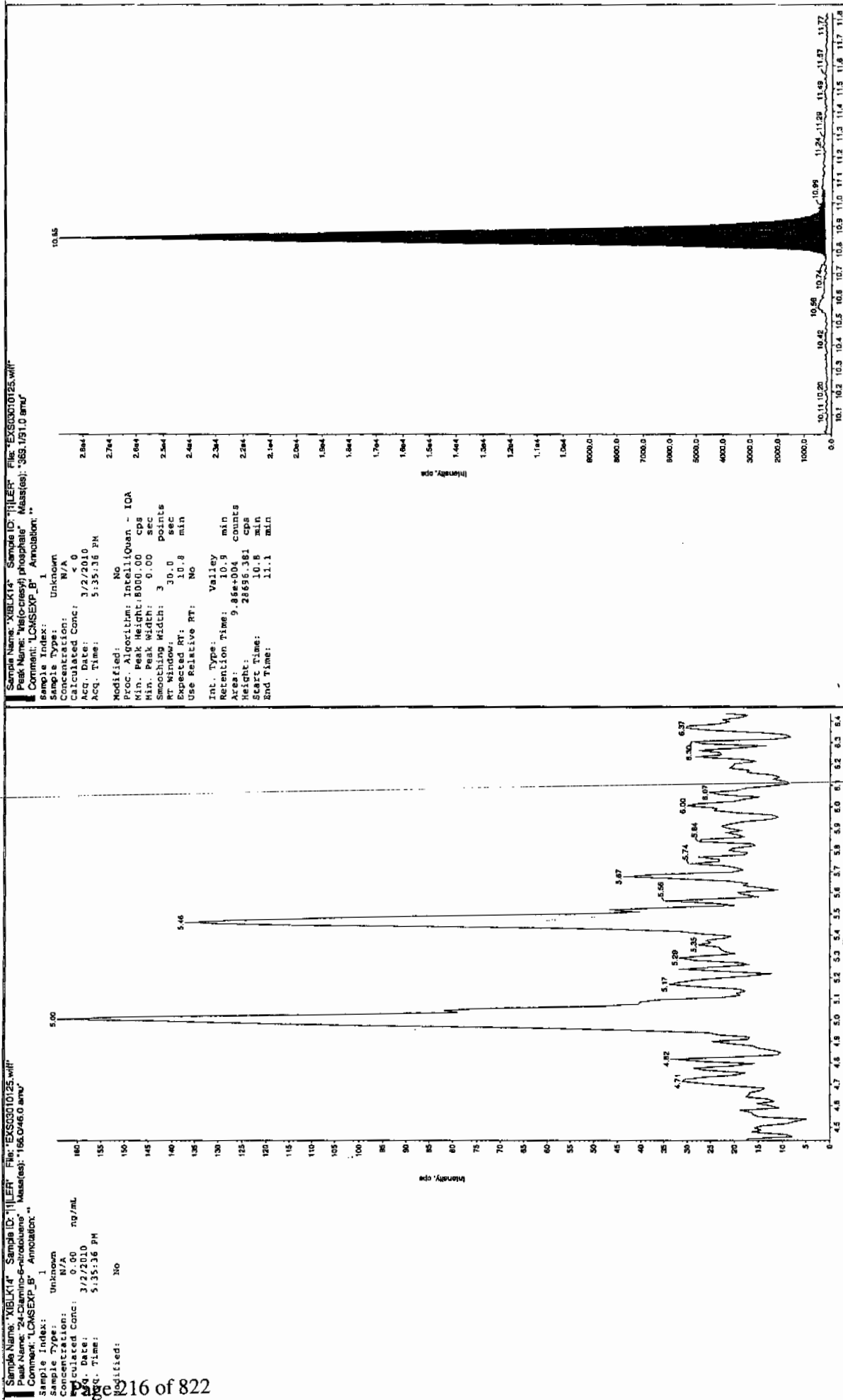


Ann 3/6/10



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





Sample Name: 'XBLK14' Sample ID: '11LER' File: 'EXS03010125.wif'  
 Peak Name: 'XBLK14' Mass(es): '369.151.0 amu'  
 Comment: 'LCMSXP\_B' Annotation: ''

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: < 0  
 Acq. Date: 3/2/2010  
 Acq. Time: 5:35:36 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.9 min  
 Area: 9.85e+004 counts  
 Height: 28696.361 cps  
 Start Time: 10.8 min  
 End Time: 11.1 min

Sample Name: 'XBLK14' Sample ID: '11LER' File: 'EXS03010125.wif'  
 Peak Name: 'XBLK14' Mass(es): '166.046.0 amu'  
 Comment: 'LCMSXP\_B' Annotation: ''

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 5:35:36 PM  
 Modified: No

Nairb.ref

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

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

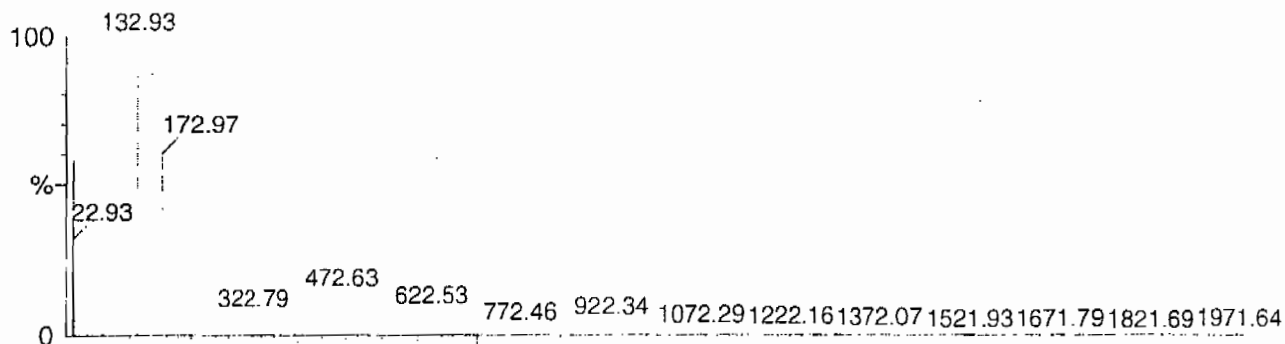
Calibration Report - MS1 Static

Page 1 of 1

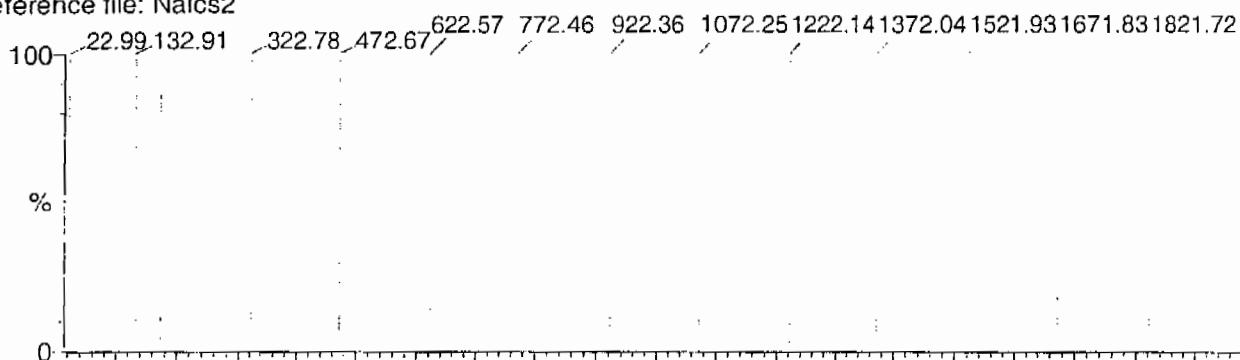
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

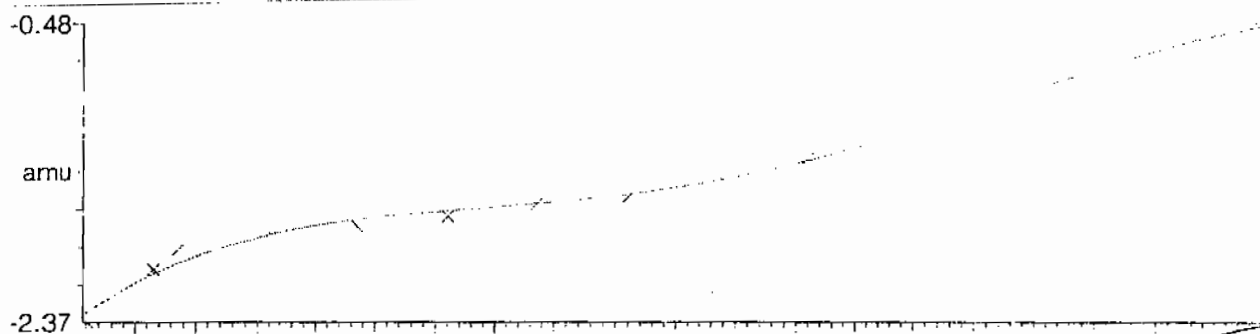
15 matches of 15 tested references



Reference file: Naics2

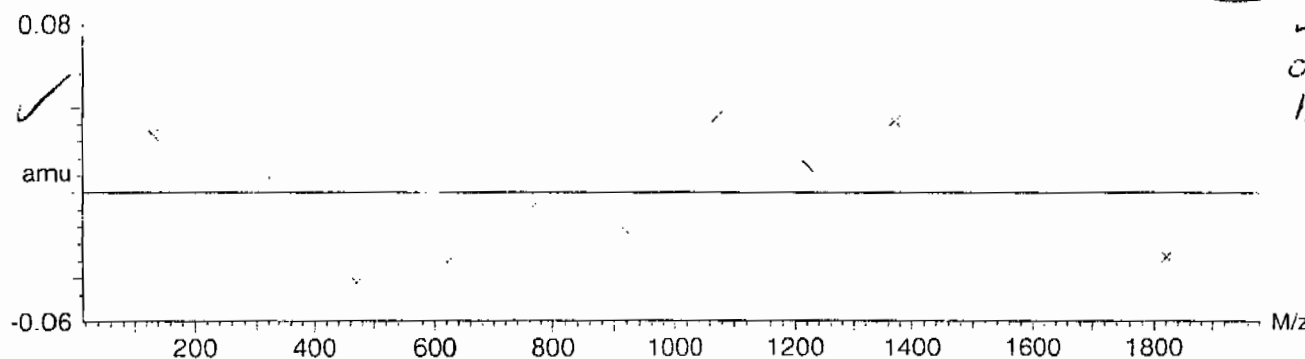


Mass difference (Raw - Ref mass)



Residuals

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



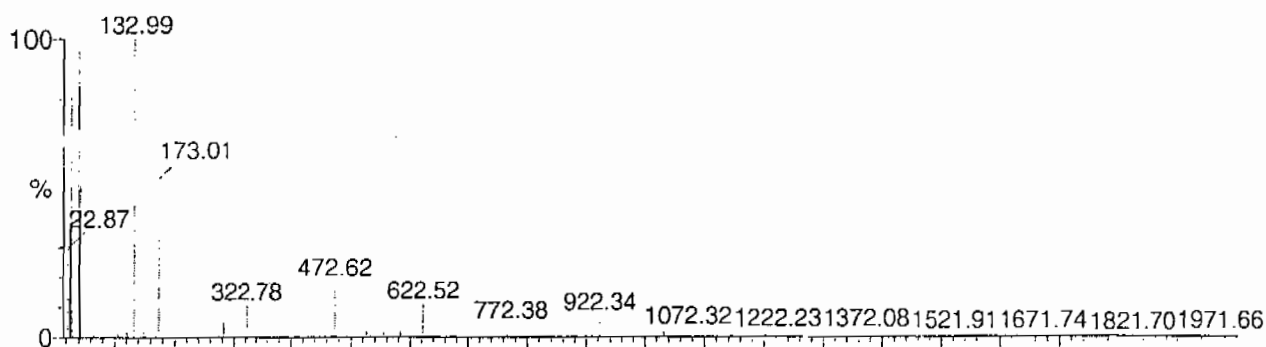
Calibration Report - MS1 Scanning

Page 1 of 1

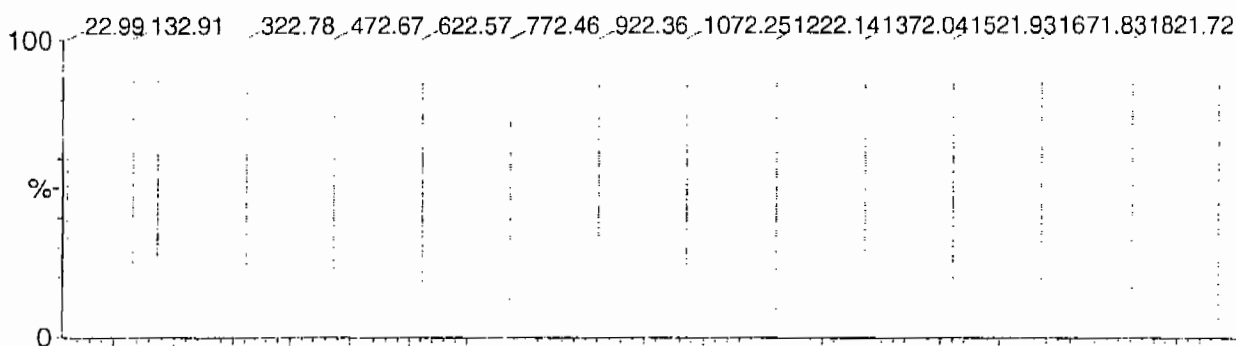
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

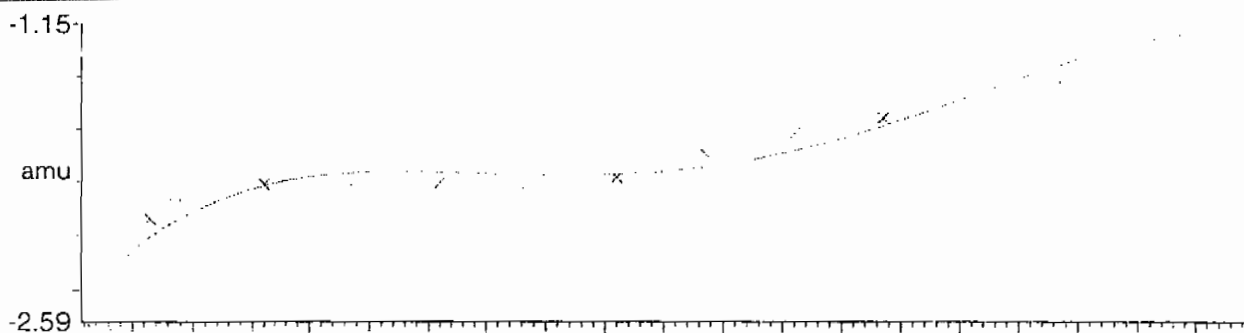
15 matches of 15 tested references



Reference file: Naics2

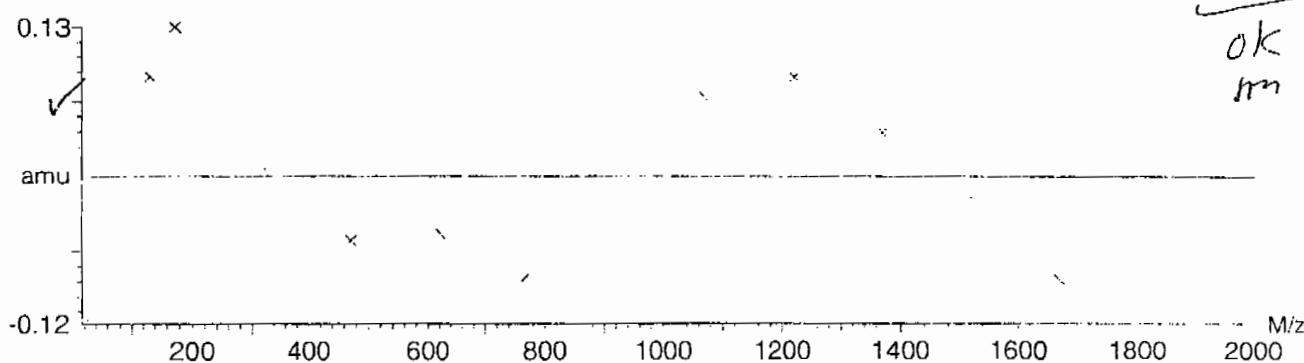


Mass difference (Raw - Ref mass)



Residuals

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



ok  
m



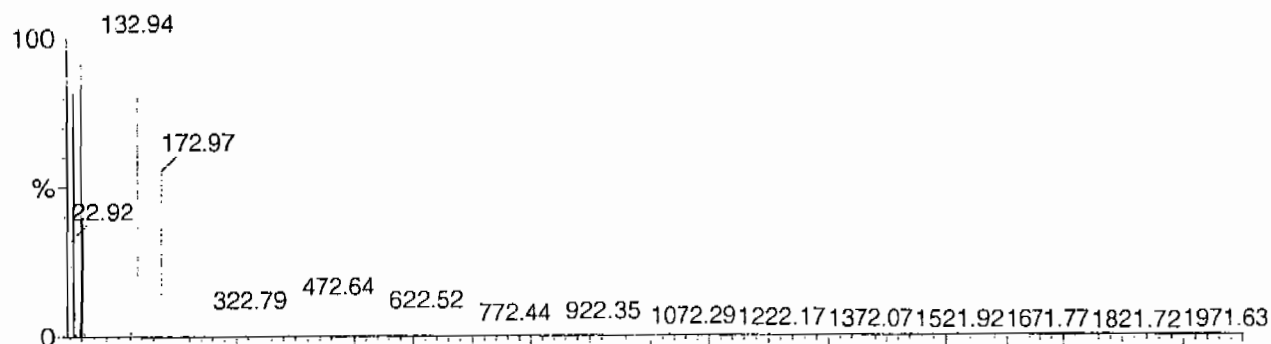
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

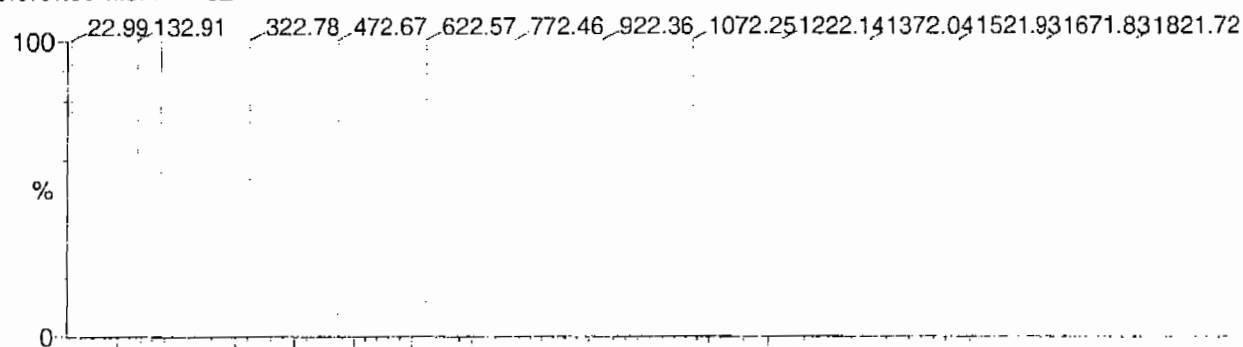
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

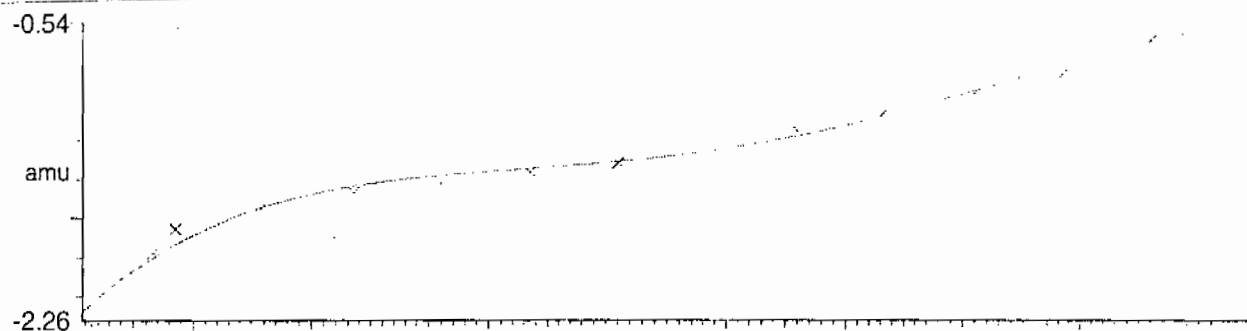
15 matches of 15 tested references



Reference file: Naics2

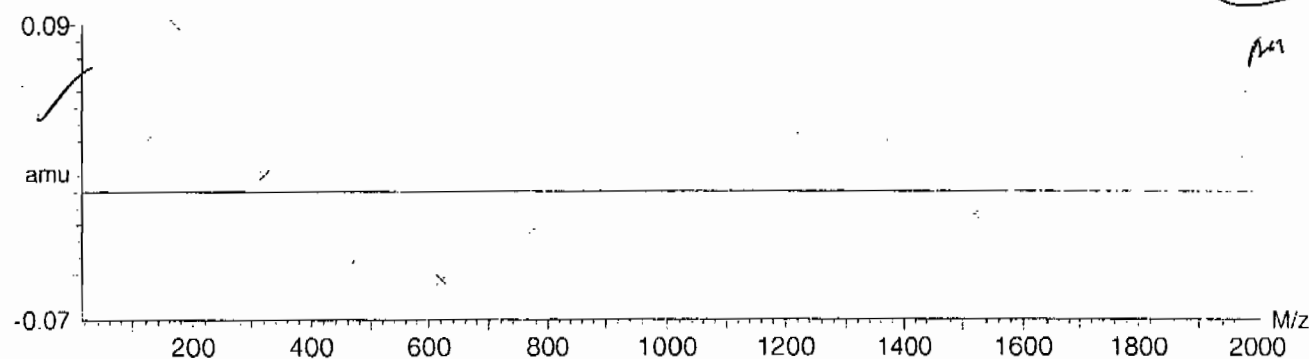


Mass difference (Raw - Ref mass)



Residuals

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



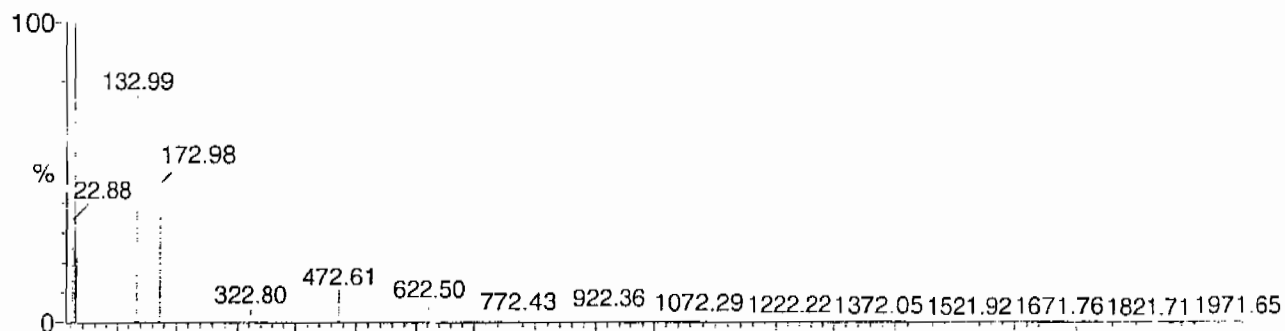
Calibration Report - MS2 Static

Page 1 of 1

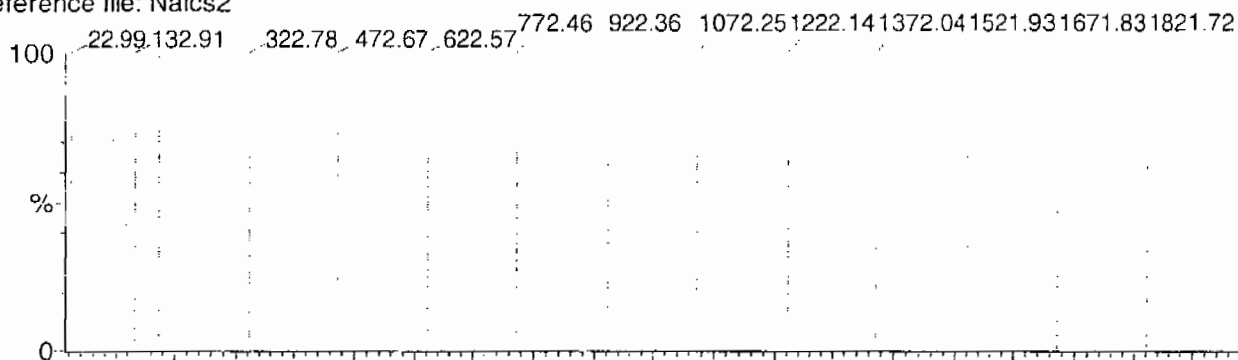
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

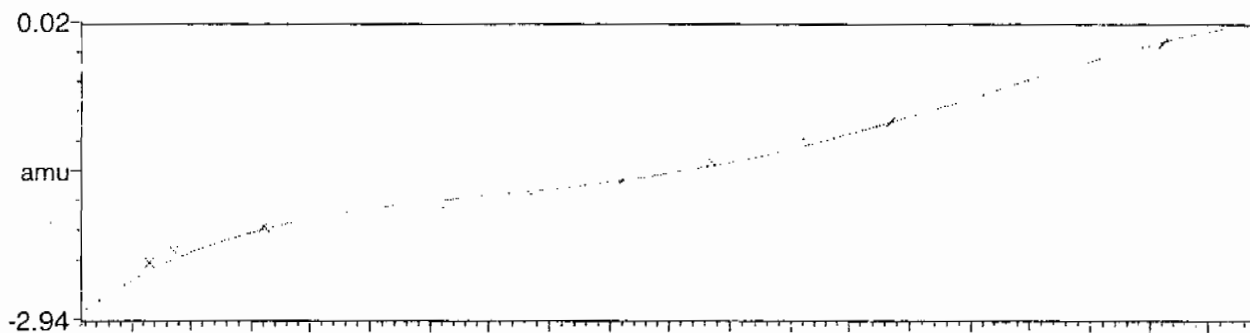
15 matches of 15 tested references



Reference file: Naics2

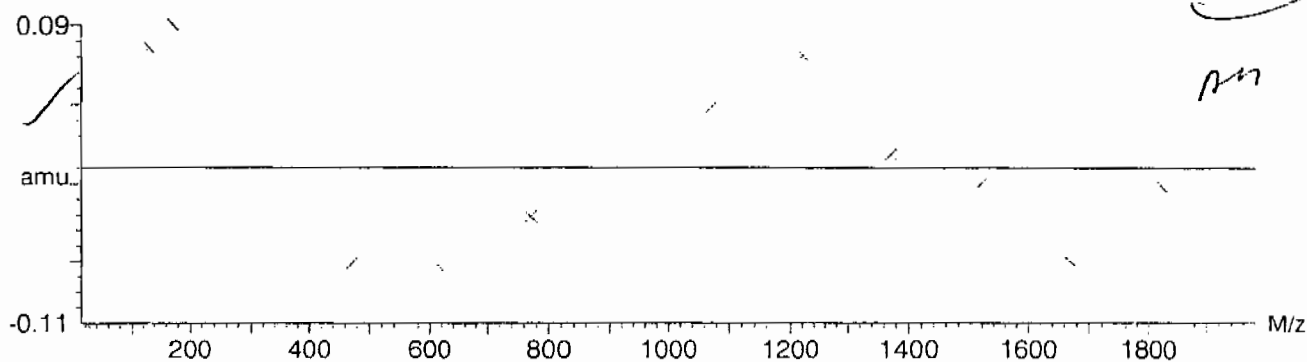


Mass difference (Raw - Ref mass)



Residuals

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



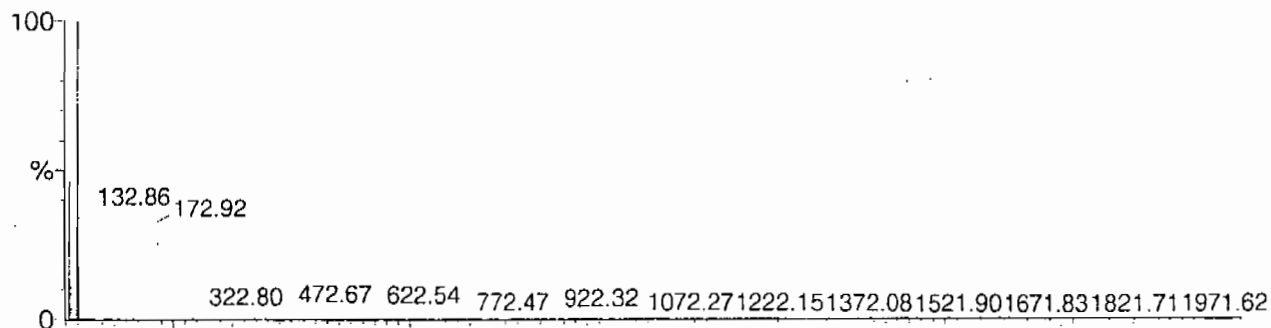
Calibration Report - MS2 Scanning

Page 1 of 1

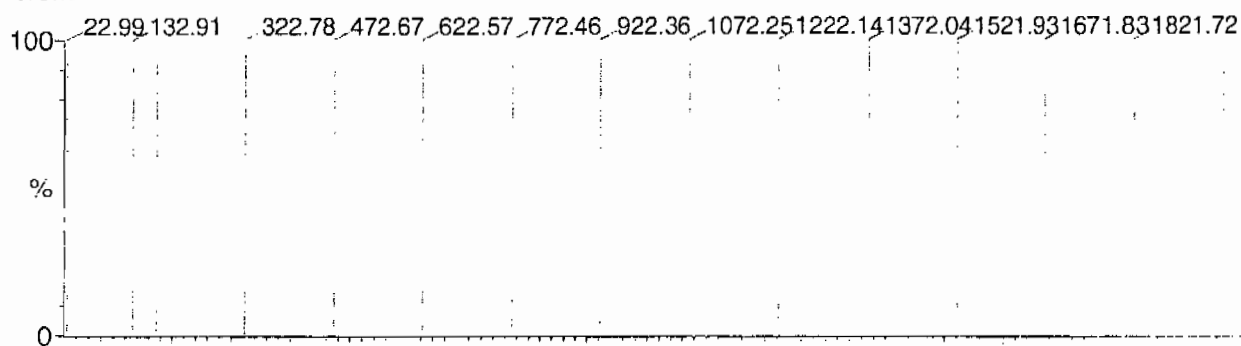
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

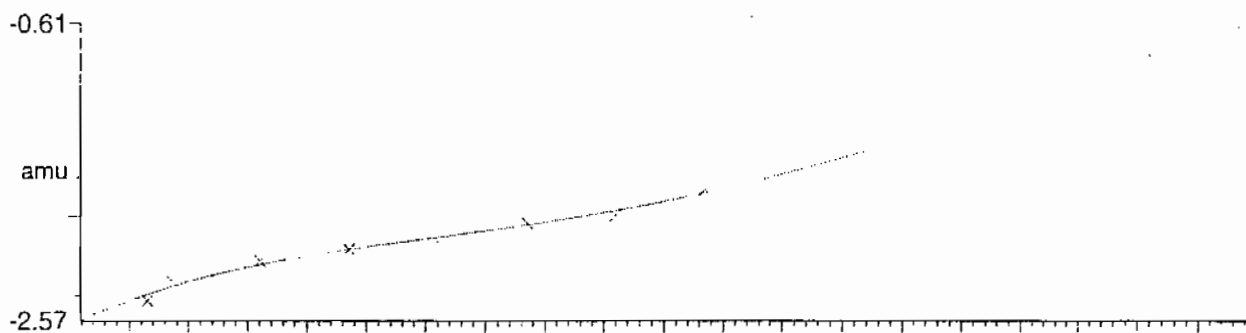
14 matches of 15 tested references



Reference file: Naics2

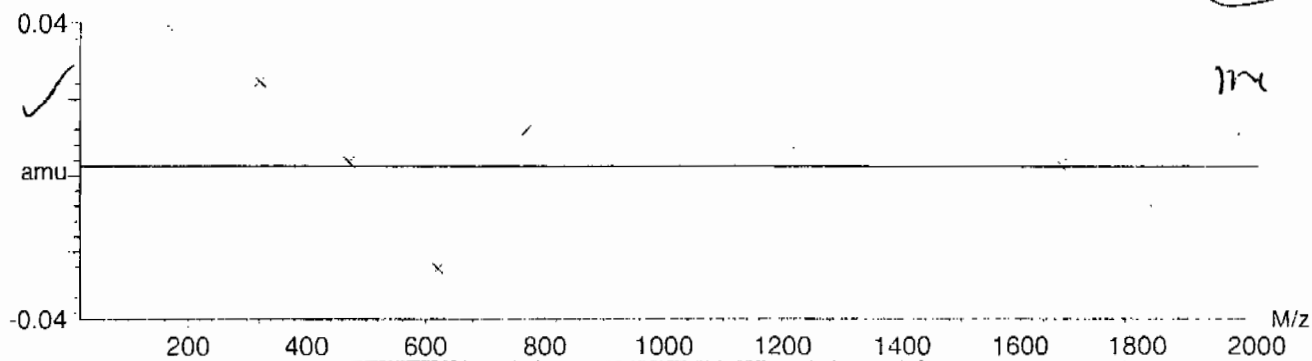


Mass difference (Raw - Ref mass)



Residuals

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



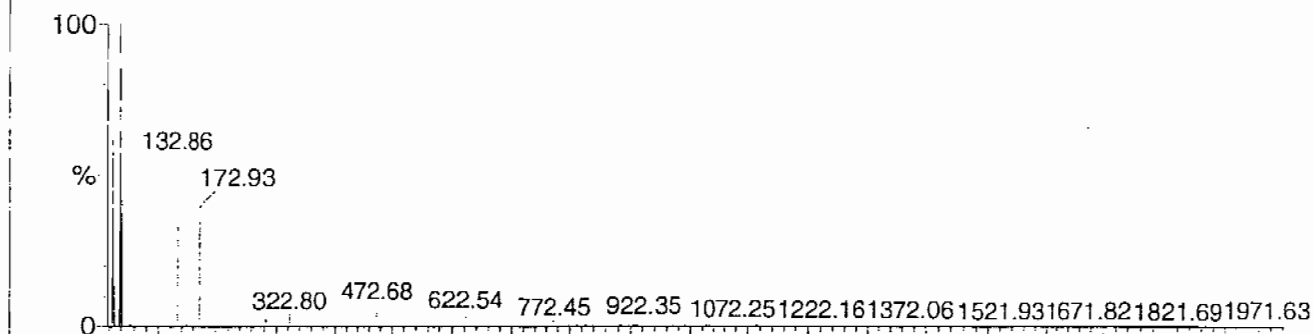
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

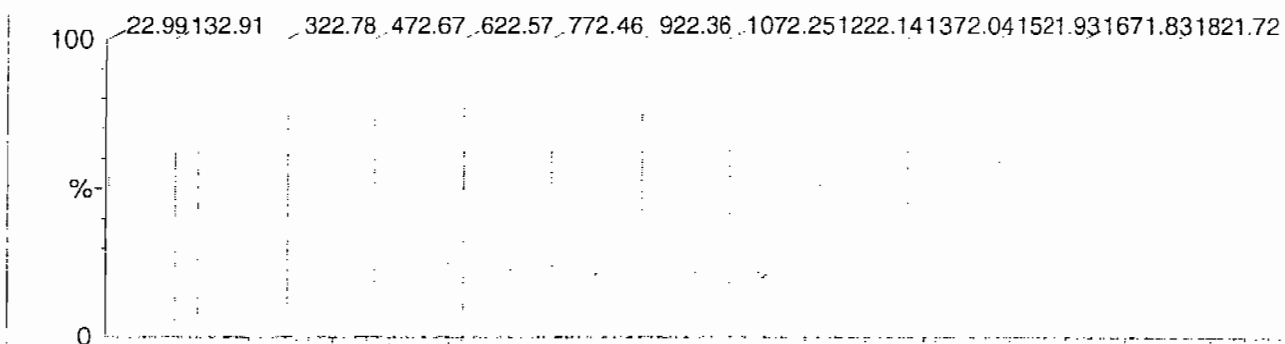
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

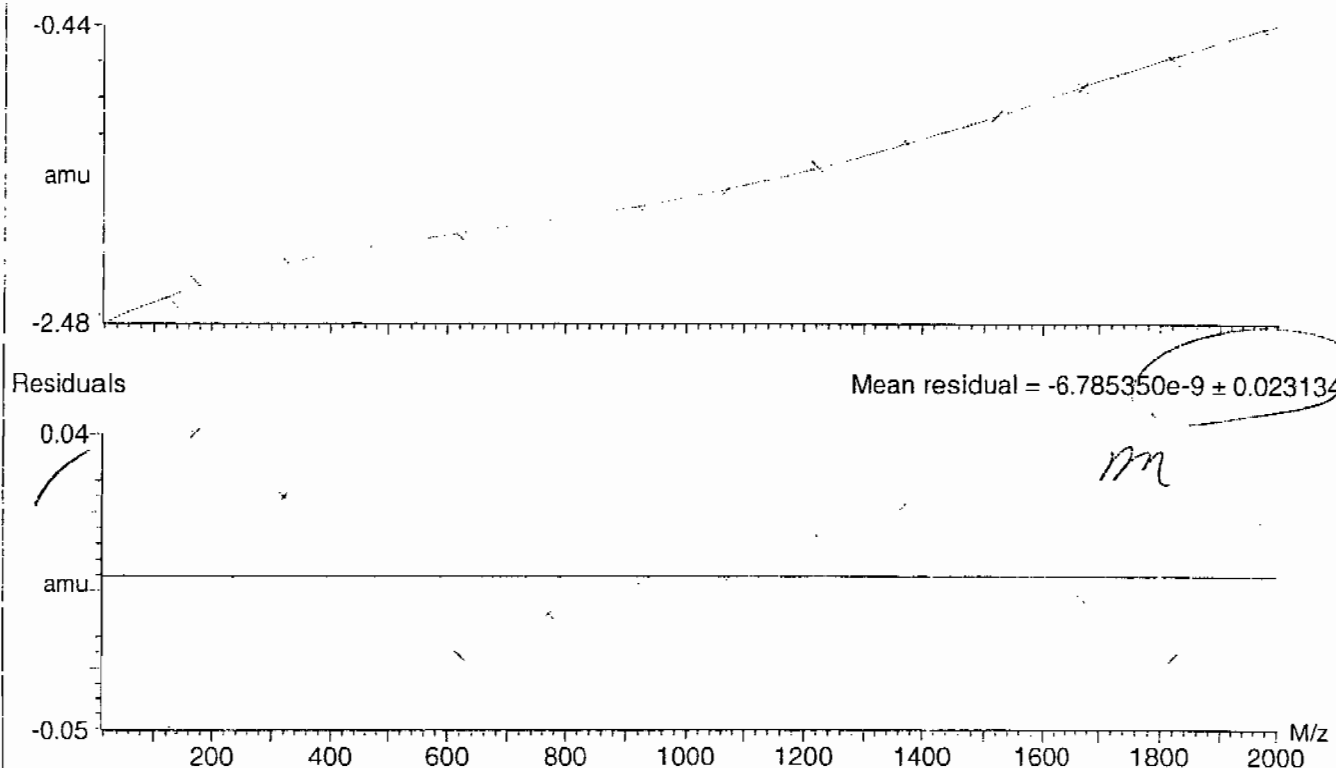
14 matches of 15 tested references



Reference file: Naics2



Mass difference (Raw - Ref mass)



# High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Instrument ID: LCMSMS

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			21250000	10.55	98666666.667	14.717
Upper Limit			27625000	11.05	128266666.667	15.217
Lower Limit			14875000	10.05	69066666.6669	14.217
MB for batch 950080	13-mar-10 17:25	EXP0312077.w	20200000	10.6	91800000	14.8
LCS for batch 950080	13-mar-10 17:52	EXP0312078.w	19400000	10.6	94000000	14.8
RE15-10-7332	13-mar-10 18:18	EXP0312079.w	19500000	10.6	93000000	14.8
RE15-10-7333	13-mar-10 18:45	EXP0312080.w	20600000	10.6	93200000	14.9
RE15-10-7342	13-mar-10 19:11	EXP0312081.w	18100000	10.6	88200000	14.8
RE15-10-7336	13-mar-10 19:37	EXP0312082.w	19400000	10.6	89600000	14.9
RE15-10-7337	13-mar-10 20:04	EXP0312083.w	19000000	10.6	86400000	14.9
RE15-10-7334	13-mar-10 20:30	EXP0312084.w	18800000	10.7	80800000	14.9
RE15-10-7335	13-mar-10 20:57	EXP0312085.w	19300000	10.6	83900000	14.9
RE15-10-7338	13-mar-10 21:23	EXP0312086.w	18800000	10.6	83200000	14.9
RE15-10-7339	13-mar-10 23:09	EXP0312090.w	18300000	10.7	85900000	14.9

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: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312079.wiff

Date Analyzed: 13-MAR-10 18:18

Units: ug/kg

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

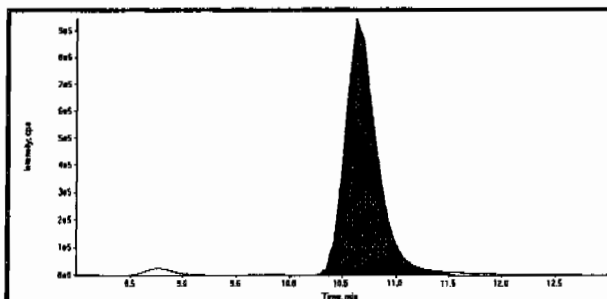
\*Concentration =

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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

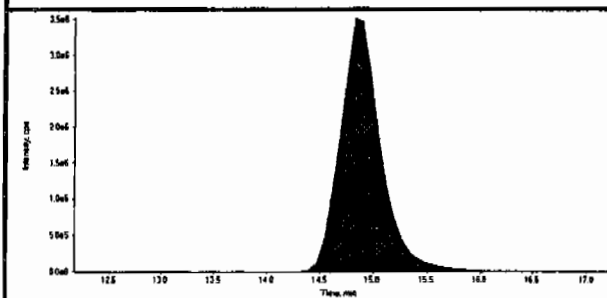
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312079.wiff	Acquisition Date	3/13/2010 6:18:38 PM
Sample Name	246318001	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



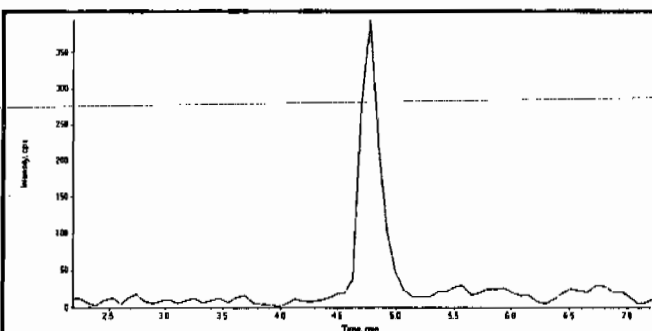
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

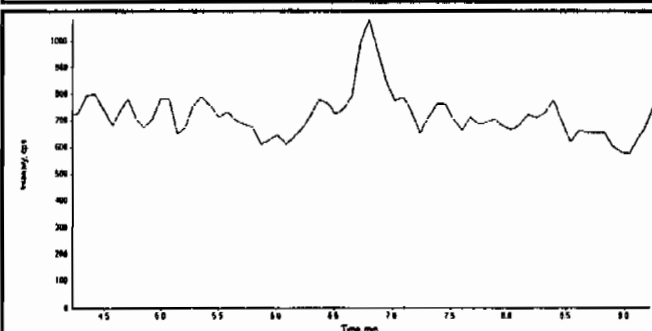


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	93000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*LER*  
*3/24/10*

*Amc*  
*3/24/10*



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312079.wiff	<b>Acquisition Date</b>	3/13/2010 6:18:38 PM
<b>Sample Name</b>	246318001	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312079.wiff	<b>Acquisition Date</b>	3/13/2010 6:18:38 PM
<b>Sample Name</b>	246318001	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312079.wiff	<b>Acquisition Date</b>	3/13/2010 6:18:38 PM
<b>Sample Name</b>	246318001	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	5.17e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	226. (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

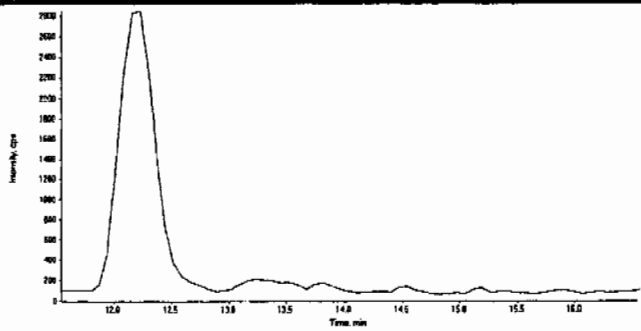
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

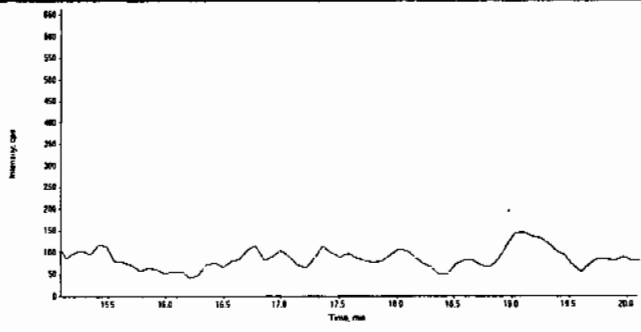
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312079.wiff	<b>Acquisition Date</b>	3/13/2010 6:18:38 PM
<b>Sample Name</b>	246318001	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

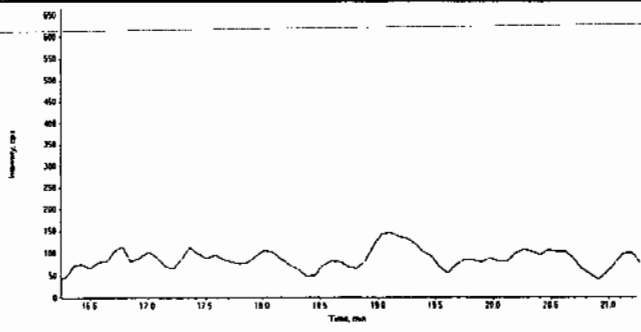
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

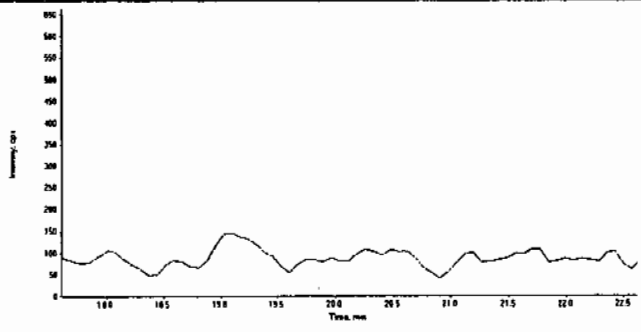
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

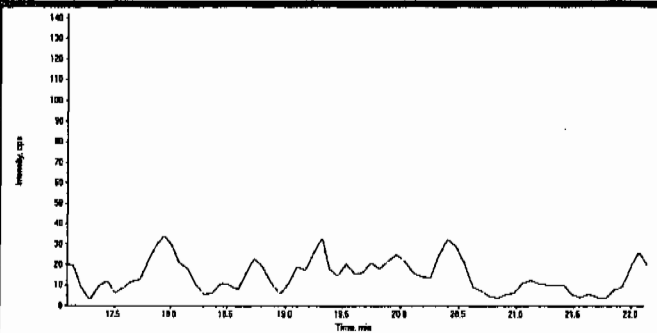
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312079.wiff	Acquisition Date	3/13/2010 6:18:38 PM
Sample Name	246318001	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010121.wiff

Date Analyzed: 02-MAR-10 16:32

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	20800	

\*Concentration =

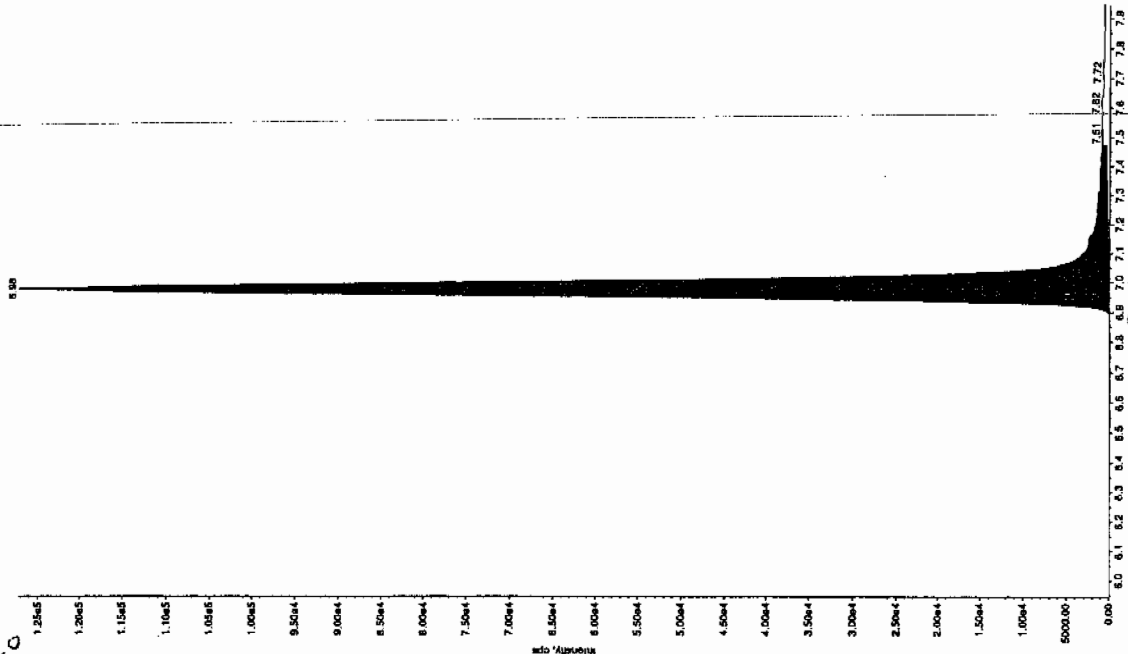
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor

for 3/3/10

DE-THB 0000

Sample Name: "246318001" Sample ID: "950061101ER" File: "EX503010121.wif"  
 Peak Name: "35-Dinitrobenzidine" Mass(es): "182.046.0 amu"  
 Comment: "LCX83212S" Annotation: ""

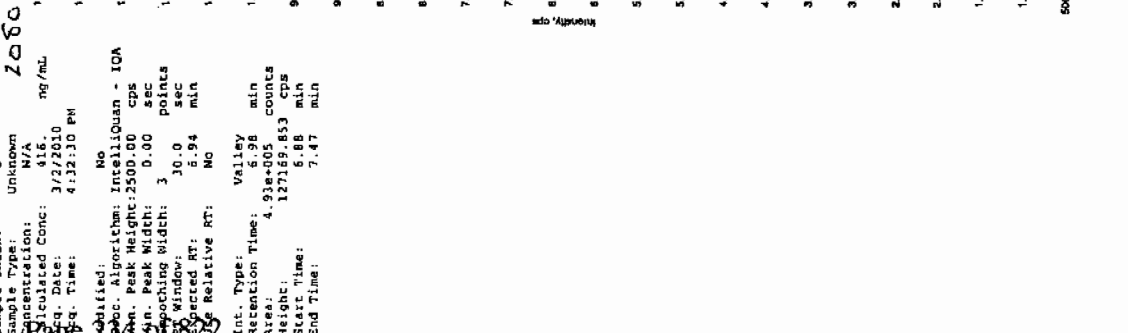
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 4:32:30 PM  
 Modified: No

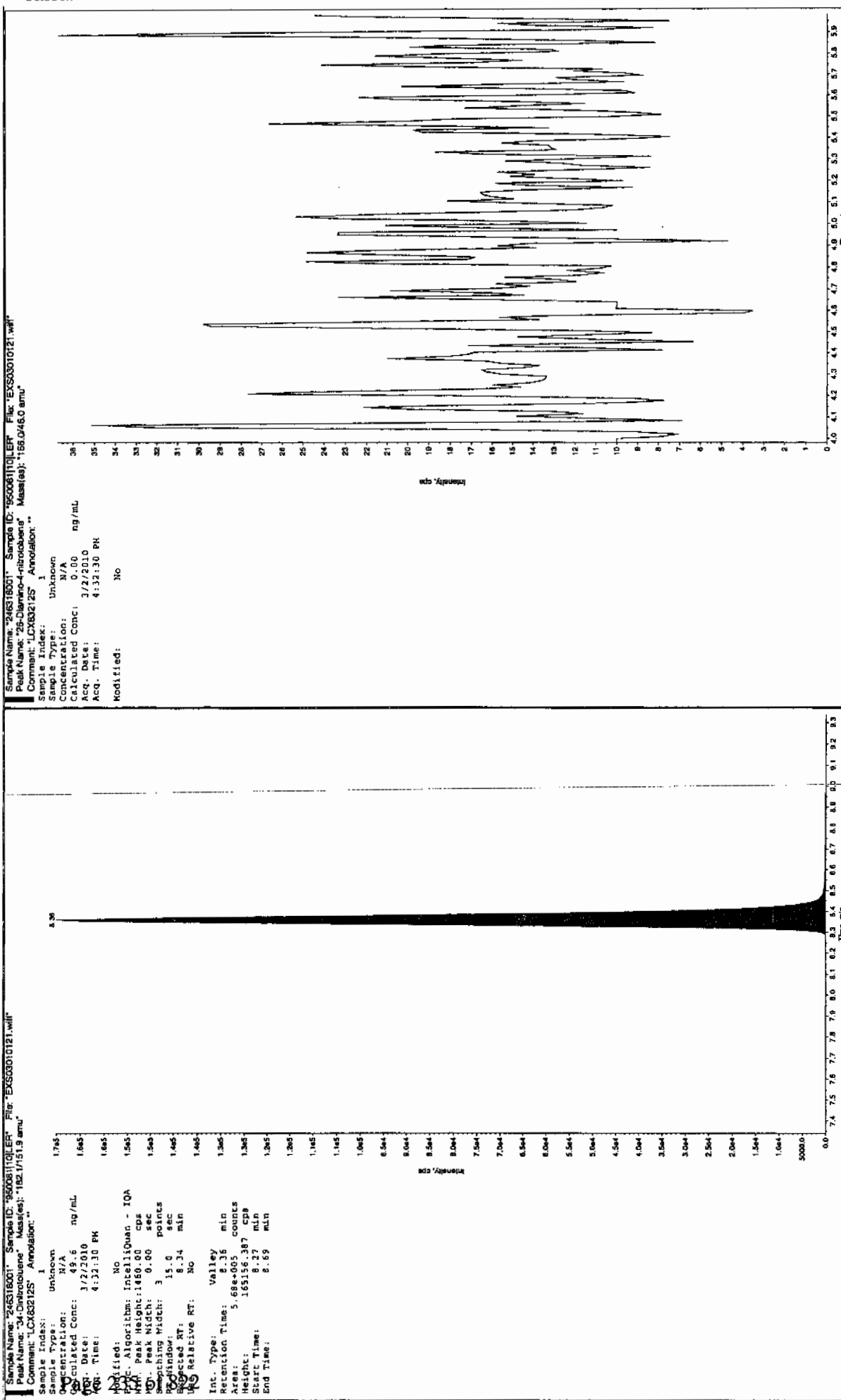


Ann 03/04/10

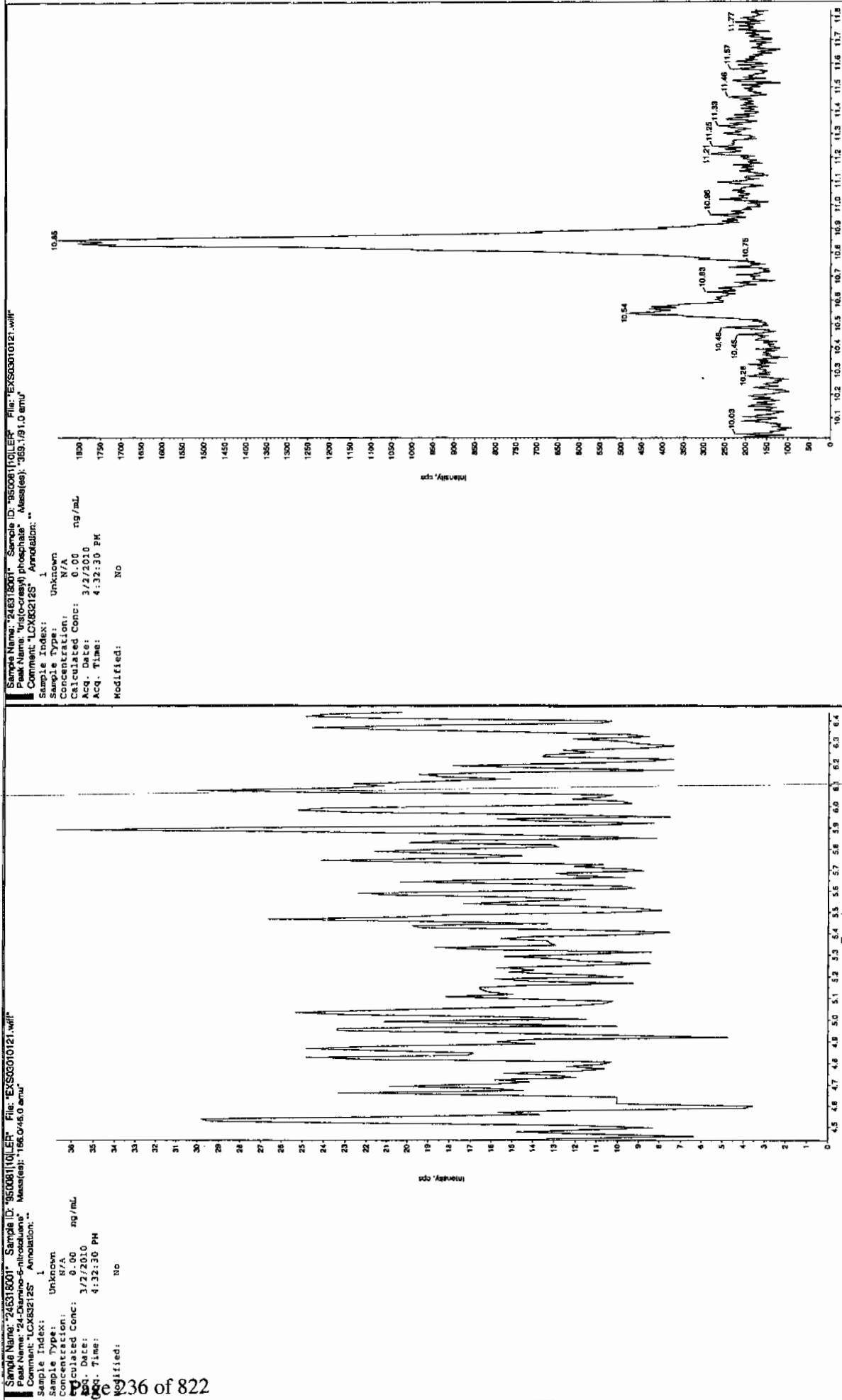
Sample Name: "246318001" Sample ID: "950061101ER" File: "EX503010121.wif"  
 Peak Name: "7A18" Mass(es): "257.2204.9 amu"  
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 415 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 4:32:30 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Ann. Peak Height: 2500.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 Window: 30.0 sec  
 Selected RT: 5.94 min  
 Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.98 min  
 Area: 4.93e+005 counts  
 Height: 127159.853 cps  
 Start Time: 5.88 min  
 End Time: 7.47 min









1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7332

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318001

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010079.wiff

Date Analyzed: 02-MAR-10 05:30

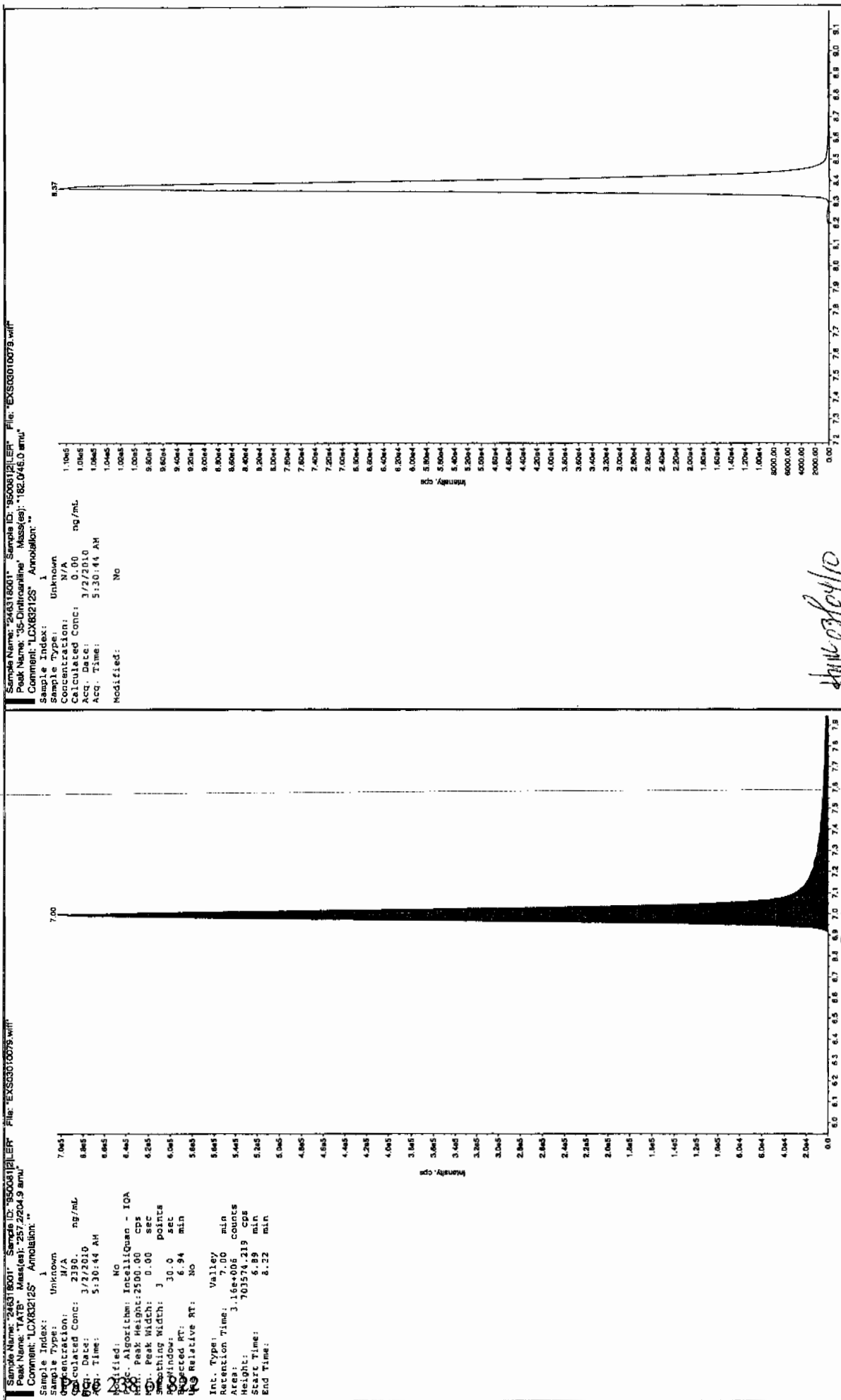
Units: ug/kg

Cas No.	Compound	Concentration*	Q
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

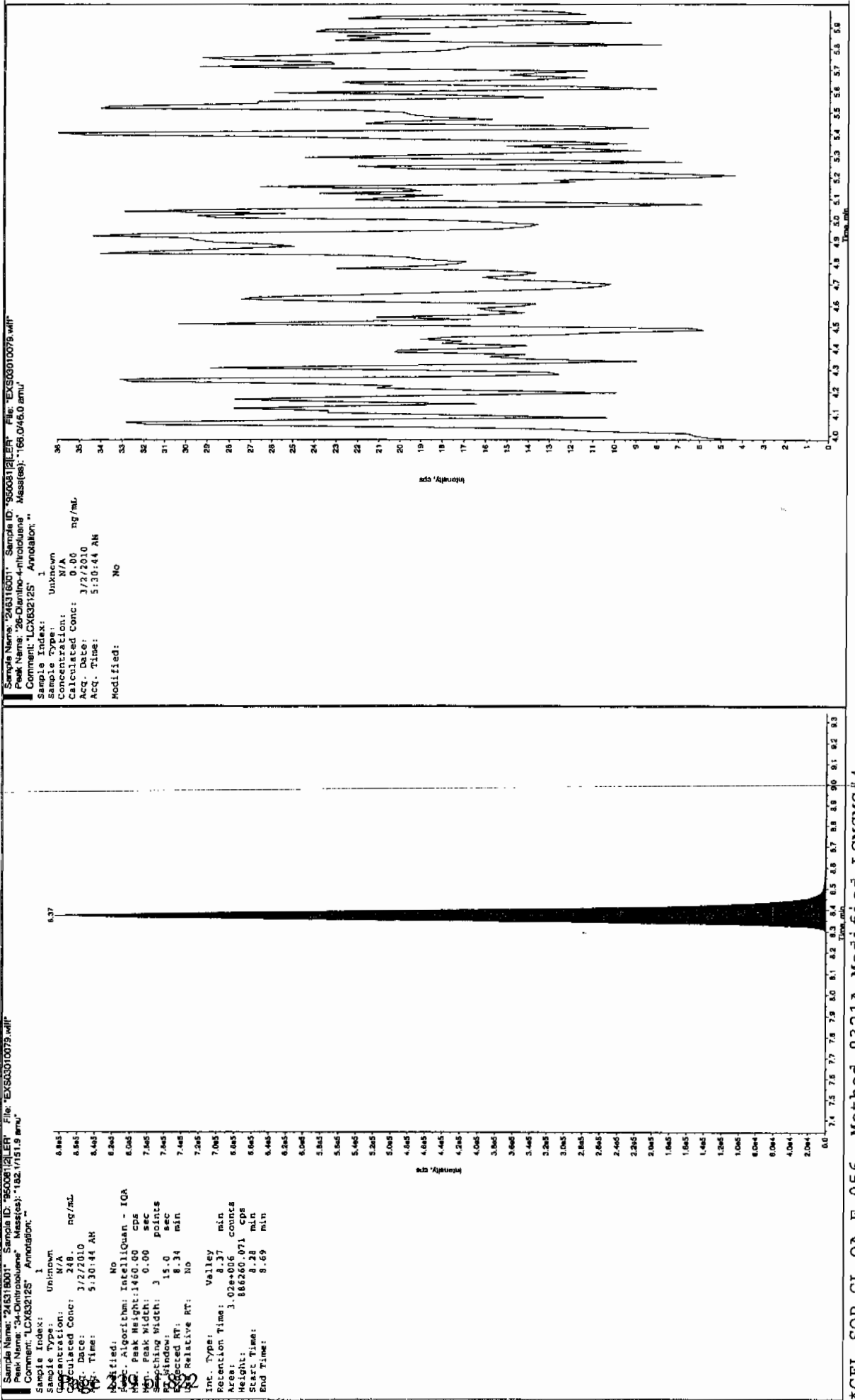
\*Concentration =

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

for 3/3/10



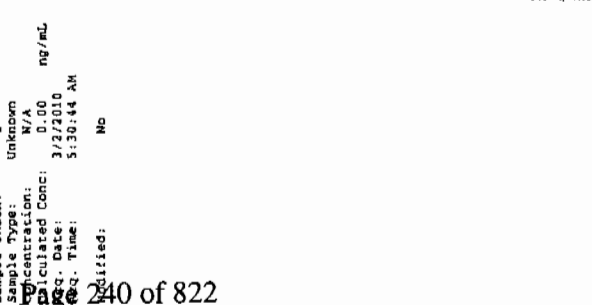
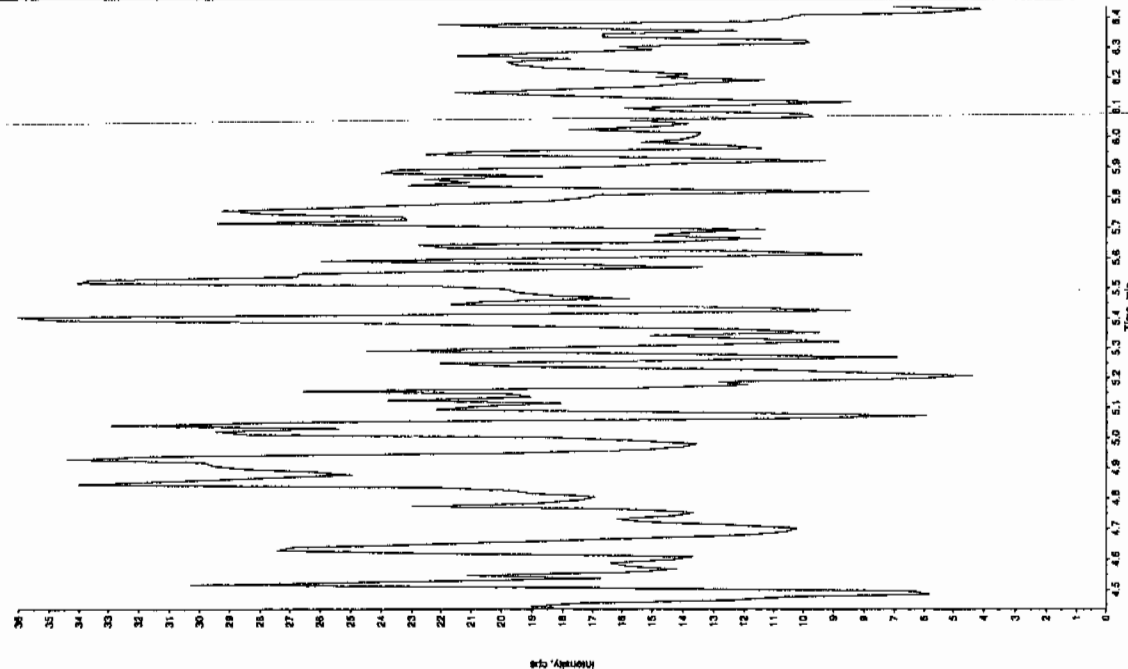
for 3/3/10



Sample Name: "240318001" Sample ID: "9500812121" File: "EX503010079.wif"  
 Peak Name: "10.88" Retention Time: 10.88 min  
 Comment: "LCX33212S" Annotation: "1"

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 5:30:44 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: 3.33e+004 counts  
 Height: 8734.425 cps  
 Start Time: 10.8 min  
 End Time: 11.0 min



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7333

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318002

Sample Amount 2

Moisture: 5.7

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312080.wiff

Date Analyzed: 13-MAR-10 18:45

Units: ug/kg

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

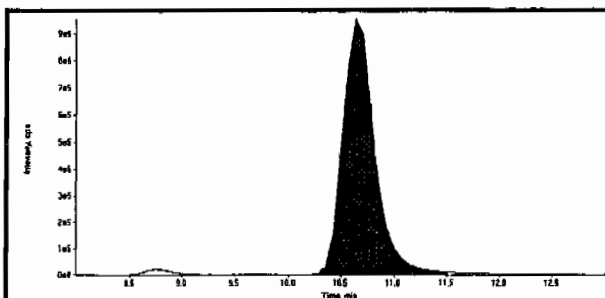
\*Concentration =

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

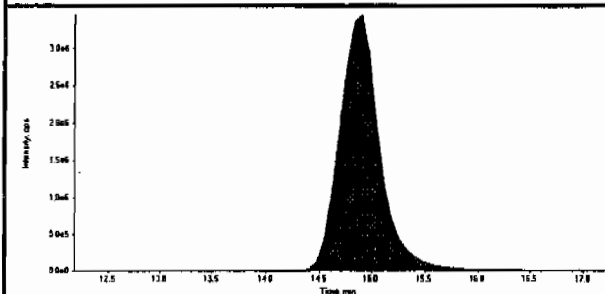
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

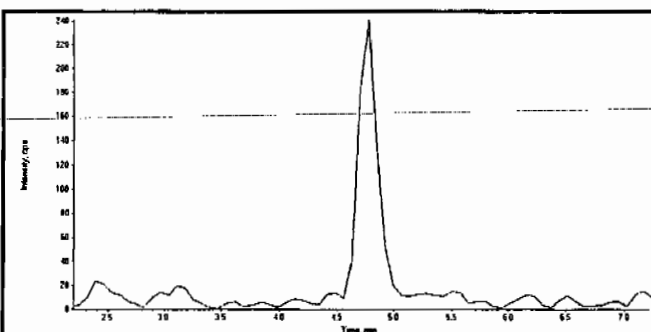
Data File	EXP0312080.wiff	Acquisition Date	3/13/2010 6:45:01 PM
Sample Name	246318002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



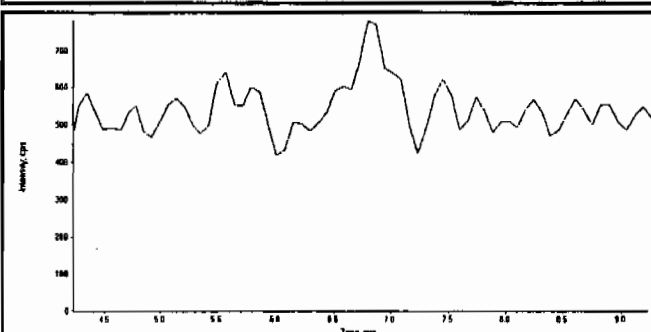
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	93200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*Handwritten signature:* 3/24/10

*Handwritten signature:* 03/24/10

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Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312080.wiff	<b>Acquisition Date</b>	3/13/2010 6:45:01 PM
<b>Sample Name</b>	246318002	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A



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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312080.wiff	<b>Acquisition Date</b>	3/13/2010 6:45:01 PM
<b>Sample Name</b>	246318002	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

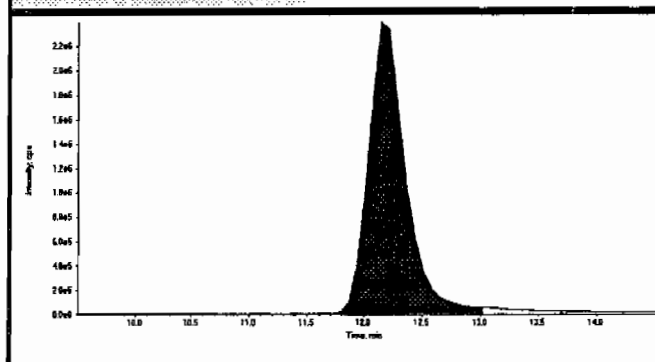
  

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

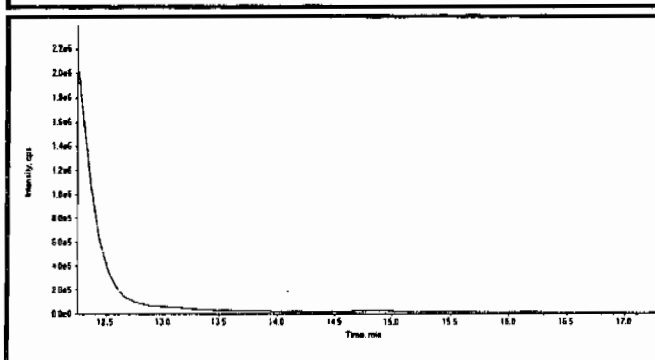
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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

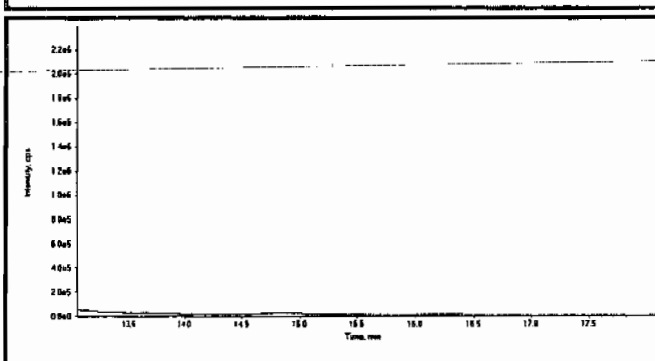
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Sample Name	246318002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



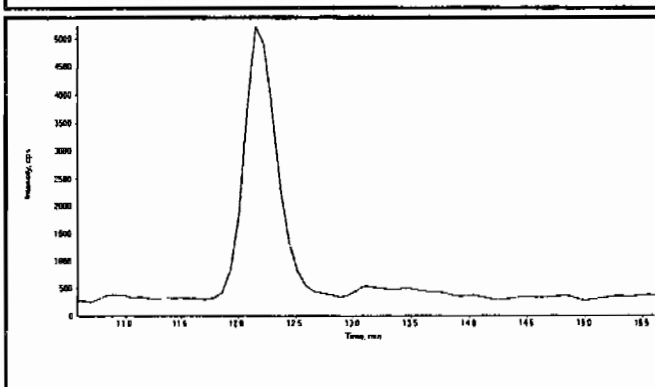
Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.0
Actual RT:	12.2
Area Counts:	5.37e+007
Manual Modification	No
Amount:	234. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

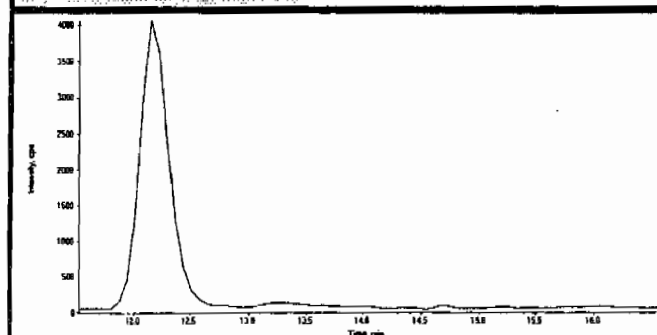


Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

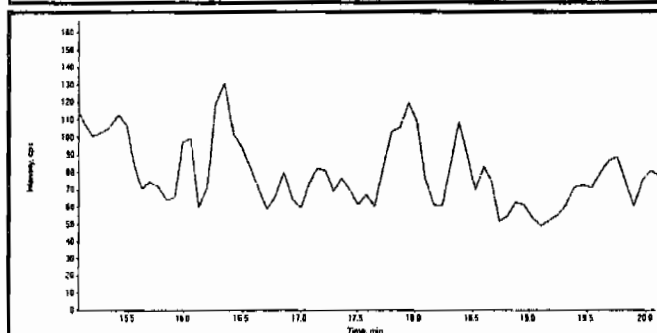
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GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

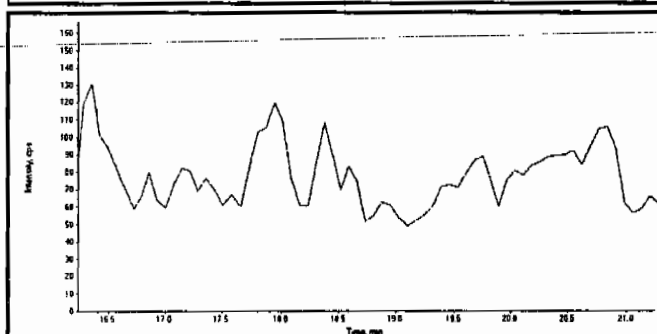
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Sample Name	246318002	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



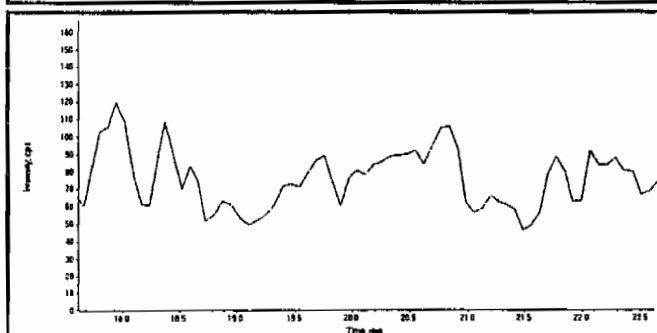
Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.0
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



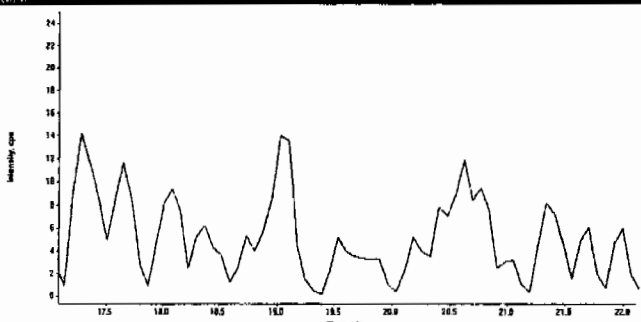
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	18.7
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312080.wiff	<b>Acquisition Date</b>	3/13/2010 6:45:01 PM
<b>Sample Name</b>	246318002	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7333

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318002

Sample Amount 2

Moisture: 5.7

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010118.wiff

Date Analyzed: 02-MAR-10 15:45

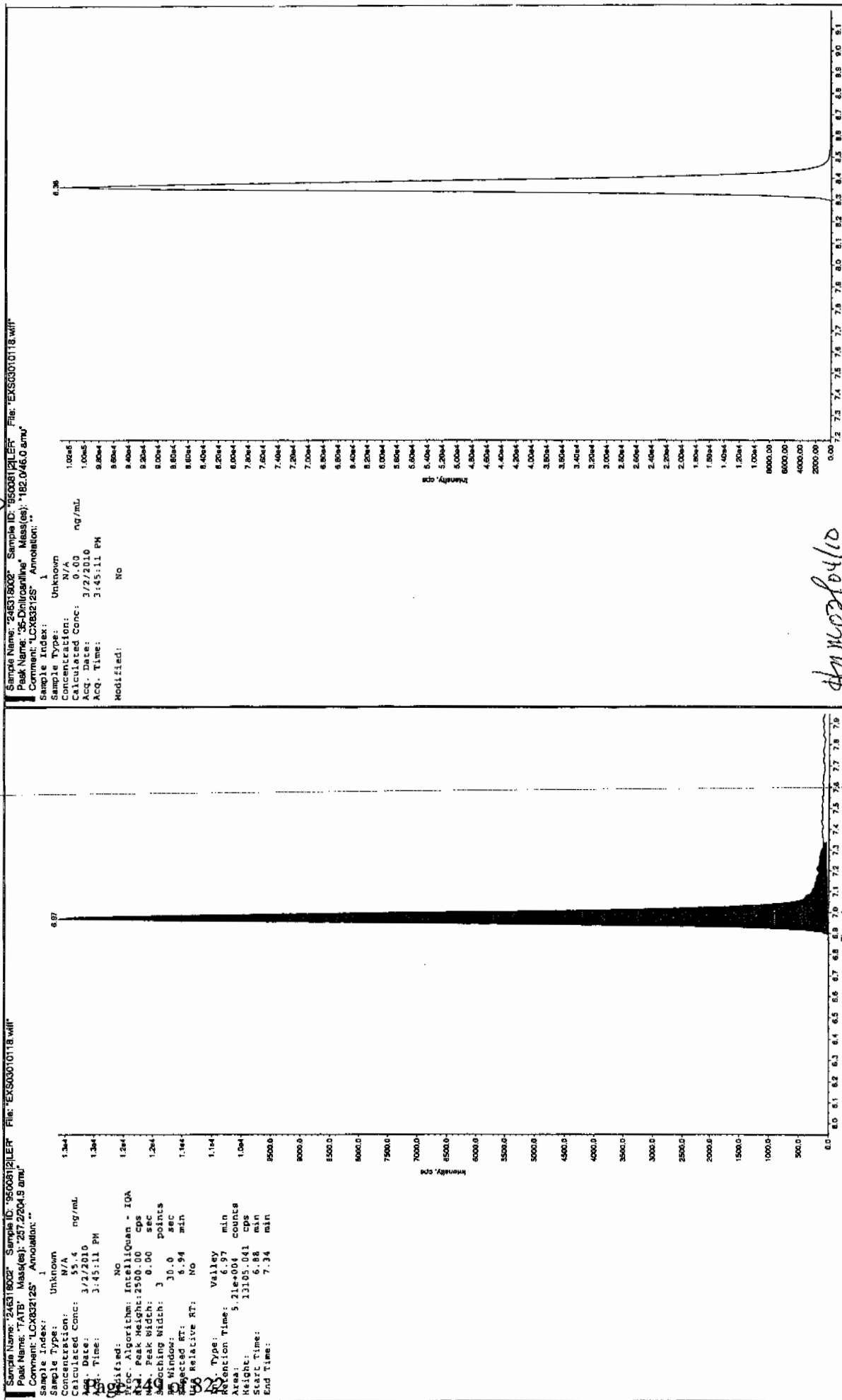
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	554	J
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

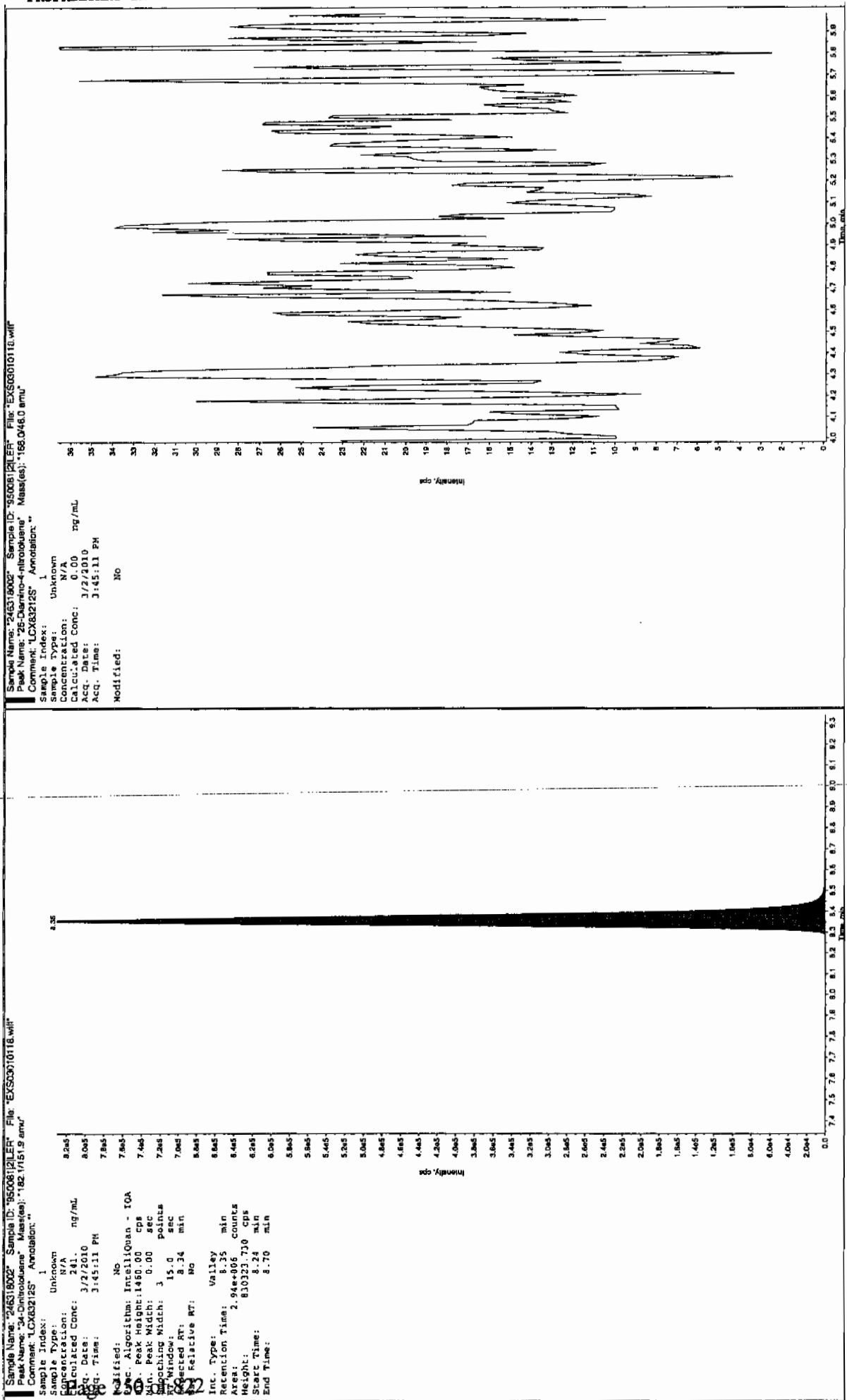
\*Concentration =

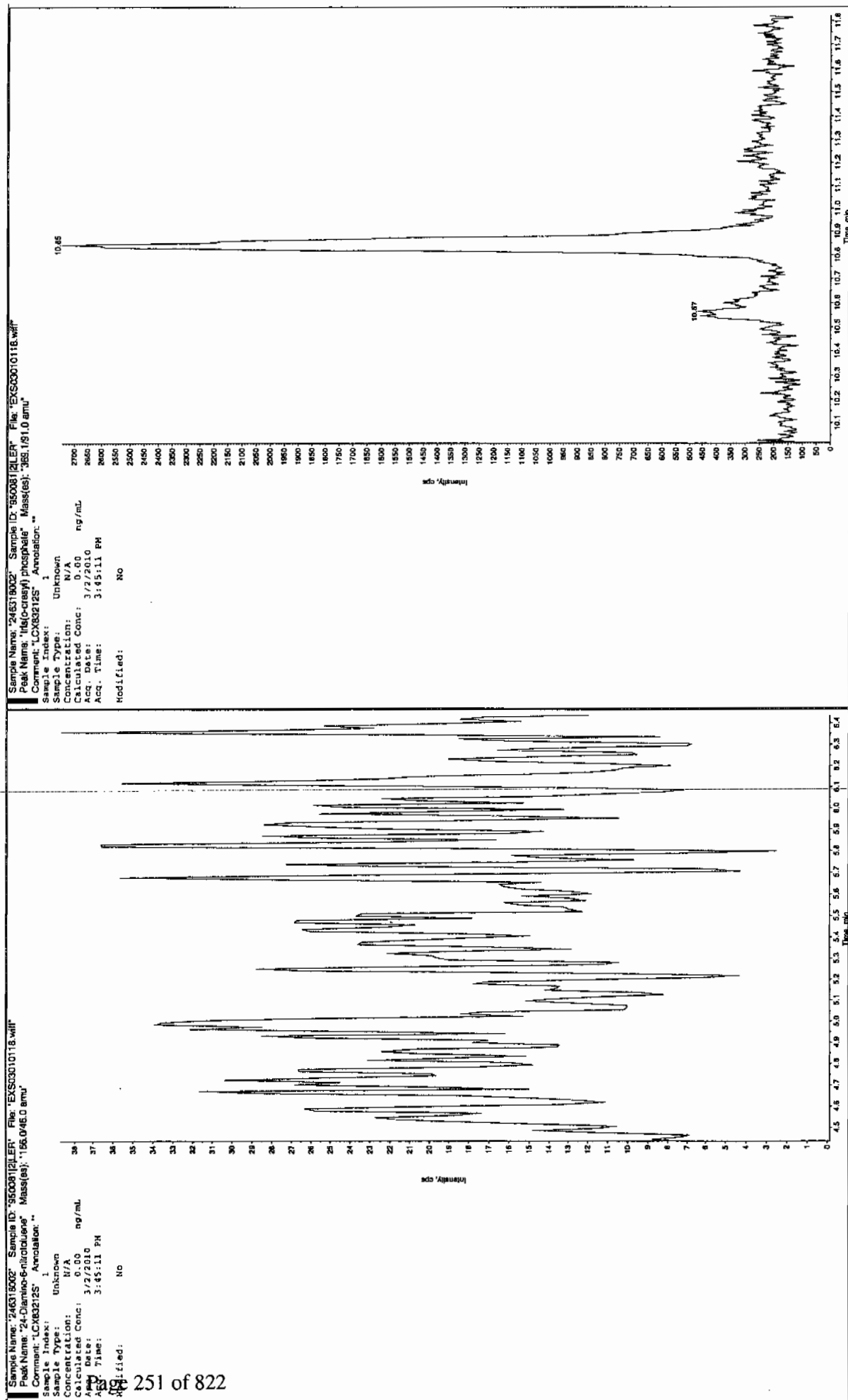
Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

01/12/10  
3/10/10



44M0204/10







1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312081.wiff

Date Analyzed: 13-MAR-10 19:11

Units: ug/kg

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

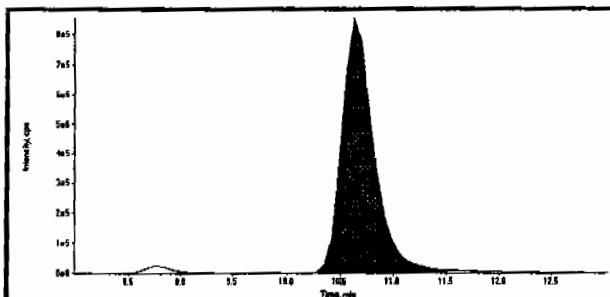
\*Concentration =

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

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

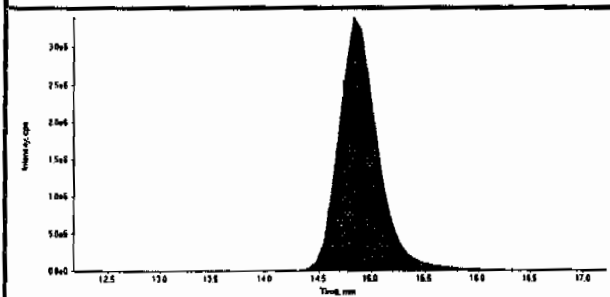
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312081.wiff	Acquisition Date	3/13/2010 7:11:26 PM
Sample Name	246318003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



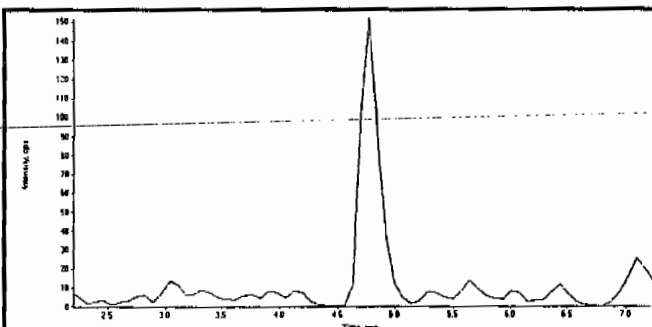
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	18100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

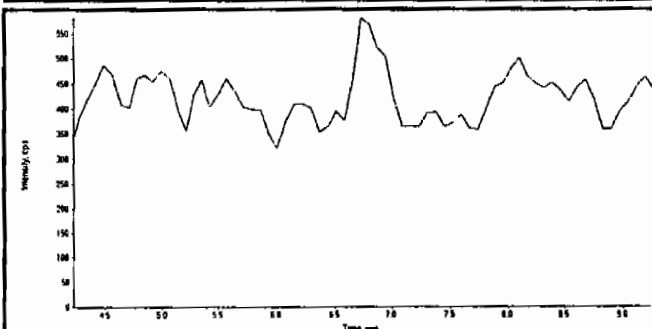


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	88200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

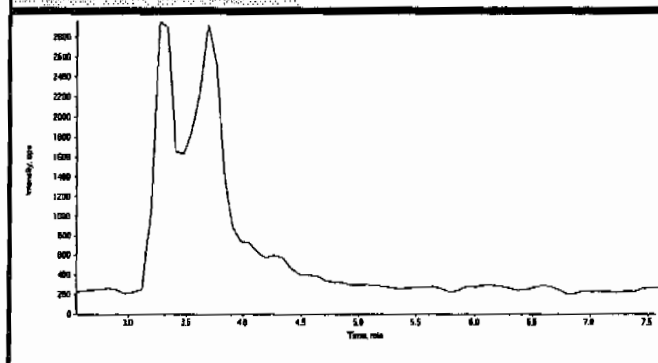
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*Handwritten signature: HMC 03/24/10*

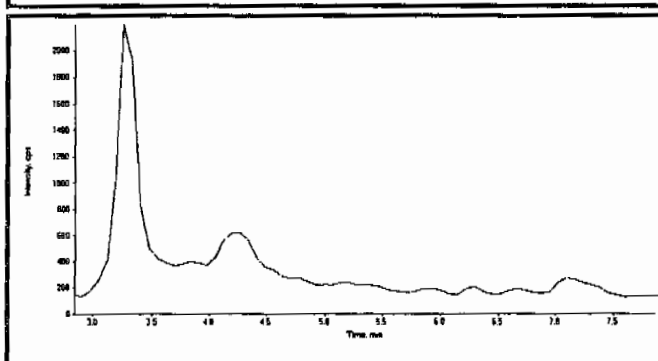
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

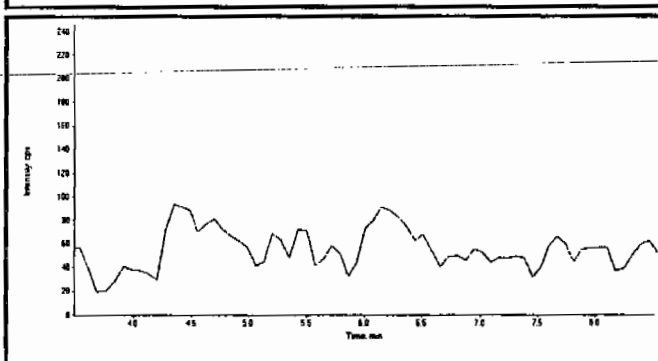
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Sample Name	246318003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



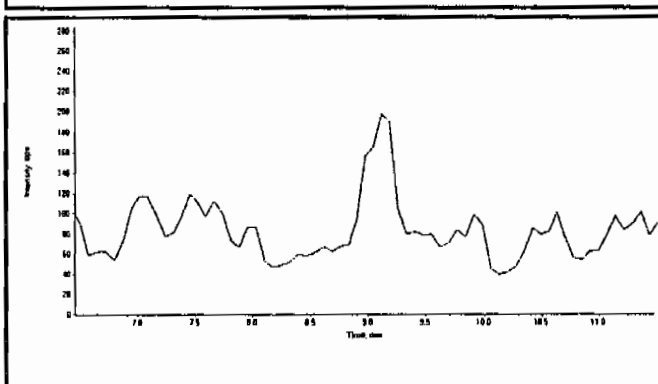
Compound Name:	TNX (219.0/45.0 amu)
Expected RT:	5.06
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	DNX (235.0/45.0 amu)
Expected RT:	5.35
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	MNX (251.0/46.0 amu)
Expected RT:	6.00
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	8.97
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312081.wiff	<b>Acquisition Date</b>	3/13/2010 7:11:26 PM
<b>Sample Name</b>	246318003	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312081.wiff	<b>Acquisition Date</b>	3/13/2010 7:11:26 PM
<b>Sample Name</b>	246318003	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.01e+007
	Manual Modification	No
	Amount:	230. (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

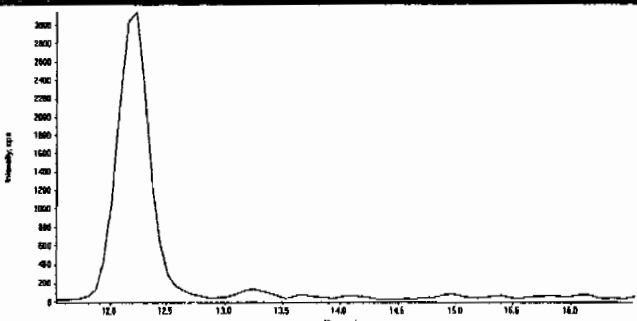
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

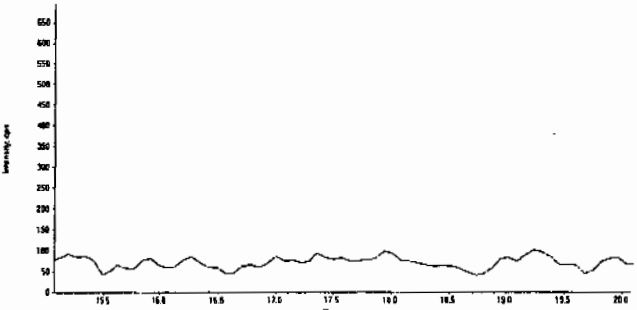
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312081.wiff	<b>Acquisition Date</b>	3/13/2010 7:11:26 PM
<b>Sample Name</b>	246318003	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

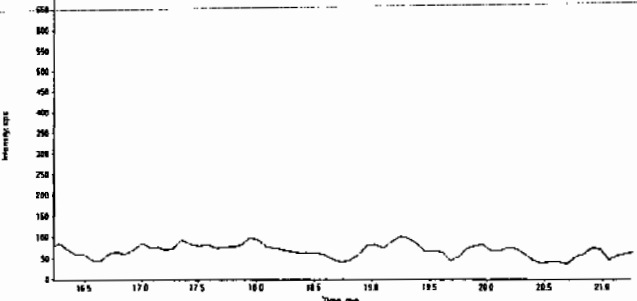
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

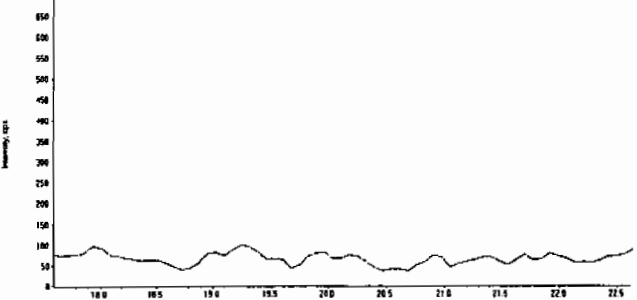
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

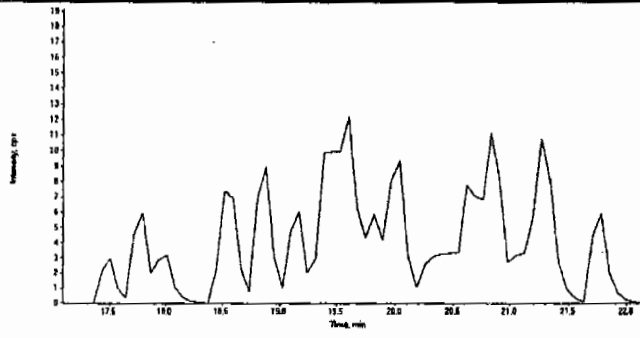
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312081.wiff	Acquisition Date	3/13/2010 7:11:26 PM
Sample Name	246318003	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010122.wiff

Date Analyzed: 02-MAR-10 16:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	23900	

\*Concentration =

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



DE-TAT-10  
only

for 3/3/10

Sample Name: "246318003" Sample ID: "950081" File: "EXS0010122.vit"

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

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 477. ng/mL

Acq. Date: 3/2/2010

Acq. Time: 4:48:14 PM

Modified: NO

Acquisition: Integration - TOA

Peak Width: 2500.00 cps

Peak Width: 30.00 sec

Acquisition: 3 points

Window: 30.0 sec

Selected RT: 6.94 min

Relative RT: NO

Type: Valley

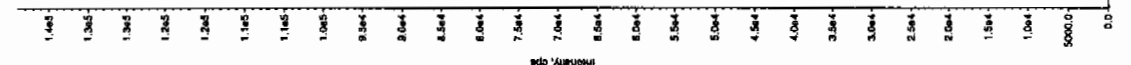
Retention Time: 6.96 min

Area: 5.68e+005 counts

Height: 138887.543 cps

Start Time: 6.85 min

End Time: 7.61 min



Sample Name: "246318003" Sample ID: "950081" File: "EXS0010122.vit"

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

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

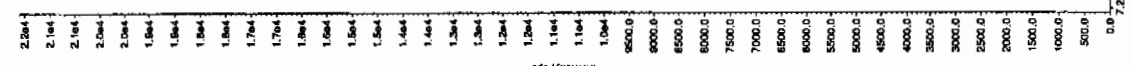
Concentration: N/A

Calculated Conc: 0.00 ng/mL

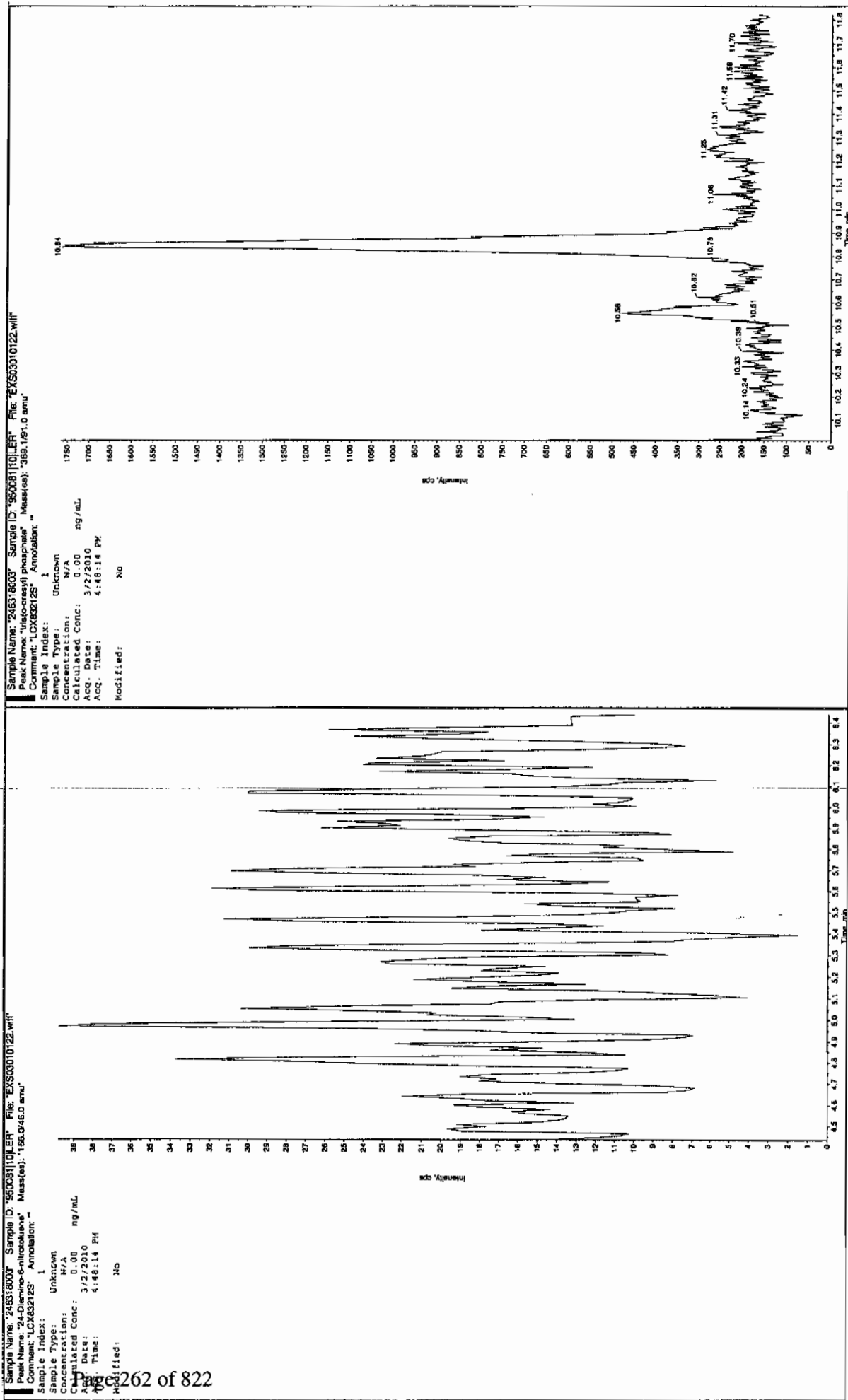
Acq. Date: 3/2/2010

Acq. Time: 4:48:14 PM

Modified: NO







1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7342

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318003

Sample Amount 2

Moisture: 5.6

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010081.wiff

Date Analyzed: 02-MAR-10 06:02

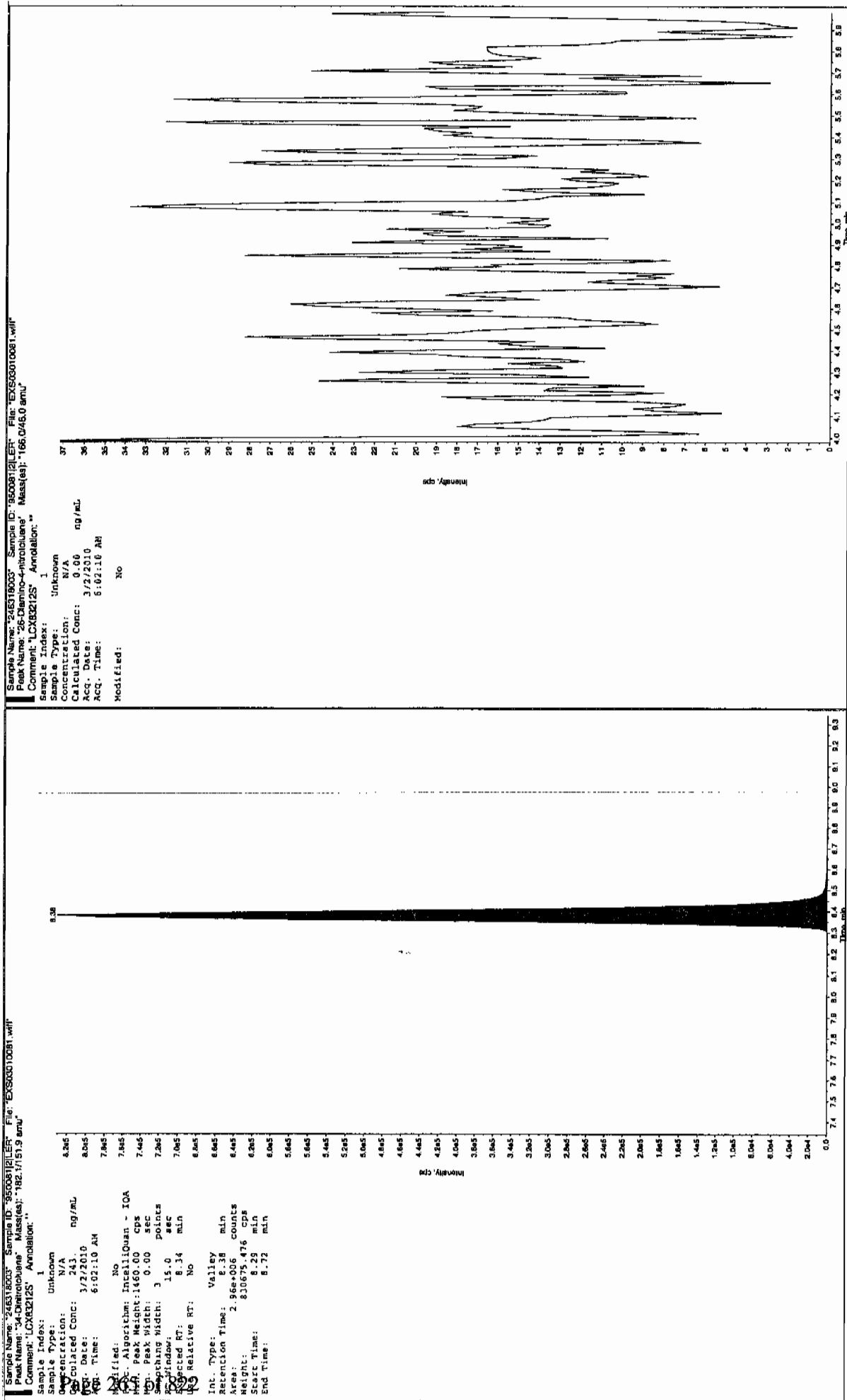
Units: ug/kg

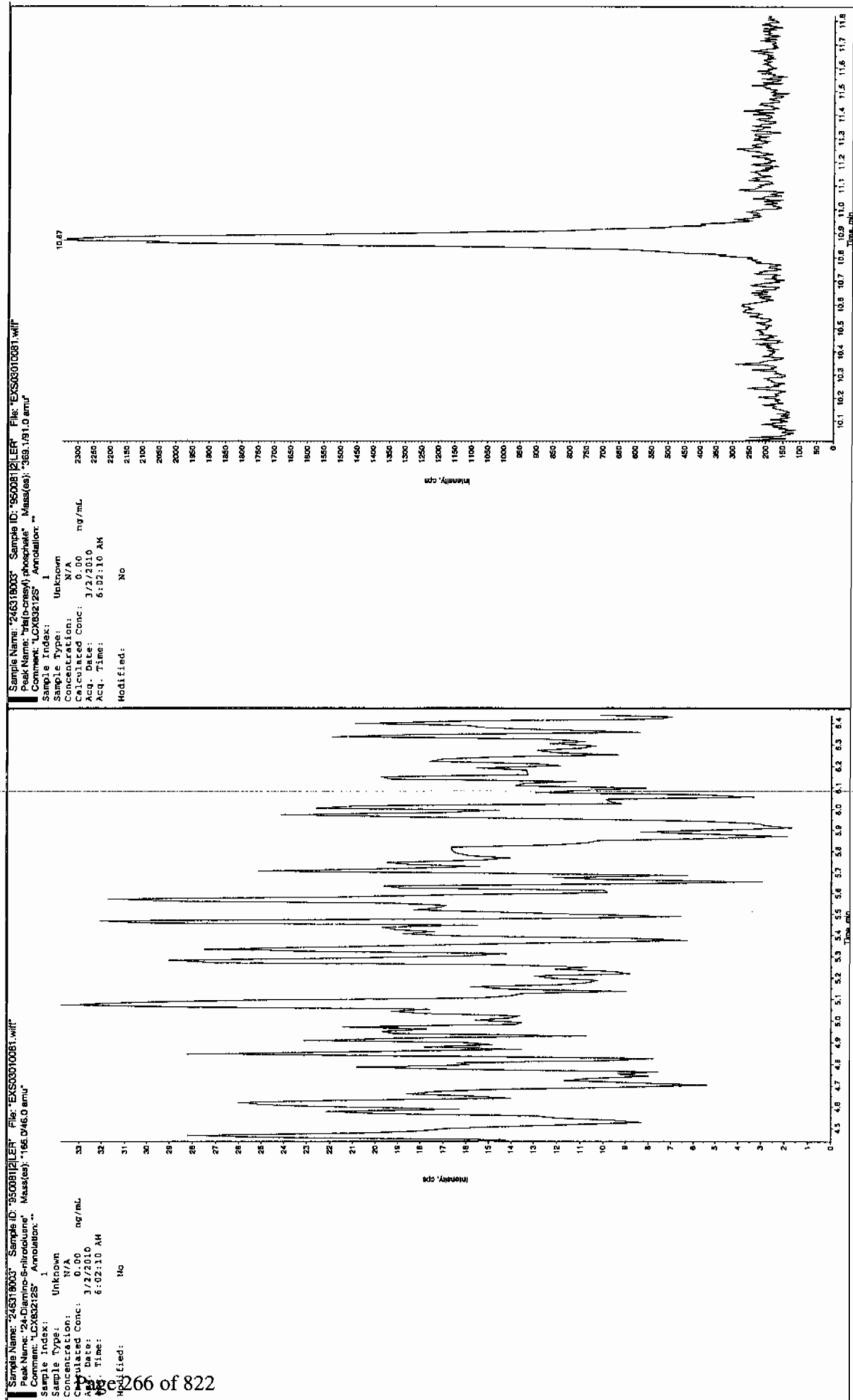
Cas No.	Compound	Concentration*	Q
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

\*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: RE15-10-7336

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318004

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312082.wiff

Date Analyzed: 13-MAR-10 19:37

Units: ug/kg

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

\*Concentration =

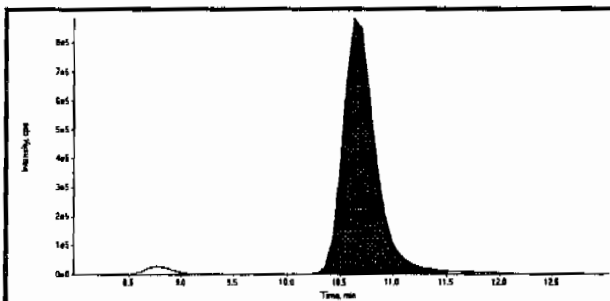
Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amount		Factor



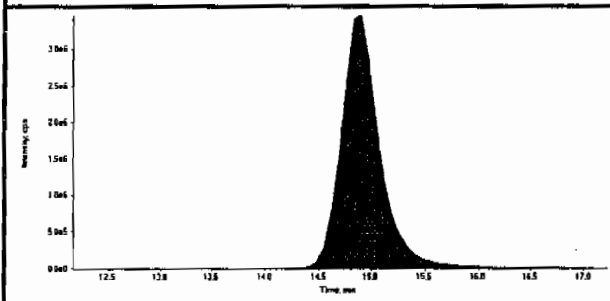
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

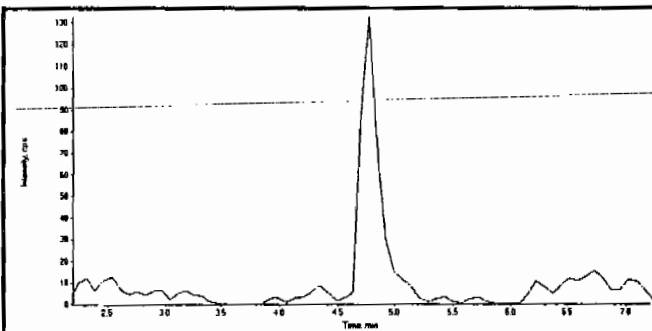
Data File	EXP0312082.wiff	Acquisition Date	3/13/2010 7:37:59 PM
Sample Name	246318004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



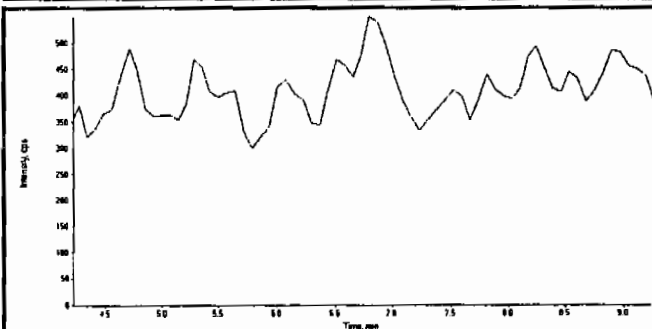
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	89600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*Handwritten signature*  
3/24/10

*Handwritten signature*  
07/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312082.wiff	<b>Acquisition Date</b>	3/13/2010 7:37:59 PM
<b>Sample Name</b>	246318004	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

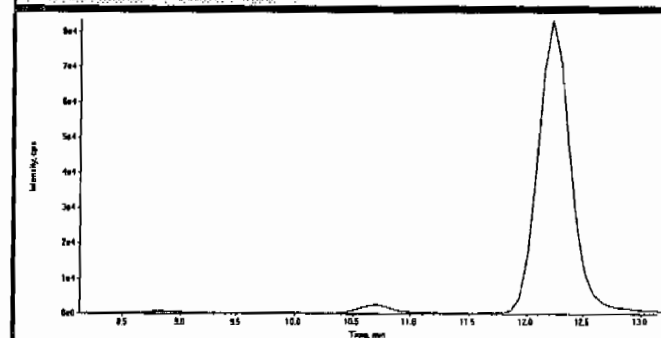
  

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

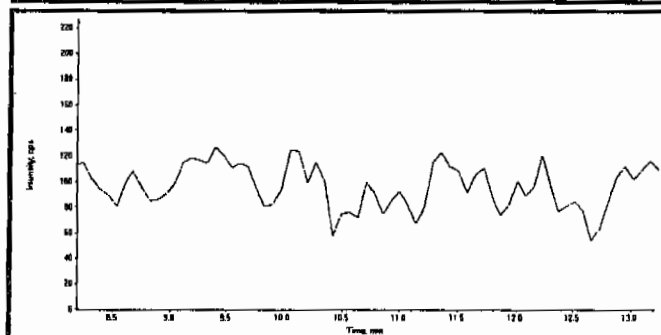
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

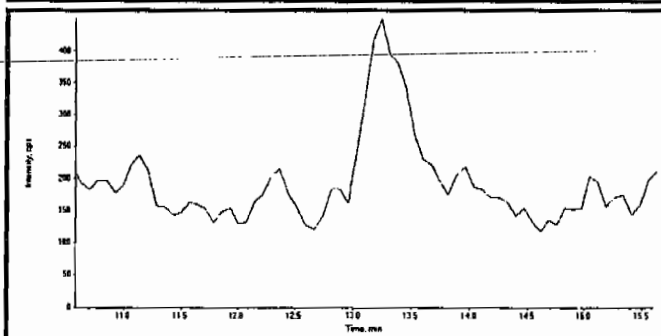
Data File	EXP0312082.wiff	Acquisition Date	3/13/2010 7:37:59 PM
Sample Name	246318004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



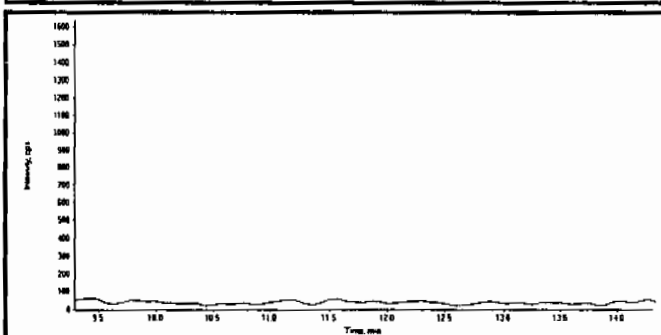
Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
Expected RT:	10.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	Tetryl (241.0/180.8 amu)
Expected RT:	10.7
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
Expected RT:	13.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	Nitrobenzene (123.0/46.0 amu)
Expected RT:	11.8
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312082.wiff	<b>Acquisition Date</b>	3/13/2010 7:37:59 PM
<b>Sample Name</b>	246318004	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	5.22e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	237. (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	14.8
	<b>Area Counts:</b>	8.76e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

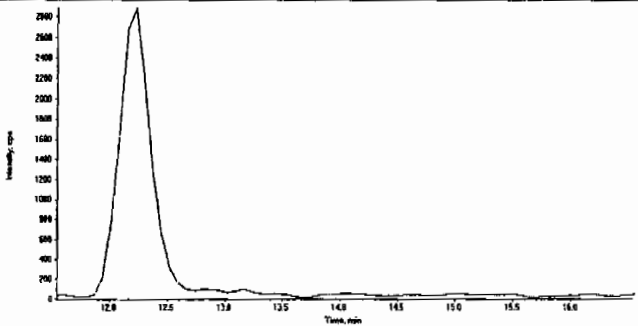
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

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

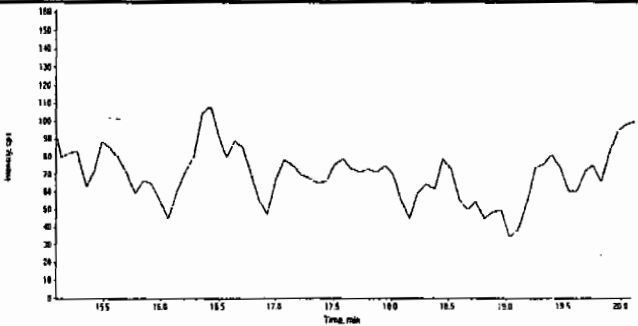
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312082.wiff	Acquisition Date	3/13/2010 7:37:59 PM
Sample Name	246318004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

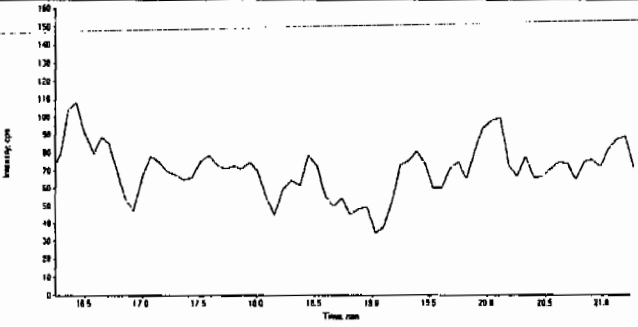
  

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

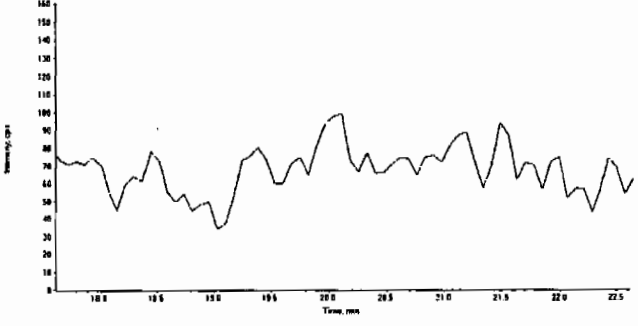
  

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

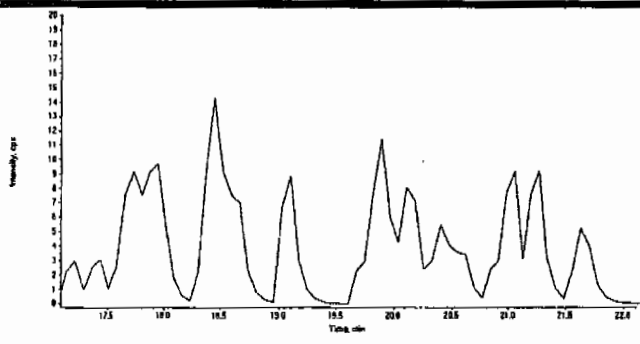
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312082.wiff	Acquisition Date	3/13/2010 7:37:59 PM
Sample Name	246318004	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7336

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318004

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010119.wiff

Date Analyzed: 02-MAR-10 16:01

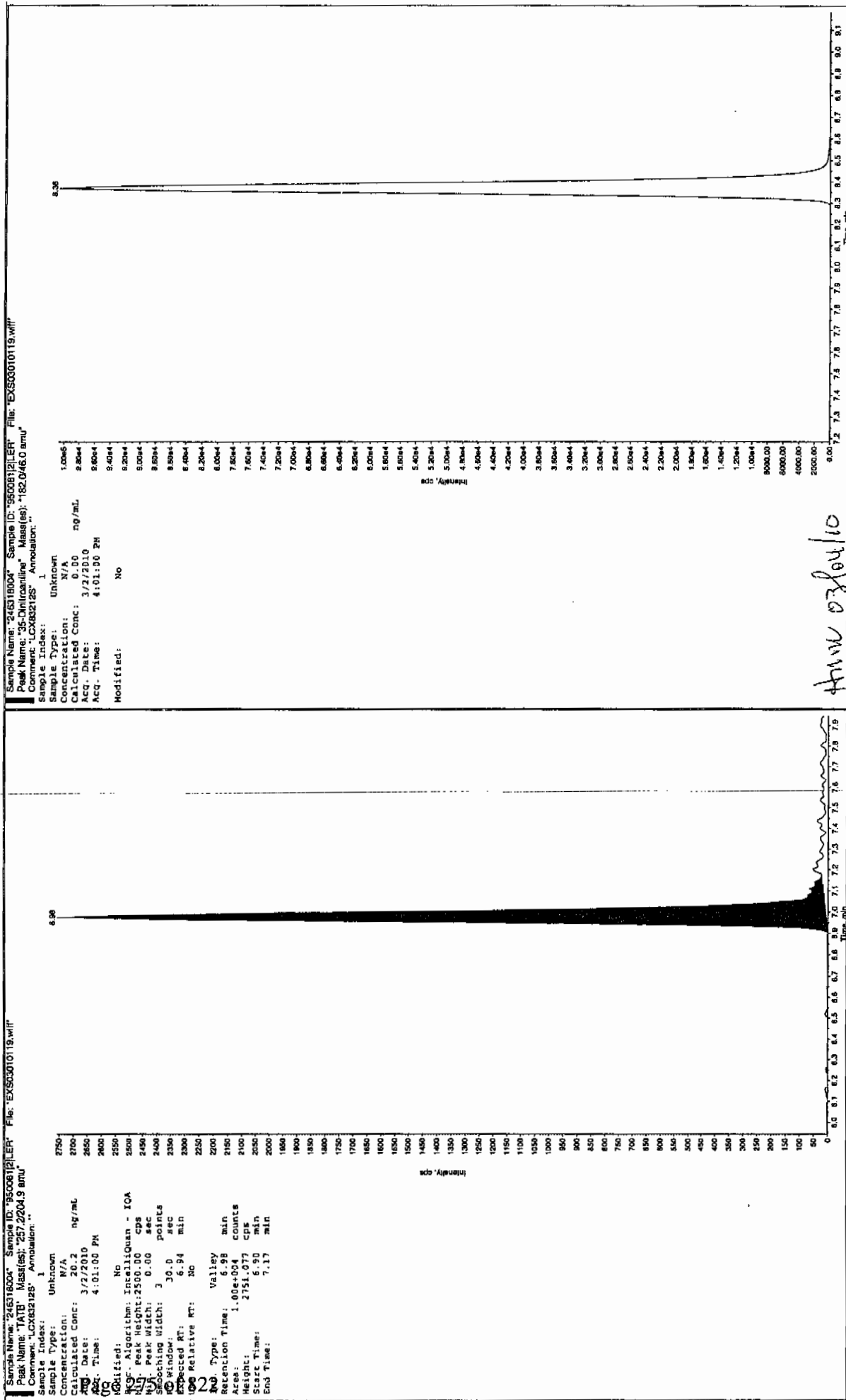
Units: ug/kg

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

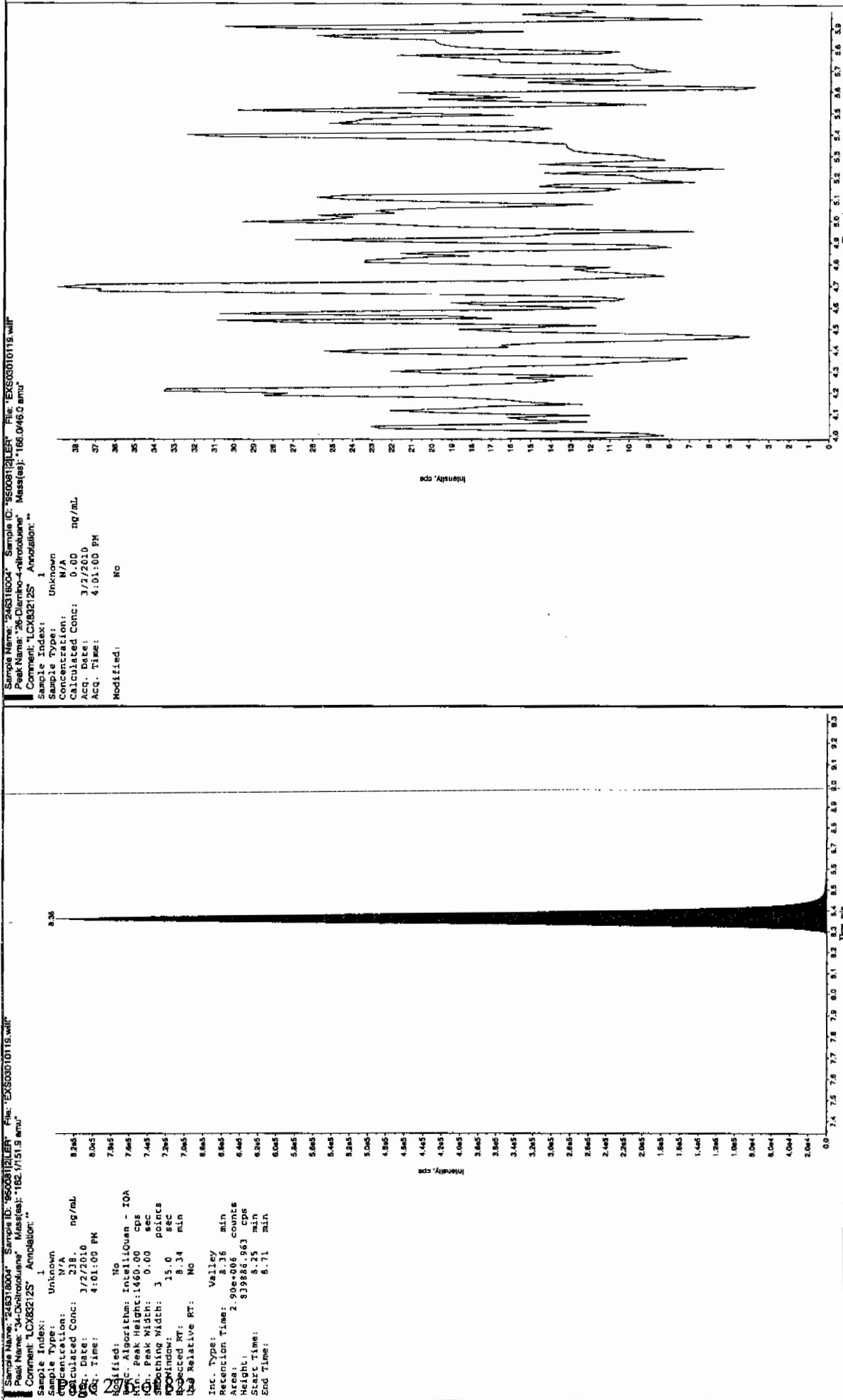
\*Concentration =

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

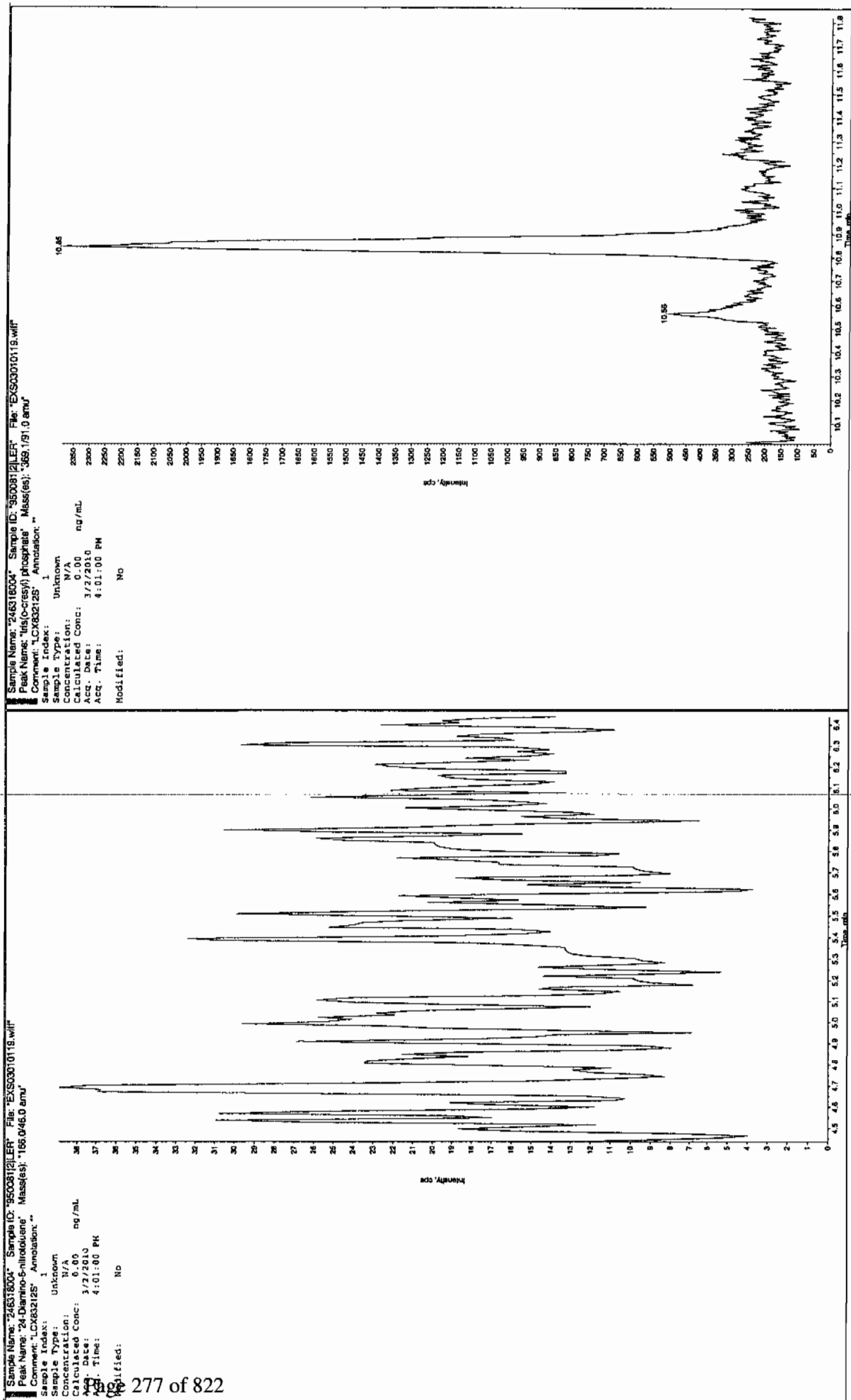
01/26/10  
HAW







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



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312083.wiff

Date Analyzed: 13-MAR-10 20:04

Units: ug/kg

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

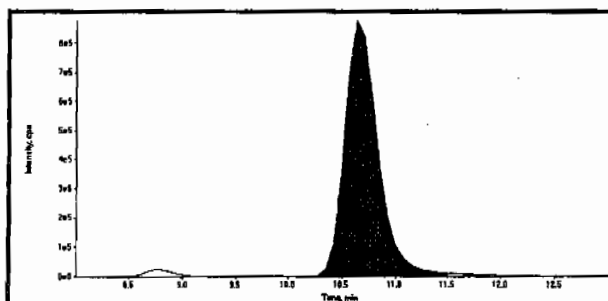
\*Concentration =

Instrument		X	Concentrated Extract Volume		X	Dilution
Value			Sample Amount			Factor

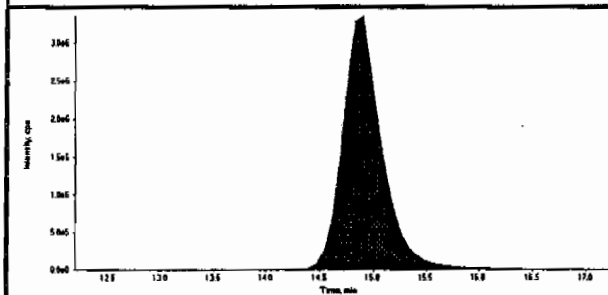
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

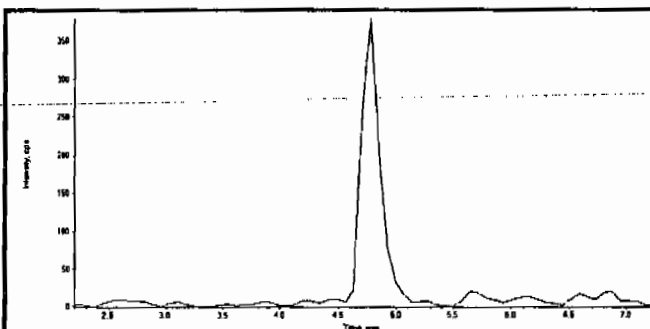
Data File	EXP0312083.wiff	Acquisition Date	3/13/2010 8:04:26 PM
Sample Name	246318005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



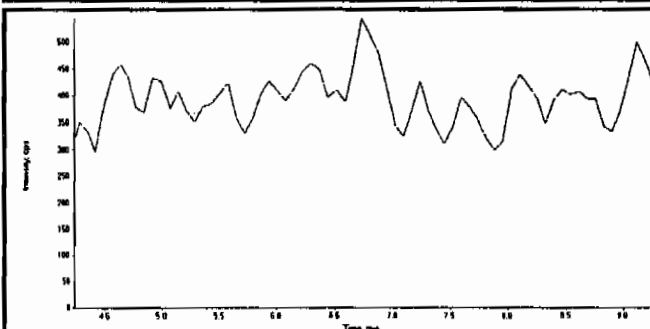
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	86400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

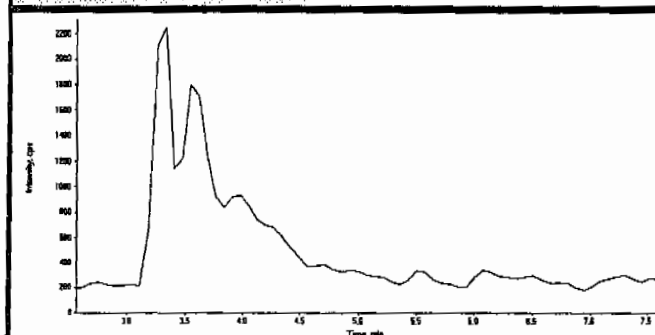
*LER*  
3/24/10

*HMC*  
03/24/10

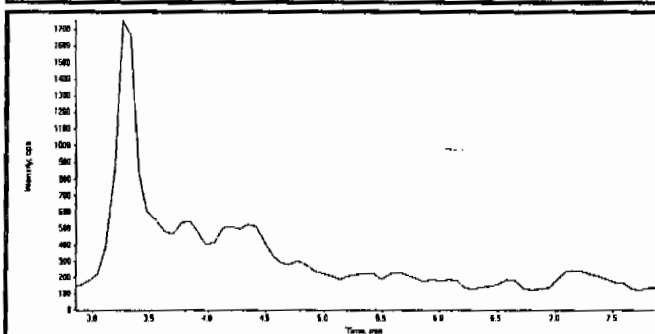
GEL Laboratories, LLC  
 GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
 LCMSMS#3

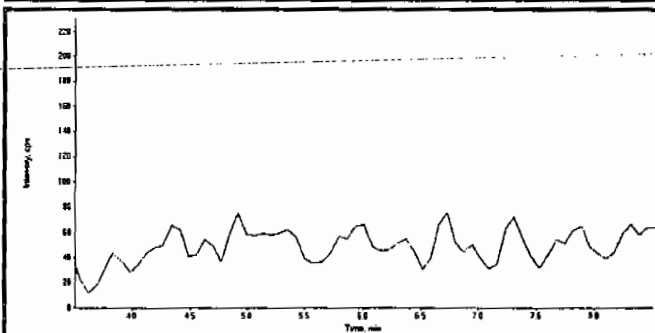
Data File	EXP0312083.wiff	Acquisition Date	3/13/2010 8:04:26 PM
Sample Name	246318005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



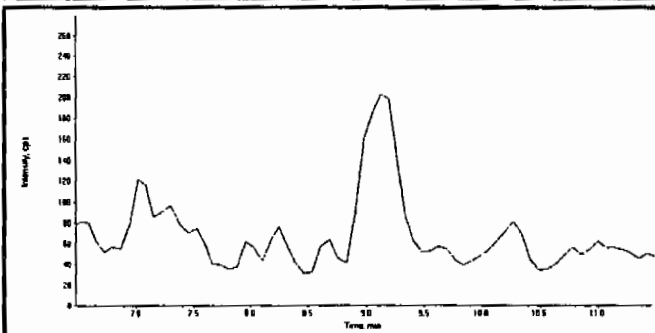
Compound Name:	TNX (219.0/45.0 amu)
Expected RT:	5.06
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	DNX (235.0/45.0 amu)
Expected RT:	5.35
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	MNX (251.0/46.0 amu)
Expected RT:	6.00
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

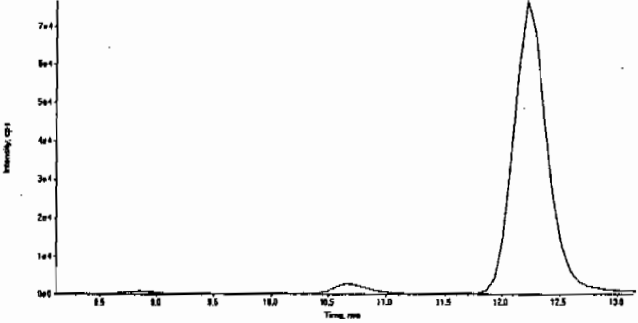


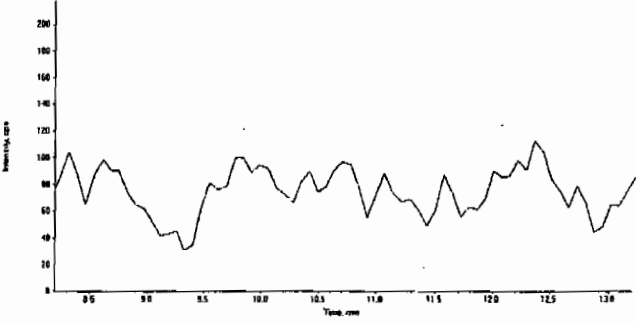
Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	8.97
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

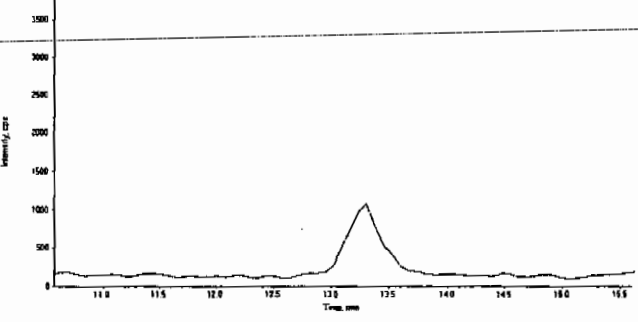
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

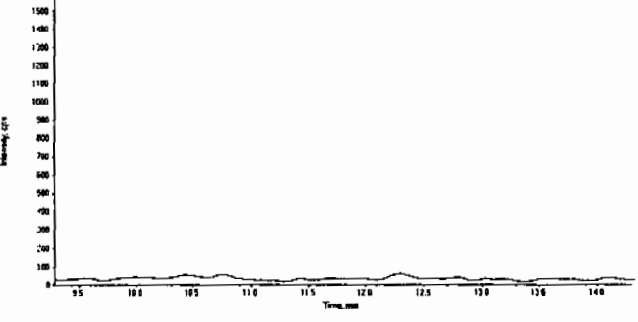
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312083.wiff	Acquisition Date	3/13/2010 8:04:26 PM
Sample Name	246318005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

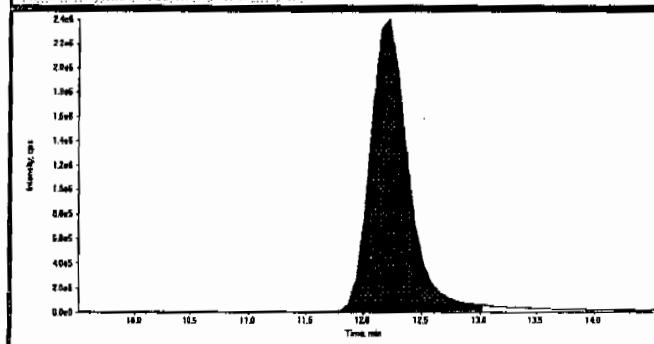
	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

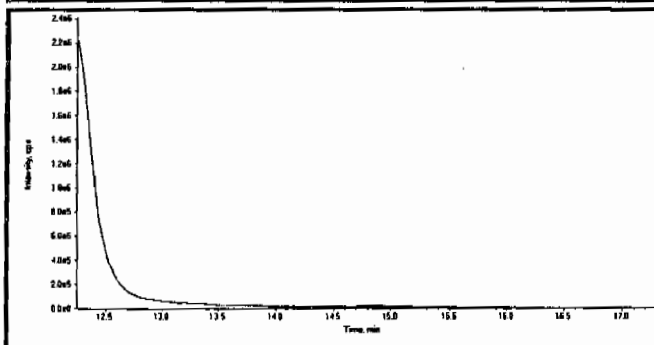
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

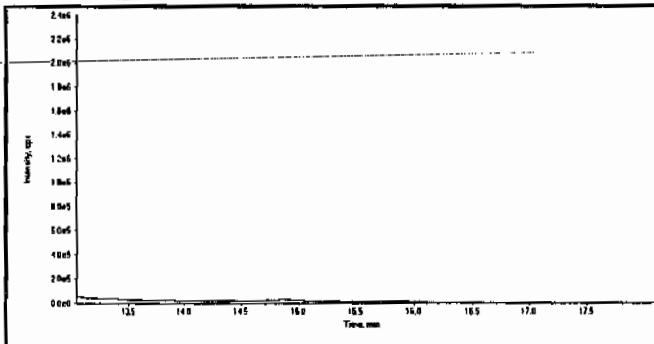
Data File	EXP0312083.wiff	Acquisition Date	3/13/2010 8:04:26 PM
Sample Name	246318005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



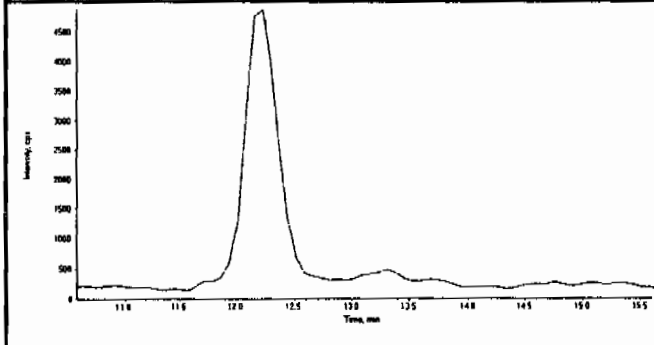
Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.0
Actual RT:	12.2
Area Counts:	5.49e+007
Manual Modification	No
Amount:	258. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.8
Actual RT:	14.9
Area Counts:	9.26e+005
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



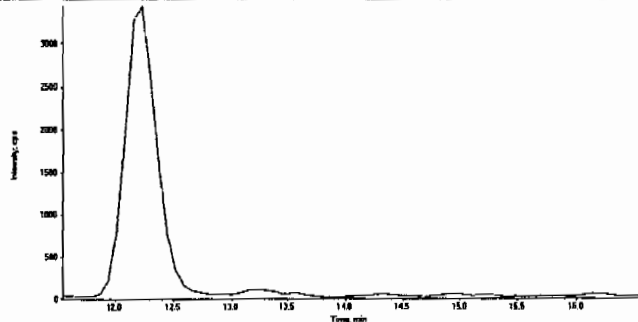
Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.1
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

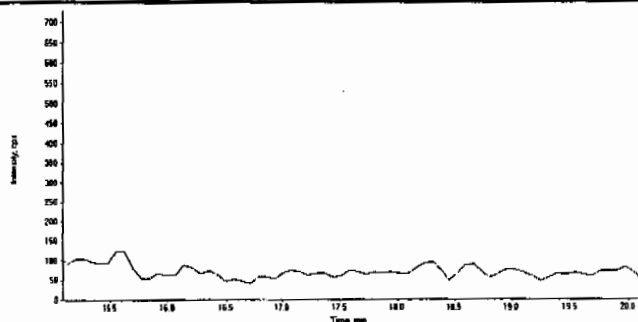
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312083.wiff	Acquisition Date	3/13/2010 8:04:26 PM
Sample Name	246318005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

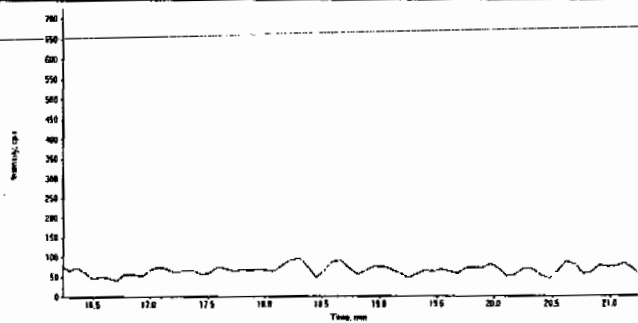
  

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

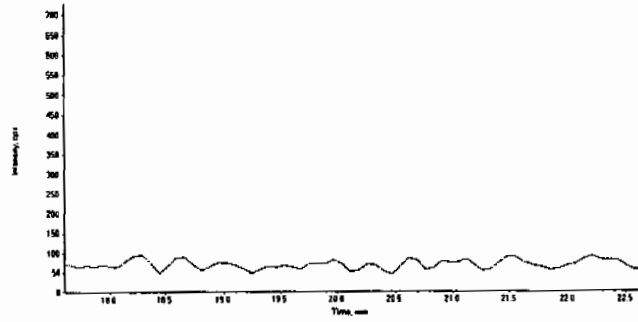
  

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

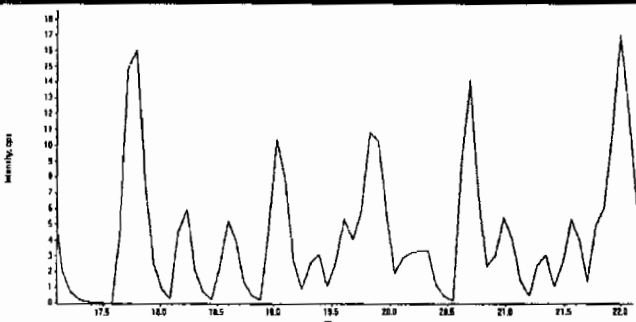
  

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312083.wiff	Acquisition Date	3/13/2010 8:04:26 PM
Sample Name	246318005	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 10

Injection Volume (uL): 50

GEL data file: EXS03010123.wiff

Date Analyzed: 02-MAR-10 17:03

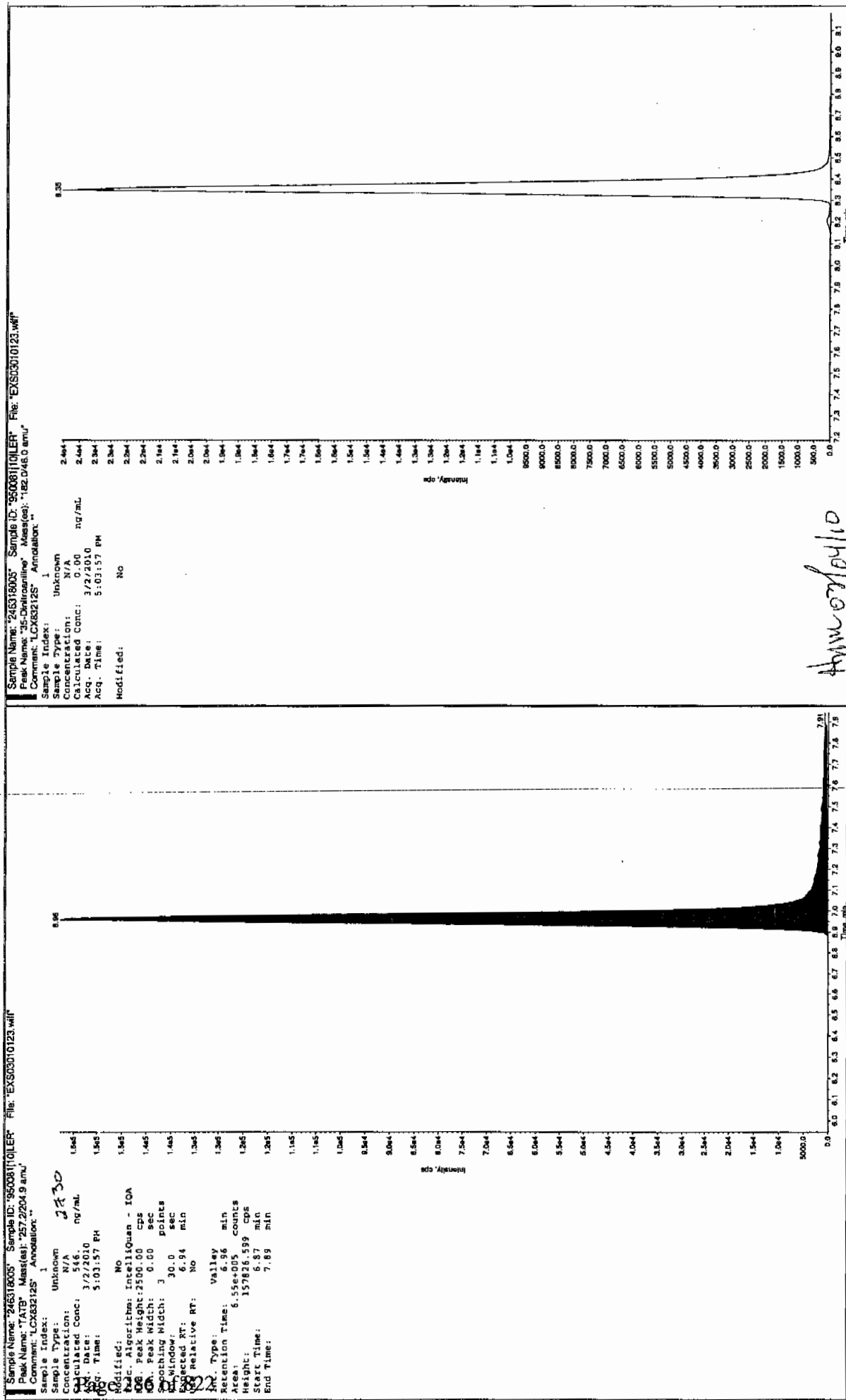
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	27300	

\*Concentration =

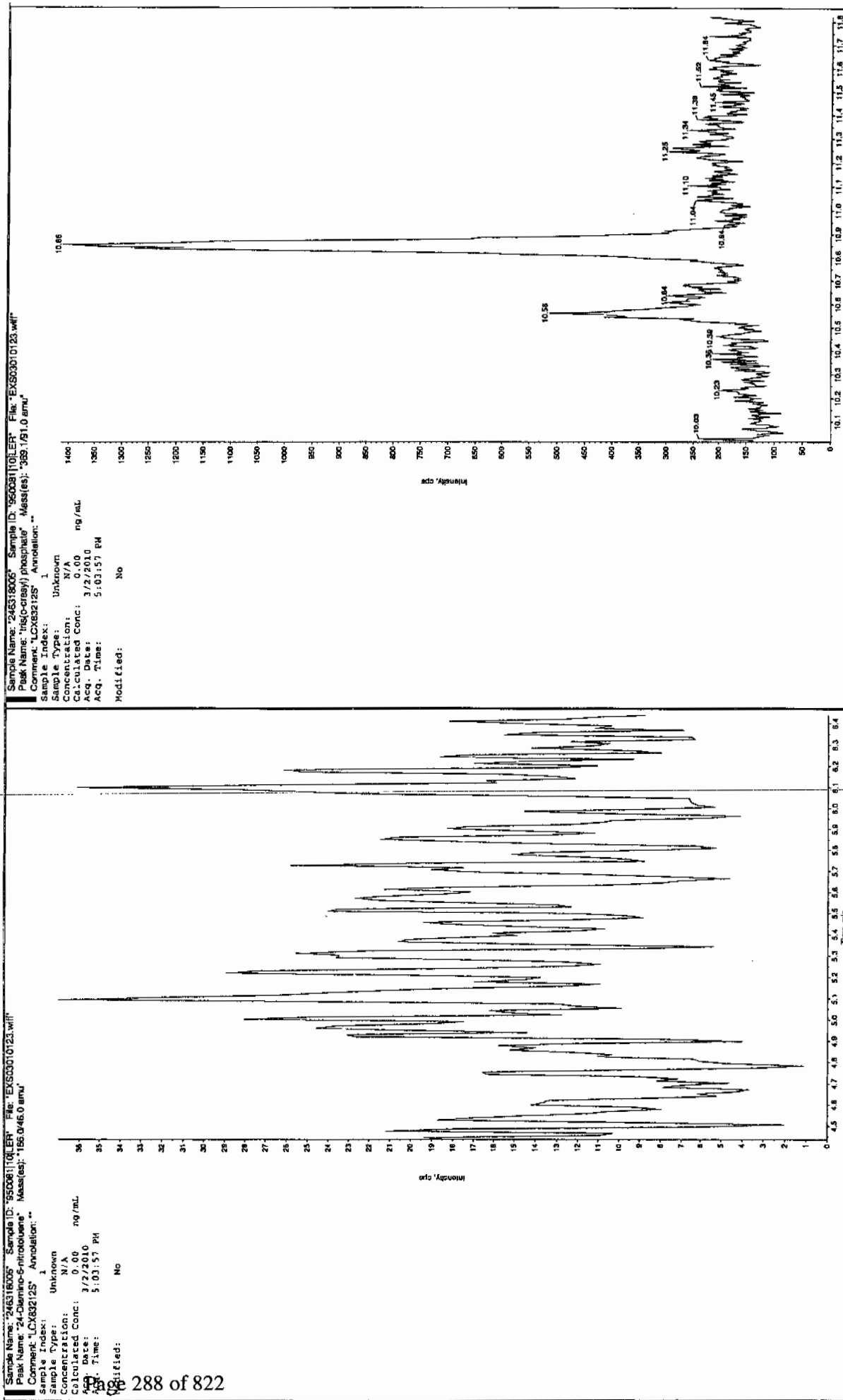
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor

