

Thursday, January 28, 2010

**LOS ALAMOS**  
**NATIONAL LABORATORY**

ATTN: Valerie Davis

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

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 1/28/2010

TURNAROUND/REPORT DUE: 2/27/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



REQUEST NUMBER: 10-1473

These Samples are on:

LANL Request Number: 10-1473

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8082						
1		1	RE15-10-8058	R	1/26/2010	
1		1	RE15-10-8059	R	1/26/2010	
1		1	RE15-10-8060	R	1/26/2010	
SW-846:8321A_MOD						
1		1	RE15-10-7952	R	1/26/2010	
1		1	RE15-10-7953	R	1/26/2010	
1		1	RE15-10-7954	R	1/26/2010	
1		1	RE15-10-7955	R	1/26/2010	
1		1	RE15-10-7956	R	1/26/2010	
1		1	RE15-10-8058	R	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1473

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	

Final Page of REQUEST NUMBER 10-1473

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1473

REQUEST NUMBER: 10-1473

TURNAROUND/REPORT DUE: 2/27/2010

TURNAROUND REQ'D: 30

General Engineering Laboratories, Inc.,

ATTN: Valerie Davis

NATIONAL LABORATORY

LOS ALAMOS

Thursday, January 28, 2010

LAB REQUEST COMMENTS:

Charleston, SC 29407

2040 Savage Rd

Charleston, SC.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
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RE15-10-7954	1	AMBER GLASS	NMED Explosives list	ice	R
RE15-10-7956	1	AMBER GLASS	NMED Explosives list	ice	R
RE15-10-7955	1	AMBER GLASS	NMED Explosives list	ice	R
RE15-10-7953	1	AMBER GLASS	NMED Explosives list	ice	R
RE15-10-7952	1	AMBER GLASS	NMED Explosives list	ice	R
RE15-10-8060	1	AMBER GLASS	8082+NMED-HEXP	ice	R
RE15-10-8058	1	AMBER GLASS	8082+NMED-HEXP	ice	R
RE15-10-8059	1	AMBER GLASS	8082+NMED-HEXP	ice	R

*Received by 1/28/10 1400*

Printed Name	Signature	Printed Name	Signature
Received for DISPOSAL By:	Signature	Printed Name	Signature
Date	Time	Remarks:	Signature
Printed Name	Signature	Printed Name	Signature

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-7952

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1400		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610745	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.5		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Pinkish gray moist tuff

SAMPLE COMMENTS:

Hit tuff at 1.5 ft

LOCATION DESC:

8b-65 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 16 dpm  
Beta/Gamma = 1997 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) <i>Estevan Lujan</i> (Signature) <i>[Signature]</i>	Date/Time 1/27/10 09:16 Am	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 1/27/10 938
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-7953

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	OBT3		Allh
TIME COLLECTED (HH:MM)		1457		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610746	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.8		SCREEN/PORT DESC:			NA
FIELD MATRIX:	B	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Brown sand

FD RE15-10-8060

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-46 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha = 22 dpm

Beta/Gamma = 1170 dpm

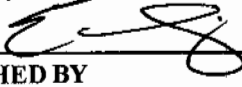

PID  $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$  ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) 	Date/Time 1/27/10 09:15 AM	RECEIVED BY (Printed Name) (Signature) 	Date/Time 1/27/10 935
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-7954

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1512		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610746		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		3.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		3.4		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

86-46 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  33 dpm  
Beta/Gamma  $\leq$  3340 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) <i>Estevan Lujon</i> (Signature) <i>[Signature]</i>	Date/Time 1/27/10 09:16AM	RECEIVED BY (Printed Name) <i>Sherrill Sherwood</i> (Signature) <i>[Signature]</i>	Date/Time 1/27/10 0916
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-7955

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3	ALLH	
TIME COLLECTED (HH:MM)		1515		SUB-MEDIA:	TUFF 1	NA	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA	ok	
LOCATION ID:	15-610747	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: light brown silty sand with some tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-35 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE NEG

Alpha = 5 dpm

Beta/Gamma = 4250 dpm

PID Ambient 0.0  
Reading 8.9 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

T McFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) [Signature]	Date/Time 1/27/10 09:16 AM	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) [Signature]	Date/Time 1/27/10 0916
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-7956

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		1530		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610747	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	3.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.7		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES <input checked="" type="checkbox"/> / NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES <input checked="" type="checkbox"/> / NA			
BOREHOLE: YES <input checked="" type="checkbox"/> / NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: pinkish grey tuff, tuff fragments  
FR RE 15-10-8082

SAMPLE COMMENTS:  
NA

LOCATION DESC: 8b-35 mesa top

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  44 dpm  
Beta/Gamma  $\leq$  2910 dpm

PID  $\frac{\text{Ambient } 0.0}{\text{Reading } 7.1}$  ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:15 AM	RECEIVED BY (Printed Name) Sherri Sherwood (Signature)	Date/Time 1/27/10 0915
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8058

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1029		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	↓		FIELD QC TYPE:	ED		↓
LOCATION TYPE:	GENERIC	✓		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/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	72m 1/26/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1.11.10 LC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE 15-10-7947  
brown sandy silt, rocks, some roots, pine needles

SAMPLE COMMENTS:  
NA

LOCATION DESC: 86-43 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  16 dpm  
Beta/Gamma  $\leq$  2300 dpm

HE NEG  
PID  $\frac{\text{Ambient Reading}}{1.5} \frac{0.1}{1.5}$  ppm

COLLECTED BY (PRINT)  
R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Esteban Lujan (Signature)	Date/Time 1/27/10 09:21 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 938
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8059

WORK ORDER:

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

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	72m 1/26/10 80827-NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 LC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7946

Gray tuff

SAMPLE COMMENTS:

Tuff at 2 ft

LOCATION DESC: 8b-41 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  16 dpm  
Beta/Gamma  $\leq$  2070 dpm

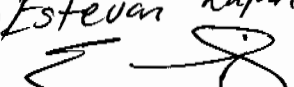
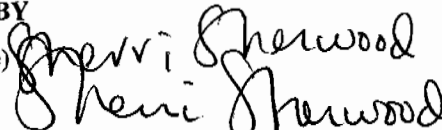
PID  $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.1}{83}$  ppm

COLLECTED BY (PRINT)

JL McFarland

REVIEWED BY (PRINT)

R Saunders

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

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8060

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1457		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: UNK		15-01074		FIELD QC TYPE:		ED	
LOCATION TYPE: GENERIC		OK		FIELD PREP:		NA	
TOP DEPTH: 0		0.0		SAMPLE USAGE:		QC	
BOTTOM DEPTH: 0		0.8		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	7241/26/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1.11.10 LC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7953

Brown sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-46 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha  $\pm$  22 dpm  
Beta/Gamma  $\pm$  7970 dpm

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

COLLECTED BY (PRINT)

TL McFarlane

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:15 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 935
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8081

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA: NA		OK	
TIME COLLECTED(HH:MM)		1028		SUB-MEDIA: OTHER			
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE: DC			
LOCATION ID:	UNK	15-610742		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	W		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	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

RE15-10-7945

Rinsate

SAMPLE COMMENTS: NA

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha =  $\frac{RS_{0.26/10}}{dpm}$   
 Beta/Gamma =  $\frac{dpm}{dpm}$

RS 01-26-10  
 PID  $\frac{\text{Ambient Reading}}{Reading} = ppm$

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:19 AM	RECEIVED BY (Printed Name) Sheri Sherwood (Signature)	Date/Time 1/27/10 0919
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8082

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		1547		SUB-MEDIA:	OTHER		
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610747		FIELD QC TYPE:	FR		
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 RE15-10-7956

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 72m dpm  
 Beta/Gamma = 126/10 dpm

PID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$   
 72m 1/26/10

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) <i>Estevan Lujan</i> (Signature) <i>E Lujan</i>	Date/Time 1/27/10 09:14AM	RECEIVED BY (Printed Name) <i>Sherrif Sherwood</i> (Signature) <i>Sherrif Sherwood</i>	Date/Time 1/27/10 0914
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## Rad Screening Data Release Form

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

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

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

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


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

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

RE15-10-8082  
RE15-10-8081

Reason: *Field Release*

.....  
Print Last Name Lujan

Signature 

Date 1/27/10

## Rad Screening Data Release Form

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

RE15-10-7890	RE15-10-7886	RE15-10-7948
" " 7889	" " 7885	" " 7947
" " 7956	" " 7882	" " 8058
" " 7953	" " 7881	" " 7950
" " 8060	" " 7941	
" " 7954	" " 7942	
" " 7955	" " 7943	
" " 7952	" " 7944	
" " 7951	" " 8059	
" " 7949	" " 7946	
	" " 7945	

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

.....


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

RE15-10-8082  
RE15-10-8081

Reason: *Field Release*

.....

Print Last Name Lujan

Signature 

Date 1/27/10



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7952

ARS Sample ID: ARS2-10-00026-007

Sample Collection Date: 01/28/10 14:00

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Grind

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	min	max	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	62.18	35.52	30.56	36.33		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	81.19	20.92	19.68	23.16		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-0.16	-12.45	5.49	-12.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	14.59	0.15	14.59		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	19.09	0.09	19.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.42	0.49	0.17	0.49		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.86	0.64	0.15	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.89	1.11	0.39	1.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	-0.09	82.03	0.23	82.03		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	5.90	4.57	1.79	4.76		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.41	0.48	0.18	0.48		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.69

*[Signature]*  
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7953

ARS Sample ID: ARS2-10-00026-008

Sample Collection Date: 01/26/10 14:57

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	net	gross	Q-adj	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	157.42	54.93	38.20	58.23		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	199.89	29.07	18.71	38.00		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-0.78	-24.74	3.32	-24.74		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	7.42	0.08	7.42		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.05	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.42	0.22	0.05	0.22		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.49	0.40	0.09	0.40		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.00	0.39	0.14	0.39		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	0.34	0.10	0.28	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	3.25	1.18	0.46	1.19		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	82.56	8.88	2.44	20.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	1.34	1.06	0.39	1.06		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.56

*[Signature]*  
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

NE\_LAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7954

ARS Sample ID: ARS2-10-00026-009

Sample Collection Date: 01/26/10 15:12

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Dual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	109.48	47.63	36.02	49.50		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	103.84	21.78	17.51	25.22		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	27.12	10.11	2.13	10.14		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	13.97	0.14	13.97		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.04	0.11	0.09	0.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	1.10	0.83	0.16	0.83		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.86	0.61	0.13	0.62		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	2.52	1.45	0.37	1.46		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	-0.09	157.74	0.35	157.74		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	20.50	6.40	2.05	7.93		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.09	0.29	0.15	0.29		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.64

*[Signature]*  
Quality Assurance Review

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LELAP Certificate# 30659

NELAP Certificate # E97558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7955

ARS Sample ID: ARS2-10-00026-010

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

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDL	TDR	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	62.00	35.06	31.68	35.88		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	94.28	20.75	18.10	23.74		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	21.17	7.18	1.39	7.21		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	0.13	0.09	0.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.16	0.16	0.07	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.24	0.25	0.09	0.25		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.61	0.46	0.11	0.46		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.08	0.45	0.17	0.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.72	0.72	0.24	0.72		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	3.40	1.46	0.46	1.47		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	47.98	7.94	2.12	13.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.84	0.25	0.15	0.25		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.72

  
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7956

ARS Sample ID: ARS2-10-00026-011

Sample Collection Date: 01/26/10 15:30

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TDU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	91.15	42.42	36.56	43.87		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	83.97	21.62	19.68	23.94		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	28.52	9.81	1.93	9.85		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CR-40	0.00	12.64	0.13	12.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.11	0.13	0.09	0.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	16.54	0.08	16.54		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.00	13.15	0.15	13.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.71	0.53	0.11	0.56		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.20	0.57	0.34	0.57		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.49	1.03	0.38	1.03		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	19.18	7.15	2.41	8.39		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.61	0.54	0.20	0.54		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.57

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 # F87558





133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Request or PO Number:

Client Sample ID: RE15-10-8060

ARS Sample ID: ARS2-10-00026-012

Sample Collection Date: 01/26/10 14:57

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 13:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPD	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	182.81	54.21	38.20	57.34		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	223.82	30.34	18.71	40.86		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	21.72	4.49	1.13	8.93		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CR-50	0.00	7.37	0.07	7.37		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.26	0.17	0.05	0.17		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.13	0.15	0.05	0.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.32	0.36	0.09	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.62	0.36	0.16	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.94	0.98	0.20	0.99		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.44	1.34	0.49	1.34		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	88.93	10.06	2.90	24.06		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.69	0.70	0.21	0.70		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.51

*[Signature]*  
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-0056

ARS Sample ID: ARS2-10-00025-014

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

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:34

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDA	TPD	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	182.13	58.02	31.78	62.15		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	154.91	26.46	18.25	32.55		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.90	0.13	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-1.76	2369.70	4.26	2369.70		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.09	0.16	0.13	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.10	0.11	0.09	0.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.88	0.42	0.08	0.42		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.73	0.52	0.15	0.52		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.07	0.45	0.11	0.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.60	0.83	0.34	0.83		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.85	1.12	0.48	1.12		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	15.92	5.50	1.66	6.60		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.44	0.33	0.11	0.33		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 3.74

*Matthew J. Eddy*  
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

905-672-2770 FAX 905-672-9534

ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-8059

ARS Sample ID: ARS2-10-00025-015

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

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:34

Analysis Description	Analysis Results	Analysis Error +/- 2 s	Min	Max	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	149.10	53.62	30.56	56.64		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	114.64	24.84	19.68	26.54		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	0.71	0.53	5.30	0.53		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.08	0.17	0.14	0.19		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.36	0.30	0.10	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.02	0.12	0.11	0.12		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	1.05	0.64	0.16	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.21	0.53	0.17	0.54		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.00	0.66	0.43	0.66		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.42	1.28	0.36	1.29		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	2.14	2.50	1.36	2.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.29	0.35	0.14	0.35		pCi/g	EPA 901.1M	1/27/2010	ME	N/A


NOTES: % Moisture: 0.83

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

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

Section I.		
REQUEST NUMBER: <u>10-1473</u>	VALIDATION DATE: <u>03/10/10</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. 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.
2. The CCV %Ds for PETN and 2,4,6-trinitrotoluene were >20% with positive bias. The associated sample results were NDs and, thus, were not qualified.
3. The MS and MSD %Rs for TATB were > the laboratory UAL. The TATB results for samples RE15-10-7953 and -8060 were detects and, thus, were qualified J+, HE12f. The remaining associated sample results were NDs and, thus, were not qualified.

Reviewed by: Monica Dymerski Level I Date: 03/10/10


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

DATE: 03/10/10


DATA VALIDATION COVER SHEET	
<b>5122-1</b>  <b>Data Validation Cover Sheet</b>	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1945
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of $< 0.05$ in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.)	UJ, R, HE15	R, HE15
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. The sample was diluted because target analytes were > the initial verification calibration.	UJ, HE15a	J, HE15a



LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
<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 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: RE15-10-7954

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803001

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208171a

Date Analyzed: 12-FEB-10 02:21

Units: ug/kg

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

\*Concentration =

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

SEB  
3/10/10

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7954

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803001

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120052.wiff

Date Analyzed: 13-FEB-10 00:47

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7956

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803002

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208172a

Date Analyzed: 12-FEB-10 02:50

Units: ug/kg

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

\*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7956

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803002

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120053.wiff

Date Analyzed: 13-FEB-10 01:03

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: RE15-10-7955

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803003

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208173a

Date Analyzed: 12-FEB-10 03:20

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7955

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803003

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120054.wiff

Date Analyzed: 13-FEB-10 01:18

Units: ug/kg

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

\*Concentration =

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

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7953

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803004

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208174a

Date Analyzed: 12-FEB-10 03:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	193	J
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: RE15-10-7953

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803004

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120055.wiff

Date Analyzed: 13-FEB-10 01:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB J+,HE12f	500	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: RE15-10-7952

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803005

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208175a

Date Analyzed: 12-FEB-10 04:19

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7952

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803005

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120056.wiff

Date Analyzed: 13-FEB-10 01:50

Units: ug/kg

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

\*Concentration =

Instrument Value	X	<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: RE15-10-8060

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803006

Sample Amount 2

Moisture: 14.6

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208176a

Date Analyzed: 12-FEB-10 04:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	282	J
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: RE15-10-8060

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803006

Sample Amount 2

Moisture: 14.6

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120057.wiff

Date Analyzed: 13-FEB-10 02:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB J+,HE12f	312	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

SEB  
3/10/10

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8058

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803007

Sample Amount 2

Moisture: 35.9

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208177a

Date Analyzed: 12-FEB-10 05:18

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8058

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803007

Sample Amount 2

Moisture: 35.9

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120058.wiff

Date Analyzed: 13-FEB-10 02:21

Units: ug/kg

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

\*Concentration =

Instrument Value	X	<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: RE15-10-8059

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803008

Sample Amount 2

Moisture: 7.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208178a

Date Analyzed: 12-FEB-10 05:48

Units: ug/kg

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

\*Concentration =

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



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8059

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803008

Sample Amount 2

Moisture: 7.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120059.wiff

Date Analyzed: 13-FEB-10 02:37

Units: ug/kg

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

\*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

**DATA VALIDATION COVER SHEET**

5116-1

**Data Validation Cover Sheet**

Records Use only

**Section I.**REQUEST NUMBER: 10-1473 VALIDATION DATE: 03/10/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Susan Ball ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

**Section II. Completeness Check**

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

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

- The parent QC sample was from another LANL RN, and neither the raw data for the parent QC sample nor the MS/MSD samples were included in the data package. In addition, acceptable analyses for these samples were not indicated on the run log. Since the analysis of an MS/MSD pair is not a client requirement, no sample results were qualified.

Reviewed by: Monica Dymerski Level I Date: 03/10/10VALIDATOR'S SIGNATURE: DATE: 03/10/10

## PCB

Page 1 of 1

Certificate of Analysis  
Sample SummarySDG Number: 10-1473  
Lab Sample ID: 245803007Date Collected: 01/26/2010 12:00  
Date Received: 01/29/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD1A.I  
Analyst: YS1  
Aliquot: 30.04 g  
Column: 1 CLP1  
2 CLP2Matrix: R  
%Moisture: 35.9  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	5.19	ug/kg	1.73	5.19	1
11104-28-2	Aroclor-1221	U	5.19	ug/kg	1.73	5.19	1
11141-16-5	Aroclor-1232	U	5.19	ug/kg	1.73	5.19	1
53469-21-9	Aroclor-1242	U	5.19	ug/kg	1.73	5.19	1
12672-29-6	Aroclor-1248	U	5.19	ug/kg	1.73	5.19	1
11097-69-1	Aroclor-1254	JP	4.70	ug/kg	1.73	5.19	1
11096-82-5	Aroclor-1260		14.6	ug/kg	1.73	5.19	2
11100-14-4	Aroclor-1268		55.6	ug/kg	1.73	5.19	2

## PCB

Page 1 of 1

Certificate of Analysis  
Sample Summary

SDG Number:	10-1473	Date Collected:	01/26/2010 12:00	Matrix:	R
Lab Sample ID:	245803008	Date Received:	01/29/2010 08:45	%Moisture:	7.3
Client ID:	RE15-10-8059	Client:	LANL010	Project:	LANL01004
Batch ID:	949033	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/05/2010 11:50	Inst:	ECD1A.I	Dilution:	1
Prep Date:	02/04/2010 20:32	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	027f2701.d	Aliquot:	30.02 g	Final Volume:	1 mL
	027b2701.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.59	ug/kg	1.20	3.59	1
11104-28-2	Aroclor-1221	U	3.59	ug/kg	1.20	3.59	1
11141-16-5	Aroclor-1232	U	3.59	ug/kg	1.20	3.59	1
53469-21-9	Aroclor-1242	U	3.59	ug/kg	1.20	3.59	1
12672-29-6	Aroclor-1248	U	3.59	ug/kg	1.20	3.59	1
11097-69-1	Aroclor-1254	U	3.59	ug/kg	1.20	3.59	1
11096-82-5	Aroclor-1260	U	3.59	ug/kg	1.20	3.59	1

## PCB

Page 1 of 1

Certificate of Analysis  
Sample SummarySDG Number: 10-1473  
Lab Sample ID: 245803006Date Collected: 01/26/2010 12:00  
Date Received: 01/29/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD1A.I  
Analyst: YS1  
Allquot: 30.11 g  
Column: 1 CLP1  
2 CLP2Matrix: R  
%Moisture: 14.6  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOWClient ID: RE15-10-8060  
Batch ID: 949033  
Run Date: 02/05/2010 11:25  
Prep Date: 02/04/2010 20:32  
Data File: 025f2501.d  
025b2501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.89	ug/kg	1.29	3.89	1
11104-28-2	Aroclor-1221	U	3.89	ug/kg	1.29	3.89	1
11141-16-5	Aroclor-1232	U	3.89	ug/kg	1.29	3.89	1
53469-21-9	Aroclor-1242	U	3.89	ug/kg	1.29	3.89	1
12672-29-6	Aroclor-1248	U	3.89	ug/kg	1.29	3.89	1
11097-69-1	Aroclor-1254	P	74.1	ug/kg	1.29	3.89	1
11096-82-5	Aroclor-1260		47.0	ug/kg	1.29	3.89	2
11100-14-4	Aroclor-1268		35.1	ug/kg	1.29	3.89	2

Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1473

LOS ALAMOS

REQUEST NUMBER: 10-1473

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/27/2010

General Engineering Laboratories, Inc.,  
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

245803'1.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7954	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7956	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7955	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7953	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7952	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8060	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8058	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8059	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

Thursday, January 28, 2010  
**LOS ALAMOS**  
NATIONAL LABORATORY

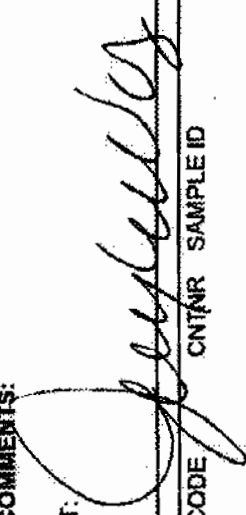
ATTN: Valerie Davis  
General Engineering Laboratories, Inc., Charleston, SC.  
2040 Savage Rd  
Charleston, SC 29407

These Samples are on:  
LANL Request Number: 10-1473  
Per Agreement Number: 126310011  
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples  
according to the schedule indicated:

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

RAD SCREENING: Not Required  
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:  
Signature: 

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	

SW-846-8321A\_MOD

Thursday, January 28, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
----------	-------------	-------	-----------	---------------	--------------	----------------------

	SW-846-8321A_MOD	1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	

Final Page of REQUEST NUMBER 10-1473





February 04, 2010

www.gel.com

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

Re: LANL ER Project  
Work Order: 245803  
SDG: 10-1473

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 29, 2010, and analyzed for Explosives by LCMSMS and GC Semivolatile PCB. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Valerie Davis  
Project Manager

Purchase Order: 72733-001-09  
Chain of Custody: 10-1473  
Enclosures

**Los Alamos National Laboratory (72733-001-09)**

**LANL ER Project**

**Work Order #: 245803**

**SDG: 10-1473**

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# CASE NARRATIVE

**Case Narrative for  
Los Alamos National Laboratory (72733-001-09)  
LANL ER Project  
Workorder #: 245803  
SDG # : 10-1473**

**February 04, 2010**

**Laboratory Identification:**

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

**Summary**

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

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

<u>Laboratory ID</u>	<u>Client ID</u>
245803001	RE15-10-7954
245803002	RE15-10-7956
245803003	RE15-10-7955
245803004	RE15-10-7953
245803005	RE15-10-7952
245803006	RE15-10-8060
245803007	RE15-10-8058
245803008	RE15-10-8059

**Case Narrative**

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

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

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



Valerie Davis  
Project Manager

**List of current GEL Certifications as of 04 February 2010**

<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**

Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1473

LOS ALAMOS

REQUEST NUMBER: 10-1473

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/27/2010

General Engineering Laboratories, Inc.,  
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

245803'1.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7954	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7956	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7955	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7953	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7952	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-8060	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8058	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8059	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



Thursday, January 28, 2010

**LOS ALAMOS**  
NATIONAL LABORATORY

ATTN: Valerie Davis

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

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 1/28/2010

TURNAROUND/REPORT DUE: 2/27/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

Page 1 of 2

REQUEST NUMBER: 10-1473

These Samples are on:

LANL Request Number: 10-1473

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNT	R	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1		RE15-10-8058	R	1/26/2010	
		1		RE15-10-8059	R	1/26/2010	
		1		RE15-10-8060	R	1/26/2010	
		1		RE15-10-7952	R	1/26/2010	
		1		RE15-10-7953	R	1/26/2010	
		1		RE15-10-7954	R	1/26/2010	
		1		RE15-10-7955	R	1/26/2010	
		1		RE15-10-7956	R	1/26/2010	
		1		RE15-10-8058	R	1/26/2010	

Thursday, January 28, 2010

Page 2 of 2  
REQUEST NUMBER: 10-1473

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	

Final Page of REQUEST NUMBER 10-1473

## SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-1473	
Received By: Patricia Dover-Dent		Date Received: January 29, 2009	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60 CPM
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

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

**Comments: FEDEX#S**

7209 7849 7419 11C	7209 7849 7522 6C
7209 7849 7500 5C	7209 7849 7533 1C
7209 7849 7452 2C	7209 7849 7544 1C
7209 7849 7474 1C	7209 7849 7420 10C
7209 7849 7441 4C	7209 7849 7496 2C
7209 7849 7463 3C	7209 7849 7485 3C
7209 7849 7430 10C	7209 7849 7408 12C
7209 7849 7511 6C	

ORIGIN ID: SAFA (505) 865-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA80 BLDG 1237 DFU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US  
SHIP DATE: 28 JAN 10  
ACTWGT: 50.0 LB MAN  
CRD: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 856-8171  
REF: 68010AMR2005153YDO



FRI - 29 JAN A1  
PRIORITY OVERNIGHT

3 of 3  
MPS# 7209 7849 7419  
Matr# 7209 7849 7393 0201

29407  
SC-US  
CHS

XX CHSA



ORIGIN ID: SAFA (505) 865-9358  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA80 BLDG 1237 DFU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US  
SHIP DATE: 28 JAN 10  
ACTWGT: 50.0 LB MAN  
CRD: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 856-8171  
REF: 68010AMR1A015AGMKD



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PRIORITY OVERNIGHT

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

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CHS

XX CHSA



ORIGIN ID: SFPA (505) 865-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TR00 BLDG 1237 DPU 03  
CRO: 0014176/CAFE2449

SHIP DATE: 28 JAN 8  
ACTWGT: 53.8 LB  
CRO: 0014176/CAFE2449

BILL SENDER  
LOS ALAMOS, NM 87545  
UNITED STATES US

VALERIE DAVIS

GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171  
REF: 68010MR1A015AGWKO

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Express



FRI - 29 JAN A1  
PRIORITY OVERNIGHT

2 of 2  
NPS# 7209 7849 7474  
0263

Mat#N 7209 7849 7463 0201

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SC-US  
CHS



ORIGIN ID: SFPA (505) 865-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TR00 BLDG 1237 DPU 03  
CRO: 0014176/CAFE2449

SHIP DATE: 28 JAN 8  
ACTWGT: 47.8 LB  
CRO: 0014176/CAFE2449

BILL SENDER  
LOS ALAMOS, NM 87545  
UNITED STATES US

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171  
REF: 68010MR3A0529E00

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Express



FRI - 29 JAN A1  
PRIORITY OVERNIGHT

TRKH 7209 7849 7452  
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SHIP DATE: 28JAN18  
ACTNCT: E2 8 LB NON  
CRD: 0014176/SAFE2449

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ORIGIN ID: SAFE (505) 685-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T868 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 856-8171  
REF: 686100NR3003529C00

FedEx  
Express



FRI - 29JAN A1  
PRIORITY OVERNIGHT

1 of 2  
TAX# 7209 7849 7430  
9263  
NR MASTER NH

29407  
SC-US  
CHS

XX CHSA



Part # 156143-434 NR1V3 04-05

ORIGIN ID: SAFE (505) 685-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T868 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 856-8171  
REF: 686100NR1A0159GJIK0

FedEx  
Express



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PRIORITY OVERNIGHT

2 of 2  
TAX# 7209 7849 7511  
9263  
Matr# 7208 7849 7500 9261

29407  
SC-US  
CHS

XX CHSA



Part # 156143-434 NR1V3 04-05

ORIGIN ID: SAFA (506) 865-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
T880 BLDG-1237 CPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 28JAN10  
ACTMGT: 54.9 LB WGN  
CRD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

*LC*

CHARLESTON SC 29407

(943) 896-8171  
REF: 68610CFR100156GINKO

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FRI - 29JAN A1  
PRIORITY OVERNIGHT

TRK# 7209 7849 7522  
8201

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Part # 156143-431 NRTV3 04-08



238

ORIGIN ID: SAFA (505) 685-8068  
JOYLENE VALDEZ  
LOS ALAMOS NAT'L LAB  
TAGB BLDG 1237 DPU 03

SHIP DATE: 26 JAN 10  
ACTING: 50.0 LB PMN  
CRO: 0014176/CAPE2449

LOS ALAMOS, NM 87545  
UNITED STATES US

BILL SENDER

VALERIE DAVIS

GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(943) 552-9171

REF: 000100000015635000

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Express



FRI - 29 JAN A1  
PRIORITY OVERNIGHT

TRK# 7209 7849 7533

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SC-US  
CHS



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7544  
01.29

ORIGIN ID: SAFA (505) 685-8068  
JOYLENE VALDEZ  
LOS ALAMOS NAT'L LAB  
TAGB BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(943) 552-9171

REF: 000100000015635000

FedEx  
Express



FRI - 29 JAN A1  
PRIORITY OVERNIGHT

TRK# 7209 7849 7544

0201

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SC-US  
CHS



Part # 150148-434 NRT V3 04-03

ORIGIN ID: 50FA (506) 865-8868  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
1700 BLDG 1237 DU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 29JAN18  
ACTMGT: 511 9 LB MAN  
CRD: 0014176/CAFE2448

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 554-9171  
REF: 000100NR200515BYDO



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EXPRESS



TRK# 7209 7849 7420  
FRI - 29JAN A1  
PRIORITY OVERNIGHT

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SC-US  
CHS



ORIGIN ID: 50FA (506) 865-8868  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
1700 BLDG 1237 DU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 29JAN18  
ACTMGT: 511 9 LB MAN  
CRD: 0014176/CAFE2448

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 554-9171  
REF: 000100NR100150GAKO



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EXPRESS



2 of 2  
NPS# 7209 7849 7406  
FRI - 29JAN A1  
PRIORITY OVERNIGHT

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SC-US  
CHS



Part # 156143-434 NRT V3 04-00

ORIGIN ID: SFR (5857-046-9948)  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
1800 BLDG 1237 DRU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 29JAN10  
ACTING: 49 8 LB MAN  
CRO: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 554-8171  
REF: 680100W198150GAKO

FedEx  
Express



FRI - 29JAN A1  
PRIORITY OVERNIGHT

1 of 2  
TRK# 7289 7849 7485  
0283

NON MASTER IN

XX CHSA

29407  
SC-US  
CHS



ORIGIN ID: SFR (5857-046-9948)  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
1800 BLDG 1237 DRU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 29JAN10  
ACTING: 49 8 LB MAN  
CRO: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 554-8171  
REF: 680100W198150GAKO

FedEx  
Express



FRI - 29JAN A1  
PRIORITY OVERNIGHT

1 of 3  
TRK# 7289 7849 7485  
0283

NON MASTER IN

XX CHSA

29407  
SC-US  
CHS



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# **Data Review Qualifier Flag Definition Sheet**

## Data Review Qualifier Definitions

Qualifier    Explanation

- \*    A quality control analyte recovery is outside of specified acceptance criteria
- \*\*    Analyte is a surrogate compound
- <    Result is less than value reported
- >    Result is greater than value reported
- ^    RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
- A    The TIC is a suspected aldol-condensation product
- B    Target analyte was detected in the associated blank
- B    Metals-Either presence of analyte detected in the associated blank, or  
MDL/IDL < sample value < PQL
- BD    Results are either below the MDC or tracer recovery is low
- C    Analyte has been confirmed by GC/MS analysis
- D    Results are reported from a diluted aliquot of the sample
- d    5-day BOD-The 2:1 depletion requirement was not met for this sample
- E    Organics-Concentration of the target analyte exceeds the instrument calibration range
- E    Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H    Analytical holding time was exceeded
- h    Preparation or preservation holding time was exceeded
- J    Value is estimated
- N    Metals-The Matrix spike sample recovery is not within specified control limits
- N    Organics-Presumptive evidence based on mass spectral library search to make a tentative  
identification of the analyte (TIC). Quantitation is based on nearest internal standard  
response factor
- N/A    Spike recovery limits do not apply. Sample concentration exceeds spike concentration  
by 4X or more
- ND    Analyte concentration is not detected above the reporting limit
- UI    Gamma Spectroscopy-Uncertain identification
- X    Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y    QC Samples were not spiked with this compound
- Z    Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

# LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative  
Los Alamos National Laboratory (LANL)  
SDG 10-1473**

**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:** 947084

**Prep Batch Number:** 947080

**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>
245803001	RE15-10-7954
245803002	RE15-10-7956
245803003	RE15-10-7955
245803004	RE15-10-7953
245803005	RE15-10-7952
245803006	RE15-10-8060
245803007	RE15-10-8058
245803008	RE15-10-8059
1202028676	Method Blank (MB)
1202028677	Laboratory Control Sample (LCS)
1202028678	245663001(RE16-10-1343) Matrix Spike (MS)
1202028679	245663001(RE16-10-1343) Matrix Spike Duplicate (MSD)

10-1473-EXPLCMS

Page 1 of 5

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

#### **SOP Reference**

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

#### **Primary Analyte Analysis**

### **Calibration Information**

#### **Initial Calibration**

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

#### **Calibration Verification Standard Requirements**

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

#### **Calibration Blank Requirements**

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

#### **CRI Requirements**

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

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

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

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

#### **Surrogate Recoveries**

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

#### **Laboratory Control Sample (LCS) Recovery**

The LCS spike recoveries were within the established acceptance limits.

#### **QC Sample Designation**

Client sample 245663001 (RE16-10-1343) from SDG 10-1436 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.

10-1473-EXPLCMS

Page 2 of 5



## **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 or sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

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

All procedures were performed as stated in the SOP.

### **Sample Dilutions**

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 245663001 (RE16-10-1343) from SDG 10-1436 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

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

The MS recovered TATB at 175%. The limits are 29-155%. The MSD confirmed the high recovery at 178% which may be attributed to matrix interference in the sample. The LCS had a passing recovery of 160%. TATB was not detected in the parent sample. The data are considered unaffected and are reported. Please see data exception report 791288.

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

The MSD recovered TATB at 178%. The limits are 29-155%. The MS confirmed the high recovery at 175% which may be attributed to matrix interference in the sample. The LCS had a passing recovery of 160%. TATB was not detected in the parent sample. The data are considered unaffected and are reported. Please see data exception report 791288.

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

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

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

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

#### **Technical Information**

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

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

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

All procedures were performed as stated in the SOP.

##### **Sample Dilutions**

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

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

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

#### **Miscellaneous Information**

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

Data exception report 791288 was generated for this SDG.

The MS recovered TATB at 175%. The MSD recovered TATB at 178%. The limits are 29-155%. The LCS had a passing recovery of 160%. TATB was not detected in the parent sample. The data are considered unaffected and are reported.

##### **Manual Integrations**

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

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### **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: Herbert M. Maurer

Date: 02/17/10

10-1473-EXPLCMS

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# SAMPLE DATA SUMMARY

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7954

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803001

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208171a

Date Analyzed: 12-FEB-10 02:21

Units: ug/kg

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

\*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7954

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803001

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120052.wiff

Date Analyzed: 13-FEB-10 00:47

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7956

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803002

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208172a

Date Analyzed: 12-FEB-10 02:50

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7956

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803002

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120053.wiff

Date Analyzed: 13-FEB-10 01:03

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: RE15-10-7955

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803003

Sample Amount 2

Molsture: \*\*\*\*\*

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208173a

Date Analyzed: 12-FEB-10 03:20

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7955

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803003

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120054.wiff

Date Analyzed: 13-FEB-10 01:18

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7953

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803004

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208174a

Date Analyzed: 12-FEB-10 03:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	193	J
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: RE15-10-7953

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803004

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120055.wiff

Date Analyzed: 13-FEB-10 01:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	500	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: RE15-10-7952

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803005

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208175a

Date Analyzed: 12-FEB-10 04:19

Units: ug/kg

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

\*Concentration =

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

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7952

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803005

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120056.wiff

Date Analyzed: 13-FEB-10 01:50

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8060

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803006

Sample Amount 2

Moisture: 14.6

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208176a

Date Analyzed: 12-FEB-10 04:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	282	J
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

\*Concentration =

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

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8060

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803006

Sample Amount 2

Moisture: 14.6

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120057.wiff

Date Analyzed: 13-FEB-10 02:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	312	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: RE15-10-8058

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803007

Sample Amount 2

Moisture: 35.9

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208177a

Date Analyzed: 12-FEB-10 05:18

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8058

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803007

Sample Amount 2

Moisture: 35.9

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120058.wiff

Date Analyzed: 13-FEB-10 02:21

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8059

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803008

Sample Amount 2

Moisture: 7.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208178a

Date Analyzed: 12-FEB-10 05:48

Units: ug/kg

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

\*Concentration =

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

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8059

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803008

Sample Amount 2

Moisture: 7.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120059.wiff

Date Analyzed: 13-FEB-10 02:37

Units: ug/kg

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

\*Concentration =

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

# QUALITY CONTROL SUMMARY

# High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
245803001	RE15-10-7954	117	70 - 144	
245803001	RE15-10-7954	117	70 - 144	
245803002	RE15-10-7956	109	70 - 144	
245803002	RE15-10-7956	126	70 - 144	
245803003	RE15-10-7955	102	70 - 144	
245803003	RE15-10-7955	133	70 - 144	
245803004	RE15-10-7953	111	70 - 144	
245803004	RE15-10-7953	132	70 - 144	
245803005	RE15-10-7952	106	70 - 144	
245803005	RE15-10-7952	129	70 - 144	
245803006	RE15-10-8060	114	70 - 144	
245803006	RE15-10-8060	127	70 - 144	
245803007	RE15-10-8058	108	70 - 144	
245803007	RE15-10-8058	130	70 - 144	
245803008	RE15-10-8059	113	70 - 144	
245803008	RE15-10-8059	133	70 - 144	
1202028676	MB for batch 947080	115	70 - 144	
1202028676	MB for batch 947080	124	70 - 144	
1202028677	LCS for batch 947080	104	70 - 144	
1202028677	LCS for batch 947080	126	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) 10-1473

Extract Batch Code: 947080

Date Extracted: 04-FEB-10

GEL LCS ID: 1202028677

GEL LCSDUP ID:

Analysis Date/Time: 11-FEB-10 20:27

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	4160	83.2					69 – 126
2,4,6-Trinitrotoluene	5000	4730	94.6					73 – 149
2,4-Dinitrotoluene	5000	5080	102					87 – 137
2,6-Dinitrotoluene	5000	5010	100					89 – 120
2-Amino-4,6-dinitrotoluene	5000	4850	97.1					90 – 130
4-Amino-2,6-dinitrotoluene	5000	4700	94					84 – 130
HMX	5000	4950	98.9					58 – 138
Nitrobenzene	5000	5020	100					71 – 122
PETN	5000	5390	108					64 – 137
RDX	5000	4890	97.9					81 – 137
Tetryl	5000	2590	51.8					51 – 112
m-Dinitrobenzene	5000	5020	100					83 – 122
m-Nitrotoluene	5000	4690	93.9					73 – 118
o-Nitrotoluene	5000	4900	98					72 – 119
p-Nitrotoluene	5000	5090	102					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) 10-1473

Extract Batch Code: 947080

Date Extracted: 04-FEB-10

GEL LCS ID: 1202028677

GEL LCSDUP ID:

Analysis Date/Time: 12-FEB-10 21:38

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,4-Diamino-6-nitrotoluene	5000	4730	94.6					52 - 114
2,6-Diamino-4-nitrotoluene	5000	5340	107					64 - 122
3,5-Dinitroaniline	5000	5310	106					70 - 127
TATB	5000	8020	160					28 - 162
tris(o-cresyl) phosphate	5000	5150	103					84 - 119

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

\* Values outside of QC limits



# High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE16-10-1343

Lab Code: GEL

GEL Job No (SDG) 10-1473

Extract Batch Code: 947080

Date Extracted: 04-FEB-10

GEL Spike ID: 1202028678

GEL SpikeDup ID: 1202028679

Analysis Date/Time: 11-FEB-10 21:26

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	4630	92.6	4810	96.2	3.91	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	5840	117	5330	107	9.21	30	76 - 144
2,4-Dinitrotoluene	5000	0	4970	99.3	5390	108	8.21	30	86 - 135
2,6-Dinitrotoluene	5000	0	5130	103	5150	103	.267	30	90 - 118
2-Amino-4,6-dinitrotoluene	5000	0	6070	121	5970	119	1.72	30	85 - 137
4-Amino-2,6-dinitrotoluene	5000	0	5550	111	5170	103	7.16	30	72 - 143
HMX	5000	0	4970	99.4	5670	113	13.2	30	51 - 144
Nitrobenzene	5000	0	5070	101	5380	108	5.97	30	70 - 122
PETN	5000	0	5750	115	5380	108	6.68	30	60 - 140
RDX	5000	0	5140	103	6000	120	15.6	30	59 - 152
Tetryl	5000	0	4720	94.4	4880	97.7	3.37	30	36 - 124
m-Dinitrobenzene	5000	0	5240	105	5260	105	.365	30	85 - 118
m-Nitrotoluene	5000	0	4740	94.7	4400	87.9	7.48	30	70 - 120
o-Nitrotoluene	5000	0	5010	100	4700	93.9	6.45	30	69 - 123
p-Nitrotoluene	5000	0	5300	106	4720	94.3	11.5	30	65 - 133

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

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE16-10-1343

Lab Code: GEL

GEL Job No (SDG) 10-1473

Extract Batch Code: 947080

Date Extracted: 04-FEB-10

GEL Spike ID: 1202028678

GEL SpikeDup ID: 1202028679

Analysis Date/Time: 12-FEB-10 22:10

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	4680	93.6	5140	103	9.37	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	5840	117	6040	121	3.37	30	55 - 130
3,5-Dinitroaniline	5000	0	5380	108	5780	116	7.17	30	73 - 129
TATB	5000	0	8760	175 *	8890	178 *	1.47	30	29 - 155
tris(o-cresyl) phosphate	5000	0	5310	106	5090	102	4.23	30	72 - 127

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

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-FEB-10 14:44

GEL Data File: EXP0208001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	481.075
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	515.914
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qtd, Time: Tue Feb 09 10:19:05 2010

Method: C:\MASSLYNX\New\_Exp.PRO\MethDB\020810expa.mdb, Time: Tue Feb 09 09:17:48 2010

Calibration: Untitled, Time: Tue Feb 09 10:19:05 2010

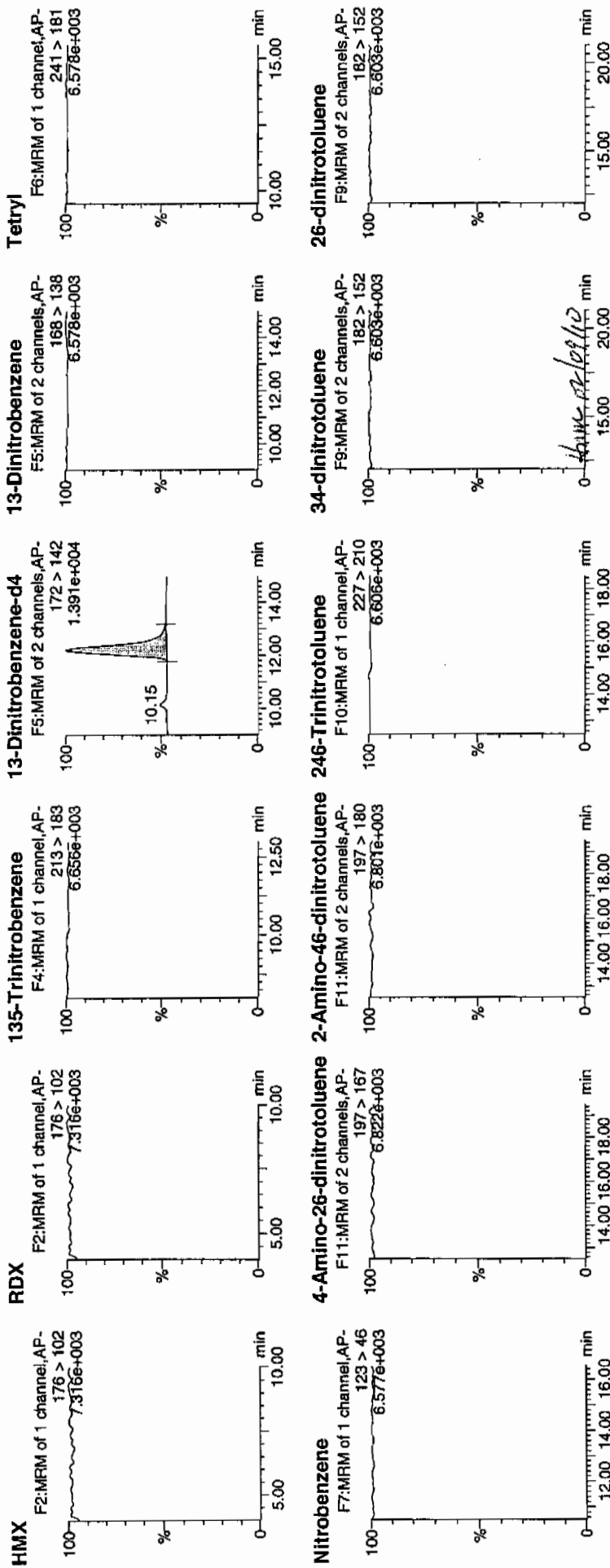
Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208001a

Date: 08-Feb-2010

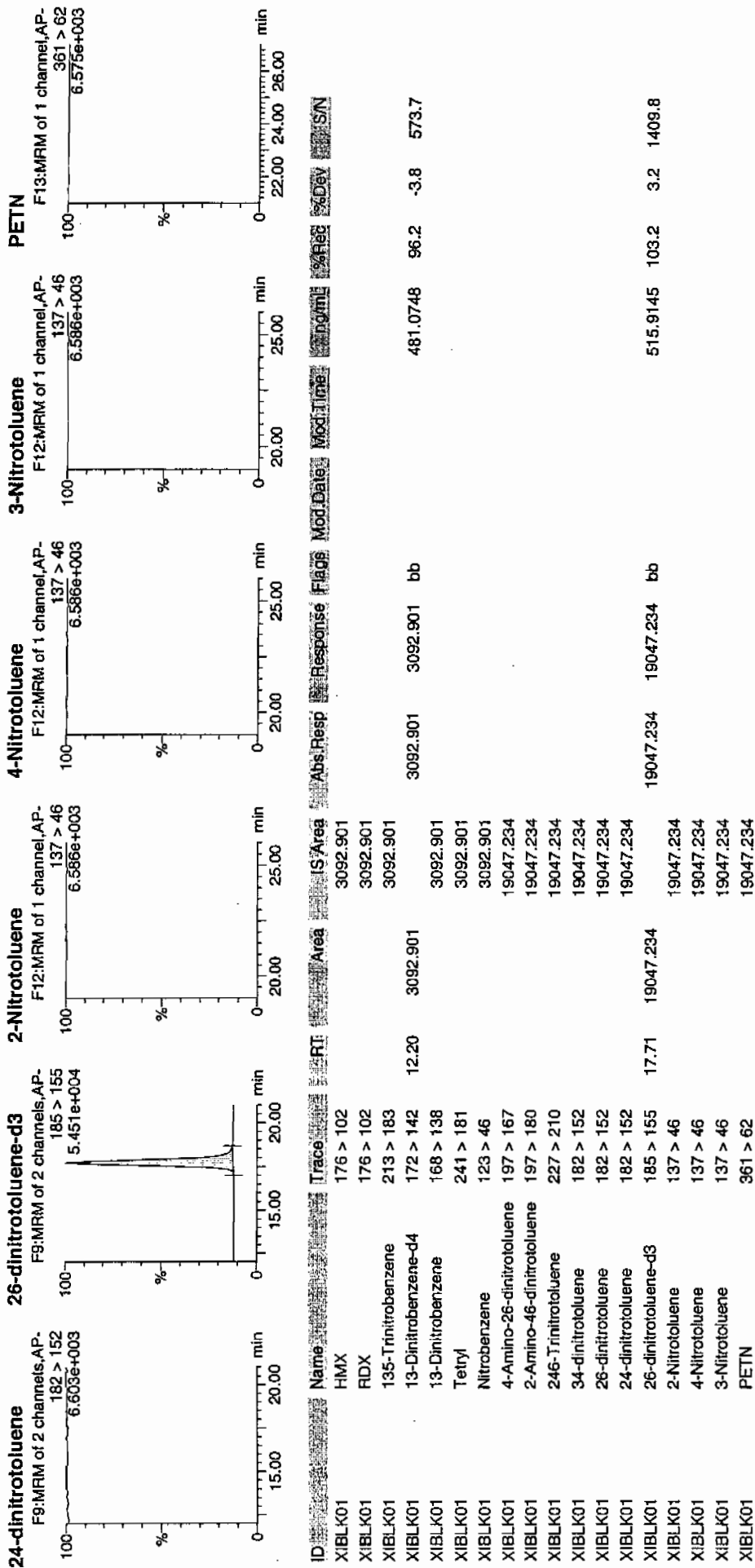
Time: 14:44:17

ID: XIBLK01

Vial: 1:1,A



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-FEB-10 15:13

GEL Data File: EXP0208002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
Tetryl	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	552.32
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	568.377
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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208002a