Dist only  
 2/23/10



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





1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7337

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318005

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010083.wiff

Date Analyzed: 02-MAR-10 06:33

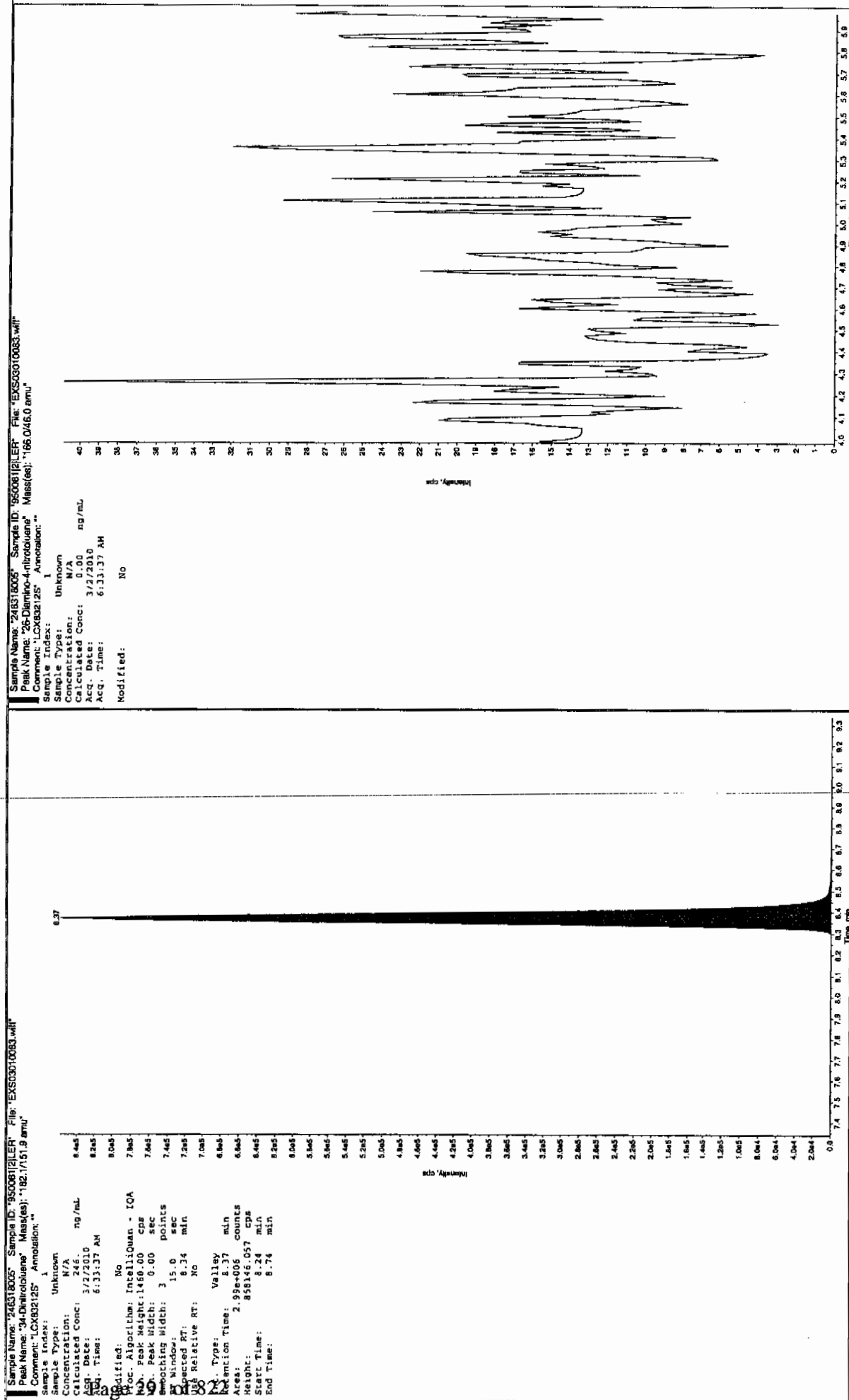
Units: ug/kg

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

\*Concentration =

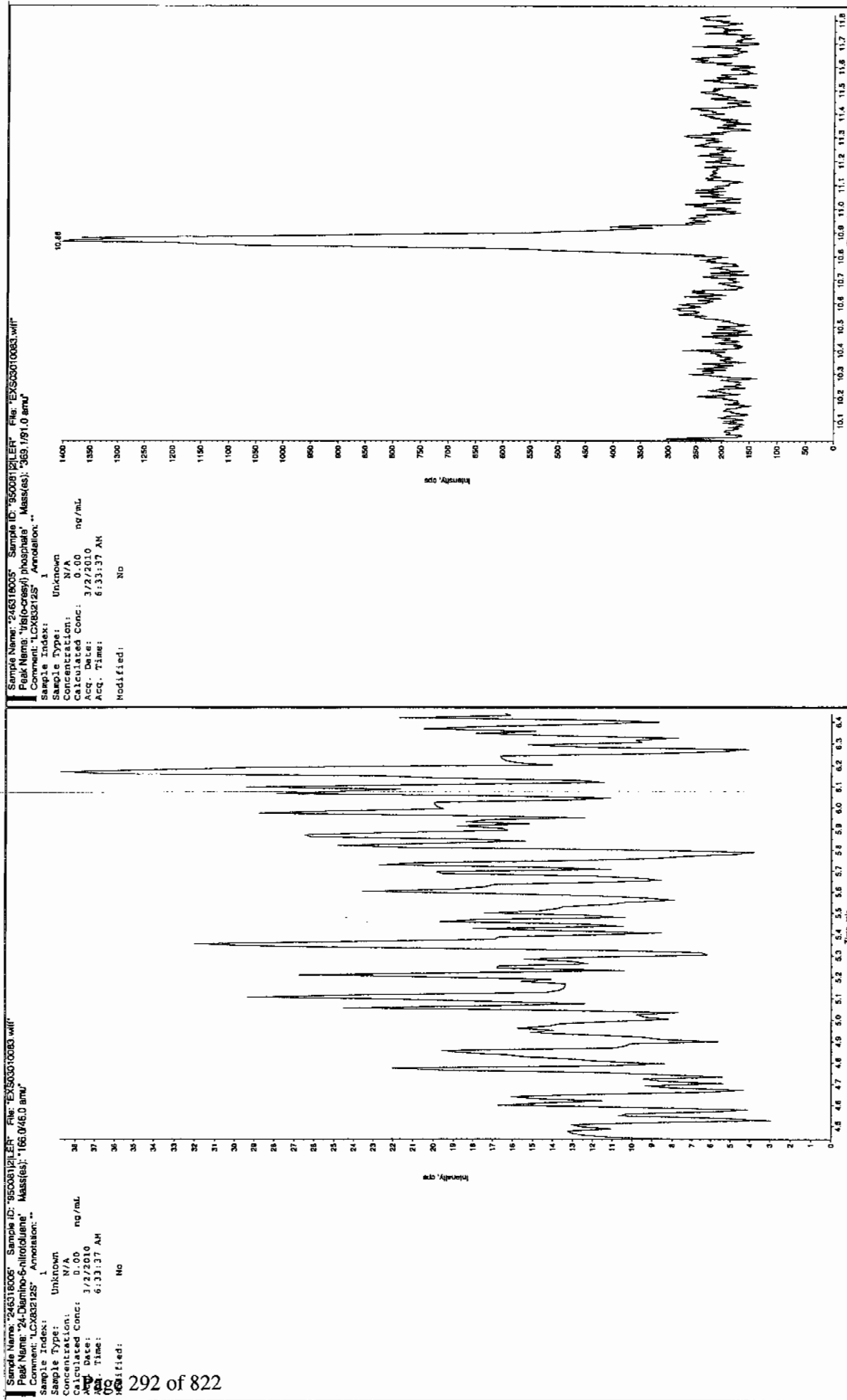
Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		





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





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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7334

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318006

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312084.wiff

Date Analyzed: 13-MAR-10 20:30

Units: ug/kg

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

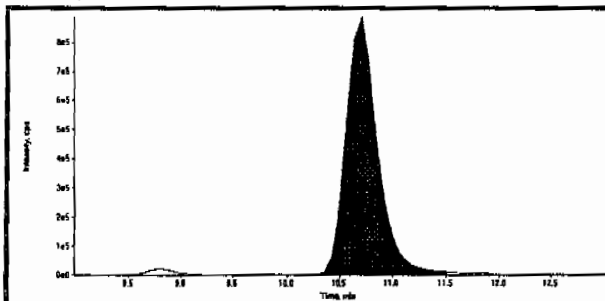
\*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

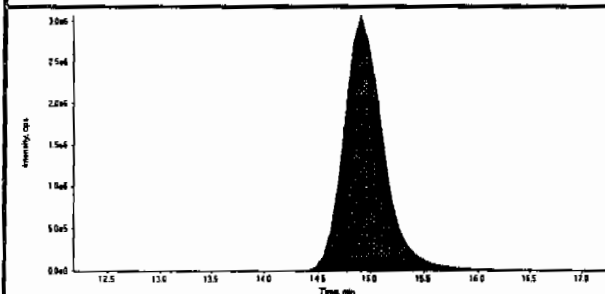
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

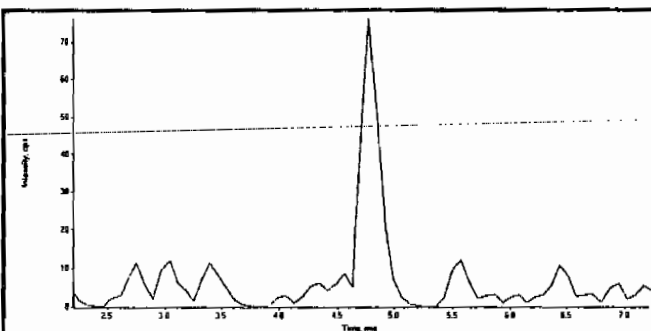
Data File	EXP0312084.wiff	Acquisition Date	3/13/2010 8:30:51 PM
Sample Name	246318006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



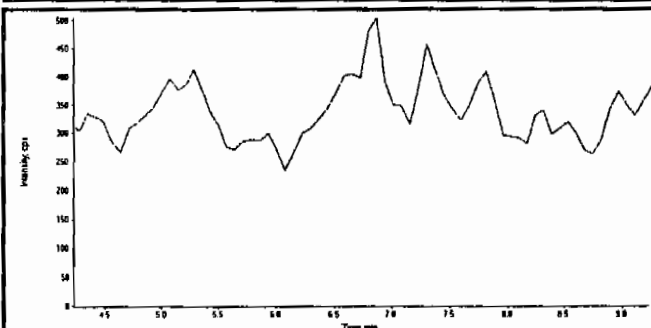
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	80800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*Handwritten signatures and dates:*  
 LER 3/24/10  
 HMX 03/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312084.wiff	<b>Acquisition Date</b>	3/13/2010 8:30:51 PM
<b>Sample Name</b>	246318006	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312084.wiff	<b>Acquisition Date</b>	3/13/2010 8:30:51 PM
<b>Sample Name</b>	246318006	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312084.wiff	<b>Acquisition Date</b>	3/13/2010 8:30:51 PM
<b>Sample Name</b>	246318006	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.88e+007
	Manual Modification	No
	Amount:	245. (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	8.67e+005
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

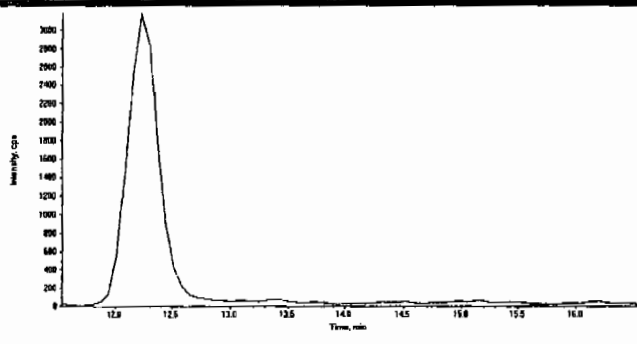
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

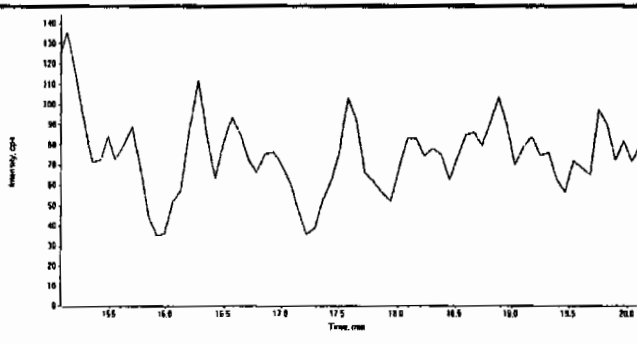
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312084.wiff	<b>Acquisition Date</b>	3/13/2010 8:30:51 PM
<b>Sample Name</b>	246318006	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

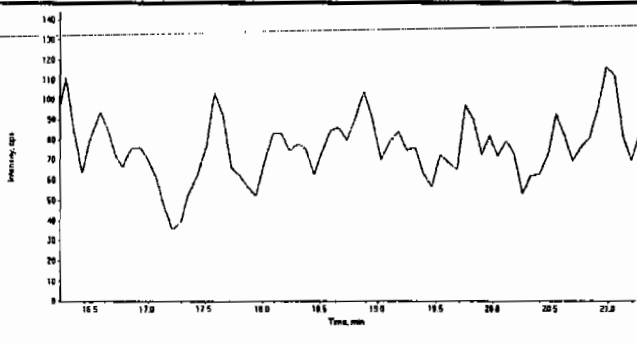
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

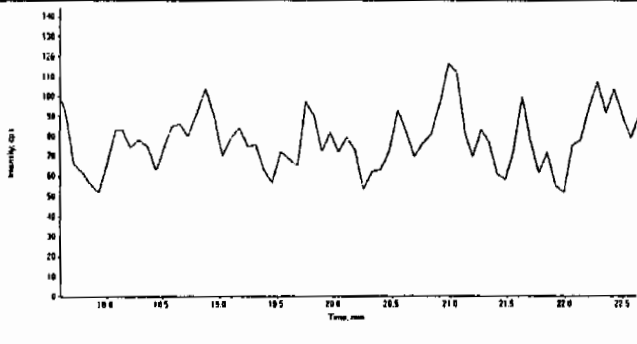
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

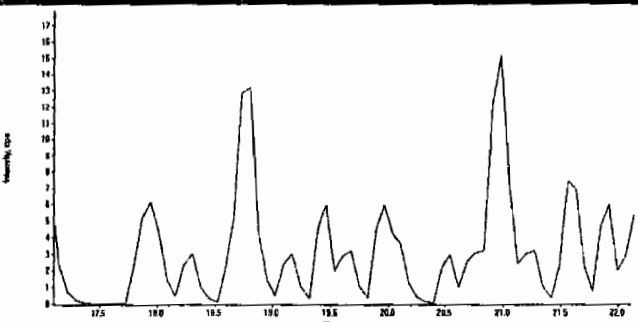
	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312084.wiff	Acquisition Date	3/13/2010 8:30:51 PM
Sample Name	246318006	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7334

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318006

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010120.wiff

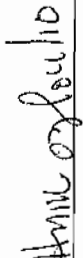
Date Analyzed: 02-MAR-10 16:16

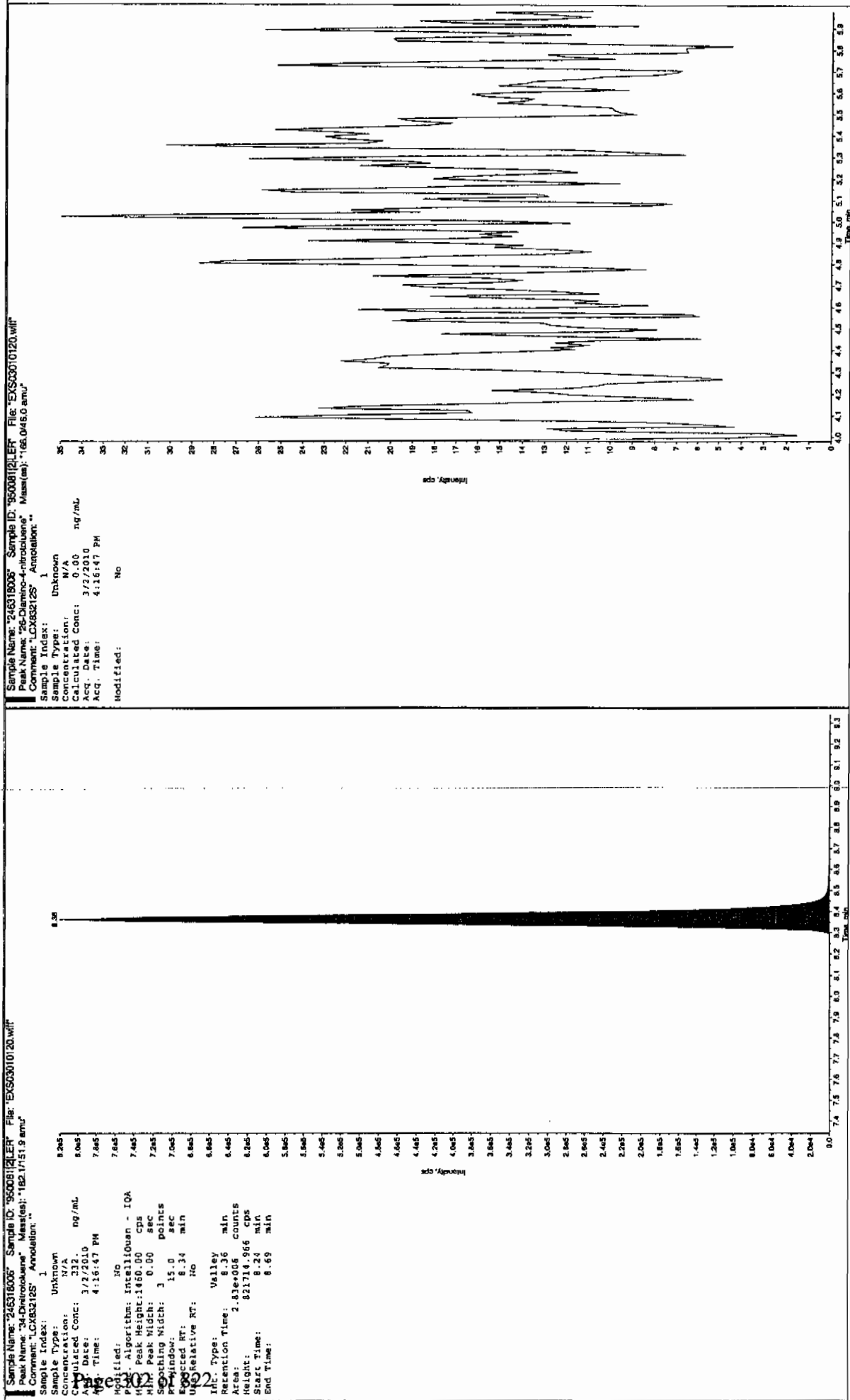
Units: ug/kg

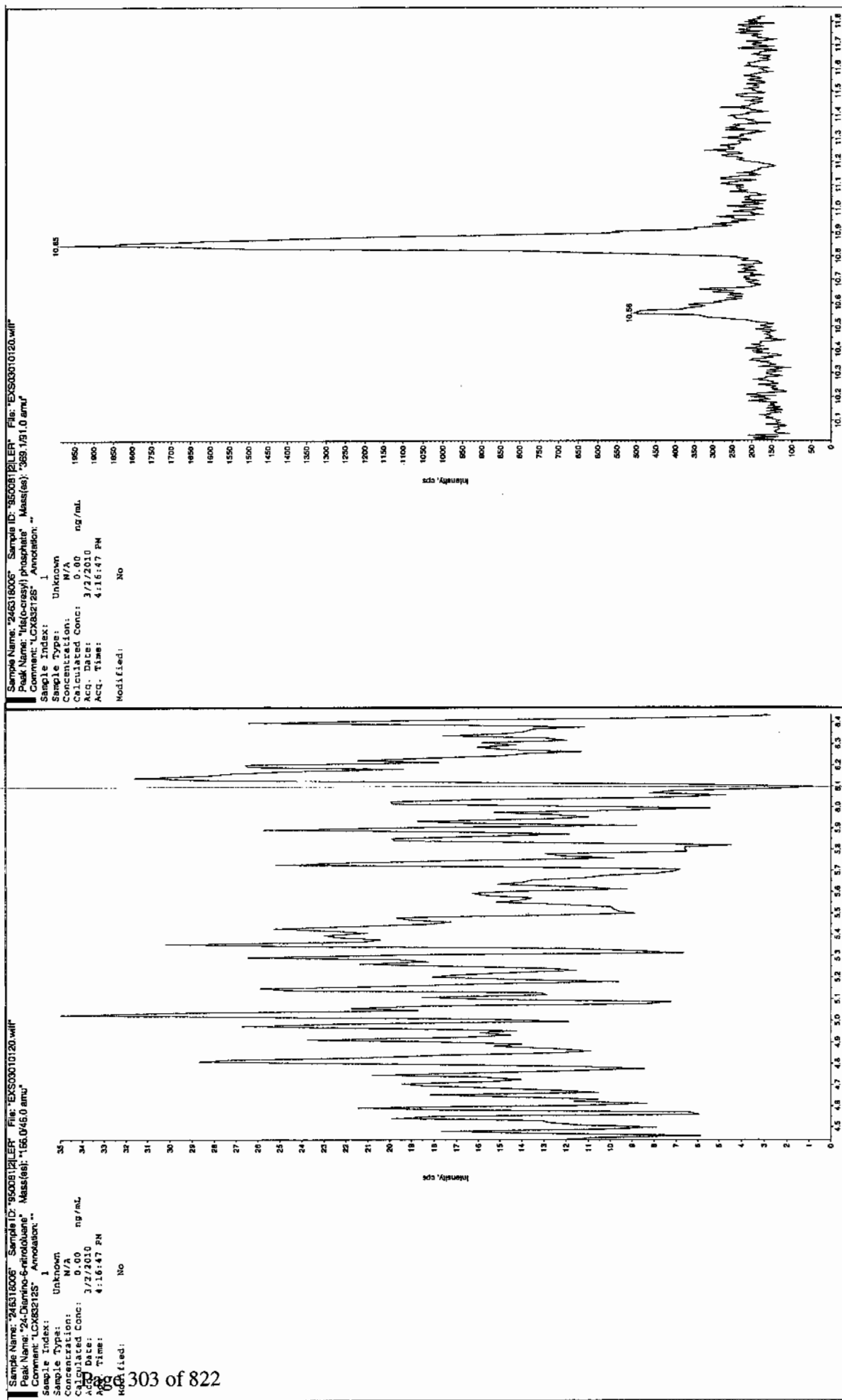
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	327	J
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

\*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: RE15-10-7335

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318007

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312085.wiff

Date Analyzed: 13-MAR-10 20:57

Units: ug/kg

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

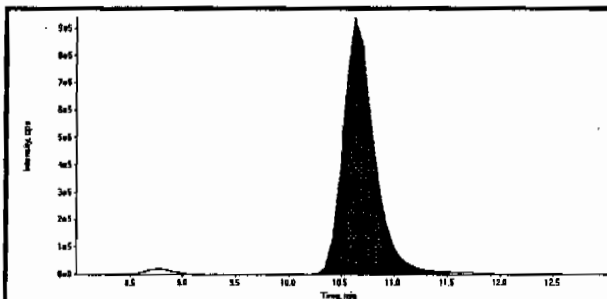
\*Concentration =

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

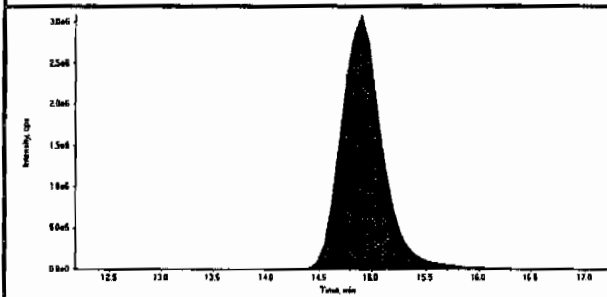
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

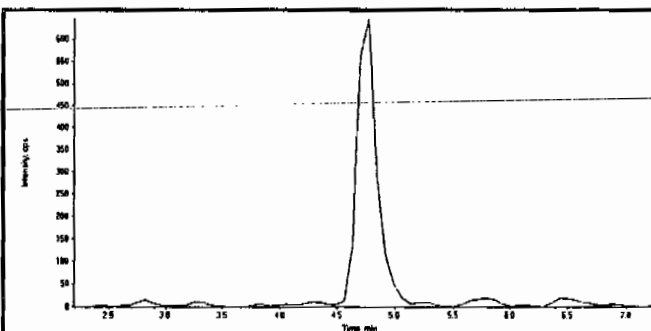
Data File	EXP0312085.wiff	Acquisition Date	3/13/2010 8:57:17 PM
Sample Name	246318007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



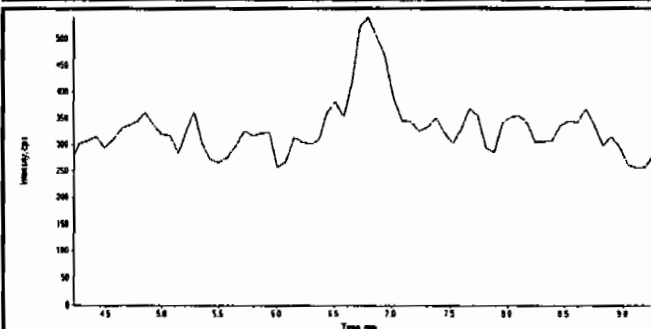
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	83900000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*San*  
3/24/10

*HMC*  
3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312085.wiff	<b>Acquisition Date</b>	3/13/2010 8:57:17 PM
<b>Sample Name</b>	246318007	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312085.wiff	<b>Acquisition Date</b>	3/13/2010 8:57:17 PM
<b>Sample Name</b>	246318007	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312085.wiff	<b>Acquisition Date</b>	3/13/2010 8:57:17 PM
<b>Sample Name</b>	246318007	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	5.05e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	244. (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

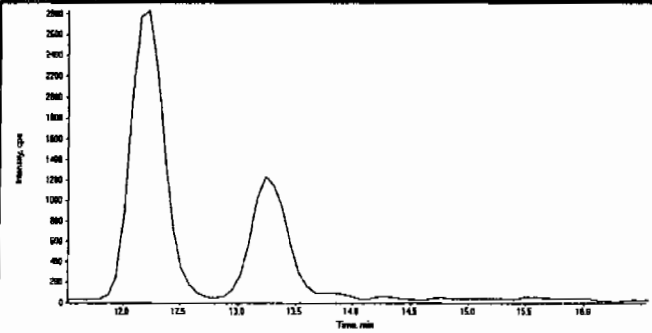
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	1.17e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	0.751 (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

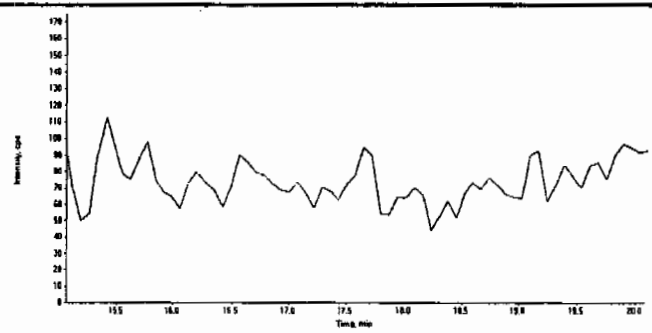
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312085.wiff	<b>Acquisition Date</b>	3/13/2010 8:57:17 PM
<b>Sample Name</b>	246318007	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

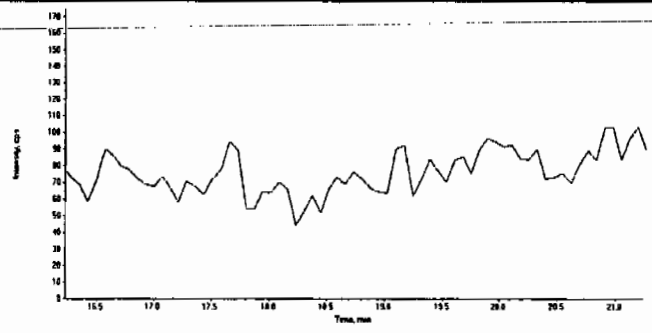
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

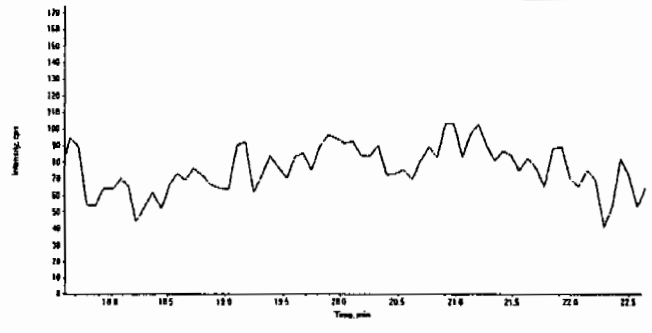
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

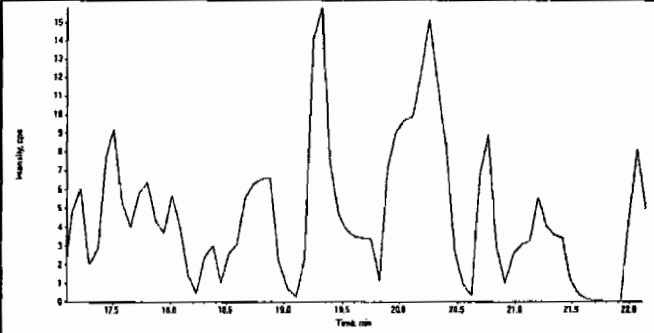
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312085.wiff	Acquisition Date	3/13/2010 8:57:17 PM
Sample Name	246318007	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7335

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318007

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010085.wiff

Date Analyzed: 02-MAR-10 07:05

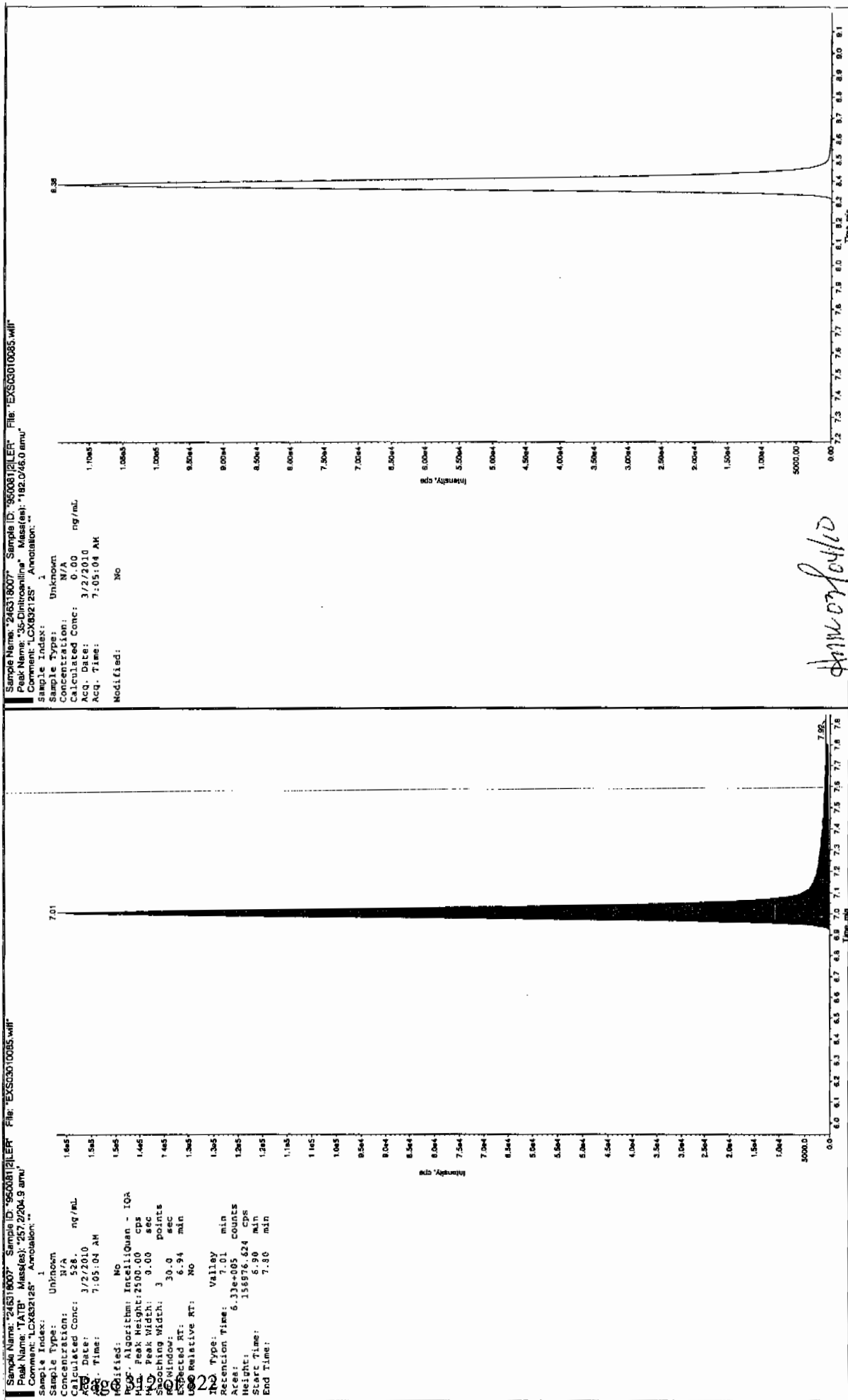
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5280	
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

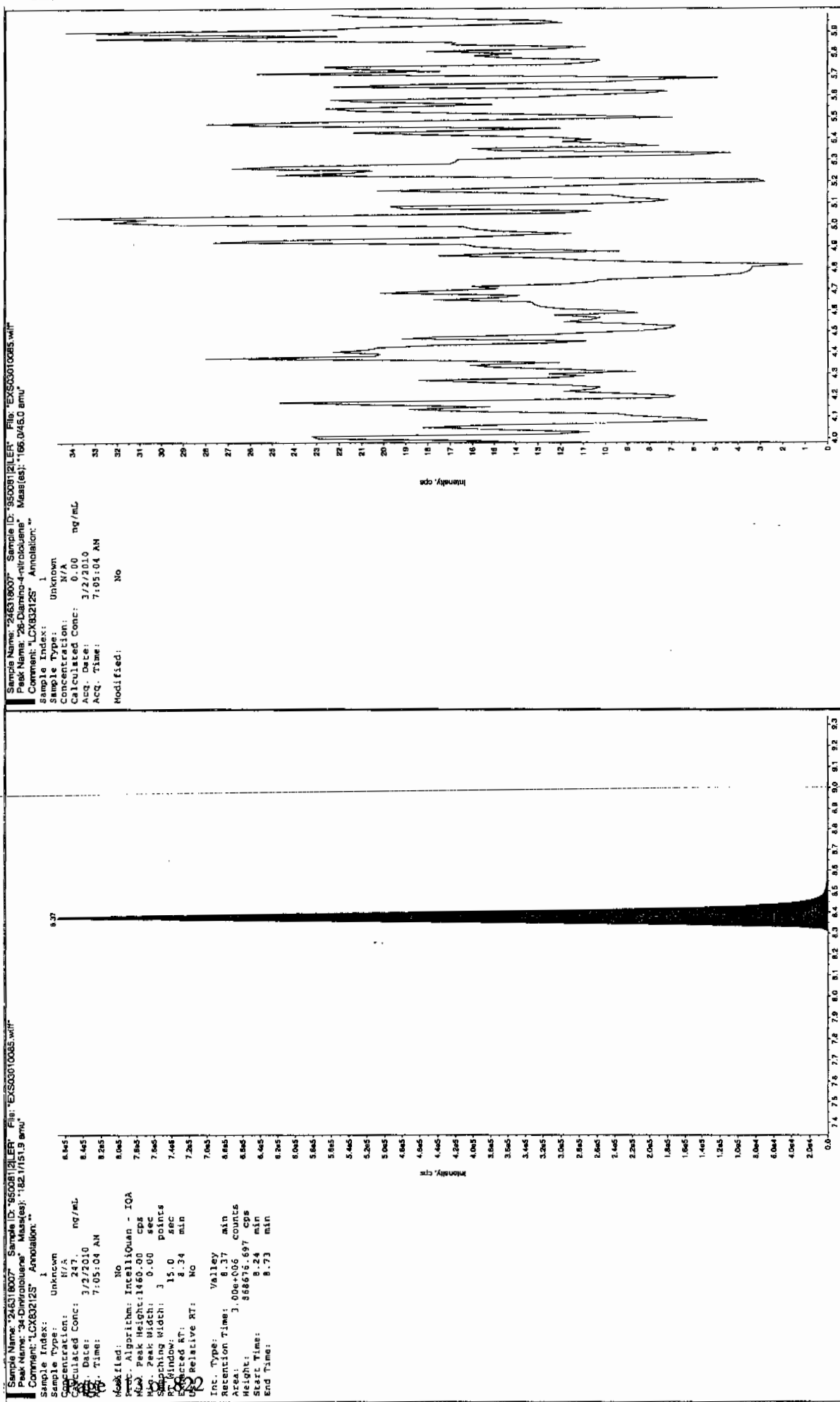
\*Concentration =

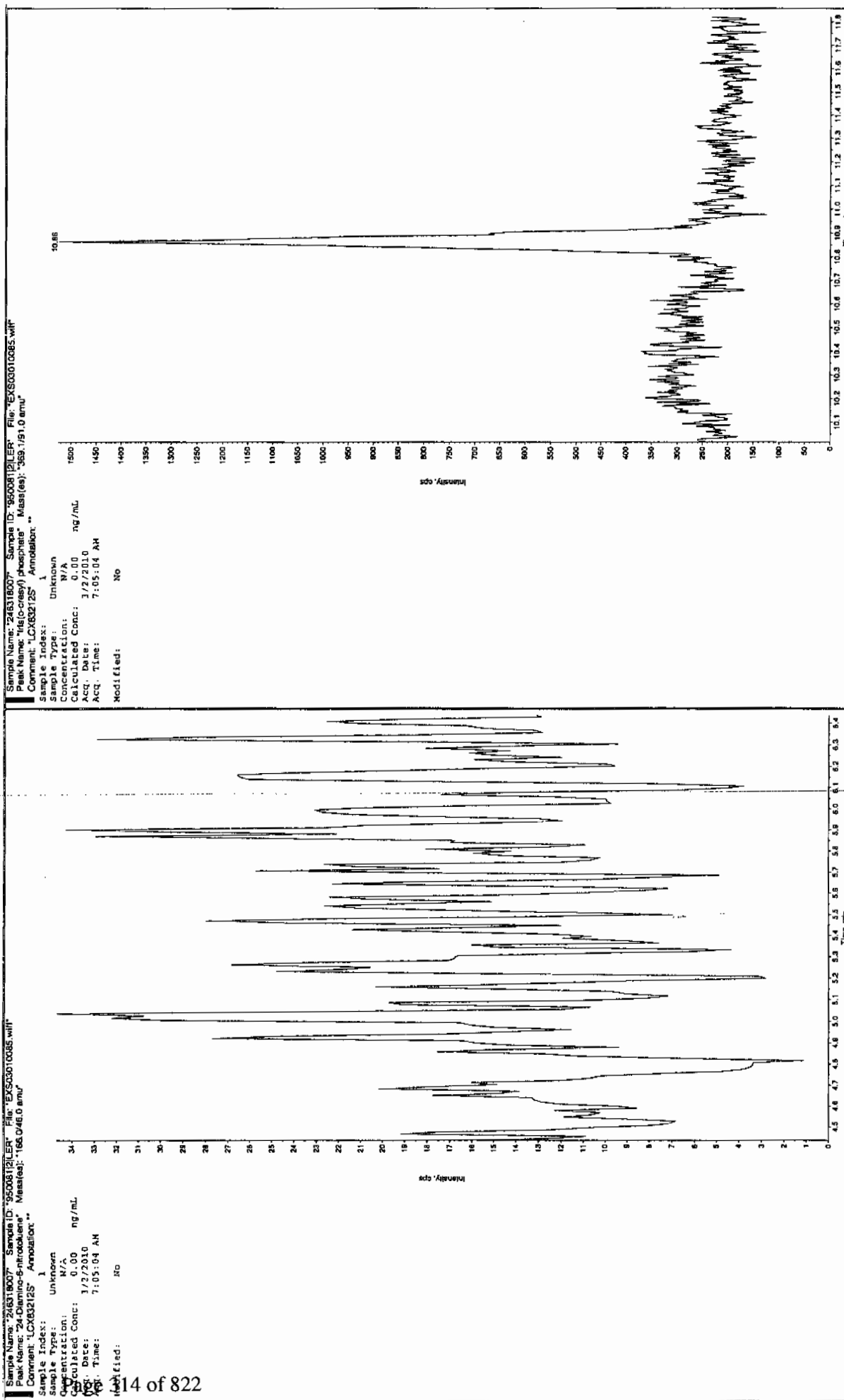
Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Jan 3/3/10



Jan 3/3/10





1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7338

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318008

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312086.wiff

Date Analyzed: 13-MAR-10 21:23

Units: ug/kg

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

\*Concentration =

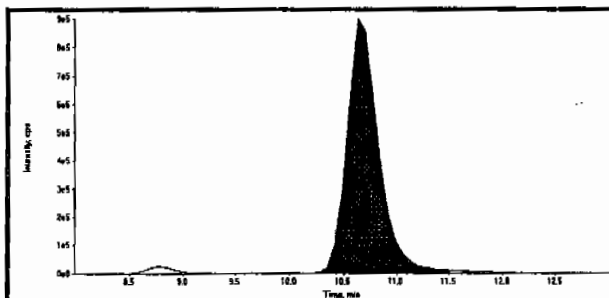
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor



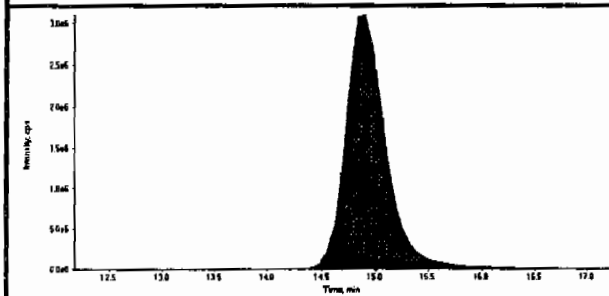
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

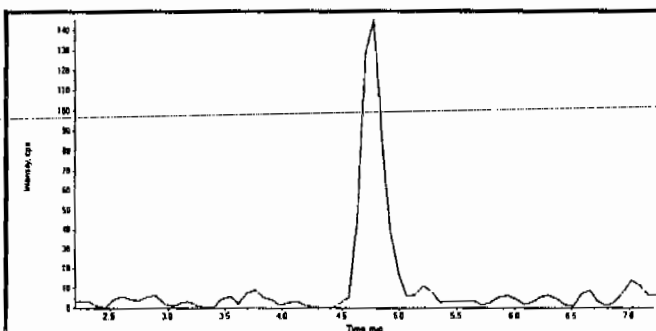
Data File	EXP0312086.wiff	Acquisition Date	3/13/2010 9:23:47 PM
Sample Name	246318008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



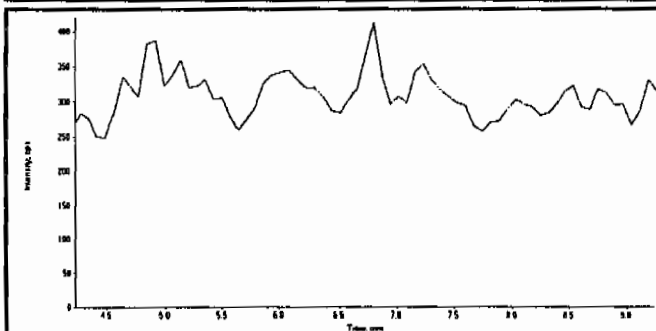
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	18800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	83200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*Handwritten signatures and dates:*  
 Ler 3/24/10  
 HMC 03/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312086.wiff	<b>Acquisition Date</b>	3/13/2010 9:23:47 PM
<b>Sample Name</b>	246318008	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312086.wiff	<b>Acquisition Date</b>	3/13/2010 9:23:47 PM
<b>Sample Name</b>	246318008	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312086.wiff	<b>Acquisition Date</b>	3/13/2010 9:23:47 PM
<b>Sample Name</b>	246318008	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	4.97e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	242. (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	14.9
	<b>Area Counts:</b>	8.39e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312086.wiff	<b>Acquisition Date</b>	3/13/2010 9:23:47 PM
<b>Sample Name</b>	246318008	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

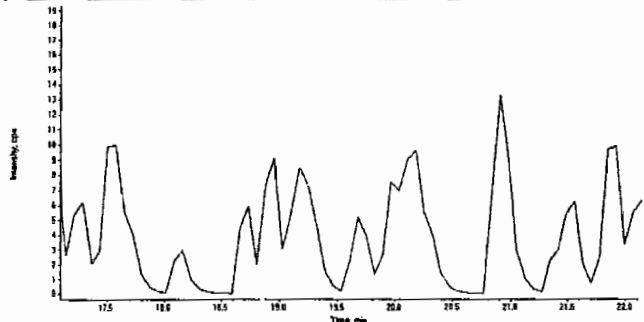
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312086.wiff	Acquisition Date	3/13/2010 9:23:47 PM
Sample Name	246318008	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7338

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318008

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010086.wiff

Date Analyzed: 02-MAR-10 07:20

Units: ug/kg

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

\*Concentration =

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

Jan 3/3/10

Sample Name: "245318008" Sample ID: "95008121ER" File: "EX903010086.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.045.0 amu"

Comment: "LCX632125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 7:20:47 AM  
 Modified: No

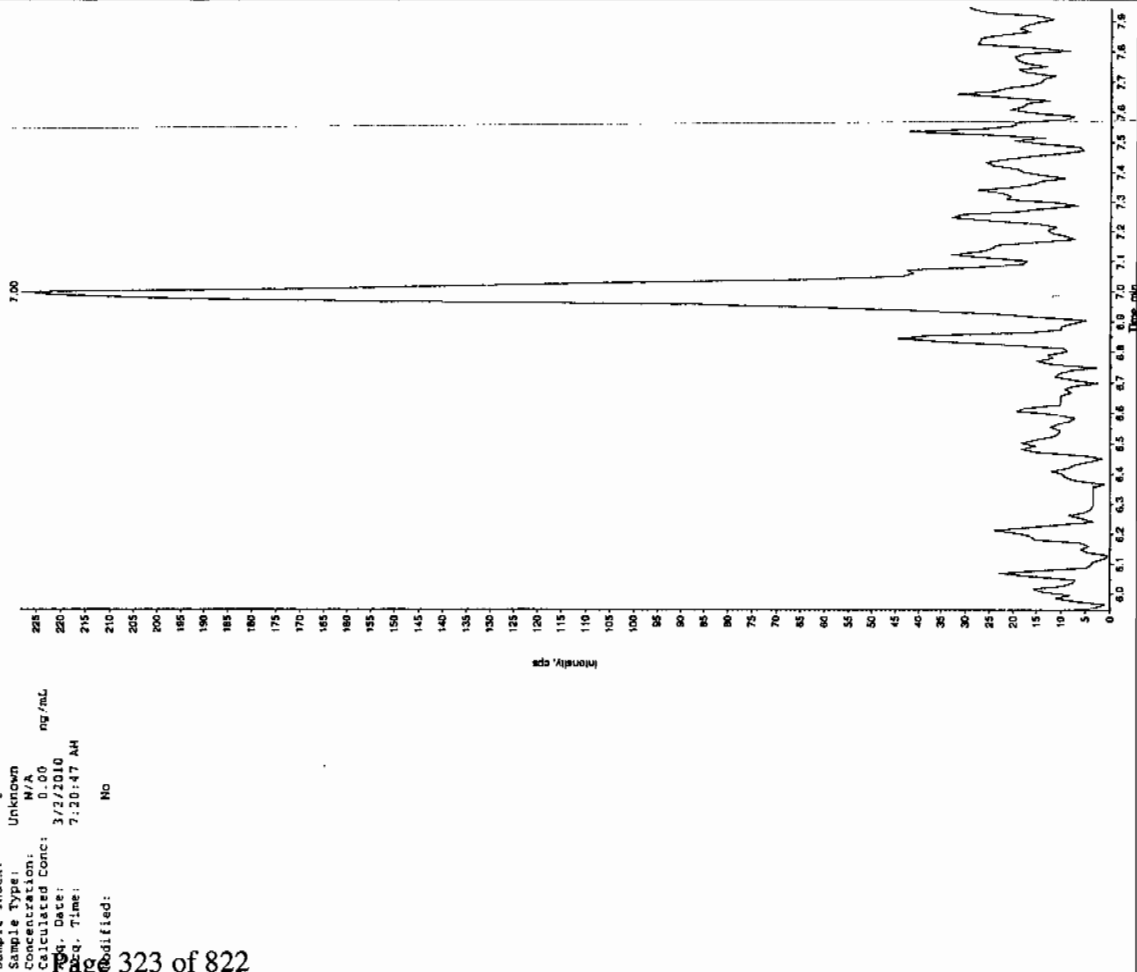


Sample Name: "245318008" Sample ID: "95008121ER" File: "EX903010086.wif"

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

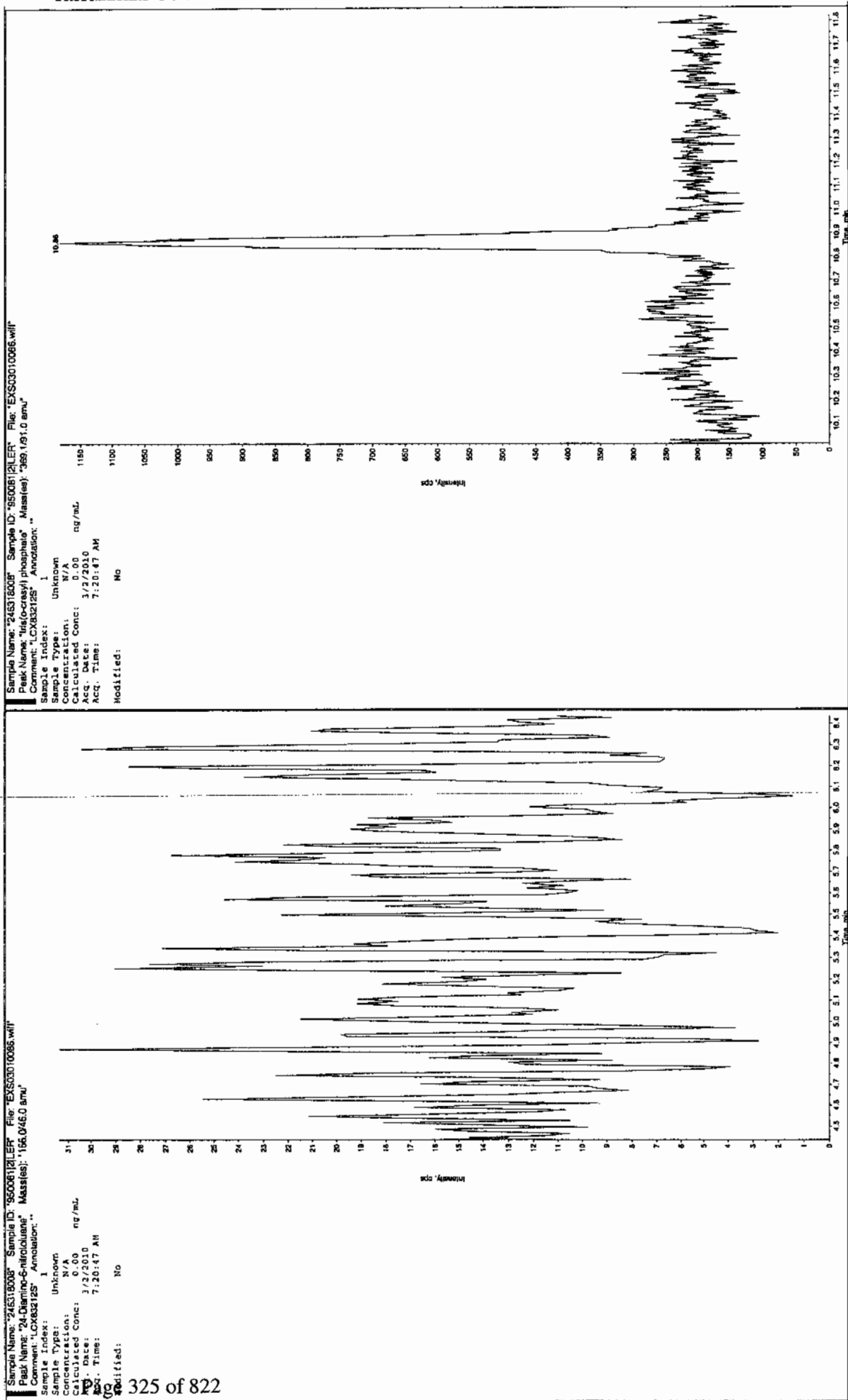
Comment: "LCX632125" Annotation: "

Sample Index: 225  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 7:20:47 AM  
 Modified: No









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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7339

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318009

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312090.wiff

Date Analyzed: 13-MAR-10 23:09

Units: ug/kg

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

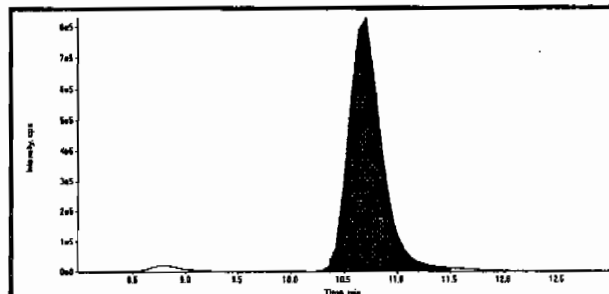
\*Concentration =

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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

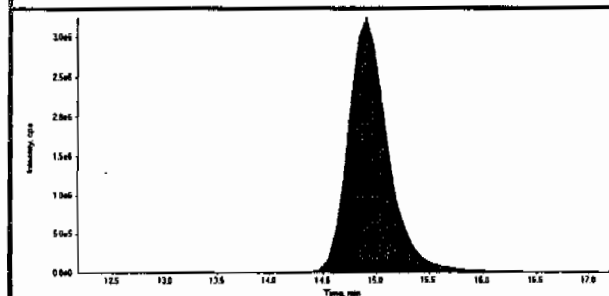
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312090.wiff	Acquisition Date	3/13/2010 11:09:35 PM
Sample Name	246318009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



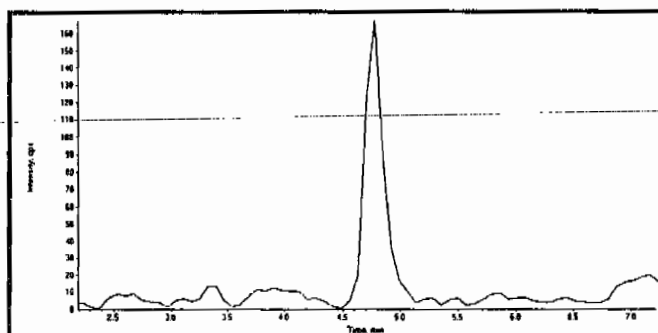
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18300000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

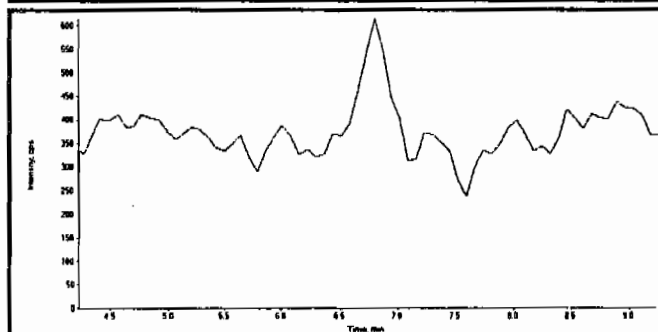


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	85900000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

*Car*  
3/24/10

*Amc*  
03/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312090.wiff	<b>Acquisition Date</b>	3/13/2010 11:09:35 PM
<b>Sample Name</b>	246318009	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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<b>Data File</b>	EXP0312090.wiff	<b>Acquisition Date</b>	3/13/2010 11:09:35 PM
<b>Sample Name</b>	246318009	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

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LCMSMS#3

Data File	EXP0312090.wiff	Acquisition Date	3/13/2010 11:09:35 PM
Sample Name	246318009	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.87e+007
	Manual Modification	No
	Amount:	230. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

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<b>Data File</b>	EXP0312090.wiff	<b>Acquisition Date</b>	3/13/2010 11:09:35 PM
<b>Sample Name</b>	246318009	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	2-Amino-46-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A

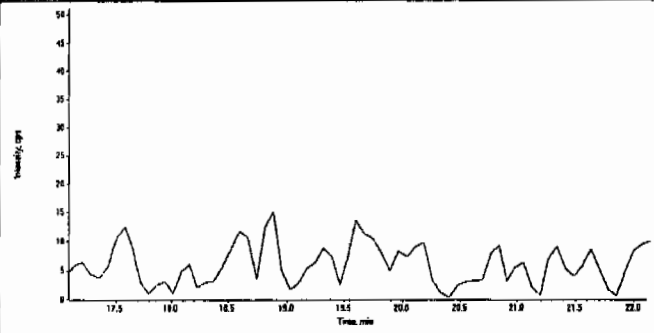
  

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	0.00
	<b>Area Counts:</b>	0.00e+000
	<b>Manual Modification</b>	No
	<b>Amount:</b>	N/A (ng/mL)
	<b>% Accuracy:</b>	N/A



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312090.wiff	<b>Acquisition Date</b>	3/13/2010 11:09:35 PM
<b>Sample Name</b>	246318009	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	0.00
		<b>Area Counts:</b>	0.00e+000
		<b>Manual Modification</b>	No
		<b>Amount:</b>	N/A (ng/mL)
		<b>% Accuracy:</b>	N/A

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7339

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 246318009

Sample Amount 2

Moisture: \*\*\*\*\*

Amount Units g

Date Received: 05-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010090.wiff

Date Analyzed: 02-MAR-10 08:23

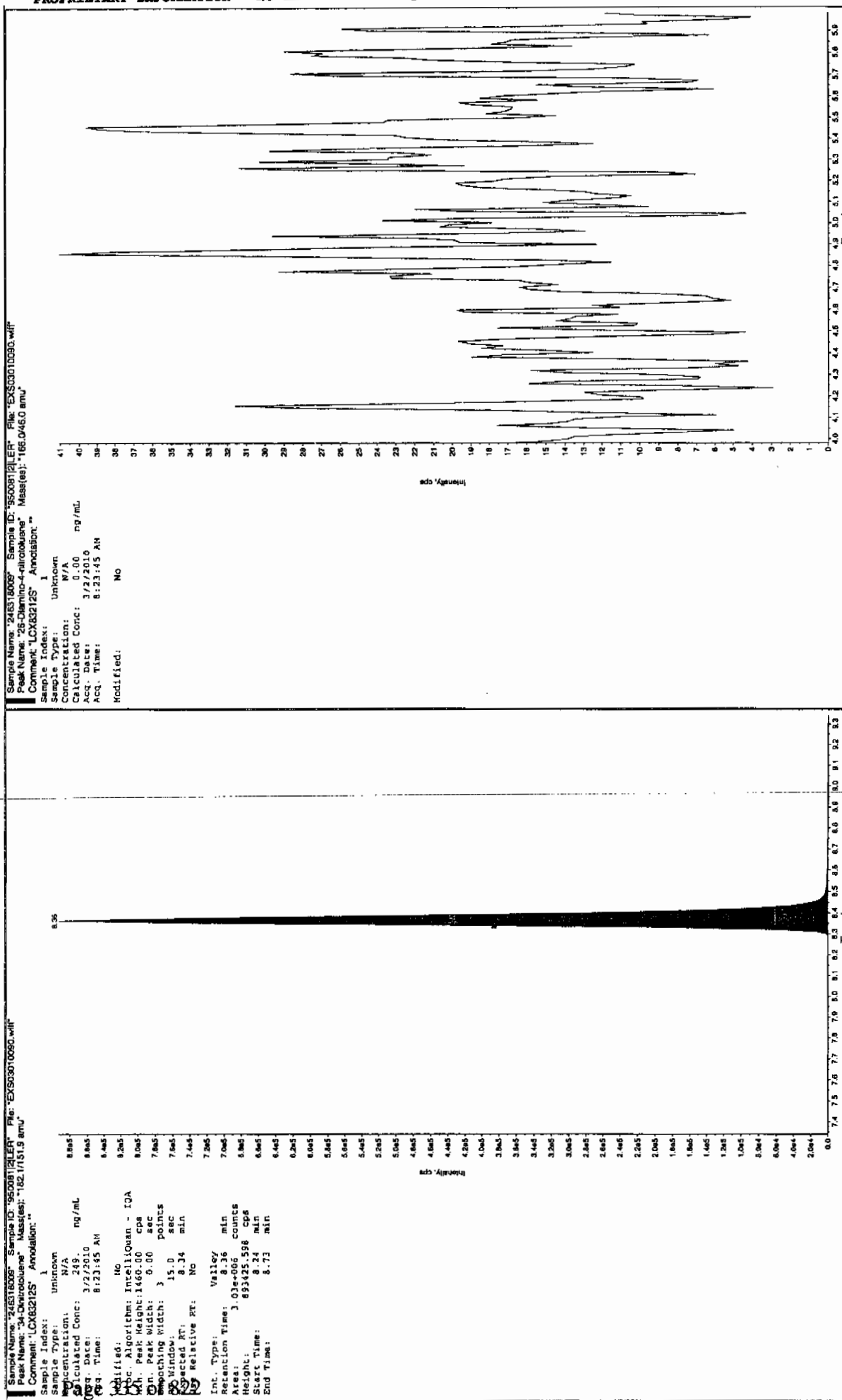
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	16600	
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

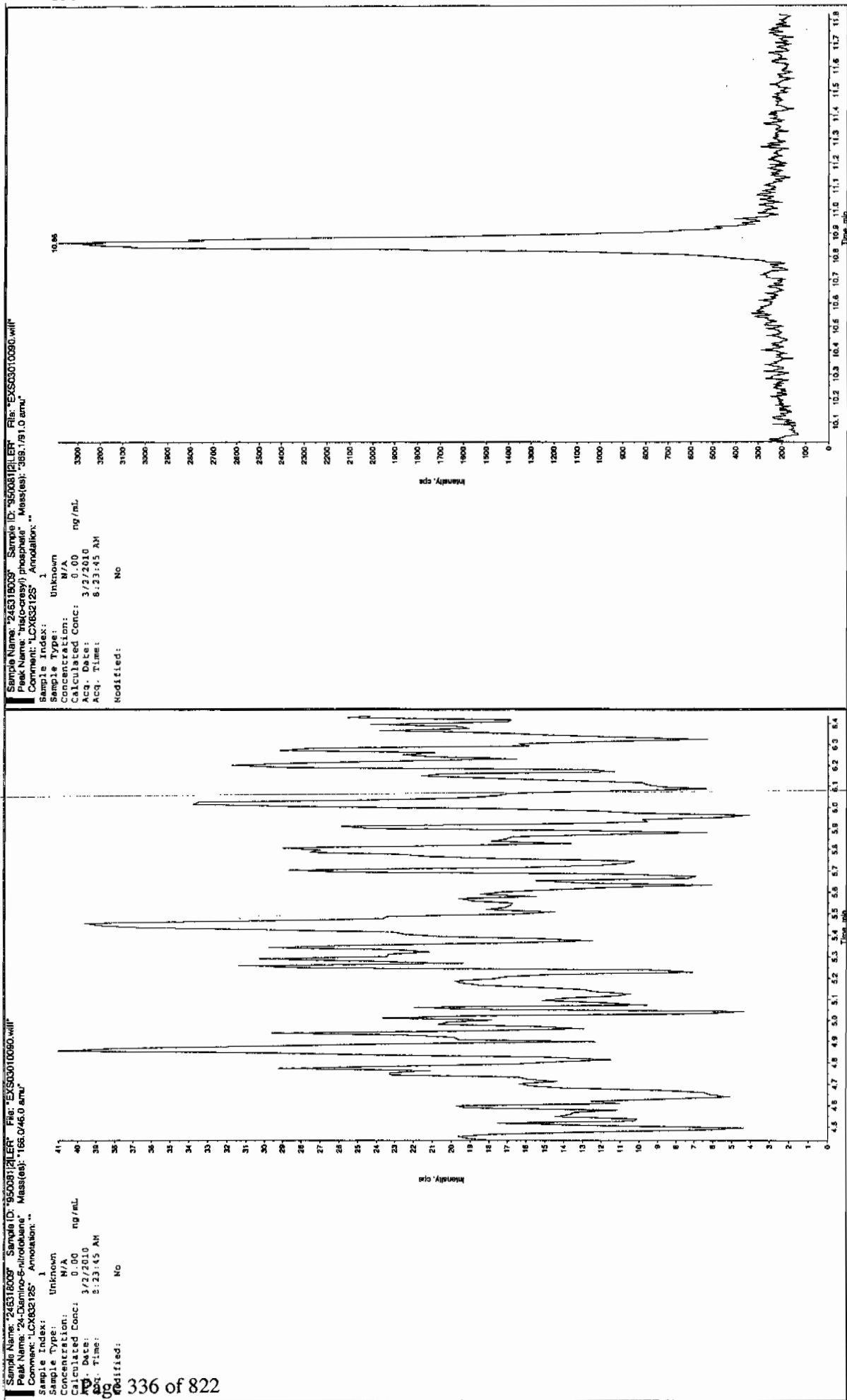
\*Concentration =

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





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



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

# STANDARDS DATA

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

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
<b>3,4-Dinitrotoluene (Surrogate)</b>	12.5	25	100	200	400	500		300
<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
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
<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
Iris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

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

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1564

Lab Code: GEL

Run Date: 01-MAR-10 12-MAR-10

LCMSMS Instrument ID: LCMSMS3

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parameter	50	51	52	53	54	55	Ave RF	RSD	Q
Data File:	EXP0312003.wi	EXP0312004.wi	EXP0312005.wi	EXP0312006.wi	EXP0312007.wi	EXP0312008.wi			
1,3,5-Trinitrobenzene	6.9	6.65	6.64	6.25	5.02	5.13	6.098	13.4	
2,4,6-Trinitrotoluene	2.78	2.93	2.4	2.21	1.96	1.77	2.342	19.3	
2,4-Dinitrotoluene	.617	.711	.625	.588	.531	.459	0.589	14.7	
2-Amino-4,6-dinitrotoluene	.031	.029	.03	.029	.032	.031	0.030	4.34	
3,4-Dinitrotoluene	1.27	1.4	1.35	1.2	1.11	1.06	1.232	10.8	
4-Amino-2,6-dinitrotoluene	1.04	1.07	.909	.925	.857	.797	0.933	11	
DNX	1.53	1.43	1.36	1.44	1.31	1.53	1.433	6.21	
HMX	2.61	2.36	2.17	2.29	2.01	2.24	2.280	8.9	
MX	.825	.793	.708	.785	.766	.865	0.790	6.72	
Nitrobenzene	.139	.147	.148	.168	.147	.161	0.152	7.14	
PETN	.012	.012	.01	.01	.012	.012	0.011	8.28	
RDX	1.68	1.46	1.48	1.64	1.51	1.67	1.573	6.39	
TNX	1.74	1.66	1.46	1.64	1.56	1.61	1.612	5.96	
Tetryl	3.42	3.3	3.2	3.93	3.36	3.52	3.455	7.46	
m-Dinitrobenzene	2.9	2.74	2.81	2.82	2.34	2.42	2.672	8.69	
m-Nitrotoluene	.01	.012	.009	.01	.011	.01	0.010	10.1	
o-Nitrotoluene	.017	.018	.016	.016	.017	.017	0.017	4.8	
p-Nitrotoluene	.01	.01	.008	.009	.009	.009	0.009	7.7	

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

\* Values outside of QC Limit



# Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1564

Lab Code: GEL

Run Date: 01-MAR-10 12-MAR-10

LCMSMS Instrument ID: LCMSMS3

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

Calibration Level:	50	51	52	53	54	55	Slope	Intercept	COD	Q
Data File:	EXP0312003.w	EXP0312004.w	EXP0312005.w	EXP0312006.w	EXP0312007.w	EXP0312008.w				
Parname										
2,6-Dinitrotoluene	5150000	9810000	38700000	70900000	127000000	159000000	.778	.039	.9995	

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

COD is Coefficient of Determination

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

\* Values outside of QC Limit

031210ICAL

Peak Name: 13-Dinitrobenzene-d4  
Use as Internal Standard  
Q1/Q3 Masses: 172.05/46.10 amu  
Peak Name: 26-Dinitrotoluene-d3  
Use as Internal Standard  
Q1/Q3 Masses: 184.99/155.00 amu

Peak Name: HMX

Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 341.20/46.00 amu

Fit	Mean Response Factor	Weighting
Factor	2.28	
Standard deviation	0.203	
%RSD	8.9	
Use Area		

Peak Name: RDX

Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 267.01/46.10 amu

Fit	Mean Response Factor	Weighting
Factor	1.57	
Standard deviation	0.1	
%RSD	6.39	
Use Area		

Peak Name: TNX

Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 219.00/45.00 amu

Fit	Mean Response Factor	Weighting
Factor	1.61	
Standard deviation	0.0959	
%RSD	5.96	
Use Area		

Peak Name: DNX

Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 235.00/45.00 amu

Fit	Mean Response Factor	Weighting
Factor	1.43	
Standard deviation	0.0891	

Page 1

*for 3/24/10*

*03/11/10*

031210ICAL

%RSD 6.21  
Use Area

Peak Name: MNX  
Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 251.00/46.00 amu

Fit Mean Response Factor Weighting  
Factor 0.79  
Standard deviation 0.0531  
%RSD 6.72  
Use Area

None Iterate No

Peak Name: 135-Trinitrobenzene  
Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 212.97/182.80 amu

Fit Mean Response Factor Weighting  
Factor 6.1  
Standard deviation 0.82  
%RSD 13.4  
Use Area

None Iterate No

Peak Name: 13-Dinitrobenzene  
Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 167.95/137.90 amu

Fit Mean Response Factor Weighting  
Factor 2.67  
Standard deviation 0.232  
%RSD 8.69  
Use Area

None Iterate No

Peak Name: Tetra1  
Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 240.95/180.80 amu

Fit Mean Response Factor Weighting  
Factor 3.46  
Standard deviation 0.258  
%RSD 7.46  
Use Area

None Iterate No

Peak Name: 246-Trinitrotoluene

Page 2

031210ICAL

Internal Standard: 26-Dinitrotoluene-d3  
Q1/Q3 Masses: 227.12/209.80 amu

Fit Mean Response Factor Weighting  
Factor 2.34  
Standard deviation 0.453  
%RSD 19.3  
Use Area

None Iterate No

Peak Name: Nitrobenzene  
Internal Standard: 13-Dinitrobenzene-d4  
Q1/Q3 Masses: 123.04/46.00 amu

Fit Mean Response Factor Weighting  
Factor 0.152  
Standard deviation 0.0108  
%RSD 7.14  
Use Area

None Iterate No

Peak Name: 34-dinitrotoluene  
Internal Standard: 26-Dinitrotoluene-d3  
Q1/Q3 Masses: 182.00/46.00 amu

Fit Mean Response Factor Weighting  
Factor 1.23  
Standard deviation 0.133  
%RSD 10.8  
Use Area

None Iterate No

Peak Name: 26-dinitrotoluene  
Internal Standard: 26-Dinitrotoluene-d3  
Q1/Q3 Masses: 182.00/46.00 amu

Fit Linear Weighting None Iterate No  
Intercept 0.039  
Slope 0.778  
Correlation coefficient 0.9995  
Use Area

Peak Name: 24-dinitrotoluene  
Internal Standard: 26-Dinitrotoluene-d3  
Q1/Q3 Masses: 182.00/46.00 amu

Fit Mean Response Factor Weighting

None Iterate No

Page 3

031210ICAL

Factor 0.588			
Standard deviation	0.0864		
%RSD 14.7			
Use Area			
Peak Name: 4-Amino-26-dinitrotoluene			
Internal Standard: 26-Dinitrotoluene-d3			
Q1/Q3 Masses: 197.02/167.00 amu			
Fit	Mean Response Factor	Weighting	
Factor 0.932			
Standard deviation	0.103		
%RSD 11			
Use Area			
Peak Name: 2-Amino-46-dinitrotoluene			
Internal Standard: 26-Dinitrotoluene-d3			
Q1/Q3 Masses: 197.02/180.00 amu			
Fit	Mean Response Factor	Weighting	
Factor 0.0302			
Standard deviation	0.00131		
%RSD 4.34			
Use Area			
Peak Name: 2-Nitrotoluene			
Internal Standard: 26-Dinitrotoluene-d3			
Q1/Q3 Masses: 137.00/46.00 amu			
Fit	Mean Response Factor	Weighting	
Factor 0.017			
Standard deviation	0.000814		
%RSD 4.8			
Use Area			
Peak Name: 4-Nitrotoluene			
Internal Standard: 26-Dinitrotoluene-d3			
Q1/Q3 Masses: 137.00/46.00 amu			
Fit	Mean Response Factor	Weighting	
Factor 0.00932			
Standard deviation	0.000718		
%RSD 7.7			
Use Area			

None Iterate No

None Iterate No

None Iterate No

None Iterate No

031210ICAL

Peak Name: 3-Nitrotoluene  
Internal Standard: 26-Dinitrotoluene-d3  
Q1/Q3 Masses: 137.00/46.00 amu

Fit      Mean Response Factor      Weighting  
Factor      0.0104  
Standard deviation      0.00104  
%RSD      10.1  
Use Area

None      Iterate No

Peak Name: PETN  
Internal Standard: 26-Dinitrotoluene-d3  
Q1/Q3 Masses: 361.06/62.00 amu

Fit      Mean Response Factor      Weighting  
Factor      0.0114  
Standard deviation      0.000941  
%RSD      8.28  
Use Area

None      Iterate No

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

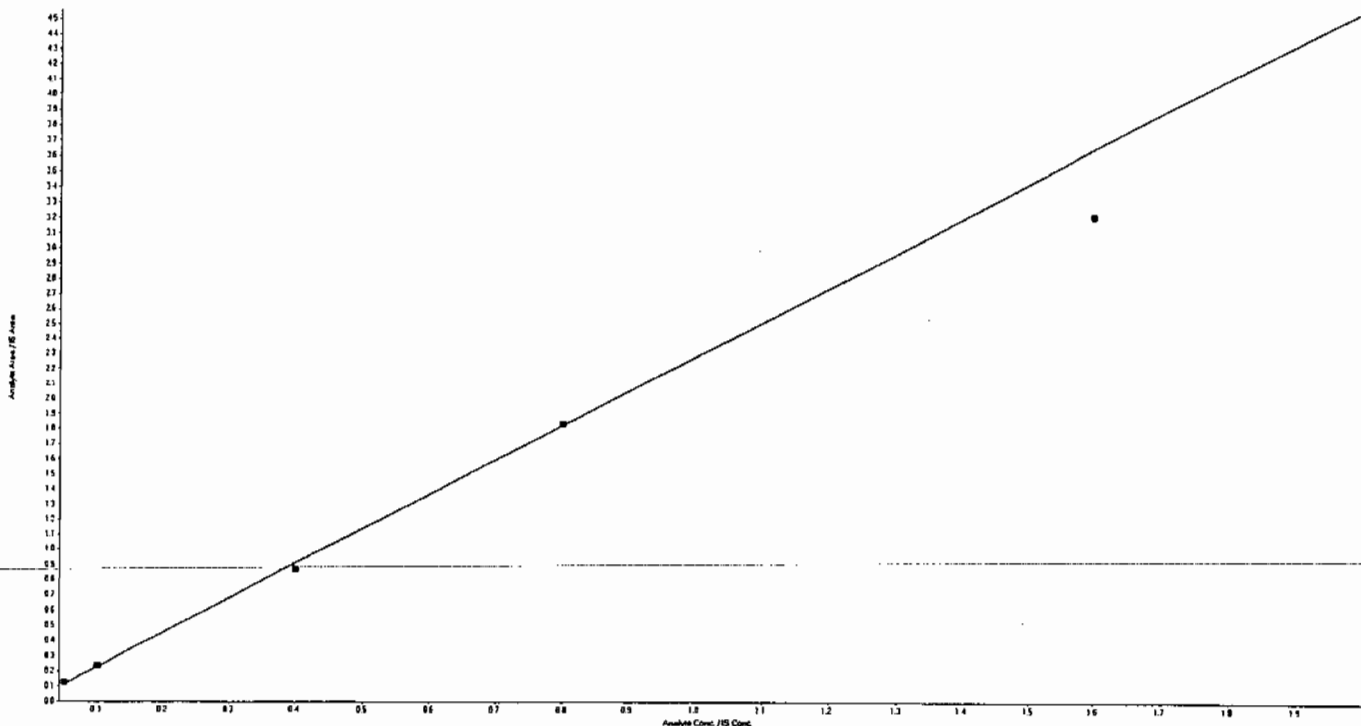
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

031210.rdb

Analyte Name: HMX

Regression Equation:  $y = 2.28x$  (std. dev. = 0.203)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.64	114.5
50	51.82	103.6
200	190.62	95.3
400	401.94	100.5
800	703.74	88.0
1000	980.51	98.1



*Handwritten signatures and dates:*  
 HMC 03/24/10  
 Jax 3/24/10

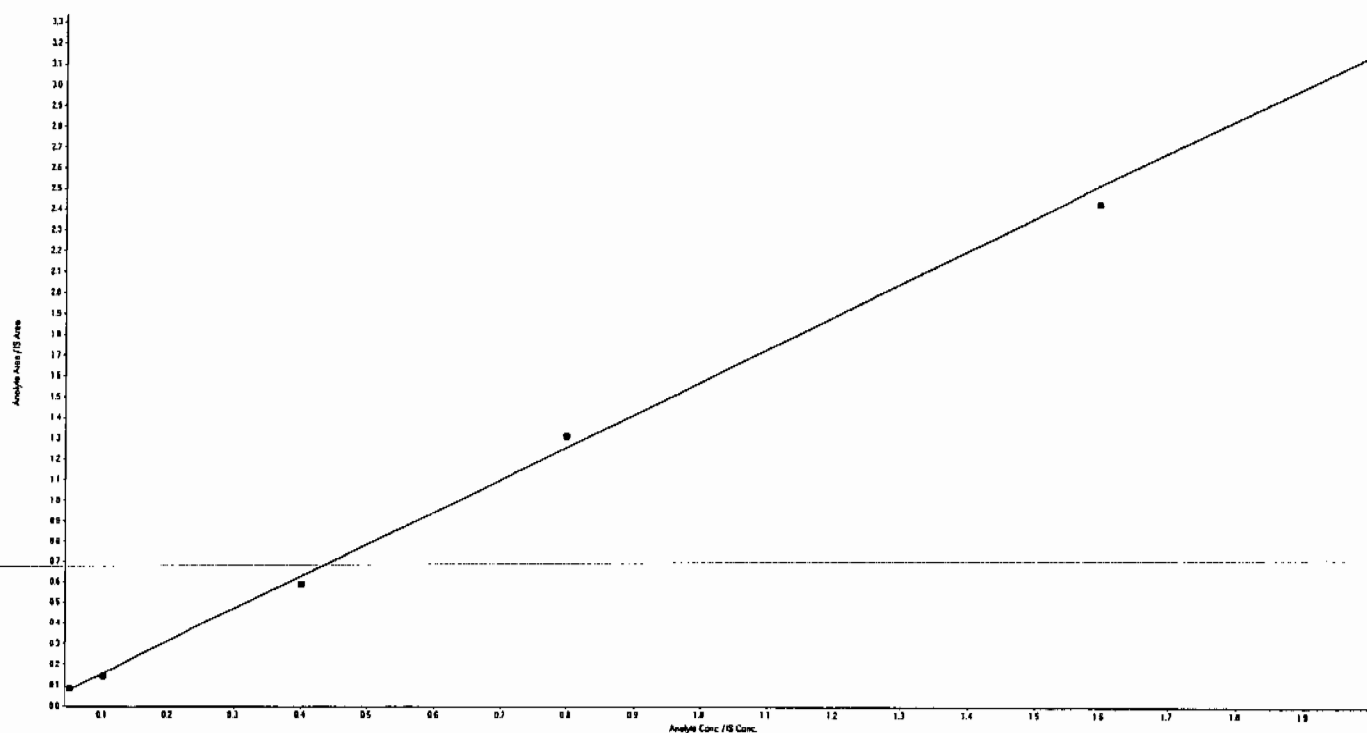
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: RDX

Regression Equation:  $y = 1.57x$  (std. dev. = 0.1)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.70	106.8
50	46.33	92.7
200	187.97	94.0
400	416.86	104.2
800	770.63	96.3
1000	1060.08	106.0





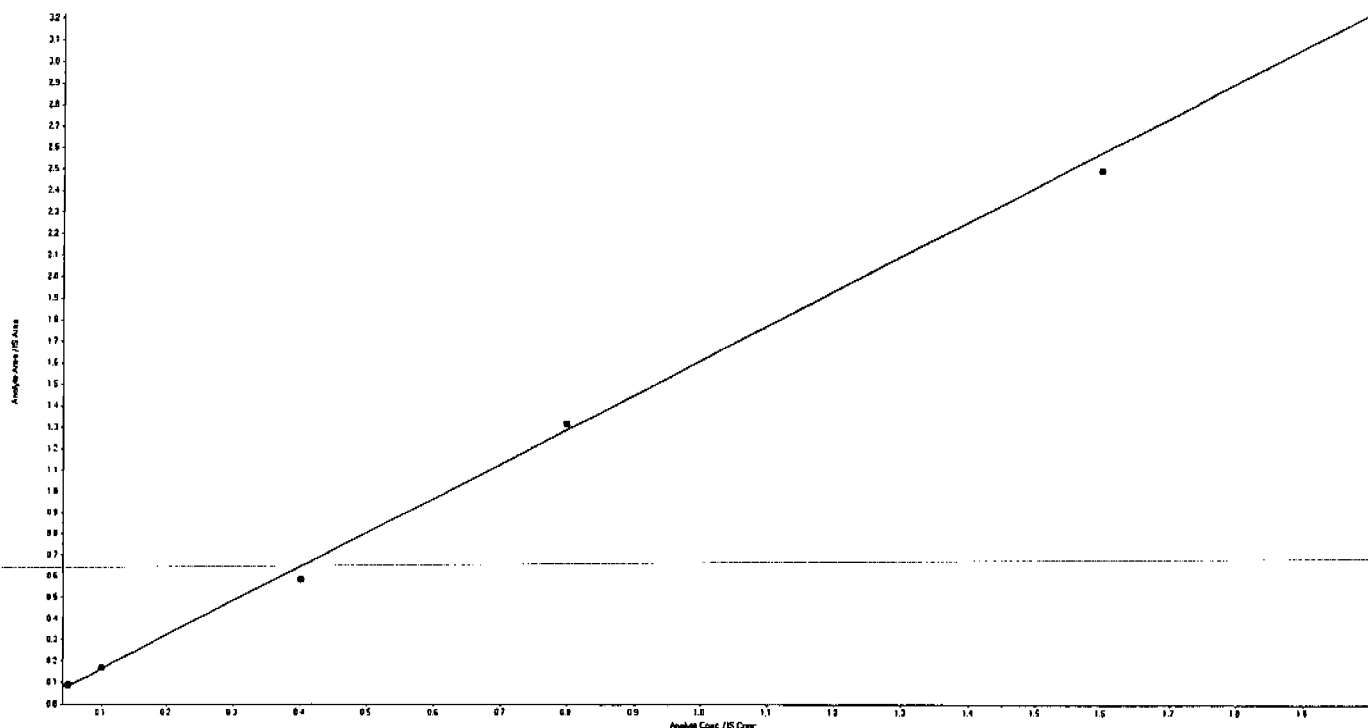
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: TNX

Regression Equation:  $y = 1.61 x$  (std. dev. = 0.0959)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.98	107.9
50	51.45	102.9
200	180.92	90.5
400	408.25	102.1
800	773.23	96.7
1000	1000.05	100.0



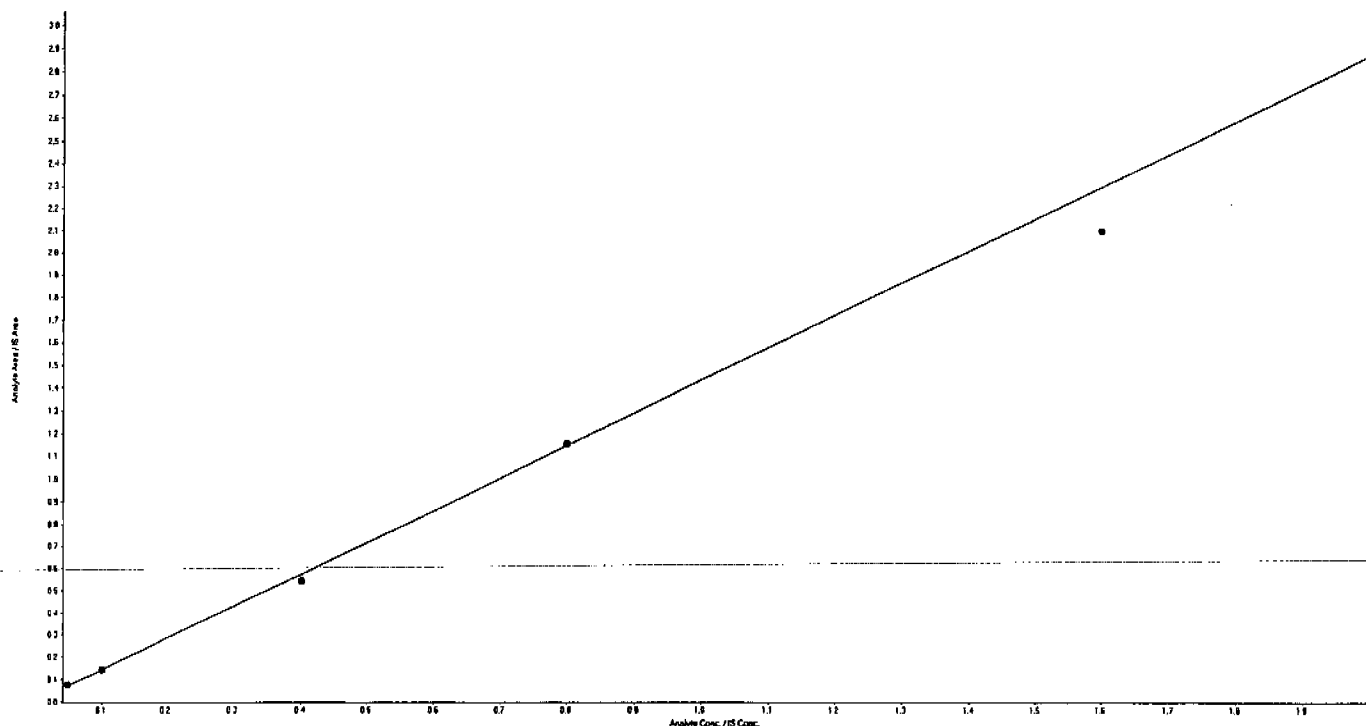
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: DNX

Regression Equation:  $y = 1.43x$  (std. dev. = 0.0891)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.74	106.9
50	49.76	99.5
200	190.00	95.0
400	402.10	100.5
800	730.81	91.4
1000	1066.61	106.7



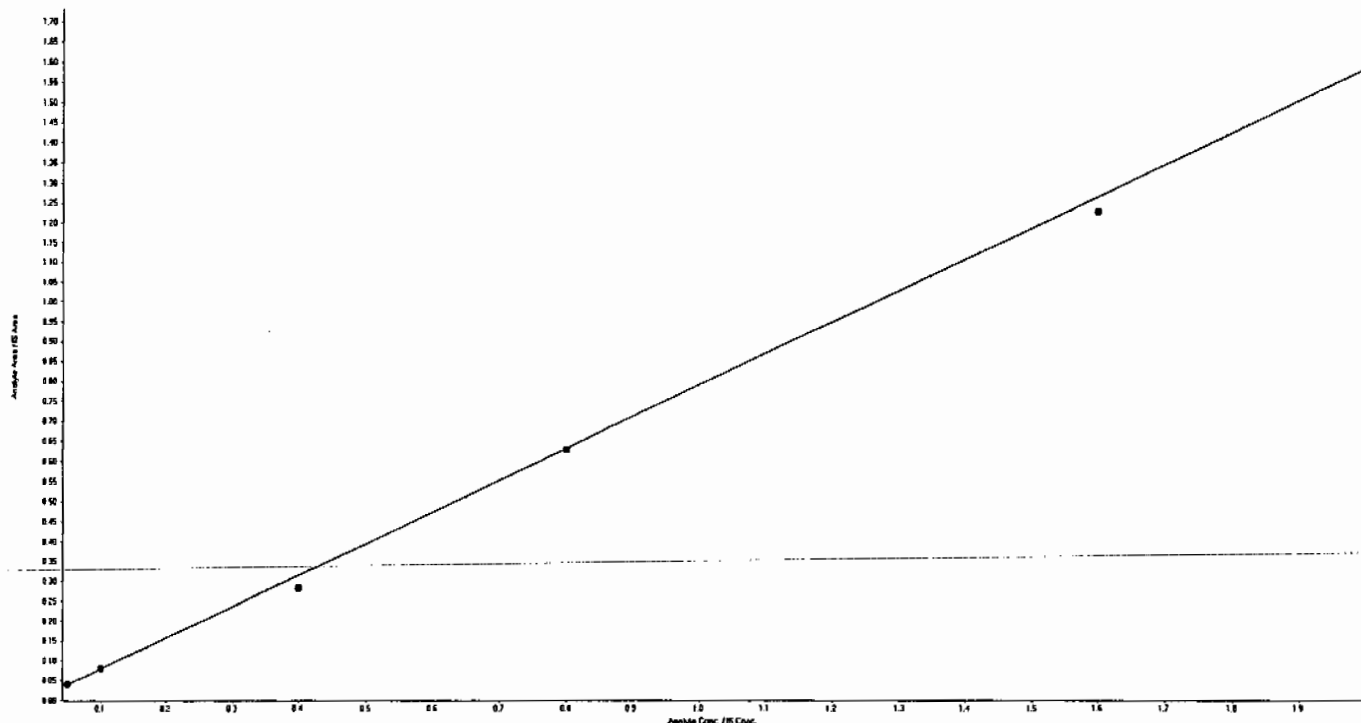
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: MNX

Regression Equation:  $y = 0.79x$  (std. dev. = 0.0531).

Expected Concentration	Calculated Concentration	% Accuracy
25	26.09	104.4
50	50.16	100.3
200	179.22	89.6
400	397.23	99.3
800	775.87	97.0
1000	1094.31	109.4



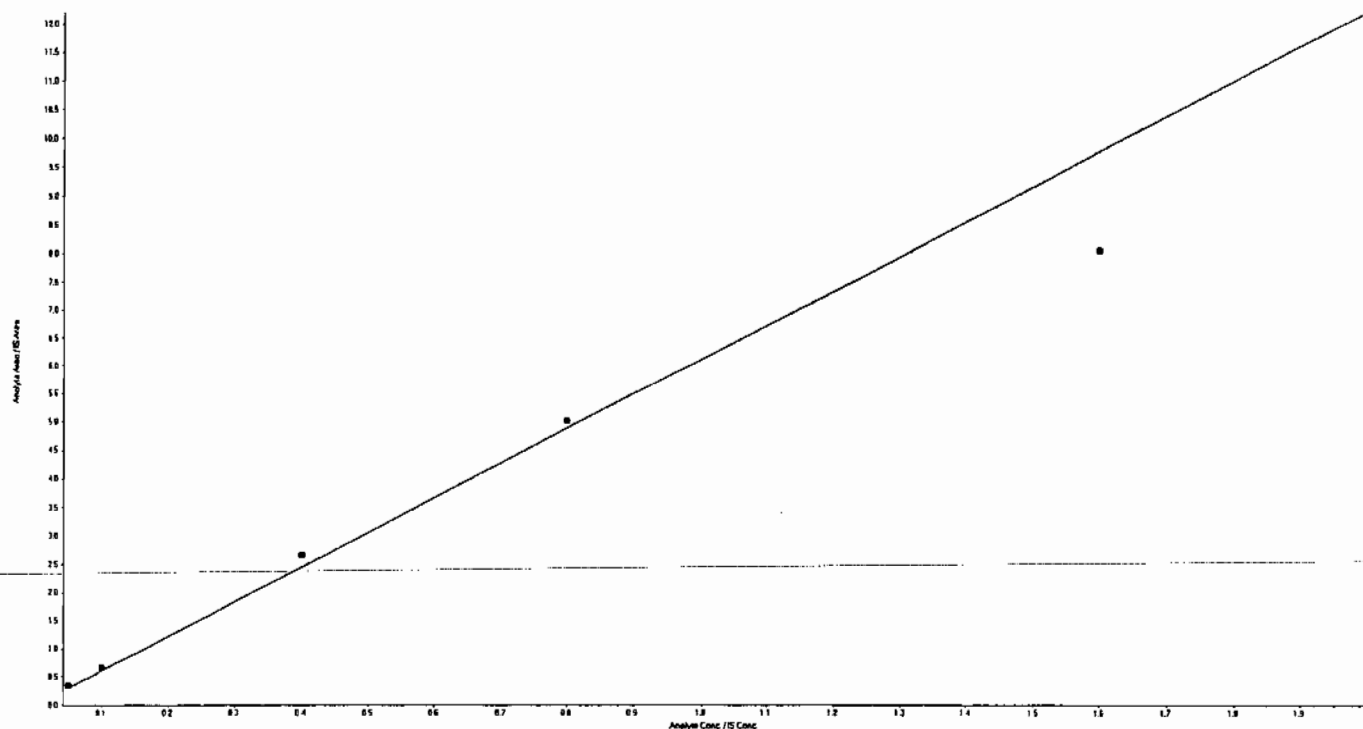
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: 135-Trinitrobenzene

Regression Equation:  $y = 6.1 x$  (std. dev. = 0.82)

Expected Concentration	Calculated Concentration	% Accuracy
25	28.27	113.1
50	54.55	109.1
200	217.70	108.8
400	410.24	102.6
800	658.48	82.3
1000	841.02	84.1



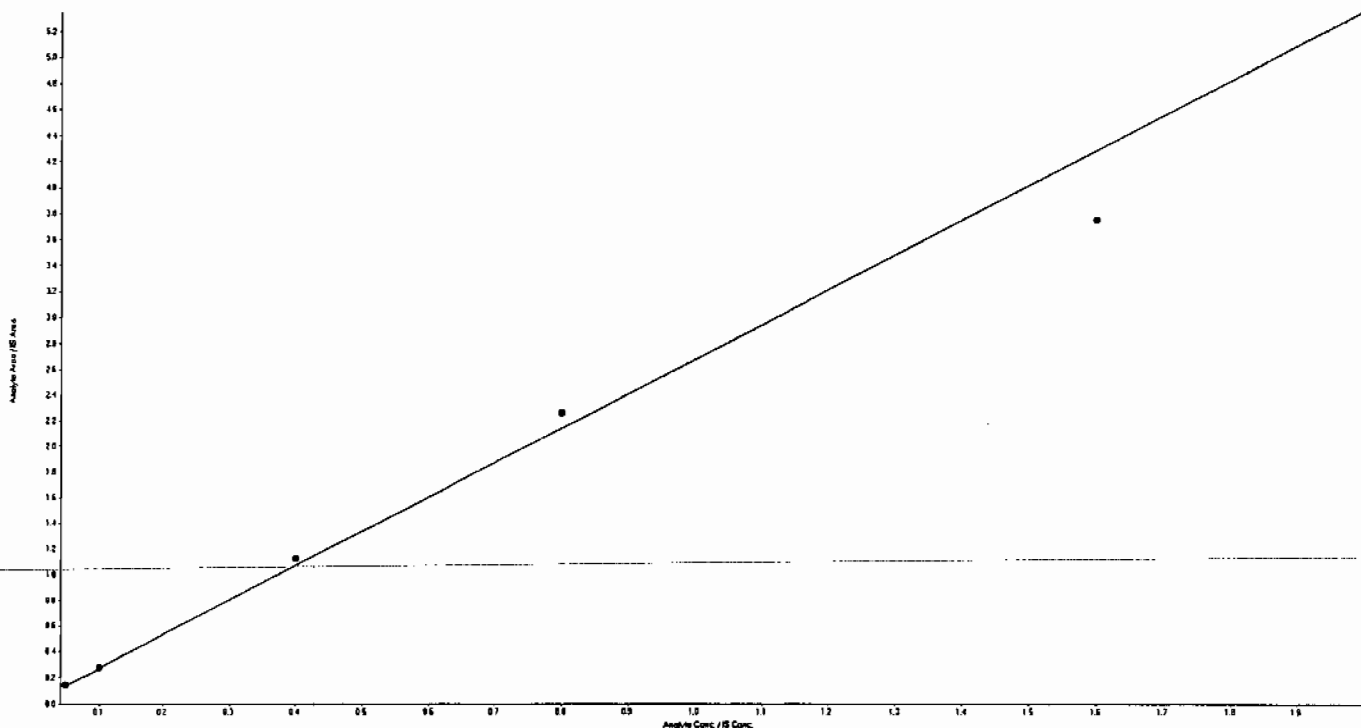
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: 13-Dinitrobenzene

Regression Equation:  $y = 2.67x$  (std. dev. = 0.232)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.14	108.5
50	51.33	102.7
200	209.92	105.0
400	422.29	105.6
800	700.35	87.5
1000	907.10	90.7



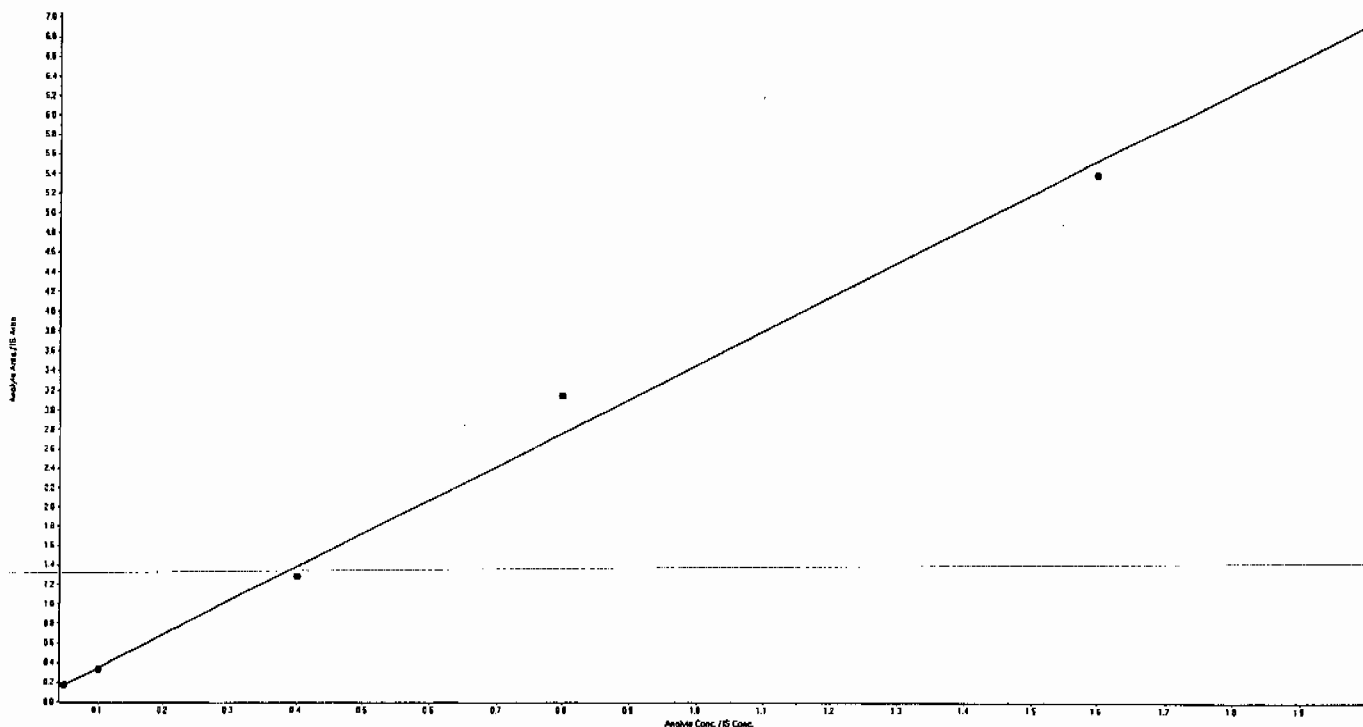
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: Tetryl

Regression Equation:  $y = 3.46 x$  (std. dev. = 0.258)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.75	99.0
50	47.79	95.6
200	185.03	92.5
400	455.23	113.8
800	777.90	97.2
1000	1018.66	101.9



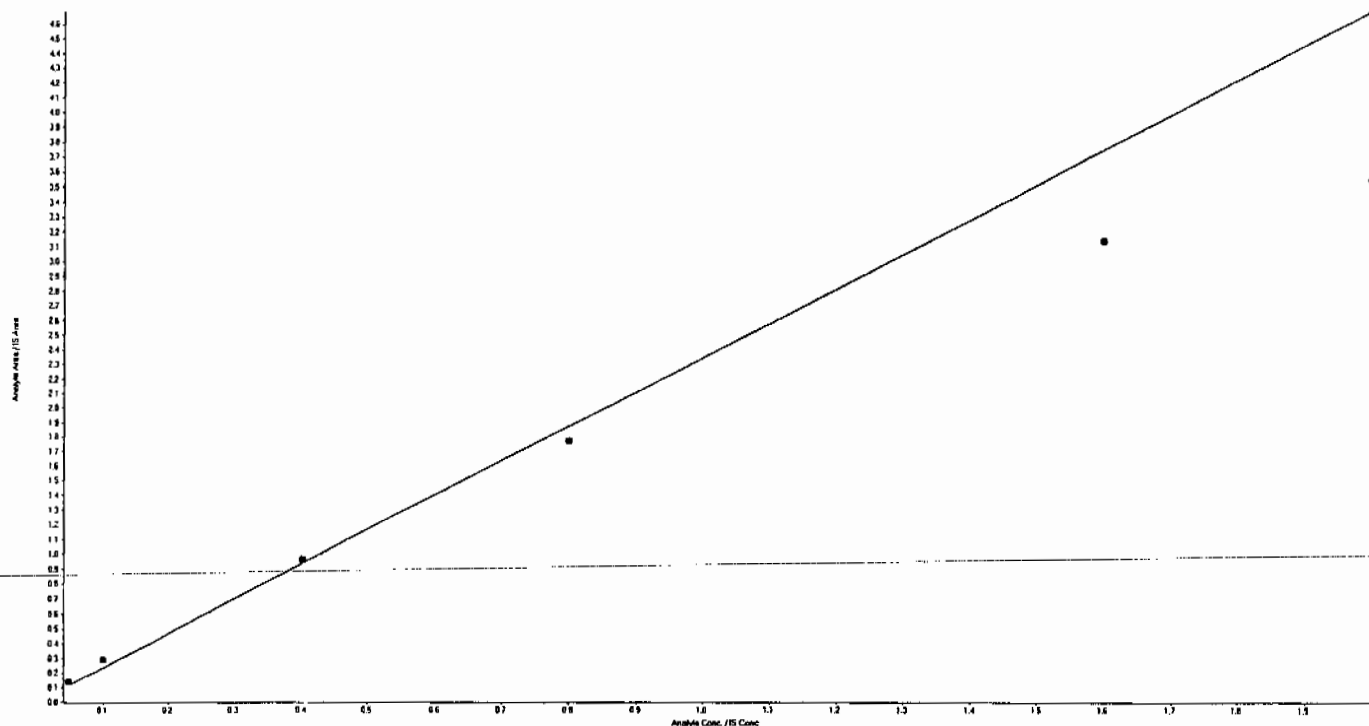
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: 246-Trinitrotoluene

Regression Equation:  $y = 2.34 x$  (std. dev. = 0.453)

Expected Concentration	Calculated Concentration	% Accuracy
25	29.70	118.8
50	62.49	125.0
200	204.69	102.3
400	378.03	94.5
800	669.36	83.7
1000	757.03	75.7



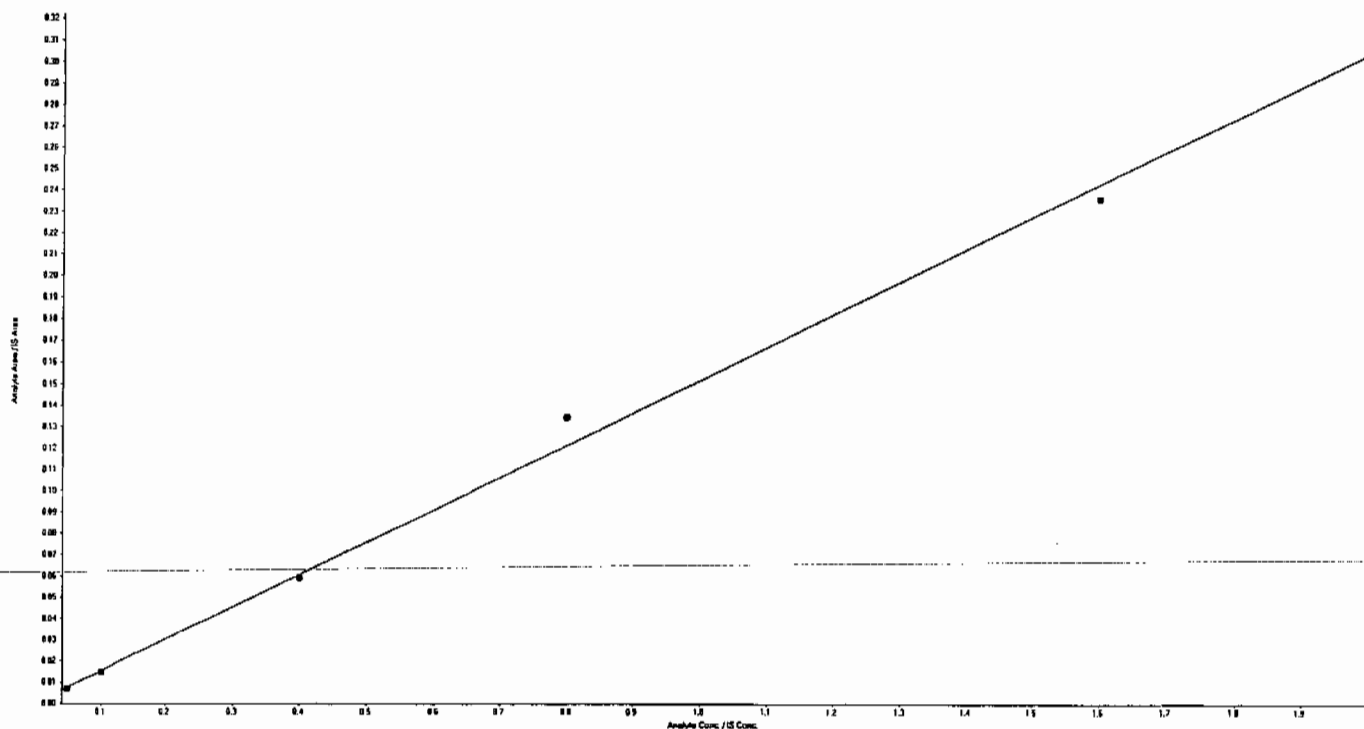
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: Nitrobenzene

Regression Equation:  $y = 0.152 x$  (std. dev. = 0.0108)

Expected Concentration	Calculated Concentration	% Accuracy
25	22.87	91.5
50	48.39	96.8
200	195.02	97.5
400	443.57	110.9
800	776.99	97.1
1000	1062.07	106.2





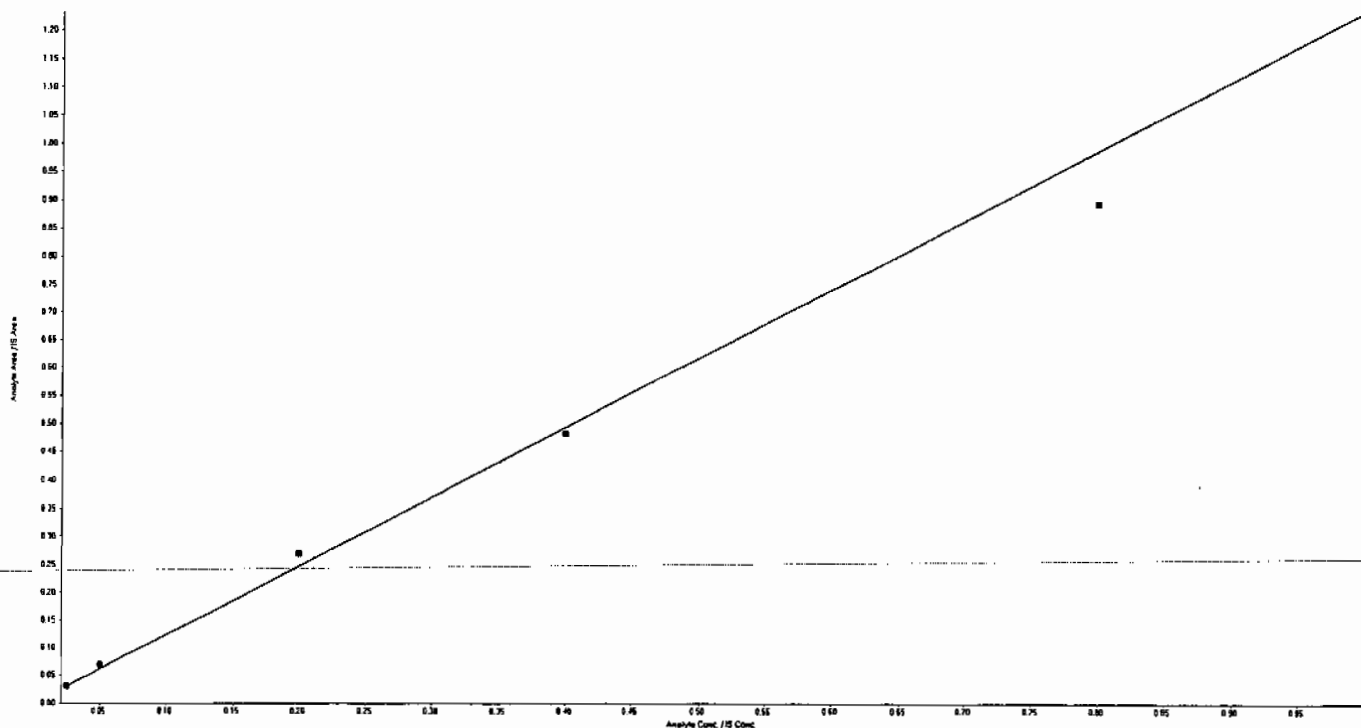
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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: 34-dinitrotoluene

Regression Equation:  $y = 1.23 x$  (std. dev. = 0.133)

Expected Concentration	Calculated Concentration	% Accuracy
12.5	12.91	103.3
25	28.40	113.6
100	109.30	109.3
200	195.22	97.6
400	361.96	90.5
500	428.63	85.7



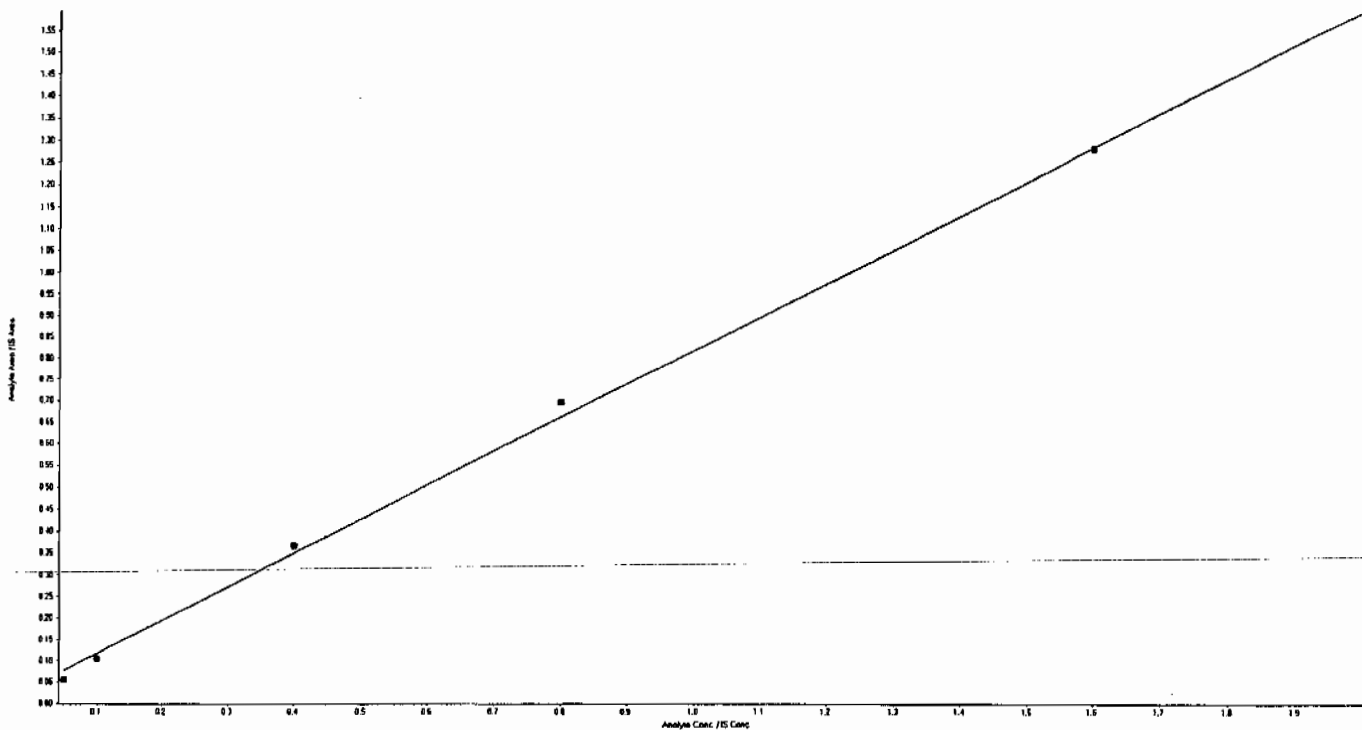
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

Analyte Name: 26-dinitrotoluene

Regression Equation:  $y = 0.778x + 0.039$  ( $r = 0.9995$ )

Expected Concentration	Calculated Concentration	% Accuracy
25	11.06	44.3
50	42.49	85.0
200	210.64	105.3
400	421.07	105.3
800	797.82	99.7
1000	991.91	99.2



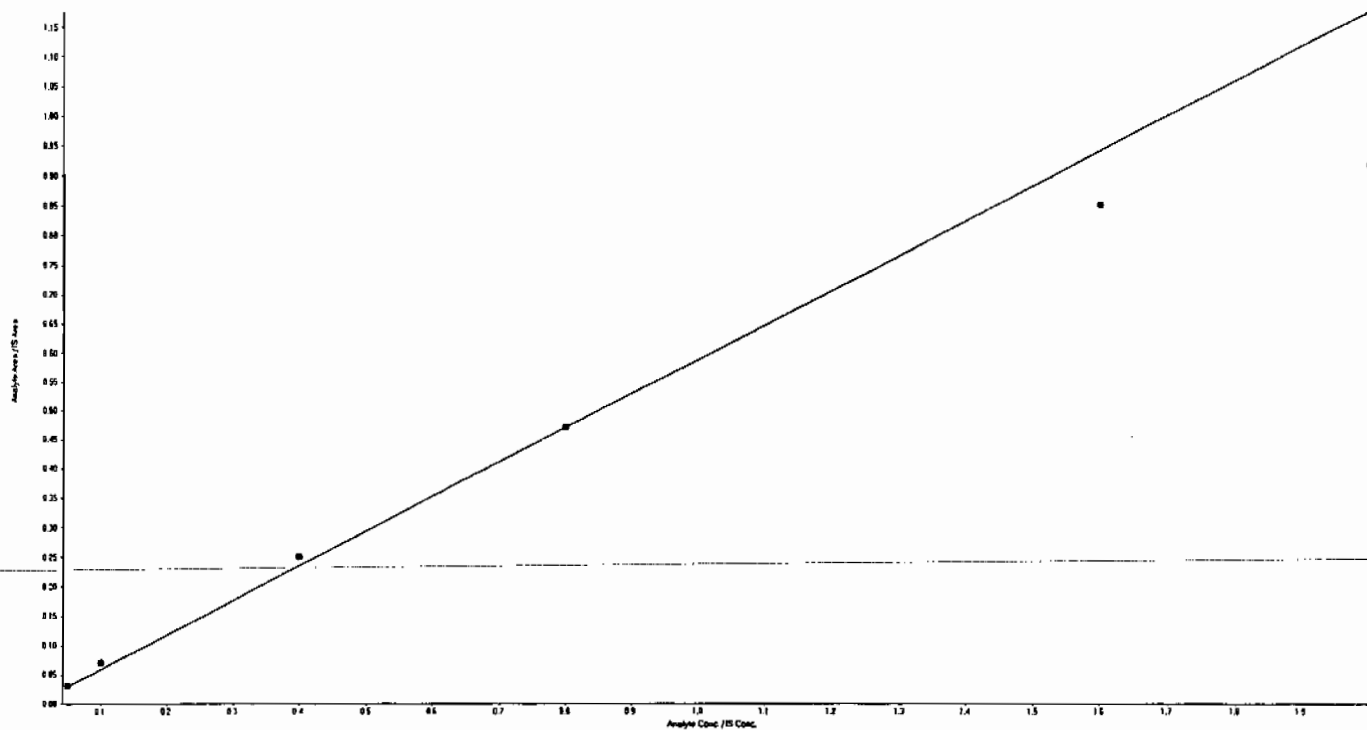
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GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

Analyte Name: 24-dinitrotoluene

Regression Equation:  $y = 0.588x$  (std. dev. = 0.0864)

Expected Concentration	Calculated Concentration	% Accuracy
25	26.20	104.8
50	60.43	120.9
200	212.42	106.2
400	399.67	99.9
800	722.24	90.3
1000	779.31	77.9



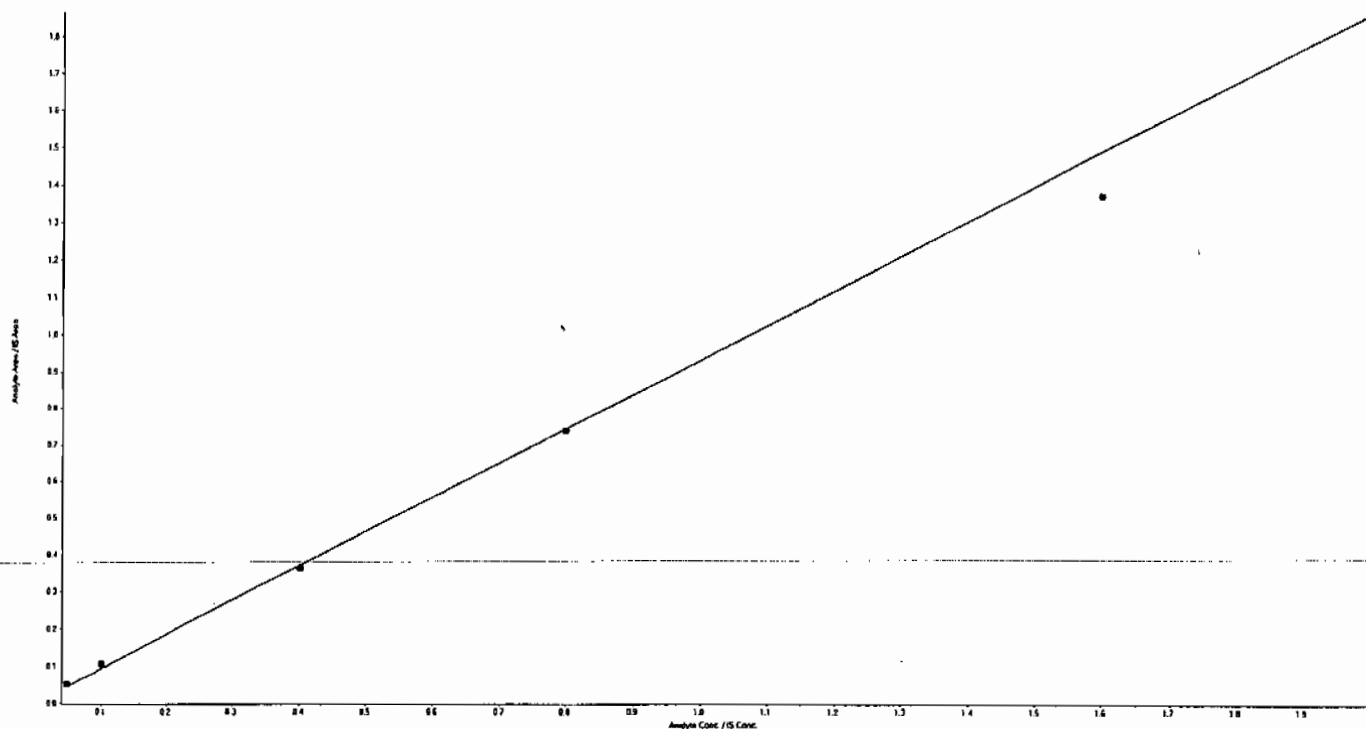
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GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

Analyte Name: 4-Amino-2,6-dinitrotoluene

Regression Equation:  $y = 0.932 x$  (std. dev. = 0.103)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.80	111.2
50	57.16	114.3
200	195.22	97.6
400	397.29	99.3
800	736.08	92.0
1000	855.46	85.5



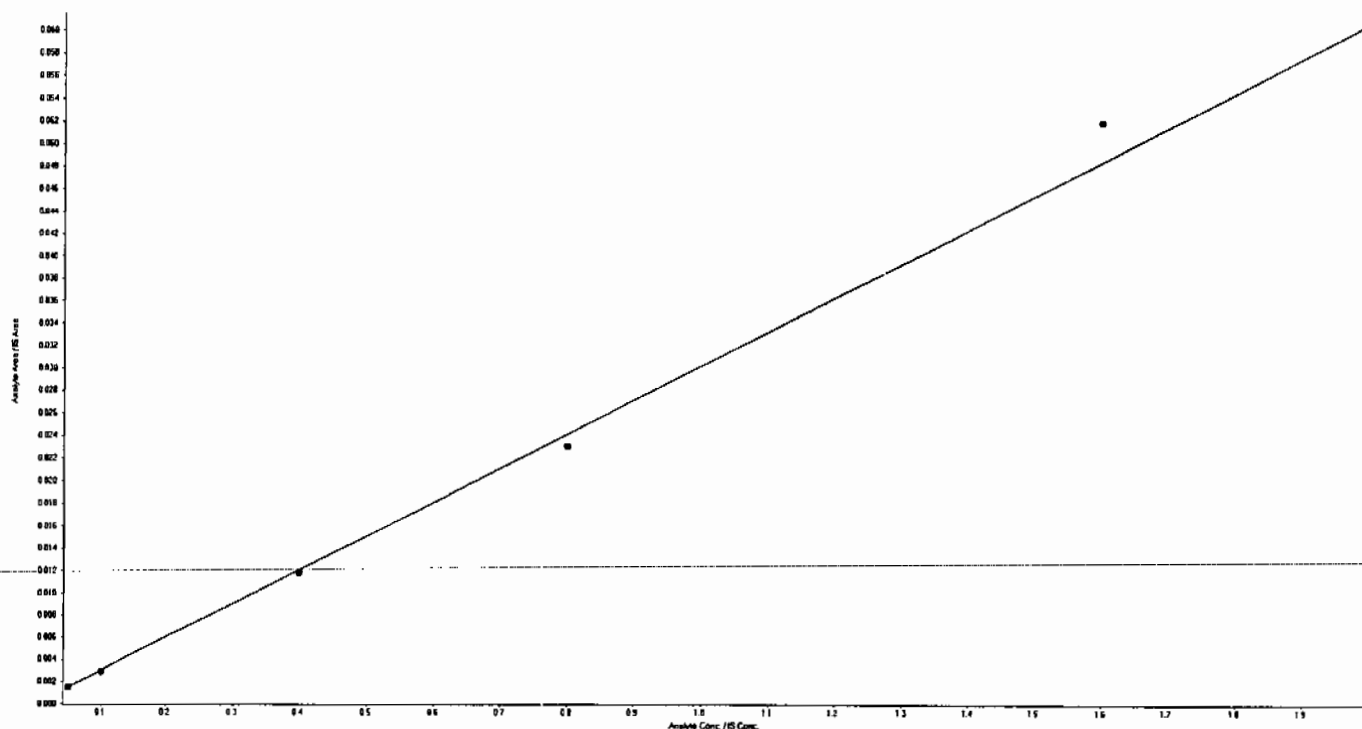
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GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

Analyte Name: 2-Amino-4,6-dinitrotoluene

Regression Equation:  $y = 0.0302 x$  (std. dev. = 0.00131)

Expected Concentration	Calculated Concentration	% Accuracy
25	25.31	101.2
50	48.30	96.6
200	195.85	97.9
400	381.35	95.3
800	857.76	107.2
1000	1016.80	101.7



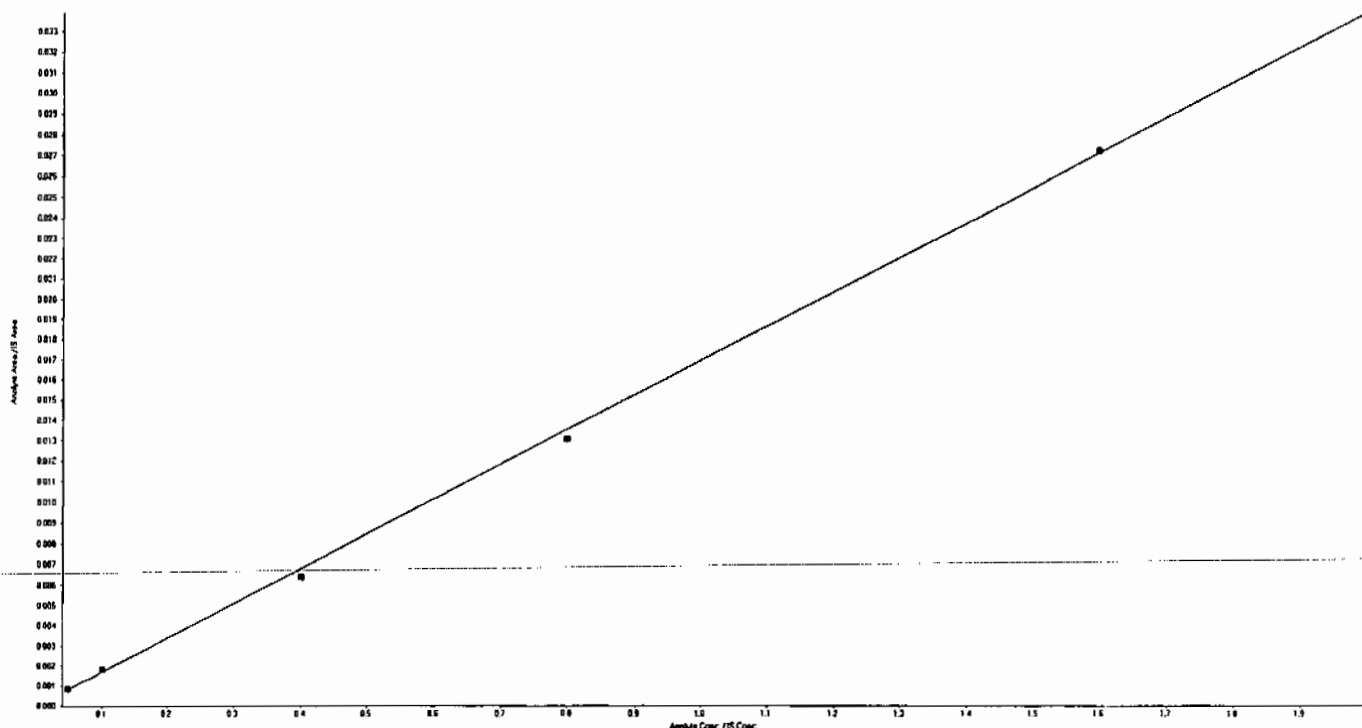
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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: 2-Nitrotoluene

Regression Equation:  $y = 0.017x$  (std. dev. = 0.000814)

Expected Concentration	Calculated Concentration	% Accuracy
25	25.52	102.1
50	54.00	108.0
200	188.51	94.3
400	385.70	96.4
800	802.14	100.3
1000	989.68	99.0



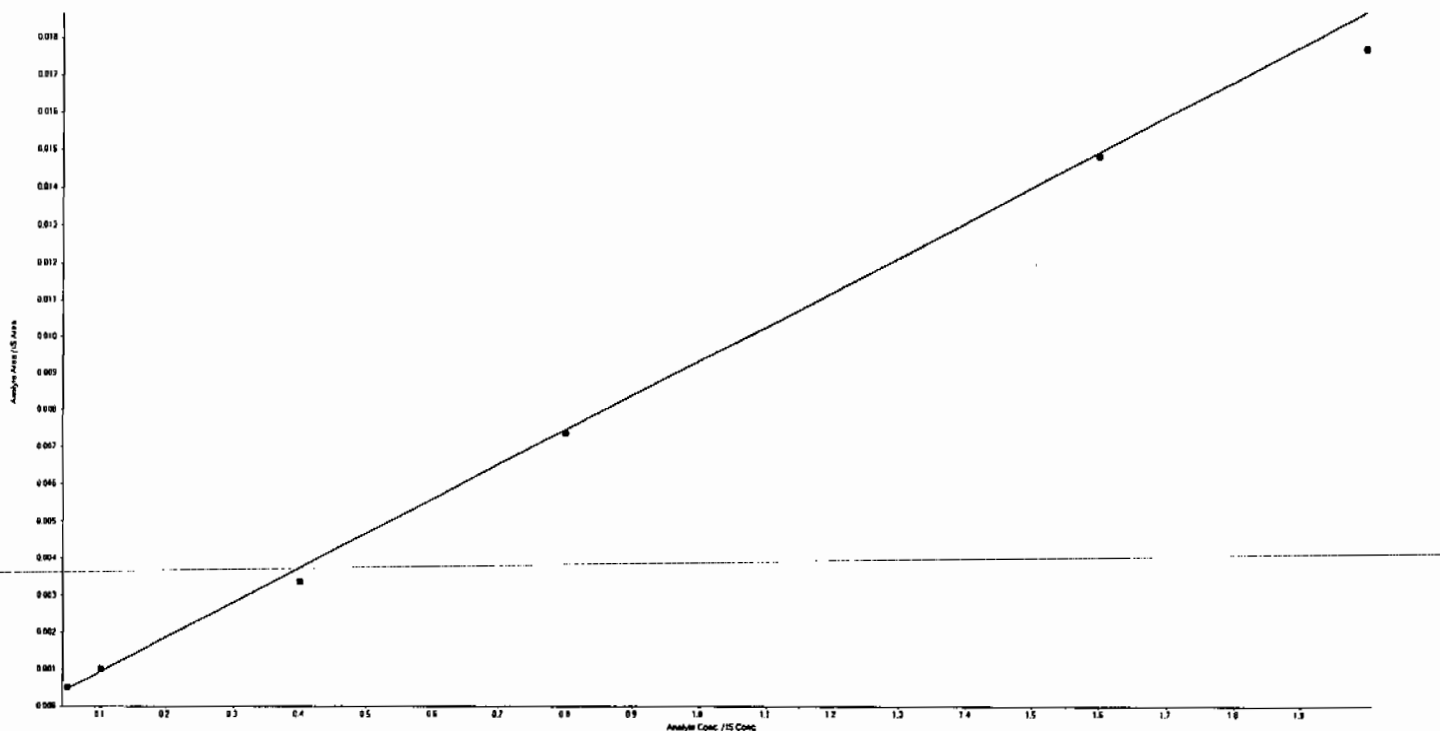
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GEL SOP GL-OA-E-056, Method 8321A-Modified

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LCMSMS#3

Analyte Name: 4-Nitrotoluene

Regression Equation:  $y = 0.00932 x$  (std. dev. = 0.000718)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.41	109.6
50	54.05	108.1
200	179.27	89.6
400	394.54	98.6
800	793.85	99.2
1000	947.43	94.7



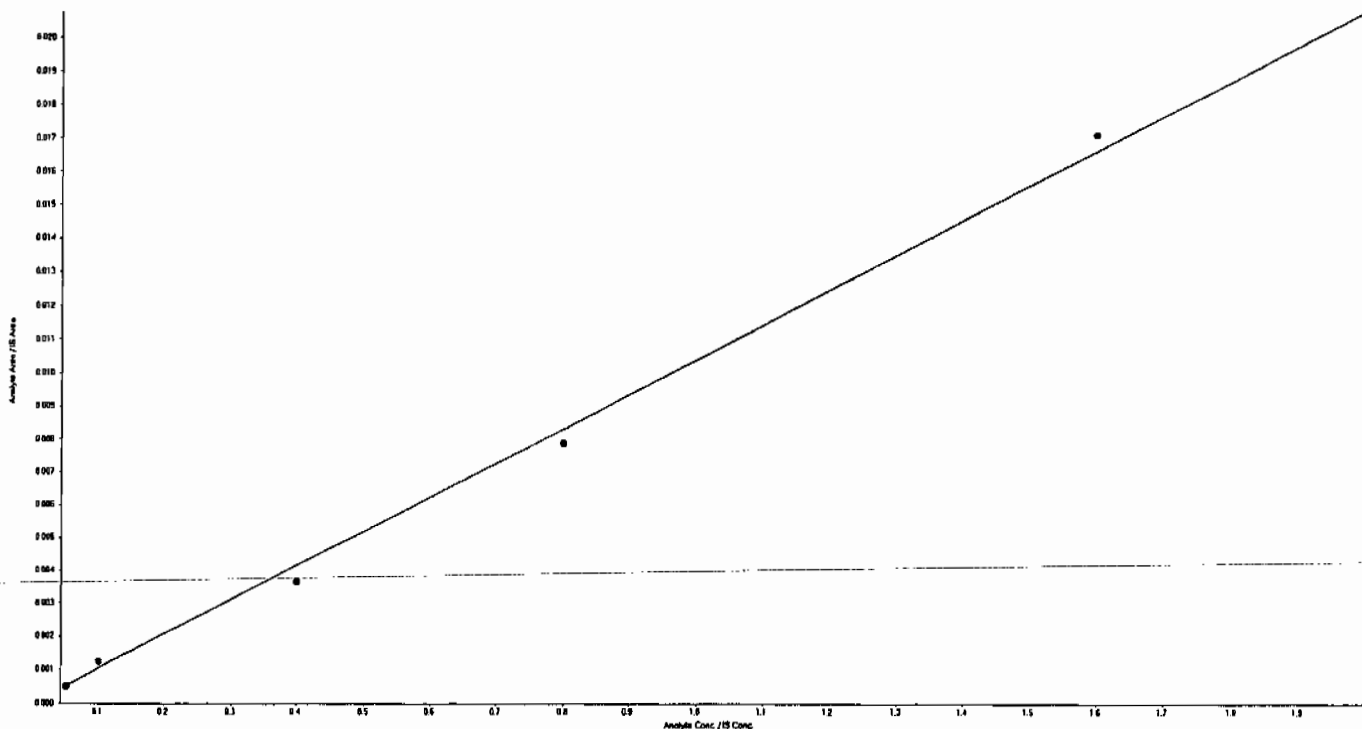
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Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: 3-Nitrotoluene

Regression Equation:  $y = 0.0104 x$  (std. dev. = 0.00104)

Expected Concentration	Calculated Concentration	% Accuracy
25	24.71	98.8
50	58.91	117.8
200	175.68	87.8
400	378.67	94.7
800	822.83	102.9
1000	979.98	98.0





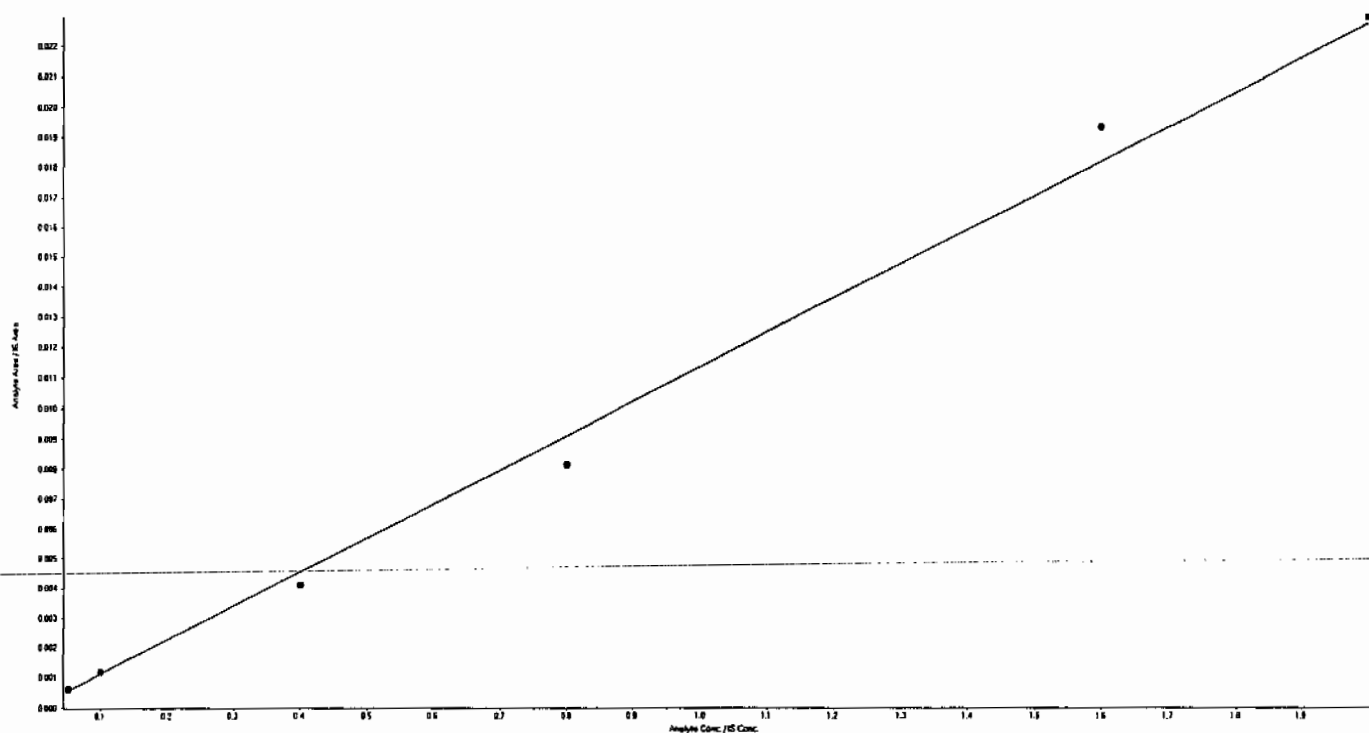
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GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Analyte Name: PETN

Regression Equation:  $y = 0.0114 x$  (std. dev. = 0.000941)

Expected Concentration	Calculated Concentration	% Accuracy
25	27.25	109.0
50	51.97	103.9
200	180.38	90.2
400	358.30	89.6
800	851.00	106.4
1000	1009.08	100.9



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0312010.wiff

Analysis Date: 12-MAR-10 11:56

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	600	624	104	
2-Amino-4,6-dinitrotoluene	600	676	113	
3,4-Dinitrotoluene	300	277	92	
4-Amino-2,6-dinitrotoluene	600	598	100	
DNX	600	611	102	
HMX	600	578	96	
MXN	600	643	107	
Nitrobenzene	600	639	106	
PETN	600	607	101	
RDX	600	626	104	
TNX	600	648	108	
Tetryl	600	697	116	
m-Dinitrobenzene	600	593	99	
m-Nitrotoluene	600	578	96	
o-Nitrotoluene	600	604	101	
p-Nitrotoluene	600	587	98	
1,3,5-Trinitrobenzene	600	580	97	
2,4,6-Trinitrotoluene	600	550	92	
2,4-Dinitrotoluene	600	571	95	

Recovery Limits:

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

Other Target Analytes 80-120%

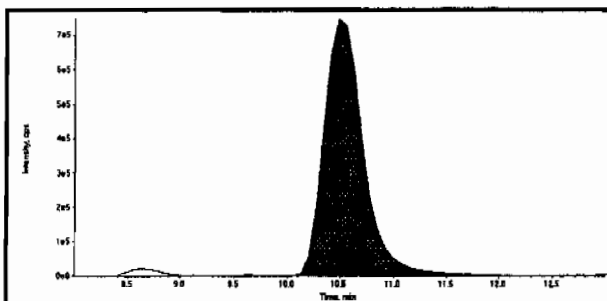
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

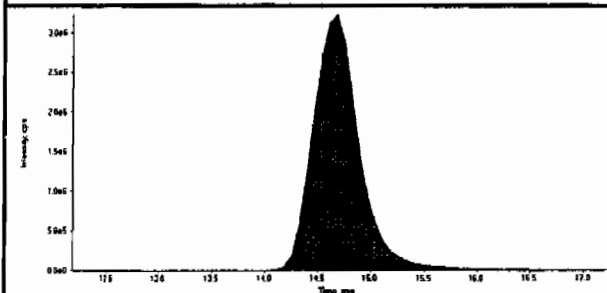
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

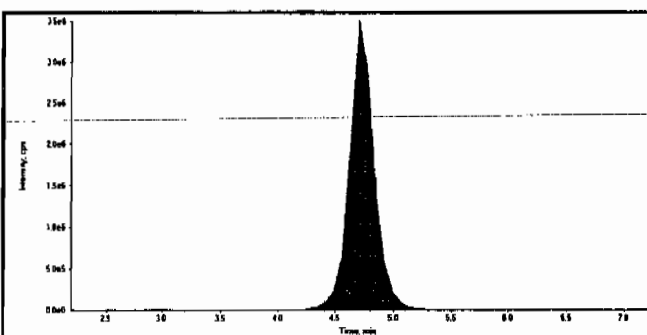
Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



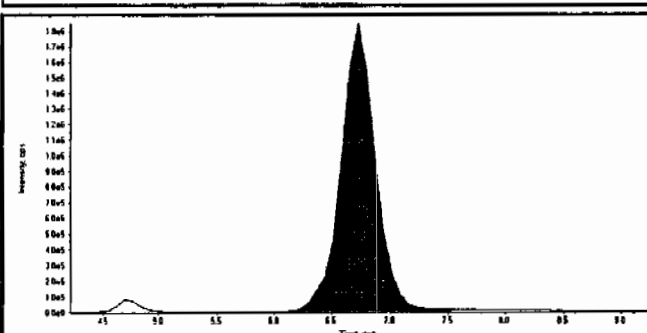
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.50
Area Counts:	19600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	98400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.70
Area Counts:	5.16e+007
Manual Modification	No
Amount:	578. (ng/mL)
% Accuracy:	96.40



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	3.85e+007
Manual Modification	No
Amount:	626. (ng/mL)
% Accuracy:	104.00

*Handwritten signatures and dates:*  
 JHW 03/14/10  
 JAW 3/14/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312010.wiff	<b>Acquisition Date</b>	3/12/2010 11:56:18 AM
<b>Sample Name</b>	WXX100312-56ICV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	<b>Expected RT:</b>	5.06
	<b>Actual RT:</b>	5.06
	<b>Area Counts:</b>	4.08e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	648. (ng/mL)
	<b>% Accuracy:</b>	108.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	<b>Expected RT:</b>	5.35
	<b>Actual RT:</b>	5.35
	<b>Area Counts:</b>	3.43e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	611. (ng/mL)
	<b>% Accuracy:</b>	102.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	<b>Expected RT:</b>	6.00
	<b>Actual RT:</b>	6.00
	<b>Area Counts:</b>	1.99e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	643. (ng/mL)
	<b>% Accuracy:</b>	107.00

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	<b>Expected RT:</b>	8.97
	<b>Actual RT:</b>	8.97
	<b>Area Counts:</b>	1.38e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	580. (ng/mL)
	<b>% Accuracy:</b>	96.60

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312010.wiff	<b>Acquisition Date</b>	3/12/2010 11:56:18 AM
<b>Sample Name</b>	WXX100312-56ICV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.6
	Area Counts:	6.20e+007
	Manual Modification	No
	Amount:	593. (ng/mL)
	% Accuracy:	98.80

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	9.43e+007
	Manual Modification	No
	Amount:	697. (ng/mL)
	% Accuracy:	116.00

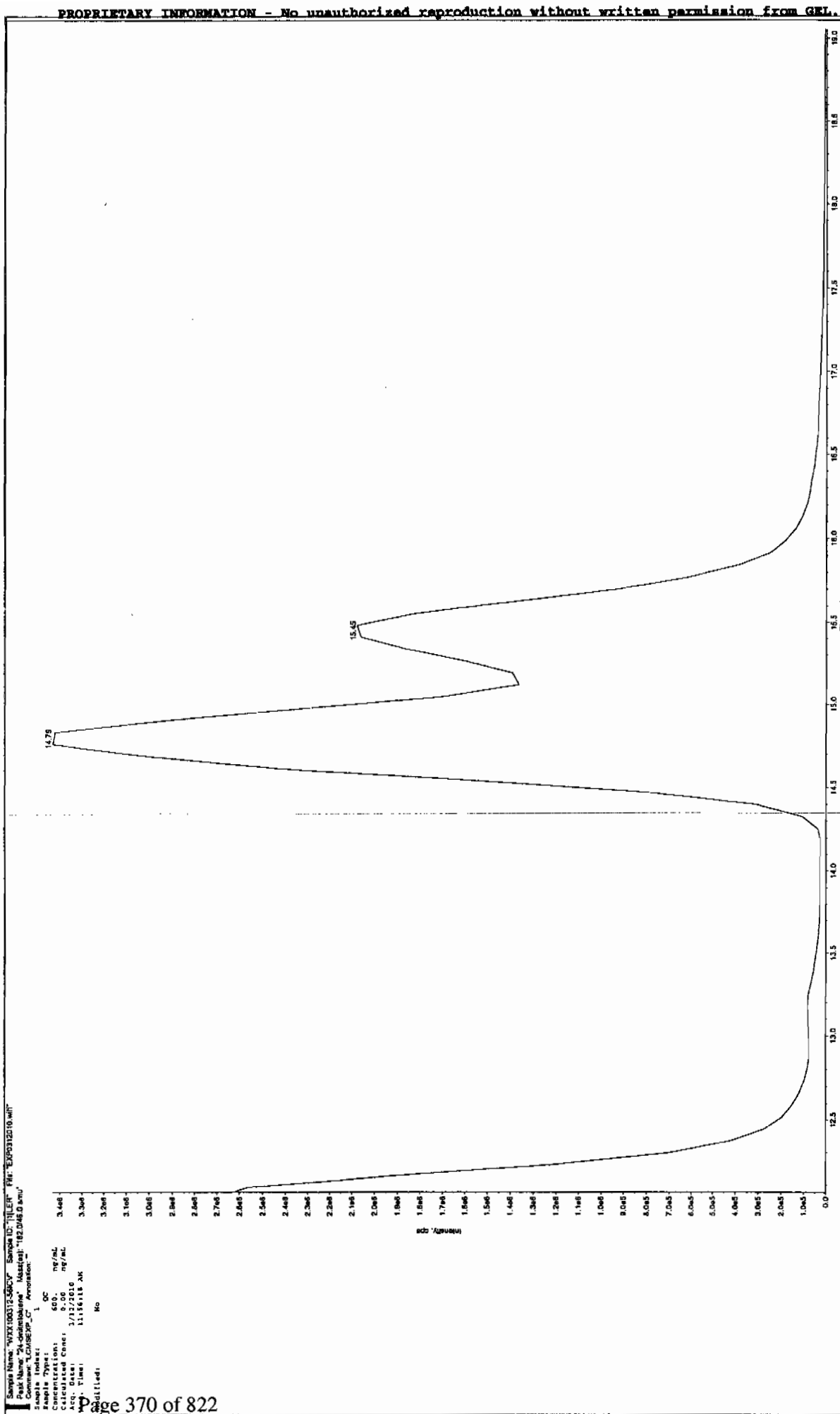
  

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.1
	Area Counts:	2.54e+008
	Manual Modification	No
	Amount:	550. (ng/mL)
	% Accuracy:	91.60

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.8
	Area Counts:	3.79e+006
	Manual Modification	No
	Amount:	639. (ng/mL)
	% Accuracy:	106.00

Before Jan 3/24/10



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312010.wiff	<b>Acquisition Date</b>	3/12/2010 11:56:18 AM
<b>Sample Name</b>	WXX100312-56ICV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.0
	<b>Area Counts:</b>	6.73e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	277. (ng/mL)
	<b>% Accuracy:</b>	92.40

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	14.8
	<b>Area Counts:</b>	9.94e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	624. (ng/mL)
	<b>% Accuracy:</b>	104.00

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.4
	<b>Area Counts:</b>	6.61e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	571. (ng/mL)
	<b>% Accuracy:</b>	95.10

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.1
	<b>Area Counts:</b>	1.10e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	598. (ng/mL)
	<b>% Accuracy:</b>	99.60



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312010.wiff	<b>Acquisition Date</b>	3/12/2010 11:56:18 AM
<b>Sample Name</b>	WXX100312-56ICV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.0
	Area Counts:	4.02e+006
	Manual Modification	No
	Amount:	676. (ng/mL)
	% Accuracy:	113.00

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.6
	Area Counts:	2.02e+006
	Manual Modification	No
	Amount:	604. (ng/mL)
	% Accuracy:	101.00

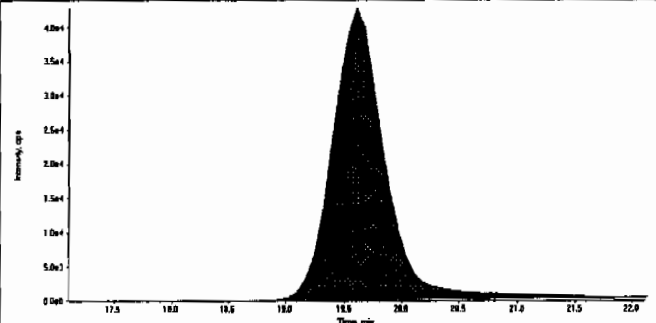
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.7
	Area Counts:	1.08e+006
	Manual Modification	No
	Amount:	587. (ng/mL)
	% Accuracy:	97.80

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.1
	Area Counts:	1.18e+006
	Manual Modification	No
	Amount:	578. (ng/mL)
	% Accuracy:	96.40

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312010.wiff	Acquisition Date	3/12/2010 11:56:18 AM
Sample Name	WXX100312-56ICV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.6
		Area Counts:	1.36e+006
		Manual Modification	No
		Amount:	607. (ng/mL)
		% Accuracy:	101.00

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/12/10  
 Time of Injection 1156  
 Standard Number WXX100312-56ICV  
 Data File EXP0312010a

HMX	96.4
RDX	104.0
TNX	108.0
DNX	102.0
MNX	107.0
135-Trinitrobenzene	96.6
13-Dinitrobenzene	98.8
Tetryl	116.0
246-Trinitrotoluene	91.6
Nitrobenzene	106.0
34-dinitrotoluene	92.4
26-dinitrotoluene	90.9
24-dinitrotoluene	95.1
4-Amino-26-dinitrotoluene	99.6
2-Amino-46-dinitrotoluene	113.0
2-Nitrotoluene	101.0
4-Nitrotoluene	97.8
3-Nitrotoluene	96.4
PETN	101.0

TOTAL

1913.6

*Hmx 03/24/10*

AVERAGE

✓100.7

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Plan*  
*3/24/10*

Form 6

# Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1564

Lab Code: GEL

Run Date: 01-MAR-10 12-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03010003.wif	EXS03010004.wif	EXS03010005.wif	EXS03010006.wif	EXS03010007.wif	EXS03010008.wif	EXS03010009.wif					
Parname:												
2,4-Diamino-6-nitrotoluene	63600	134000	332000	632000	1000000	1320000	2520000	-9230	1370	-.055	.9999	
2,6-Diamino-4-nitrotoluene	91200	188000	474000	956000	1400000	1830000	3670000	6230	1860	-.014	.9999	
3,4-Dinitrotoluene	296000	604000	1440000	2810000	4210000	5760000	10400000	-77900	13100	-2.67	.999	
3,5-Dinitroaniline	436000	871000	2060000	3980000	5810000	7200000	13000000	75700	8100	-.824	.9998	
TATB	50800	111000	287000	578000	908000	1260000	2600000	-14200	1190	.058	.9999	
tris(o-cresyl) phosphate	864000	1800000	4120000	7770000	11400000	14300000	24200000	110000	16500	-2.25	1	

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

COD is Coefficient of Determination

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

\* Values outside of QC Limit

030110ICAL

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

Fit Quadratic weighting  
a0 -1.42e+004  
a1 1.19e+003  
a2 0.0579  
Correlation coefficient 0.9999  
Use Area

Iterate No

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

Fit Quadratic weighting  
a0 7.57e+004  
a1 8.1e+003  
a2 -0.824  
Correlation coefficient 0.9998  
Use Area

Iterate No

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

Fit Quadratic weighting  
a0 -7.79e+004  
a1 1.31e+004  
a2 -2.67  
Correlation coefficient 0.9990  
Use Area

Iterate No

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

Fit Quadratic weighting  
a0 6.23e+003  
a1 1.86e+003  
a2 -0.0141  
Correlation coefficient 0.9999  
Use Area

Iterate No

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

*Jan*  
*3/13/10*

*Jan*  
*03/10/10*

Page 1

030110ICAL

Iterate No

None

Weighting

Fit Quadratic  
a0 -9.23e+003  
a1 1.37e+003  
a2 -0.0545

Correlation coefficient 0.9999  
Use Area

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

Iterate No

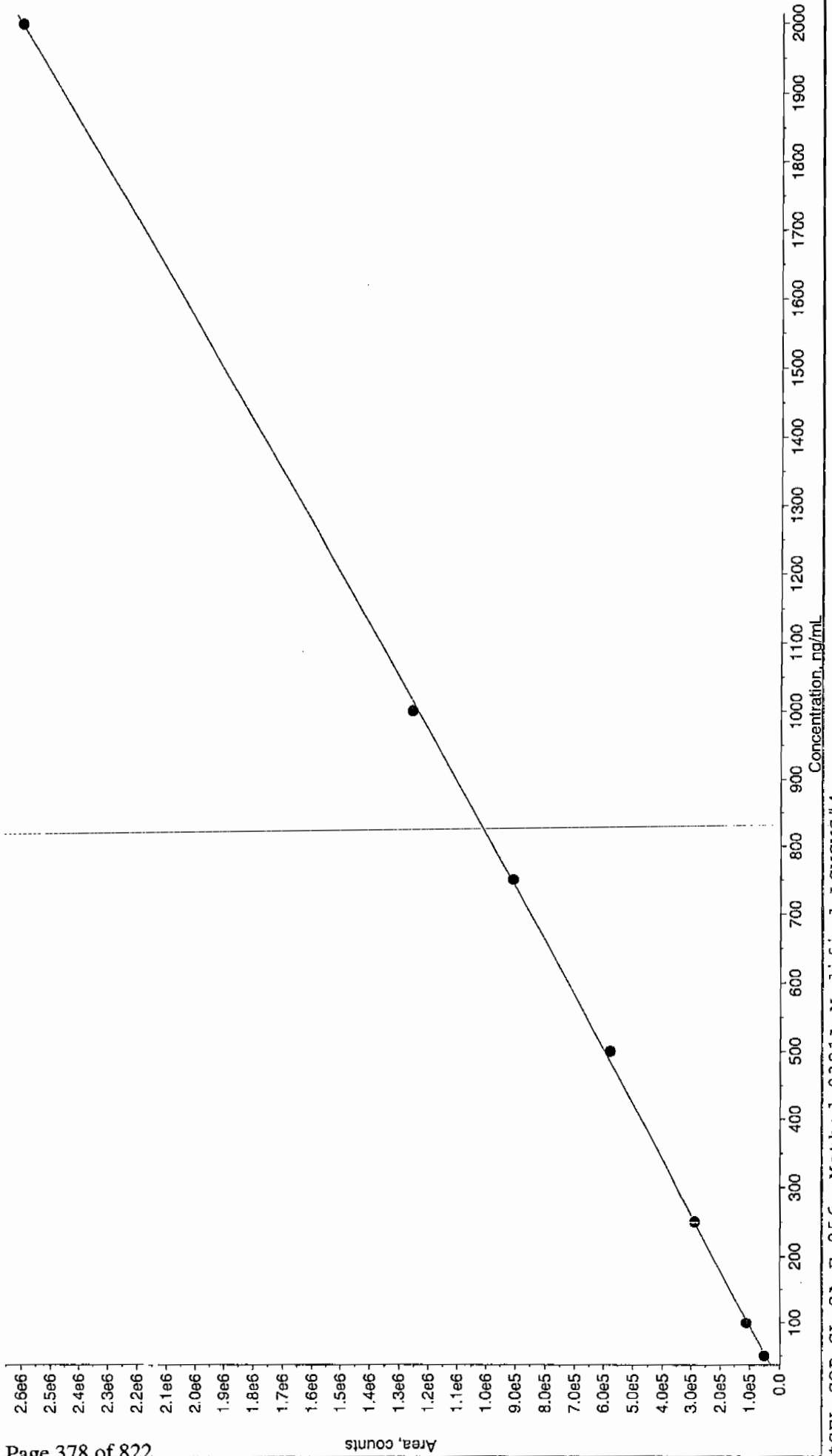
None

Weighting

Fit Quadratic  
a0 1.1e+005  
a1 1.65e+004  
a2 -2.25

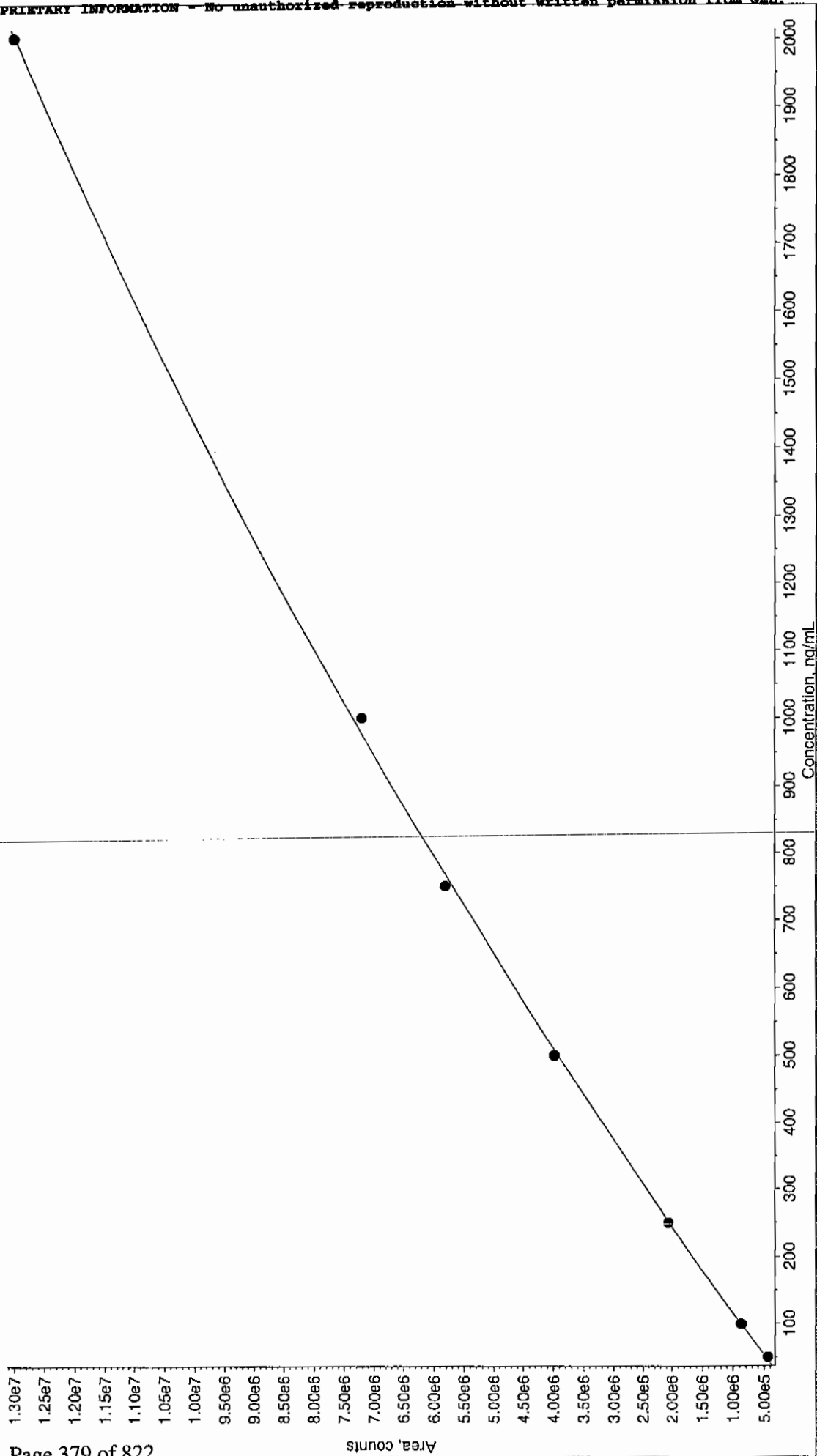
Correlation coefficient 1.0000  
Use Area

030110.rdb (TATB): "Quadratic" Regression ("No" weighting):  $y = 0.0579 x^2 + 1.19e+003 x + -1.42e+004$  ( $r = 0.9999$ )



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

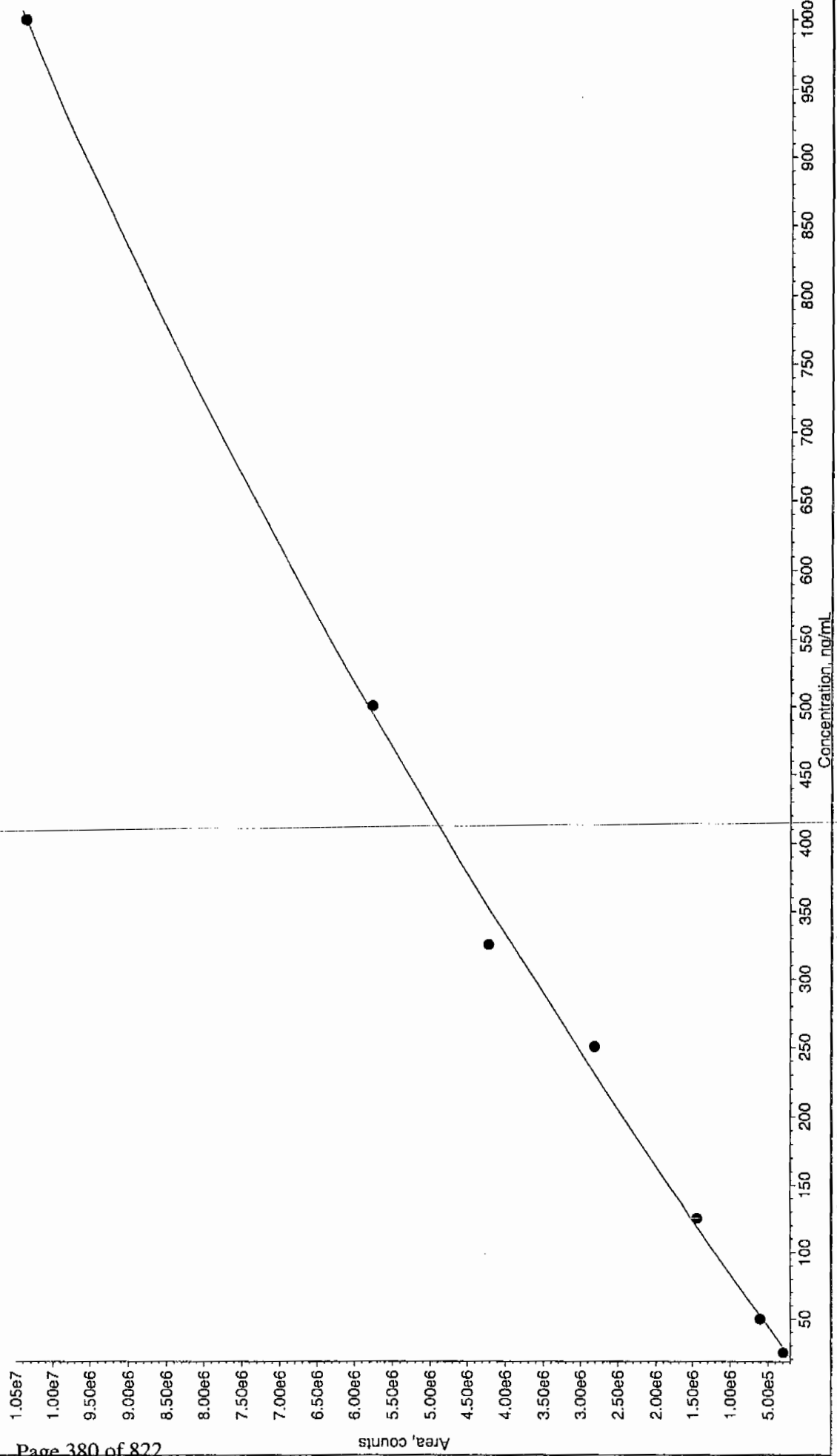
030110.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting):  $y = -0.824 x^2 + 8.1e+003 x + 7.57e+004$  ( $r = 0.9998$ )



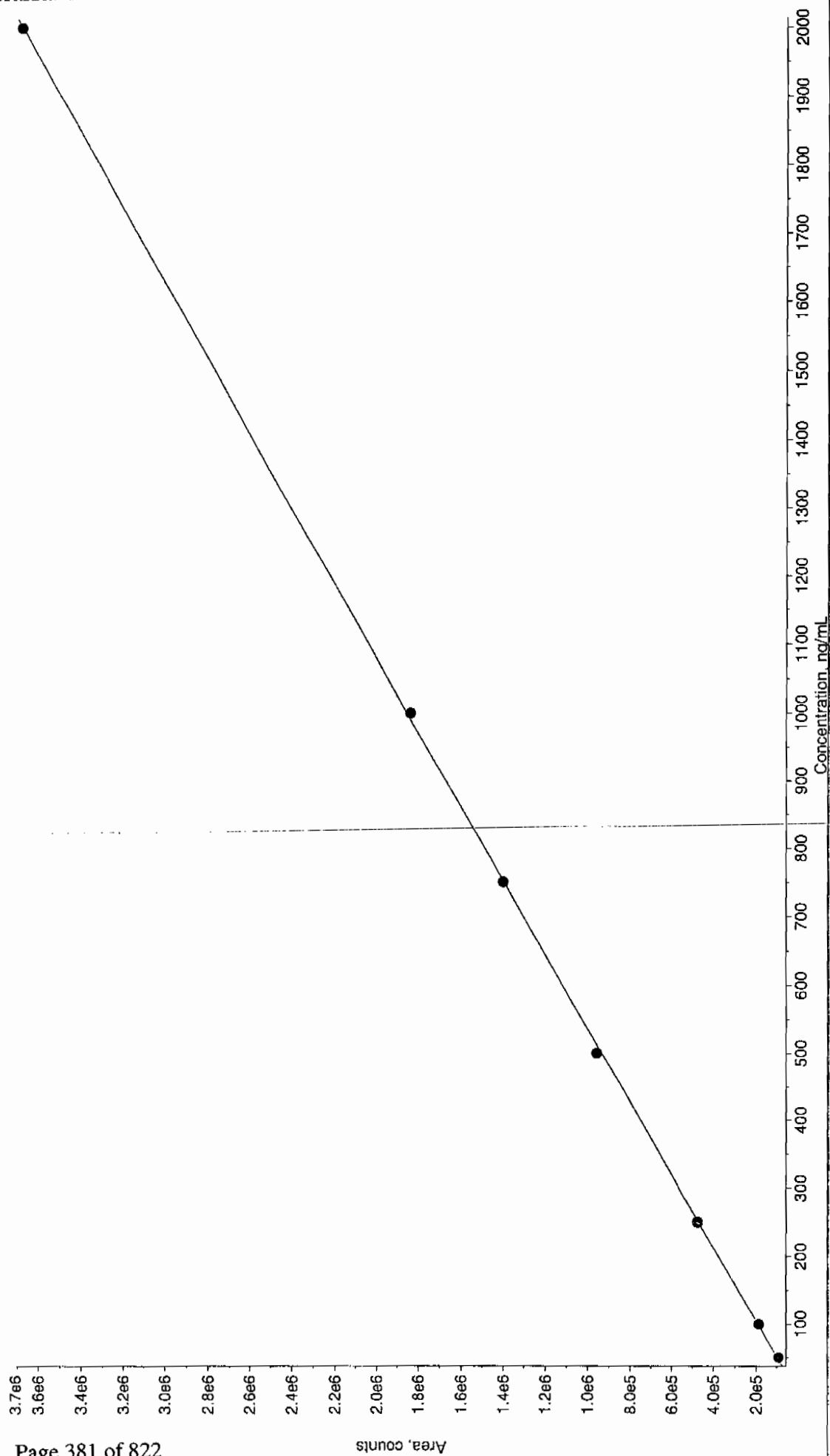
\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



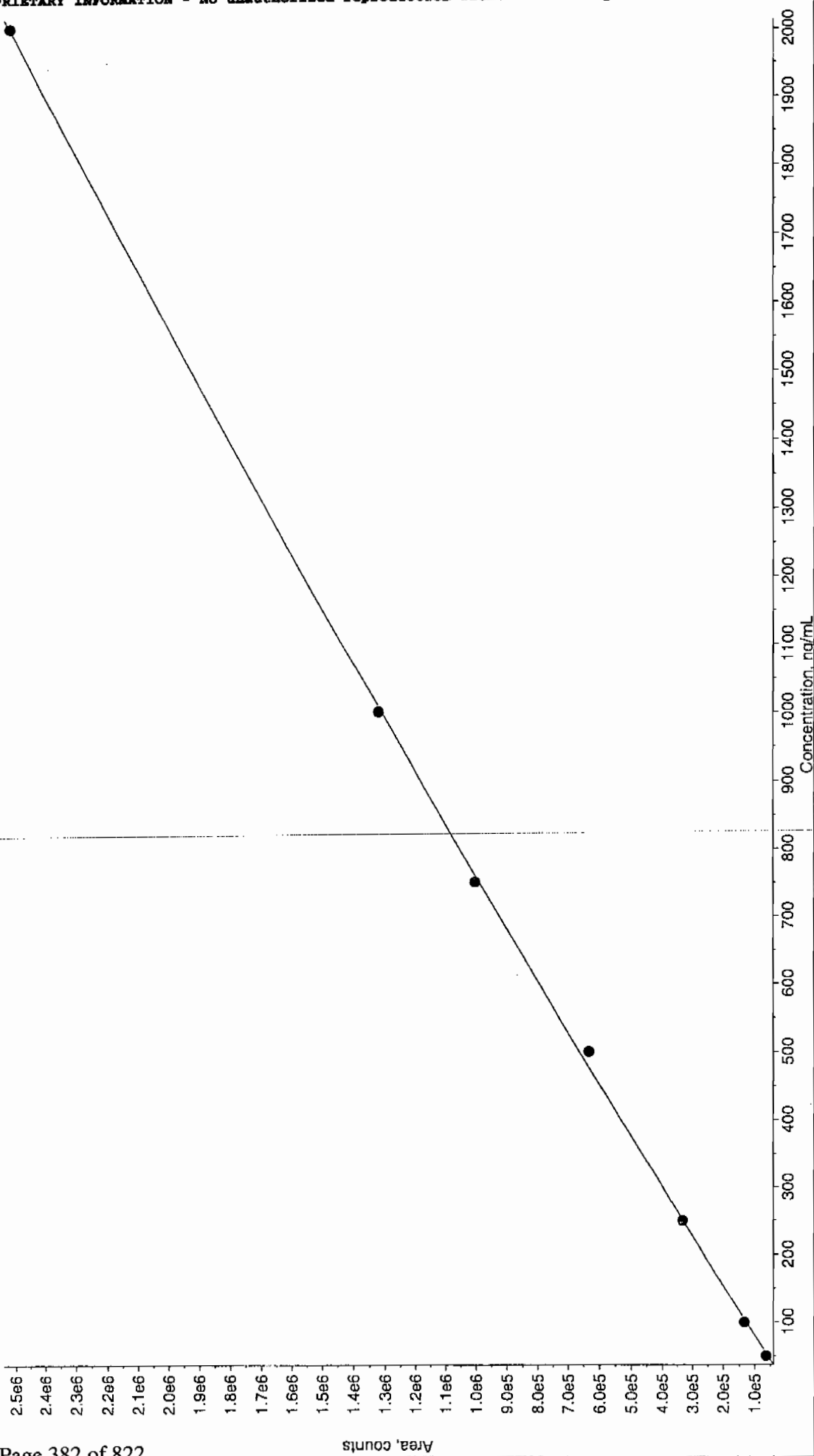
030110.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting):  $y = -2.67 x^2 + 1.31e+004 x + -7.79e+004$  ( $r = 0.9990$ )



030110.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting):  $y = -0.0141 x^2 + 1.86e+003 x + 6.23e+003$  ( $r = 0.9999$ )

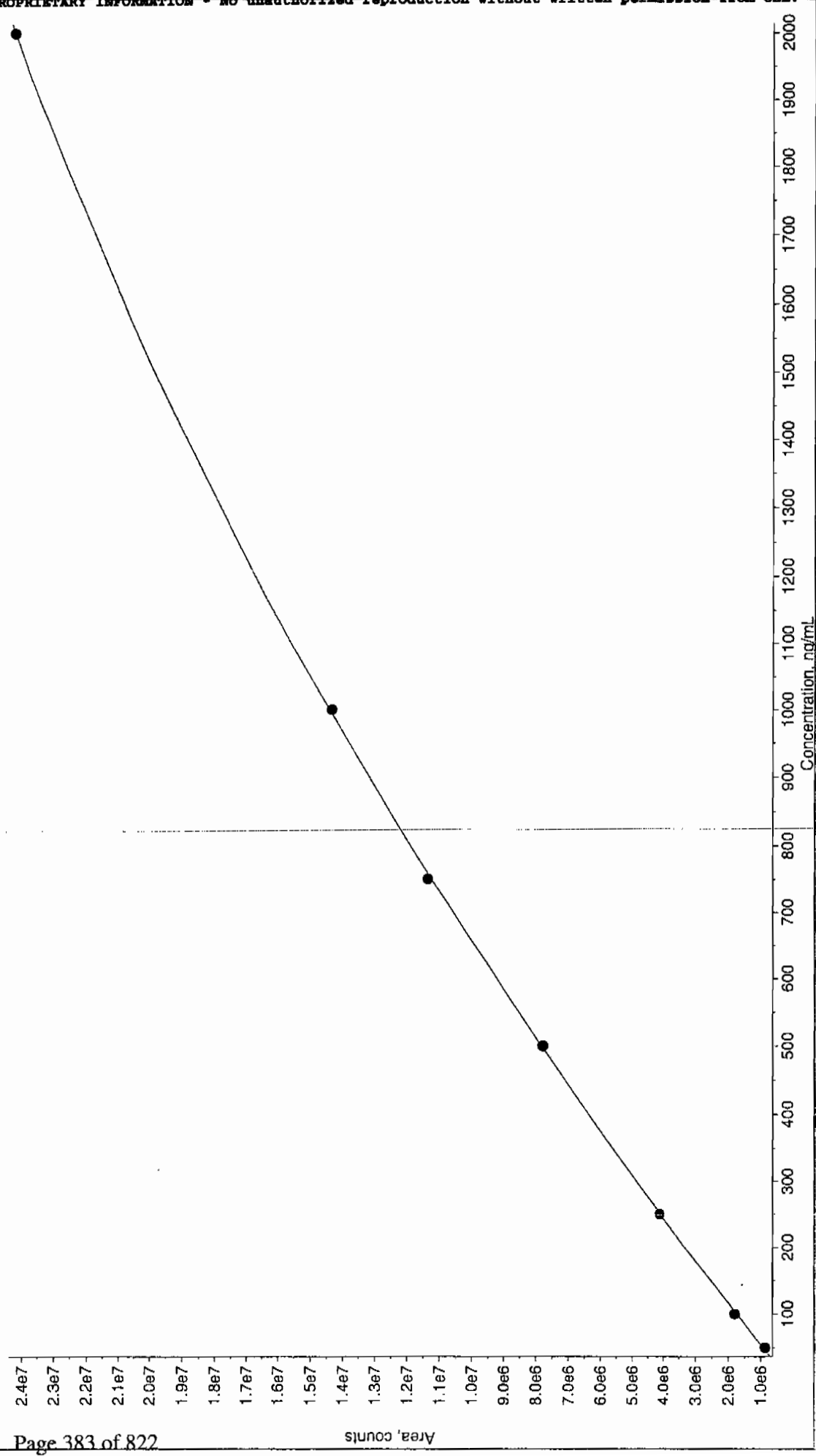


030110.rdb (24-Diamino-6-nitrotoluene): "No" weighting):  $y = -0.0545 x^2 + 1.37e+003 x + -9.23e+003$  ( $r = 0.9999$ )



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

030110.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting):  $y = -2.25 \times 10^{-5} x^2 + 1.65 \times 10^{-4} x + 1.1 \times 10^5$  ( $r = 1.0000$ )



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03010011.wiff

Analysis Date: 01-MAR-10 11:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	483	97	
3,4-Dinitrotoluene	250	232	93	
3,5-Dinitroaniline	500	506	101	
TATB	500	495	99	
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

kan 3/3/10

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Sample Name: "WXX100301-256CV" Sample ID: "11LER" File: "EX503010011.wif"

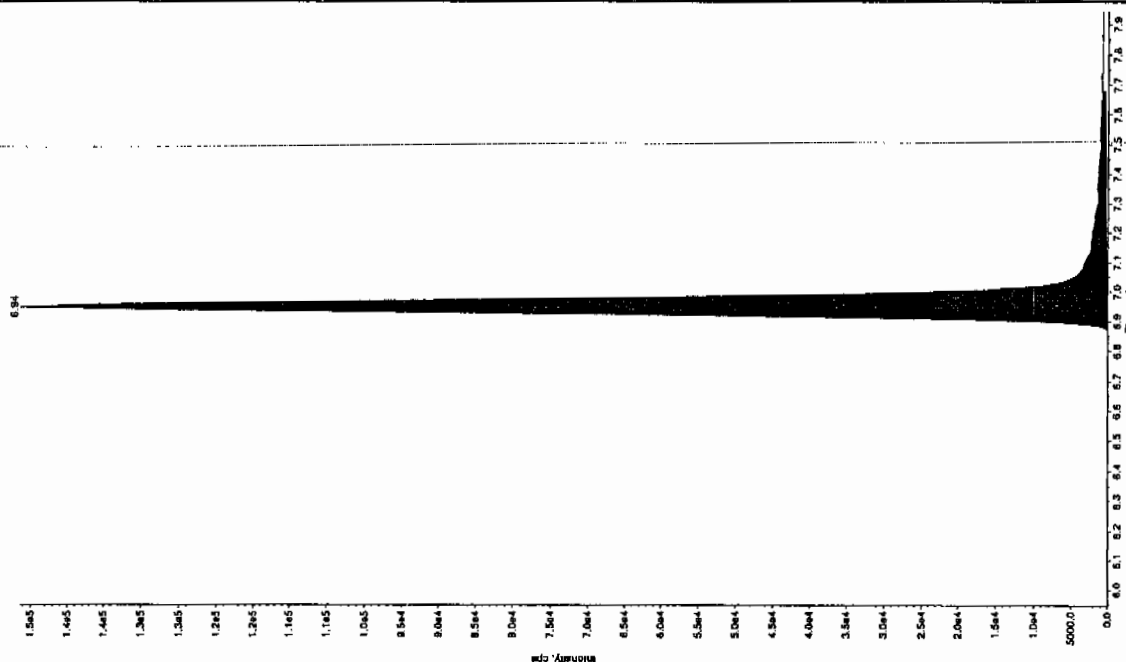
Peak Name: "3S-Dinitrophenol" Mass(es): "182.0465.0 amu"

Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: OC  
 Concentration: 500. ng/mL  
 Calculated Conc: 506. ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:40:26 AM

Modified: No  
 Proc. Algorithm: InCelliQuan - IOA  
 Min. Peak Height: 2000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.19 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 8.19 min  
 Area: 3.96e+006 counts  
 Height: 1061462.891 cps  
 Start Time: 8.09 min  
 End Time: 8.29 min



Sample Name: "WXX100301-256CV" Sample ID: "11LER" File: "EX503010011.wif"

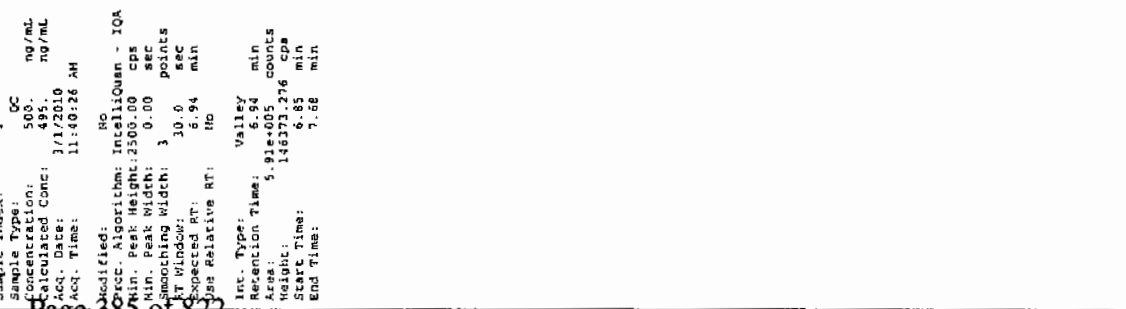
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: OC  
 Concentration: 500. ng/mL  
 Calculated Conc: 495. ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:40:26 AM

Modified: No  
 Proc. Algorithm: InCelliQuan - IOA  
 Min. Peak Height: 2500.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 6.94 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 6.94 min  
 Area: 5.91e+005 counts  
 Height: 146373.276 cps  
 Start Time: 6.85 min  
 End Time: 7.08 min

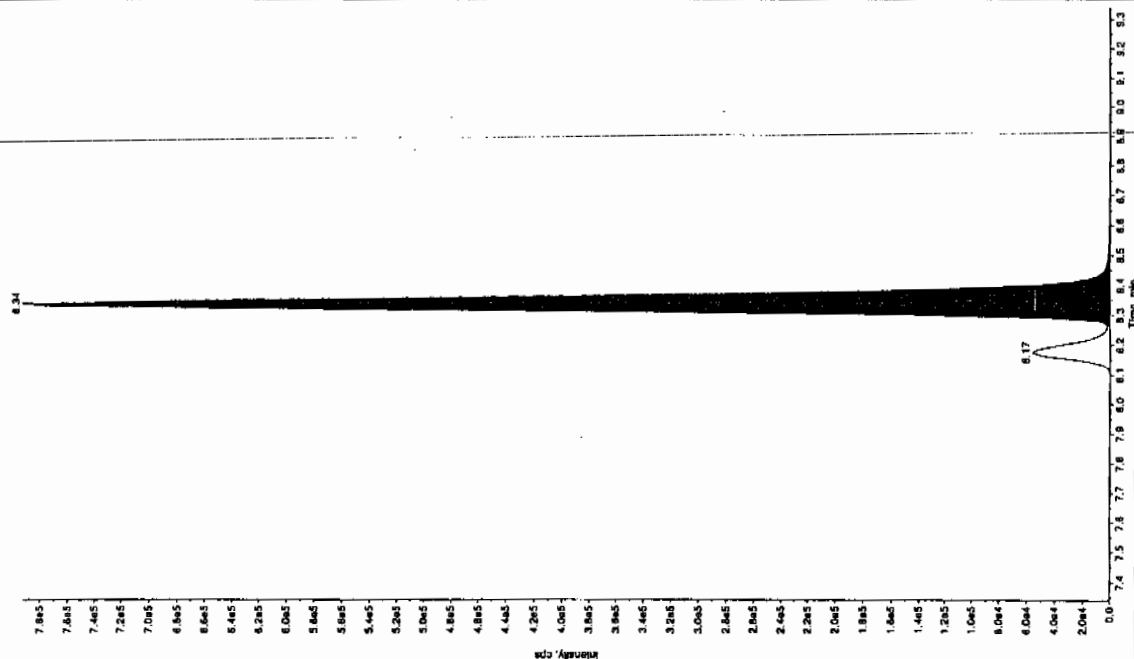


kan 3/3/10

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

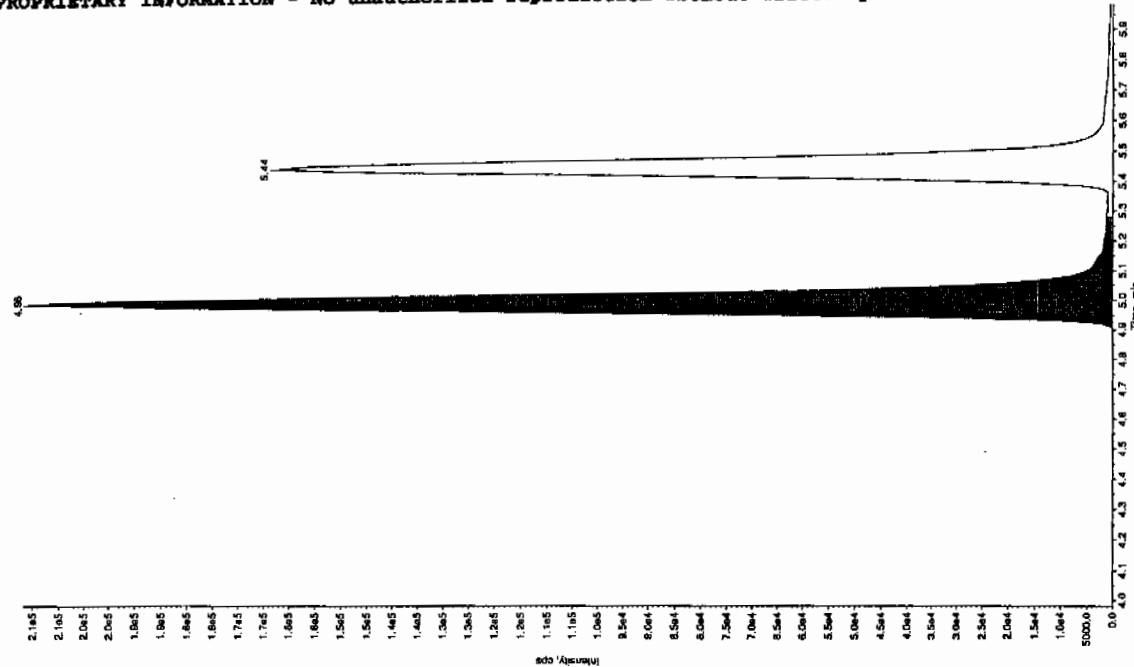
Sample Name: "WXX100301-260V" Sample ID: "ILEP" File: "EXS03010011.wif"  
 Peak Name: "34-Chloroethane" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 250. ng/mL  
 Calculated Conc: 232. ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:40:26 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 3.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.34 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.34 min  
 Area: 2.42e+006 counts  
 Height: 791388.123 cps  
 Start Time: 8.27 min  
 End Time: 8.67 min



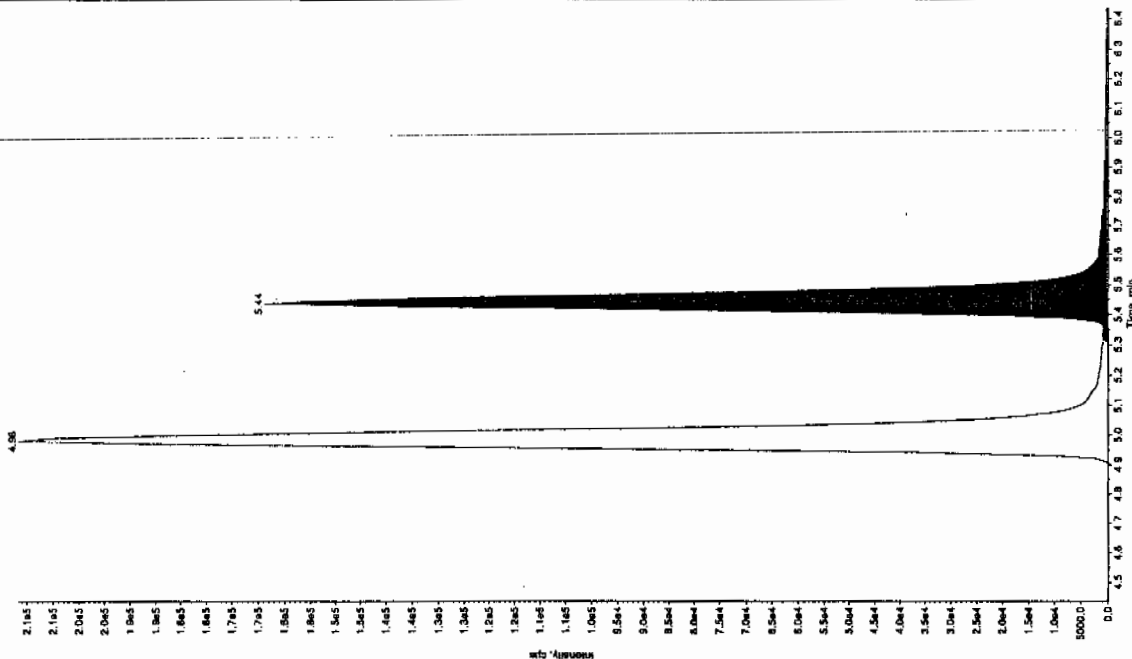
Sample Name: "WXX100301-260V" Sample ID: "ILEP" File: "EXS03010011.wif"  
 Peak Name: "26-Diamino-4-nitroethane" Mass(es): "166.0/146.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 483. ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:40:26 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: 4.98 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.98 min  
 Area: 9.01e+005 counts  
 Height: 211703.171 cps  
 Start Time: 4.89 min  
 End Time: 5.28 min



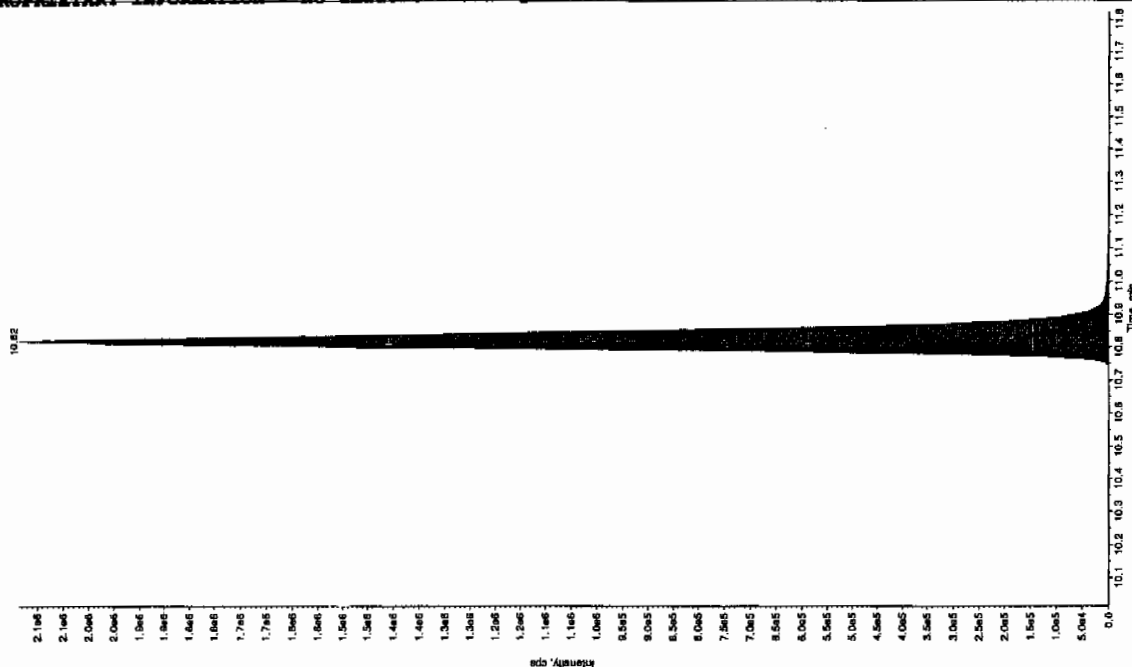
Sample Name: WXX100301-250V Sample ID: 111ER File: EX503010011.wif  
 Peak Name: 24-Diamino-6-nitroindane Mass(es): 165.046.0 amu  
 Comment: LCMSEXP\_C Annotation: "

Sample Index: 1  
 Sample Type: OC  
 Concentration: 500. ng/mL  
 Calculated Conc: 503. ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:40:26 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 350.00 cps  
 Min. Peak Width: 3.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 5.44 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.44 min  
 Area: 6.68e+005 counts  
 Height: 163585.648 cps  
 Start Time: 5.31 min  
 End Time: 6.14 min



Sample Name: WXX100301-280CV Sample ID: 111ER File: EX503010011.wif  
 Peak Name: 1is(o-cresyl) phosphite Mass(es): 369.191.0 amu  
 Comment: LCMSEXP\_C Annotation: "

Sample Index: 1  
 Sample Type: OC  
 Concentration: 500. ng/mL  
 Calculated Conc: 480. ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 11:40:26 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: 7.53e+006 counts  
 Height: 2135354.004 cps  
 Start Time: 10.7 min  
 End Time: 11.2 min





7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312012.wiff

Analysis Date: 12-MAR-10 12:49

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	51.9	130	
2,4,6-Trinitrotoluene	40	54	135	
2,4-Dinitrotoluene	40	42.5	106	
2,6-Dinitrotoluene	40	34.7	87	
2-Amino-4,6-dinitrotoluene	40	34.3	86	
3,4-Dinitrotoluene	20	22.6	113	
4-Amino-2,6-dinitrotoluene	40	48.1	120	
DNX	40	40.2	101	
HMX	40	40.9	102	
MXN	40	39.8	100	
Nitrobenzene	40	39.9	100	
PETN	40	41.2	103	
RDX	40	39.4	99	
TNX	40	41.7	104	
Tetryl	40	46.5	116	
m-Dinitrobenzene	40	42.4	106	
m-Nitrotoluene	40	39	98	
o-Nitrotoluene	40	40.7	102	
p-Nitrotoluene	40	38.4	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 50-150%

Other Target Analytes 70-130%

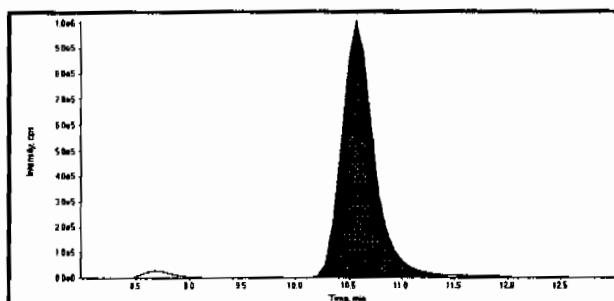
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

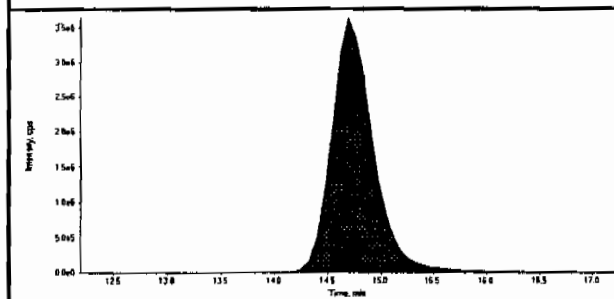
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

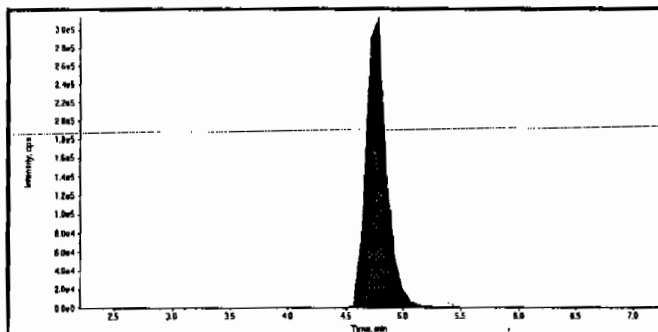
Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



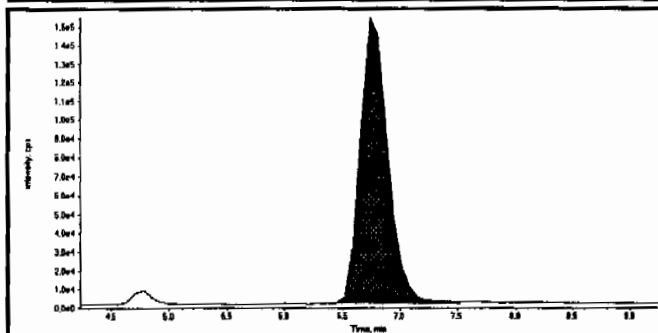
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	21600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	99300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.03e+006
Manual Modification	No
Amount:	40.9 (ng/mL)
% Accuracy:	102.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	2.68e+006
Manual Modification	No
Amount:	39.4 (ng/mL)
% Accuracy:	98.60

*Handwritten signatures and dates:*  
 03/24/10  
 3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312012.wiff	<b>Acquisition Date</b>	3/12/2010 12:49:03 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.90e+006
	Manual Modification	No
	Amount:	41.7 (ng/mL)
	% Accuracy:	104.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.49e+006
	Manual Modification	No
	Amount:	40.2 (ng/mL)
	% Accuracy:	101.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.36e+006
	Manual Modification	No
	Amount:	39.8 (ng/mL)
	% Accuracy:	99.60

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	8.97
	Area Counts:	1.36e+007
	Manual Modification	No
	Amount:	51.9 (ng/mL)
	% Accuracy:	130.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312012.wiff	<b>Acquisition Date</b>	3/12/2010 12:49:03 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	4.89e+006
	Manual Modification	No
	Amount:	42.4 (ng/mL)
	% Accuracy:	106.00

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	6.93e+006
	Manual Modification	No
	Amount:	46.5 (ng/mL)
	% Accuracy:	116.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.51e+007
	Manual Modification	No
	Amount:	54.0 (ng/mL)
	% Accuracy:	135.00

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.61e+005
	Manual Modification	No
	Amount:	39.9 (ng/mL)
	% Accuracy:	99.70

Before Jan 3/24/10

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Sample Name: "WXX100312-51" Sample ID: "118-51" File: "EXP00312012.m" Comment: "LCHSEXP\_C" Annotation: "

Peak Name: "24-dinitrofluorene" Mass(es): "118.0450 amu"

Sample Index: 1 QC

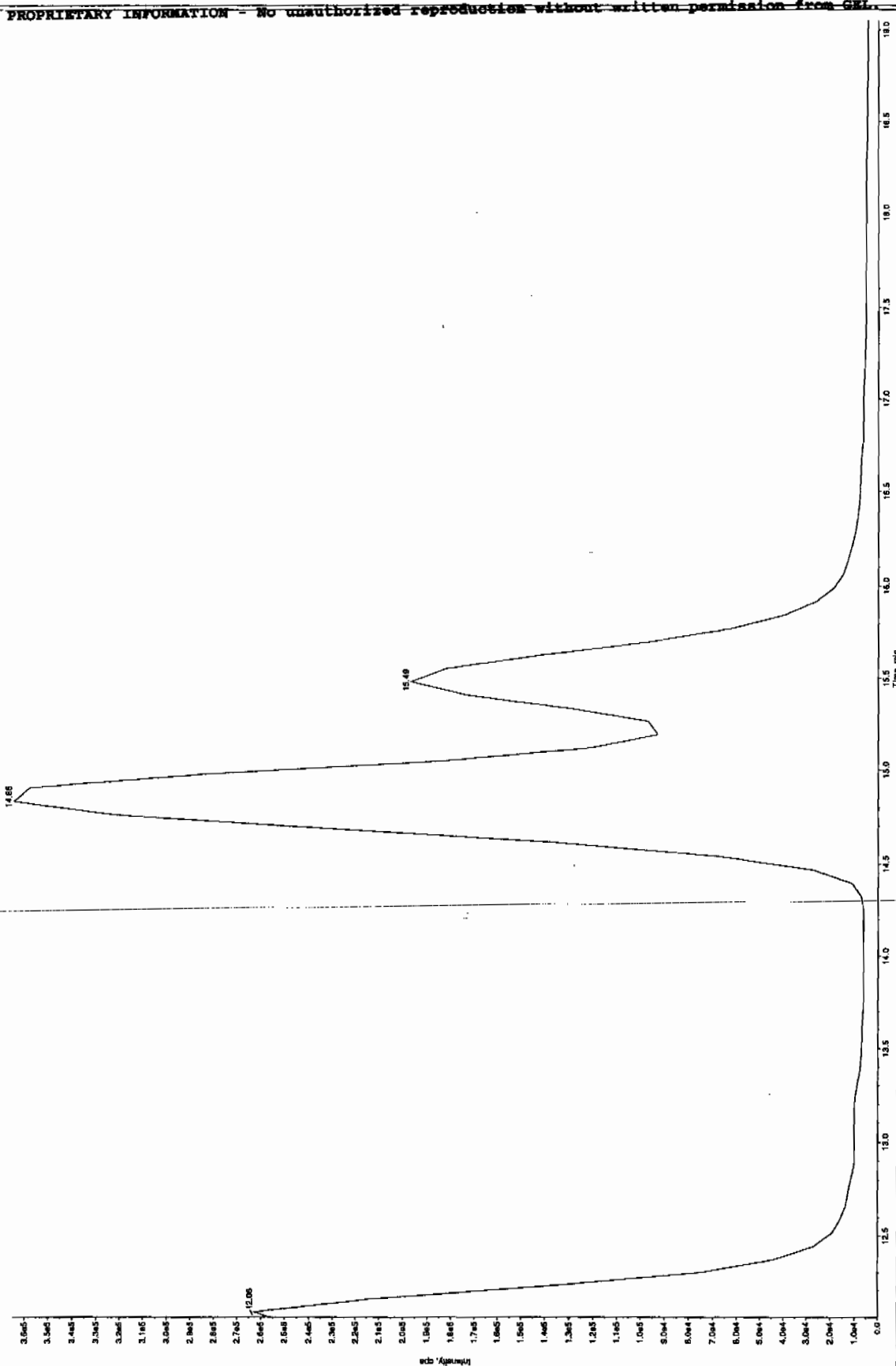
Concentration: 46.0 ng/mL

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/22/2010

Acq. Time: 13:49:13 PM

Modified: No



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312012.wiff	<b>Acquisition Date</b>	3/12/2010 12:49:03 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	5.53e+006
	Manual Modification	No
	Amount:	22.6 (ng/mL)
	% Accuracy:	113.00

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.8
	Area Counts:	9.23e+006
	Manual Modification	No
	Amount:	34.7 (ng/mL)
	% Accuracy:	86.70

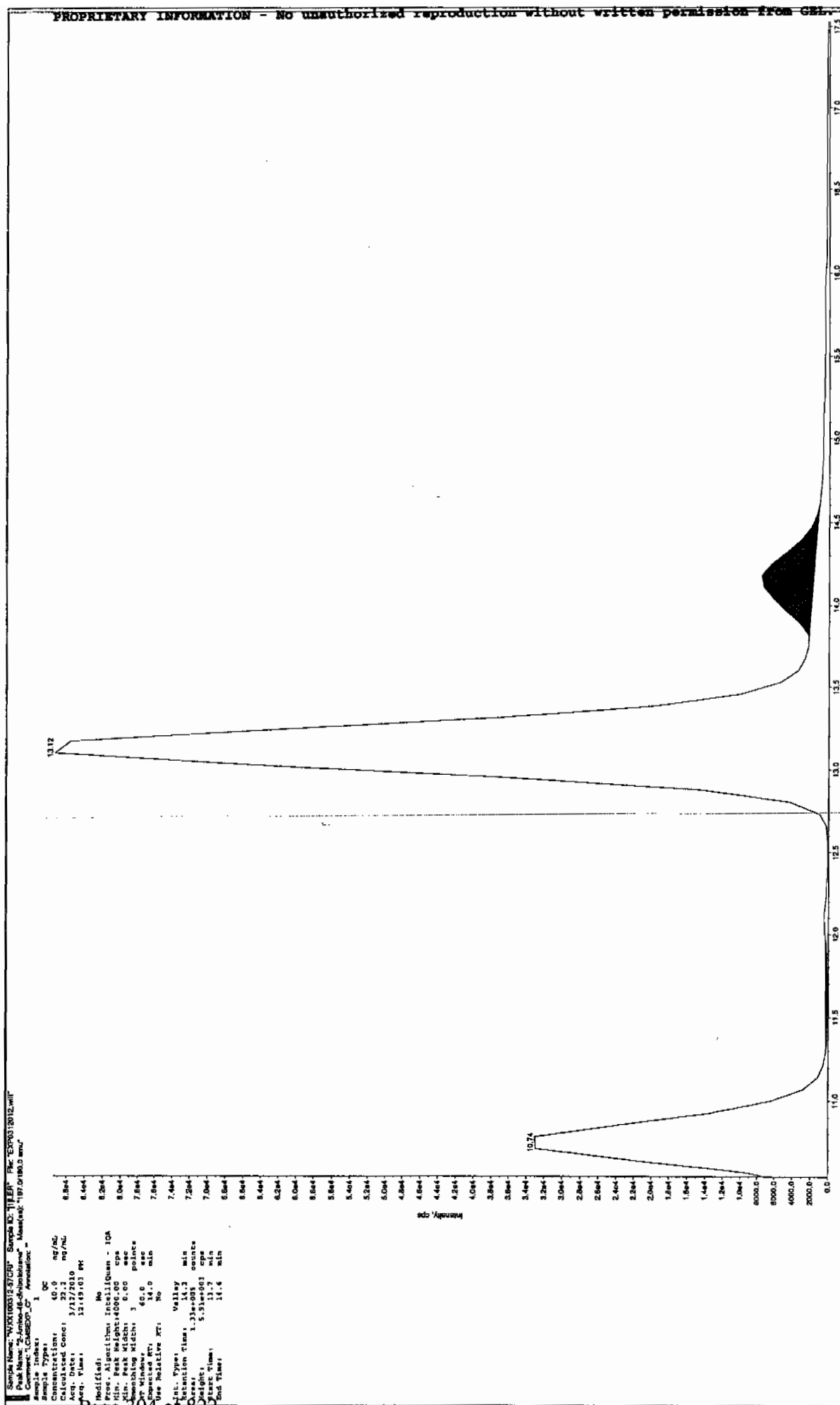
  

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.5
	Area Counts:	4.97e+006
	Manual Modification	Yes
	Amount:	42.5 (ng/mL)
	% Accuracy:	106.00

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	8.90e+006
	Manual Modification	No
	Amount:	48.1 (ng/mL)
	% Accuracy:	120.00

Before Jan 3/24/10

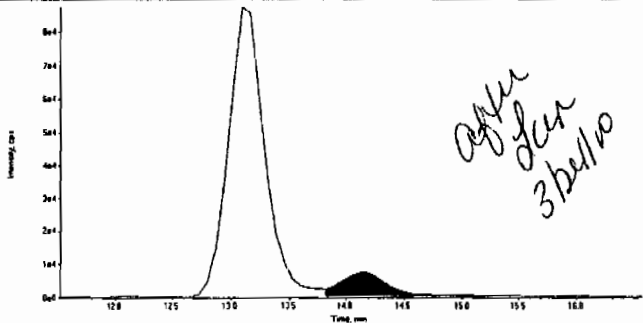


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

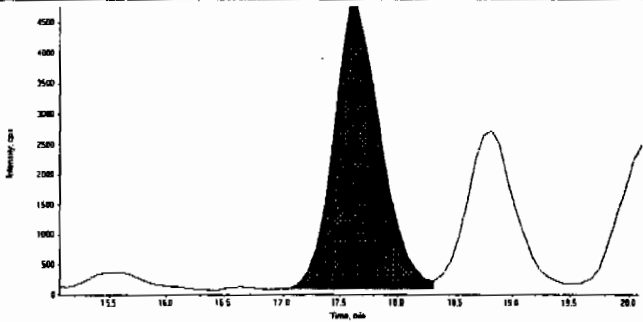
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312012.wiff	<b>Acquisition Date</b>	3/12/2010 12:49:03 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

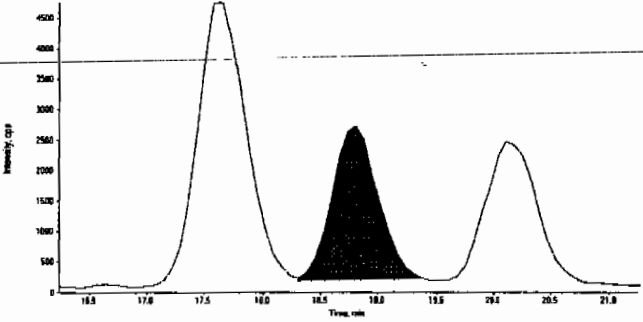
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.2
	<b>Area Counts:</b>	2.06e+005
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	34.3 (ng/mL)
	<b>% Accuracy:</b>	85.80

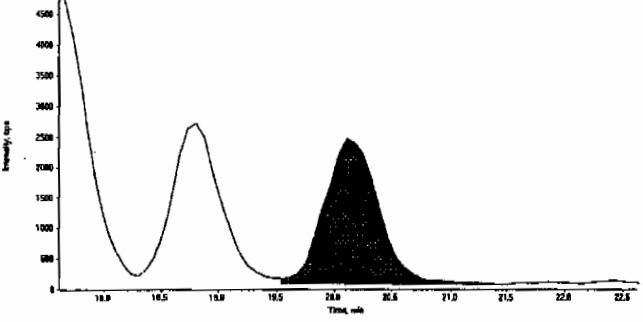
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.7
	<b>Area Counts:</b>	1.37e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	40.7 (ng/mL)
	<b>% Accuracy:</b>	102.00

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	18.8
	<b>Area Counts:</b>	7.11e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	38.4 (ng/mL)
	<b>% Accuracy:</b>	96.00

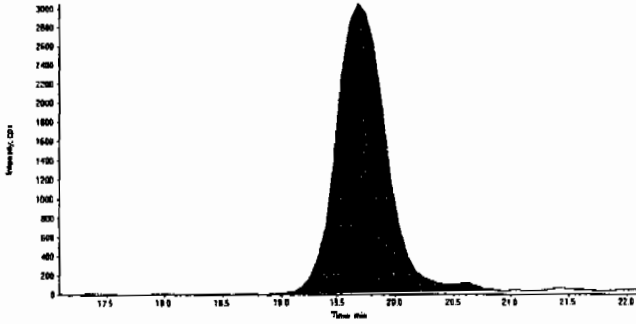
  

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.1
	<b>Area Counts:</b>	8.03e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	39.0 (ng/mL)
	<b>% Accuracy:</b>	97.50



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312012.wiff	Acquisition Date	3/12/2010 12:49:03 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	9.29e+004
		Manual Modification	No
		Amount:	41.2 (ng/mL)
		% Accuracy:	103.00

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/12/10  
 Time of Injection 1259  
 Standard Number WXX100312-57CRI  
 Data File EXP0312012a

HMX	102.0
RDX	98.6
TNX	104.0
DNX	101.0
MXN	99.6
135-Trinitrobenzene	130.0
13-Dinitrobenzene	106.0
Tetryl	116.0
246-Trinitrotoluene	135.0
Nitrobenzene	99.7
34-dinitrotoluene	113.0
26-dinitrotoluene	126.0
24-dinitrotoluene	106.0
4-Amino-26-dinitrotoluene	120.0
2-Amino-46-dinitrotoluene	85.8
2-Nitrotoluene	102.0
4-Nitrotoluene	96.0
3-Nitrotoluene	97.5
PETN	103.0

TOTAL 2041.2

AVERAGE

✓ 107.4

ICV Limits 85-115%  
 CRI Limits 70-130%  
 CCV Limits 85-115%

No single analyte > +/- 60%

*Handwritten:* HMM 03/24/10

*Handwritten:* LCA  
 3/24/10

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312022.wiff

Analysis Date: 12-MAR-10 17:13

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
o-Nitrotoluene	600	546	91	
p-Nitrotoluene	600	515	86	
1,3,5-Trinitrobenzene	600	510	85	
2,4,6-Trinitrotoluene	600	530	88	
2,4-Dinitrotoluene	600	568	95	
2,6-Dinitrotoluene	600	591	98	
2-Amino-4,6-dinitrotoluene	600	580	97	
3,4-Dinitrotoluene	300	271	90	
4-Amino-2,6-dinitrotoluene	600	542	90	
DNX	600	535	89	
HMX	600	462	77	
MXN	600	550	92	
Nitrobenzene	600	590	98	
PETN	600	538	90	
RDX	600	561	94	
TNX	600	577	96	
Tetryl	600	630	105	
m-Dinitrobenzene	600	546	91	
m-Nitrotoluene	600	564	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%

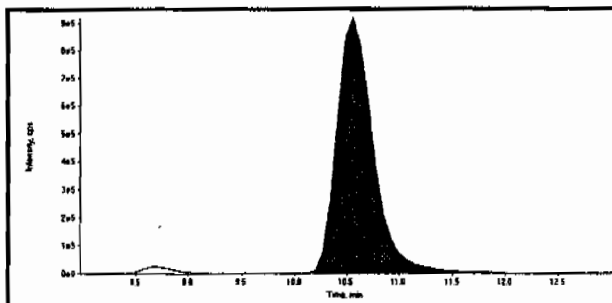
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

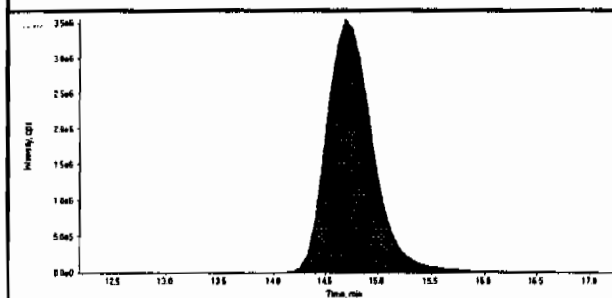
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



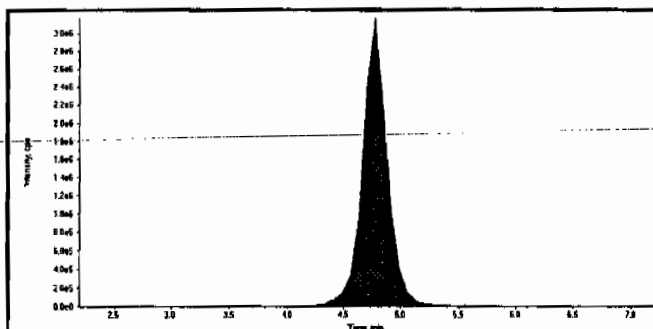
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

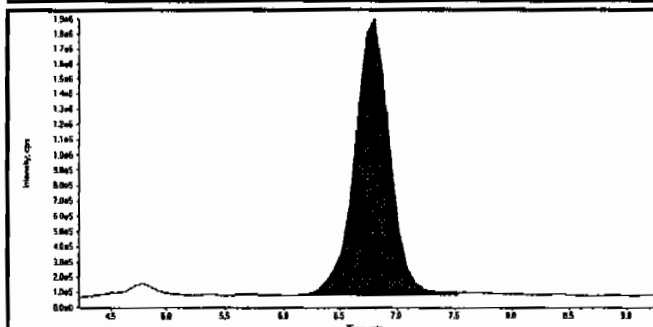


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	109000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.73e+007
Manual Modification	No
Amount:	462. (ng/mL)
% Accuracy:	77.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.96e+007
Manual Modification	No
Amount:	561. (ng/mL)
% Accuracy:	93.50

*Handwritten:* done 03/24/10  
*Signature:* Jan 3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312022.wiff	<b>Acquisition Date</b>	3/12/2010 5:13:04 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	4.17e+007
	Manual Modification	No
	Amount:	577. (ng/mL)
	% Accuracy:	96.10

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.45e+007
	Manual Modification	No
	Amount:	535. (ng/mL)
	% Accuracy:	89.20

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.95e+007
	Manual Modification	No
	Amount:	550. (ng/mL)
	% Accuracy:	91.70

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.40e+008
	Manual Modification	No
	Amount:	510. (ng/mL)
	% Accuracy:	85.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312022.wiff	<b>Acquisition Date</b>	3/12/2010 5:13:04 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	10.7
	<b>Area Counts:</b>	6.56e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	546. (ng/mL)
	<b>% Accuracy:</b>	91.00

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	10.7
	<b>Area Counts:</b>	9.79e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	630. (ng/mL)
	<b>% Accuracy:</b>	105.00

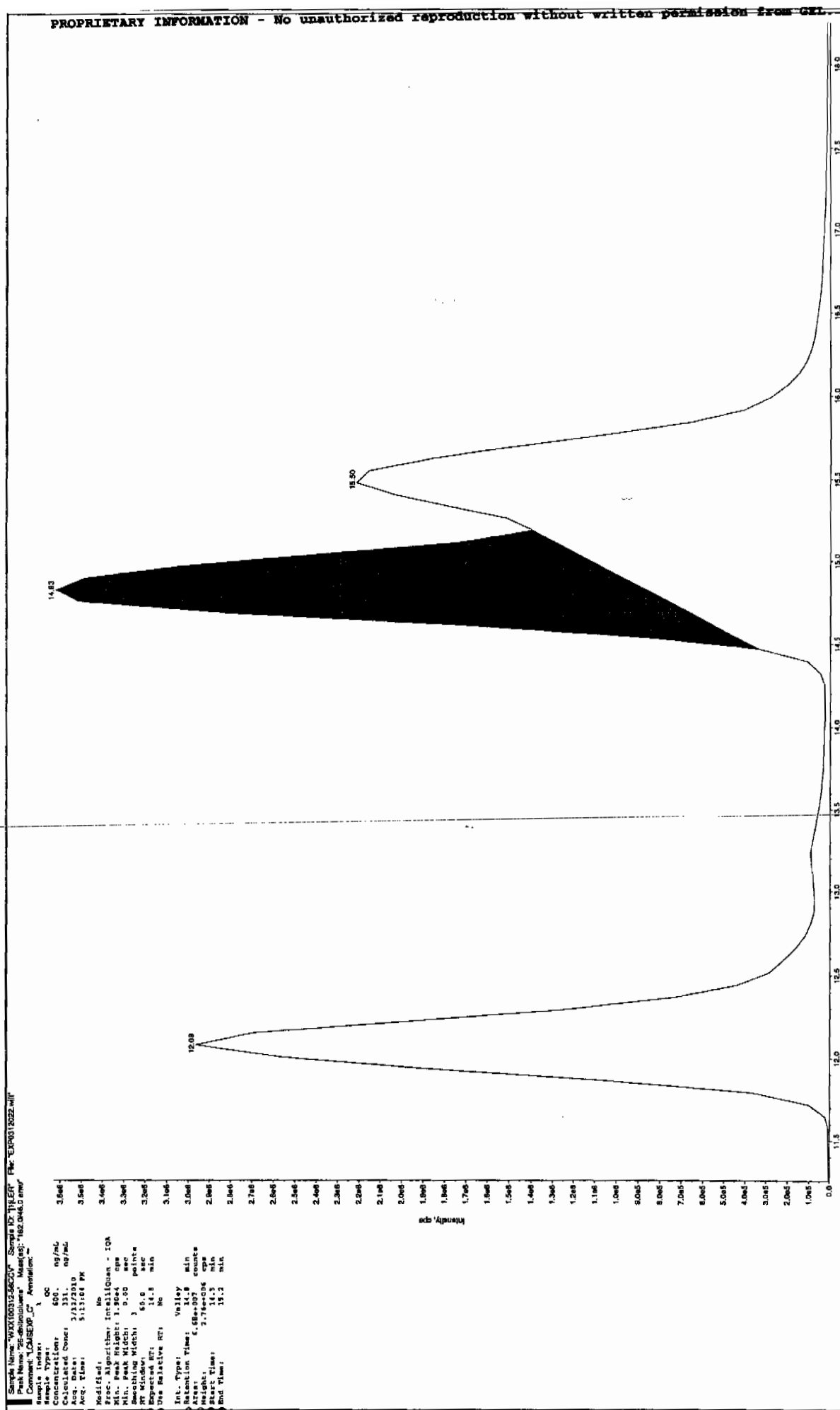
  

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	2.71e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	530. (ng/mL)
	<b>% Accuracy:</b>	88.40

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	11.9
	<b>Area Counts:</b>	4.02e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	590. (ng/mL)
	<b>% Accuracy:</b>	98.40

Before Jan 31/10



Before Jan 31/2010

Sample Name: WAX100312-5600 Sample ID: 111111 File: E5P012022.wif

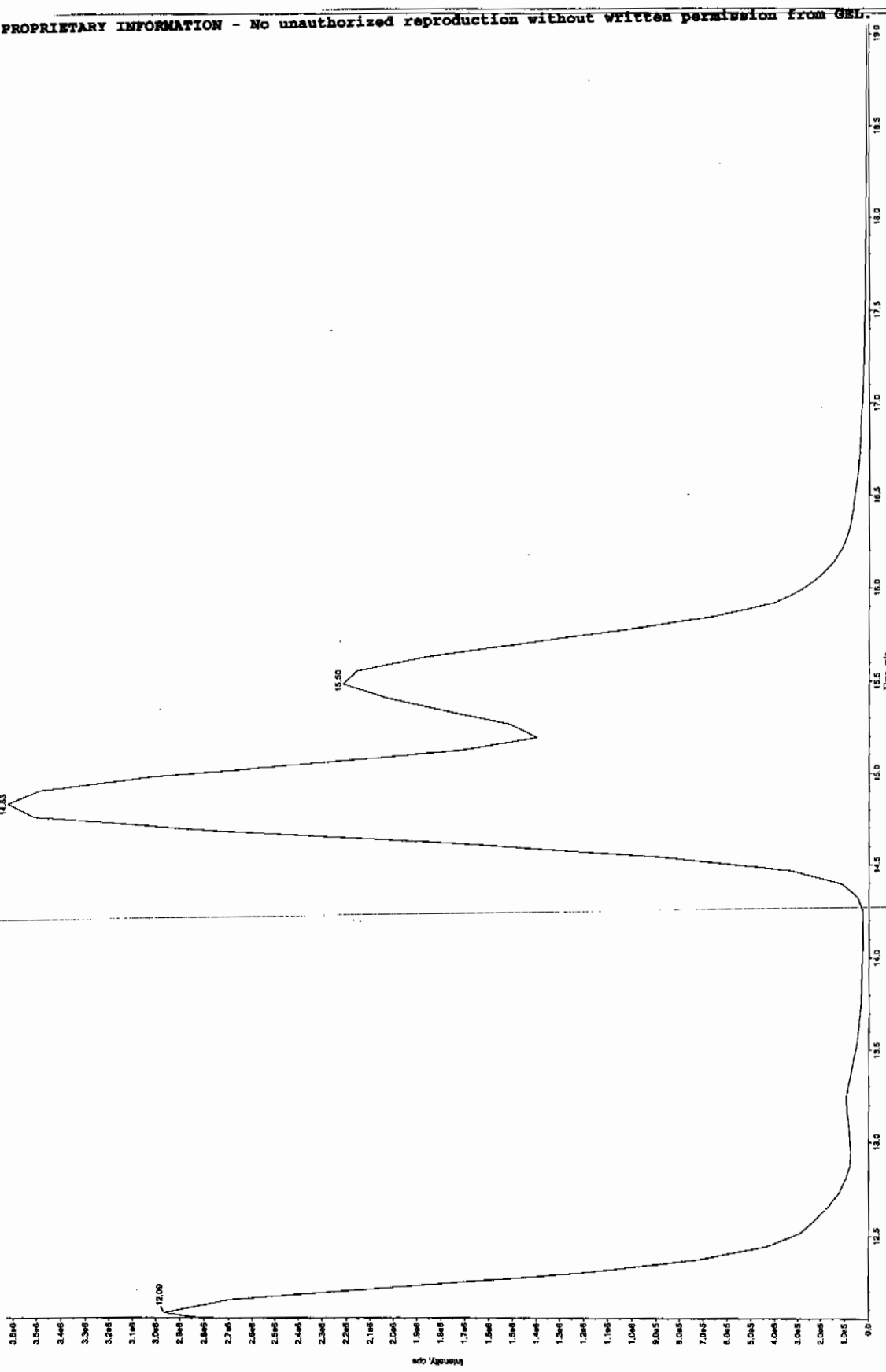
Peak Name: 24-dihydrocortisol Retention: 182.046.0 min

Concentration: 609.0 ng/mL

Calculated Conc: 3.7327010 ng/mL

Acq. Time: 5:13:10.4 PM

Modified: Me





GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312022.wiff	<b>Acquisition Date</b>	3/12/2010 5:13:04 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.1
	<b>Area Counts:</b>	7.28e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	271. (ng/mL)
	<b>% Accuracy:</b>	90.40

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	14.8
	<b>Area Counts:</b>	1.04e+008
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	591. (ng/mL)
	<b>% Accuracy:</b>	98.40

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.5
	<b>Area Counts:</b>	7.28e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	568. (ng/mL)
	<b>% Accuracy:</b>	94.60

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.1
	<b>Area Counts:</b>	1.10e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	542. (ng/mL)
	<b>% Accuracy:</b>	90.30

Before Jan 3/24/00

Sample Name: WXX100312-5622V Sample ID: 11111111 File: E:\00312022.jiff

Peak Name: 2-Amino-46-dihydroquinone - Mass(es): 197.0180.0 amu

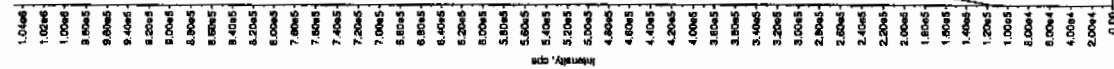
Sample Type: 1 QC

Concentration: 600. ng/mL

Calculated Conc: 0.00 ng/mL

Acq. Time: 1/12/2000 11:13:04 PM

Modified: No

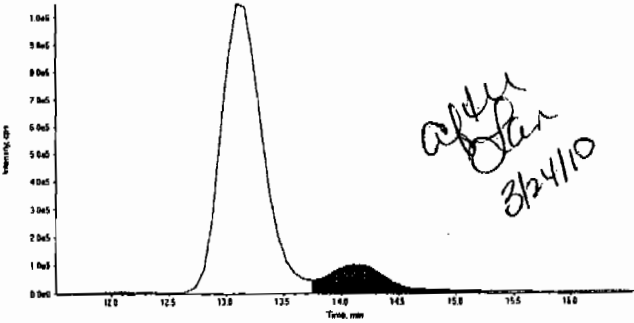


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

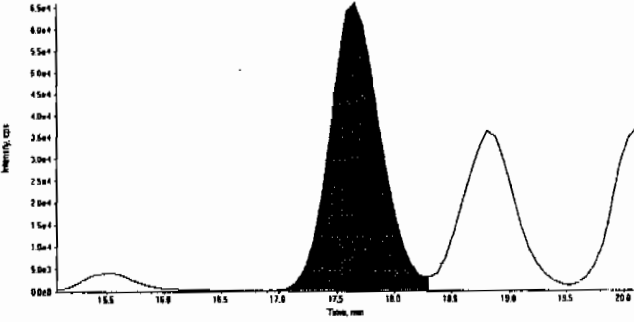
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312022.wiff	<b>Acquisition Date</b>	3/12/2010 5:13:04 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

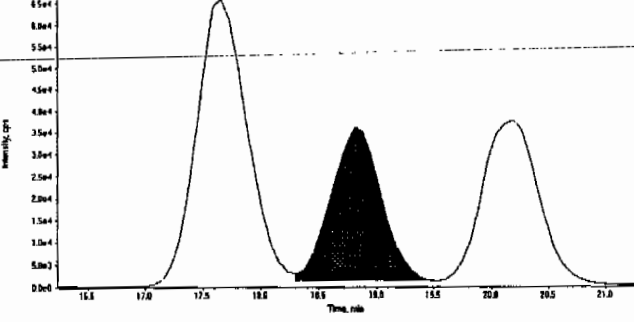
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.1
	<b>Area Counts:</b>	3.82e+006
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	580. (ng/mL)
	<b>% Accuracy:</b>	96.70

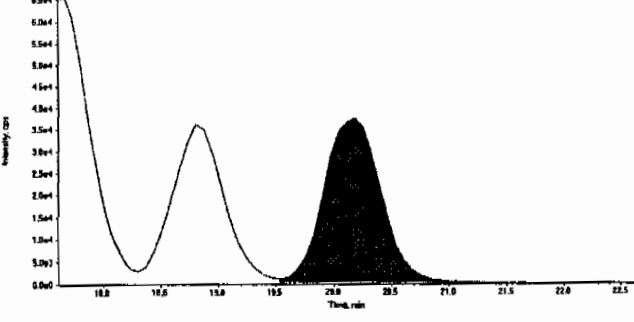
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.7
	<b>Area Counts:</b>	2.02e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	546. (ng/mL)
	<b>% Accuracy:</b>	90.90

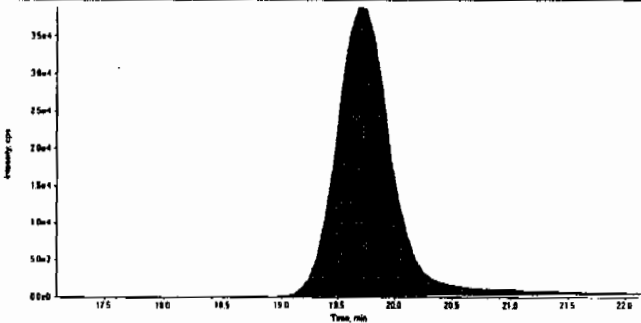
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	18.8
	<b>Area Counts:</b>	1.05e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	515. (ng/mL)
	<b>% Accuracy:</b>	85.80

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.2
	<b>Area Counts:</b>	1.28e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	564. (ng/mL)
	<b>% Accuracy:</b>	94.10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312022.wiff	Acquisition Date	3/12/2010 5:13:04 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	1.33e+006
		Manual Modification	No
		Amount:	538. (ng/mL)
		% Accuracy:	89.70

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/12/10  
 Time of Injection 1713  
 Standard Number WXX100312-56CCV  
 Data File EXP0312022a

HMX	77.0	✓
RDX	93.5	✓
TNX	96.1	
DNX	89.2	
MNX	91.7	
135-Trinitrobenzene	85.0	
13-Dinitrobenzene	91.0	
Tetryl	105.0	
246-Trinitrotoluene	88.4	
Nitrobenzene	98.4	
34-dinitrotoluene	90.4	
26-dinitrotoluene	98.4	
24-dinitrotoluene	94.6	
4-Amino-26-dinitrotoluene	90.3	
2-Amino-46-dinitrotoluene	96.7	
2-Nitrotoluene	90.9	
4-Nitrotoluene	85.8	
3-Nitrotoluene	94.1	
PETN	89.7	

TOTAL

✓  
1746.2

*done 03/12/10*

AVERAGE

✓ 91.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*San  
3/24/10*

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312024.wiff

Analysis Date: 12-MAR-10 18:05

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
HMX	40	40.3	101	
MXN	40	39.8	99	
Nitrobenzene	40	44.5	111	
PETN	40	38.9	97	
RDX	40	41	102	
TNX	40	41	102	
Tetryl	40	49.7	124	
m-Dinitrobenzene	40	44.9	112	
m-Nitrotoluene	40	40	100	
o-Nitrotoluene	40	41.8	105	
p-Nitrotoluene	40	38	95	
1,3,5-Trinitrobenzene	40	48.3	121	
2,4,6-Trinitrotoluene	40	45.3	113	
2,4-Dinitrotoluene	40	41.8	105	
2,6-Dinitrotoluene	40	33.4	83	
2-Amino-4,6-dinitrotoluene	40	39.8	100	
3,4-Dinitrotoluene	20	21.6	108	
4-Amino-2,6-dinitrotoluene	40	44.1	110	
DNX	40	41.4	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%

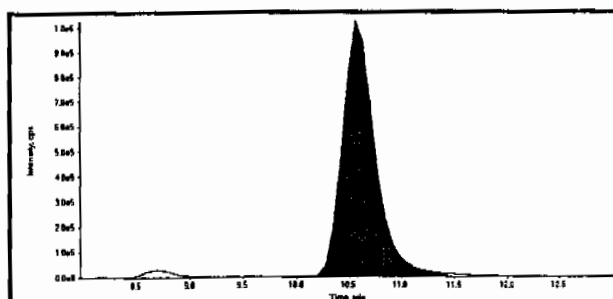
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

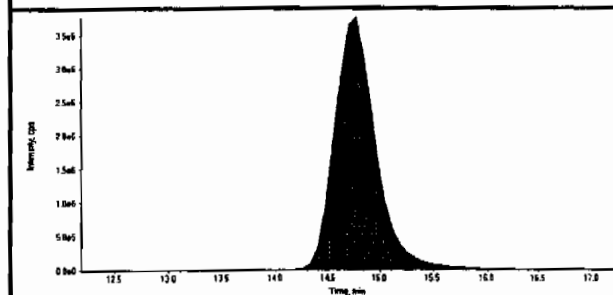
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

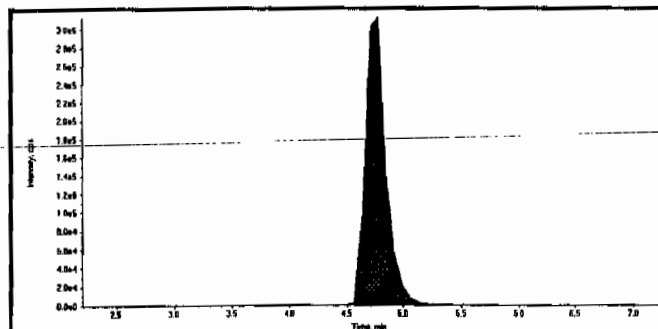
Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



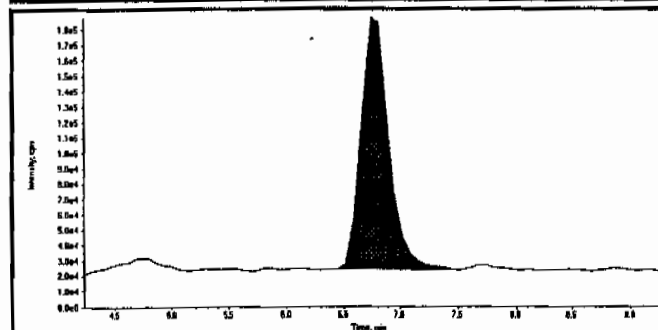
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22600000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	105000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.15e+006
Manual Modification	No
Amount:	40.3 (ng/mL)
% Accuracy:	101.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	2.91e+006
Manual Modification	No
Amount:	41.0 (ng/mL)
% Accuracy:	102.00

*Handwritten:* 03/24/10

*Handwritten:* Lar 3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312024.wiff	<b>Acquisition Date</b>	3/12/2010 6:05:52 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.98e+006
	Manual Modification	No
	Amount:	41.0 (ng/mL)
	% Accuracy:	102.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.35
	Area Counts:	2.68e+006
	Manual Modification	No
	Amount:	41.4 (ng/mL)
	% Accuracy:	103.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.42e+006
	Manual Modification	No
	Amount:	39.8 (ng/mL)
	% Accuracy:	99.40

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	8.97
	Area Counts:	1.33e+007
	Manual Modification	No
	Amount:	48.3 (ng/mL)
	% Accuracy:	121.00

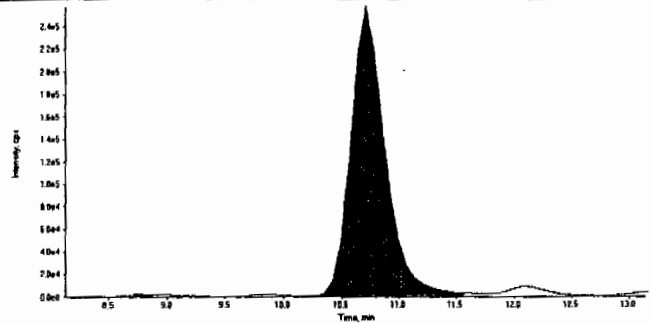


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

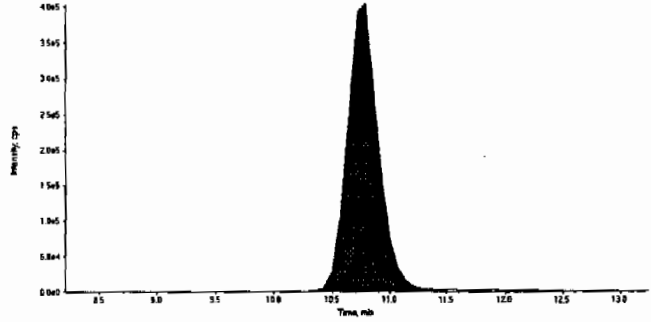
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312024.wiff	<b>Acquisition Date</b>	3/12/2010 6:05:52 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

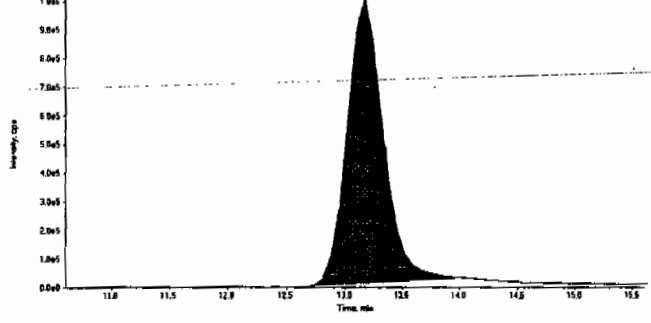
  

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	5.41e+006
	Manual Modification	No
	Amount:	44.9 (ng/mL)
	% Accuracy:	112.00

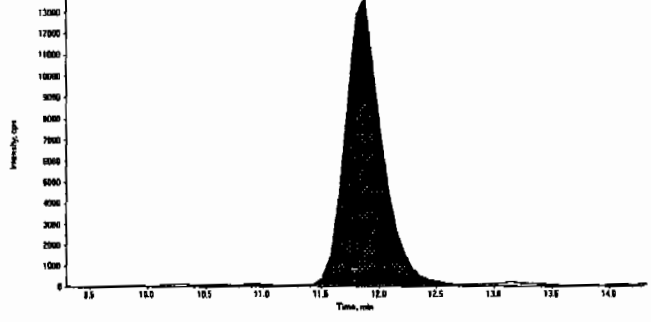
  

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	7.76e+006
	Manual Modification	No
	Amount:	49.7 (ng/mL)
	% Accuracy:	124.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.22e+007
	Manual Modification	No
	Amount:	45.3 (ng/mL)
	% Accuracy:	113.00

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	3.05e+005
	Manual Modification	No
	Amount:	44.5 (ng/mL)
	% Accuracy:	111.00

Before Lar 3/24/10

Sample Name: W0200012.57247 Sample ID: 111571 File: E:\0112224.wif

Peak Name: "24-dichlorobenzene" Method: "MS.D40.0.mn"

Comment: "LUNISEXP\_C" Acquisition: "

Sample Index: 1

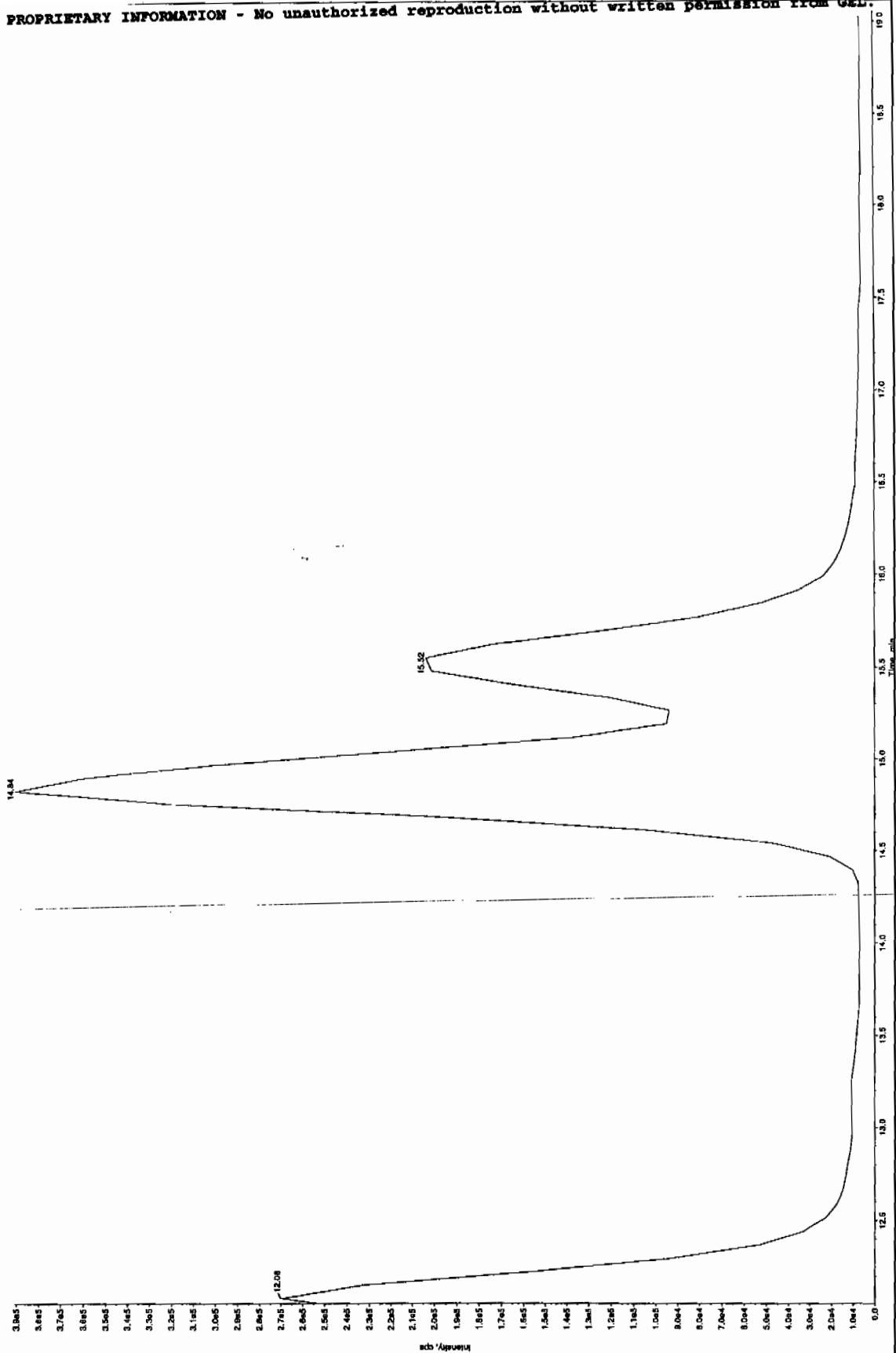
Concentration: 40.0 ng/ml

Calculated Conc: 0.60 ng/ml

Acq. Date: 3/13/2010

Acq. Time: 6:15:12 PM

Modified: 76

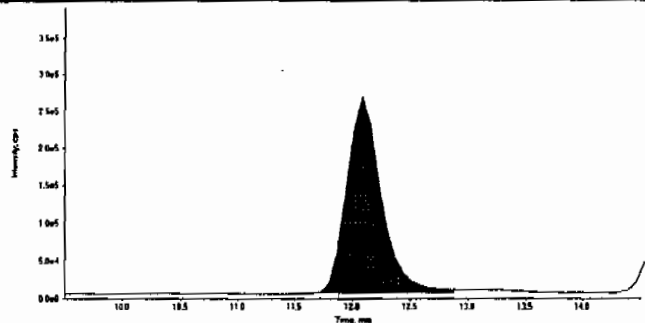


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

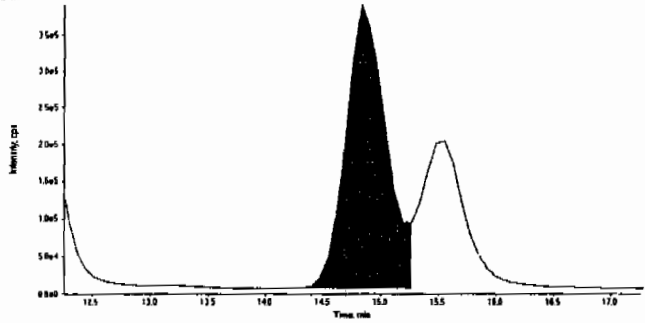
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312024.wiff	<b>Acquisition Date</b>	3/12/2010 6:05:52 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

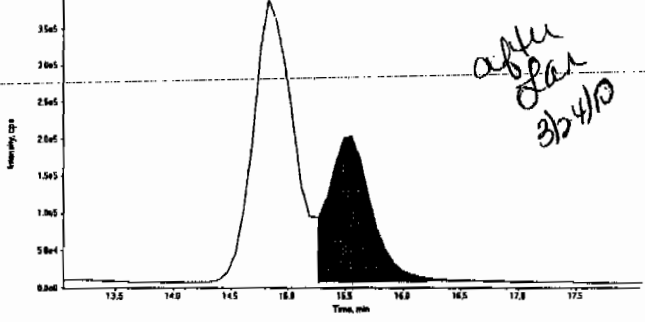
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	5.55e+006
	Manual Modification	No
	Amount:	21.6 (ng/mL)
	% Accuracy:	108.00

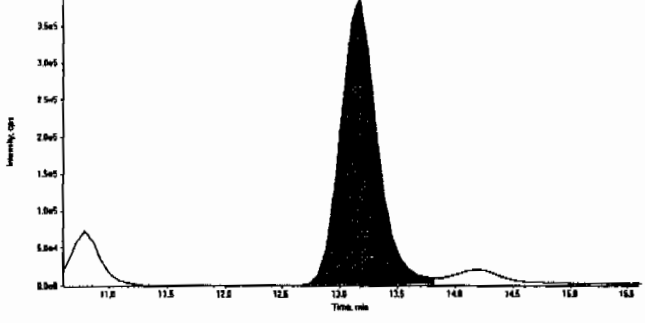
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.8
	Area Counts:	9.51e+006
	Manual Modification	No
	Amount:	33.4 (ng/mL)
	% Accuracy:	83.40

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.5
	Area Counts:	5.15e+006
	Manual Modification	Yes
	Amount:	41.8 (ng/mL)
	% Accuracy:	105.00

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	8.58e+006
	Manual Modification	No
	Amount:	44.1 (ng/mL)
	% Accuracy:	110.00

Before Jan 3/24/10

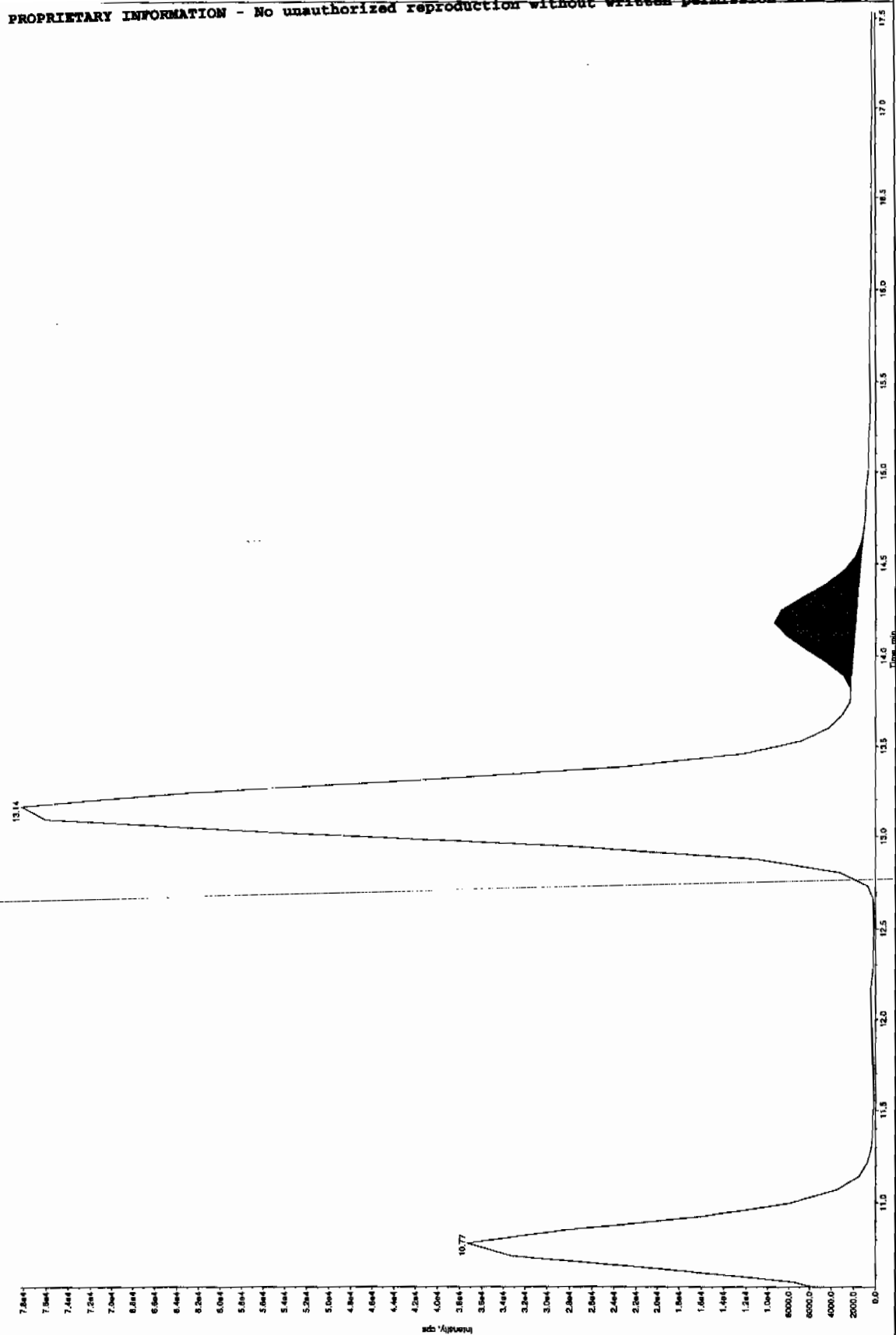
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: W000003125701 Sample ID: 111517 File: EPR012024.wit  
 Comment: LOMSEP\_C Amendment: --

Sample Index: 1 QC  
 Concentration: 40.0 ng/mL  
 Calculated Conc: 26.3 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 8:55:02 PM

Modified: No  
 Free. Algorithm: InertialQuant - IQA  
 Min. Peak Width: 400.0 cps  
 Max. Peak Width: 10.00 sec  
 Smoothing Width: 3.000 points  
 RT Window: 40.0 sec  
 Replicate RT: 1.0 min  
 RT Relative RT: 30

Int. Type: Valley  
 Retention Time: 14.7 min  
 Height: 1.55e+003 cps  
 Start Time: 13.8 min  
 End Time: 14.7 min

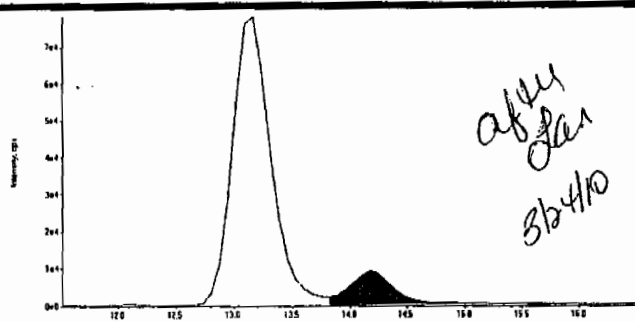


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

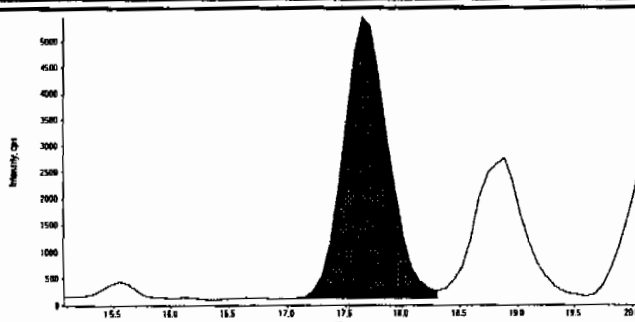
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312024.wiff	<b>Acquisition Date</b>	3/12/2010 6:05:52 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

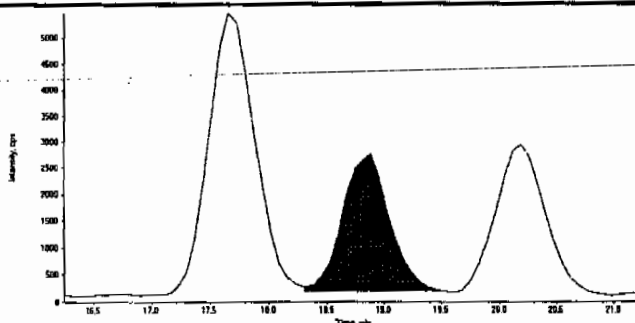
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.2
	Area Counts:	2.52e+005
	Manual Modification	Yes
	Amount:	39.8 (ng/mL)
	% Accuracy:	99.60

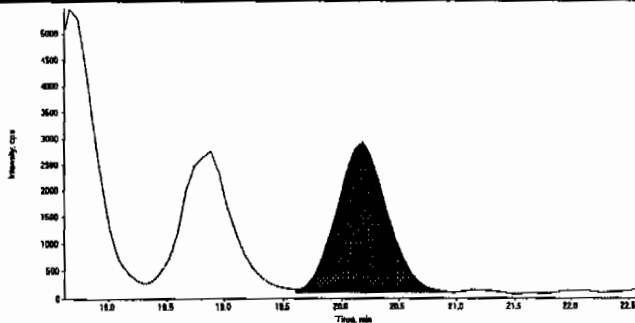
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.48e+005
	Manual Modification	No
	Amount:	41.8 (ng/mL)
	% Accuracy:	105.00

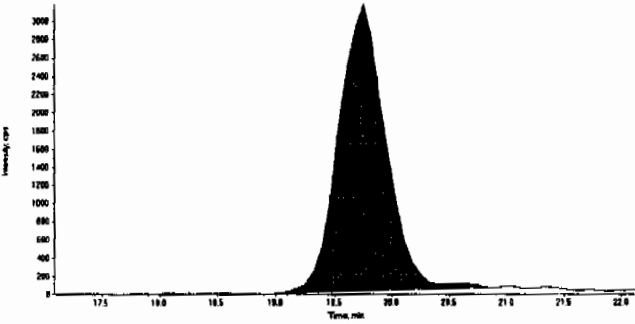
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.9
	Area Counts:	7.41e+004
	Manual Modification	No
	Amount:	38.0 (ng/mL)
	% Accuracy:	95.00

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.2
	Area Counts:	8.69e+004
	Manual Modification	No
	Amount:	40.0 (ng/mL)
	% Accuracy:	100.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312024.wiff	Acquisition Date	3/12/2010 6:05:52 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	9.24e+004
		Manual Modification	No
		Amount:	38.9 (ng/mL)
		% Accuracy:	97.20

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/12/10  
 Time of Injection 1805  
 Standard Number WXX100312-57CRI  
 Data File EXP0312024a

HMX	101.0
RDX	102.0
TNX	102.0
DNX	103.0
MNX	99.4
135-Trinitrobenzene	121.0
13-Dinitrobenzene	112.0
Tetryl	124.0
246-Trinitrotoluene	113.0
Nitrobenzene	111.0
34-dinitrotoluene	108.0
26-dinitrotoluene	83.4
24-dinitrotoluene	105.0
4-Amino-26-dinitrotoluene	110.0
2-Amino-46-dinitrotoluene	99.6
2-Nitrotoluene	105.0
4-Nitrotoluene	95.0
3-Nitrotoluene	100.0
PETN	97.2

TOTAL 1991.6

AVERAGE

104.8	ICV Limits 85-115%
	CRI Limits 70-130%
	CCV Limits 85-115%
No single analyte > +/- 60%	

*Jan*  
*3/24/10*

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312035.wiff

Analysis Date: 12-MAR-10 22:56

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	538	90	
2,4,6-Trinitrotoluene	600	545	91	
2,4-Dinitrotoluene	600	565	94	
2,6-Dinitrotoluene	600	598	100	
2-Amino-4,6-dinitrotoluene	600	626	104	
3,4-Dinitrotoluene	300	276	92	
4-Amino-2,6-dinitrotoluene	600	543	90	
DNX	600	563	94	
HMX	600	501	84	
MNX	600	550	92	
Nitrobenzene	600	626	104	
PETN	600	575	96	
RDX	600	572	95	
TNX	600	562	94	
Tetryl	600	623	104	
m-Dinitrobenzene	600	537	90	
m-Nitrotoluene	600	582	97	
o-Nitrotoluene	600	582	97	
p-Nitrotoluene	600	584	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

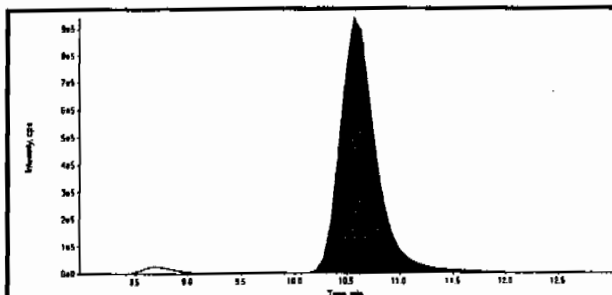
\* Value outside of Recovery Limits



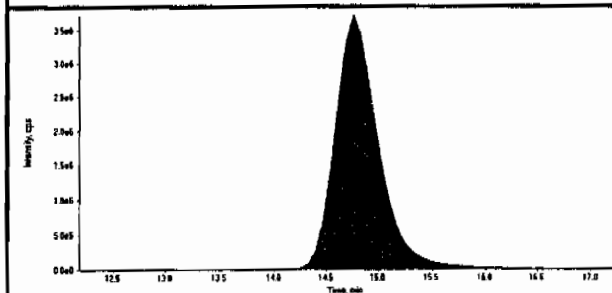
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

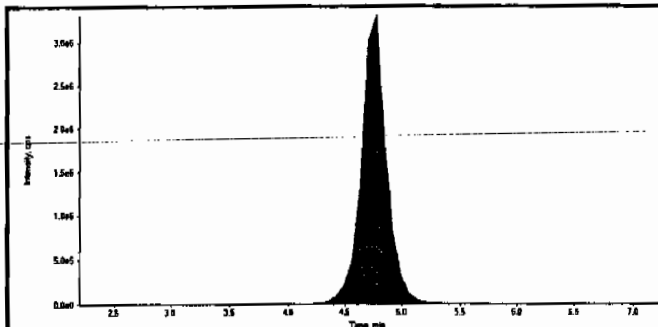
Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



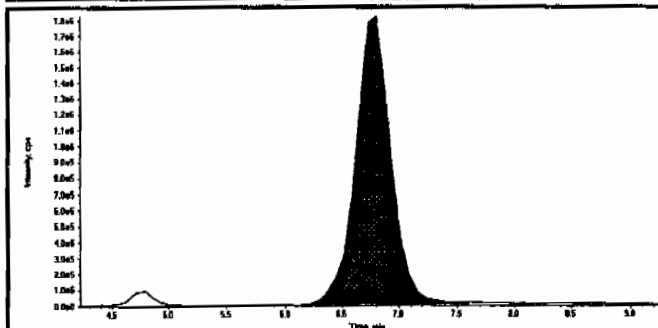
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	106000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	5.07e+007
Manual Modification	No
Amount:	501. (ng/mL)
% Accuracy:	83.50



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.99e+007
Manual Modification	No
Amount:	572. (ng/mL)
% Accuracy:	95.30

*LER*  
*3/24/10*  
*Amw*  
*03/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312035.wiff	<b>Acquisition Date</b>	3/12/2010 10:56:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	4.02e+007
	Manual Modification	No
	Amount:	562. (ng/mL)
	% Accuracy:	93.70

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.59e+007
	Manual Modification	No
	Amount:	563. (ng/mL)
	% Accuracy:	93.80

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.93e+007
	Manual Modification	No
	Amount:	550. (ng/mL)
	% Accuracy:	91.70

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.46e+008
	Manual Modification	No
	Amount:	538. (ng/mL)
	% Accuracy:	89.70

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312035.wiff	<b>Acquisition Date</b>	3/12/2010 10:56:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	6.38e+007
	Manual Modification	No
	Amount:	537. (ng/mL)
	% Accuracy:	89.50

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	9.56e+007
	Manual Modification	No
	Amount:	623. (ng/mL)
	% Accuracy:	104.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.72e+008
	Manual Modification	No
	Amount:	545. (ng/mL)
	% Accuracy:	90.90

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	4.22e+006
	Manual Modification	No
	Amount:	626. (ng/mL)
	% Accuracy:	104.00

Before Jan 3/24/10

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Sample Name: "XX100312-SEC" Sample ID: "118 EF" File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol" Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C" Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""

Sample Index: 1

Sample Name: "XX100312-SEC"

Sample ID: "118 EF"

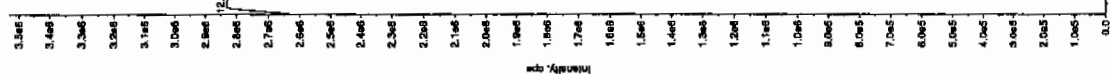
File: "EXP0312033.wif"

Peak Name: "24-dinitrophenol"

Mass(es): "112.0460 amu"

Comment: "LC/MS/MS C"

Acquisition: ""



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312035.wiff	<b>Acquisition Date</b>	3/12/2010 10:56:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	7.24e+007
	Manual Modification	No
	Amount:	276. (ng/mL)
	% Accuracy:	92.10

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	1.03e+008
	Manual Modification	No
	Amount:	598. (ng/mL)
	% Accuracy:	99.60

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	7.07e+007
	Manual Modification	Yes
	Amount:	565. (ng/mL)
	% Accuracy:	94.10

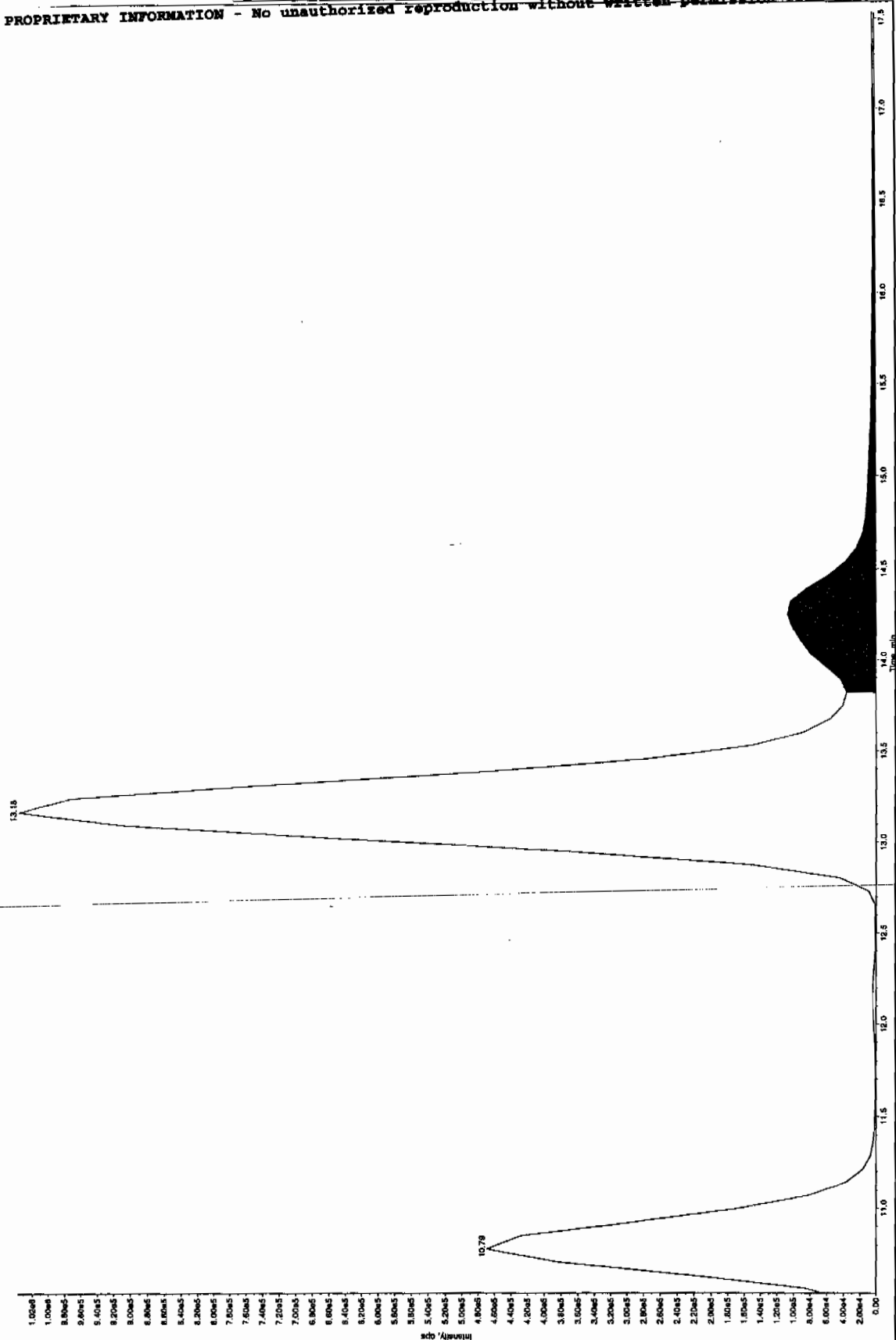
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	1.07e+008
	Manual Modification	No
	Amount:	543. (ng/mL)
	% Accuracy:	90.40

Before Jan 31/10

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Sample Name: WXX10012460V Sample ID: 1181FF File: EXP012013.wif  
Comment: LOMSEXP\_C Amendment: =

Sample Index: 1  
Concentration: 400.00 ng/mL  
Calculated Conc: 1659.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 11:16:18 PM  
Modified: No  
Proc. Algorithm: IntelliScan - TGA  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 60.0 sec  
Expected RT: 14.0 min  
Use Relative RT: No  
Ret. Type: Valley  
Retention Time: 14.3 min  
Start Time: 1.00 min  
End Time: 17.1 min

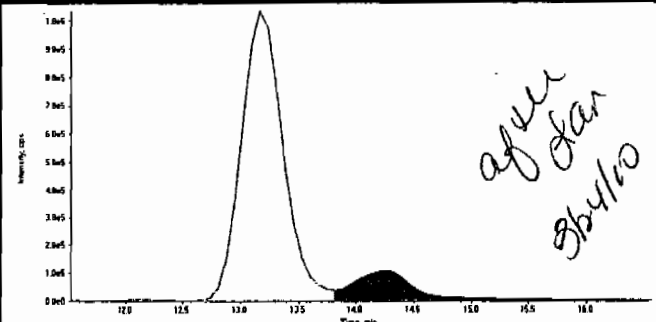


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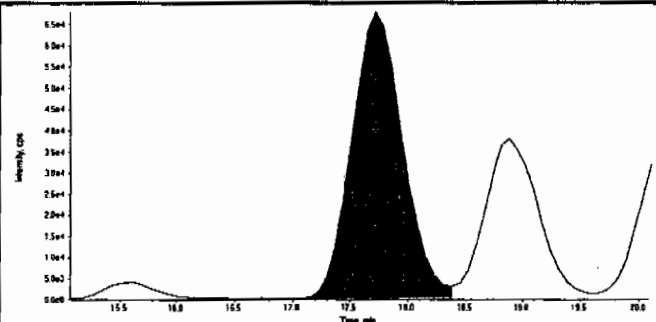
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312035.wiff	<b>Acquisition Date</b>	3/12/2010 10:56:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

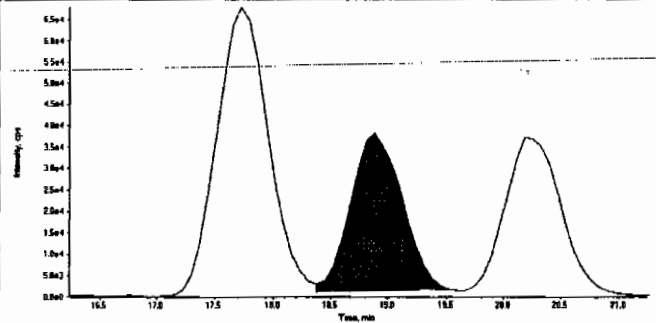
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.3
	<b>Area Counts:</b>	4.02e+006
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	626. (ng/mL)
	<b>% Accuracy:</b>	104.00

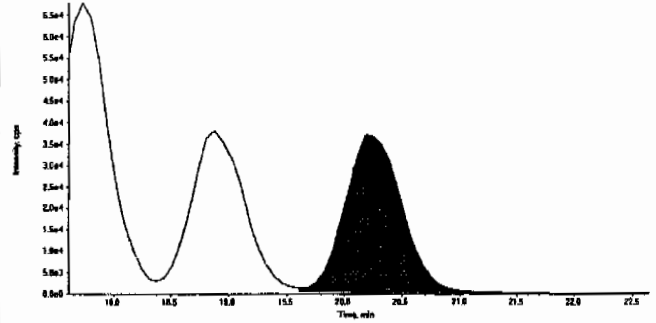
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.7
	<b>Area Counts:</b>	2.10e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	582. (ng/mL)
	<b>% Accuracy:</b>	97.00

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	18.9
	<b>Area Counts:</b>	1.16e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	584. (ng/mL)
	<b>% Accuracy:</b>	97.40

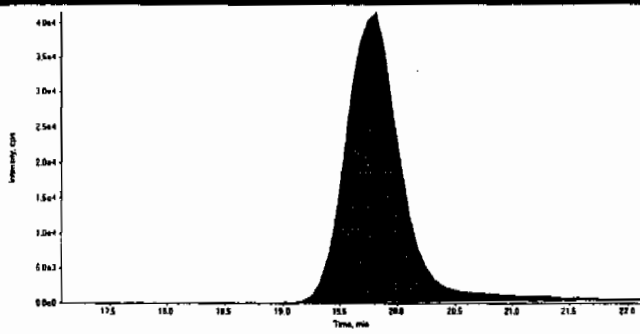
	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.2
	<b>Area Counts:</b>	1.28e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	582. (ng/mL)
	<b>% Accuracy:</b>	97.00

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312035.wiff	Acquisition Date	3/12/2010 10:56:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.8
	Area Counts:	1.39e+006
	Manual Modification	No
	Amount:	575. (ng/mL)
	% Accuracy:	95.90



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/12/10  
 Time of Injection 2256  
 Standard Number WXX100312-56CCV  
 Data File EXP0312035a

HMX	83.5
RDX	95.3
TNX	93.7
DNX	93.8
MNX	91.7
135-Trinitrobenzene	89.7
13-Dinitrobenzene	89.5
Tetryl	104.0
246-Trinitrotoluene	90.9
Nitrobenzene	104.0
34-dinitrotoluene	92.1
26-dinitrotoluene	99.6
24-dinitrotoluene	94.1
4-Amino-26-dinitrotoluene	90.4
2-Amino-46-dinitrotoluene	104.0
2-Nitrotoluene	97.0
4-Nitrotoluene	97.4
3-Nitrotoluene	97.0
PETN	95.9

TOTAL

1803.6

*dmw 03/24/10*

AVERAGE

✓ 94.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*OK*  
*3/24/10*

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312037.wiff

Analysis Date: 12-MAR-10 23:49

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	42.9	107	
2,4,6-Trinitrotoluene	40	48.3	121	
2,4-Dinitrotoluene	40	42.9	107	
2,6-Dinitrotoluene	40	32.3	81	
2-Amino-4,6-dinitrotoluene	40	37.8	94	
3,4-Dinitrotoluene	20	21.9	110	
4-Amino-2,6-dinitrotoluene	40	40.7	102	
DNX	40	37.3	93	
HMX	40	38.4	96	
MNX	40	36.6	92	
Nitrobenzene	40	38.1	95	
PETN	40	34.9	87	
RDX	40	34.7	87	
TNX	40	37	93	
Tetryl	40	47.8	120	
m-Dinitrobenzene	40	41.6	104	
m-Nitrotoluene	40	37.8	95	
o-Nitrotoluene	40	38.5	96	
p-Nitrotoluene	40	37.4	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%

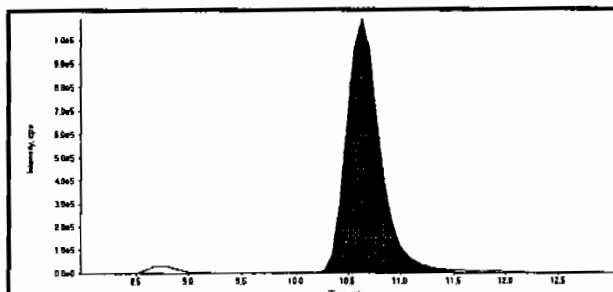
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

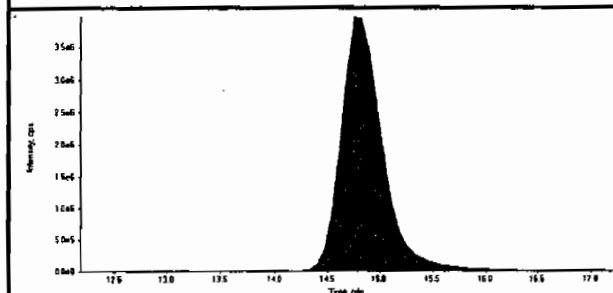
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



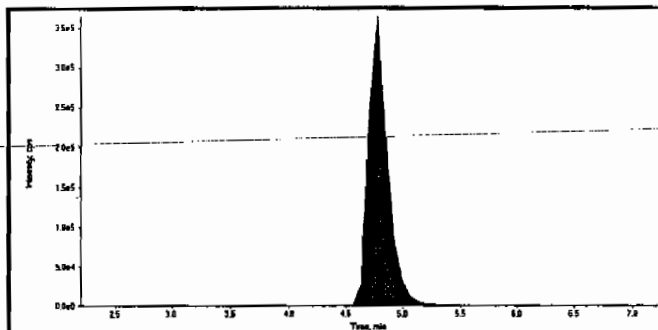
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	24500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

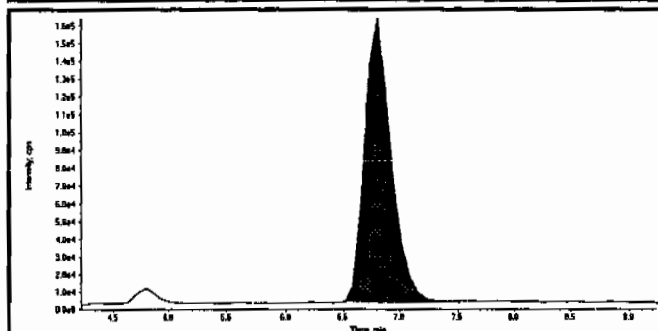


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	110000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.29e+006
Manual Modification	No
Amount:	38.4 (ng/mL)
% Accuracy:	96.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.68e+006
Manual Modification	No
Amount:	34.7 (ng/mL)
% Accuracy:	86.80

*Handwritten signatures and dates:*  
3/24/10  
3/24/10

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312037.wiff	<b>Acquisition Date</b>	3/12/2010 11:49:07 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.92e+006
	Manual Modification	No
	Amount:	37.0 (ng/mL)
	% Accuracy:	92.50

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.62e+006
	Manual Modification	No
	Amount:	37.3 (ng/mL)
	% Accuracy:	93.10

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.42e+006
	Manual Modification	No
	Amount:	36.6 (ng/mL)
	% Accuracy:	91.60

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.28e+007
	Manual Modification	No
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312037.wiff	<b>Acquisition Date</b>	3/12/2010 11:49:07 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	5.45e+006
	Manual Modification	No
	Amount:	41.6 (ng/mL)
	% Accuracy:	104.00

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	8.11e+006
	Manual Modification	No
	Amount:	47.8 (ng/mL)
	% Accuracy:	120.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.50e+007
	Manual Modification	No
	Amount:	48.3 (ng/mL)
	% Accuracy:	121.00

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.83e+005
	Manual Modification	No
	Amount:	38.1 (ng/mL)
	% Accuracy:	95.20

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

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312037.wiff	<b>Acquisition Date</b>	3/12/2010 11:49:07 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.97e+006
	Manual Modification	No
	Amount:	21.9 (ng/mL)
	% Accuracy:	110.00

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	9.85e+006
	Manual Modification	No
	Amount:	32.3 (ng/mL)
	% Accuracy:	80.70

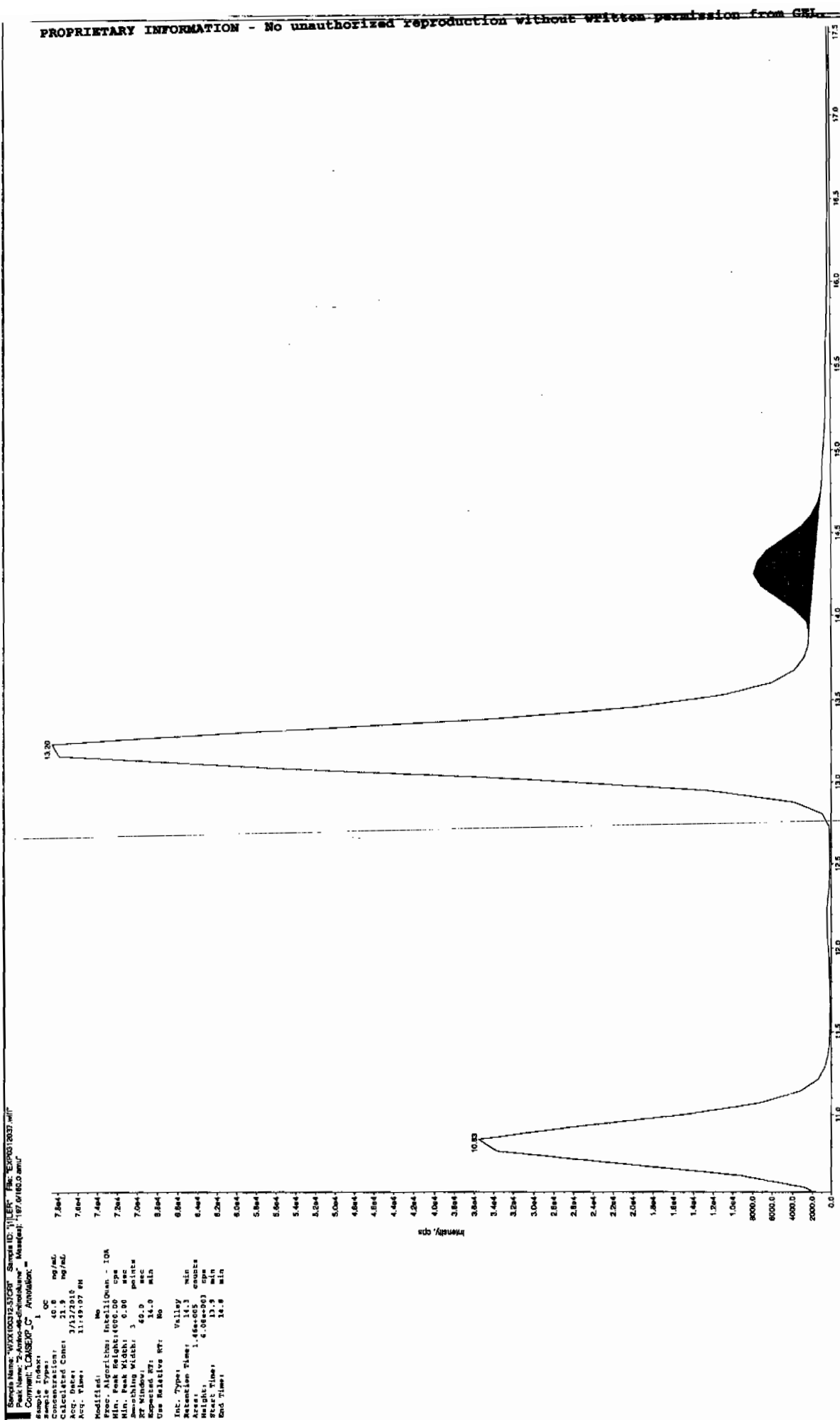
  

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	5.57e+006
	Manual Modification	Yes
	Amount:	42.9 (ng/mL)
	% Accuracy:	107.00

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	8.37e+006
	Manual Modification	No
	Amount:	40.7 (ng/mL)
	% Accuracy:	102.00

Before Jan 31/24/10



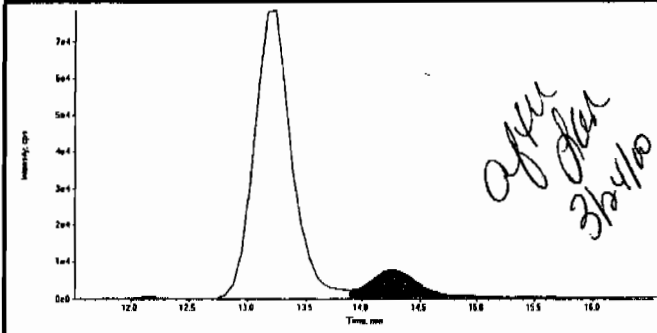


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GEL SOP GL-OA-E-056, Method 8321A-Modified

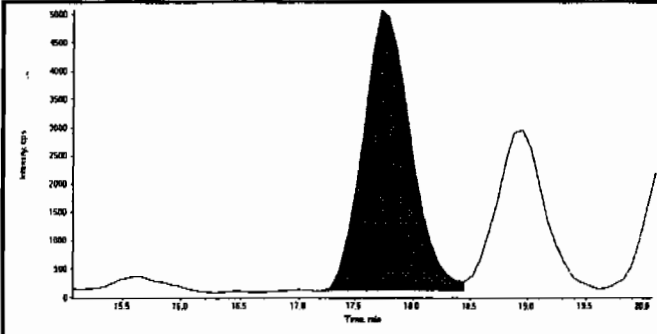
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312037.wiff	<b>Acquisition Date</b>	3/12/2010 11:49:07 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

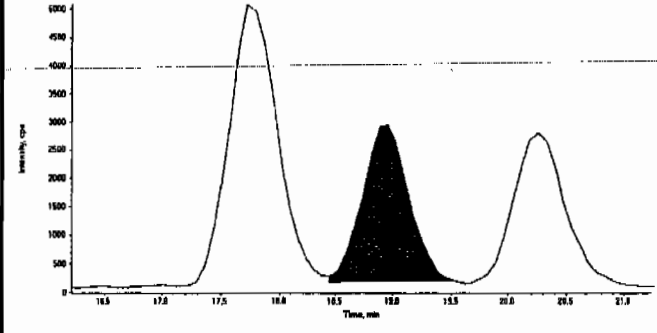
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.3
	<b>Area Counts:</b>	2.52e+005
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	37.8 (ng/mL)
	<b>% Accuracy:</b>	94.40

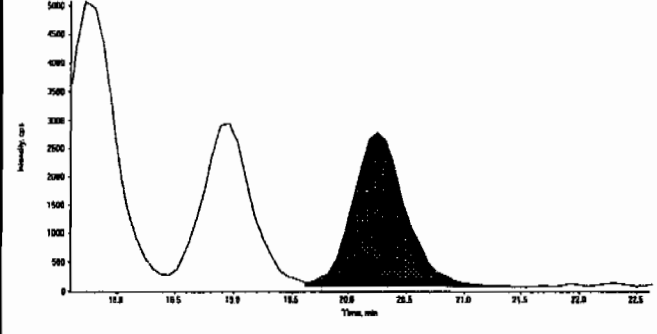
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.7
	<b>Area Counts:</b>	1.44e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	38.5 (ng/mL)
	<b>% Accuracy:</b>	96.20

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	19.0
	<b>Area Counts:</b>	7.69e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	37.4 (ng/mL)
	<b>% Accuracy:</b>	93.50

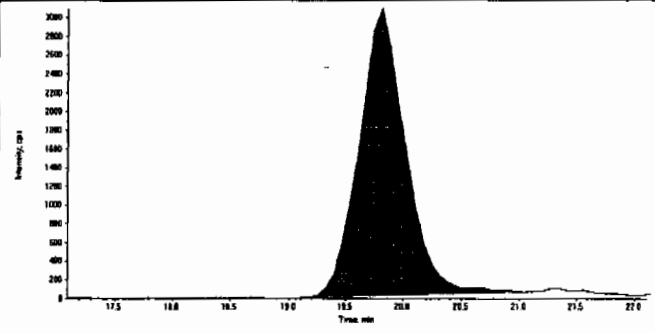
	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.3
	<b>Area Counts:</b>	8.66e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	37.8 (ng/mL)
	<b>% Accuracy:</b>	94.60

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312037.wiff	Acquisition Date	3/12/2010 11:49:07 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.8
	Area Counts:	8.74e+004
	Manual Modification	No
	Amount:	34.9 (ng/mL)
	% Accuracy:	87.10

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/12/10  
 Time of Injection 2349  
 Standard Number WXX100312-57CRI  
 Data File EXP0312037a

HMX	96.0
RDX	86.8
TNX	92.5
DNX	93.1
MNX	91.6
135-Trinitrobenzene	107.0
13-Dinitrobenzene	104.0
Tetryl	120.0
246-Trinitrotoluene	121.0
Nitrobenzene	95.2
34-dinitrotoluene	110.0
26-dinitrotoluene	80.7
24-dinitrotoluene	107.0
4-Amino-26-dinitrotoluene	102.0
2-Amino-46-dinitrotoluene	94.4
2-Nitrotoluene	96.2
4-Nitrotoluene	93.5
3-Nitrotoluene	94.6
PETN	87.1

TOTAL

1872.7

*Ann 03/24/10*

AVERAGE

✓ 98.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*See  
3/24/10*

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312048.wiff

Analysis Date: 13-MAR-10 04:39

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
RDX	600	555	92	
TNX	600	534	89	
Tetryl	600	652	109	
m-Dinitrobenzene	600	562	94	
m-Nitrotoluene	600	572	95	
o-Nitrotoluene	600	582	97	
p-Nitrotoluene	600	596	99	
1,3,5-Trinitrobenzene	600	534	89	
2,4,6-Trinitrotoluene	600	550	92	
2,4-Dinitrotoluene	600	577	96	
2,6-Dinitrotoluene	600	642	107	
2-Amino-4,6-dinitrotoluene	600	623	104	
3,4-Dinitrotoluene	300	304	101	
4-Amino-2,6-dinitrotoluene	600	546	91	
DNX	600	536	89	
HMX	600	463	77	
MXN	600	545	91	
Nitrobenzene	600	617	103	
PETN	600	534	89	

Recovery Limits:

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

Other Target Analytes 80-120%

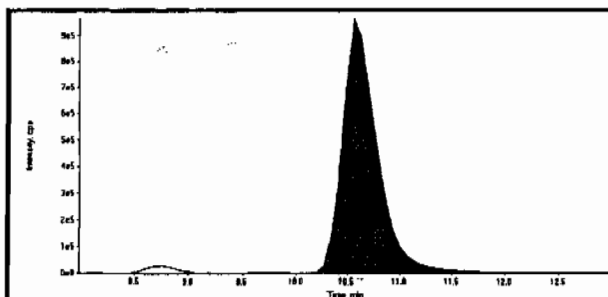
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

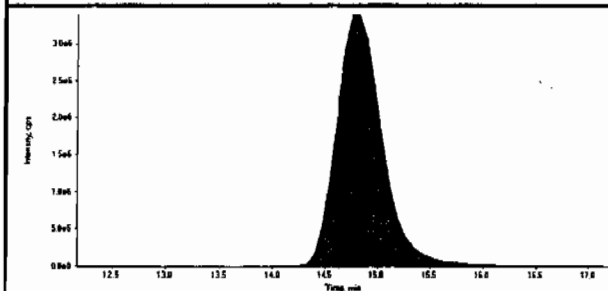
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312048.wiff	Acquisition Date	3/13/2010 4:39:37 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



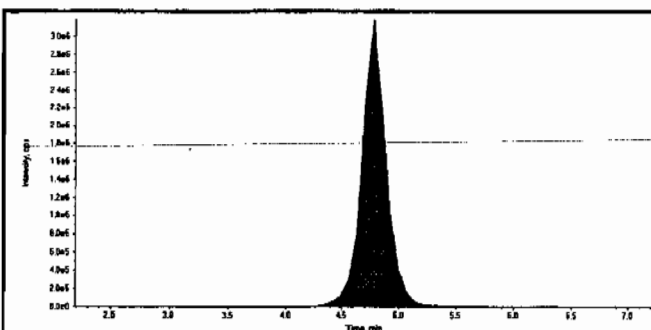
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22300000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

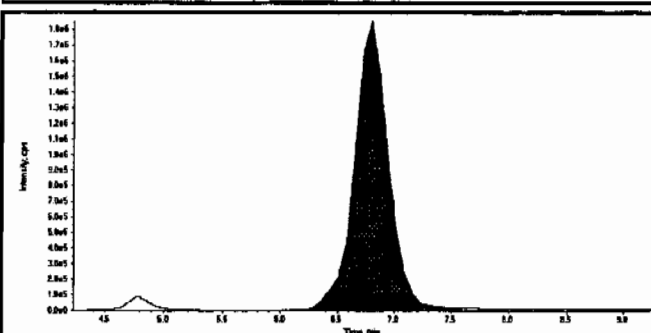


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	105000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.70e+007
Manual Modification	No
Amount:	463. (ng/mL)
% Accuracy:	77.10



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.88e+007
Manual Modification	No
Amount:	555. (ng/mL)
% Accuracy:	92.40

*Handwritten signature and date:*  
03/24/10 LER  
3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312048.wiff	<b>Acquisition Date</b>	3/13/2010 4:39:37 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.83e+007
	Manual Modification	No
	Amount:	534. (ng/mL)
	% Accuracy:	88.90

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.42e+007
	Manual Modification	No
	Amount:	536. (ng/mL)
	% Accuracy:	89.30

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.92e+007
	Manual Modification	No
	Amount:	545. (ng/mL)
	% Accuracy:	90.90

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.45e+008
	Manual Modification	No
	Amount:	534. (ng/mL)
	% Accuracy:	89.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312048.wiff	<b>Acquisition Date</b>	3/13/2010 4:39:37 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	10.8
	<b>Area Counts:</b>	6.69e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	562. (ng/mL)
	<b>% Accuracy:</b>	93.70

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	10.8
	<b>Area Counts:</b>	1.00e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	652. (ng/mL)
	<b>% Accuracy:</b>	109.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	2.69e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	550. (ng/mL)
	<b>% Accuracy:</b>	91.70

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	11.9
	<b>Area Counts:</b>	4.17e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	617. (ng/mL)
	<b>% Accuracy:</b>	103.00

Before Jan 3/24/10

Sample Name: "W0100312.0600" Sample ID: "THER" File: "EXP010214.wif"

Peak Name: "75-dibutylamine" Masses: "182.046.0 amu"

Comment: "LARGE" C. Acquisition: "1"

Sample Type: "QC"

Concentration: 600. ng/mL

Calculated Conc: 331. ng/mL

Acq. Time: 412.117 AX

Modified: No

Acquisition: Inclusion - IQA

Min. Peak Width: 0.10 sec

Smoothing Width: 3 points

RT Window: 60.0 sec

Integration: 1.00 min

Use Relative RT: No

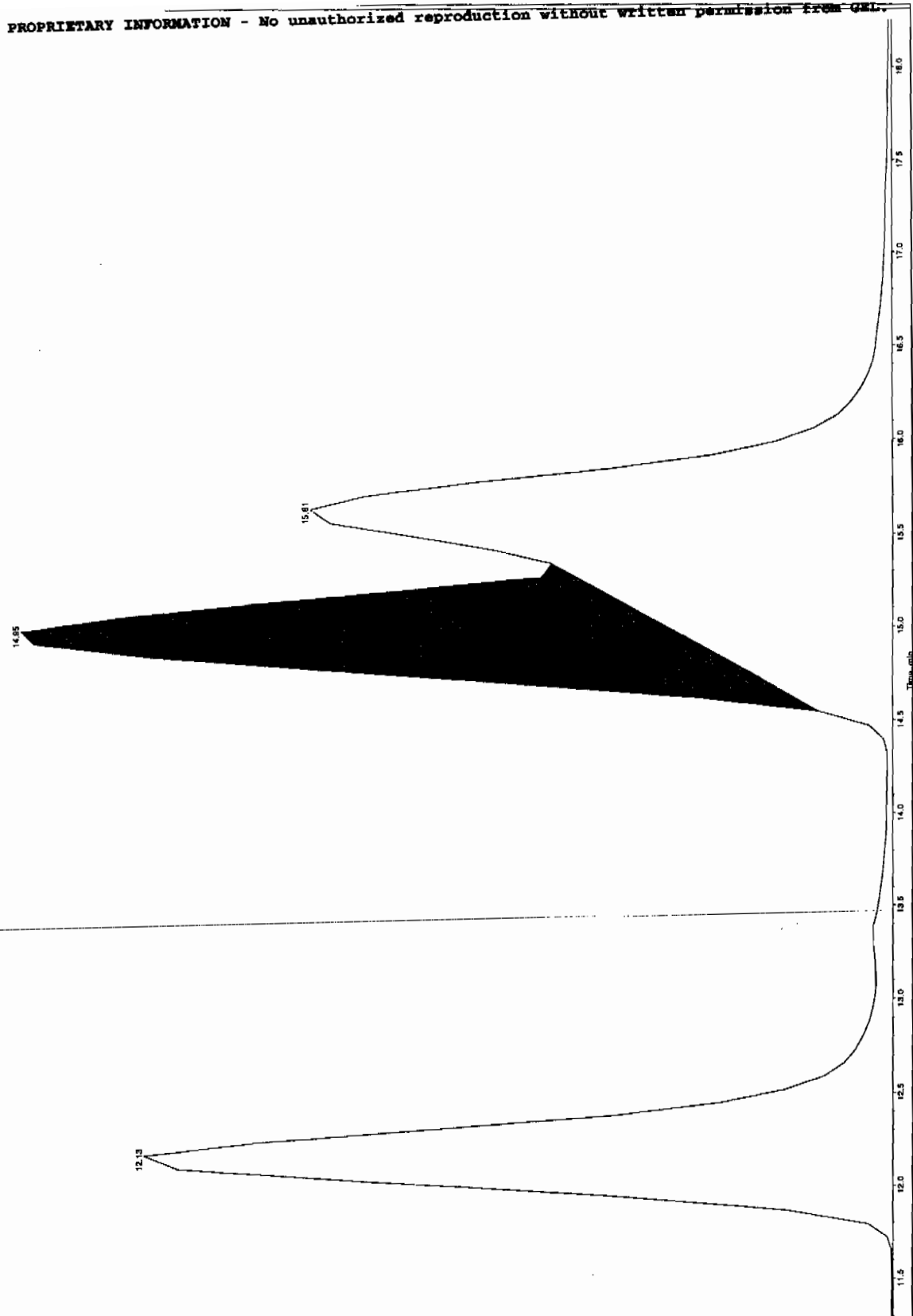
Int. Type: Valley

Retention Time: 14.5 min

Height: 2.70e+05 cps

Start Time: 14.5 min

End Time: 15.3 min





Before Jan 3/24/10

Sample Name: "WAX100125020V" Sample ID: "1125020V" File: "E:\XRD\100125020V"

Peak Name: "24-dimethylsilane" Mass(es): "182.0962 amu"

Comment: "LONGBERT" Acquisition: "

Sample Index: 1

QC: 609

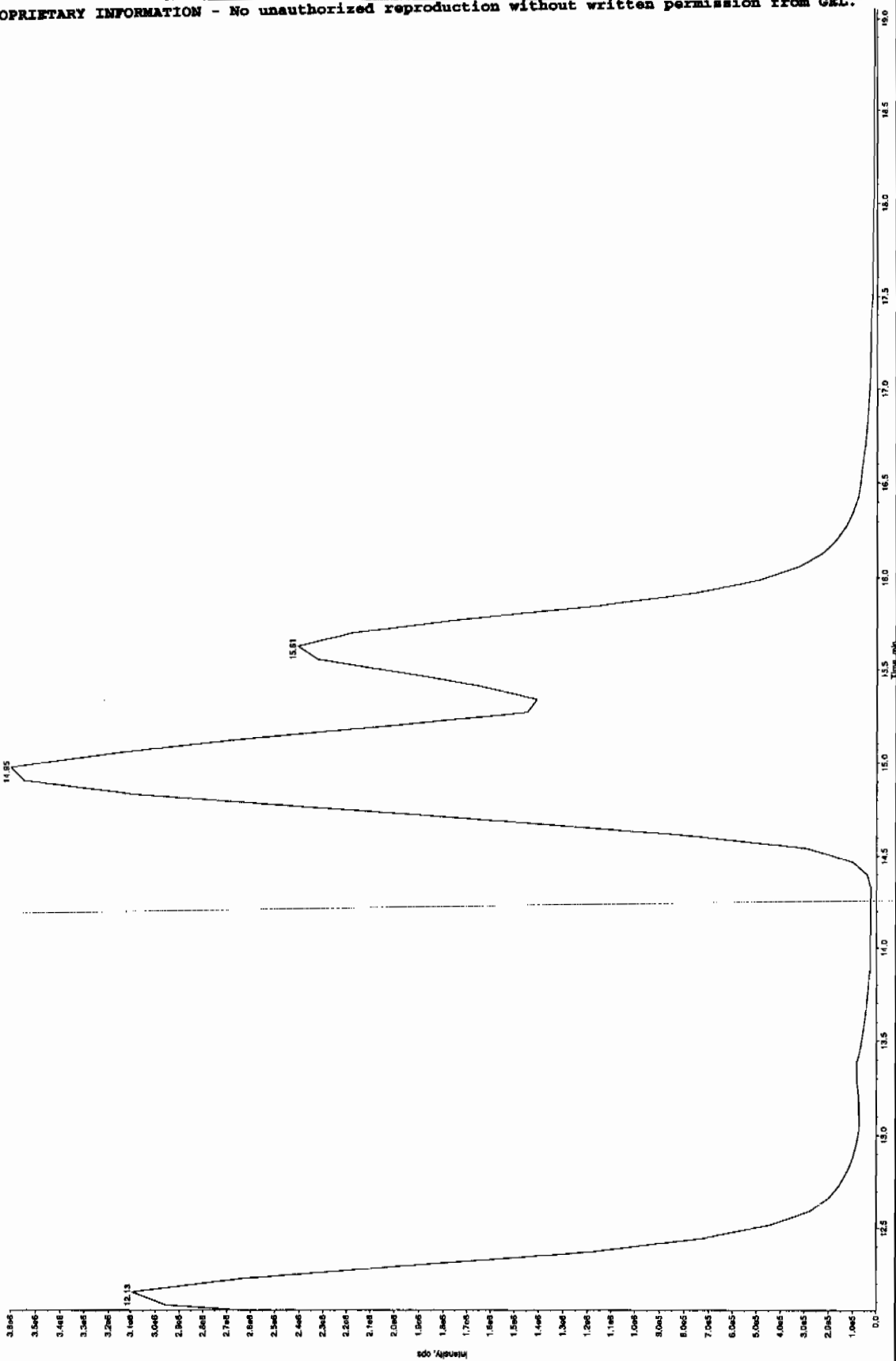
Concentration: 0.00 ng/mL

Calculated Conc: 3.1377010 ng/mL

Acq. Date: 3/13/2010

Acq. Time: 4:15:17 AM

Modified: No



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312048.wiff	<b>Acquisition Date</b>	3/13/2010 4:39:37 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	7.84e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	304. (ng/mL)
	<b>% Accuracy:</b>	101.00

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	14.9
	<b>Area Counts:</b>	1.09e+008
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	642. (ng/mL)
	<b>% Accuracy:</b>	107.00

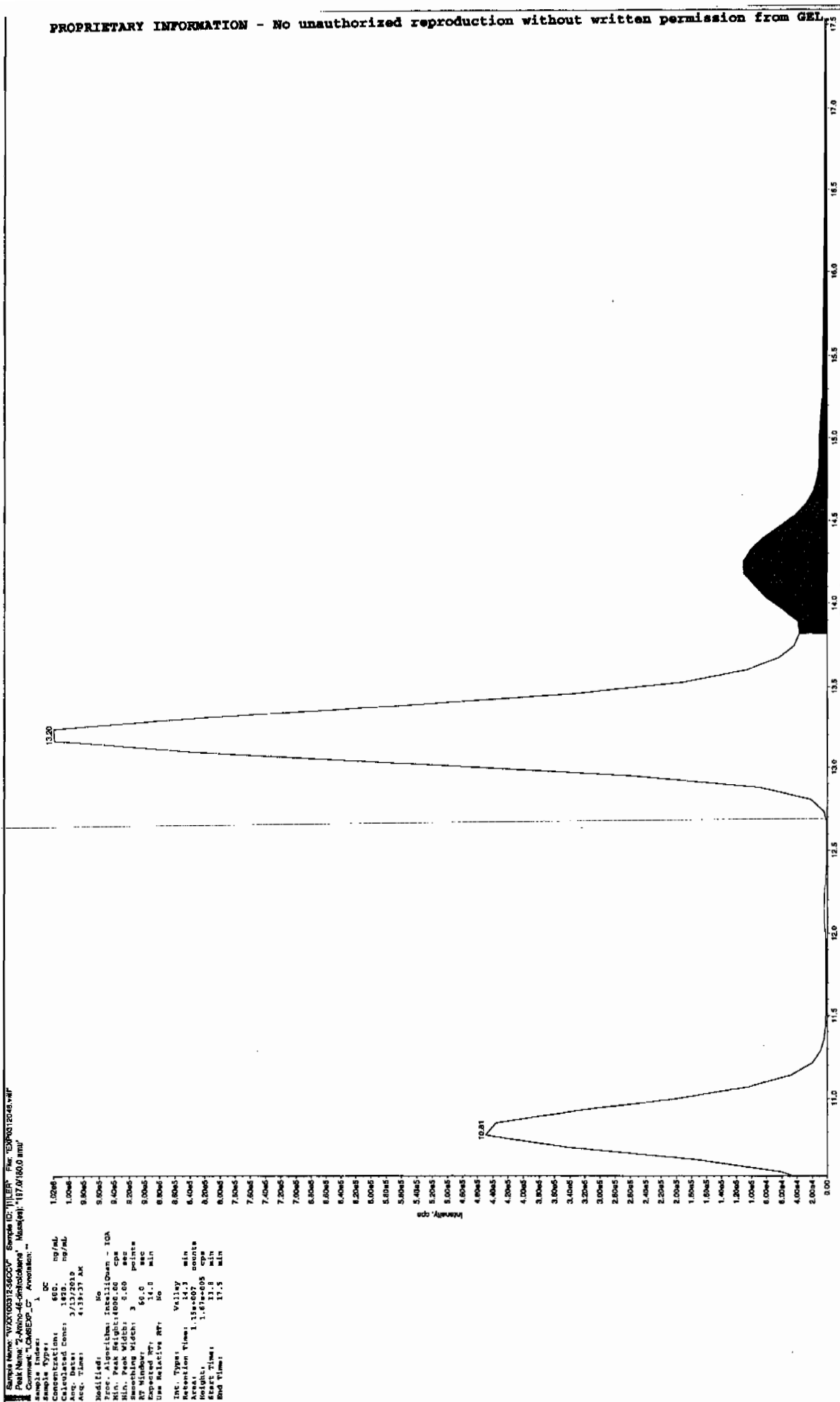
  

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.6
	<b>Area Counts:</b>	7.10e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	577. (ng/mL)
	<b>% Accuracy:</b>	96.20

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	1.06e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	546. (ng/mL)
	<b>% Accuracy:</b>	91.00

Before Jan 3/24/10

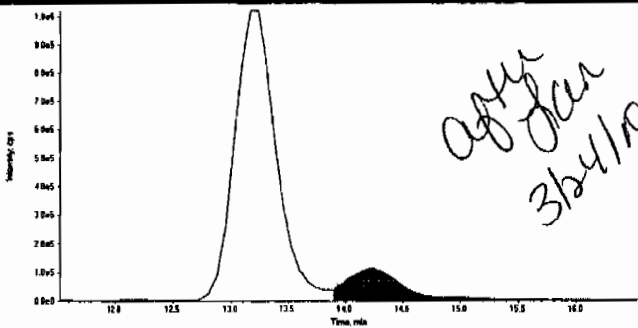


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

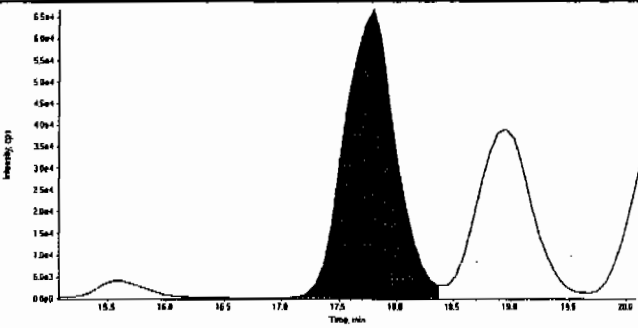
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312048.wiff	<b>Acquisition Date</b>	3/13/2010 4:39:37 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

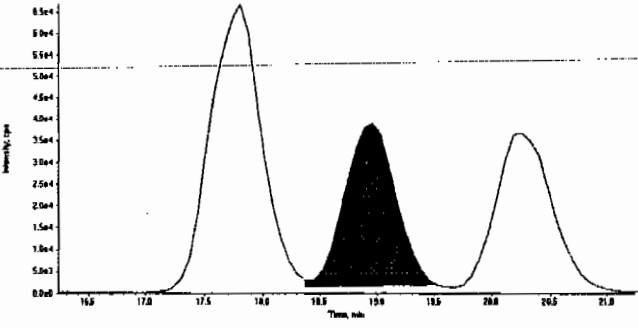
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.2
	Area Counts:	3.93e+006
	Manual Modification	Yes
	Amount:	623. (ng/mL)
	% Accuracy:	104.00

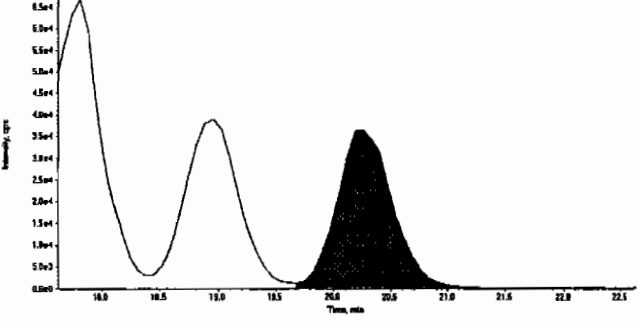
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	2.06e+006
	Manual Modification	No
	Amount:	582. (ng/mL)
	% Accuracy:	97.00

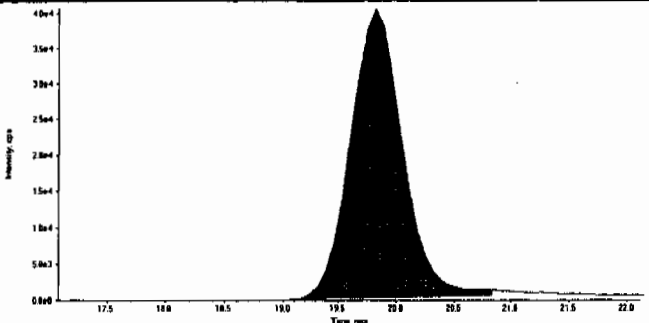
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	1.16e+006
	Manual Modification	No
	Amount:	596. (ng/mL)
	% Accuracy:	99.40

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	1.24e+006
	Manual Modification	No
	Amount:	572. (ng/mL)
	% Accuracy:	95.30

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312048.wiff	<b>Acquisition Date</b>	3/13/2010 4:39:37 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	19.8
		<b>Area Counts:</b>	1.27e+006
		<b>Manual Modification</b>	No
		<b>Amount:</b>	534. (ng/mL)
		<b>% Accuracy:</b>	89.00

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 0439  
 Standard Number WXX100312-56CCV  
 Data File EXP0312048a

HMX	77.1	
RDX	92.4	
TNX	88.9	
DNX	89.3	
MNX	90.9	
135-Trinitrobenzene	89.0	
13-Dinitrobenzene	93.7	
Tetryl	109.0	
246-Trinitrotoluene	91.7	
Nitrobenzene	103.0	
34-dinitrotoluene	101.0	
26-dinitrotoluene	107.0	
24-dinitrotoluene	96.2	
4-Amino-26-dinitrotoluene	91.0	
2-Amino-46-dinitrotoluene	104.0	
2-Nitrotoluene	97.0	
4-Nitrotoluene	99.4	
3-Nitrotoluene	95.3	
PETN	89.0	
		✓
TOTAL	1804.9	<i>Hmx 03/24/10</i>
		ICV Limits 85-115%
AVERAGE	✓ 95.0	CRI Limits 70-130%
		CCV Limits 85-115%
No single analyte > +/- 60%		

*Jan  
3/24/10*

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312050.wiff

Analysis Date: 13-MAR-10 05:32

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	40	33.4	83	
3,4-Dinitrotoluene	20	22.5	113	
4-Amino-2,6-dinitrotoluene	40	44.9	112	
DNX	40	39.6	99	
HMX	40	40.9	102	
MNX	40	37.8	95	
Nitrobenzene	40	41.2	103	
PETN	40	39.7	99	
RDX	40	41.3	103	
TNX	40	37.9	95	
Tetryl	40	50.5	126	
m-Dinitrobenzene	40	43.2	108	
m-Nitrotoluene	40	42	105	
o-Nitrotoluene	40	42.8	107	
p-Nitrotoluene	40	38.8	97	
1,3,5-Trinitrobenzene	40	45.7	114	
2,4,6-Trinitrotoluene	40	47.8	119	
2,4-Dinitrotoluene	40	41.4	103	
2,6-Dinitrotoluene	40	28.8	72	

Recovery Limits:

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

Other Target Analytes 70-130%

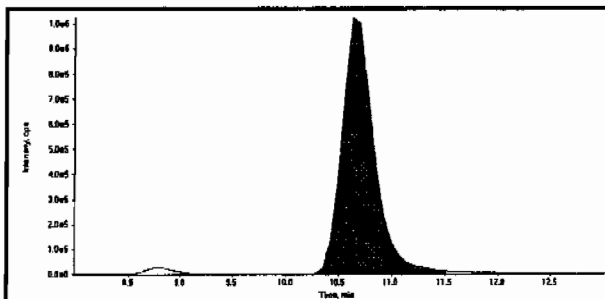
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

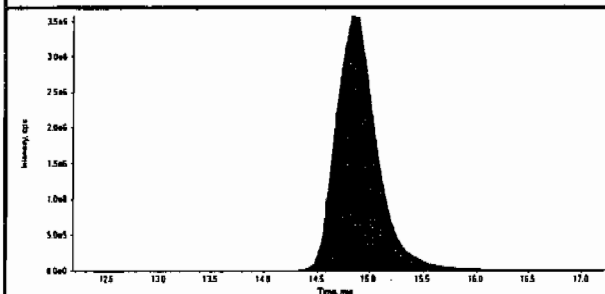
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

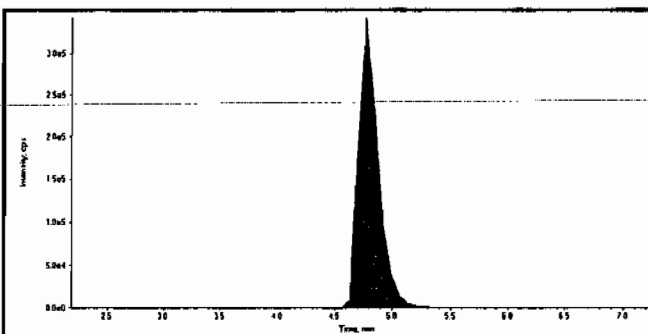
Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



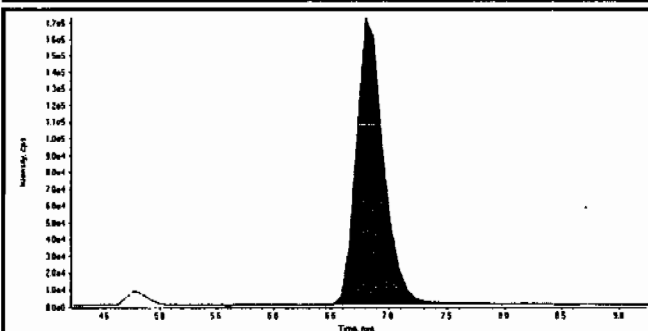
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	22100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	98200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.12e+006
Manual Modification	No
Amount:	40.9 (ng/mL)
% Accuracy:	102.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.87e+006
Manual Modification	No
Amount:	41.3 (ng/mL)
% Accuracy:	103.00

*Handwritten:*  
4/11/10  
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2/24/10



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312050.wiff	<b>Acquisition Date</b>	3/13/2010 5:32:21 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.14
	Area Counts:	2.70e+006
	Manual Modification	No
	Amount:	37.9 (ng/mL)
	% Accuracy:	94.90

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.51e+006
	Manual Modification	No
	Amount:	39.6 (ng/mL)
	% Accuracy:	99.10

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.32e+006
	Manual Modification	No
	Amount:	37.8 (ng/mL)
	% Accuracy:	94.50

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.23e+007
	Manual Modification	No
	Amount:	45.7 (ng/mL)
	% Accuracy:	114.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312050.wiff	<b>Acquisition Date</b>	3/13/2010 5:32:21 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	10.8
	<b>Area Counts:</b>	5.09e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	43.2 (ng/mL)
	<b>% Accuracy:</b>	108.00

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	10.9
	<b>Area Counts:</b>	7.70e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	50.5 (ng/mL)
	<b>% Accuracy:</b>	126.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	2.20e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	47.8 (ng/mL)
	<b>% Accuracy:</b>	119.00

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	11.9
	<b>Area Counts:</b>	2.76e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	41.2 (ng/mL)
	<b>% Accuracy:</b>	103.00

Before Ser 32416

Sample Name: WV0001037001 Sample ID: 711671 File: EXP031050.d

Peak Name: 24-decibromane\* Mass(es): 182.0440 amu

Comment: LOMSEP\_C\* Acquisition: --

Sample Index: 1

Sample Type: 40 GC

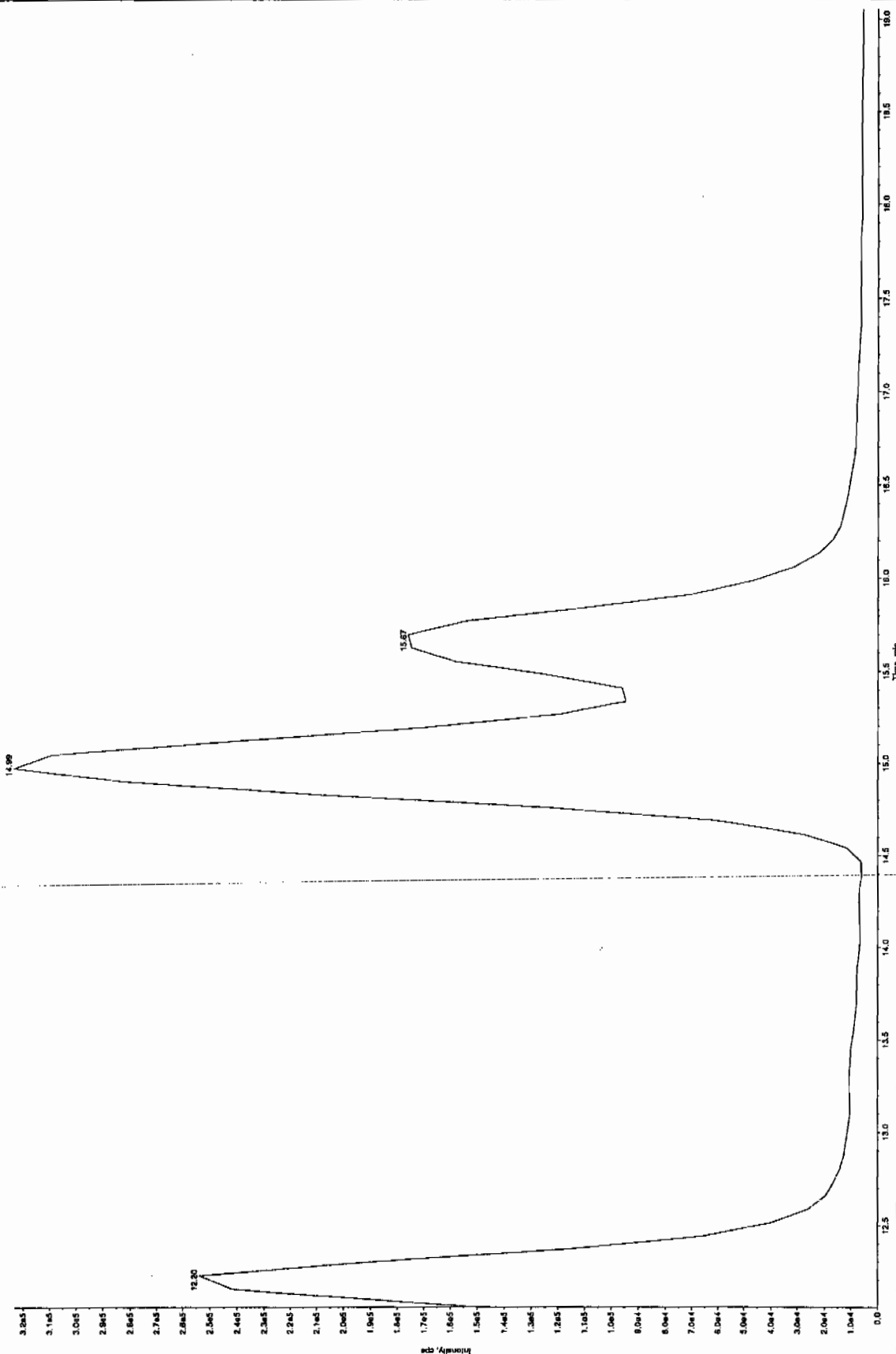
Sample Volume: 0.00 µL

Calculated Conc: 3/13/2010

Lab. Recn: 5:11:21 AM

Acq. Time: 5:11:21 AM

Modified: --



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312050.wiff	<b>Acquisition Date</b>	3/13/2010 5:32:21 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	5.45e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	22.5 (ng/mL)
	<b>% Accuracy:</b>	113.00

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	15.0
	<b>Area Counts:</b>	8.23e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	28.8 (ng/mL)
	<b>% Accuracy:</b>	71.90

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.7
	<b>Area Counts:</b>	4.78e+006
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	41.4 (ng/mL)
	<b>% Accuracy:</b>	103.00

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	8.22e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	44.9 (ng/mL)
	<b>% Accuracy:</b>	112.00

Before Scan 312410

Sample Name: "NUTRITION" Sample ID: "NUTR" File: "NUTR1355.wif"  
 Peak Name: "NUTR" Mass: "187.07100 amu" Masses: "187.07100 amu"

Comment: "LOUSEP" Annotation: "

Sample Index: 1

Sample Type: GC

Sample Concentration: 40.0 ng/mL

Sample Concentration: 32.2 ng/mL

Sample Date: 1/13/2010

Sample Time: 5:22:11 AM

Sample Name: "NUTR"

Sample Mass: "187.07100 amu"

Sample Masses: "187.07100 amu"

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Intensity, cps

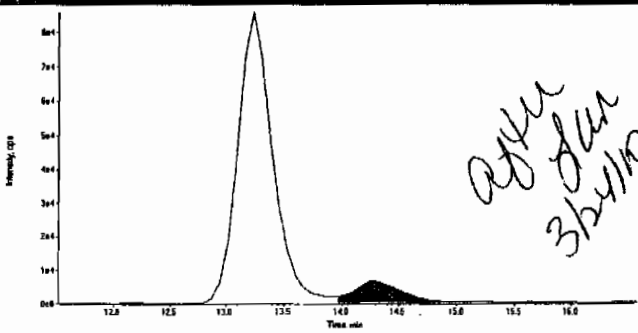
Time, min

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

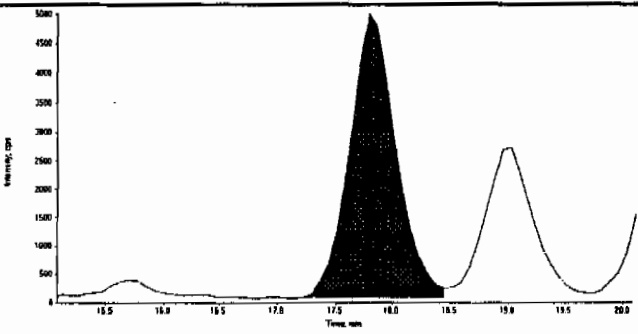
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312050.wiff	<b>Acquisition Date</b>	3/13/2010 5:32:21 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

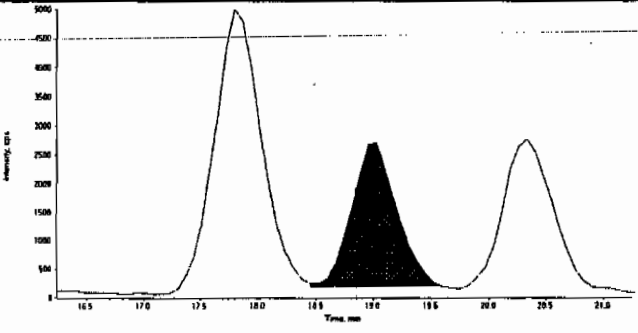
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	1.98e+005
	Manual Modification	Yes
	Amount:	33.4 (ng/mL)
	% Accuracy:	83.40

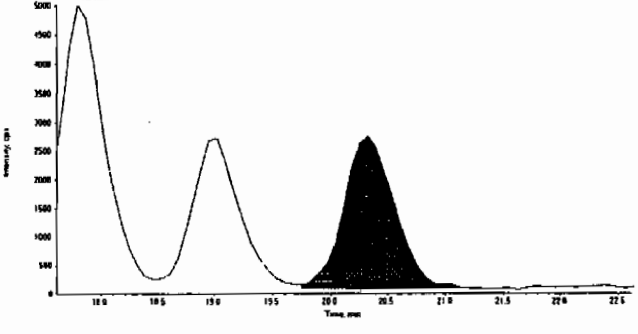
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	1.42e+005
	Manual Modification	No
	Amount:	42.8 (ng/mL)
	% Accuracy:	107.00

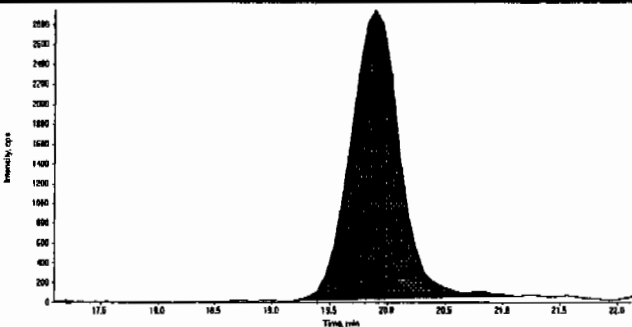
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	7.10e+004
	Manual Modification	No
	Amount:	38.8 (ng/mL)
	% Accuracy:	96.90

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	8.56e+004
	Manual Modification	No
	Amount:	42.0 (ng/mL)
	% Accuracy:	105.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312050.wiff	Acquisition Date	3/13/2010 5:32:21 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	8.86e+004
		Manual Modification	No
		Amount:	39.7 (ng/mL)
		% Accuracy:	99.20

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 0532  
 Standard Number WXX100312-57CRI  
 Data File EXP0312050a

HMX	102.0
RDX	103.0
TNX	94.9
DNX	99.1
MNX	94.5
135-Trinitrobenzene	114.0
13-Dinitrobenzene	108.0
Tetryl	126.0
246-Trinitrotoluene	119.0
Nitrobenzene	103.0
34-dinitrotoluene	113.0
26-dinitrotoluene	71.9
24-dinitrotoluene	103.0
4-Amino-26-dinitrotoluene	112.0
2-Amino-46-dinitrotoluene	83.4
2-Nitrotoluene	107.0
4-Nitrotoluene	96.9
3-Nitrotoluene	105.0
PETN	99.2