Date: 08-Feb-2010

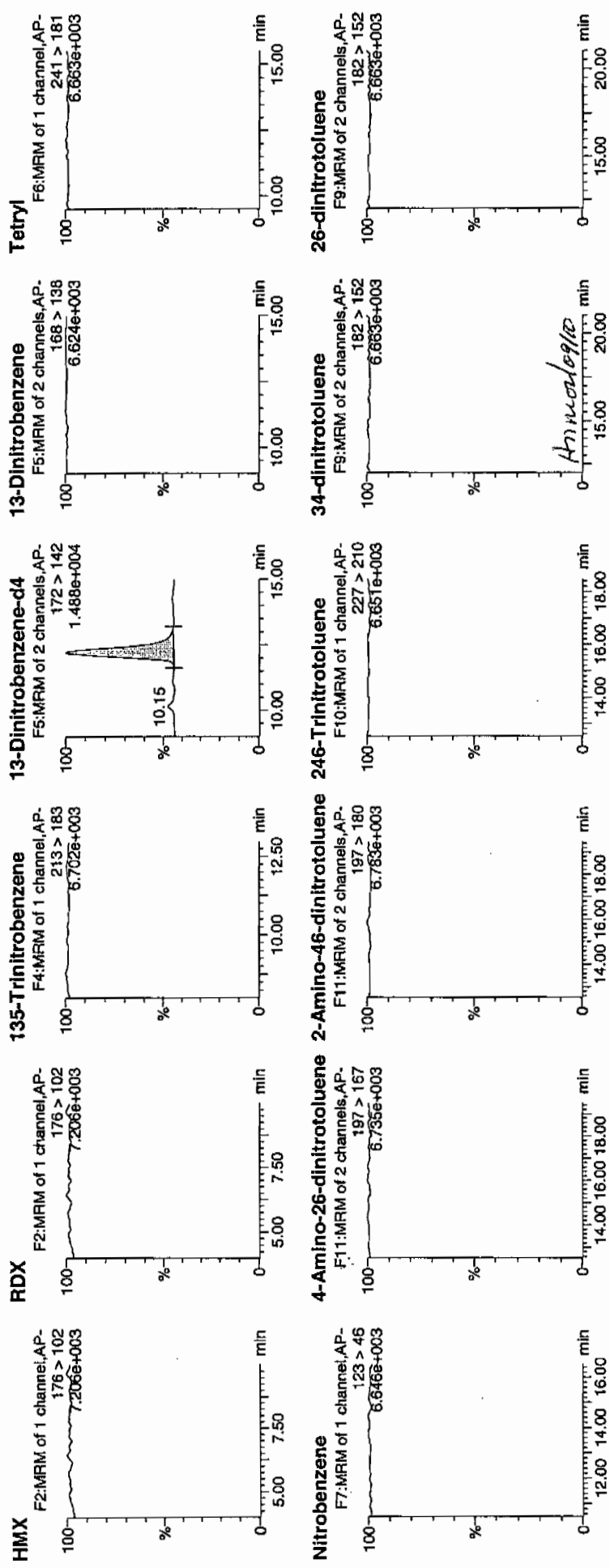
Time: 15:13:49

ID: XIBLK01

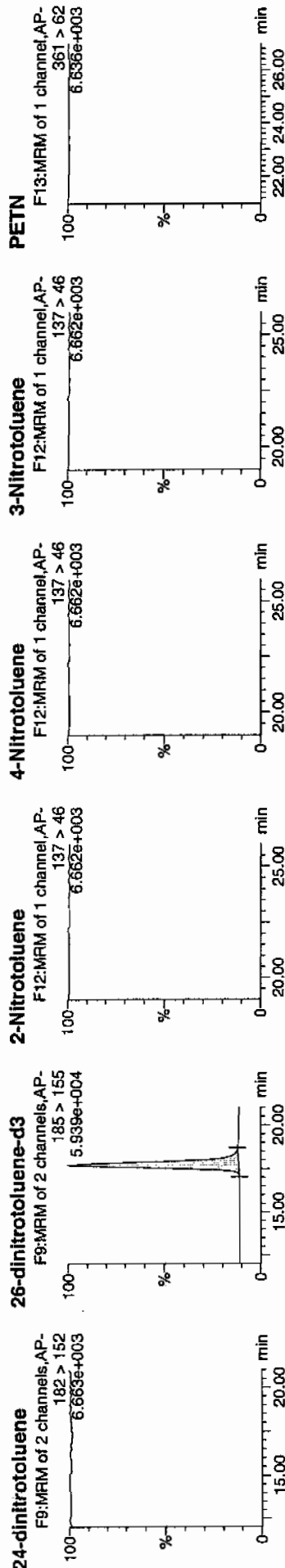
Vial: 1:1,A

2/9/10

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Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Dev	S/N
XIBLK01	HMX	176 > 102			3550.947								
XIBLK01	RDX	176 > 102			3550.947								
XIBLK01	135-Trinitrobenzene	213 > 183			3550.947								
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.20	3550.947									
XIBLK01	13-Dinitrobenzene	168 > 138			3550.947								
XIBLK01	Tetryl	241 > 181			3550.947								
XIBLK01	Nitrobenzene	123 > 46			3550.947								
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			20984.104								
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			20984.104								
XIBLK01	246-Trinitrotoluene	227 > 210			20984.104								
XIBLK01	34-dinitrotoluene	182 > 152			20984.104								
XIBLK01	26-dinitrotoluene	182 > 152			20984.104								
XIBLK01	24-dinitrotoluene	182 > 152			20984.104								
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.72	20984.104									
XIBLK01	2-Nitrotoluene	137 > 46			20984.104								
XIBLK01	4-Nitrotoluene	137 > 46			20984.104								
XIBLK01	3-Nitrotoluene	137 > 46			20984.104								
XIBLK01	PETN	361 > 62			20984.104								
						20984.104	20984.104	bb			113.7	13.7	1591.1
						3550.947	3550.947	bb			110.5	10.5	593.6
						552.3201	552.3201						
						588.3767	588.3767						



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-FEB-10 11:26

GEL Data File: EXS02120001.wiff

Instrument ID: LCMSMS

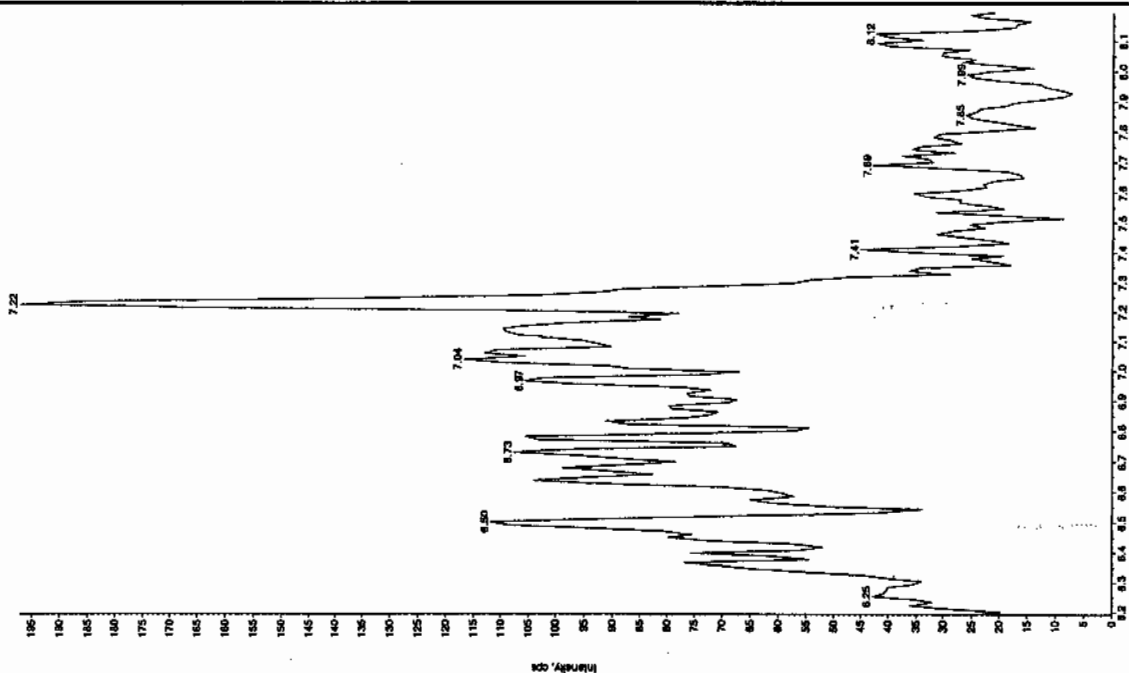
Column: Phenomenex Ultra<sup>®</sup>carb 5u ODS(20)

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 7/15/10

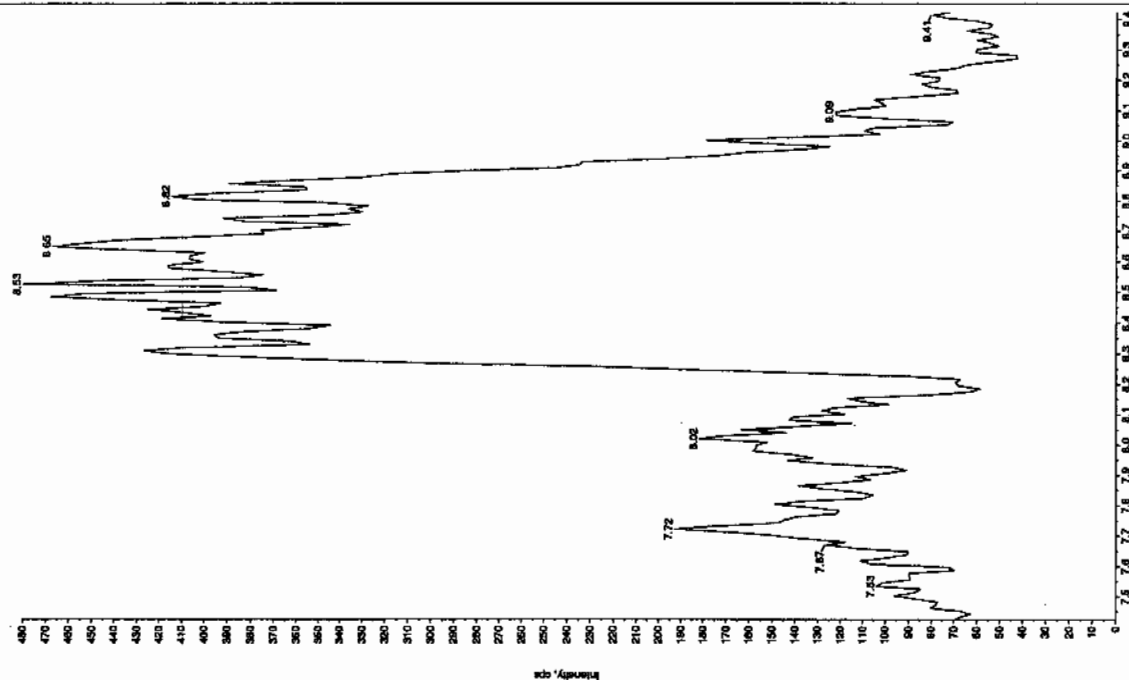
Sample Name: "XIBLK01" Sample ID: "TILER" File: "EX502120001.wiff"  
 Peak Name: "TATB" Mass(es): "257.2804.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:26:28 AM  
 Modified: No



Sample Name: "XIBLK01" Sample ID: "TILER" File: "EX502120001.wiff"  
 Peak Name: "35-Dinitroanthracene" Mass(es): "182.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

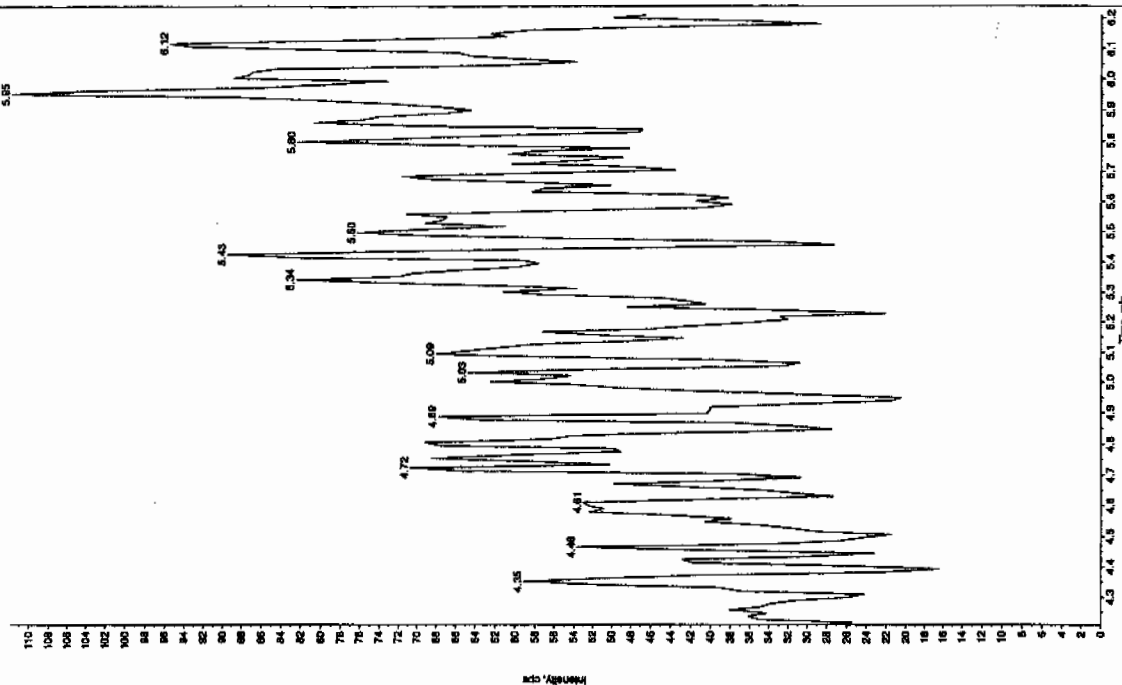
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:26:28 AM  
 Modified: No



HW-02/15/10

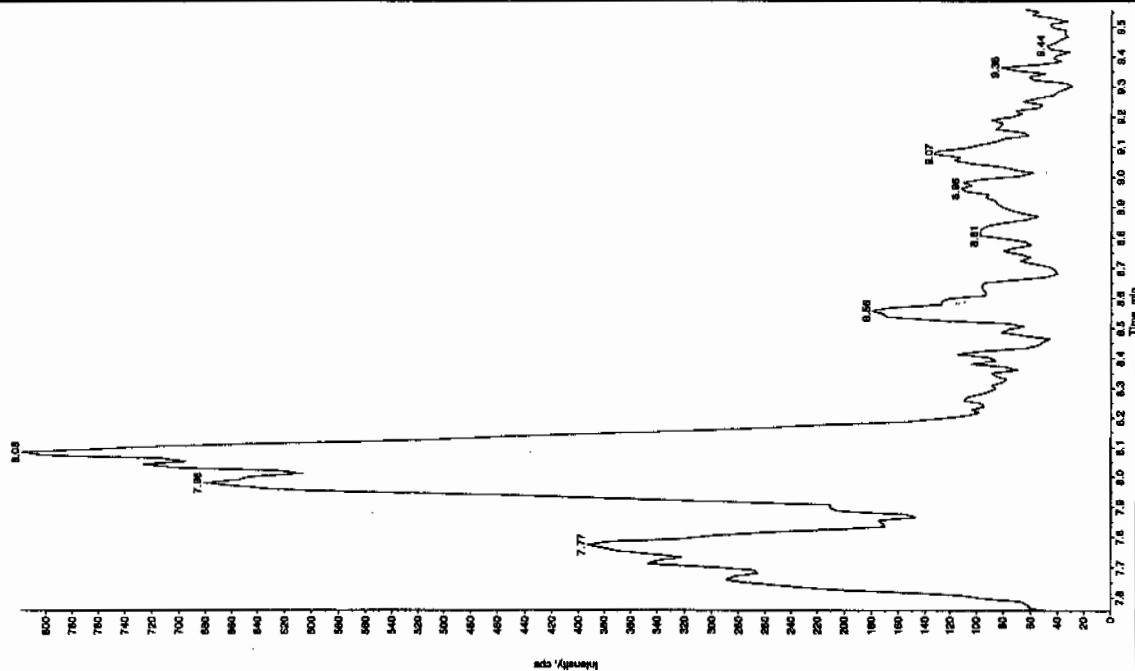
Sample Name: "XBLK01" Sample ID: "1111" File: "EXS02120001.wif"  
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.0460 amu"  
 Comment: "LCMS/EXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:26:28 AM  
 Modified: No



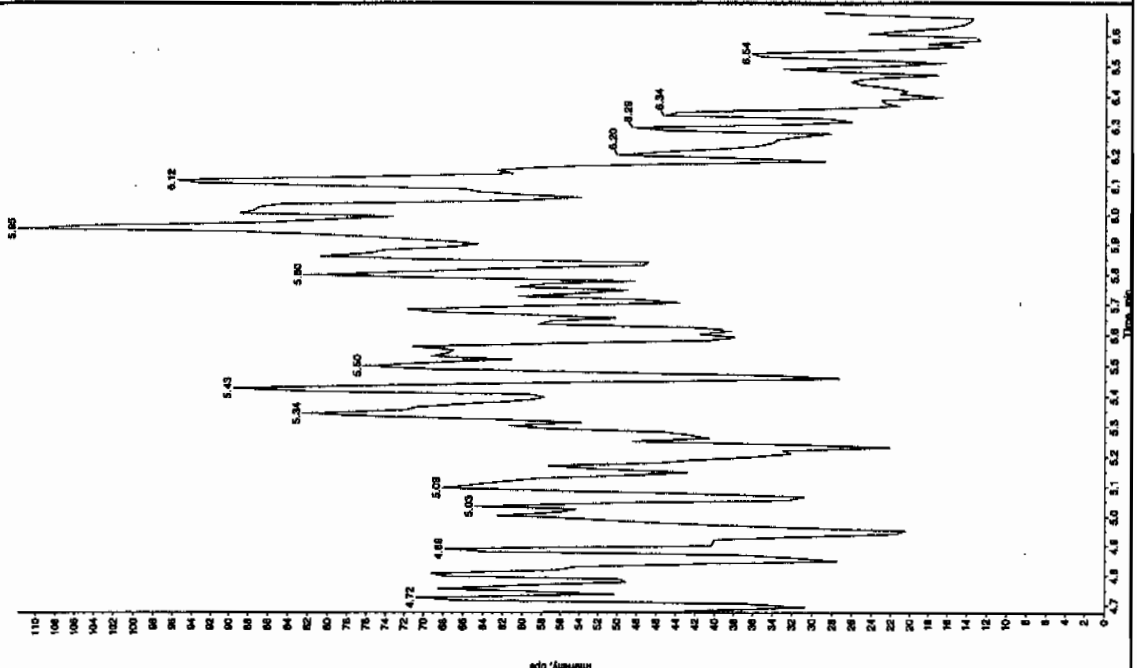
Sample Name: "XBLK01" Sample ID: "1111" File: "EXS02120001.wif"  
 Peak Name: "34-Oxobutanoic" Mass(es): "182.1519 amu"  
 Comment: "LCMS/EXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:26:28 AM  
 Modified: No



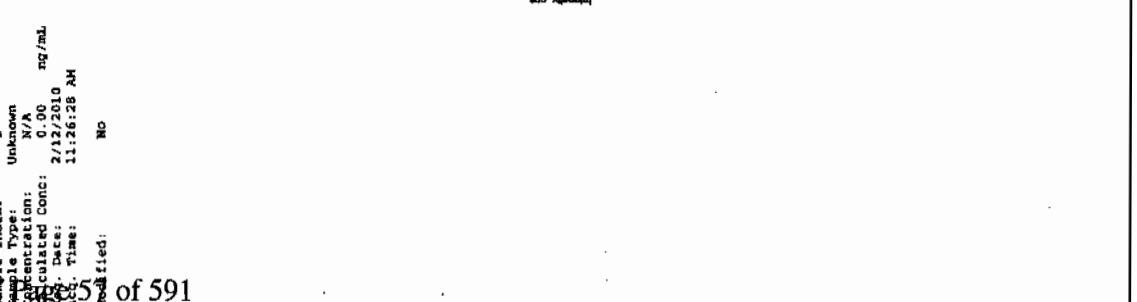
Sample Name: "XBLK001" Sample ID: "J1LER" File: "EXS02120001.wif"  
 Peak Name: "bis(4-chlorophenyl) phosphite" Mass(es): "369.191.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:26:28 AM  
 Modified: No



Sample Name: "XBLK001" Sample ID: "J1LER" File: "EXS02120001.wif"  
 Peak Name: "24-Diamino-6-nitrocholine" Mass(es): "166.048.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:26:28 AM  
 Modified: No



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-FEB-10 11:42

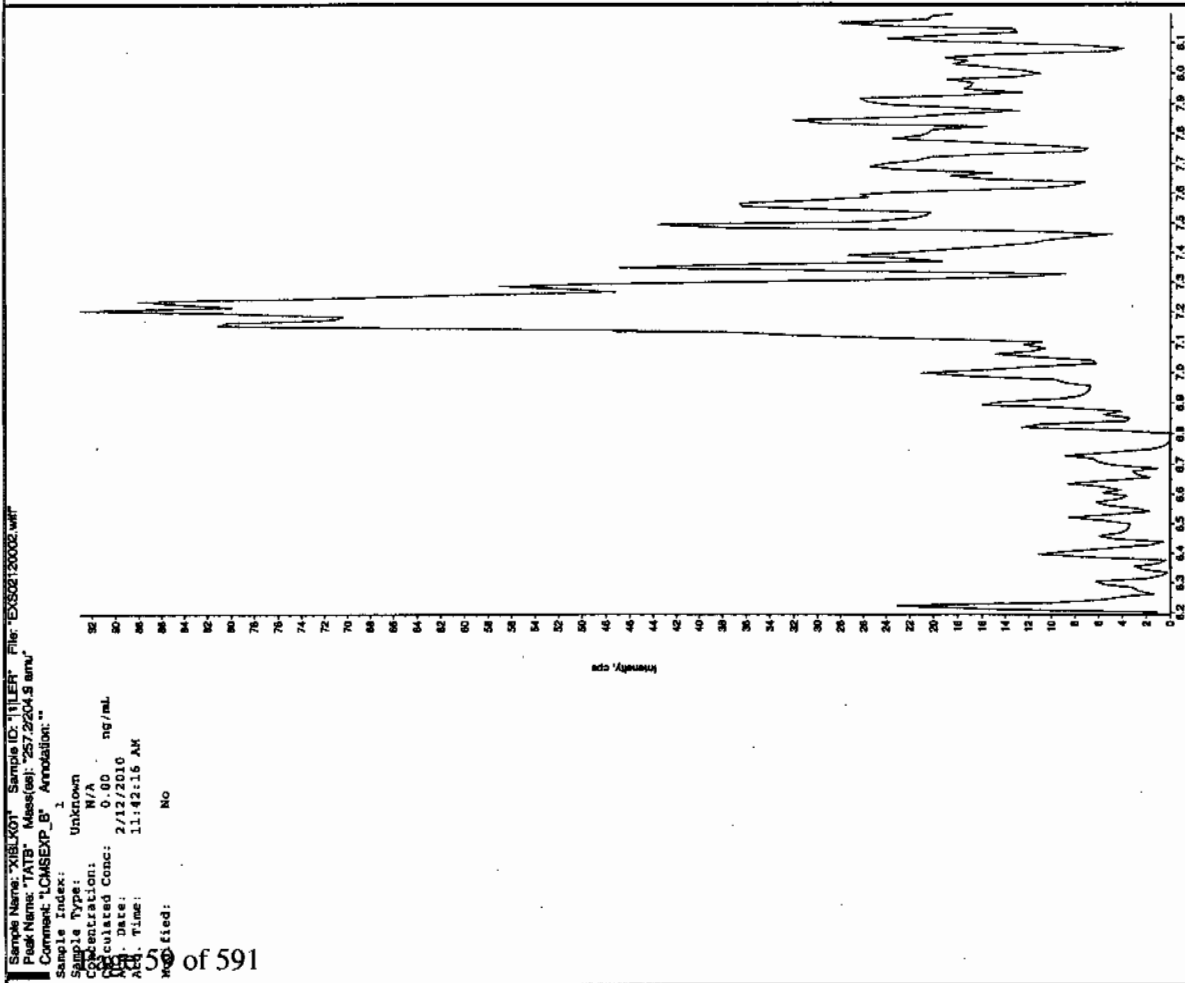
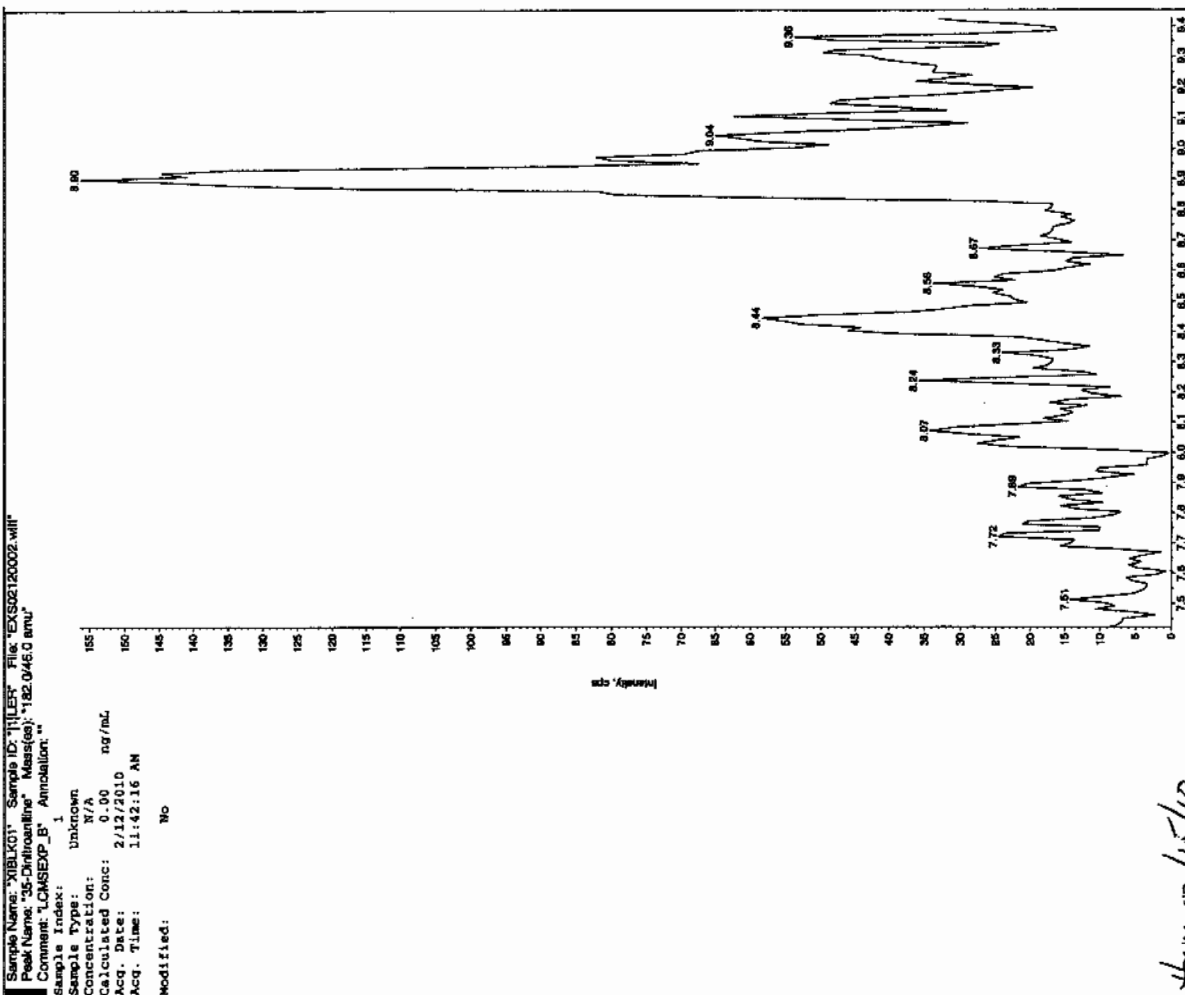
GEL Data File: EXS02120002.wiff

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

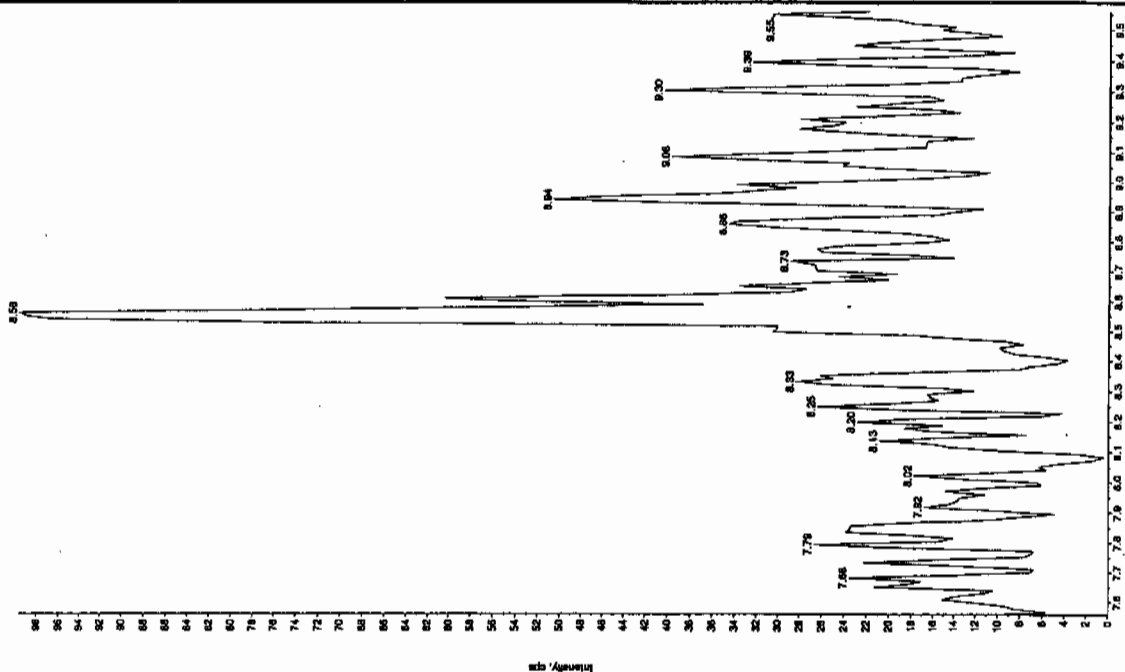
2/15/10  
Jung



Amv 02/15/10

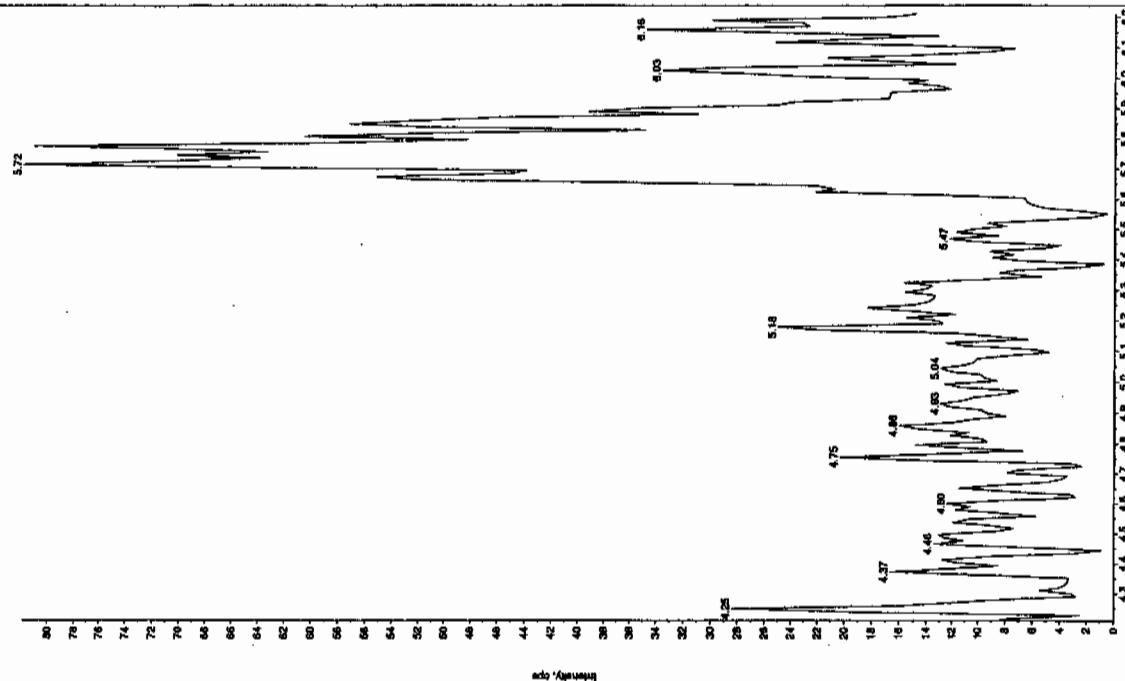
Sample Name: "XIBLK01" Sample ID: "T11ER" File: "EXS02120002.wiff"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:42:16 AM  
 Modified: No



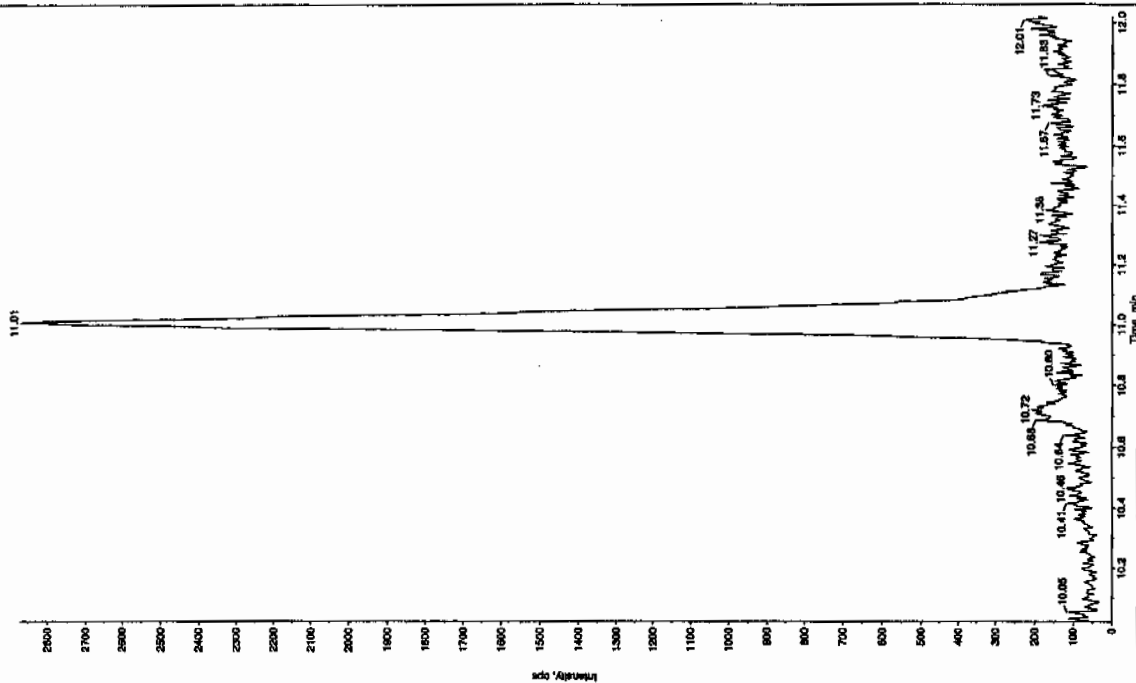
Sample Name: "XIBLK01" Sample ID: "T11ER" File: "EXS02120002.wiff"  
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.0466.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:42:16 AM  
 Modified: No



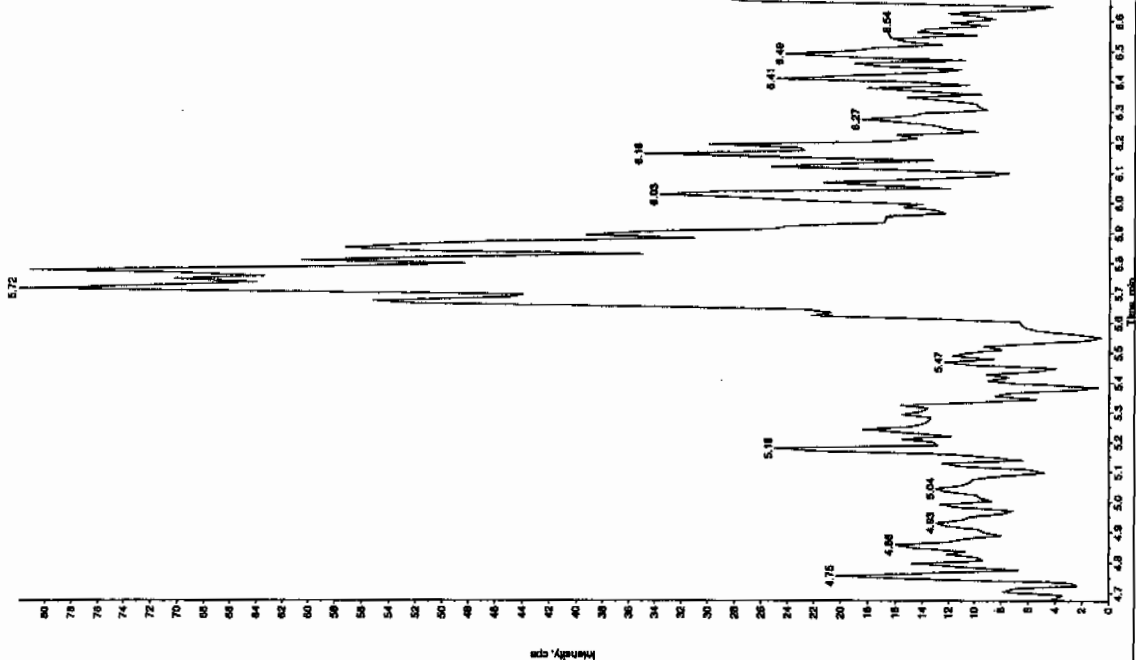
Sample Name: "XIBLX01" Sample ID: "11LEF" File: "EXS0212002.wif"  
 Peak Name: "1,3-bis(4-chlorophenyl)propane" Mass(es): "393.181.0 amu"  
 Comment: "LCMSXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:42:16 AM  
 Modified: No



Sample Name: "XIBLX01" Sample ID: "11LEF" File: "EXS0212002.wif"  
 Peak Name: "24-Diamino-6-nitrophenol" Mass(es): "165.045.0 amu"  
 Comment: "LCMSXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 11:42:16 AM  
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 08-FEB-10 18:40

GEL Data File: EXP0208009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	519.67
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	546.786
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208009a

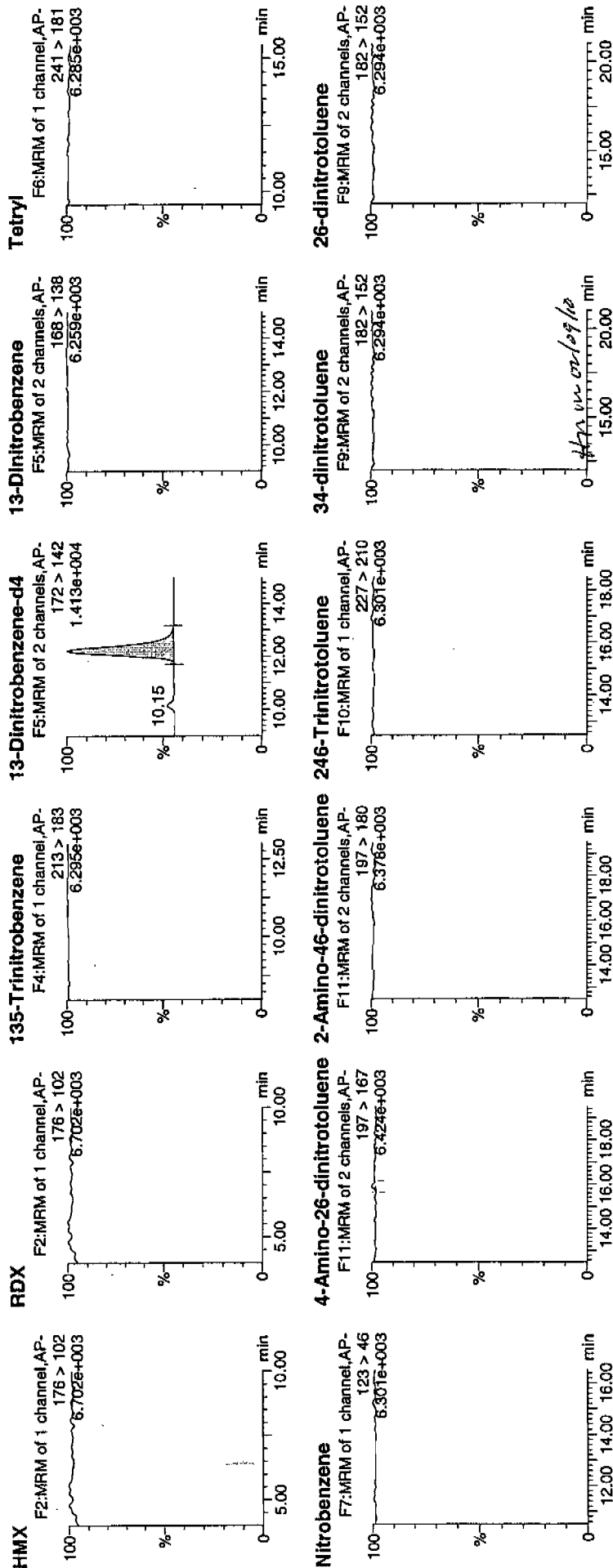
Date: 08-Feb-2010

Time: 18:40:36

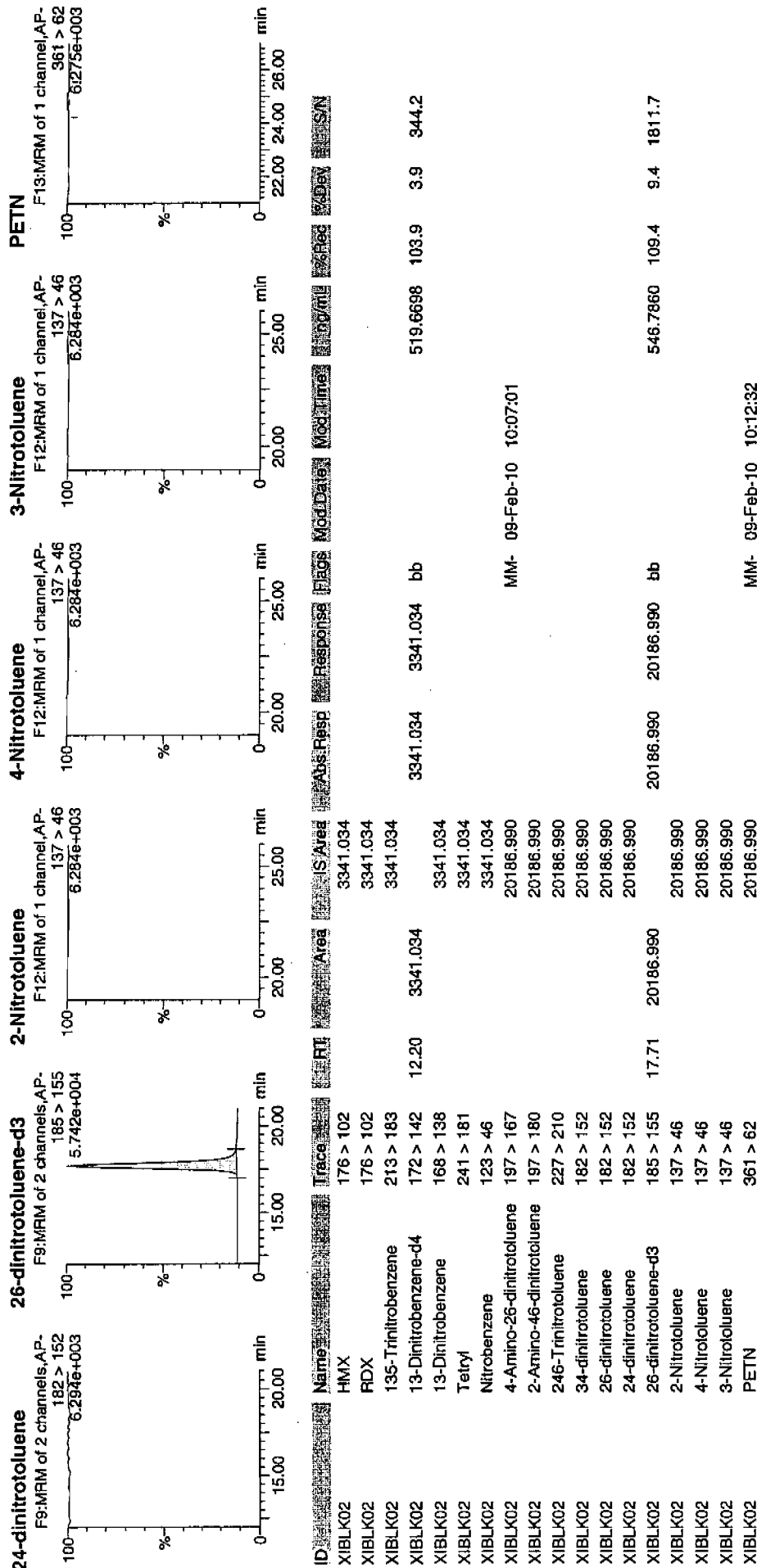
ID: XIBLK02

Vial: 1:1.A

MT  
2/9/10



Dataset: C:\MASSLYNX\New\_Exp\PRO020810expA.qld, Time: Tue Feb 09 10:19:05 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 08-FEB-10 19:39

GEL Data File: EXP0208011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	583.46
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	534.714
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qtd, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208011a

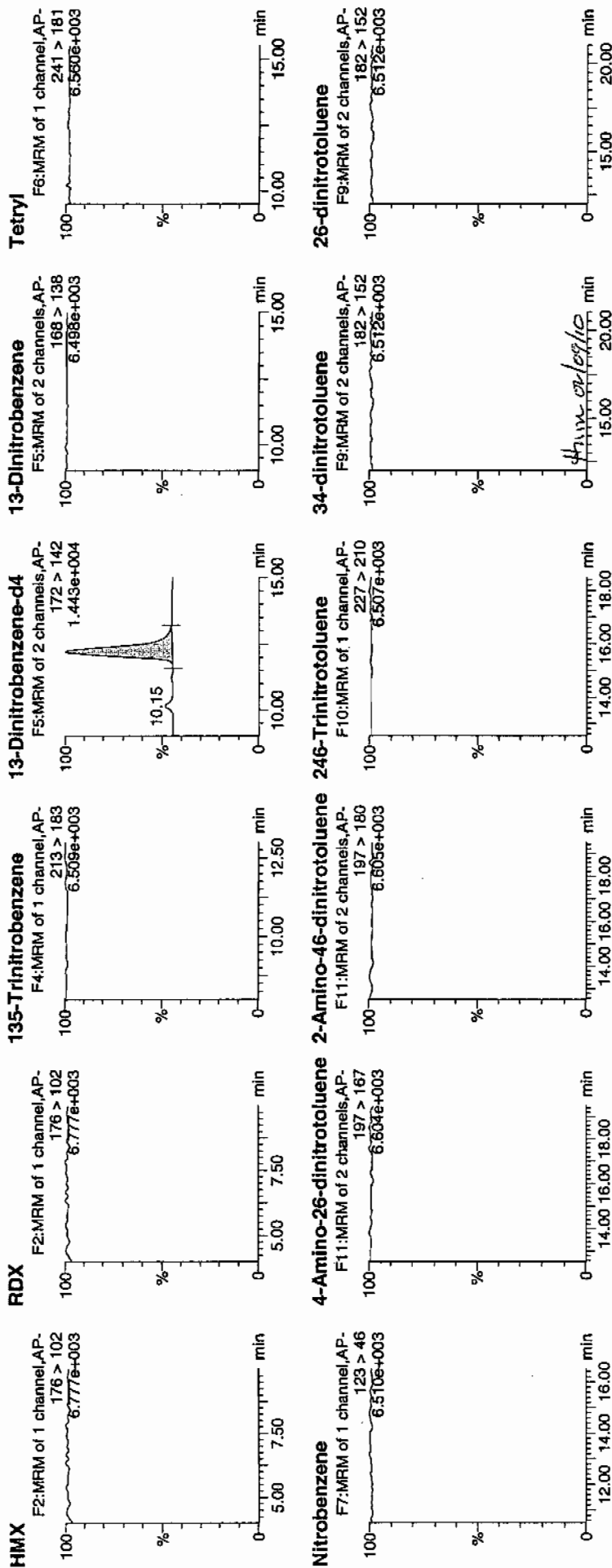
Date: 08-Feb-2010

Time: 19:39:33

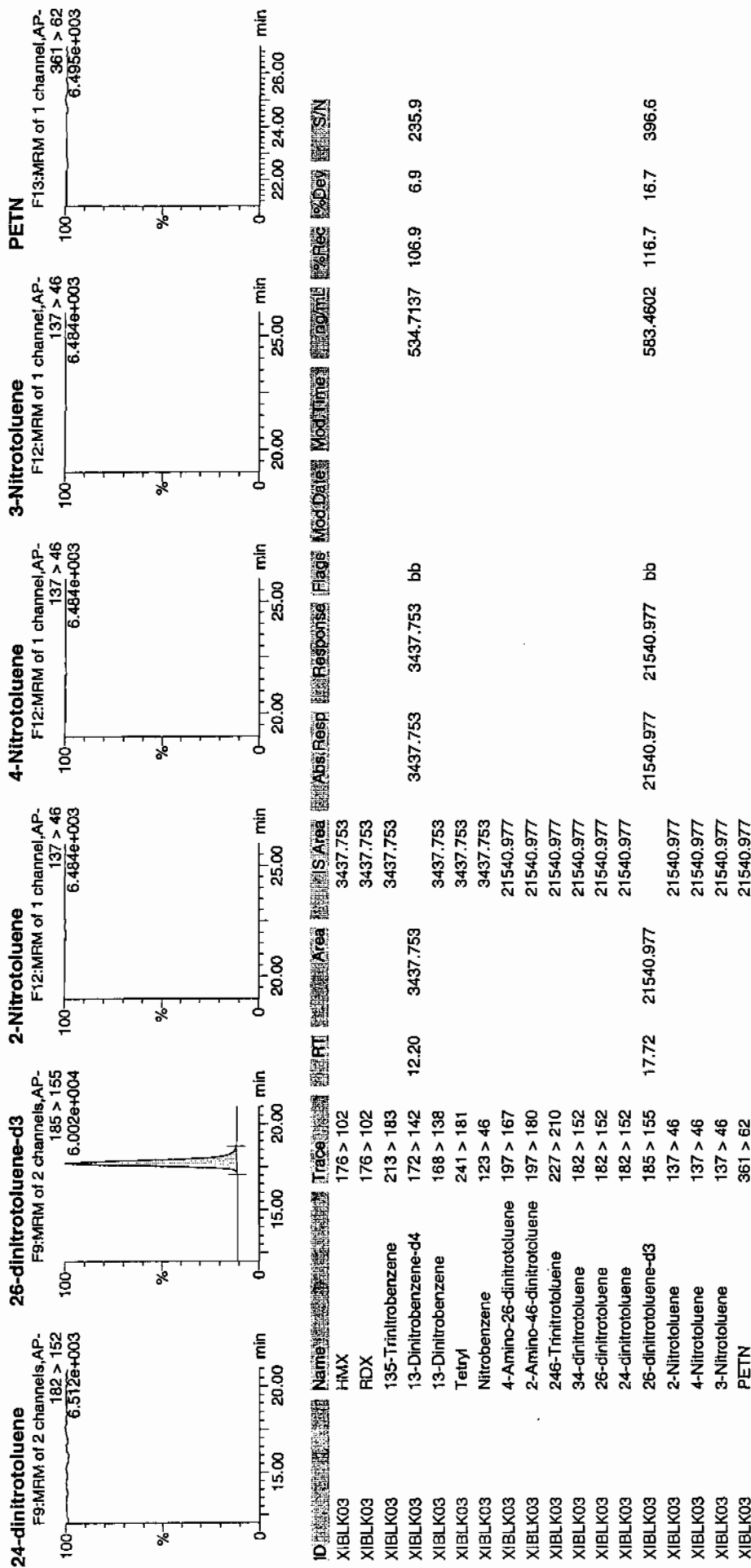
ID: XIBLK03

Vial: 1:1,A

10/10



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 09-FEB-10 02:02

GEL Data File: EXP0208024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	594.411
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	592.137
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208024a