TOTAL

1954.9

*47116 03/24/10*

AVERAGE

✓ 102.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Jan  
3/24/10*



7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312061.wiff

Analysis Date: 13-MAR-10 10:22

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	551	92	
2,4,6-Trinitrotoluene	600	555	92	
2,4-Dinitrotoluene	600	577	96	
2,6-Dinitrotoluene	600	622	104	
2-Amino-4,6-dinitrotoluene	600	693	116	
3,4-Dinitrotoluene	300	285	95	
4-Amino-2,6-dinitrotoluene	600	587	98	
DNX	600	561	94	
HMX	600	531	89	
MX	600	600	100	
Nitrobenzene	600	611	102	
PETN	600	585	98	
RDX	600	592	99	
TNX	600	583	97	
Tetryl	600	684	114	
m-Dinitrobenzene	600	552	92	
m-Nitrotoluene	600	595	99	
o-Nitrotoluene	600	603	100	
p-Nitrotoluene	600	586	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%

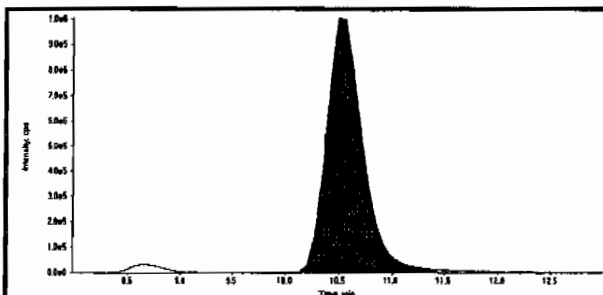
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

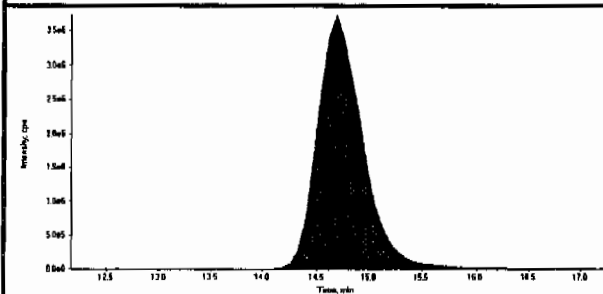
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



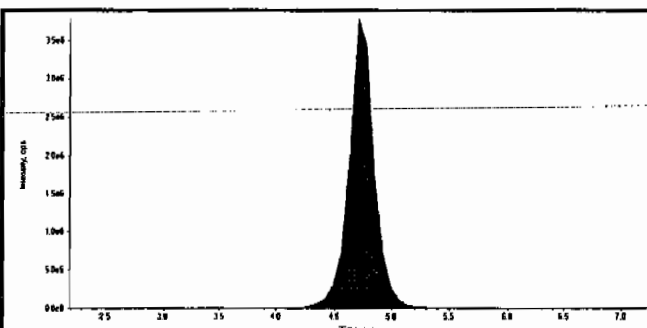
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.50
Area Counts:	24100000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

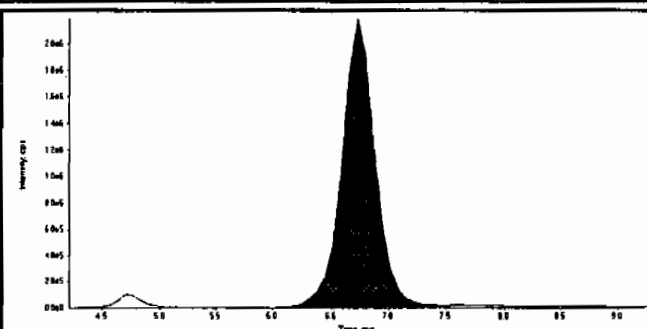


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.70
Area Counts:	111000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.70
Area Counts:	5.84e+007
Manual Modification	No
Amount:	531. (ng/mL)
% Accuracy:	88.50



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.73
Area Counts:	4.49e+007
Manual Modification	No
Amount:	592. (ng/mL)
% Accuracy:	98.70

*Handwritten:* done 03/24/10

*Handwritten:* LER 3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312061.wiff	<b>Acquisition Date</b>	3/13/2010 10:22:56 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	4.53e+007
	Manual Modification	No
	Amount:	583. (ng/mL)
	% Accuracy:	97.10

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.35
	Area Counts:	3.88e+007
	Manual Modification	No
	Amount:	561. (ng/mL)
	% Accuracy:	93.60

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	2.29e+007
	Manual Modification	No
	Amount:	600. (ng/mL)
	% Accuracy:	99.90

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	8.97
	Area Counts:	1.62e+008
	Manual Modification	No
	Amount:	551. (ng/mL)
	% Accuracy:	91.90

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312061.wiff	<b>Acquisition Date</b>	3/13/2010 10:22:56 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.6
	Area Counts:	7.12e+007
	Manual Modification	No
	Amount:	552. (ng/mL)
	% Accuracy:	92.00

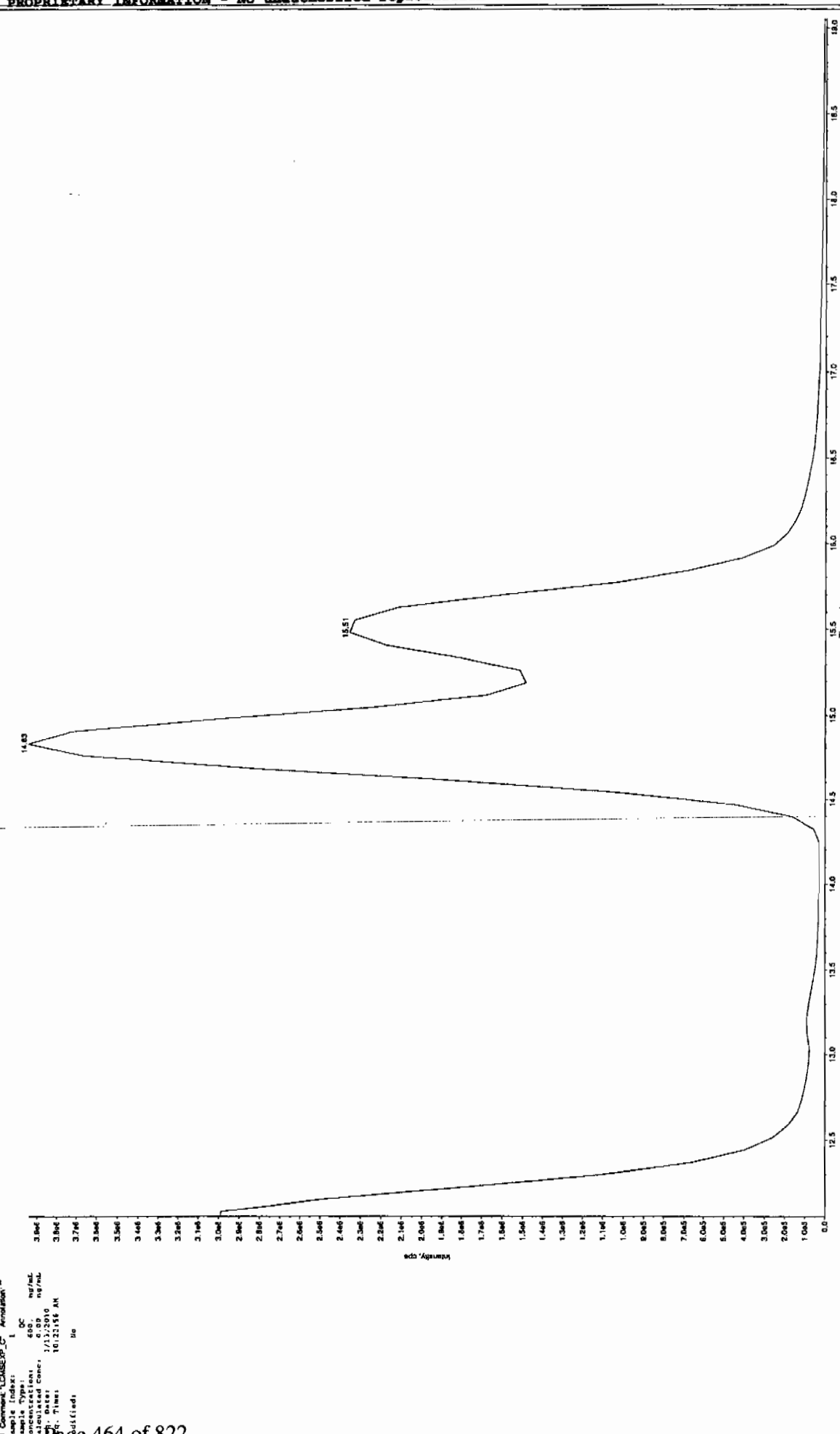
	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.7
	Area Counts:	1.14e+008
	Manual Modification	No
	Amount:	684. (ng/mL)
	% Accuracy:	114.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.89e+008
	Manual Modification	No
	Amount:	555. (ng/mL)
	% Accuracy:	92.40

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.8
	Area Counts:	4.47e+006
	Manual Modification	No
	Amount:	611. (ng/mL)
	% Accuracy:	102.00



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312061.wiff	<b>Acquisition Date</b>	3/13/2010 10:22:56 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.0
	<b>Area Counts:</b>	7.80e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	285. (ng/mL)
	<b>% Accuracy:</b>	94.90

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	14.8
	<b>Area Counts:</b>	1.12e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	622. (ng/mL)
	<b>% Accuracy:</b>	104.00

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.5
	<b>Area Counts:</b>	7.55e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	577. (ng/mL)
	<b>% Accuracy:</b>	96.10

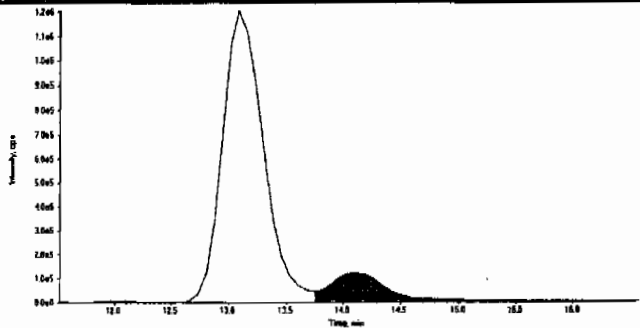
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.1
	<b>Area Counts:</b>	1.22e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	587. (ng/mL)
	<b>% Accuracy:</b>	97.80

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

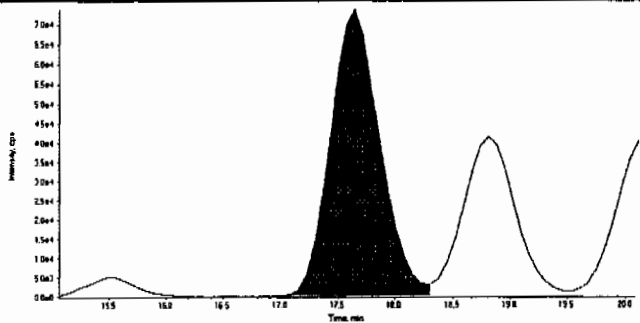
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312061.wiff	<b>Acquisition Date</b>	3/13/2010 10:22:56 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

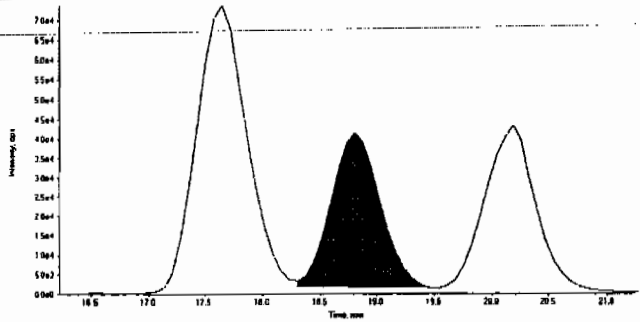
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.1
	<b>Area Counts:</b>	4.66e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	693. (ng/mL)
	<b>% Accuracy:</b>	116.00

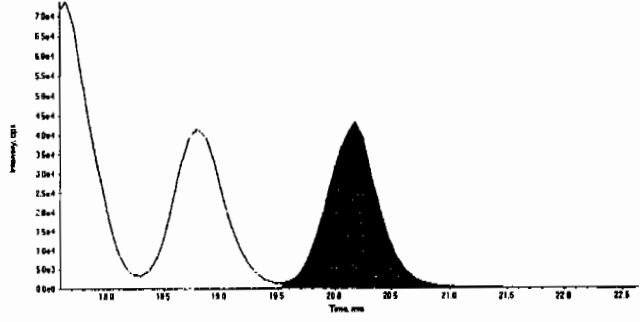
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.7
	<b>Area Counts:</b>	2.27e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	603. (ng/mL)
	<b>% Accuracy:</b>	100.00

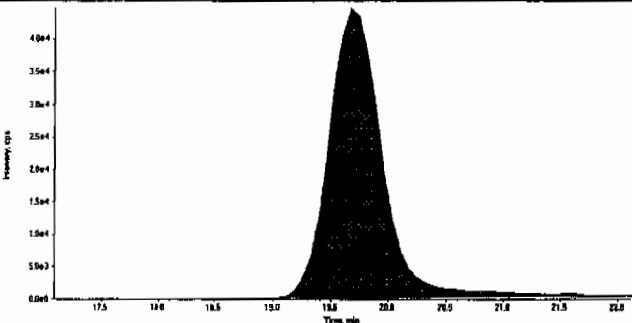
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	18.8
	<b>Area Counts:</b>	1.22e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	586. (ng/mL)
	<b>% Accuracy:</b>	97.70

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.2
	<b>Area Counts:</b>	1.37e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	595. (ng/mL)
	<b>% Accuracy:</b>	99.10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312061.wiff	Acquisition Date	3/13/2010 10:22:56 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	1.48e+006
		Manual Modification	No
		Amount:	585. (ng/mL)
		% Accuracy:	97.60



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 1022  
 Standard Number WXX100312-56CCV  
 Data File EXP0312061a

HMX	88.5
RDX	98.7
TNX	97.1
DNX	93.6
MNX	99.9
135-Trinitrobenzene	91.9
13-Dinitrobenzene	92.0
Tetryl	114.0
246-Trinitrotoluene	92.4
Nitrobenzene	102.0
34-dinitrotoluene	94.9
26-dinitrotoluene	104.0
24-dinitrotoluene	96.1
4-Amino-26-dinitrotoluene	97.8
2-Amino-46-dinitrotoluene	116.0
2-Nitrotoluene	100.0
4-Nitrotoluene	97.7
3-Nitrotoluene	99.1
PETN	97.6

TOTAL

1873.3

*Handwritten: Hmx 03/24/10*

AVERAGE

✓ 98.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Handwritten: Saw 3/24/10*

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312063.wiff

Analysis Date: 13-MAR-10 11:15

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	48.1	120	
2,4,6-Trinitrotoluene	40	48.2	121	
2,4-Dinitrotoluene	40	43.3	108	
2,6-Dinitrotoluene	40	30.3	76	
2-Amino-4,6-dinitrotoluene	40	41.9	105	
3,4-Dinitrotoluene	20	21.8	109	
4-Amino-2,6-dinitrotoluene	40	43.7	109	
DNX	40	41.2	103	
HMX	40	44.4	111	
MXN	40	36.9	92	
Nitrobenzene	40	40.3	101	
PETN	40	37.2	93	
RDX	40	40.3	101	
TNX	40	40	100	
Tetryl	40	52.6	131	
m-Dinitrobenzene	40	46.8	117	
m-Nitrotoluene	40	39.9	100	
o-Nitrotoluene	40	39	98	
p-Nitrotoluene	40	35.3	88	

Recovery Limits:

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

Other Target Analytes 70-130%

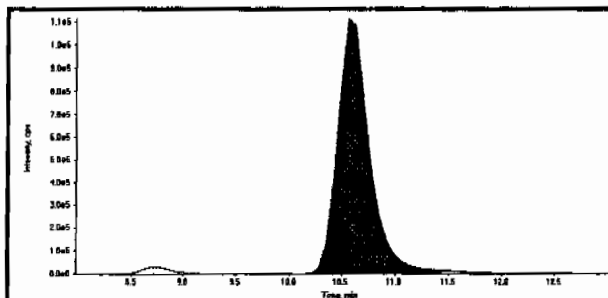
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

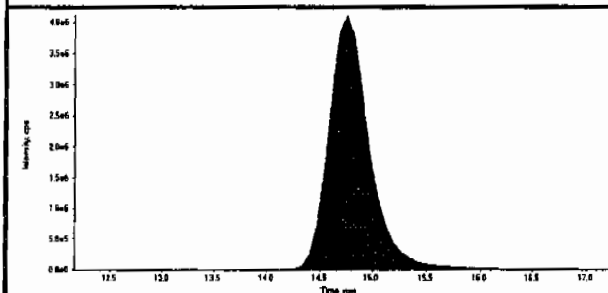
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



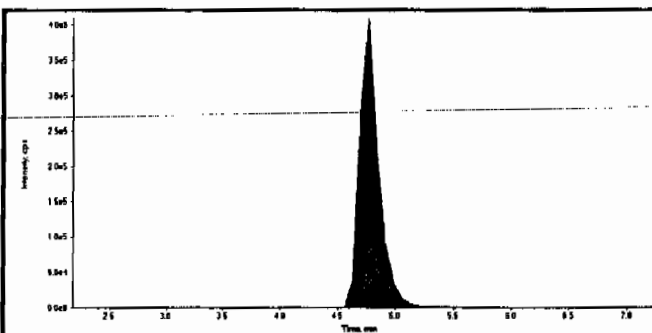
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	23800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

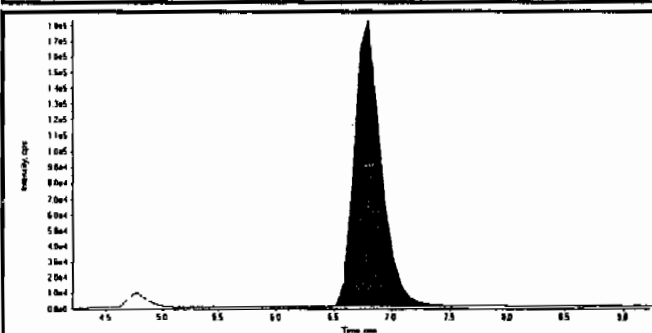


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	112000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.82e+006
Manual Modification	No
Amount:	44.4 (ng/mL)
% Accuracy:	111.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.02e+006
Manual Modification	No
Amount:	40.3 (ng/mL)
% Accuracy:	101.00

*LER*  
*3/24/10* *#mve* *03/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312063.wiff	<b>Acquisition Date</b>	3/13/2010 11:15:44 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.06e+006
	Manual Modification	No
	Amount:	40.0 (ng/mL)
	% Accuracy:	99.90

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.81e+006
	Manual Modification	No
	Amount:	41.2 (ng/mL)
	% Accuracy:	103.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.39e+006
	Manual Modification	No
	Amount:	36.9 (ng/mL)
	% Accuracy:	92.20

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.40e+007
	Manual Modification	No
	Amount:	48.1 (ng/mL)
	% Accuracy:	120.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	5.96e+006
	Manual Modification	No
	Amount:	46.8 (ng/mL)
	% Accuracy:	117.00

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	8.65e+006
	Manual Modification	No
	Amount:	52.6 (ng/mL)
	% Accuracy:	131.00

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.53e+007
	Manual Modification	No
	Amount:	48.2 (ng/mL)
	% Accuracy:	121.00

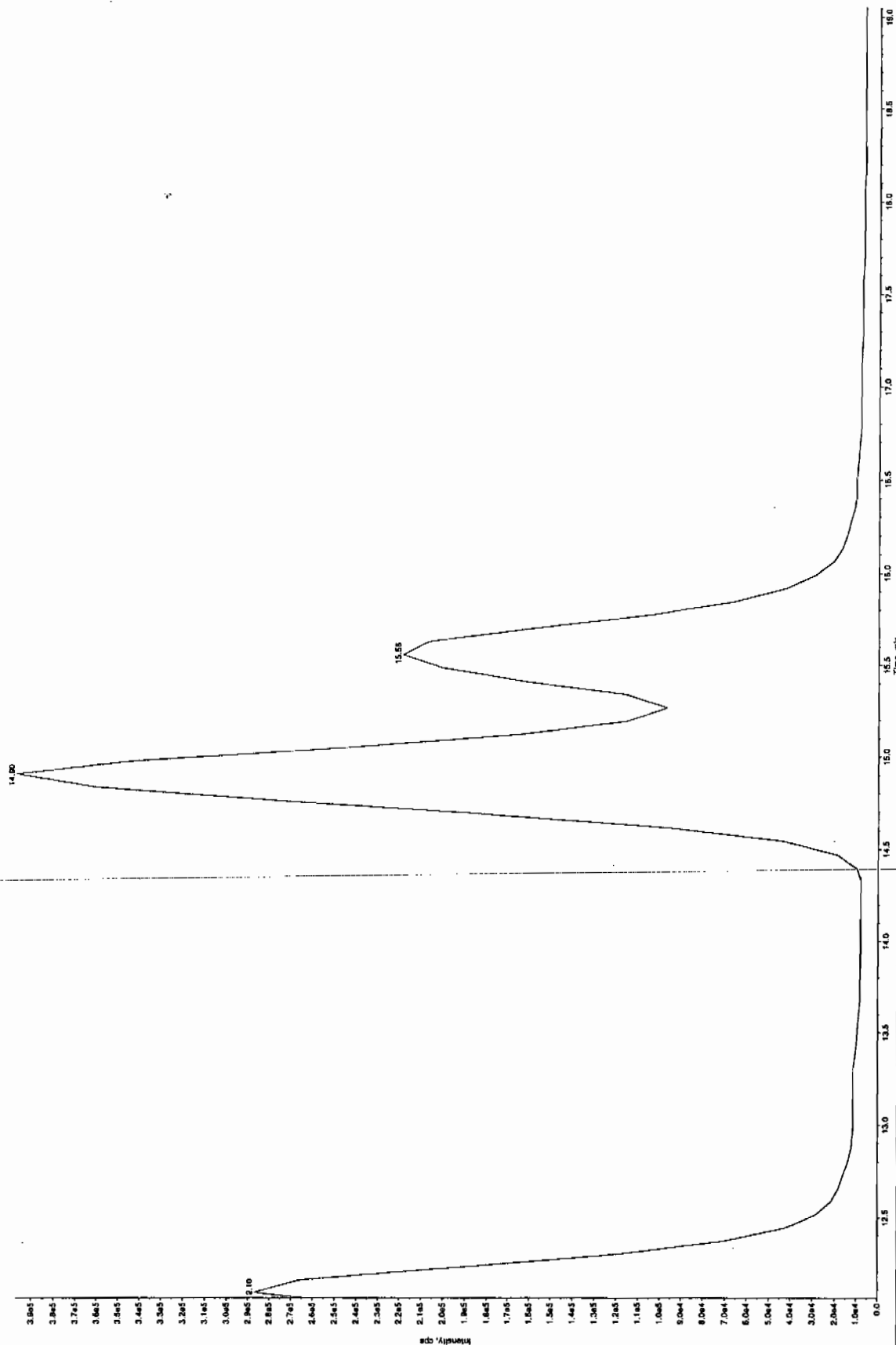
  

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.91e+005
	Manual Modification	No
	Amount:	40.3 (ng/mL)
	% Accuracy:	101.00

Before Jan 3/24/10

Sample Name: "W00100312503" Sample ID: "W00100312503" File: "W00100312503.wif"  
 Comment: "LCKSEXP" C: "Annotation:"

Sample Index: 1  
 Sample Type: CC  
 Sample Volume: 40.00 µL  
 Calculated Conc: 0.60 ng/mL  
 Date: 3/13/2010  
 Time: 11:15:44 AM  
 Diluted: No

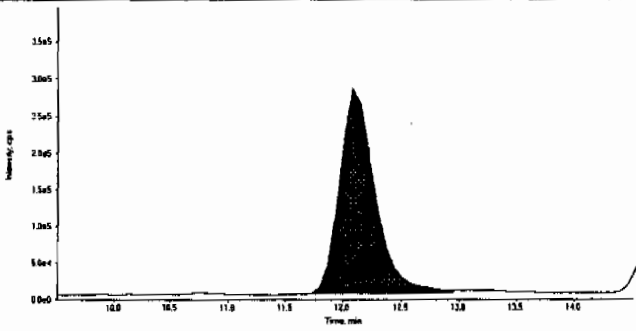


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

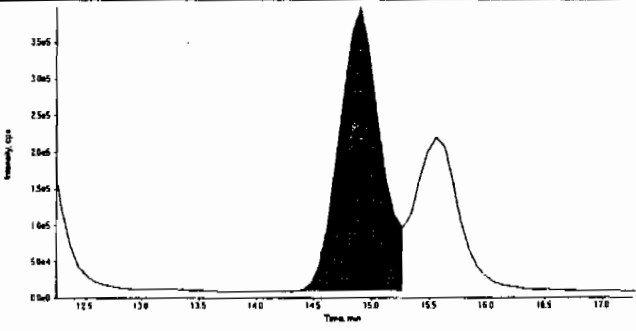
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312063.wiff	<b>Acquisition Date</b>	3/13/2010 11:15:44 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

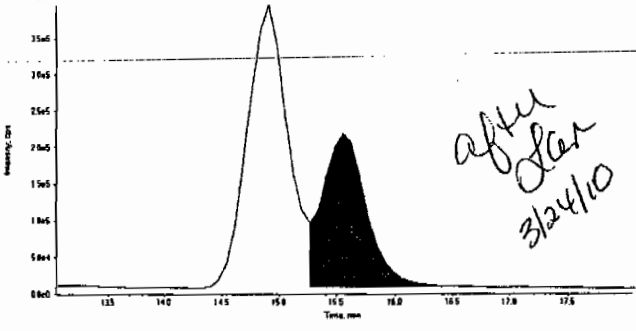
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.1
	Area Counts:	6.00e+006
	Manual Modification	No
	Amount:	21.8 (ng/mL)
	% Accuracy:	109.00

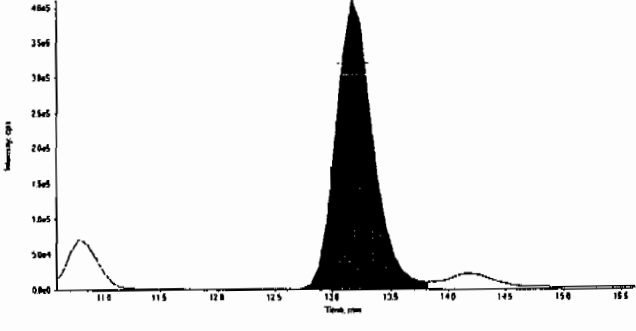
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	14.9
	Area Counts:	9.65e+006
	Manual Modification	No
	Amount:	30.3 (ng/mL)
	% Accuracy:	75.80

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.6
	Area Counts:	5.70e+006
	Manual Modification	Yes
	Amount:	43.3 (ng/mL)
	% Accuracy:	108.00

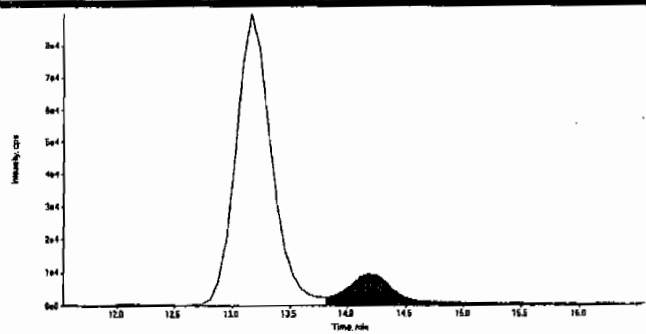
	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	9.12e+006
	Manual Modification	No
	Amount:	43.7 (ng/mL)
	% Accuracy:	109.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

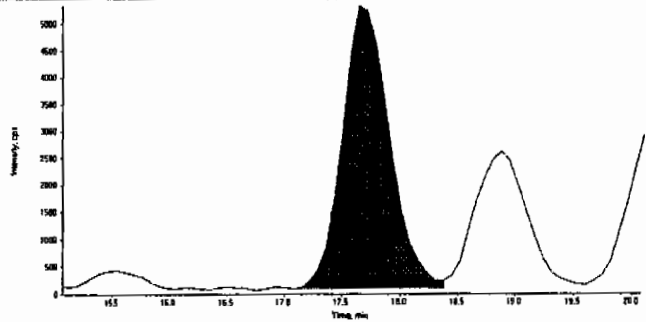
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312063.wiff	<b>Acquisition Date</b>	3/13/2010 11:15:44 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

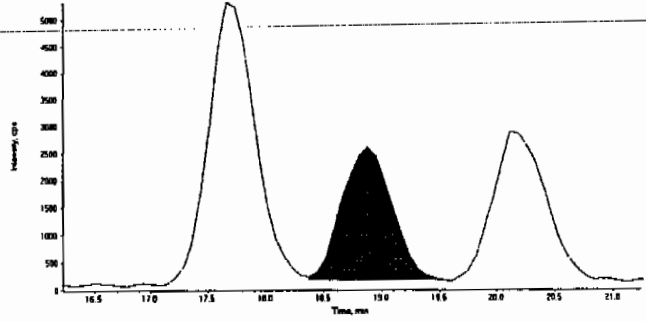
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.2
	Area Counts:	2.83e+005
	Manual Modification	No
	Amount:	41.9 (ng/mL)
	% Accuracy:	105.00

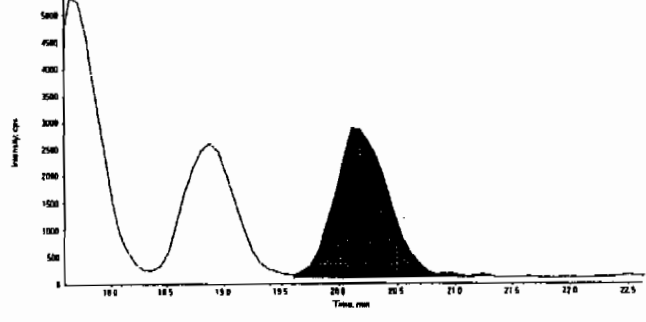
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.48e+005
	Manual Modification	No
	Amount:	39.0 (ng/mL)
	% Accuracy:	97.60

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	18.9
	Area Counts:	7.36e+004
	Manual Modification	No
	Amount:	35.3 (ng/mL)
	% Accuracy:	88.20

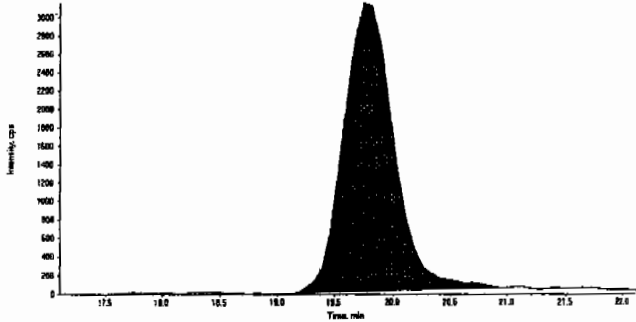
  

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.1
	Area Counts:	9.27e+004
	Manual Modification	No
	Amount:	39.9 (ng/mL)
	% Accuracy:	99.80



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312063.wiff	Acquisition Date	3/13/2010 11:15:44 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.7
		Area Counts:	9.45e+004
		Manual Modification	No
		Amount:	37.2 (ng/mL)
		% Accuracy:	92.90

# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 1115  
 Standard Number WXX100312-57CRI  
 Data File EXP0312063a

HMX	111.0
RDX	101.0
TNX	99.9
DNX	103.0
MNX	92.2
135-Trinitrobenzene	120.0
13-Dinitrobenzene	117.0
Tetryl	131.0
246-Trinitrotoluene	121.0
Nitrobenzene	101.0
34-dinitrotoluene	109.0
26-dinitrotoluene	75.8
24-dinitrotoluene	108.0
4-Amino-26-dinitrotoluene	109.0
2-Amino-46-dinitrotoluene	105.0
2-Nitrotoluene	97.6
4-Nitrotoluene	88.2
3-Nitrotoluene	99.8
PETN	92.9

TOTAL

1982.4

*Handwritten: 1982.4/10*

AVERAGE

✓ 104.3

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*Handwritten: Jar 3/24/10*

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312074.wiff

Analysis Date: 13-MAR-10 16:06

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
DNX	600	581	97	
HMX	600	533	89	
MNX	600	618	103	
Nitrobenzene	600	617	103	
PETN	600	578	96	
RDX	600	626	104	
TNX	600	600	100	
Tetryl	600	679	113	
m-Dinitrobenzene	600	587	98	
m-Nitrotoluene	600	522	87	
o-Nitrotoluene	600	541	90	
p-Nitrotoluene	600	523	87	
1,3,5-Trinitrobenzene	600	574	96	
2,4,6-Trinitrotoluene	600	530	88	
2,4-Dinitrotoluene	600	517	86	
2,6-Dinitrotoluene	600	612	102	
2-Amino-4,6-dinitrotoluene	600	619	103	
3,4-Dinitrotoluene	300	269	90	
4-Amino-2,6-dinitrotoluene	600	545	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%

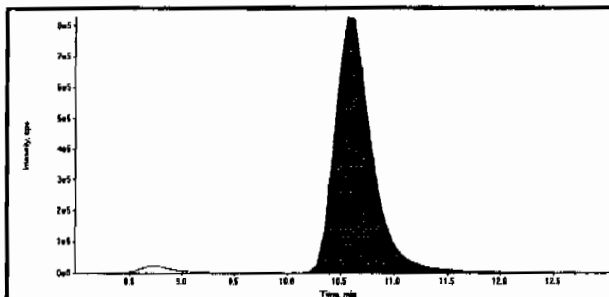
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

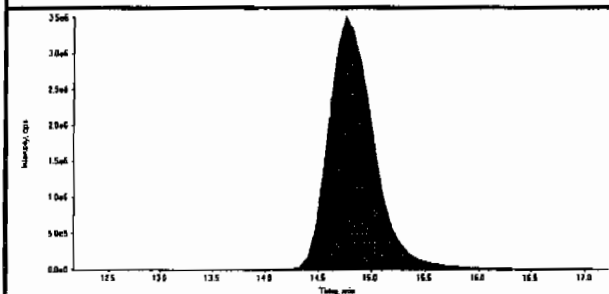
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

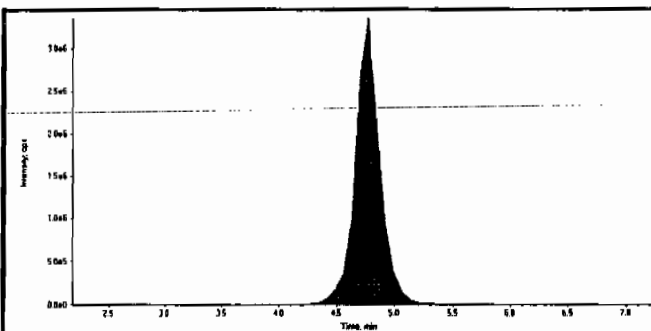
Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



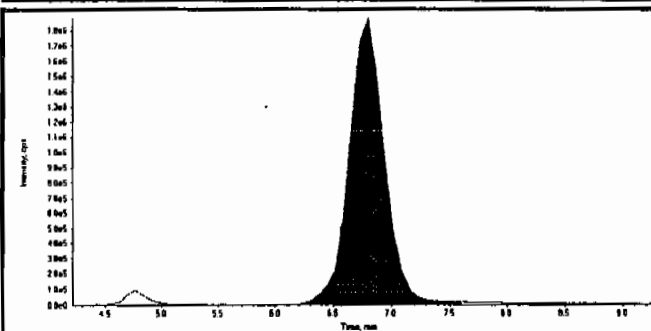
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	105000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.93e+007
Manual Modification	No
Amount:	533. (ng/mL)
% Accuracy:	88.90



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.99e+007
Manual Modification	No
Amount:	626. (ng/mL)
% Accuracy:	104.00

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GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312074.wiff	<b>Acquisition Date</b>	3/13/2010 4:06:21 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.91e+007
	Manual Modification	No
	Amount:	600. (ng/mL)
	% Accuracy:	100.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.38e+007
	Manual Modification	No
	Amount:	581. (ng/mL)
	% Accuracy:	96.80

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.98e+007
	Manual Modification	No
	Amount:	618. (ng/mL)
	% Accuracy:	103.00

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.42e+008
	Manual Modification	No
	Amount:	574. (ng/mL)
	% Accuracy:	95.60

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312074.wiff	<b>Acquisition Date</b>	3/13/2010 4:06:21 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.7
	Area Counts:	6.36e+007
	Manual Modification	No
	Amount:	587. (ng/mL)
	% Accuracy:	97.80

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.8
	Area Counts:	9.52e+007
	Manual Modification	No
	Amount:	679. (ng/mL)
	% Accuracy:	113.00

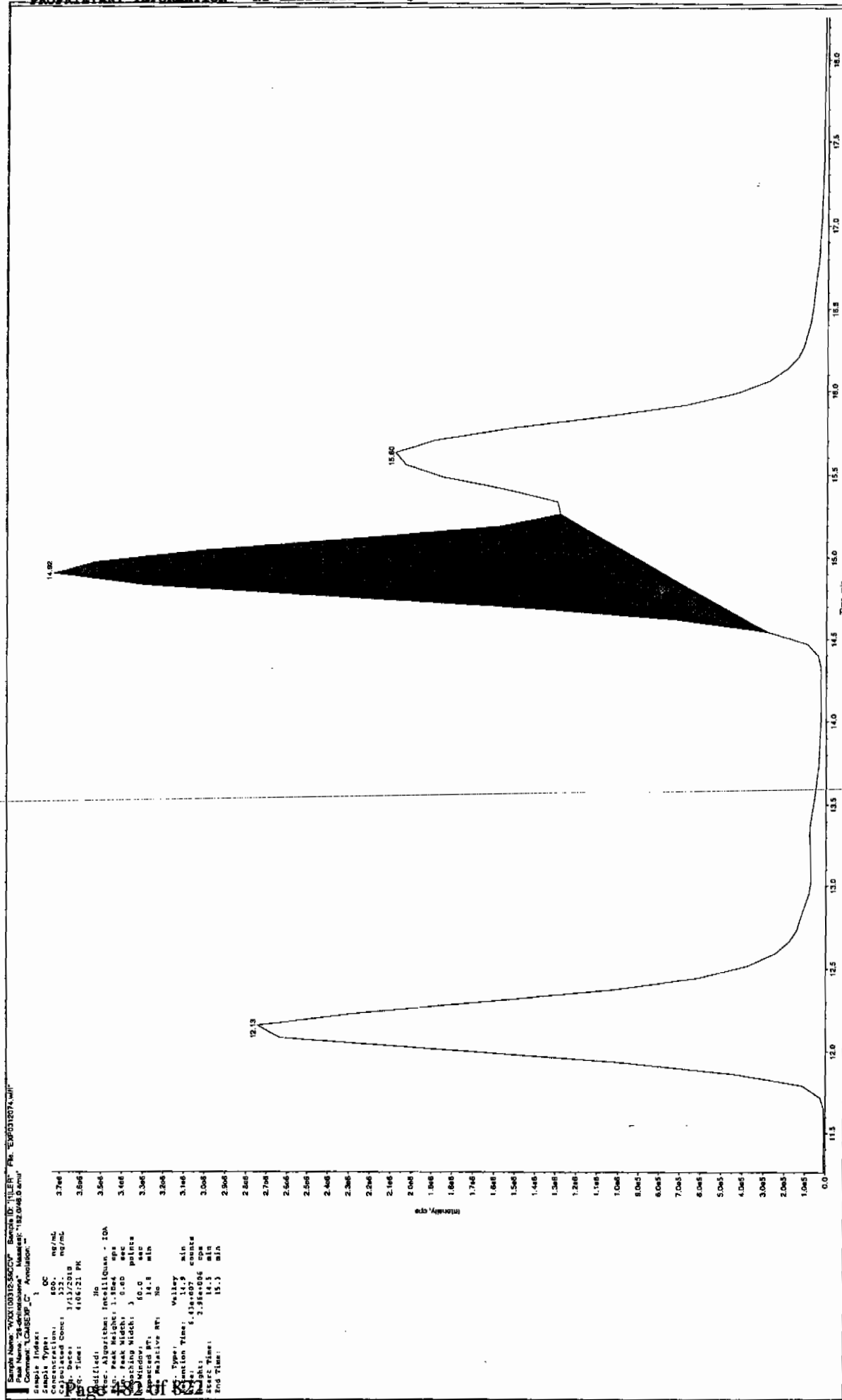
  

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	2.60e+008
	Manual Modification	No
	Amount:	530. (ng/mL)
	% Accuracy:	88.30

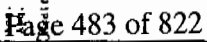
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	3.79e+006
	Manual Modification	No
	Amount:	617. (ng/mL)
	% Accuracy:	103.00

Before Jan 3/24/00



Sample Name: "W00100315-5620" Sample ID: "1118" File: "E90312074.w" Acquisition: "12.046.0" Method: "LARGE" Comment: "LARGE" Acquisition: "12.046.0"

Sample Index: 1  
 Sample Type: DC  
 Concentration: 32.0  
 Date: 1/13/2018  
 Time: 4:06:21 PM  
 Modified: No  
 Acquisition: IntelliQuan - IDA  
 Peak Height: 1.85e4  
 Peak Width: 0.60  
 Peak Area: 1.85e4  
 Expected RT: 14.8  
 Relative RT: No  
 Type: Valley  
 Retention Time: 14.8  
 Counts: 6.43e007  
 Peak RT: 14.8  
 Peak Width: 0.60  
 Peak Area: 1.85e4  
 End Time: 15.3





GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312074.wiff	<b>Acquisition Date</b>	3/13/2010 4:06:21 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	6.91e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	269. (ng/mL)
	<b>% Accuracy:</b>	89.50

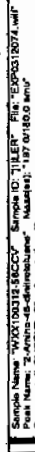
	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	14.9
	<b>Area Counts:</b>	1.04e+008
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	612. (ng/mL)
	<b>% Accuracy:</b>	102.00

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.6
	<b>Area Counts:</b>	6.35e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	517. (ng/mL)
	<b>% Accuracy:</b>	86.10

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	1.06e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	545. (ng/mL)
	<b>% Accuracy:</b>	90.90

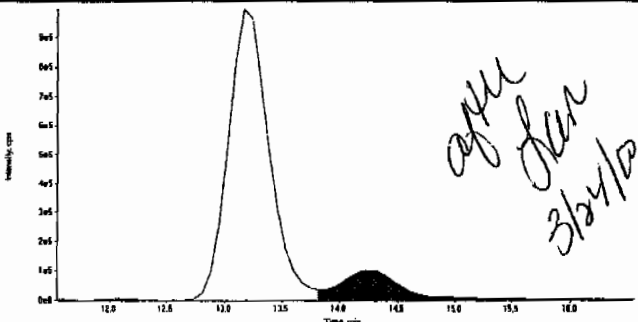


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

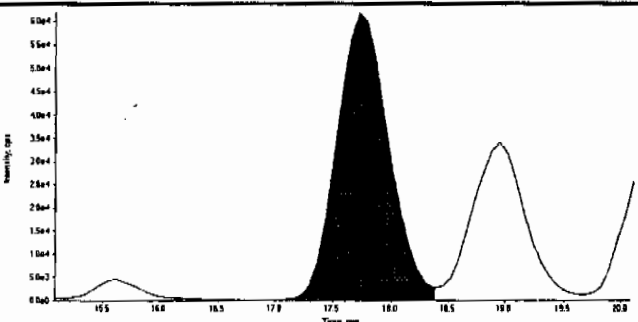
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312074.wiff	<b>Acquisition Date</b>	3/13/2010 4:06:21 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch/Dilution/Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

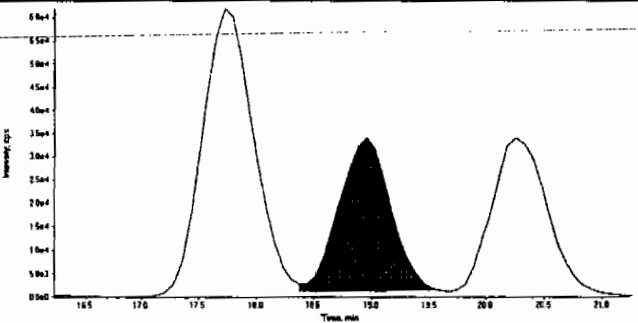
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	3.91e+006
	Manual Modification	Yes
	Amount:	619. (ng/mL)
	% Accuracy:	103.00

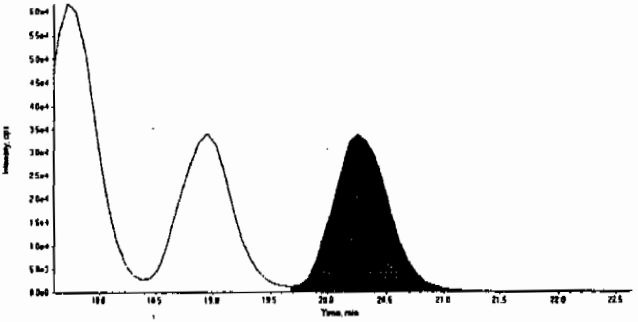
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.7
	Area Counts:	1.92e+006
	Manual Modification	No
	Amount:	541. (ng/mL)
	% Accuracy:	90.20

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	1.02e+006
	Manual Modification	No
	Amount:	523. (ng/mL)
	% Accuracy:	87.10

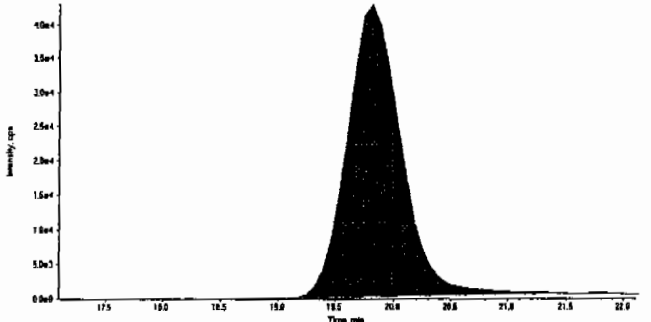
	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	1.13e+006
	Manual Modification	No
	Amount:	522. (ng/mL)
	% Accuracy:	87.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312074.wiff	Acquisition Date	3/13/2010 4:06:21 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	19.8
	Area Counts:	1.37e+006
	Manual Modification	No
	Amount:	578. (ng/mL)
	% Accuracy:	96.30

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 1606  
 Standard Number WXX100312-56CCV  
 Data File EXP0312074a

HMX	88.9
RDX	104.0
TNX	100.0
DNX	96.8
MXN	103.0
135-Trinitrobenzene	95.6
13-Dinitrobenzene	97.8
Tetryl	113.0
246-Trinitrotoluene	88.3
Nitrobenzene	103.0
34-dinitrotoluene	89.5
26-dinitrotoluene	102.0
24-dinitrotoluene	86.1
4-Amino-26-dinitrotoluene	90.9
2-Amino-46-dinitrotoluene	103.0
2-Nitrotoluene	90.2
4-Nitrotoluene	87.1
3-Nitrotoluene	87.0
PETN	96.3

TOTAL

1822.5

*Hmx 03/24/10*

AVERAGE

✓ 95.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

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*3/24/10*

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312076.wiff

Analysis Date: 13-MAR-10 16:59

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	47.7	119	
2,4,6-Trinitrotoluene	40	47	118	
2,4-Dinitrotoluene	40	42.2	106	
2,6-Dinitrotoluene	40	29.1	73	
2-Amino-4,6-dinitrotoluene	40	39.9	100	
3,4-Dinitrotoluene	20	20.7	104	
4-Amino-2,6-dinitrotoluene	40	42.6	106	
DNX	40	45.4	114	
HMX	40	44.5	111	
MNX	40	42.3	106	
Nitrobenzene	40	40	100	
PETN	40	45.1	113	
RDX	40	39.9	100	
TNX	40	45.2	113	
Tetryl	40	51.5	129	
m-Dinitrobenzene	40	42.9	107	
m-Nitrotoluene	40	40.4	101	
o-Nitrotoluene	40	36.9	92	
p-Nitrotoluene	40	35.4	89	

Recovery Limits:

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

Other Target Analytes 70-130%

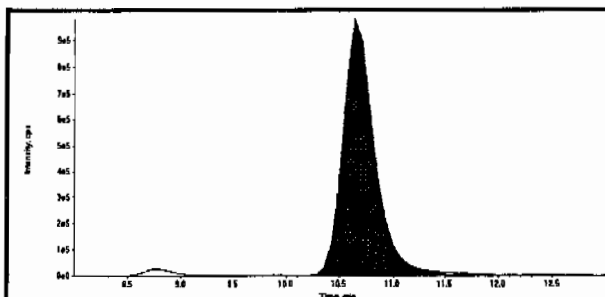
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

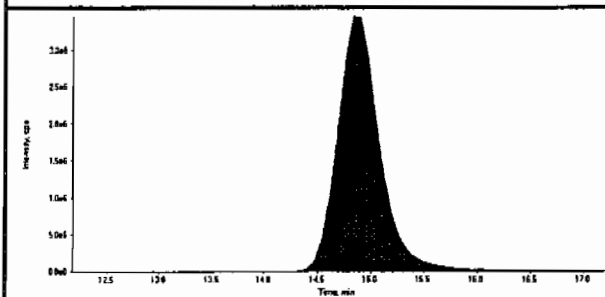
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



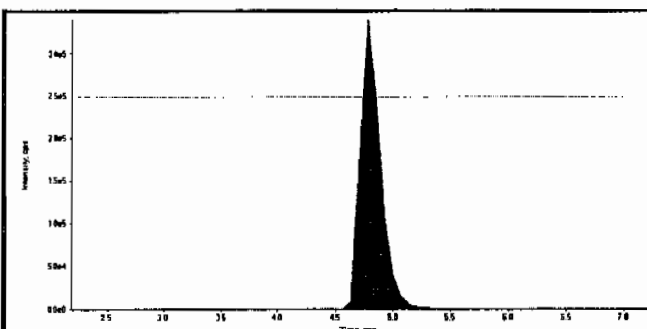
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20400000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

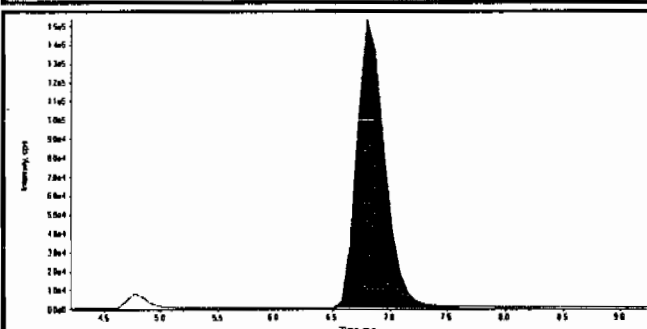


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	95800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.15e+006
Manual Modification	No
Amount:	44.5 (ng/mL)
% Accuracy:	111.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.56e+006
Manual Modification	No
Amount:	39.9 (ng/mL)
% Accuracy:	99.70

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GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312076.wiff	<b>Acquisition Date</b>	3/13/2010 4:59:11 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.14
	Area Counts:	2.97e+006
	Manual Modification	No
	Amount:	45.2 (ng/mL)
	% Accuracy:	113.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.66e+006
	Manual Modification	No
	Amount:	45.4 (ng/mL)
	% Accuracy:	114.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.37e+006
	Manual Modification	No
	Amount:	42.3 (ng/mL)
	% Accuracy:	106.00

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.19e+007
	Manual Modification	No
	Amount:	47.7 (ng/mL)
	% Accuracy:	119.00



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312076.wiff	<b>Acquisition Date</b>	3/13/2010 4:59:11 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	10.8
	<b>Area Counts:</b>	4.69e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	42.9 (ng/mL)
	<b>% Accuracy:</b>	107.00

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	10.9
	<b>Area Counts:</b>	7.28e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	51.5 (ng/mL)
	<b>% Accuracy:</b>	129.00

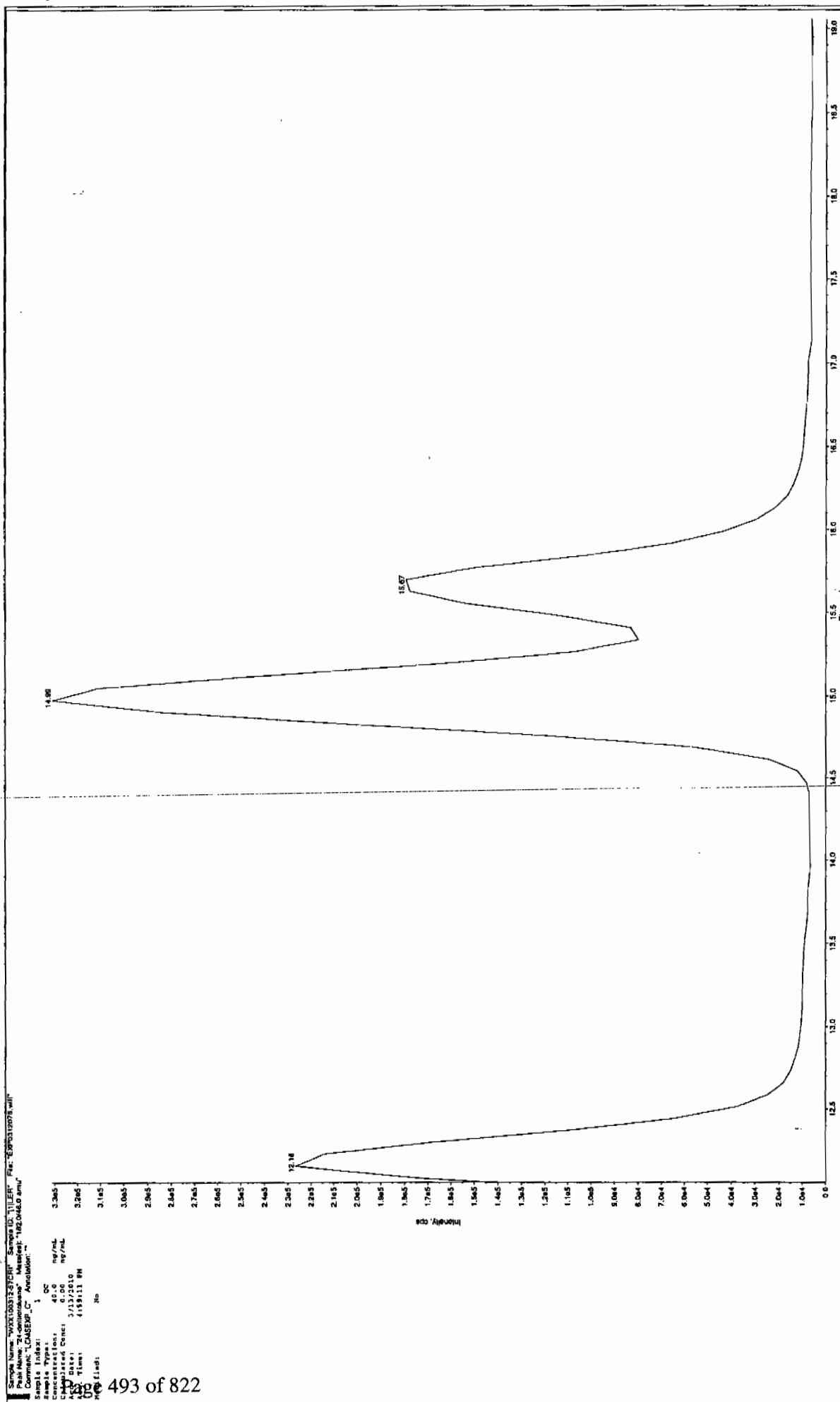
  

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.3
	<b>Area Counts:</b>	2.11e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	47.0 (ng/mL)
	<b>% Accuracy:</b>	118.00

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	11.9
	<b>Area Counts:</b>	2.48e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	40.0 (ng/mL)
	<b>% Accuracy:</b>	99.90

Before Scan 3/24/10



Sample Name: "WAX1003123701" Sample ID: "TILER" File: "E:\P0312078.w" Peak Name: "21-antiocholine" Masses: "182.046.0 amu"

Comment: "CASEP\_C" Acquisition: "1" QC  
 Sample Type: "48.6 ng/mL"  
 Concentration: "0.00 ng/mL"  
 Calculated Conc: "3.115110 ng/mL"  
 Time: "4159111.00"  
 No

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312076.wiff	<b>Acquisition Date</b>	3/13/2010 4:59:11 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.90e+006
	Manual Modification	No
	Amount:	20.7 (ng/mL)
	% Accuracy:	104.00

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	8.07e+006
	Manual Modification	No
	Amount:	29.1 (ng/mL)
	% Accuracy:	72.70

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	4.76e+006
	Manual Modification	Yes
	Amount:	42.2 (ng/mL)
	% Accuracy:	106.00

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	7.60e+006
	Manual Modification	No
	Amount:	42.6 (ng/mL)
	% Accuracy:	106.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312076.wiff	<b>Acquisition Date</b>	3/13/2010 4:59:11 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	2.31e+005
	Manual Modification	No
	Amount:	39.9 (ng/mL)
	% Accuracy:	99.80

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	1.20e+005
	Manual Modification	No
	Amount:	36.9 (ng/mL)
	% Accuracy:	92.30

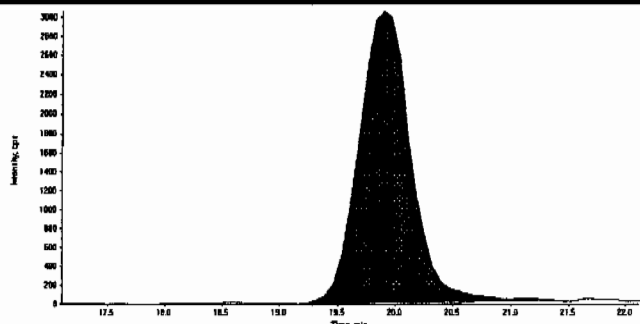
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	6.32e+004
	Manual Modification	No
	Amount:	35.4 (ng/mL)
	% Accuracy:	88.50

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	8.03e+004
	Manual Modification	No
	Amount:	40.4 (ng/mL)
	% Accuracy:	101.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312076.wiff	Acquisition Date	3/13/2010 4:59:11 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	9.82e+004
		Manual Modification	No
		Amount:	45.1 (ng/mL)
		% Accuracy:	113.00

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 1659  
 Standard Number WXX100312-57CRI  
 Data File EXP0312076a

HMX	111.0
RDX	99.7
TNX	113.0
DNX	114.0
MNX	106.0
135-Trinitrobenzene	119.0
13-Dinitrobenzene	107.0
Tetryl	129.0
246-Trinitrotoluene	118.0
Nitrobenzene	99.9
34-dinitrotoluene	104.0
26-dinitrotoluene	72.7
24-dinitrotoluene	106.0
4-Amino-26-dinitrotoluene	106.0
2-Amino-46-dinitrotoluene	99.8
2-Nitrotoluene	92.3
4-Nitrotoluene	88.5
3-Nitrotoluene	101.0
PETN	113.0

TOTAL

1999.9

*Ann 03/24/10*

AVERAGE

✓ 105.3

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*dan  
3/24/10*

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312087.wiff

Analysis Date: 13-MAR-10 21:50

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	595	99	
2,4,6-Trinitrotoluene	600	606	101	
2,4-Dinitrotoluene	600	557	93	
2,6-Dinitrotoluene	600	653	109	
2-Amino-4,6-dinitrotoluene	600	602	100	
3,4-Dinitrotoluene	300	280	93	
4-Amino-2,6-dinitrotoluene	600	619	103	
DNX	600	634	106	
HMX	600	576	96	
MXN	600	684	114	
Nitrobenzene	600	582	97	
PETN	600	676	113	
RDX	600	626	104	
TNX	600	619	103	
Tetryl	600	730	122	
m-Dinitrobenzene	600	580	97	
m-Nitrotoluene	600	562	94	
o-Nitrotoluene	600	560	93	
p-Nitrotoluene	600	544	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%

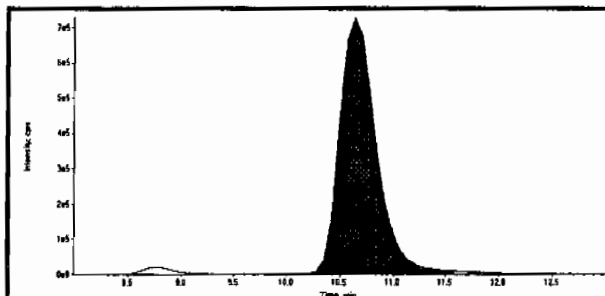
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

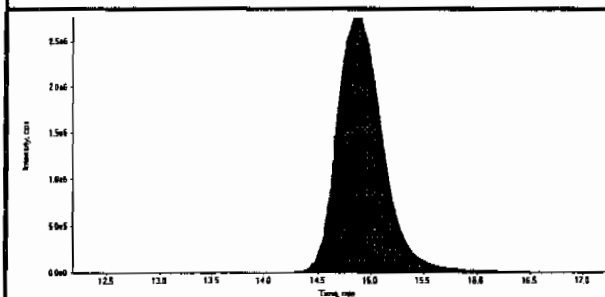
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



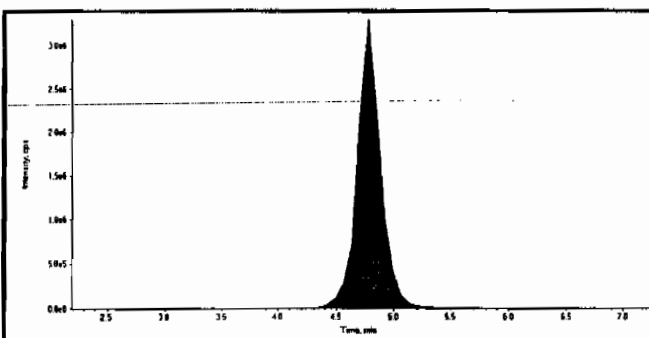
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	17800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

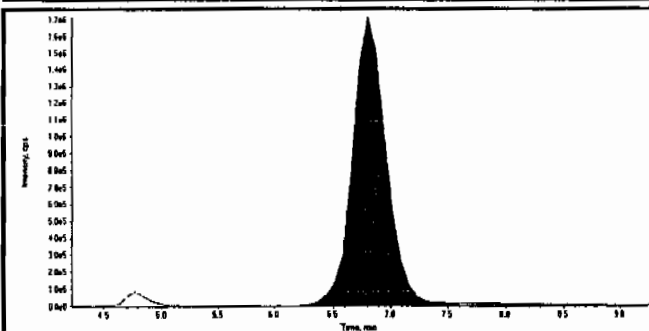


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	84500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.67e+007
Manual Modification	No
Amount:	576. (ng/mL)
% Accuracy:	96.10



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.50e+007
Manual Modification	No
Amount:	626. (ng/mL)
% Accuracy:	104.00

*San  
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HMM  
03/24/10*



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312087.wiff	<b>Acquisition Date</b>	3/13/2010 9:50:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.54e+007
	Manual Modification	No
	Amount:	619. (ng/mL)
	% Accuracy:	103.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.23e+007
	Manual Modification	No
	Amount:	634. (ng/mL)
	% Accuracy:	106.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.92e+007
	Manual Modification	No
	Amount:	684. (ng/mL)
	% Accuracy:	114.00

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.29e+008
	Manual Modification	No
	Amount:	595. (ng/mL)
	% Accuracy:	99.20

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312087.wiff	<b>Acquisition Date</b>	3/13/2010 9:50:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	10.8
	<b>Area Counts:</b>	5.51e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	580. (ng/mL)
	<b>% Accuracy:</b>	96.70

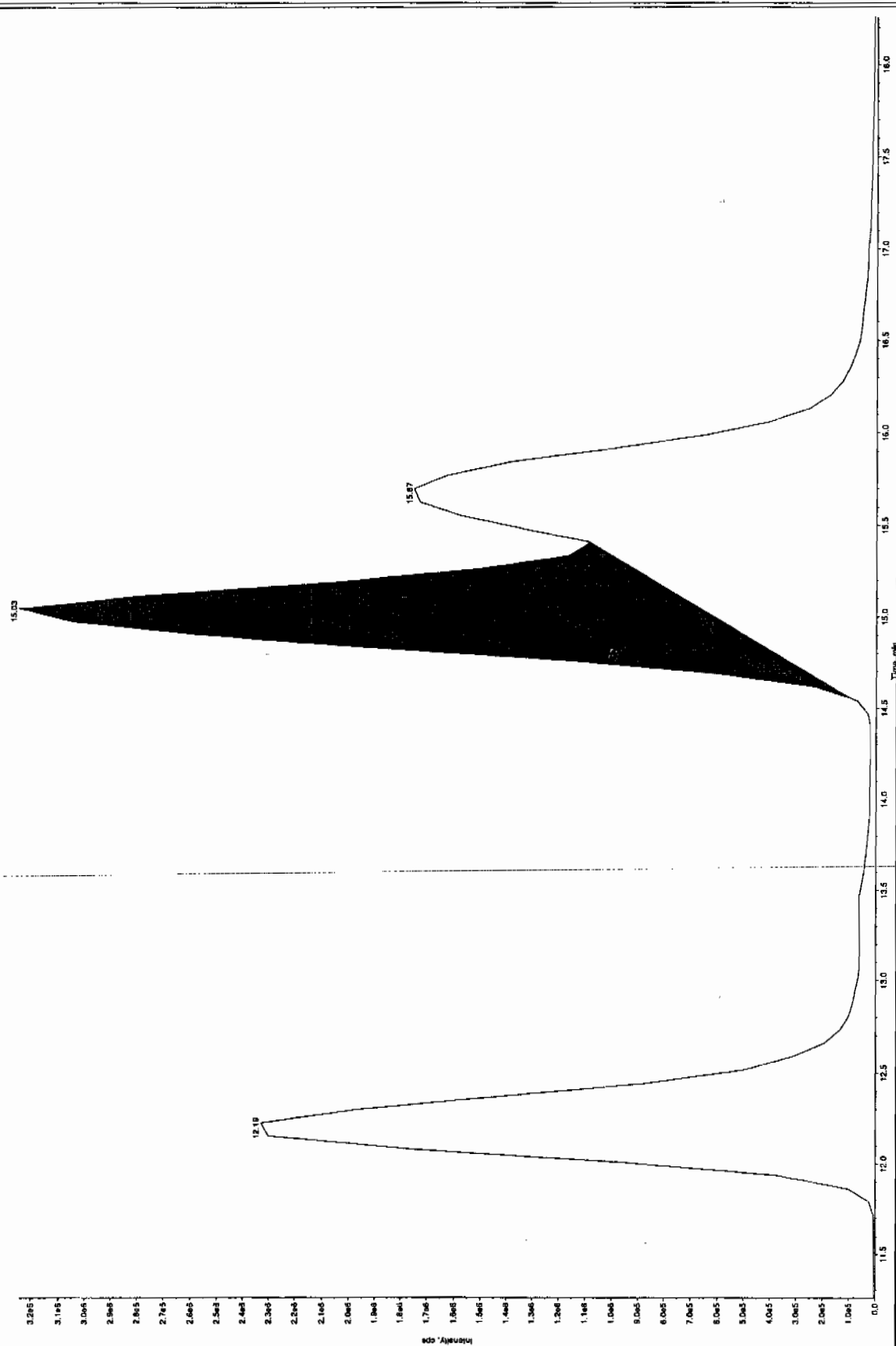
	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	10.9
	<b>Area Counts:</b>	8.96e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	730. (ng/mL)
	<b>% Accuracy:</b>	122.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.3
	<b>Area Counts:</b>	2.40e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	606. (ng/mL)
	<b>% Accuracy:</b>	101.00

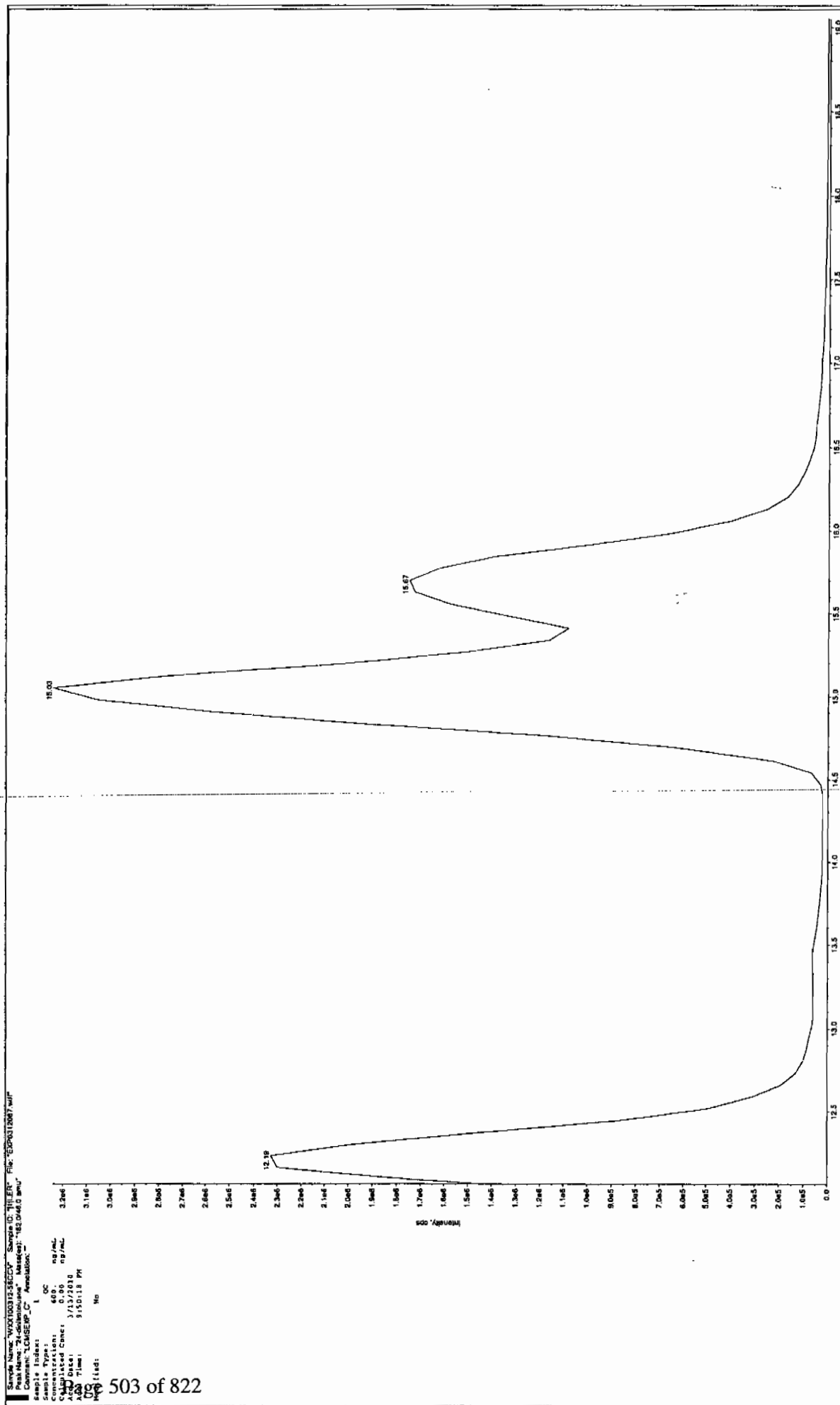
  

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	11.9
	<b>Area Counts:</b>	3.14e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	582. (ng/mL)
	<b>% Accuracy:</b>	97.00

[illegible]

Before Ken 3/24/60

Before Day 3/24/10

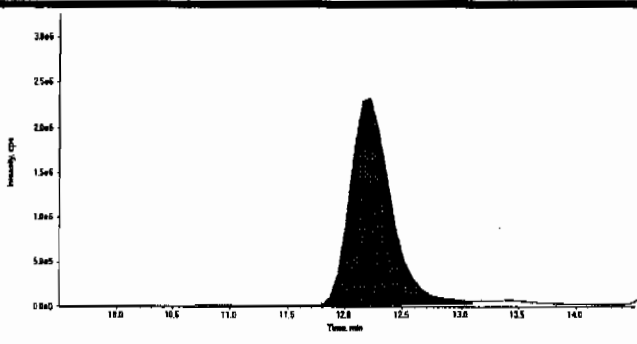


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

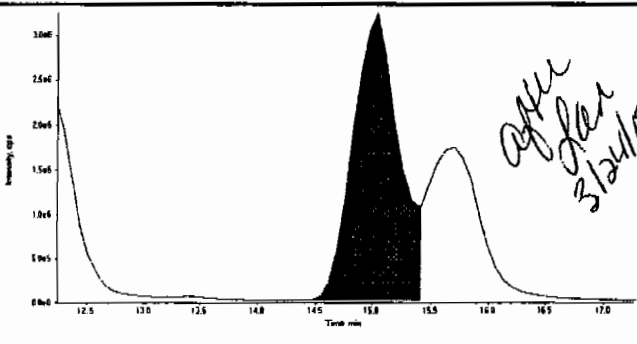
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312087.wiff	<b>Acquisition Date</b>	3/13/2010 9:50:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

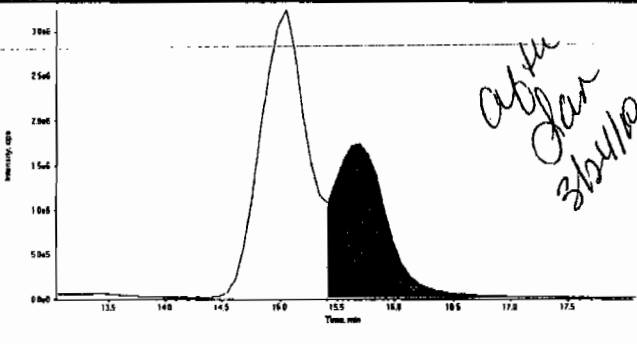
  

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	5.84e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	280. (ng/mL)
	<b>% Accuracy:</b>	93.40

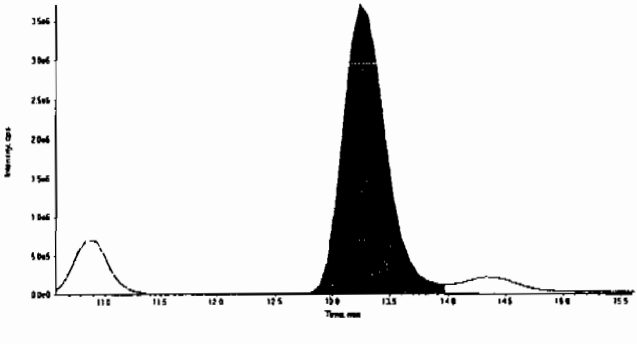
  

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	15.0
	<b>Area Counts:</b>	8.92e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	653. (ng/mL)
	<b>% Accuracy:</b>	109.00

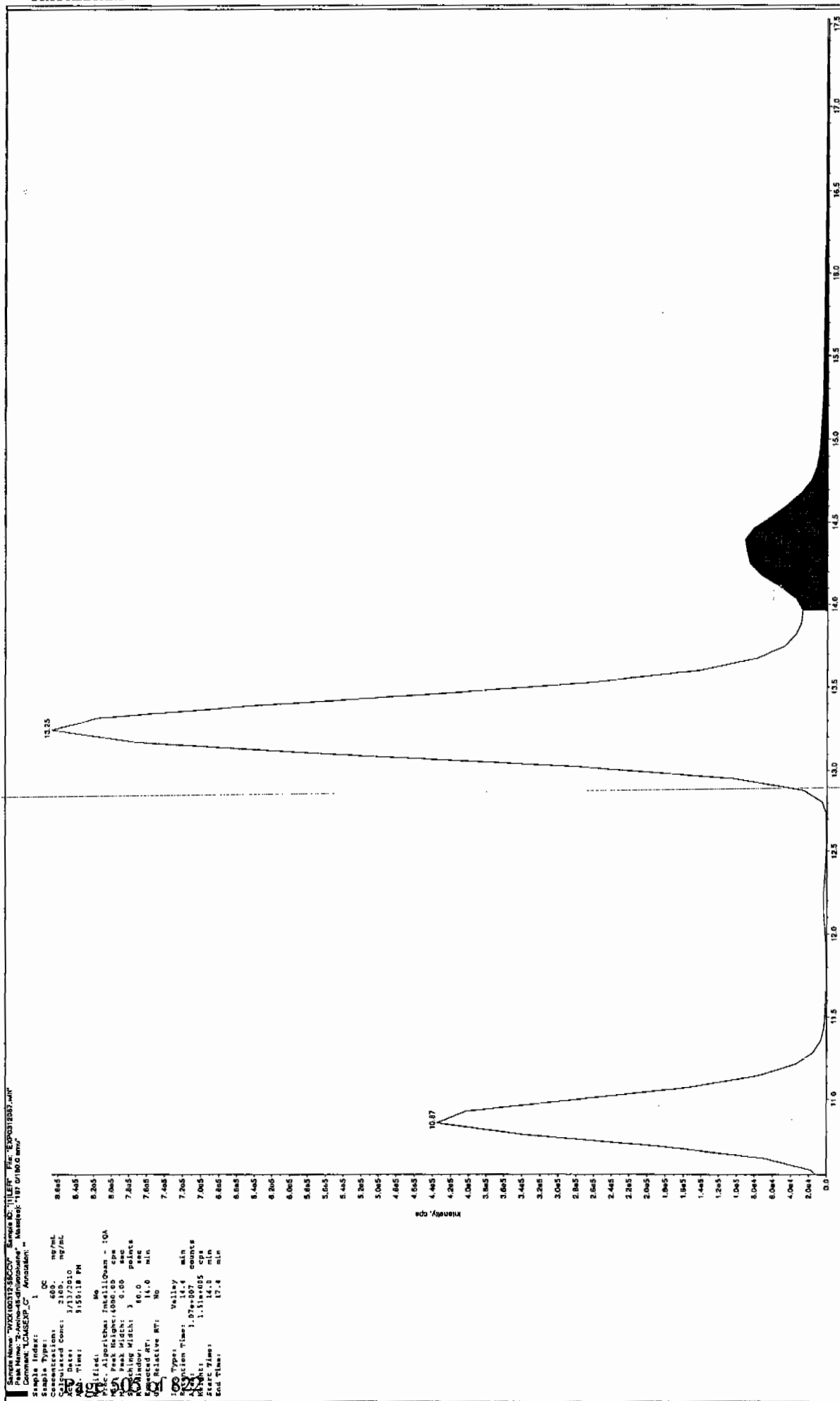
  

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.7
	<b>Area Counts:</b>	5.54e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	557. (ng/mL)
	<b>% Accuracy:</b>	92.90

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	9.75e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	619. (ng/mL)
	<b>% Accuracy:</b>	103.00

Before Jan 3/24/10

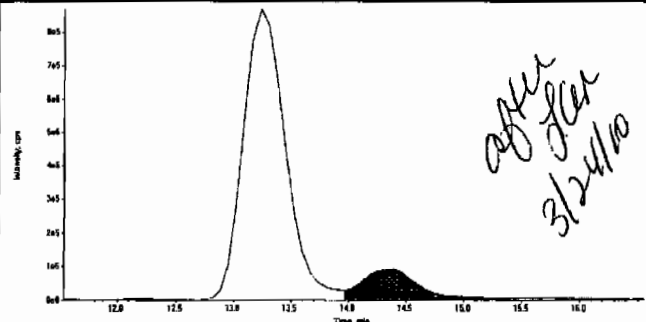


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

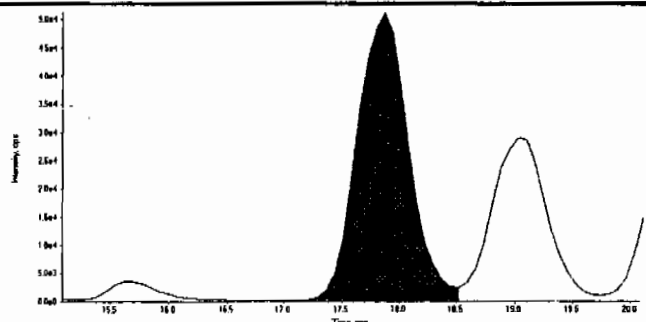
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312087.wiff	<b>Acquisition Date</b>	3/13/2010 9:50:18 PM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

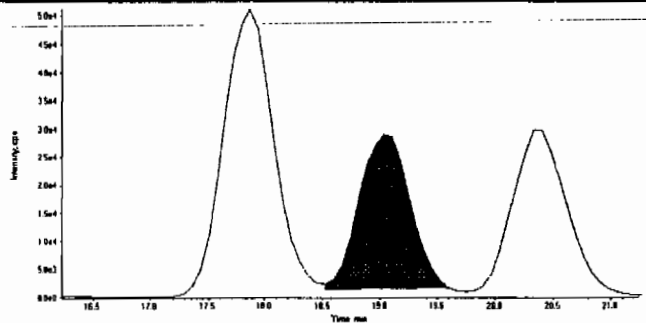
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.4
	<b>Area Counts:</b>	3.08e+006
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	602. (ng/mL)
	<b>% Accuracy:</b>	100.00

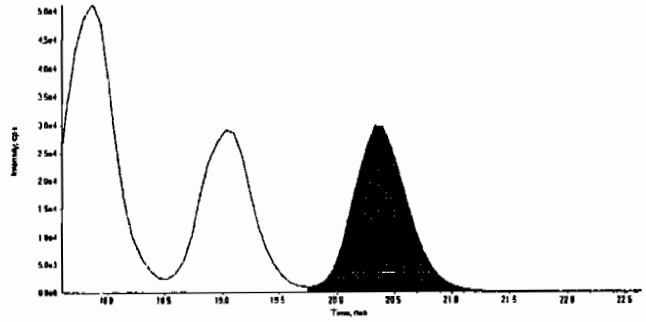
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.9
	<b>Area Counts:</b>	1.61e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	560. (ng/mL)
	<b>% Accuracy:</b>	93.40

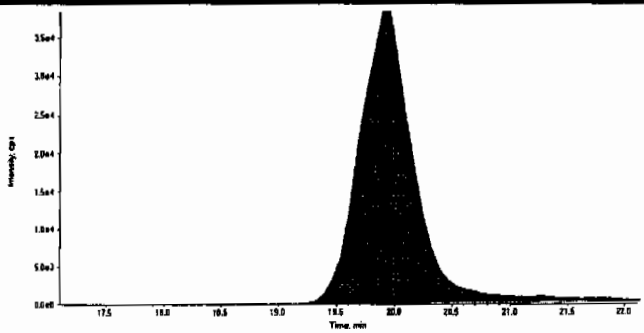
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	19.0
	<b>Area Counts:</b>	8.57e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	544. (ng/mL)
	<b>% Accuracy:</b>	90.60

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.3
	<b>Area Counts:</b>	9.85e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	562. (ng/mL)
	<b>% Accuracy:</b>	93.60

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312087.wiff	Acquisition Date	3/13/2010 9:50:18 PM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	20.0
		Area Counts:	1.30e+006
		Manual Modification	No
		Amount:	676. (ng/mL)
		% Accuracy:	113.00



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 2150  
 Standard Number WXX100312-56CCV  
 Data File EXP0312087a

HMX	96.1	✓
RDX	104.0	✓
TNX	103.0	
DNX	106.0	
MNX	114.0	
135-Trinitrobenzene	99.2	
13-Dinitrobenzene	96.7	
Tetryl	122.0	
246-Trinitrotoluene	101.0	
Nitrobenzene	97.0	
34-dinitrotoluene	93.4	
26-dinitrotoluene	109.0	
24-dinitrotoluene	92.9	
4-Amino-26-dinitrotoluene	103.0	
2-Amino-46-dinitrotoluene	100.0	
2-Nitrotoluene	93.4	
4-Nitrotoluene	90.6	
3-Nitrotoluene	93.6	
PETN	113.0	
TOTAL	1927.9	

*HMM 03/24/10*

AVERAGE

✓ 101.5	ICV Limits 85-115%
	CRI Limits 70-130%
	CCV Limits 85-115%
No single analyte > +/- 60%	

*Jan  
3/24/10*

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312089.wiff

Analysis Date: 13-MAR-10 22:43

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
Tetryl	40	52.3	131	
m-Dinitrobenzene	40	44.3	111	
m-Nitrotoluene	40	40.4	101	
o-Nitrotoluene	40	36.7	92	
p-Nitrotoluene	40	35.4	89	
1,3,5-Trinitrobenzene	40	52.9	132	
2,4,6-Trinitrotoluene	40	47.1	118	
2,4-Dinitrotoluene	40	41.5	104	
2,6-Dinitrotoluene	40	29.9	75	
2-Amino-4,6-dinitrotoluene	40	38.4	96	
3,4-Dinitrotoluene	20	21.8	109	
4-Amino-2,6-dinitrotoluene	40	44.5	111	
DNX	40	47	117	
HMX	40	51.2	128	
MNX	40	46.6	117	
Nitrobenzene	40	38.9	97	
PETN	40	43.4	108	
RDX	40	44.2	111	
TNX	40	46.9	117	

Recovery Limits:

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

Other Target Analytes 70-130%

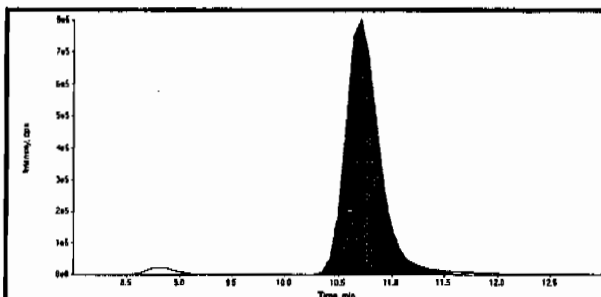
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

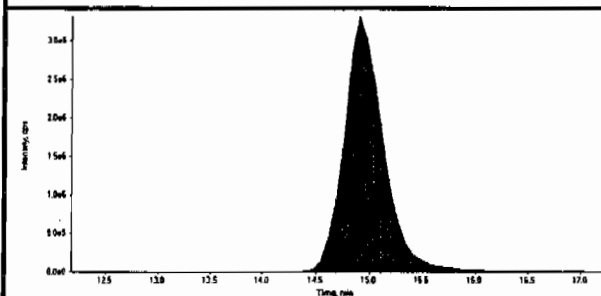
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

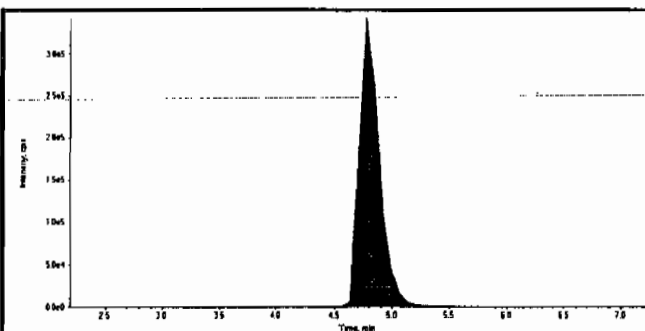
Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



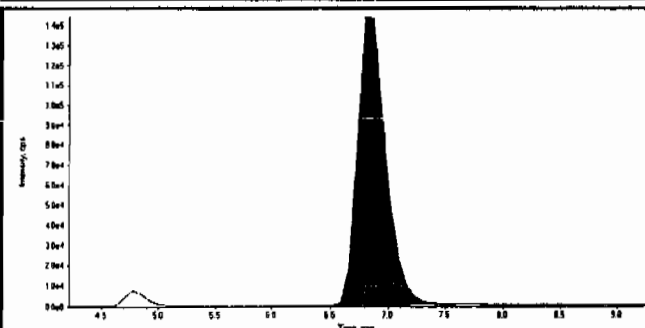
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	18000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	86100000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.20e+006
Manual Modification	No
Amount:	51.2 (ng/mL)
% Accuracy:	128.00



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.50e+006
Manual Modification	No
Amount:	44.2 (ng/mL)
% Accuracy:	111.00

*Handwritten:*  
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3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312089.wiff	<b>Acquisition Date</b>	3/13/2010 10:43:08 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.14
	Area Counts:	2.71e+006
	Manual Modification	No
	Amount:	46.9 (ng/mL)
	% Accuracy:	117.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.42e+006
	Manual Modification	No
	Amount:	47.0 (ng/mL)
	% Accuracy:	117.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.32e+006
	Manual Modification	No
	Amount:	46.6 (ng/mL)
	% Accuracy:	117.00

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.16e+007
	Manual Modification	No
	Amount:	52.9 (ng/mL)
	% Accuracy:	132.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312089.wiff	<b>Acquisition Date</b>	3/13/2010 10:43:08 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch/Dilution/Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	10.9
	<b>Area Counts:</b>	4.25e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	44.3 (ng/mL)
	<b>% Accuracy:</b>	111.00

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	10.9
	<b>Area Counts:</b>	6.50e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	52.3 (ng/mL)
	<b>% Accuracy:</b>	131.00

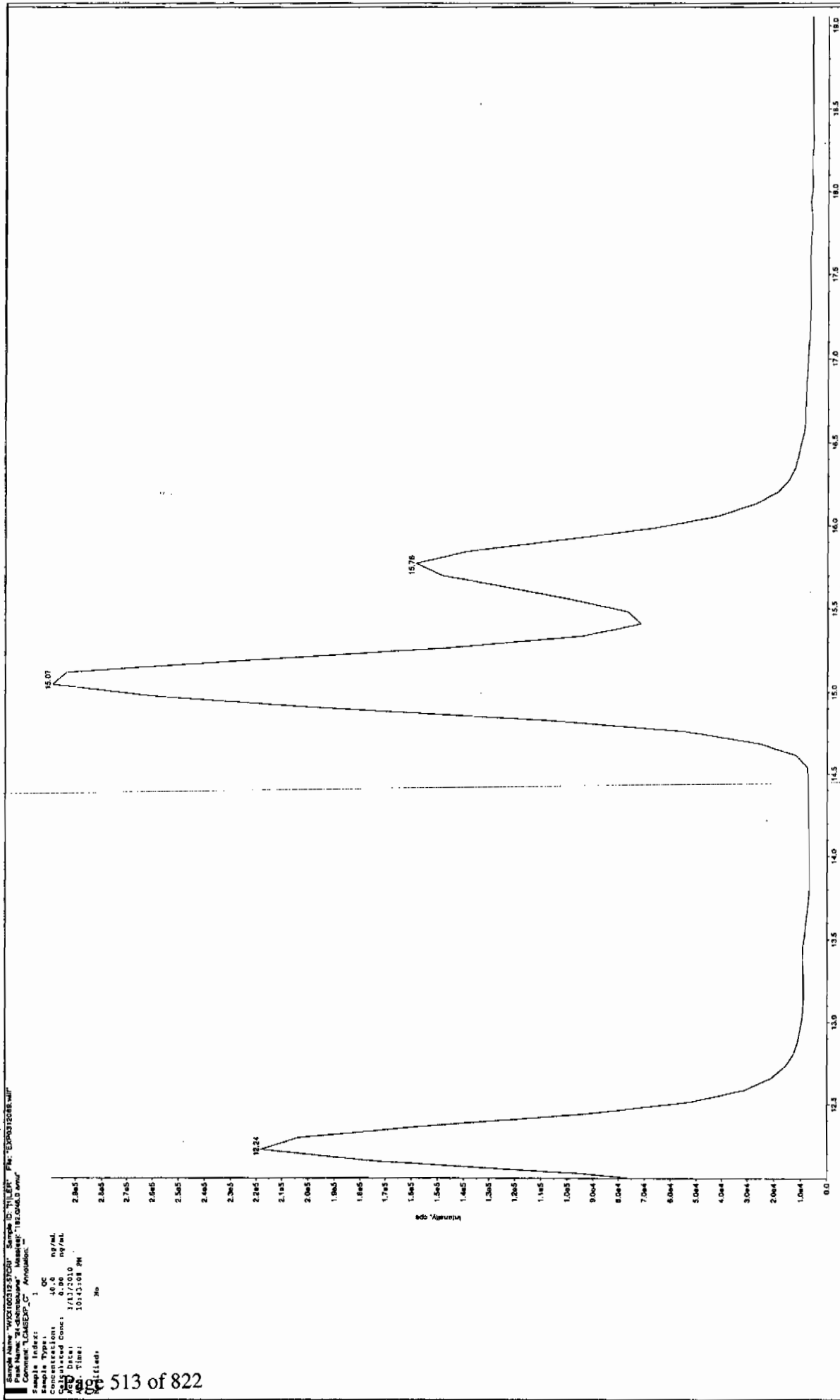
  

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.3
	<b>Area Counts:</b>	1.90e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	47.1 (ng/mL)
	<b>% Accuracy:</b>	118.00

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	12.0
	<b>Area Counts:</b>	2.12e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	38.9 (ng/mL)
	<b>% Accuracy:</b>	97.10

Before day 3/24/10



Sample Name: 1002100121012 Sample ID: 1002100121012  
 Comment: LCMSEXP\_C Annotation: 1002100121012  
 Sample Type: QC  
 Concentration: 10.00 ng/mL  
 Calculated Conc: 0.00 ng/mL  
 Date: 3/13/2010  
 Time: 10:43:08 PM  
 Replicate: 1  
 Inj. Volume: 10.00 µL  
 Inj. Pressure: 10.00 psi  
 Inj. Temperature: 10.00 °C  
 Inj. Time: 10.00 min  
 Inj. Flow: 10.00 mL/min  
 Inj. Rate: 10.00 µL/min  
 Inj. Volume: 10.00 µL  
 Inj. Pressure: 10.00 psi  
 Inj. Temperature: 10.00 °C  
 Inj. Time: 10.00 min  
 Inj. Flow: 10.00 mL/min  
 Inj. Rate: 10.00 µL/min

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312089.wiff	<b>Acquisition Date</b>	3/13/2010 10:43:08 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	4.64e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	21.8 (ng/mL)
	<b>% Accuracy:</b>	109.00

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	15.0
	<b>Area Counts:</b>	7.37e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	29.9 (ng/mL)
	<b>% Accuracy:</b>	74.70

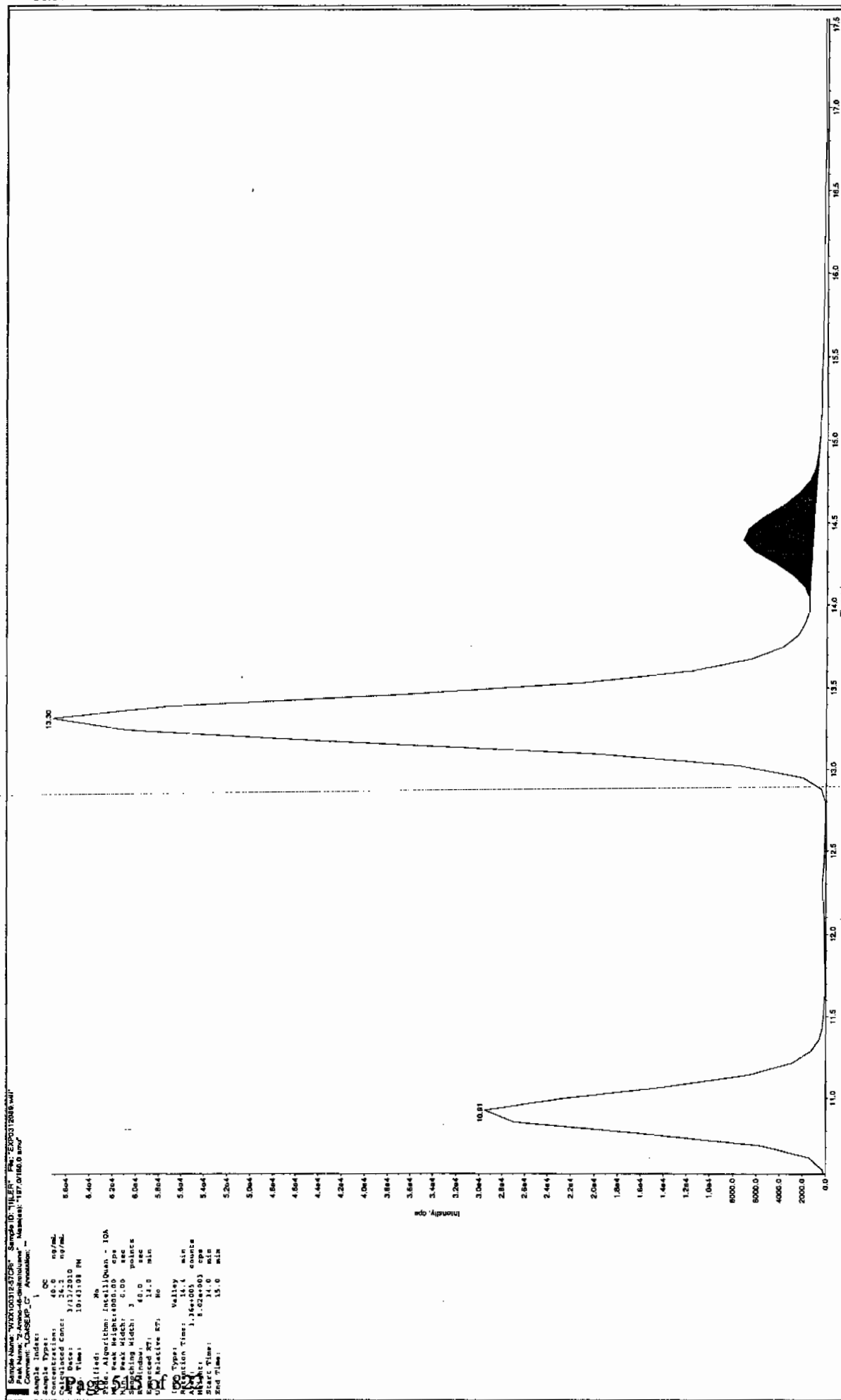
  

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.8
	<b>Area Counts:</b>	4.21e+006
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	41.5 (ng/mL)
	<b>% Accuracy:</b>	104.00

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.3
	<b>Area Counts:</b>	7.14e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	44.5 (ng/mL)
	<b>% Accuracy:</b>	111.00

Before Run 3b4/10



Sample Name: "V0205115001" Sample ID: "V0205115001" Run: "V0205115001.wif"

Peak Name: "2-Amino-2-deoxyribose" Mass: 147.07600 amu

Comment: "CONSERP\_C" Annotation: "

Sample Index: 1

Sample Type: GC

Concentration: 40.0 ng/mL

Calculated Conc: 24.2 ng/mL

Acq Date: 3/17/2010

Acq Time: 10:43:08 PM

File Name: 1

File Type: No

File Name: 1

File Type: No

File Name: 1

File Type: No

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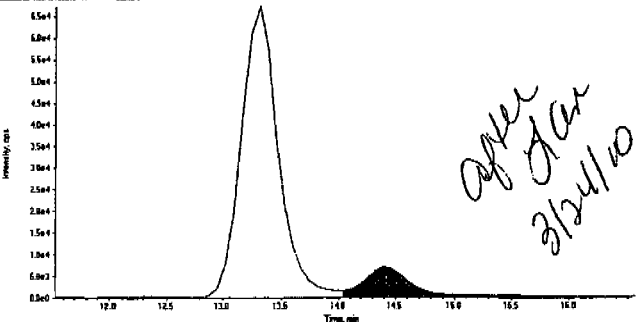


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

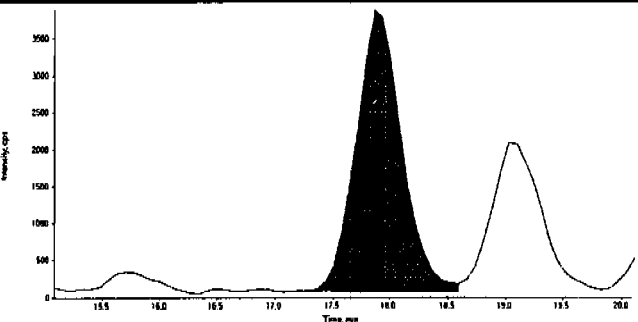
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312089.wiff	<b>Acquisition Date</b>	3/13/2010 10:43:08 PM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

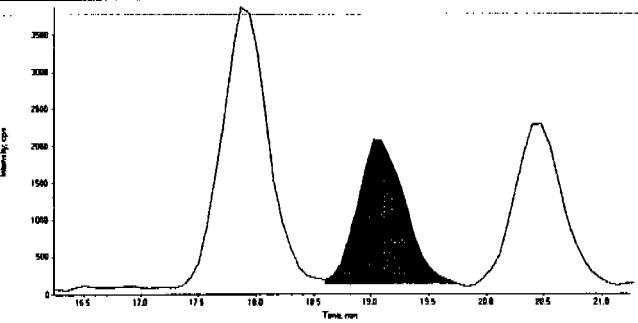
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.4
	<b>Area Counts:</b>	2.00e+005
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	38.4 (ng/mL)
	<b>% Accuracy:</b>	96.10

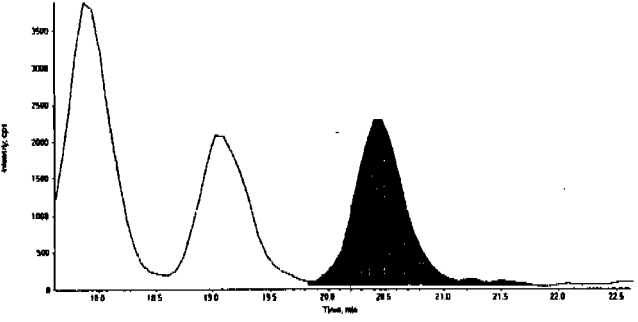
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.9
	<b>Area Counts:</b>	1.07e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	36.7 (ng/mL)
	<b>% Accuracy:</b>	91.80

	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	19.0
	<b>Area Counts:</b>	5.68e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	35.4 (ng/mL)
	<b>% Accuracy:</b>	88.50

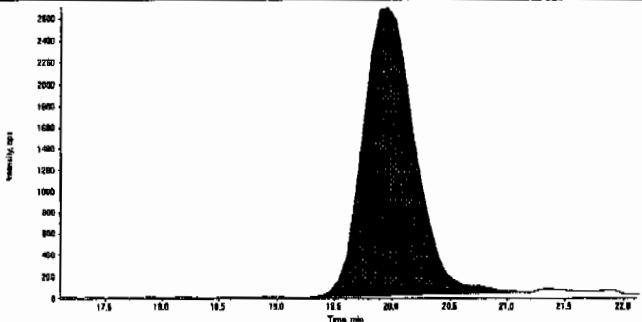
	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.5
	<b>Area Counts:</b>	7.22e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	40.4 (ng/mL)
	<b>% Accuracy:</b>	101.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312089.wiff	Acquisition Date	3/13/2010 10:43:08 PM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control

	Compound Name:	PETN (361.1/62.0 amu)
	Expected RT:	19.6
	Actual RT:	20.0
	Area Counts:	8.49e+004
	Manual Modification	No
	Amount:	43.4 (ng/mL)
	% Accuracy:	108.00

# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/13/10  
 Time of Injection 2243  
 Standard Number WXX100312-57CRI  
 Data File EXP0312089a

HMX	128.0
RDX	111.0
TNX	117.0
DNX	117.0
MNX	117.0
135-Trinitrobenzene	132.0
13-Dinitrobenzene	111.0
Tetryl	131.0
246-Trinitrotoluene	118.0
Nitrobenzene	97.1
34-dinitrotoluene	109.0
26-dinitrotoluene	74.7
24-dinitrotoluene	104.0
4-Amino-26-dinitrotoluene	111.0
2-Amino-46-dinitrotoluene	96.1
2-Nitrotoluene	91.8
4-Nitrotoluene	88.5
3-Nitrotoluene	101.0
PETN	108.0
TOTAL	2063.2

AVERAGE

✓ 108.6	ICV Limits 85-115%
	CRI Limits 70-130%
	CCV Limits 85-115%
No single analyte > +/- 60%	

*San*  
*3/24/10*

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312099.wiff

Analysis Date: 14-MAR-10 04:07

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	575	96	
2,6-Dinitrotoluene	600	654	109	
2-Amino-4,6-dinitrotoluene	600	661	110	
3,4-Dinitrotoluene	300	291	97	
4-Amino-2,6-dinitrotoluene	600	604	101	
DNX	600	599	100	
HMX	600	568	95	
MX	600	639	106	
Nitrobenzene	600	598	100	
PETN	600	665	111	
RDX	600	577	96	
TNX	600	624	104	
Tetryl	600	711	118	
m-Dinitrobenzene	600	579	97	
m-Nitrotoluene	600	569	95	
o-Nitrotoluene	600	546	91	
p-Nitrotoluene	600	506	84	
1,3,5-Trinitrobenzene	600	611	102	
2,4,6-Trinitrotoluene	600	594	99	

Recovery Limits:

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

Other Target Analytes 80-120%

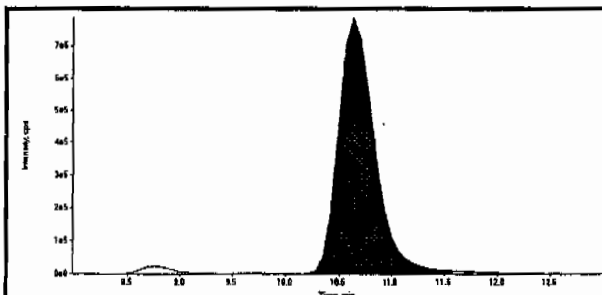
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

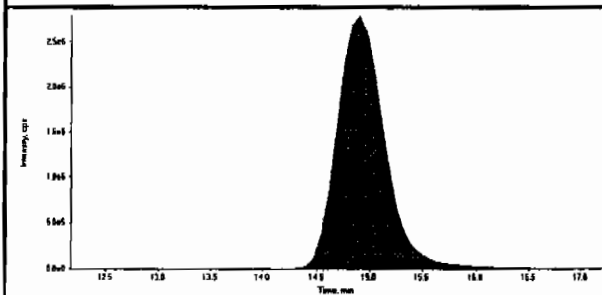
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



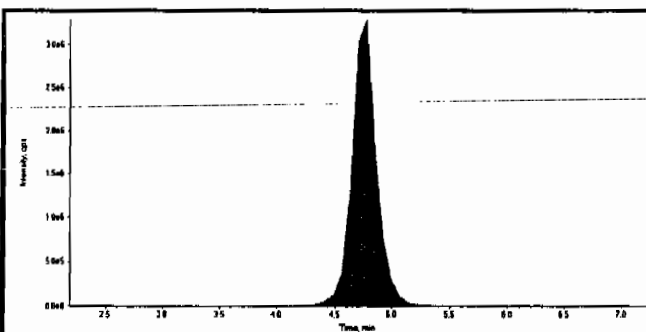
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19000000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

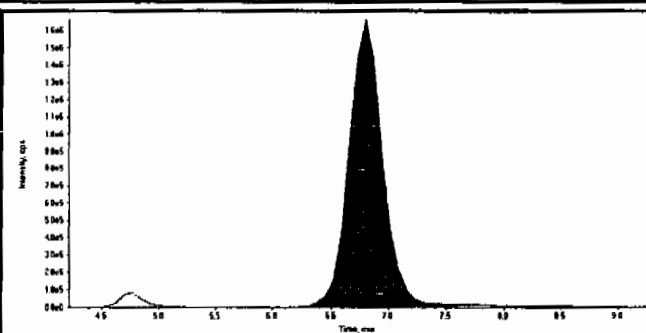


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	87500000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	4.91e+007
Manual Modification	No
Amount:	568. (ng/mL)
% Accuracy:	94.70



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	3.44e+007
Manual Modification	No
Amount:	577. (ng/mL)
% Accuracy:	96.10

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#1111  
03/24/10  
OK  
3/24/10

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312099.wiff	<b>Acquisition Date</b>	3/14/2010 4:07:36 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	3.81e+007
	Manual Modification	No
	Amount:	624. (ng/mL)
	% Accuracy:	104.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	3.25e+007
	Manual Modification	No
	Amount:	599. (ng/mL)
	% Accuracy:	99.80

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.08
	Area Counts:	1.91e+007
	Manual Modification	No
	Amount:	639. (ng/mL)
	% Accuracy:	106.00

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.41e+008
	Manual Modification	No
	Amount:	611. (ng/mL)
	% Accuracy:	102.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312099.wiff	<b>Acquisition Date</b>	3/14/2010 4:07:36 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	5.87e+007
	Manual Modification	No
	Amount:	579. (ng/mL)
	% Accuracy:	96.60

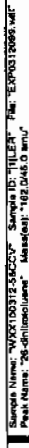
	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	9.31e+007
	Manual Modification	No
	Amount:	711. (ng/mL)
	% Accuracy:	118.00

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	2.44e+008
	Manual Modification	No
	Amount:	594. (ng/mL)
	% Accuracy:	99.10

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	3.44e+006
	Manual Modification	No
	Amount:	598. (ng/mL)
	% Accuracy:	99.60





Before Jan 31/2010

Sample Name: "XXXX00312562CV" Sample ID: "TILERT" File: "EXP0312099.vdf"

Peak Name: "24-dichlorobenz" Mass(es): "182.046.0 amu"

Conversion: "COMEXP\_C" Annotation: "

Sample Index: 1

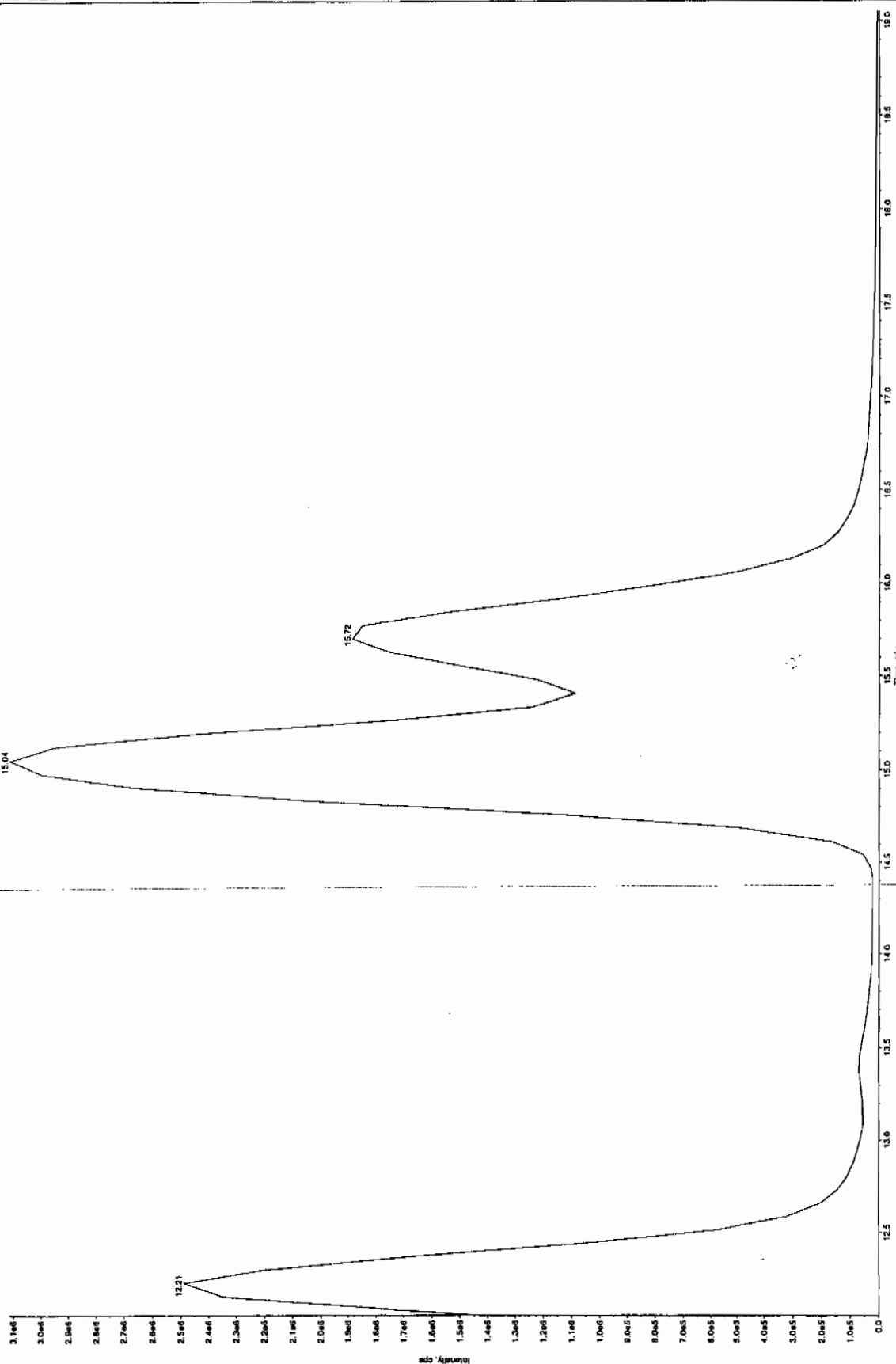
Concentration: 600 ng/mL

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 4:07:11 AM

Identified: No



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312099.wiff	<b>Acquisition Date</b>	3/14/2010 4:07:36 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch/Dilution/Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	12.0
	<b>Actual RT:</b>	12.2
	<b>Area Counts:</b>	6.27e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	291. (ng/mL)
	<b>% Accuracy:</b>	96.90

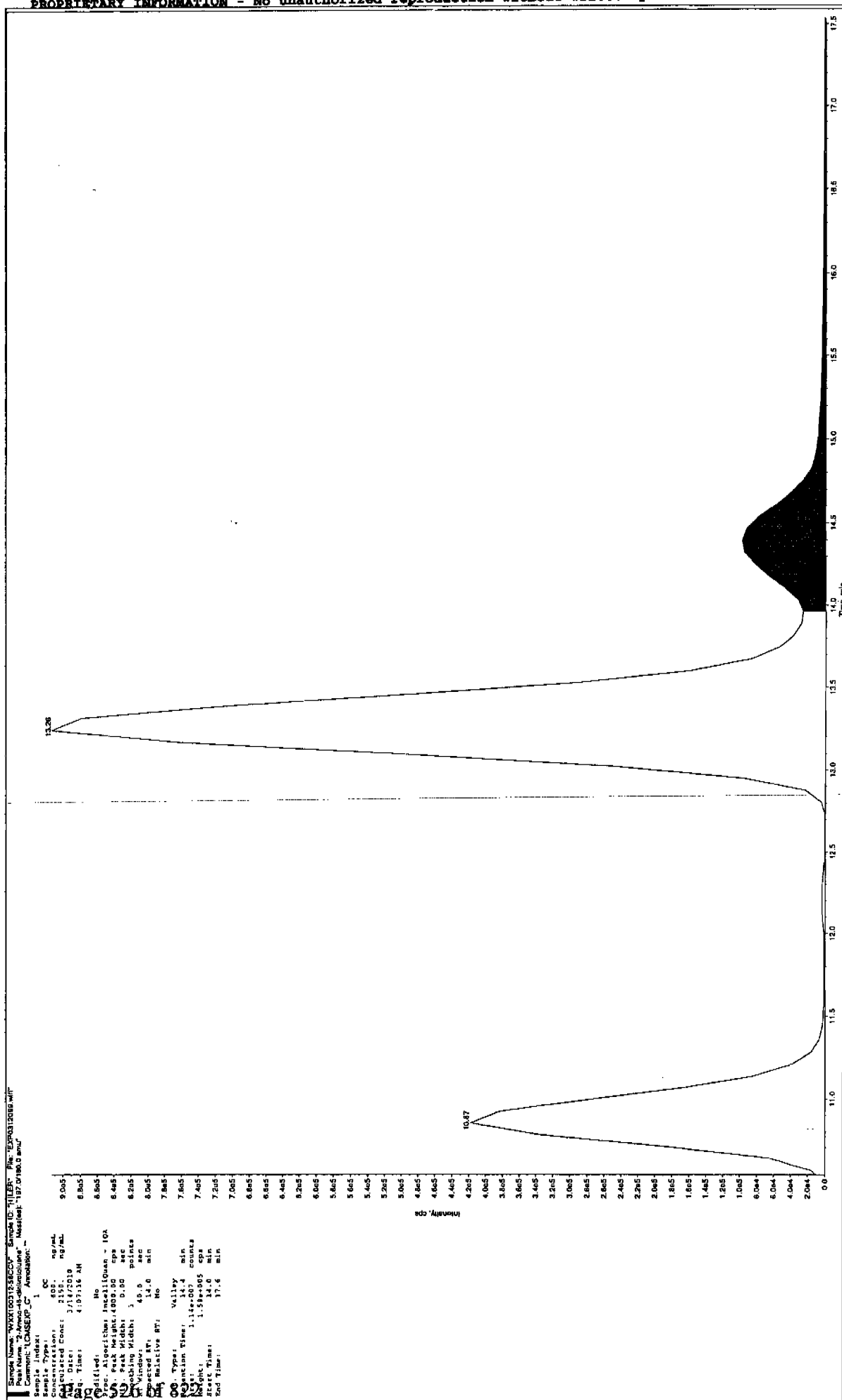
	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	14.8
	<b>Actual RT:</b>	15.0
	<b>Area Counts:</b>	9.25e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	654. (ng/mL)
	<b>% Accuracy:</b>	109.00

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	<b>Expected RT:</b>	15.6
	<b>Actual RT:</b>	15.7
	<b>Area Counts:</b>	5.92e+007
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	575. (ng/mL)
	<b>% Accuracy:</b>	95.80

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.2
	<b>Area Counts:</b>	9.84e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	604. (ng/mL)
	<b>% Accuracy:</b>	101.00

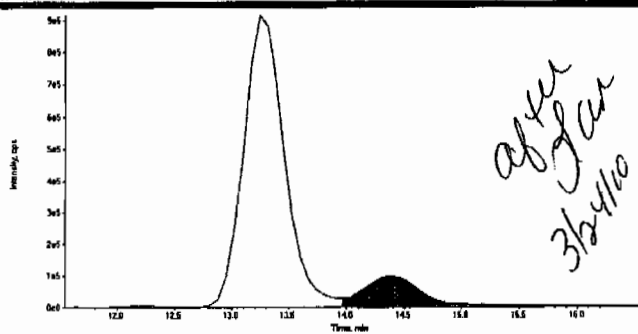


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

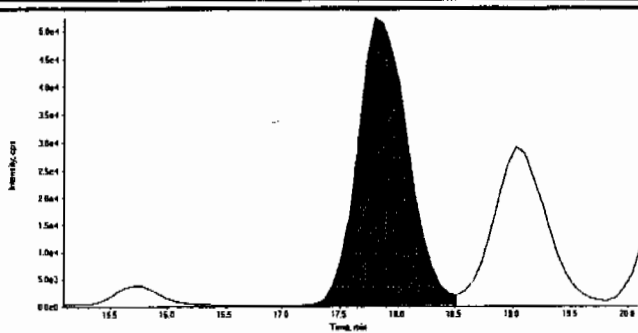
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312099.wiff	<b>Acquisition Date</b>	3/14/2010 4:07:36 AM
<b>Sample Name</b>	WXX100312-56CCV	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

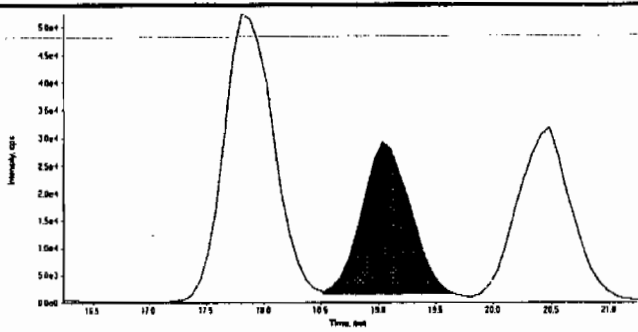
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.4
	<b>Area Counts:</b>	3.50e+006
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	661. (ng/mL)
	<b>% Accuracy:</b>	110.00

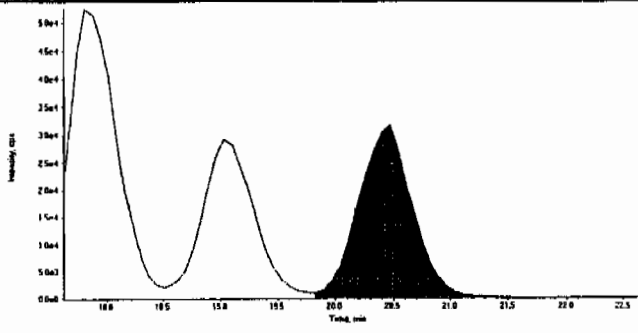
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.8
	<b>Area Counts:</b>	1.62e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	546. (ng/mL)
	<b>% Accuracy:</b>	91.00

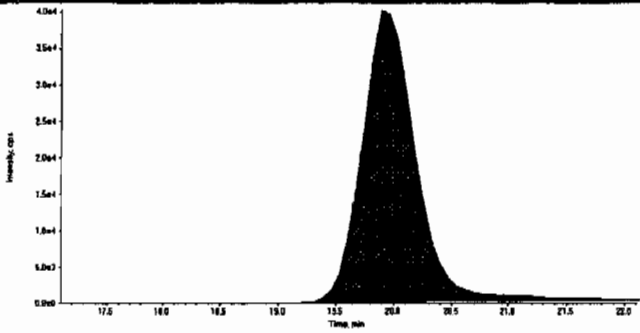
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	19.0
	<b>Area Counts:</b>	8.25e+005
	<b>Manual Modification</b>	No
	<b>Amount:</b>	506. (ng/mL)
	<b>% Accuracy:</b>	84.30

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.5
	<b>Area Counts:</b>	1.03e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	569. (ng/mL)
	<b>% Accuracy:</b>	94.90

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312099.wiff	Acquisition Date	3/14/2010 4:07:36 AM
Sample Name	WXX100312-56CCV	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	1.32e+006
		Manual Modification	No
		Amount:	665. (ng/mL)
		% Accuracy:	111.00

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/14/10  
 Time of Injection 0407  
 Standard Number WXX100312-56CCV  
 Data File EXP0312099a

HMX	94.7	✓
RDX	96.1	✓
TNX	104.0	
DNX	99.8	
MNX	106.0	
135-Trinitrobenzene	102.0	
13-Dinitrobenzene	96.6	
Tetryl	118.0	
246-Trinitrotoluene	99.1	
Nitrobenzene	99.6	
34-dinitrotoluene	96.9	
26-dinitrotoluene	109.0	
24-dinitrotoluene	95.8	
4-Amino-26-dinitrotoluene	101.0	
2-Amino-46-dinitrotoluene	110.0	
2-Nitrotoluene	91.0	
4-Nitrotoluene	84.3	
3-Nitrotoluene	94.9	
PETN	111.0	
	✓	
TOTAL	1909.8	<i>Ann 03/24/10</i>
		ICV Limits 85-115%
AVERAGE	✓ 100.5	CRI Limits 70-130%
		CCV Limits 85-115%
		No single analyte > +/- 60%

*Law*  
*3/24/10*

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312101.wiff

Analysis Date: 14-MAR-10 05:00

LCMSMS ID: 1189

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	48.8	122	
2,4,6-Trinitrotoluene	40	50.2	126	
2,4-Dinitrotoluene	40	38.4	96	
2,6-Dinitrotoluene	40	32.7	82	
2-Amino-4,6-dinitrotoluene	40	35	88	
3,4-Dinitrotoluene	20	22.3	111	
4-Amino-2,6-dinitrotoluene	40	42.2	106	
DNX	40	40.9	102	
HMX	40	39.4	99	
MNX	40	37.1	93	
Nitrobenzene	40	37.1	93	
PETN	40	36.9	92	
RDX	40	36.5	91	
TNX	40	40	100	
Tetryl	40	43.2	108	
m-Dinitrobenzene	40	45.5	114	
m-Nitrotoluene	40	31.4	78	
o-Nitrotoluene	40	30	75	
p-Nitrotoluene	40	24.5	61	

Recovery Limits:

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

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

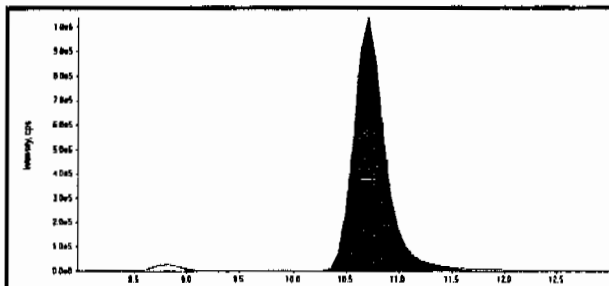
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

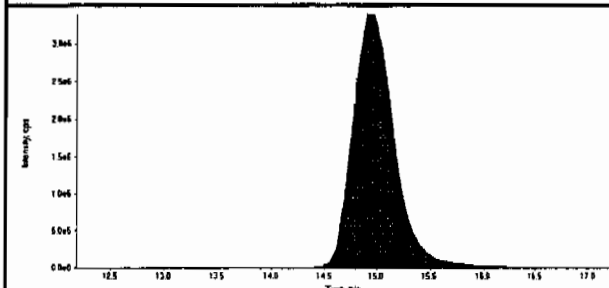
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

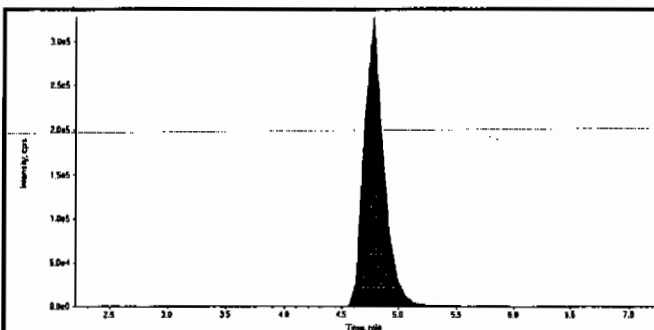
Data File	EXP0312101.wiff	Acquisition Date	3/14/2010 5:00:24 AM
Sample Name	WXX100312-57CRI	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	1 LER	Result Table	031210.rdb
Procedure Code	LCMSEXP_C	Sample Type	Quality Control



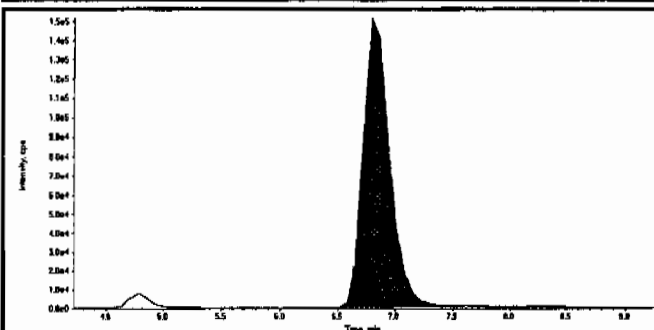
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.70
Area Counts:	21800000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	95300000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.92e+006
Manual Modification	No
Amount:	39.4 (ng/mL)
% Accuracy:	98.60



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.50e+006
Manual Modification	No
Amount:	36.5 (ng/mL)
% Accuracy:	91.30

*LER*  
*3/24/10*  
*4nm*  
*03/24/10*



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312101.wiff	<b>Acquisition Date</b>	3/14/2010 5:00:24 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	5.06
	Area Counts:	2.81e+006
	Manual Modification	No
	Amount:	40.0 (ng/mL)
	% Accuracy:	100.00

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	5.43
	Area Counts:	2.55e+006
	Manual Modification	No
	Amount:	40.9 (ng/mL)
	% Accuracy:	102.00

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	6.15
	Area Counts:	1.28e+006
	Manual Modification	No
	Amount:	37.1 (ng/mL)
	% Accuracy:	92.70

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.12
	Area Counts:	1.30e+007
	Manual Modification	No
	Amount:	48.8 (ng/mL)
	% Accuracy:	122.00

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312101.wiff	<b>Acquisition Date</b>	3/14/2010 5:00:24 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.9
	Area Counts:	5.31e+006
	Manual Modification	No
	Amount:	45.5 (ng/mL)
	% Accuracy:	114.00

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	6.51e+006
	Manual Modification	No
	Amount:	43.2 (ng/mL)
	% Accuracy:	108.00

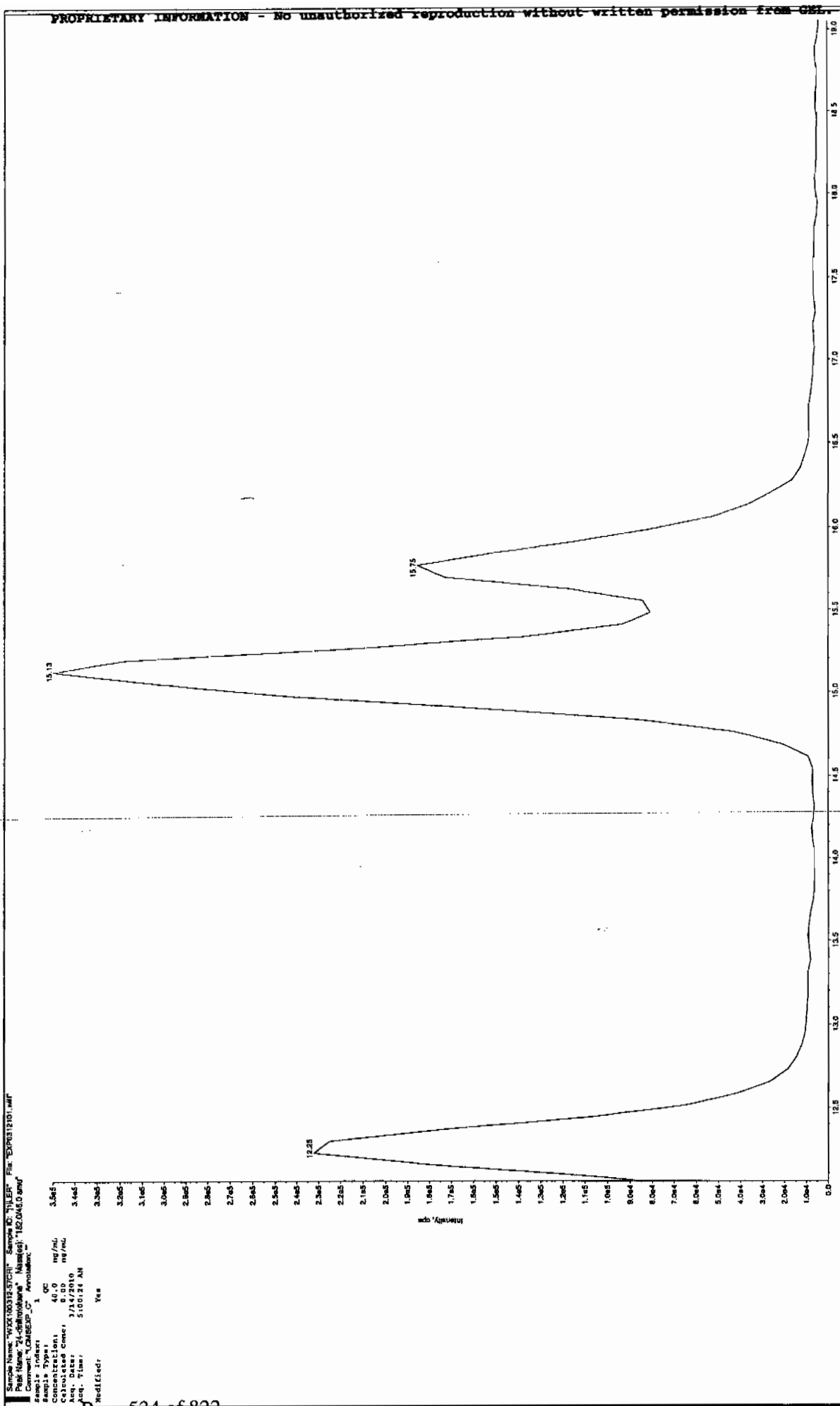
  

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	2.24e+007
	Manual Modification	No
	Amount:	50.2 (ng/mL)
	% Accuracy:	126.00

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.45e+005
	Manual Modification	No
	Amount:	37.1 (ng/mL)
	% Accuracy:	92.70

Before Scan 3124/10



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312101.wiff	<b>Acquisition Date</b>	3/14/2010 5:00:24 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

	<b>Compound Name:</b>	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.23e+006
	Manual Modification	No
	Amount:	22.3 (ng/mL)
	% Accuracy:	111.00

	<b>Compound Name:</b>	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.1
	Area Counts:	8.57e+006
	Manual Modification	No
	Amount:	32.7 (ng/mL)
	% Accuracy:	81.80

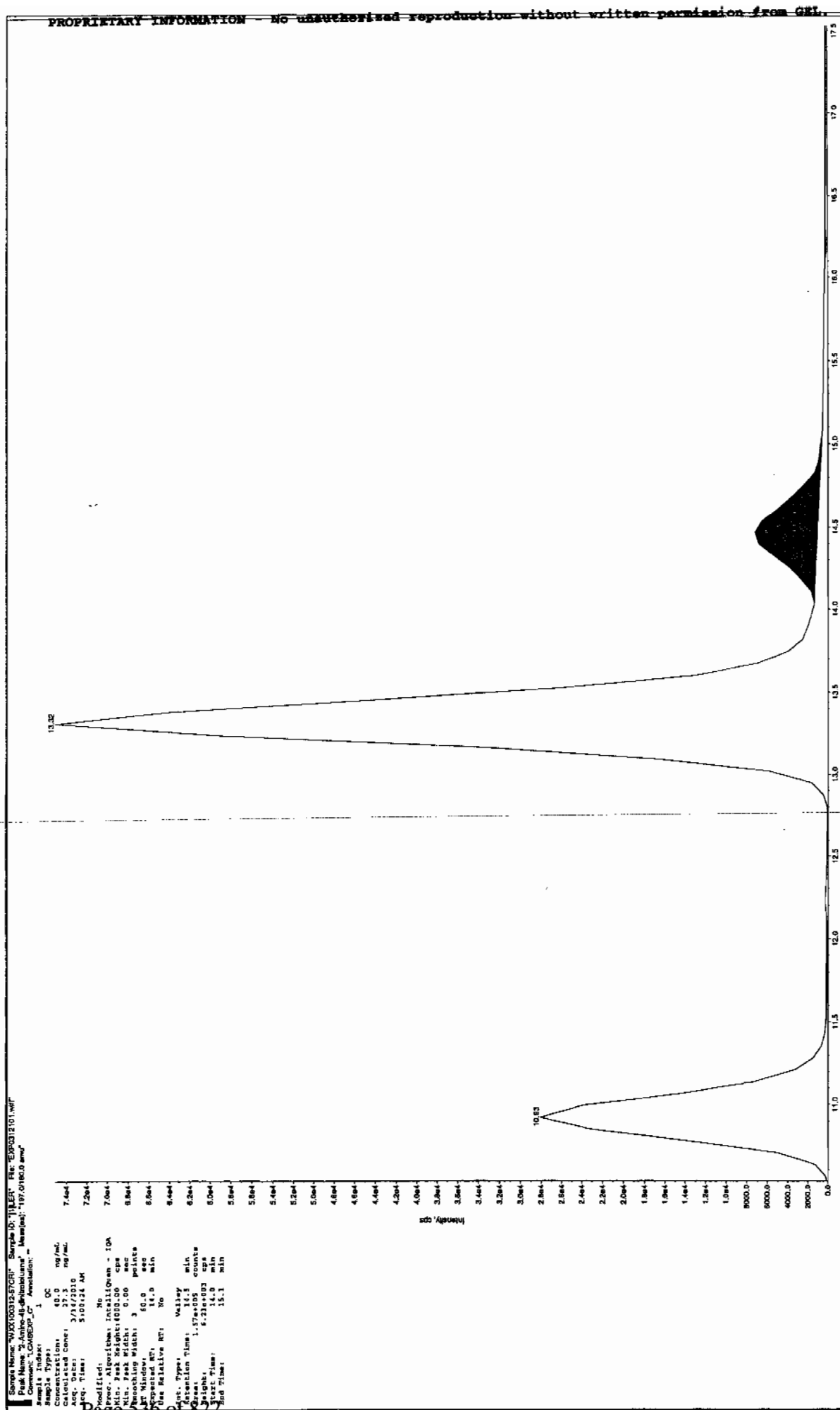
  

	<b>Compound Name:</b>	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.8
	Actual RT:	15.8
	Area Counts:	4.31e+006
	Manual Modification	Yes
	Amount:	38.4 (ng/mL)
	% Accuracy:	96.10

	<b>Compound Name:</b>	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	7.50e+006
	Manual Modification	No
	Amount:	42.2 (ng/mL)
	% Accuracy:	106.00

Before Jan 3/24/10

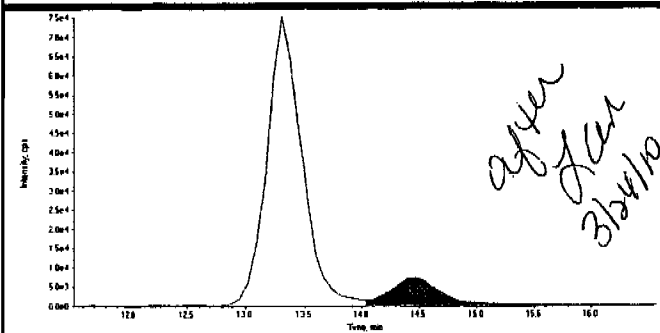


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GEL SOP GL-OA-E-056, Method 8321A-Modified

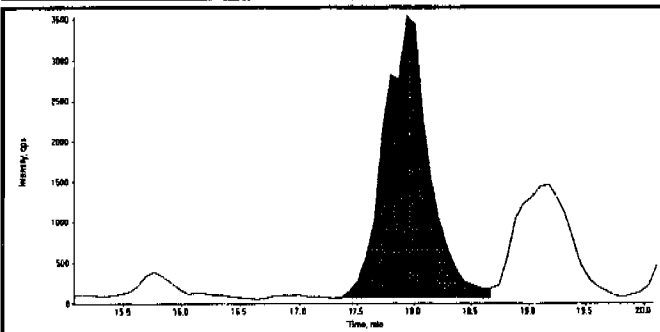
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312101.wiff	<b>Acquisition Date</b>	3/14/2010 5:00:24 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control

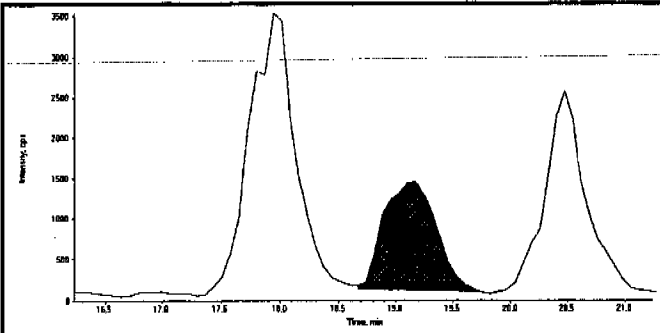
  

	<b>Compound Name:</b>	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	<b>Expected RT:</b>	14.0
	<b>Actual RT:</b>	14.5
	<b>Area Counts:</b>	2.02e+005
	<b>Manual Modification</b>	Yes
	<b>Amount:</b>	35.0 (ng/mL)
	<b>% Accuracy:</b>	87.50

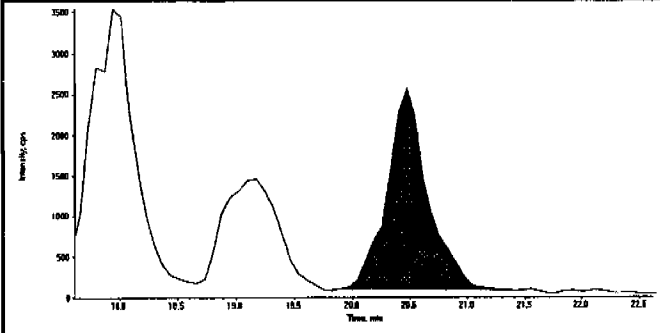
  

	<b>Compound Name:</b>	2-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	17.6
	<b>Actual RT:</b>	17.9
	<b>Area Counts:</b>	9.68e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	30.0 (ng/mL)
	<b>% Accuracy:</b>	74.90

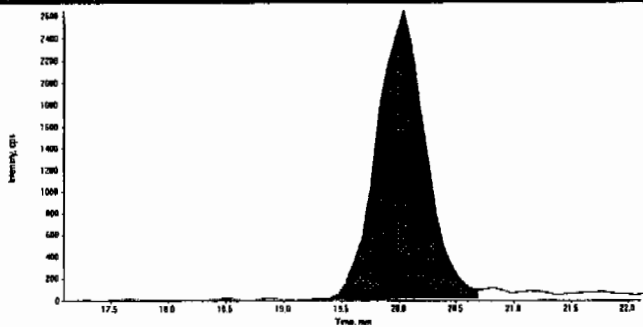
	<b>Compound Name:</b>	4-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	18.7
	<b>Actual RT:</b>	19.2
	<b>Area Counts:</b>	4.35e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	24.5 (ng/mL)
	<b>% Accuracy:</b>	61.20

	<b>Compound Name:</b>	3-Nitrotoluene (137.0/46.0 amu)
	<b>Expected RT:</b>	20.1
	<b>Actual RT:</b>	20.5
	<b>Area Counts:</b>	6.20e+004
	<b>Manual Modification</b>	No
	<b>Amount:</b>	31.4 (ng/mL)
	<b>% Accuracy:</b>	78.40

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312101.wiff	<b>Acquisition Date</b>	3/14/2010 5:00:24 AM
<b>Sample Name</b>	WXX100312-57CRI	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	1 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCMSEXP_C	<b>Sample Type</b>	Quality Control
		<b>Compound Name:</b>	PETN (361.1/62.0 amu)
		<b>Expected RT:</b>	19.6
		<b>Actual RT:</b>	20.0
		<b>Area Counts:</b>	7.98e+004
		<b>Manual Modification</b>	No
		<b>Amount:</b>	36.9 (ng/mL)
		<b>% Accuracy:</b>	92.10

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis 03/14/10  
 Time of Injection 0500  
 Standard Number WXX100312-57CRI  
 Data File EXP0312101a

HMX	98.6
RDX	91.3
TNX	100.0
DNX	102.0
MNX	92.7
135-Trinitrobenzene	122.0
13-Dinitrobenzene	114.0
Tetryl	108.0
246-Trinitrotoluene	126.0
Nitrobenzene	92.7
34-dinitrotoluene	111.0
26-dinitrotoluene	81.8
24-dinitrotoluene	96.1
4-Amino-26-dinitrotoluene	106.0
2-Amino-46-dinitrotoluene	87.5
2-Nitrotoluene	74.9
4-Nitrotoluene	61.2
3-Nitrotoluene	78.4
PETN	92.1

TOTAL

1836.3

*4/11/10 03/24/10*

AVERAGE

✓ 96.6

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

*San*  
*3/24/10*



7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010013.wiff

Analysis Date: 01-MAR-10 12:11

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.6	100	
2,6-Diamino-4-nitrotoluene	100	99.3	99	
3,4-Dinitrotoluene	50	52.9	106	
3,5-Dinitroaniline	100	100	100	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	101	101	

Recovery Limits:

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

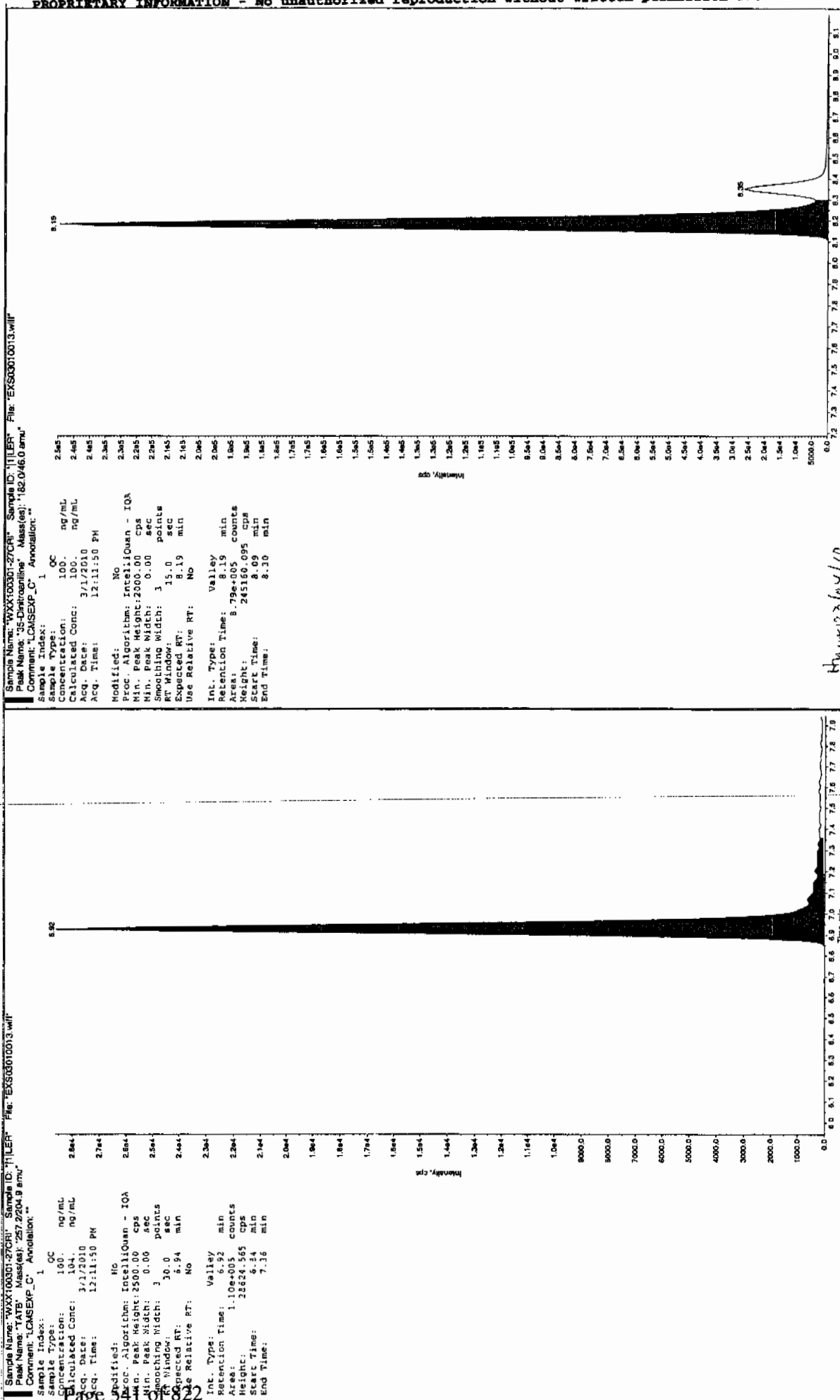
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

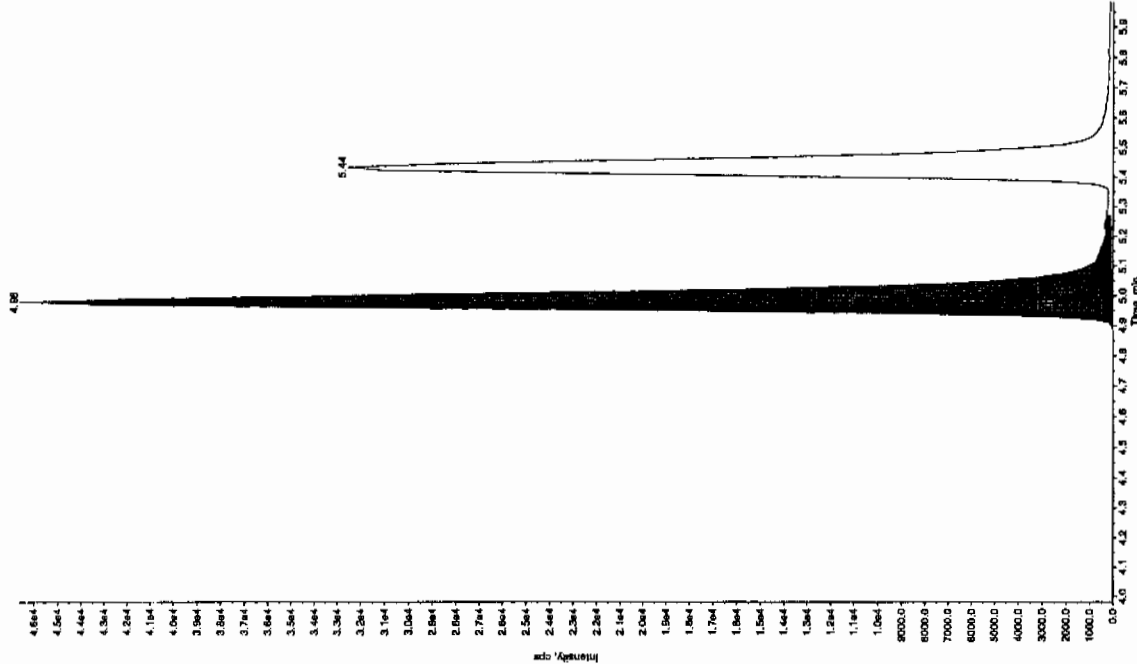
\* Value outside of Recovery Limits

Run 3/3/10



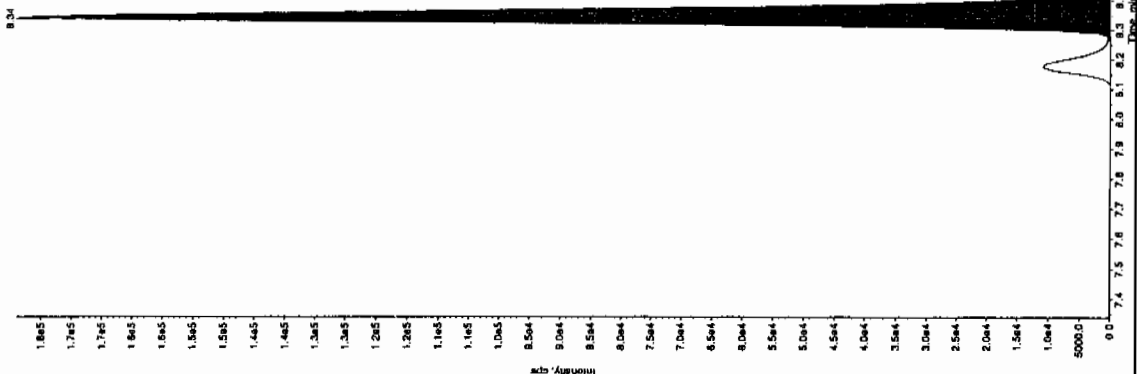
Sample Name: "WXX100301-270R" Sample ID: "11LER" File: "EXS03010013.wit"  
 Peak Name: "25-Diamino-4-nitrofluorene" Mass(es): "166.0463.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

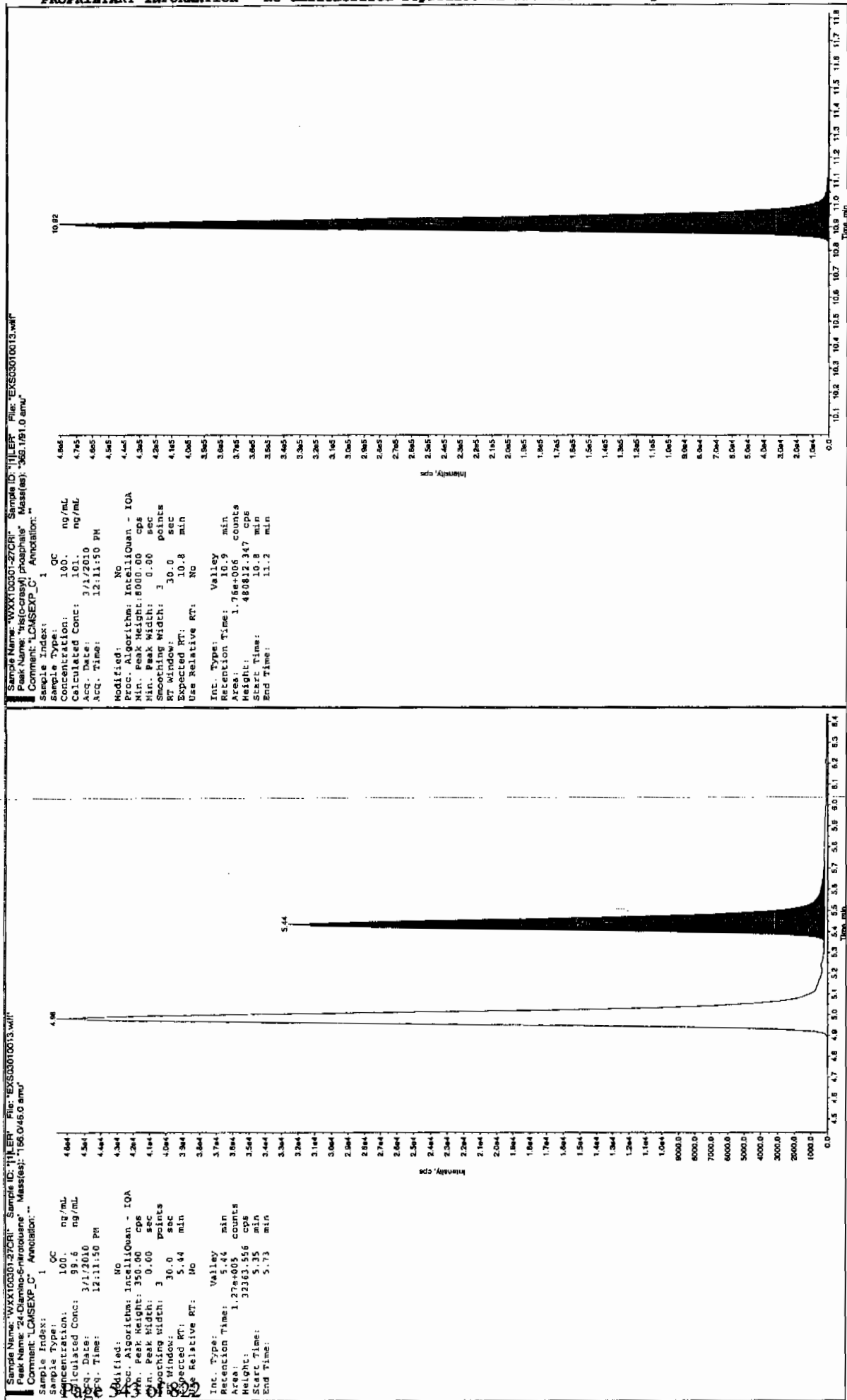
Sample Index: 1  
 Sample Type: QC  
 Concentration: 100.0 ng/mL  
 Calculated Conc: 99.3 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 12:11:50 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.0 cps  
 Min. Peak Width: 3.00 sec  
 Smoothing Width: 3.00 points  
 RT Window: 30.0 sec  
 Expected RT: 4.98 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.98 min  
 Area: 1.91e+005 counts  
 Height: 46581.150 cps  
 Start Time: 4.87 min  
 End Time: 5.27 min



Sample Name: "WXX100301-270R" Sample ID: "11LER" File: "EXS03010013.wit"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1451.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 50.0 ng/mL  
 Calculated Conc: 52.9 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 12:11:50 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 1450.00 cps  
 Min. Peak Width: 0.60 sec  
 Smoothing Width: 3.00 points  
 RT Window: 15.0 sec  
 Expected RT: 8.34 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.34 min  
 Area: 6.10e+005 counts  
 Height: 178867.096 cps  
 Start Time: 8.27 min  
 End Time: 8.66 min





7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010024.wiff

Analysis Date: 01-MAR-10 15:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	495	99	
2,6-Diamino-4-nitrotoluene	500	499	100	
3,4-Dinitrotoluene	250	229	92	
3,5-Dinitroaniline	500	513	103	
TATB	500	498	100	
tris(o-cresyl) phosphate	500	500	100	

Recovery Limits:

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

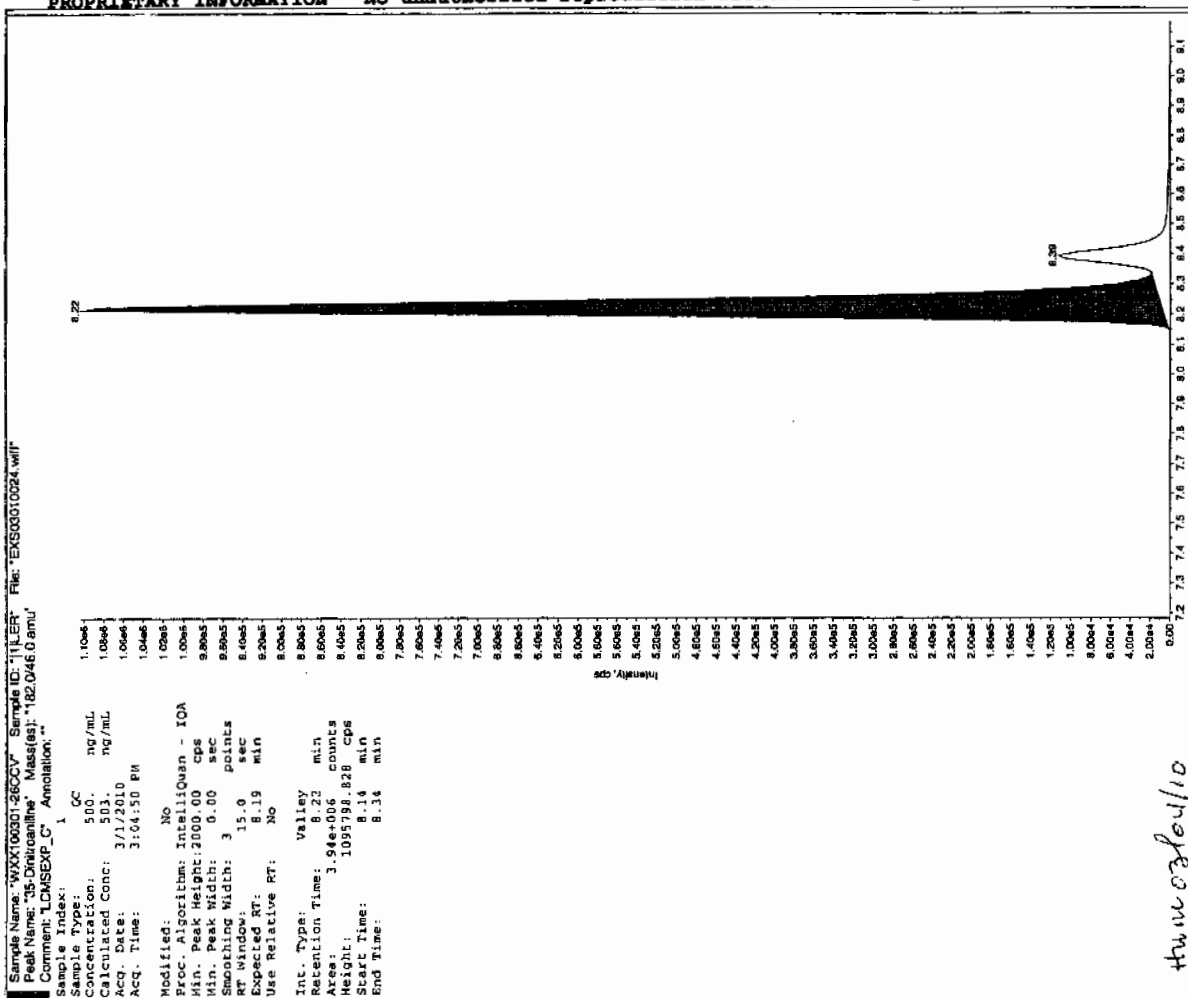
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

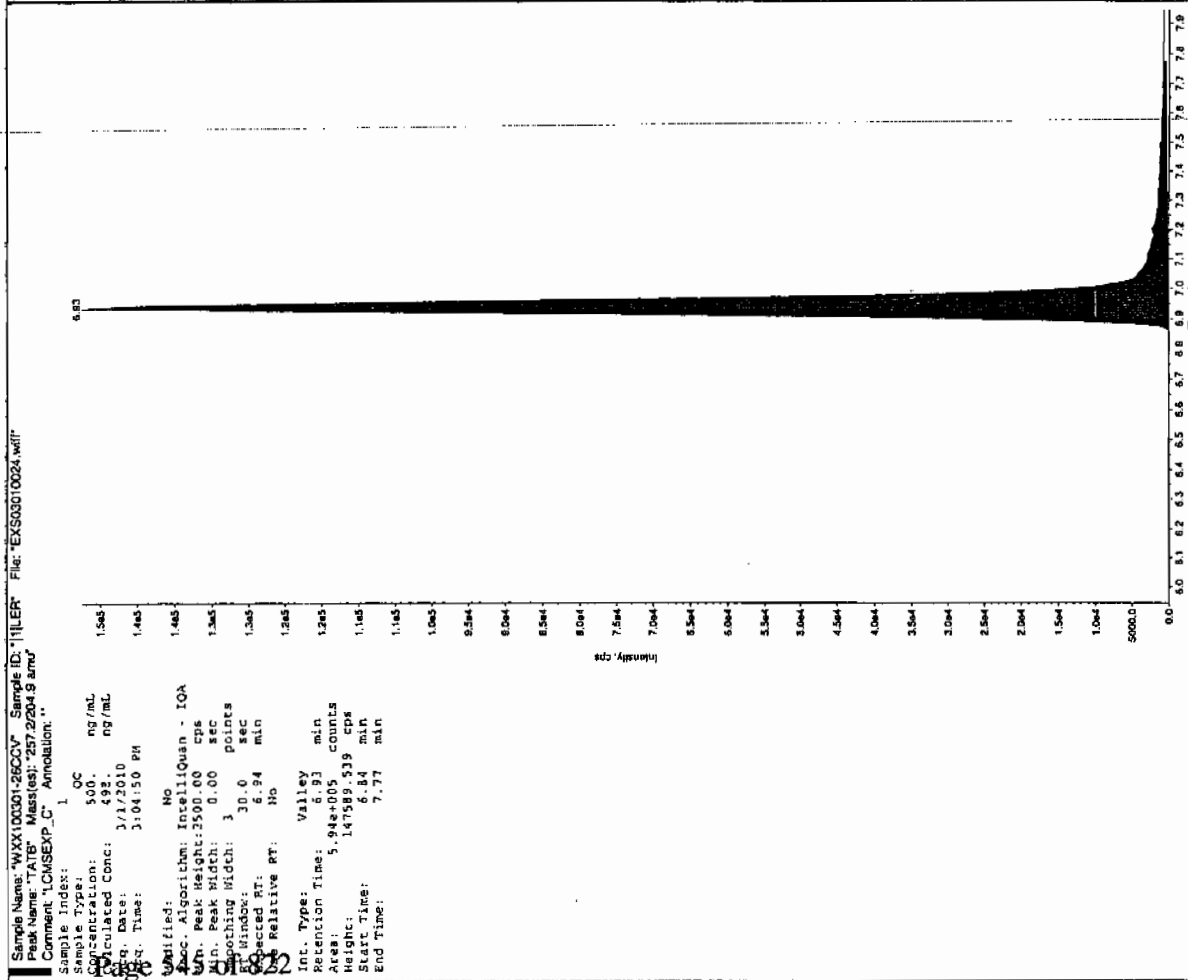
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 3/3/10

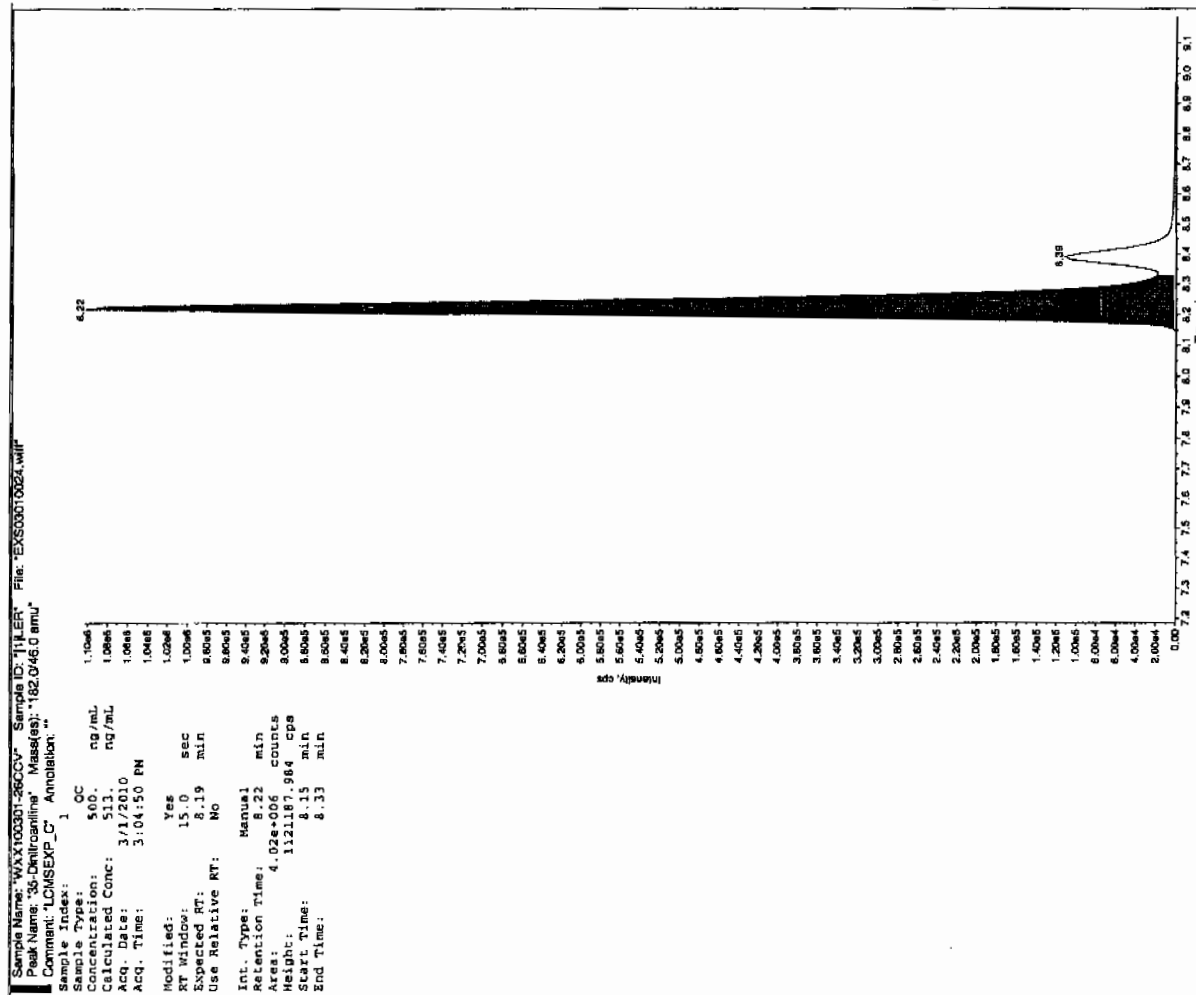
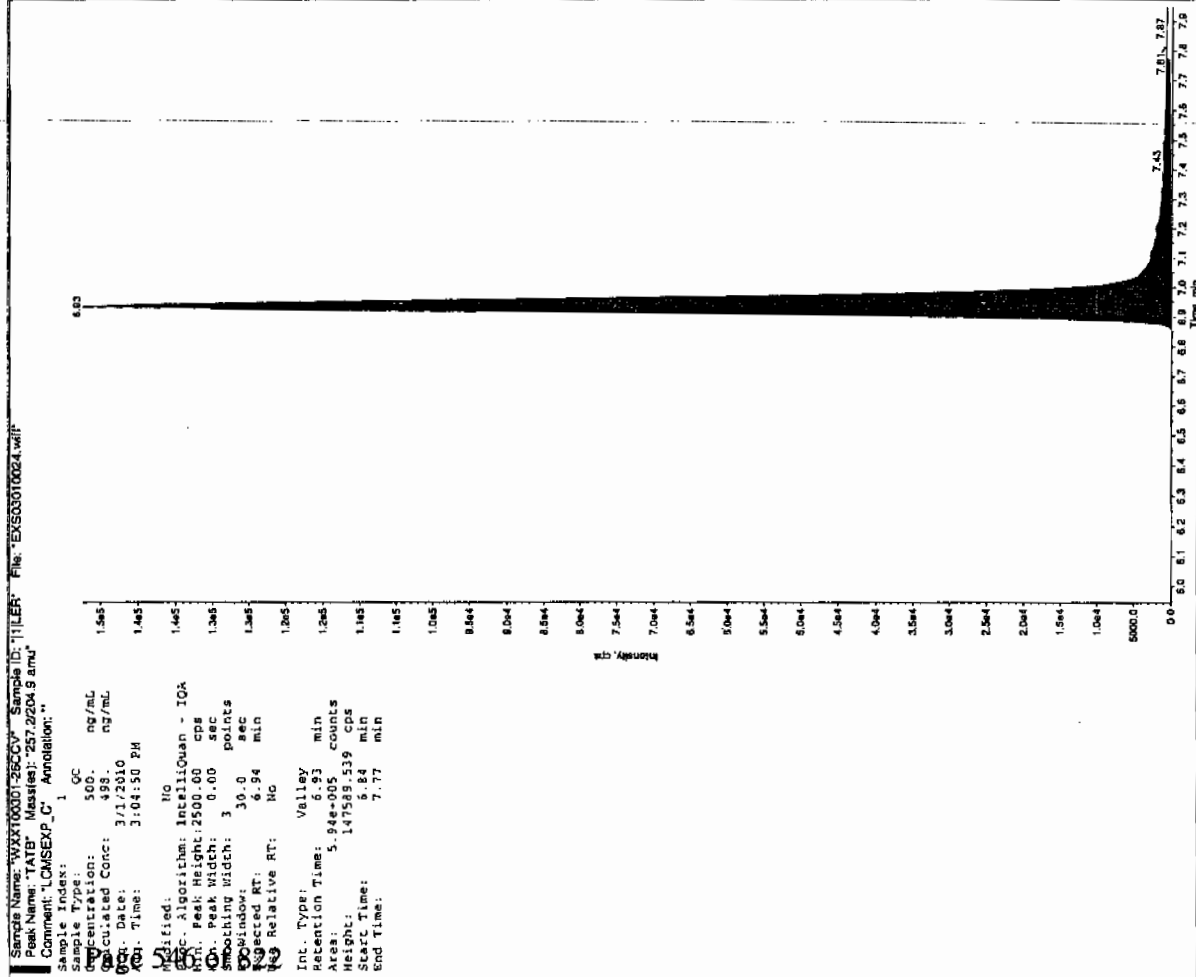


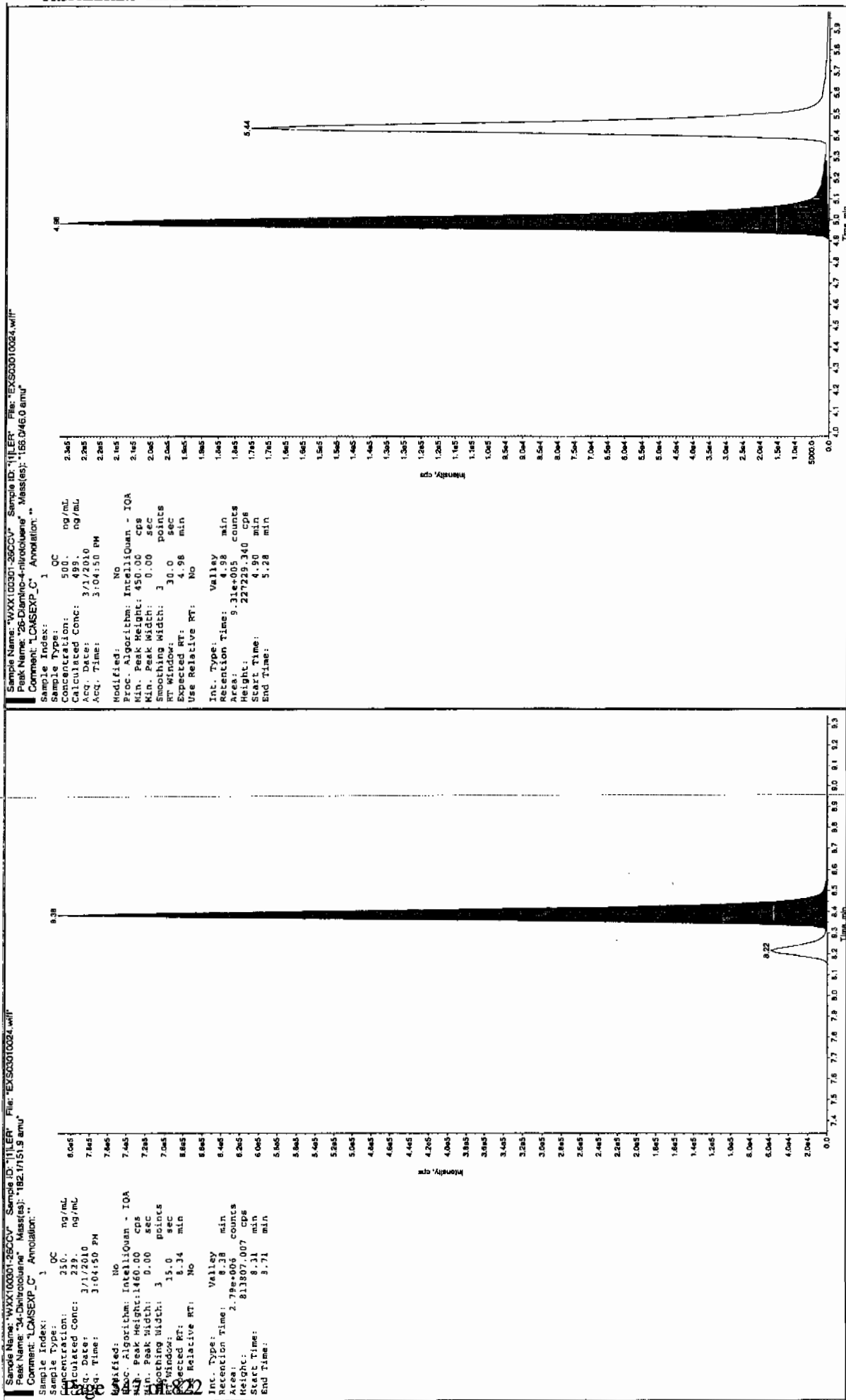
4/10/2010



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

After Scan 3/3/10

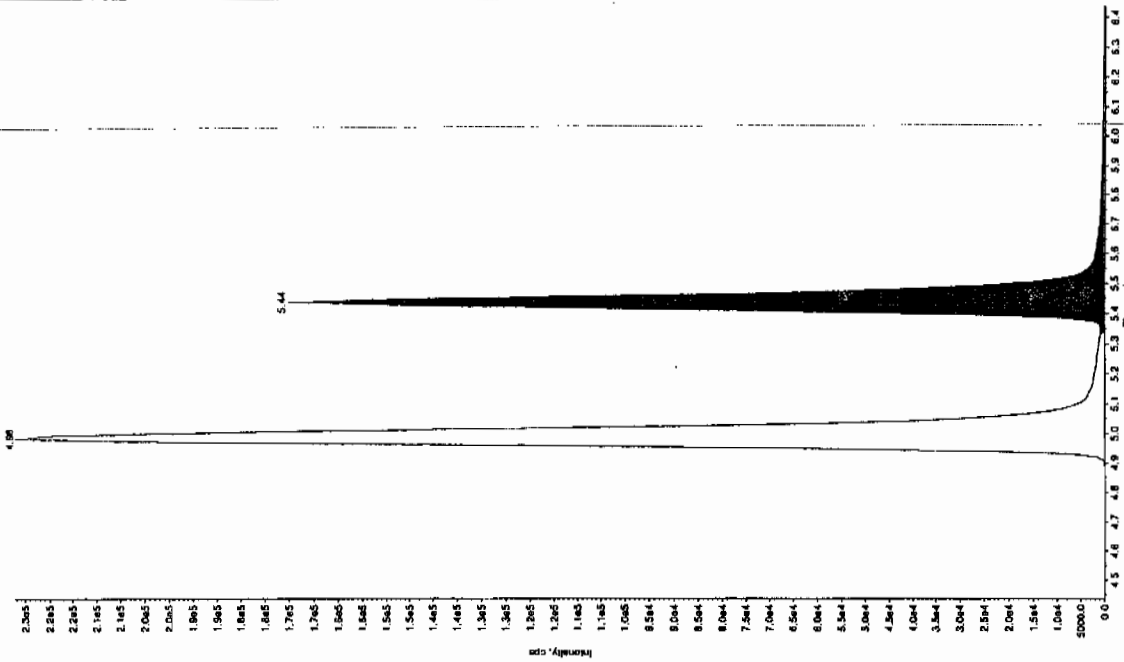






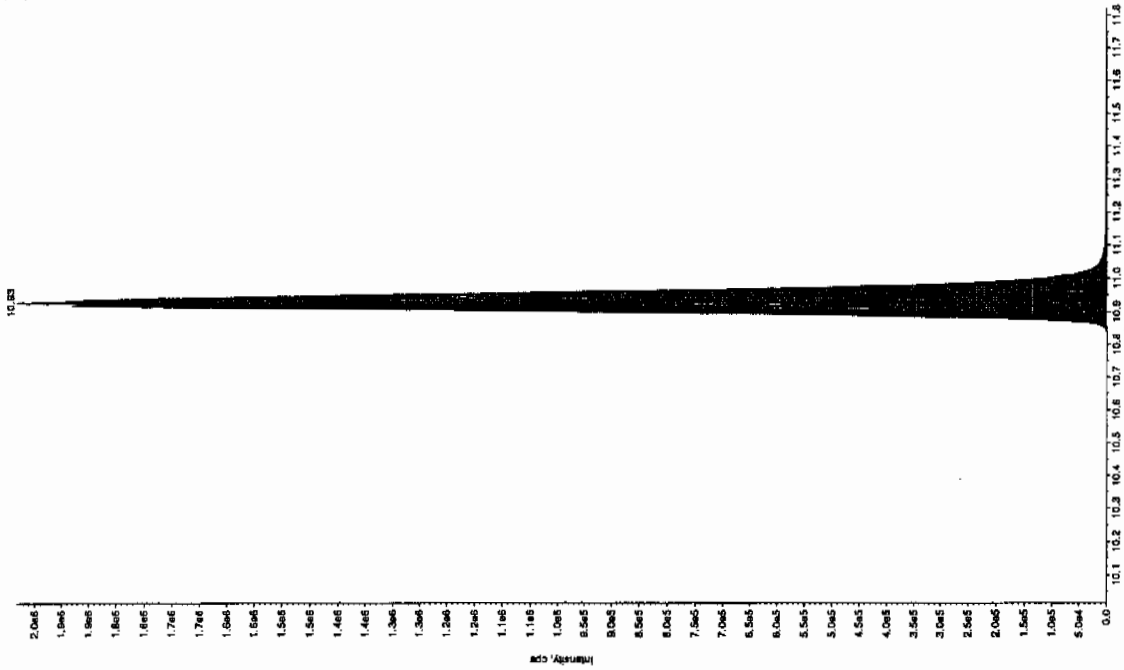
Sample Name: "WXX100301-28COV" Sample ID: "111ER" File: "EX50010024.wi"  
 Peak Name: "24-Chlorine-5-nitrobenzene" Mass(es): "166.046.0 amu"  
 Comment: "LONSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500 ng/mL  
 Calculated Conc: 495 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 3:04:50 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: 5.44 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.44 min  
 Area: 6.57e+005 counts  
 Height: 170321.594 cps  
 Start Time: 5.33 min  
 End Time: 5.97 min



Sample Name: "WXX100301-28COV" Sample ID: "111ER" File: "EX50010024.wi"  
 Peak Name: "bis(2-oxo-2-oxymethyl) phosphate" Mass(es): "389.191.0 amu"  
 Comment: "LONSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500 ng/mL  
 Calculated Conc: 500 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 3:04:50 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: 7.81e+006 counts  
 Height: 1982946.269 cps  
 Start Time: 10.8 min  
 End Time: 11.2 min



7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010026.wiff

Analysis Date: 01-MAR-10 15:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.7	100	
2,6-Diamino-4-nitrotoluene	100	101	101	
3,4-Dinitrotoluene	50	52.7	105	
3,5-Dinitroaniline	100	96.2	96	
TATB	100	102	102	
tris(o-cresyl) phosphate	100	100	100	

Recovery Limits:

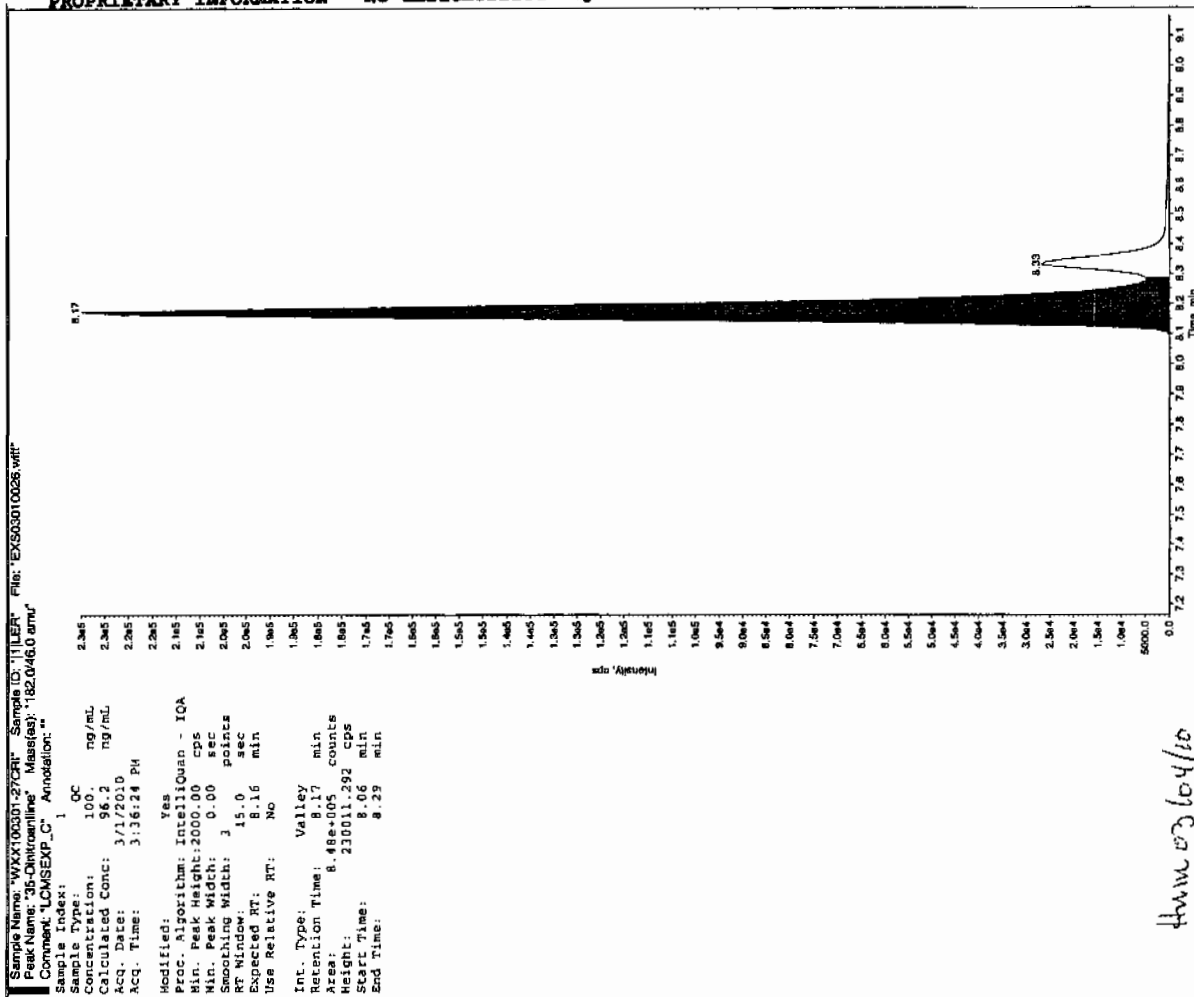
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

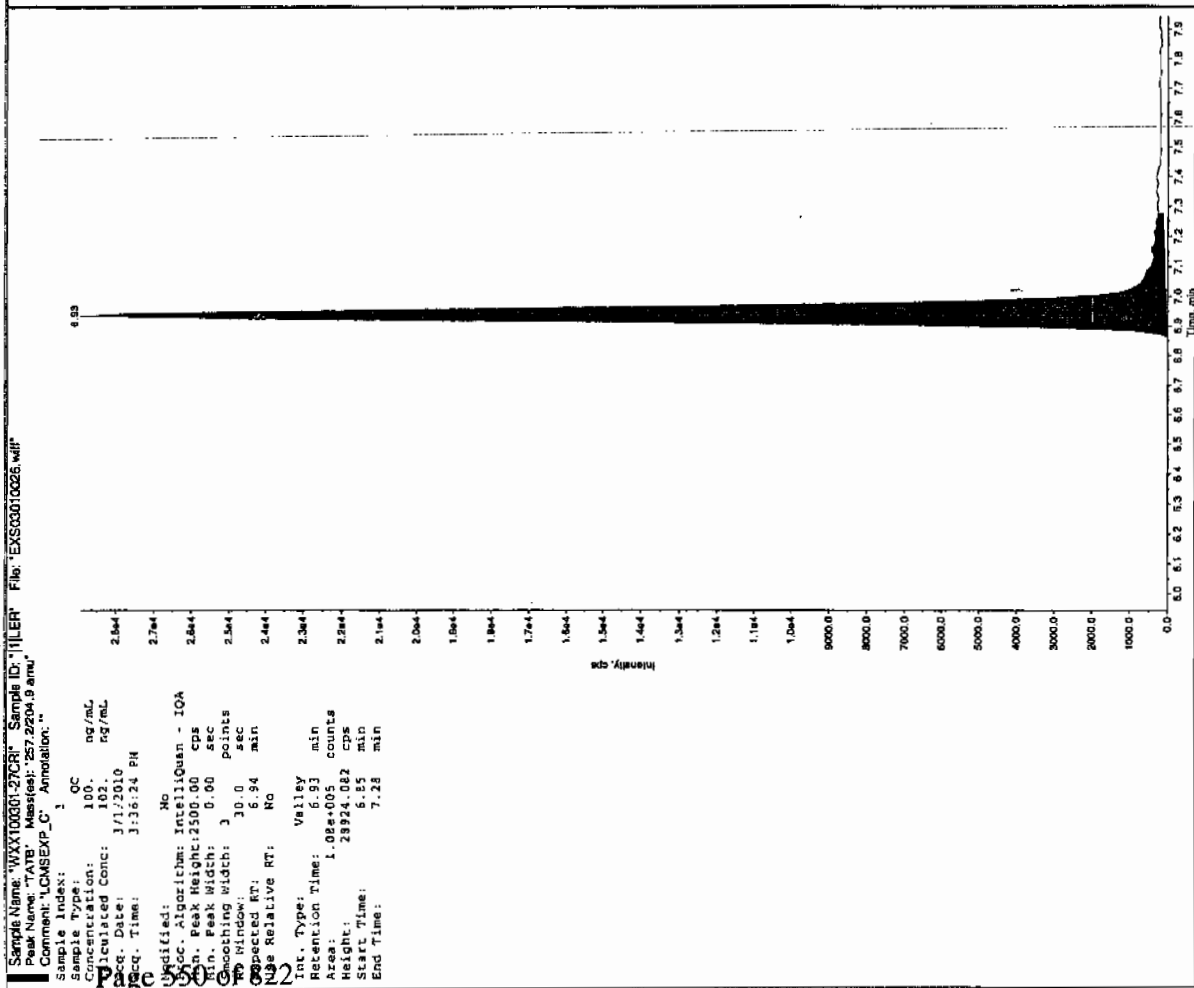
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Ren 3/3/10

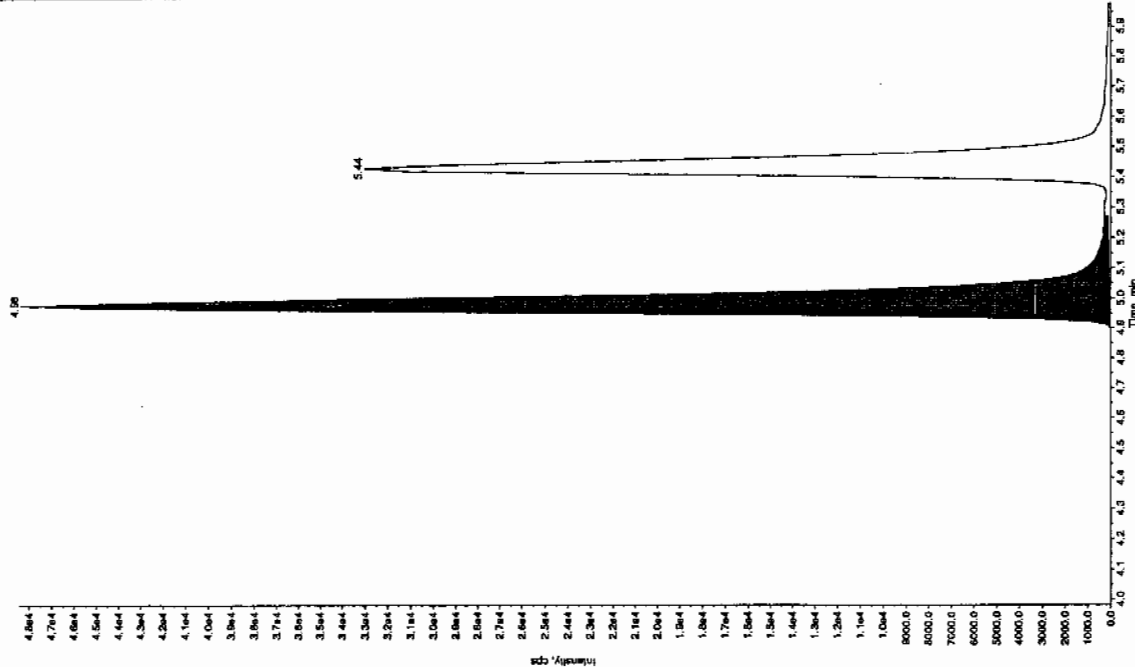


4mm 03/04/10



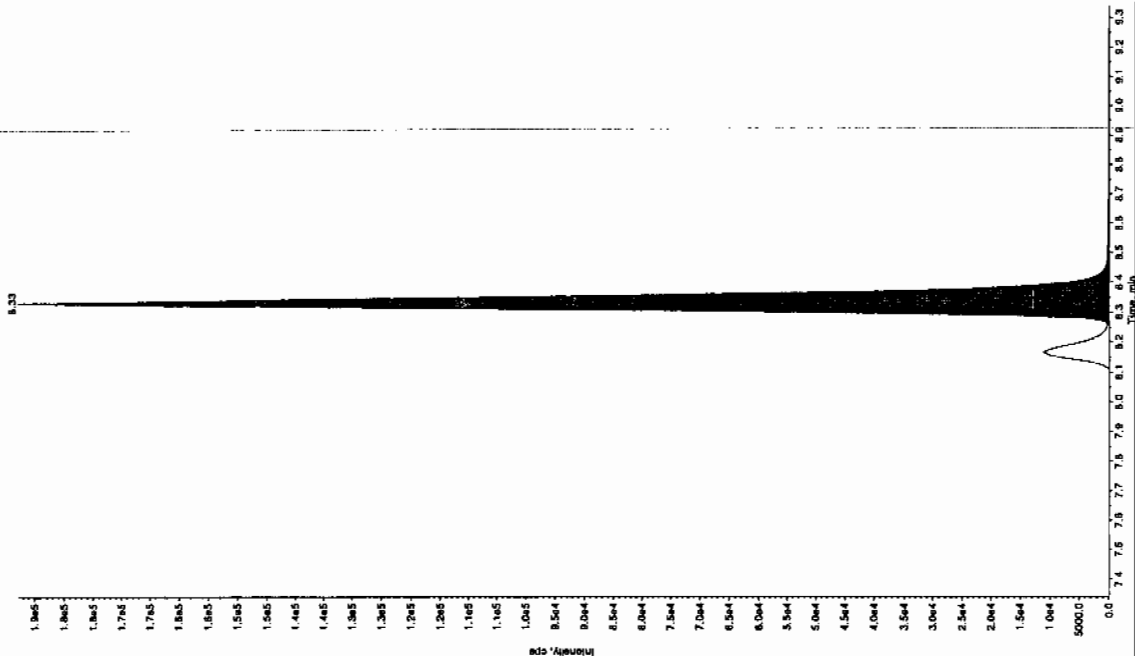
Sample Name: WXX100301-27C1 Sample ID: 111ER File: EX503010025.wif  
Peak Name: 26-Diamino-4-nitrotoluene Mass(es): 186.046.0 amu  
Comment: LCMSEXP\_C Annotation: \*\*

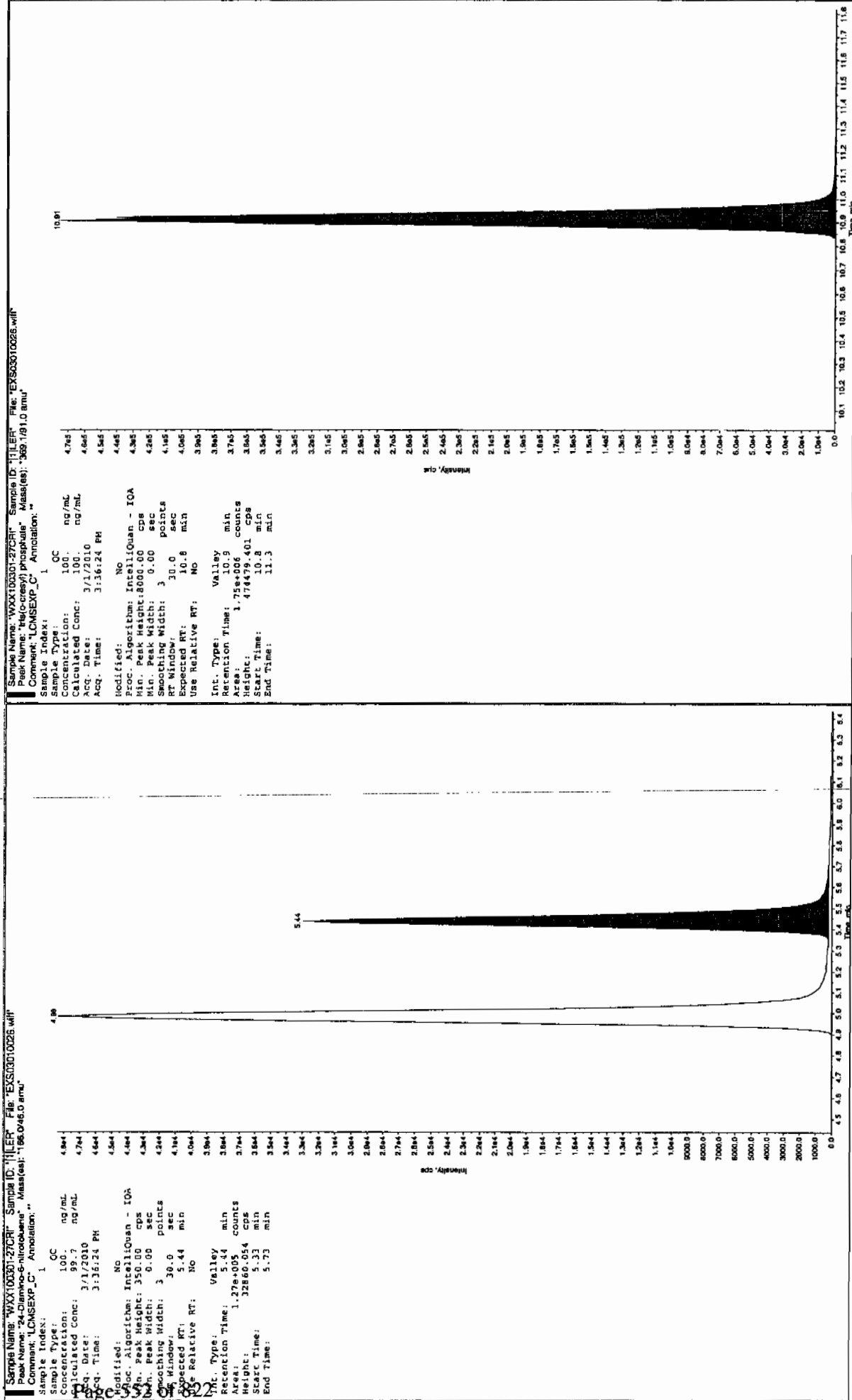
Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 101. ng/mL  
Acq. Date: 3/1/2010  
Acq. Time: 3:36:24 PM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.98 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 4.98 min  
Area: 1.95e+005 counts  
Height: 48368.607 cps  
Start Time: 4.89 min  
End Time: 5.27 min



Sample Name: WXX100301-27C1 Sample ID: 111ER File: EX503010025.wif  
Peak Name: 34-Dinitrotoluene Mass(es): 182.151.9 amu  
Comment: LCMSEXP\_C Annotation: \*\*

Sample Index: 1  
Sample Type: QC  
Concentration: 50.0 ng/mL  
Calculated Conc: 52.7 ng/mL  
Acq. Date: 3/1/2010  
Acq. Time: 3:36:24 PM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 1660.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.34 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 6.07e+005 counts  
Height: 18778.061 cps  
Start Time: 8.26 min  
End Time: 8.67 min





7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010037.wiff

Analysis Date: 01-MAR-10 18:29

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	525	105	
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	501	100	
TATB	500	493	99	
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 ,

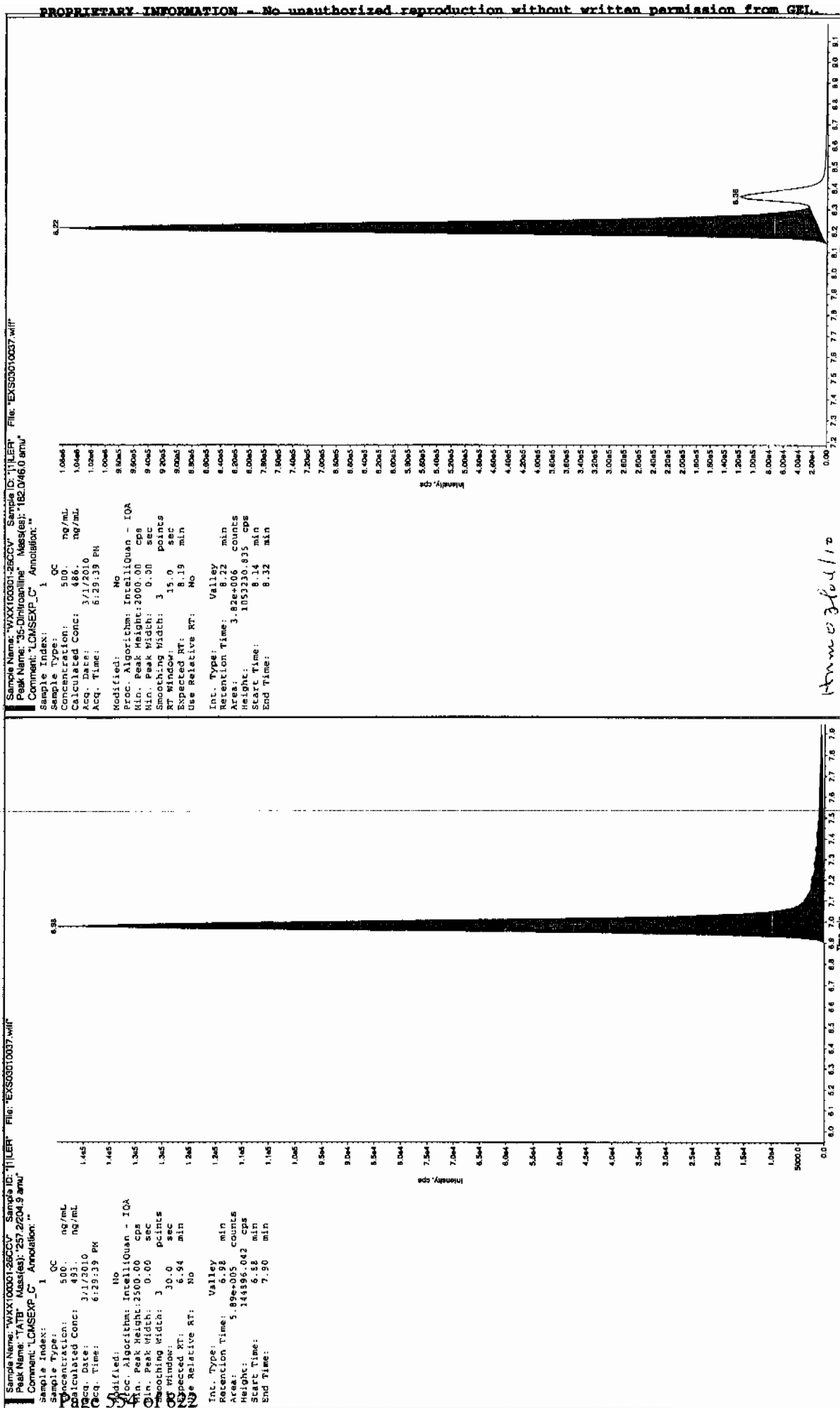
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

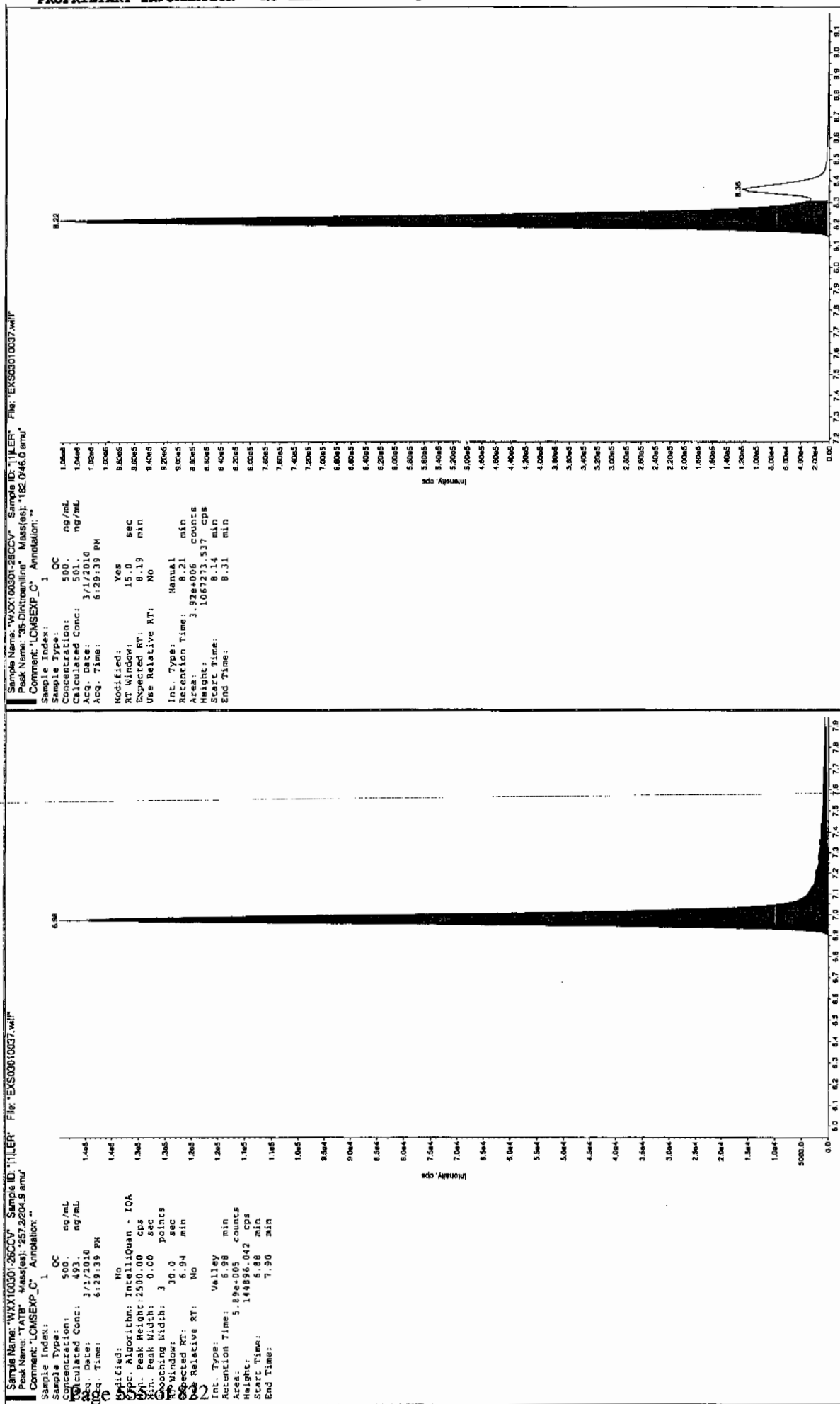
Before Jan 3/3/10



Amc 3/6/10

after Run 3/3/10

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

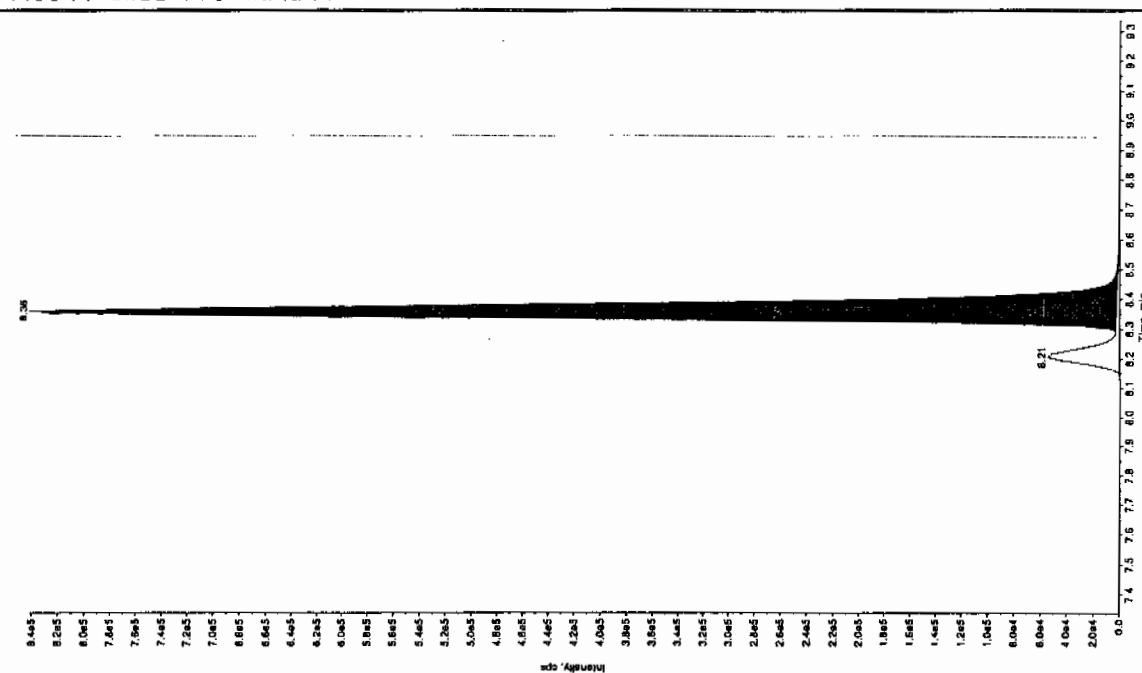


\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



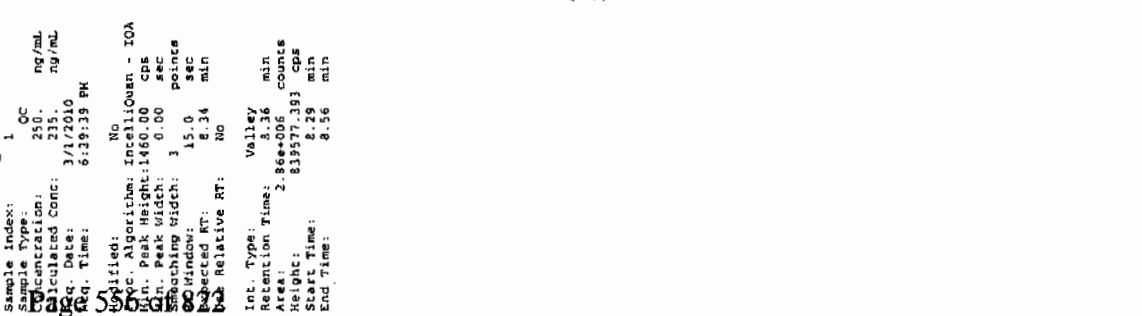
Sample Name: WXX100301-260CV Sample ID: T1LER File: EX503010037.wif  
 Peak Name: 26-Diamino-4-nitrofluorene Mass(es): 186.046.0 amu  
 Comment: LCMSEXP\_C Annotation: "

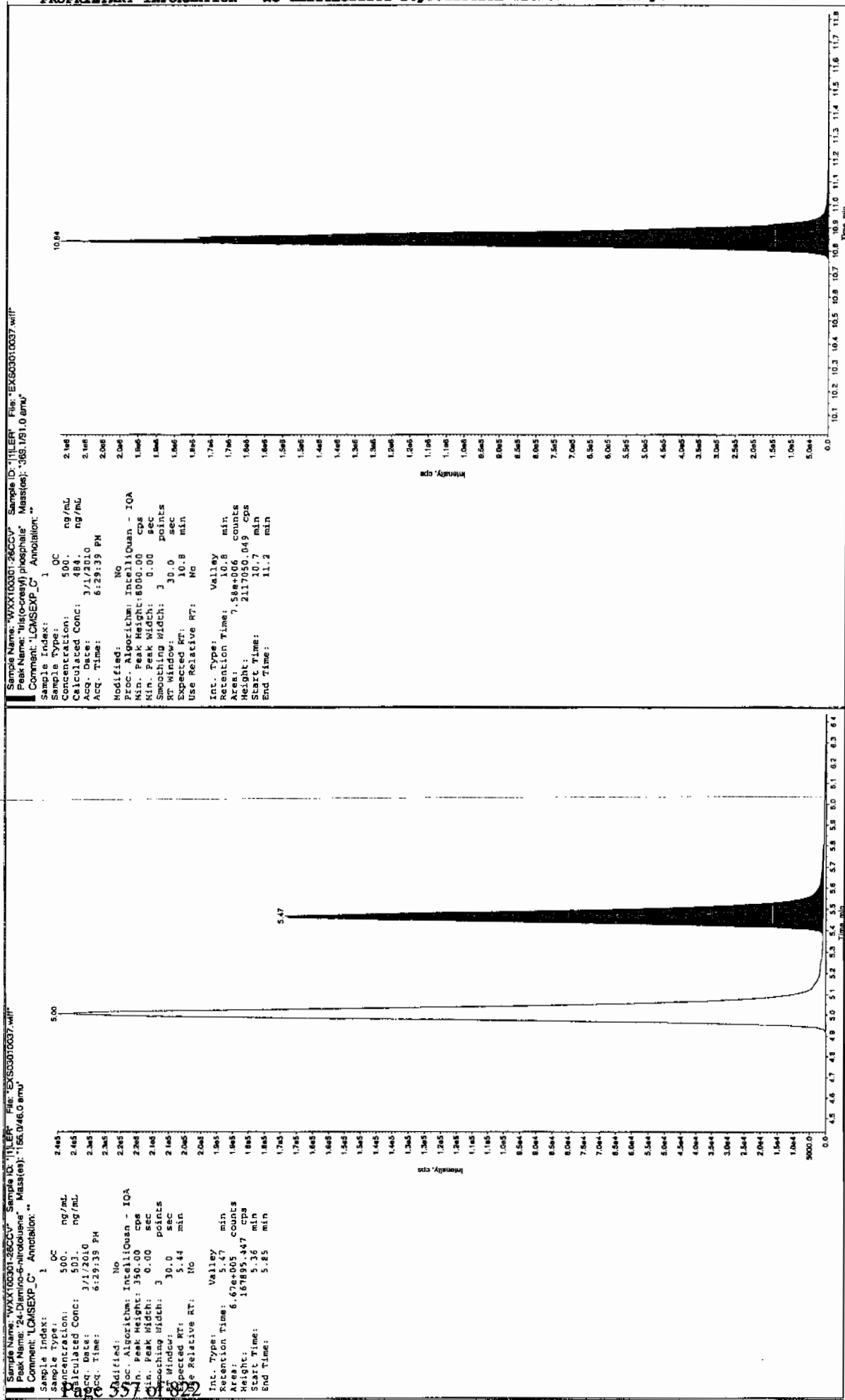
Sample Index: 1  
 Sample Type: OC  
 Concentration: 500 ng/mL  
 Calculated Conc: 525 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 6:29:39 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 10.0 sec  
 Expected RT: 4.98 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.00 min  
 Area: 9.75e+005 counts  
 Height: 2393122 cps  
 Start Time: 4.91 min  
 End Time: 5.11 min



Sample Name: WXX100301-260CV Sample ID: T1LER File: EX503010037.wif  
 Peak Name: 34-Diamino-4-nitrofluorene Mass(es): 182.1715.9 amu  
 Comment: LCMSEXP\_C Annotation: "

Sample Index: 1  
 Sample Type: OC  
 Concentration: 250 ng/mL  
 Calculated Conc: 235 ng/mL  
 Acq. Date: 3/1/2010  
 Acq. Time: 6:29:39 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 1450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.34 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.36 min  
 Area: 2.86e+006 counts  
 Height: 83977381 cps  
 Start Time: 8.29 min  
 End Time: 8.56 min





7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010039.wiff

Analysis Date: 01-MAR-10 19:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	109	109	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	51.7	103	
3,5-Dinitroaniline	100	93.9	94	
TATB	100	103	103	
tris(o-cresyl) phosphate	100	101	101	

Recovery Limits:

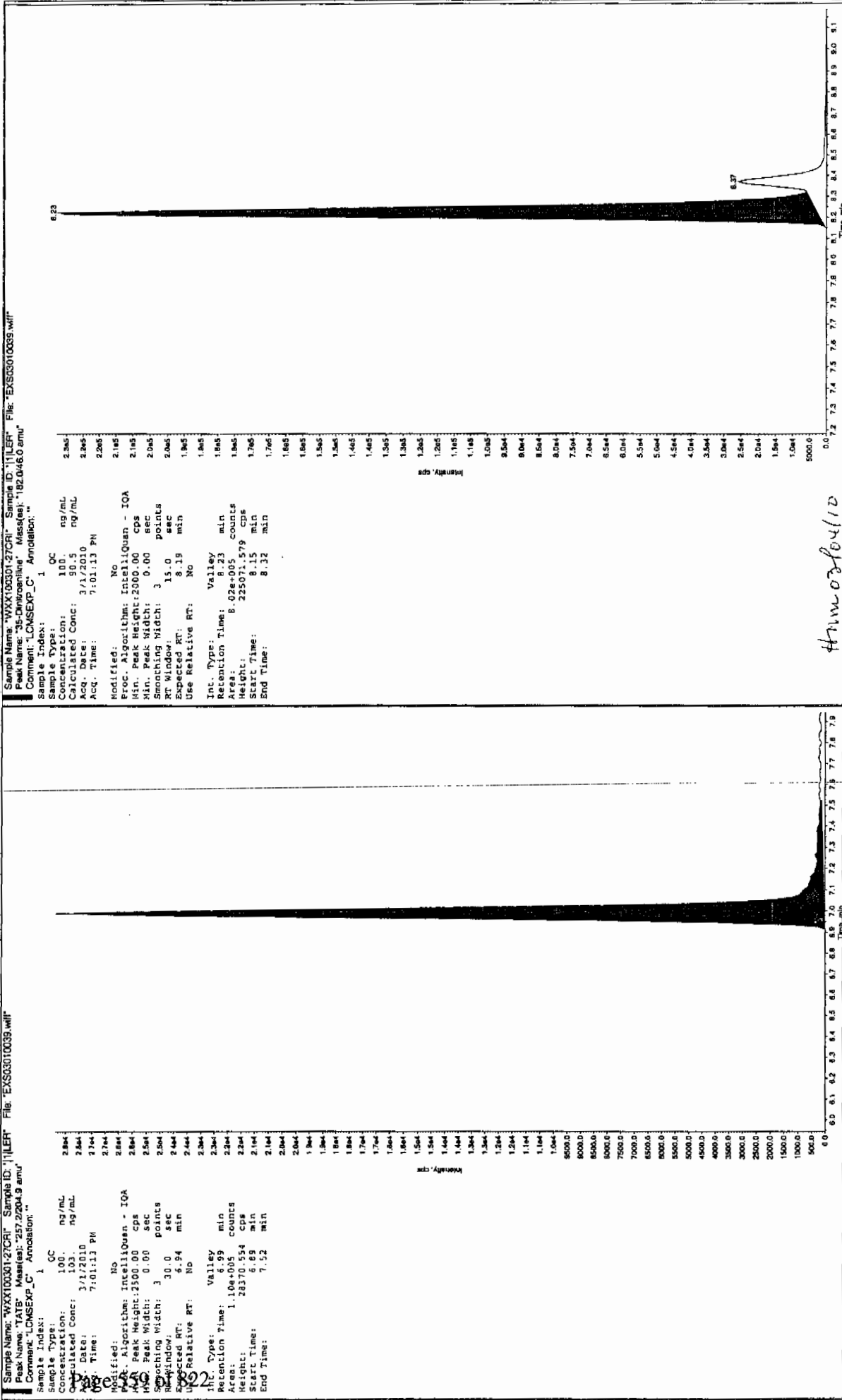
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

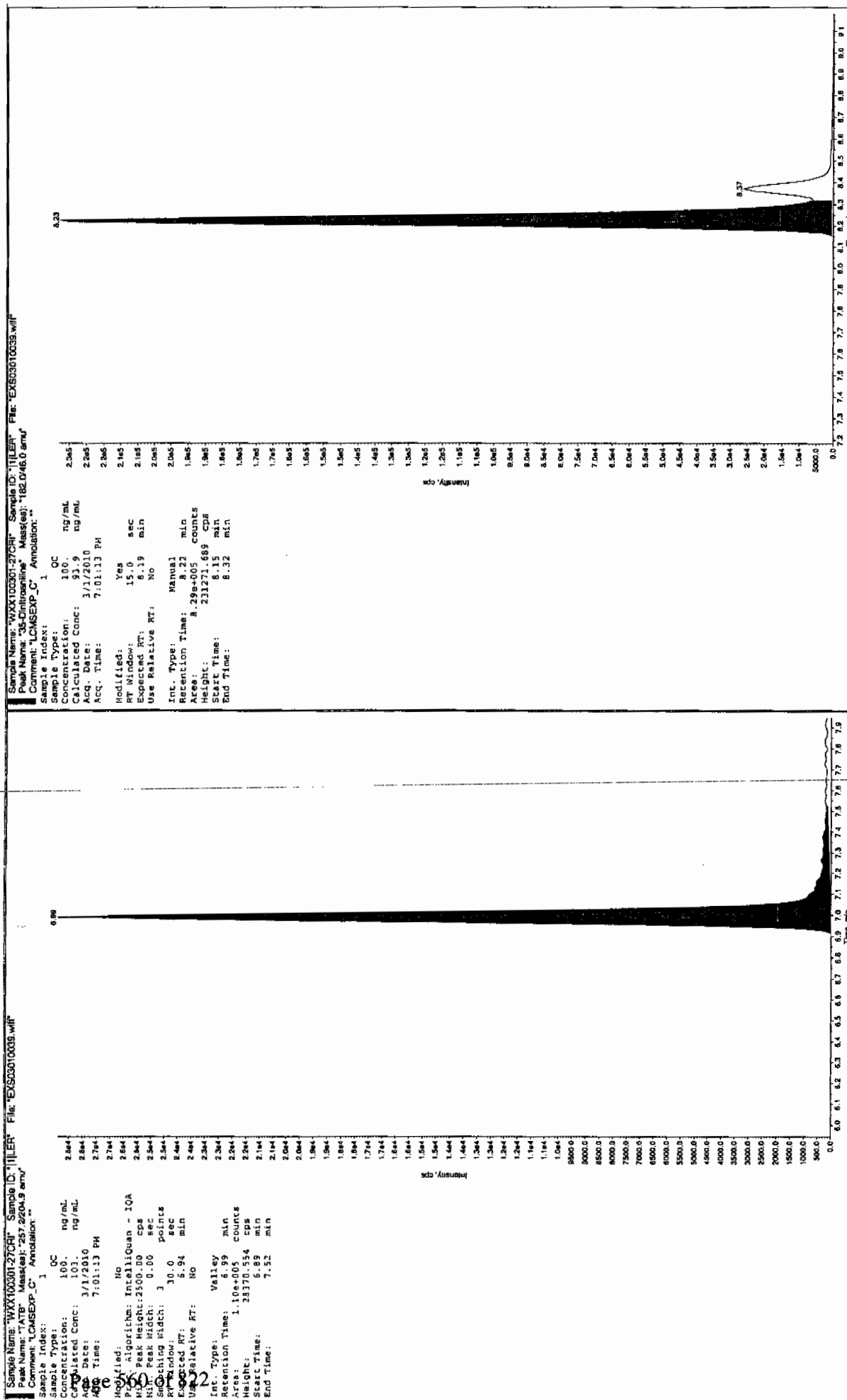
# Column used to flag Recovery outside of Limits

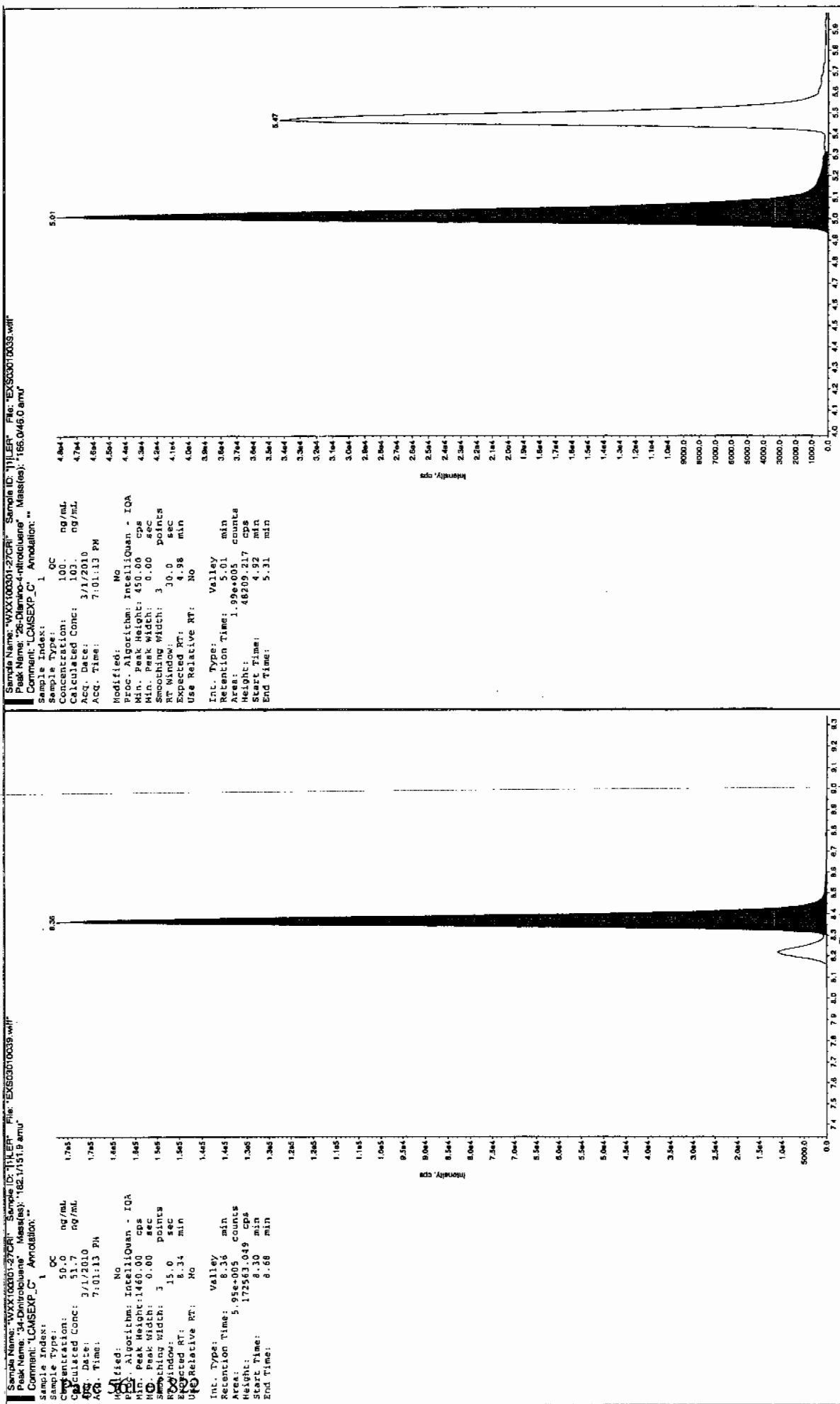
\* Value outside of Recovery Limits

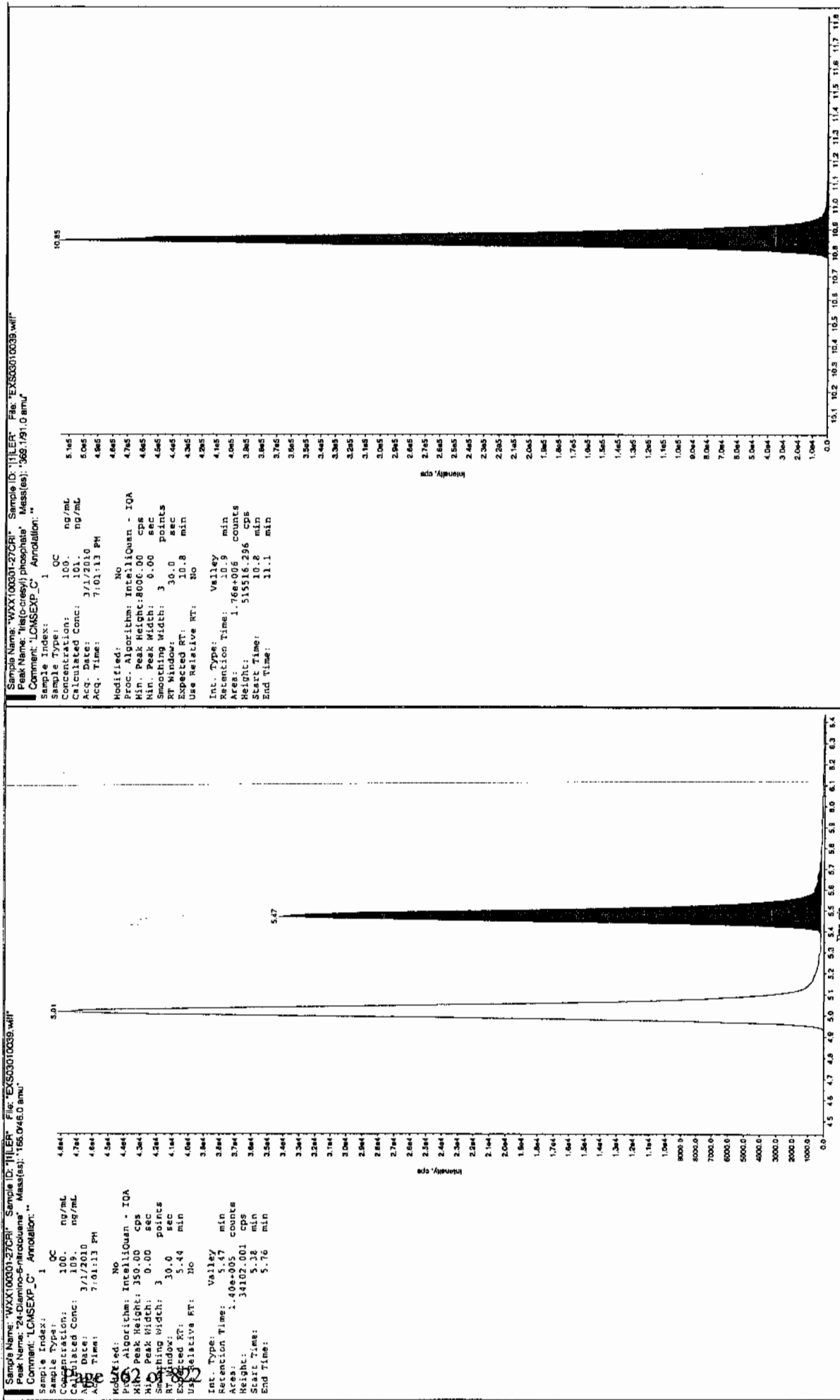
Before Jan 3/3/10



after Jan 3/3/10







\*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): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010050.wiff

Analysis Date: 01-MAR-10 21:54

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	513	103	
2,6-Diamino-4-nitrotoluene	500	527	105	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	506	101	
TATB	500	501	100	
tris(o-cresyl) phosphate	500	499	100	

Recovery Limits:

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

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

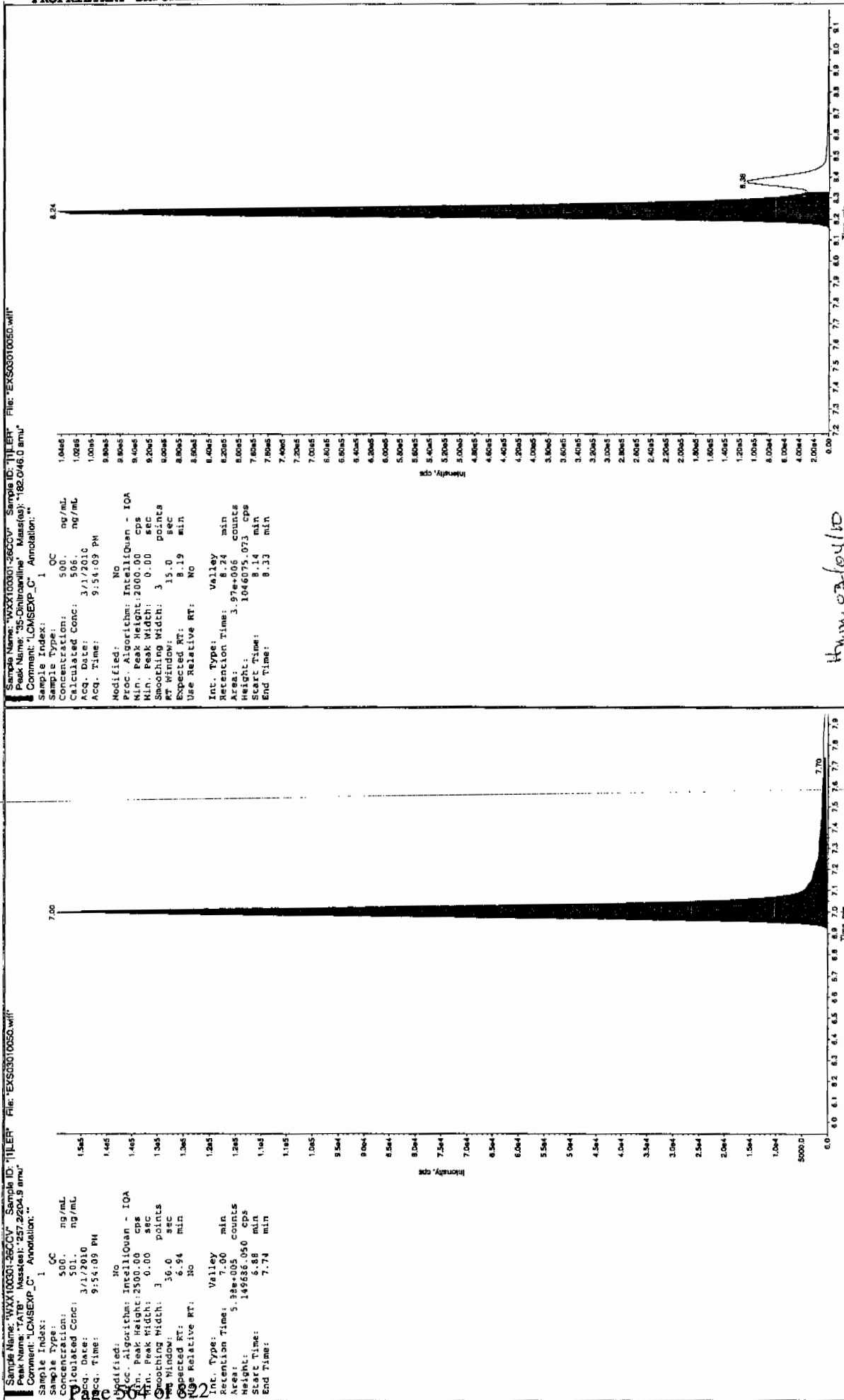
Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



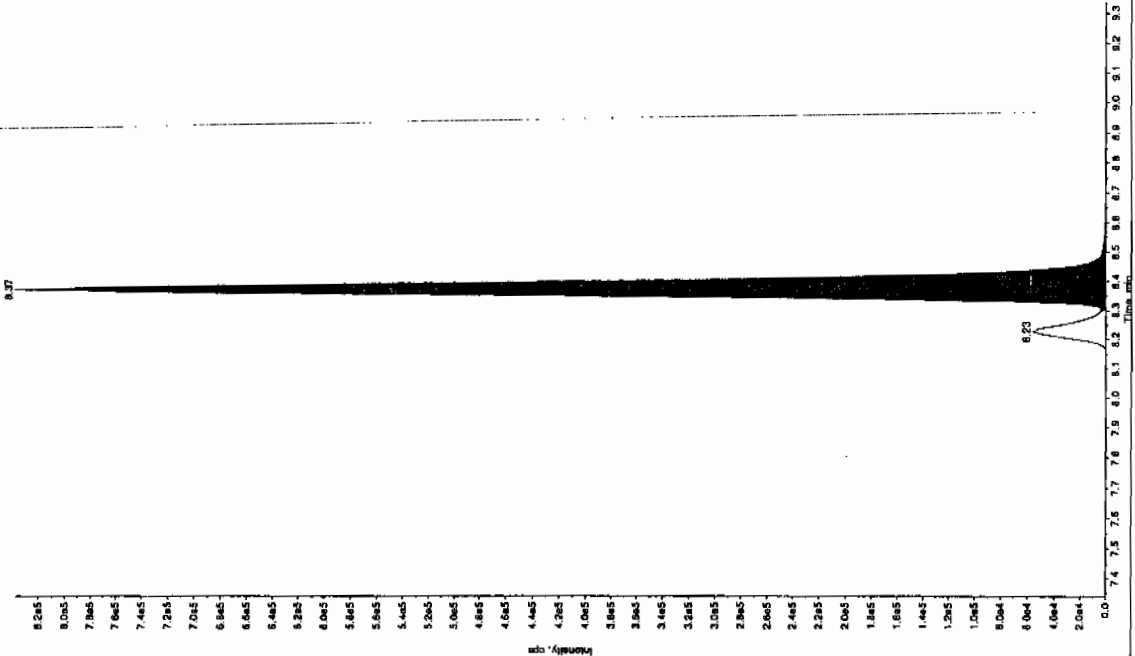
See 3/3/10



Handwritten: 8.24

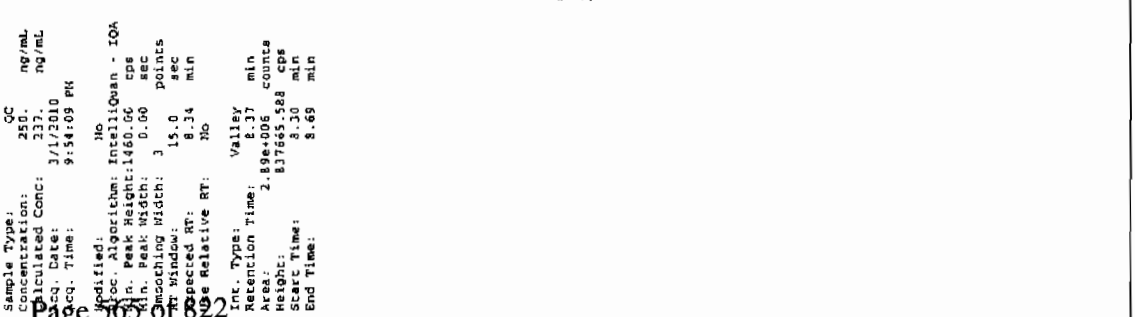
Sample Name: "WXX100301-260CV" Sample ID: "11LER" File: "EXS03010050.wif"  
 Peak Name: "26-Dianno-4-nitrofluorene" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

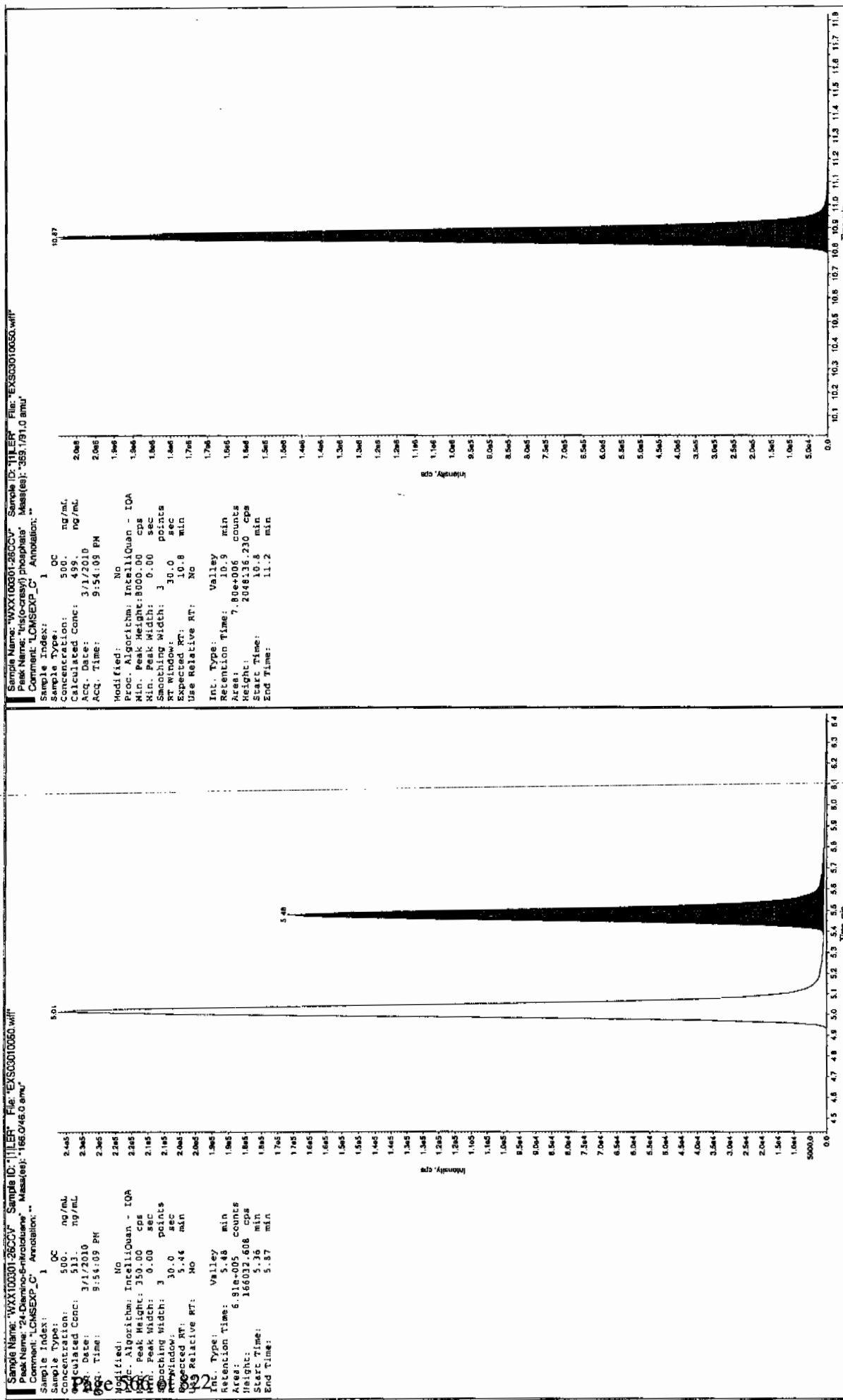
Sample Index: 1  
 Sample Type: QC  
 Concentration: 500.0 ng/mL  
 Calculated Conc: 500.0 ng/mL  
 Acq. Date: 3/17/2010  
 Acq. Time: 9:54:09 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.98 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.01 min  
 Area: 9.82e+005 counts  
 Height: 237667.511 cps  
 Start Time: 4.92 min  
 End Time: 5.12 min



Sample Name: "WXX100301-260CV" Sample ID: "11LER" File: "EXS03010050.wif"  
 Peak Name: "34-Chlorofluorene" Mass(es): "162.1715.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 250.0 ng/mL  
 Calculated Conc: 237.0 ng/mL  
 Acq. Date: 3/17/2010  
 Acq. Time: 9:54:09 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: 8.34 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.37 min  
 Area: 2.89e+005 counts  
 Height: 83760.588 cps  
 Start Time: 8.30 min  
 End Time: 8.49 min





7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010052.wiff

Analysis Date: 01-MAR-10 22:25

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	100	103	103	
2,4-Diamino-6-nitrotoluene	100	107	107	
2,6-Diamino-4-nitrotoluene	100	108	108	
3,4-Dinitrotoluene	50	53	106	
3,5-Dinitroaniline	100	97.3	97	
TATB	100	104	104	

Recovery Limits:

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

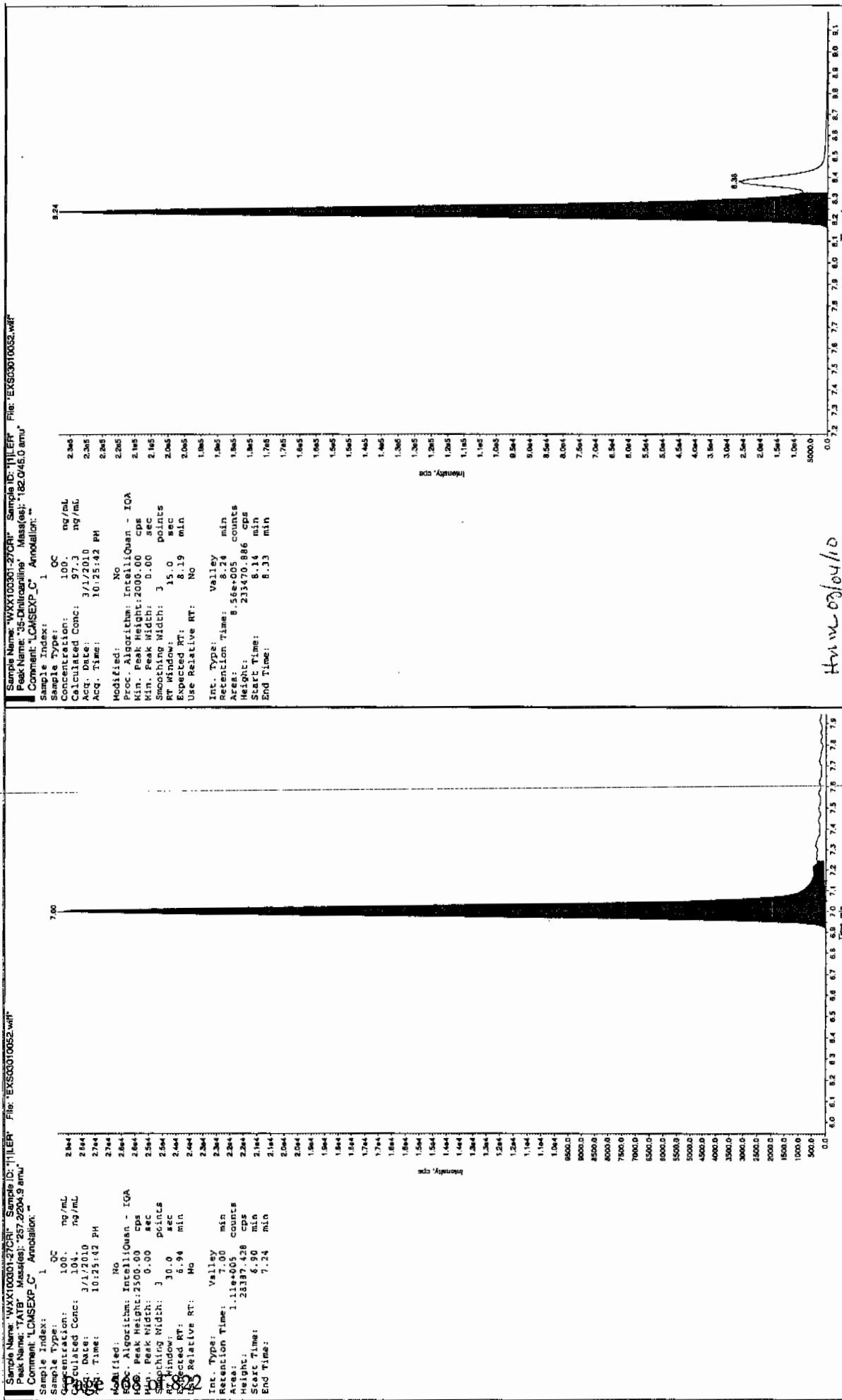
2,4-Diamino-6-nitrotoluene 50-150%

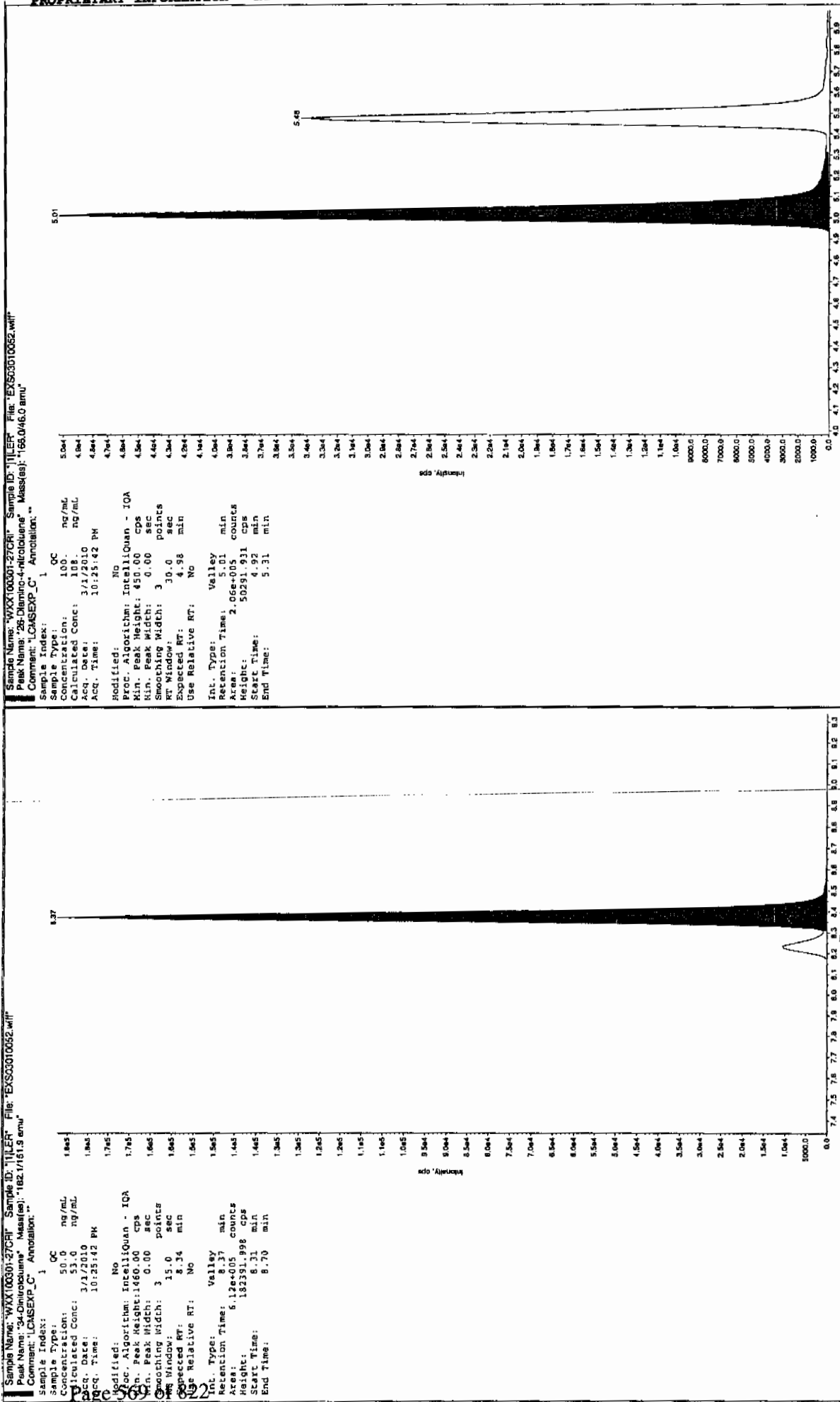
Other Target Analytes 70-130%

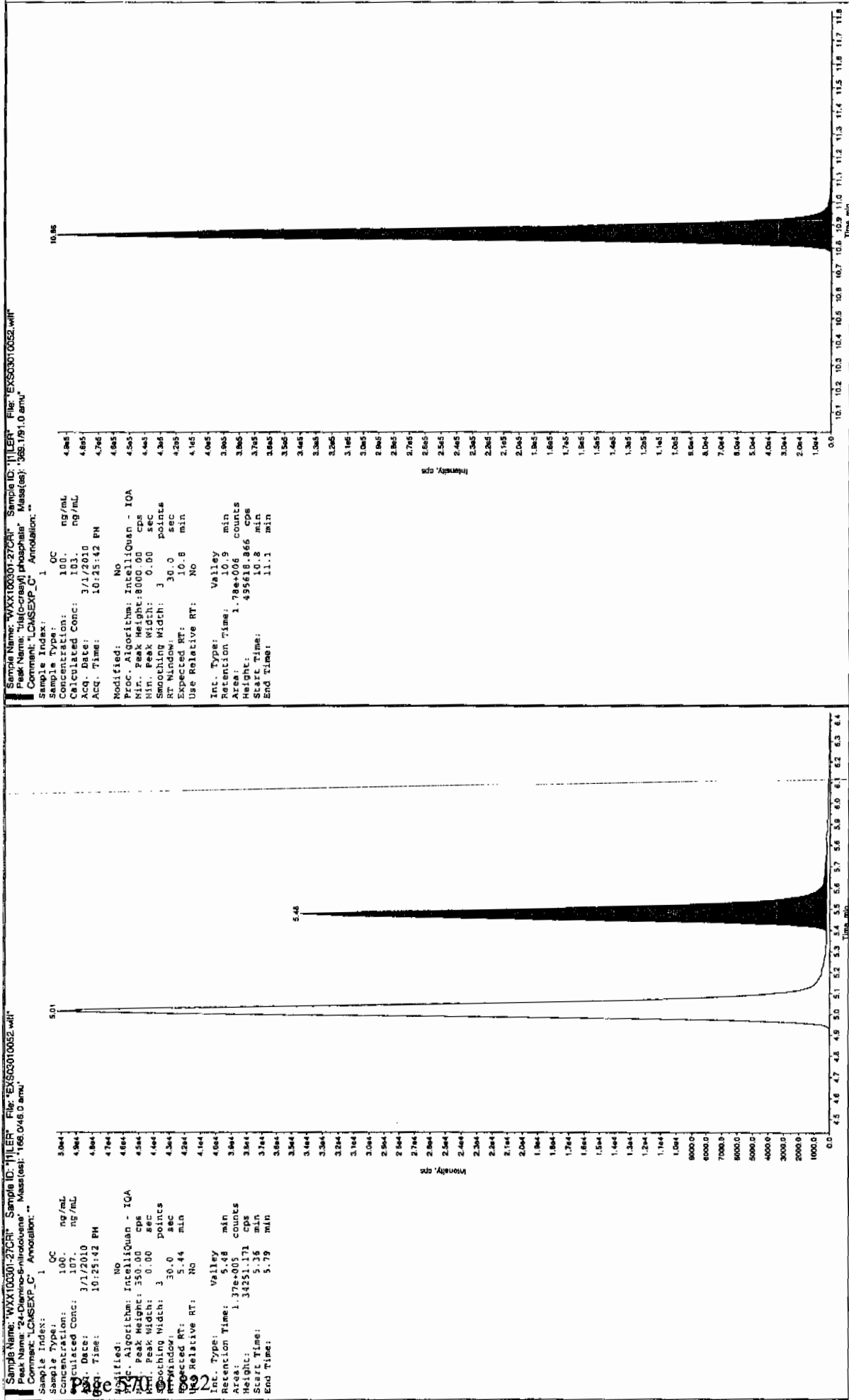
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Jan 3/3/10







7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010063.wiff

Analysis Date: 02-MAR-10 01:18

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	564	113	
2,6-Diamino-4-nitrotoluene	500	551	110	
3,4-Dinitrotoluene	250	238	95	
3,5-Dinitroaniline	500	523	105	
TATB	500	513	103	
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%

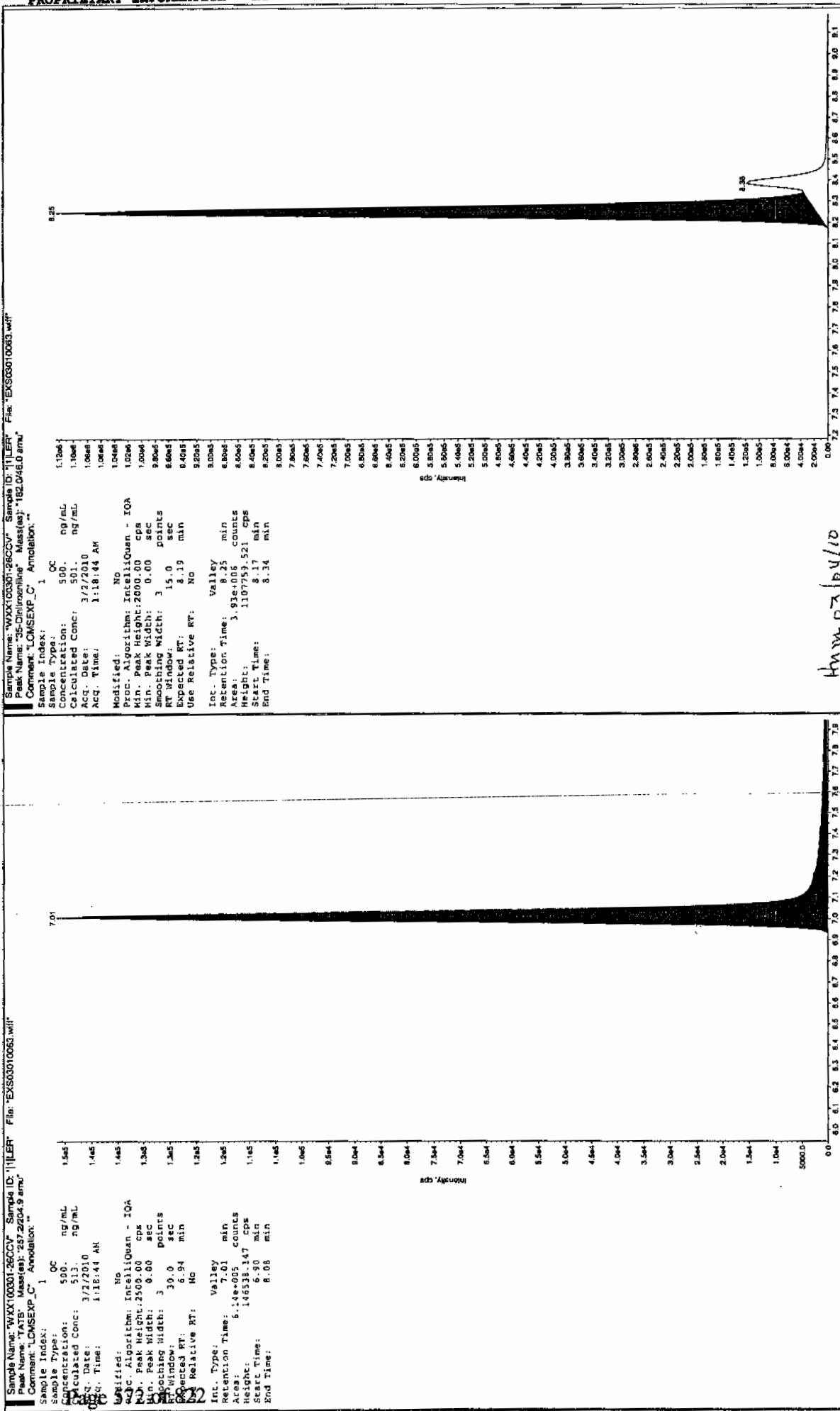
Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

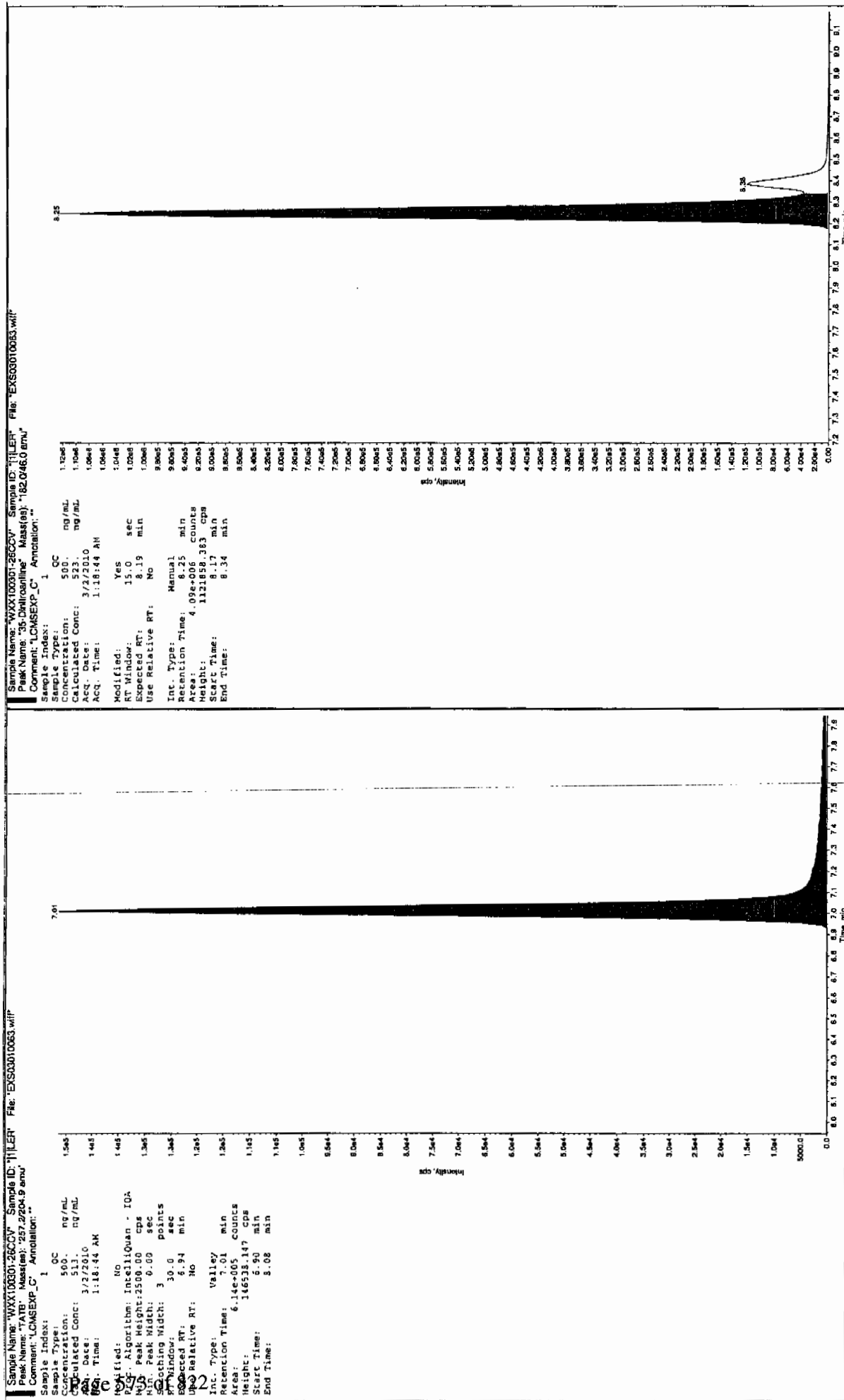


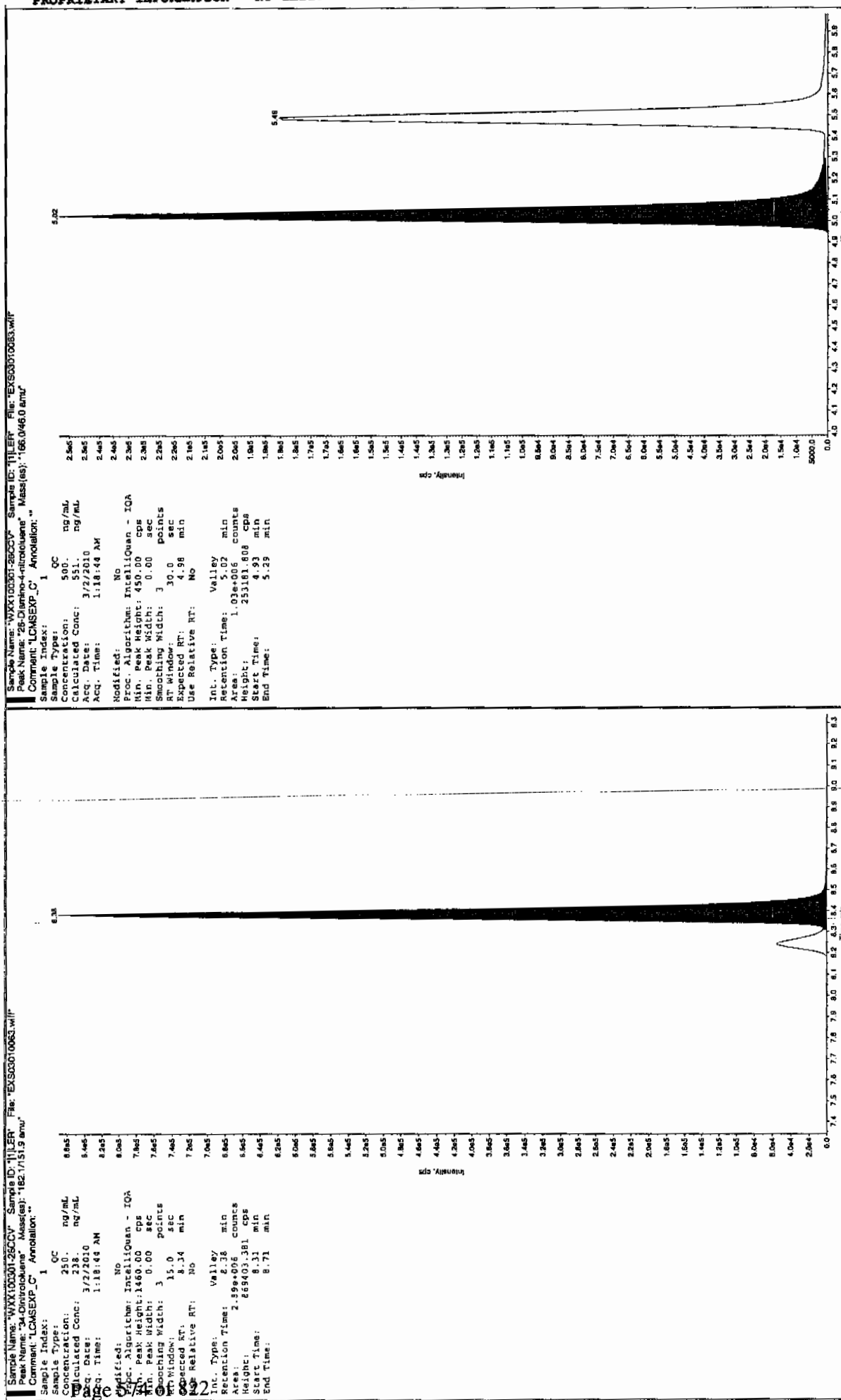
Before Jan 3/3/10

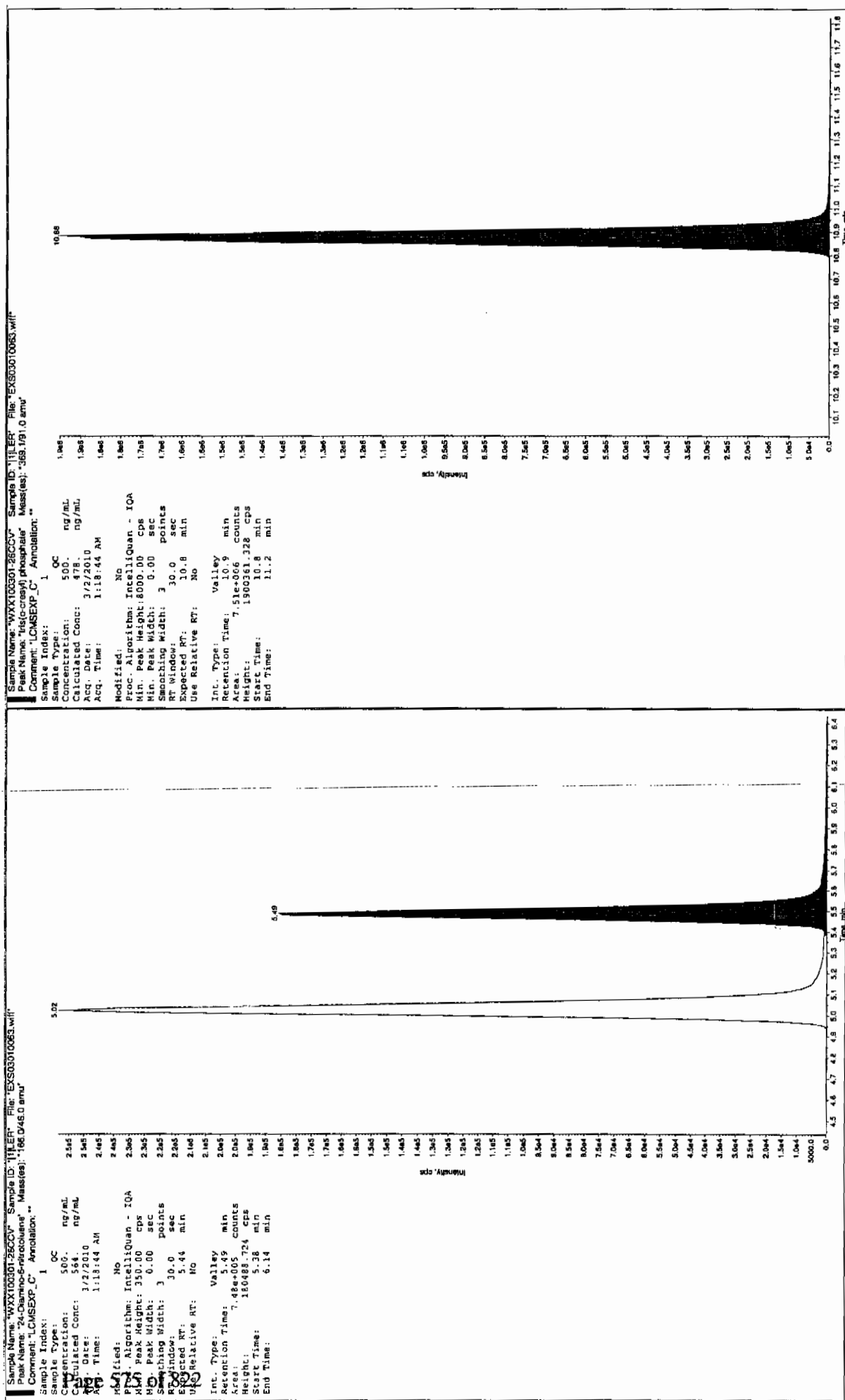


Hum 03/04/10

after Jan 3/3/10







7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010065.wiff

Analysis Date: 02-MAR-10 01:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	117	117	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	51.2	102	
3,5-Dinitroaniline	100	95.4	95	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

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

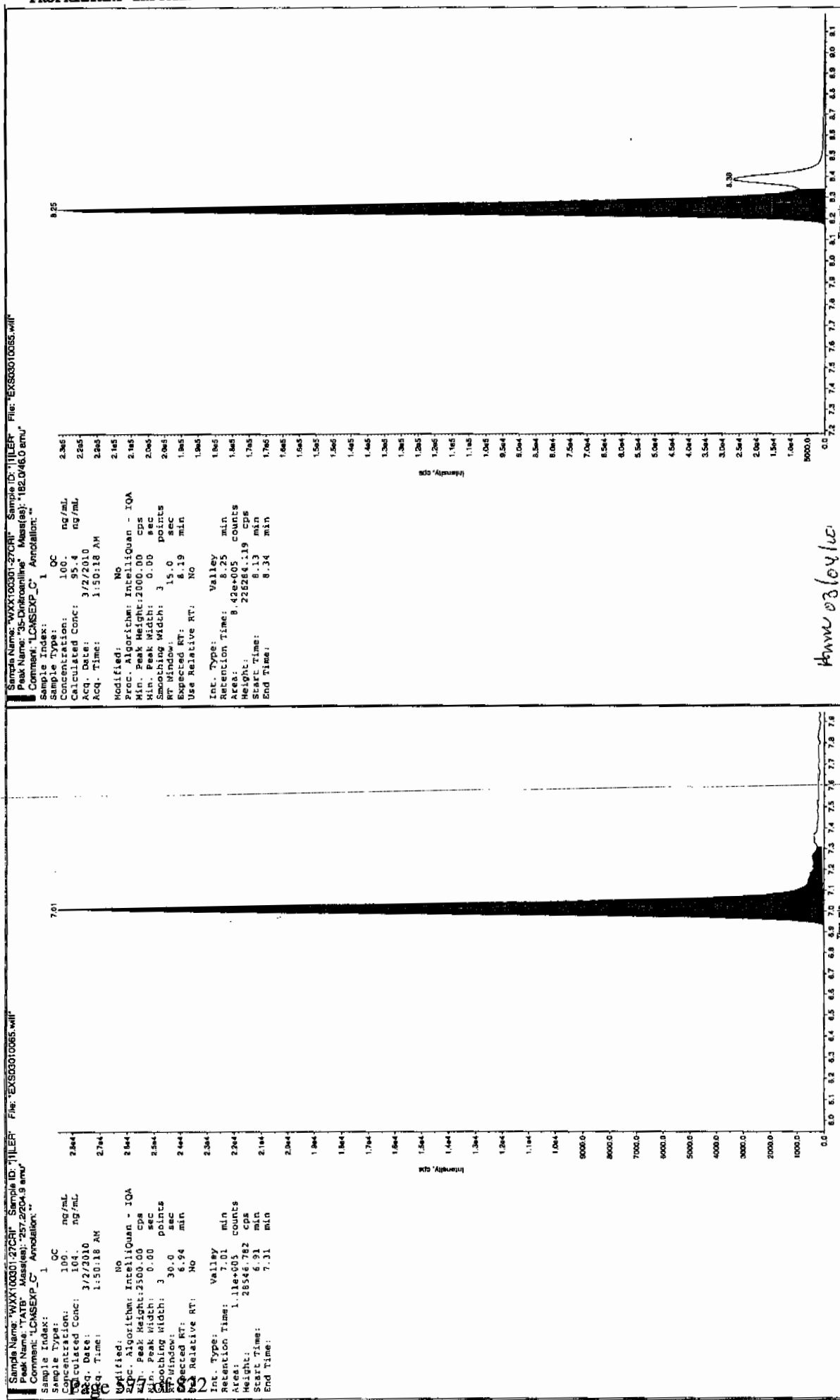
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

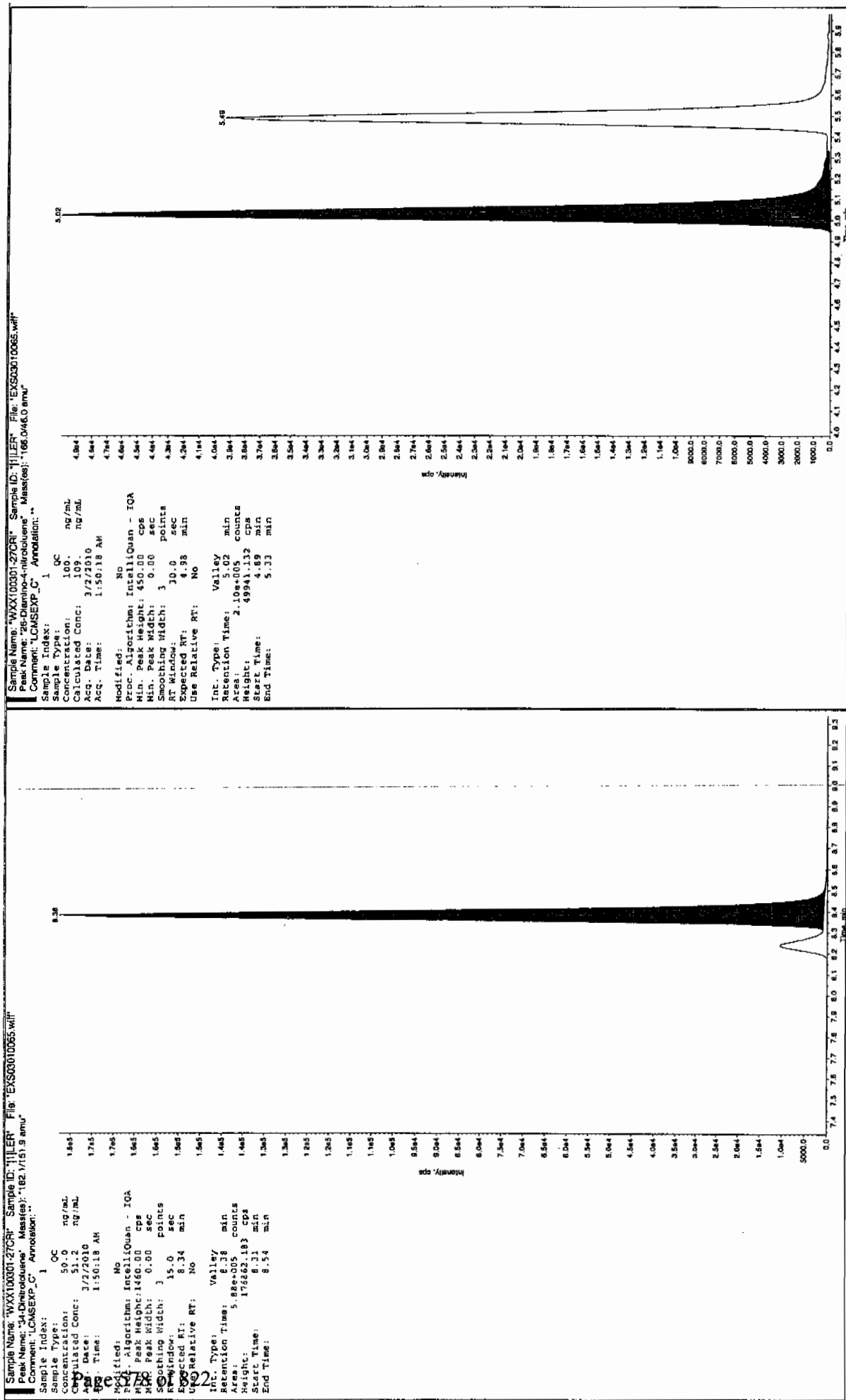
# Column used to flag Recovery outside of Limits

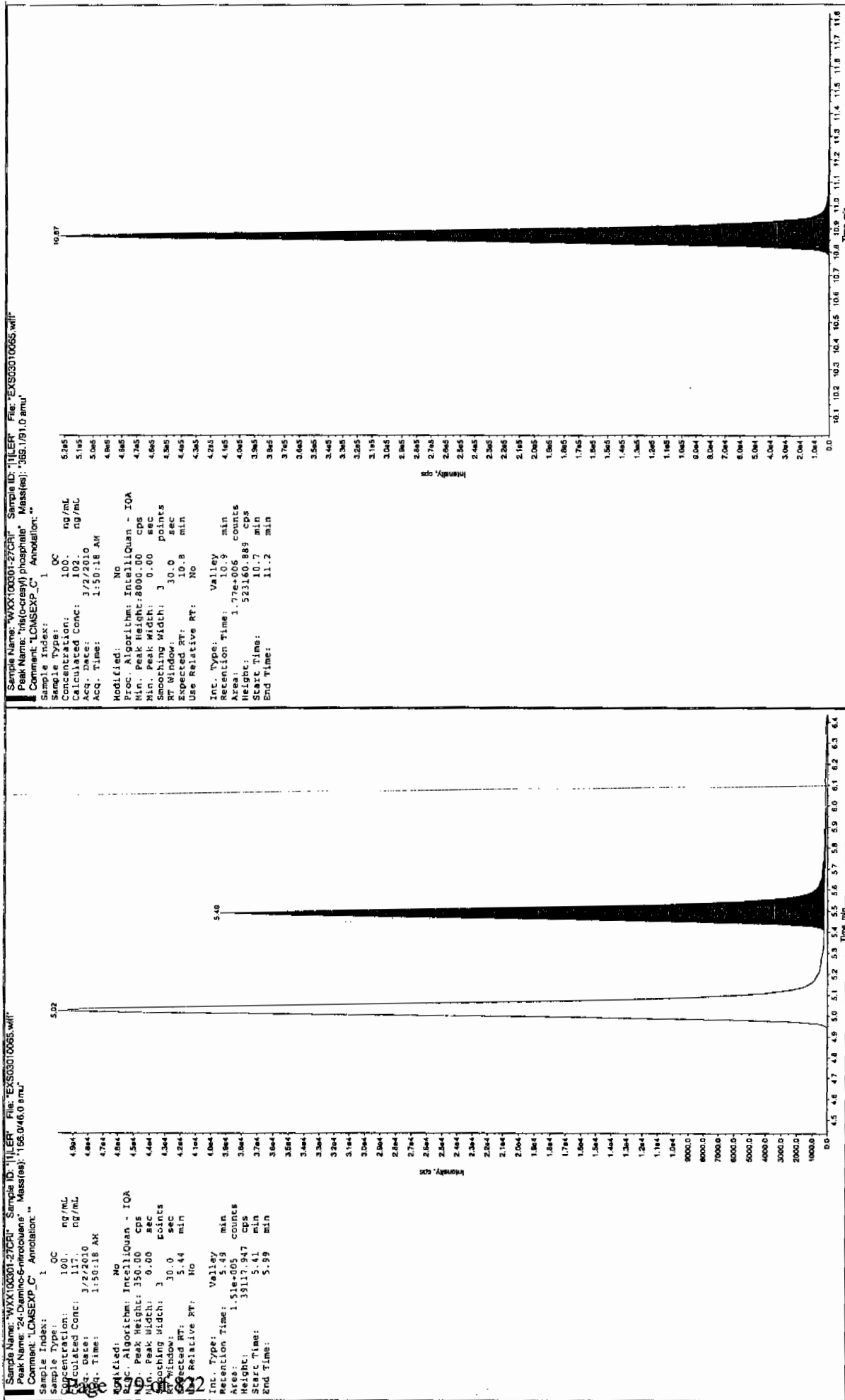
\* Value outside of Recovery Limits

Jan 3/3/10



Have 03/04/10







7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010074.wiff

Analysis Date: 02-MAR-10 04:11

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	500	522	104	
tris(o-cresyl) phosphate	500	498	100	
2,4-Diamino-6-nitrotoluene	500	586	117	
2,6-Diamino-4-nitrotoluene	500	558	112	
3,4-Dinitrotoluene	250	243	97	
3,5-Dinitroaniline	500	499	100	

Recovery Limits:

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

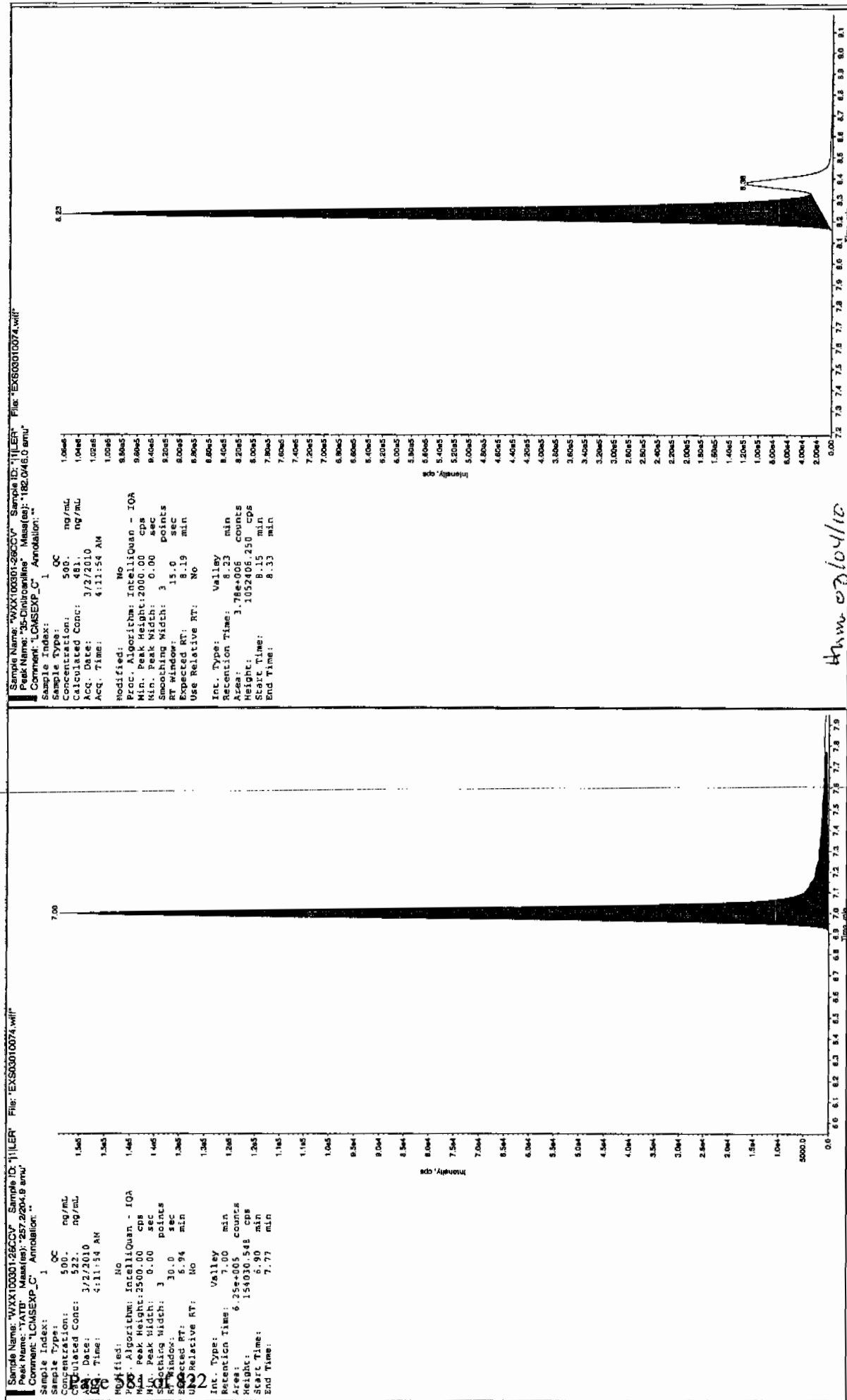
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

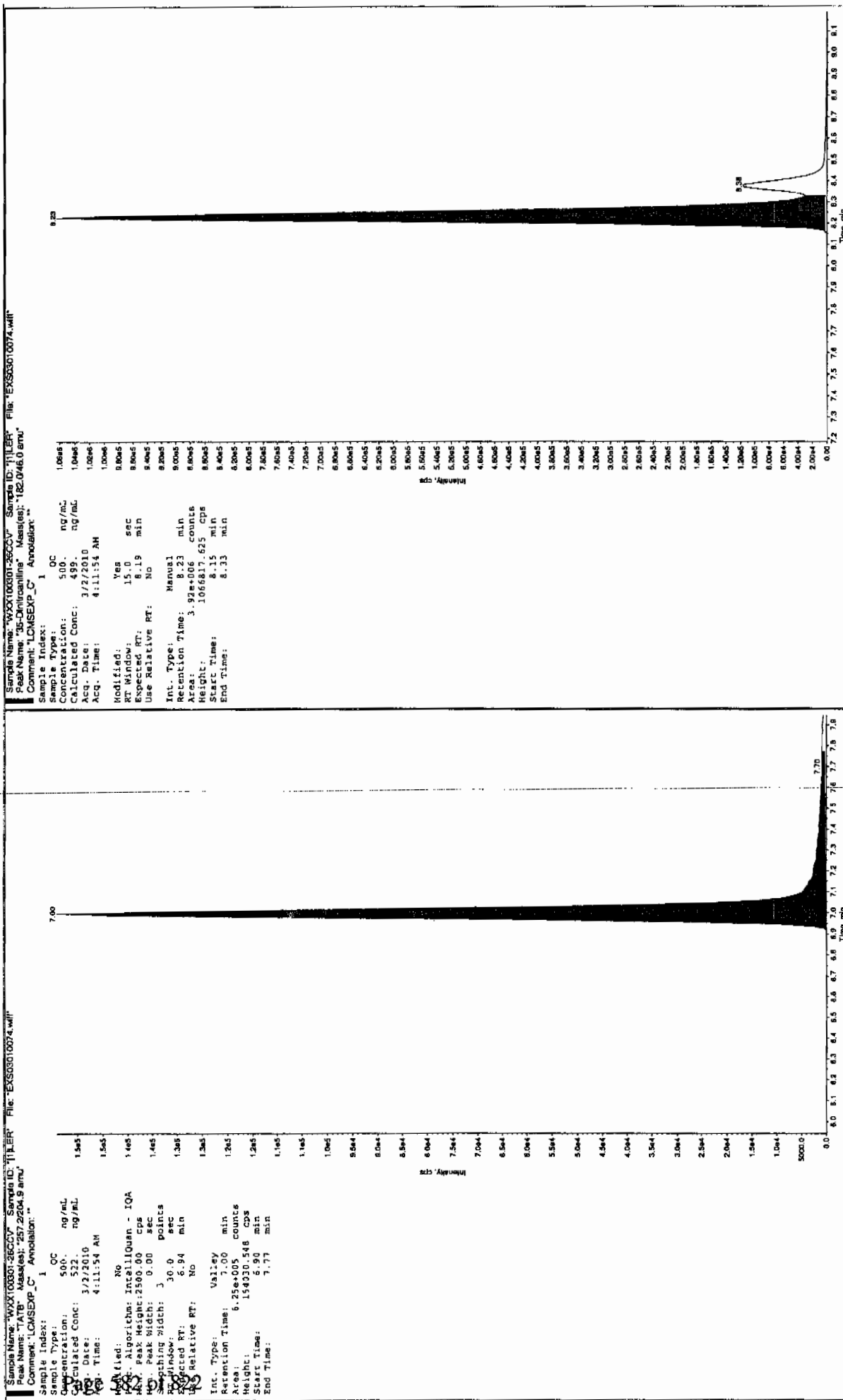
\* Value outside of Recovery Limits

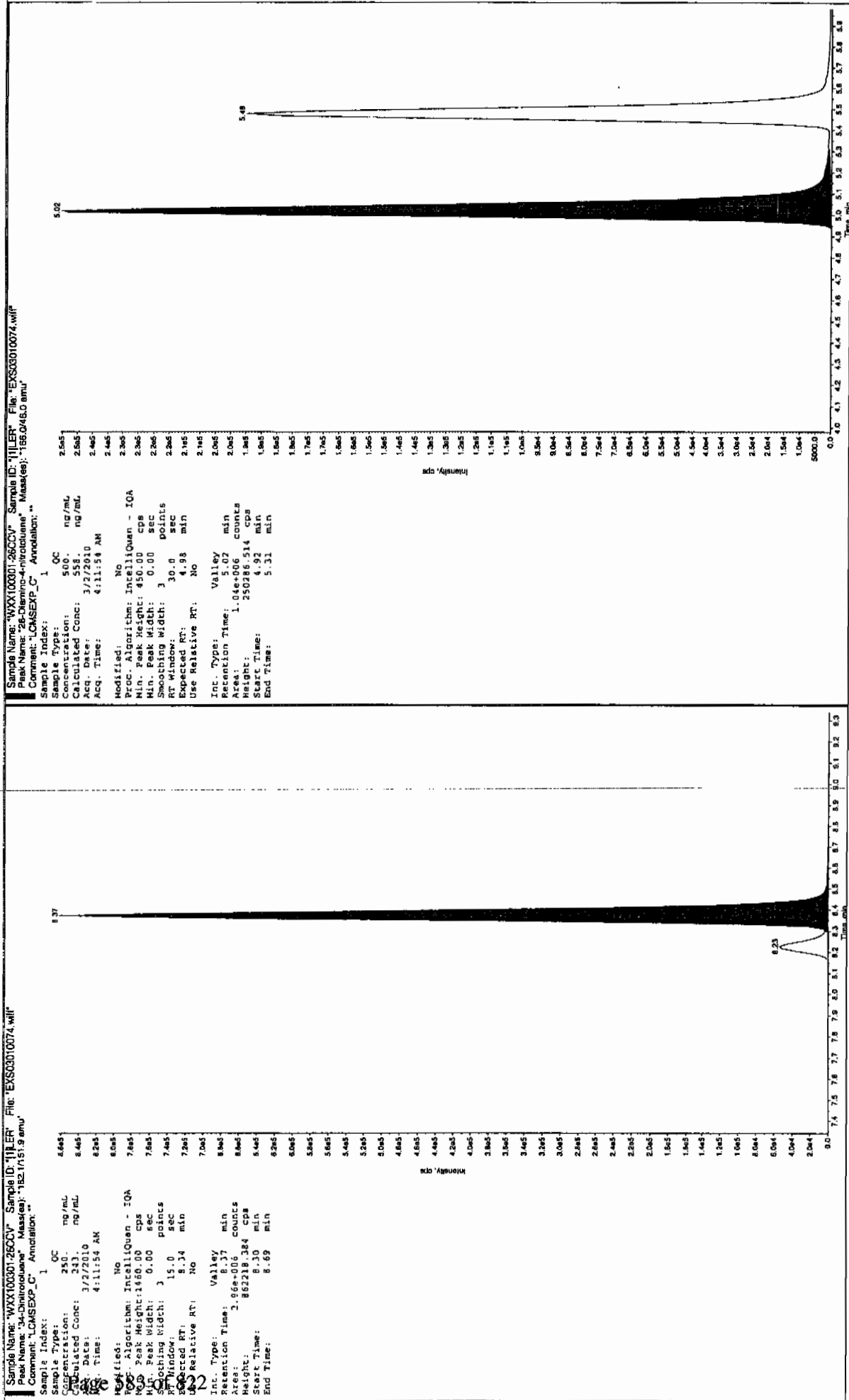
Before Jan 3/3/10

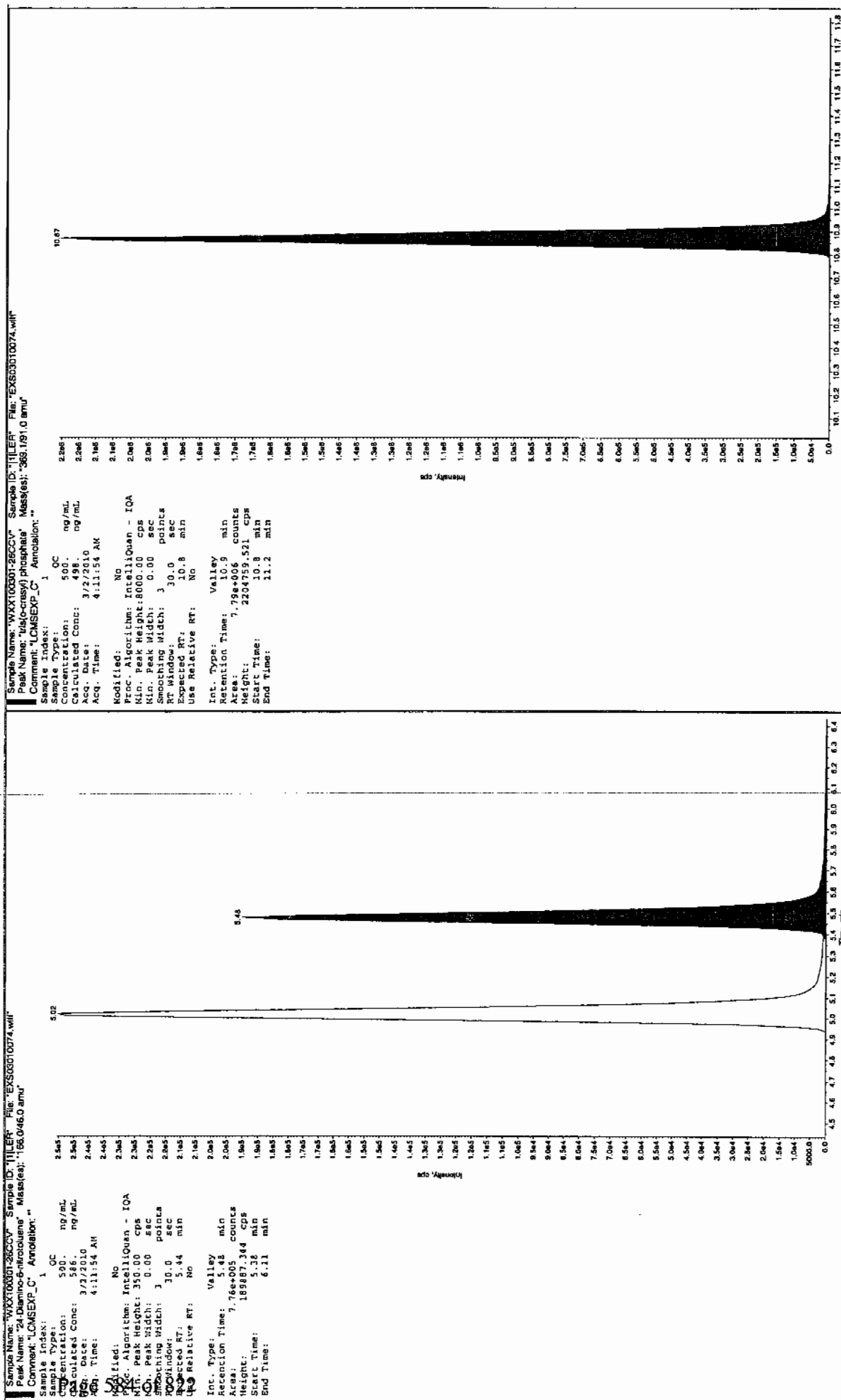


4mm 03/04/10

after Sea 3/8/10







7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010076.wiff

Analysis Date: 02-MAR-10 04:43

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	125	125	
2,6-Diamino-4-nitrotoluene	100	113	113	
3,4-Dinitrotoluene	50	51.9	104	
3,5-Dinitroaniline	100	97.5	98	
TATB	100	107	107	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

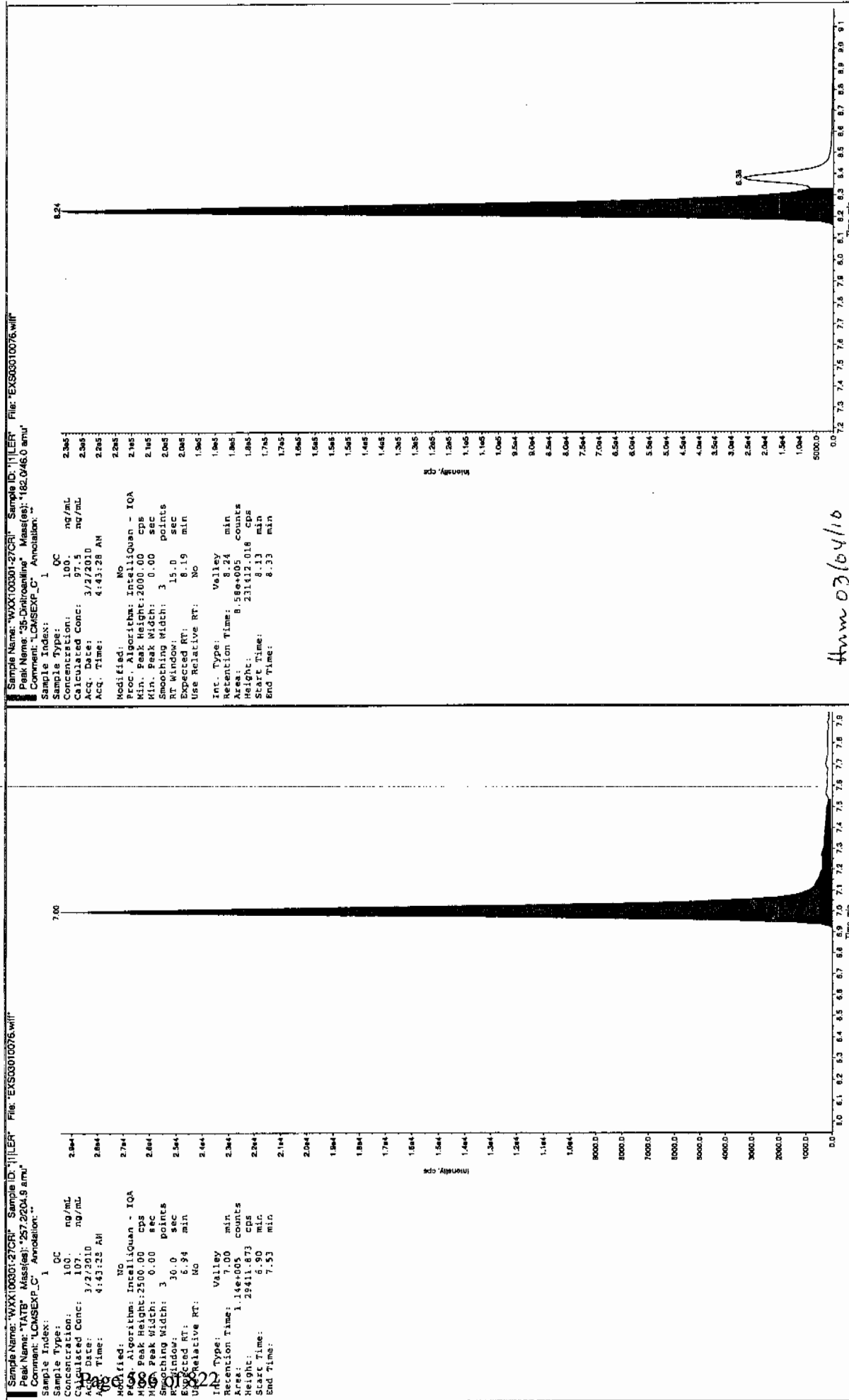
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 50-150%

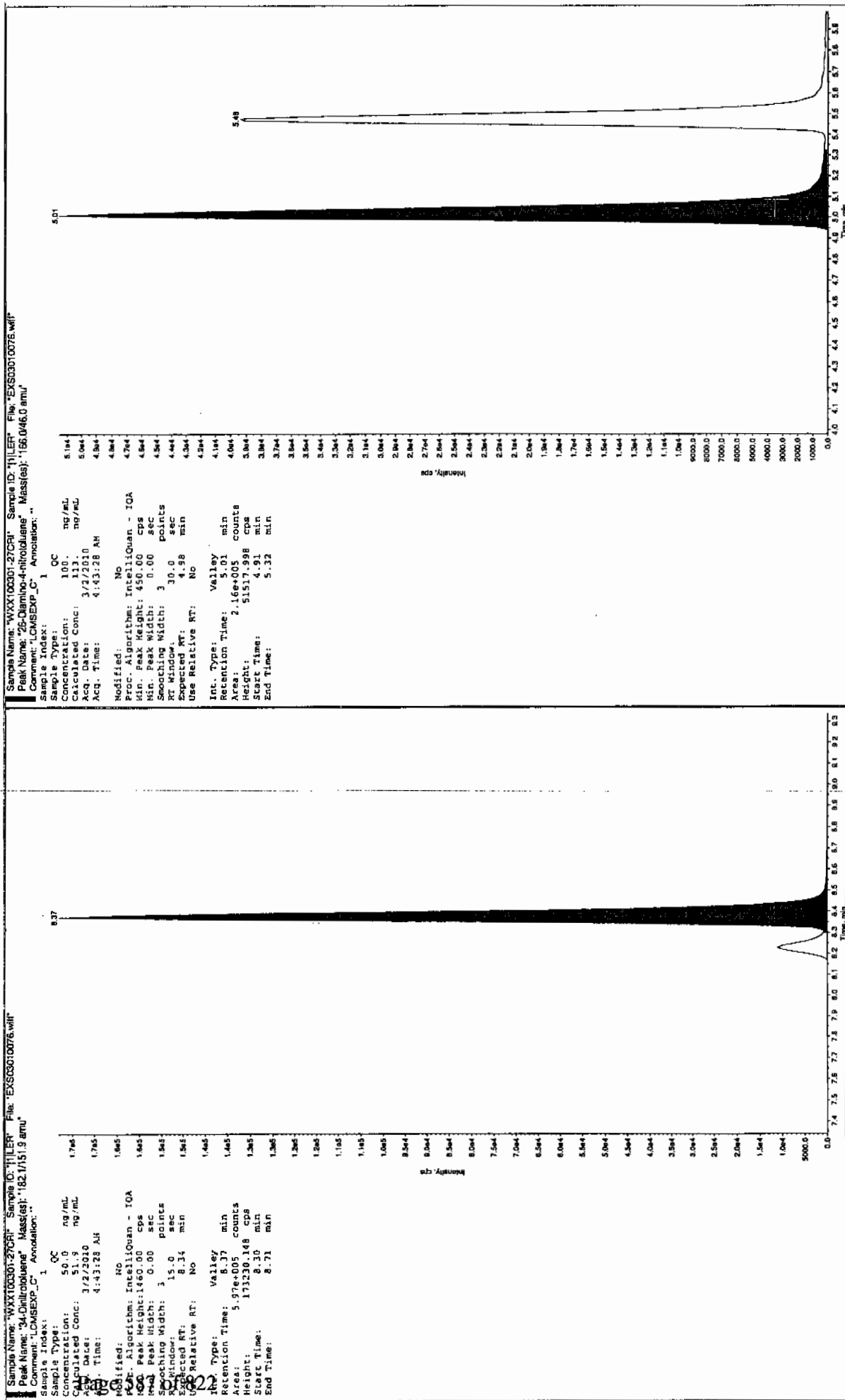
Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

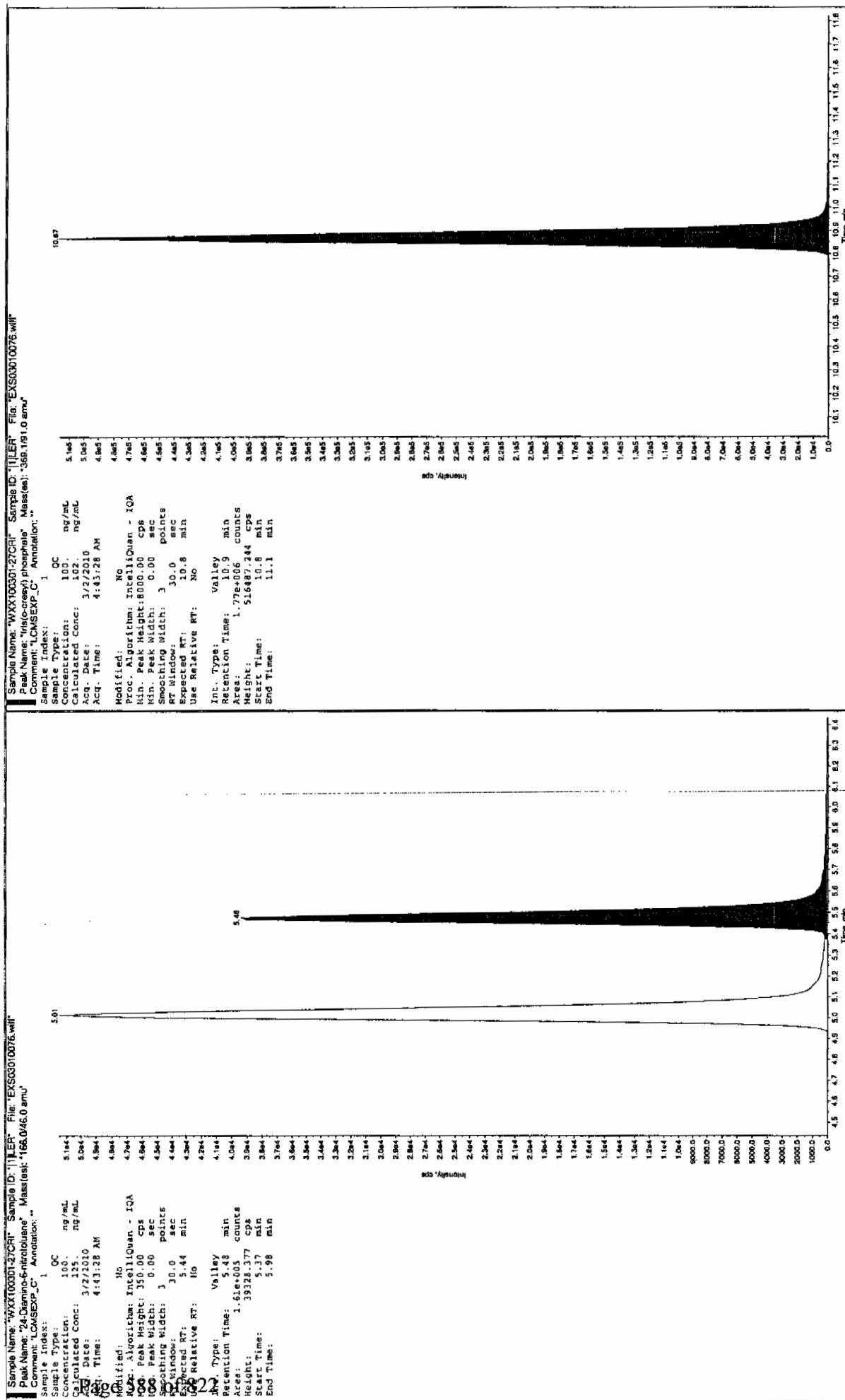
\* Value outside of Recovery Limits

See 3/3/10









7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010087.wiff

Analysis Date: 02-MAR-10 07:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	521	104	
2,6-Diamino-4-nitrotoluene	500	543	109	
3,4-Dinitrotoluene	250	239	95	
3,5-Dinitroaniline	500	504	101	
TATB	500	504	101	
tris(o-cresyl) phosphate	500	492	98	

Recovery Limits:

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

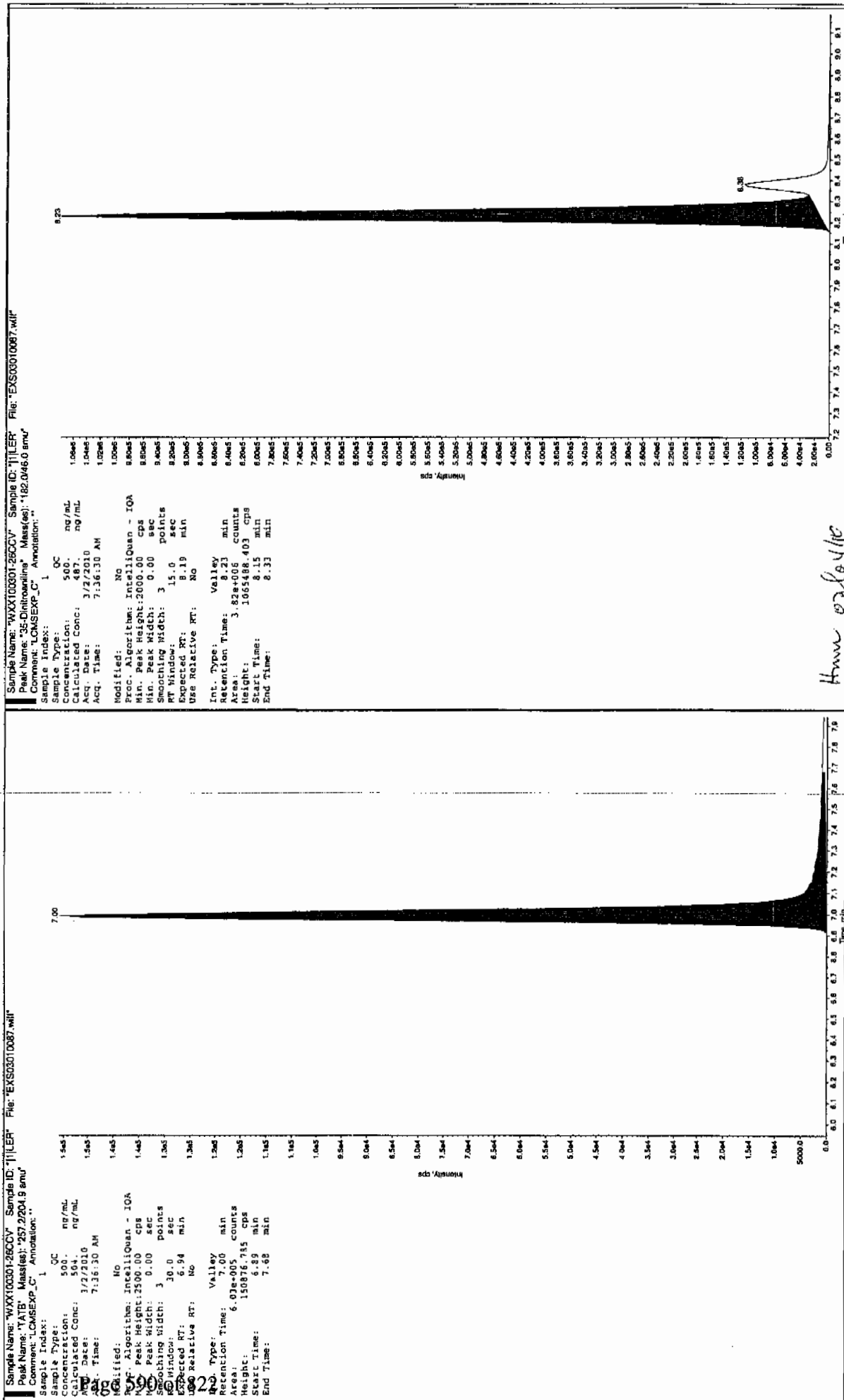
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

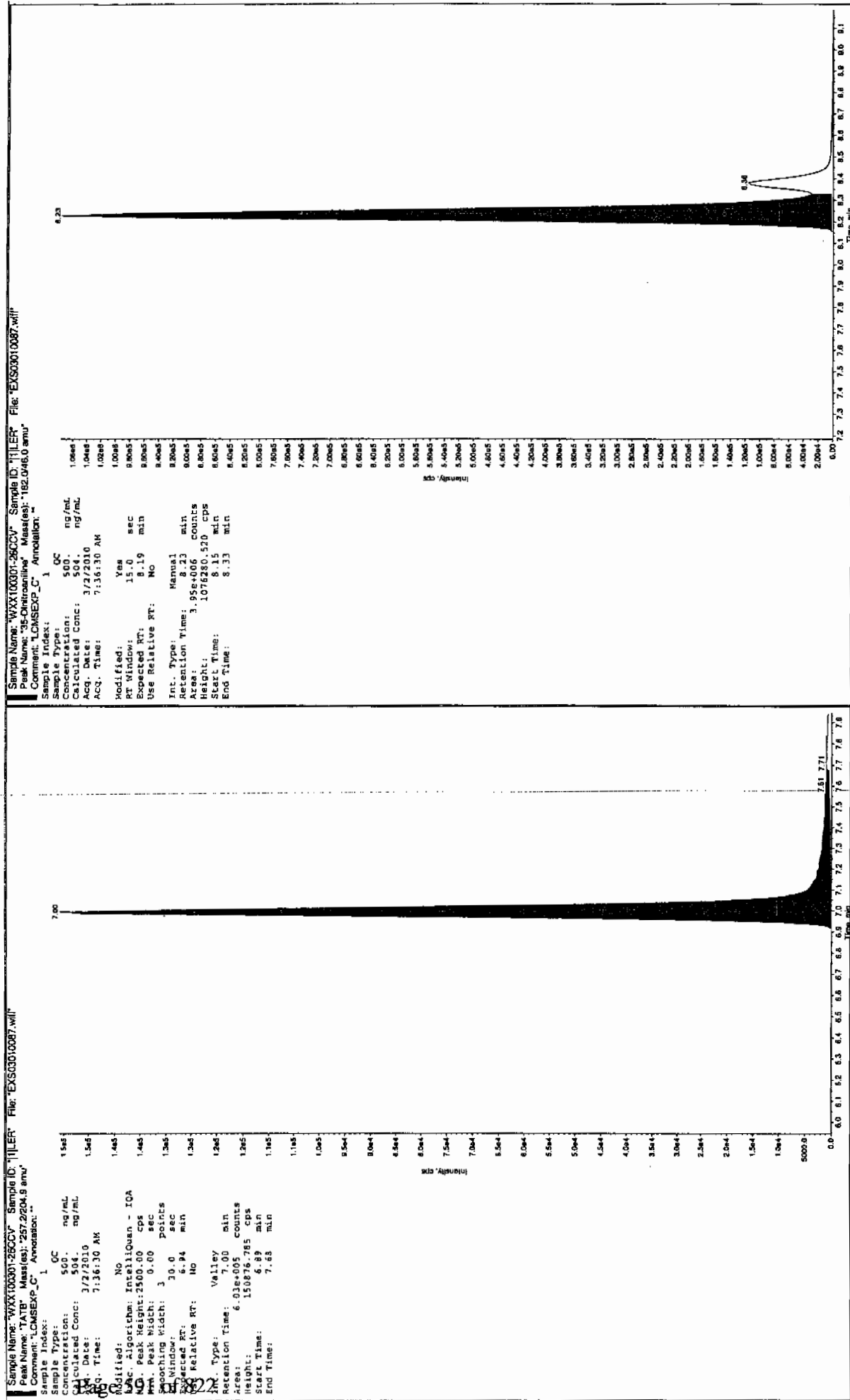
\* Value outside of Recovery Limits

Before Jan 31/10

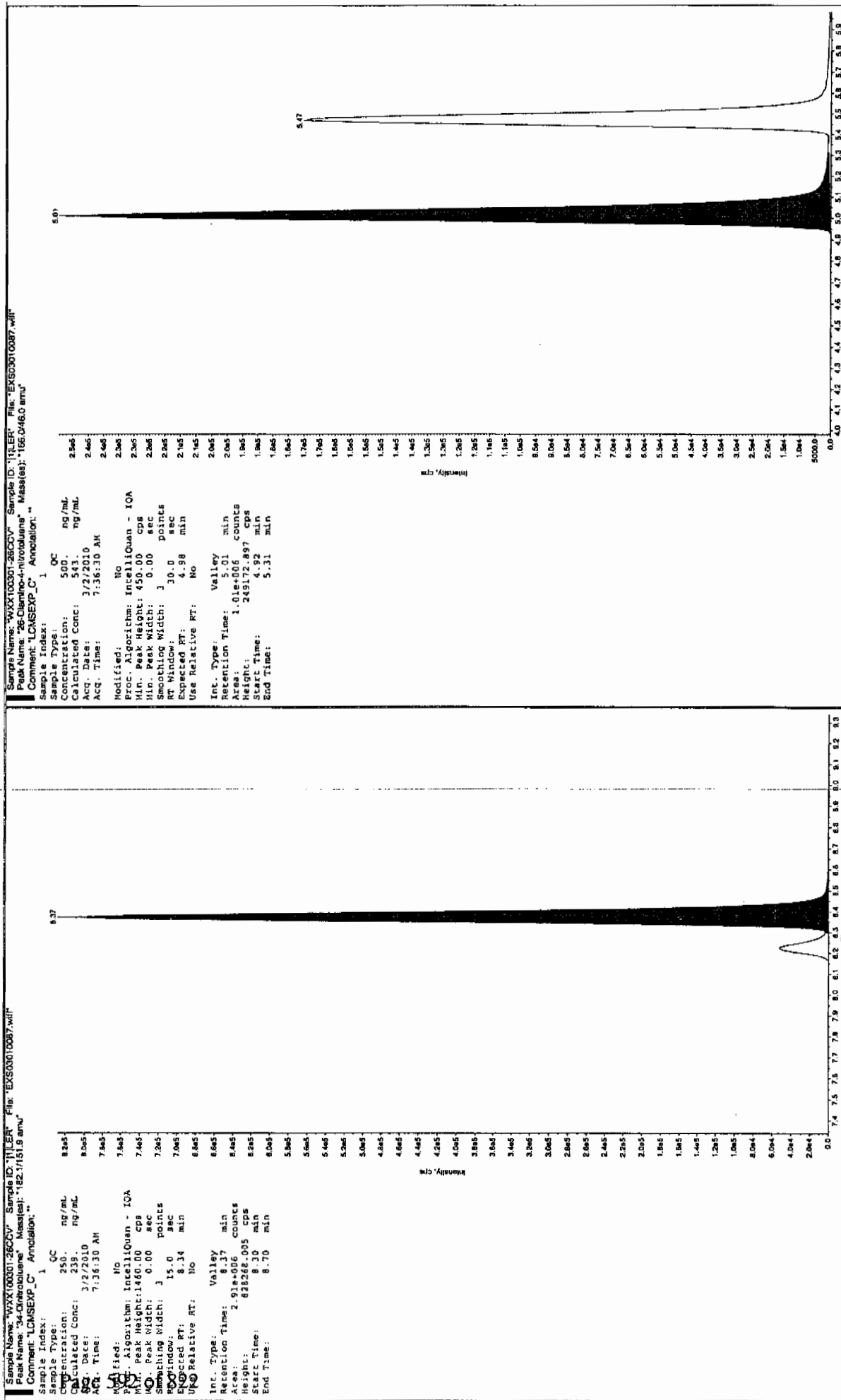


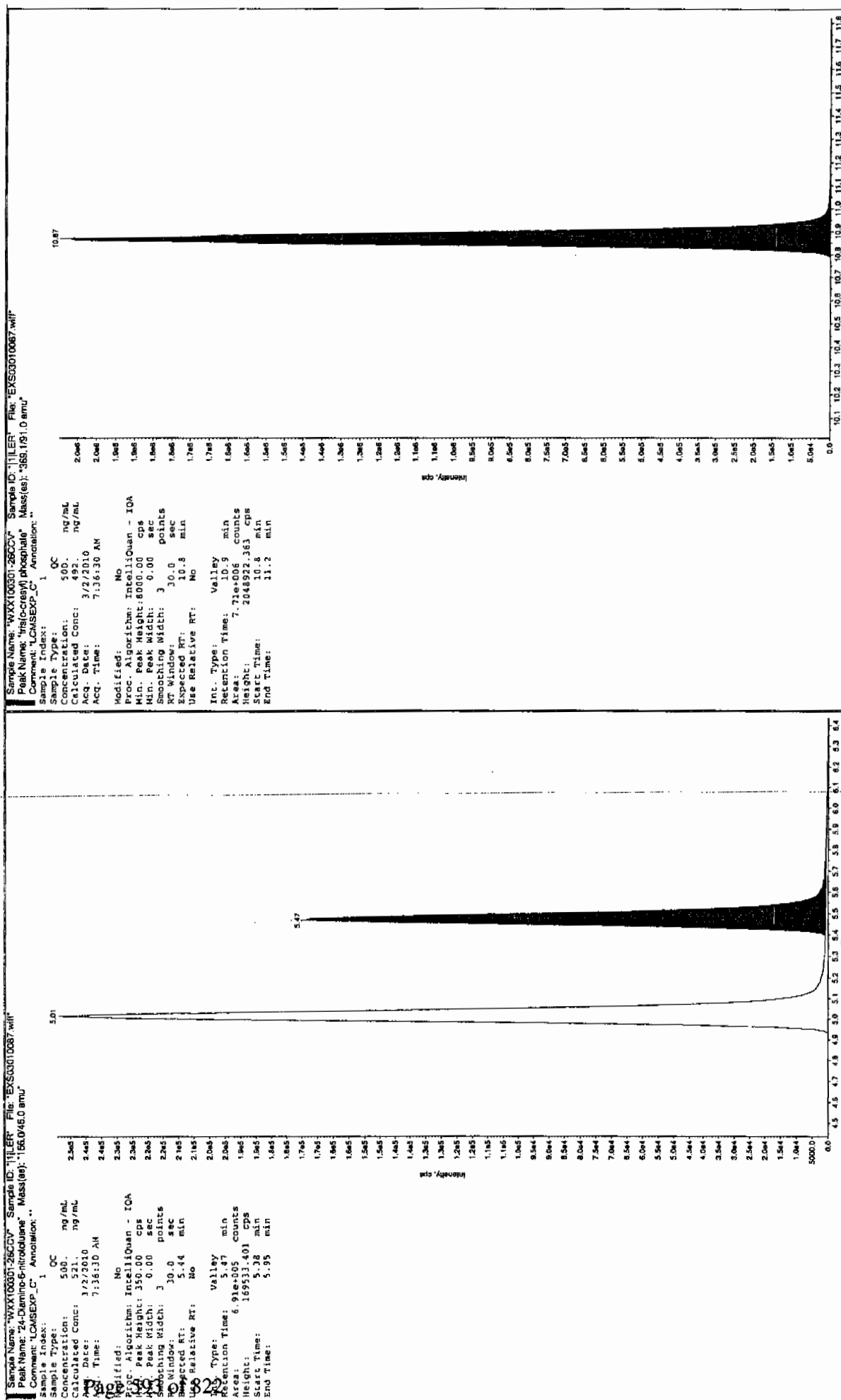
Hum 07/04/10

after Jan 3/3/10



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





7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010089.wiff

Analysis Date: 02-MAR-10 08:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	117	117	
2,6-Diamino-4-nitrotoluene	100	113	113	
3,4-Dinitrotoluene	50	52.9	106	
3,5-Dinitroaniline	100	94.2	94	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	93.9	94	

Recovery Limits:

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

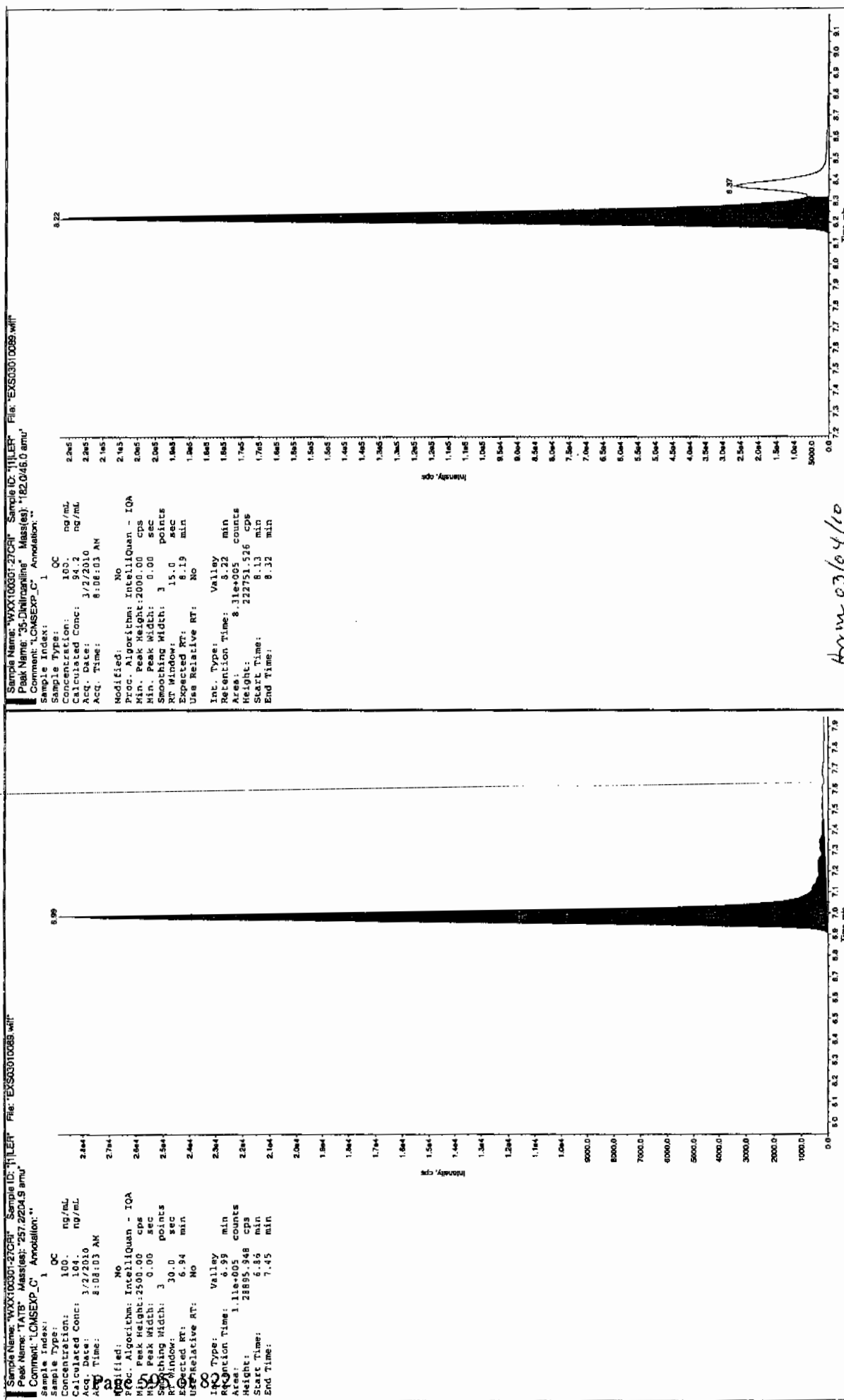
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