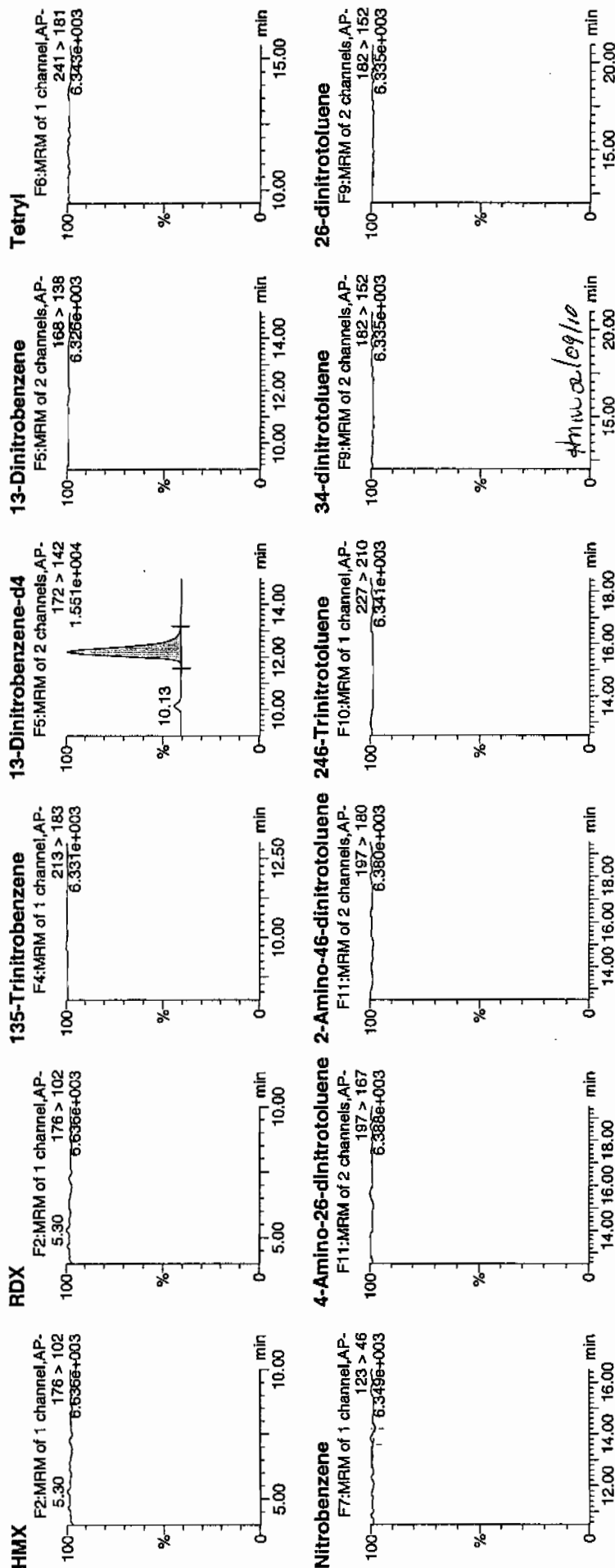
Date: 09-Feb-2010

Time: 02:02:53

ID: XIBLK04

Vial: 1:1,A

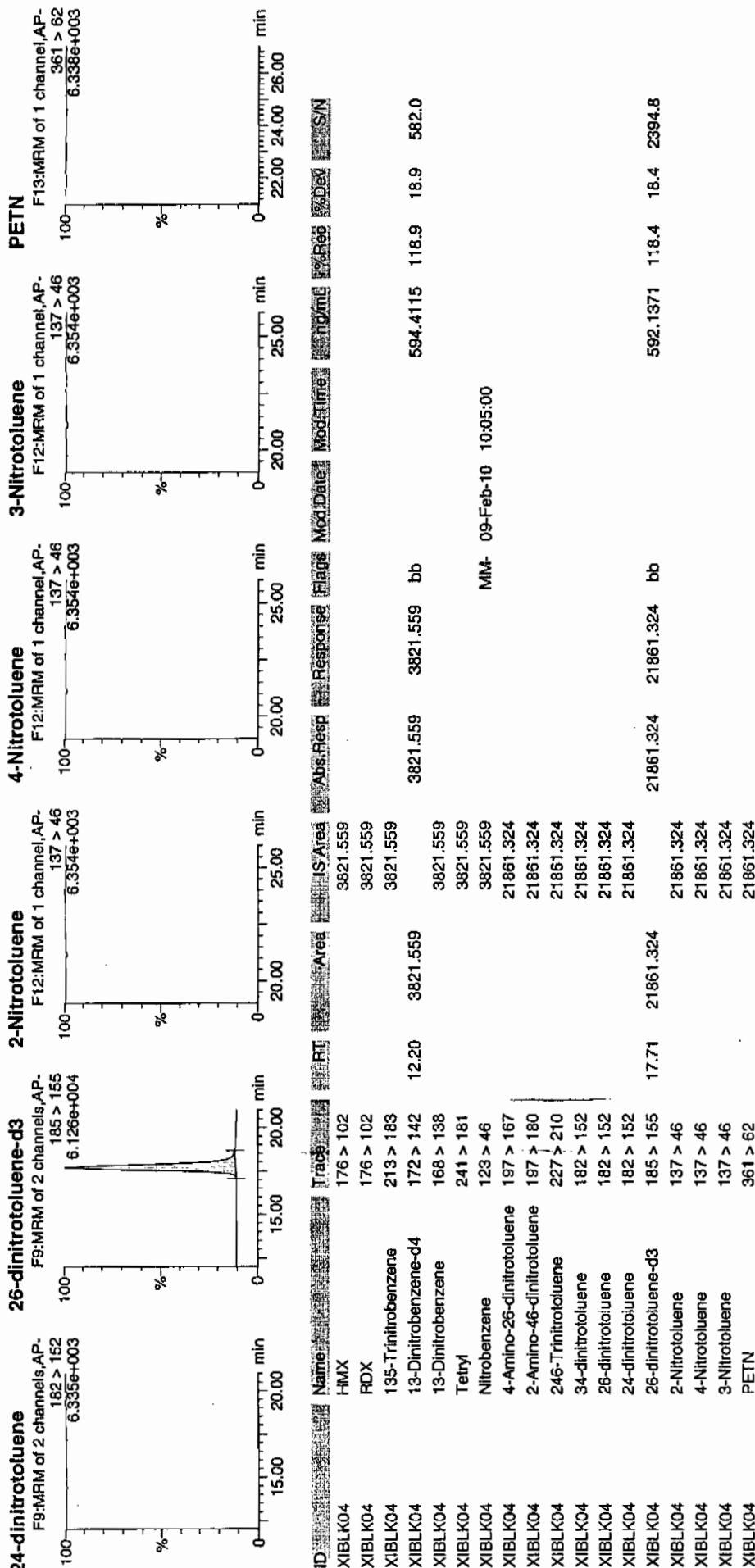
1.27  
2.19/1.00





Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

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4A  
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 09-FEB-10 08:26

GEL Data File: EXP0208037a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	568.449
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	592.976
2,4,6-Trinitrotoluene	0	0

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP\PRO\data\EXP0208037a

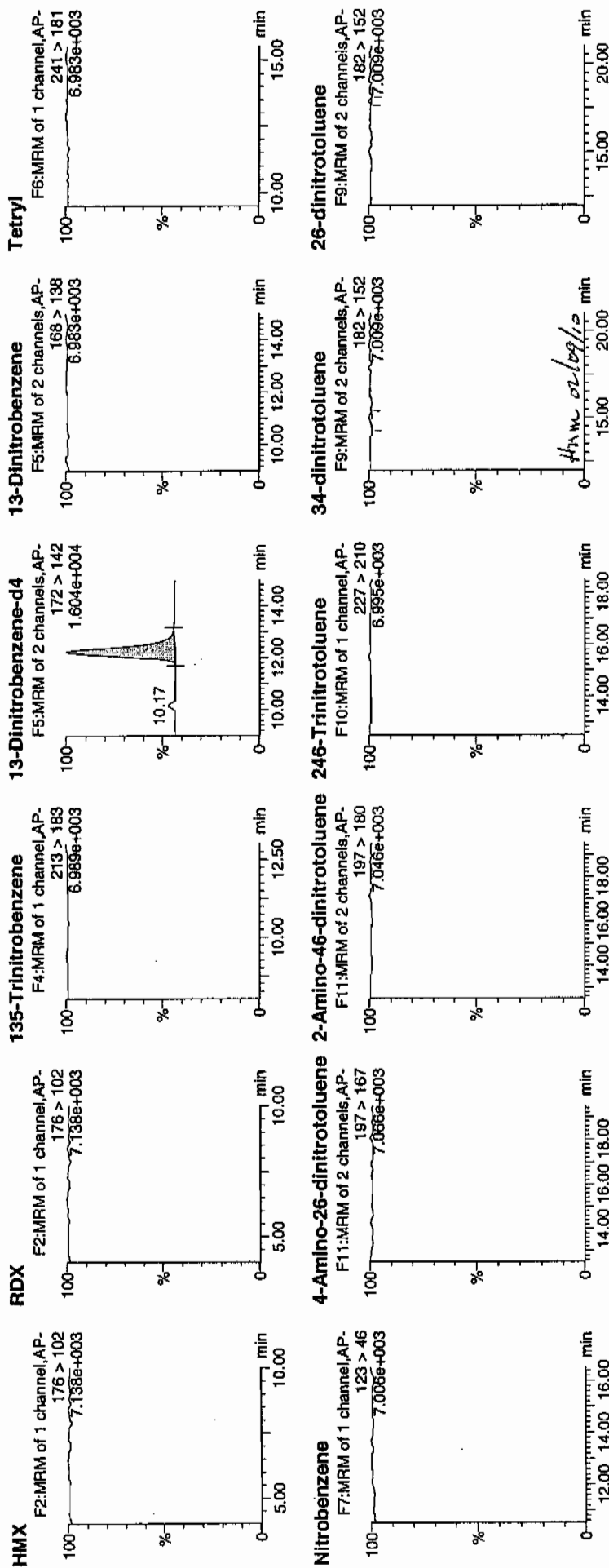
Date: 09-Feb-2010

Time: 08:26:48

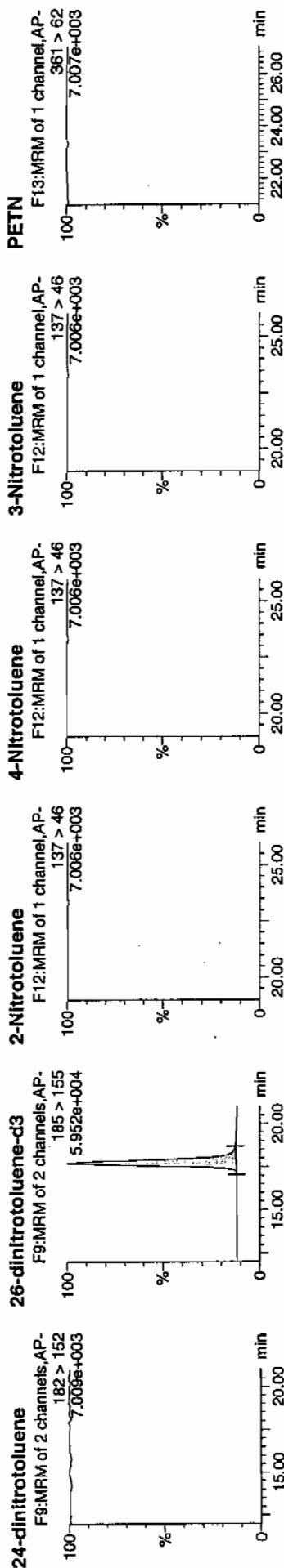
ID: XIBLK05

Vial: 1:1,A

10/10  
10/10



Dataset: C:\MASSL\YNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010



ID	Name	Trace	RT	Area	S:Area	Abs:Resp	Response	Flags	Mod:Time	Mod:Date	%Rec	%Dev	SN
XIBLK05	HMX	176 > 102		3812.331									
XIBLK05	RDX	176 > 102		3812.331									
XIBLK05	135-Trinitrobenzene	213 > 183		3812.331									
XIBLK05	13-Dinitrobenzene-d4	172 > 142	12.20	3812.331									
XIBLK05	13-Dinitrobenzene	168 > 138		3812.331									
XIBLK05	Tetryl	241 > 181		3812.331									
XIBLK05	Nitrobenzene	123 > 46		3812.331									
XIBLK05	4-Amino-26-dinitrotoluene	197 > 167		20986.781									
XIBLK05	2-Amino-46-dinitrotoluene	197 > 180		20986.781									
XIBLK05	246-Trinitrotoluene	227 > 210		20986.781									
XIBLK05	34-dinitrotoluene	182 > 152		20986.781									
XIBLK05	26-dinitrotoluene	182 > 152		20986.781									
XIBLK05	24-dinitrotoluene	182 > 152		20986.781									
XIBLK05	26-dinitrotoluene-d3	185 > 155	17.71	20986.781									
XIBLK05	2-Nitrotoluene	137 > 46		20986.781									
XIBLK05	4-Nitrotoluene	137 > 46		20986.781									
XIBLK05	3-Nitrotoluene	137 > 46		20986.781									
XIBLK05	PETN	361 > 62		20986.781									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 09-FEB-10 14:50

GEL Data File: EXP0208050a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	619.031
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	615.609
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYN\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYN\NEW\_EXP.PRO\Data\EXP0208050a

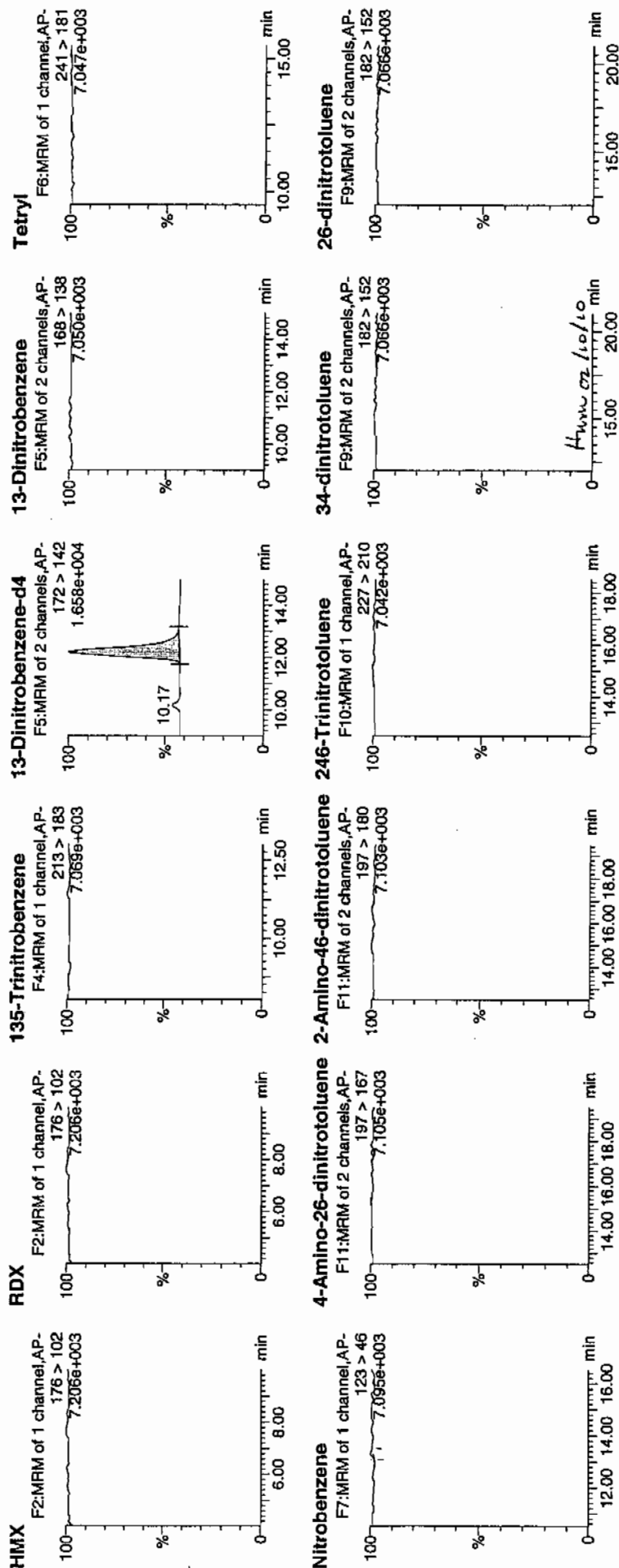
Date: 09-Feb-2010

Time: 14:50:17

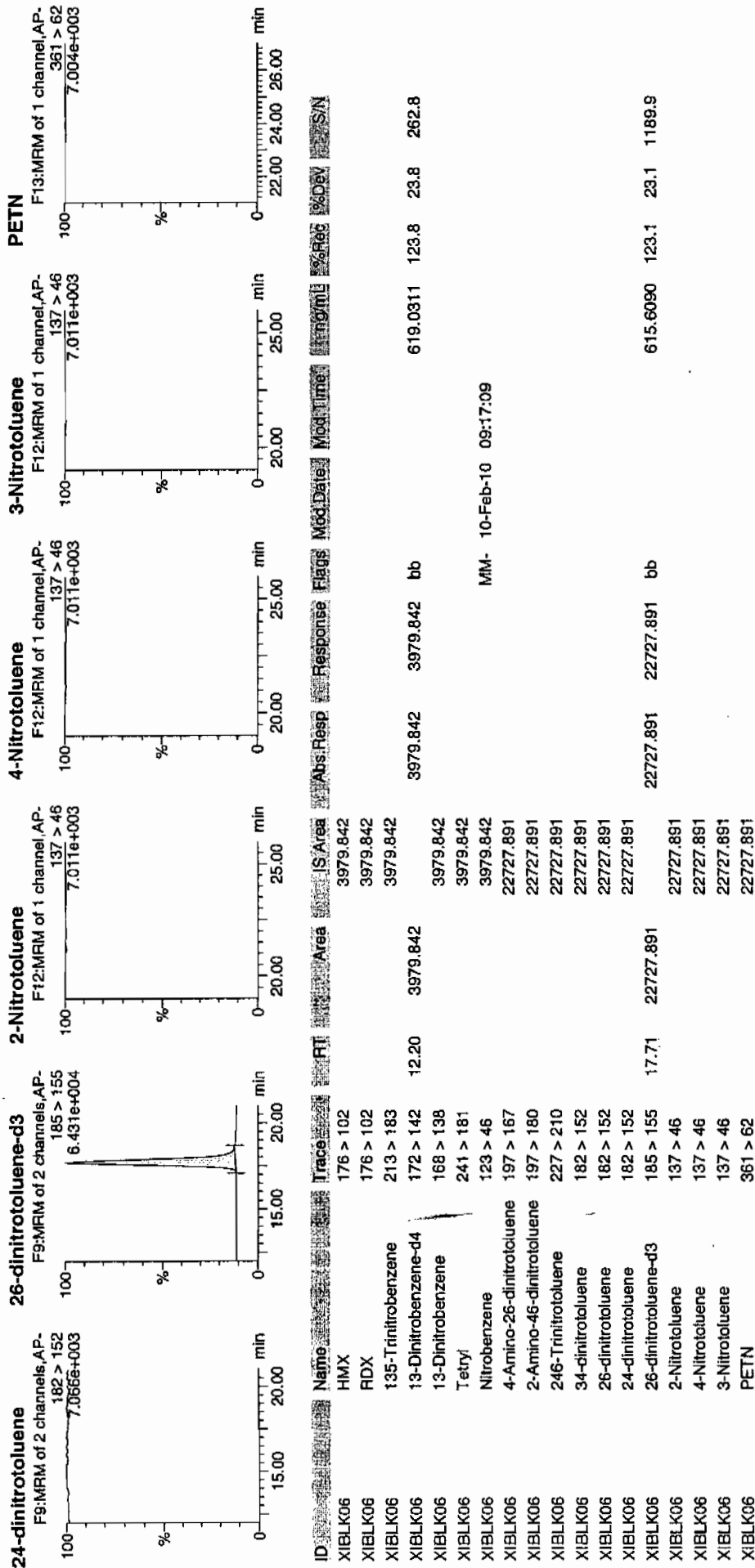
ID: XIBLK06

Vial: 1:1,A

2/10/10



Dataset: C:\MASSLYNX\New\_Exp\PRO1020810expA1.qld, Time: Wed Feb 10 09:19:53 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 09-FEB-10 21:13

GEL Data File: EXP0208063a

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
2,6-Dinitrotoluene--d3	500	577.242
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	602.957



Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208063a

Date: 09-Feb-2010

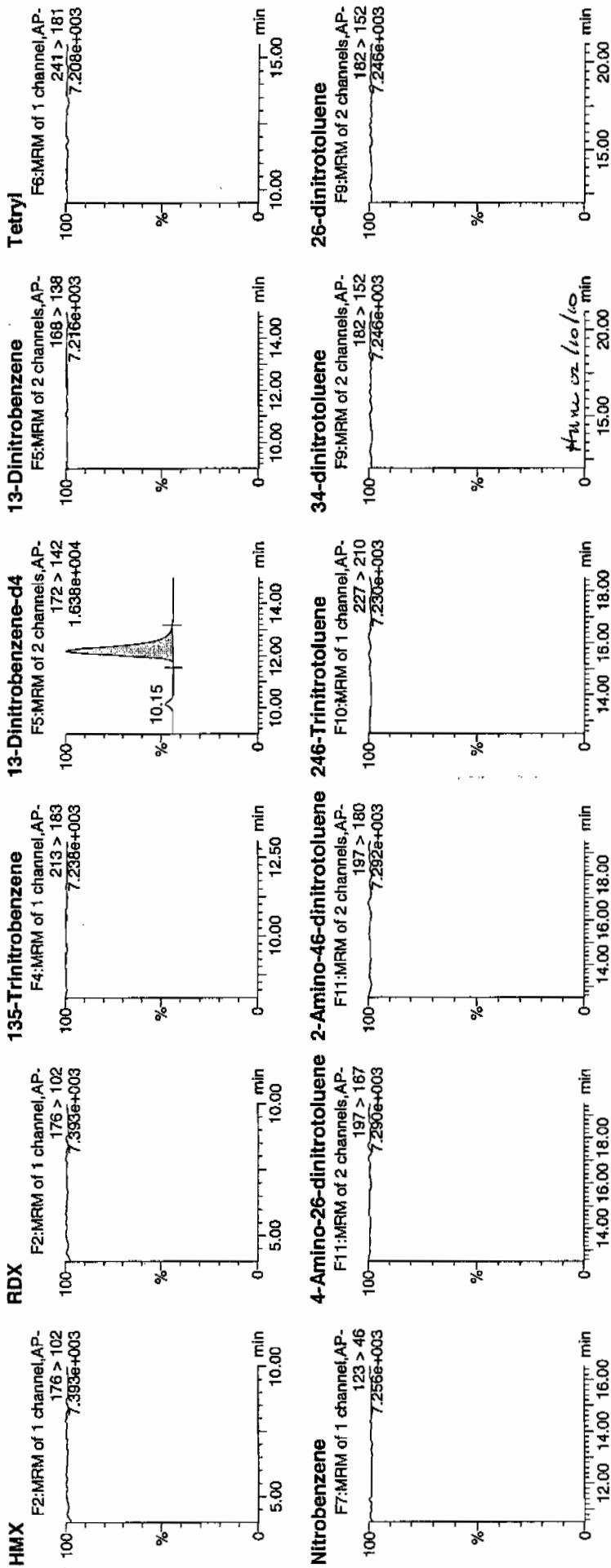
Time: 21:13:58

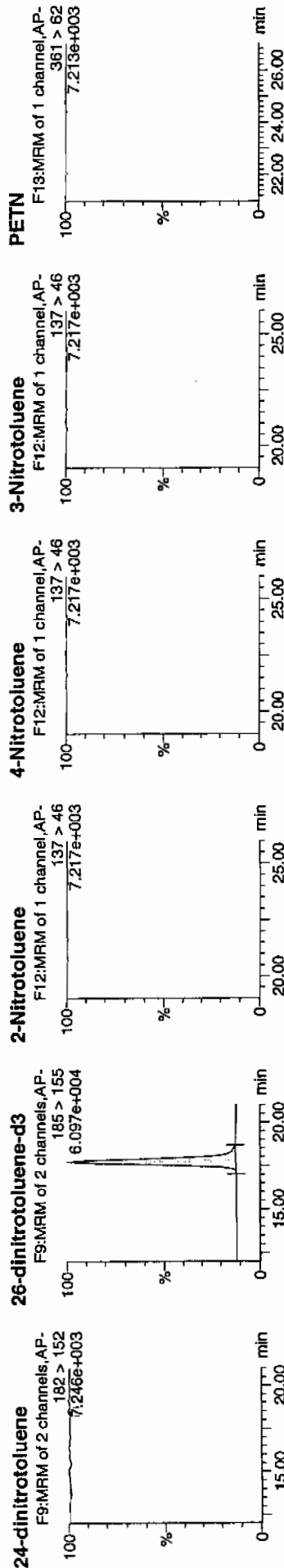
ID: XIBLK07

Vial: 1:1,A

WAT  
2/10/10

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ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK07	HMX	176 > 102			3876.500									
XIBLK07	RDX	176 > 102			3876.500									
XIBLK07	135-Trinitrobenzene	213 > 183			3876.500									
XIBLK07	13-Dinitrobenzene-d4	172 > 142	12.20	3876.500		3876.500	3876.500	bb			602.9571	120.6	20.6	383.4
XIBLK07	13-Dinitrobenzene	168 > 138			3876.500									
XIBLK07	Tetryl	241 > 181			3876.500									
XIBLK07	Nitrobenzene	123 > 46			3876.500									
XIBLK07	4-Amino-26-dinitrotoluene	197 > 167			21311.416									
XIBLK07	2-Amino-46-dinitrotoluene	197 > 180			21311.416									
XIBLK07	246-Trinitrotoluene	227 > 210			21311.416									
XIBLK07	34-dinitrotoluene	182 > 152			21311.416									
XIBLK07	26-dinitrotoluene	182 > 152			21311.416									
XIBLK07	24-dinitrotoluene	182 > 152			21311.416									
XIBLK07	26-dinitrotoluene-d3	185 > 155	17.71	21311.416		21311.416	21311.416	MM-	10-Feb-10	09:08:37	577.2423	115.4	15.4	1930.8
XIBLK07	2-Nitrotoluene	137 > 46			21311.416									
XIBLK07	4-Nitrotoluene	137 > 46			21311.416									
XIBLK07	3-Nitrotoluene	137 > 46			21311.416									
XIBLK07	PETN	361 > 62			21311.416									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 10-FEB-10 03:37

GEL Data File: EXP0208076a

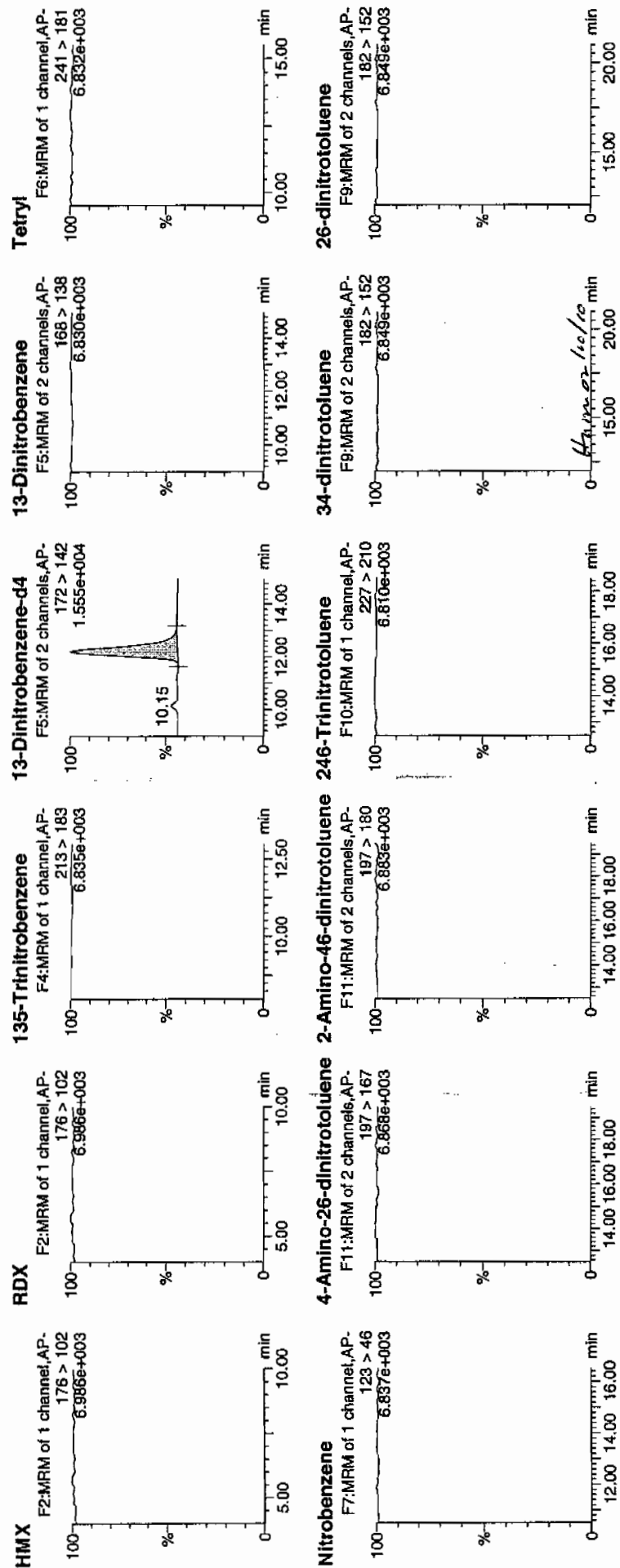
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

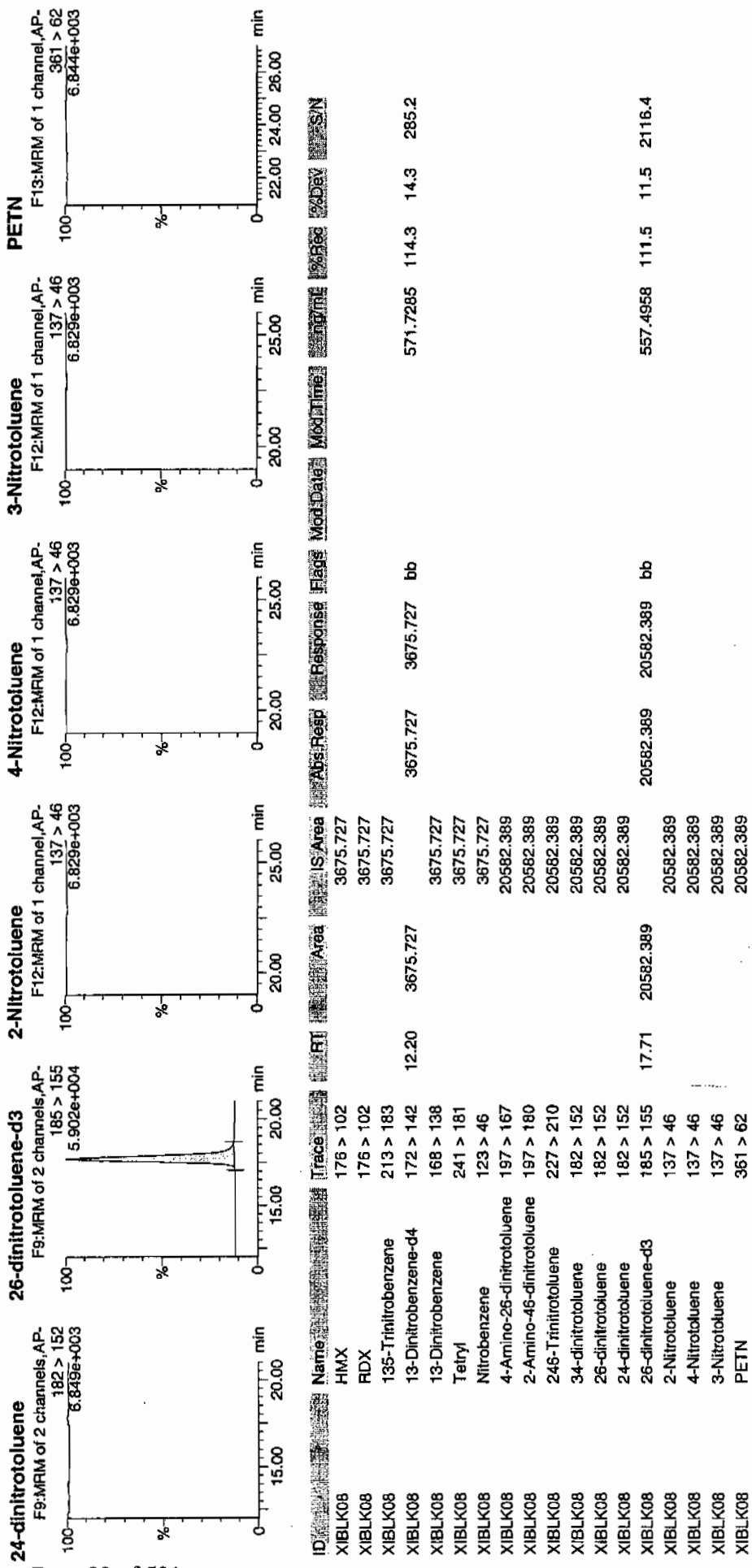
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	571.729
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	557.496
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 10-FEB-10 10:01

GEL Data File: EXP0208089a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	589.535
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	534.323
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208089a

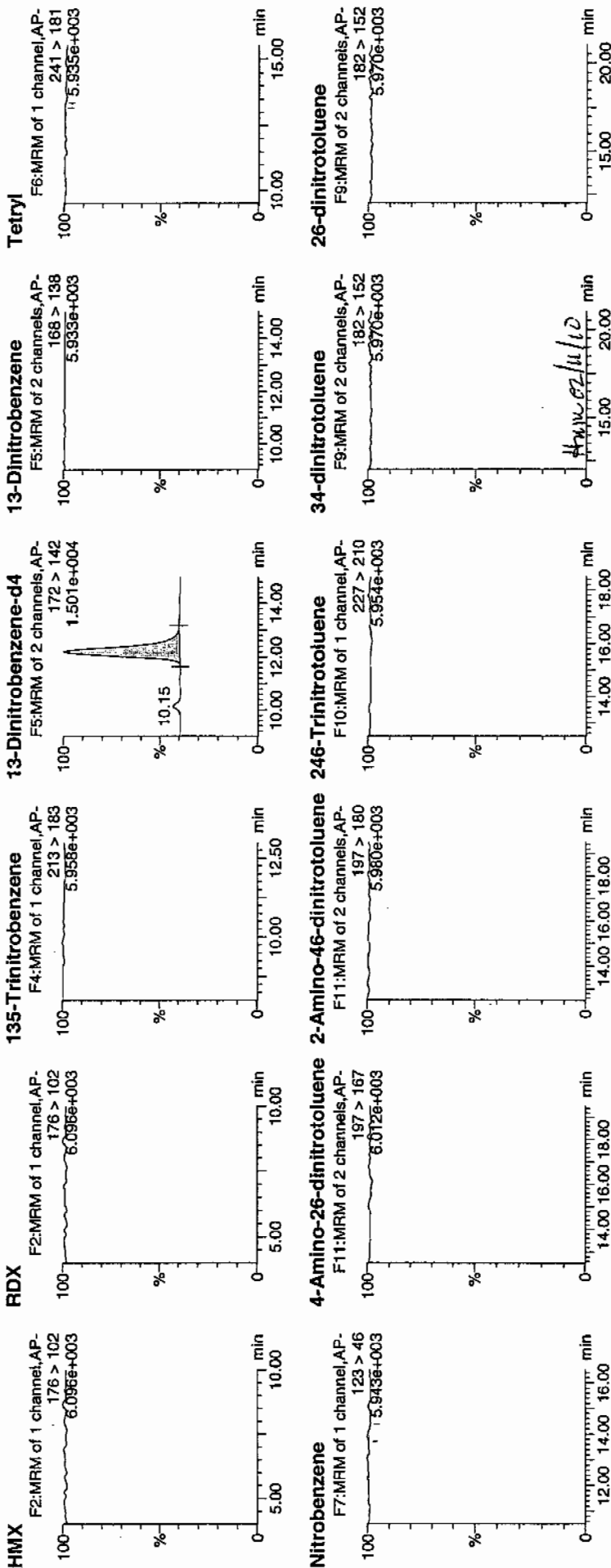
Date: 10-Feb-2010

Time: 10:01:12

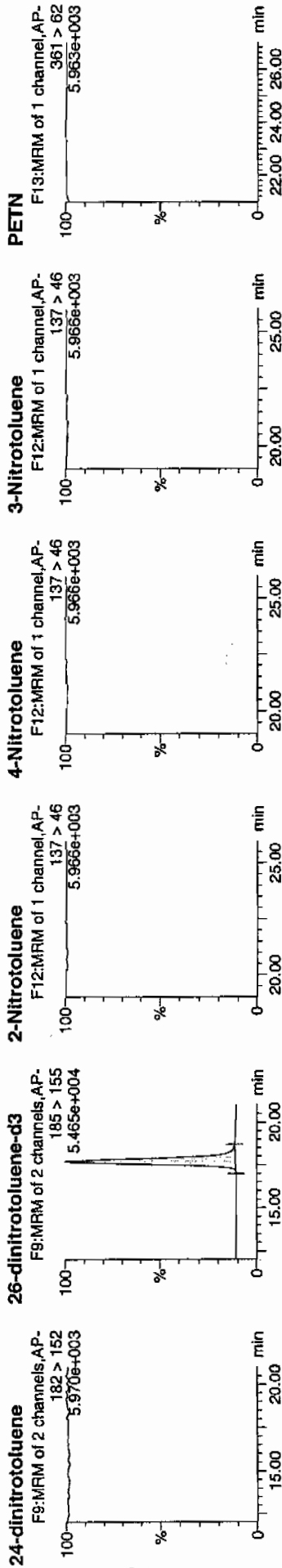
ID: XIBLK09

Vial: 1:1,A

2/11/10



Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
XIBLK09	HMX	176 > 102		3790.207									
XIBLK09	RDX	176 > 102		3790.207									
XIBLK09	135-Trinitrobenzene	213 > 183		3790.207									
XIBLK09	13-Dinitrobenzene-d4	172 > 142	12.21	3790.207									
XIBLK09	13-Dinitrobenzene	168 > 138		3790.207									
XIBLK09	Tetryl	241 > 181		3790.207									
XIBLK09	Nitrobenzene	123 > 46		3790.207									
XIBLK09	4-Amino-26-dinitrotoluene	197 > 167		3790.207									
XIBLK09	2-Amino-46-dinitrotoluene	197 > 180		19726.857									
XIBLK09	246-Trinitrotoluene	227 > 210		19726.857									
XIBLK09	34-dinitrotoluene	182 > 152		19726.857									
XIBLK09	26-dinitrotoluene	182 > 152		19726.857									
XIBLK09	24-dinitrotoluene	182 > 152		19726.857									
XIBLK09	26-dinitrotoluene-d3	185 > 155	17.68	19726.857									
XIBLK09	2-Nitrotoluene	137 > 46		19726.857									
XIBLK09	4-Nitrotoluene	137 > 46		19726.857									
XIBLK09	3-Nitrotoluene	137 > 46		19726.857									
XIBLK09	PETN	361 > 62		19726.857									
						3790.207	3790.207	bb					
						3790.207	3790.207	bb					
						19726.857	19726.857	bb					
						589.5349	589.5349		11-Feb-10	09:25:42			
						589.5349	589.5349		11-Feb-10	09:25:57			
						534.3228	534.3228				106.9	6.9	2274.9



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 10-FEB-10 11:59

GEL Data File: EXP0208093a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	518.982
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	590.034
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Thu Feb 11 10:09:12 2010, Page 31 of 117

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208093a

Date: 10-Feb-2010

Time: 11:59:19

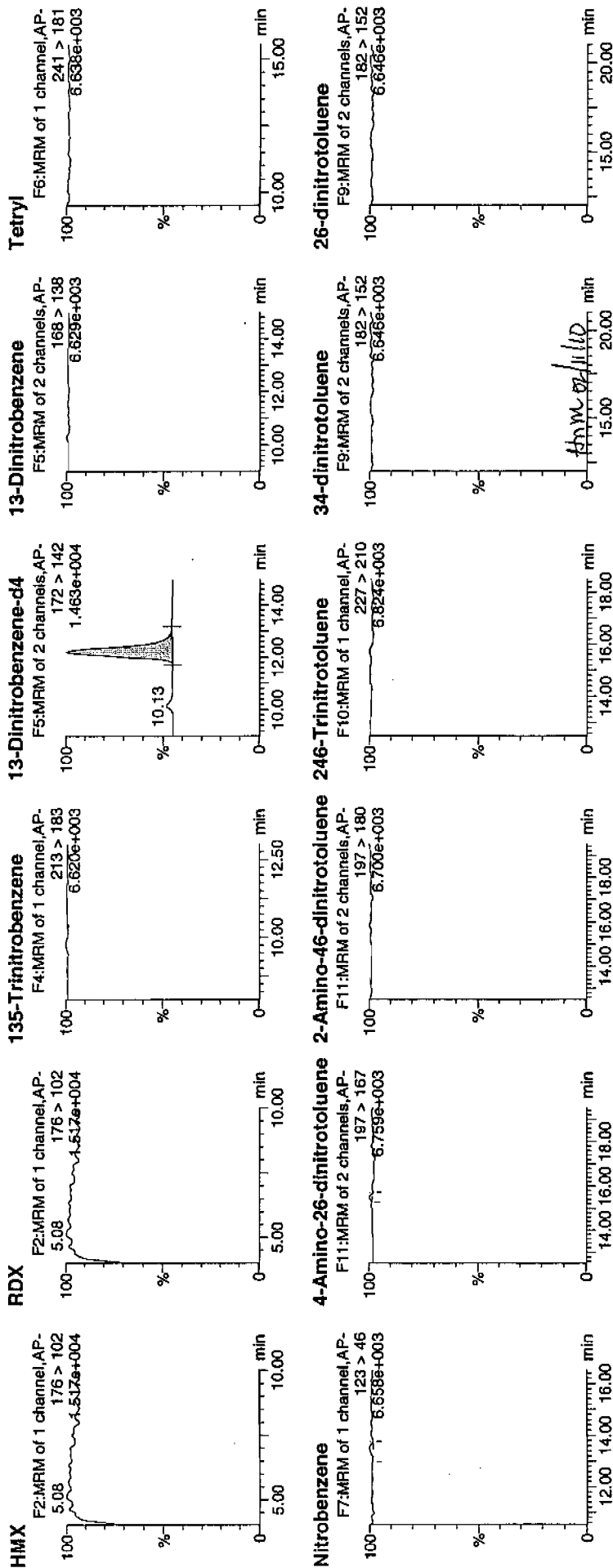
ID: XIBLK10

Vial: 1:1,F

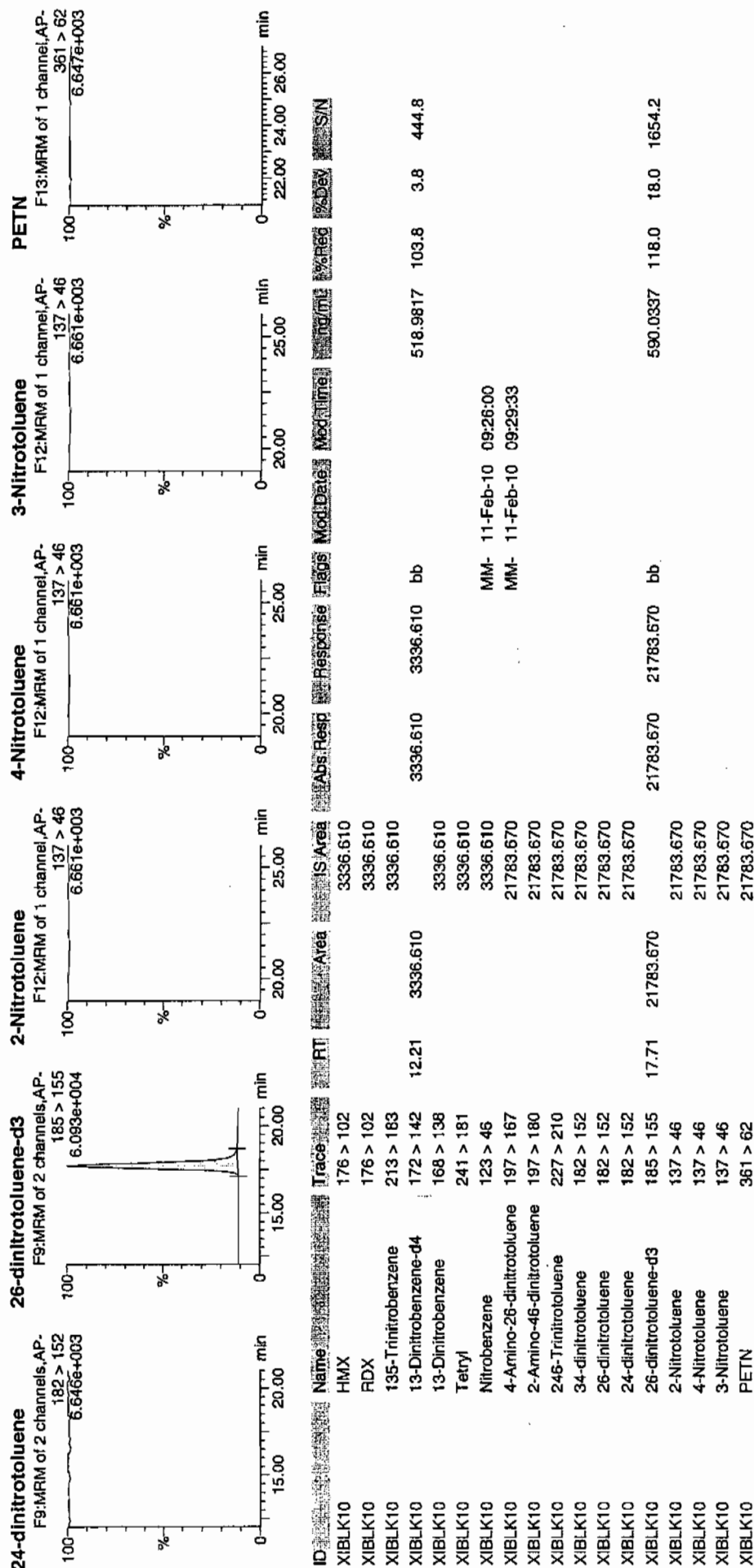
Handwritten: 2/11/10

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Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA2.qtd, Time: Thu Feb 11 10:06:10 2010



4A  
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 10-FEB-10 13:28

GEL Data File: EXP0208096a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	515.625
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	487.539
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208096a

Date: 10-Feb-2010

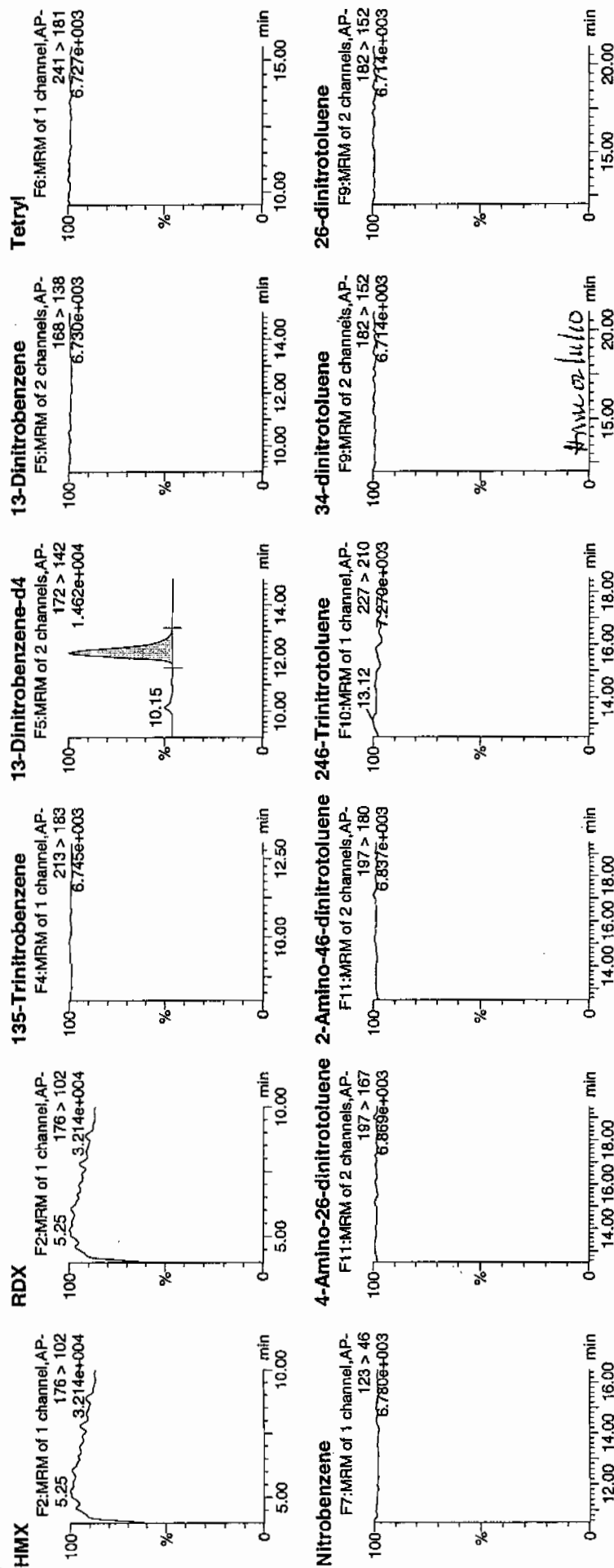
Time: 13:28:03

ID: XIBLK11

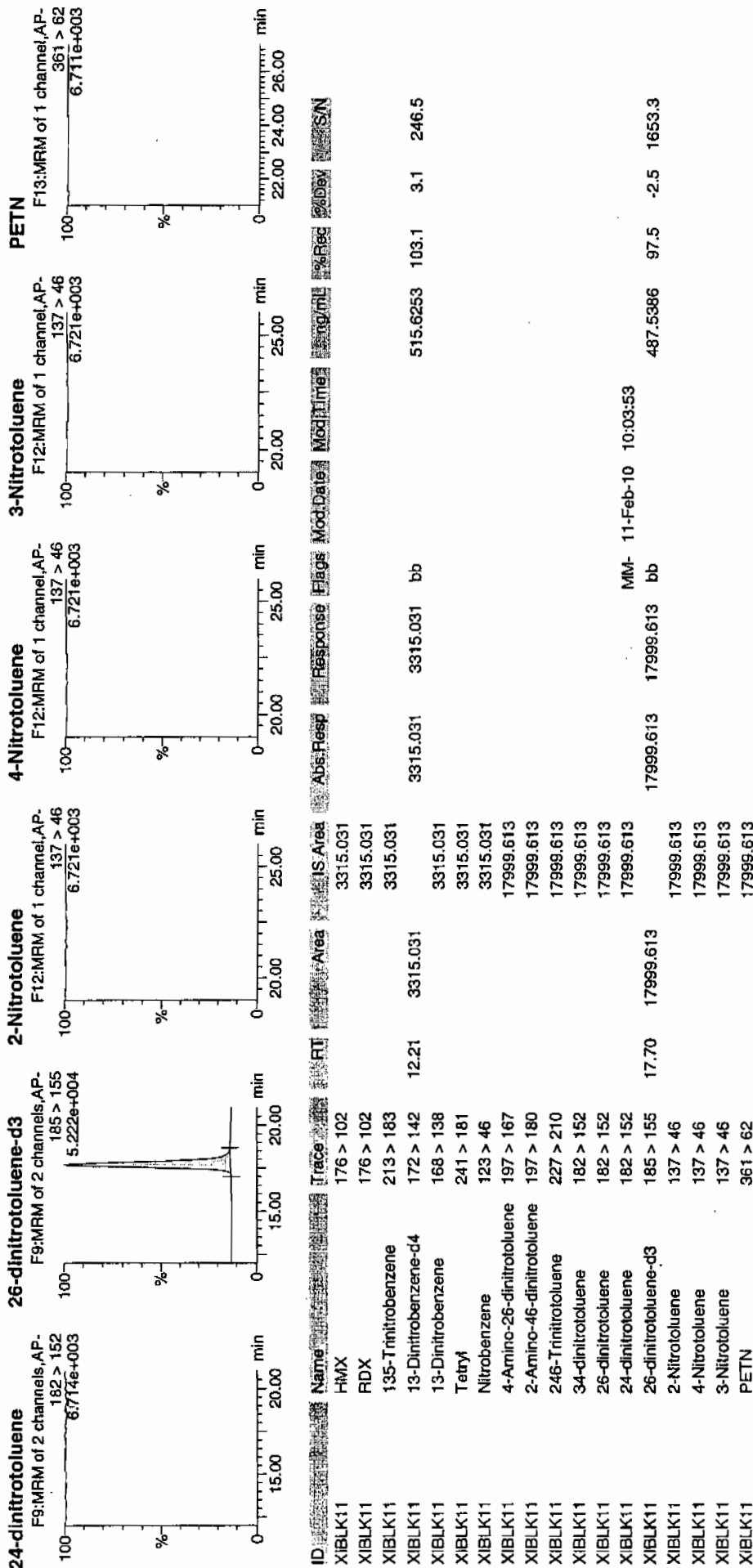
Vial: 1:1,F

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Page 591



Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 10-FEB-10 15:55

GEL Data File: EXP0208101a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	444.368
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	493.427
2,4,6-Trinitrotoluene	0	0