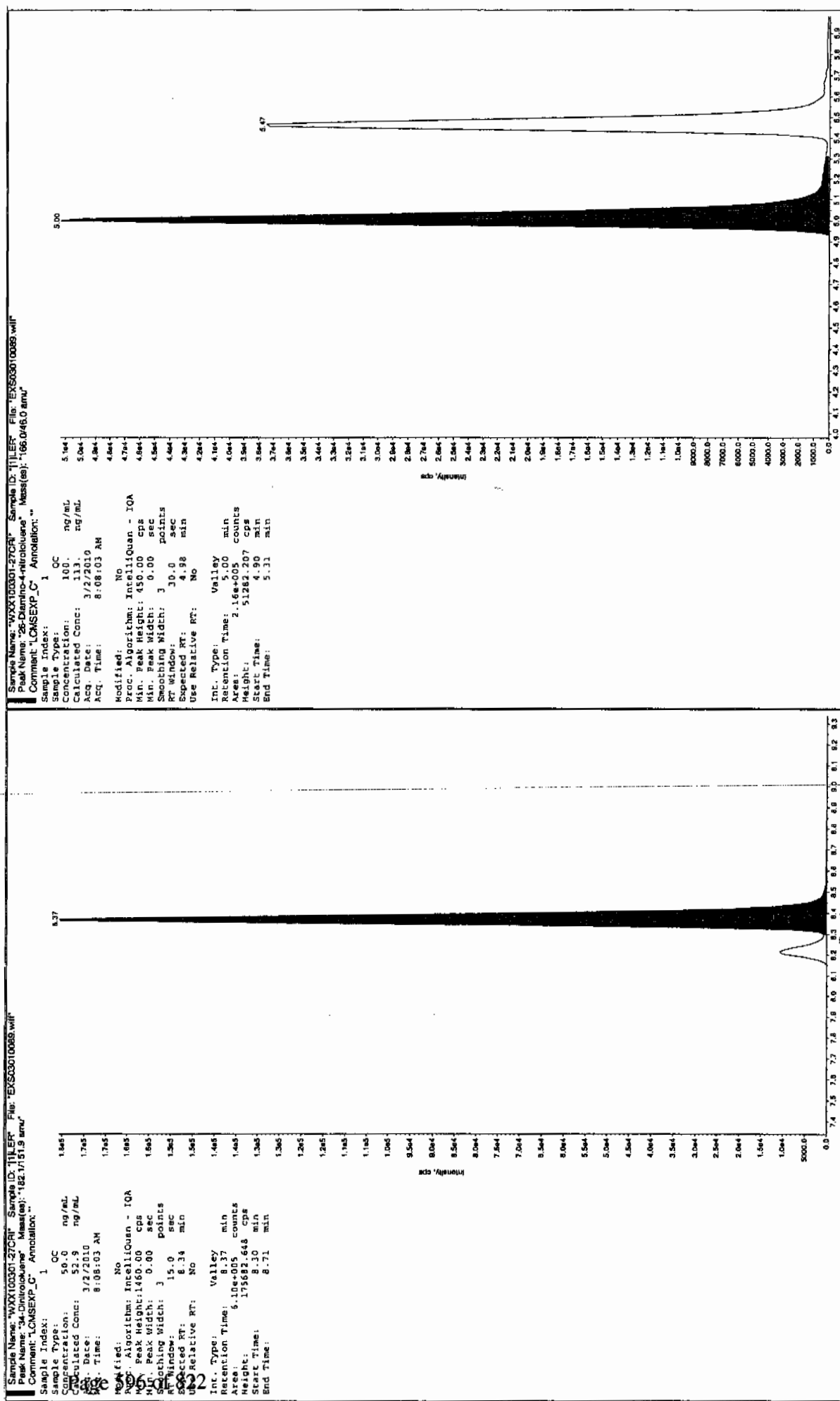
Run 3/3/10

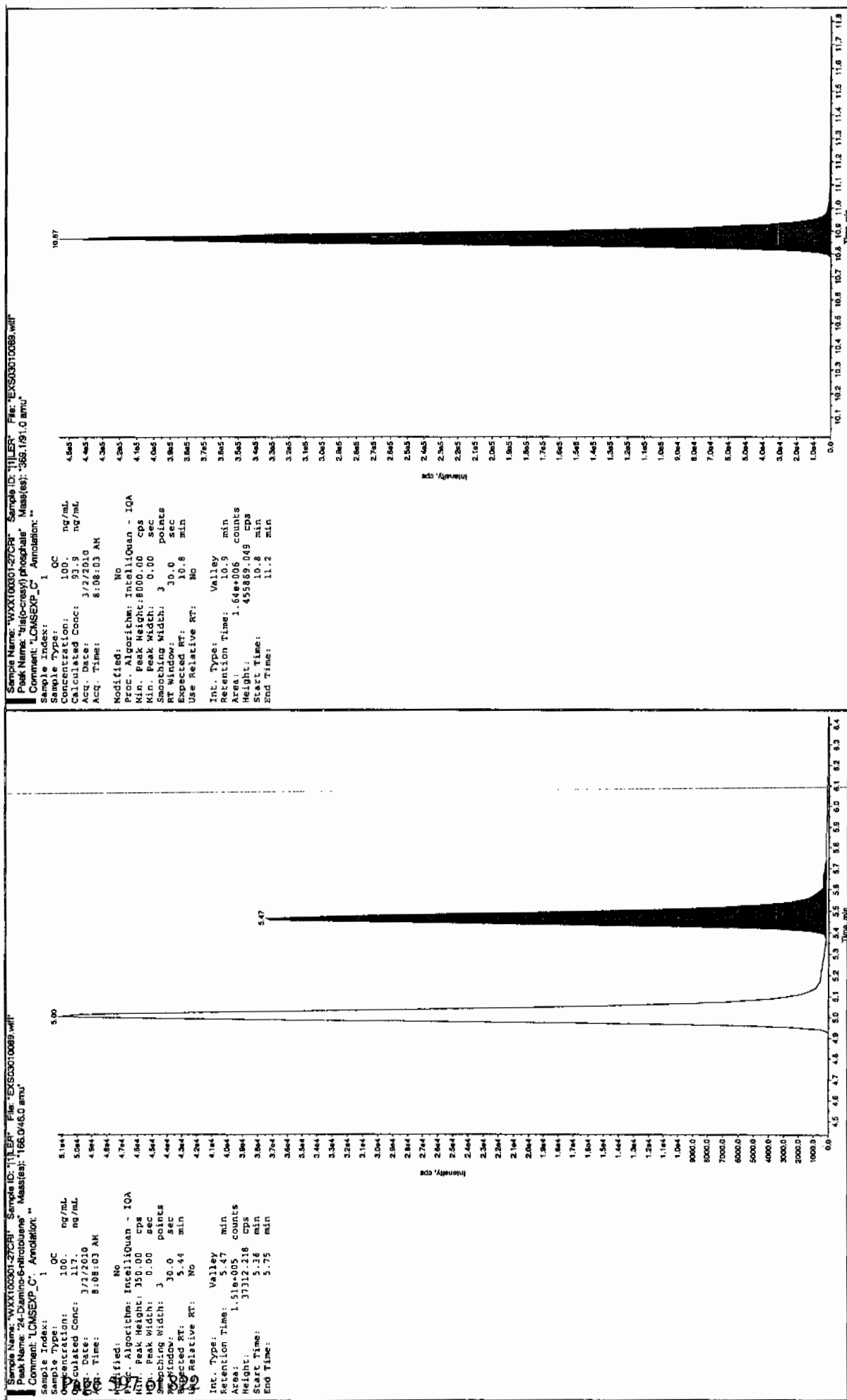


\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Ann 03/04/10







7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010100.wiff

Analysis Date: 02-MAR-10 11:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	518	104	
2,6-Diamino-4-nitrotoluene	500	509	102	
3,4-Dinitrotoluene	250	228	91	
3,5-Dinitroaniline	500	486	97	
TATB	500	516	103	
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 ,

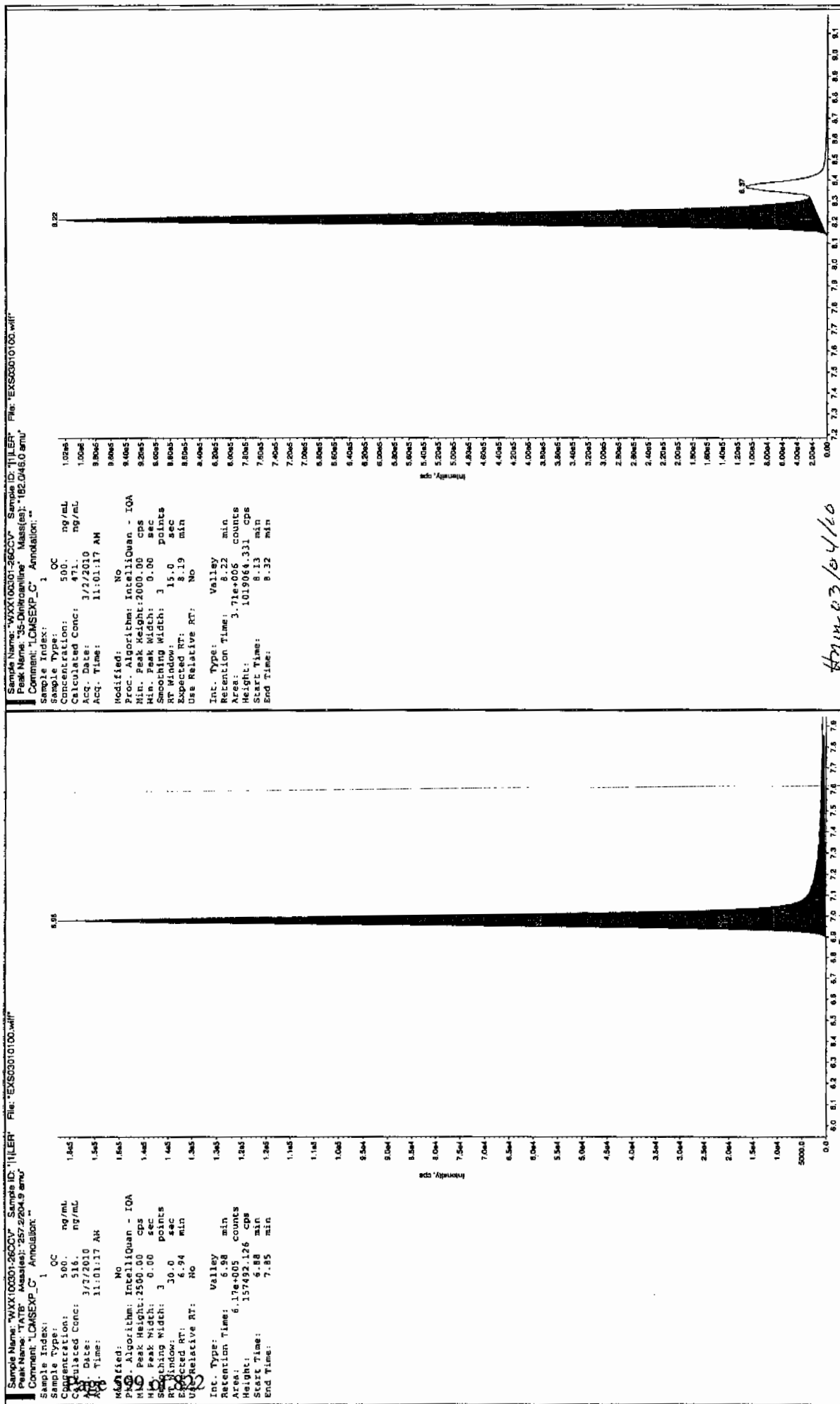
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

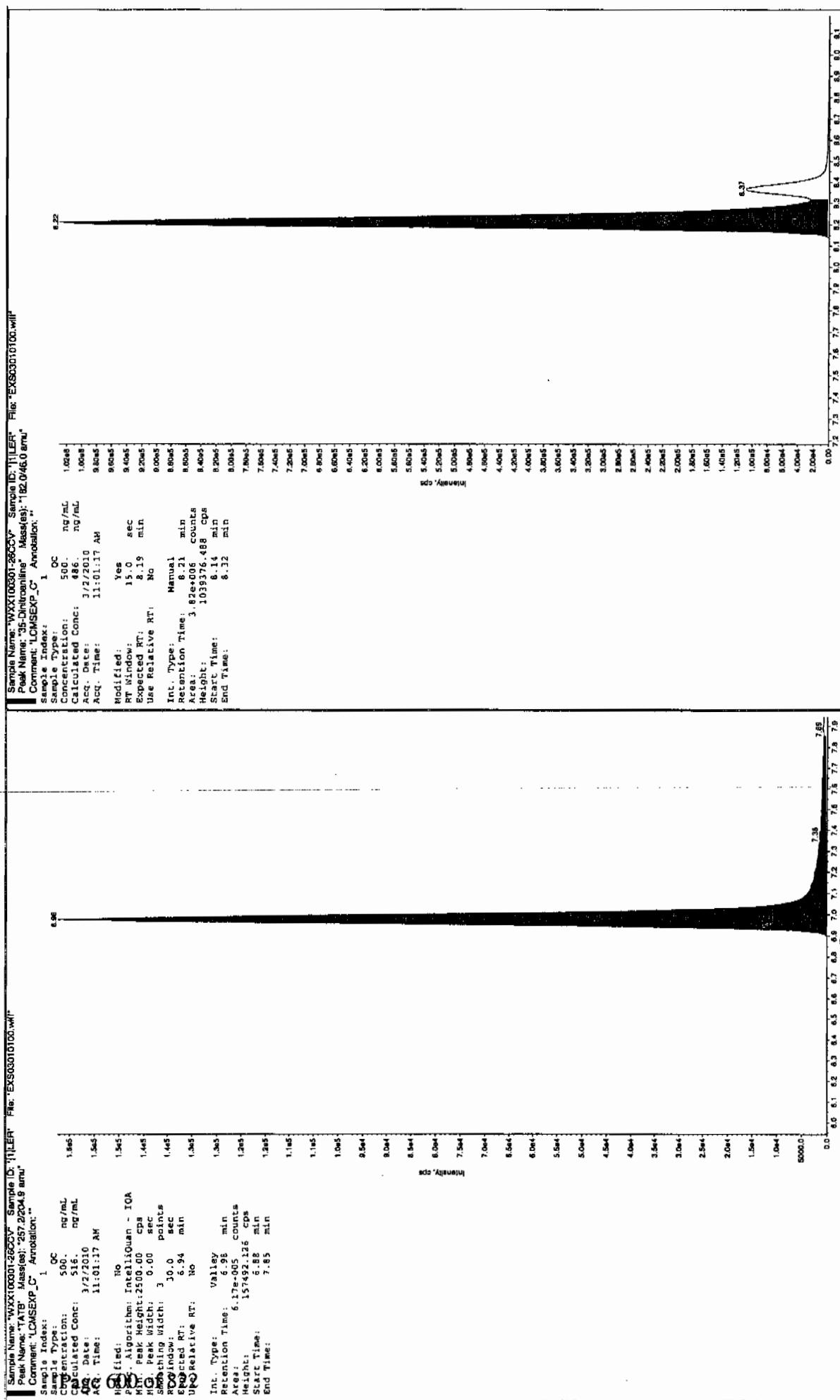
\* Value outside of Recovery Limits

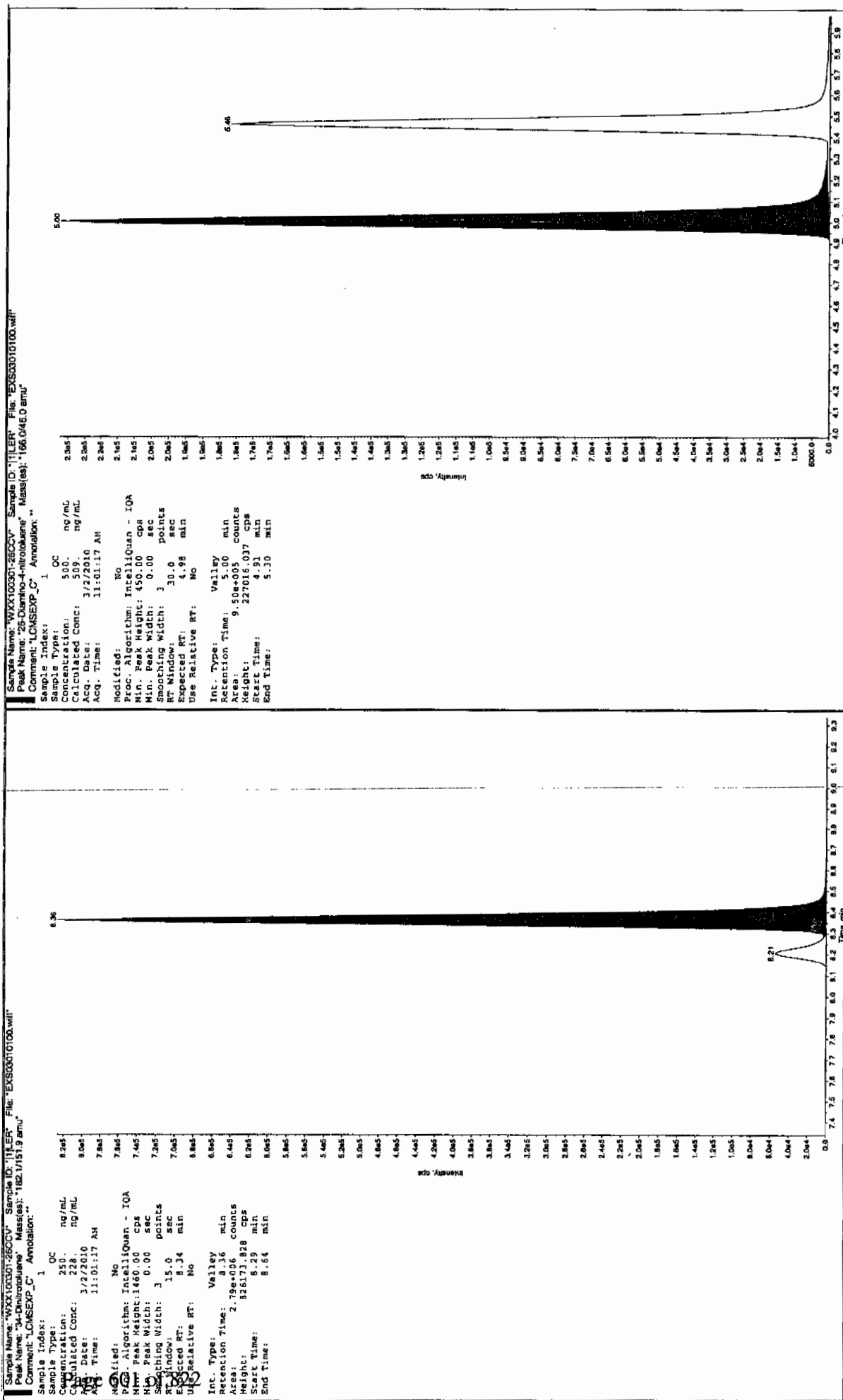
Before Run 3/3/10

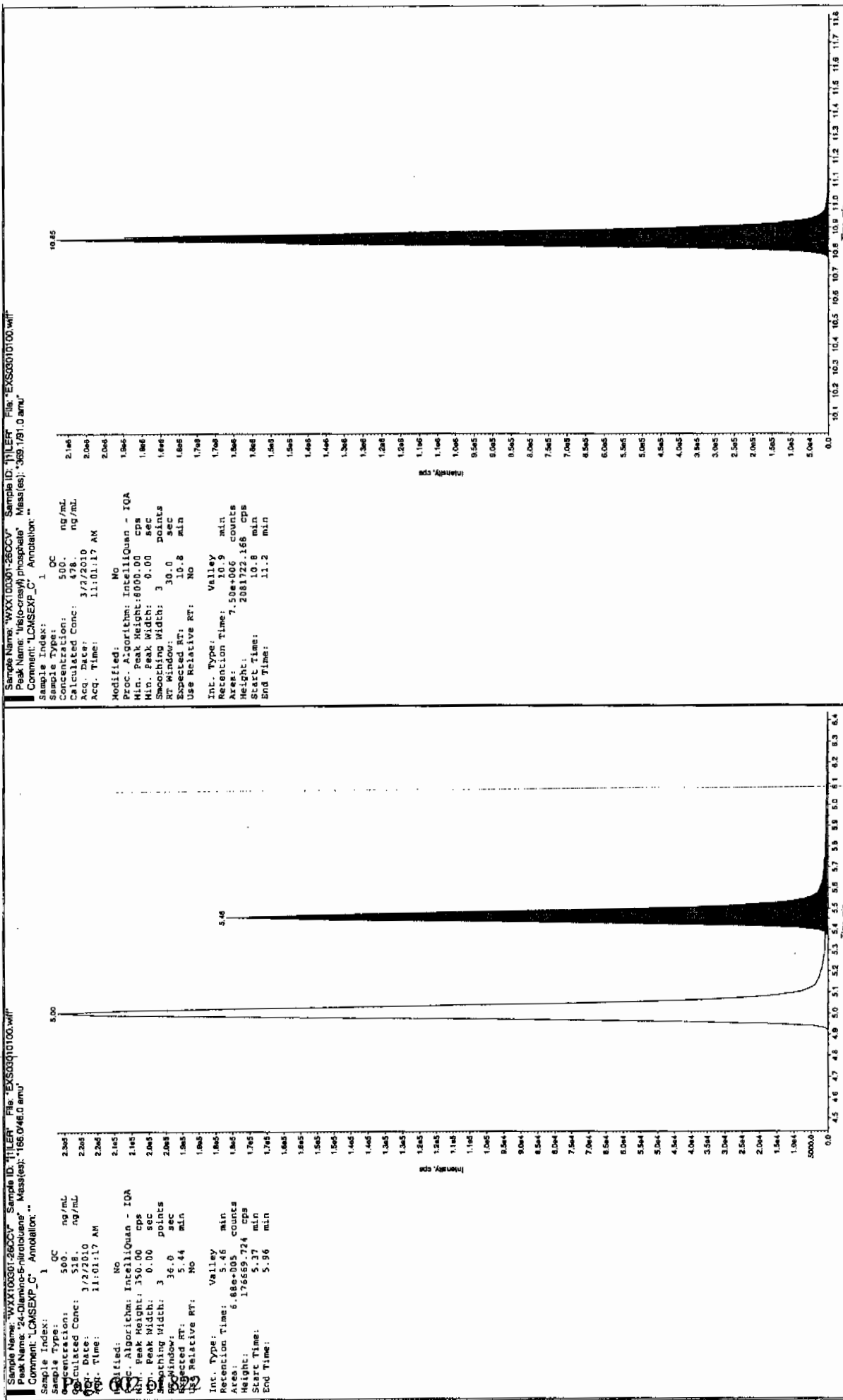


Run 03/04/10

after Jan 3/3/10







7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010102.wiff

Analysis Date: 02-MAR-10 11:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	108	108	
2,6-Diamino-4-nitrotoluene	100	106	106	
3,4-Dinitrotoluene	50	52.1	104	
3,5-Dinitroaniline	100	94.3	94	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	97	97	

Recovery Limits:

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

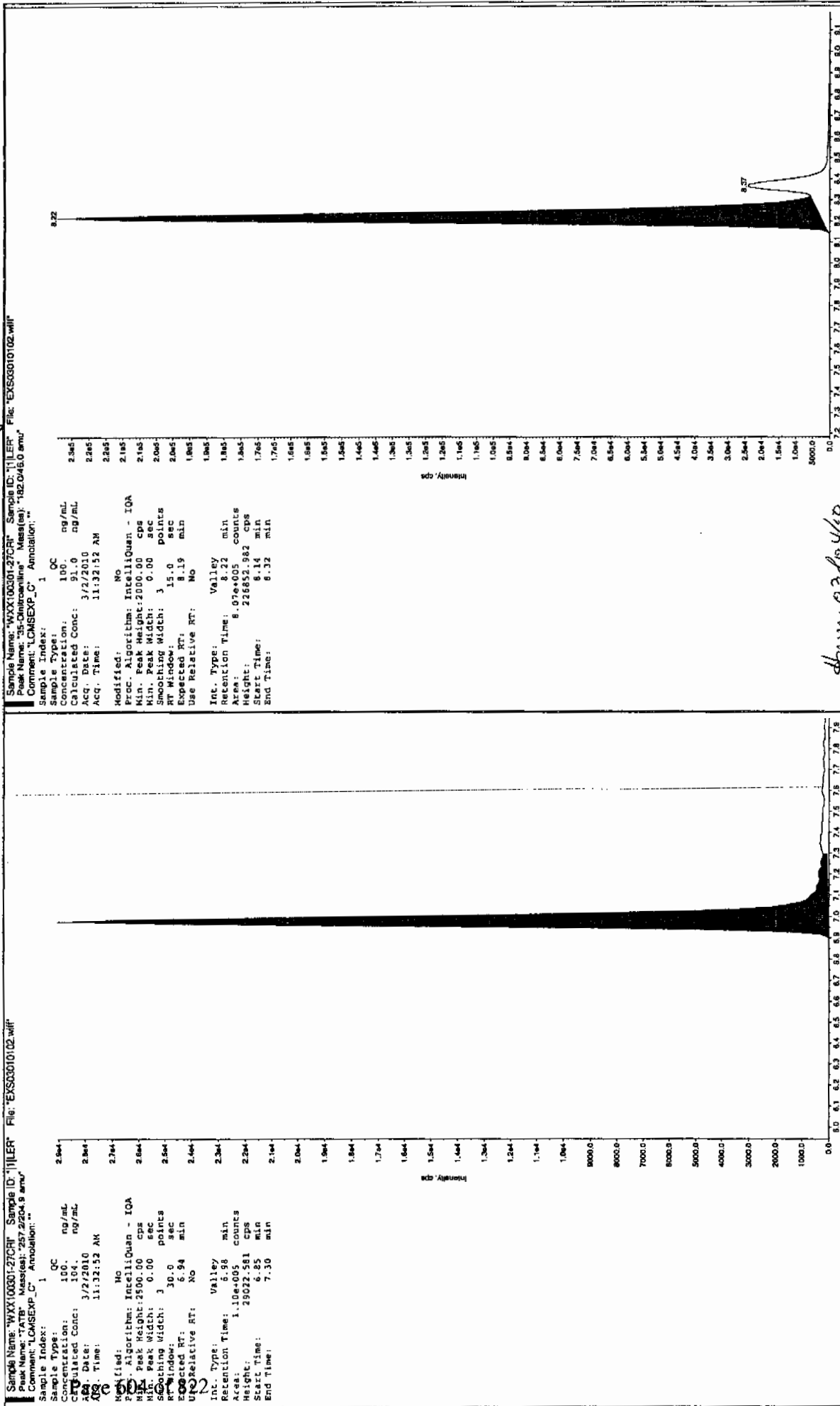
Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

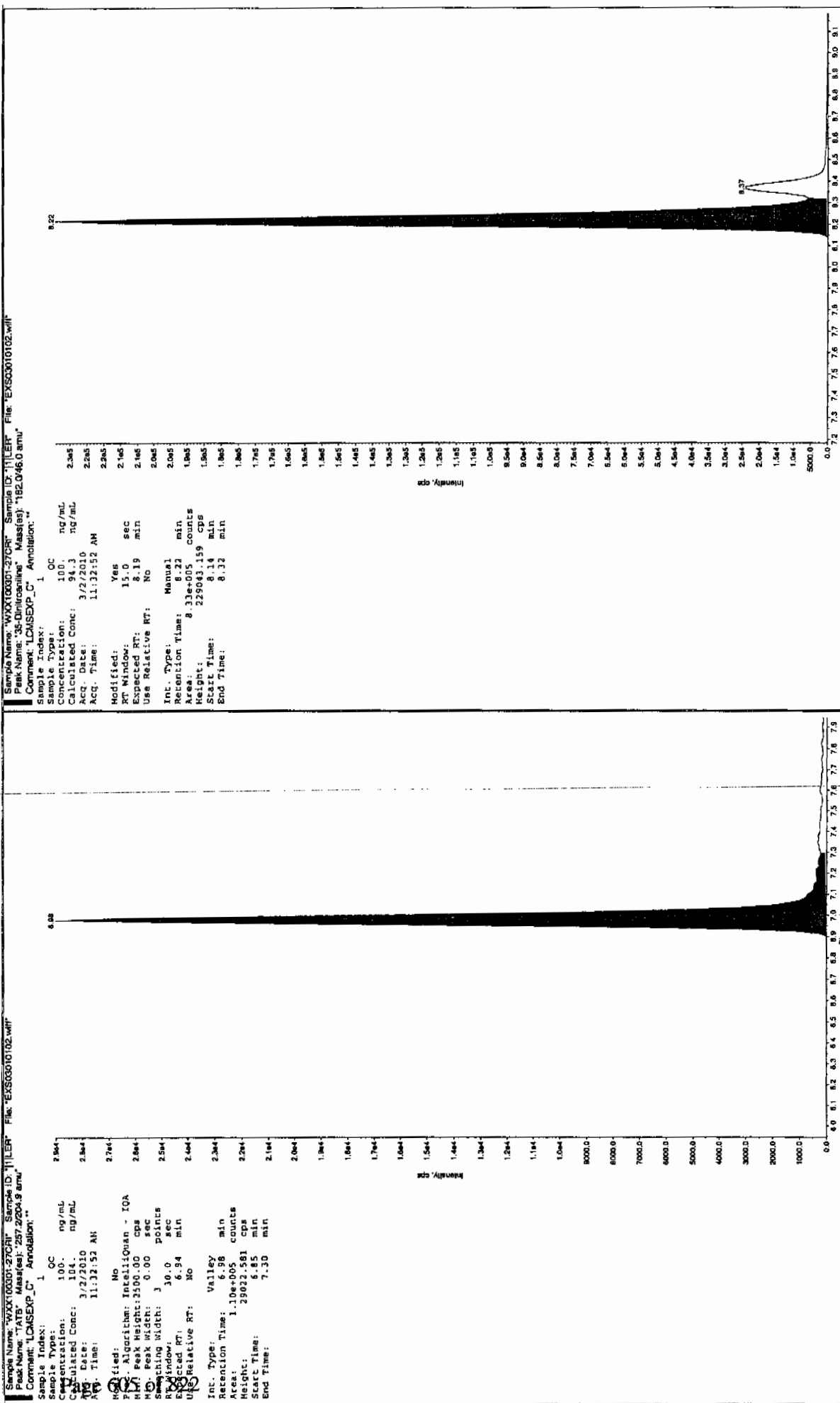


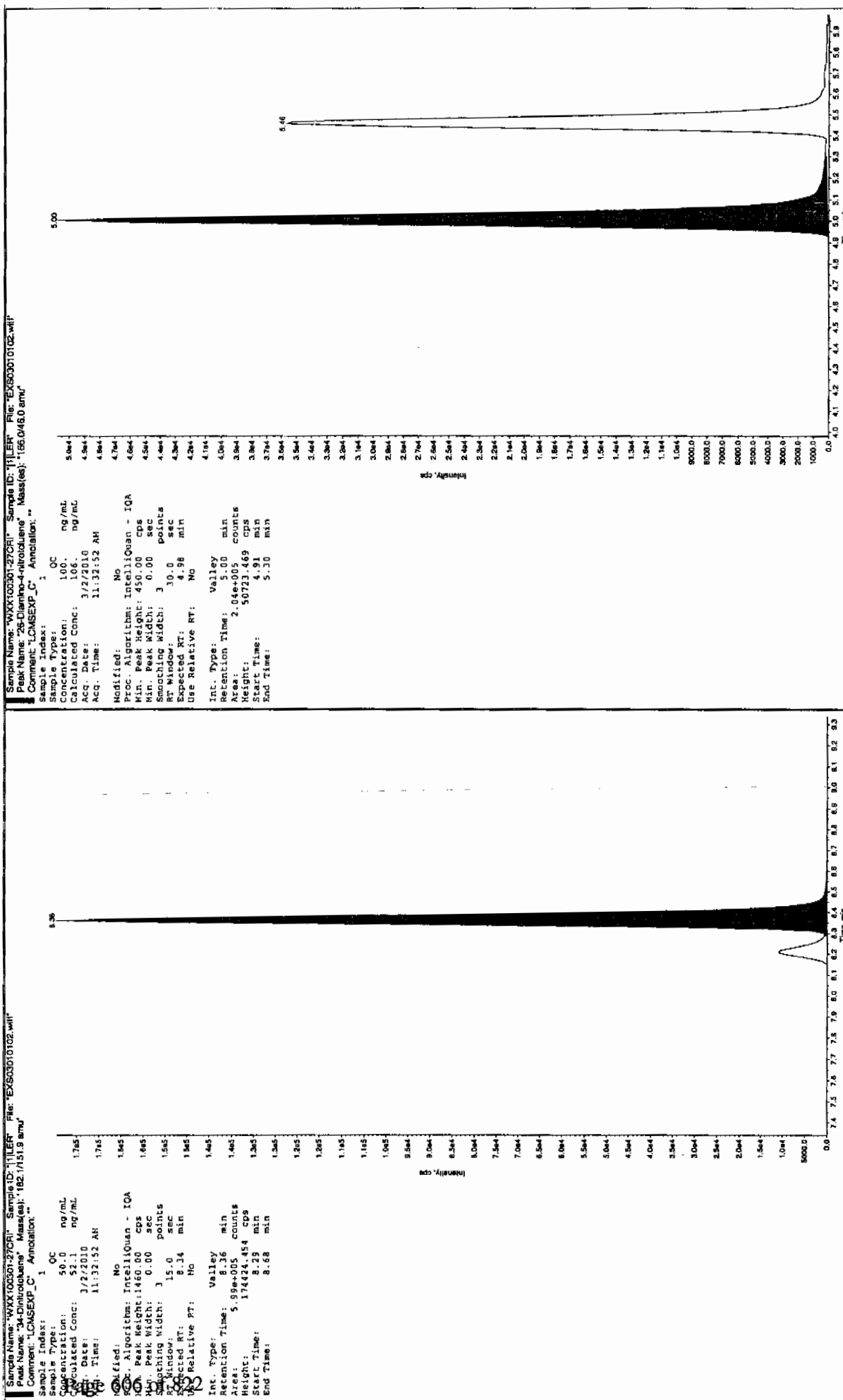
Before Jan 31/10

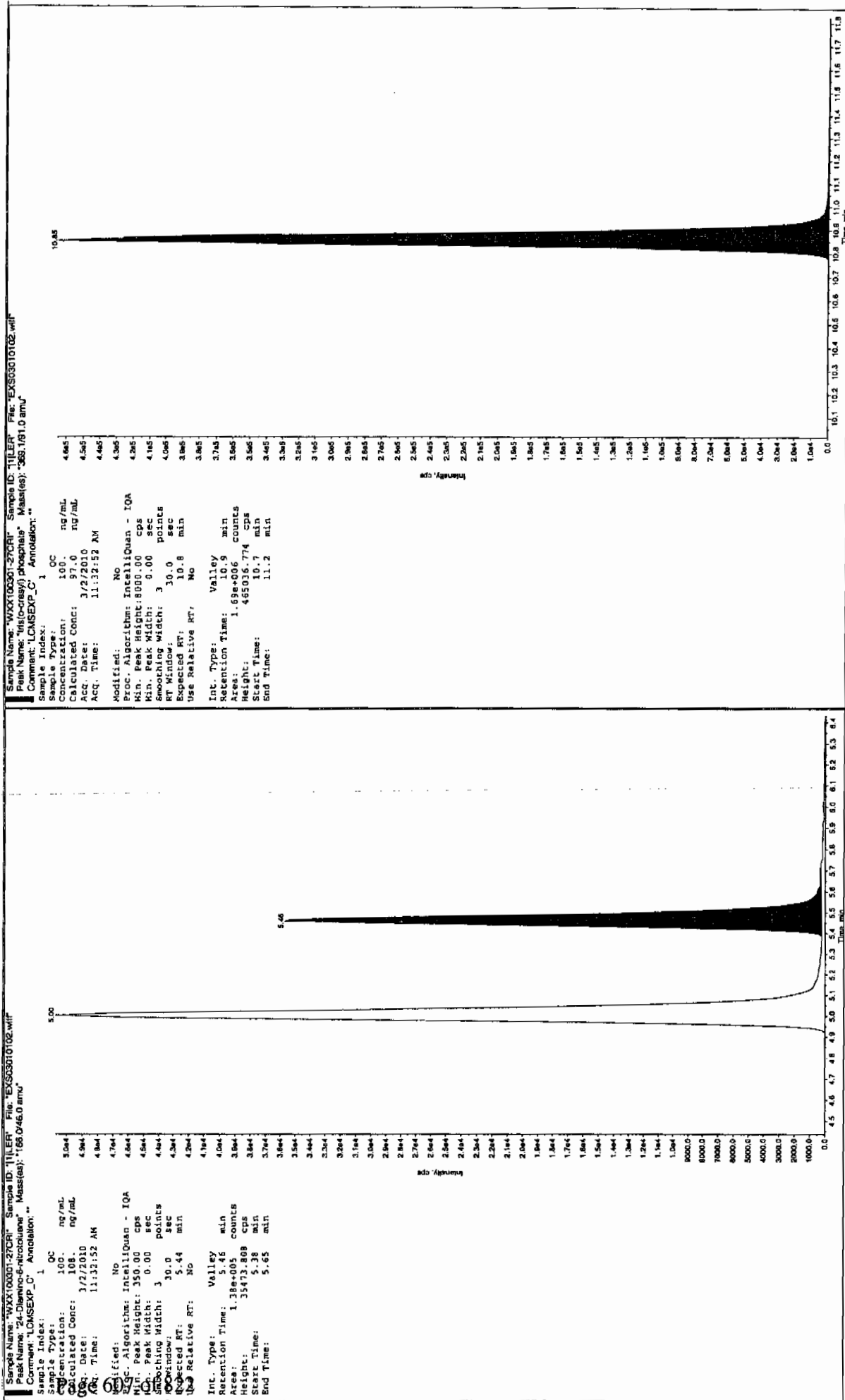


After 03/04/10

01/12/10  
m. J. J. J.







7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010111.wiff

Analysis Date: 02-MAR-10 13:54

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	583	117	
2,6-Diamino-4-nitrotoluene	500	569	114	
3,4-Dinitrotoluene	250	229	91	
3,5-Dinitroaniline	500	466	93	
TATB	500	461	92	
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 ,

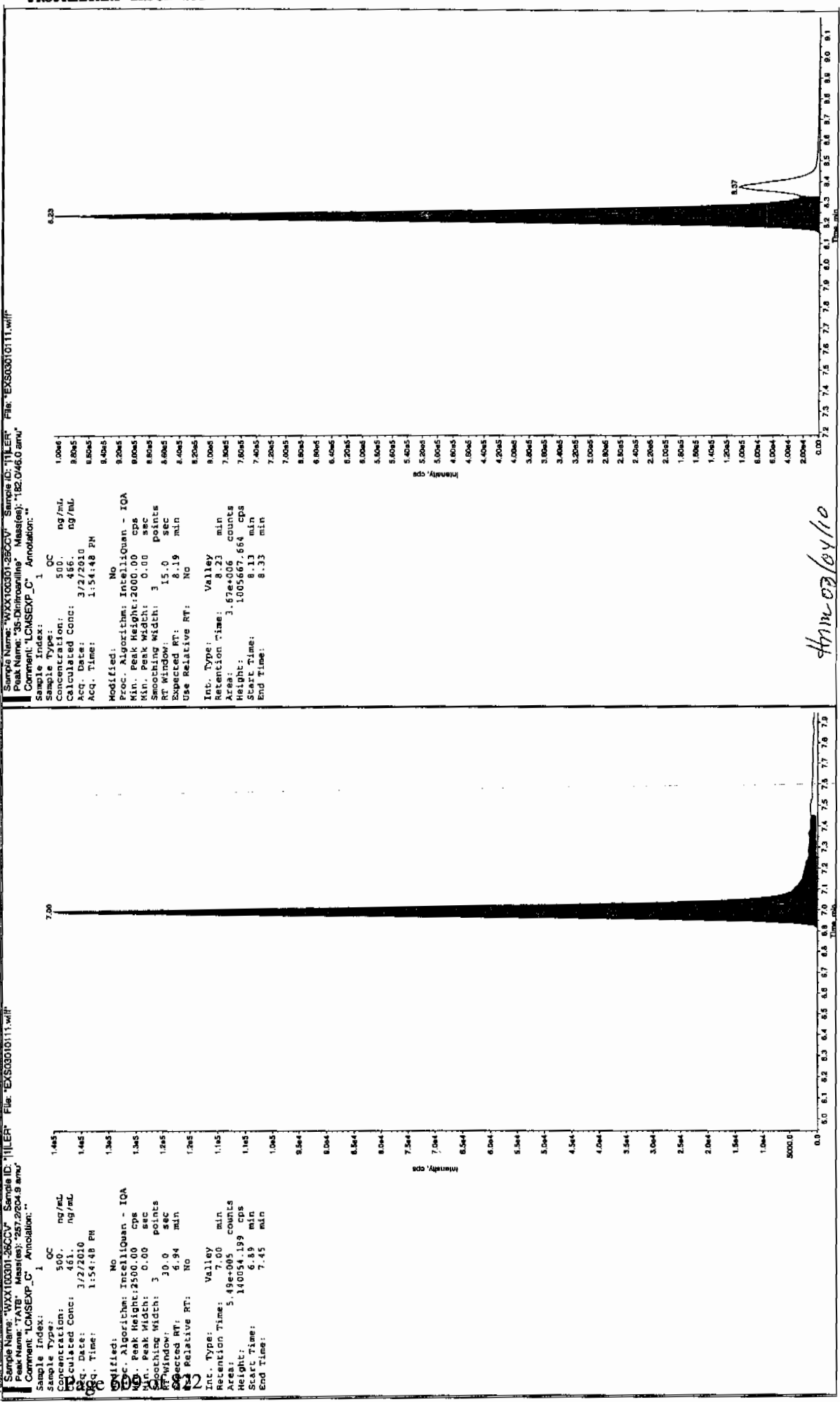
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

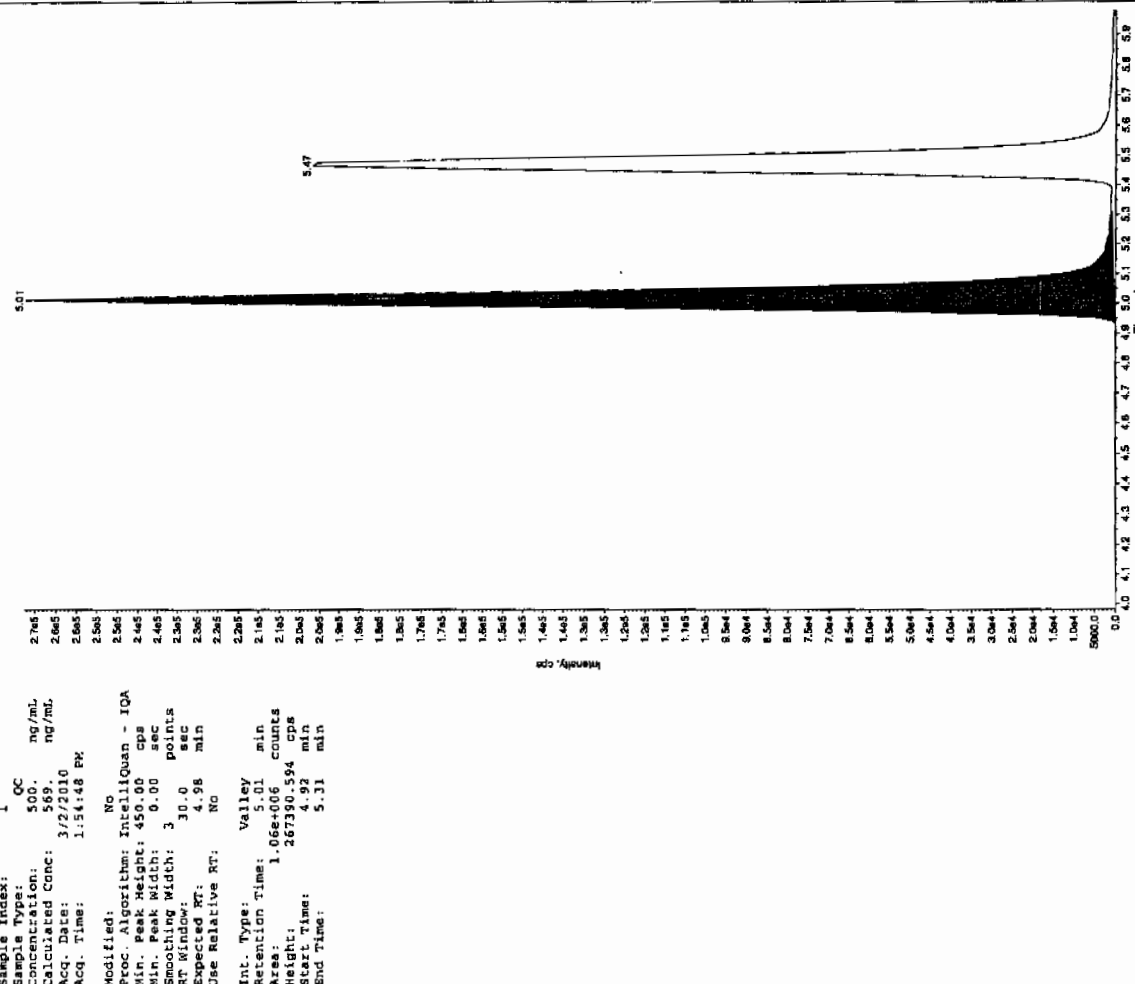
# Column used to flag Recovery outside of Limits

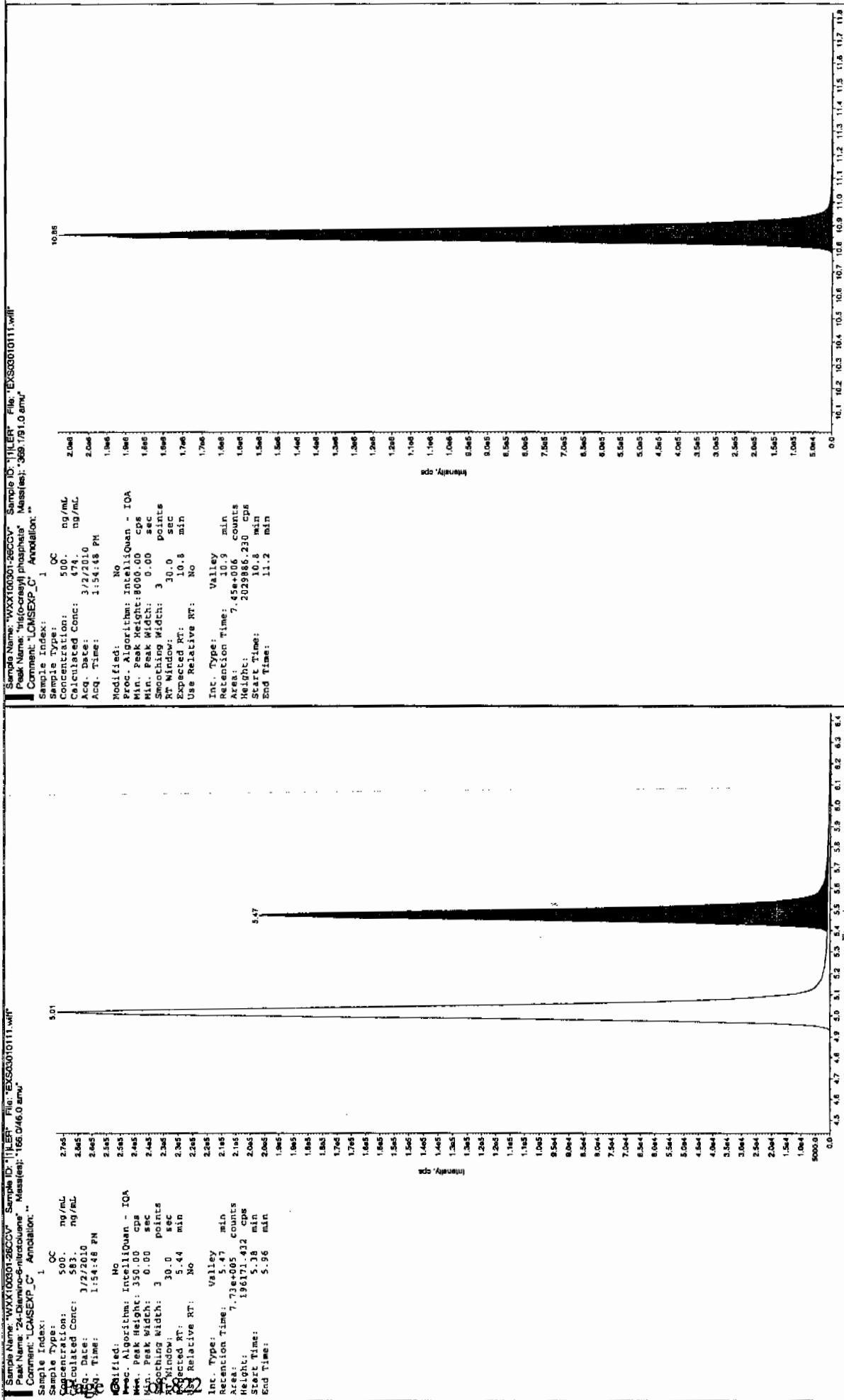
\* Value outside of Recovery Limits

*Handwritten:* 2/21/10



*Handwritten:* 4/10/10







7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010113.wiff

Analysis Date: 02-MAR-10 14:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	118	118	
2,6-Diamino-4-nitrotoluene	100	112	112	
3,4-Dinitrotoluene	50	51	102	
3,5-Dinitroaniline	100	94.3	94	
TATB	100	97.1	97	
tris(o-cresyl) phosphate	100	96.7	97	

Recovery Limits:

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

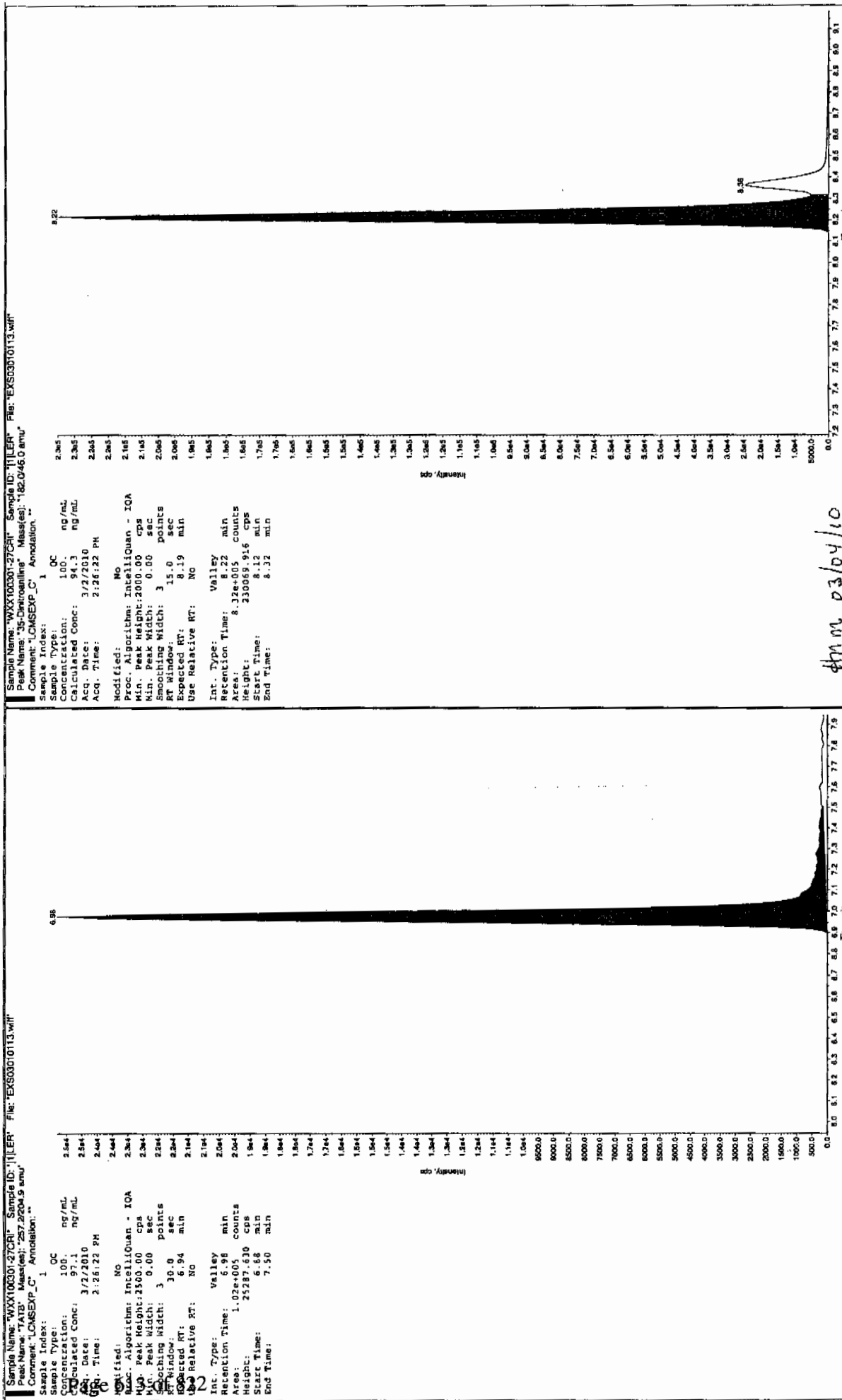
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

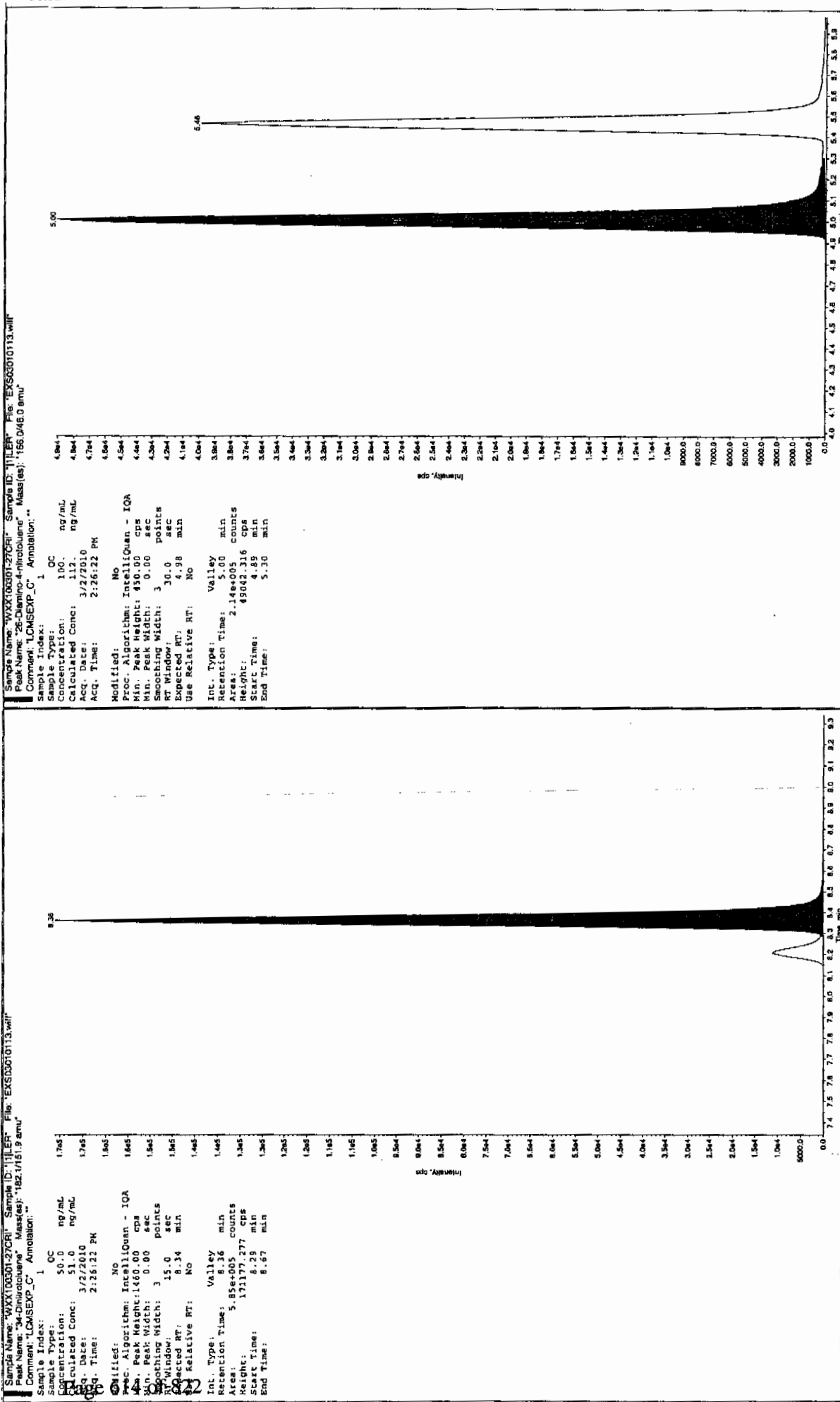
# Column used to flag Recovery outside of Limits

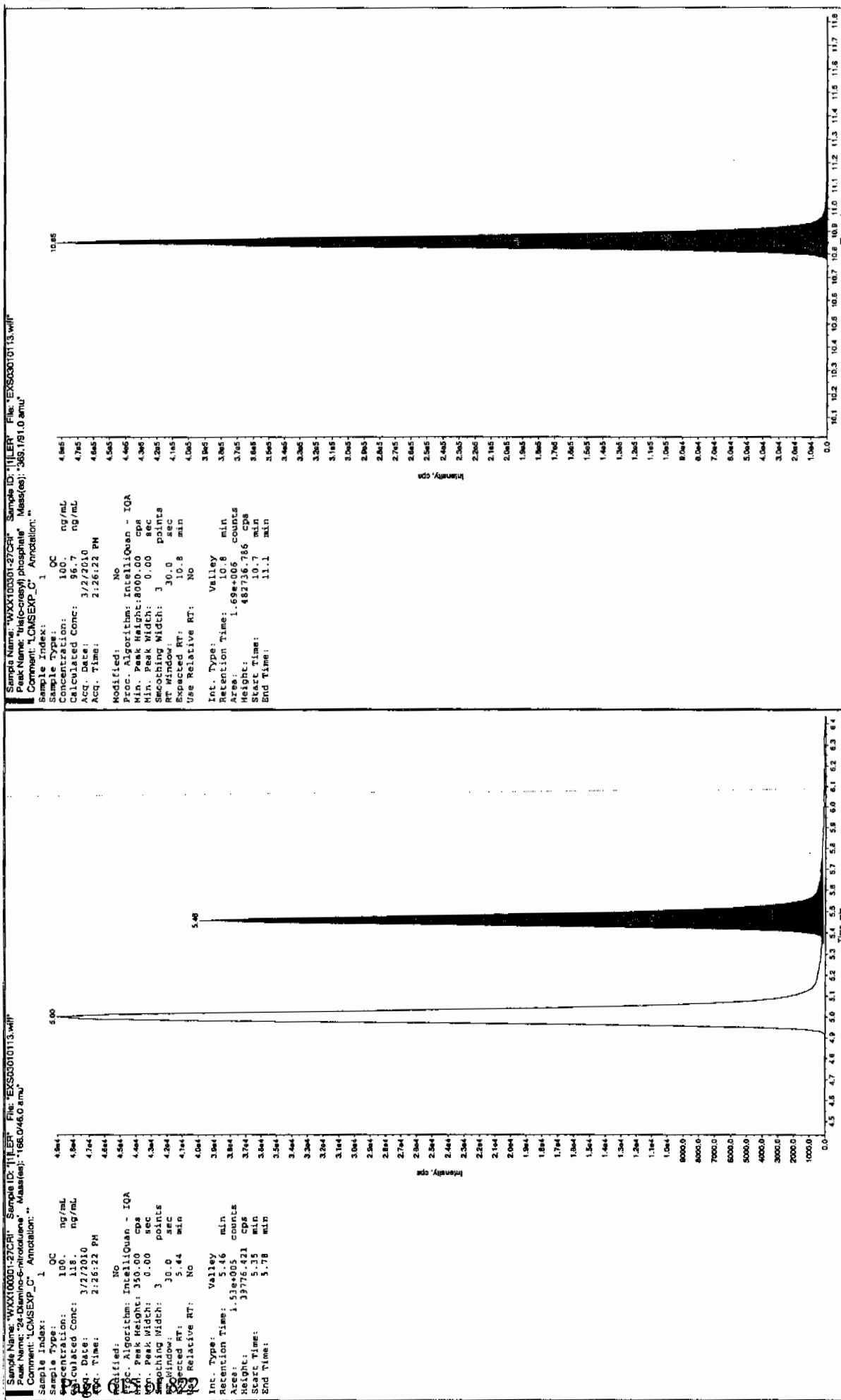
\* Value outside of Recovery Limits

202  
3/3/10



4mm 03/04/10





7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010124.wiff

Analysis Date: 02-MAR-10 17:19

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	500	487	97	
TATB	500	477	95	
tris(o-cresyl) phosphate	500	465	93	
2,4-Diamino-6-nitrotoluene	500	559	112	
2,6-Diamino-4-nitrotoluene	500	572	114	
3,4-Dinitrotoluene	250	238	95	

Recovery Limits:

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

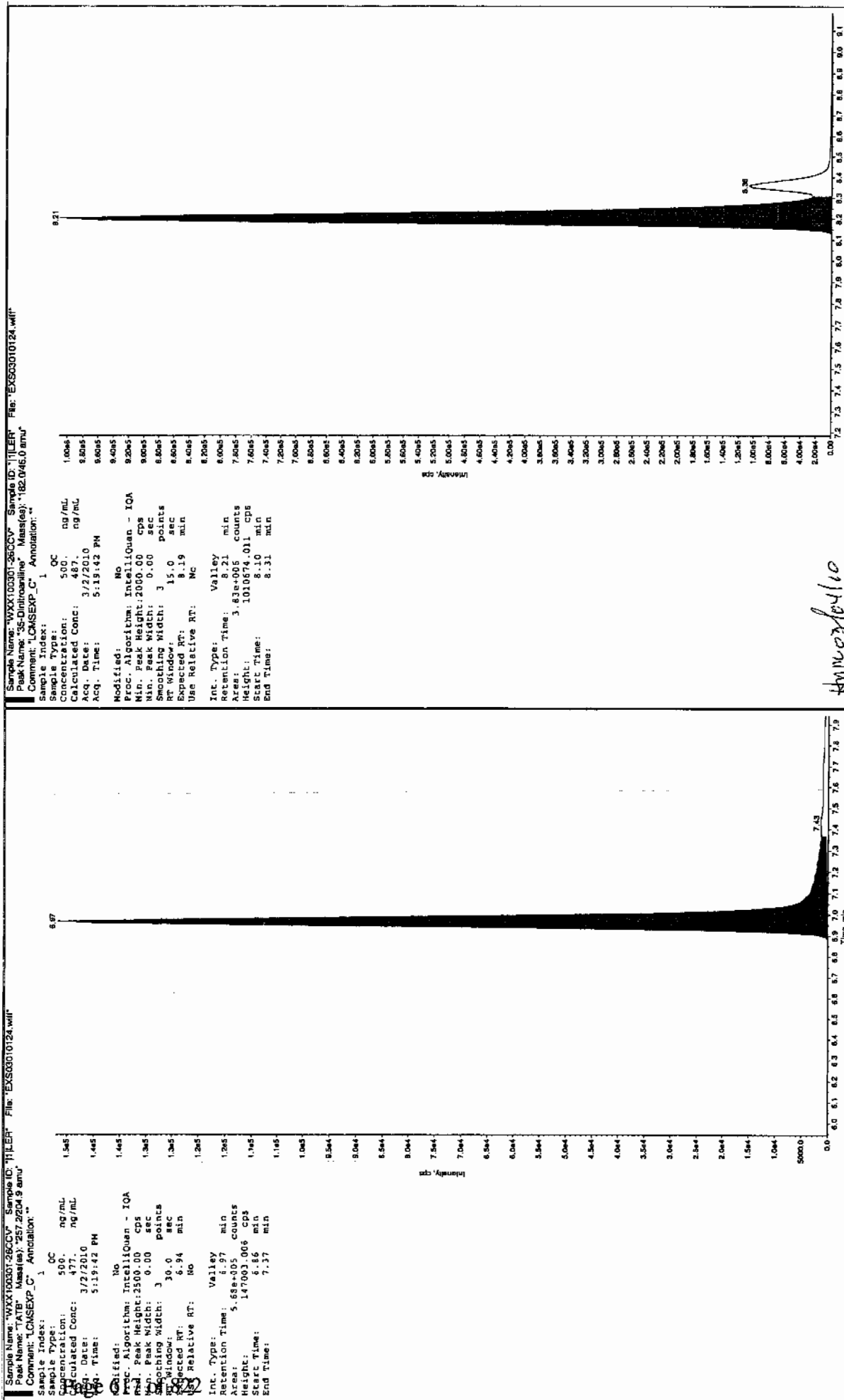
2,4-Diamino-6-nitrotoluene 70-130%

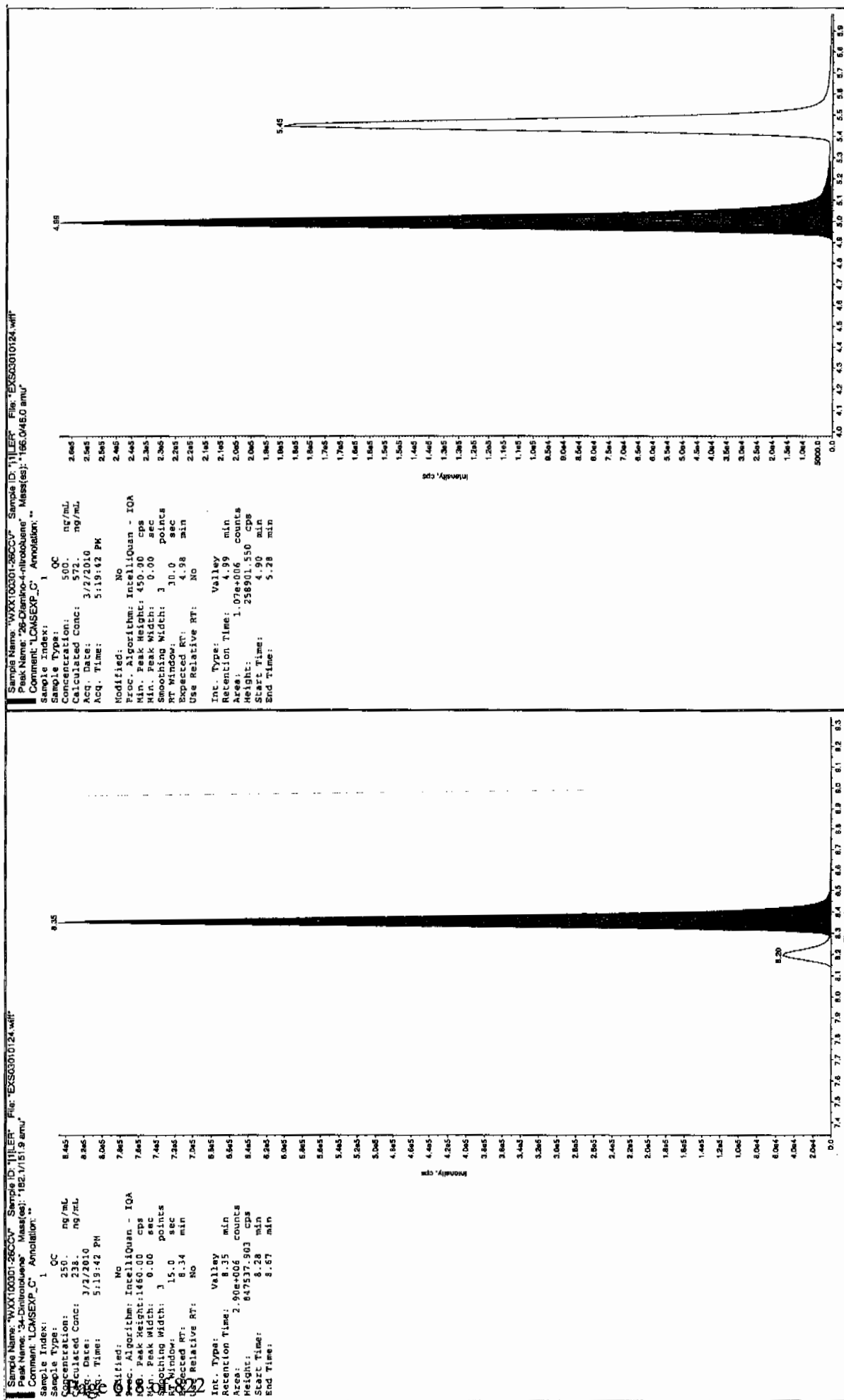
Other Target Analytes 80-120%

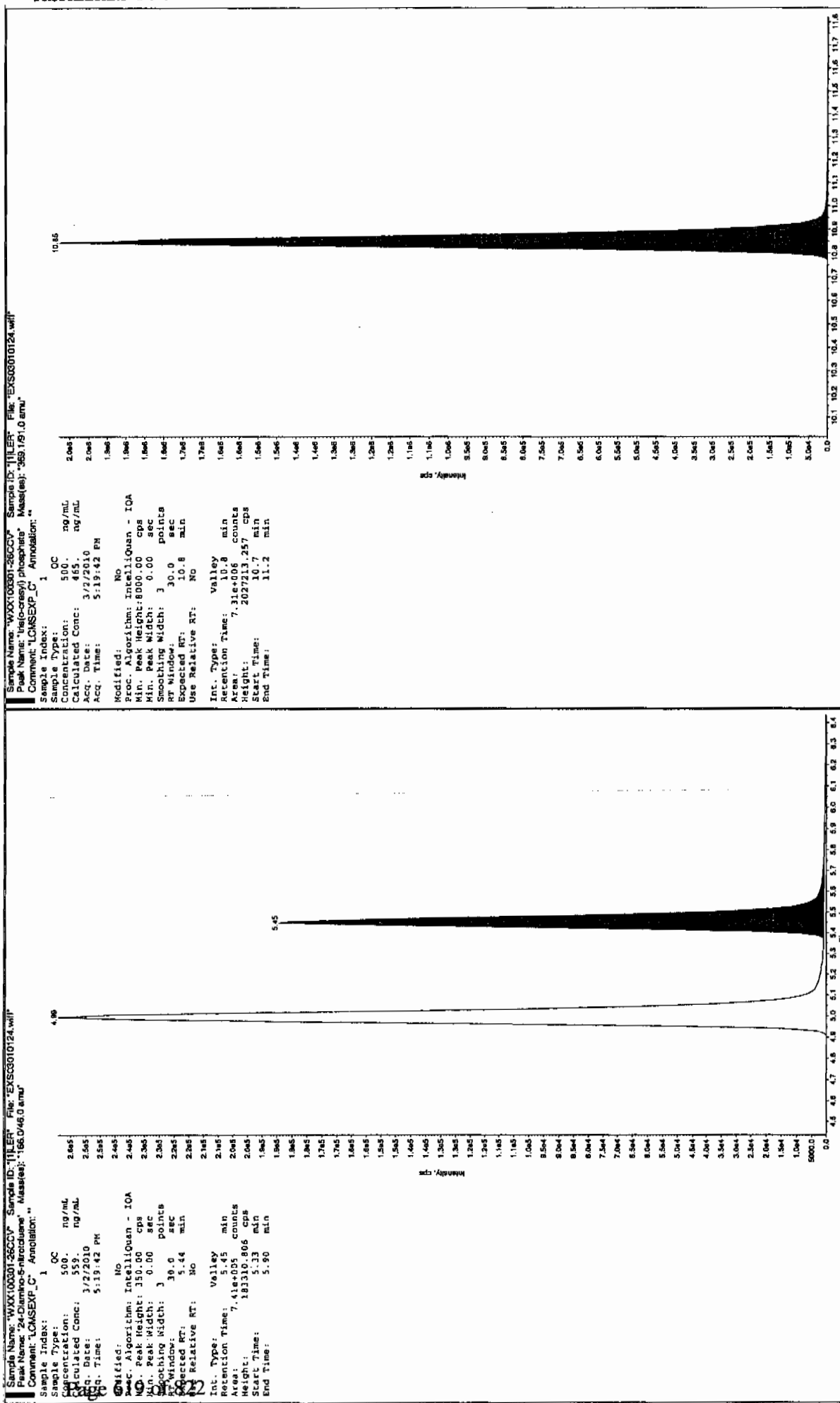
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

for 3/2/10









7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1564

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010126.wiff

Analysis Date: 02-MAR-10 17:51

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	123	123	
2,6-Diamino-4-nitrotoluene	100	119	119	
3,4-Dinitrotoluene	50	51.2	102	
3,5-Dinitroaniline	100	90.6	91	
TATB	100	96.8	97	
tris(o-cresyl) phosphate	100	95	95	

Recovery Limits:

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

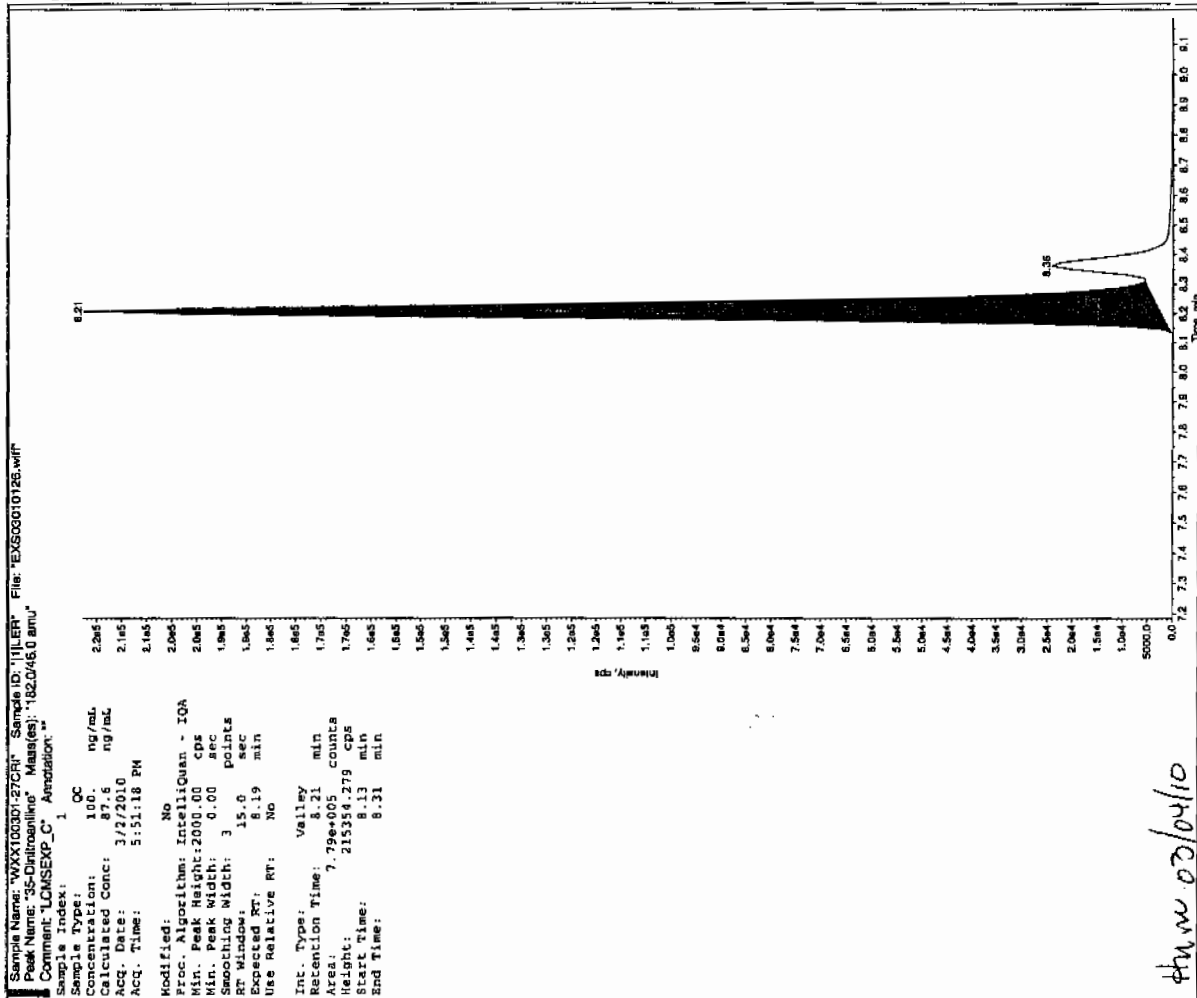
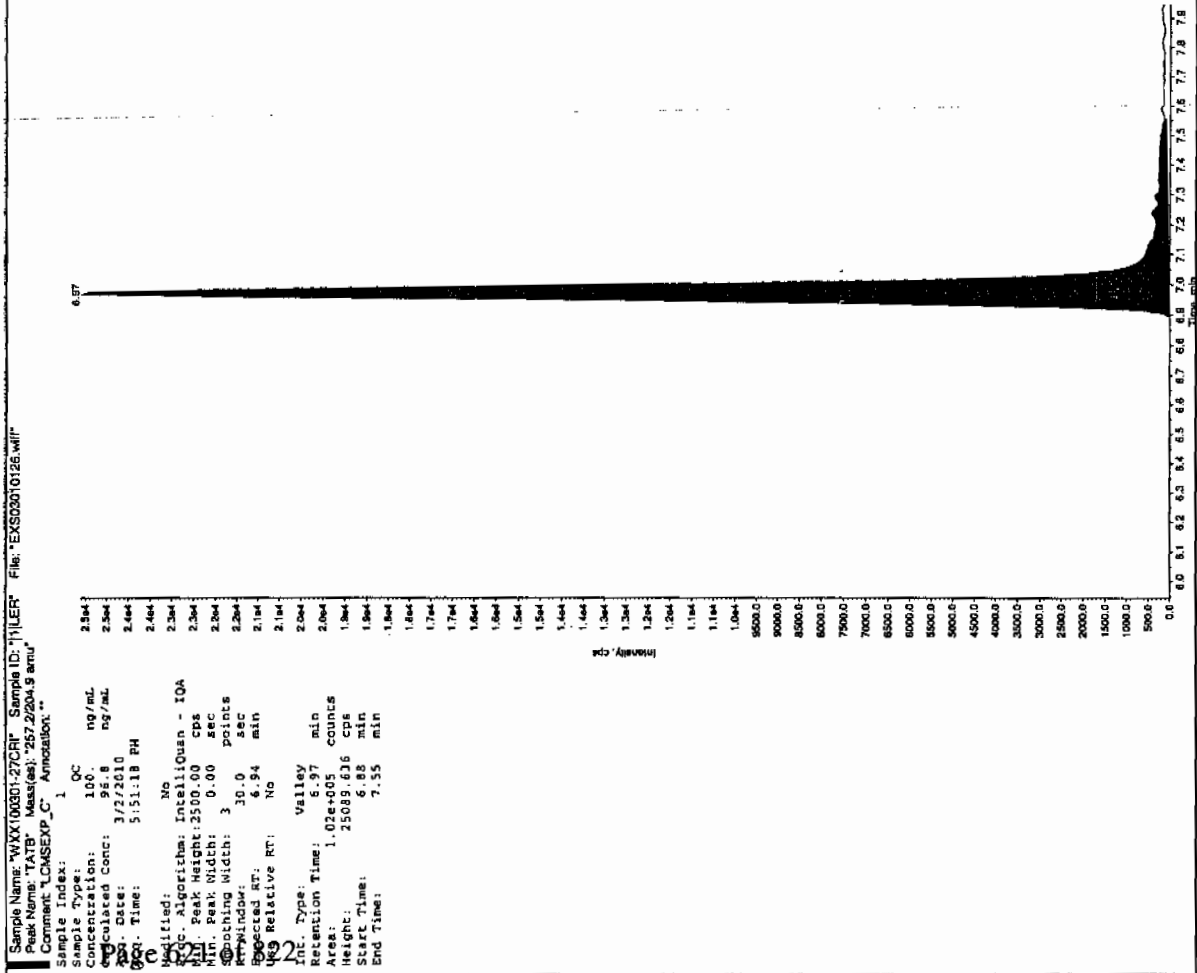
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

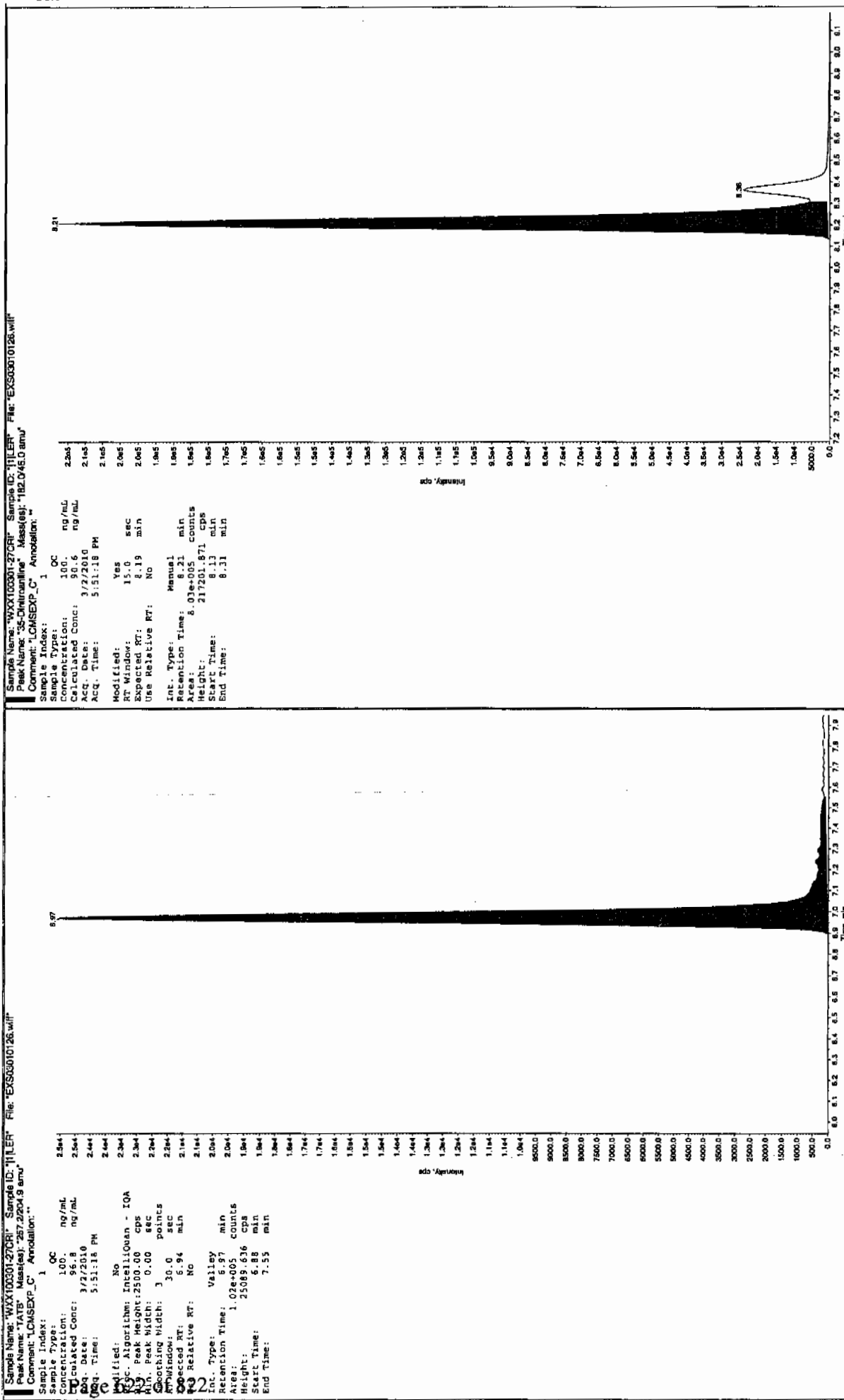
# Column used to flag Recovery outside of Limits

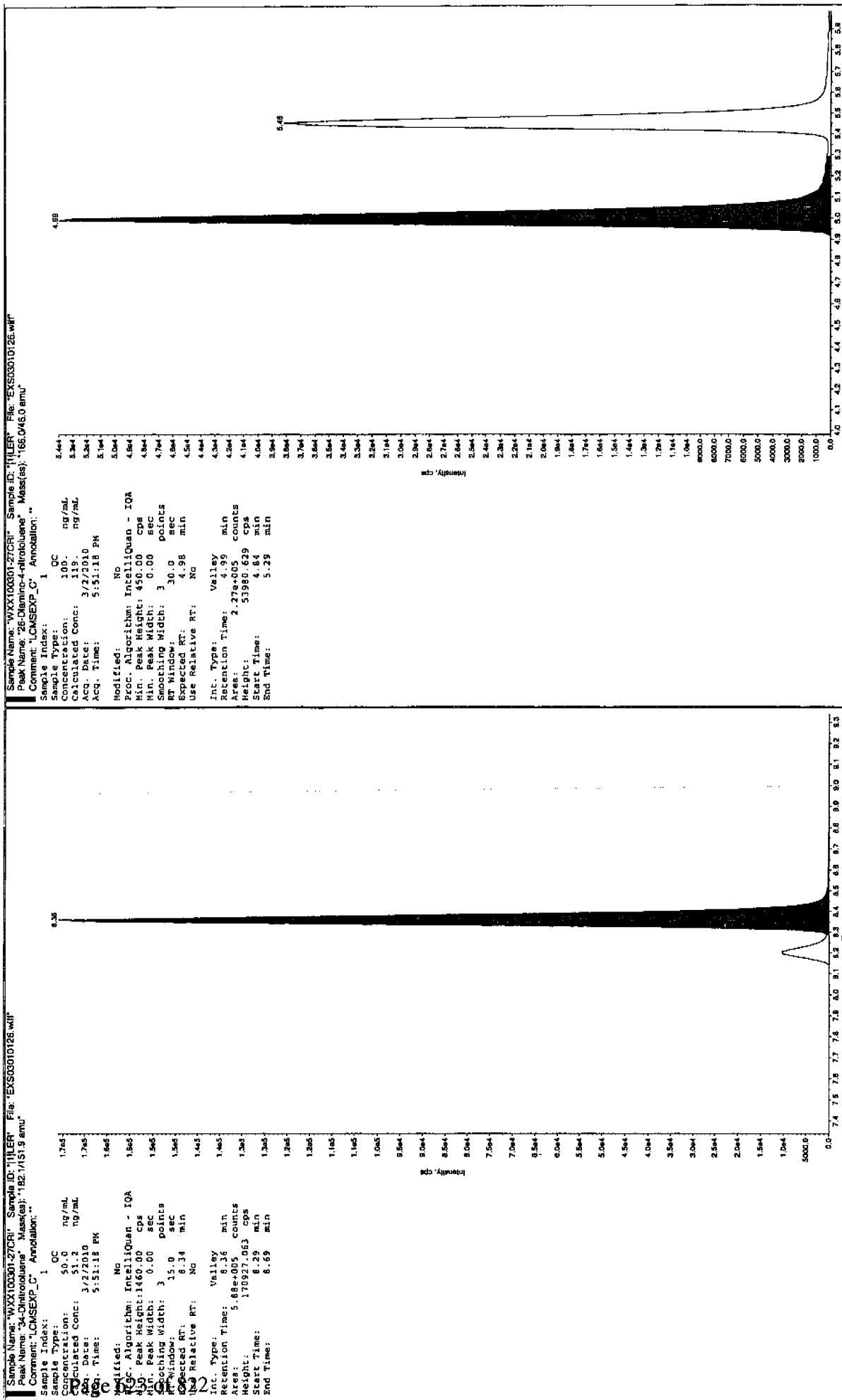
\* Value outside of Recovery Limits

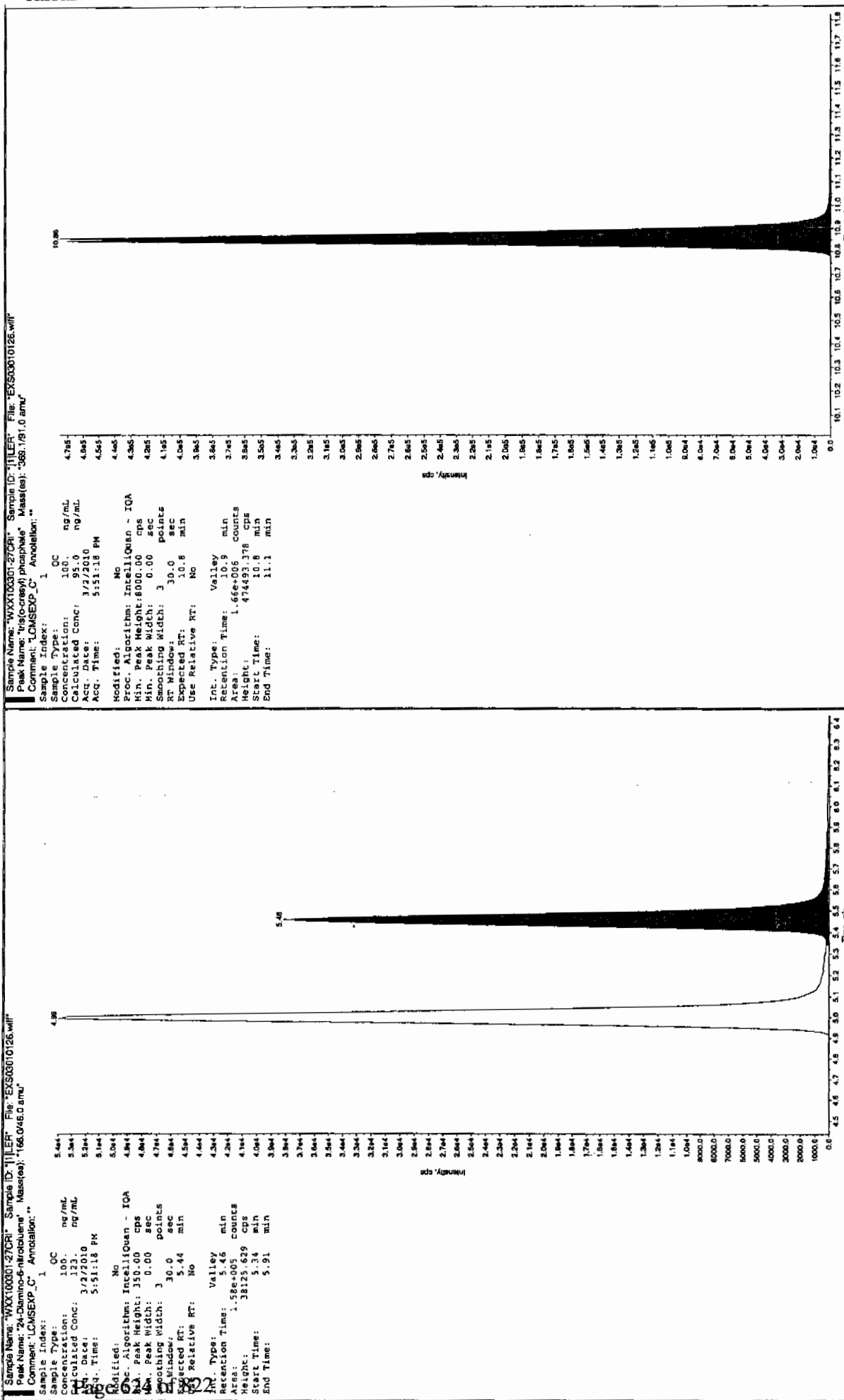
Before Jan 31/10



off for 3/2/10







# QUALITY CONTROL DATA

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 1202035678

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312077.wiff

Date Analyzed: 13-MAR-10 17:25

Units: ug/kg

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

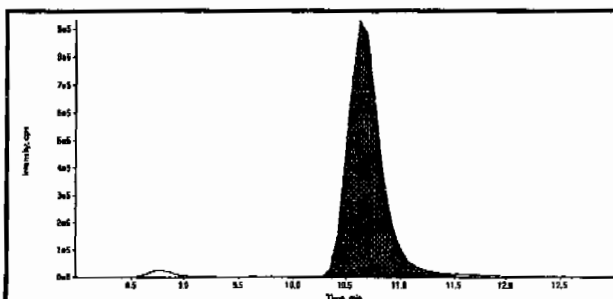
\*Concentration =

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

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

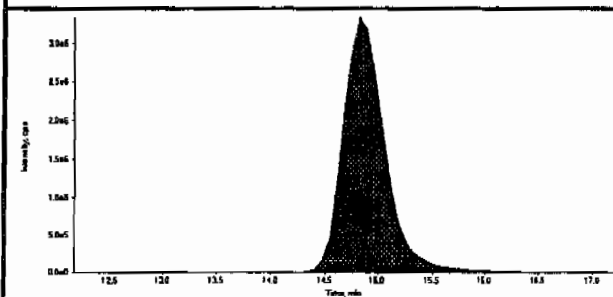
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



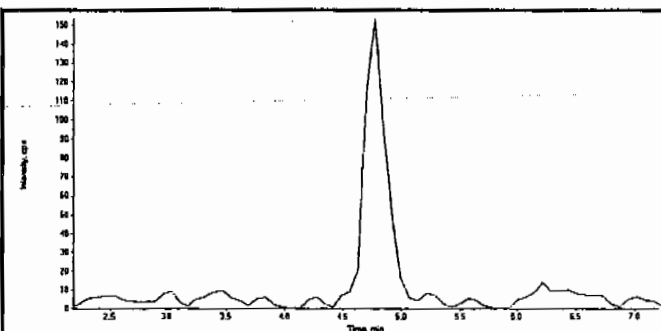
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	20200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

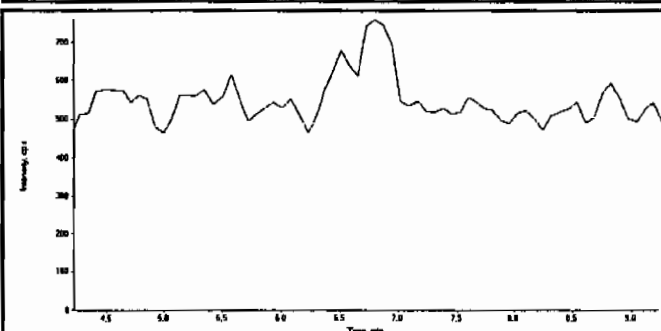


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	91800000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

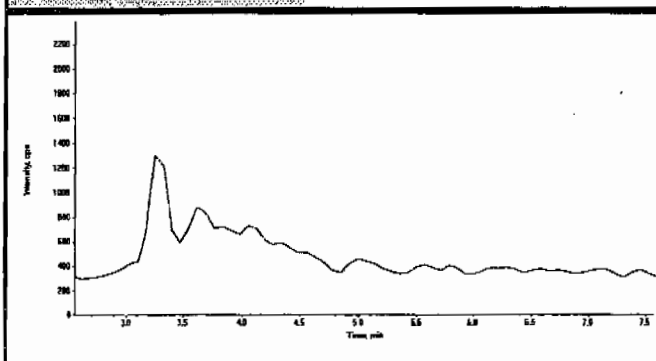
*Handwritten:* 3/24/10 Hmx 03/24/10



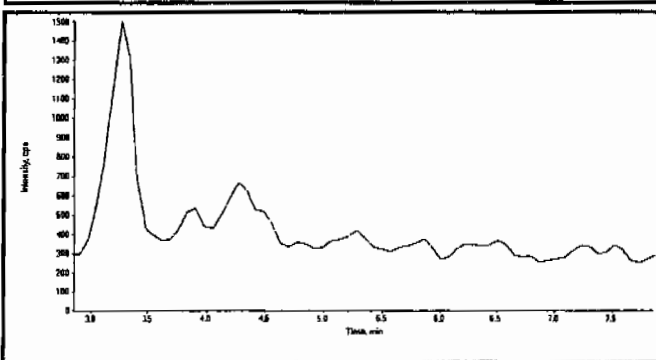
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

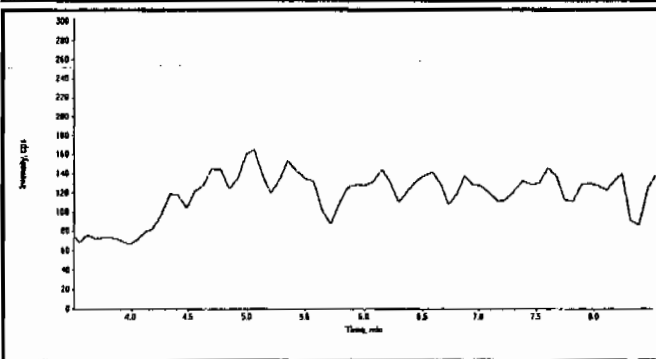
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Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



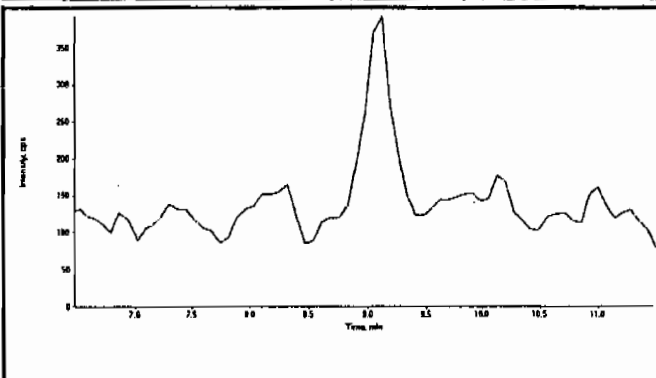
Compound Name:	TNX (219.0/45.0 amu)
Expected RT:	5.06
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	DNX (235.0/45.0 amu)
Expected RT:	5.35
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	MNX (251.0/46.0 amu)
Expected RT:	6.00
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	8.97
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File:	EXP0312077.wiff	Acquisition Date:	3/13/2010 5:25:40 PM
Sample Name:	1202035678	Acquisition Method:	8321_pntx.dam
Batch Dilution Analyst:	950081 2 LER	Result Table:	031210.rdb
Procedure Code:	LCX8321_S	Sample Type:	Unknown

	Compound Name:	1,3-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification:	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification:	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification:	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification:	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	5.98e+007
	Manual Modification	No
	Amount:	265. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

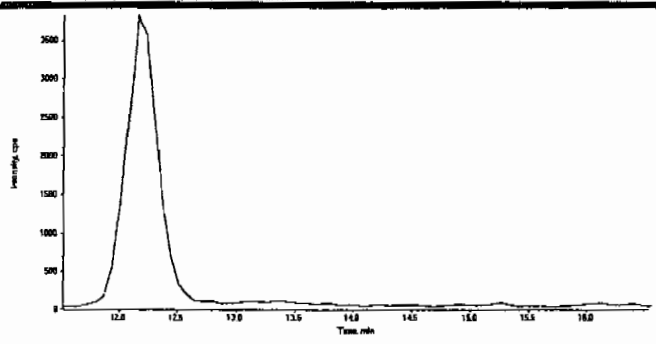
	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

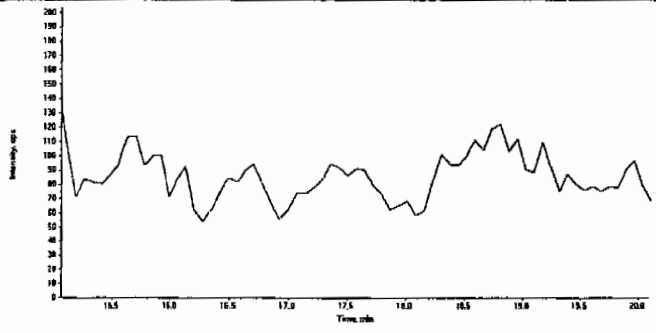
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LCMSMS#3

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Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

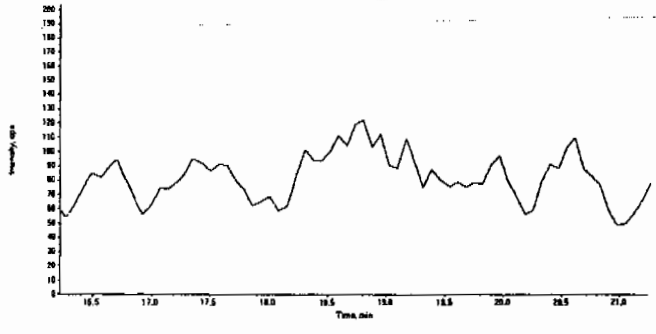
  

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

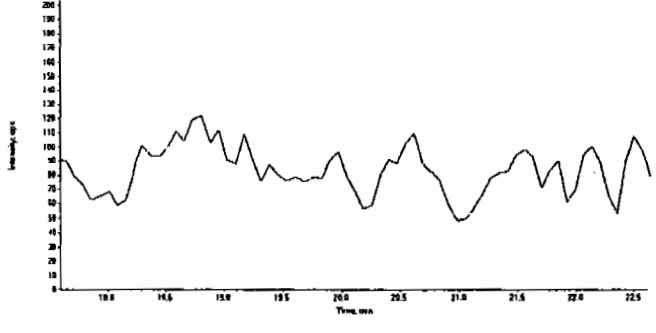
  

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

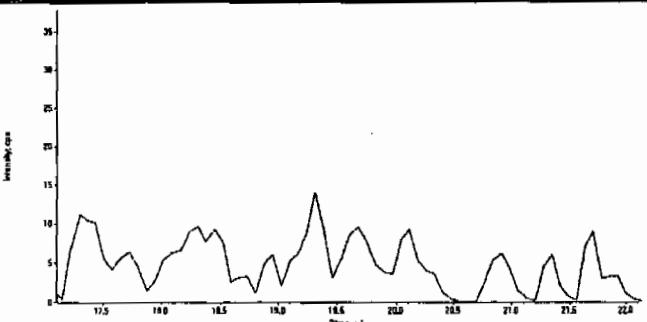
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312077.wiff	Acquisition Date	3/13/2010 5:25:40 PM
Sample Name	1202035678	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	0.00
		Area Counts:	0.00e+000
		Manual Modification	No
		Amount:	N/A (ng/mL)
		% Accuracy:	N/A

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 1202035678

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010077.wiff

Date Analyzed: 02-MAR-10 04:59

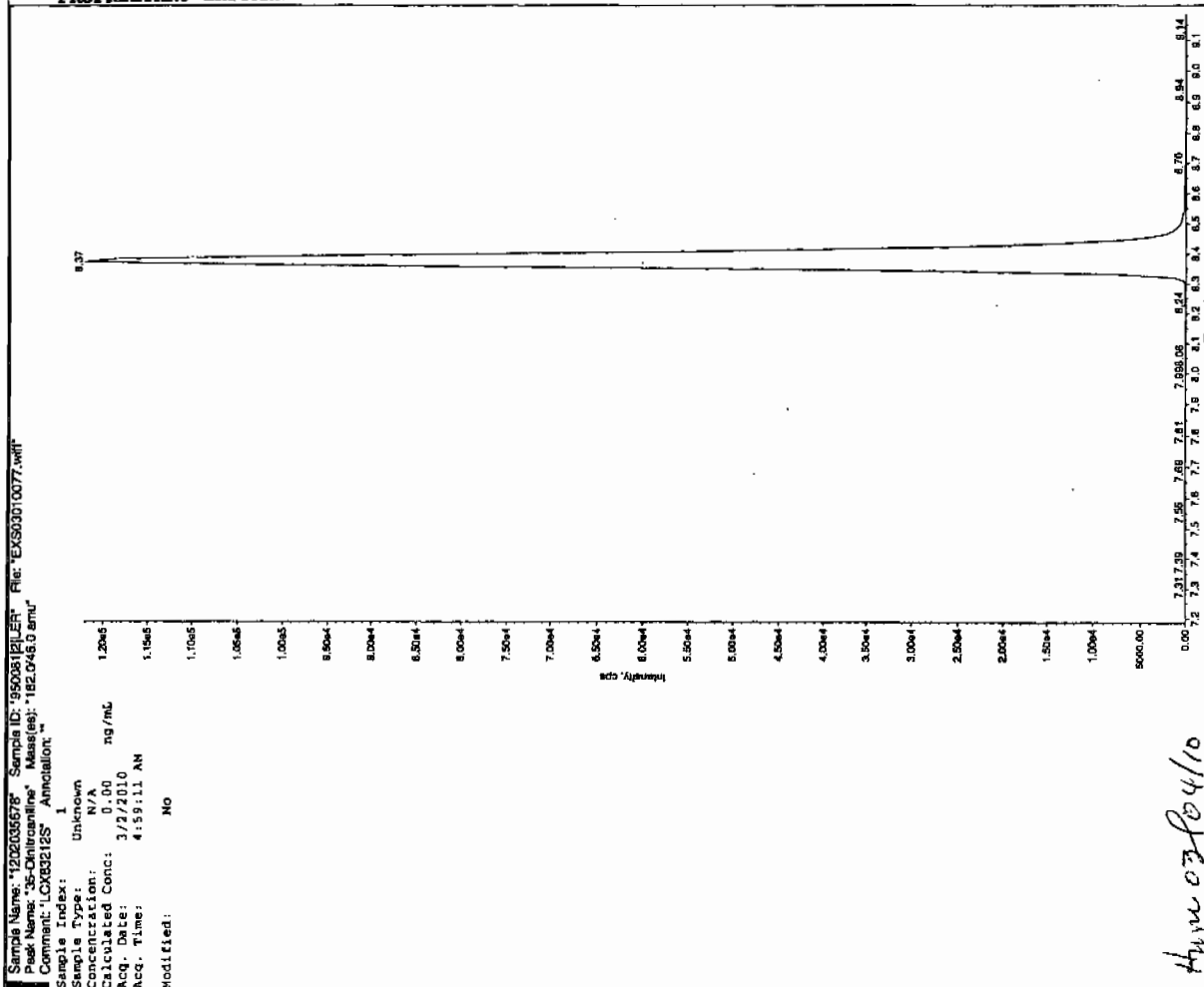
Units: ug/kg

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

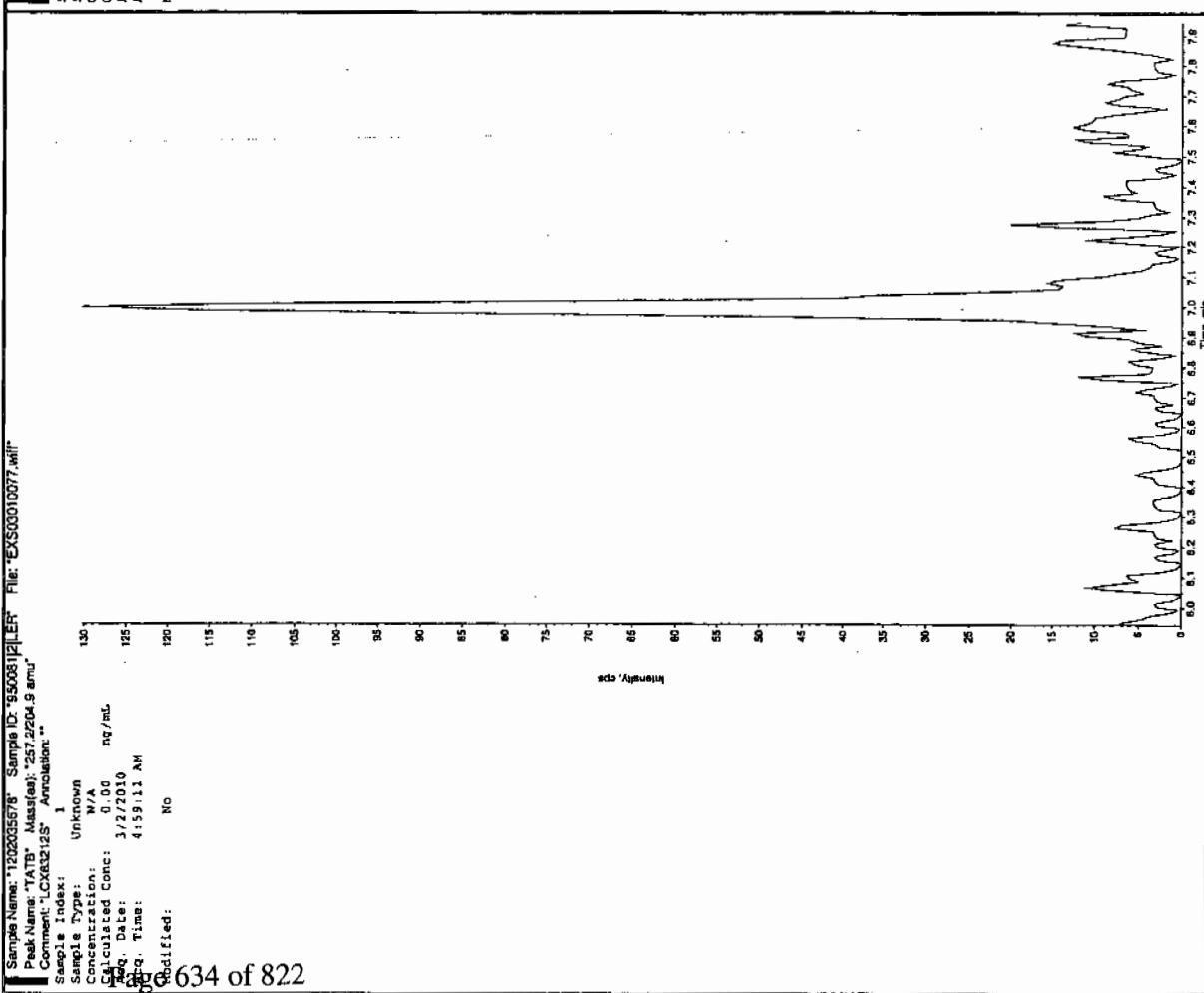
\*Concentration =

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

Jan 3/3/10

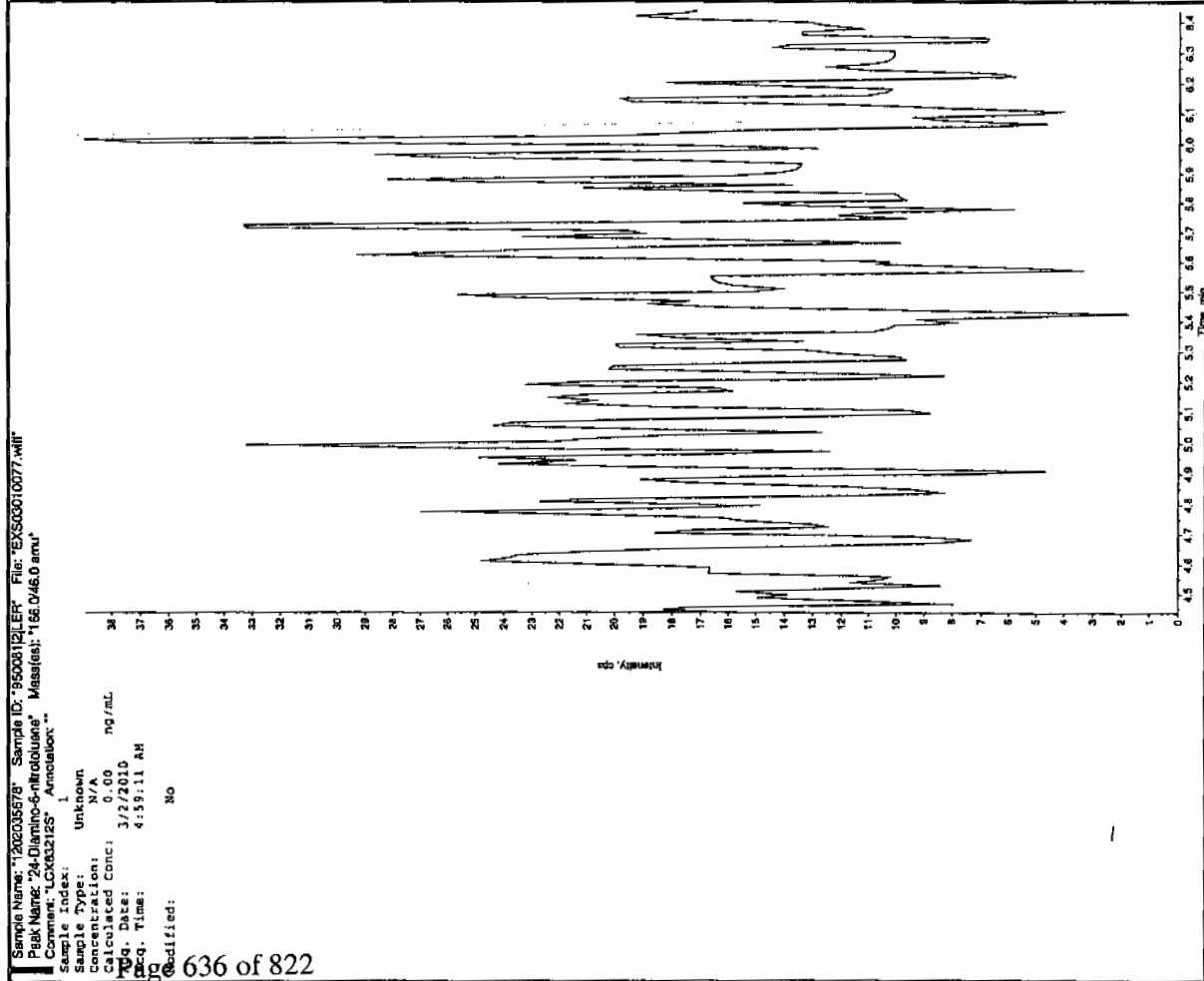
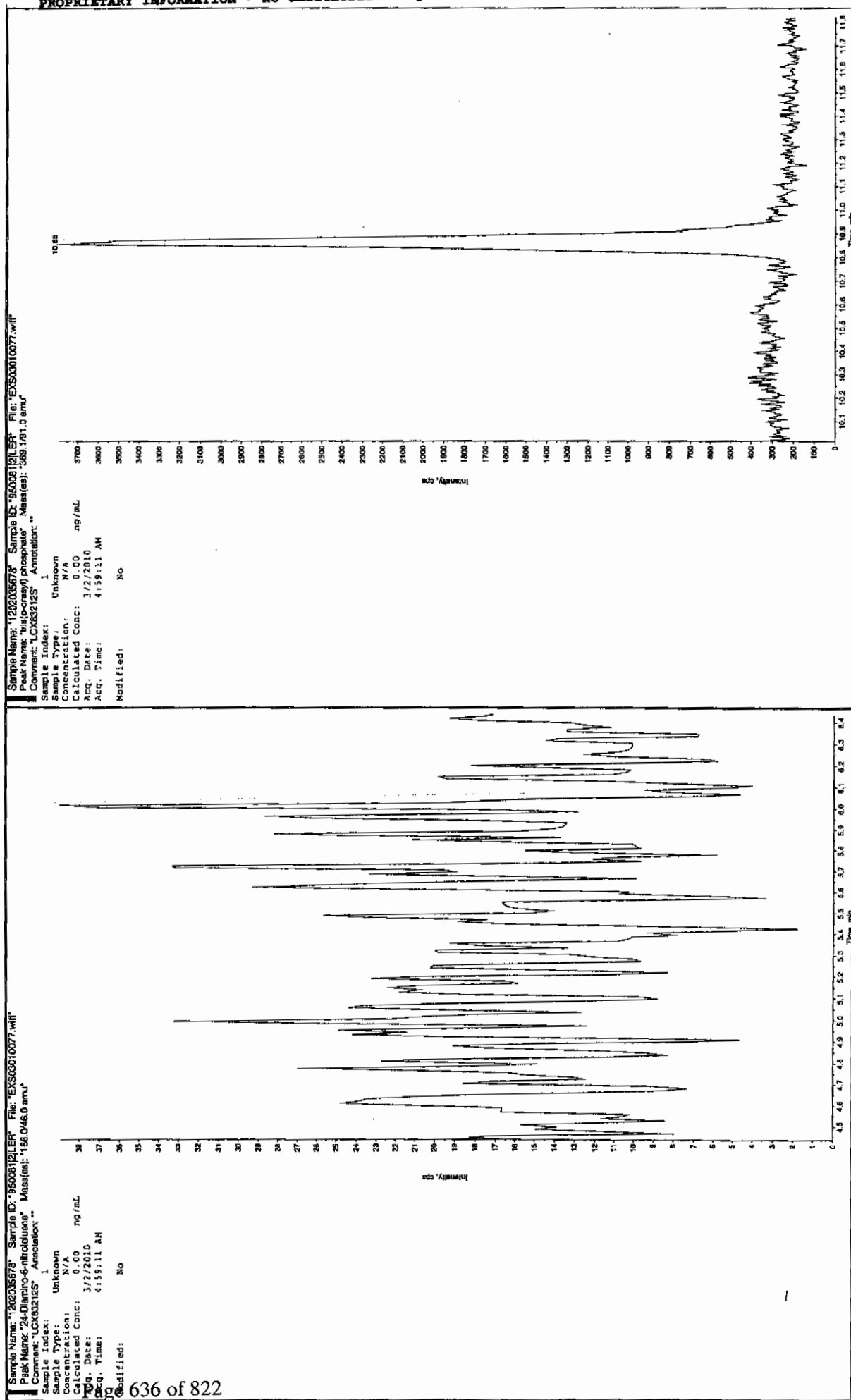


Hum 03/04/10









1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 1202035679

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312078.wiff

Date Analyzed: 13-MAR-10 17:52

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4180	
121-14-2	2,4-Dinitrotoluene	4610	
121-82-4	RDX	4830	
19406-51-0	4-Amino-2,6-dinitrotoluene	4500	
2691-41-0	HMX	4160	
35572-78-2	2-Amino-4,6-dinitrotoluene	4700	
479-45-8	Tetryl	2930	
606-20-2	2,6-Dinitrotoluene	4650	
78-11-5	PETN	4680	
88-72-2	o-Nitrotoluene	4420	
98-95-3	Nitrobenzene	4670	
99-08-1	m-Nitrotoluene	3680	
99-35-4	1,3,5-Trinitrobenzene	4220	
99-65-0	m-Dinitrobenzene	4390	
99-99-0	p-Nitrotoluene	4000	

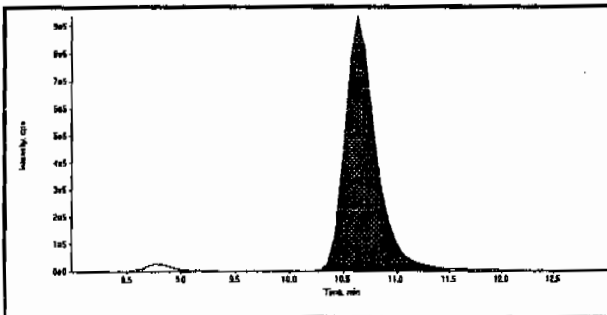
\*Concentration =

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

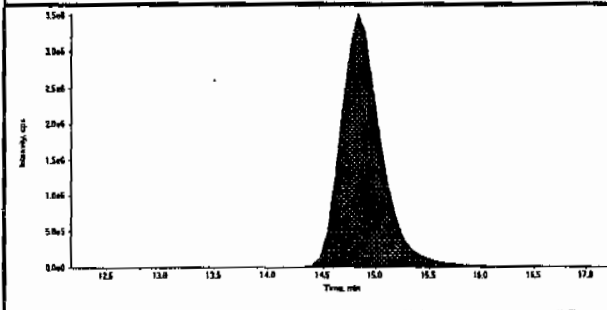
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

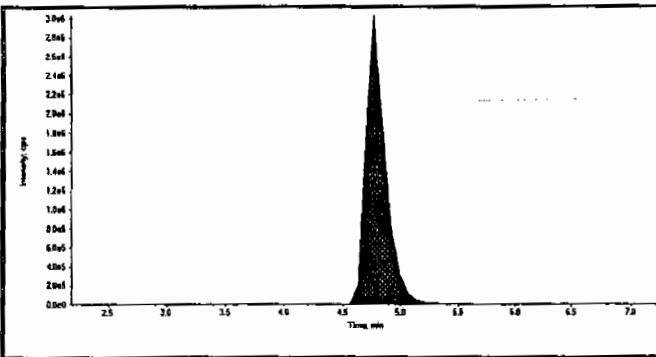
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Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



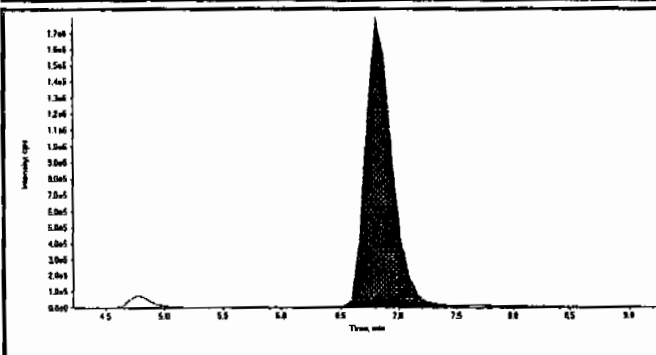
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	19400000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.80
Area Counts:	94000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.67e+007
Manual Modification	No
Amount:	416. (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.95e+007
Manual Modification	No
Amount:	483. (ng/mL)
% Accuracy:	N/A

*LER*  
*3/24/10*

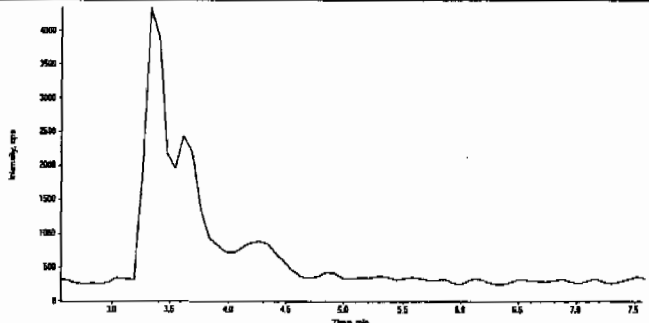
*Amie*  
*3/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

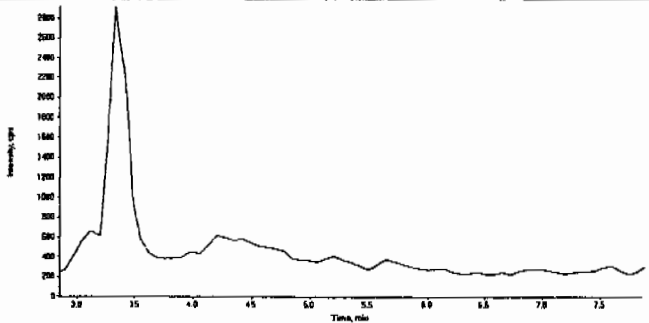
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LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

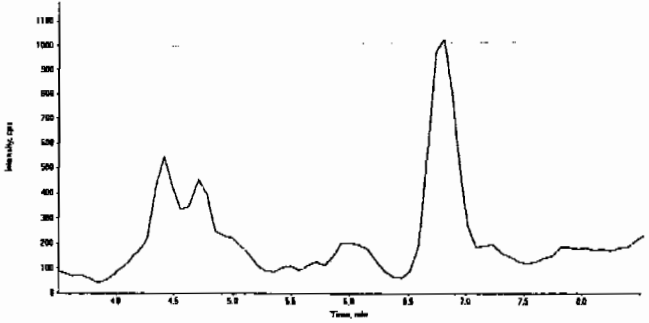
  

	Compound Name:	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

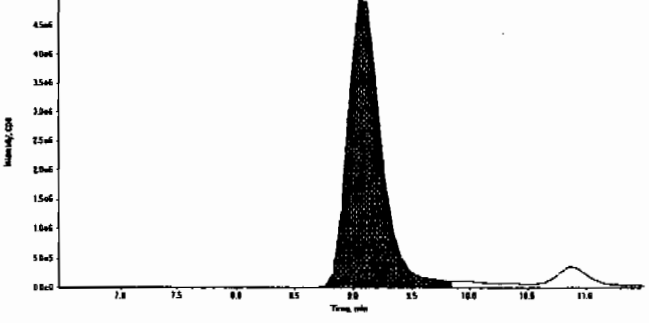
  

	Compound Name:	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	9.99e+007
	Manual Modification	No
	Amount:	422. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	1,3-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	4.55e+007
	Manual Modification	No
	Amount:	439. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	3.93e+007
	Manual Modification	No
	Amount:	293. (ng/mL)
	% Accuracy:	N/A

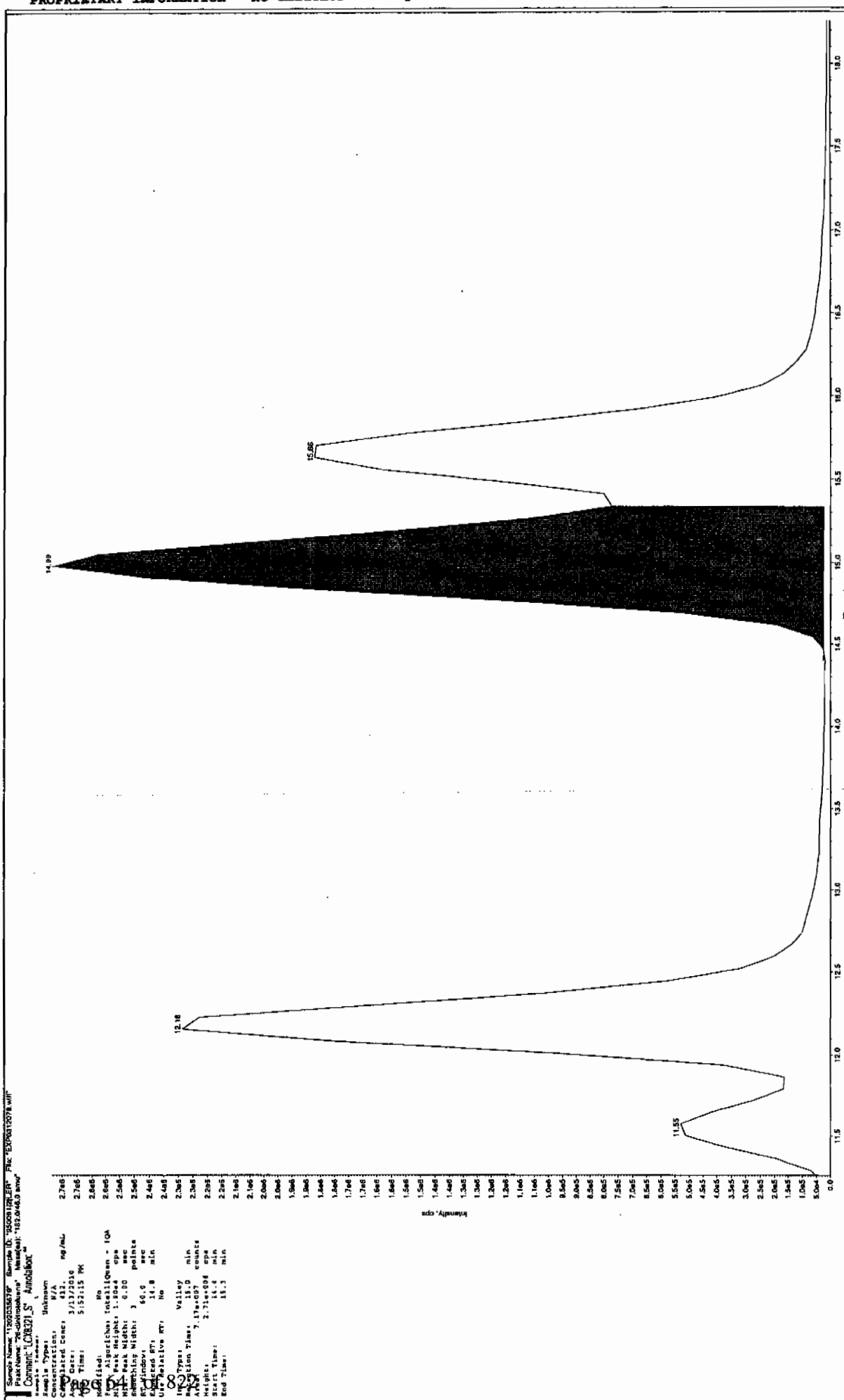
  

	Compound Name:	2,4,6-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	1.84e+008
	Manual Modification	No
	Amount:	418. (ng/mL)
	% Accuracy:	N/A

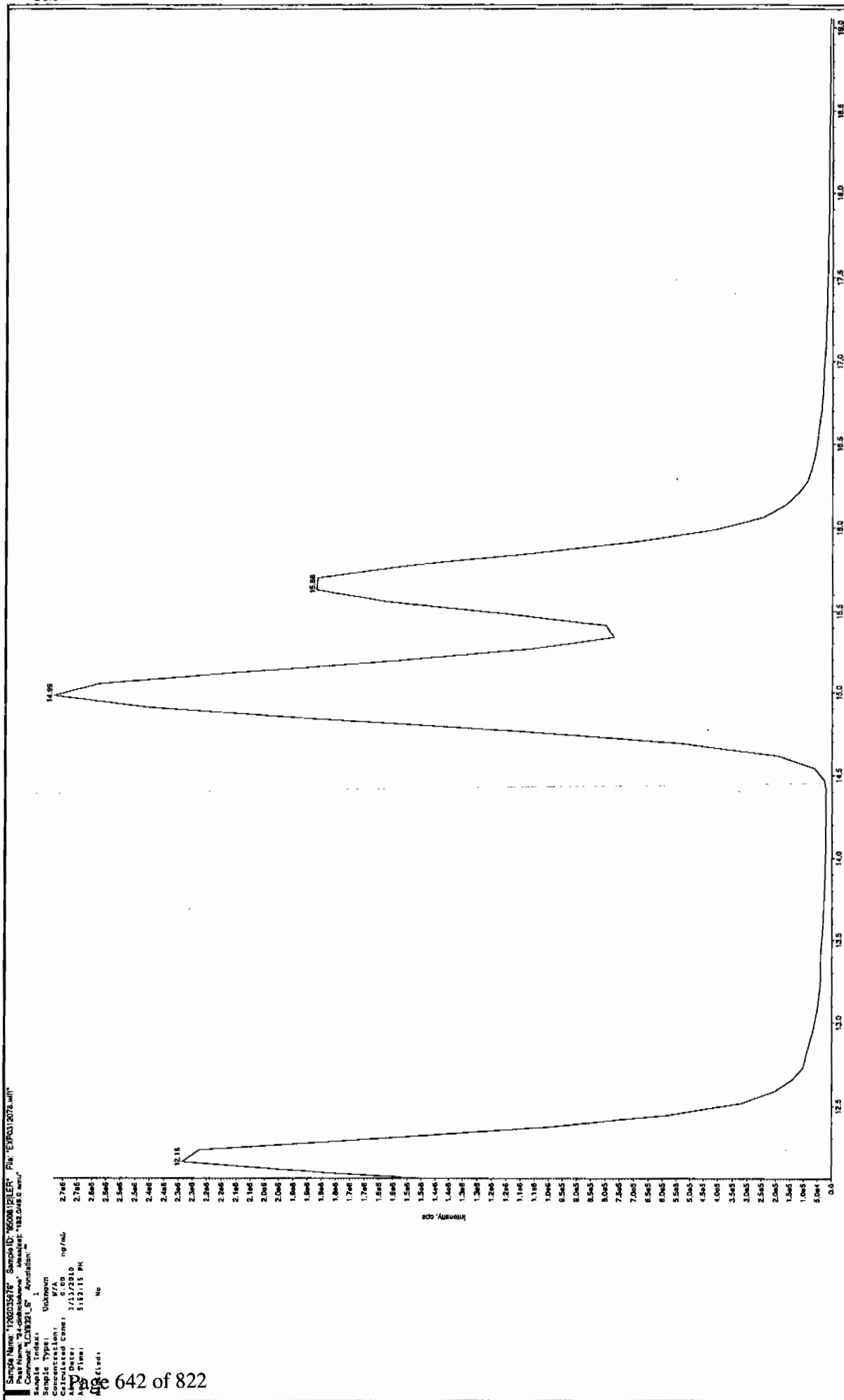
  

	Compound Name:	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.75e+006
	Manual Modification	No
	Amount:	467. (ng/mL)
	% Accuracy:	N/A

Before Jan 3/24/10



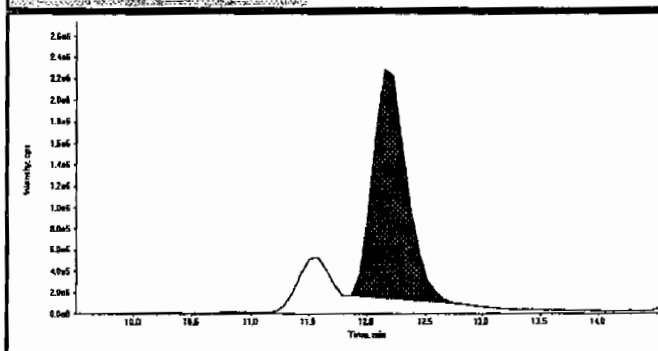
Before Jan 31/10



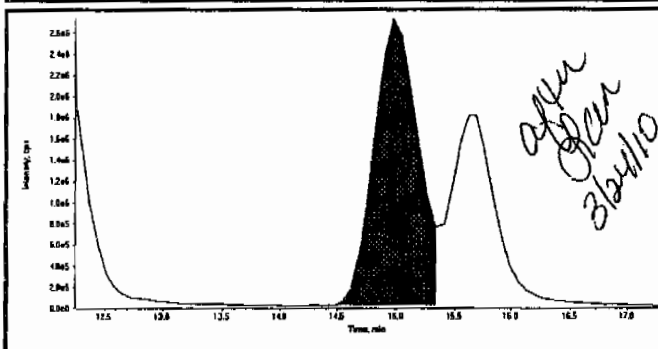
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

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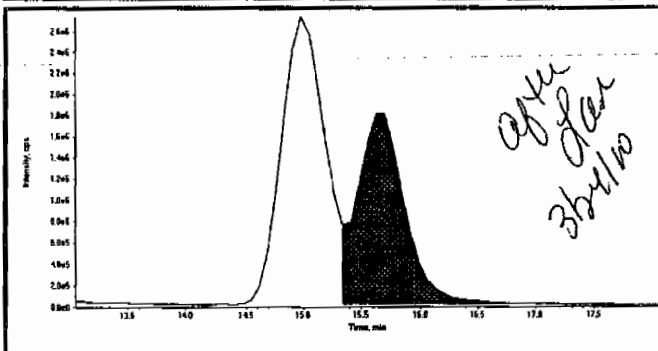
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Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



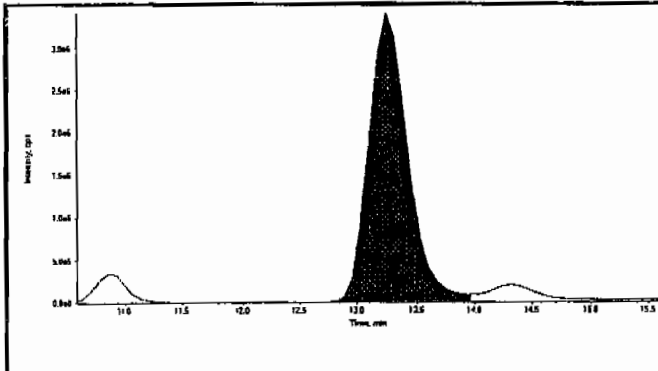
Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
Expected RT:	12.0
Actual RT:	12.2
Area Counts:	4.37e+007
Manual Modification	No
Amount:	189. (ng/mL)
% Accuracy:	N/A



Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
Expected RT:	14.8
Actual RT:	15.0
Area Counts:	7.17e+007
Manual Modification	Yes
Amount:	465. (ng/mL)
% Accuracy:	N/A



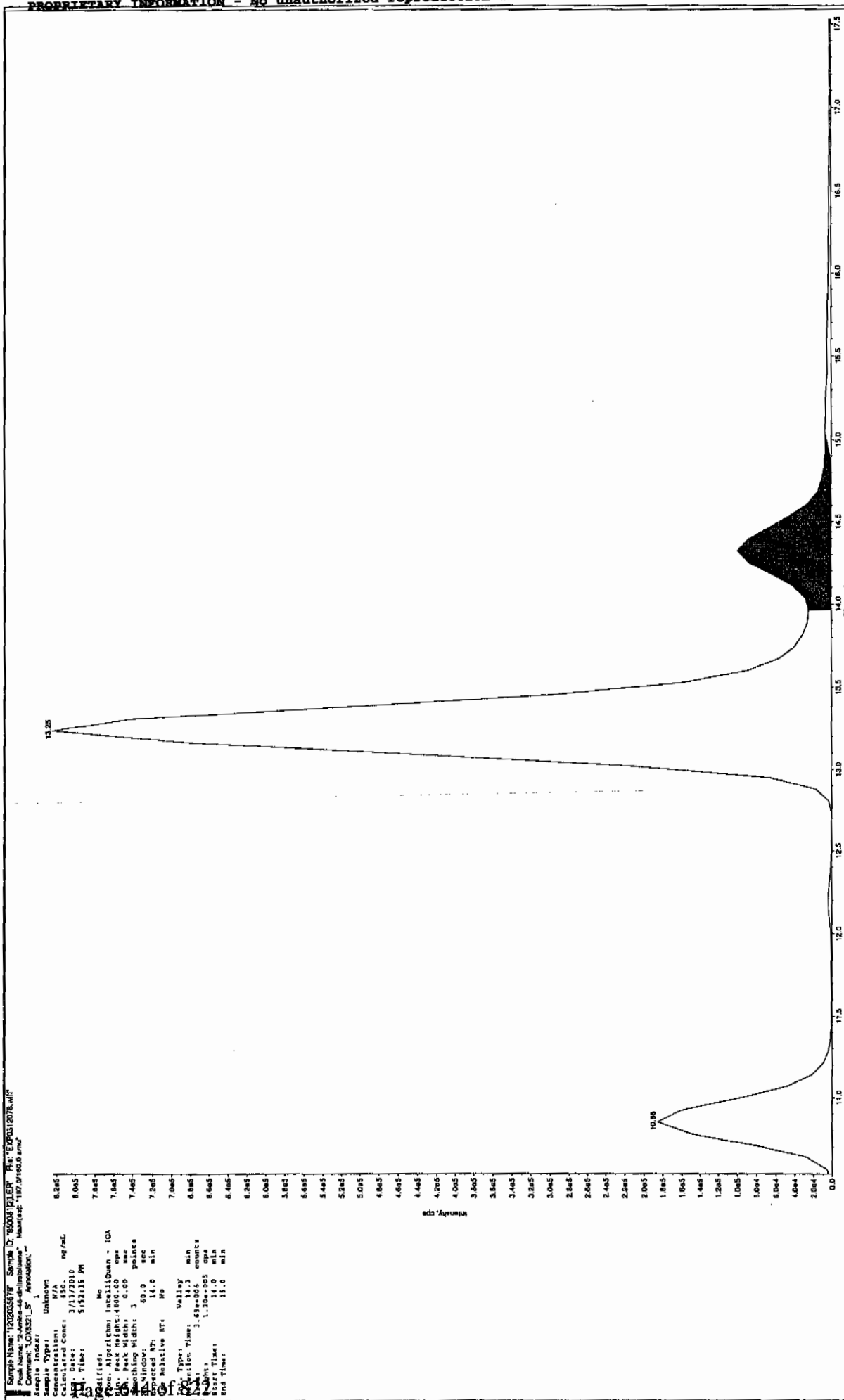
Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
Expected RT:	15.6
Actual RT:	15.7
Area Counts:	5.10e+007
Manual Modification	Yes
Amount:	461. (ng/mL)
% Accuracy:	N/A



Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
Expected RT:	13.1
Actual RT:	13.2
Area Counts:	7.87e+007
Manual Modification	No
Amount:	450. (ng/mL)
% Accuracy:	N/A



PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

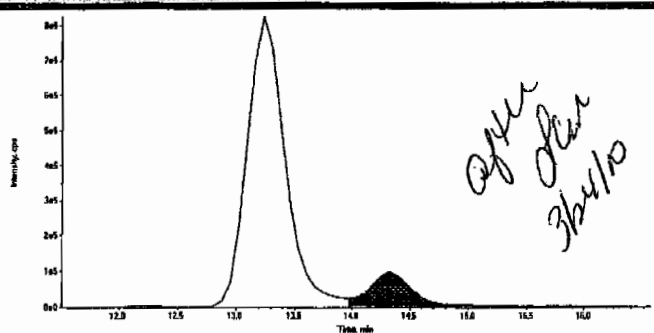


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

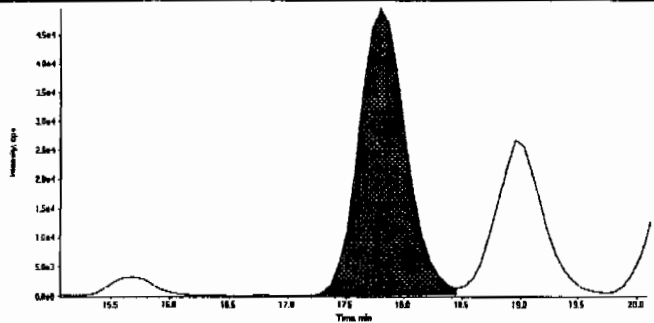
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

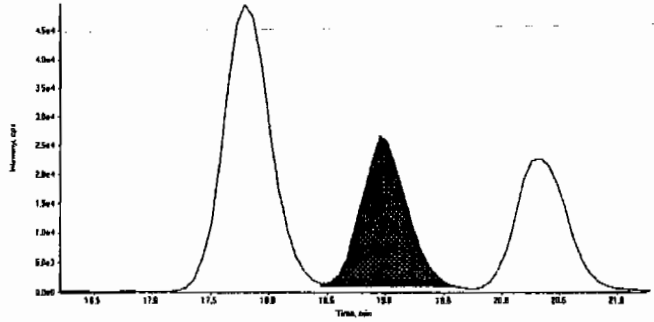
  

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.3
	Area Counts:	2.67e+006
	Manual Modification	Yes
	Amount:	470. (ng/mL)
	% Accuracy:	N/A

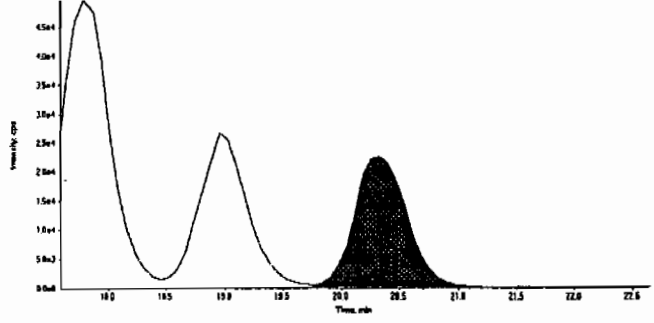
  

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.8
	Area Counts:	1.41e+006
	Manual Modification	No
	Amount:	442. (ng/mL)
	% Accuracy:	N/A

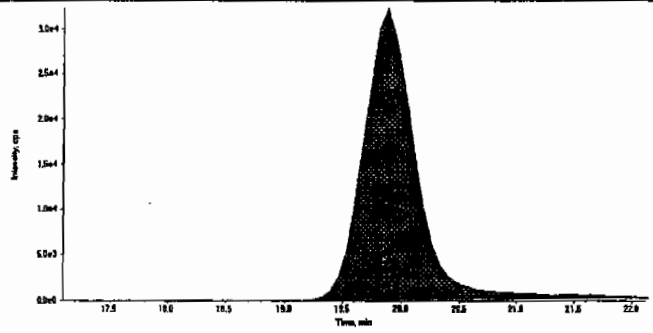
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	7.00e+005
	Manual Modification	No
	Amount:	400. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.3
	Area Counts:	7.18e+005
	Manual Modification	No
	Amount:	368. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312078.wiff	Acquisition Date	3/13/2010 5:52:15 PM
Sample Name	1202035679	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	1.00e+006
		Manual Modification	No
		Amount:	468. (ng/mL)
		% Accuracy:	N/A

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 950080

Lab Code: GEL

GEL Job No (SDG) 10-1564

Matrix: SOIL

GEL Sample ID: 1202035679

Sample Amount 2

Moisture:

Amount Units g

Date Received: 07-FEB-10

Extraction Type Sonication

Extraction Batch ID: 950080

Concentrated Extract Volume (mL) 10

Date Extracted: 15-FEB--10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010078.wiff

Date Analyzed: 02-MAR-10 05:15

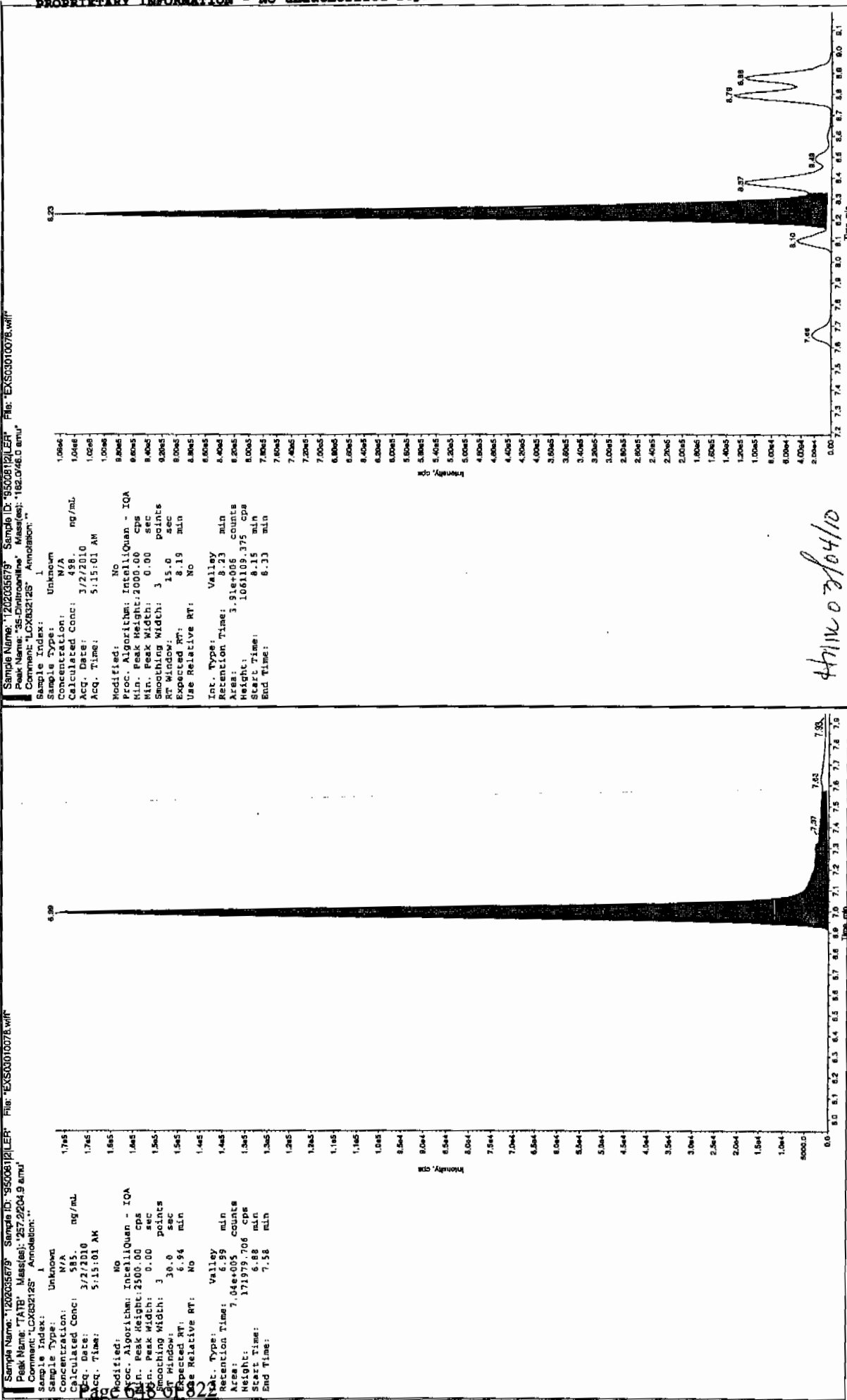
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5850	
59229-75-3	2,6-Diamino-4-nitrotoluene	5440	
618-87-1	3,5-Dinitroaniline	4980	
6629-29-4	2,4-Diamino-6-nitrotoluene	5460	
78-30-8	tris(o-cresyl) phosphate	4570	

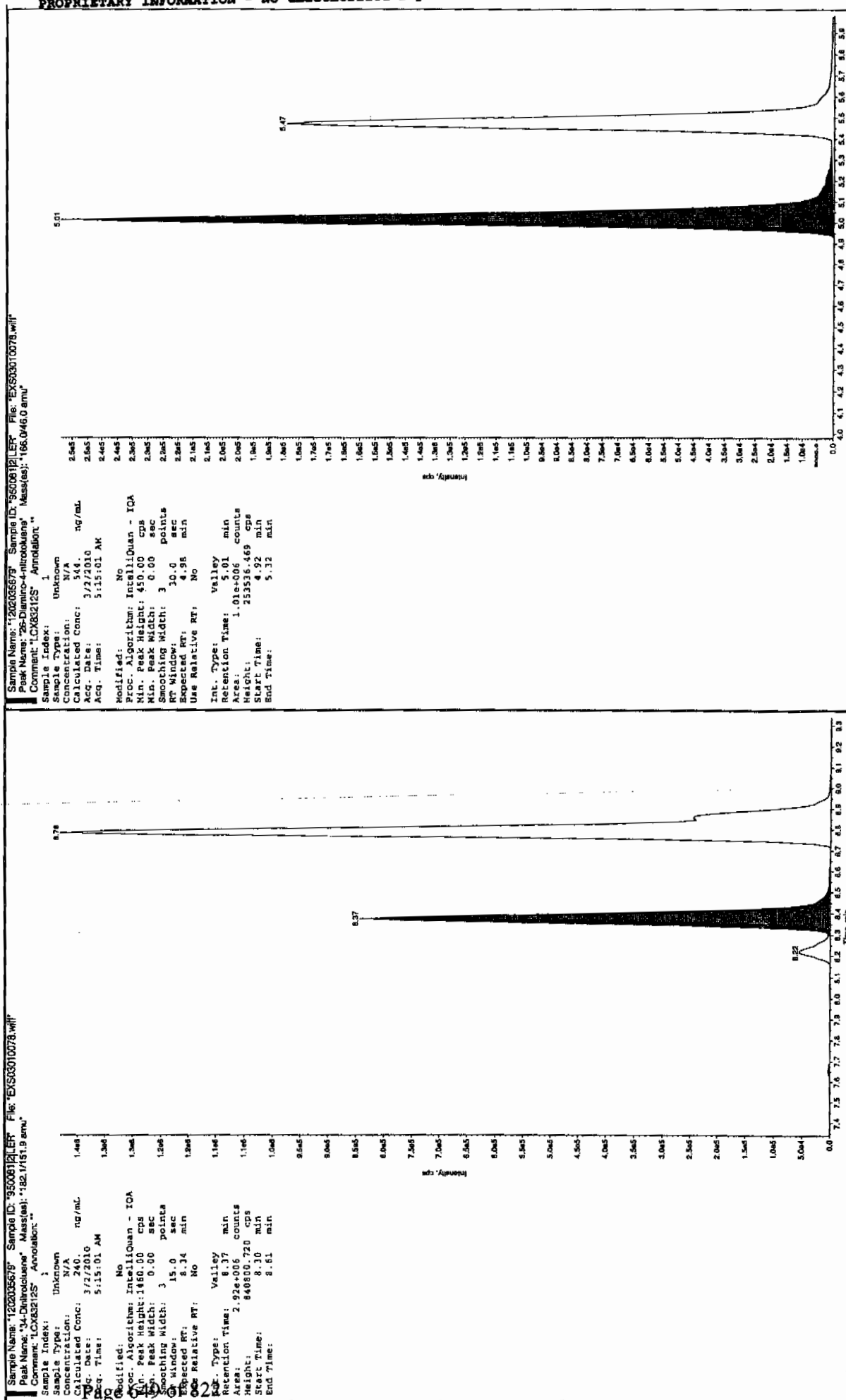
\*Concentration =

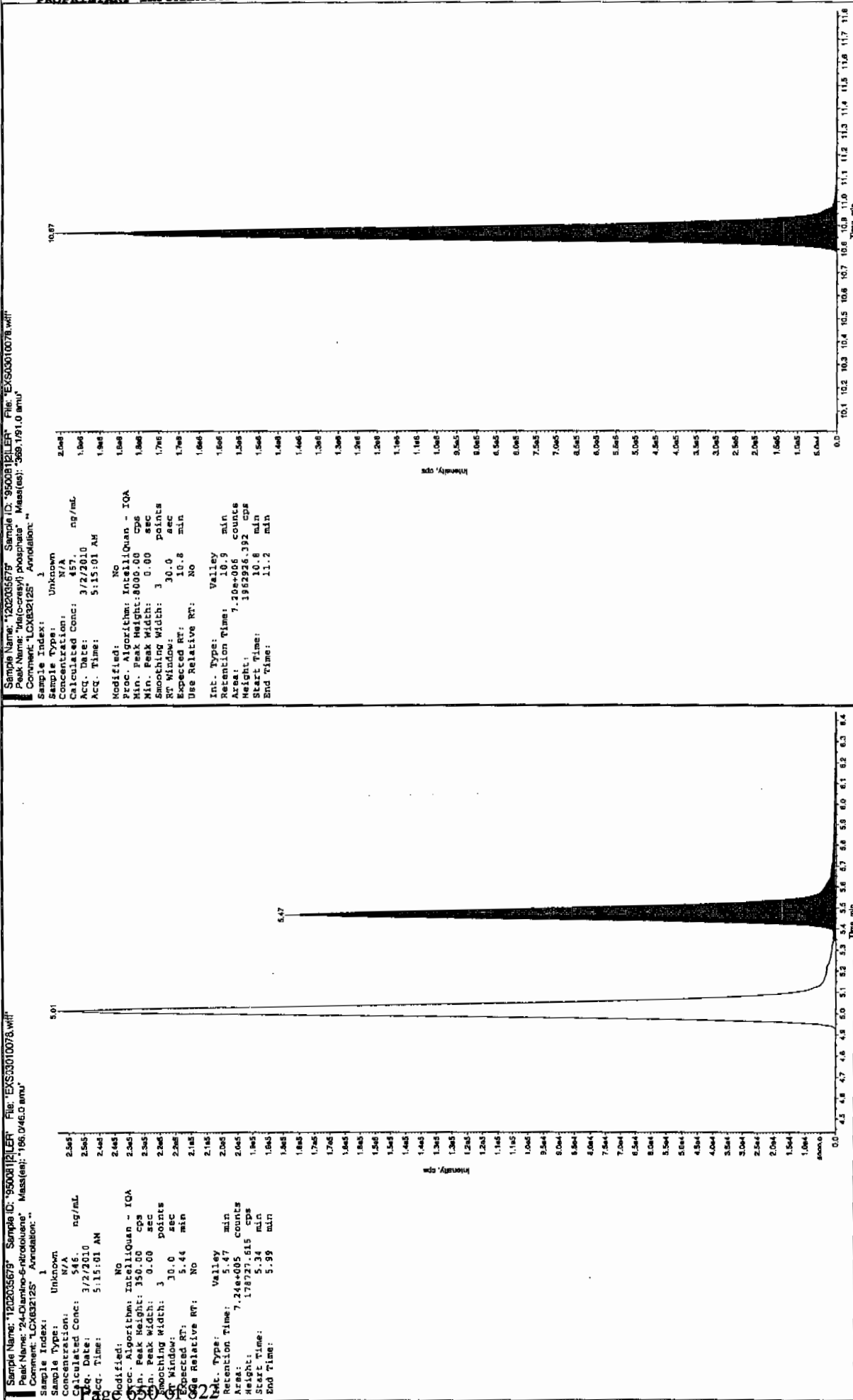
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor

flu 3/3/10



4/11/03/04/10





# MISCELLANEOUS DATA



# Prep Logbook Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 950080      Verified by: \_\_\_\_\_  
 Analyst: Sirena White  
 Method: SW846 8330 PREP      Lab SOP: GL-OA-E-033 REV# 17  
    Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202035678 MB	15-FEB-2010 17:15:00	2	10	5
1202035679 LCS	15-FEB-2010 17:15:00	2	10	5
246318001	15-FEB-2010 17:15:00	2	10	5
246318002	15-FEB-2010 17:15:00	2	10	5
246318003	15-FEB-2010 17:15:00	2	10	5
246318004	15-FEB-2010 17:15:00	2	10	5
246318005	15-FEB-2010 17:15:00	2	10	5
246318006	15-FEB-2010 17:15:00	2	10	5
246318007	15-FEB-2010 17:15:00	2	10	5
246318008	15-FEB-2010 17:15:00	2	10	5
246318009	15-FEB-2010 17:15:00	2	10	5
246330002	15-FEB-2010 17:15:00	2	10	5
1202035680 MS (246330002)	15-FEB-2010 17:15:00	2	10	5
1202035681 MSD (246330002)	15-FEB-2010 17:15:00	2	10	5
246330003	15-FEB-2010 17:15:00	2	10	5
246330004	15-FEB-2010 17:15:00	2	10	5
246330005	15-FEB-2010 17:15:00	2	10	5
246330006	15-FEB-2010 17:15:00	2	10	5
246330007	15-FEB-2010 17:15:00	2	10	5
246330008	15-FEB-2010 17:15:00	2	10	5
246330009	15-FEB-2010 17:15:00	2	10	5
246330010	15-FEB-2010 17:15:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202035679	8321 Explosives LCS	DXX100208-03	.1	mL	Final Solvent: ACN
LCS	1202035679	8321 LANT Explosives Mix 10mg/L	UXX100210-02.1	1	mL	
MS	1202035680	8321 Explosives LCS	DXX100208-03	.1	mL	
MS	1202035680	8321 LANT Explosives Mix 10mg/L	UXX100210-02.1	1	mL	
MSD	1202035681	8321 Explosives LCS	DXX100208-03	.1	mL	
MSD	1202035681	8321 LANT Explosives Mix 10mg/L	UXX100210-02.1	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Surrogate) 100ppm	DXF100210-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#3

Date: 03/12/10  
 Extr. Injection Volume: 10uL  
 Sequence Number: 031210  
 Initial Calibration Date: 031210  
 Method: 8321A-Modified  
 Int. Std.: UXX100220-02.1  
 Mobile Phase Lot#: 1277087, 1268566  
 Standard-Samp Reagent Lot#: 1274562, 1054171  
 Reviewed BY: *hnm*  
 Date: *03/24/10*  
 SOP: GL-OA-E-056 Rev.12  
 Alt Check Std. ID: WXX100312-56

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXP0312001.wiff	XIBLK01	LER	3/12/2010 7:58			1		USE	B
EXP0312002.wiff	XIBLK01	LER	3/12/2010 8:25			1		USE	B
EXP0312003.wiff	WXXICAL-50	LER	3/12/2010 8:51			1		USE	I
EXP0312004.wiff	WXXICAL-51	LER	3/12/2010 9:18			1		USE	I
EXP0312005.wiff	WXXICAL-52	LER	3/12/2010 9:44			1		USE	I
EXP0312006.wiff	WXXICAL-53	LER	3/12/2010 10:10			1		USE	I
EXP0312007.wiff	WXXICAL-54	LER	3/12/2010 10:37			1		USE	I
EXP0312008.wiff	WXXICAL-55	LER	3/12/2010 11:03			1		USE	I
EXP0312009.wiff	XIBLK02	LER	3/12/2010 11:29			1		USE	B
EXP0312010.wiff	WXXICV	LER	3/12/2010 11:56			1		USE	C
EXP0312011.wiff	XIBLK03	LER	3/12/2010 12:22			1		USE	B
EXP0312012.wiff	WXXCRI	LER	3/12/2010 12:49			1		USE	C
EXP0312013.wiff	245725004	LER	3/12/2010 13:15	946710	245725	200	PNTX	USE	S
EXP0312014.wiff	XIBLK04	LER	3/12/2010 13:41			1		USE	B
EXP0312015.wiff	245930002	LER	3/12/2010 14:08	947933	245930	200	PNTX	USE	S
EXP0312016.wiff	XIBLK05	LER	3/12/2010 14:34			1		USE	B
EXP0312017.wiff	245930003	LER	3/12/2010 15:00	947933	245930	200	PNTX	USE	S
EXP0312018.wiff	245930003	LER	3/12/2010 15:27	947933	245930	2		USE	S
EXP0312019.wiff	XIBLK06	LER	3/12/2010 15:53			1		USE	B
EXP0312020.wiff	245930004	LER	3/12/2010 16:20	947933	245930	200	PNTX	USE	S
EXP0312021.wiff	245930004	LER	3/12/2010 16:46	947933	245930	2	PNTX	USE	S
EXP0312022.wiff	WXXCCV	LER	3/12/2010 17:13			1		USE	C
EXP0312023.wiff	XIBLK07	LER	3/12/2010 17:39			1		USE	B
EXP0312024.wiff	WXXCRI	LER	3/12/2010 18:05			1		USE	C
EXP0312025.wiff	1202040477	LER	3/12/2010 18:32	952051	VARIOUS	2	LANL	USE	S
EXP0312026.wiff	1202040478	LER	3/12/2010 18:58	952051	VARIOUS	2	LANL	USE	S
EXP0312027.wiff	246732002	LER	3/12/2010 19:25	952051	10-1742	2	LANL	USE	S
EXP0312028.wiff	246732003	LER	3/12/2010 19:51	952051	10-1742	2	LANL	USE	S
EXP0312029.wiff	246732004	LER	3/12/2010 20:17	952051	10-1742	2	LANL	USE	S