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208101a

Date: 10-Feb-2010

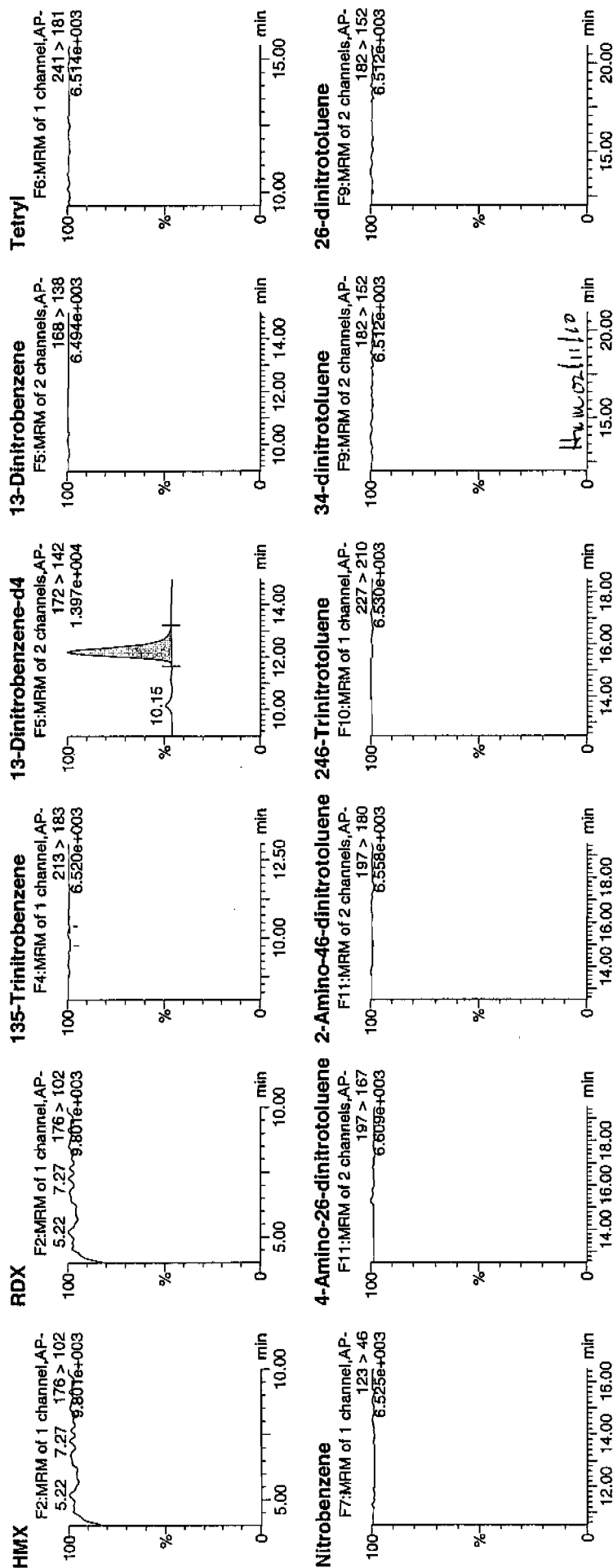
Time: 15:55:49

ID: XIBLK12

Vial: 1:1,A

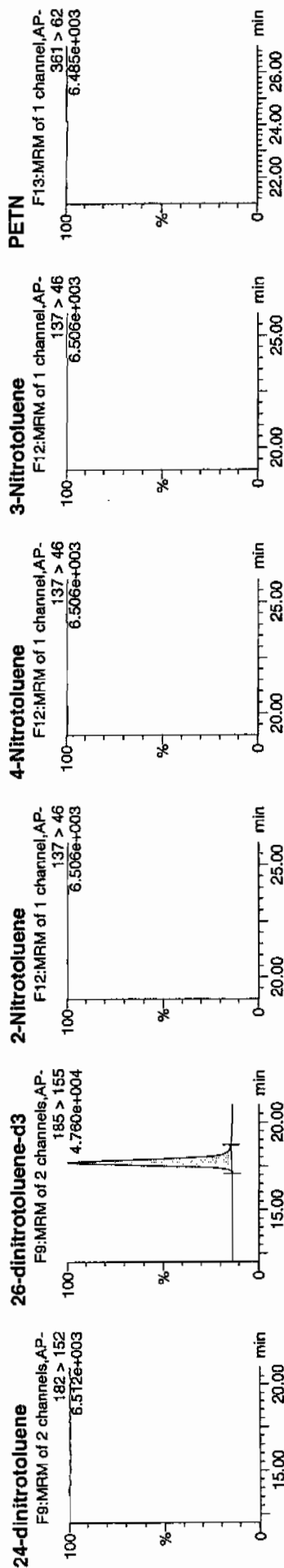
*WV*  
*WV*

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Dataset: C:\MASSLYNX\New\_Exp\PROV020810expA2.qtd, Time: Thu Feb 11 10:06:10 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
XIBLK12	HMX	176 > 102			3172.314								
XIBLK12	RDX	176 > 102			3172.314								
XIBLK12	135-Trinitrobenzene	213 > 183			3172.314								
XIBLK12	13-Dinitrobenzene-d4	172 > 142	12.21	3172.314		3172.314	3172.314	bb	MM- 11-Feb-10	09:24:25	493.4269	98.7	-1.3
XIBLK12	13-Dinitrobenzene	168 > 138			3172.314								
XIBLK12	Tetryl	241 > 181			3172.314								
XIBLK12	Nitrobenzene	123 > 46			3172.314								
XIBLK12	4-Amino-26-dinitrotoluene	197 > 167			16405.785								
XIBLK12	2-Amino-46-dinitrotoluene	197 > 180			16405.785								
XIBLK12	246-Trinitrotoluene	227 > 210			16405.785								
XIBLK12	34-dinitrotoluene	182 > 152			16405.785								
XIBLK12	26-dinitrotoluene	182 > 152			16405.785								
XIBLK12	24-dinitrotoluene	182 > 152			16405.785								
XIBLK12	26-dinitrotoluene-d3	185 > 155	17.70	16405.785		16405.785	16405.785	bb			444.3680	88.9	-11.1
XIBLK12	2-Nitrotoluene	137 > 46			16405.785								
XIBLK12	4-Nitrotoluene	137 > 46			16405.785								
XIBLK12	3-Nitrotoluene	137 > 46			16405.785								
XIBLK12	PETN	361 > 62			16405.785								

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 10-FEB-10 22:19

GEL Data File: EXP0208114a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	507.231
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	572.472
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208114a

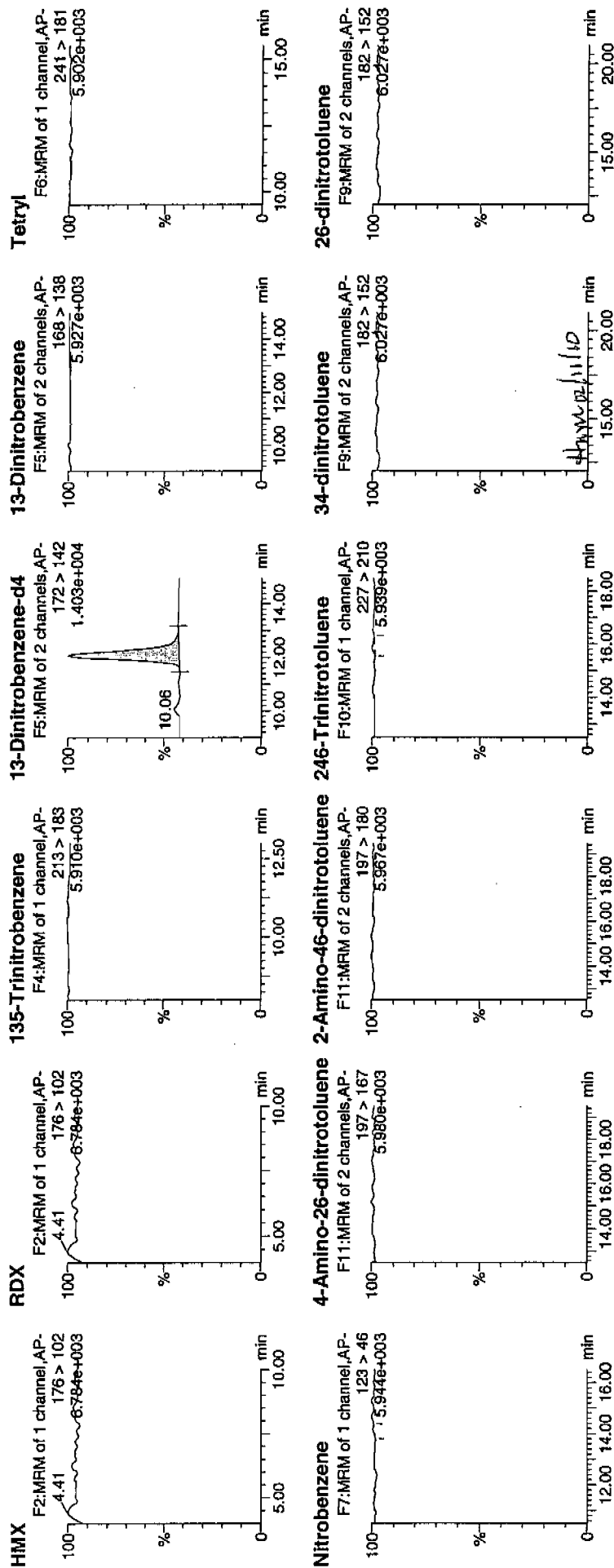
Date: 10-Feb-2010

Time: 22:19:14

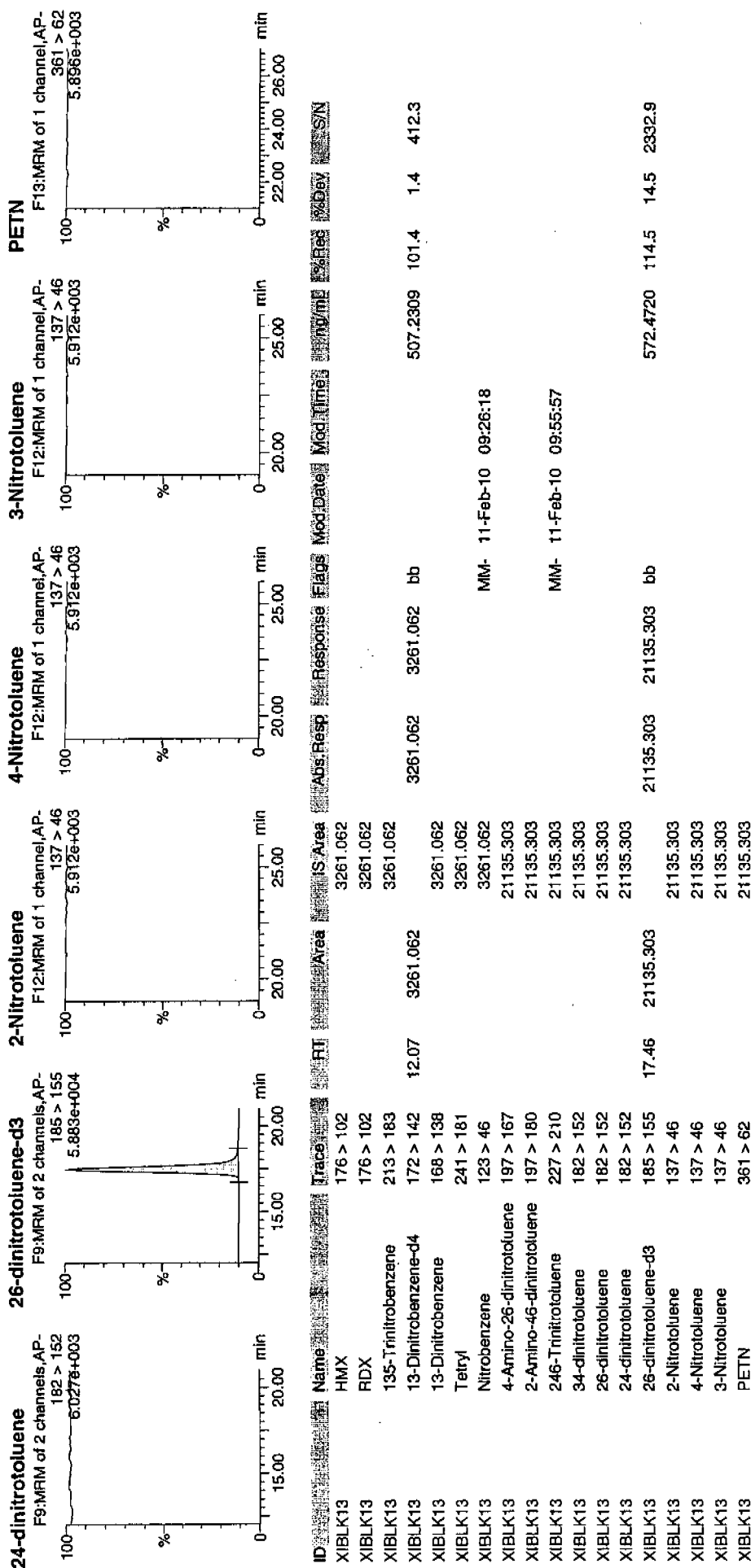
ID: XIBLK13

Vial: 1:1,A

2/11/10



Dataset: C:\MASSL\YNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 11-FEB-10 01:45

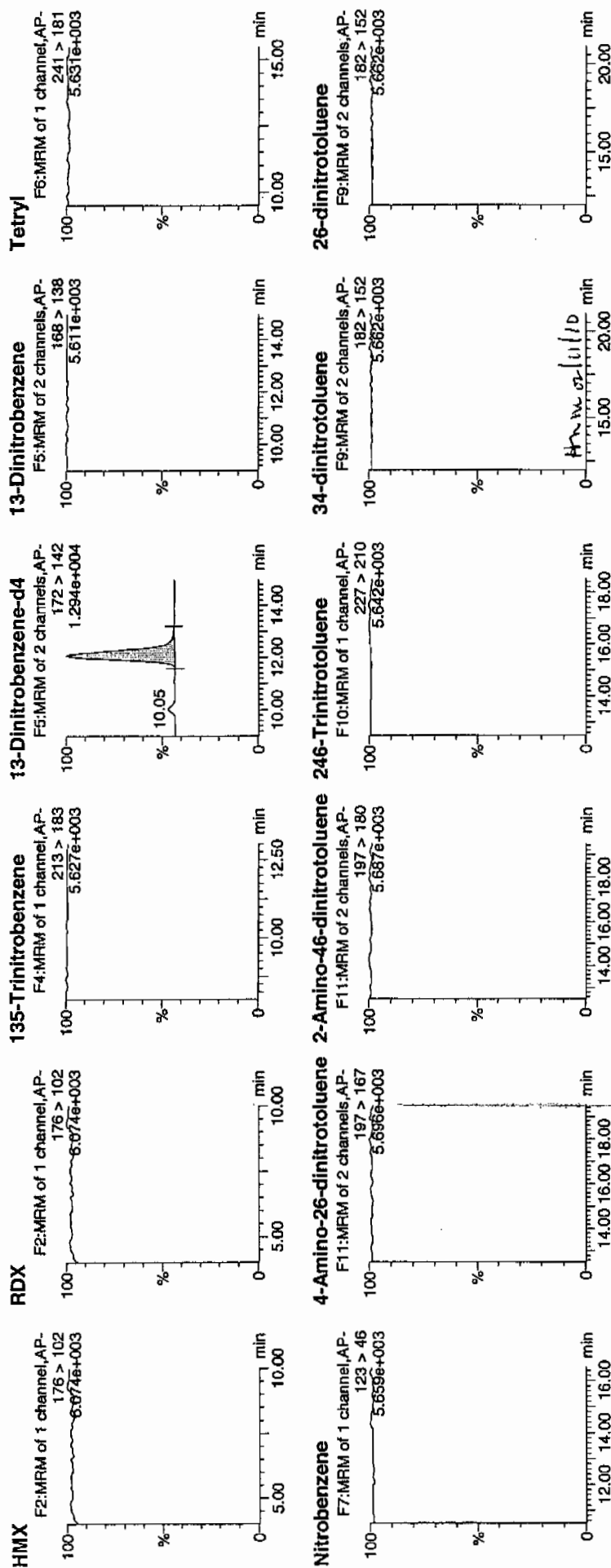
GEL Data File: EXP0208121a

Instrument ID: LCMSMS

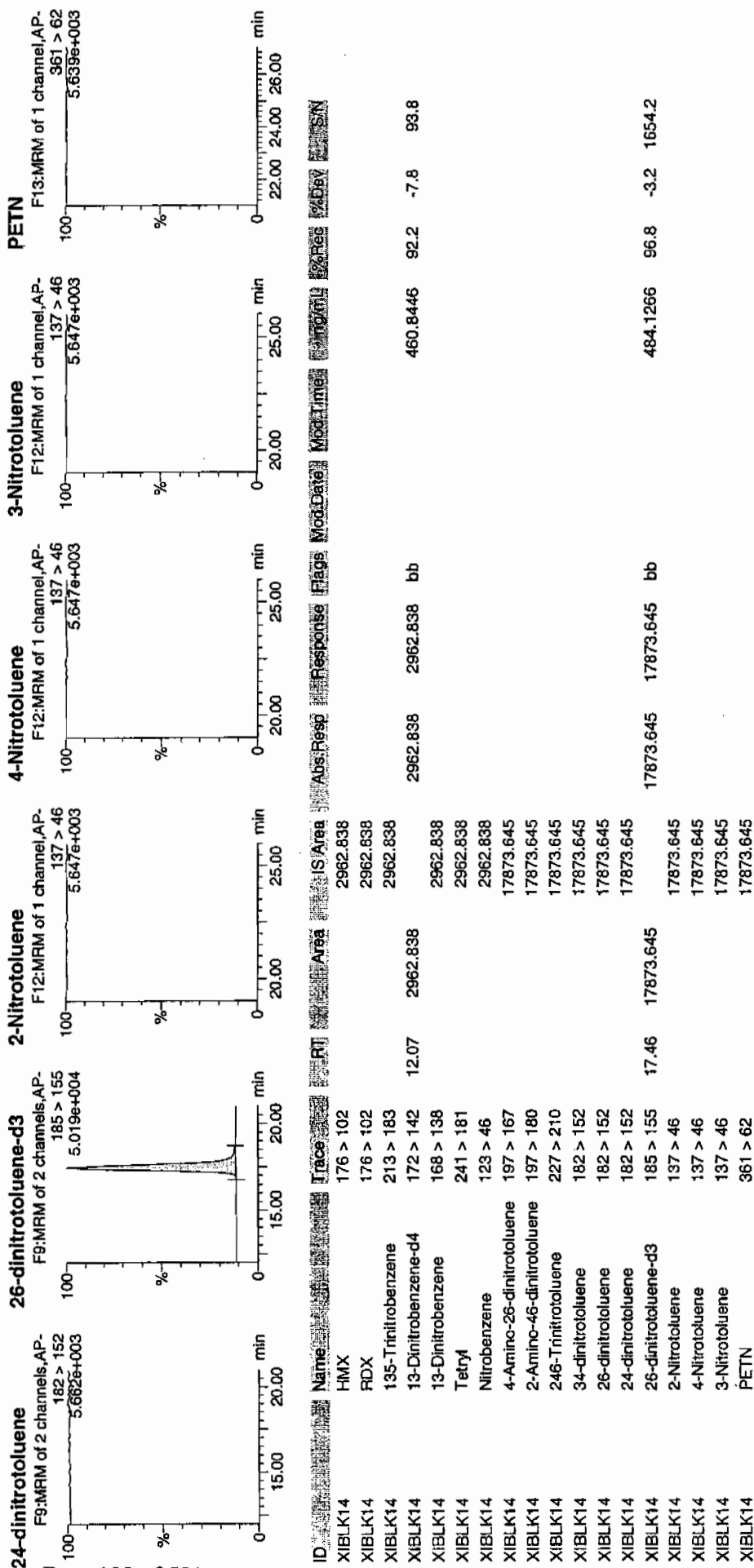
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	460.845
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	484.127
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

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Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 11-FEB-10 08:09

GEL Data File: EXP0208134a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	574.283
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	594.383
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208134a

Date: 11-Feb-2010

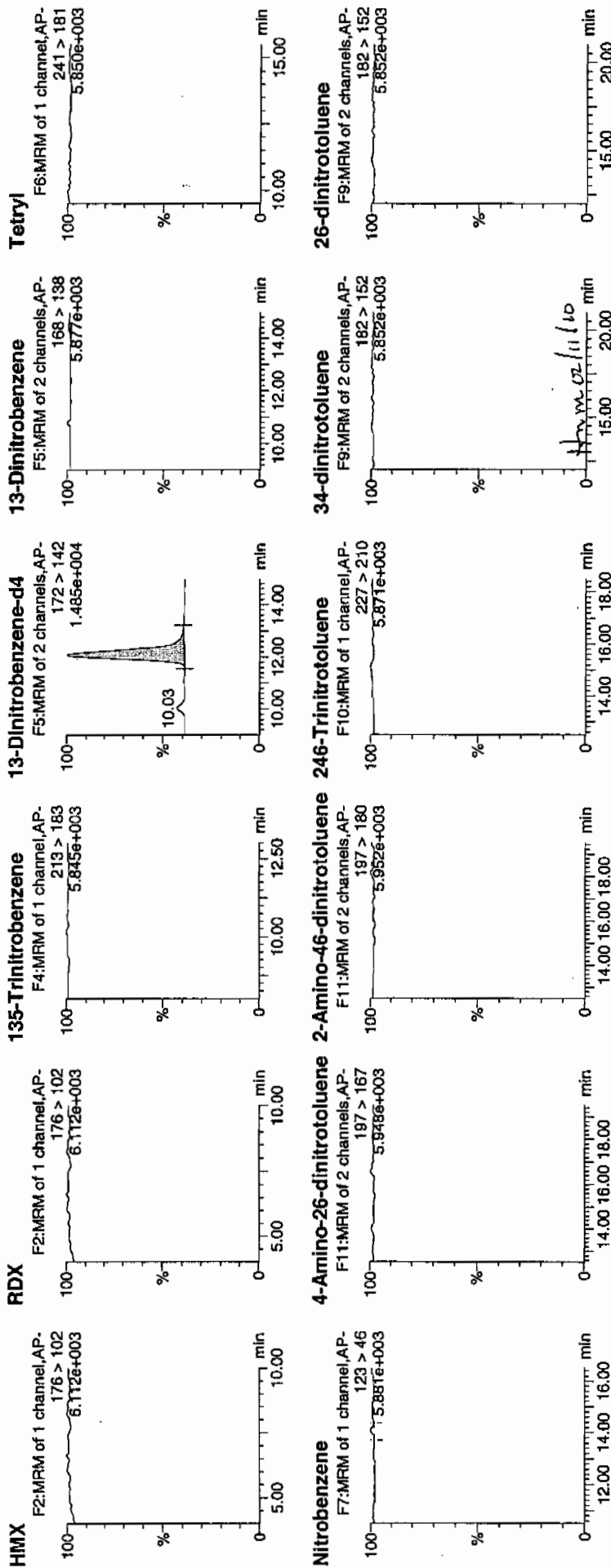
Time: 08:09:15

ID: XIBLK15

Vial: 1:1,A

2/11/10

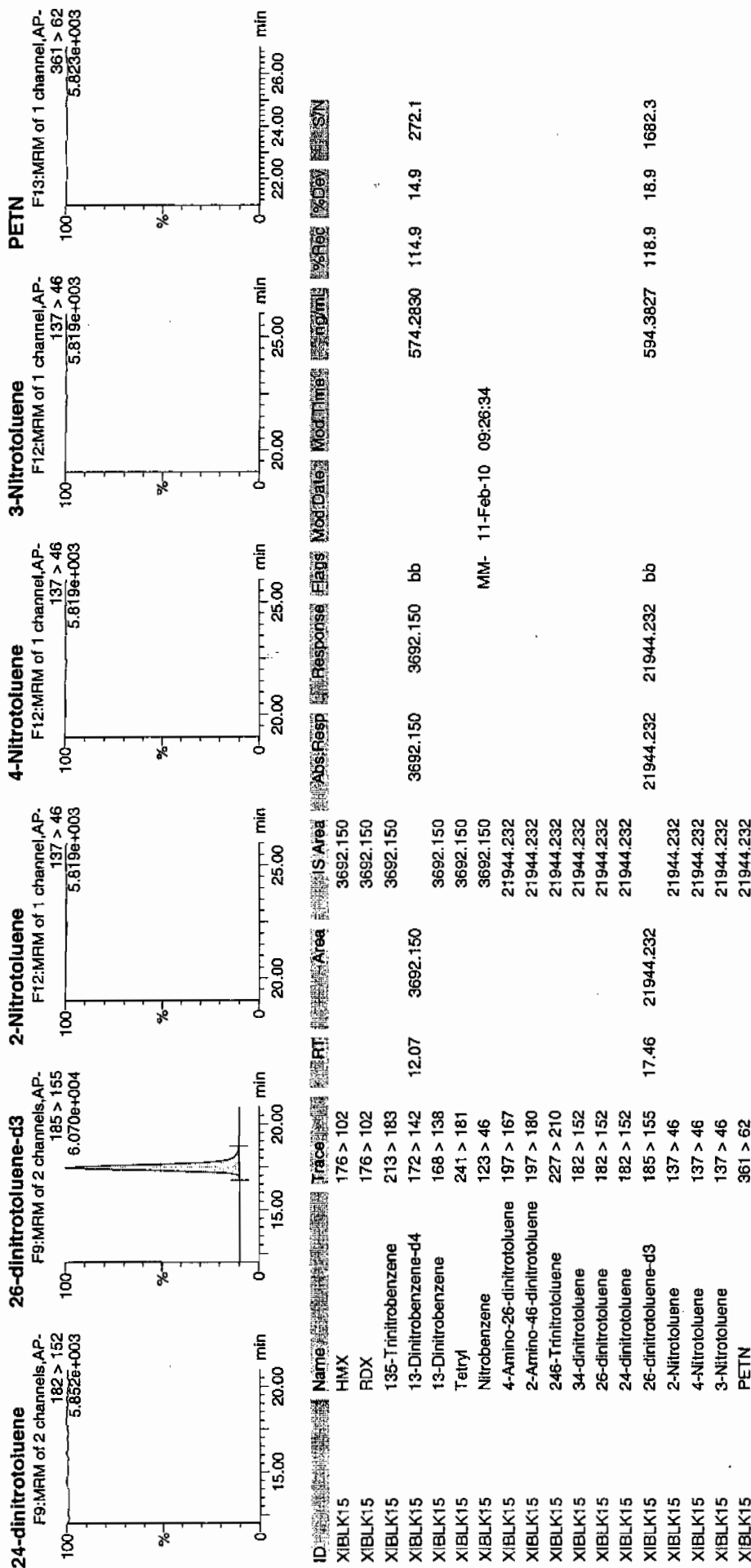
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Quantify Sample Report  
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



4A  
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK16

Analysis Date: 11-FEB-10 14:03

GEL Data File: EXP0208146a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	571.158
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	588.501
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208146a

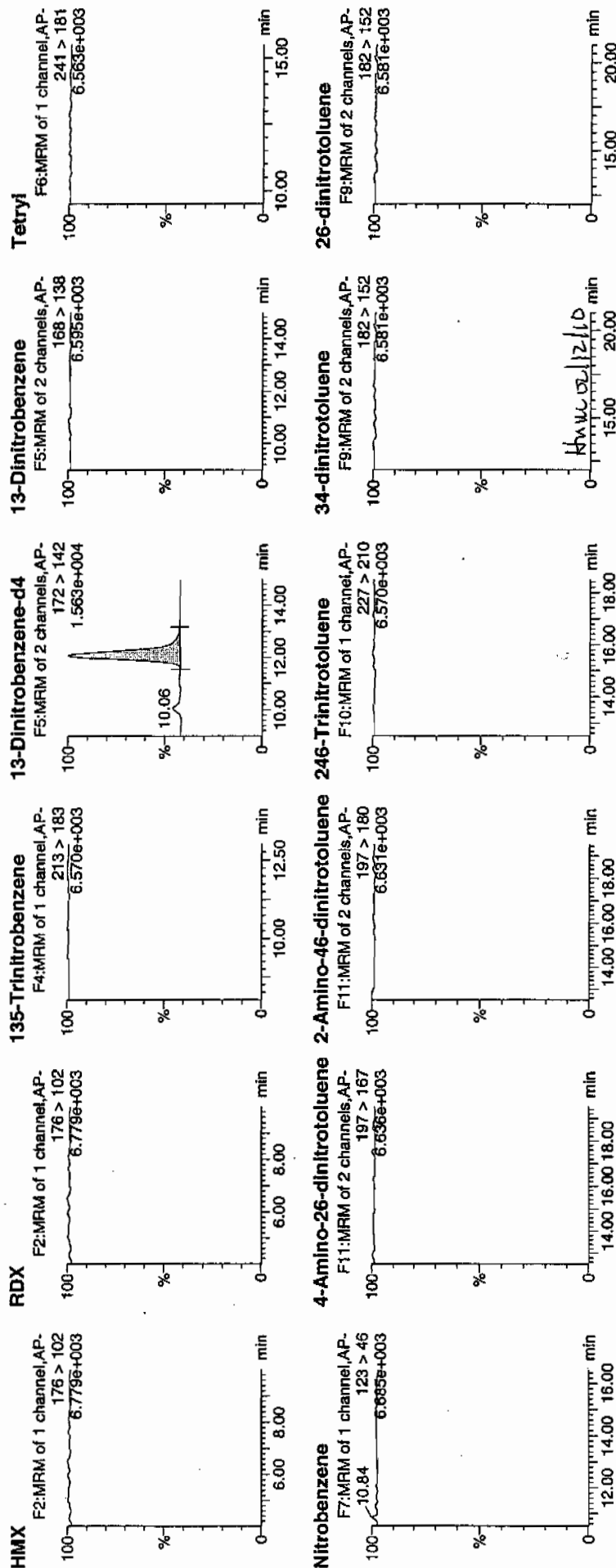
Date: 11-Feb-2010

Time: 14:03:38

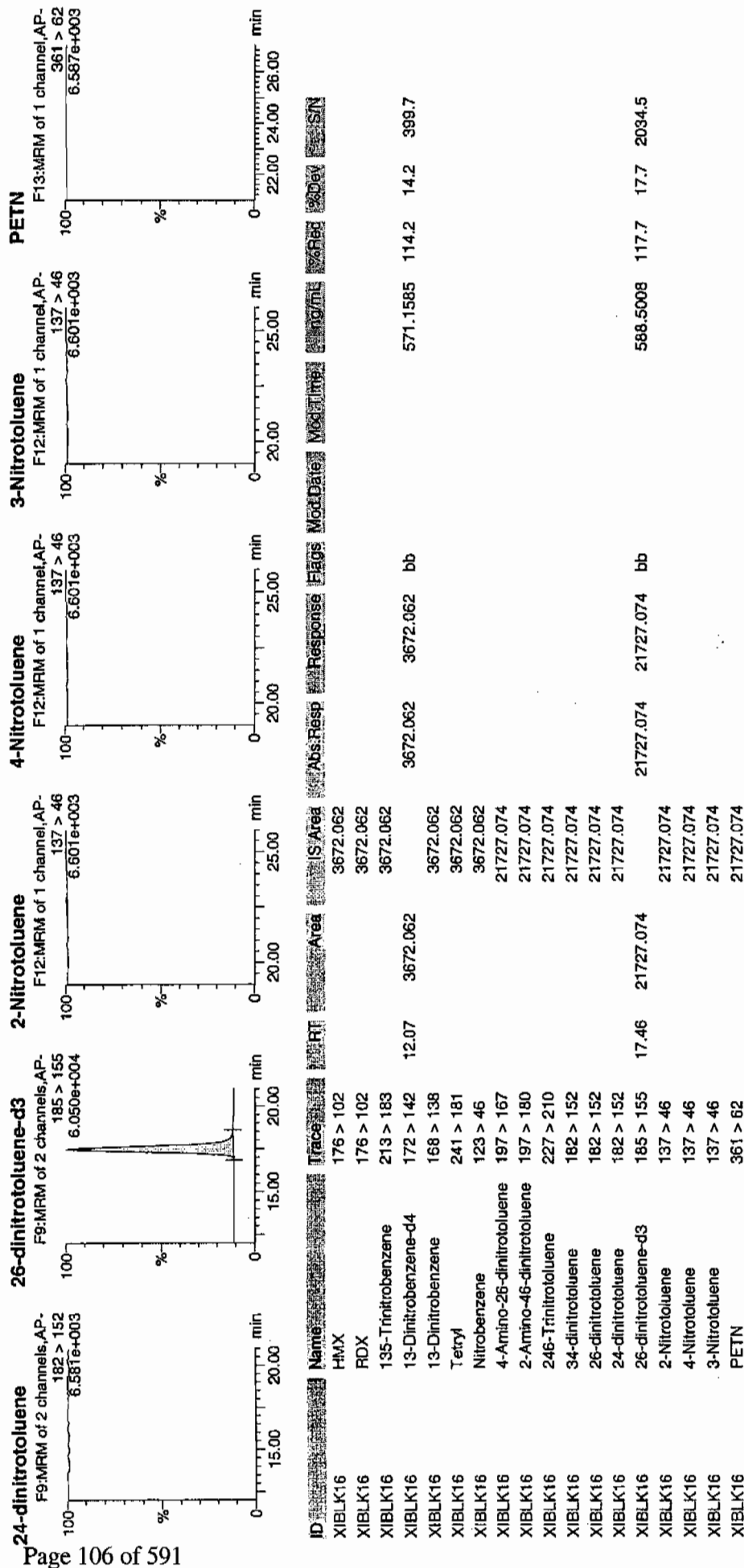
ID: XIBLK16

Vial: 1:1,A

11/2/10



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:48 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK17

Analysis Date: 11-FEB-10 18:58

GEL Data File: EXP0208156a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	492.787
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	564
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208156a

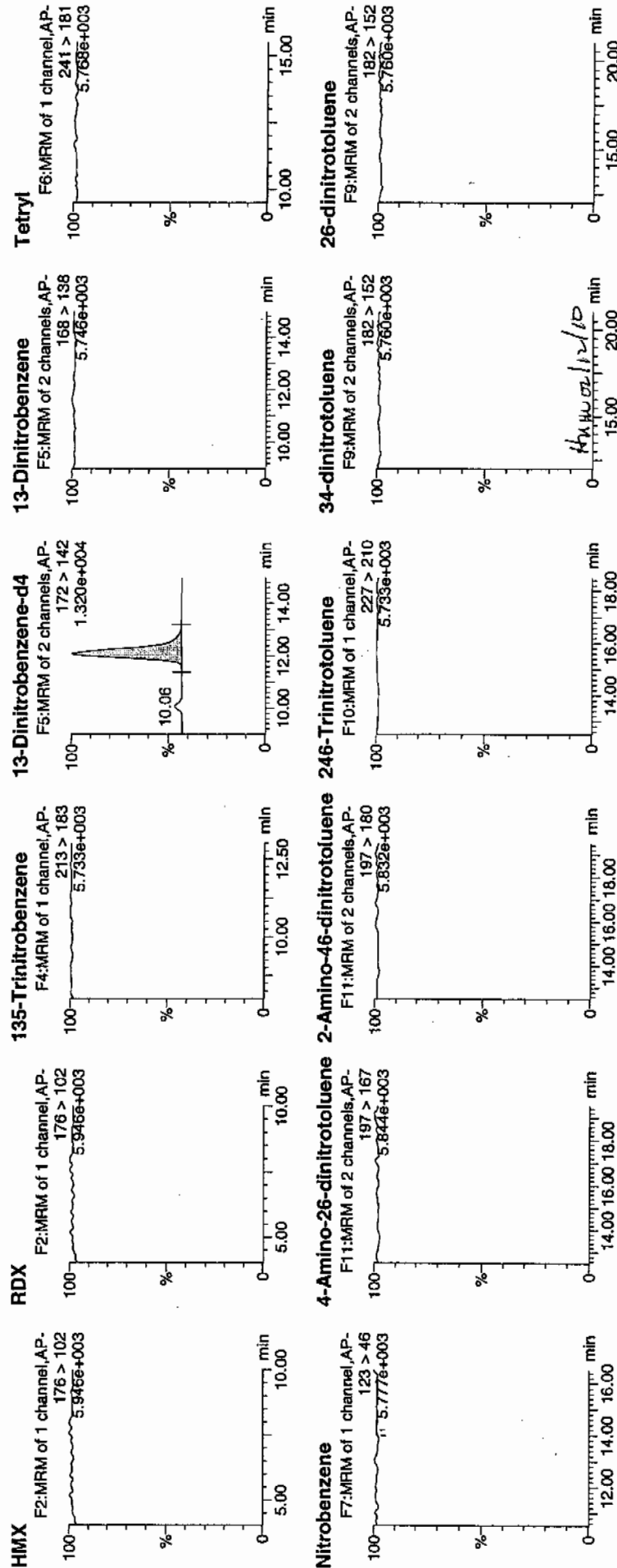
Date: 11-Feb-2010

Time: 18:58:59

ID: XIBLK17

Vial: 1:1,A

WAP  
12/10

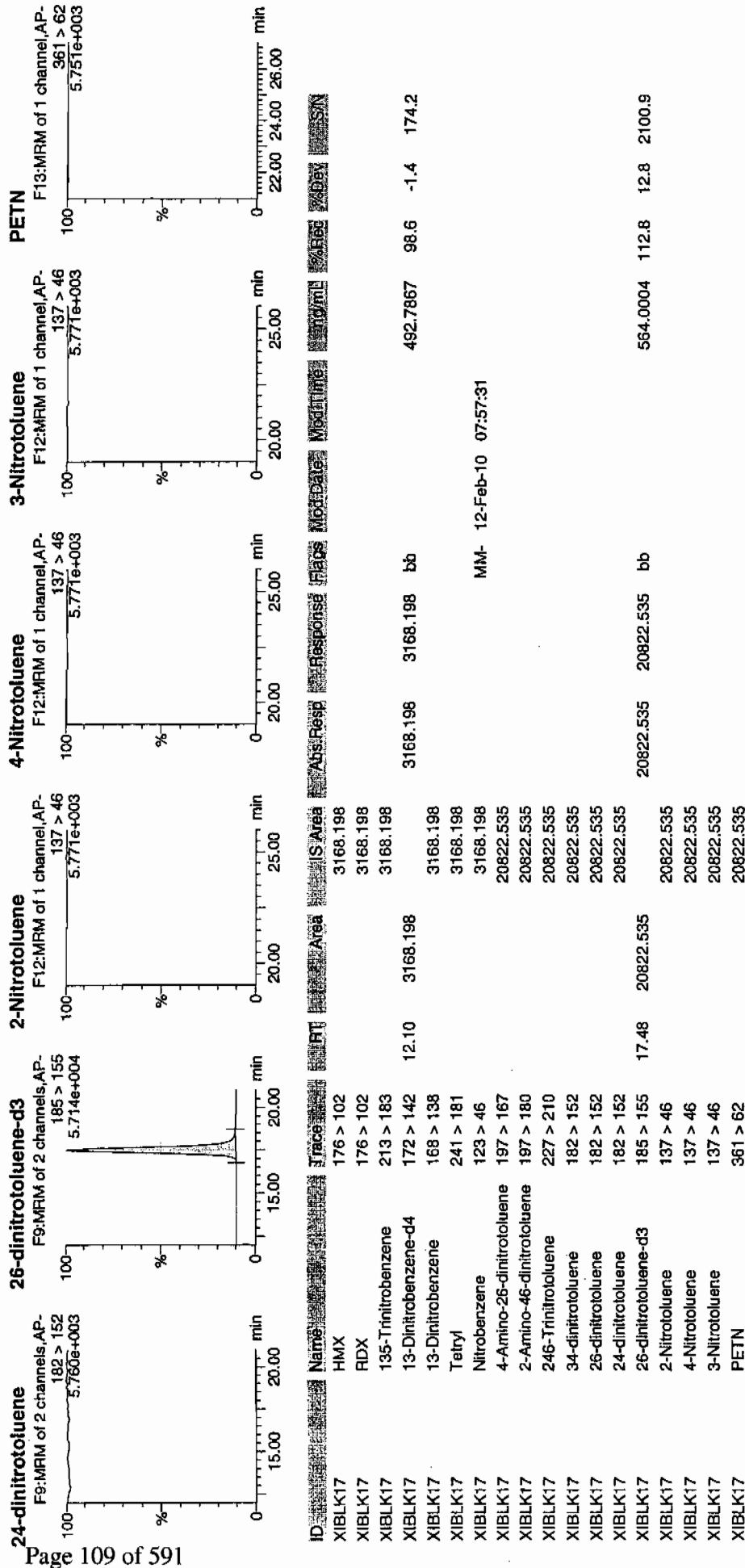


# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010





4A  
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK18

Analysis Date: 12-FEB-10 01:22

GEL Data File: EXP0208169a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	437.531
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	440.022
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Feb 12 08:13:51 2010, Page 67 of 93

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208169a

Date: 12-Feb-2010

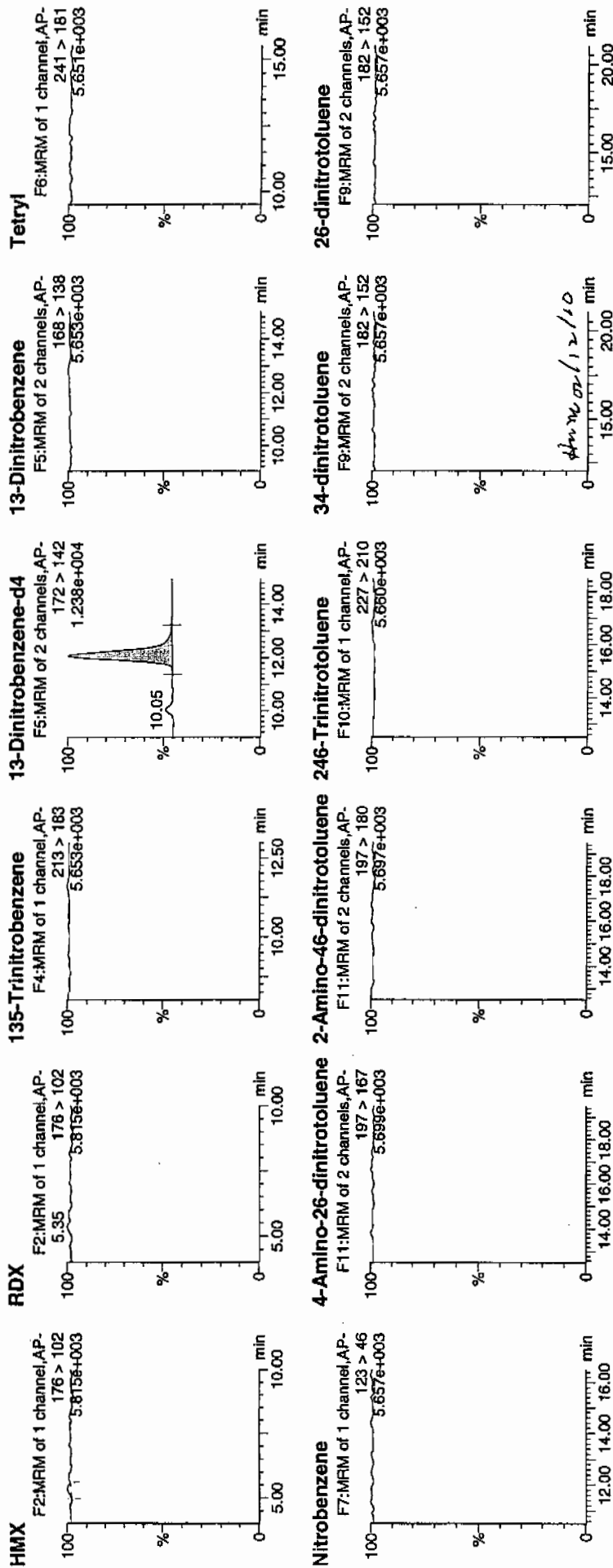
Time: 01:22:24

ID: XIBLK18

Vial: 1:1,A

WAT  
2/12/10

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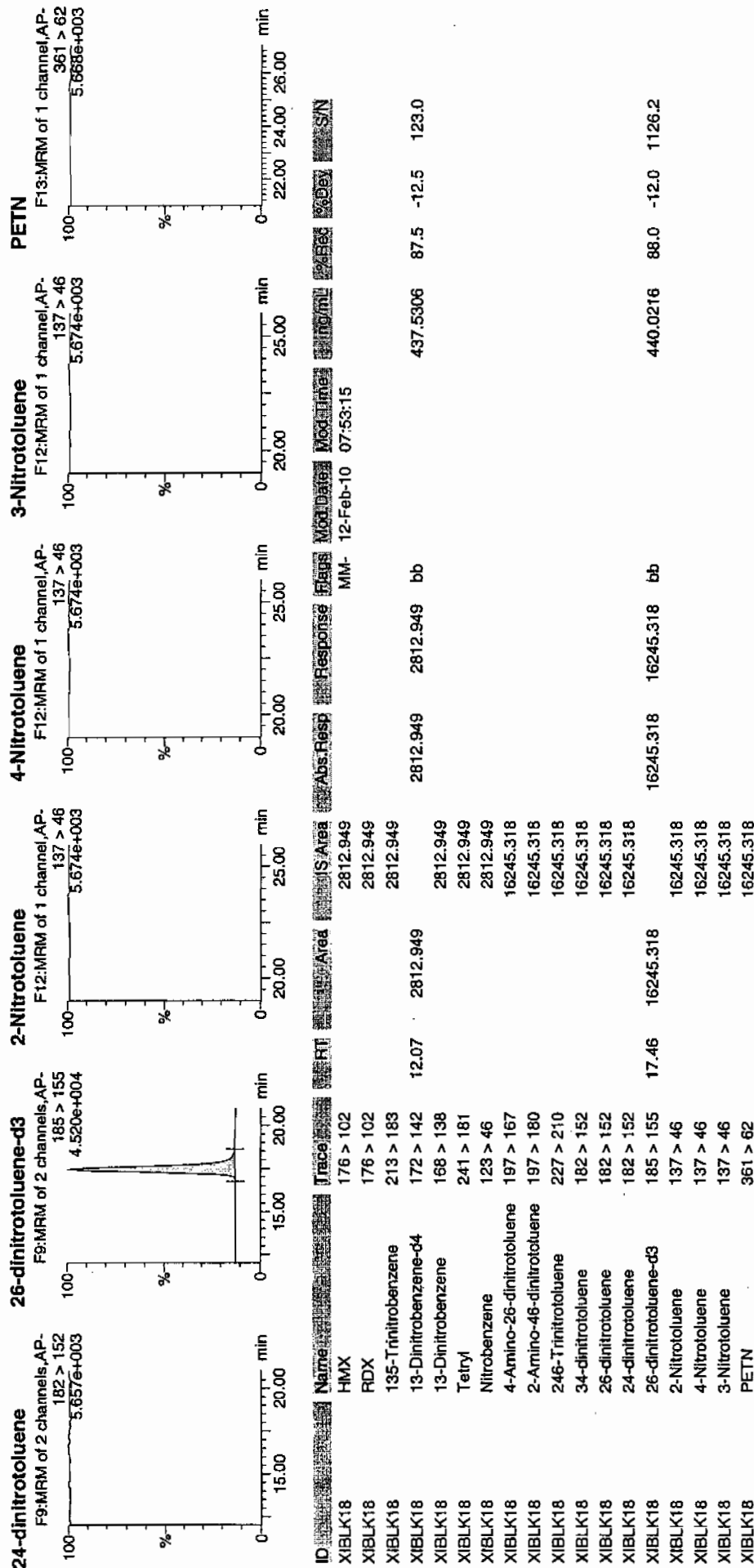


# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Fri Feb 12 08:13:51 2010, Page 68 of 93

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



4A  
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK19

Analysis Date: 12-FEB-10 06:47

GEL Data File: EXP0208180a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	487.474
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	475.411
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