EXP0312030.wiff	246732005	LER	3/12/2010 20:44	952051	10-1742	2	LANL	USE	S
EXP0312031.wiff	246732006	LER	3/12/2010 21:10	952051	10-1742	2	LANL	USE	S
EXP0312032.wiff	246744002	LER	3/12/2010 21:36	952051	10-1736	2	LANL	USE	S
EXP0312033.wiff	1202040479	LER	3/12/2010 22:03	952051	10-1736	2	LANL	USE	S
EXP0312034.wiff	1202040480	LER	3/12/2010 22:29	952051	10-1736	2	LANL	USE	S
EXP0312035.wiff	WXXCCV	LER	3/12/2010 22:56			1		USE	C
EXP0312036.wiff	XIBLK08	LER	3/12/2010 23:22			1		USE	B
EXP0312037.wiff	WXXCRI	LER	3/12/2010 23:49			1		USE	C
EXP0312038.wiff	246744003	LER	3/13/2010 0:15	952051	10-1736	2	LANL	USE	S
EXP0312039.wiff	246744004	LER	3/13/2010 0:41	952051	10-1736	2	LANL	USE	S
EXP0312040.wiff	246752002	LER	3/13/2010 1:08	952051	10-1745	2	LANL	USE	S
EXP0312041.wiff	246752003	LER	3/13/2010 1:34	952051	10-1745	2	LANL	USE	S
EXP0312042.wiff	246760001	LER	3/13/2010 2:01	952051	10-1739	2	LANL	USE	S
EXP0312043.wiff	246760002	LER	3/13/2010 2:27	952051	10-1739	2	LANL	USE	S
EXP0312044.wiff	246760003	LER	3/13/2010 2:53	952051	10-1739	2	LANL	USE	S
EXP0312045.wiff	246760004	LER	3/13/2010 3:20	952051	10-1739	2	LANL	USE	S
EXP0312046.wiff	246760005	LER	3/13/2010 3:46	952051	10-1739	2	LANL	USE	S
EXP0312047.wiff	246760006	LER	3/13/2010 4:13	952051	10-1739	2	LANL	USE	S
EXP0312048.wiff	WXXCCV	LER	3/13/2010 4:39			1		USE	C
EXP0312049.wiff	XIBLK09	LER	3/13/2010 5:06			1		USE	B
EXP0312050.wiff	WXXCRI	LER	3/13/2010 5:32			1		USE	C
EXP0312051.wiff	246760007	LER	3/13/2010 5:58	952051	10-1739	2	LANL	USE	S
EXP0312052.wiff	246760008	LER	3/13/2010 6:25	952051	10-1739	2	LANL	USE	S
EXP0312053.wiff	246760009	LER	3/13/2010 6:51	952051	10-1739	2	LANL	USE	S
EXP0312054.wiff	246760010	LER	3/13/2010 7:17	952051	10-1739	2	LANL	USE	S
EXP0312055.wiff	XIBLK10	LER	3/13/2010 7:44			1		USE	B
EXP0312056.wiff	1202041915	LER	3/13/2010 8:10	952684	10-1752-1	2	LANL	USE	S
EXP0312057.wiff	1202041916	LER	3/13/2010 8:37	952684	10-1752-1	2	LANL	USE	S
EXP0312058.wiff	246851001	LER	3/13/2010 9:03	952684	10-1752-1	2	LANL	USE	S
EXP0312059.wiff	1202041917	LER	3/13/2010 9:30	952684	10-1752-1	2	LANL	USE	S
EXP0312060.wiff	1202041918	LER	3/13/2010 9:56	952684	10-1752-1	2	LANL	USE	S
EXP0312061.wiff	WXXCCV	LER	3/13/2010 10:22			1		USE	C
EXP0312062.wiff	XIBLK11	LER	3/13/2010 10:49			1		USE	B
EXP0312063.wiff	WXXCRI	LER	3/13/2010 11:15			1		USE	C
EXP0312064.wiff	246851002	LER	3/13/2010 11:42	952684	10-1752-1	2	LANL	USE	S
EXP0312065.wiff	246851003	LER	3/13/2010 12:08	952684	10-1752-1	2	LANL	USE	S
EXP0312066.wiff	246851004	LER	3/13/2010 12:34	952684	10-1752-1	2	LANL	USE	S

EXP0312067.wiff	246851005	LER	3/13/2010 13:01	952684	10-1752-1	2	LANL	USE	S
EXP0312068.wiff	246851006	LER	3/13/2010 13:27	952684	10-1752-1	2	LANL	USE	S
EXP0312069.wiff	246851007	LER	3/13/2010 13:54	952684	10-1752-1	2	LANL	USE	S
EXP0312070.wiff	246851008	LER	3/13/2010 14:20	952684	10-1752-1	2	LANL	USE	S
EXP0312071.wiff	246851009	LER	3/13/2010 14:47	952684	10-1752-1	2	LANL	USE	S
EXP0312072.wiff	246851010	LER	3/13/2010 15:13	952684	10-1752-1	2	LANL	USE	S
EXP0312073.wiff	246851011	LER	3/13/2010 15:39	952684	10-1752-1	2	LANL	USE	S
EXP0312074.wiff	WXXCCV	LER	3/13/2010 16:06			1		USE	C
EXP0312075.wiff	XIBLK12	LER	3/13/2010 16:32			1		USE	B
EXP0312076.wiff	WXXCRI	LER	3/13/2010 16:59			1		USE	C
EXP0312077.wiff	1202035678	LER	3/13/2010 17:25	950081	VARIOUS	2	LANL	USE	S
EXP0312078.wiff	1202035679	LER	3/13/2010 17:52	950081	VARIOUS	2	LANL	USE	S
EXP0312079.wiff	246318001	LER	3/13/2010 18:18	950081	10-1564	2	LANL	USE	S
EXP0312080.wiff	246318002	LER	3/13/2010 18:45	950081	10-1564	2	LANL	USE	S
EXP0312081.wiff	246318003	LER	3/13/2010 19:11	950081	10-1564	2	LANL	USE	S
EXP0312082.wiff	246318004	LER	3/13/2010 19:37	950081	10-1564	2	LANL	USE	S
EXP0312083.wiff	246318005	LER	3/13/2010 20:04	950081	10-1564	2	LANL	USE	S
EXP0312084.wiff	246318006	LER	3/13/2010 20:30	950081	10-1564	2	LANL	USE	S
EXP0312085.wiff	246318007	LER	3/13/2010 20:57	950081	10-1564	2	LANL	USE	S
EXP0312086.wiff	246318008	LER	3/13/2010 21:23	950081	10-1564	2	LANL	USE	S
EXP0312087.wiff	WXXCCV	LER	3/13/2010 21:50			1		USE	C
EXP0312088.wiff	XIBLK13	LER	3/13/2010 22:16			1		USE	B
EXP0312089.wiff	WXXCRI	LER	3/13/2010 22:43			1		USE	C
EXP0312090.wiff	246318009	LER	3/13/2010 23:09	950081	10-1564	2	LANL	USE	S
EXP0312091.wiff	246330002	LER	3/13/2010 23:36	950081	10-1567	2	LANL	USE	S
EXP0312092.wiff	1202035680	LER	3/14/2010 0:02	950081	10-1567	2	LANL	USE	S
EXP0312093.wiff	1202035681	LER	3/14/2010 0:28	950081	10-1567	2	LANL	USE	S
EXP0312094.wiff	246330003	LER	3/14/2010 0:55	950081	10-1567	2	LANL	USE	S
EXP0312095.wiff	246330004	LER	3/14/2010 1:21	950081	10-1567	2	LANL	USE	S
EXP0312096.wiff	246330005	LER	3/14/2010 1:48	950081	10-1567	2	LANL	USE	S
EXP0312097.wiff	246330006	LER	3/14/2010 3:14	950081	10-1567	2	LANL	USE	S
EXP0312098.wiff	246330007	LER	3/14/2010 3:41	950081	10-1567	2	LANL	USE	S
EXP0312099.wiff	WXXCCV	LER	3/14/2010 4:07			1		USE	C
EXP0312100.wiff	XIBLK14	LER	3/14/2010 4:34			1		USE	B
EXP0312101.wiff	WXXCRI	LER	3/14/2010 5:00			1		USE	C
EXP0312102.wiff	246330008	LER	3/14/2010 5:26	950081	10-1567	2	LANL	USE	S
EXP0312103.wiff	246330009	LER	3/14/2010 5:53	950081	10-1567	2	LANL	USE	S

EXP0312104.wiff	246330010	LER	3/14/2010 6:19	950081	10-1567	2	LANL	USE	S
EXP0312105.wiff	XIBLK15	LER	3/14/2010 6:46			1		USE	B
EXP0312106.wiff	1202041927	LER	3/14/2010 7:12	952690	10-1755	2	LANL	USE	S
EXP0312107.wiff	1202041928	LER	3/14/2010 7:38	952690	10-1755	2	LANL	USE	S
EXP0312108.wiff	246856002	LER	3/14/2010 8:05	952690	10-1755	2	LANL	USE	S
EXP0312109.wiff	1202041929	LER	3/14/2010 8:31	952690	10-1755	2	LANL	USE	S
EXP0312110.wiff	1202041930	LER	3/14/2010 8:57	952690	10-1755	2	LANL	USE	S
EXP0312111.wiff	WXXCCV	LER	3/14/2010 9:24			1		USE	C
EXP0312112.wiff	XIBLK16	LER	3/14/2010 9:50			1		USE	B
EXP0312113.wiff	WXXCRI	LER	3/14/2010 10:16			1		USE	C
EXP0312114.wiff	246856003	LER	3/14/2010 10:43	952690	10-1755	2	LANL	USE	S
EXP0312115.wiff	246856004	LER	3/14/2010 11:09	952690	10-1755	2	LANL	USE	S
EXP0312116.wiff	246856005	LER	3/14/2010 11:36	952690	10-1755	2	LANL	USE	S
EXP0312117.wiff	246856006	LER	3/14/2010 12:02	952690	10-1755	2	LANL	USE	S
EXP0312118.wiff	246856007	LER	3/14/2010 12:28	952690	10-1755	2	LANL	USE	S
EXP0312119.wiff	246856008	LER	3/14/2010 12:55	952690	10-1755	2	LANL	USE	S
EXP0312120.wiff	246856009	LER	3/14/2010 13:21	952690	10-1755	2	LANL	USE	S
EXP0312121.wiff	246856010	LER	3/14/2010 13:48	952690	10-1755	2	LANL	USE	S
EXP0312122.wiff	WXXCCV	LER	3/14/2010 14:14			1		USE	C
EXP0312123.wiff	XIBLK17	LER	3/14/2010 14:40			1		USE	B
EXP0312124.wiff	WXXCRI	LER	3/14/2010 15:07			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/01/10  
 Extr. Injection Volume: 10uL  
 Sequence Number: 030110exs  
 Initial Calibration Date: 030110  
 Method: 8321A-Modified  
 Int. Std.: N/A  
 Mobile Phase Lot#: 1268566, 1268568  
 Standard-Samp Reagent Lot#: 1274562, 1261217  
 Reviewed By: *Amk*  
 Date: *2/24/10*  
 SOP: GL-OA-E-056 Rev.12  
 Alt Check Std. ID: WXX100301-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03010001.wiff	XIBLK01	LER	3/1/2010 9:03			1		USE	B
EXS03010002.wiff	XIBLK01	LER	3/1/2010 9:19			1		USE	B
EXS03010003.wiff	WXXICAL-19	LER	3/1/2010 9:34			1		USE	I
EXS03010004.wiff	WXXICAL-20	LER	3/1/2010 9:50			1		USE	I
EXS03010005.wiff	WXXICAL-21	LER	3/1/2010 10:06			1		USE	I
EXS03010006.wiff	WXXICAL-22	LER	3/1/2010 10:21			1		USE	I
EXS03010007.wiff	WXXICAL-23	LER	3/1/2010 10:37			1		USE	I
EXS03010008.wiff	WXXICAL-24	LER	3/1/2010 10:53			1		USE	I
EXS03010009.wiff	WXXICAL-25	LER	3/1/2010 11:09			1		USE	I
EXS03010010.wiff	XIBLK02	LER	3/1/2010 11:24			1		USE	B
EXS03010011.wiff	WXXICV	LER	3/1/2010 11:40			1		USE	C
EXS03010012.wiff	XIBLK03	LER	3/1/2010 11:56			1		USE	B
EXS03010013.wiff	WXXCRI	LER	3/1/2010 12:11			1		USE	C
EXS03010014.wiff	246744003	LER	3/1/2010 12:27	952051	10-1736	2	LANL	USE	S
EXS03010015.wiff	246744004	LER	3/1/2010 12:43	952051	10-1736	2	LANL	USE	S
EXS03010016.wiff	246752002	LER	3/1/2010 12:59	952051	10-1745	2	LANL	USE	S
EXS03010017.wiff	246752003	LER	3/1/2010 13:14	952051	10-1745	2	LANL	USE	S
EXS03010018.wiff	246760001	LER	3/1/2010 13:30	952051	10-1739	2	LANL	USE	S
EXS03010019.wiff	246760002	LER	3/1/2010 13:46	952051	10-1739	2	LANL	USE	S
EXS03010020.wiff	246760003	LER	3/1/2010 14:01	952051	10-1739	2	LANL	USE	S
EXS03010021.wiff	246760004	LER	3/1/2010 14:17	952051	10-1739	2	LANL	USE	S
EXS03010022.wiff	246760005	LER	3/1/2010 14:33	952051	10-1739	2	LANL	USE	S
EXS03010023.wiff	246760006	LER	3/1/2010 14:49	952051	10-1739	2	LANL	USE	S
EXS03010024.wiff	WXXCCV	LER	3/1/2010 15:04			1		USE	C
EXS03010025.wiff	XIBLK04	LER	3/1/2010 15:20			1		USE	B
EXS03010026.wiff	WXXCRI	LER	3/1/2010 15:36			1		USE	C
EXS03010027.wiff	246760007	LER	3/1/2010 15:52	952051	10-1739	2	LANL	USE	S
EXS03010028.wiff	246760008	LER	3/1/2010 16:07	952051	10-1739	2	LANL	USE	S
EXS03010029.wiff	246760009	LER	3/1/2010 16:23	952051	10-1739	2	LANL	USE	S
EXS03010030.wiff	246760010	LER	3/1/2010 16:39	952051	10-1739	2	LANL	USE	S

[illegible]

EXS03010068.wiff	246856005	LER	3/2/2010 2:37	952690	10-1755	2	LANL	USE	S
EXS03010069.wiff	246856006	LER	3/2/2010 2:53	952690	10-1755	2	LANL	USE	S
EXS03010070.wiff	246856007	LER	3/2/2010 3:09	952690	10-1755	2	LANL	USE	S
EXS03010071.wiff	246856008	LER	3/2/2010 3:24	952690	10-1755	2	LANL	USE	S
EXS03010072.wiff	246856009	LER	3/2/2010 3:40	952690	10-1755	2	LANL	USE	S
EXS03010073.wiff	246856010	LER	3/2/2010 3:56	952690	10-1755	2	LANL	USE	S
EXS03010074.wiff	WXXCCV	LER	3/2/2010 4:11			1		USE	C
EXS03010075.wiff	XIBLK09	LER	3/2/2010 4:27			1		USE	B
EXS03010076.wiff	WXXCRI	LER	3/2/2010 4:43			1		USE	C
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EXS03010079.wiff	246318001	LER	3/2/2010 5:30	950081	10-1564	2	LANL	USE	S
EXS03010080.wiff	246318002	LER	3/2/2010 5:46	950081	10-1564	2	LANL	USE	S
EXS03010081.wiff	246318003	LER	3/2/2010 6:02	950081	10-1564	2	LANL	USE	S
EXS03010082.wiff	246318004	LER	3/2/2010 6:17	950081	10-1564	2	LANL	USE	S
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EXS03010084.wiff	246318006	LER	3/2/2010 6:49	950081	10-1564	2	LANL	USE	S
EXS03010085.wiff	246318007	LER	3/2/2010 7:05	950081	10-1564	2	LANL	USE	S
EXS03010086.wiff	246318008	LER	3/2/2010 7:20	950081	10-1564	2	LANL	USE	S
EXS03010087.wiff	WXXCCV	LER	3/2/2010 7:36			1		USE	C
EXS03010088.wiff	XIBLK10	LER	3/2/2010 7:52			1		USE	B
EXS03010089.wiff	WXXCRI	LER	3/2/2010 8:08			1		USE	C
EXS03010090.wiff	246318009	LER	3/2/2010 8:23	950081	10-1564	2	LANL	USE	S
EXS03010091.wiff	246330002	LER	3/2/2010 8:39	950081	10-1567	2	LANL	USE	S
EXS03010092.wiff	1202035580	LER	3/2/2010 8:55	950081	10-1567	2	LANL	USE	S
EXS03010093.wiff	1202035581	LER	3/2/2010 9:11	950081	10-1567	2	LANL	USE	S
EXS03010094.wiff	246330003	LER	3/2/2010 9:26	950081	10-1567	2	LANL	USE	S
EXS03010095.wiff	246330004	LER	3/2/2010 9:42	950081	10-1567	2	LANL	USE	S
EXS03010096.wiff	246330005	LER	3/2/2010 9:58	950081	10-1567	2	LANL	USE	S
EXS03010097.wiff	246330006	LER	3/2/2010 10:14	950081	10-1567	2	LANL	USE	S
EXS03010098.wiff	246330007	LER	3/2/2010 10:29	950081	10-1567	2	LANL	USE	S
EXS03010099.wiff	246330008	LER	3/2/2010 10:45	950081	10-1567	2	LANL	USE	S
EXS03010100.wiff	WXXCCV	LER	3/2/2010 11:01			1		USE	C
EXS03010101.wiff	XIBLK11	LER	3/2/2010 11:17			1		USE	B
EXS03010102.wiff	WXXCRI	LER	3/2/2010 11:32			1		USE	C
EXS03010103.wiff	246330009	LER	3/2/2010 11:48	950081	10-1567	2	LANL	USE	S
EXS03010104.wiff	246330010	LER	3/2/2010 12:04	950081	10-1567	2	LANL	USE	S

for 3/4/10



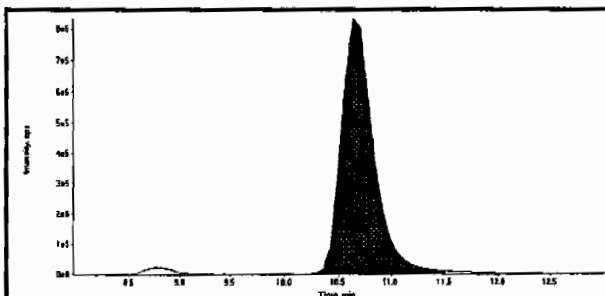
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EXS03010142.wiff	246434010	LER	3/2/2010 22:03	950087	10-1620	2	LANL	USE	S
EXS03010143.wiff	246434011	LER	3/2/2010 22:18	950087	10-1620	2	LANL	USE	S
EXS03010144.wiff	246434012	LER	3/2/2010 22:34	950087	10-1620	2	LANL	USE	S
EXS03010145.wiff	246434013	LER	3/2/2010 22:50	950087	10-1620	2	LANL	USE	S
EXS03010146.wiff	246434014	LER	3/2/2010 23:06	950087	10-1620	2	LANL	USE	S
EXS03010147.wiff	246434015	LER	3/2/2010 23:21	950087	10-1620	2	LANL	USE	S
EXS03010148.wiff	246442002	LER	3/2/2010 23:37	950087	10-1623	2	LANL	USE	S
EXS03010149.wiff	246442003	LER	3/2/2010 23:53	950087	10-1623	2	LANL	USE	S
EXS03010150.wiff	WXXCCV	LER	3/3/2010 0:09	950087	10-1623	1		USE	C
EXS03010151.wiff	XIBLK16	LER	3/3/2010 0:24			1		USE	B
EXS03010152.wiff	WXXCRI	LER	3/3/2010 0:40			1		USE	C
EXS03010153.wiff	246442004	LER	3/3/2010 0:56	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010154.wiff	246442005	LER	3/3/2010 1:12	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010155.wiff	246442006	LER	3/3/2010 1:27	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010156.wiff	XIBLK17	LER	3/3/2010 1:43			1		DUSE-RA	B
EXS03010157.wiff	1202035603	LER	3/3/2010 1:59	950039	VARIOUS	2	LANL	DUSE-RA	S
EXS03010158.wiff	1202035604	LER	3/3/2010 2:15	950039	VARIOUS	2	LANL	DUSE-RA	S
EXS03010159.wiff	246289008	LER	3/3/2010 2:31	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010160.wiff	1202035607	LER	3/3/2010 2:46	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010161.wiff	1202035608	LER	3/3/2010 3:02	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010162.wiff	246301006	LER	3/3/2010 3:18	950039	10-1596	2	LANL	DUSE-RA	S
EXS03010163.wiff	WXXCCV	LER	3/3/2010 3:34			1		DUSE-RA	C
EXS03010164.wiff	XIBLK18	LER	3/3/2010 3:49			1		DUSE-RA	B
EXS03010165.wiff	WXXCRI	LER	3/3/2010 4:05			1		DUSE-RA	C
EXS03010166.wiff	246301011	LER	3/3/2010 4:21	950039	10-1596	2	LANL	DUSE-RA	S
EXS03010167.wiff	246345006	LER	3/3/2010 4:37	950039	10-1614	2	LANL	DUSE-RA	S
EXS03010168.wiff	246473005	LER	3/3/2010 4:52	950039	10-1643	2	LANL	DUSE-RA	S
EXS03010169.wiff	246475004	LER	3/3/2010 5:08	950039	10-1645	2	LANL	DUSE-RA	S
EXS03010170.wiff	246479004	LER	3/3/2010 5:24	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010171.wiff	1202035605	LER	3/3/2010 5:40	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010172.wiff	1202035606	LER	3/3/2010 5:55	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010173.wiff	WXXCCV	LER	3/3/2010 6:11			1		DUSE-RA	C
EXS03010174.wiff	XIBLK19	LER	3/3/2010 6:27			1		DUSE-RA	B
EXS03010175.wiff	WXXCRI	LER	3/3/2010 6:43			1		DUSE-RA	C

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

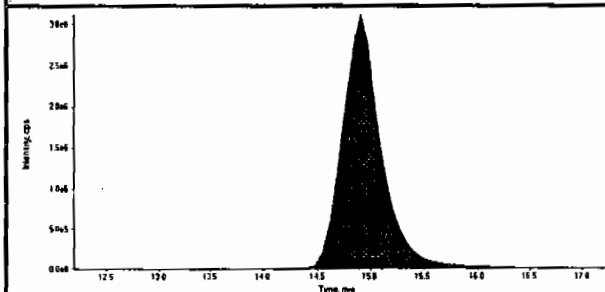
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



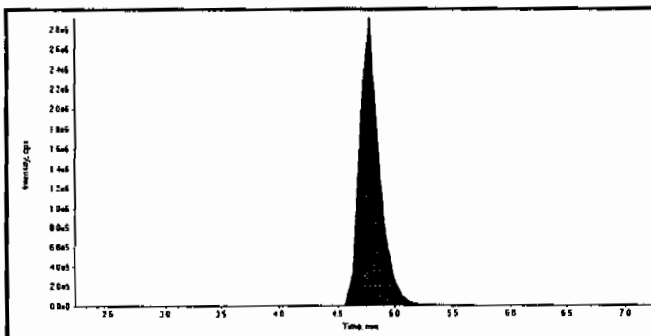
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	18200000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries

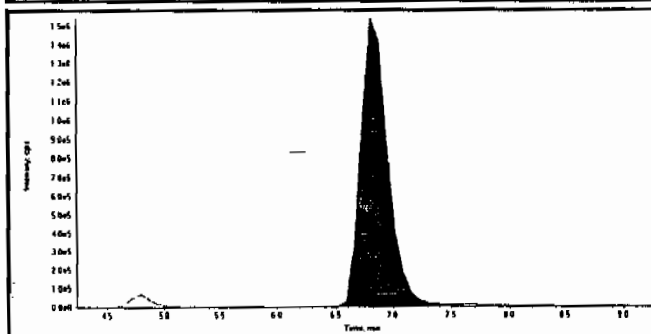


Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	81300000.00
Manual Modification	No
Amount:	500.00(ng/mL)

Please refer to Form 8 for a list of Internal Standard Recoveries



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.60e+007
Manual Modification	No
Amount:	432. (ng/mL)
% Accuracy:	N/A



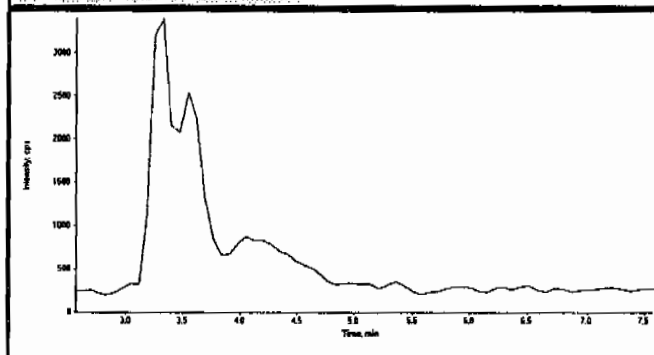
Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.60e+007
Manual Modification	No
Amount:	453. (ng/mL)
% Accuracy:	N/A

*Handwritten:* 3/24/10  
3/24/10

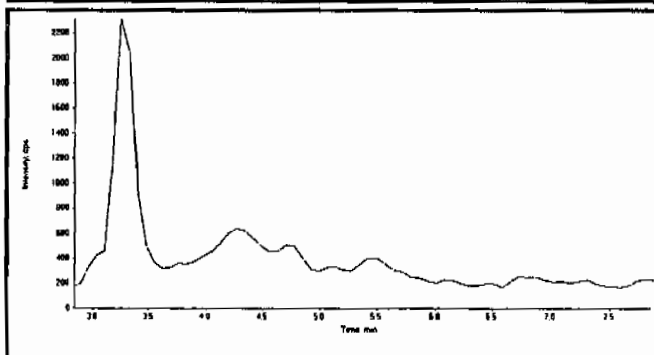
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

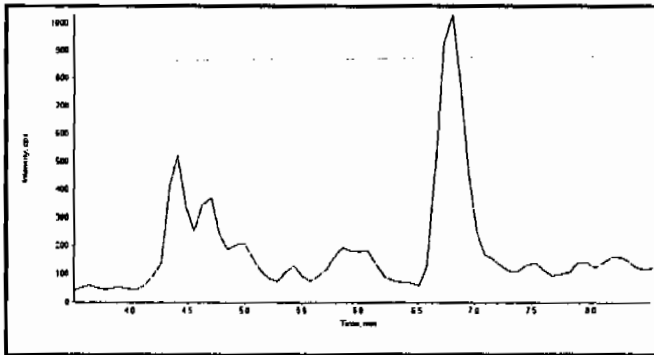
Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



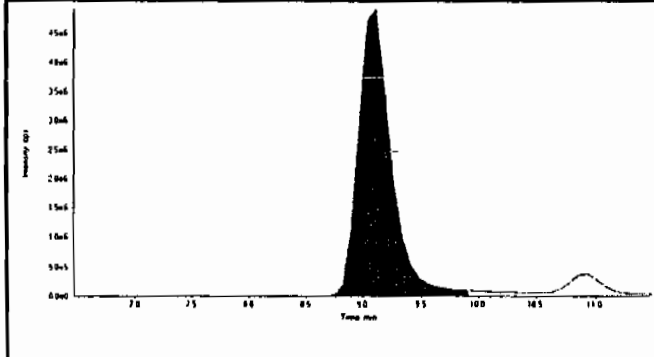
Compound Name:	TNX (219.0/45.0 amu)
Expected RT:	5.06
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	DNX (235.0/45.0 amu)
Expected RT:	5.35
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	MNX (251.0/46.0 amu)
Expected RT:	6.00
Actual RT:	0.00
Area Counts:	0.00e+000
Manual Modification	No
Amount:	N/A (ng/mL)
% Accuracy:	N/A



Compound Name:	135-Trinitrobenzene (213.0/182.8 amu)
Expected RT:	8.97
Actual RT:	9.12
Area Counts:	9.68e+007
Manual Modification	No
Amount:	435. (ng/mL)
% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312092.wiff	<b>Acquisition Date</b>	3/14/2010 12:02:29 AM
<b>Sample Name</b>	1202035680	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	Expected RT:	10.6
	Actual RT:	10.8
	Area Counts:	4.57e+007
	Manual Modification	No
	Amount:	468. (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	Expected RT:	10.7
	Actual RT:	10.9
	Area Counts:	4.06e+007
	Manual Modification	No
	Amount:	322. (ng/mL)
	% Accuracy:	N/A

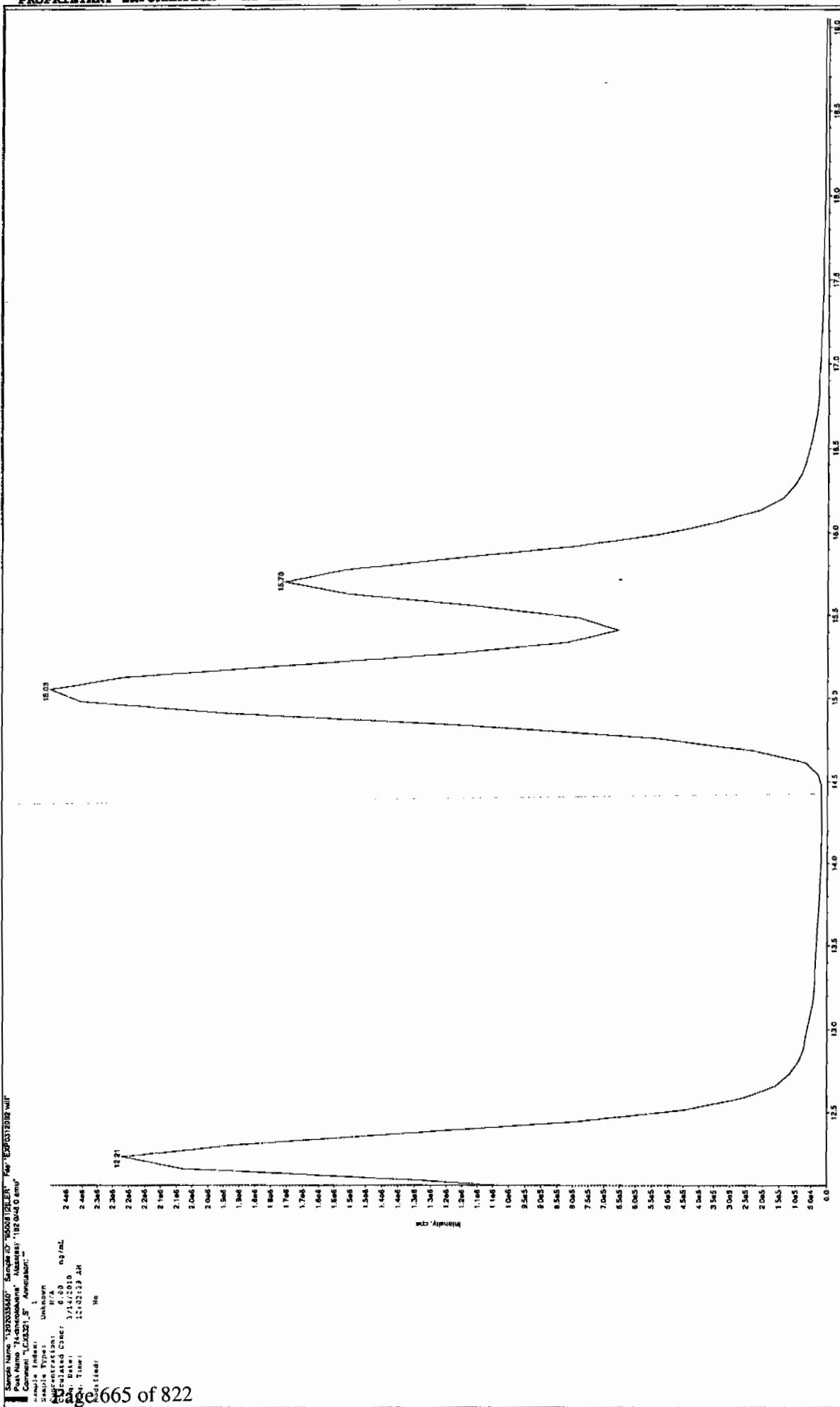
  

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	1.61e+008
	Manual Modification	No
	Amount:	423. (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	Expected RT:	11.8
	Actual RT:	11.9
	Area Counts:	2.36e+006
	Manual Modification	No
	Amount:	426. (ng/mL)
	% Accuracy:	N/A

Before Jan 31/10



Sample Name: "120303540" Sample ID: "602010121" Rev: "2003032002.mil"  
 Peak Name: "Adrenomedullin" Address: "182.045.0.amu"  
 Comment: "LCA321\_5" Annotation: --  
 Sample Index: 1  
 Sample Type: Unknown  
 Sample Location: N/A  
 Estimated Conc: 0.03 ng/mL  
 Date: 3/11/2010  
 Time: 12:02:19 AM  
 Diluted: No

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.66e+007
	Manual Modification	No
	Amount:	232. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	6.50e+007
	Manual Modification	No
	Amount:	488. (ng/mL)
	% Accuracy:	N/A

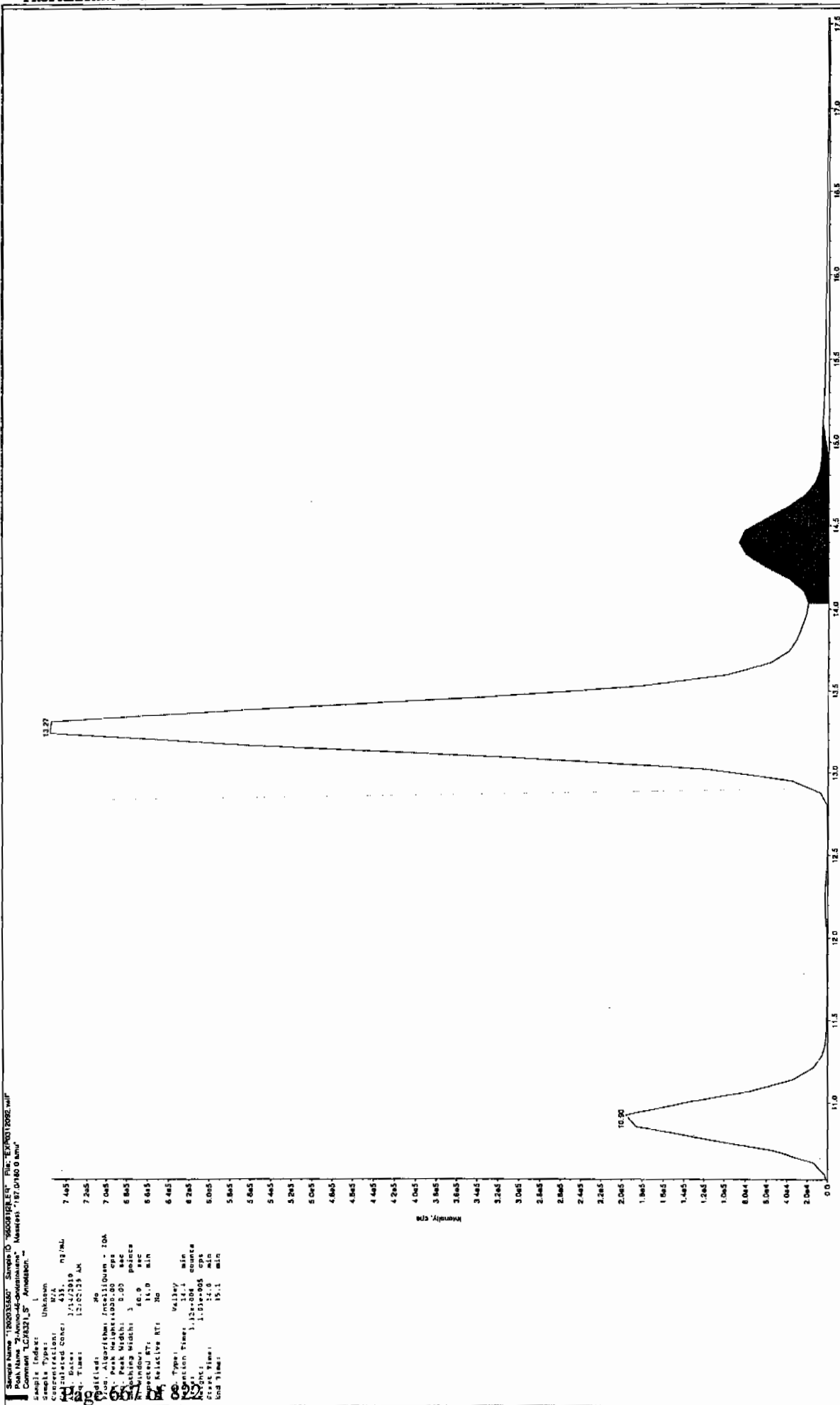
  

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	4.49e+007
	Manual Modification	Yes
	Amount:	469. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.3
	Area Counts:	7.35e+007
	Manual Modification	No
	Amount:	485. (ng/mL)
	% Accuracy:	N/A

Before Dec 3/24/10

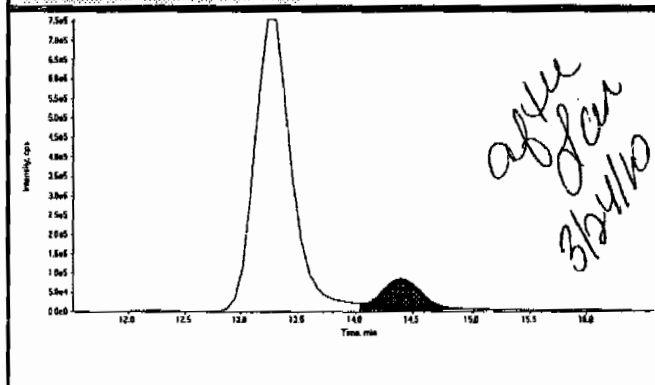




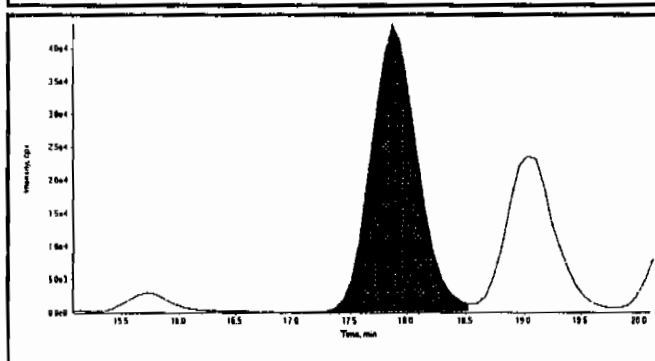
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

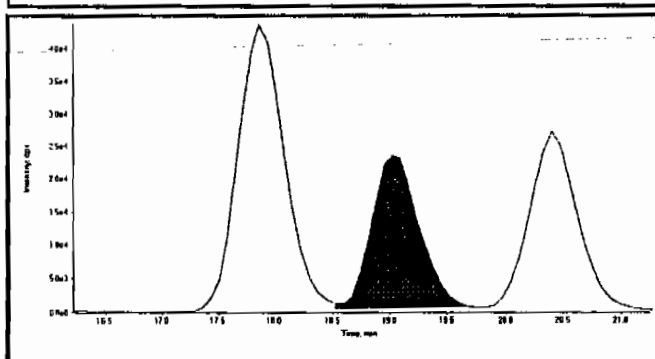
Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch/Dilution/Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



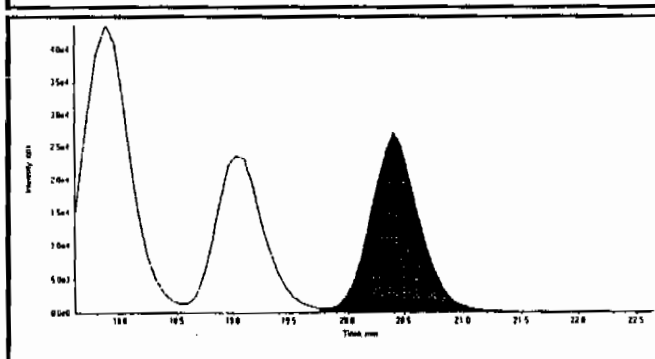
Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
Expected RT:	14.0
Actual RT:	14.4
Area Counts:	2.29e+006
Manual Modification	Yes
Amount:	466. (ng/mL)
% Accuracy:	N/A



Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
Expected RT:	17.6
Actual RT:	17.9
Area Counts:	1.24e+006
Manual Modification	No
Amount:	450. (ng/mL)
% Accuracy:	N/A



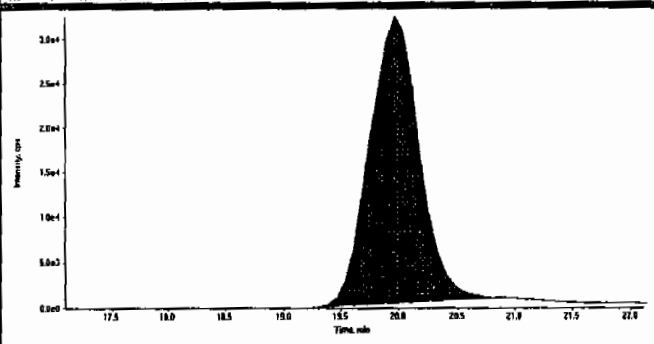
Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
Expected RT:	18.7
Actual RT:	19.0
Area Counts:	6.71e+005
Manual Modification	No
Amount:	443. (ng/mL)
% Accuracy:	N/A



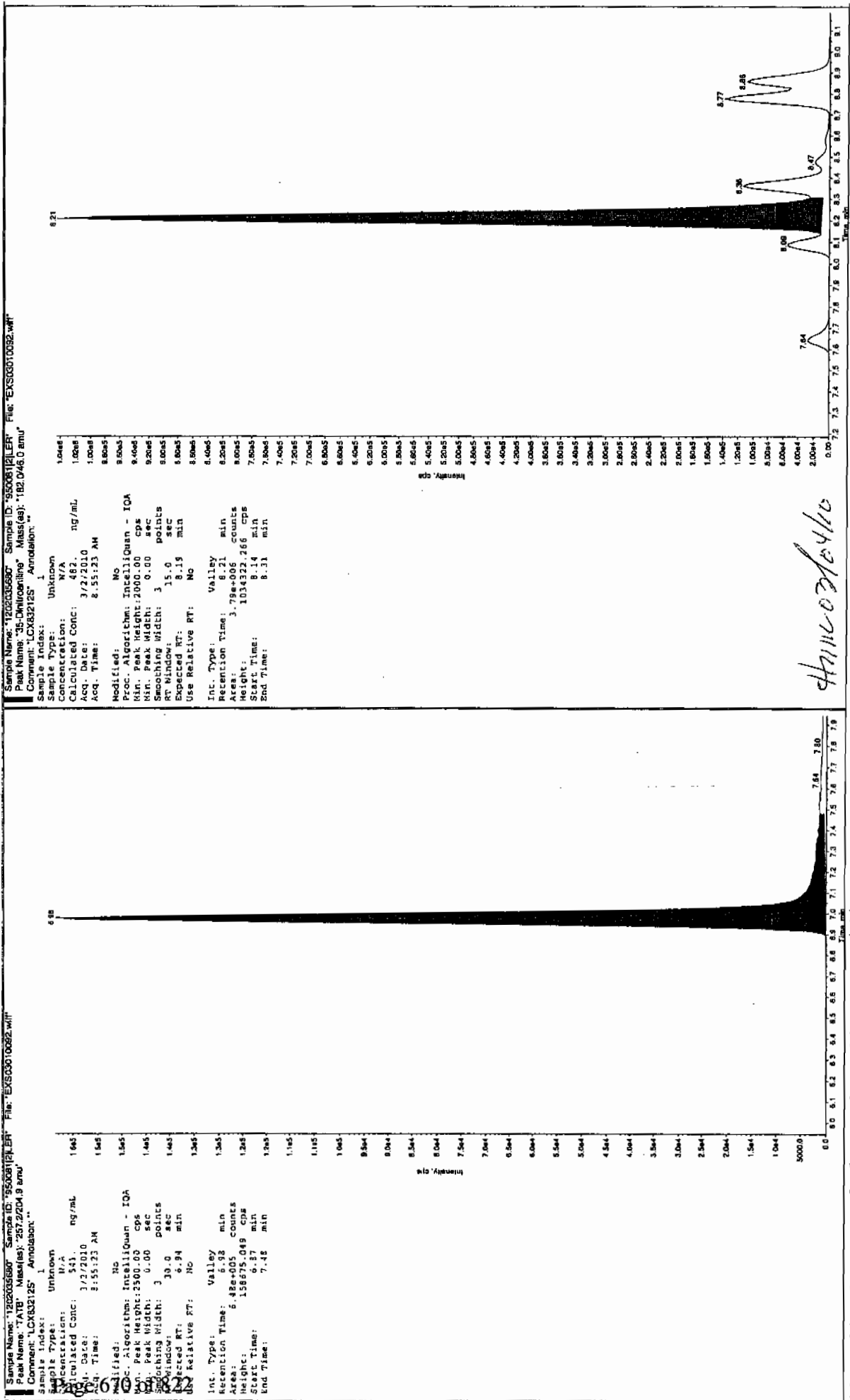
Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
Expected RT:	20.1
Actual RT:	20.4
Area Counts:	8.01e+005
Manual Modification	No
Amount:	475. (ng/mL)
% Accuracy:	N/A

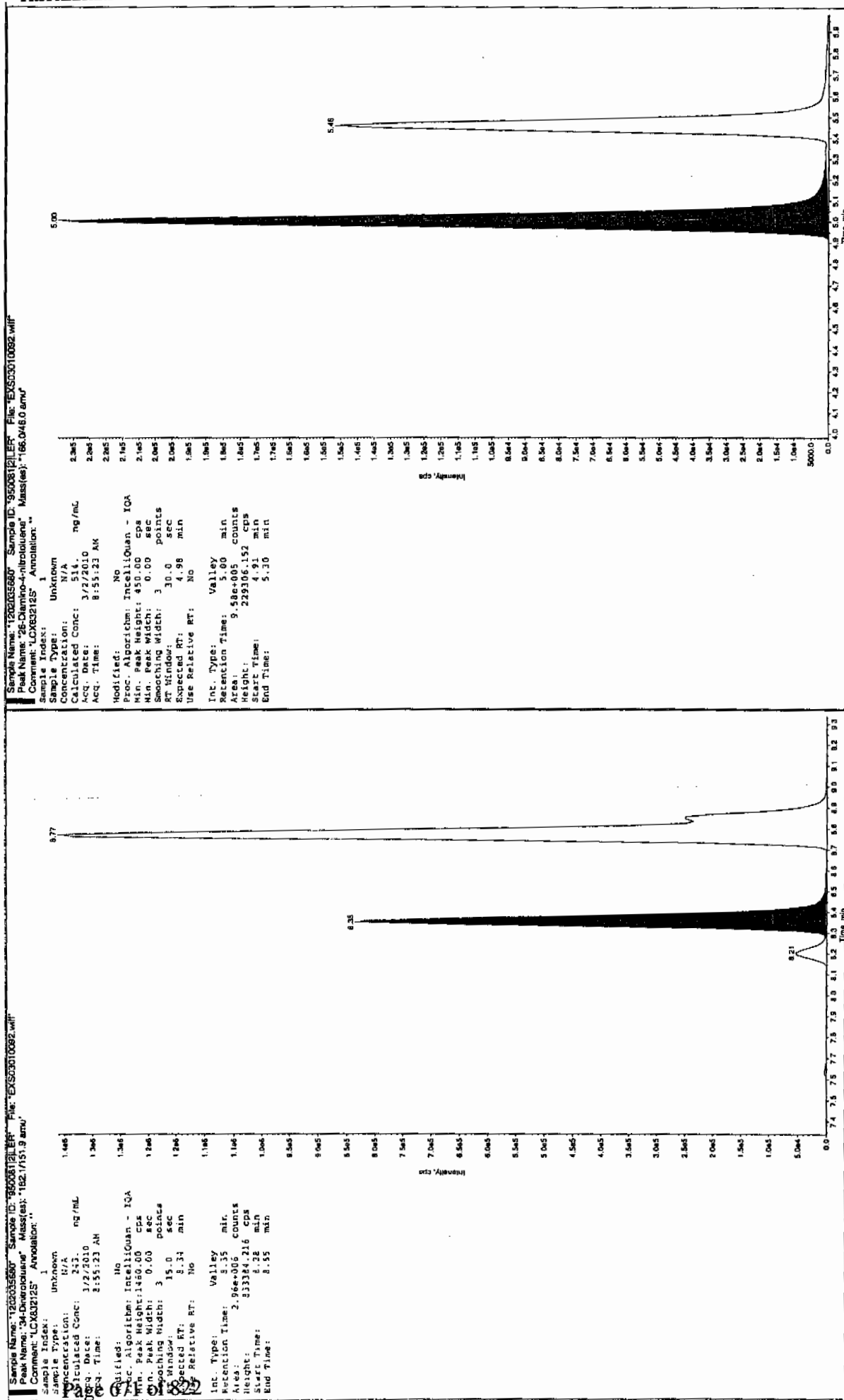
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312092.wiff	Acquisition Date	3/14/2010 12:02:29 AM
Sample Name	1202035680	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	20.0
		Area Counts:	9.52e+005
		Manual Modification	No
		Amount:	515. (ng/mL)
		% Accuracy:	N/A

01/12/10  
JUN 2/10







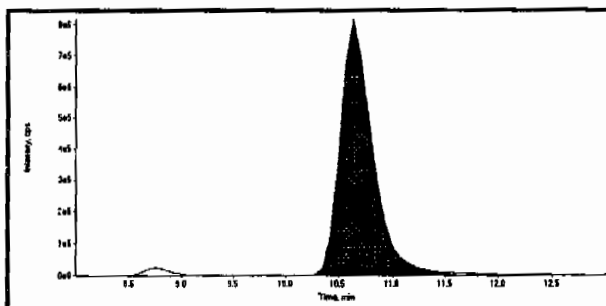
Sample Name: 1202035680 Sample ID: 950081121ER File: EX03010092.wil  
Peak Name: 24-Diamino-6-nitrotoluene Mass(es): 166.0/46.0 amu



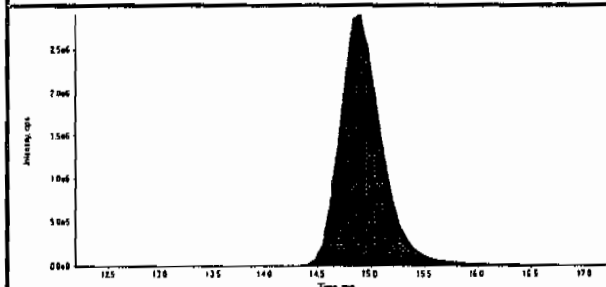
GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

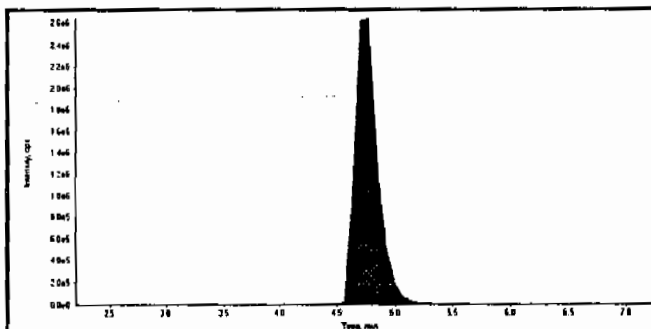
Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown



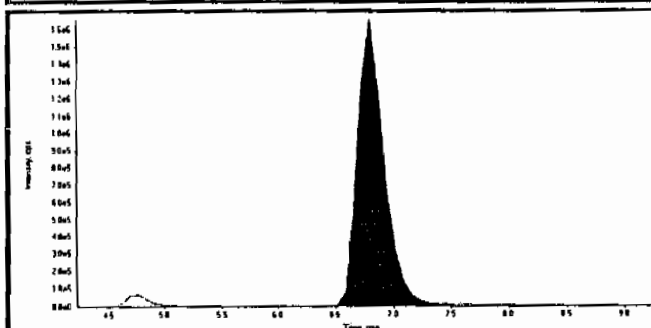
Compound Name:	13-Dinitrobenzene-d4 (172.1/46.1 amu)
Expected RT:	10.50
Actual RT:	10.60
Area Counts:	17000000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	26-Dinitrotoluene-d3 (185.0/155.0 amu)
Expected RT:	14.70
Actual RT:	14.90
Area Counts:	80200000.00
Manual Modification	No
Amount:	500.00(ng/mL)
Please refer to Form 8 for a list of Internal Standard Recoveries	



Compound Name:	HMX (341.2/46.0 amu)
Expected RT:	4.70
Actual RT:	4.77
Area Counts:	3.63e+007
Manual Modification	No
Amount:	467. (ng/mL)
% Accuracy:	N/A



Compound Name:	RDX (267.0/46.1 amu)
Expected RT:	6.73
Actual RT:	6.80
Area Counts:	2.62e+007
Manual Modification	No
Amount:	489. (ng/mL)
% Accuracy:	N/A

*far*  
*3/14/10 HMX 02/24/10*

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312093.wiff	<b>Acquisition Date</b>	3/14/2010 12:28:46 AM
<b>Sample Name</b>	1202035681	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	TNX (219.0/45.0 amu)
	Expected RT:	5.06
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	DNX (235.0/45.0 amu)
	Expected RT:	5.35
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	MNX (251.0/46.0 amu)
	Expected RT:	6.00
	Actual RT:	0.00
	Area Counts:	0.00e+000
	Manual Modification	No
	Amount:	N/A (ng/mL)
	% Accuracy:	N/A

	<b>Compound Name:</b>	135-Trinitrobenzene (213.0/182.8 amu)
	Expected RT:	8.97
	Actual RT:	9.04
	Area Counts:	1.00e+008
	Manual Modification	No
	Amount:	482. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

<b>Data File</b>	EXP0312093.wiff	<b>Acquisition Date</b>	3/14/2010 12:28:46 AM
<b>Sample Name</b>	1202035681	<b>Acquisition Method</b>	8321_pntx.dam
<b>Batch Dilution Analyst</b>	950081 2 LER	<b>Result Table</b>	031210.rdb
<b>Procedure Code</b>	LCX8321_S	<b>Sample Type</b>	Unknown

	<b>Compound Name:</b>	13-Dinitrobenzene (168.0/137.9 amu)
	<b>Expected RT:</b>	10.6
	<b>Actual RT:</b>	10.8
	<b>Area Counts:</b>	4.71e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	516. (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	Tetryl (241.0/180.8 amu)
	<b>Expected RT:</b>	10.7
	<b>Actual RT:</b>	10.9
	<b>Area Counts:</b>	4.95e+007
	<b>Manual Modification</b>	No
	<b>Amount:</b>	421. (ng/mL)
	<b>% Accuracy:</b>	N/A

	<b>Compound Name:</b>	246-Trinitrotoluene (227.1/209.8 amu)
	<b>Expected RT:</b>	13.1
	<b>Actual RT:</b>	13.3
	<b>Area Counts:</b>	1.68e+008
	<b>Manual Modification</b>	No
	<b>Amount:</b>	448. (ng/mL)
	<b>% Accuracy:</b>	N/A

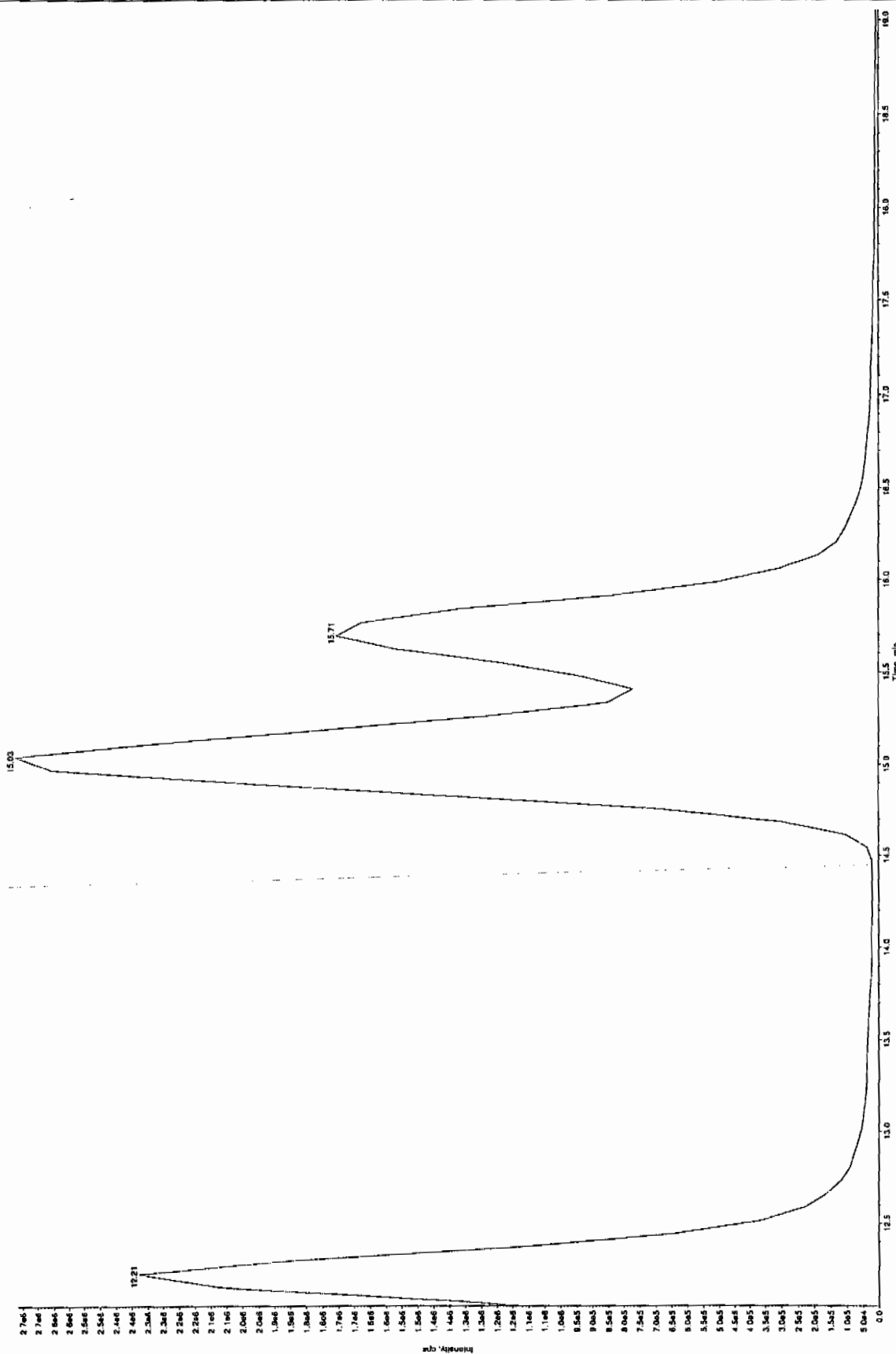
	<b>Compound Name:</b>	Nitrobenzene (123.0/46.0 amu)
	<b>Expected RT:</b>	11.8
	<b>Actual RT:</b>	11.9
	<b>Area Counts:</b>	2.47e+006
	<b>Manual Modification</b>	No
	<b>Amount:</b>	477. (ng/mL)
	<b>% Accuracy:</b>	N/A



Before Jan 3/24/10

Sample Name: "120033681" Sample ID: "95001212" File: "EXP0112033.wif"  
 Peak Name: "p-aminobenzoate" Masses: "182.046 0 amu"  
 Concentration: "0.0001" Unit: "mg/mL"

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Date Acquired: 1/14/2010  
 Date Sampled: 12/28/08 AM  
 Date: N/A  
 Time: 12:28:16 AM  
 No. of Runs: 10



GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

	Compound Name:	34-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	12.0
	Actual RT:	12.2
	Area Counts:	4.54e+007
	Manual Modification	No
	Amount:	230. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	26-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	14.8
	Actual RT:	15.0
	Area Counts:	7.10e+007
	Manual Modification	No
	Amount:	544. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	24-dinitrotoluene (182.0/46.0 amu)
	Expected RT:	15.6
	Actual RT:	15.7
	Area Counts:	4.70e+007
	Manual Modification	Yes
	Amount:	498. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	4-Amino-26-dinitrotoluene (197.0/167.0 amu)
	Expected RT:	13.1
	Actual RT:	13.2
	Area Counts:	7.63e+007
	Manual Modification	No
	Amount:	511. (ng/mL)
	% Accuracy:	N/A

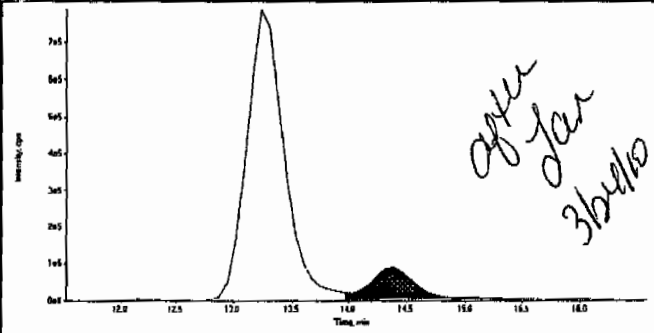


GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

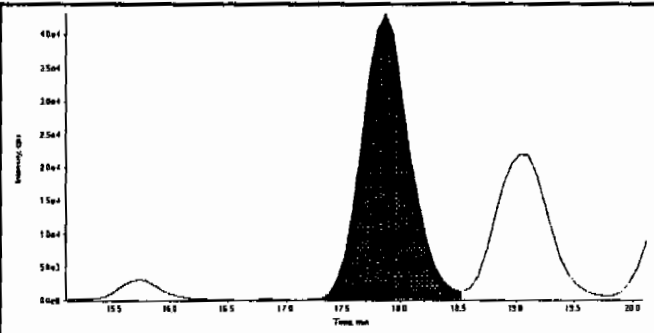
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown

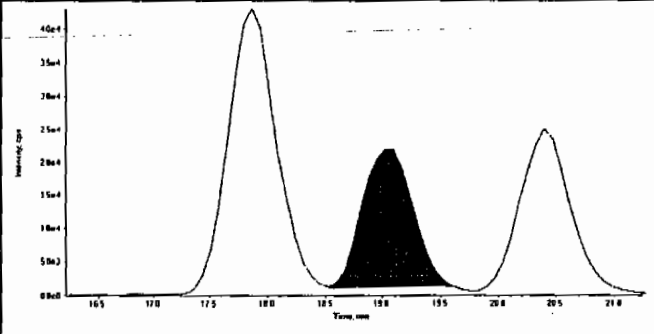
  

	Compound Name:	2-Amino-4,6-dinitrotoluene (197.0/180.0 amu)
	Expected RT:	14.0
	Actual RT:	14.4
	Area Counts:	2.40e+006
	Manual Modification	Yes
	Amount:	495. (ng/mL)
	% Accuracy:	N/A

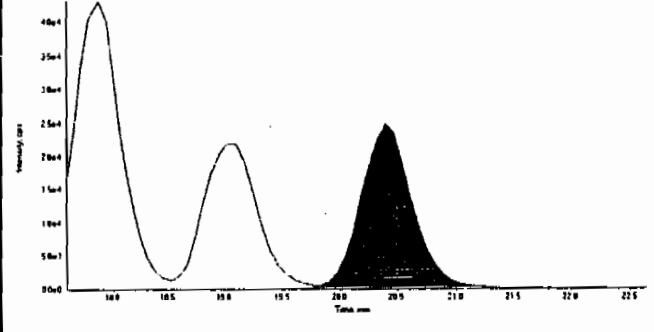
  

	Compound Name:	2-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	17.6
	Actual RT:	17.9
	Area Counts:	1.25e+006
	Manual Modification	No
	Amount:	459. (ng/mL)
	% Accuracy:	N/A

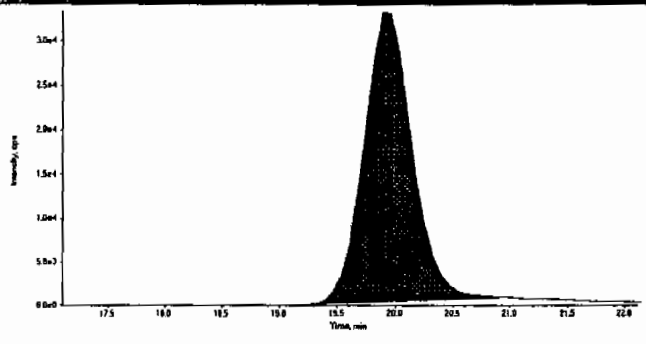
	Compound Name:	4-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	18.7
	Actual RT:	19.0
	Area Counts:	6.38e+005
	Manual Modification	No
	Amount:	427. (ng/mL)
	% Accuracy:	N/A

	Compound Name:	3-Nitrotoluene (137.0/46.0 amu)
	Expected RT:	20.1
	Actual RT:	20.4
	Area Counts:	7.61e+005
	Manual Modification	No
	Amount:	458. (ng/mL)
	% Accuracy:	N/A

GEL Laboratories, LLC  
GEL SOP GL-OA-E-056, Method 8321A-Modified

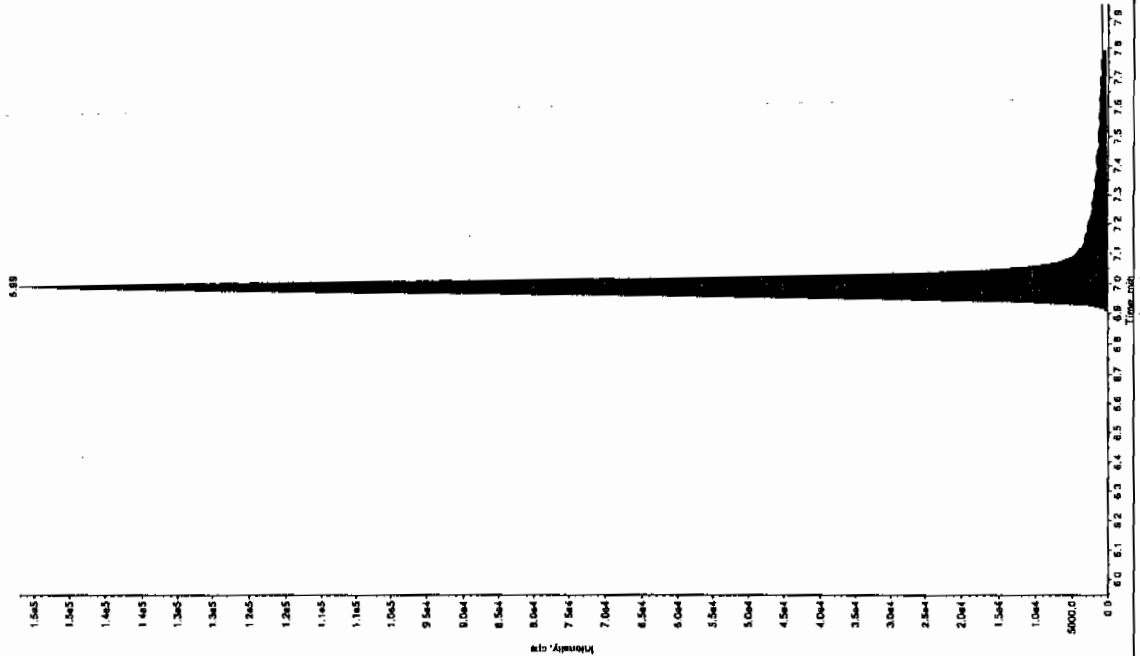
Printed: 23/03/2010 4:08:00 PM  
LCMSMS#3

Data File	EXP0312093.wiff	Acquisition Date	3/14/2010 12:28:46 AM
Sample Name	1202035681	Acquisition Method	8321_pntx.dam
Batch Dilution Analyst	950081 2 LER	Result Table	031210.rdb
Procedure Code	LCX8321_S	Sample Type	Unknown
		Compound Name:	PETN (361.1/62.0 amu)
		Expected RT:	19.6
		Actual RT:	19.9
		Area Counts:	9.69e+005
		Manual Modification	No
		Amount:	532. (ng/mL)
		% Accuracy:	N/A

for 3/13/10

Sample Name: "1202035681" Sample ID: "95008121" File: "EX503010093.wif"  
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 531. ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 9:11:07 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: 6.94 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 6.94 min  
 Area: 354068 counts  
 Height: 152173 cps  
 Start Time: 6.87 min  
 End Time: 7.13 min

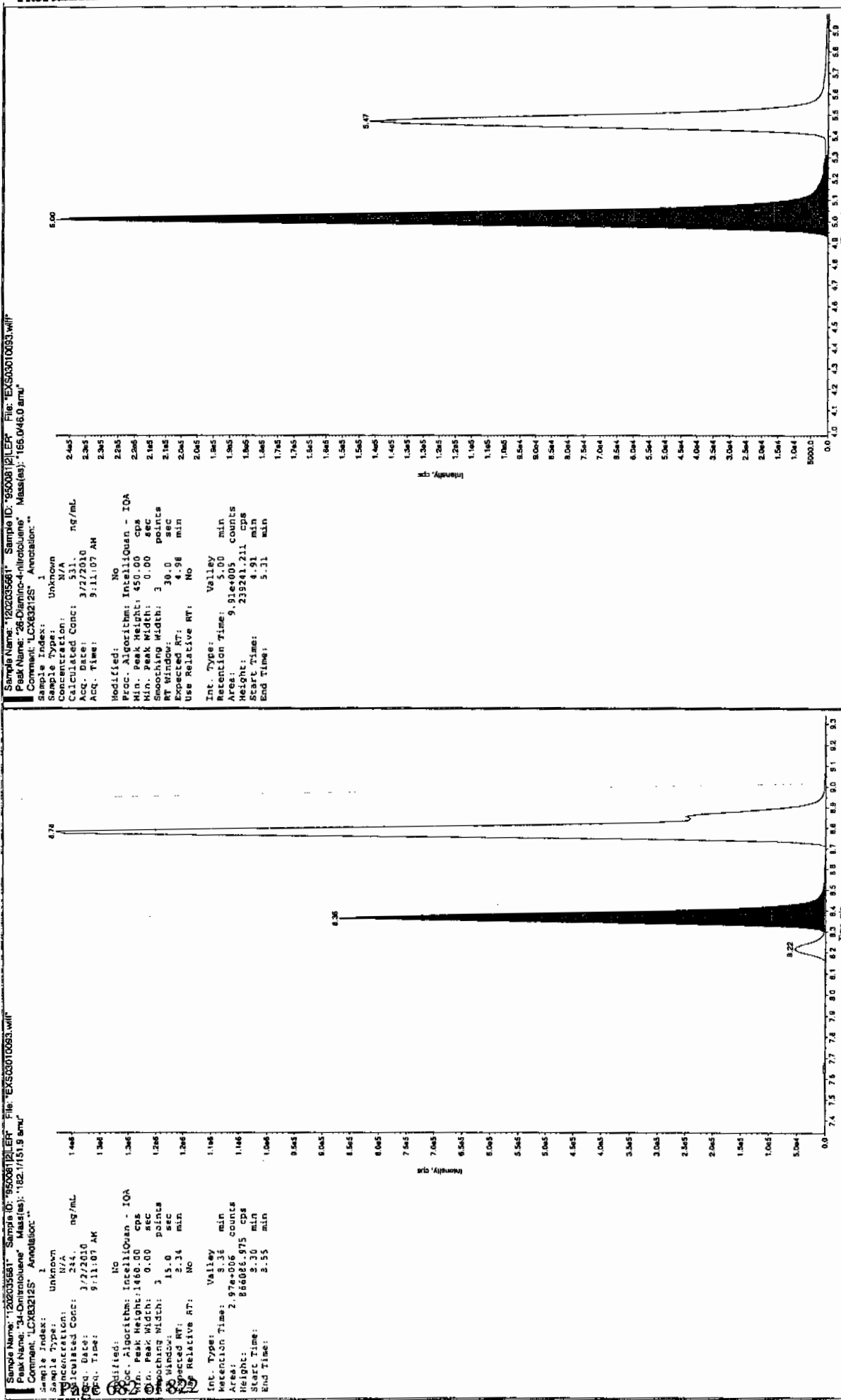


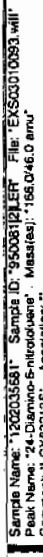
Sample Name: "1202035681" Sample ID: "95008121" File: "EX503010093.wif"  
 Peak Name: "3C-Dinitroresorcinol" Mass(es): "182.0/166.0 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 500. ng/mL  
 Acq. Date: 3/2/2010  
 Acq. Time: 9:11:07 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: 8.19 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.19 min  
 Area: 3924006 counts  
 Height: 1043064 cps  
 Start Time: 8.15 min  
 End Time: 8.33 min



Amc 03/04/10







# GC SEMIVOLATILE PCB ANALYSIS

**PCB Case Narrative  
Los Alamos National Laboratory (LANL)  
SDG 10-1564**

**Method/Analysis Information**

**Procedure:** Analysis of Polychlorinated Biphenyls by ECD  
**Analytical Method:** SW846 8082  
**Prep Method:** SW846 3550B  
**Analytical Batch Number:** 951946  
**Prep Batch Number:** 951941

**Sample Analysis**

The following samples were analyzed using the analytical protocol as established in SW846 8082:

<b>Sample ID</b>	<b>Client ID</b>
246318001	RE15-10-7332
246318002	RE15-10-7333
246318003	RE15-10-7342
1202040223	Method Blank (MB)
1202040224	Laboratory Control Sample (LCS)
1202040225	246575003(WST15-10-11621) Matrix Spike (MS)
1202040226	246575003(WST15-10-11621) 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 for the Aroclors.

Two of the five quantified peaks did not meet the acceptance criteria in the Aroclor-1260 standards analyzed for this SDG; however, the average concentration of the five peaks met the acceptance criteria.

Surrogate recovery did not meet the acceptance criteria in one of the standards analyzed for this SDG; however, this had no adverse effects on the data as the surrogate recovery was well within the acceptance range in the samples in this SDG.

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

The MB analyzed with this SDG met the acceptance criteria.

**Surrogate Recoveries**

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

**Laboratory Control Sample (LCS) Recovery**

The LCS spike recoveries met the acceptance limits.

**QC Sample Designation**

A LANL sample of similar matrix associated with another SDG (#10-1675) 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 were within the established acceptance limits.

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

The MSD recoveries were within the established acceptance limits.

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

The RPD between the MS and MSD met the acceptance limits.

**Technical Information****Holding Time Specifications**

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

**Preparation/Analytical Method Verification**

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina.

**Sample Dilutions**

The samples in this SDG did not require dilutions.

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

Re-extractions or re-analyses were not required in this SDG.

**Miscellaneous Information****Electronic Package Comment**

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

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

#### **Data Exception (DER) Documentation**

Data exception report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

#### **Manual Integration**

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

#### **Additional Comments**

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VIIs will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

#### **System Configuration**

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD8A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide I)
ECD8A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticide II)

#### **Certification Statement**

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

**Review Validation**

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

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

Reviewer: Jinni Cao

Date: 3/4/10

## Roadmap for LANL 10-1564 PCB

This roadmap was analyzed by jen01212 on 02-15-2010, 12:08.

This roadmap was reviewed by jim01140 on 02-18-2010, 11:10.

This roadmap was reviewed by rob01090 on 02-18-2010, 20:18.

This roadmap was packaged by yml on 03-04-2010, 12:15.

This roadmap was validated by jim01140 on 03-04-2010, 14:18.

Front Sample Column

exclude	manual	datafile	smpid	samplertype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/023f2301.d	246318001	sample	12-FEB-2010	11:21	10-1564.sub	RE15-10-7332	1.00000	951946	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/024f2401.d	246318002	sample	12-FEB-2010	11:34	10-1564.sub	RE15-10-7333	1.00000	951946	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/025f2501.d	246318003	sample	12-FEB-2010	11:46	10-1564.sub	RE15-10-7342	1.00000	951946	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smpid	samplertype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/023b2301.d	246318001	sample	12-FEB-2010	11:21	10-1564.sub	RE15-10-7332	1.00000	951946	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/024b2401.d	246318002	sample	12-FEB-2010	11:34	10-1564.sub	RE15-10-7333	1.00000	951946	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/025b2501.d	246318003	sample	12-FEB-2010	11:46	10-1564.sub	RE15-10-7342	1.00000	951946	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smpid	samplertype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/012f1201-2.d	1202040223	mb	12-FEB-2010	09:05	10-1564.sub	PBLK01	1.00000	951946	<input type="text"/>
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/013f1301-2.d	1202040224	lcs	12-FEB-2010	09:18	10-1564.sub	PBLK01LCS	1.00000	951946	<input type="text"/>

Back QC Sample Column

exclude	manual	datafile	smpid	samplertype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/012b1201-2.d	1202040223	mb	12-FEB-2010	09:05	10-1564.sub	PBLK01	1.00000	951946	<input type="text"/>
<input type="checkbox"/>	N	/chem/ecd8a.i/021210.b/013b1301-2.d	1202040224	lcs	12-FEB-2010	09:18	10-1564.sub	PBLK01LCS	1.00000	951946	<input type="text"/>

# SAMPLE DATA SUMMARY

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

**SDG Number:** 10-1564  
**Lab Sample ID:** 246318001

**Client ID:** RE15-10-7332  
**Batch ID:** 951946  
**Run Date:** 02/12/2010 11:21  
**Prep Date:** 02/11/2010 22:01  
**Data File:** 023f2301.d  
023b2301.d

**Date Collected:** 02/01/2010 12:00  
**Date Received:** 02/05/2010 09:00  
**Client:** LANL010  
**Method:** SW846 8082  
**Inst:** ECD8A.I  
**Analyst:** JAOC  
**Aliquot:** 30.03 g  
**Column:** 1 CLP1  
2 CLP2

**Matrix:** R  
**%Moisture:** 6.5  
**Project:** LANL01004  
**SOP Ref:** GL-OA-E-040  
**Dilution:** 1  
**Inj. Vol:** 1 uL  
**Final Volume:** 1 mL  
**Level:** LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.56	ug/kg	1.19	3.56	1
11104-28-2	Aroclor-1221	U	3.56	ug/kg	1.19	3.56	1
11141-16-5	Aroclor-1232	U	3.56	ug/kg	1.19	3.56	1
53469-21-9	Aroclor-1242	U	3.56	ug/kg	1.19	3.56	1
12672-29-6	Aroclor-1248	U	3.56	ug/kg	1.19	3.56	1
11097-69-1	Aroclor-1254	U	3.56	ug/kg	1.19	3.56	1
11096-82-5	Aroclor-1260	U	3.56	ug/kg	1.19	3.56	1



## PCB

Page 1 of 1

Certificate of Analysis  
Sample SummarySDG Number: 10-1564  
Lab Sample ID: 246318002Date Collected: 02/01/2010 12:00  
Date Received: 02/05/2010 09:00  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.06 g  
Column: 1 CLP1  
2 CLP2Matrix: R  
%Moisture: 5.7  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

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

SDG Number: 10-1564  
Lab Sample ID: 246318003

Date Collected: 02/01/2010 12:00  
Date Received: 02/05/2010 09:00  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.07 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
% Moisture: 5.6  
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	3.52	ug/kg	1.17	3.52	1
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	1
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	1
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	1
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	1
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	1
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	1

# QUALITY CONTROL SUMMARY

PCB  
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1564

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 #
1202040223	MB for batch 951941	64	64	67	70
1202040224	LCS for batch 951941	60	61	64	66
246318001	RE15-10-7332	67	67	69	74
246318002	RE15-10-7333	67	68	67	71
246318003	RE15-10-7342	65	64	68	73

**Surrogate****Acceptance Limits**

4CMX = 4cmx

(32%-120%)

DCB = Decachlorobiphenyl

(30%-116%)

\* Recovery outside Acceptance Limits

# Column to be used to flag recovery values

D Sample Diluted

## PCB

Page 1 of 1

Quality Control Summary  
Spike Recovery Report

SDG Number: 10-1564

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 951941

Matrix: SOIL

Lab Sample ID:1202040224

Instrument: ECD8A.I

Analysis Date: 02/12/2010 09:18

Dilution: 1

Analyst: JAOC

Prep Batch II 951941

Inj. Vol: 1 uL

Batch ID: 951946

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	18.6	56	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	22.7	68	45-118

## PCB

Page 1 of 2

Quality Control Summary  
Spike Recovery Report

SDG Number: 10-1675

Client ID: WST15-10-11621MS

Lab Sample ID:1202040225

Instrument: ECD8A.I

Analyst: JAOC

Inj. Vol: 1 uL

Sample Type: Matrix Spike

Matrix: R

%Moisture: 6.6

Analysis Date: 02/12/2010 14:02

Dilution: 1

Prep Batch ID: 951941

Batch ID: 951946

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	35.6	0.00 U	19.0	53	23-119
11096-82-5	MS Aroclor-1260	35.6	0.00 U	23.1	65	28-124

PCB

Page 2 of 2

Quality Control Summary  
Spike Recovery Report

SDG Number: 10-1675

Client ID: WST15-10-11621MSD

Lab Sample ID:1202040226

Instrument: ECD8A.I

Analyst: JAOC

Inj. Vol: 1 uL

Sample Type: Matrix Spike Duplicate

Matrix: R

%Moisture: 6.6

Analysis Date: 02/12/2010 14:14

Dilution: 1

Prep Batch ID: 951941

Batch ID: 951946

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	MSD Aroclor-1016	35.6	0.00 U	19.4	54	23-119	2	0-28
11096-82-5	MSD Aroclor-1260	35.6	0.00 U	23.0	65	28-124	0	0-30

## Method Blank Summary

Page 1 of 1

SDG Number:	10-1564	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 951941	Instrument ID:	ECD8A.I_2	Data File:	012b1201-1.d
Lab Sample ID:	1202040223		ECD8A.I_1		012f1201-1.d
Column:	CLP2	Prep Date:	02/11/2010 22:01	Analyzed:	02/12/10 09:05
	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 951941	1202040224	013f1301-1.d 013b1301-1.d	02/12/10	0918
02 RE15-10-7332	246318001	023f2301.d 023b2301.d	02/12/10	1121
03 RE15-10-7333	246318002	024f2401.d 024b2401.d	02/12/10	1134
04 RE15-10-7342	246318003	025f2501.d 025b2501.d	02/12/10	1146



# SAMPLE DATA

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

SDG Number: 10-1564

Lab Sample ID: 246318001

Client ID: RE15-10-7332

Batch ID: 951946

Run Date: 02/12/2010 11:21

Prep Date: 02/11/2010 22:01

Data File: 023f2301.d

023b2301.d

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Client: LANL010

Method: SW846 8082

Inst: ECD8A.I

Analyst: JAOC

Aliquot: 30.03 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 6.5

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.56	ug/kg	1.19	3.56	1
11104-28-2	Aroclor-1221	U	3.56	ug/kg	1.19	3.56	1
11141-16-5	Aroclor-1232	U	3.56	ug/kg	1.19	3.56	1
53469-21-9	Aroclor-1242	U	3.56	ug/kg	1.19	3.56	1
12672-29-6	Aroclor-1248	U	3.56	ug/kg	1.19	3.56	1
11097-69-1	Aroclor-1254	U	3.56	ug/kg	1.19	3.56	1
11096-82-5	Aroclor-1260	U	3.56	ug/kg	1.19	3.56	1

Data File: /chem/ecd8a.i/021210.b/023f2301.d  
Report Date: 12-Feb-2010 13:19

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/023f2301.d  
Lab Smp Id: 246318001 Client Smp ID: RE15-10-7332  
Inj Date : 12-FEB-2010 11:21  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |246318001|1|  
Misc Info : |ECD82P\_1S|951946|SVA|LANL|SOIL|RE15-10-7332|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 23  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.sub  
Target Version: 3.50 Sample Matrix: Soil

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

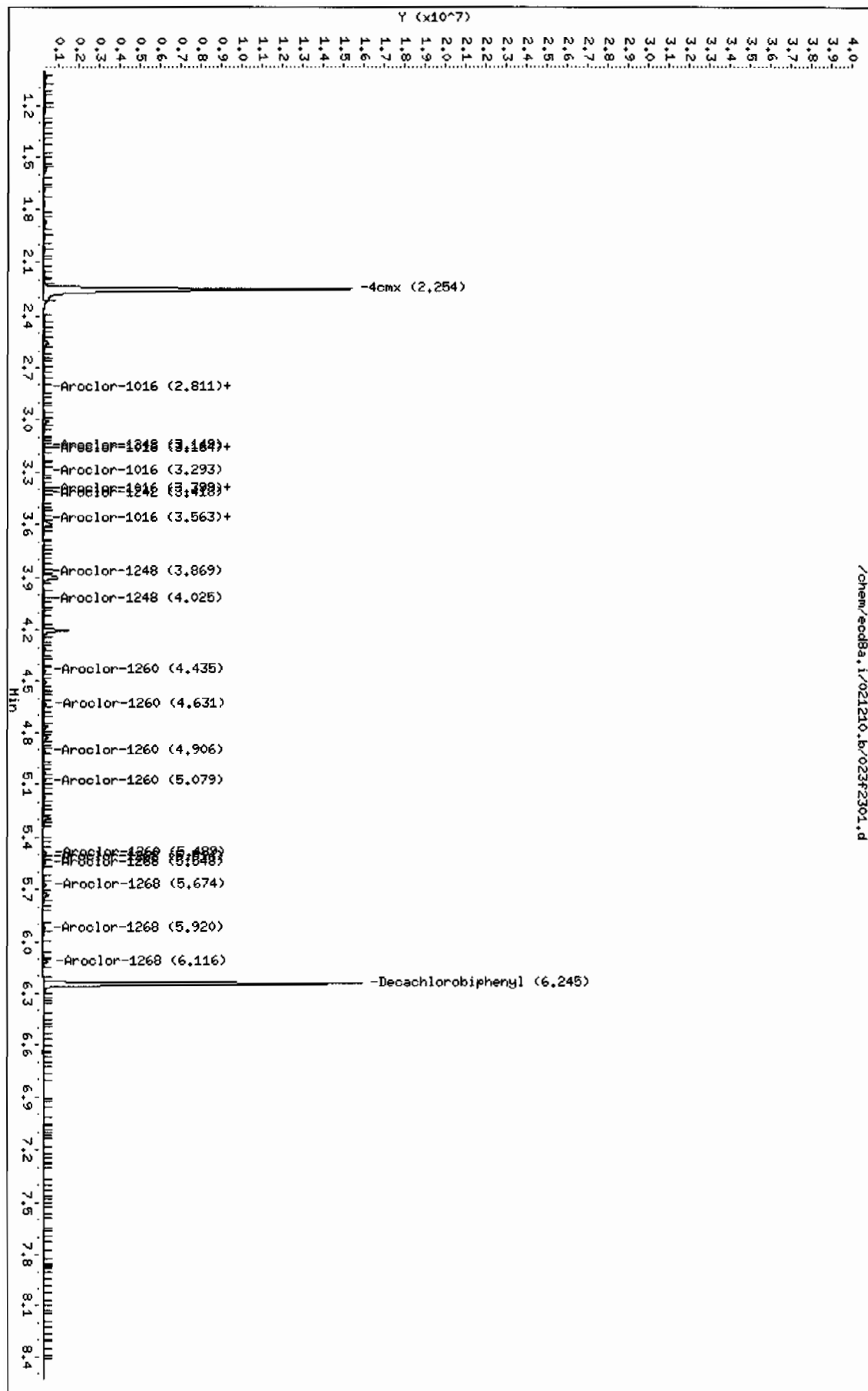
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	6.45570	% Moisture

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		
2.254	2.252	0.002	17514120	133.282	4.7 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.245	6.245	0.000	13836984	138.396	4.9 80.00- 120.00	100.00	
-----							

Data File: /chem/ecod8a.i/021210.b/023f2301.d  
 Date: 12-FEB-2010 11:21  
 Client ID: RE15-10-7332  
 Sample Info: 1246318001(11)  
 Volume Injected (uL): 1.0  
 Column phase: CLP1

Instrument: ecod8a.i  
 Operator: JROC  
 Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/023b2301.d  
Report Date: 12-Feb-2010 13:09

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/021210.b/023b2301.d  
Lab Smp Id: 246318001 Client Smp ID: RE15-10-7332  
Inj Date : 12-FEB-2010 11:21  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |246318001|1|  
Misc Info : |ECD82P\_1S|951946|SVA|LANL|SOIL|RE15-10-7332|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 23  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.sub  
Target Version: 3.50 Sample Matrix: Soil

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

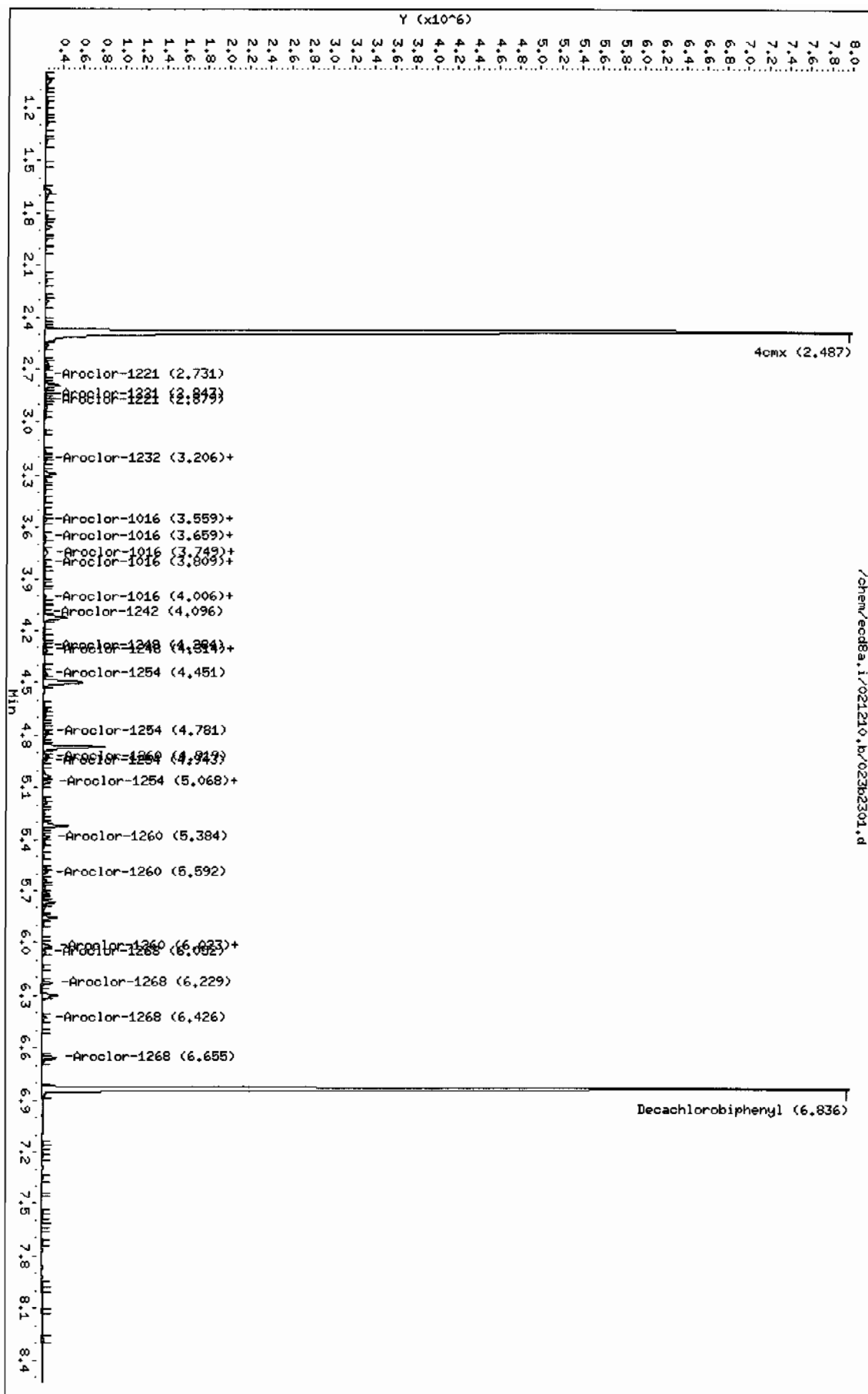
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	6.45570	% Moisture

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			
2.487	2.486	0.001	11595591	133.523	4.8 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.836	6.836	0.000	9566900	147.538	5.2 80.00- 120.00	100.00	
-----							

Data File: /chem/ecdb8a.i/021210.b/02362301.d  
 Date : 12-FEB-2010 11:21  
 Client ID: RE15-10-7332  
 Sample Info: 124631800111  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: ecdb8a.i  
 Operator: JHOC  
 Column diameter: 0.25



## PCB

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Certificate of Analysis  
Sample Summary

SDG Number: 10-1564

Lab Sample ID: 246318002

Client ID: RE15-10-7333

Batch ID: 951946

Run Date: 02/12/2010 11:34

Prep Date: 02/11/2010 22:01

Data File: 024f2401.d

024b2401.d

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Client: LANL010

Method: SW846 8082

Inst: ECD8A.1

Analyst: JAOC

Aliquot: 30.06 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 5.7

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

Data File: /chem/ecd8a.i/021210.b/024f2401.d  
Report Date: 12-Feb-2010 13:20

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/024f2401.d  
Lab Smp Id: 246318002 Client Smp ID: RE15-10-7333  
Inj Date : 12-FEB-2010 11:34  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |246318002|1|  
Misc Info : |ECD82P\_1S|951946|SVA|LANL|SOIL|RE15-10-7333|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 24  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.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	30.06000	Weight of sample extracted (g)
M	5.73750	% Moisture

Cpnd Variable Local Compound Variable

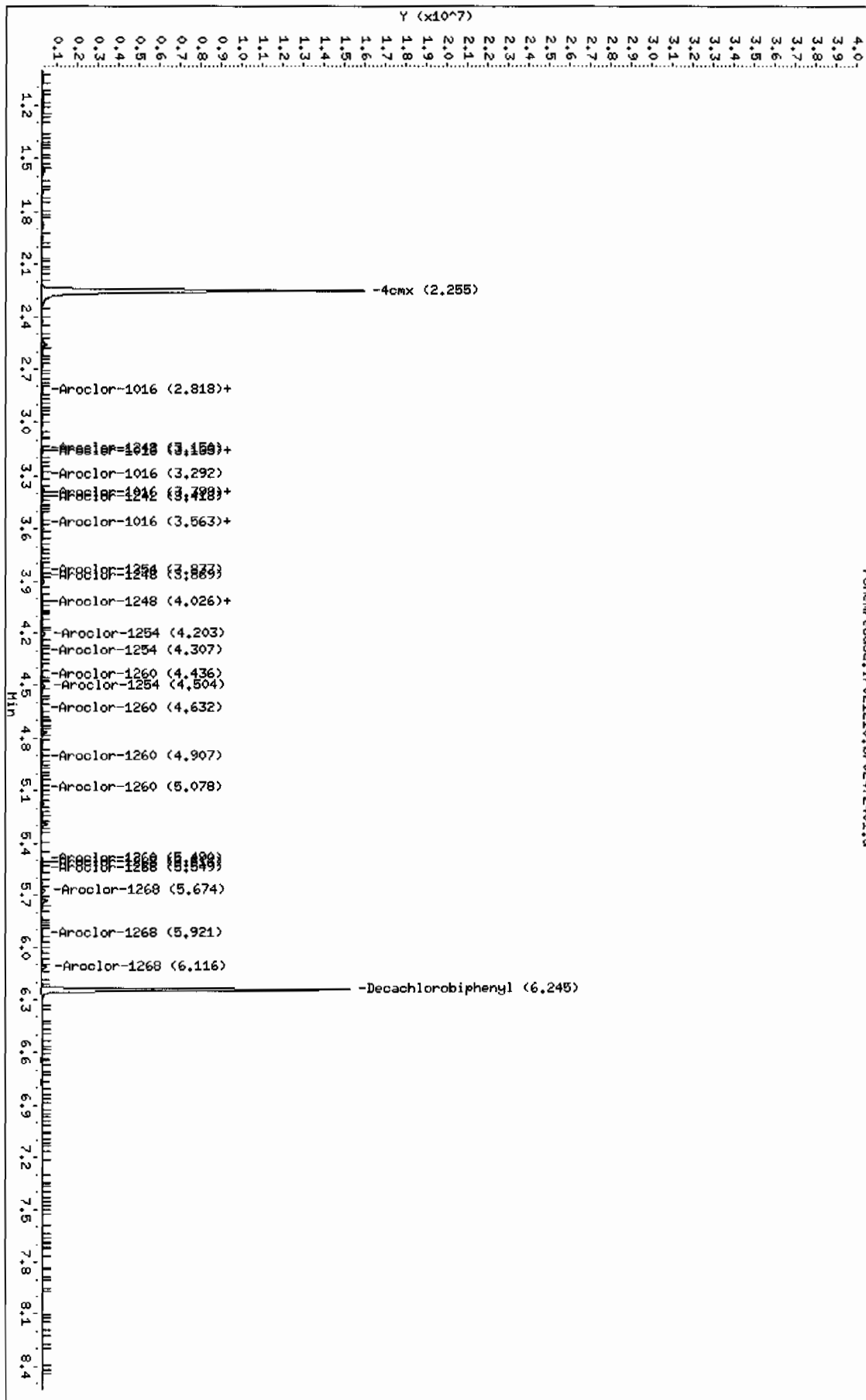
CONCENTRATIONS							
				ON-COL	FINAL		
RT	EXP RT	DLT RT	RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
-----	-----	-----	-----	-----	-----	-----	-----
\$ 11 4cmx				CAS #: 877-09-8			
2.255	2.252	0.003		17704943	134.735	4.8 80.00- 120.00	100.00
-----							
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.245	6.245	0.000		13469385	134.719	4.8 80.00- 120.00	100.00
-----							



Data File: /chem/eod8a.i/021210.b/024f2401.d  
Date: 12-FEB-2010 11:34  
Client ID: RE15-10-7333  
Sample Info: 124631800211  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: eod8a.i  
Operator: JMO  
Column diameter: 0.25

/chem/eod8a.i/021210.b/024f2401.d



Data File: /chem/ecd8a.i/021210.b/024b2401.d  
Report Date: 12-Feb-2010 13:09

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/021210.b/024b2401.d  
Lab Smp Id: 246318002 Client Smp ID: RE15-10-7333  
Inj Date : 12-FEB-2010 11:34  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |246318002|1|  
Misc Info : |ECD82P\_1S|951946|SVA|LANL|SOIL|RE15-10-7333|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 24  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.sub  
Target Version: 3.50 Sample Matrix: Soil

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

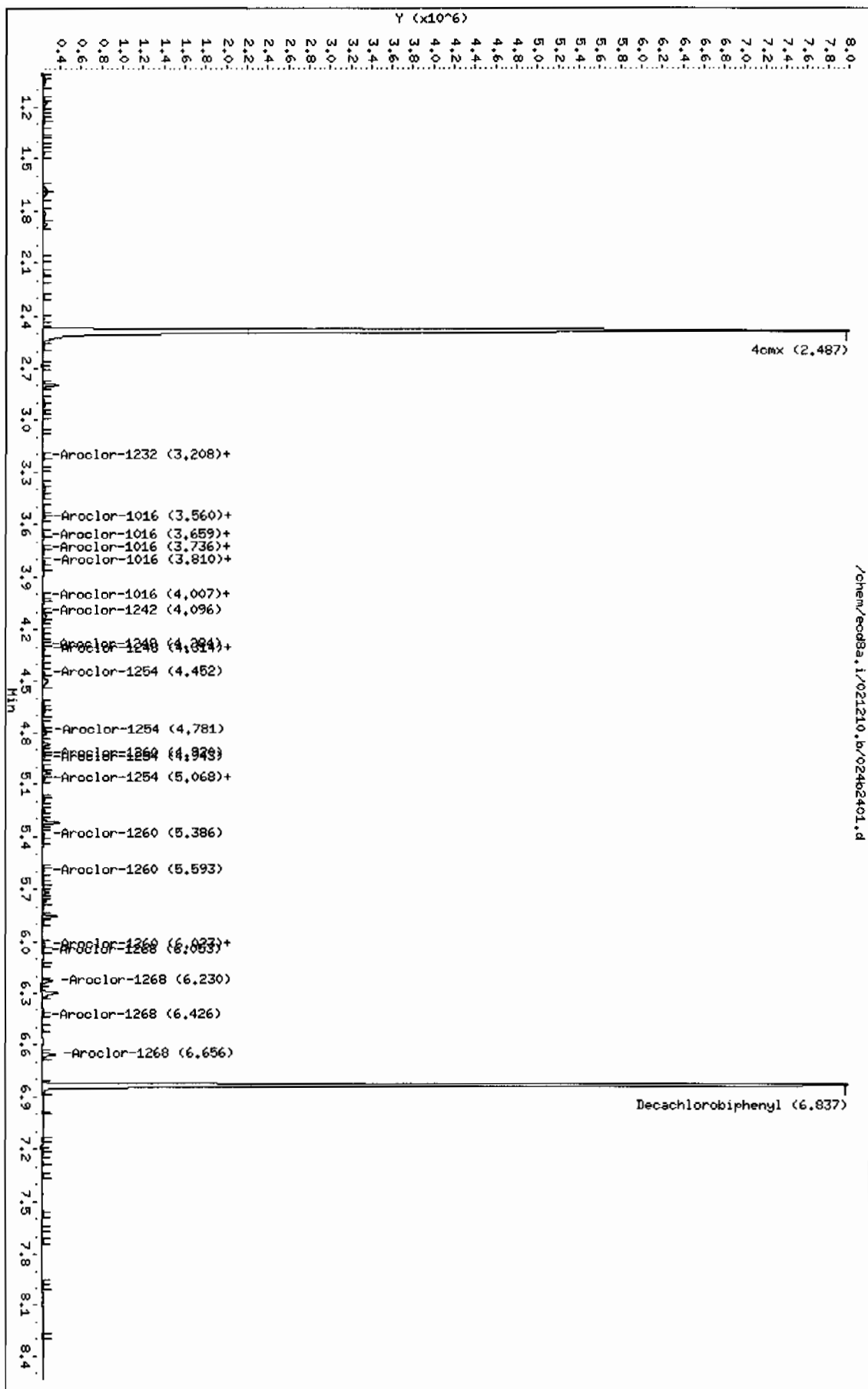
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.06000	Weight of sample extracted (g)
M	5.73750	% Moisture

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							
2.487	2.486	0.001	11744578	135.239	4.8 80.00- 120.00	100.00	
CAS #: 2051-24-3							
\$ 12 Decachlorobiphenyl							
6.837	6.836	0.001	9262856	142.849	5.0 80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/021210.b/024b2401.d  
 Date: 12-FEB-2010 11:34  
 Client ID: RE15-10-7333  
 Sample Info: 124631800211  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: ecd8a.i  
 Operator: JROC  
 Column diameter: 0.25



## PCB

Page 1 of 1

Certificate of Analysis  
Sample Summary

SDG Number: 10-1564

Lab Sample ID: 246318003

Client ID: RE15-10-7342

Batch ID: 951946

Run Date: 02/12/2010 11:46

Prep Date: 02/11/2010 22:01

Data File: 025f2501.d

025b2501.d

Date Collected: 02/01/2010 12:00

Date Received: 02/05/2010 09:00

Client: LANL010

Method: SW846 8082

Inst: ECD8A.1

Analyst: JAOC

Aliquot: 30.07 g

Column: 1 CLP1

2 CLP2

Matrix: R

% Moisture: 5.6

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	3.52	ug/kg	1.17	3.52	1
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	1
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	1
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	1
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	1
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	1
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	1

Data File: /chem/ecd8a.i/021210.b/025f2501.d  
Report Date: 12-Feb-2010 13:20

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/025f2501.d  
Lab Smp Id: 246318003 Client Smp ID: RE15-10-7342  
Inj Date : 12-FEB-2010 11:46  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |246318003|1|  
Misc Info : |ECD82P\_1S|951946|SVA|LANL|SOIL|RE15-10-7342|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 25  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.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	5.64690	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

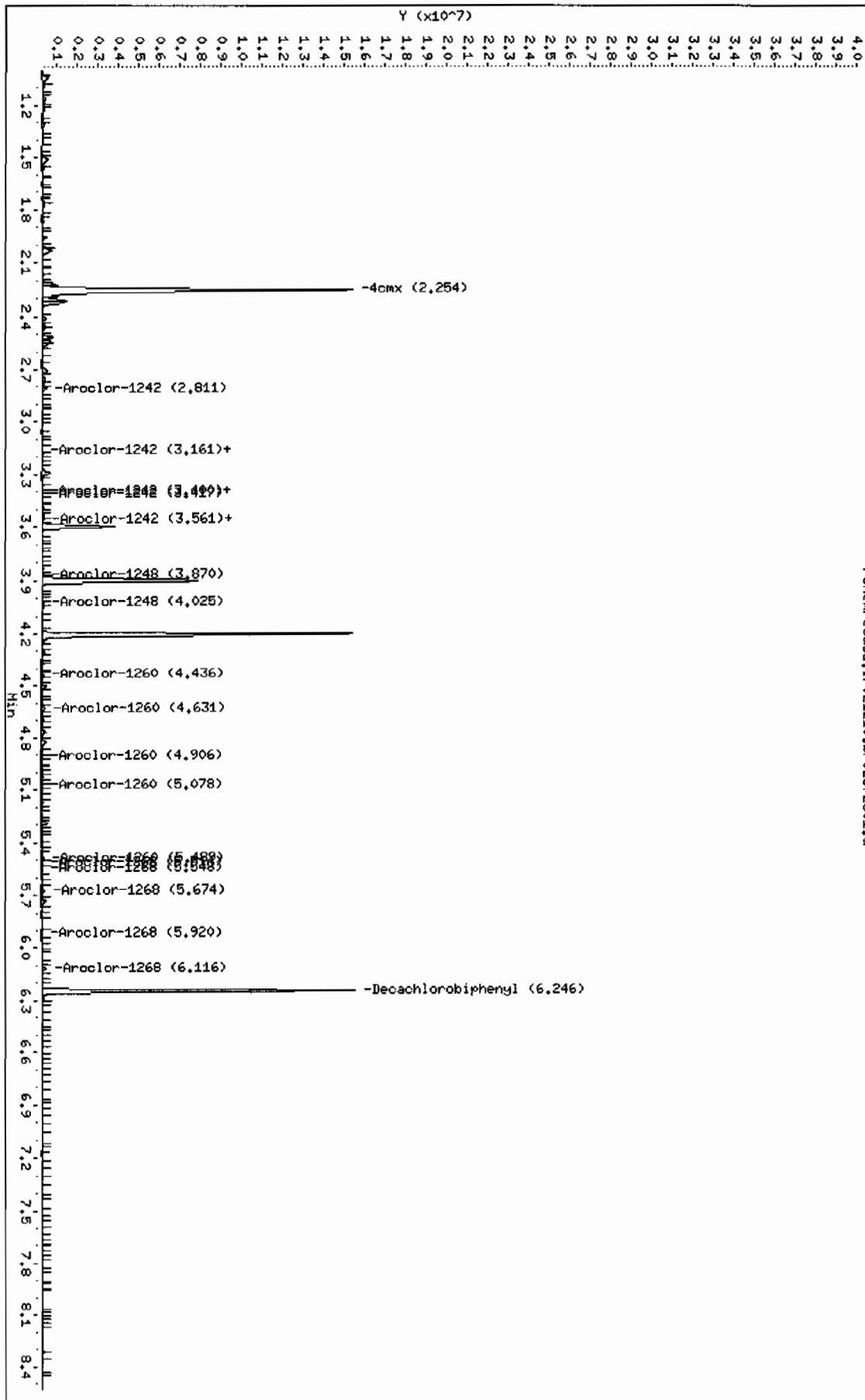
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx						CAS #: 877-09-8	
2.254	2.252	0.002	16975984 129.187	4.6	80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
6.246	6.245	0.001	13622521 136.251	4.8	80.00- 120.00	100.00	
-----							

Data File: /chem/eod8a.i/021210.b/025f2501.d  
Date: 12-FEB-2010 11:46  
Client ID: RE15-10-7342  
Sample Info: 124631800311  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: eod8a.i  
Operator: JADC  
Column diameter: 0.25

/chem/eod8a.i/021210.b/025f2501.d

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/025b2501.d

Lab Smp Id: 246318003

Client Smp ID: RE15-10-7342

Inj Date : 12-FEB-2010 11:46

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |246318003|1|

Misc Info : |ECD82P\_1S|951946|SVA|LANL|SOIL|RE15-10-7342|1|

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.d

Als bottle: 25

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1564.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	5.64690	% Moisture

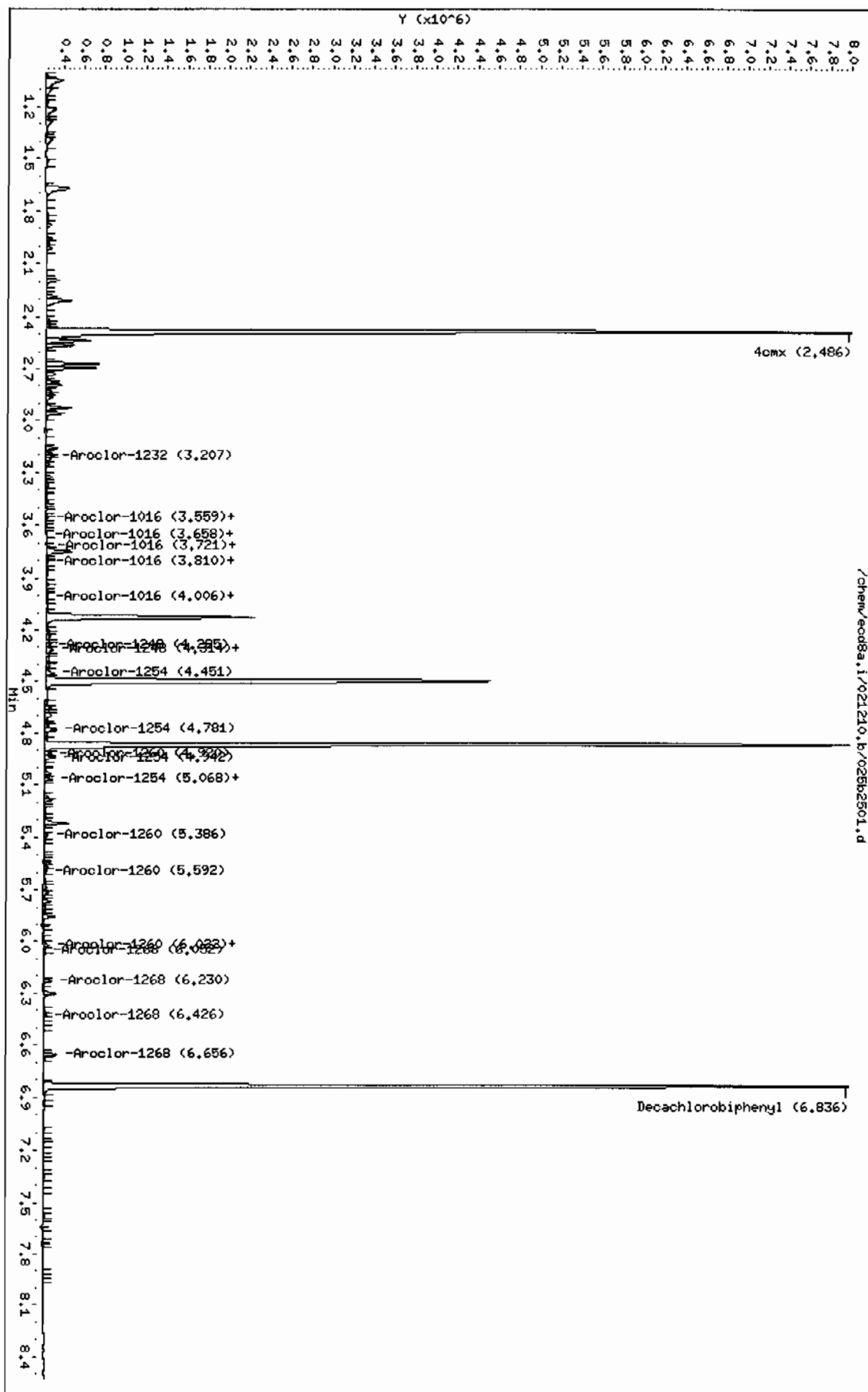
Cpnd Variable

Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
11.4	2.486	0.000	11086806	127.664	4.5 80.00- 120.00	100.00
-----						
\$ 12	6.836	0.000	9476478	146.143	5.2 80.00- 120.00	100.00
-----						

Data File: /chem/ecdb8a.i/021210.b/02062501.d  
 Date: 12-FEB-2010 11:46  
 Client ID: RE15-10-7342  
 Sample Info: 124631800311  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: ecdb8a.i  
 Operator: JHOC  
 Column diameter: 0.25





# STANDARDS DATA

Report Date: 15-Feb-2010 11:17

### Calibration History

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Start Cal Date: 03-FEB-2010 10:24  
End Cal Date : 03-FEB-2010 17:25

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
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
03-FEB-2010 10:24	AR1660	/chem/ecd8a.i/020310a.b/002f0201.d
Cal Level: 2 , Cal Amount: 250.00000		
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
03-FEB-2010 10:37	AR1660	/chem/ecd8a.i/020310a.b/003f0301.d
Cal Level: 3 , Cal Amount: 500.00000		
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
03-FEB-2010 10:49	AR1660	/chem/ecd8a.i/020310a.b/004f0401.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
03-FEB-2010 15:34	AR1221	/chem/ecd8a.i/020310a.b/027f2701.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
03-FEB-2010 11:01	AR1660	/chem/ecd8a.i/020310a.b/005f0501.d
Cal Level: 5 , Cal Amount: 4000.00000		
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
03-FEB-2010 11:14	AR1660	/chem/ecd8a.i/020310a.b/006f0601.d

Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 15:04	AR1660	/chem/ecd8a.i/021210.b/041f4101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 13:25	AR1660	/chem/ecd8a.i/021210.b/033f3301.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 10:56	AR1660	/chem/ecd8a.i/021210.b/021f2101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:28	AR1268	/chem/ecd8a.i/021210.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:16	AR1262	/chem/ecd8a.i/021210.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:03	AR1221	/chem/ecd8a.i/021210.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:51	AR1232	/chem/ecd8a.i/021210.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:38	AR1248	/chem/ecd8a.i/021210.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:26	AR1242	/chem/ecd8a.i/021210.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:14	AR1254	/chem/ecd8a.i/021210.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:02	AR1660	/chem/ecd8a.i/021210.b/002f0201.d

Report Date: 15-Feb-2010 11:17

### Calibration History

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Start Cal Date: 03-FEB-2010 10:24  
End Cal Date : 03-FEB-2010 17:25

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
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
03-FEB-2010 10:24	AR1660	/chem/ecd8a.i/020310a.b/002b0201.d
Cal Level: 2 , Cal Amount: 250.00000		
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
03-FEB-2010 10:37	AR1660	/chem/ecd8a.i/020310a.b/003b0301.d
Cal Level: 3 , Cal Amount: 500.00000		
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
03-FEB-2010 10:49	AR1660	/chem/ecd8a.i/020310a.b/004b0401.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
03-FEB-2010 15:34	AR1221	/chem/ecd8a.i/020310a.b/027b2701.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
03-FEB-2010 11:01	AR1660	/chem/ecd8a.i/020310a.b/005b0501.d
Cal Level: 5 , Cal Amount: 4000.00000		
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
03-FEB-2010 11:14	AR1660	/chem/ecd8a.i/020310a.b/006b0601.d

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 15:04	AR1660	/chem/ecd8a.i/021210.b/041b4101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 13:25	AR1660	/chem/ecd8a.i/021210.b/033b3301.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 10:56	AR1660	/chem/ecd8a.i/021210.b/021b2101.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:28	AR1268	/chem/ecd8a.i/021210.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:16	AR1262	/chem/ecd8a.i/021210.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 08:03	AR1221	/chem/ecd8a.i/021210.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:51	AR1232	/chem/ecd8a.i/021210.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:38	AR1248	/chem/ecd8a.i/021210.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:26	AR1242	/chem/ecd8a.i/021210.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:14	AR1254	/chem/ecd8a.i/021210.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
12-FEB-2010 07:02	AR1660	/chem/ecd8a.i/021210.b/002b0201.d

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
 Quant Method : ESTD Target Version : 3.50  
 Last Update : 15-Feb-2010 06:50 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	2.811	2.781-2.841	4.665e+03
	3.163	3.133-3.193	5.770e+03
	3.306	3.276-3.336	2.454e+03
	3.399	3.369-3.429	2.198e+03
	3.561	3.531-3.591	3.142e+03
2 Aroclor-1221	1.855	1.825-1.885	1.100e+03
	2.394	2.364-2.424	1.460e+03
	2.541	2.511-2.571	3.385e+03
3 Aroclor-1232	2.541	2.511-2.571	2.601e+03
	2.812	2.782-2.842	2.261e+03
	3.308	3.278-3.338	1.243e+03
	3.562	3.532-3.592	1.479e+03
4 Aroclor-1242	3.624	3.594-3.654	9.227e+02
	2.812	2.782-2.842	3.974e+03
	3.164	3.134-3.194	4.796e+03
	3.400	3.369-3.430	1.805e+03
	3.417	3.387-3.447	1.889e+03
5 Aroclor-1248	3.562	3.532-3.592	2.645e+03
	3.148	3.118-3.178	2.990e+03
	3.399	3.369-3.429	3.823e+03
	3.562	3.532-3.592	5.000e+03
	3.867	3.837-3.897	5.990e+03
	4.027	3.997-4.057	4.826e+03

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.837	3.807-3.867	4.785e+03
	4.025	3.995-4.055	6.569e+03
	4.220	4.190-4.250	5.138e+03
	4.306	4.276-4.336	8.797e+03
	4.501	4.471-4.531	6.914e+03
7 Aroclor-1260	4.435	4.405-4.465	6.739e+03
	4.631	4.601-4.661	1.026e+04
	4.906	4.876-4.936	6.130e+03
	5.078	5.048-5.108	6.386e+03
	5.490	5.460-5.520	6.860e+03
8 Aroclor-1262	4.337	4.307-4.367	3.367e+03
	4.436	4.406-4.466	5.243e+03
	4.631	4.601-4.661	7.103e+03
	4.906	4.876-4.936	8.580e+03
	5.079	5.049-5.109	7.966e+03
9 Aroclor-1268	5.514	5.484-5.544	1.632e+04
	5.541	5.511-5.571	1.572e+04
	5.673	5.643-5.703	1.207e+04
	5.919	5.889-5.949	6.023e+03
	6.116	6.086-6.146	3.601e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.252	2.222-2.282	1.314e+05
\$ 12 Decachlorobiphenyl	6.245	6.215-6.275	9.998e+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/021210.b/ECD8-B-8082-020310a.m  
 Quant Method : ESTD Target Version : 3.50  
 Last Update : 15-Feb-2010 06:49 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	3.558	3.528-3.588	3.766e+03
	3.658	3.628-3.688	2.494e+03
	3.734	3.704-3.764	1.515e+03
	3.809	3.779-3.839	1.493e+03
	4.006	3.976-4.036	2.036e+03
2 Aroclor-1221	2.727	2.697-2.757	8.949e+02
	2.839	2.809-2.869	5.569e+02
	2.888	2.858-2.918	2.060e+03
3 Aroclor-1232	3.207	3.177-3.237	1.515e+03
	3.560	3.530-3.590	1.744e+03
	3.659	3.629-3.689	1.176e+03
	3.735	3.705-3.765	7.101e+02
4 Aroclor-1242	3.810	3.780-3.840	6.182e+02
	3.206	3.176-3.236	2.677e+03
	3.559	3.530-3.590	3.126e+03
	3.659	3.629-3.689	2.127e+03
	4.006	3.976-4.036	1.703e+03
5 Aroclor-1248	4.096	4.066-4.126	1.567e+03
	3.657	3.627-3.687	1.427e+03
	3.810	3.780-3.840	2.467e+03
	4.006	3.976-4.036	3.089e+03
	4.284	4.254-4.314	3.647e+03
	4.317	4.287-4.347	4.004e+03



## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	4.313	4.283-4.343	3.450e+03
	4.451	4.421-4.481	3.910e+03
	4.780	4.750-4.810	5.500e+03
	4.942	4.912-4.972	4.011e+03
	5.068	5.038-5.098	2.549e+03
7 Aroclor-1260	4.919	4.889-4.949	4.084e+03
	5.068	5.038-5.098	4.969e+03
	5.384	5.354-5.414	3.788e+03
	5.591	5.561-5.621	3.953e+03
	6.023	5.993-6.053	6.227e+03
8 Aroclor-1262	4.920	4.890-4.950	3.276e+03
	5.068	5.038-5.098	3.827e+03
	5.386	5.356-5.416	5.446e+03
	5.592	5.562-5.622	5.047e+03
	6.021	5.991-6.051	7.196e+03
9 Aroclor-1268	6.018	5.988-6.048	1.138e+04
	6.051	6.021-6.081	1.041e+04
	6.230	6.200-6.260	8.192e+03
	6.427	6.397-6.457	4.057e+03
	6.656	6.626-6.686	2.464e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.486	2.456-2.516	8.684e+04
\$ 12 Decachlorobiphenyl	6.836	6.806-6.866	6.484e+04
13 4,4'-DDT	5.323	5.303-5.343	1.460e+04
14 4,4'-DDD	5.102	5.082-5.122	1.001e+05
15 4,4'-DDE	4.691	4.671-4.711	8.898e+04

GEL Laboratories LLC  
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24  
 End Cal Date : 03-FEB-2010 17:25  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
 Cal Date : 15-Feb-2010 06:50 jen01212  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/ecd8a.i/020310a.b/028f2801.d  
 Level 2: /chem/ecd8a.i/020310a.b/029f2901.d  
 Level 3: /chem/ecd8a.i/020310a.b/030f3001.d  
 Level 4: /chem/ecd8a.i/020310a.b/036f3601.d  
 Level 5: /chem/ecd8a.i/020310a.b/032f3201.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)	5614	5138	4704	4321	3545	4665	16.943
(2)	6383	6264	5935	5475	4791	5770	11.275
(3)	2817	2639	2454	2319	2042	2454	12.124
(4)	2629	2406	2216	2019	1720	2198	15.914
(5)	3708	3411	3117	2938	2537	3142	14.248
2 Aroclor-1221(1)	++++	++++	++++	1100	++++	1100	0.000
(2)	++++	++++	++++	1460	++++	1460	0.000
(3)	++++	++++	++++	3385	++++	3385	0.000
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 : 03-FEB-2010 17:25  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
 Cal Date : 15-Feb-2010 06:50 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)	7706	7225	6868	6425	5470	6739	12.628
(2)	11735	10983	10481	9771	8329	10260	12.630
(3)	7075	6577	6171	5792	5035	6130	12.657
(4)	7317	6857	6397	6058	5301	6386	12.066
(5)	7655	7335	6855	6540	5914	6860	9.924
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
IM 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	141196	137660	133177	129355	115643	131406	7.521
\$ 12 Decachlorobiphenyl	111693	106508	99006	96244	86457	99981	9.718

## GEL Laboratories LLC

## INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24  
 End Cal Date : 03-FEB-2010 17:25  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
 Cal Date : 15-Feb-2010 06:49 jen01212  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/ecd8a.i/020310a.b/028b2801.d  
 Level 2: /chem/ecd8a.i/020310a.b/029b2901.d  
 Level 3: /chem/ecd8a.i/020310a.b/030b3001.d  
 Level 4: /chem/ecd8a.i/020310a.b/036b3601.d  
 Level 5: /chem/ecd8a.i/020310a.b/032b3201.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)	3955	3879	3768	3829	3401	3766	5.726
(2)	2683	2623	2522	2463	2181	2494	7.814
(3)	1588	1565	1522	1510	1392	1515	5.000
(4)	1644	1573	1498	1453	1297	1493	8.812
(5)	2161	2107	2068	2025	1817	2036	6.473
2 Aroclor-1221(1)	++++	++++	++++	895	++++	895	0.000
(2)	++++	++++	++++	557	++++	557	0.000
(3)	++++	++++	++++	2060	++++	2060	0.000
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 : 03-FEB-2010 17:25  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
 Cal Date : 15-Feb-2010 06:49 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)	4328	4278	4140	4064	3611	4084	6.976
(2)	5221	5198	5036	4963	4428	4969	6.467
(3)	3970	3947	3809	3790	3427	3788	5.744
(4)	4121	4108	3975	3957	3605	3953	5.268
(5)	6395	6455	6249	6250	5789	6227	4.190
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	86244	88409	88291	88885	82388	86843	3.097
12 Decachlorobiphenyl	68541	67257	64616	64263	59541	64844	5.342

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.: 10-1564  
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 0702  
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/03/10 02/03/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4548.503	0.01	-2.5	15.0
(2)	5769.588	5603.764	0.01	-2.9	15.0
(3)	2454.201	2323.075	0.01	-5.3	15.0
(4)	2198.179	2073.021	0.01	-5.7	15.0
(5)	3142.156	2985.422	0.01	-5.0	15.0
Aroclor-1260	6738.969	6360.304	0.01	-5.6	15.0
(2)	10259.796	9595.648	0.01	-6.5	15.0
(3)	6129.851	5825.535	0.01	-5.0	15.0
(4)	6385.867	6234.879	0.01	-2.4	15.0
(5)	6859.759	6996.429	0.01	2.0	15.0
4cmx	131406.10	139136.78	0.01	5.9	15.0
Decachlorobiphenyl	99981.358	97993.400	0.01	-2.0	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1564  
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 0702  
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/03/10 02/03/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3777.022	0.01	0.3	15.0
(2)	2494.427	2504.931	0.01	0.4	15.0
(3)	1515.492	1469.542	0.01	-3.0	15.0
(4)	1493.163	1424.438	0.01	-4.6	15.0
(5)	2035.618	1995.101	0.01	-2.0	15.0
Aroclor-1260	4084.417	4339.858	0.01	6.2	15.0
(2)	4968.902	5272.238	0.01	6.1	15.0
(3)	3788.418	4034.101	0.01	6.5	15.0
(4)	3953.106	4196.512	0.01	6.2	15.0
(5)	6227.437	6650.370	0.01	6.8	15.0
4cmx	86843.352	91859.720	0.01	5.8	15.0
Decachlorobiphenyl	64843.758	65029.570	0.01	0.3	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1564  
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1056  
 Lab File ID: 021F2101 Init. Calib. Date(s): 02/03/10 02/03/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4427.289	0.01	-5.1	15.0
(2)	5769.588	5231.669	0.01	-9.3	15.0
(3)	2454.201	2257.198	0.01	-8.0	15.0
(4)	2198.179	2027.637	0.01	-7.8	15.0
(5)	3142.156	2907.902	0.01	-7.4	15.0
Aroclor-1260	6738.969	6210.653	0.01	-7.8	15.0
(2)	10259.796	9429.792	0.01	-8.1	15.0
(3)	6129.851	5734.817	0.01	-6.4	15.0
(4)	6385.867	6164.329	0.01	-3.5	15.0
(5)	6859.759	6924.069	0.01	0.9	15.0
4cmx	131406.10	134284.87	0.01	2.2	15.0
Decachlorobiphenyl	99981.358	96393.950	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.: 10-1564  
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1056  
 Lab File ID: 021B2101 Init. Calib. Date(s): 02/03/10 02/03/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3579.581	0.01	-5.0	15.0
(2)	2494.427	2425.109	0.01	-2.8	15.0
(3)	1515.492	1415.842	0.01	-6.6	15.0
(4)	1493.163	1374.673	0.01	-7.9	15.0
(5)	2035.618	1929.912	0.01	-5.2	15.0
Aroclor-1260	4084.417	4222.628	0.01	3.4	15.0
(2)	4968.902	5138.981	0.01	3.4	15.0
(3)	3788.418	3947.606	0.01	4.2	15.0
(4)	3953.106	4089.217	0.01	3.4	15.0
(5)	6227.437	6559.427	0.01	5.3	15.0
4cmx	86843.352	88065.490	0.01	1.4	15.0
Decachlorobiphenyl	64843.758	63780.140	0.01	-1.6	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.: 10-1564  
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1325  
 Lab File ID: 033F3301 Init. Calib. Date(s): 02/03/10 02/03/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4664.624	4529.687	0.01	-2.9	15.0
(2)	5769.588	5840.240	0.01	1.2	15.0
(3)	2454.201	2398.191	0.01	-2.3	15.0
(4)	2198.179	2140.017	0.01	-2.6	15.0
(5)	3142.156	3094.078	0.01	-1.5	15.0
Aroclor-1260	6738.969	6514.014	0.01	-3.3	15.0
(2)	10259.796	9893.168	0.01	-3.6	15.0
(3)	6129.851	5932.698	0.01	-3.2	15.0
(4)	6385.867	6337.042	0.01	-0.8	15.0
(5)	6859.759	7304.897	0.01	6.5	15.0
4cmx	131406.10	136952.20	0.01	4.2	15.0
Decachlorobiphenyl	99981.358	99546.260	0.01	-0.4	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1564  
 Instrument ID: ECD8A Calibration Date: 02/12/10 Time: 1325  
 Lab File ID: 033B3301 Init. Calib. Date(s): 02/03/10 02/03/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1024 1114  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3766.401	3869.768	0.01	2.7	15.0
(2)	2494.427	2493.274	0.01	-0.0	15.0
(3)	1515.492	1605.277	0.01	5.9	15.0
(4)	1493.163	1415.340	0.01	-5.2	15.0
(5)	2035.618	1922.083	0.01	-5.6	15.0
Aroclor-1260	4084.417	4276.875	0.01	4.7	15.0
(2)	4968.902	5145.887	0.01	3.6	15.0
(3)	3788.418	4664.119	0.01	23.1	15.0 <-
(4)	3953.106	4133.683	0.01	4.6	15.0
(5)	6227.437	7602.227	0.01	22.1	15.0 <-
4cmx	86843.352	87572.410	0.01	0.8	15.0
Decachlorobiphenyl	64843.758	75925.500	0.01	17.1	15.0 <-

FORM VII PEST

Data File: /chem/ecd8a.i/021210.b/002f0201.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/002f0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 12-FEB-2010 07:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.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			
2.252	2.252	0.000	13913678 100.000	106	80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.245	6.245	0.000	9799340 100.000	98.0	80.00- 120.00	100.00	
-----							
1 Aroclor-1016				CAS #: 12674-11-2			
2.811	2.811	0.000	4548503 1000.00	975	80.00- 120.00	100.00	
3.163	3.163	0.000	5603763 1000.00	971	98.17- 138.17	123.20	
3.306	3.306	0.000	2323075 1000.00	946	30.98- 70.98	51.07	
3.399	3.399	0.000	2073020 1000.00	943	25.80- 65.80	45.58	
3.561	3.561	0.000	2985421 1000.00	950	45.68- 85.68	65.64	
Average of Peak Amounts =				957			
-----							
7 Aroclor-1260				CAS #: 11096-82-5			
4.435	4.435	0.000	6360304 1000.00	944	80.00- 120.00	100.00	
4.631	4.631	0.000	9595648 1000.00	935	131.83- 171.83	150.87	
4.906	4.906	0.000	5825535 1000.00	950	72.34- 112.34	91.59	
5.078	5.078	0.000	6234878 1000.00	976	79.25- 119.25	98.03	
5.490	5.490	0.000	6996429 1000.00	1020	91.49- 131.49	110.00	
Average of Peak Amounts =				965			

Data File: /chem/ecod8a.i/021210.b/002f0201.d

Date: 12-FEB-2010 07:02

Client ID: AR166001

Sample Info: 14AR100203-60 01

Column phase: CLP1

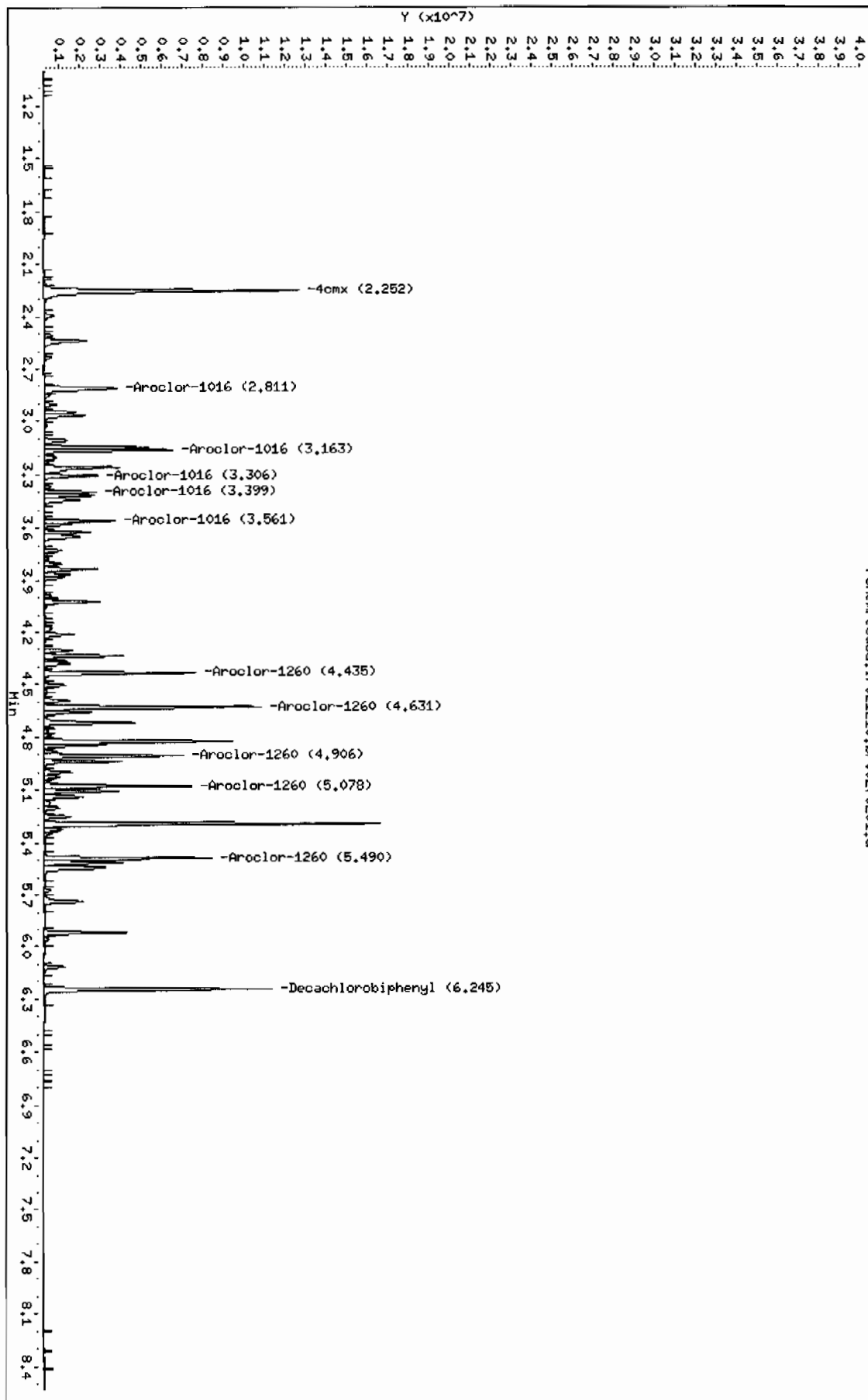
Instrument: ecod8a.i

Operator: JHOC

Column diameter: 0.25

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/chem/ecod8a.i/021210.b/002f0201.d



Data File: /chem/ecd8a.i/021210.b/002b0201.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/002b0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 12-FEB-2010 07:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212

Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.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		
2.486	2.486	0.000	9185972	100.000	106	80.00- 120.00	100.00
-----							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.836	6.836	0.000	6502957	100.000	100	80.00- 120.00	100.00
-----							
1 Aroclor-1016					CAS #: 12674-11-2		
3.558	3.558	0.000	3777022	1000.00	1000	80.00- 120.00	100.00
3.658	3.658	0.000	2504931	1000.00	1000	47.75- 87.75	66.32
3.734	3.734	0.000	1469541	1000.00	970	19.55- 59.55	38.91
3.809	3.809	0.000	1424437	1000.00	954	18.40- 58.40	37.71
4.006	4.006	0.000	1995100	1000.00	980	33.91- 73.91	52.82
Average of Peak Amounts =					982		
-----							
7 Aroclor-1260					CAS #: 11096-82-5		
4.919	4.919	0.000	4339858	1000.00	1060	80.00- 120.00	100.00
5.068	5.068	0.000	5272237	1000.00	1060	101.70- 141.70	121.48
5.384	5.384	0.000	4034100	1000.00	1060	73.49- 113.49	92.95
5.591	5.591	0.000	4196512	1000.00	1060	76.84- 116.84	96.70
6.023	6.023	0.000	6650370	1000.00	1070	135.34- 175.34	153.24
Average of Peak Amounts =					1.06e+03		

Data File: /chem/ecdb8a.i/021210.b/002b0201.d

Date: 12-FEB-2010 07:02

Client ID: AR166001

Sample Info: 1MAR100203-60 01

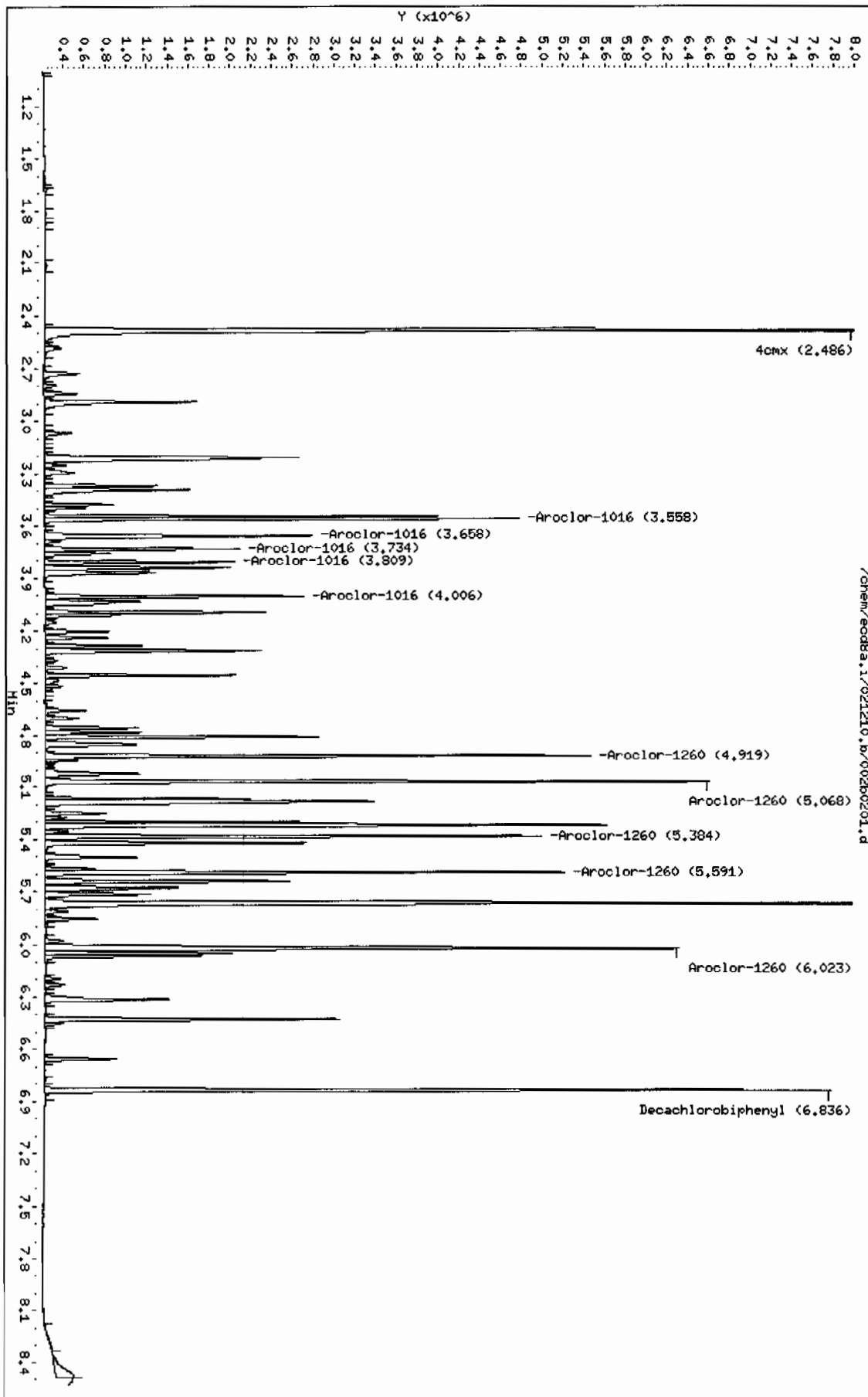
Page 1

Column phase: CLP2

Instrument: ecdb8a.i

Operator: JAO

Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/003f0301.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/003f0301.d  
Lab Smp Id: WAR100201-54 Client Smp ID: AR125401  
Inj Date : 12-FEB-2010 07:14  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100201-54  
Misc Info : |1254  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 3 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1254.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
-----						
6 Aroclor-1254			CAS #: 11097-69-1			
3.837	3.837	0.000	4792955 1000.00	1000	80.00- 120.00	100.00
4.025	4.025	0.000	6493192 1000.00	988	115.47- 155.47	135.47
4.220	4.220	0.000	4910432 1000.00	956	82.45- 122.45	102.45
4.306	4.306	0.000	8520921 1000.00	968	157.78- 197.78	177.78
4.501	4.501	0.000	6638641 1000.00	960	118.51- 158.51	138.51
Average of Peak Amounts =			975			



Data File: /chem/eod8a.i/021210.b/003f0301.d

Date: 12-FEB-2010 07:14

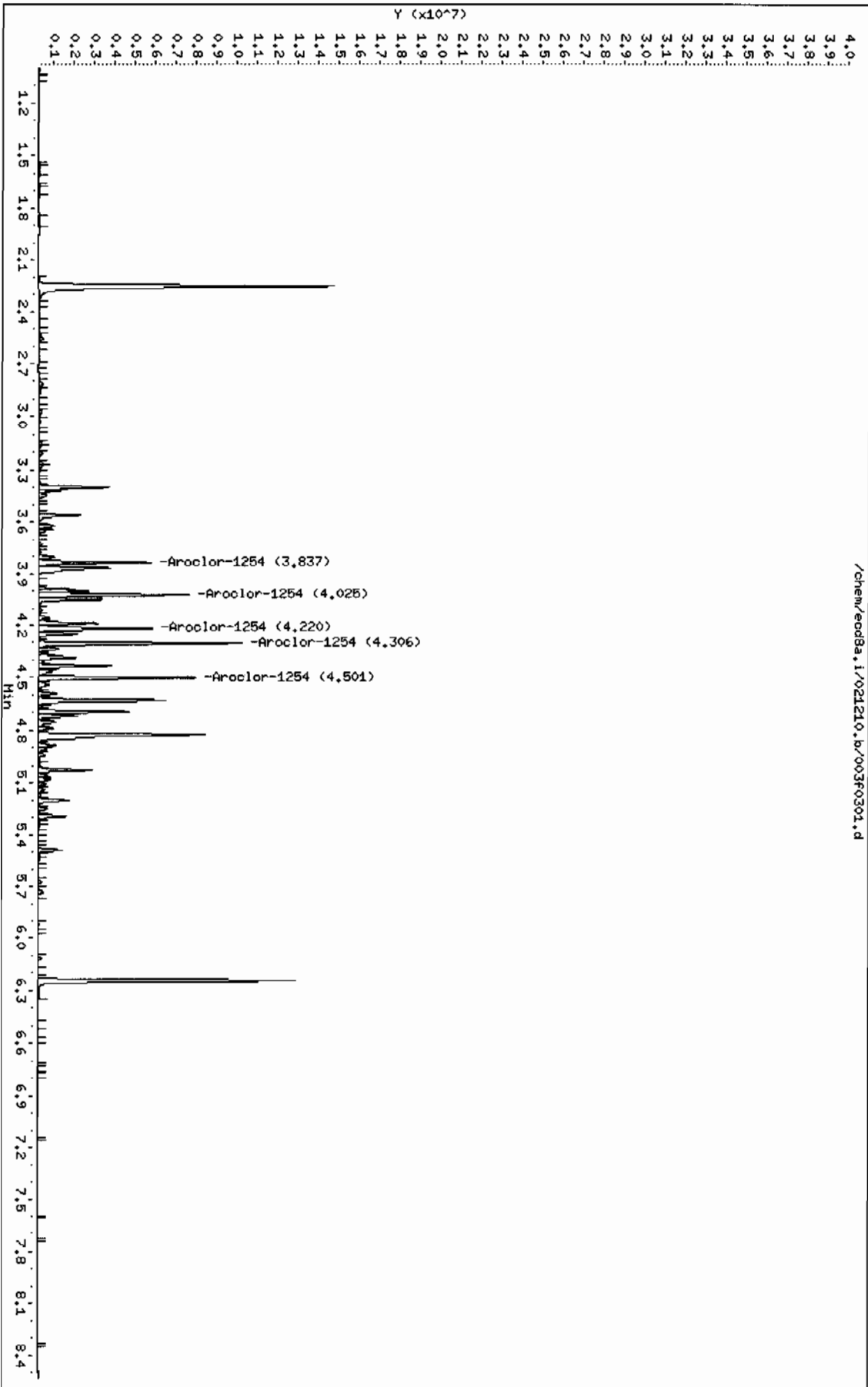
Client ID: RR125401

Sample Info: IMR100201-54

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Column phase: CLP1

Instrument: eod8a.i  
Operator: JROC  
Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/003b0301.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/003b0301.d  
Lab Smp Id: WAR100201-54 Client Smp ID: AR125401  
Inj Date : 12-FEB-2010 07:14  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100201-54  
Misc Info : |1254  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 3 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1254.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
4.313	4.313	0.000	3619477	1000.00	1050 80.00- 120.00	100.00
4.451	4.451	0.000	4078317	1000.00	1040 92.68- 132.68	112.68
4.780	4.780	0.000	5822783	1000.00	1060 140.87- 180.87	160.87
4.942	4.942	0.000	4223178	1000.00	1050 96.68- 136.68	116.68
5.068	5.068	0.000	2674832	1000.00	1050 53.90- 93.90	73.90
Average of Peak Amounts =			1.05e+03			

Data File: /chem/eod8a.i/021210.b/003b0301.d

Date: 12-FEB-2010 07:14

Client ID: AR125401

Sample Info: 11AR100201-54

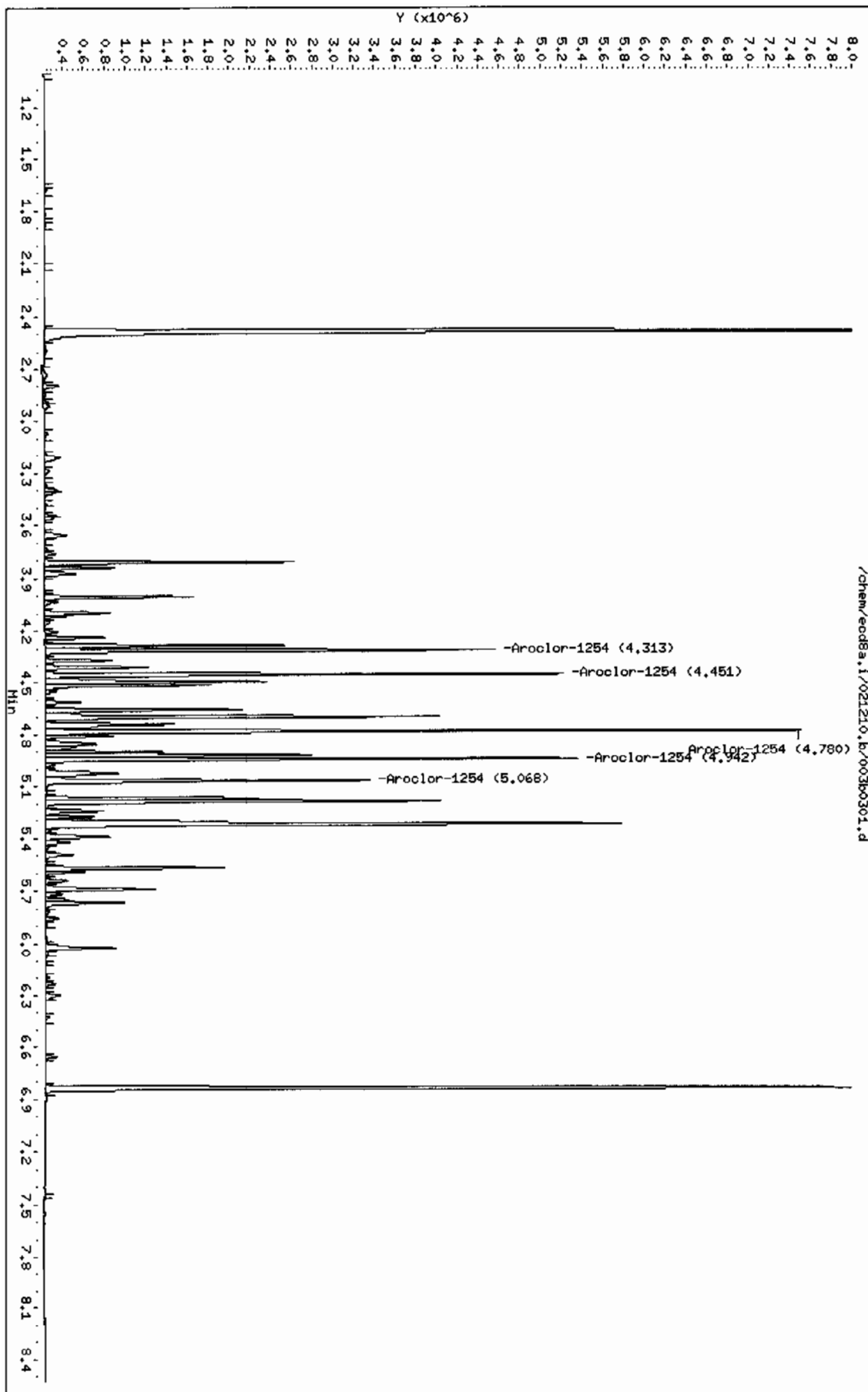
Column phase: CLP2

Instrument: eod8a.i

Operator: JHOC

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 12-FEB-2010 07:26

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-42

Misc Info : |1242

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

2.812	2.812	0.000	3721427	1000.00	936 80.00- 120.00	100.00
3.164	3.164	0.000	4447831	1000.00	927 99.52- 139.52	119.52
3.400	3.400	0.000	1643502	1000.00	910 24.16- 64.16	44.16
3.417	3.417	0.000	1688795	1000.00	894 25.38- 65.38	45.38
3.562	3.562	0.000	2416012	1000.00	913 44.92- 84.92	64.92

Average of Peak Amounts =

916

Data File: /chem/ecod8a.i/021210.b/004f0401.d

Date: 12-FEB-2010 07:26

Client ID: AR124201

Sample Info: 1MAR091217-42

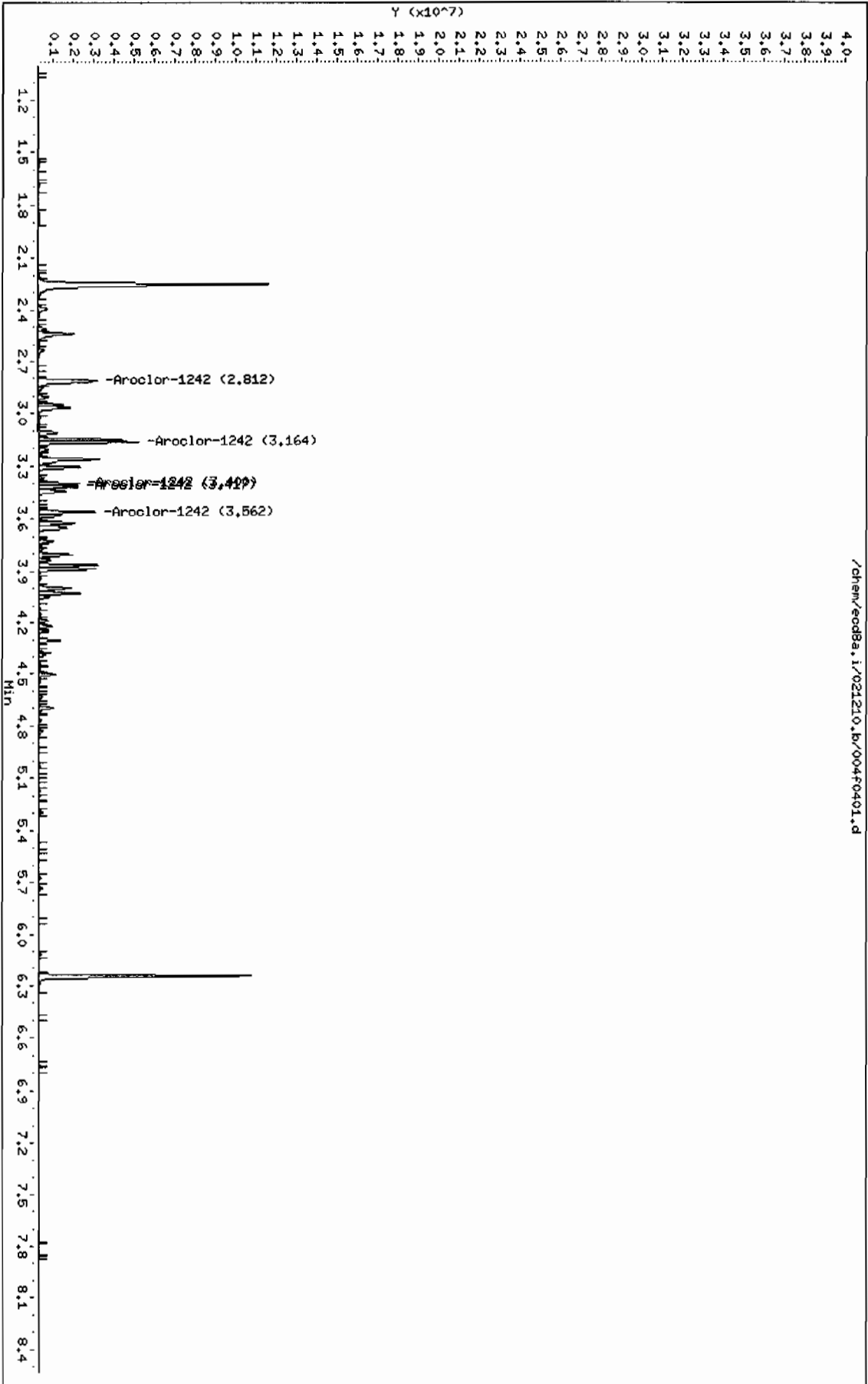
Column phase: CLP1

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Instrument: ecod8a.i

Operator: JHOC

Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/004b0401.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/004b0401.d  
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201  
Inj Date : 12-FEB-2010 07:26  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR091217-42  
Misc Info : |1242  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 4 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1242.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
3.206	3.206	0.000	2518361 1000.00	941	80.00- 120.00	100.00
3.559	3.559	0.000	2915172 1000.00	933	95.76- 135.76	115.76
3.659	3.659	0.000	2010413 1000.00	945	59.83- 99.83	79.83
4.006	4.006	0.000	1576801 1000.00	926	42.61- 82.61	62.61
4.096	4.096	0.000	1486237 1000.00	949	39.02- 79.02	59.02
Average of Peak Amounts =				939		

Data File: /chem/ecob8a.i/021210.b/004b0401.d

Date : 12-FEB-2010 07:26

Client ID: AR124201

Sample Info: 1MAR091217-42

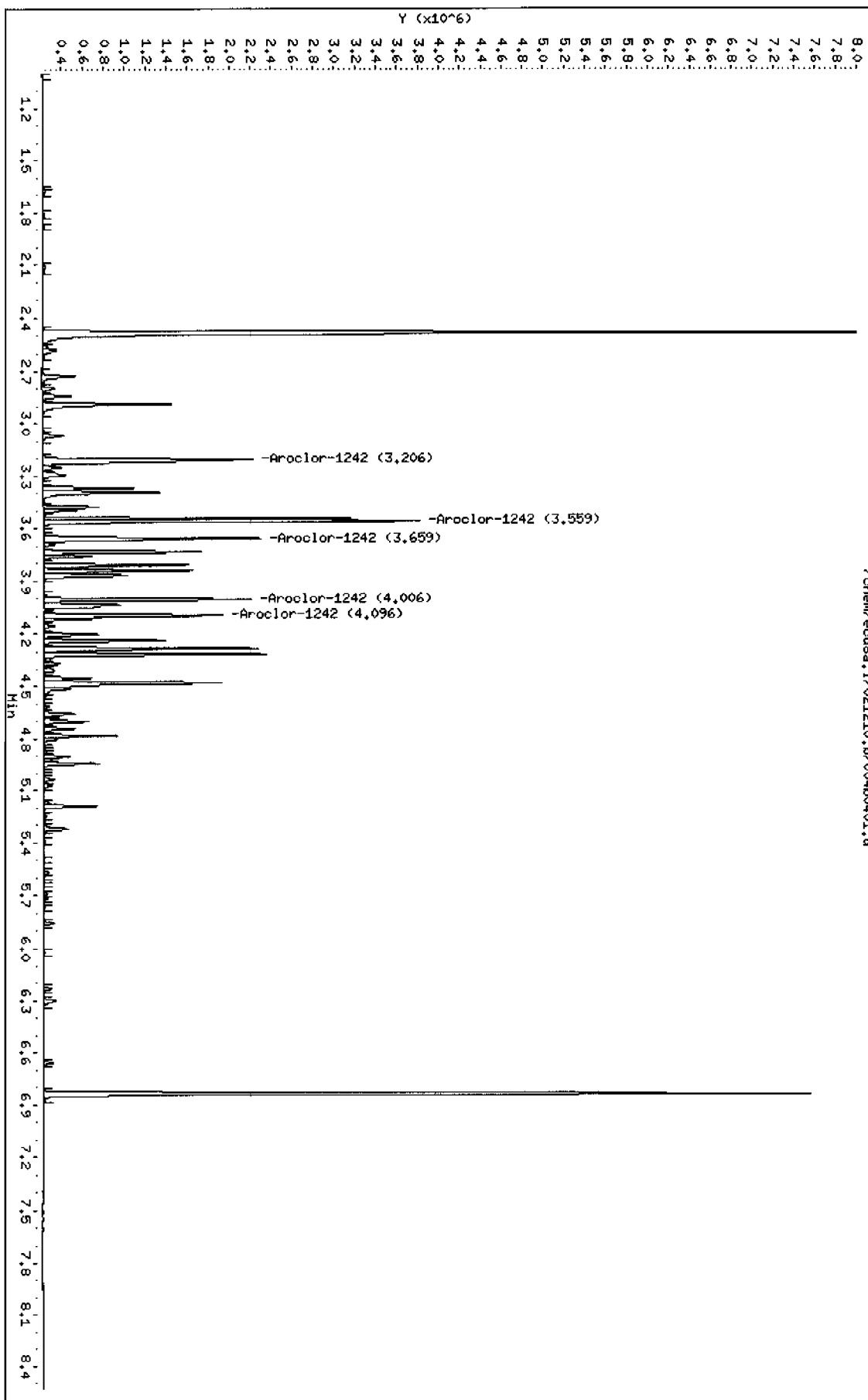
Column phase: CLP2

Instrument: ecob8a.i

Operator: JROC

Column diameter: 0.25

/chem/ecob8a.i/021210.b/004b0401.d



Data File: /chem/ecd8a.i/021210.b/005f0501.d  
 Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 12-FEB-2010 07:38

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-48

Misc Info : |1248

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
3.148	3.148	0.000	2353370 1000.00	787	80.00- 120.00	100.00
3.399	3.399	0.000	3094483 1000.00	809	111.49- 151.49	131.49
3.562	3.562	0.000	4049295 1000.00	810	152.06- 192.06	172.06
3.867	3.867	0.000	4836876 1000.00	808	185.53- 225.53	205.53
4.027	4.027	0.000	3828514 1000.00	793	142.68- 182.68	162.68
Average of Peak Amounts =				801		



Data File: /chem/ecod8a.i/021210.b/005f0501.d

Date: 12-FEB-2010 07:38

Client ID: AR124801

Sample Info: 114R091217-48

Column phase: CLP1

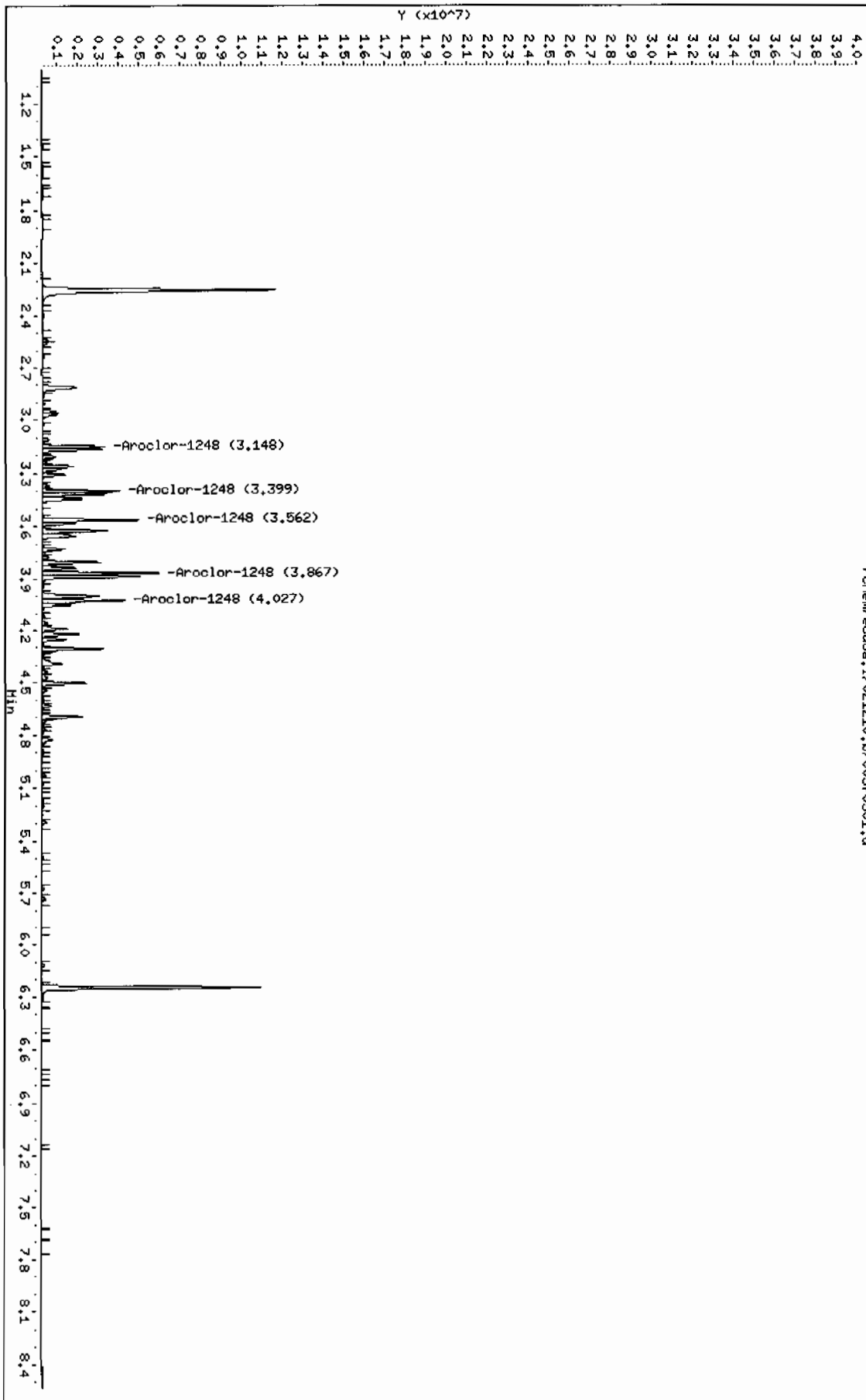
Page 1

Instrument: ecod8a.i

Operator: JAO

Column diameter: 0.25

/chem/ecod8a.i/021210.b/005f0501.d



Data File: /chem/ecd8a.i/021210.b/005b0501.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/005b0501.d  
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801  
Inj Date : 12-FEB-2010 07:38  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR091217-48  
Misc Info : |1248  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 5 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1248.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
3.657	3.657	0.000	1278541 1000.00	896 80.00- 120.00	100.00	
3.810	3.810	0.000	2151154 1000.00	872 148.25- 188.25	168.25	
4.006	4.006	0.000	2705822 1000.00	876 191.63- 231.63	211.63	
4.284	4.284	0.000	3187472 1000.00	874 229.31- 269.31	249.31	
4.317	4.317	0.000	3516359 1000.00	878 255.03- 295.03	275.03	
Average of Peak Amounts =				879		

Data File: /chem/ecod8a.i/021210.b/005b0501.d

Date : 12-FEB-2010 07:38

Client ID: AR124801

Sample Info: 114R091217-48

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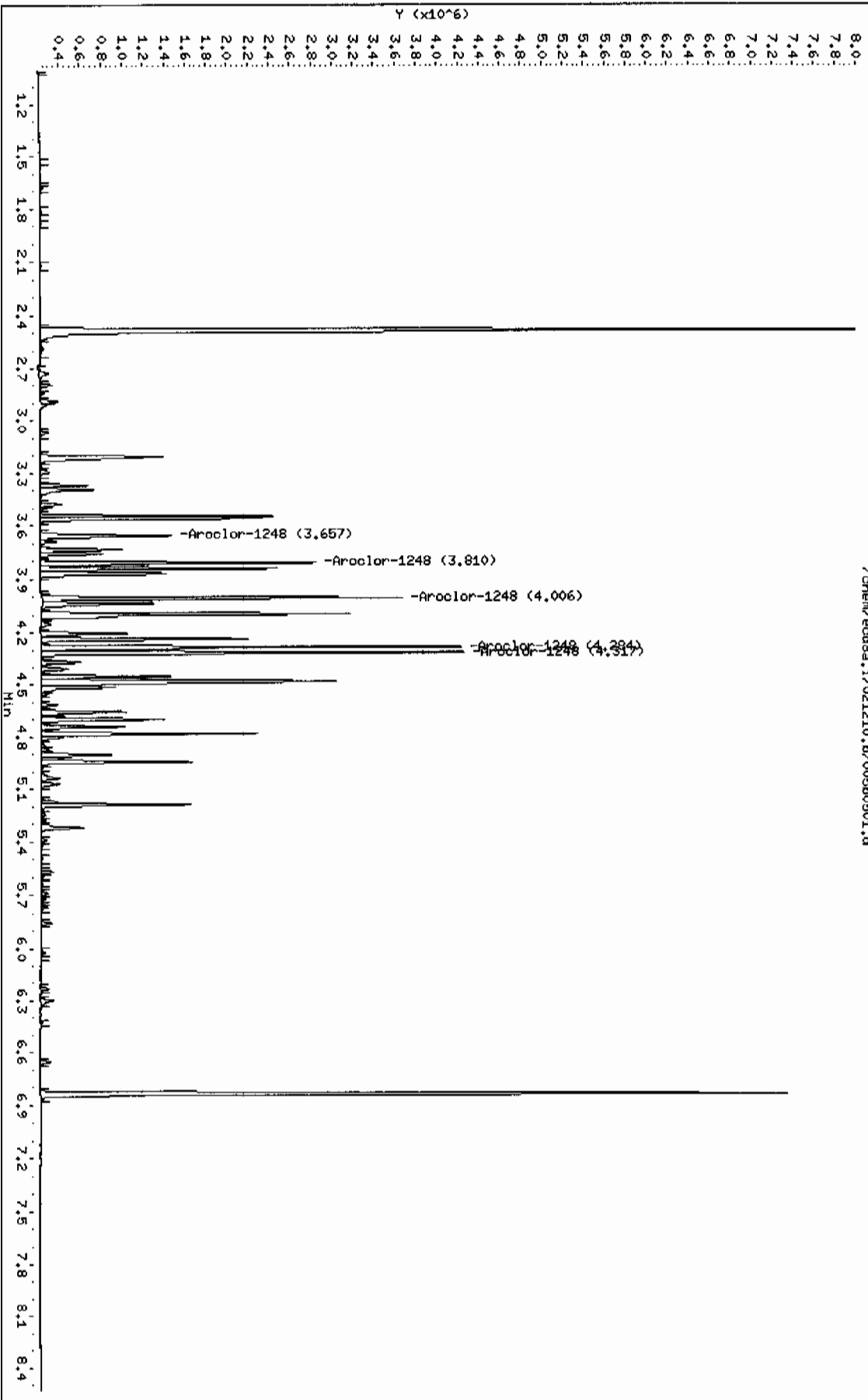
Instrument: ecod8a.i

Operator: JHOC

Column diameter: 0.25

Column phase: CLP2

/chem/ecod8a.i/021210.b/005b0501.d



Data File: /chem/ecd8a.i/021210.b/006f0601.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/006f0601.d

Lab Smp Id: WAR100104-32 Client Smp ID: AR123201

Inj Date : 12-FEB-2010 07:51

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100104-32

Misc Info : |1232

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.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			
2.541	2.541	0.000	2439278	1000.00	938 80.00- 120.00	100.00
2.812	2.812	0.000	2151380	1000.00	952 68.20- 108.20	88.20
3.308	3.308	0.000	1097887	1000.00	883 25.01- 65.01	45.01
3.562	3.562	0.000	1342194	1000.00	908 35.02- 75.02	55.02
3.624	3.624	0.000	820349	1000.00	889 13.63- 53.63	33.63

Average of Peak Amounts = 914

Data File: /chem/eod8a.i/021210.b/006f0601.d

Date: 12-FEB-2010 07:51

Client ID: AR123201

Sample Info: 1MAR100104-32

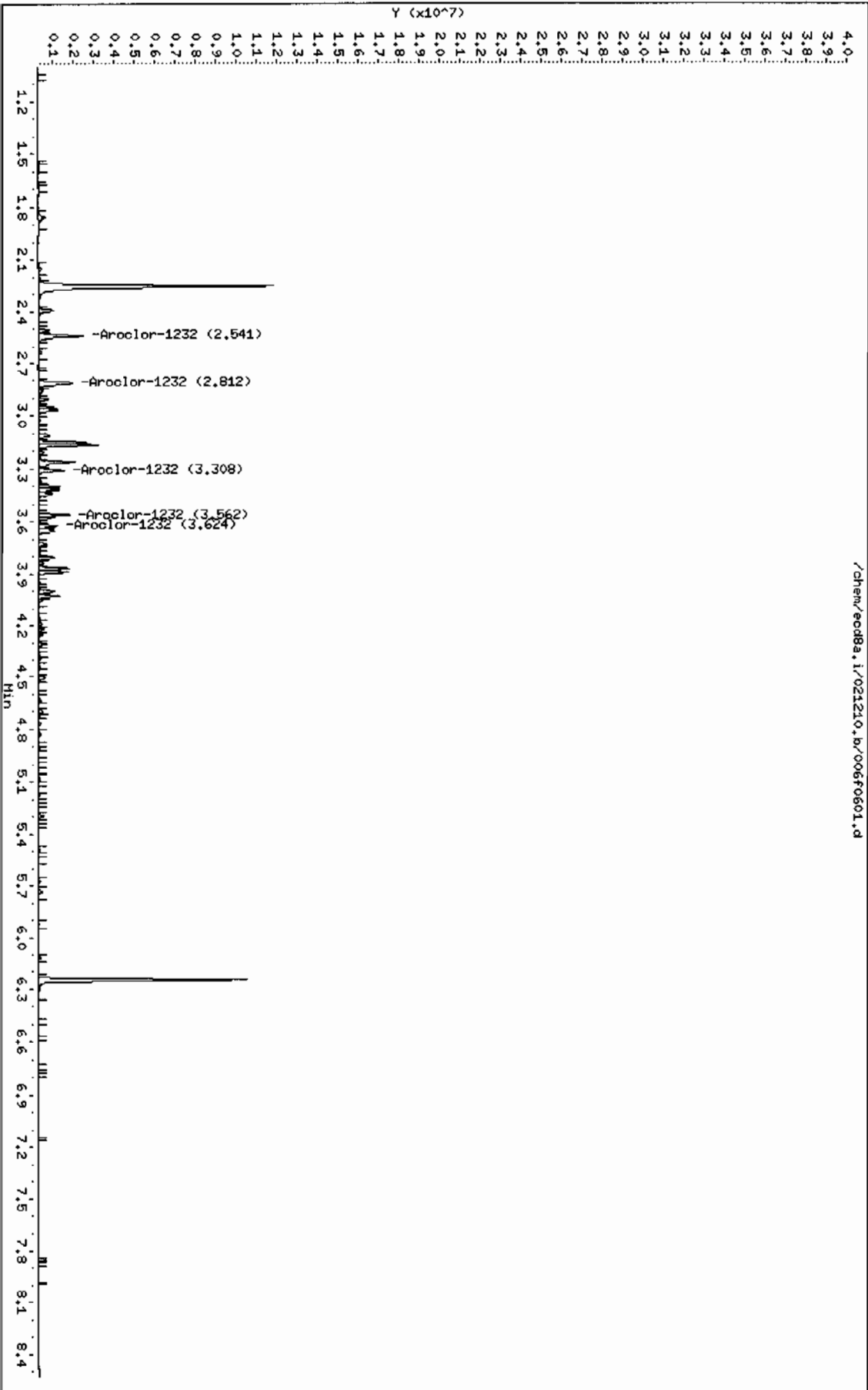
Column phase: CLP1

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Instrument: eod8a.i

Operator: JHOC

Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/006b0601.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/006b0601.d  
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201  
Inj Date : 12-FEB-2010 07:51  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100104-32  
Misc Info : |1232  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 6 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1232.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
3.207	3.207	0.000	1484066	980	80.00- 120.00	100.00
3.560	3.560	0.000	1629700	934	89.81- 129.81	109.81
3.659	3.659	0.000	1148925	976	57.42- 97.42	77.42
3.735	3.735	0.000	677509	954	25.65- 65.65	45.65
3.810	3.810	0.000	592816	959	19.95- 59.95	39.95
Average of Peak Amounts =				961		

Data File: /chem/eodba.i/021210.b/00600601.d

Date: 12-FEB-2010 07:51

Client ID: AR123201

Sample Info: IWR100104-32

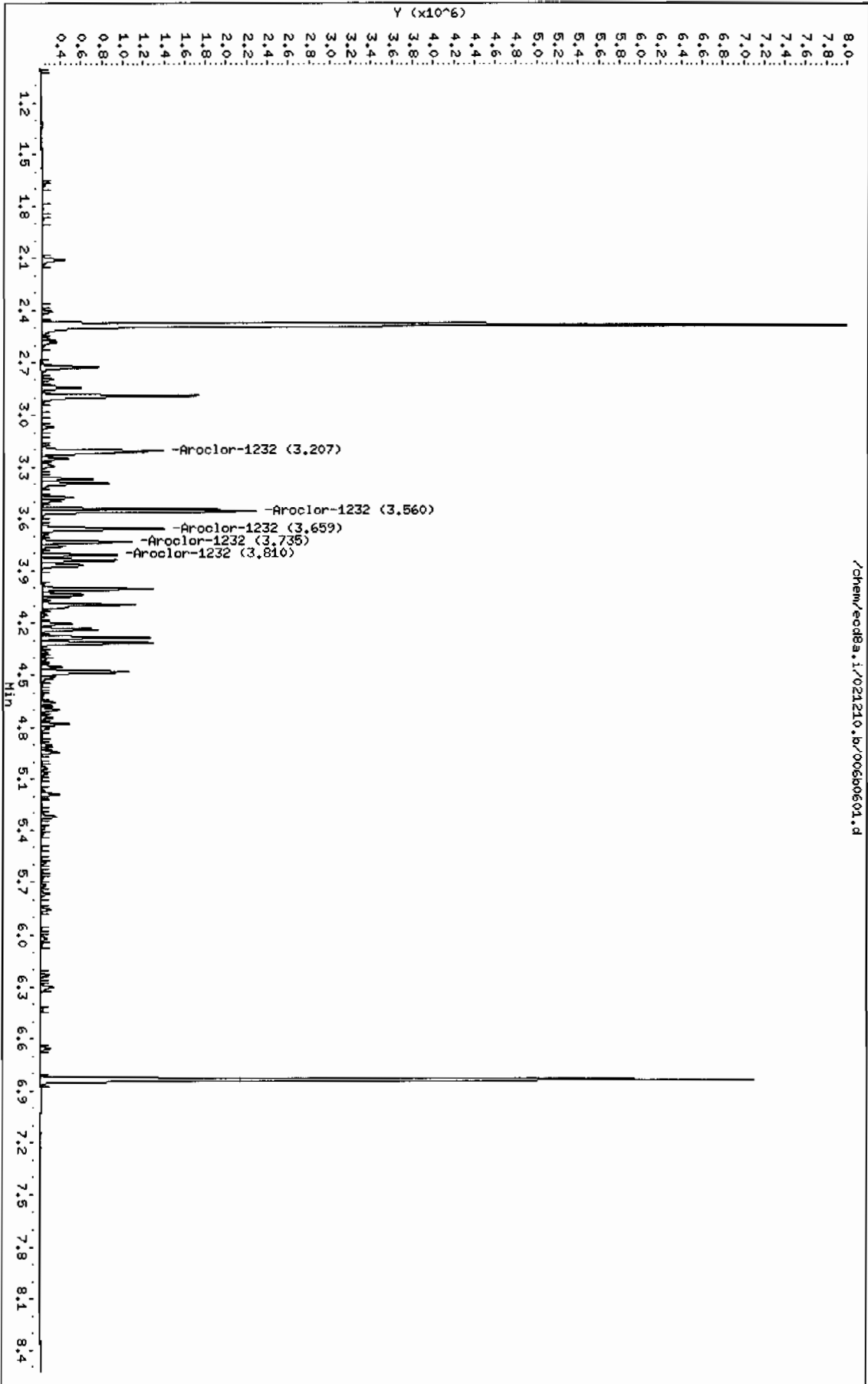
Column phase: CLP2

Instrument: eodba.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/007f0701.d  
Report Date: 12-Feb-2010 13:07

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/007f0701.d  
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101  
Inj Date : 12-FEB-2010 08:03  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100104-21  
Misc Info : |1221  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 7 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1221.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
1.855	1.855	0.000	1199847 1000.00	1090	80.00- 120.00	100.00
2.394	2.394	0.000	1489304 1000.00	1020	104.12- 144.12	124.12
2.541	2.541	0.000	3334932 1000.00	985	257.95- 297.95	277.95
Average of Peak Amounts =			1.03e+03			



Data File: /chem/ecod8a.i/021210.b/007f0701.d

Date: 12-FEB-2010 08:03

Client ID: AR122101

Sample Info: 11AR100104-21

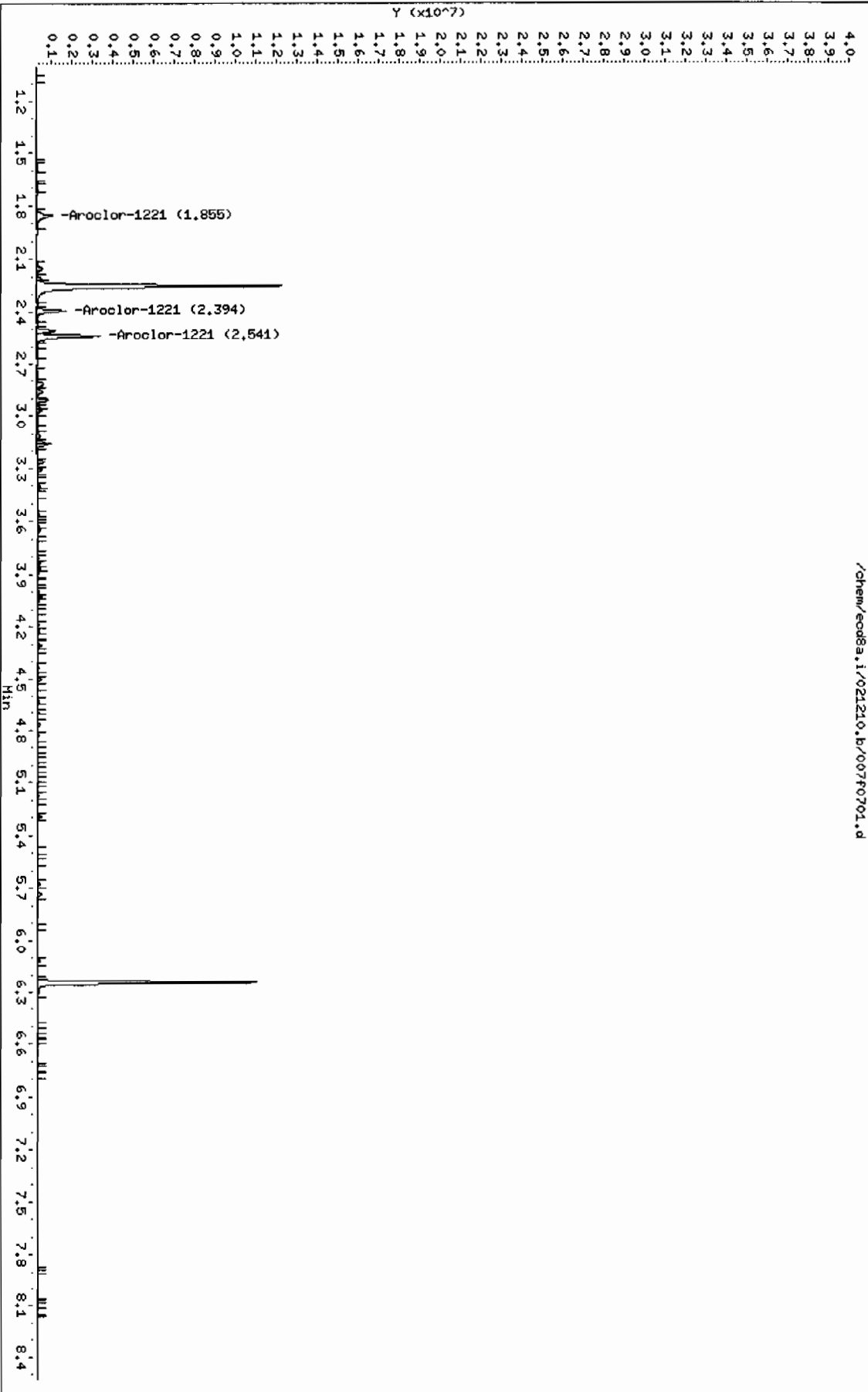
Column phase: CLP1

Instrument: ecod8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/007b0701.d  
Report Date: 12-Feb-2010 13:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/007b0701.d

Lab Smp Id: WAR100104-21 Client Smp ID: AR122101

Inj Date : 12-FEB-2010 08:03

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100104-21

Misc Info : |1221

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.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

2.727	2.727	0.000	978372	1000.00	1090 80.00- 120.00	100.00
2.839	2.839	0.000	563525	1000.00	1050 39.64- 79.64	59.64
2.888	2.888	0.000	2087832	1000.00	1010 193.40- 233.40	213.40

Average of Peak Amounts = 1.05e+03

Data File: /chem/ecod8a.i/021210.b/007b0701.d

Date: 12-FEB-2010 08:03

Client ID: AR122101

Sample Info: 11MR100104-21

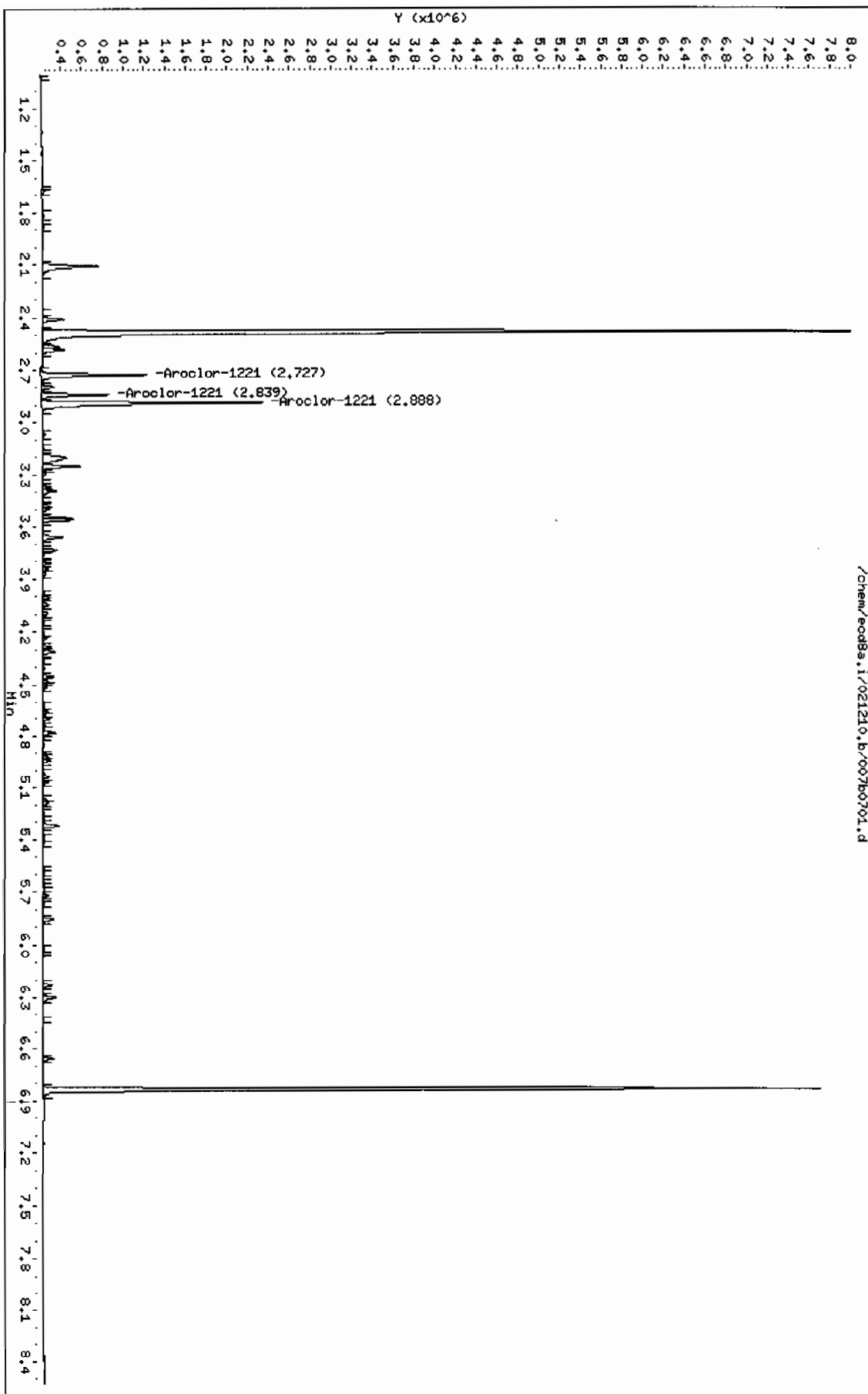
Column phase: CLP2

Instrument: ecod8a.i

Operator: JROC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/009f0901.d  
Report Date: 12-Feb-2010 13:07

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/009f0901.d  
Lab Smp Id: WAR100107-68 Client Smp ID: AR126801  
Inj Date : 12-FEB-2010 08:28  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100107-68  
Misc Info : |1268  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 9 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1268.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
9 Aroclor-1268			CAS #: 11100-14-4			
5.514	5.514	0.000	16117772 1000.00	987	80.00- 120.00	100.00
5.541	5.541	0.000	15664642 1000.00	996	77.19- 117.19	97.19
5.673	5.673	0.000	12019899 1000.00	995	54.58- 94.58	74.58
5.919	5.919	0.000	5920910 1000.00	983	16.74- 56.74	36.74
6.116	6.116	0.000	35132887 1000.00	976	197.98- 237.98	217.98
Average of Peak Amounts =			988			

Data File: /chem/ecdb8a.i/021210.b/009f0901.d

Date : 12-FEB-2010 08:28

Client ID: AR126801

Sample Info: 14AR100107-68

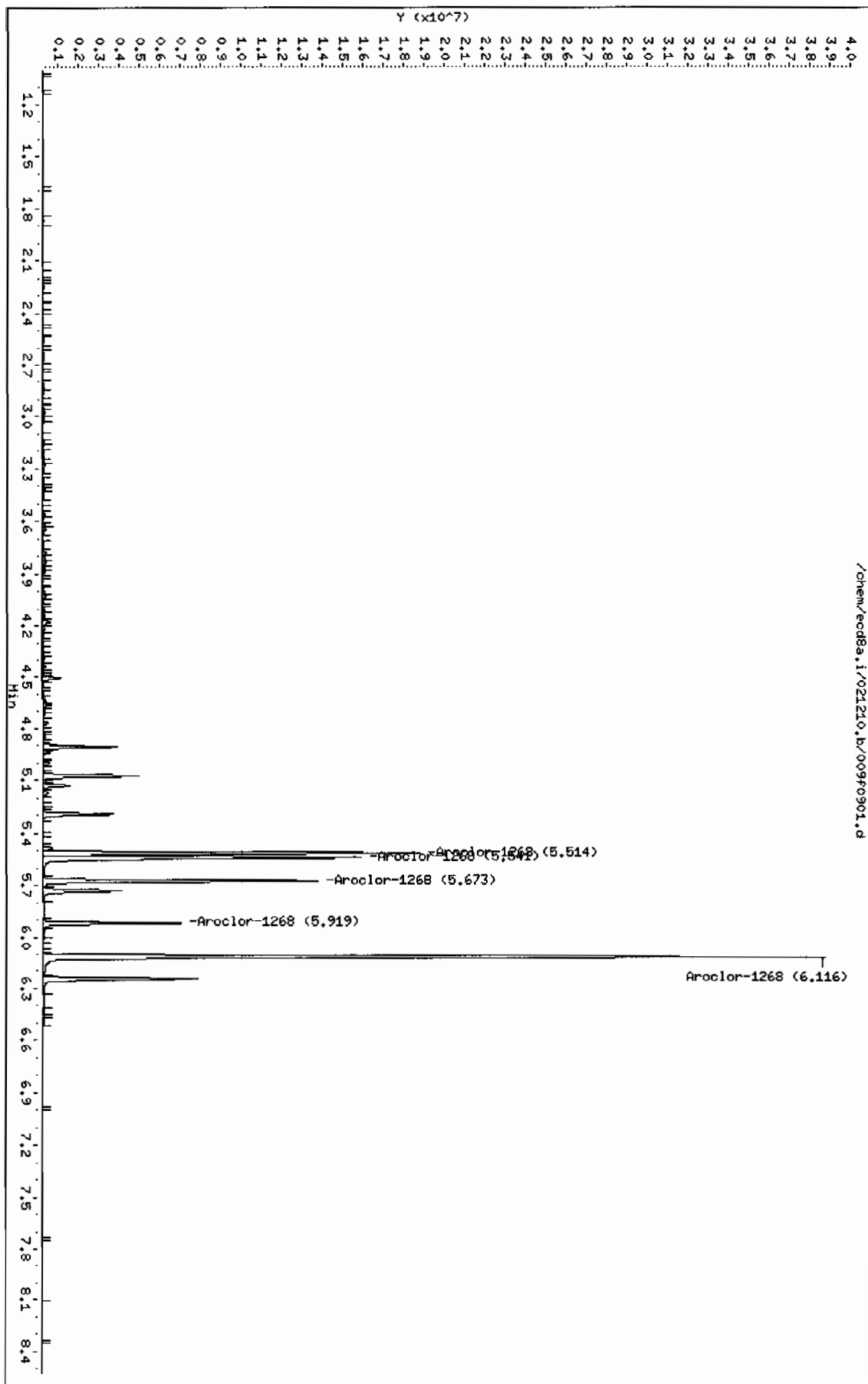
Column phase: CLP1

Instrument: ecdb8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/009b0901.d  
Report Date: 12-Feb-2010 13:07

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/009b0901.d  
Lab Smp Id: WAR100107-68 Client Smp ID: AR126801  
Inj Date : 12-FEB-2010 08:28  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100107-68  
Misc Info : |1268  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 9 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1268.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
-----						
9 Aroclor-1268			CAS #: 11100-14-4			
6.018	6.018	0.000	11382722 1000.00	1000	80.00- 120.00	100.00
6.051	6.051	0.000	10442539 1000.00	1000	71.74- 111.74	91.74
6.230	6.230	0.000	8200340 1000.00	1000	52.04- 92.04	72.04
6.427	6.427	0.000	4024717 1000.00	992	15.36- 55.36	35.36
6.656	6.656	0.000	24539385 1000.00	996	195.58- 235.58	215.58
Average of Peak Amounts =			998			

Data File: /chem/ecdb8a.i/021210.b/009b0901.d

Date : 12-FEB-2010 08:28

Client ID: PR126801

Sample Info: 1MAR100107-68

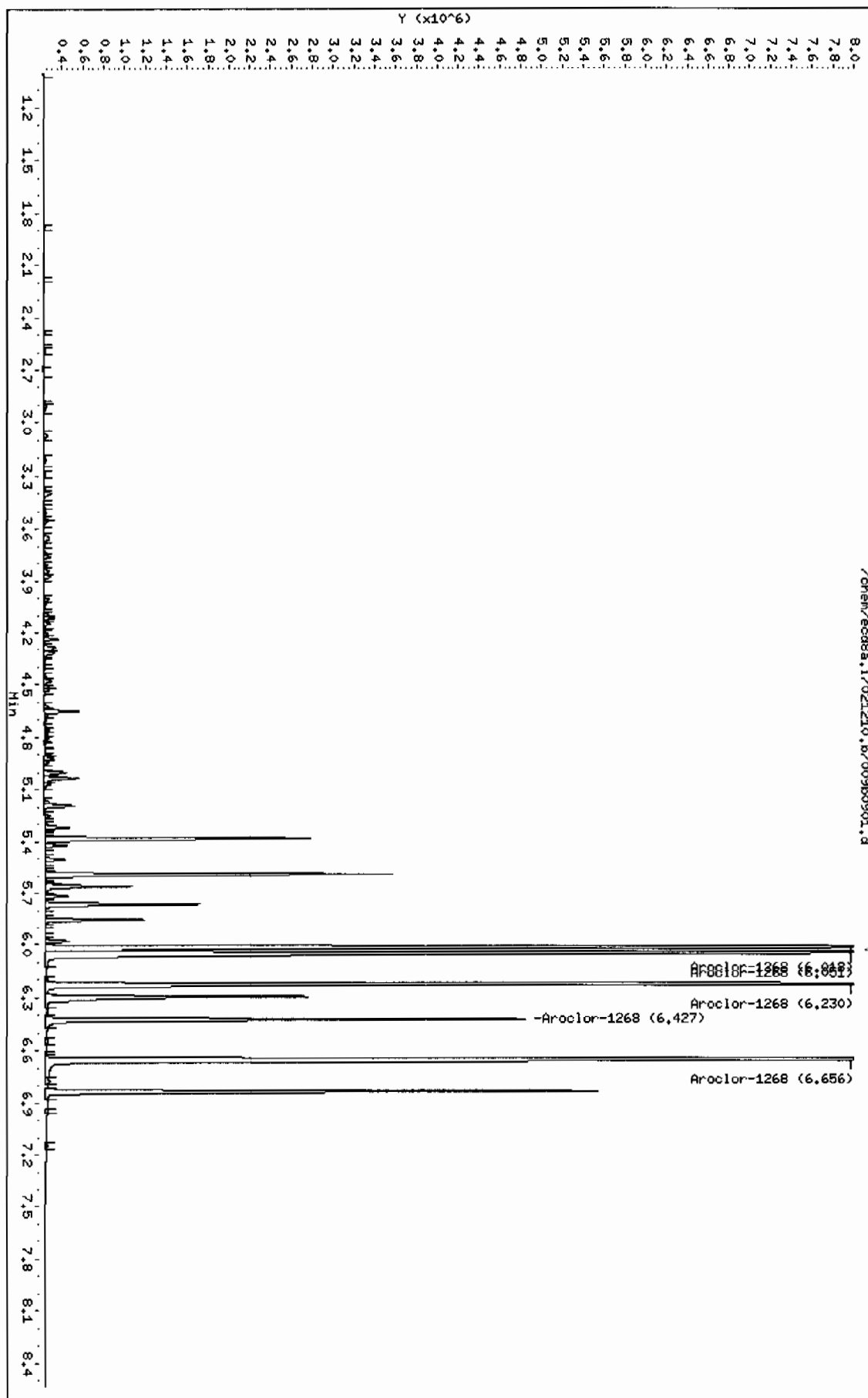
Column phase: CLP2

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/021210.b/021f2101.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 12-FEB-2010 10:56

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 02

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 12-Feb-2010 11:13 jen01212

Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 21

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			
2.254	2.252	0.002	13428487 100.000	102	80.00- 120.00	100.00
-----						
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.247	6.245	0.002	9639395 100.000	96.4	80.00- 120.00	100.00 (M)
-----						
1 Aroclor-1016			CAS #: 12674-11-2			
2.813	2.811	0.002	4427289 1000.00	949	80.00- 120.00	100.00
3.164	3.163	0.001	5231669 1000.00	907	98.17- 138.17	118.17
3.308	3.306	0.002	2257198 1000.00	920	30.98- 70.98	50.98
3.399	3.399	0.000	2027637 1000.00	922	25.80- 65.80	45.80
3.562	3.561	0.001	2907902 1000.00	925	45.68- 85.68	65.68
Average of Peak Amounts				925		
-----						
7 Aroclor-1260			CAS #: 11096-82-5			
4.436	4.435	0.001	6210653 1000.00	922	80.00- 120.00	100.00 (M)
4.632	4.631	0.001	9429792 1000.00	919	131.83- 171.83	151.83
4.907	4.906	0.001	5734817 1000.00	936	72.34- 112.34	92.34
5.079	5.078	0.001	6164329 1000.00	965	79.25- 119.25	99.25
5.490	5.490	0.000	6924069 1000.00	1010	91.49- 131.49	111.49
Average of Peak Amounts =				950		
-----						



QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecob8a.i/021210.b/021f2101.d

Date: 12-FEB-2010 10:56

Client ID: PR166002

Sample Info: IRR100203-60 02

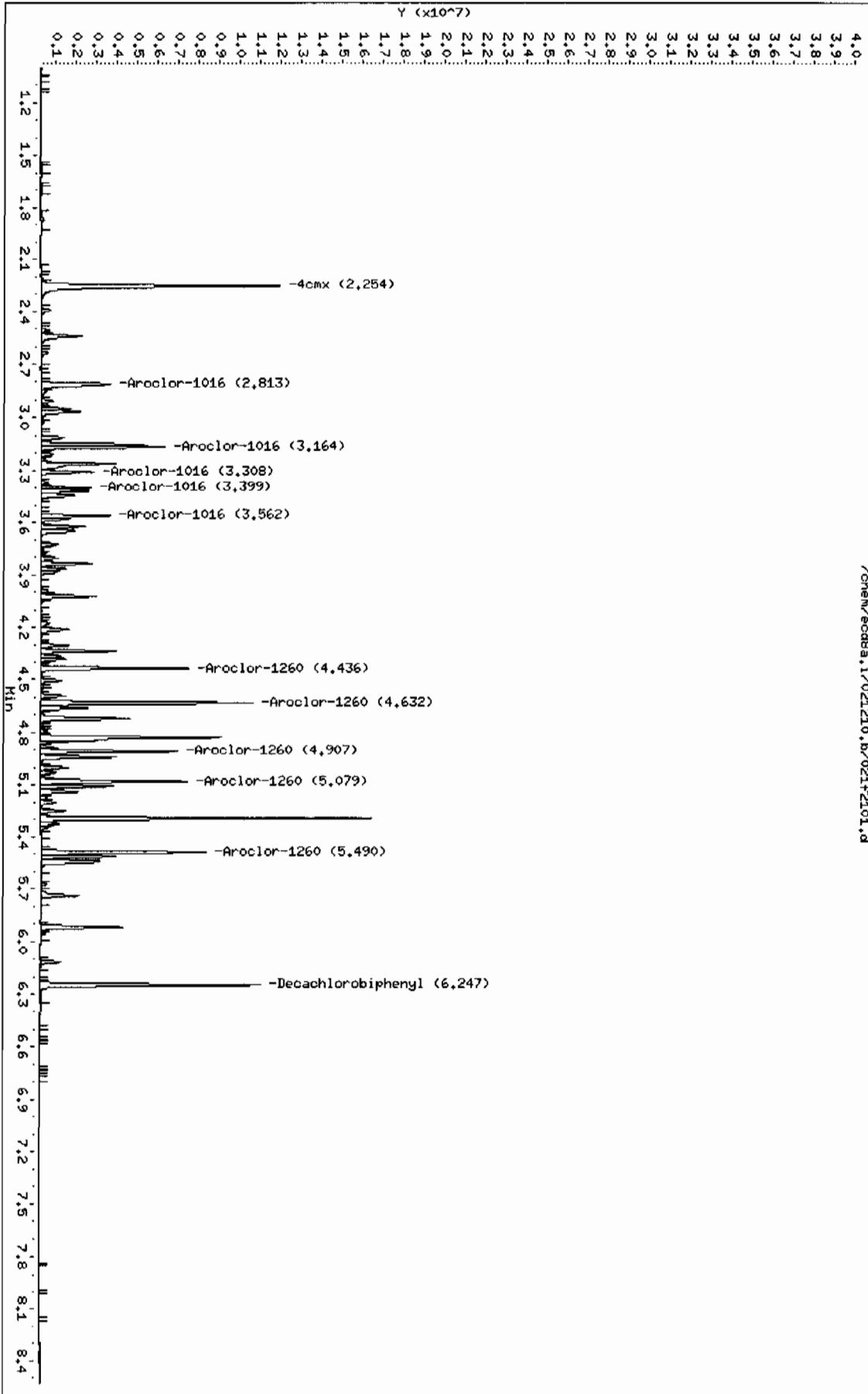
Column phase: CLP1

Instrument: ecob8a.i

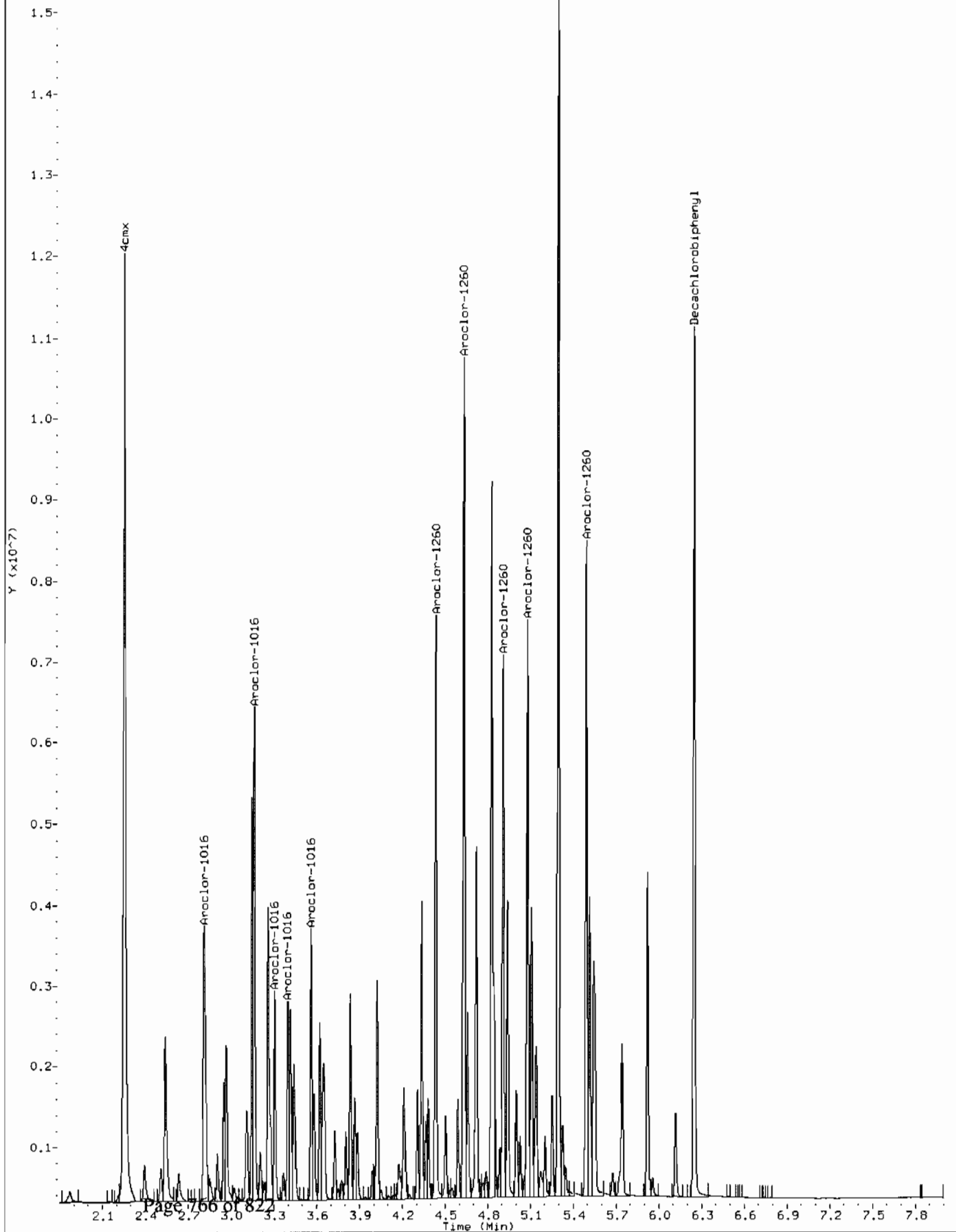
Operator: JHOC

Column diameter: 0.25

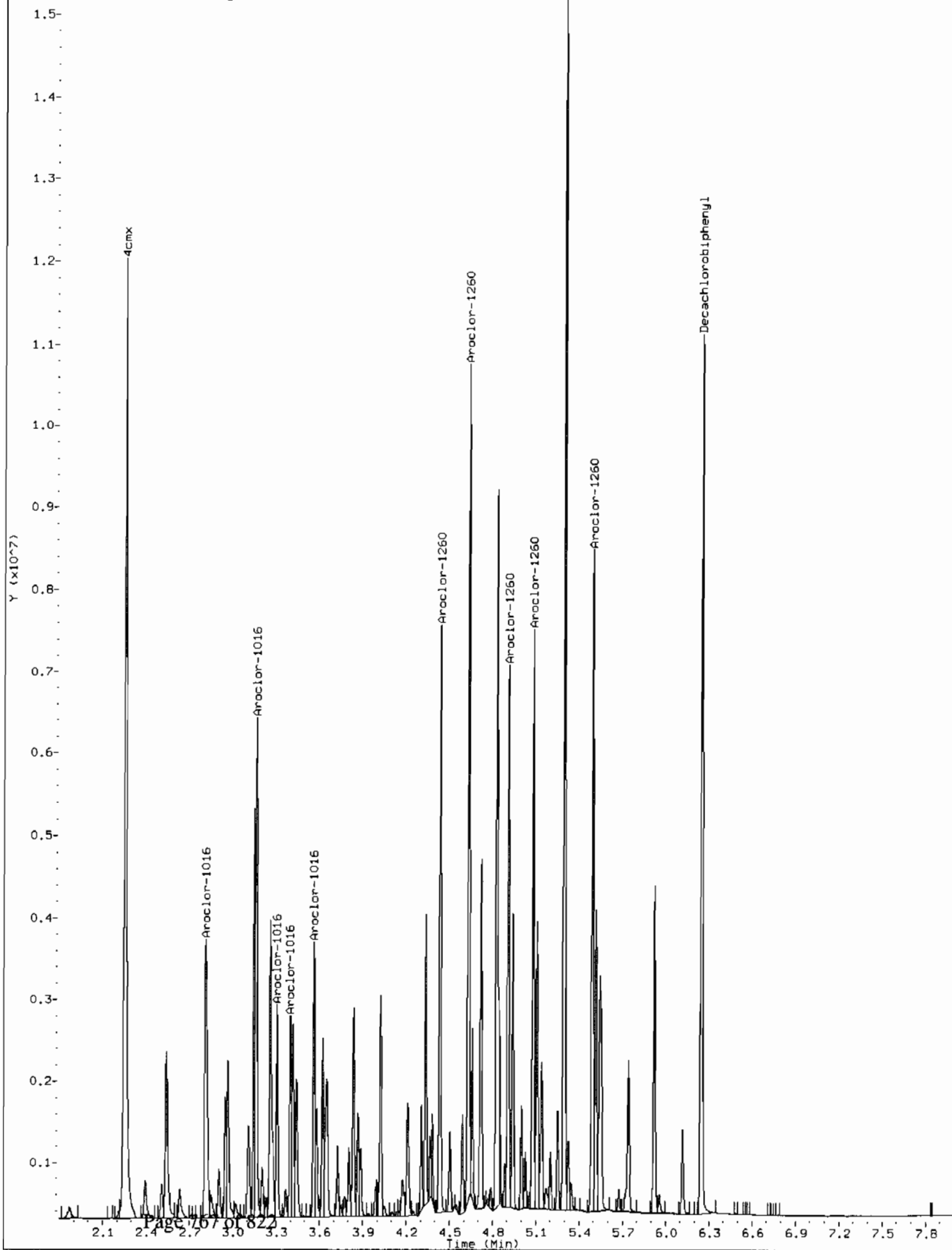
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Comment: Manually Integrated  
Data File: /chem/ecd8a.i/021210.b/021f2101.d  
Operator: JAOC  
Injection Date: 12-FEB-2010 10:56  
Instrument: ecd8a.i  
Client Sample ID: AR166002



Comment: Before manual integration  
Data File: /chem/ecd8a.i/021210.b/orig-021f2101.d  
Operator: JAOC  
Injection Date: 12-FEB-2010 10:56  
Instrument: ecd8a.i  
Client Sample ID: AR166002



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/021b2101.d  
Lab Smp Id: WAR100203-60 02 Client Smp ID: AR166002  
Inj Date : 12-FEB-2010 10:56  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100203-60 02  
Misc Info : |1660  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 21 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			
2.487	2.486	0.001	8806549	100.000	101	80.00-	120.00	100.00
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.837	6.836	0.001	6378014	100.000	98.4	80.00-	120.00	100.00
-----								
1 Aroclor-1016					CAS #: 12674-11-2			
3.559	3.558	0.001	3579581	1000.00	950	80.00-	120.00	100.00
3.659	3.658	0.001	2425108	1000.00	972	47.75-	87.75	67.75
3.735	3.734	0.001	1415841	1000.00	934	19.55-	59.55	39.55
3.809	3.809	0.000	1374673	1000.00	921	18.40-	58.40	38.40
4.006	4.006	0.000	1929912	1000.00	948	33.91-	73.91	53.91
Average of Peak Amounts =					945			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.920	4.919	0.001	4222628	1000.00	1030	80.00-	120.00	100.00
5.069	5.068	0.001	5138980	1000.00	1030	101.70-	141.70	121.70
5.385	5.384	0.001	3947606	1000.00	1040	73.49-	113.49	93.49
5.592	5.591	0.001	4089217	1000.00	1030	76.84-	116.84	96.84
6.024	6.023	0.001	6559427	1000.00	1050	135.34-	175.34	155.34
Average of Peak Amounts =					1.04e+03			
-----								

Data File: /chem/ecob8a.i/021210.b/021b2101.d

Date : 12-FEB-2010 10:56

Client ID: RR166002

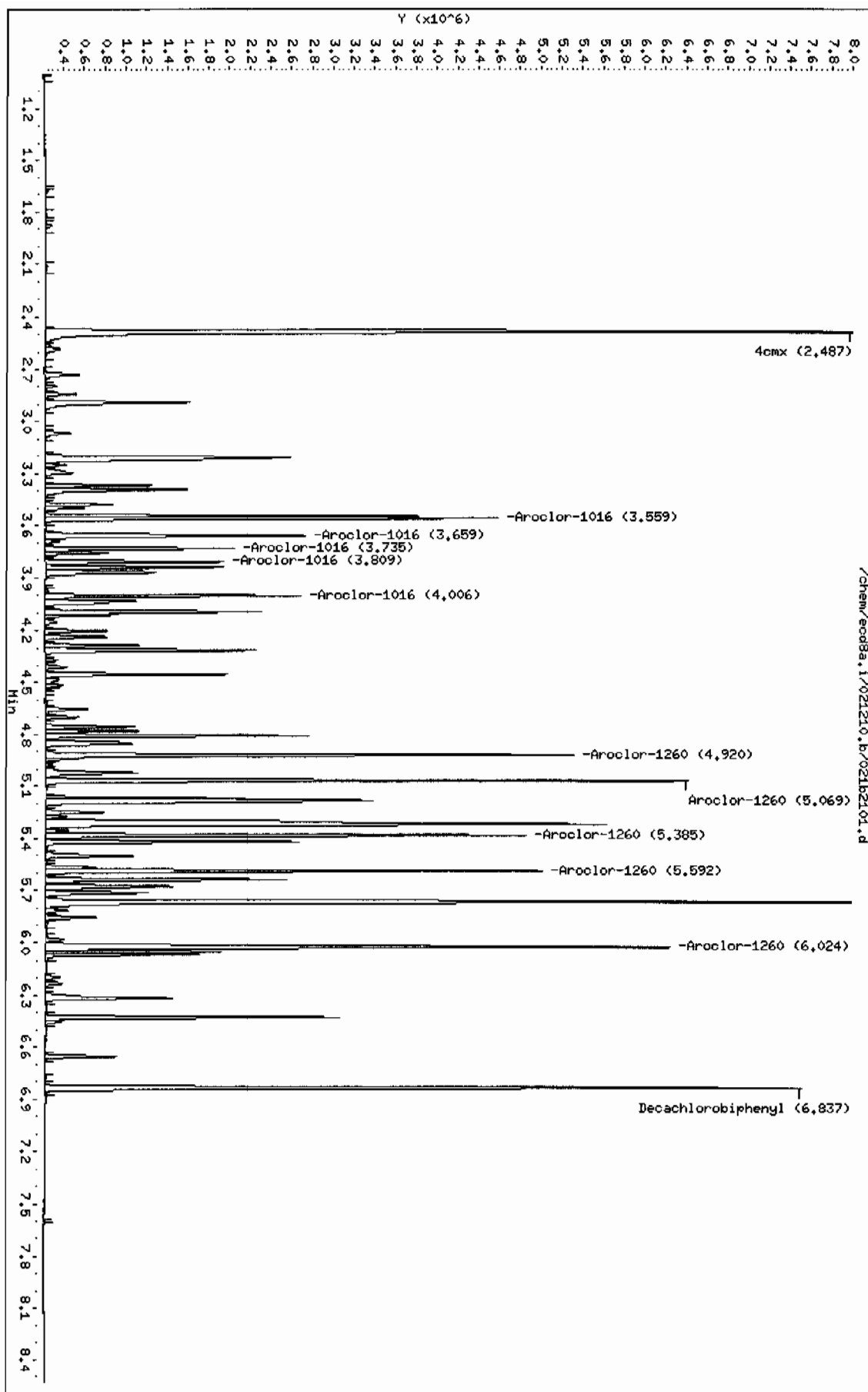
Sample Info: MAR100203-60 02

Column phase: CLP2

Instrument: ecob8a.i

Operator: JROC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/033f3301.d  
Lab Smp Id: WAR100203-60 03 Client Smp ID: AR166003  
Inj Date : 12-FEB-2010 13:25  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100203-60 03  
Misc Info : |1660  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 13:38 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 33 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			
2.254	2.252	0.002	13695220	100.000	104	80.00~ 120.00	100.00	
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.246	6.245	0.001	9954626	100.000	99.6	80.00~ 120.00	100.00 (M)	
-----								
1 Aroclor-1016					CAS #: 12674-11-2			
2.811	2.811	0.000	4529687	1000.00	971	80.00~ 120.00	100.00 (M)	
3.164	3.163	0.001	5840240	1000.00	1010	108.93~ 148.93	128.93	
3.307	3.306	0.001	2398191	1000.00	977	32.94~ 72.94	52.94	
3.399	3.399	0.000	2140017	1000.00	974	27.24~ 67.24	47.24	
3.561	3.561	0.000	3094078	1000.00	985	48.31~ 88.31	68.31	
Average of Peak Amounts =					984			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.436	4.435	0.001	6514014	1000.00	967	80.00~ 120.00	100.00 (M)	
4.631	4.631	0.000	9893168	1000.00	964	131.88~ 171.88	151.88	
4.906	4.906	0.000	5932698	1000.00	968	71.08~ 111.08	91.08	
5.079	5.078	0.001	6337042	1000.00	992	77.28~ 117.28	97.28	
5.490	5.490	0.000	7304897	1000.00	1060	92.14~ 132.14	112.14	
Average of Peak Amounts =					991			
-----								

Data File: /chem/ecd8a.i/021210.b/033f3301.d  
Report Date: 12-Feb-2010 13:38

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#### QC Flag Legend

M - Compound response manually integrated.



Data File: /chem/ecod8a.i/021210.b/033f3301.d

Date: 12-FEB-2010 13:25

Client ID: AR166003

Sample Info: IWA100203-60 03

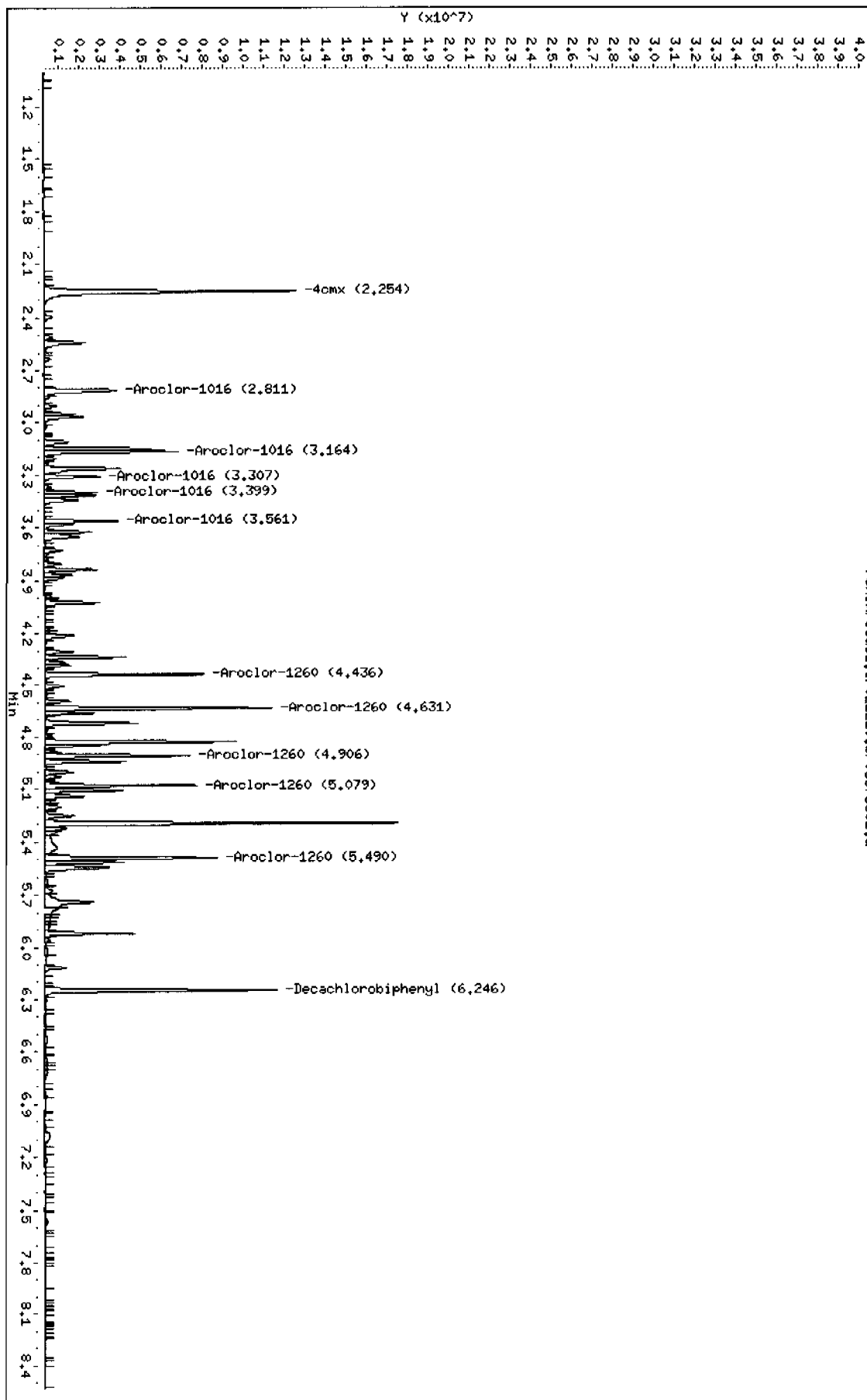
Column phase: CLP1

Instrument: ecod8a.i

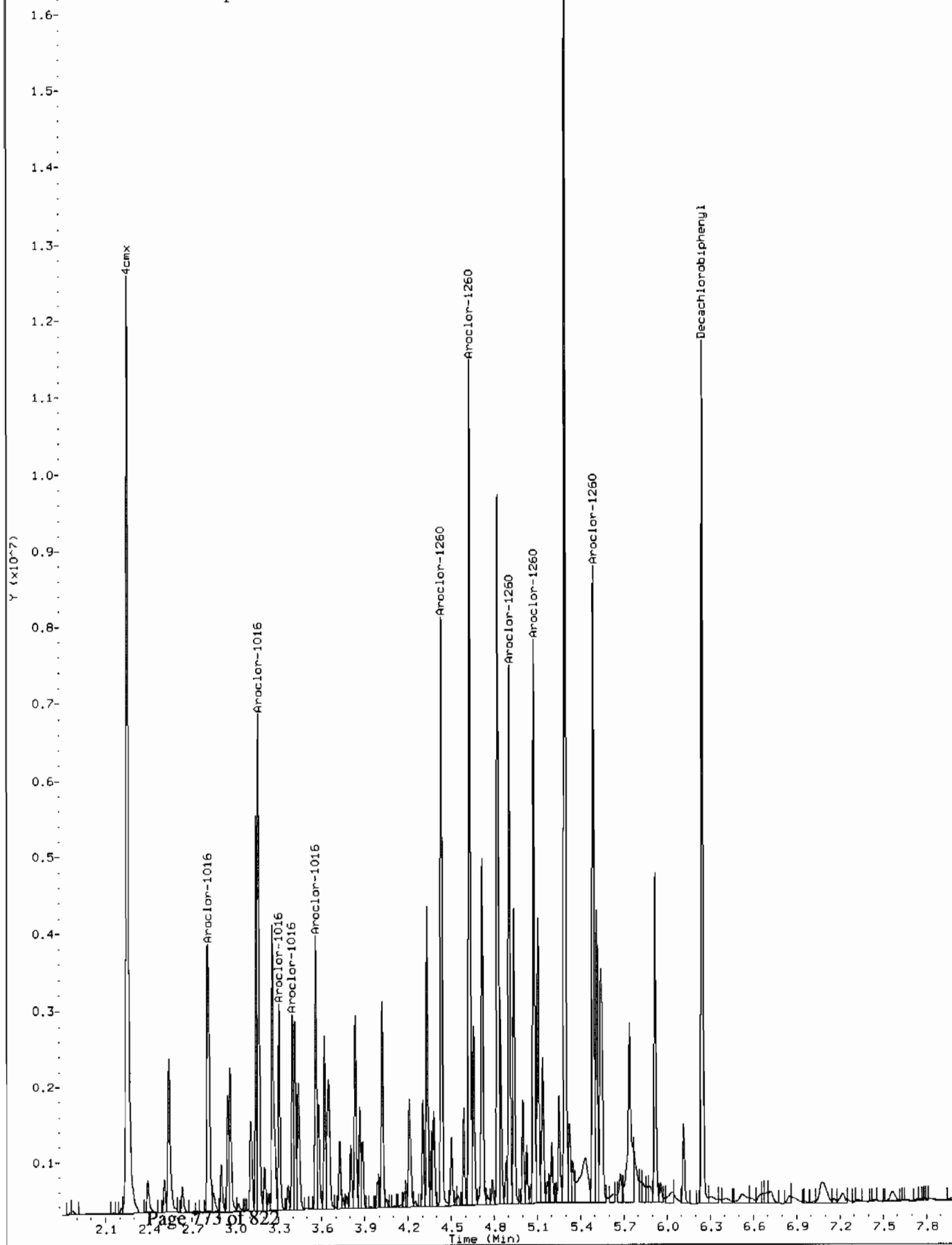
Operator: JADC

Column diameter: 0.25

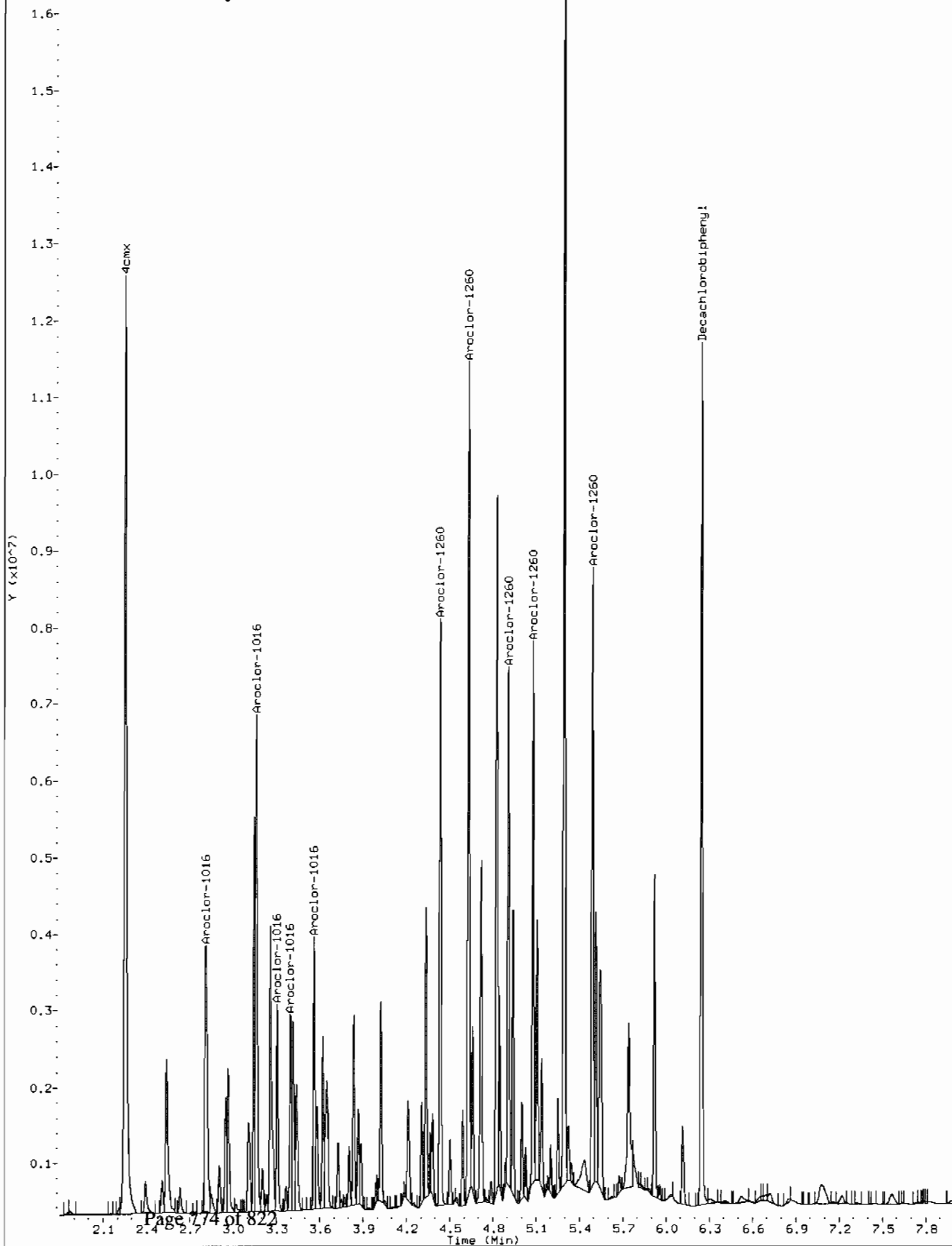
/chem/ecod8a.i/021210.b/033f3301.d



Comment: Manually Integrated  
Data File: /chem/ecd8a.i/021210.b/033f3301.d  
Operator: JAOC  
Injection Date: 12-FEB-2010 13:25  
Instrument: ecd8a.i  
Client Sample ID: AR166003



Comment: Before manual integration  
Data File: /chem/ecd8a.i/021210.b/orig-033f3301.d  
Operator: JAOC  
Injection Date: 12-FEB-2010 13:25  
Instrument: ecd8a.i  
Client Sample ID: AR166003



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/033b3301.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 12-FEB-2010 13:25

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100203-60 03

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m

Meth Date : 12-Feb-2010 13:38 jen01212

Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036b3601.d

Als bottle: 33

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			
2.486	2.486	0.000	8757241	100.000	101	80.00-	120.00	100.00
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.836	6.836	0.000	7592550	100.000	117	80.00-	120.00	100.00 (M)
-----								
1 Aroclor-1016					CAS #: 12674-11-2			
3.559	3.558	0.001	3869768	1000.00	1030	80.00-	120.00	100.00 (M)
3.659	3.658	0.001	2493274	1000.00	1000	44.43-	84.43	64.43
3.735	3.734	0.001	1605277	1000.00	1060	21.48-	61.48	41.48
3.810	3.809	0.001	1415340	1000.00	948	16.57-	56.57	36.57
4.006	4.006	0.000	1922083	1000.00	944	29.67-	69.67	49.67
Average of Peak Amounts =					996			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.920	4.919	0.001	4276875	1000.00	1050	80.00-	120.00	100.00 (M)
5.068	5.068	0.000	5145887	1000.00	1040	100.32-	140.32	120.32
5.385	5.384	0.001	4664119	1000.00	1230	89.05-	129.05	109.05
5.591	5.591	0.000	4133683	1000.00	1040	76.65-	116.65	96.65
6.023	6.023	0.000	7602227	1000.00	1220	157.75-	197.75	177.75
Average of Peak Amounts =					1.12e+03			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdb8a.i/021210.b/033b3301.d

Date: 12-FEB-2010 13:25

Client ID: AR166003

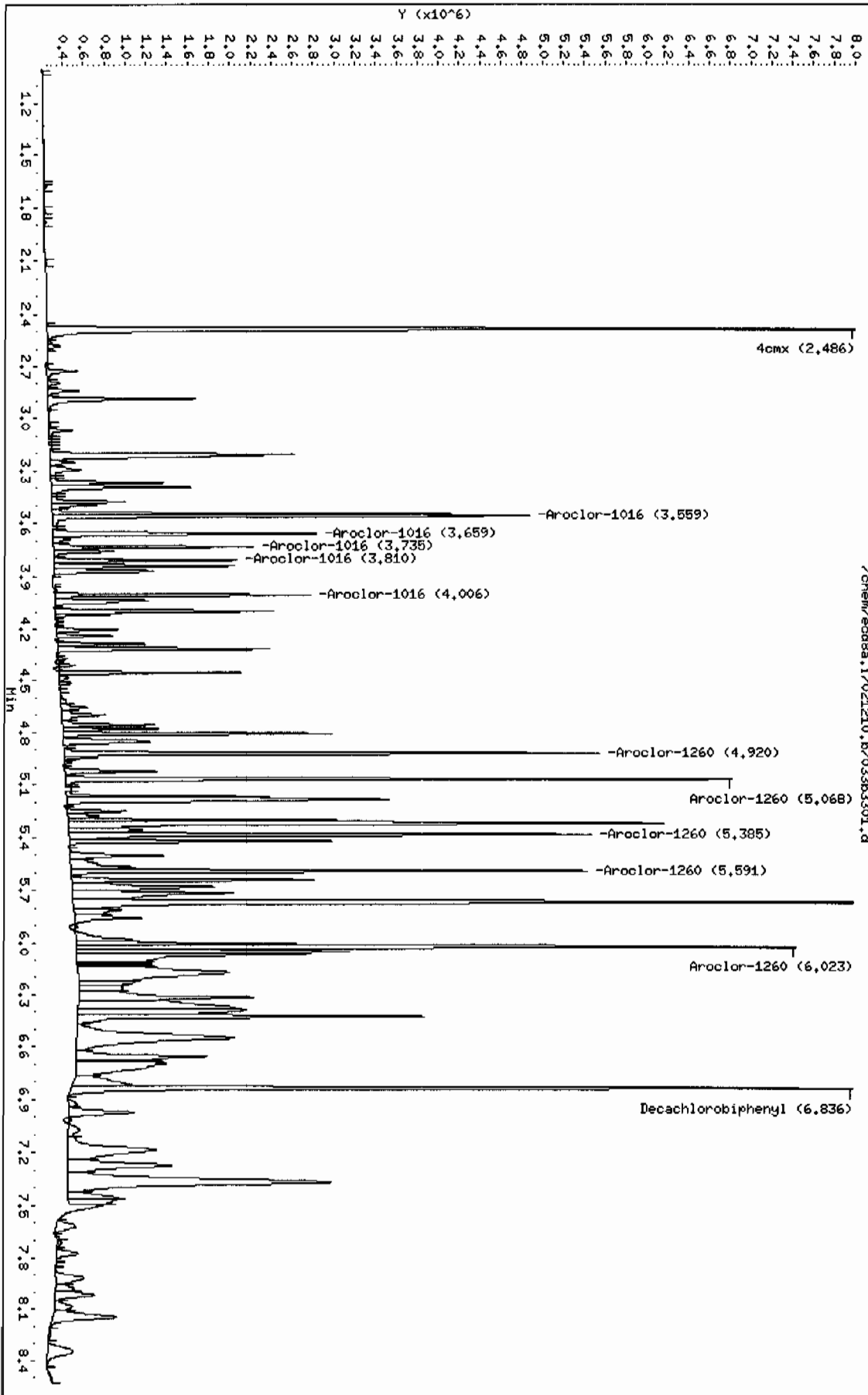
Sample Info: 1MAR100203-60 03

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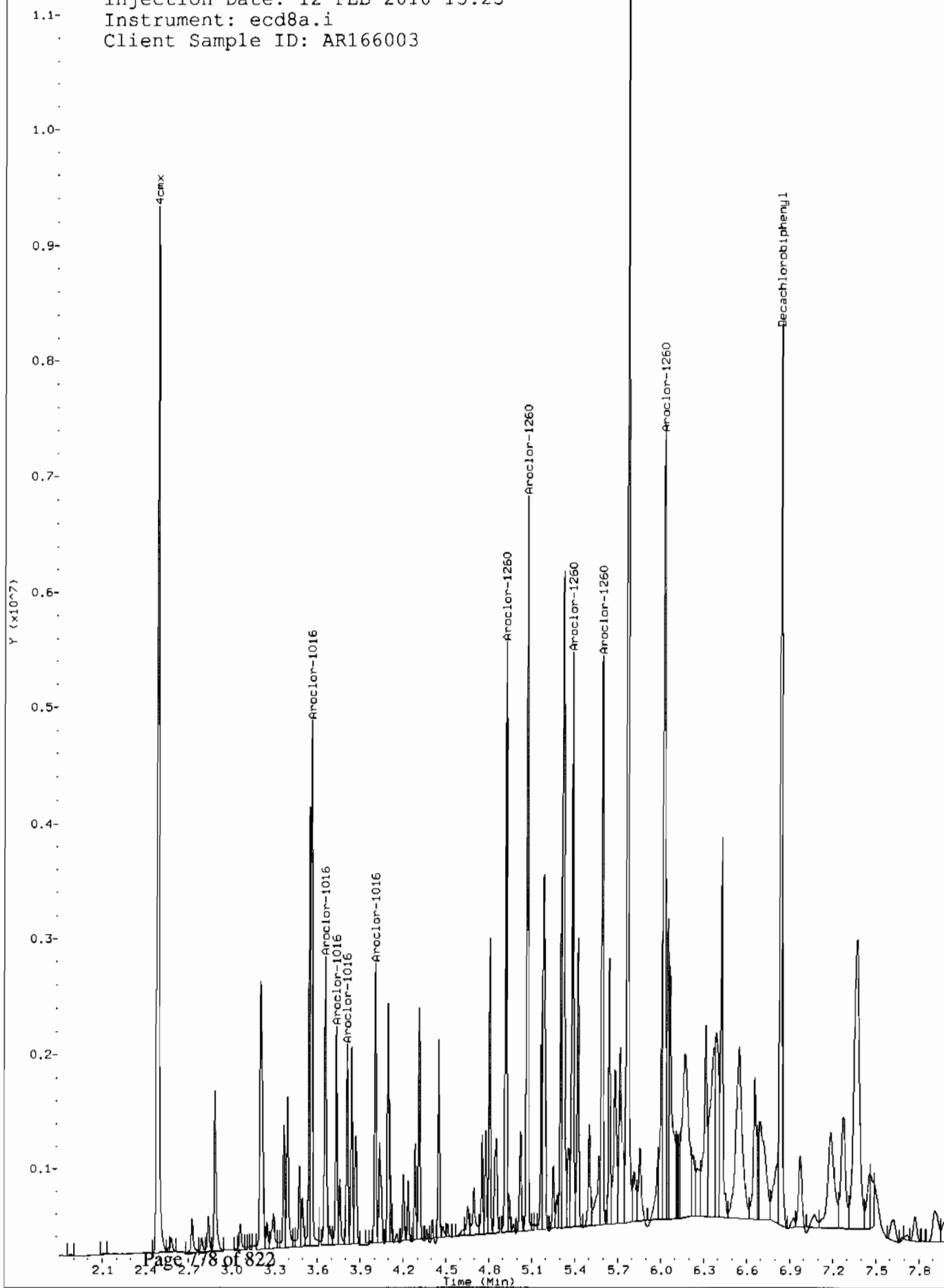
Instrument: ecdb8a.i

Column phase: CLP2

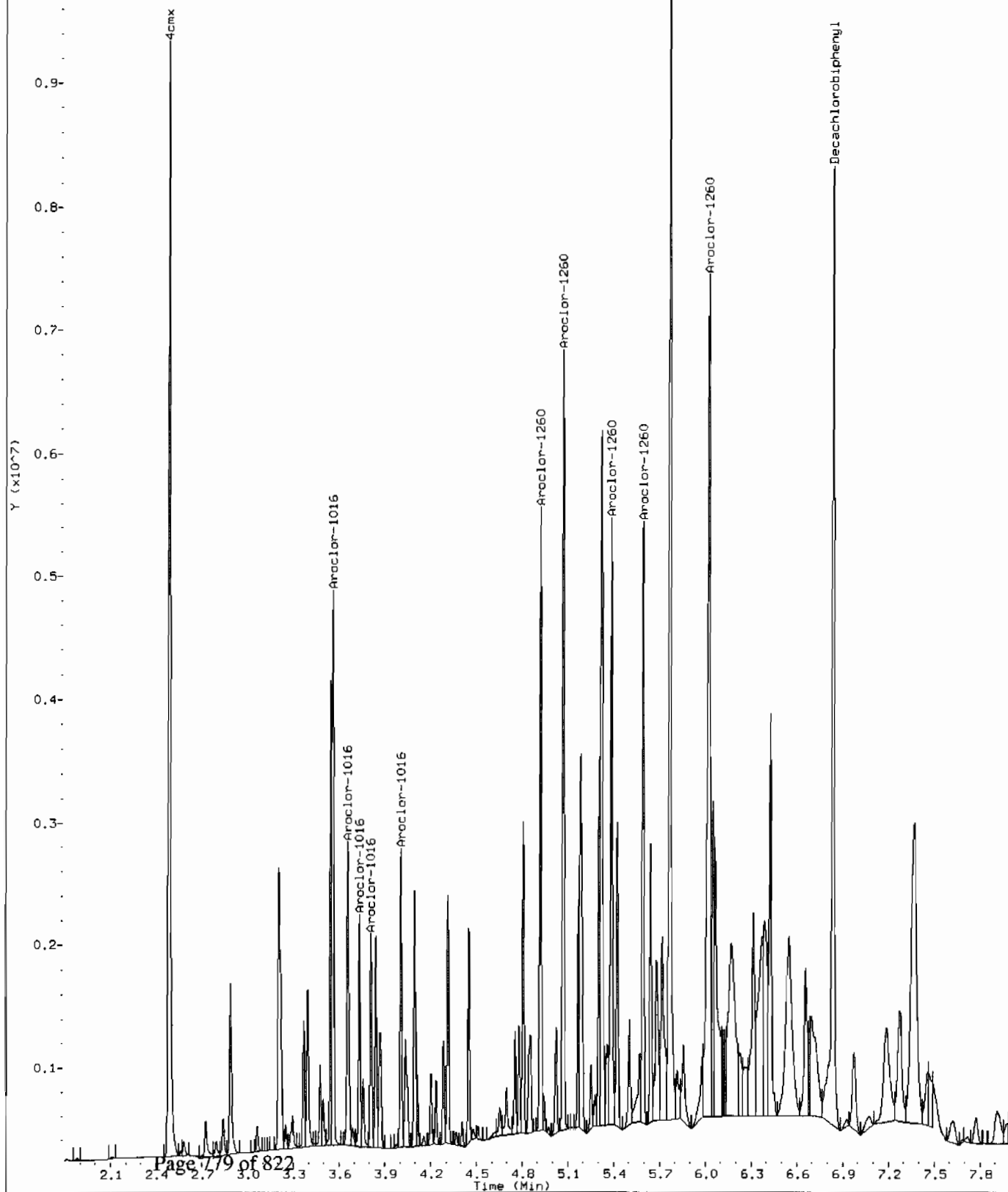
Operator: JHOC  
Column diameter: 0.25



Comment: Manually Integrated  
Data File: /chem/ecd8a.i/021210.b/033b3301.d  
Operator: JAOC  
Injection Date: 12-FEB-2010 13:25  
Instrument: ecd8a.i  
Client Sample ID: AR166003



Comment: Before manual integration  
Data File: /chem/ecd8a.i/021210.b/orig-033b8301.d  
Operator: JAOC  
Injection Date: 12-FEB-2010 13:25  
Instrument: ecd8a.i  
Client Sample ID: AR166003





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.: 10-1564

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.26			DCB: 6.25		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	02/03/10	1012	2.25
02	AR166001	WAR100203-01	02/03/10	1024	2.26
03	AR166002	WAR100203-02	02/03/10	1037	2.26
04	AR166003	WAR100203-03	02/03/10	1049	2.26
05	AR166004	WAR100203-04	02/03/10	1101	2.26
06	AR166005	IAR100104-01	02/03/10	1114	2.26
07	AR166001	WAR100203-60	02/03/10	1126	2.26
08	AR125401	WAR100203-05	02/03/10	1139	
09	AR125402	WAR100203-06	02/03/10	1151	
10	AR125403	WAR100203-07	02/03/10	1203	
11	AR125404	WAR100203-08	02/03/10	1216	
12	AR125405	IAR091027-01	02/03/10	1228	
13	AR125401	WAR091216-54	02/03/10	1240	
14	AR124201	WAR100203-09	02/03/10	1253	
15	AR124202	WAR100203-10	02/03/10	1305	
16	AR124203	WAR100203-11	02/03/10	1318	
17	AR124204	WAR100203-12	02/03/10	1330	
18	AR124205	IAR091111-01	02/03/10	1342	
19	AR124201	WAR091217-42	02/03/10	1355	
20	AR124801	WAR100203-13	02/03/10	1407	
21	AR124802	WAR100203-14	02/03/10	1419	
22	AR124803	WAR100203-15	02/03/10	1432	
23	AR124804	WAR100203-16	02/03/10	1444	
24	AR124805	IAR091027-02	02/03/10	1457	
25	AR124801	WAR091217-48	02/03/10	1509	
26	AR123201	WAR100104-32	02/03/10	1521	
27	AR122101	WAR100104-21	02/03/10	1534	
28	AR126201	WAR100203-17	02/03/10	1546	
29	AR126202	WAR100203-18	02/03/10	1558	
30	AR126203	WAR100203-19	02/03/10	1611	
31	AR126204	WAR100203-20	02/03/10	1623	
32	AR126205	IAR100104-04	02/03/10	1636	

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.: 10-1564

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.26			DCB: 6.25			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	AR126201	WAR100104-62	02/03/10	1648		
02	AR126801	WAR091107-68	02/03/10	1700		
03	AR124801	WAR091217-48	02/03/10	1713		
04	DDTANALOGSTD	WAR091219-DD	02/03/10	1725		
05	PIBLK02	WAR091130-99	02/03/10	1738	2.26	6.25
06	ZZZZZ	ZZZZZ	02/03/10	1750	2.26	6.25
07	ZZZZZ	ZZZZZ	02/03/10	1802	2.26	6.25
08	ZZZZZ	ZZZZZ	02/03/10	1815	2.26	6.25
09	ZZZZZ	ZZZZZ	02/03/10	1827	2.26	6.25
10	ZZZZZ	ZZZZZ	02/03/10	1839	2.26	6.25
11	ZZZZZ	ZZZZZ	02/03/10	1852	2.26	6.25
12	ZZZZZ	ZZZZZ	02/03/10	1904	2.26	6.25
13	ZZZZZ	ZZZZZ	02/03/10	1916	2.26	6.25
14	ZZZZZ	ZZZZZ	02/03/10	1929	2.26	6.25
15	ZZZZZ	ZZZZZ	02/03/10	1941	2.26	6.25
16	AR166002	WAR100203-60	02/03/10	1954	2.26	6.25
17	PIBLK03	WAR091130-99	02/03/10	2006	2.26	6.25
18	ZZZZZ	ZZZZZ	02/03/10	2018	2.26	6.25
19	ZZZZZ	ZZZZZ	02/03/10	2031	2.26	6.25
20	ZZZZZ	ZZZZZ	02/03/10	2043	2.26	6.25
21	ZZZZZ	ZZZZZ	02/03/10	2055	2.26	6.25
22	AR166003	WAR100203-60	02/03/10	2108	2.26	6.25
23	PIBLK04	WAR091130-99	02/03/10	2120	2.26	6.25
24	ZZZZZ	ZZZZZ	02/03/10	2133	2.26	6.25
25	ZZZZZ	ZZZZZ	02/03/10	2145	2.26	6.25
26	ZZZZZ	ZZZZZ	02/03/10	2157	2.26	6.25
27	AR166004	WAR100203-60	02/03/10	2210	2.26	6.25
28	PIBLK05	WAR091130-99	02/03/10	2222	2.26	6.25
29	ZZZZZ	ZZZZZ	02/03/10	2234	2.26	6.25
30	ZZZZZ	ZZZZZ	02/03/10	2247	2.26	6.25
31	ZZZZZ	ZZZZZ	02/03/10	2259		
32	ZZZZZ	ZZZZZ	02/03/10	2312		

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

page 2 of 2

FORM VIII PEST

OLM03.0

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1564

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.49				DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #		
01	PIBLK01	WAR091130-99	02/03/10	1012	2.49	6.84	
02	AR166001	WAR100203-01	02/03/10	1024	2.49	6.84	
03	AR166002	WAR100203-02	02/03/10	1037	2.49	6.84	
04	AR166003	WAR100203-03	02/03/10	1049	2.49	6.84	
05	AR166004	WAR100203-04	02/03/10	1101	2.49	6.84	
06	AR166005	IAR100104-01	02/03/10	1114	2.49	6.84	
07	AR166001	WAR100203-60	02/03/10	1126	2.49	6.84	
08	AR125401	WAR100203-05	02/03/10	1139			
09	AR125402	WAR100203-06	02/03/10	1151			
10	AR125403	WAR100203-07	02/03/10	1203			
11	AR125404	WAR100203-08	02/03/10	1216			
12	AR125405	IAR091027-01	02/03/10	1228			
13	AR125401	WAR091216-54	02/03/10	1240			
14	AR124201	WAR100203-09	02/03/10	1253			
15	AR124202	WAR100203-10	02/03/10	1305			
16	AR124203	WAR100203-11	02/03/10	1318			
17	AR124204	WAR100203-12	02/03/10	1330			
18	AR124205	IAR091111-01	02/03/10	1342			
19	AR124201	WAR091217-42	02/03/10	1355			
20	AR124801	WAR100203-13	02/03/10	1407			
21	AR124802	WAR100203-14	02/03/10	1419			
22	AR124803	WAR100203-15	02/03/10	1432			
23	AR124804	WAR100203-16	02/03/10	1444			
24	AR124805	IAR091027-02	02/03/10	1457			
25	AR124801	WAR091217-48	02/03/10	1509			
26	AR123201	WAR100104-32	02/03/10	1521			
27	AR122101	WAR100104-21	02/03/10	1534			
28	AR126201	WAR100203-17	02/03/10	1546			
29	AR126202	WAR100203-18	02/03/10	1558			
30	AR126203	WAR100203-19	02/03/10	1611			
31	AR126204	WAR100203-20	02/03/10	1623			
32	AR126205	IAR100104-04	02/03/10	1636			

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.: 10-1564

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.49		DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR126201	WAR100104-62	02/03/10 1648		
02	AR126801	WAR091107-68	02/03/10 1700		
03	AR124801	WAR091217-48	02/03/10 1713		
04	DDTANALOGSTD	WAR091219-DD	02/03/10 1725		
05	PIBLK02	WAR091130-99	02/03/10 1738	2.49	6.84
06	ZZZZZ	ZZZZZ	02/03/10 1750	2.49	6.84
07	ZZZZZ	ZZZZZ	02/03/10 1802	2.49	6.84
08	ZZZZZ	ZZZZZ	02/03/10 1815	2.49	6.84
09	ZZZZZ	ZZZZZ	02/03/10 1827	2.49	6.84
10	ZZZZZ	ZZZZZ	02/03/10 1839	2.49	6.84
11	ZZZZZ	ZZZZZ	02/03/10 1852	2.49	6.84
12	ZZZZZ	ZZZZZ	02/03/10 1904	2.49	6.84
13	ZZZZZ	ZZZZZ	02/03/10 1916	2.49	6.84
14	ZZZZZ	ZZZZZ	02/03/10 1929	2.49	6.84
15	ZZZZZ	ZZZZZ	02/03/10 1941	2.49	6.84
16	AR166002	WAR100203-60	02/03/10 1954	2.49	6.84
17	PIBLK03	WAR091130-99	02/03/10 2006	2.49	6.84
18	ZZZZZ	ZZZZZ	02/03/10 2018	2.49	6.84
19	ZZZZZ	ZZZZZ	02/03/10 2031	2.49	6.84
20	ZZZZZ	ZZZZZ	02/03/10 2043	2.49	6.84
21	ZZZZZ	ZZZZZ	02/03/10 2055	2.49	6.84
22	AR166003	WAR100203-60	02/03/10 2108	2.49	6.84
23	PIBLK04	WAR091130-99	02/03/10 2120	2.49	6.84
24	ZZZZZ	ZZZZZ	02/03/10 2133	2.49	6.84
25	ZZZZZ	ZZZZZ	02/03/10 2145	2.49	6.84
26	ZZZZZ	ZZZZZ	02/03/10 2157	2.49	6.84
27	AR166004	WAR100203-60	02/03/10 2210	2.49	6.84
28	PIBLK05	WAR091130-99	02/03/10 2222	2.49	6.84
29	ZZZZZ	ZZZZZ	02/03/10 2234	2.49	6.84
30	ZZZZZ	ZZZZZ	02/03/10 2247	2.49	6.84
31	ZZZZZ	ZZZZZ	02/03/10 2259		
32	ZZZZZ	ZZZZZ	02/03/10 2312		

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

page 2 of 2

FORM VIII PEST

OLM03.0

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1564

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

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	WAR100105-99	02/12/10 0649	2.25	6.24
02	AR166001	WAR100203-60	02/12/10 0702	2.25	6.24
03	AR125401	WAR100201-54	02/12/10 0714		
04	AR124201	WAR091217-42	02/12/10 0726		
05	AR124801	WAR091217-48	02/12/10 0738		
06	AR123201	WAR100104-32	02/12/10 0751		
07	AR122101	WAR100104-21	02/12/10 0803		
08	AR126201	WAR100104-62	02/12/10 0816		
09	AR126801	WAR100107-68	02/12/10 0828		
10	DDTANALOGSTD	WAR091219-DD	02/12/10 0840		
11	PIBLK02	WAR100105-99	02/12/10 0853	2.25	6.25
12	PBLK01	1202040223	02/12/10 0905	2.25	6.25
13	PBLK01LCS	1202040224	02/12/10 0918	2.25	6.25
14	ZZZZZ	ZZZZZ	02/12/10 0930	2.26	6.25
15	ZZZZZ	ZZZZZ	02/12/10 0942	2.26	6.25
16	ZZZZZ	ZZZZZ	02/12/10 0955	2.25	6.25
17	ZZZZZ	ZZZZZ	02/12/10 1007	2.25	6.24
18	ZZZZZ	ZZZZZ	02/12/10 1019	2.25	6.25
19	ZZZZZ	ZZZZZ	02/12/10 1032	2.25	6.25
20	ZZZZZ	ZZZZZ	02/12/10 1044	2.25	6.25
21	AR166002	WAR100203-60	02/12/10 1056	2.25	6.25
22	PIBLK03	WAR100105-99	02/12/10 1109	2.26	6.25
23	RE15-10-7332	246318001	02/12/10 1121	2.25	6.25
24	RE15-10-7333	246318002	02/12/10 1134	2.26	6.25
25	RE15-10-7342	246318003	02/12/10 1146	2.25	6.25
26	ZZZZZ	ZZZZZ	02/12/10 1158	2.25	6.24
27	ZZZZZ	ZZZZZ	02/12/10 1211	2.25	6.25
28	ZZZZZ	ZZZZZ	02/12/10 1223	2.25	6.25
29	ZZZZZ	ZZZZZ	02/12/10 1235	2.25	6.25
30	ZZZZZ	ZZZZZ	02/12/10 1248	2.25	6.25
31	ZZZZZ	ZZZZZ	02/12/10 1300	2.25	6.25
32	ZZZZZ	ZZZZZ	02/12/10 1313	2.25	6.25

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.: 10-1564

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

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	AR166003	WAR100203-60	02/12/10	1325	2.25 6.25
02	PIBLK04	WAR100105-99	02/12/10	1337	2.25 6.25
03	ZZZZZ	ZZZZZ	02/12/10	1350	2.25 6.24
04	ZZZZZ	ZZZZZ	02/12/10	1402	2.25 6.24
05	ZZZZZ	ZZZZZ	02/12/10	1414	2.25 6.25
06	ZZZZZ	ZZZZZ	02/12/10	1427	2.25 6.25
07	ZZZZZ	ZZZZZ	02/12/10	1439	2.25 6.25
08	ZZZZZ	ZZZZZ	02/12/10	1451	2.25 6.25
09	AR166004	WAR100203-60	02/12/10	1504	2.25 6.25
10	PIBLK05	WAR100105-99	02/12/10	1516	2.25 6.25
11					
12					
13					
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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.: 10-1564

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.49			DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
=====	=====	=====	=====	=====	=====	=====
01 PIBLK01	WAR100105-99	02/12/10	0649	2.48		6.83
02 AR166001	WAR100203-60	02/12/10	0702	2.49		6.84
03 AR125401	WAR100201-54	02/12/10	0714			
04 AR124201	WAR091217-42	02/12/10	0726			
05 AR124801	WAR091217-48	02/12/10	0738			
06 AR123201	WAR100104-32	02/12/10	0751			
07 AR122101	WAR100104-21	02/12/10	0803			
08 AR126201	WAR100104-62	02/12/10	0816			
09 AR126801	WAR100107-68	02/12/10	0828			
10 DDTANALOGSTD	WAR091219-DD	02/12/10	0840			
11 PIBLK02	WAR100105-99	02/12/10	0853	2.49		6.84
12 PBLK01	1202040223	02/12/10	0905	2.49		6.84
13 PBLK01LCS	1202040224	02/12/10	0918	2.49		6.84
14 ZZZZZ	ZZZZZ	02/12/10	0930	2.49		6.84
15 ZZZZZ	ZZZZZ	02/12/10	0942	2.49		6.84
16 ZZZZZ	ZZZZZ	02/12/10	0955	2.49		6.84
17 ZZZZZ	ZZZZZ	02/12/10	1007	2.49		6.84
18 ZZZZZ	ZZZZZ	02/12/10	1019	2.49		6.84
19 ZZZZZ	ZZZZZ	02/12/10	1032	2.49		6.84
20 ZZZZZ	ZZZZZ	02/12/10	1044	2.49		6.84
21 AR166002	WAR100203-60	02/12/10	1056	2.49		6.84
22 PIBLK03	WAR100105-99	02/12/10	1109	2.49		6.84
23 RE15-10-7332	246318001	02/12/10	1121	2.49		6.84
24 RE15-10-7333	246318002	02/12/10	1134	2.49		6.84
25 RE15-10-7342	246318003	02/12/10	1146	2.49		6.84
26 ZZZZZ	ZZZZZ	02/12/10	1158	2.49		6.84
27 ZZZZZ	ZZZZZ	02/12/10	1211	2.49		6.84
28 ZZZZZ	ZZZZZ	02/12/10	1223	2.49		6.84
29 ZZZZZ	ZZZZZ	02/12/10	1235	2.49		6.84
30 ZZZZZ	ZZZZZ	02/12/10	1248	2.49		6.84
31 ZZZZZ	ZZZZZ	02/12/10	1300	2.49		6.84
32 ZZZZZ	ZZZZZ	02/12/10	1313	2.49		6.84

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.: 10-1564

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.49			DCB: 6.84		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR166003	WAR100203-60	02/12/10	1325	2.49 6.84
02	PIBLK04	WAR100105-99	02/12/10	1337	2.49 6.84
03	ZZZZZ	ZZZZZ	02/12/10	1350	2.49 6.84
04	ZZZZZ	ZZZZZ	02/12/10	1402	2.49 6.84
05	ZZZZZ	ZZZZZ	02/12/10	1414	2.49 6.84
06	ZZZZZ	ZZZZZ	02/12/10	1427	2.49 6.84
07	ZZZZZ	ZZZZZ	02/12/10	1439	2.49 6.84
08	ZZZZZ	ZZZZZ	02/12/10	1451	2.49 6.84
09	AR166004	WAR100203-60	02/12/10	1504	2.49 6.84
10	PIBLK05	WAR100105-99	02/12/10	1516	2.49 6.84
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

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: 10-1564

Client ID: LCS for batch 951941

Lab Sample ID: 1202040224

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD8A.I\_1

Inst: ECD8A.I\_2

Column: CLP1

Column: CLP2

Analyzed: 12-FEB-10 09:18

Analyzed: 12-FEB-10 09:18

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
<b>Aroclor-1016</b>							.119
<i>Column 1</i>	1	2.81	2.78 - 2.84	19.3		ug/kg	
	2	3.16	3.13 - 3.19	18.6		ug/kg	
	3	3.31	3.28 - 3.34	17.8		ug/kg	
	4	3.4	3.37 - 3.43	18.8		ug/kg	
	5	3.56	3.53 - 3.59	18.4		ug/kg	
					18.6		
<i>Column 2</i>	1	3.56	3.53 - 3.59	18.3		ug/kg	
	2	3.66	3.63 - 3.69	19.4		ug/kg	
	3	3.73	3.7 - 3.76	17.8		ug/kg	
	4	3.81	3.78 - 3.84	18.6		ug/kg	
	5	4.01	3.98 - 4.04	18.7		ug/kg	
					18.6		
<b>Aroclor-1260</b>							8.76
<i>Column 1</i>	1	4.44	4.4 - 4.46	19.6		ug/kg	
	2	4.63	4.6 - 4.66	20		ug/kg	
	3	4.91	4.88 - 4.94	20.8		ug/kg	
	4	5.08	5.05 - 5.11	21.1		ug/kg	
	5	5.49	5.46 - 5.52	22.7		ug/kg	
					20.8		
<i>Column 2</i>	1	4.92	4.89 - 4.95	21.9		ug/kg	
	2	5.07	5.04 - 5.1	22.5		ug/kg	
	3	5.38	5.35 - 5.41	23		ug/kg	
	4	5.59	5.56 - 5.62	22.6		ug/kg	
	5	6.02	5.99 - 6.05	23.7		ug/kg	
					22.8		

# QUALITY CONTROL DATA

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

Page 1 of 1

SDG Number: 10-1564

Lab Sample ID: 1202040223

Client Sample: QC for batch 951941

Client ID: MB for batch 951941

Batch ID: 951946

Run Date: 02/12/2010 09:05

Prep Date: 02/11/2010 22:01

Data File: 012f1201-1.d

012b1201-1.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	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecd8a.i/021210.b/012f1201-2.d  
Report Date: 18-Feb-2010 10:47

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/012f1201-2.d  
Lab Smp Id: 1202040223 Client Smp ID: PBLK01  
Inj Date : 12-FEB-2010 09:05  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202040223|1|  
Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|MB|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 15-Feb-2010 06:50 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 12 QC Sample: BLANK  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.sub  
Target Version: 3.50 Sample Matrix: Soil  
Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.254	2.252	0.002	16792727	127.793	4.2 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.246	6.245	0.001	13359652	133.621	4.4 80.00- 120.00	100.00	
-----							

Data File: /chem/ecod8a.i/021210.bv/012f1201-2.d

Date: 12-FEB-2010 09:05

Client ID: PLK01

Sample Info: 1120204022311

Volume Injected (uL): 1.0

Column phase: CLP1

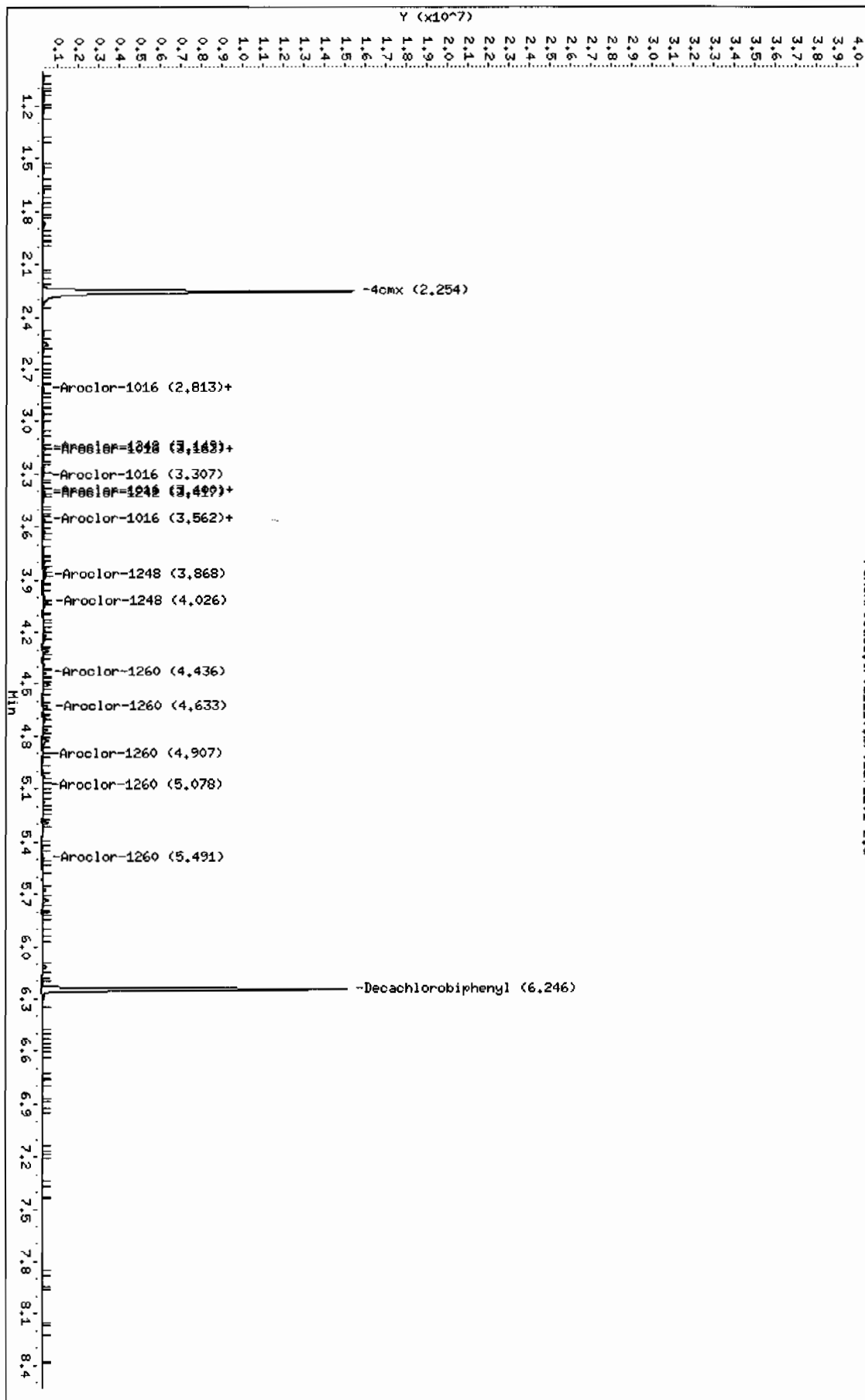
Page 1

Instrument: ecod8a.i

Operator: JAOC

Column diameter: 0.25

/chem/ecod8a.i/021210.bv/012f1201-2.d



Data File: /chem/ecd8a.i/021210.b/012b1201-2.d  
Report Date: 18-Feb-2010 10:46

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/021210.b/012b1201-2.d  
Lab Smp Id: 1202040223 Client Smp ID: PBLK01  
Inj Date : 12-FEB-2010 09:05  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202040223|1|  
Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|MB|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 15-Feb-2010 06:49 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 12 QC Sample: BLANK  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.sub  
Target Version: 3.50 Sample Matrix: Soil  
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

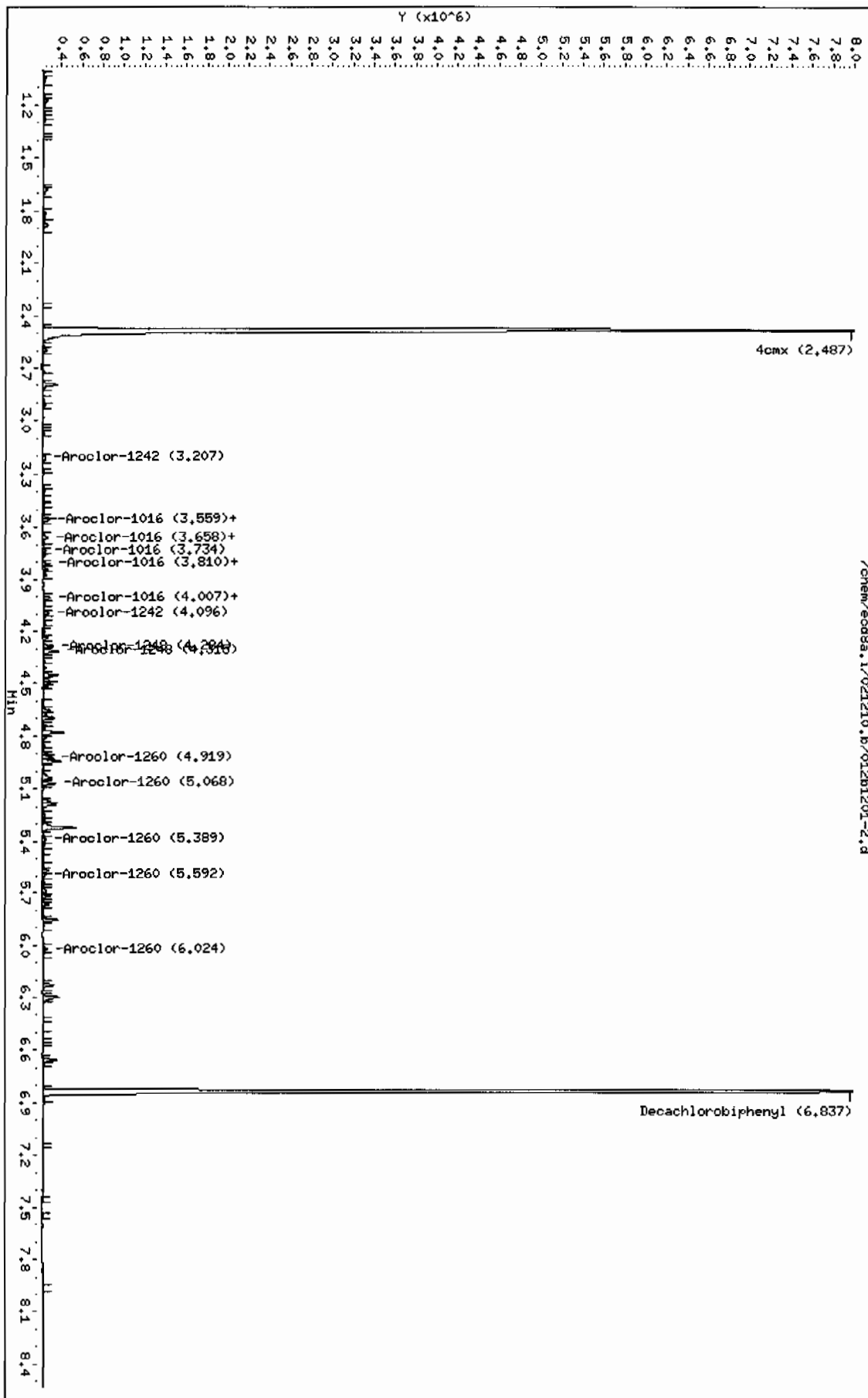
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
2.487	2.486	0.001	11165707 128.573	4.3	80.00~ 120.00	100.00
-----						
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.837	6.836	0.001	9020376 139.109	4.6	80.00~ 120.00	100.00
-----						

Data File: /chem/ec08a.i/021210.b/012b1201-2.d  
 Date: 12-FEB-2010 09:05  
 Client ID: PBLK01  
 Sample Info: 1120204022311  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: ec08a.i  
 Operator: JHOC  
 Column diameter: 0.25

/chem/ec08a.i/021210.b/012b1201-2.d



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

Page 1 of 1

SDG Number: 10-1564

Matrix: SOIL

Lab Sample ID: 1202040224

Client Sample: QC for batch 951941

Client: LANL010

Project: QC

Client ID: LCS for batch 951941

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 951946

Inst: ECD8A.I

Dilution: 1

Run Date: 02/12/2010 09:18

Analyst: JAOC

Inj. Vol: 1 uL

Prep Date: 02/11/2010 22:01

Aliquot: 30 g

Final Volume: 1 mL

Data File: 013f1301-1.d

Column: 1 CLP1

Level: LOW

013b1301-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		18.6	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		22.7	ug/kg	1.11	3.33	2



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/021210.b/013f1301-2.d  
Lab Smp Id: 1202040224 Client Smp ID: PBLK01LCS  
Inj Date : 12-FEB-2010 09:18  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202040224|1|  
Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|LCS|1|  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m  
Meth Date : 12-Feb-2010 11:13 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036f3601.d  
Als bottle: 13 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.sub  
Target Version: 3.50 Sample Matrix: Soil  
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

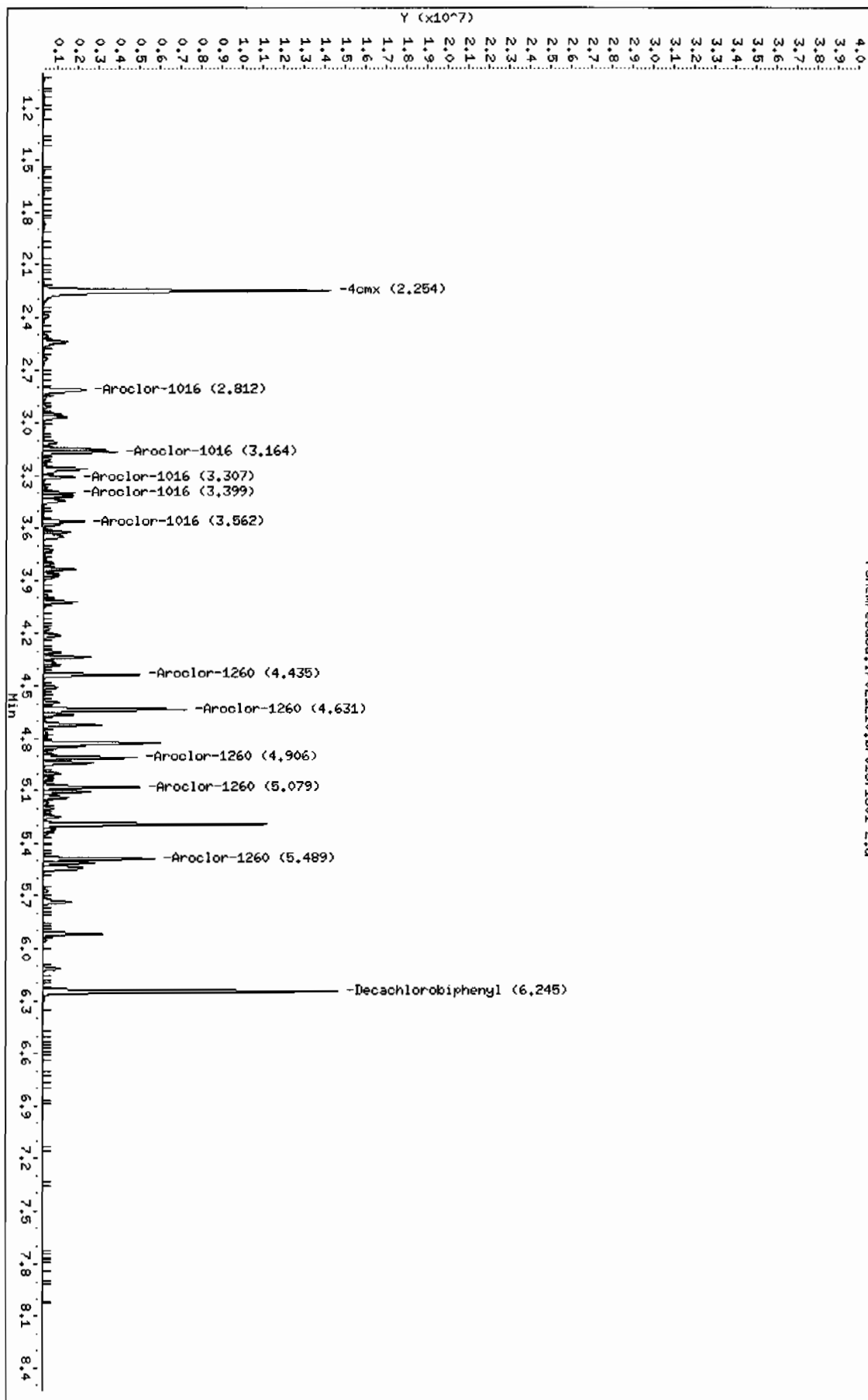
CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.254	2.252	0.002	15865945	120.740	4.0	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.245	6.245	0.000	12800089	128.025	4.3	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.812	2.811	0.001	2707124	580.352	19.3	80.00- 120.00	100.00
3.164	3.163	0.001	3212095	556.729	18.6	98.17- 138.17	118.65
3.307	3.306	0.001	1314074	535.439	17.8	30.98- 70.98	48.54
3.399	3.399	0.000	1238665	563.496	18.8	25.80- 65.80	45.76

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.562	3.561	0.001	1733760	551.774	18.4	45.68-	85.68	64.04
Average of Peak Concentrations =					18.6			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.435	4.435	0.000	3969225	588.996	19.6	80.00-	120.00	100.00
4.631	4.631	0.000	6164661	600.856	20.0	131.83-	171.83	155.31
4.906	4.906	0.000	3821768	623.468	20.8	72.34-	112.34	96.28
5.079	5.078	0.001	4049290	634.102	21.1	79.25-	119.25	102.02
5.489	5.490	-0.001	4662565	679.698	22.6	91.49-	131.49	117.47
Average of Peak Concentrations =					20.8			
-----								

Data File: /chem/ecd8a.i/021210.b/013f1301-2.d  
Date: 12-FEB-2010 09:18  
Client ID: PBLK01LCS  
Sample Info: 1120204022411  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecd8a.i  
Operator: JAOO  
Column diameter: 0.25

/chem/ecd8a.i/021210.b/013f1301-2.d



Data File: /chem/ecd8a.i/021210.b/013b1301-2.d  
Report Date: 12-Feb-2010 13:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/021210.b/013b1301-2.d  
Lab Smp Id: 1202040224 Client Smp ID: PBLK01LCS  
Inj Date : 12-FEB-2010 09:18  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202040224|1|  
Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|LCS|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 12-Feb-2010 11:06 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 13 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1564.sub  
Target Version: 3.50 Sample Matrix: Soil  
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

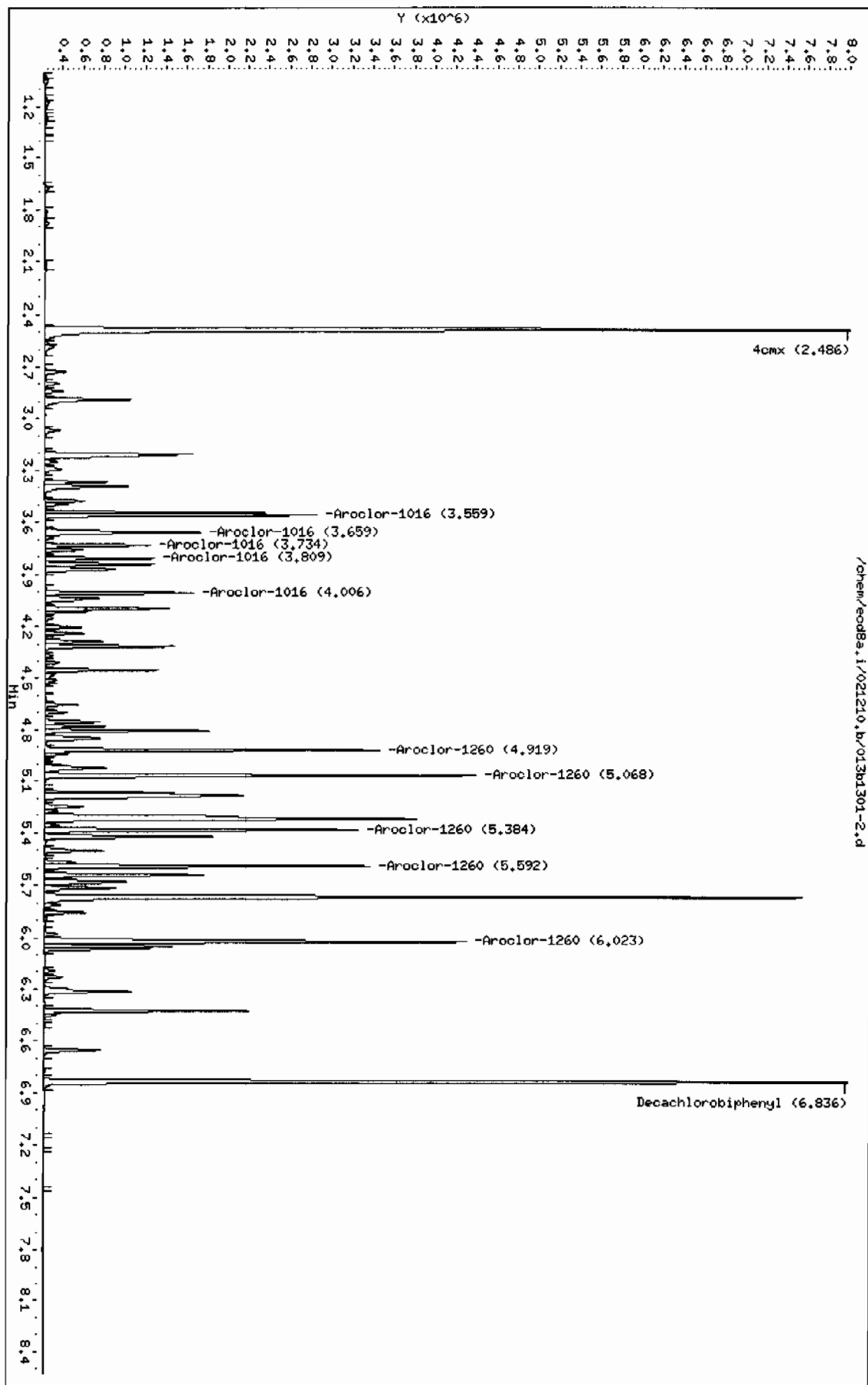
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.486	2.486	0.000	10544249	121.417	4.0	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.836	6.836	0.000	8619569	132.928	4.4	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.559	3.558	0.001	2069472	549.456	18.3	80.00- 120.00	100.00
3.659	3.658	0.001	1448200	580.574	19.4	47.75- 87.75	69.98
3.734	3.734	0.000	810130	534.566	17.8	19.55- 59.55	39.15
3.809	3.809	0.000	835367	559.461	18.6	18.40- 58.40	40.37

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====		=====	=====		=====	
1 Aroclor-1016 (continued)									
4.006	4.006	0.000	1140786	560.413	18.7	33.91-	73.91	55.12	
Average of Peak Concentrations =					18.6				
-----									
7 Aroclor-1260					CAS #: 11096-82-5				
4.919	4.919	0.000	2684257	657.195	21.9	80.00-	120.00	100.00	
5.068	5.068	0.000	3352987	674.794	22.5	101.70-	141.70	124.91	
5.384	5.384	0.000	2616685	690.706	23.0	73.49-	113.49	97.48	
5.592	5.591	0.001	2686088	679.488	22.6	76.84-	116.84	100.07	
6.023	6.023	0.000	4430734	711.486	23.7	135.34-	175.34	165.06	
Average of Peak Concentrations =					22.7				

Data File: /chem/ecod8a.i/021210.b/013b1301-2.d  
Date : 12-FEB-2010 09:18  
Client ID: PLK01LCS  
Sample Info: 1120204022411  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecod8a.i  
Operator: JHOC  
Column diameter: 0.25

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# MISCELLANEOUS DATA

## GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 02/04/2010 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-ACalibration & 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-040EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography  
Sequence Number: /chem/ecd8a.i/020310a.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	JAOC	03-FEB-2010 10:12		020310a	1.01		CLEAN
002f0201.d	WAR100203-01 60	JAOC	03-FEB-2010 10:24		020310a	1.01		1660 LEVEL 1
003f0301.d	WAR100203-02 60	JAOC	03-FEB-2010 10:37		020310a	1.01		1660 LEVEL 2
004f0401.d	WAR100203-03 60	JAOC	03-FEB-2010 10:49		020310a	1.01		1660 LEVEL 3
005f0501.d	WAR100203-04 60	JAOC	03-FEB-2010 11:01		020310a	1.01		1660 LEVEL 4
006f0601.d	WAR100104-01 60	JAOC	03-FEB-2010 11:14		020310a	1.01		1660 LEVEL 5
007f0701.d	WAR100203-60 01	JAOC	03-FEB-2010 11:26		020310a	1.01		PASSES BOTH COLUMNS
008f0801.d	WAR100203-05 54	JAOC	03-FEB-2010 11:39		020310a	1.01		1254 LEVEL 1
009f0901.d	WAR100203-06 54	JAOC	03-FEB-2010 11:51		020310a	1.01		1254 LEVEL 2
010f1001.d	WAR100203-07 54	JAOC	03-FEB-2010 12:03		020310a	1.01		1254 LEVEL 3
011f1101.d	WAR100203-08 54	JAOC	03-FEB-2010 12:16		020310a	1.01		1254 LEVEL 4
012f1201.d	WAR091027-01 54	JAOC	03-FEB-2010 12:28		020310a	1.01		1254 LEVEL 5
013f1301.d	WAR100201-54	JAOC	03-FEB-2010 12:40		020310a	1.01		PASSES BOTH COLUMNS
014f1401.d	WAR100203-09 42	JAOC	03-FEB-2010 12:53		020310a	1.01		1242 LEVEL 1
015f1501.d	WAR100203-10 42	JAOC	03-FEB-2010 13:05		020310a	1.01		1242 LEVEL 2

Instrument Batch: /chem/ecd8a.i/020310a.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100203-11 42	JAOC	03-FEB-2010 13:18		020310a	1.01		1242 LEVEL 3
017f1701.d	WAR100203-12 42	JAOC	03-FEB-2010 13:30		020310a	1.01		1242 LEVEL 4



018f1801.d	IAR091111-01 42	JAO	03-FEB-2010 13:42		020310a	1.01	1242 LEVEL 5
019f1901.d	IAR091217-42	JAO	03-FEB-2010 13:55		020310a	1.01	PASSES BOTH COLUMNS
020f2001.d	IAR100203-13 48	JAO	03-FEB-2010 14:07		020310a	1.01	1248 LEVEL 1
021f2101.d	IAR100203-14 48	JAO	03-FEB-2010 14:19		020310a	1.01	1248 LEVEL 2
022f2201.d	IAR100203-15 48	JAO	03-FEB-2010 14:32		020310a	1.01	1248 LEVEL 3
023f2301.d	IAR100203-16 48	JAO	03-FEB-2010 14:44		020310a	1.01	1248 LEVEL 4
024f2401.d	IAR091027-02 48	JAO	03-FEB-2010 14:57		020310a	1.01	1248 LEVEL 5
025f2501.d	IAR091217-48	JAO	03-FEB-2010 15:09		020310a	1.01	DOSE RE-RUN
026f2601.d	IAR100104-32	JAO	03-FEB-2010 15:21		020310a	1.01	PATTERN ONLY
027f2701.d	IAR100104-21	JAO	03-FEB-2010 15:34		020310a	1.01	PATTERN ONLY
028f2801.d	IAR100203-17 62	JAO	03-FEB-2010 15:46		020310a	1.01	1262 LEVEL 1
029f2901.d	IAR100203-18 62	JAO	03-FEB-2010 15:58		020310a	1.01	1262 LEVEL 2
030f3001.d	IAR100203-19 62	JAO	03-FEB-2010 16:11		020310a	1.01	1262 LEVEL 3
031f3101.d	IAR100203-20 62	JAO	03-FEB-2010 16:23		020310a	1.01	1262 LEVEL 4
032f3201.d	IAR100104-04 62	JAO	03-FEB-2010 16:36		020310a	1.01	1262 LEVEL 5
033f3301.d	IAR100104-62	JAO	03-FEB-2010 16:48		020310a	1.01	PASSES BOTH COLUMNS
034f3401.d	IAR091107-68	JAO	03-FEB-2010 17:00		020310a	1.01	PATTERN ONLY
035f3501.d	IAR091217-48	JAO	03-FEB-2010 17:13		020310a	1.01	PASSES BOTH COLUMNS

Instrument Batch: /chem/ecd8a.i/020310a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	IAR091219-DGT	JAO	03-FEB-2010 17:25		020310a	1.01	DDT	
037f3701.d	IAR091130-99 02	JAO	03-FEB-2010 17:38		020310a	1.01	CLEAN	
038f3801.d	I202026314	JAO	03-FEB-2010 17:50	946047	2010AR1262MDL-L	1.01QC A	UPLOAD BOTH, USE BOTH	
039f3901.d	I202026315	JAO	03-FEB-2010 18:02	946047	2010AR1262MDL-L	1.01QC A	UPLOAD BOTH, USE BOTH	
040f4001.d	I243859001	JAO	03-FEB-2010 18:15	946047	2010AR1262MDL-L	1.01QCQA	UPLOAD BOTH, USE BOTH	
041f4101.d	I243859002	JAO	03-FEB-2010 18:27	946047	2010AR1262MDL-L	1.01QCQA	UPLOAD BOTH, USE BOTH	

1042f4201.d	1243859003	JAO	03-FEB-2010 18:39	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1043f4301.d	1243859004	JAO	03-FEB-2010 18:52	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1044f4401.d	1243859005	JAO	03-FEB-2010 19:04	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1045f4501.d	1243859006	JAO	03-FEB-2010 19:16	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1046f4601.d	1243859007	JAO	03-FEB-2010 19:29	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1047f4701.d	1243859008	JAO	03-FEB-2010 19:41	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1048f4801.d	1243859009	JAO	03-FEB-2010 19:54	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1049f4901.d	1243859010	JAO	03-FEB-2010 20:06	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1050f5001.d	1243859011	JAO	03-FEB-2010 20:18	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1051f5101.d	1243859012	JAO	03-FEB-2010 20:31	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1052f5201.d	1243859013	JAO	03-FEB-2010 20:43	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1053f5301.d	1243859014	JAO	03-FEB-2010 20:55	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1054f5401.d	1243859015	JAO	03-FEB-2010 21:08	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
1055f5501.d	1243859016	JAO	03-FEB-2010 21:20	1946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH

Instrument Batch: /chem/ecd8a.i/020310a.b

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1056f5601.d	1243859017	JAO	03-FEB-2010 21:33	1947574	10-1449	5.0 LANL	UPLOAD BOTH, USE HIGHER
1057f5701.d	1243859018	JAO	03-FEB-2010 21:45	1947574	10-1449	10.0 LANL	UPLOAD BOTH, USE HIGHER
1058f5801.d	1243859019	JAO	03-FEB-2010 21:57	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1059f5901.d	1243859020	JAO	03-FEB-2010 22:10	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1060f6001.d	1243859021	JAO	03-FEB-2010 22:22	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1061f6101.d	1243859022	JAO	03-FEB-2010 22:34	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1062f6201.d	1243859023	JAO	03-FEB-2010 22:47	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1063f6301.d	1243859024	JAO	03-FEB-2010 22:59	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1064f6401.d	1243859025	JAO	03-FEB-2010 23:12	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1065f6501.d	1243859026	JAO	03-FEB-2010 23:24	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER
1066f6601.d	1243859027	JAO	03-FEB-2010 23:36	1947574	10-1432	1.0 LANL	UPLOAD BOTH, USE HIGHER

1067f6701.d	1WARI00203-60 05	1JAO	103-FEB-2010 23:49	1	1020310a	1	1.01	1	PASSES BOTH COLUMNS
1068f6801.d	1WAR091130-99 06	1JAO	104-FEB-2010 00:01	1	1020310a	.	1.01	1	CLEAN

# GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 02/15/2010 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/021210.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	12-FEB-2010 06:49		021210	1.01	CLEAN	
002f0201.d	WAR100203-60 01	JAOC	12-FEB-2010 07:02		021210	1.01	PASSES BOTH COLUMNS	
003f0301.d	WAR100201-54	JAOC	12-FEB-2010 07:14		021210	1.01	PASSES BOTH COLUMNS	
004f0401.d	WAR091217-42	JAOC	12-FEB-2010 07:26		021210	1.01	PASSES BOTH COLUMNS	
005f0501.d	WAR091217-48	JAOC	12-FEB-2010 07:38		021210	1.01	PASSES BOTH COLUMNS	
006f0601.d	WAR100104-32	JAOC	12-FEB-2010 07:51		021210	1.01	PATTERN ONLY	
007f0701.d	WAR100104-21	JAOC	12-FEB-2010 08:03		021210	1.01	PATTERN ONLY	
008f0801.d	WAR100104-62	JAOC	12-FEB-2010 08:16		021210	1.01	PATTERN ONLY	
009f0901.d	WAR100107-68	JAOC	12-FEB-2010 08:28		021210	1.01	PATTERN ONLY	
010f1001.d	WAR091219-DDT	JAOC	12-FEB-2010 08:40		021210	1.01	DDT	
011f1101.d	WAR100105-99 02	JAOC	12-FEB-2010 08:53		021210	1.01	CLEAN	
012f1201.d	1202040223	JAOC	12-FEB-2010 09:05	951946	110-1543	1.01QC A	UPLOAD BOTH, USE HIGHER	
013f1301.d	1202040224	JAOC	12-FEB-2010 09:18	951946	110-1543	1.01QC A	UPLOAD BOTH, USE HIGHER	
014f1401.d	246055005	JAOC	12-FEB-2010 09:30	951946	110-1545	1.01LANL	UPLOAD BOTH, USE HIGHER	
015f1501.d	1246066001	JAOC	12-FEB-2010 09:42	951946	110-1543	1.01LANL	UPLOAD BOTH, USE HIGHER	

Instrument Batch: /chem/ecd8a.i/021210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	1246066002	JAOC	12-FEB-2010 09:55	951946	110-1543	1.01LANL	UPLOAD BOTH, USE HIGHER	
017f1701.d	1246066003	JAOC	12-FEB-2010 10:07	951946	110-1543	1.01LANL	UPLOAD BOTH, USE HIGHER	

018f1801.d	1246066004	JAO	12-FEB-2010 10:19	951946	10-1543	1.0	LANL	UPLOAD BOTH, USE HIGHER
019f1901.d	1246066005	JAO	12-FEB-2010 10:32	951946	10-1543	1.0	LANL	UPLOAD BOTH, USE HIGHER
020f2001.d	1246066006	JAO	12-FEB-2010 10:44	951946	10-1543	1.0	LANL	UPLOAD BOTH, USE HIGHER
021f2101.d	WAR100203-60 02	JAO	12-FEB-2010 10:56		021210	1.0		PASSES BOTH COLUMNS
022f2201.d	WAR:00105-99 03	JAO	12-FEB-2010 11:09		021210	1.0		CLEAN
023f2301.d	1246318001	JAO	12-FEB-2010 11:21	951946	10-1564	1.0	LANL	UPLOAD BOTH, USE HIGHER
024f2401.d	1246318002	JAO	12-FEB-2010 11:34	951946	10-1564	1.0	LANL	UPLOAD BOTH, USE HIGHER
025f2501.d	1246318003	JAO	12-FEB-2010 11:46	951946	10-1564	1.0	LANL	UPLOAD BOTH, USE HIGHER
026f2601.d	1246330008	JAO	12-FEB-2010 11:58	951946	10-1567	1.0	LANL	UPLOAD BOTH, USE HIGHER
027f2701.d	1246330009	JAO	12-FEB-2010 12:11	951946	10-1567	1.0	LANL	UPLOAD BOTH, USE HIGHER
028f2801.d	1246463002	JAO	12-FEB-2010 12:23	951946	10-1634	1.0	LANL	UPLOAD BOTH, USE HIGHER
029f2901.d	1246463003	JAO	12-FEB-2010 12:35	951946	10-1634	5.0	LANL	DUSE, NEEDS A 5X
030f3001.d	1246463004	JAO	12-FEB-2010 12:48	951946	10-1634	1.0	LANL	UPLOAD BOTH, USE HIGHER
031f3101.d	1246463005	JAO	12-FEB-2010 13:00	951946	10-1634	5.0	LANL	UPLOAD BOTH, USE HIGHER
032f3201.d	1246477002	JAO	12-FEB-2010 13:13	951946	10-1647	1.0	LANL	DUSE, NEEDS A 10X
033f3301.d	WAR100203-60 03	JAO	12-FEB-2010 13:25		021210	1.0		PASSES BOTH COLUMNS
034f3401.d	WAR100105-99 04	JAO	12-FEB-2010 13:37		021210	1.0		CLEAN
035f3501.d	1246575003	JAO	12-FEB-2010 13:50	951946	10-1675	1.0	LANL	UPLOAD BOTH, USE HIGHER

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Instrument Batch: /chem/ecd8a.i/021210.b

Data File	GL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	1202040225	JAO	12-FEB-2010 14:02	951946	10-1675	1.0	QC A	UPLOAD BOTH, USE HIGHER
037f3701.d	1202040226	JAO	12-FEB-2010 14:14	951946	10-1675	1.0	QC A	UPLOAD BOTH, USE HIGHER
038f3801.d	1246575004	JAO	12-FEB-2010 14:27	951946	10-1675	1.0	LANL	UPLOAD BOTH, USE HIGHER
039f3901.d	1246463003	JAO	12-FEB-2010 14:39	951946	10-1634	25.0	LANL	UPLOAD BOTH, USE HIGHER
040f4001.d	1246477002	JAO	12-FEB-2010 14:51	951946	10-1647	10.0	LANL	UPLOAD BOTH, USE HIGHER
041f4101.d	WAR100203-60 04	JAO	12-FEB-2010 15:04		021210	1.0		PASSES BOTH COLUMNS

| 042#4201.d | WAR100105-99 05 | JAOC | 12-FEB-2010 15:16 | | 1021210 | | 1.0 | | CLEAN

Data File: /chem/ecd8a.i/021210.b/036b3601.d  
Report Date: 15-Feb-2010 11:10

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/021210.b/036b3601.d  
Lab Smp Id: 1202040225 Client Smp ID: WST15-10-11621MS  
Inj Date : 12-FEB-2010 14:02  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202040225|1|  
Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|MS|||  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 15-Feb-2010 06:49 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 36 QC Sample: MS  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1675.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	6.57170	% 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							
2.486	2.486	0.000	7818097	90.0253	3.2 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.836	6.836	0.000	8399553	129.535	4.6 80.00- 120.00	100.00	
-----							
1 Aroclor-1016 CAS #: 12674-11-2							
3.559	3.558	0.001	2136861	567.348	20.2 80.00- 120.00	100.00	
3.658	3.658	0.000	1333132	534.444	19.0 45.12- 85.12	62.39	
3.735	3.734	0.001	838835	553.507	19.7 19.91- 59.91	39.26	
3.810	3.809	0.001	886981	594.028	21.1 18.22- 58.22	41.51	
4.006	4.006	0.000	1183238	581.267	20.7 33.52- 73.52	55.37	
Average of Peak Concentrations =				20.1			
-----							

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	-----	-----	=====
7 Aroclor-1260			CAS #: 11096-82-5					
4.918	4.919	-0.001	2738229	670.409	23.9	80.00-	120.00	100.00
5.066	5.068	-0.002	3114317	626.762	22.3	102.34-	142.34	113.73
5.384	5.384	0.000	2651239	699.827	24.9	74.38-	114.38	96.82
5.591	5.591	0.000	2645273	669.163	23.8	77.60-	117.60	96.61
6.023	6.023	0.000	4408302	707.884	25.2	139.44-	179.44	160.99
Average of Peak Concentrations =			24.0					



Data File: /chem/ecod8a.i/021210.b/036b3601.d

Date : 12-FEB-2010 14:02

Client ID: MST15-10-11624MS

Sample Info: 11202040225111

Volume Injected (uL): 1.0

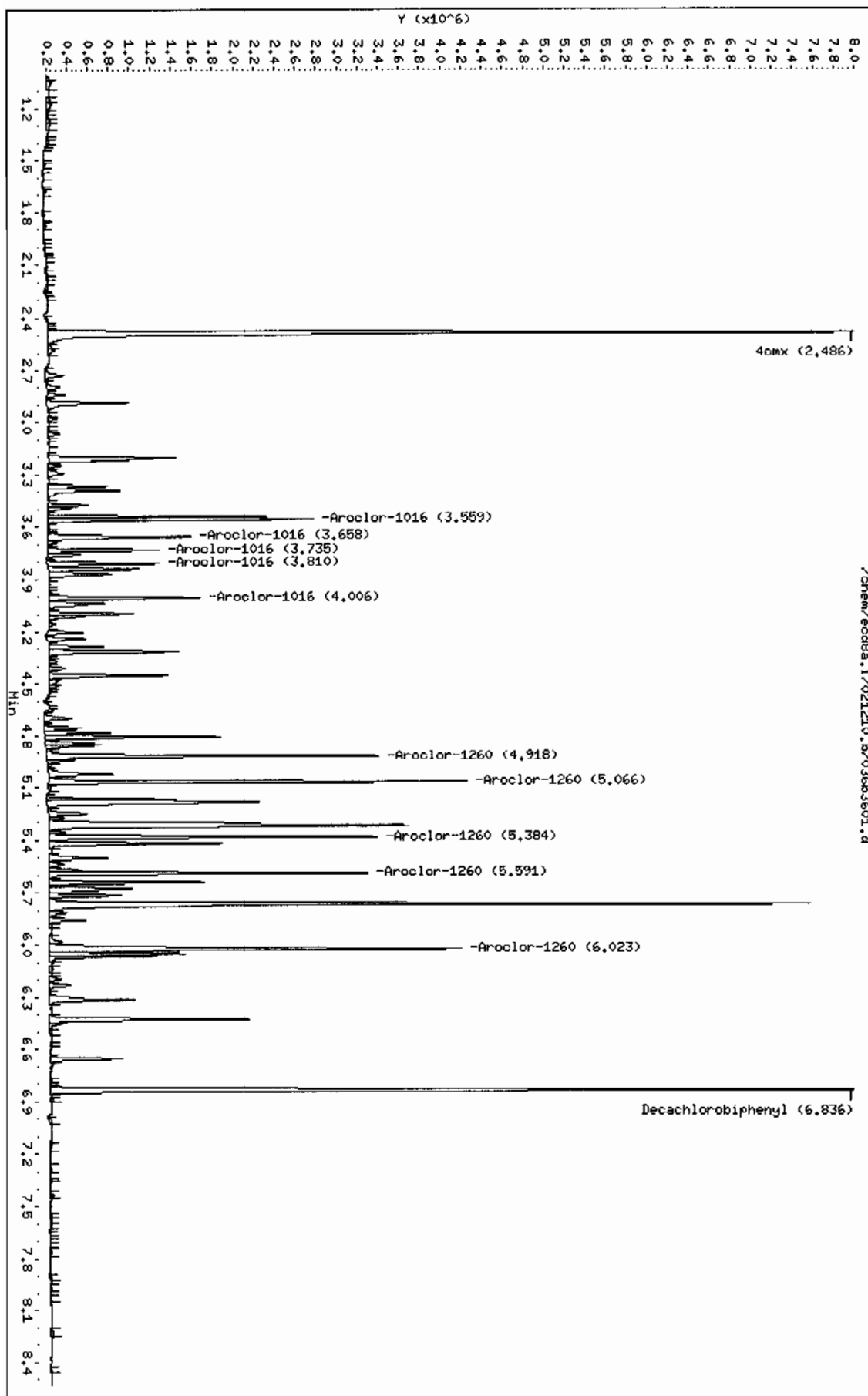
Column phase: CLP2

Instrument: ecod8a.i

Operator: JAO

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/036f3601.d  
Report Date: 15-Feb-2010 11:11

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/036f3601.d

Lab Smp Id: 1202040225

Client Smp ID: WST15-10-11621MS

Inj Date : 12-FEB-2010 14:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202040225|1|

Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|MS|||

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 15-Feb-2010 06:50 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 36

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1675.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	6.57170	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

			ON-COL		FINAL	TARGET RANGE		RATIO
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)			
==	==	==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8					
2.255	2.252	0.003	15651204	119.106	4.2	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3					
6.245	6.245	0.000	12370057	123.724	4.4	80.00-	120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2					
2.812	2.811	0.001	2650281	568.166	20.2	80.00-	120.00	100.00
3.164	3.163	0.001	3250319	563.354	20.0	110.21-	150.21	122.64
3.308	3.306	0.002	1225834	499.484	17.8	32.76-	72.76	46.25
3.400	3.399	0.001	1272487	578.882	20.6	26.33-	66.33	48.01
3.562	3.561	0.001	1448968	461.138	16.4	47.15-	87.15	54.67
Average of Peak Concentrations =			19.0					

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5			
4.434	4.435	-0.001	4026930	597.559	21.3	80.00- 120.00	100.00	
4.630	4.631	-0.001	6495755	633.127	22.5	131.14- 171.14	161.31	
4.906	4.906	0.000	4108716	670.280	23.8	71.88- 111.88	102.03	
5.077	5.078	-0.001	4204853	658.462	23.4	78.48- 118.48	104.42	
5.489	5.490	-0.001	4689455	683.618	24.3	91.90- 131.90	116.45	
Average of Peak Concentrations =					23.1			

Data File: /chem/ecod8a.i/021210.b/036f3601.d

Date: 12-FEB-2010 14:02

Client ID: MST15-10-11621MS

Sample Inlet: 1120204025111

Volume Injected (uL): 1.0

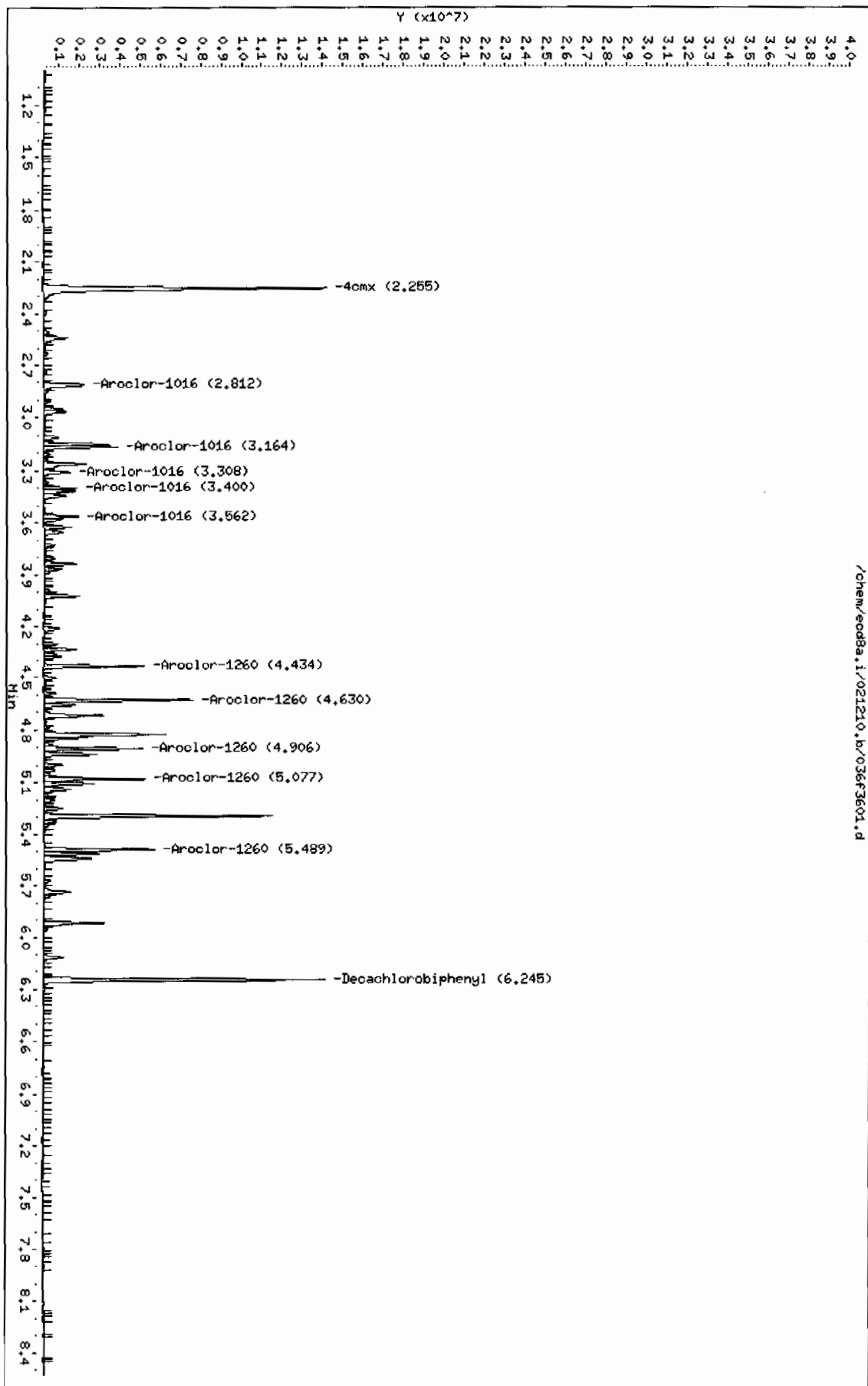
Column phase: CLP1

Instrument: ecod8a.i

Operator: JMO

Column diameter: 0.25

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Data File: /chem/ecd8a.i/021210.b/037b3701.d  
Report Date: 15-Feb-2010 11:11

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/021210.b/037b3701.d  
Lab Smp Id: 1202040226 Client Smp ID: WST15-10-11621MSD  
Inj Date : 12-FEB-2010 14:14  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202040226|1|  
Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|MSD|1|  
Comment :  
Method : /chem/ecd8a.i/021210.b/ECD8-B-8082-020310a.m  
Meth Date : 15-Feb-2010 06:49 jen01212 Quant Type: ESTD  
Cal Date : 03-FEB-2010 17:25 Cal File: 036b3601.d  
Als bottle: 37 QC Sample: MSD  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1675.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	6.57170	% Moisture

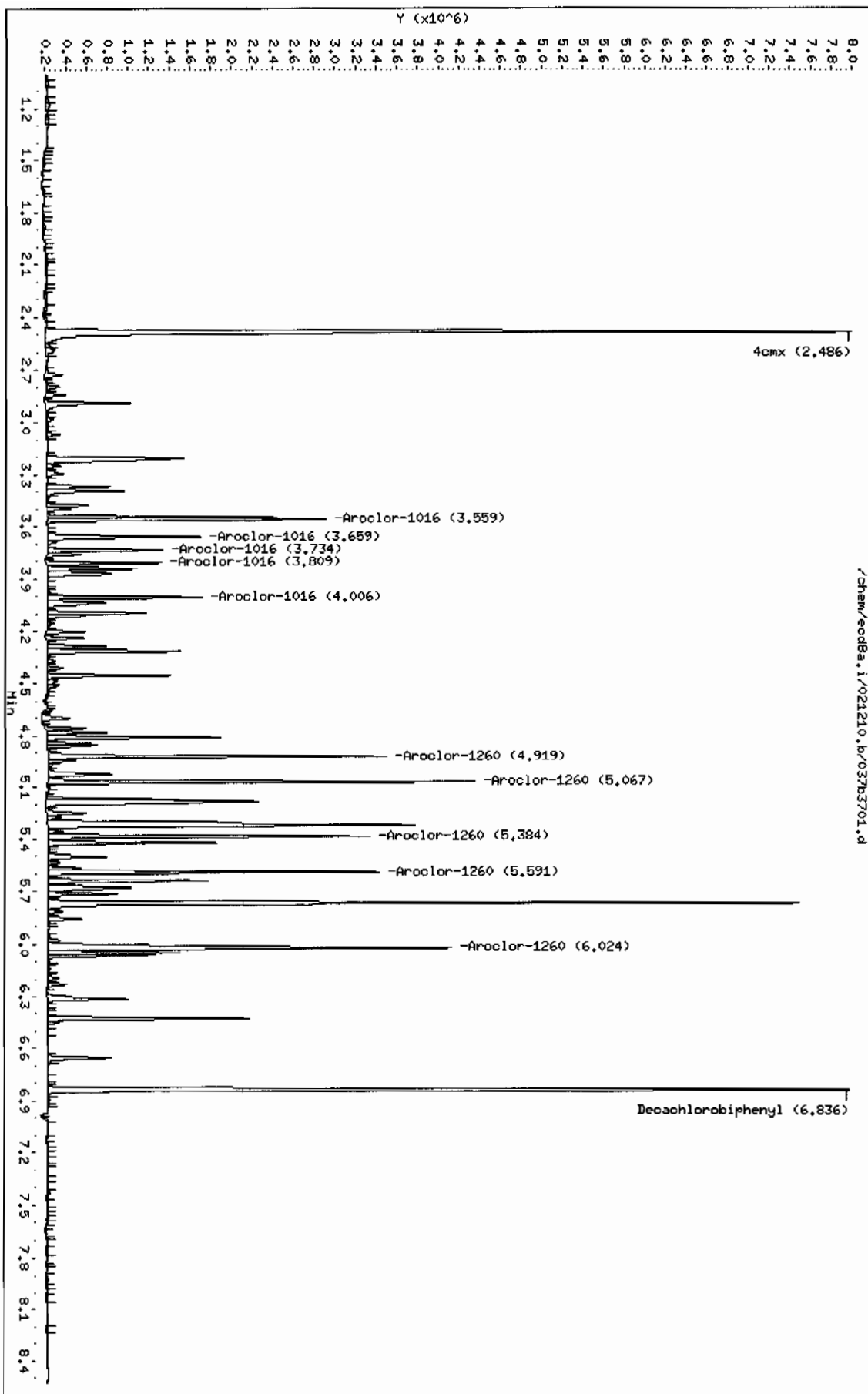
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.486	2.486	0.000	7915555 91.1475	3.2	80.00- 120.00	100.00
-----						
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.836	6.836	0.000	8112348 125.106	4.4	80.00- 120.00	100.00
-----						
1 Aroclor-1016 CAS #: 12674-11-2						
3.559	3.558	0.001	2159261 573.296	20.4	80.00- 120.00	100.00
3.659	3.658	0.001	1431513 573.884	20.4	45.12- 85.12	66.30
3.734	3.734	0.000	873605 576.450	20.5	19.91- 59.91	40.46
3.809	3.809	0.000	891892 597.317	21.3	18.22- 58.22	41.31
4.006	4.006	0.000	1205896 592.398	21.1	33.52- 73.52	55.85
Average of Peak Concentrations =				20.7		
-----						

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5			
4.919	4.919	0.000	2742802	671.528	23.9 80.00- 120.00	100.00
5.067	5.068	-0.001	3222183	648.470	23.1 102.34- 142.34	117.48
5.384	5.384	0.000	2633939	695.261	24.8 74.38- 114.38	96.03
5.591	5.591	0.000	2702363	683.605	24.4 77.60- 117.60	98.53
6.024	6.023	0.001	4396008	705.910	25.2 139.44- 179.44	160.27
Average of Peak Concentrations =			24.3			

Data File: /chem/ecdb8a.i/021210.b/037b3701.d  
Date: 12-FEB-2010 14:14  
Client ID: MST15-10-11621MSD  
Sample Info: 1120204022611  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecdb8a.i  
Operator: JHOC  
Column diameter: 0.25



Data File: /chem/ecd8a.i/021210.b/037f3701.d  
Report Date: 15-Feb-2010 11:11

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/021210.b/037f3701.d

Lab Smp Id: 1202040226

Client Smp ID: WST15-10-11621MSD

Inj Date : 12-FEB-2010 14:14

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202040226|1|

Misc Info : |ECD82P\_1S|951946|SVA|QC A|SOIL|MSD|

Comment :

Method : /chem/ecd8a.i/021210.b/ECD8-F-8082-020310a.m

Meth Date : 15-Feb-2010 06:50 jen01212 Quant Type: ESTD

Cal Date : 03-FEB-2010 17:25

Cal File: 036f3601.d

Als bottle: 37

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1675.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	6.57170	% 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							
2.254	2.252	0.002	14945127	113.732	4.0 80.00-	120.00	100.00
-----							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.245	6.245	0.000	12312625	123.149	4.4 80.00-	120.00	100.00
-----							
1 Aroclor-1016 CAS #: 12674-11-2							
2.813	2.811	0.002	2629777	563.770	20.1 80.00-	120.00	100.00
3.164	3.163	0.001	3389389	587.458	20.9 110.21-	150.21	128.89
3.307	3.306	0.001	1250969	509.726	18.2 32.76-	72.76	47.57
3.399	3.399	0.000	1315163	598.296	21.3 26.33-	66.33	50.01
3.562	3.561	0.001	1458448	464.155	16.5 47.15-	87.15	55.46
Average of Peak Concentrations =				19.4			
-----							

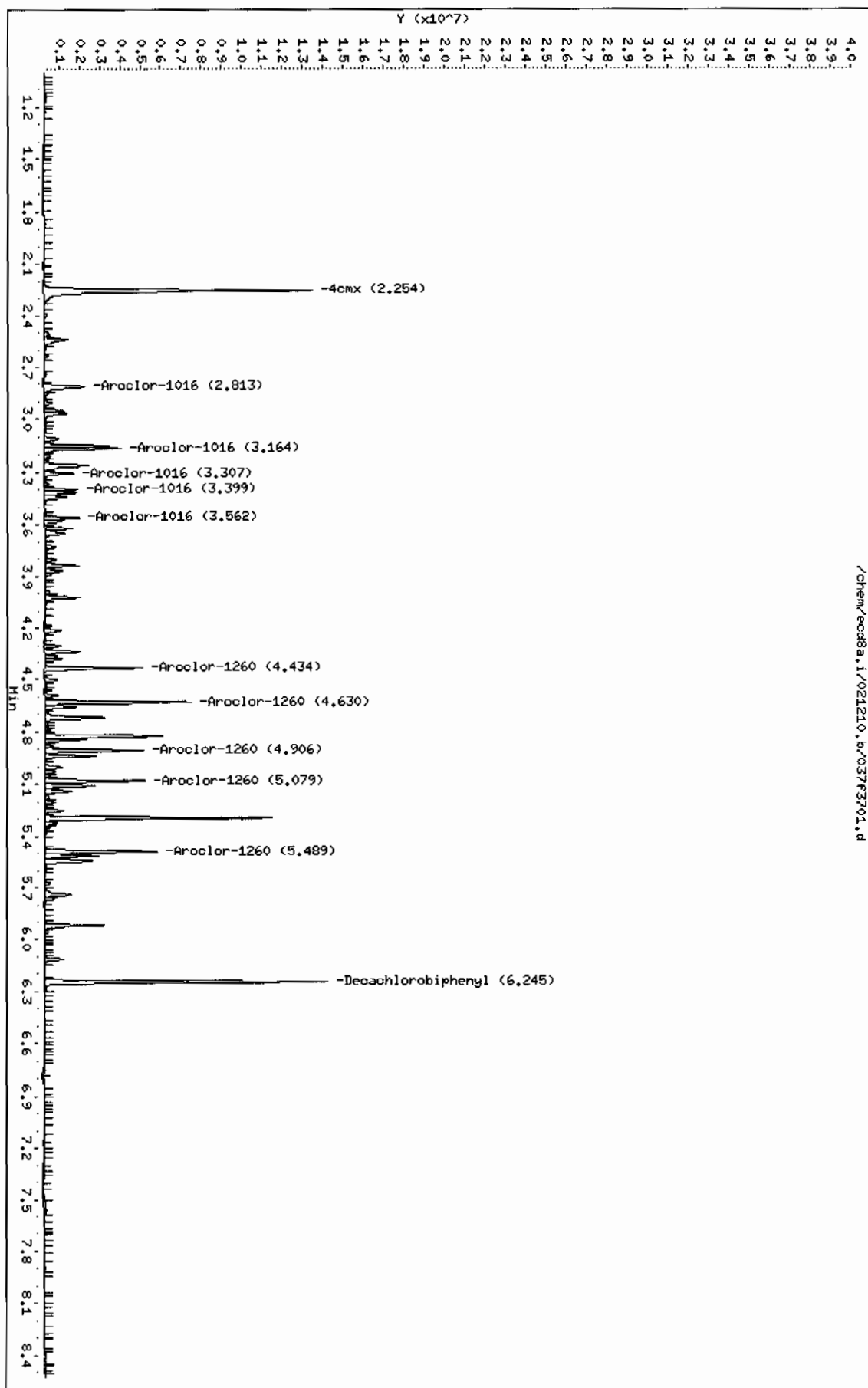


CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5			
4.434	4.435	-0.001	4029047	597.873	21.3	80.00- 120.00	100.00
4.630	4.631	-0.001	6356744	619.578	22.1	131.14- 171.14	157.77
4.906	4.906	0.000	3997986	652.216	23.2	71.88- 111.88	99.23
5.079	5.078	0.001	4228363	662.144	23.6	78.48- 118.48	104.95
5.489	5.490	-0.001	4730617	689.619	24.6	91.90- 131.90	117.41
Average of Peak Concentrations =				23.0			

Data File: /chem/ecod8a.i/021210.b/037f3701.d  
Date: 12-FEB-2010 14:14  
Client ID: MST15-10-11621MSD  
Sample Info: 1120204022611  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecod8a.i  
Operator: JHOC  
Column diameter: 0.25

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# Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 951941      Verified by: \_\_\_\_\_

Analyst: Andrew Schwemin      Lab SOP: GL-OA-E-010 REV# 18

Method: SW846 3550B      Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202040223 MB	11-FEB-2010 22:01:00	30	H2SO4/KM12	2	9	1	0.03333	
1202040224 LCS	11-FEB-2010 22:01:00	30	H2SO4/KM12	2	9	1	0.03333	
246055005	11-FEB-2010 22:01:00	30.18	H2SO4/KM12	2	9	1	0.03313	
246066001	11-FEB-2010 22:01:00	30.02	H2SO4/KM12	2	9	1	0.03331	
246066002	11-FEB-2010 22:01:00	30.11	H2SO4/KM12	2	9	1	0.03321	
246066003	11-FEB-2010 22:01:00	30.06	H2SO4/KM12	2	9	1	0.03327	
246066004	11-FEB-2010 22:01:00	30.04	H2SO4/KM12	2	9	1	0.03329	
246066005	11-FEB-2010 22:01:00	30.12	H2SO4/KM12	2	9	1	0.03332	
246066006	11-FEB-2010 22:01:00	30.14	H2SO4/KM12	2	9	1	0.03318	
246318001	11-FEB-2010 22:01:00	30.03	H2SO4/KM12	2	9	1	0.0333	
246318002	11-FEB-2010 22:01:00	30.06	H2SO4/KM12	2	9	1	0.03327	
246318003	11-FEB-2010 22:01:00	30.07	H2SO4/KM12	2	9	1	0.03326	
246330008	11-FEB-2010 22:01:00	30.03	H2SO4/KM12	2	9	1	0.0333	
246330009	11-FEB-2010 22:01:00	30.13	H2SO4/KM12	2	9	1	0.03319	
246463002	11-FEB-2010 22:01:00	30.06	H2SO4/KM12	2	9	1	0.03327	
246463003	11-FEB-2010 22:01:00	30.03	H2SO4/KM12	2	9	1	0.0333	
246463004	11-FEB-2010 22:01:00	30.03	H2SO4/KM12	2	9	1	0.0333	
246463005	11-FEB-2010 22:01:00	30.03	H2SO4/KM12	2	9	1	0.0333	
246477002	11-FEB-2010 22:01:00	30.02	H2SO4/KM12	2	9	1	0.03331	
246575003	11-FEB-2010 22:01:00	30.01	H2SO4/KM12	2	9	1	0.03332	
1202040225 MS (246575003)	11-FEB-2010 22:01:00	30.07	H2SO4/KM12	2	9	1	0.03326	
1202040226 MSD (246575003)	11-FEB-2010 22:01:00	30.03	H2SO4/KM12	2	9	1	0.0333	
246575004	11-FEB-2010 22:01:00	30.12	H2SO4/KM12	2	9	1	0.0332	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202040224	PCB Laboratory Control	WE100126-07	1	mL	Clean up Date: 2/11/10
MS	1202040225	PCB Laboratory Control	WE100126-07	1	mL	Clean up Initials: AVS
MSD	1202040226	PCB Laboratory Control	WE100126-07	1	mL	Verified By: AV
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE100127-15	1	mL	Final Solvent: Hexane
RECONT	All	Acetone	100211-B1	150	mL	Clean Up SOP: GL-OA-E-037
RECONT	All	Hexane	100211-B2	150	mL	
RECONT	All	1:1 sulfuric acid	1260695a	5	mL	
RECONT	All	5% Potassium Permanganate	B1202457-F	5	mL	
SOURC	All	SODIUM SULFATE	1263308	30	g	