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208180a

Date: 12-Feb-2010

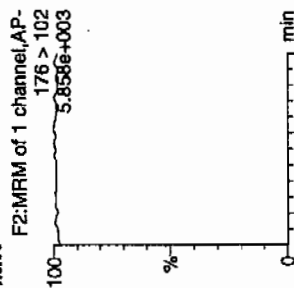
Time: 06:47:03

ID: XIBLK19

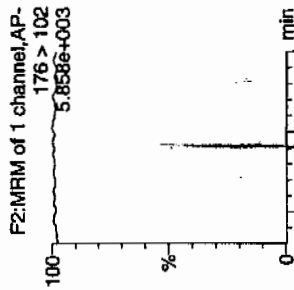
Vial: 1:1,A

12/12/10

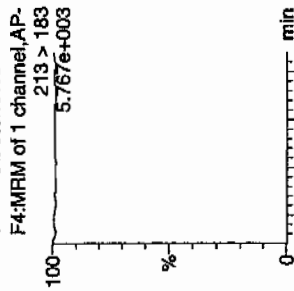
HMX



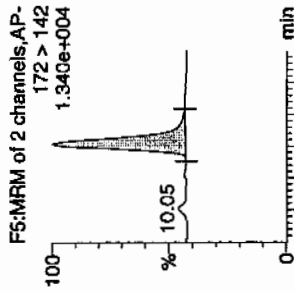
RDX



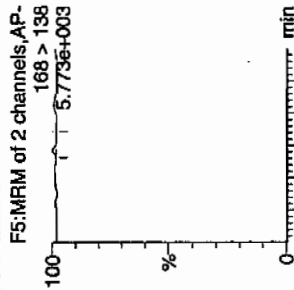
135-Trinitrobenzene



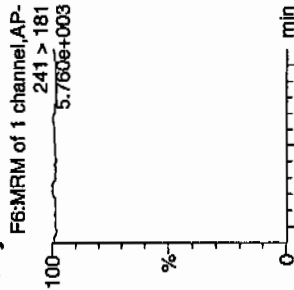
13-Dinitrobenzene-d4



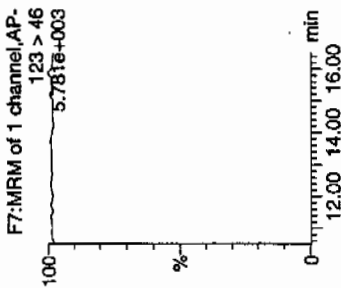
13-Dinitrobenzene



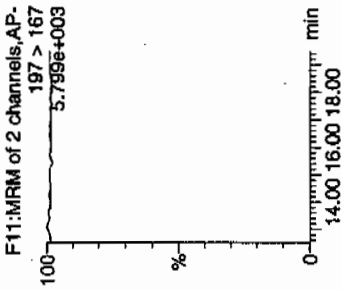
Tetryl



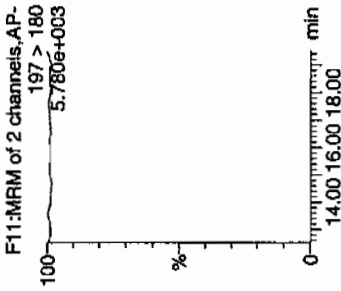
Nitrobenzene



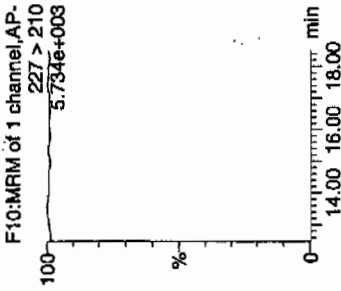
4-Amino-26-dinitrotoluene



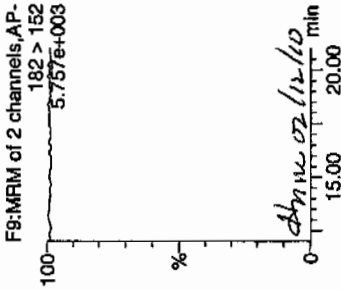
2-Amino-46-dinitrotoluene



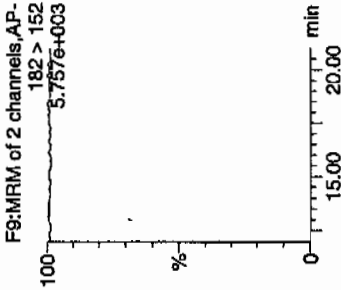
246-Trinitrotoluene



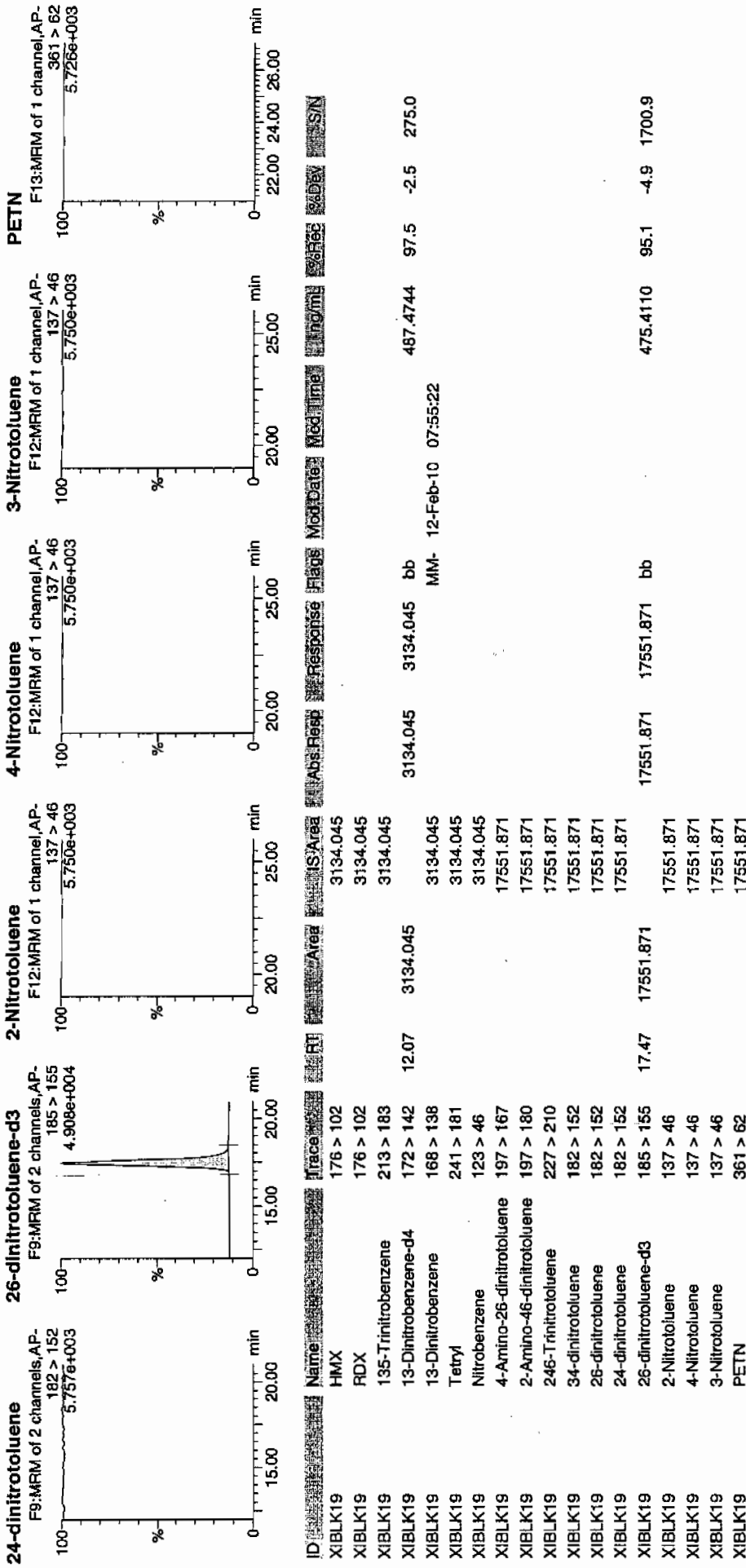
34-dinitrotoluene



26-dinitrotoluene



Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 12-FEB-10 13:47

GEL Data File: EXS02120010.wiff

Instrument ID: LCMSMS

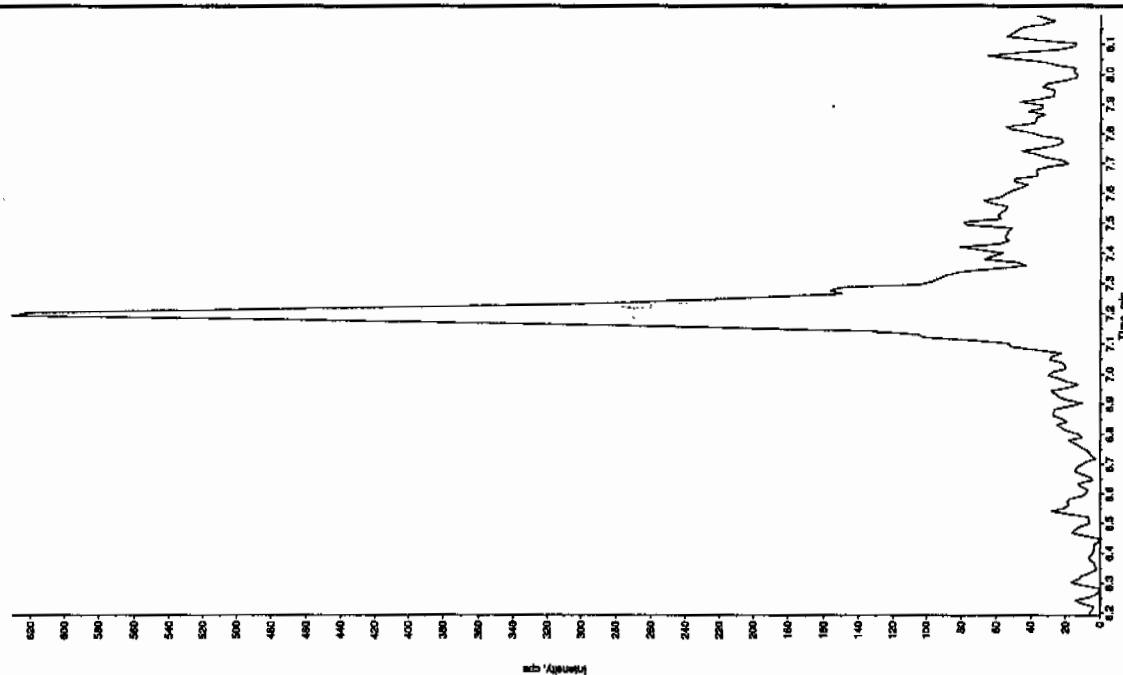
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	5.19
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 2/15/10

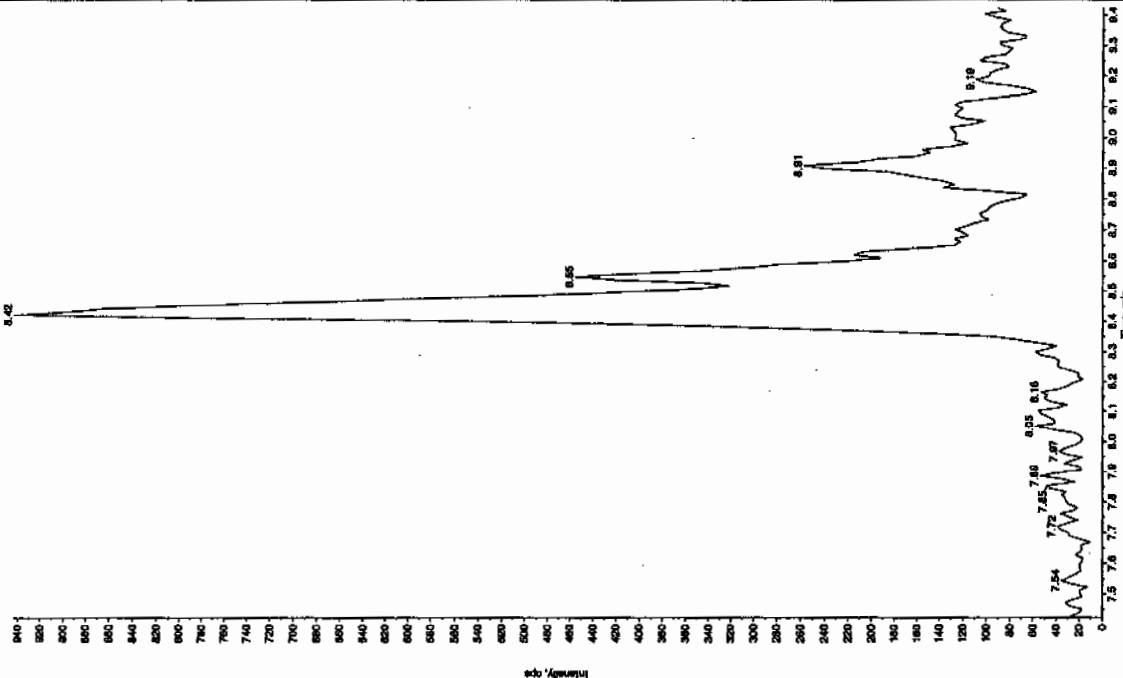
Sample Name: "XBL002" Sample ID: "TILEY" File: "EXS02120010.wif"  
Peak Name: "TATB" Mass(es): 257.2204.9 amu  
Comment: "LCMSEXP\_B" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 2/12/2010  
Acq. Date: 1:47:51 PM  
Acq. Time: 1:47:51 PM  
Modified: No



Sample Name: "XBL002" Sample ID: "TILEY" File: "EXS02120010.wif"  
Peak Name: "3S-Dinitroaniline" Mass(es): 182.046.0 amu  
Comment: "LCMSEXP\_B" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 2/12/2010  
Acq. Date: 1:47:51 PM  
Acq. Time: 1:47:51 PM  
Modified: No

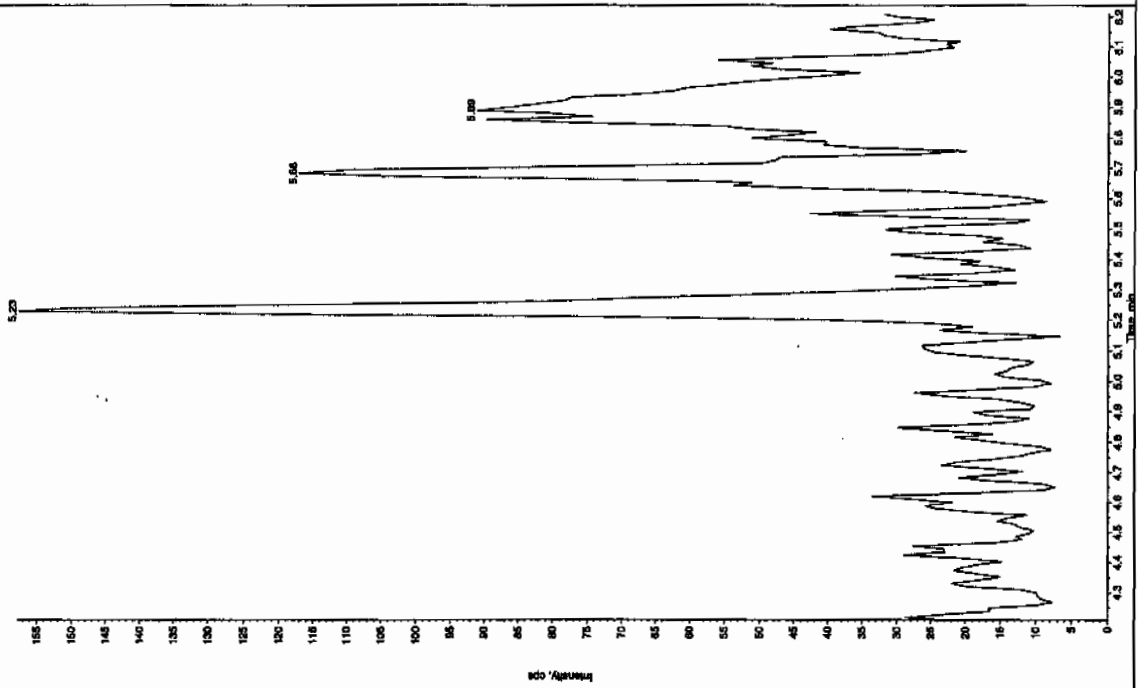


Jan 2/15/10



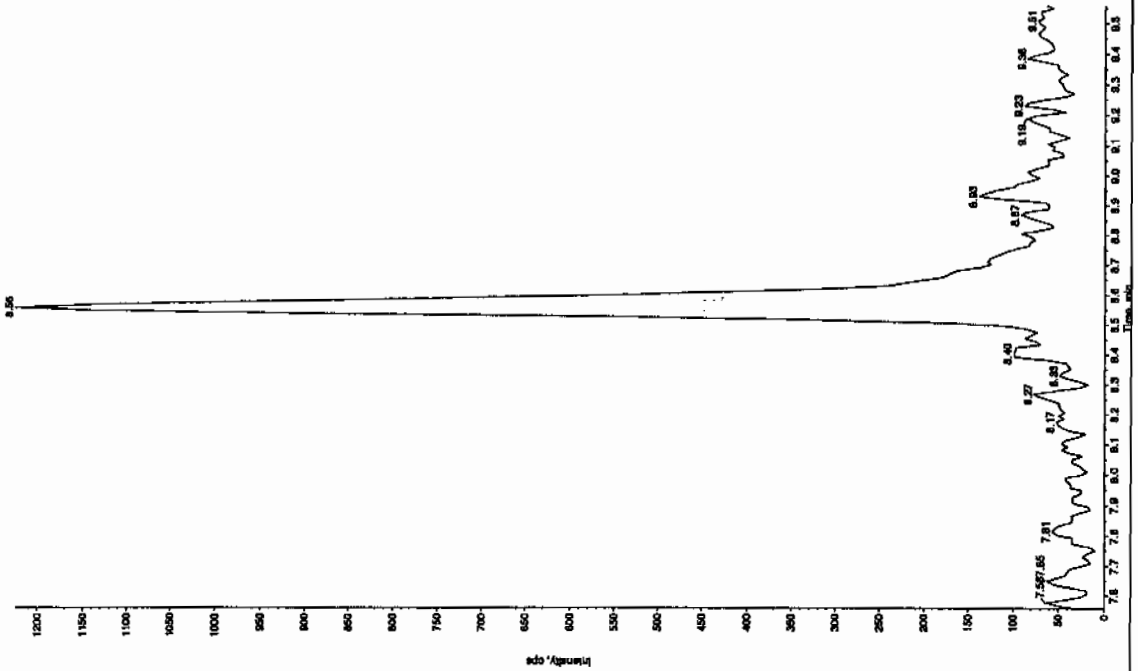
Sample Name: "XBLK02" Sample ID: "111111" File: "EXS02120010.wif"  
 Peak Name: "26-Dichloro-4-methylphenol" Mass(es): "166.0460 amu"  
 Comment: "LONGEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 1:47:51 PM  
 Modified: No



Sample Name: "XBLK02" Sample ID: "111111" File: "EXS02120010.wif"  
 Peak Name: "34-Dichlorophenol" Mass(es): "182.1761 amu"  
 Comment: "LONGEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 1:47:51 PM  
 Modified: No



Sample Name: "XBLK02" Sample ID: "J11LEH" File: "EXS02120010.wif"  
 Peak Name: "24-Diamino-6-nitroindane" Mass(es): "186.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

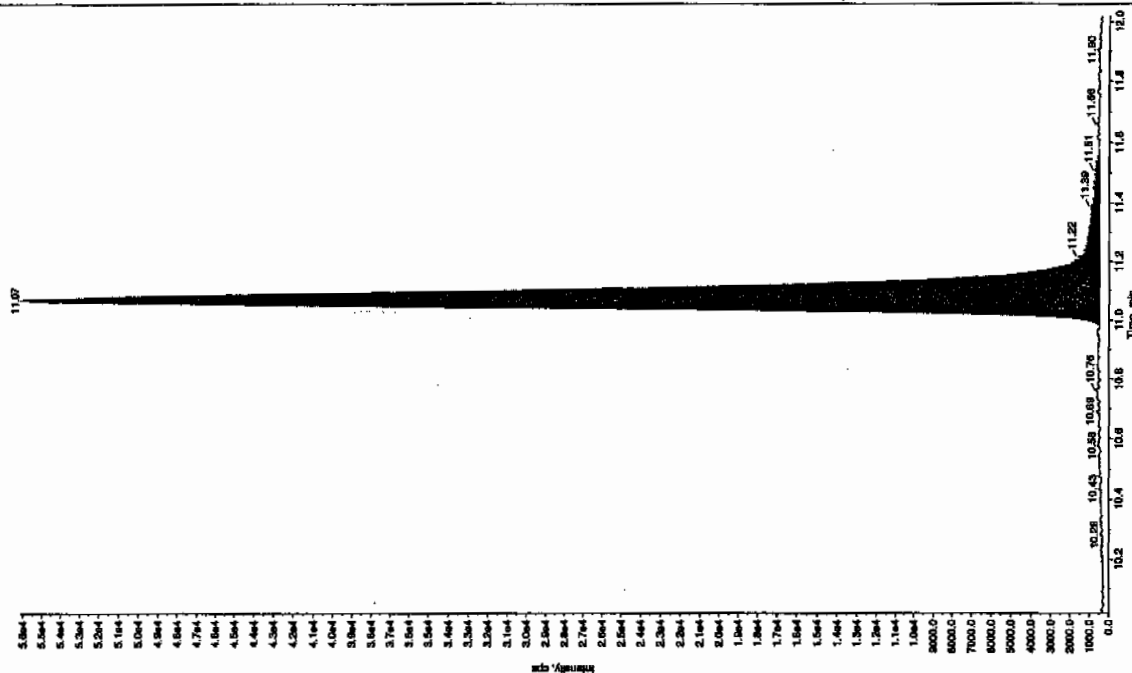
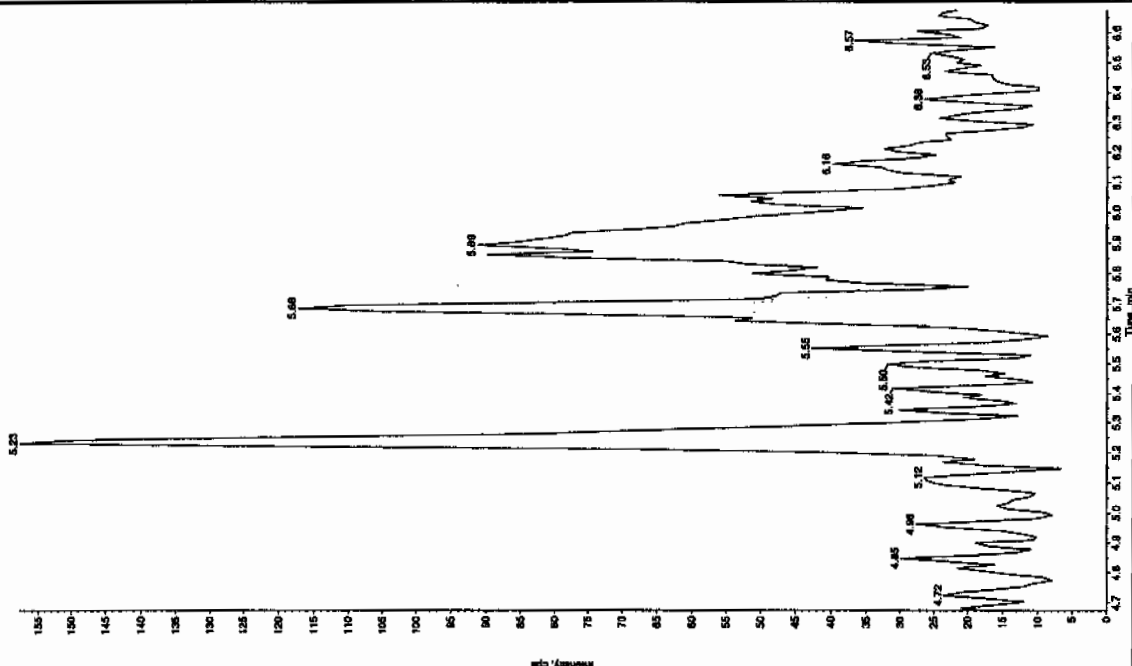
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 2/12/2010  
 Acq. Date: 2/12/2010  
 Acq. Time: 1:47:31 PM  
 Modified: No

Proc. Algorithm: IntelliQuan - ICA  
 Min. Peak Height: 1.00e4 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 11.0 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 11.1 min  
 Area: 2.56e+005 counts  
 Height: 55649.212 cps  
 Start Time: 11.0 min  
 End Time: 11.6 min

Sample Name: "XBLK02" Sample ID: "J11LEH" File: "EXS02120010.wif"  
 Peak Name: "Ms(O-creyl) phosphatid" Mass(es): "389.1811.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 5.19 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 1:47:31 PM  
 Modified: No

Proc. Algorithm: IntelliQuan - ICA  
 Min. Peak Height: 1.00e4 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 11.0 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 11.1 min  
 Area: 2.56e+005 counts  
 Height: 55649.212 cps  
 Start Time: 11.0 min  
 End Time: 11.6 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK03

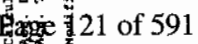
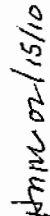
Analysis Date: 12-FEB-10 14:19

GEL Data File: EXS02120012.wiff

Instrument ID: LCMSMS

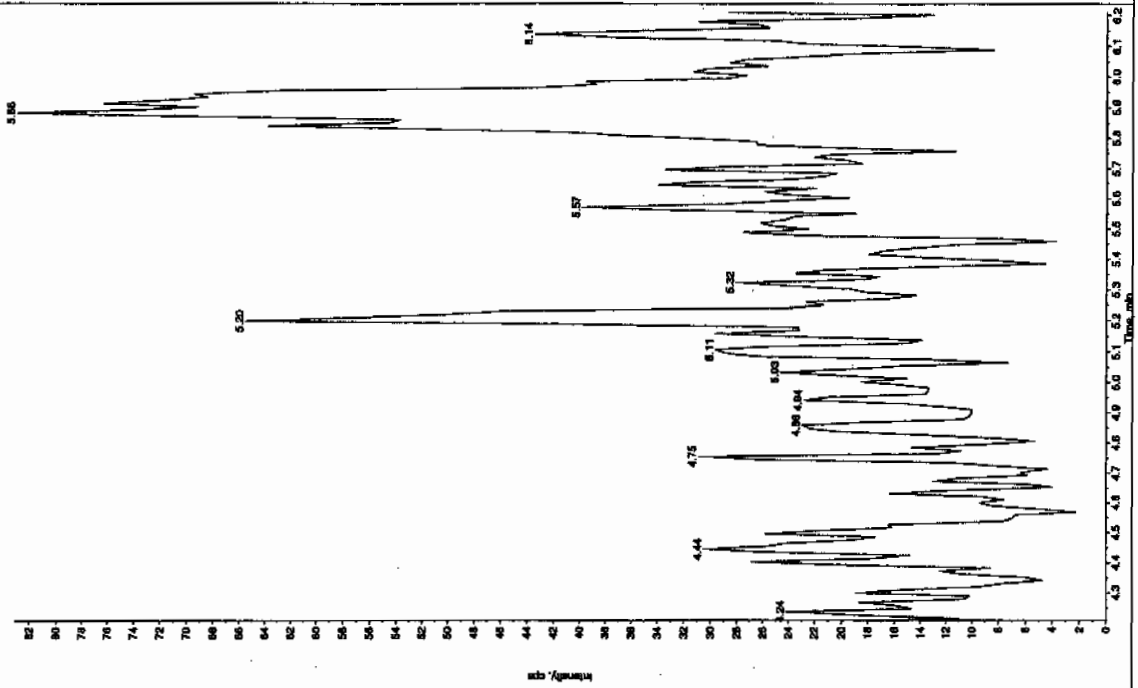
Column: Phenomenex Ultracarb 5u QDS(20)

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



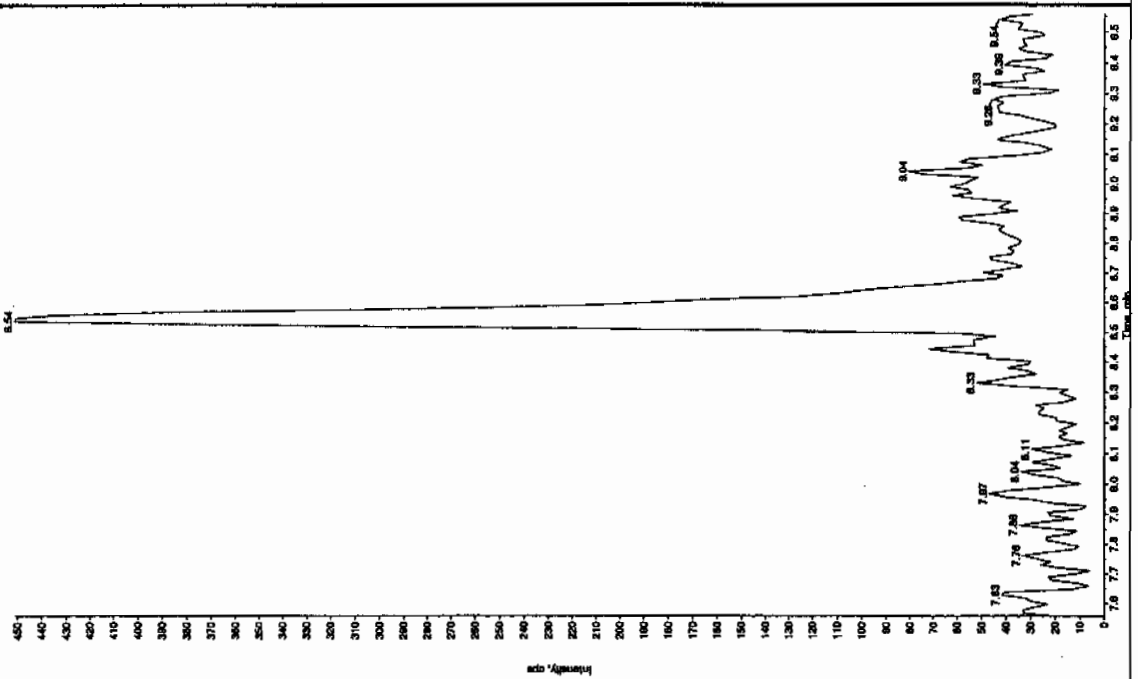
Sample Name: "XBLK03" Sample ID: "111111" File: "EXS22120012.wit"  
 Peak Name: "25-Dinitro-4-nitrobenzene" Mass(es): "166.046.0 amu"  
 Comment: "LC/MS/MS" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 2:19:15 PM  
 Modified: NO



Sample Name: "XBLK03" Sample ID: "111111" File: "EXS22120012.wit"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1715.8 amu"  
 Comment: "LC/MS/MS" Annotation: ""

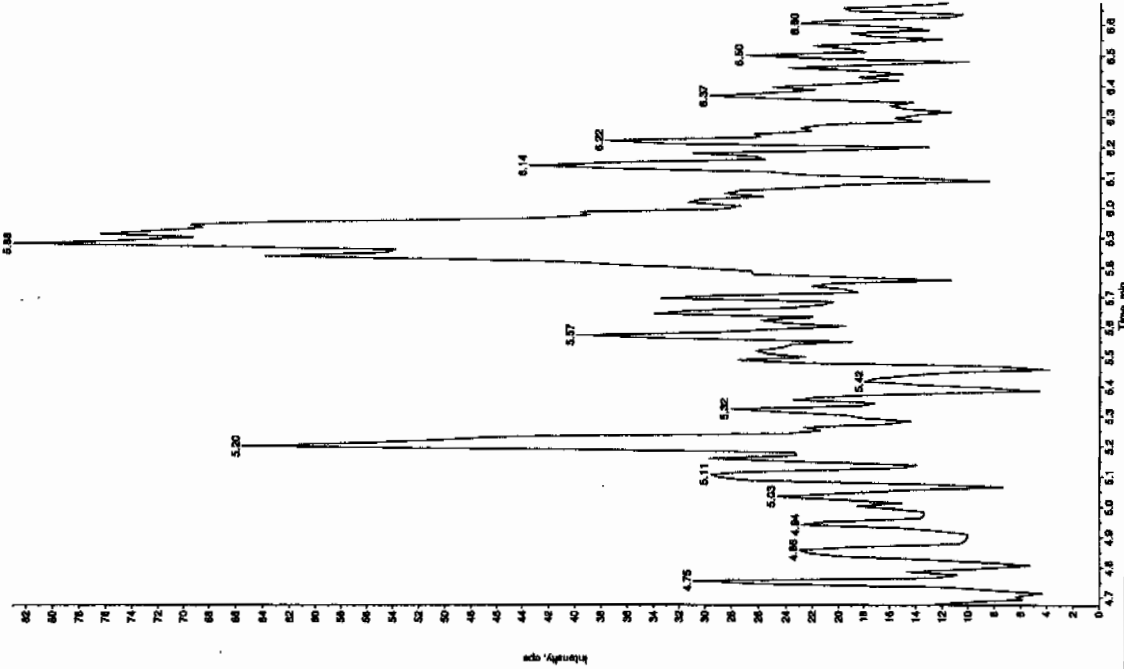
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 2:19:15 PM  
 Modified: NO



Sample Name: "XIBLK03" Sample ID: "TILLER" File: "EXS02120012.wif"  
 Peak Name: "24-Diamino-6-microdure" Mass(es): "186.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 2:19:15 PM  
 Modified: No

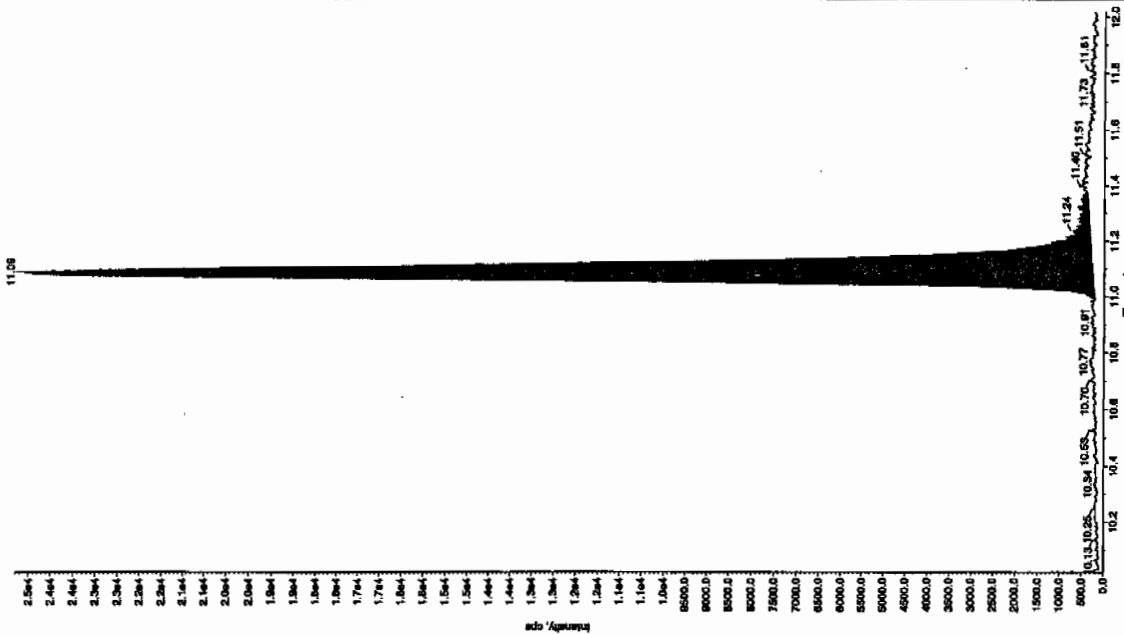
23 of 591



Sample Name: "XIBLK03" Sample ID: "TILLER" File: "EXS02120012.wif"  
 Peak Name: "16a(o-cresyl) phosphate" Mass(es): "359.191.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: No Intercept  
 Acq. Date: 2/12/2010  
 Acq. Time: 2:19:15 PM  
 Modified: No

Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 1.00e4 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Search RT: 11.0 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 11.1 min  
 Area: 1.08e+005 counts  
 Height: 24543.007 cps  
 Start Time: 11.0 min  
 End Time: 11.4 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 12-FEB-10 17:43

GEL Data File: EXS02120025.wiff

Instrument ID: LCMSMS

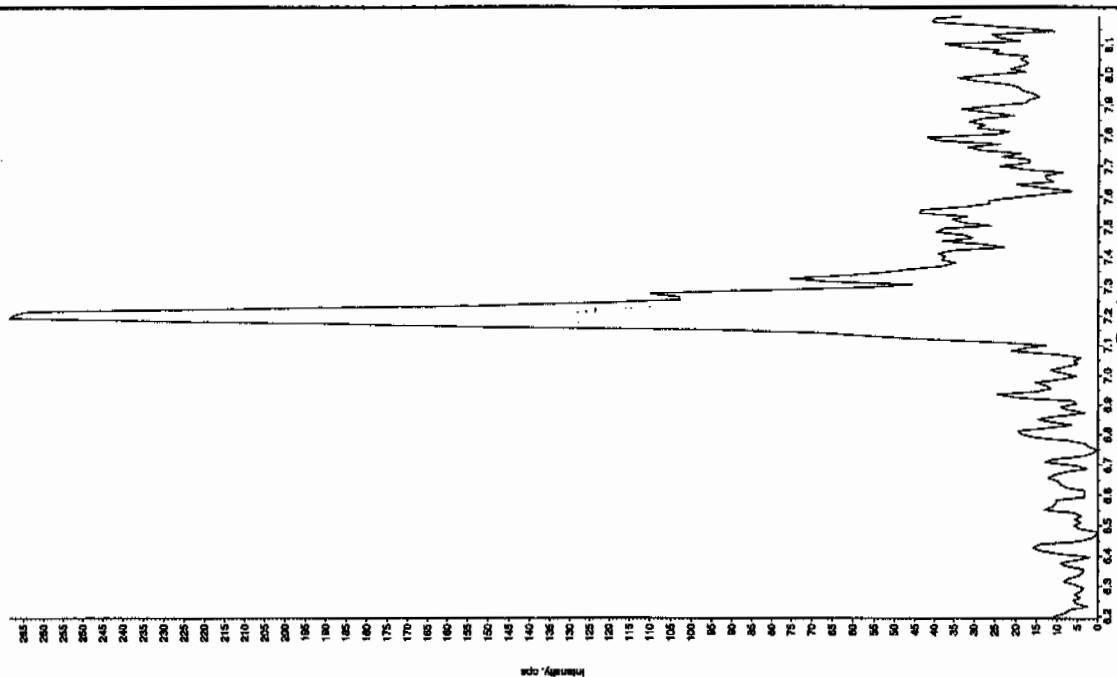
Column: Phenomenex Ultracarb 5u ODS(20)

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

San 2/15/10

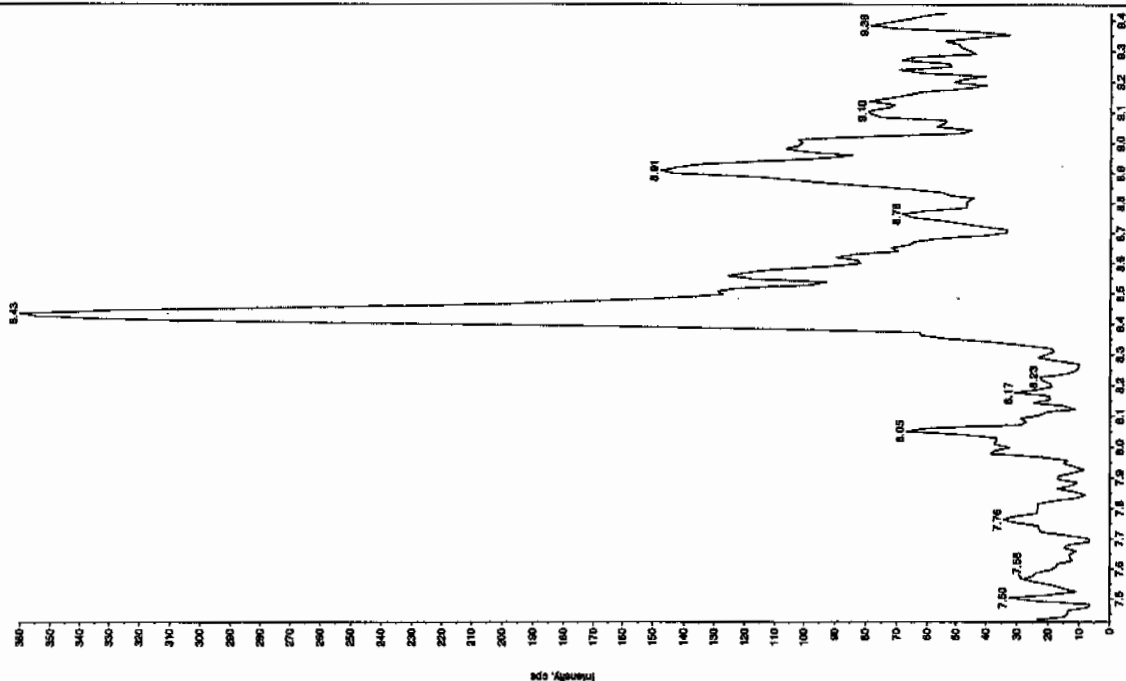
Sample Name: "XIBUKO4" Sample ID: "1111ER" File: "EX02120025.wif"  
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
 Comment: "LOMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 2/12/2010  
 Acq. Date: 5:43:19 PM  
 Acq. Time: 5:43:19 PM  
 Modified: No



Sample Name: "XIBUKO4" Sample ID: "1111ER" File: "EX02120025.wif"  
 Peak Name: "35-Dehydroanthracene" Mass(es): "162.046.0 amu"  
 Comment: "LOMSEXP\_B" Annotation: "

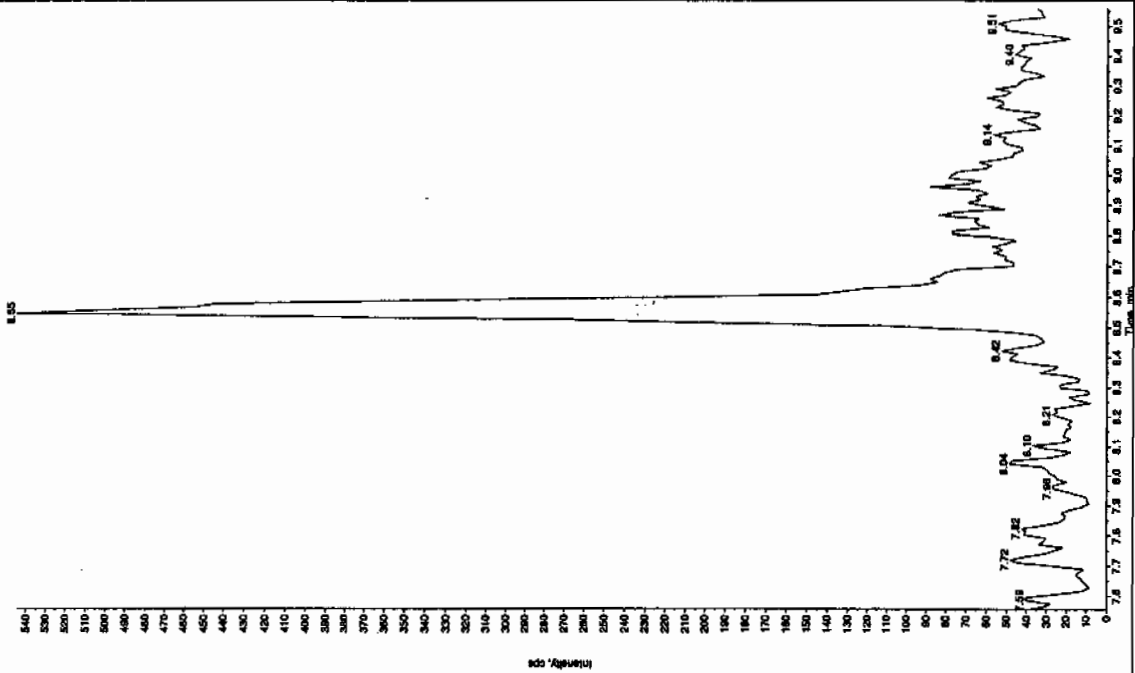
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 2/12/2010  
 Acq. Date: 5:43:19 PM  
 Acq. Time: 5:43:19 PM  
 Modified: No





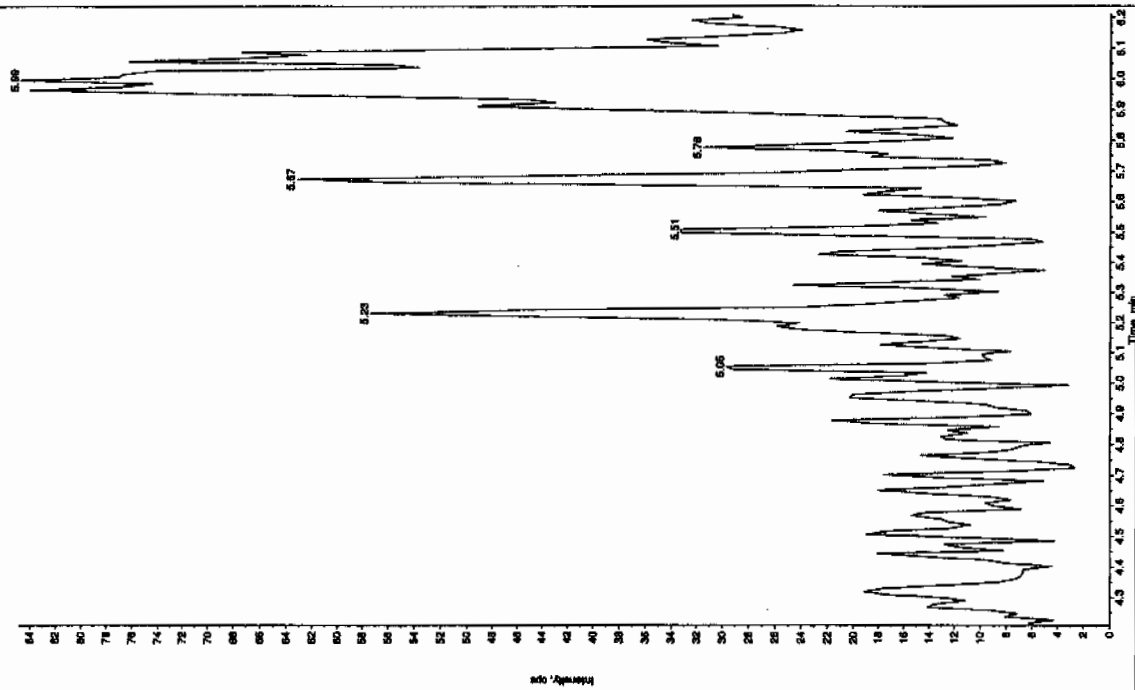
Sample Name: "XBLJ04" Sample ID: "1111ER" File: "EX502120025.wif"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "152.17151.9 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 2/12/2010  
 Acq. Date: 5:43:19 PM  
 Modified: No



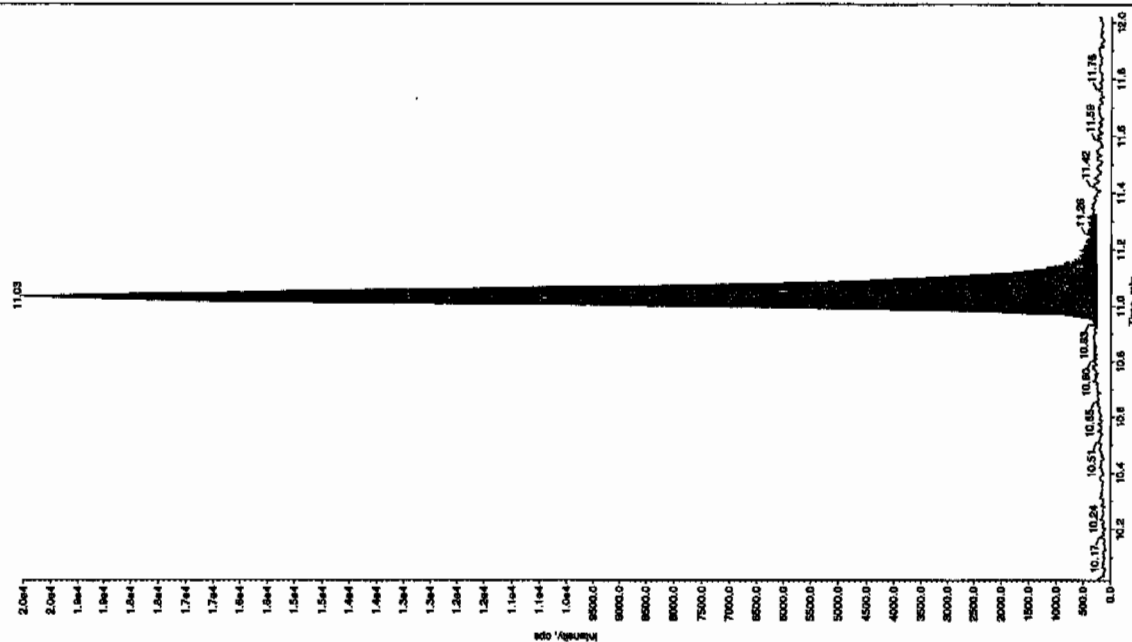
Sample Name: "XBLJ04" Sample ID: "1111ER" File: "EX502120025.wif"  
 Peak Name: "28-Dinitro-4-nitrobenzene" Mass(es): "166.04610 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 2/12/2010  
 Acq. Date: 5:43:19 PM  
 Modified: No



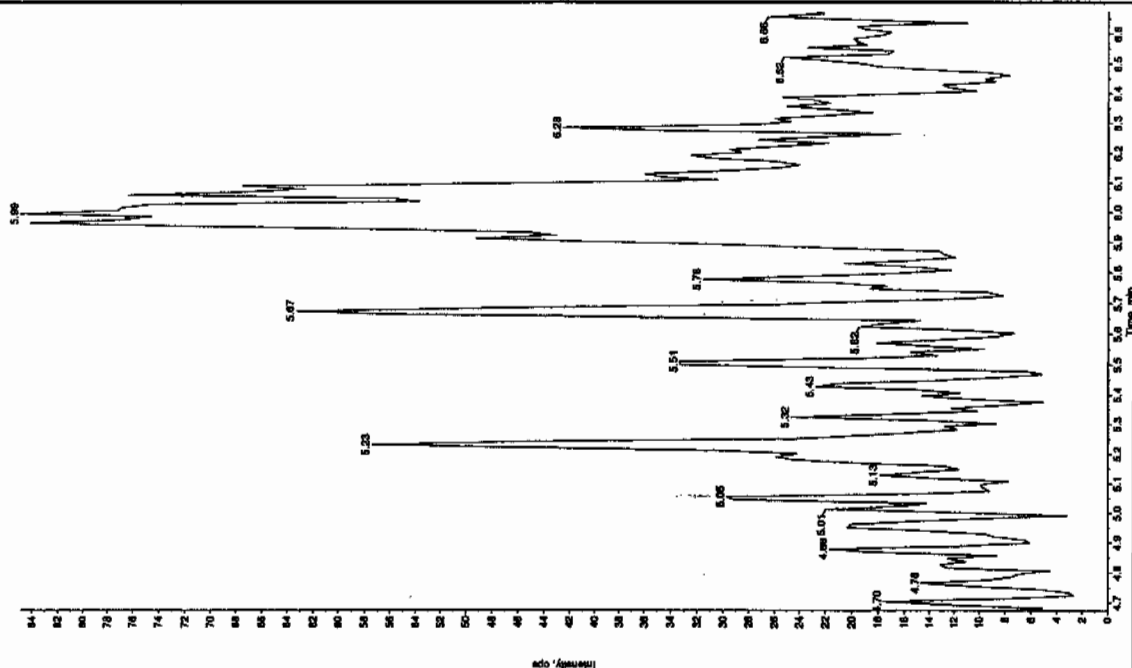
Sample Name: "KBL004" Sample ID: "111ER" File: "EX0212005.wif"  
 Peak Name: "bis(oxymethyl) phosphate" Mass(es): "369.101.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: No Intercept  
 Acq. Date: 2/12/2010  
 Acq. Time: 5:43:19 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 1.00e4 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 11.0 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 11.0 min  
 Area: 8.84e+004 counts  
 Height: 19754.181 cps  
 Start Time: 10.9 min  
 End Time: 11.3 min



Sample Name: "KBL004" Sample ID: "111ER" File: "EX0212005.wif"  
 Peak Name: "24-Diamino-6-ethionine" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 5:43:19 PM  
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 12-FEB-10 20:51

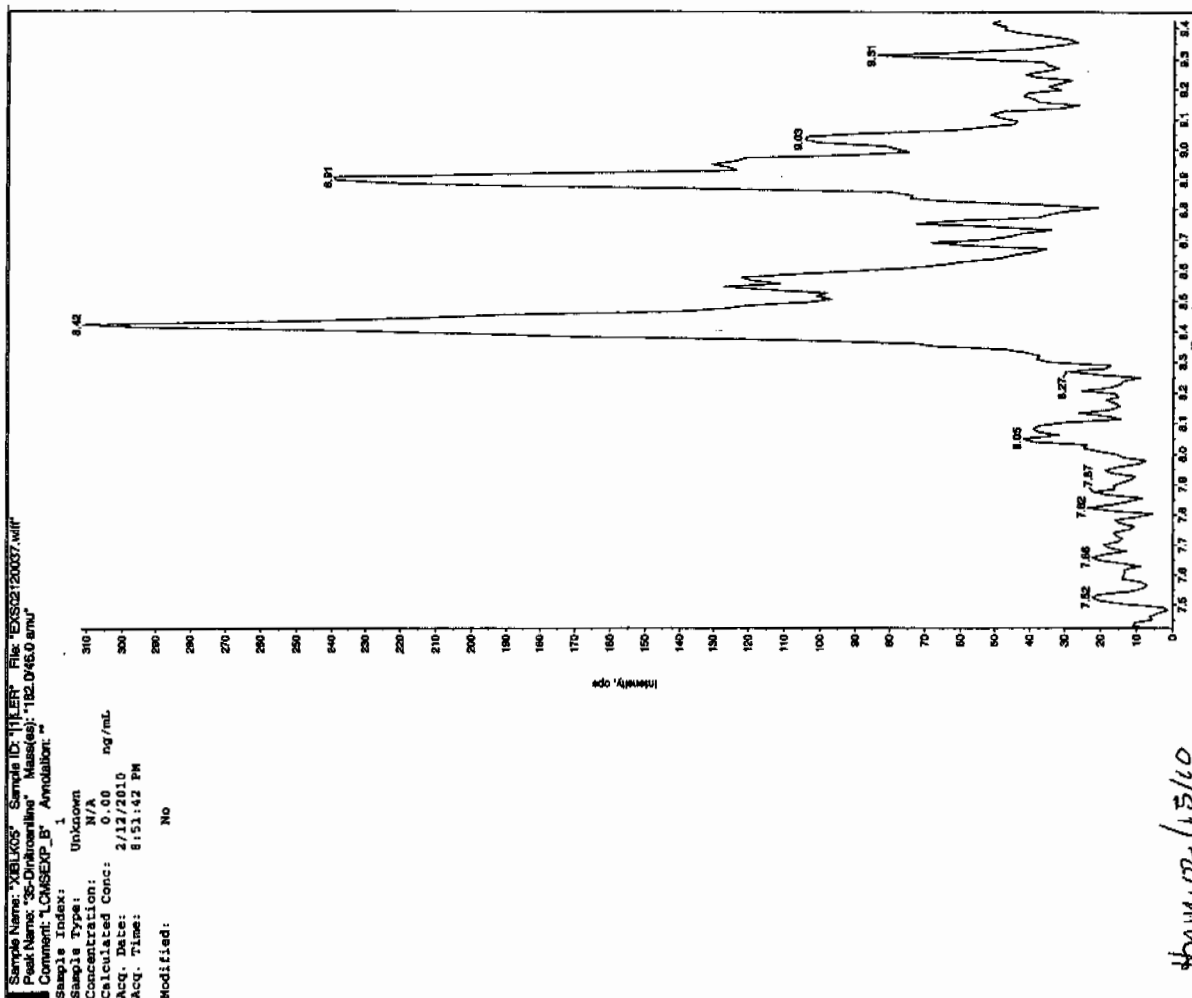
GEL Data File: EXS02120037.wiff

Instrument ID: LCMSMS

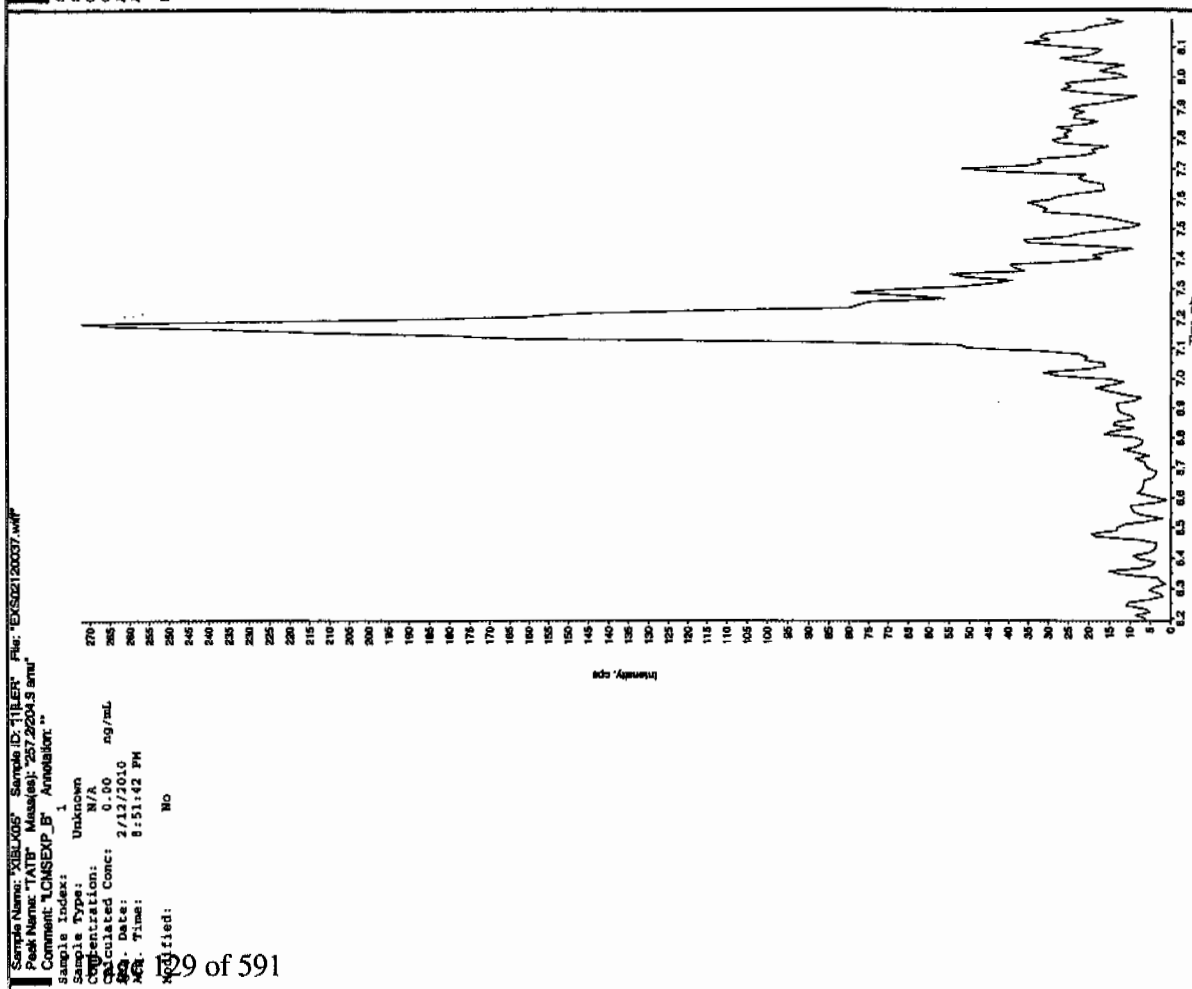
Column: Phenomenex Ultracarb 5u ODS(20)

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

See 211510

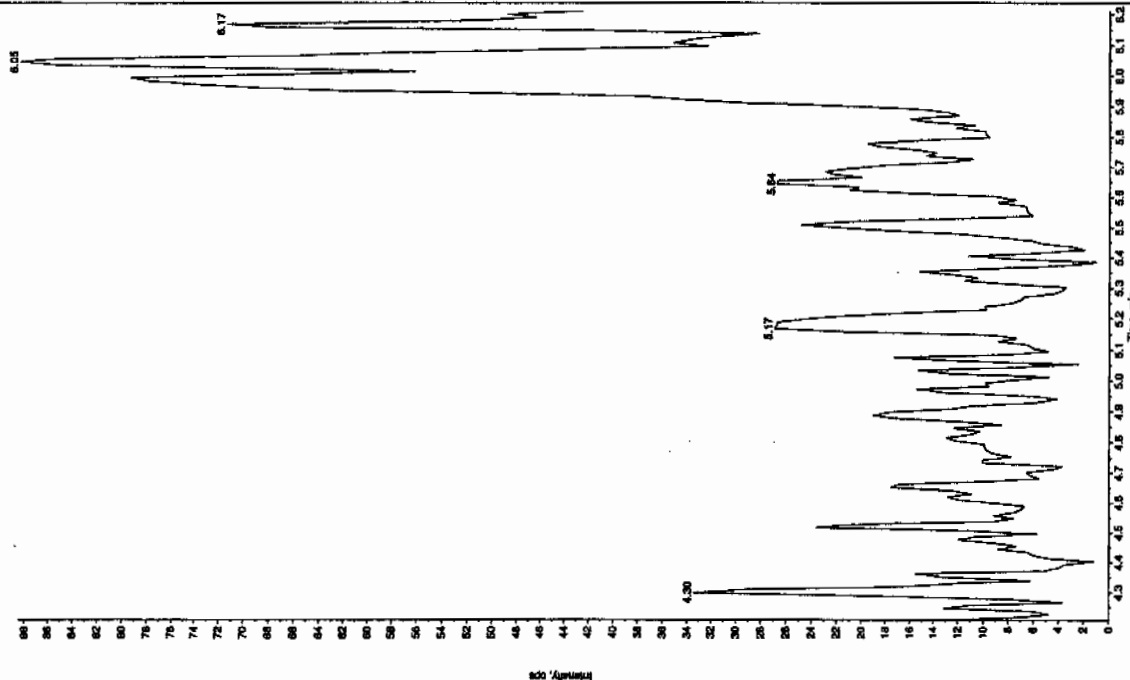


See 211510



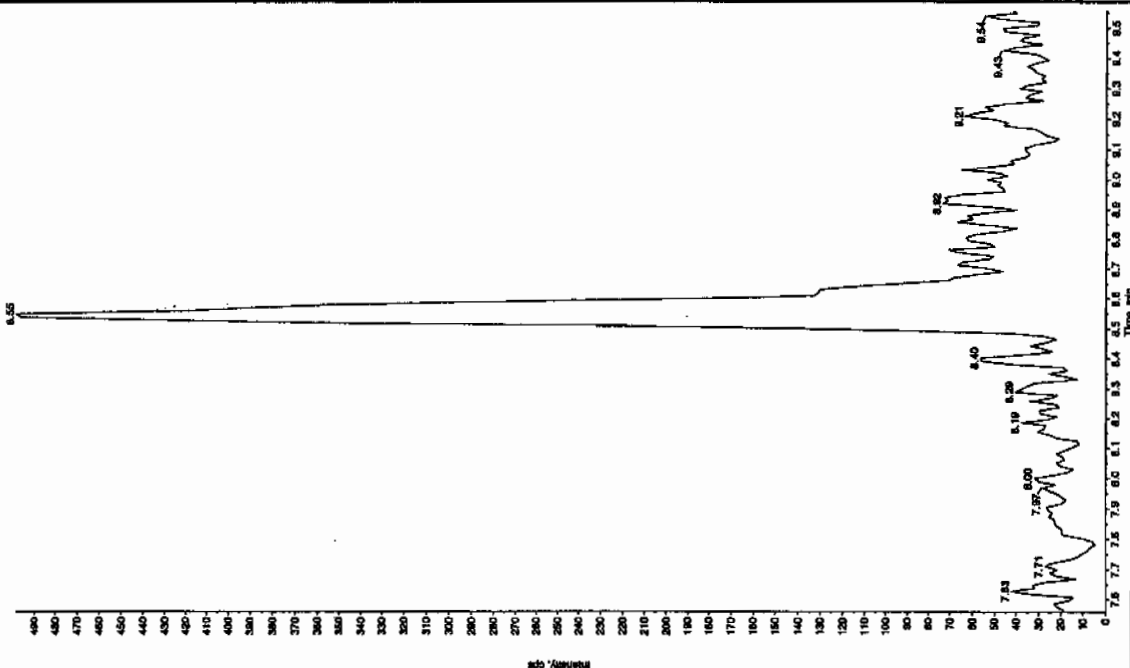
Sample Name: 'XBLK05' Sample ID: '11111' File: 'EXS02120037.wif'  
 Peak Name: '26-Dinitro-4-nitrofluorene' Mass(es): '166.046.0 amu'  
 Comment: 'LONSEXP\_B' Annotation: '-'

Sample Index: 1  
 Sample Type: Unknown  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 8:51:42 PM  
 Modified: No



Sample Name: 'XBLK05' Sample ID: '11111' File: 'EXS02120037.wif'  
 Peak Name: '34-Dinitrofluorene' Mass(es): '162.1731.9 amu'  
 Comment: 'LONSEXP\_B' Annotation: '-'

Sample Index: 1  
 Sample Type: Unknown  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 8:51:42 PM  
 Modified: No



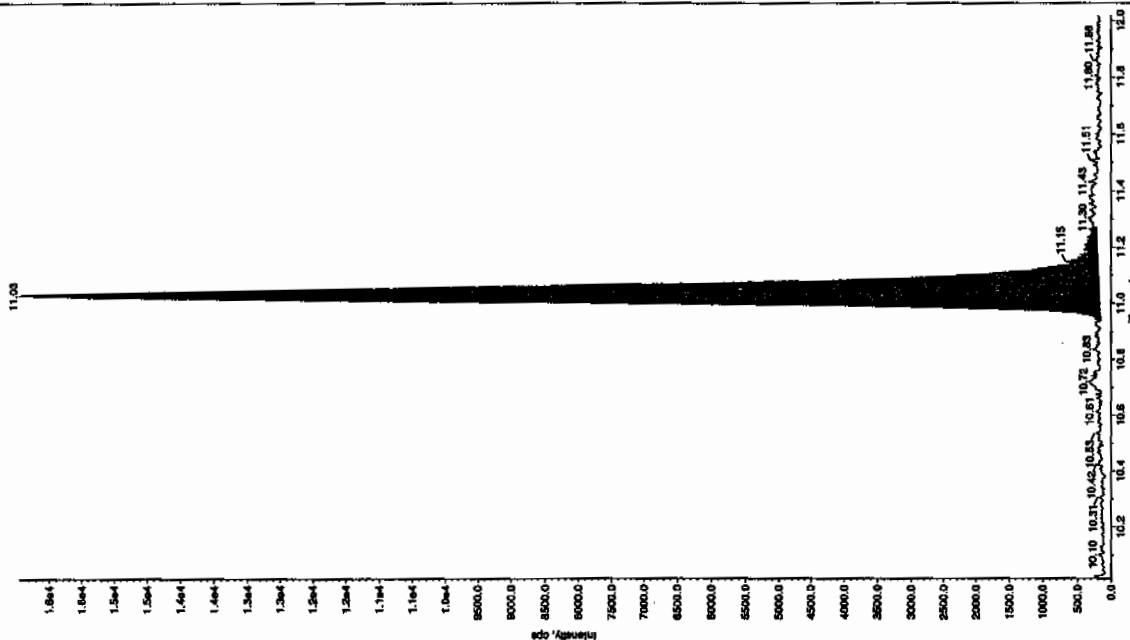
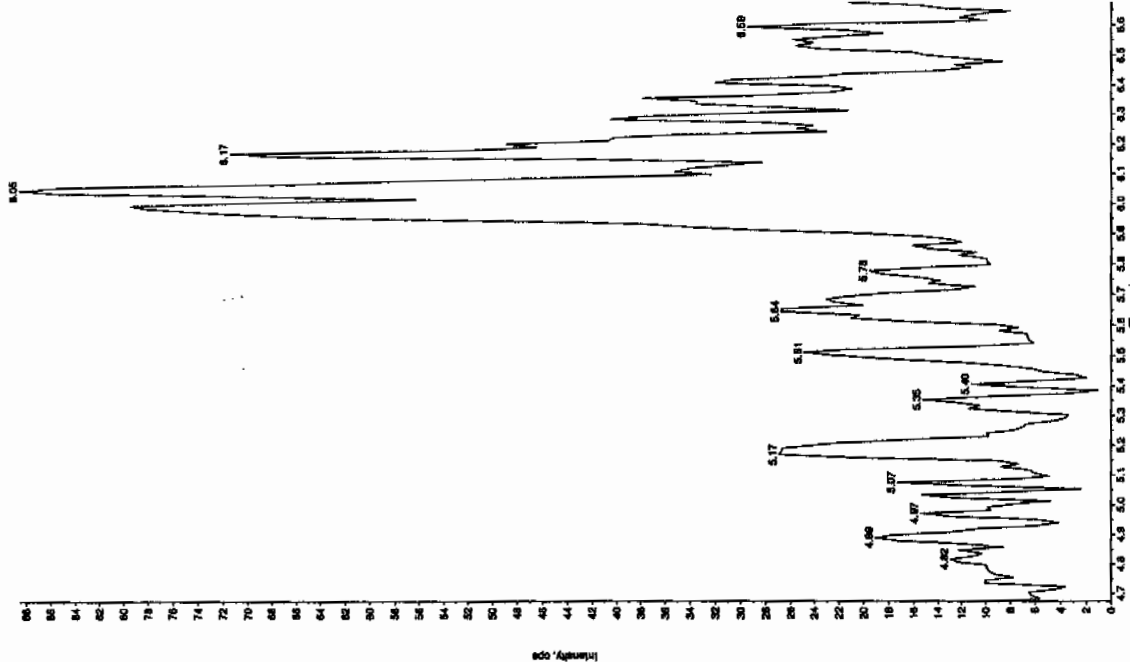
Sample Name: "XBLUG05" Sample ID: "111111" File: "EX502120037.wif"  
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "186.046.0 amu"  
 Comment: "LONSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 8:51:42 PM  
 Modified: No

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Sample Name: "XBLUG05" Sample ID: "111111" File: "EX502120037.wif"  
 Peak Name: "tri(2-oxoethyl) phosphite" Mass(es): "269.191.0 amu"  
 Comment: "LONSEXP\_B" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: No Intercept  
 Acq. Date: 2/12/2010  
 Acq. Time: 8:51:42 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 1.00e4 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 11.0 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 11.0 min  
 Area: 6.44e+004 counts  
 Height: 16270.803 cps  
 Start Time: 10.3 min  
 End Time: 11.3 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 13-FEB-10 00:15

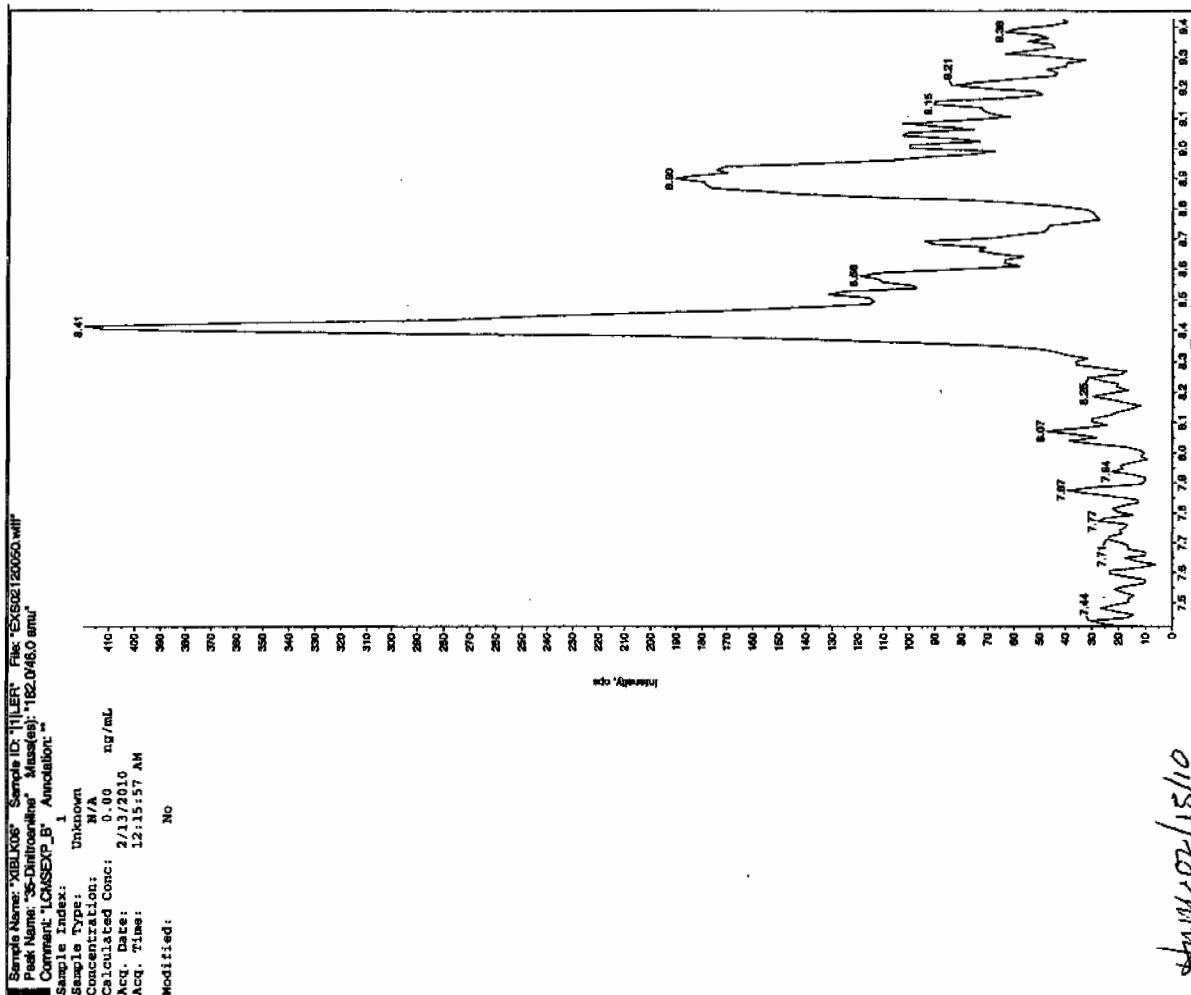
GEL Data File: EXS02120050.wiff

Instrument ID: LCMSMS

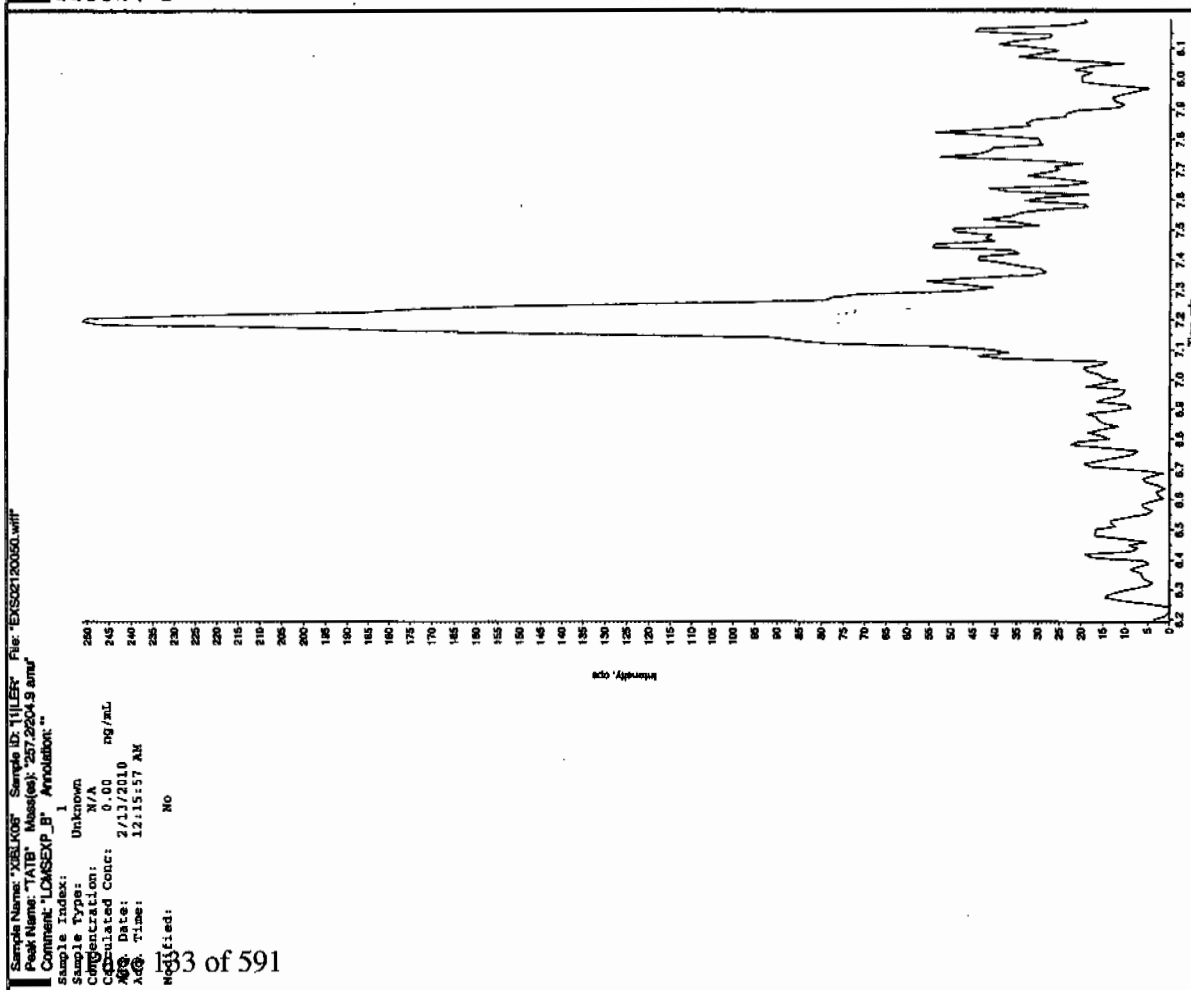
Column: Phenomenex Ultracarb 5u ODS(20)

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

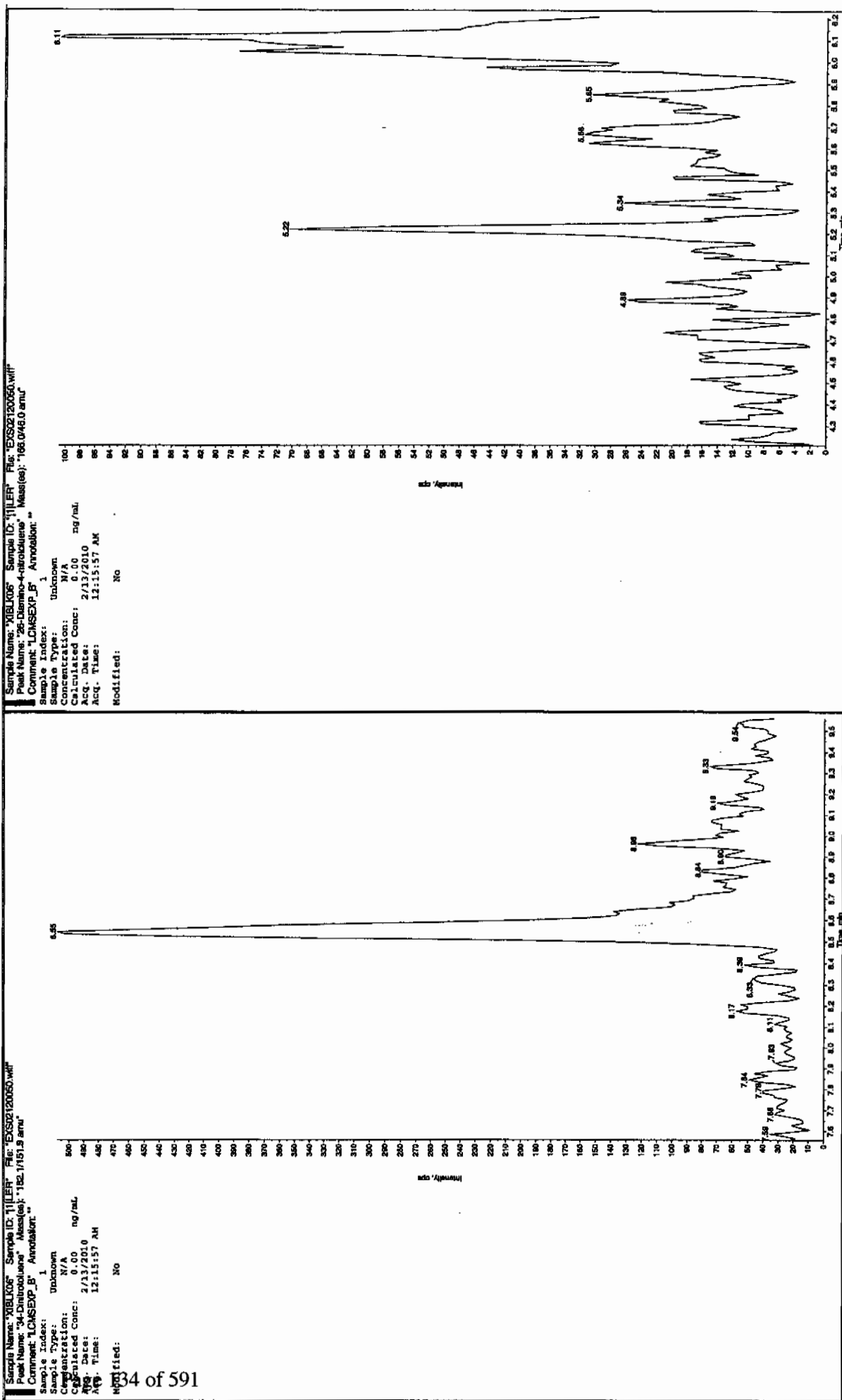
Star 2/15/10

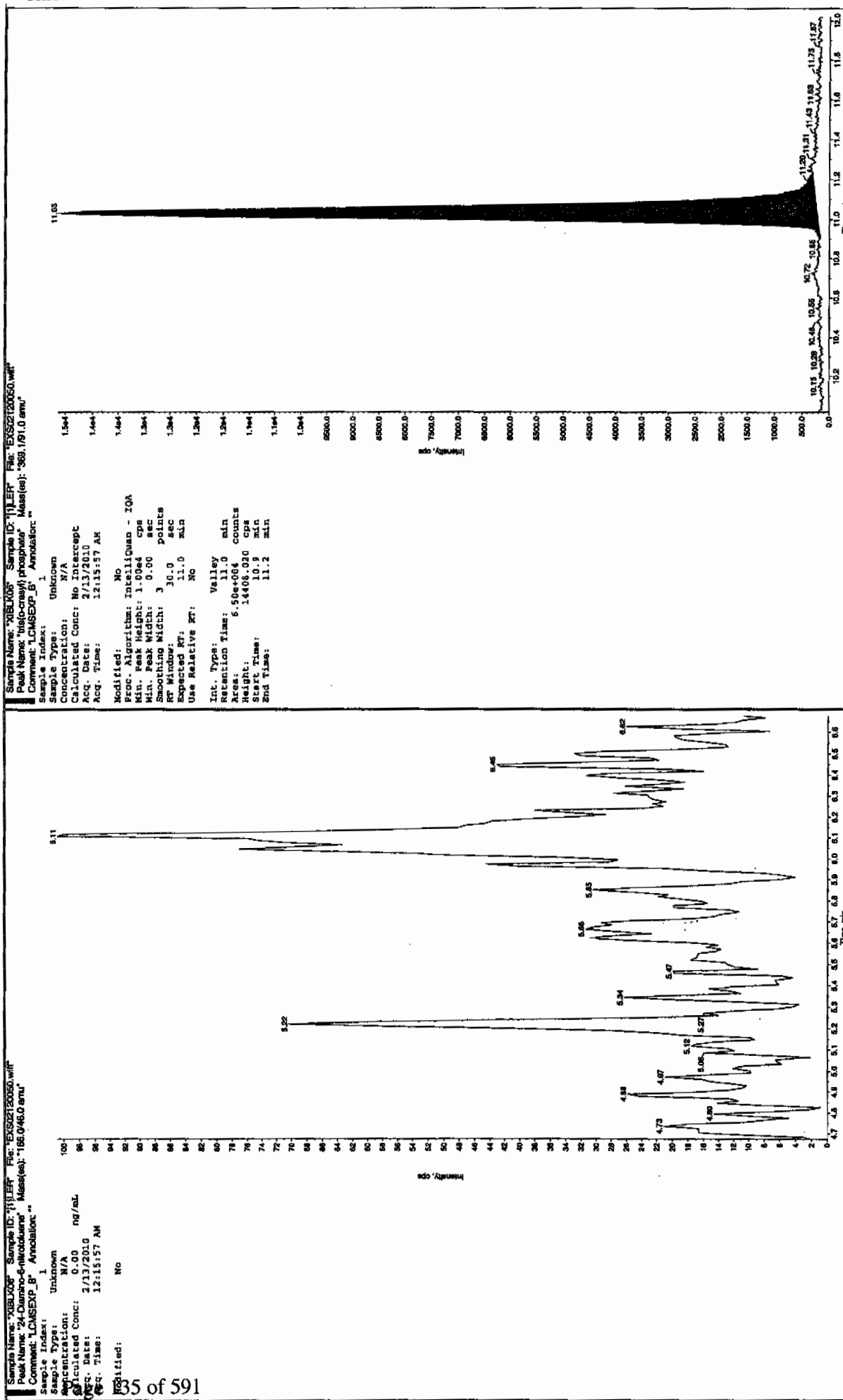


Star 2/15/10









4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1473

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 13-FEB-10 03:08

GEL Data File: EXS02120061.wiff

Instrument ID: LCMSMS

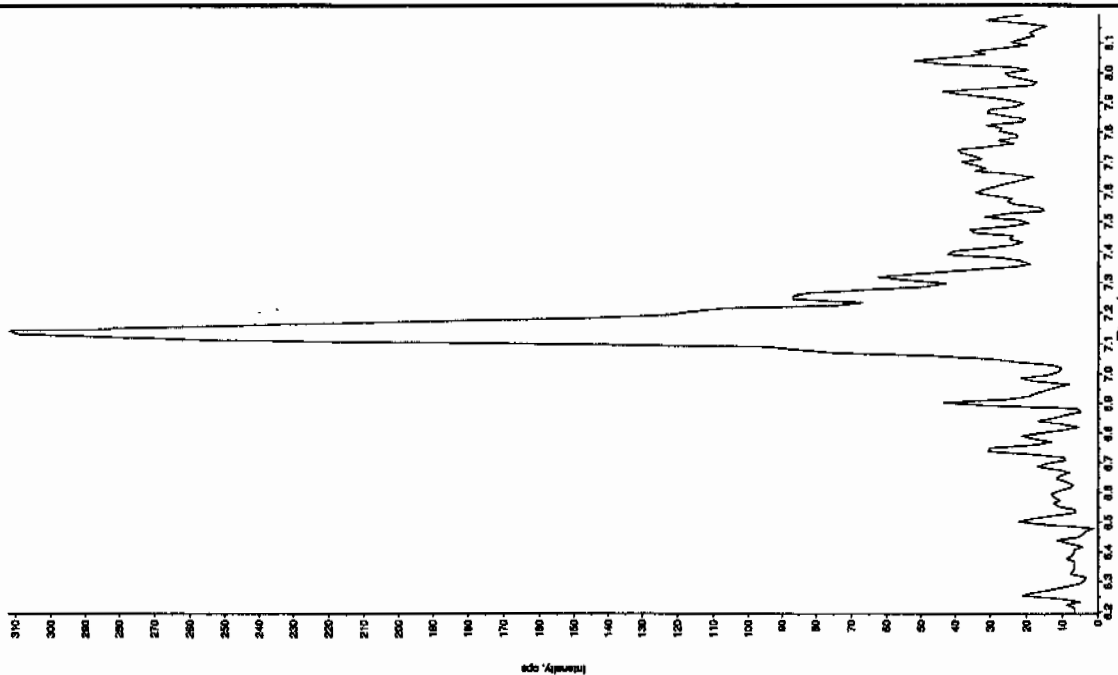
Column: Phenomenex Ultracarb 5u ODS(20)

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

See 2/15/10

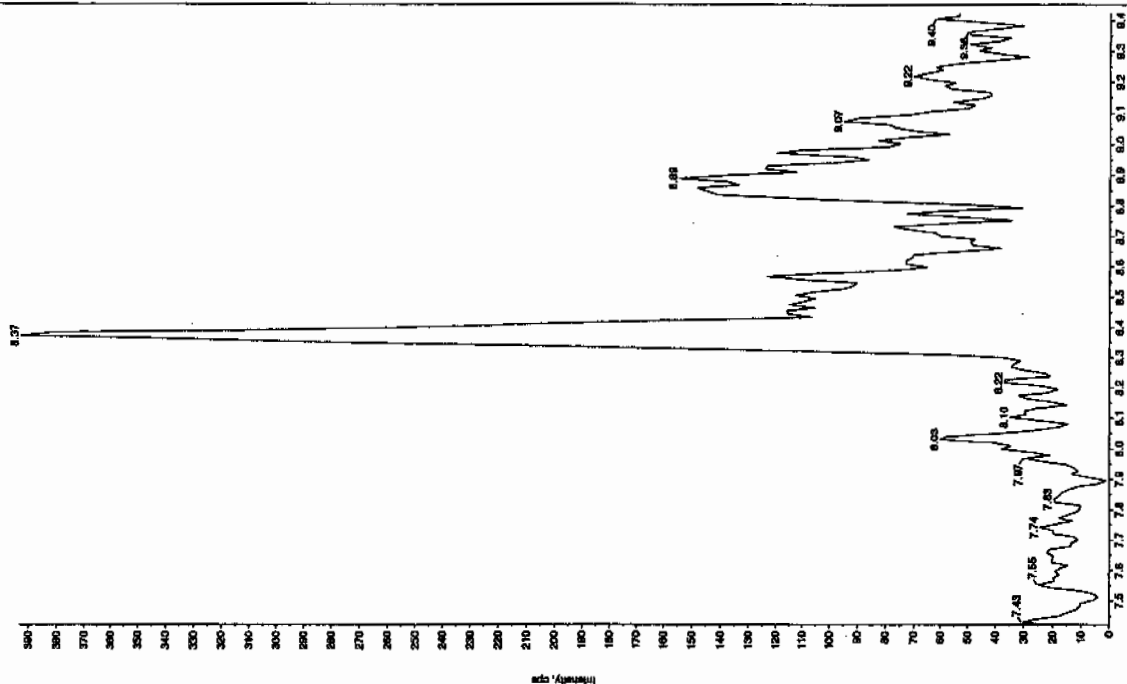
Sample Name: "XIBL007" Sample ID: "HILER" File: "EX32120061.wif"  
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
 Comment: "LOMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A ng/mL  
 Calculated Conc: 2/13/2010  
 Acq. Date: 3:08:38 AM  
 Acq. Time: No  
 Modified:



Sample Name: "XIBL007" Sample ID: "HILER" File: "EX32120061.wif"  
 Peak Name: "35-Dinitrobenzyl" Mass(es): "182.046.0 amu"  
 Comment: "LOMSEXP\_B" Annotation: ""

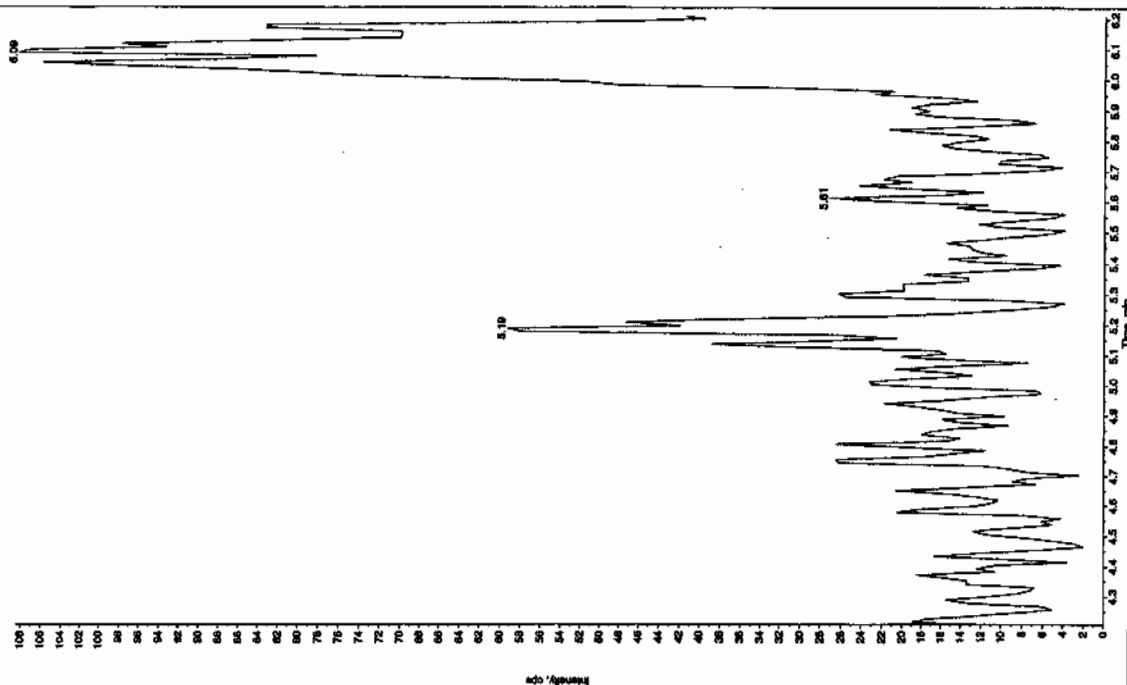
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A ng/mL  
 Calculated Conc: 2/13/2010  
 Acq. Date: 3:08:38 AM  
 Acq. Time: No  
 Modified:



same as 2/15/10

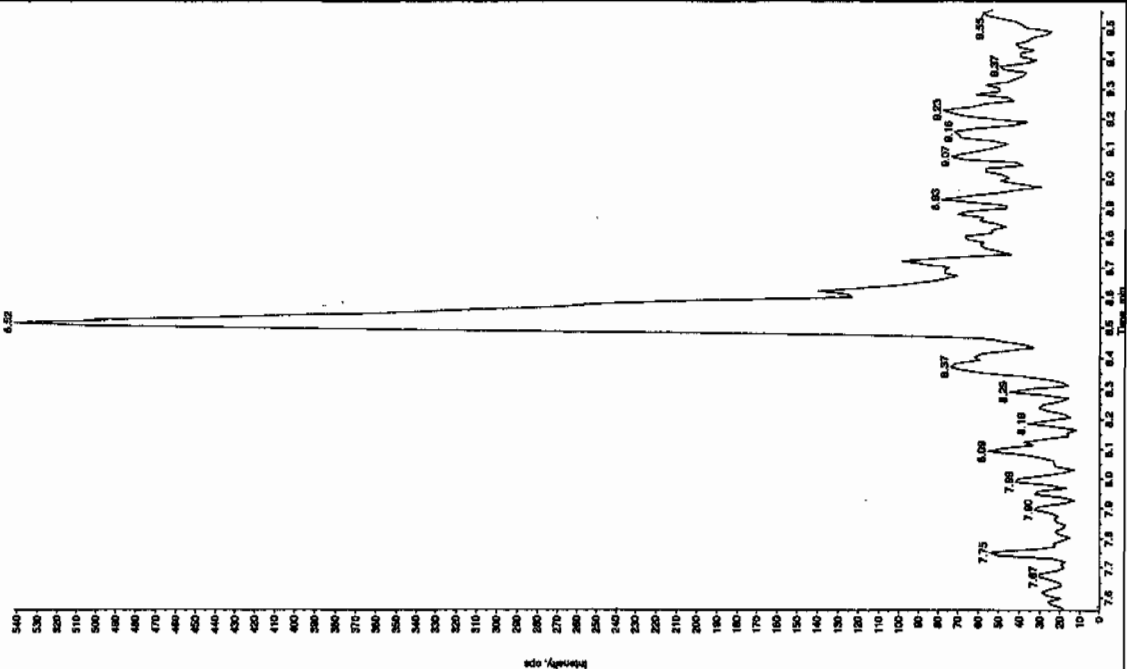
Sample Name: "081407" Sample ID: "111ER" File: "EX02120061.wif"  
 Peak Name: "25-Dimethyl-4-nitrobenzene" Mass(es): "182.0463.0 amu"  
 Comment: "LMSERP\_B" Annotation: ""

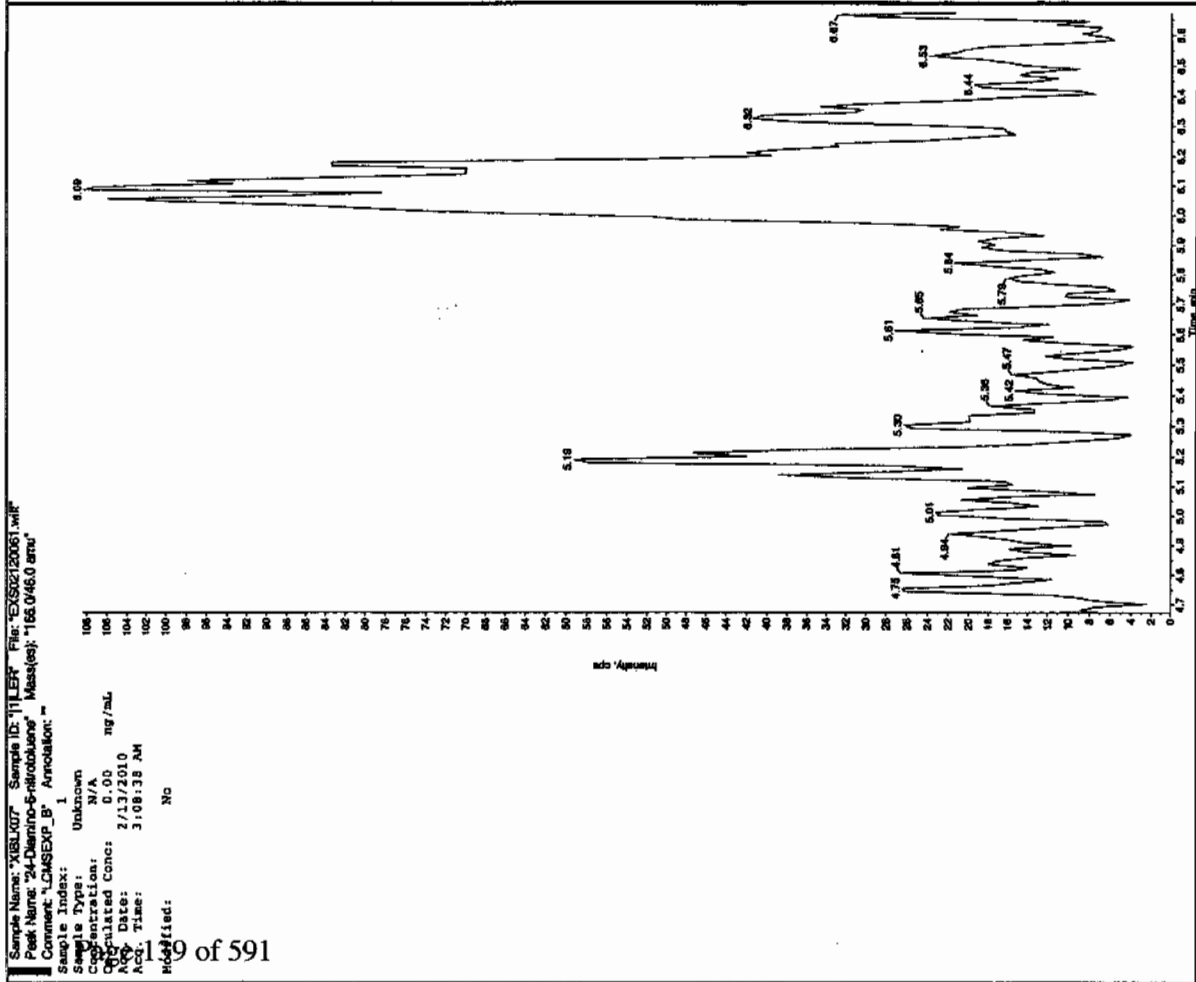
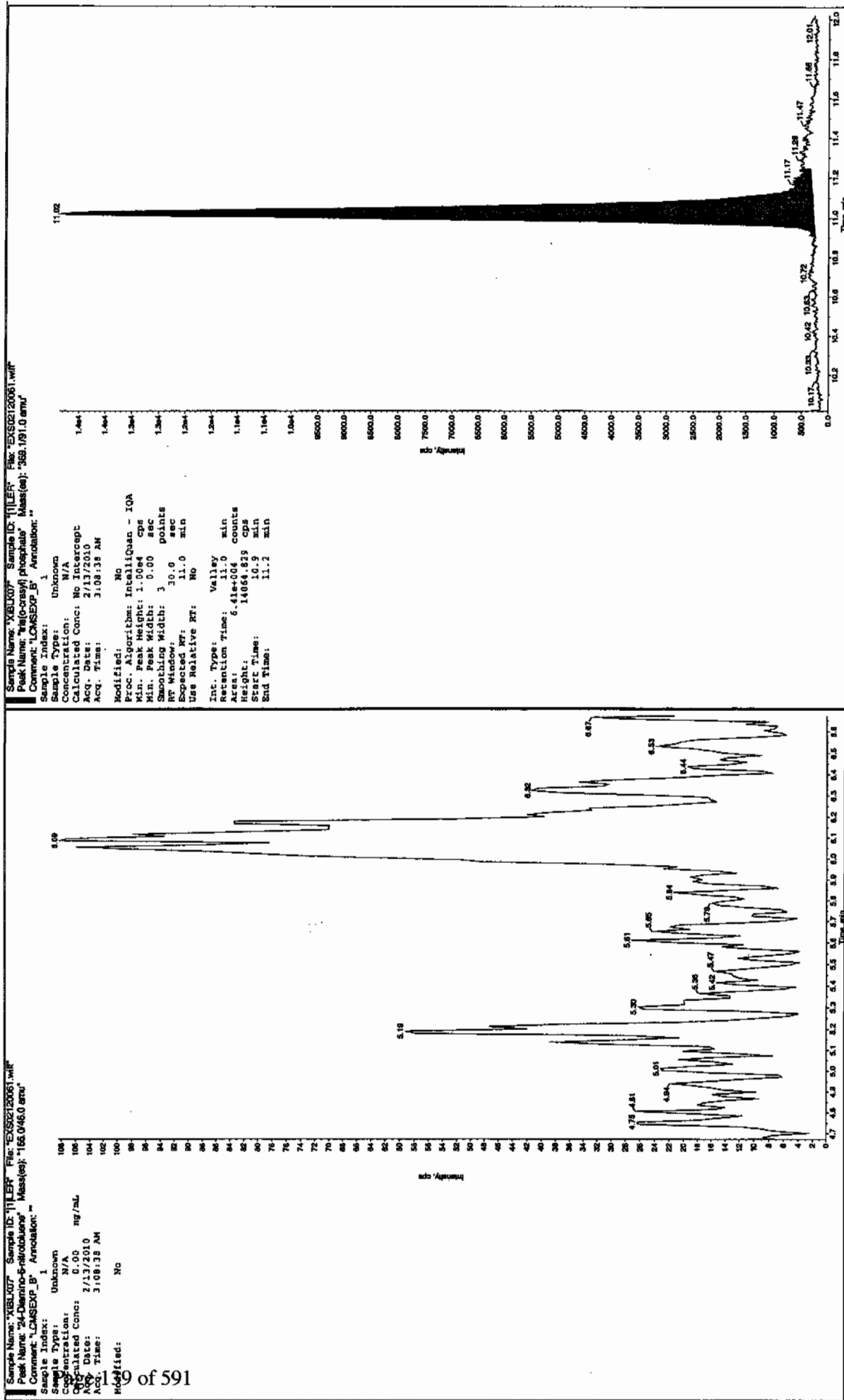
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 3:08:38 AM  
 Modified: No



Sample Name: "081407" Sample ID: "111ER" File: "EX02120061.wif"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1151.9 and"  
 Comment: "LMSERP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 3:08:38 AM  
 Modified: No





Nairb.ref

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

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

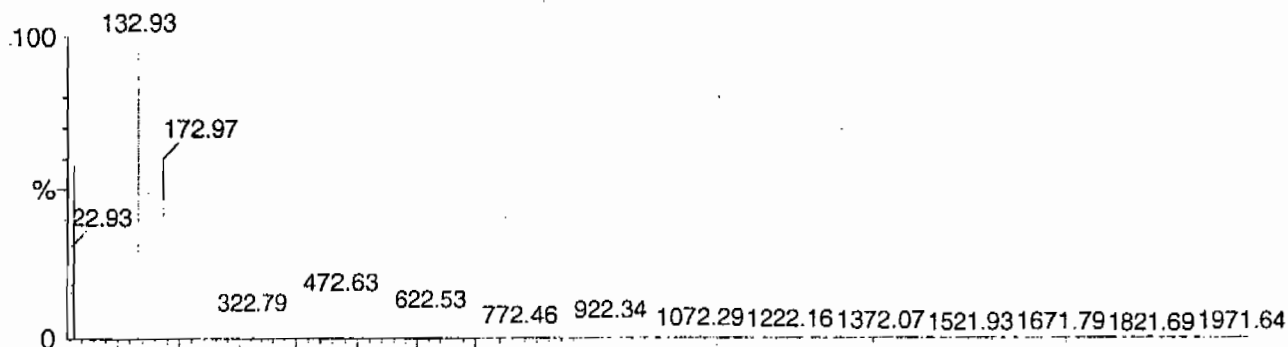
Calibration Report - MS1 Static

Page 1 of 1

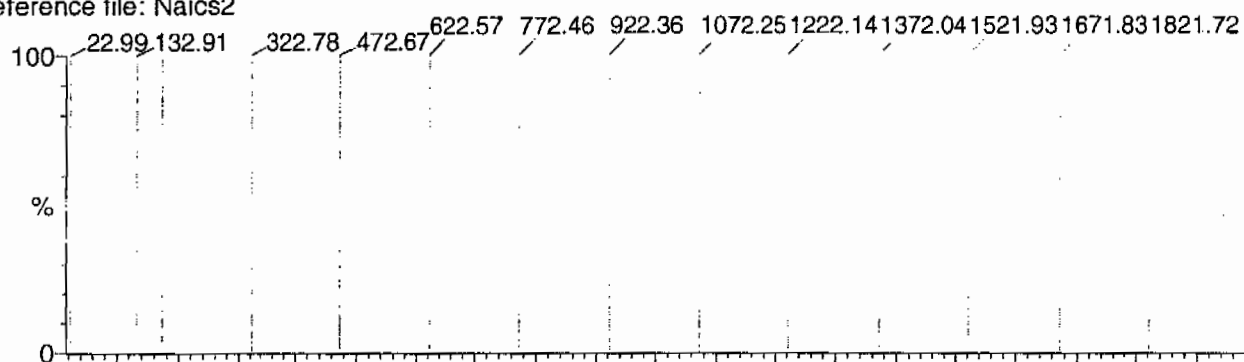
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

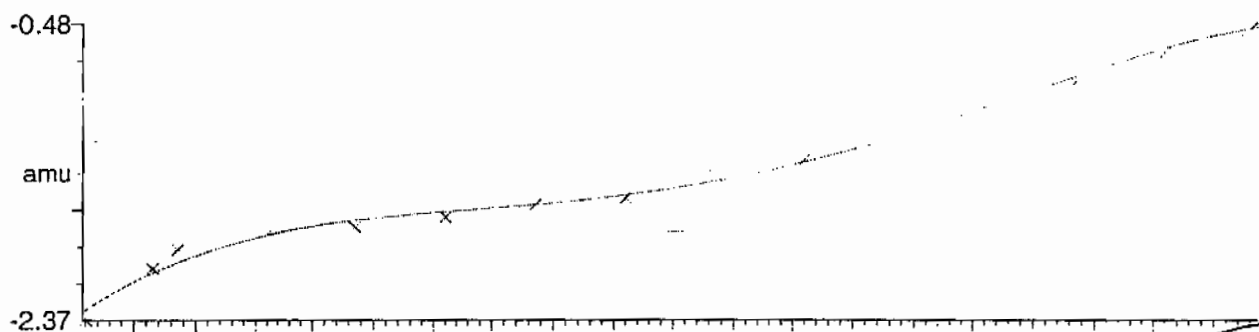
15 matches of 15 tested references



Reference file: Naics2

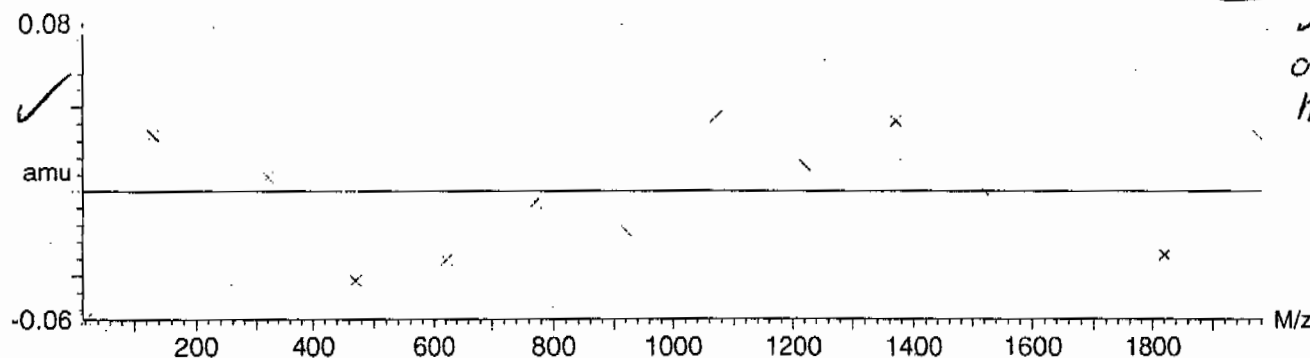


Mass difference (Raw - Ref mass)



Residuals

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





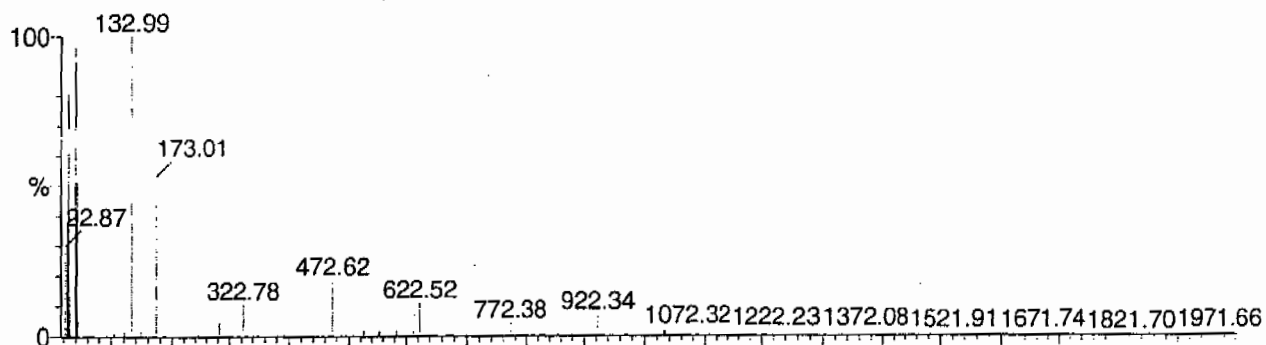
Calibration Report - MS1 Scanning

Page 1 of 1

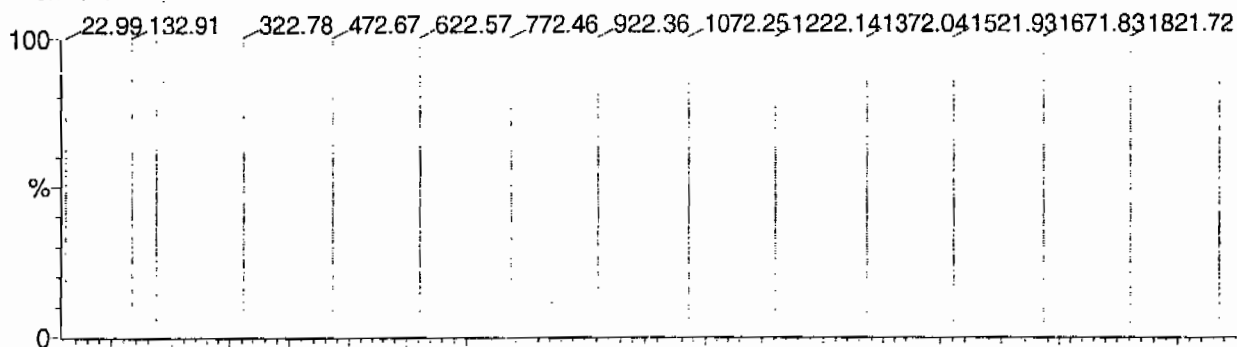
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

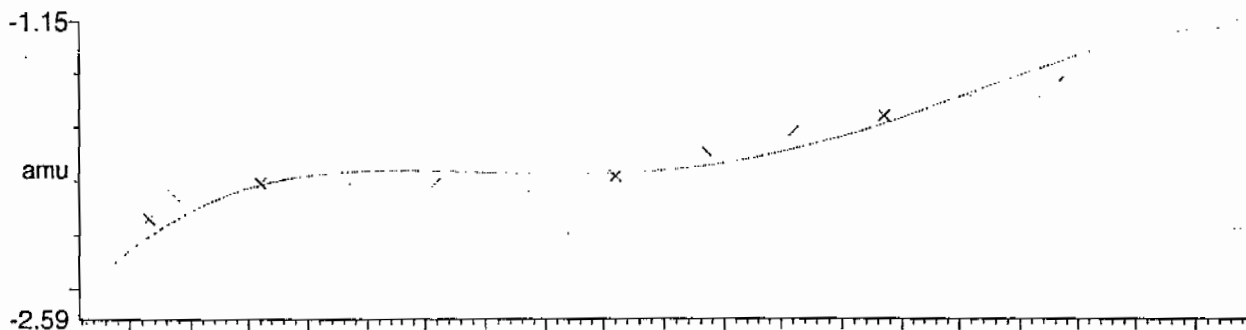
15 matches of 15 tested references



Reference file: Naics2

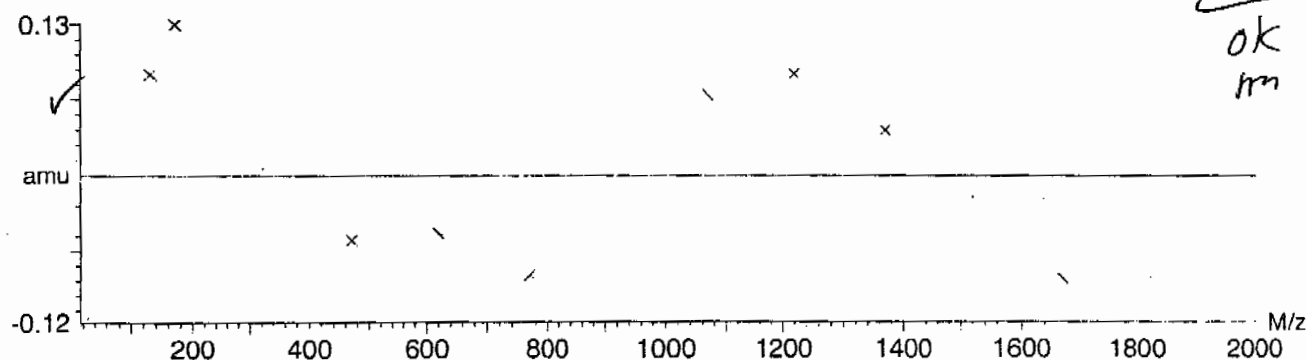


Mass difference (Raw - Ref mass)



Residuals

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



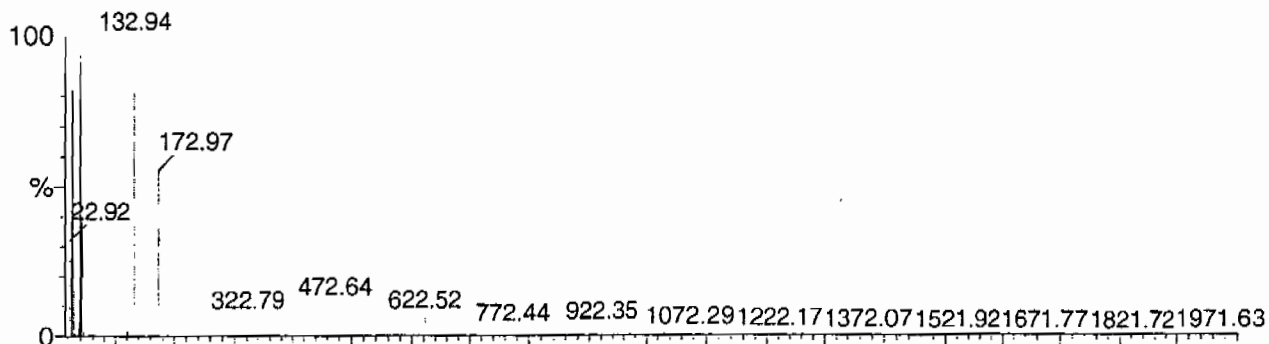
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

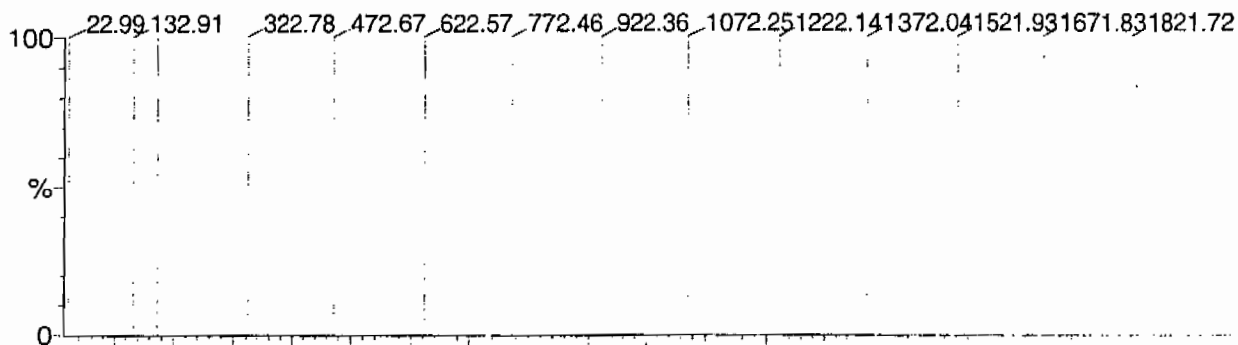
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

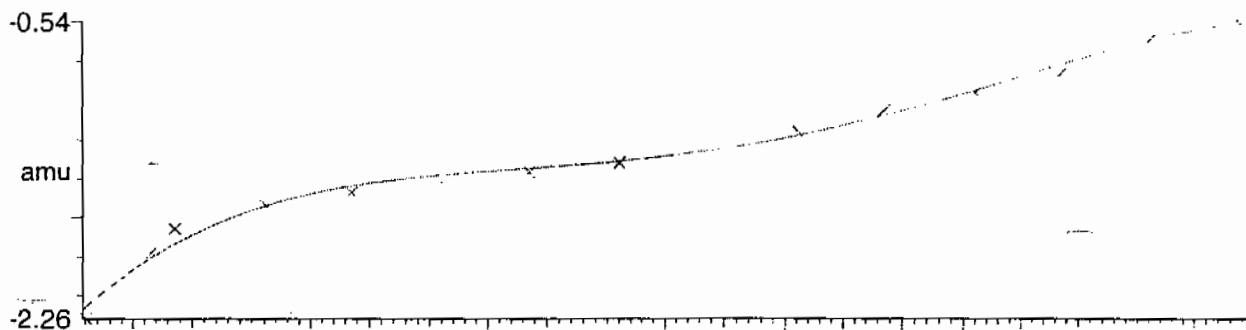
15 matches of 15 tested references



Reference file: Naics2

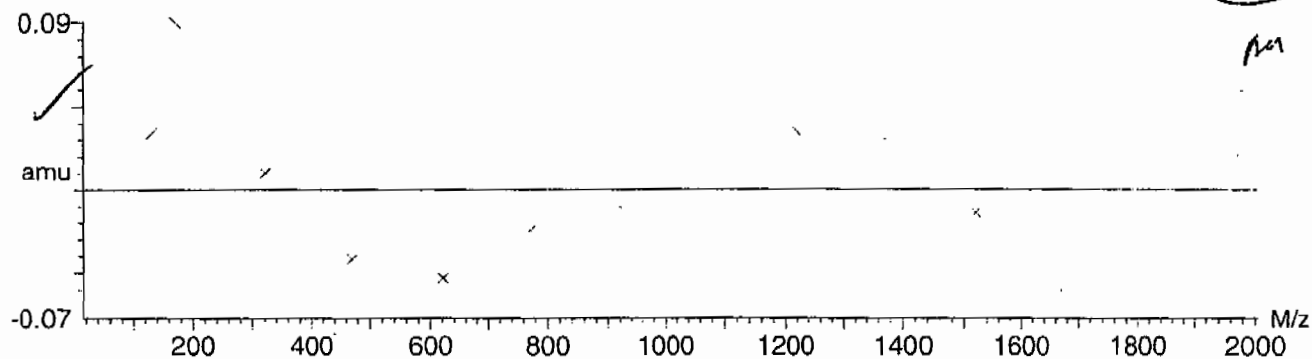


Mass difference (Raw - Ref mass)



Residuals

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



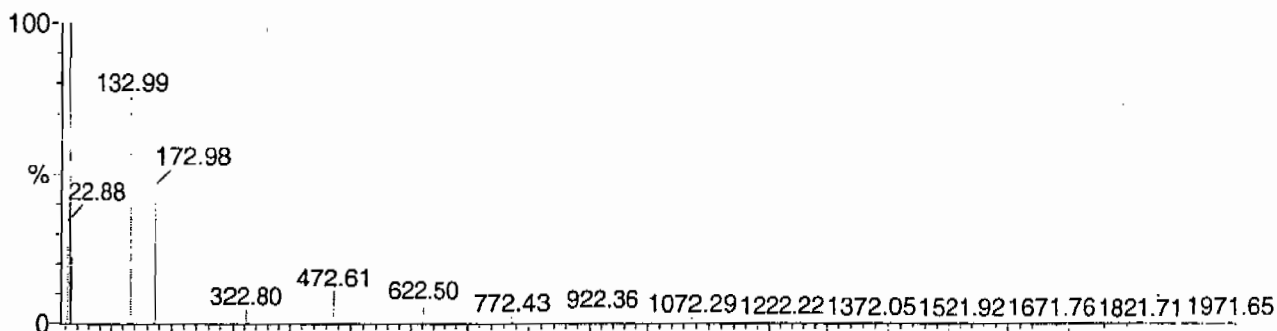
Calibration Report - MS2 Static

Page 1 of 1

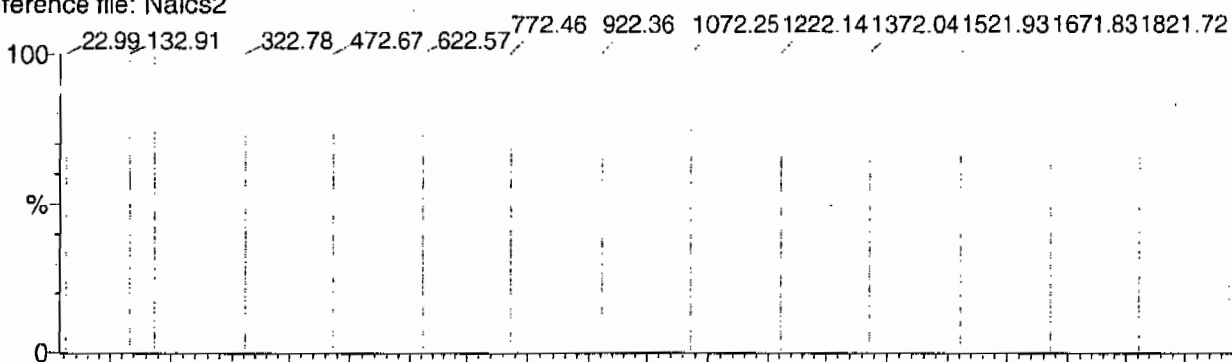
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

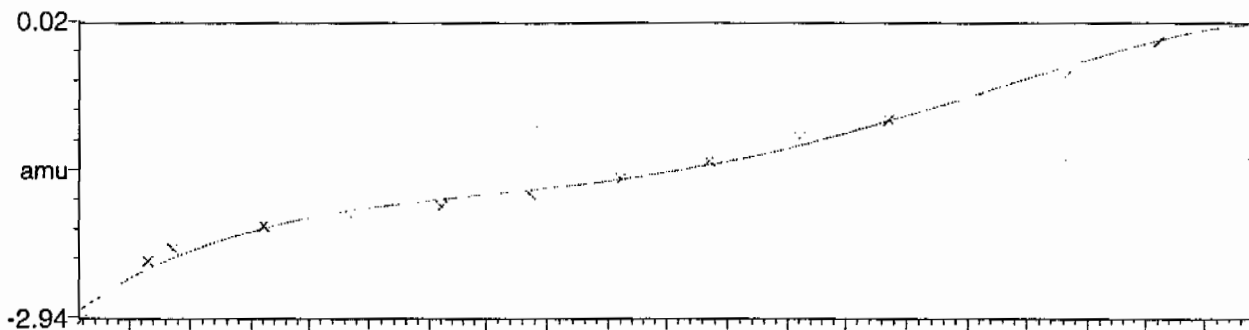
15 matches of 15 tested references



Reference file: Naics2

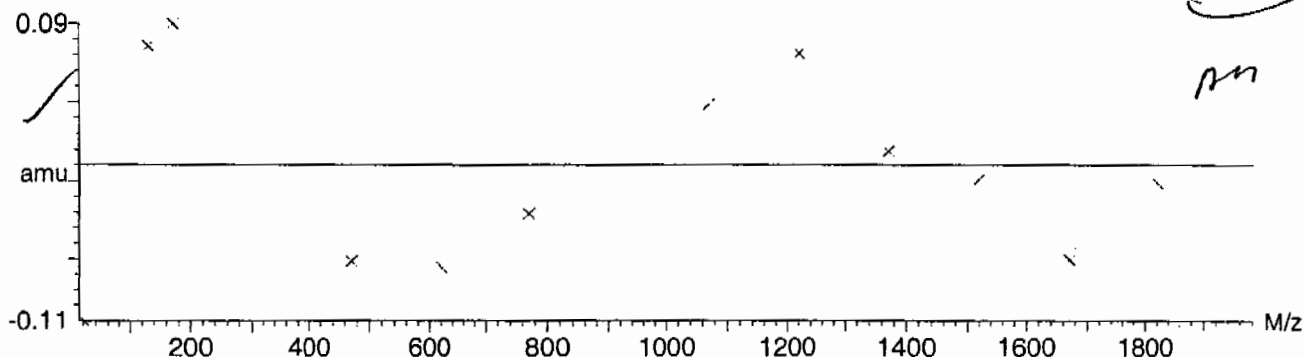


Mass difference (Raw - Ref mass)



Residuals

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



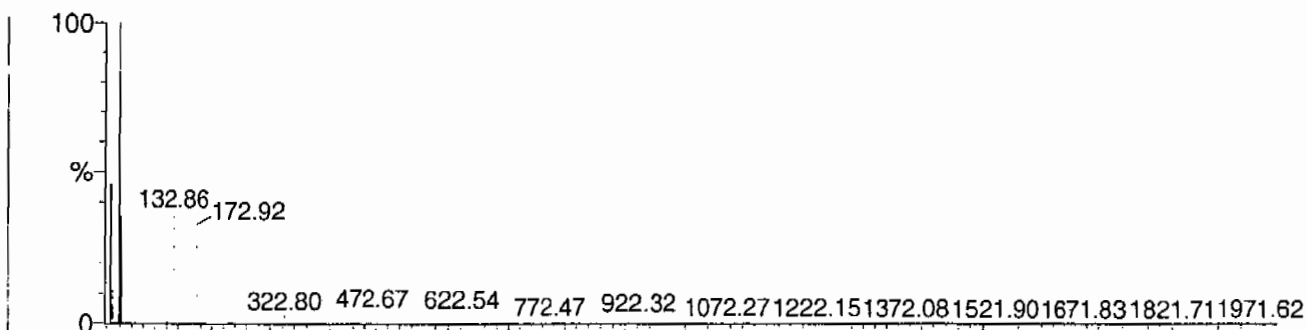
Calibration Report - MS2 Scanning

Page 1 of 1

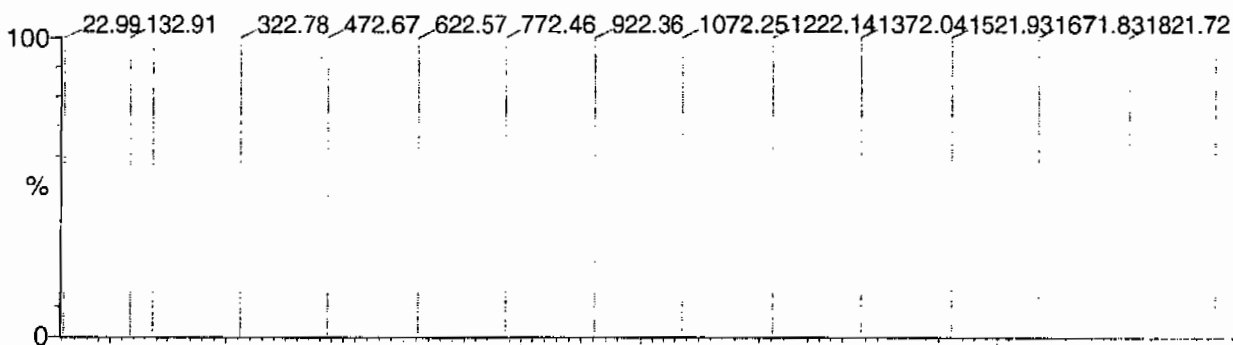
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

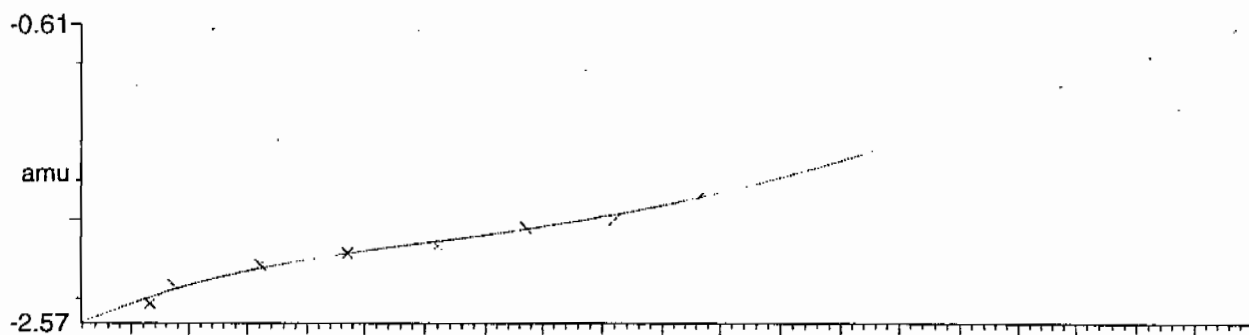
14 matches of 15 tested references



Reference file: Naics2

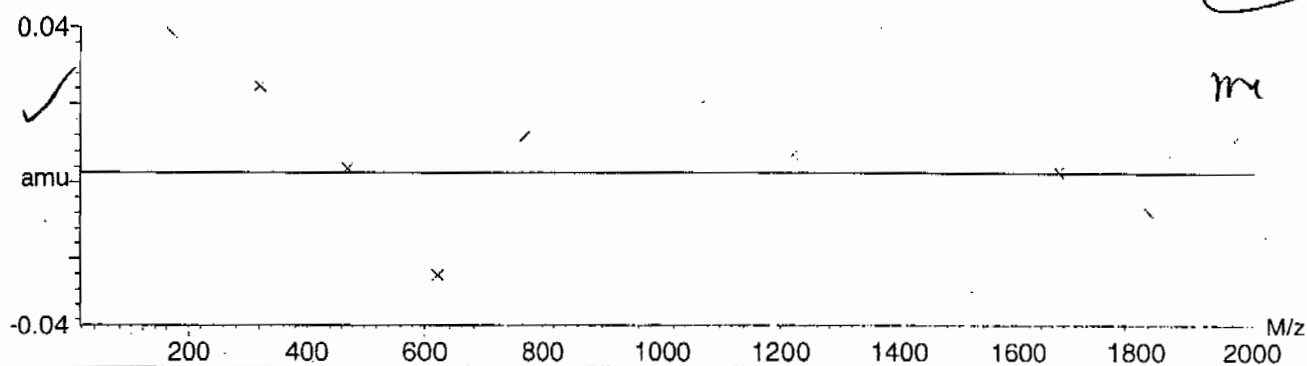


Mass difference (Raw - Ref mass)



Residuals

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



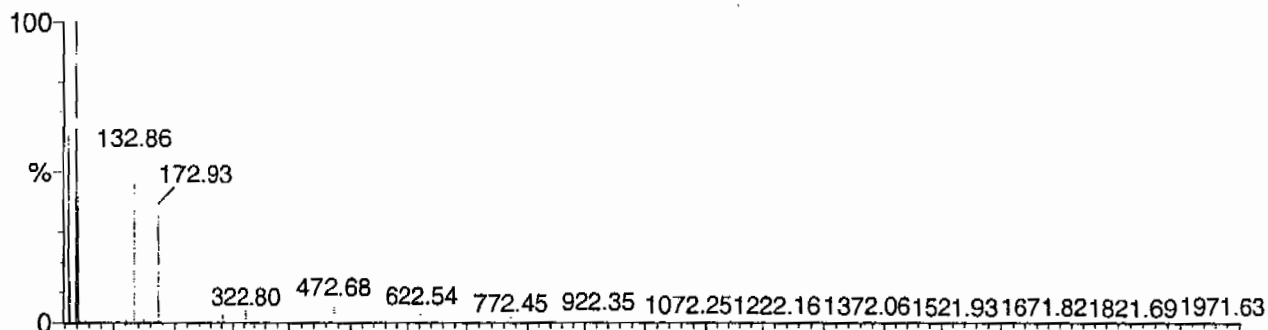
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

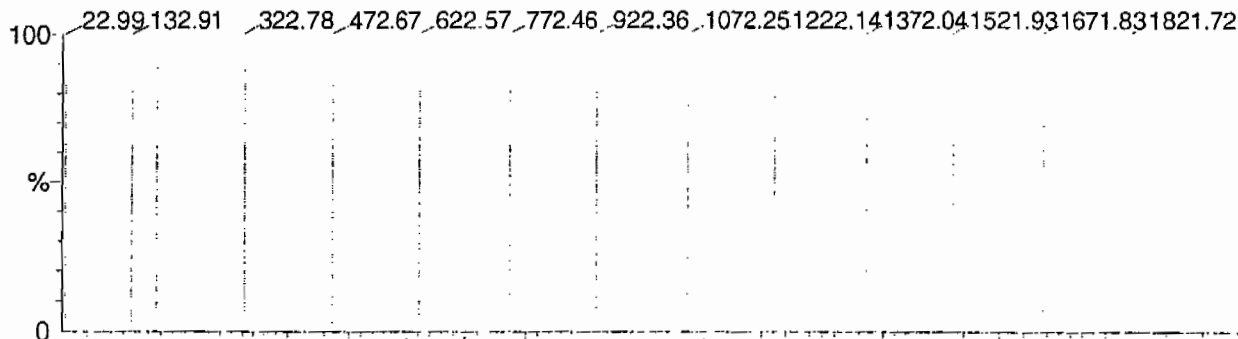
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

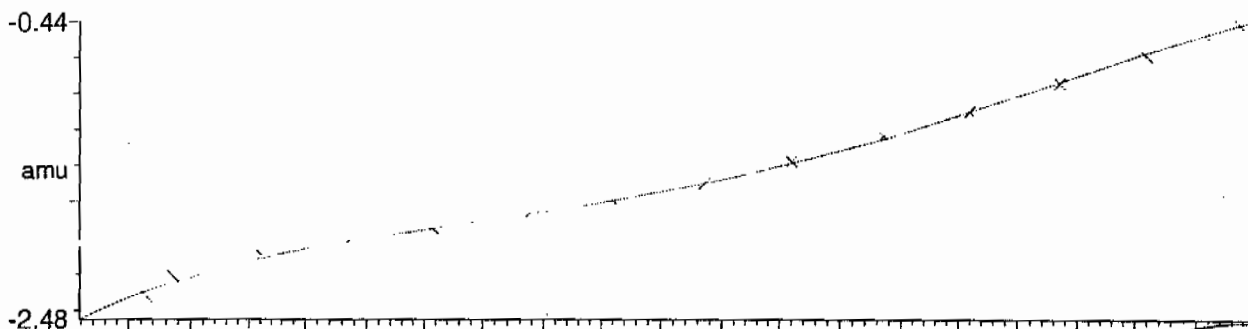
14 matches of 15 tested references



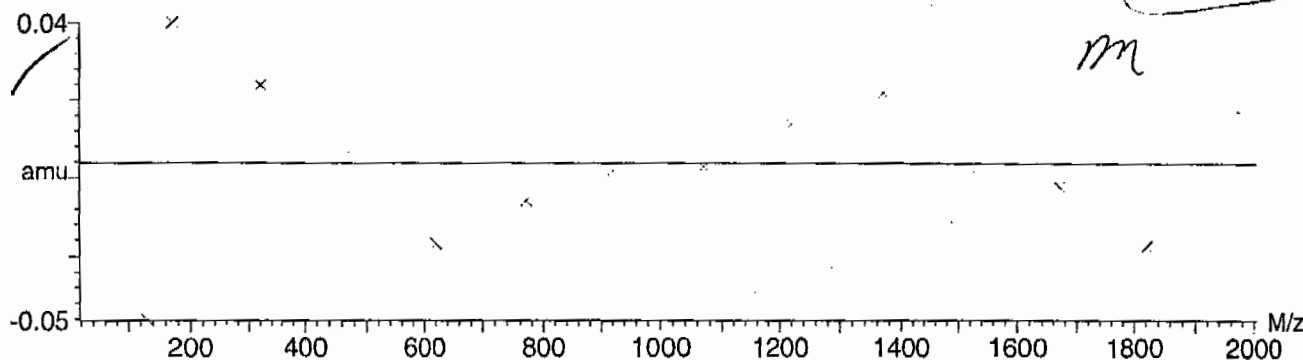
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals



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

---

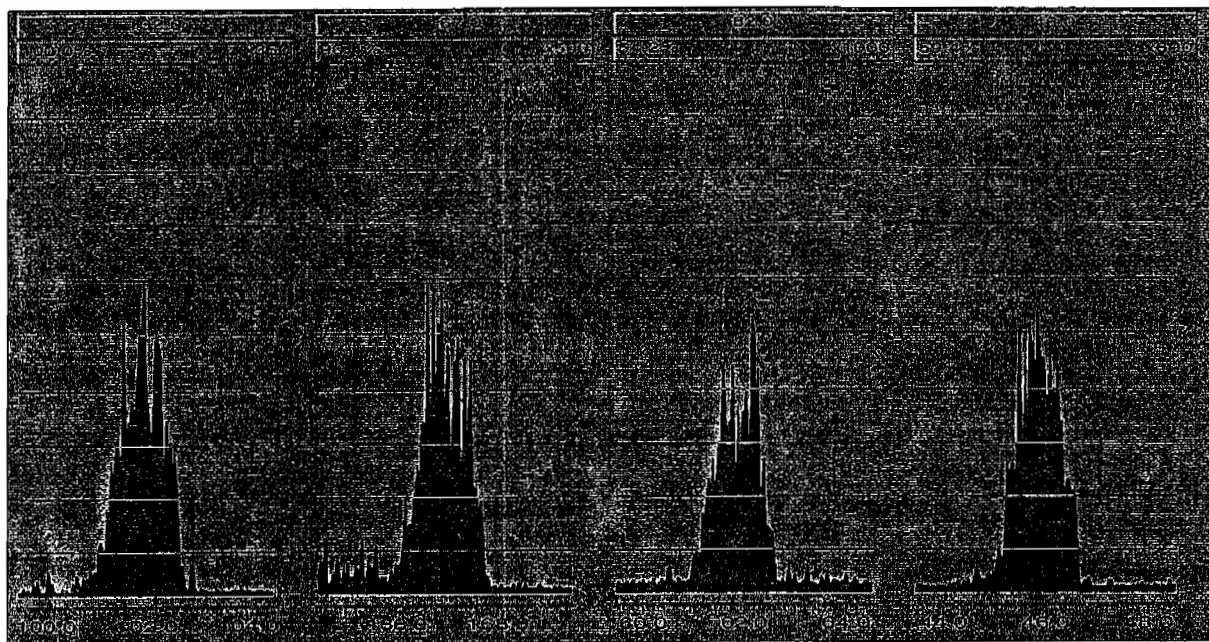
Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW\_EXP.PROVACQ\UDB\explosives04.ipr

Printed : Mon Feb 08 14:05:58 2010.

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# High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

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) #
			3214.577	12.205	18459.667	17.697
Upper Limit			4178.9501	12.705	23997.5671	18.197
Lower Limit			2250.2039	11.705	12921.7669	17.197
MB for batch 947080	11-feb-10 19:57	EXP0208158a	3195.32	12.07	17686.6	17.485
LCS for batch 947080	11-feb-10 20:27	EXP0208159a	3355.93	12.103	20751.2	17.485
RE15-10-7954	12-feb-10 02:21	EXP0208171a	2935.51	12.071	15398.5	17.465
RE15-10-7956	12-feb-10 02:50	EXP0208172a	2780.03	12.068	17628.5	17.465
RE15-10-7955	12-feb-10 03:20	EXP0208173a	2836.14	12.068	17081	17.466
RE15-10-7953	12-feb-10 03:50	EXP0208174a	2962.39	12.067	16734.3	17.465
RE15-10-7952	12-feb-10 04:19	EXP0208175a	2580.03	12.068	15516.4	17.466
RE15-10-8060	12-feb-10 04:49	EXP0208176a	3367.28	12.068	20937.7	17.462
RE15-10-8058	12-feb-10 05:18	EXP0208177a	3018.93	12.071	17477.3	17.465
RE15-10-8059	12-feb-10 05:48	EXP0208178a	2916.95	12.071	17148.5	17.464

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--10-7954

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803001

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208171a

Date Analyzed: 12-FEB-10 02:21

Units: ug/kg

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

\*Concentration =

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

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208171a

Date: 12-Feb-2010

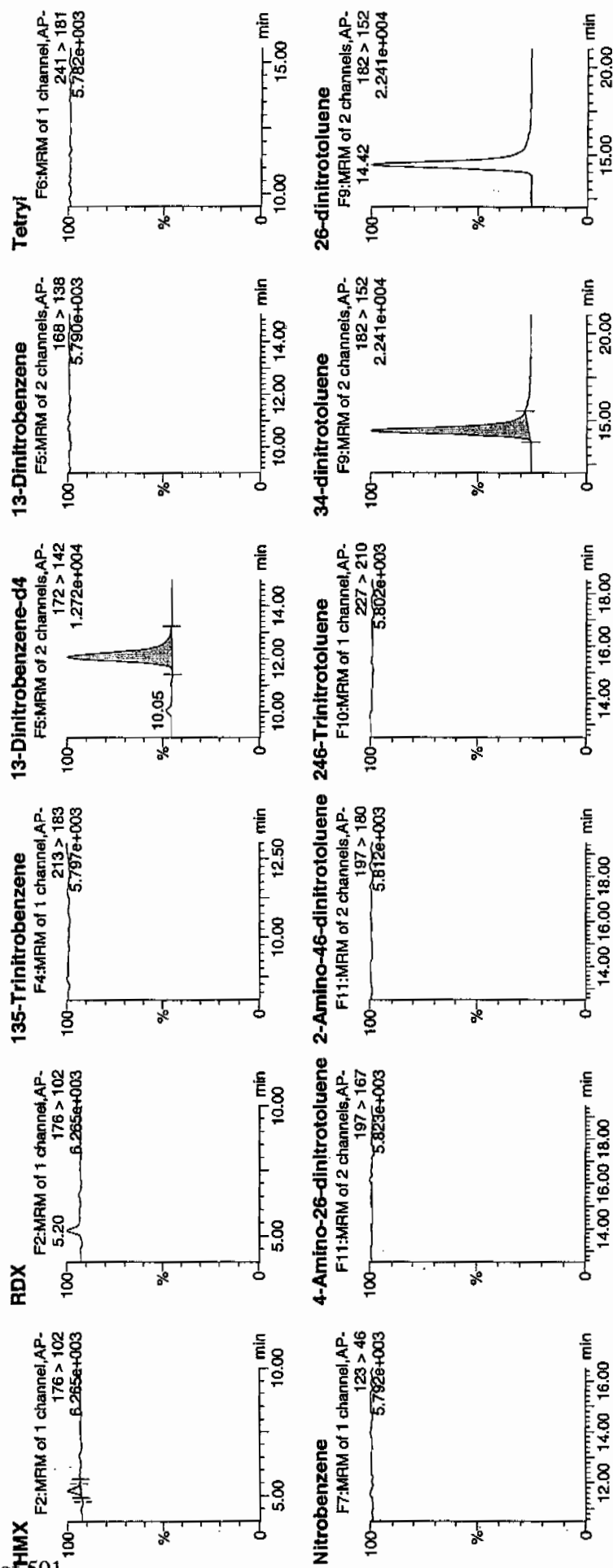
Time: 02:21:21

ID: 245803001

Vial: 4:2,E

2/12/10

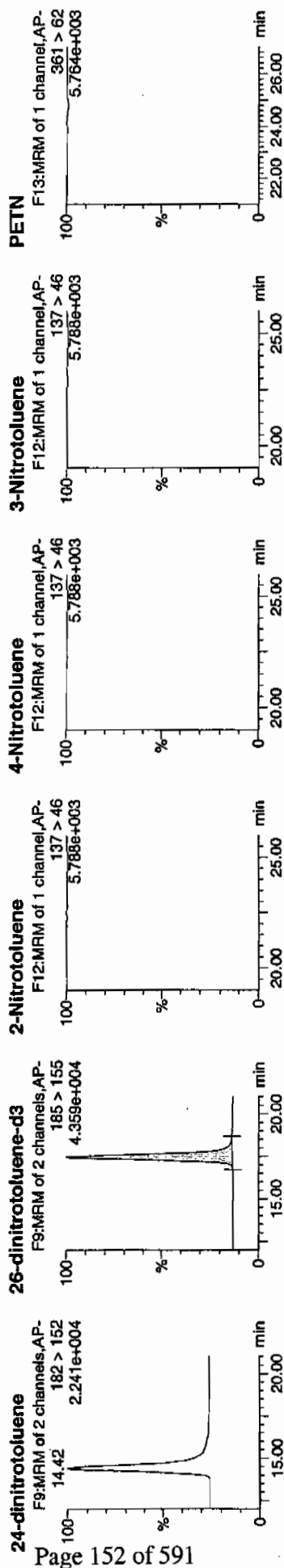
947084 | 21



4/12/10

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

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



ID	Name	Trace	RT	Area	IS Area	Response	Flags	Mod Date	Mod Time	Mod User	% Day	% SN
245803001	HMX	176 > 102	5.20	104.907	2935.507	17.868	MM	12-Feb-10	07:53:41	5.1453	13.5	
245803001	RDX	176 > 102		2935.507	2935.507							
245803001	135-Trinitrobenzene	213 > 183		2935.507	2935.507							
245803001	13-Dinitrobenzene-d4	172 > 142	12.07	2935.507	2935.507	2935.507	bb			456.5935	91.3	-8.7 618.1
245803001	13-Dinitrobenzene	168 > 138		2935.507	2935.507							
245803001	Tetryl	241 > 181		2935.507	2935.507							
245803001	Nitrobenzene	123 > 46		2935.507	2935.507							
245803001	4-Amino-26-dinitrotoluene	197 > 167		15398.510	15398.510							
245803001	2-Amino-46-dinitrotoluene	197 > 180		15398.510	15398.510							
245803001	246-Trinitrotoluene	227 > 210		15398.510	15398.510							
245803001	34-dinitrotoluene	182 > 152	14.42	8101.174	15398.510	263.051	bb			292.2810	116.9	16.9 557.9
245803001	26-dinitrotoluene	182 > 152		15398.510	15398.510							
245803001	24-dinitrotoluene	182 > 152		15398.510	15398.510							
245803001	26-dinitrotoluene-d3	185 > 155	17.46	15398.510	15398.510	15398.510	bb			417.0849	83.4	-16.6 1545.1
245803001	2-Nitrotoluene	137 > 46		15398.510	15398.510							
245803001	4-Nitrotoluene	137 > 46		15398.510	15398.510							
245803001	3-Nitrotoluene	137 > 46		15398.510	15398.510							
245803001	PETN	361 > 62		15398.510	15398.510							

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7954

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803001

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120052.wiff

Date Analyzed: 13-FEB-10 00:47

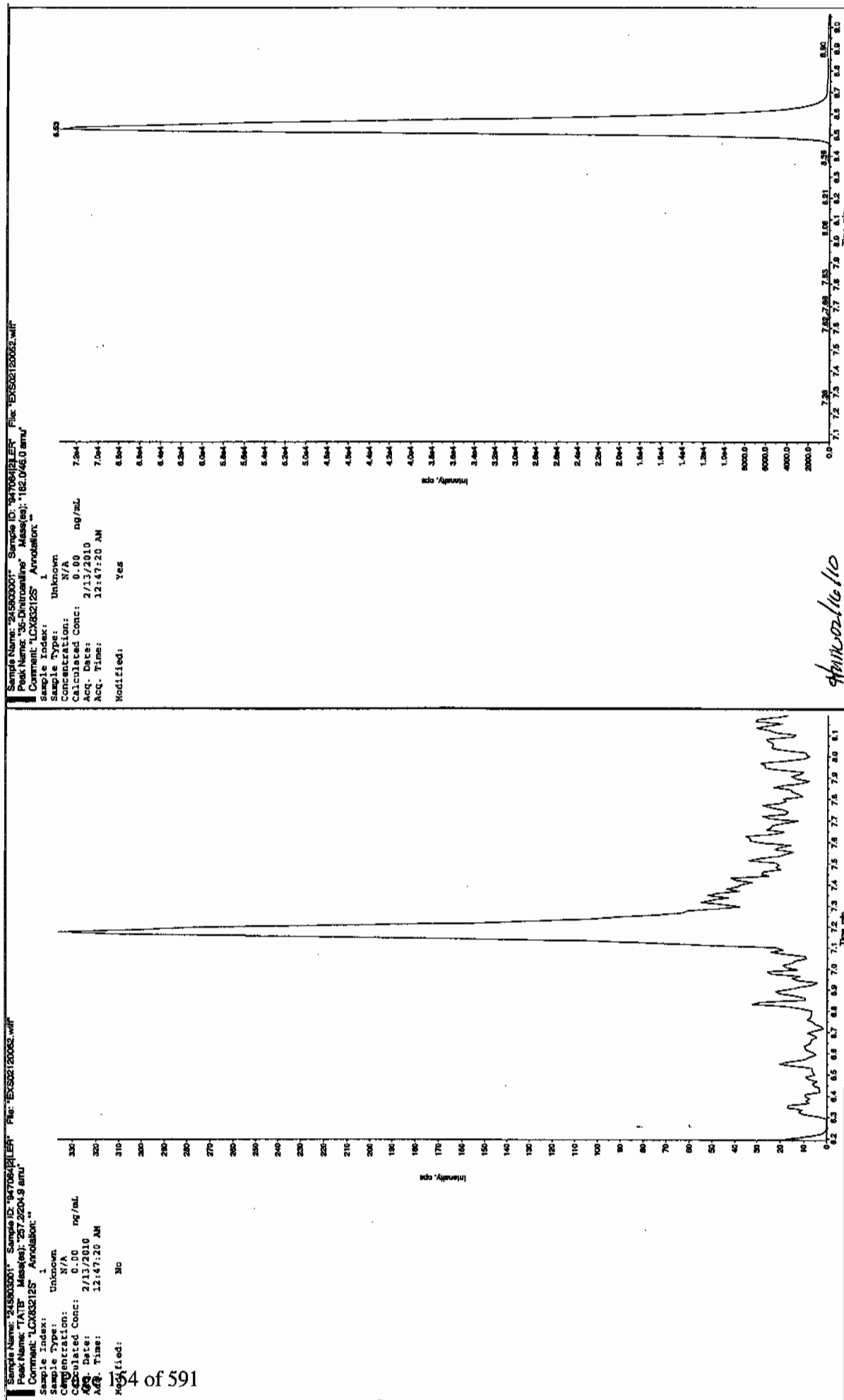
Units: ug/kg

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

\*Concentration =

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

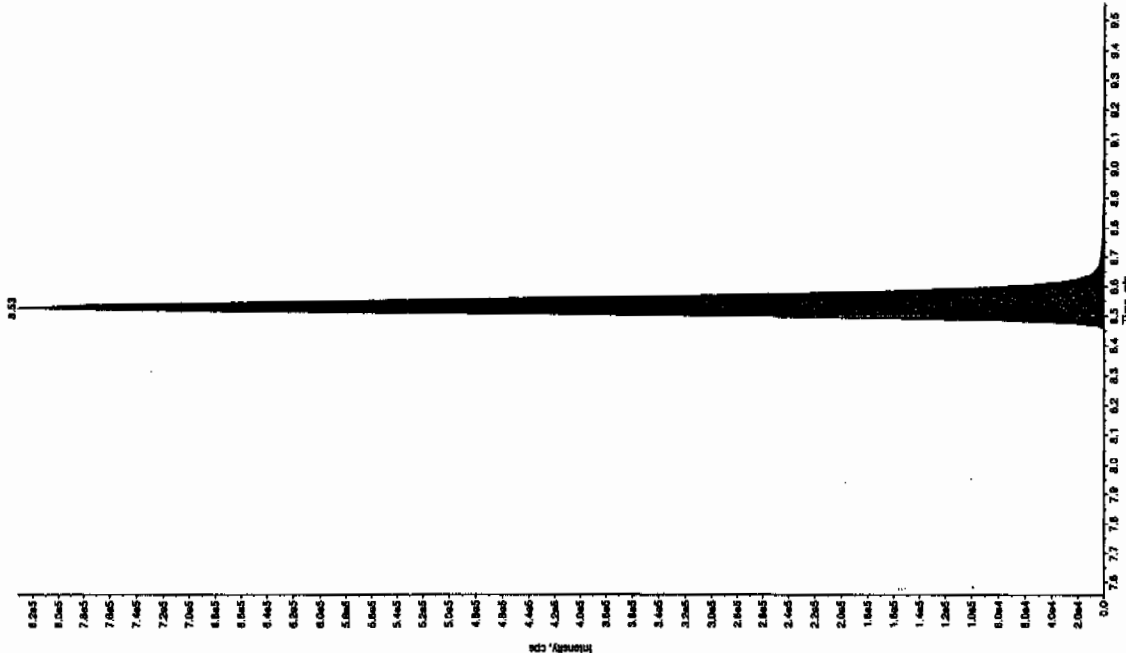
Run 2/15/10



Ammonia 10

Sample Name: "24580001" Sample ID: "94709421ER" File: "EXS02120052.wif"  
 Peak Name: "26-Diamino-4-phthalone" Mass(es): "166.046.0 amu"  
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 12:47:20 AM  
 Modified: No

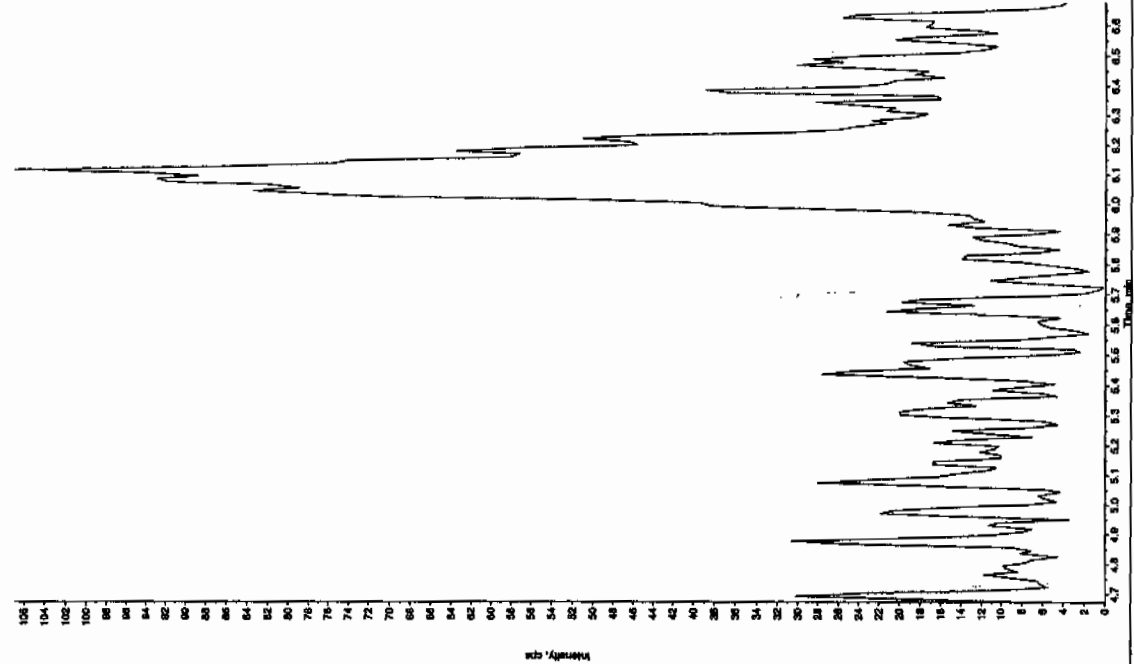


Sample Name: "24580001" Sample ID: "94709421ER" File: "EXS02120052.wif"  
 Peak Name: "34-Carboxyphenol" Mass(es): "182.1761.9 amu"  
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 293.  
 Acq. Date: 2/13/2010  
 Acq. Time: 12:47:20 AM  
 Modified: No  
 Peak: Algorithm: IntelliQuan - IOA  
 Max. Peak Height: 1660.00 cps  
 Max. Peak Width: 0.00 sec  
 Swept Width: 3.00 points  
 Window: 15.0 sec  
 Retention RT: 8.56 min  
 Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.53 min  
 Area: 3.29e+006 counts  
 Height: 81807.190 cps  
 Start Time: 8.42 min  
 End Time: 8.54 min

Sample Name: "24580001" Sample ID: "9470421.ER" File: "EXS2120052.wif"  
 Peak Name: "24-Dichloro-5-bromochlor" Mass(es): "165.046.0 amu"  
 Comment: "LCX83212S" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 12:47:20 AM  
 Modified: No



Sample Name: "24580001" Sample ID: "9470421.ER" File: "EXS2120052.wif"  
 Peak Name: "24-Dichloro-5-bromochlor" Mass(es): "165.046.0 amu"  
 Comment: "LCX83212S" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 12:47:20 AM  
 Modified: No

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7956

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803002

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208172a

Date Analyzed: 12-FEB-10 02:50

Units: ug/kg

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

\*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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Printed: Fri Feb 12 08:13:51 2010, Page 73 of 93

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208172a

Date: 12-Feb-2010

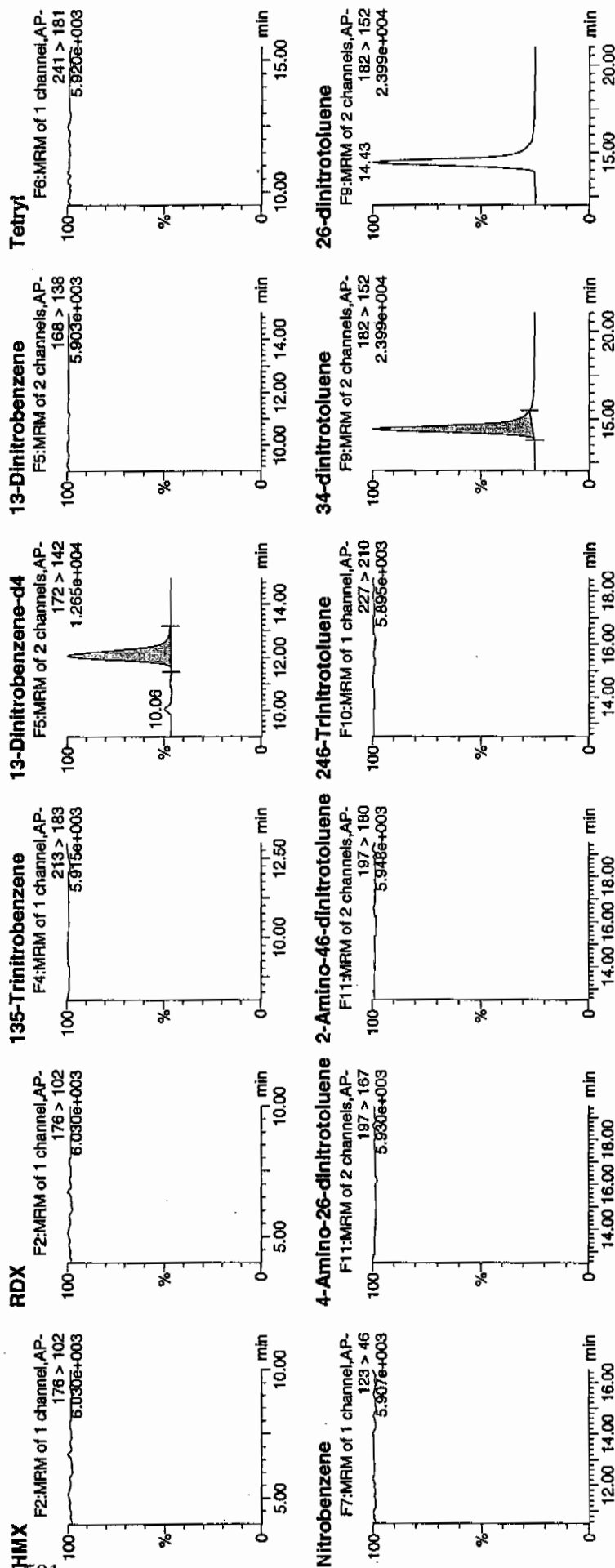
Time: 02:50:56

ID: 245803002

Vial: 4,2,F

2/12/10

947084 / 21

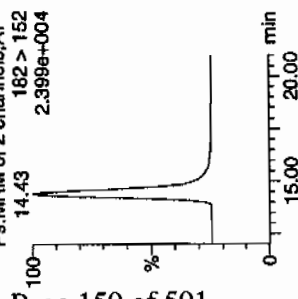


2/12/10

Dataset: C:\MASSLYN\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

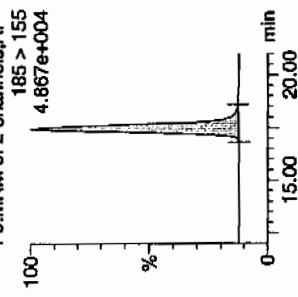
## 24-dinitrotoluene

F9:MRM of 2 channels, AP-  
182 > 152  
2.399e+004  
14.43  
100



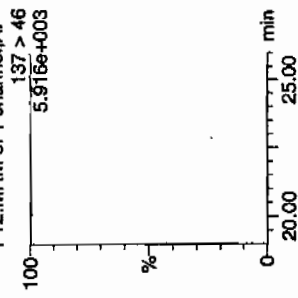
## 26-dinitrotoluene-d3

F9:MRF of 2 channels, AP-185 > 155  
| 4.867e+004  
100



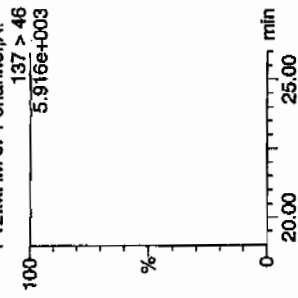
## 2-Nitrotoluene

F12:MRM of 1 channel,AP-  
137 > 46  
100  
5.916e+003



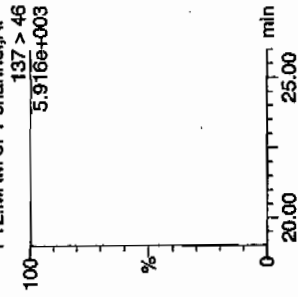
## 4-Nitrotoluene

F12:MRM of 1 channel,AP-  
137 > 46  
100  
5.916e+003



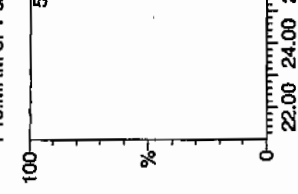
### 3-Nitrotoluene

F12:MRM of 1 channel, AP-  
137 > 46  
100 5.916e+003



**PETN**

F13:MRM of 1 c

[illegible]

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7956

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803002

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120053.wiff

Date Analyzed: 13-FEB-10 01:03

Units: ug/kg

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

\*Concentration =

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

See 2/15/10

Sample Name: "24503002" Sample ID: "94708421ER" File: "EX502120053.wif"

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

Comment: "LCX032125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 2/13/2010

Acq. Date: 1:03:03 AM

Acq. Time: 1:03:03 AM

Modified: No

Sample Name: "24503002" Sample ID: "94708421ER" File: "EX502120053.wif"

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

Comment: "LCX032125" Annotation: "

Sample Index: 1

Sample Type: Unknown

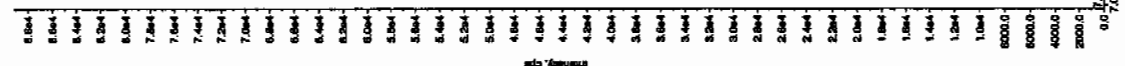
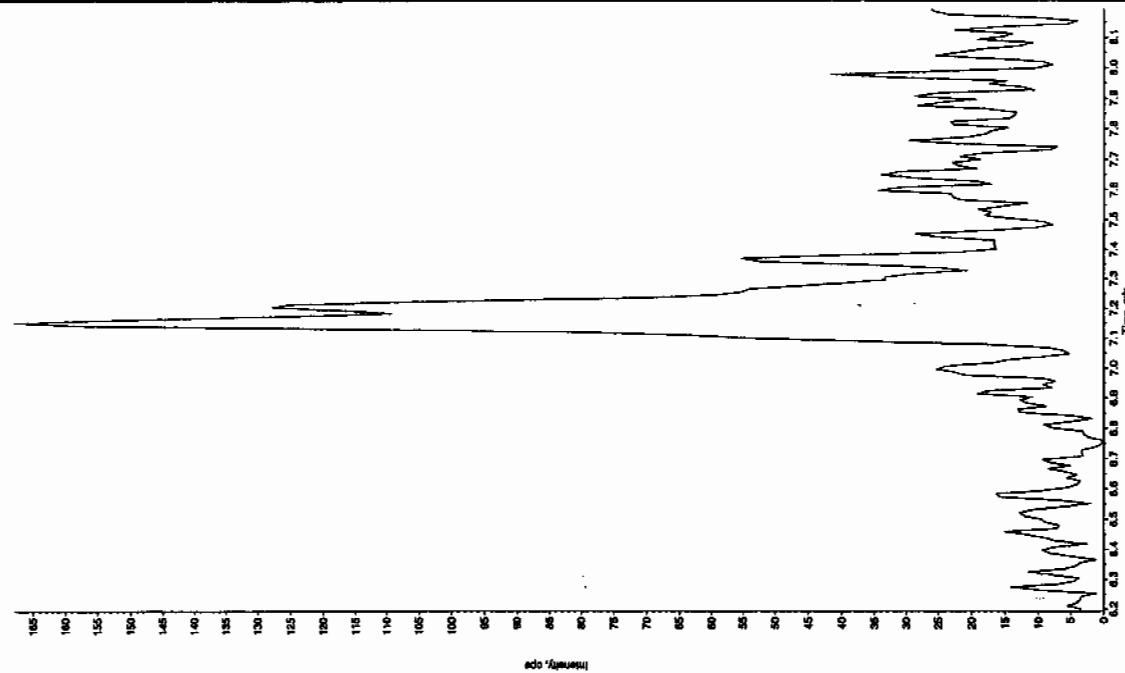
Concentration: 0.00 ng/mL

Calculated Conc: 2/13/2010

Acq. Date: 1:03:03 AM

Acq. Time: 1:03:03 AM

Modified: Yes



Ammonia 10/10

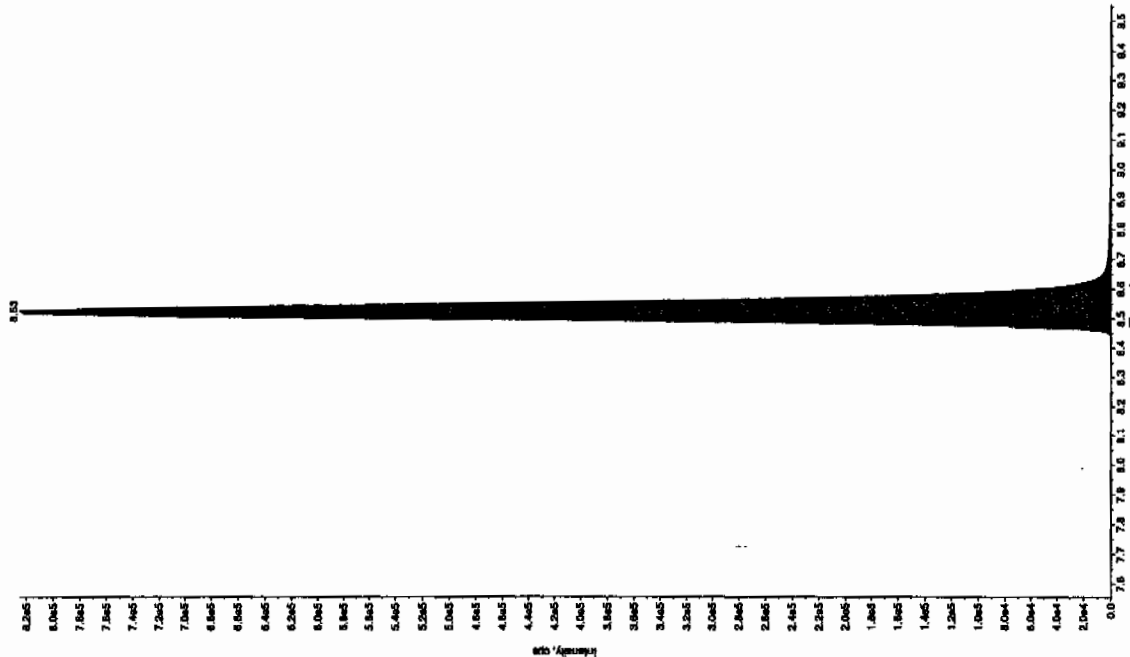
Sample Name: 245603002 Sample ID: 94705421 LRF File: EXS02120053.wif  
 Peak Name: 25-Diamino-4-Nitrotoluene Mass(es): 166.046.0 amu  
 Comment: "LCX032125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:03:03 AM  
 Modified: No



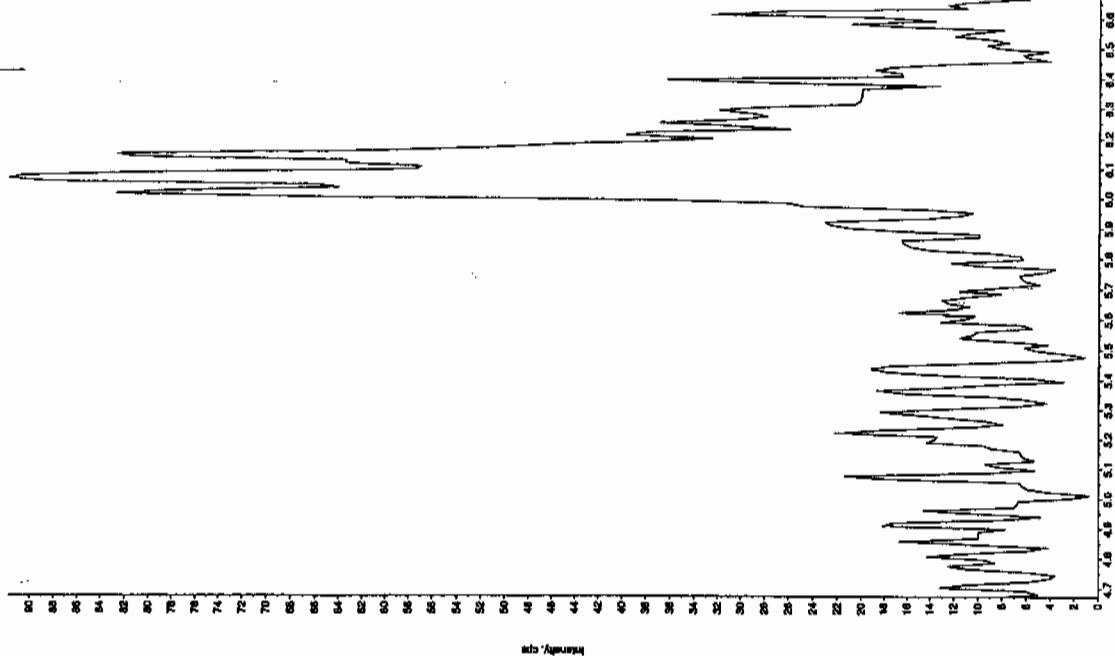
Sample Name: 245603002 Sample ID: 94705421 LRF File: EXS02120053.wif  
 Peak Name: 34-Diaminotoluene Mass(es): 162.1/151.9 amu  
 Comment: "LCX032125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 315 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:03:03 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IGA  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.56 min  
 Observed RT: No  
 Gate Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.53 min  
 Area: 3.52e+06 counts  
 Height: 825159.607 cps  
 Start Time: 8.42 min  
 End Time: 8.99 min



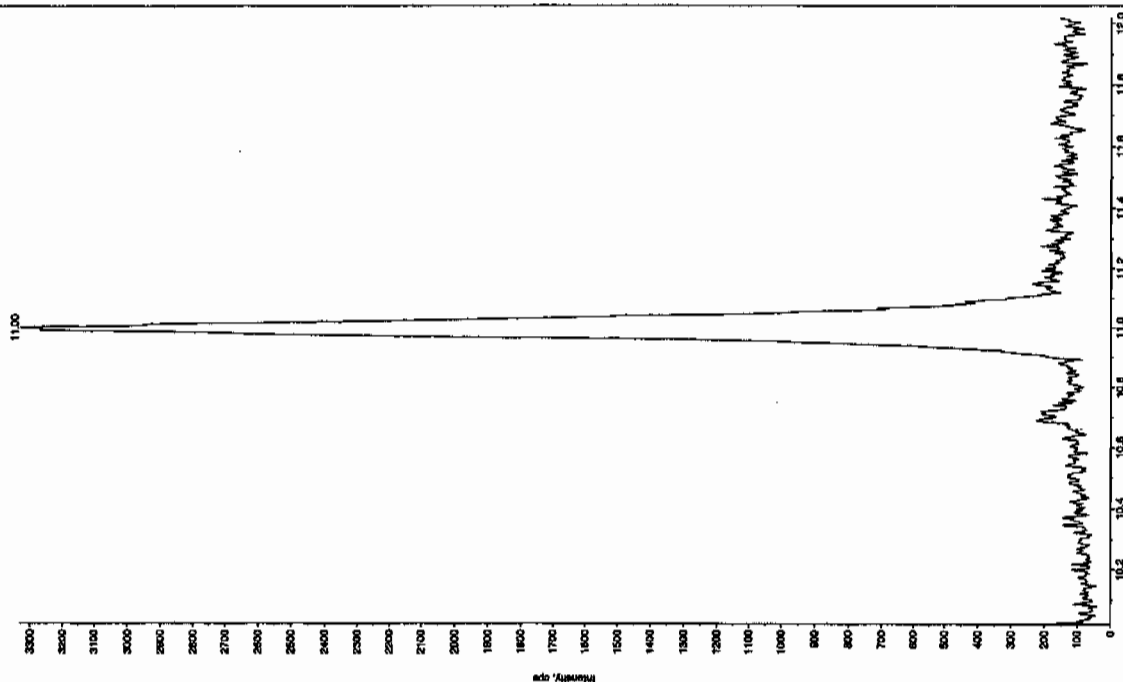
Sample Name: "24593302" Sample ID: "9470842121" File: "EX502720053.wiff"  
 Peak Name: "24-Diamino-6-nitrochene" Mass(es): "166.046.0 amu"  
 Comment: "1CX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 7/13/2010  
 Acq. Time: 1:03:03 AM  
 Modified: No



Sample Name: "24593302" Sample ID: "9470842121" File: "EX502720053.wiff"  
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.1871.0 amu"  
 Comment: "1CX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Acq. Date: 7/13/2010  
 Acq. Time: 1:03:03 AM  
 Modified: No



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7955

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803003

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 247080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208173a

Date Analyzed: 12-FEB-10 03:20

Units: ug/kg

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

\*Concentration =

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

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208173a

Date: 12-Feb-2010

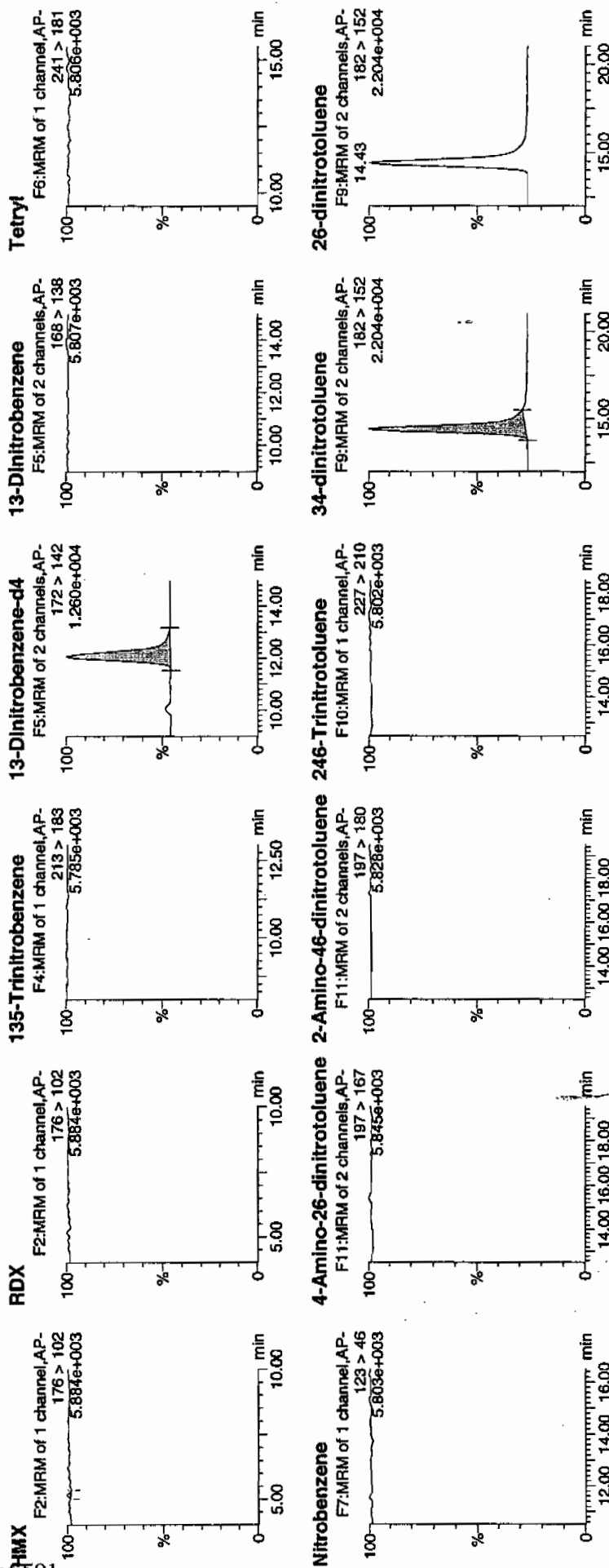
Time: 03:20:23

ID: 245803003

Vial: 4:3,A

4/2/10

WATSON 947084 | 21

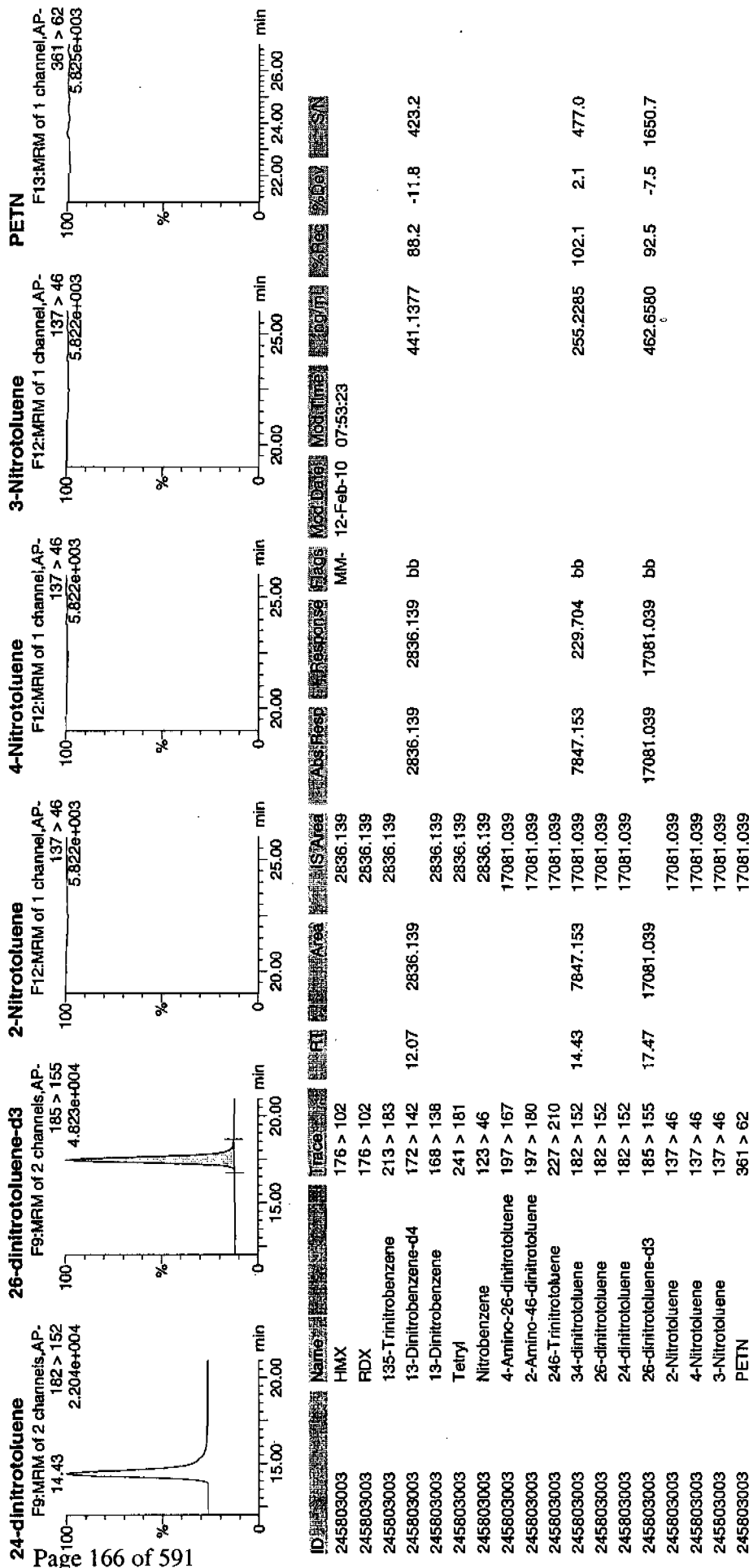


Handwritten signature



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

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7955

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803003

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120054.wiff

Date Analyzed: 13-FEB-10 01:18

Units: ug/kg

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

\*Concentration =

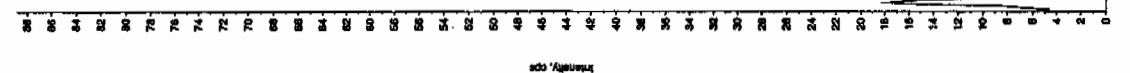
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor



Sample Name: "245803003" Sample ID: "947084121.ER" File: "EX952120054.will"  
 Peak Name: "25-Diamino-4-nitrofluorene" Mass(es): "186.046.0 amu"  
 Comment: "LCX832125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:18:46 AM  
 Modified: No

Intensity, cps

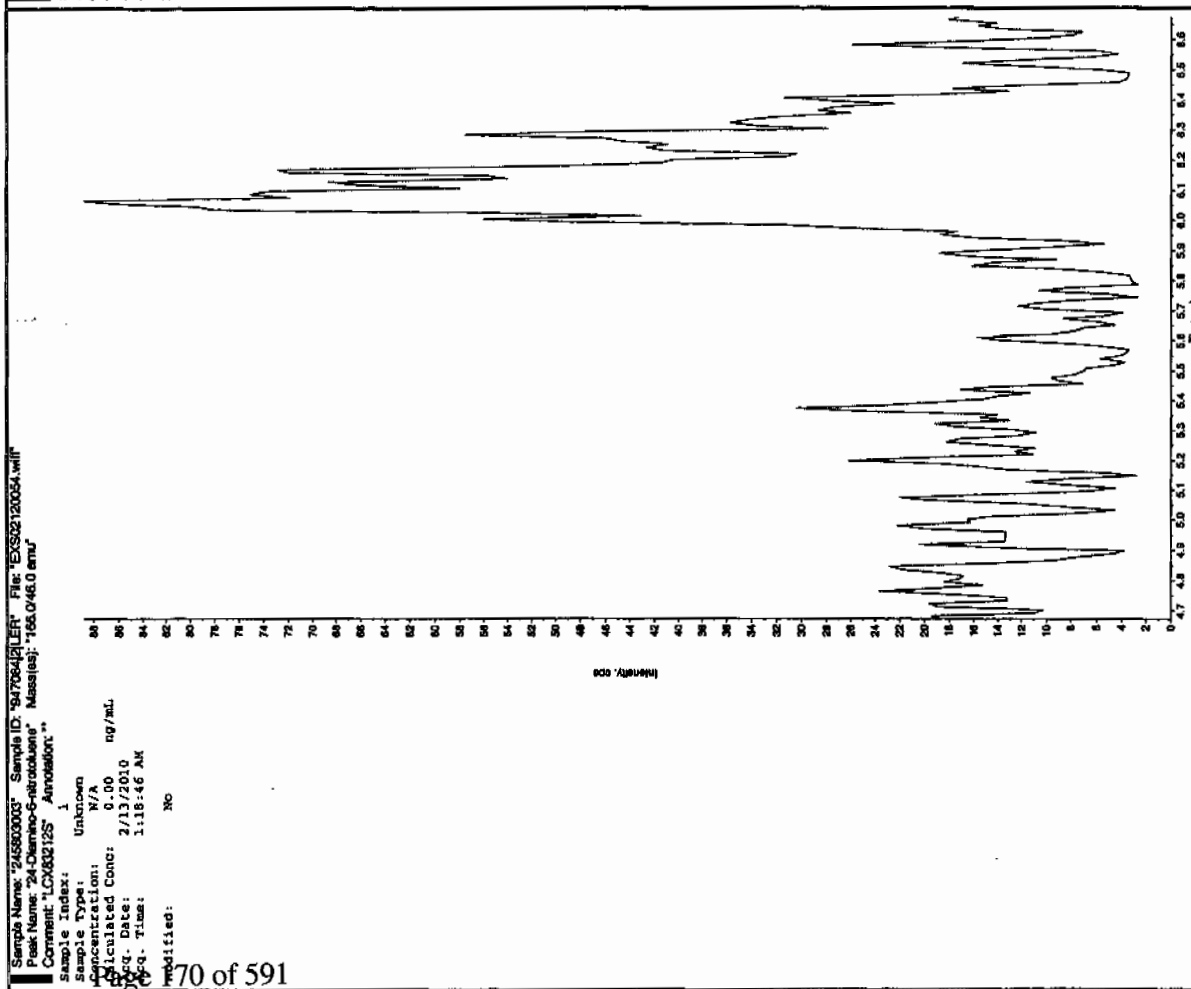
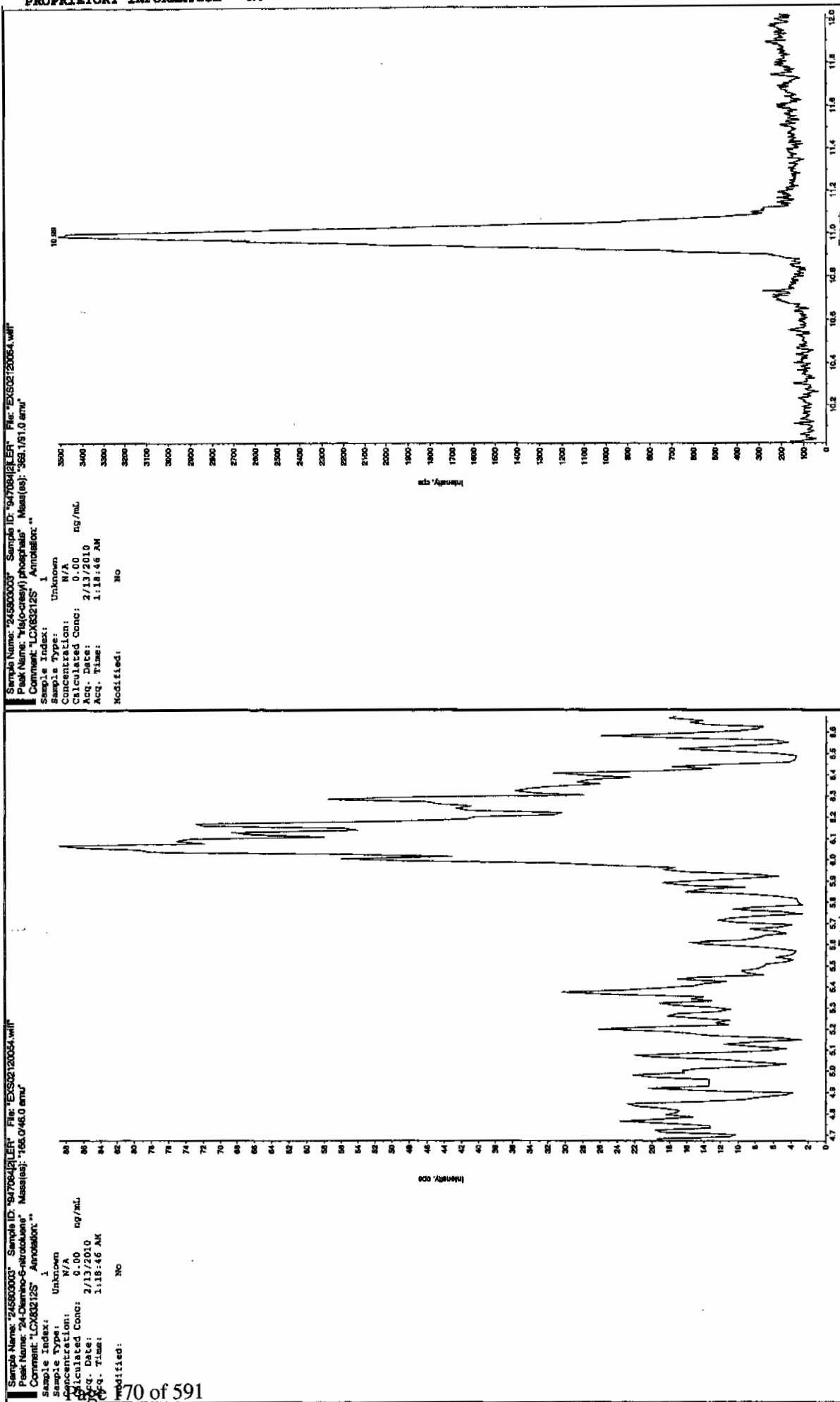


Sample Name: "245803003" Sample ID: "947084121.ER" File: "EX952120054.will"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1511.9 amu"  
 Comment: "LCX832125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 333. ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:18:46 AM  
 Modified: No  
 Algorithm: Int Aliquan - ION  
 Peak Width: 1460.00 cps  
 Peak Width: 3 0.00 sec  
 Sampling Width: 3 0.00 points  
 Window: 15.0 sec  
 Expected RT: 8.56 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.52 min  
 Area: 3.70e+036 counts  
 Height: 931708.252 cps  
 Start Time: 8.42 min  
 End Time: 8.90 min

Intensity, cps





1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7953

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803004

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208174a

Date Analyzed: 12-FEB-10 03:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	193	J
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

\*Concentration =

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

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

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP\_PRO\Data\EXP0208174a

Date: 12-Feb-2010

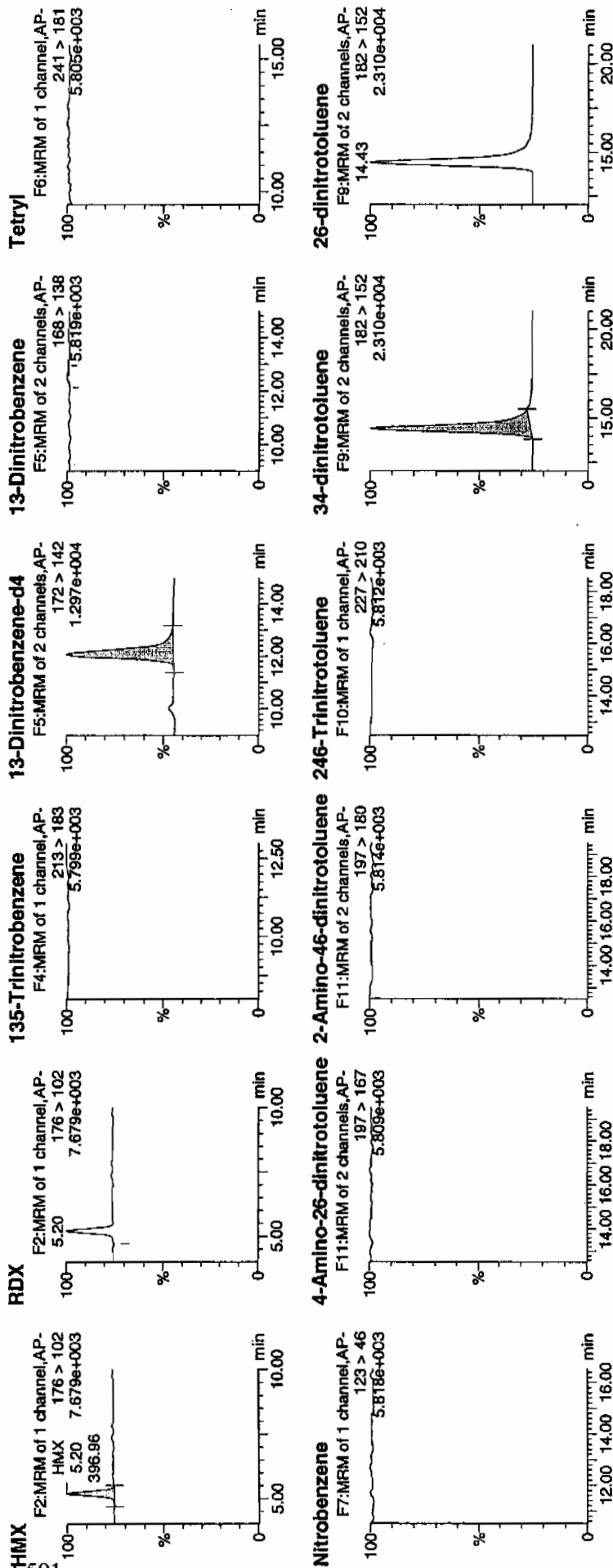
Time: 03:50:09

ID: 245803004

Vial: 4:3,B

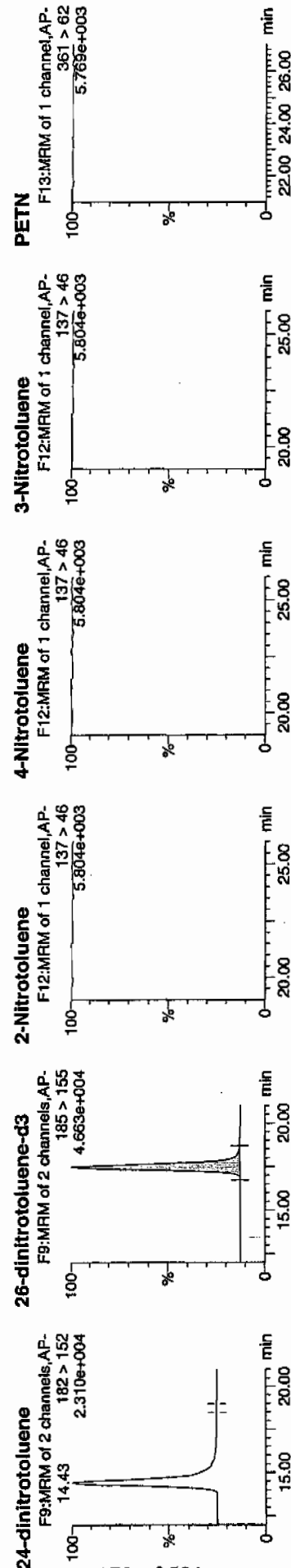
1/2/10

21



done 1/2/10

Dataset: C:\MASSLYN\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



Name	ID	Trace	FRT	Area	S Area	Pgs.Resp	Response	Flags	Mod Date	%Rec	%Dev	SSN
HMX	245803004	176 > 102	5.20	396.957	2962.385	396.957	67.000	bb	19.2926			63.0
RDX	245803004	176 > 102			2962.385							
135-Trinitrobenzene	245803004	213 > 183			2962.385							
13-Dinitrobenzene-d4	245803004	172 > 142	12.07	2962.385		2962.385	2962.385	bb	460.7742	92.2	-7.8	291.6
13-Dinitrobenzene	245803004	168 > 138			2962.385			MM-	12-Feb-10 07:55:17			
Tetryl	245803004	241 > 181			2962.385							
Nitrobenzene	245803004	123 > 46			2962.385							
4-Amino-26-dinitrotoluene	245803004	197 > 167			16734.322							
2-Amino-46-dinitrotoluene	245803004	197 > 180			16734.322							
246-Trinitrotoluene	245803004	227 > 210			16734.322							
34-dinitrotoluene	245803004	182 > 152	14.43	8373.761	16734.322	8373.761	250.197	bb	277.9993	111.2	11.2	717.0
26-dinitrotoluene	245803004	182 > 152			16734.322							
24-dinitrotoluene	245803004	182 > 152			16734.322							
26-dinitrotoluene-d3	245803004	185 > 155	17.47	16734.322		16734.322	16734.322	bb	453.2668	90.7	-9.3	1964.2
2-Nitrotoluene	245803004	137 > 46			16734.322							
4-Nitrotoluene	245803004	137 > 46			16734.322							
3-Nitrotoluene	245803004	137 > 46			16734.322							
PETN	245803004	361 > 62			16734.322							



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7953

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803004

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120055.wiff

Date Analyzed: 13-FEB-10 01:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	500	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

Sen 2/15/10

Sample Name: "245803004" Sample ID: "947094121.ER" File: "EX02120055.wif"

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

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 57.0 ng/mL

Calculated Conc: 2/13/2010

Acq. Date: 1:34:29 AM

Acq. Time: 1:34:29 AM

Modified: No

Subc. Algorithm: IntelliQuan - IQA

Subc. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoother Width: 3 points

RT Window: 30.0 sec

Selected RT: 7.19 min

Use Relative RT: No

Int. Type: Valley

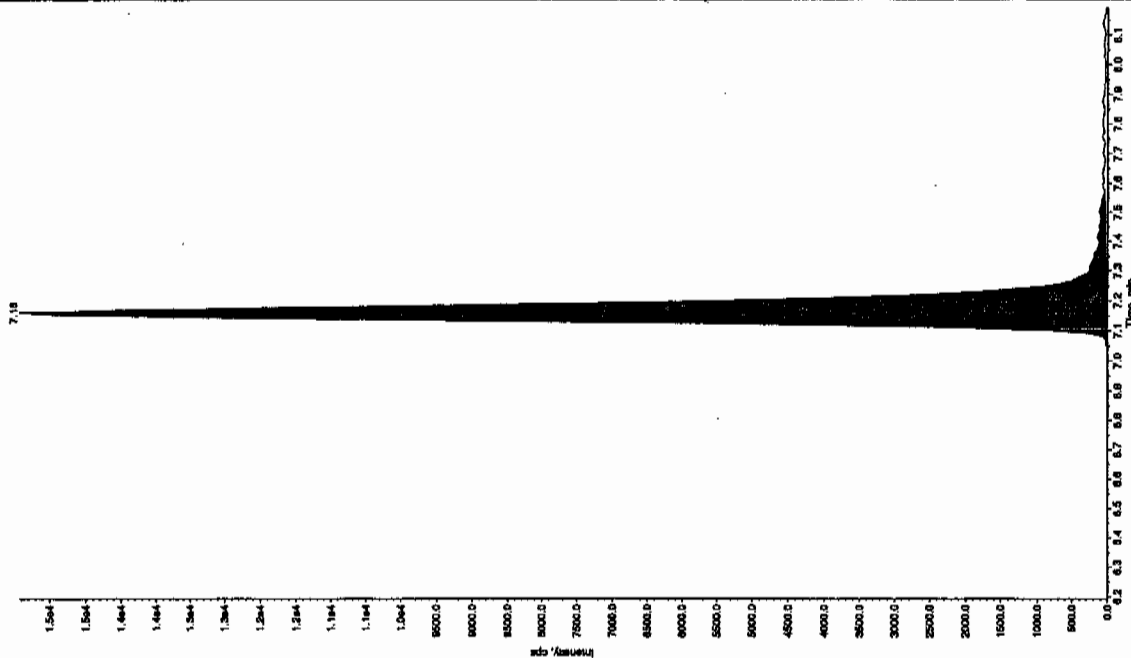
Retention Time: 7.16 min

Area: 6.79e+004 counts

Height: 15412.611 cps

Start Time: 7.01 min

End Time: 7.56 min



Sample Name: "245803004" Sample ID: "947094121.ER" File: "EX02120055.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "162.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

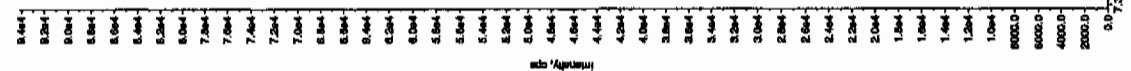
Concentration: 57.0 ng/mL

Calculated Conc: 2/13/2010

Acq. Date: 1:34:29 AM

Acq. Time: 1:34:29 AM

Modified: Yes

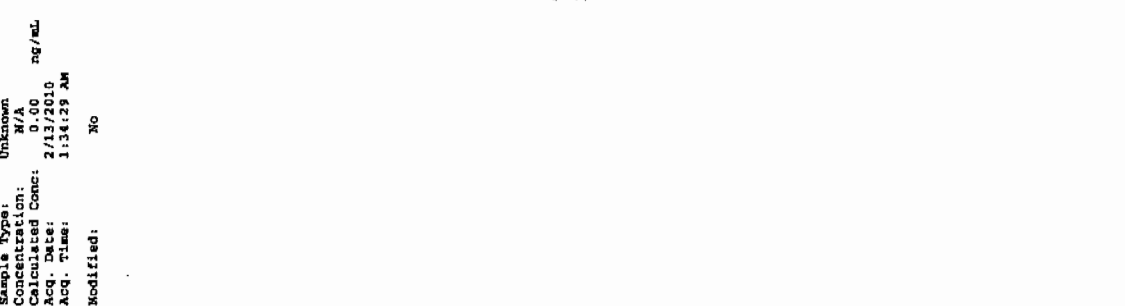


Ammonia

Sample Name: "24580004" Sample ID: "94709421ER" File: "EX502120055.wif"  
 Peak Name: "28-Diethyl-4-nitrobenzene" Mass(es): "186.046.0 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:34:29 AM  
 Modified: No

Intensity, cps



Sample Name: "24580004" Sample ID: "94709421ER" File: "EX502120055.wif"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.07151.9 amu"  
 Comment: "LCX832125" Annotation: ""

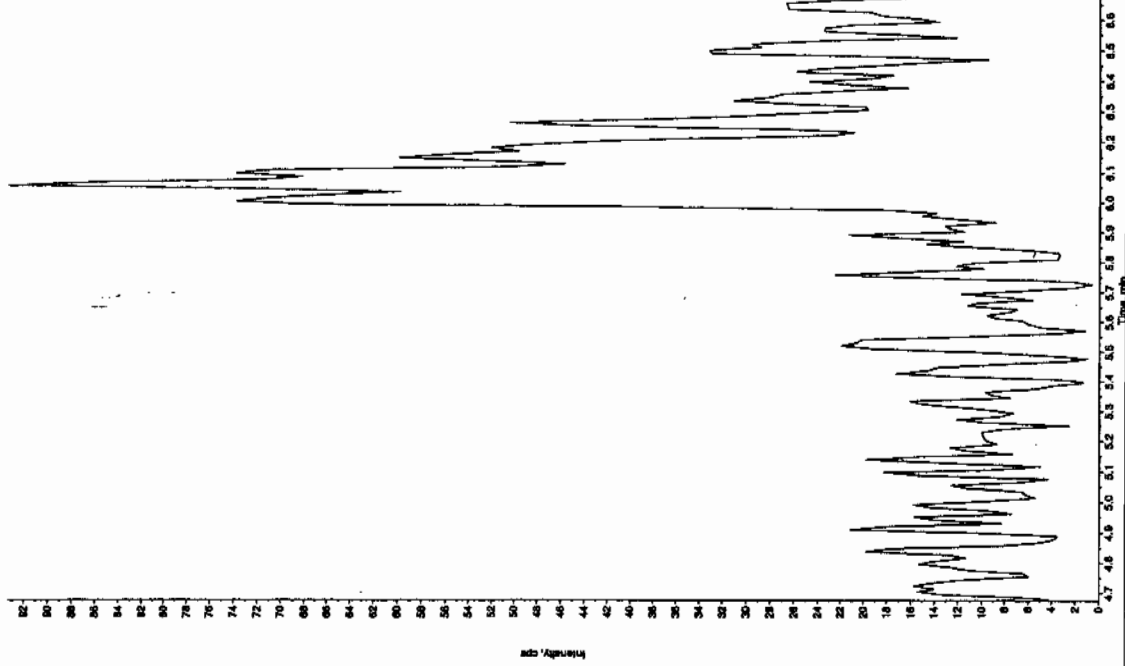
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 330. ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:34:29 AM  
 Modified: No  
 Det. Acquisition Time: 1:34:29 AM  
 Peak Height: 1460.00 cps  
 Peak Width: 3.00 sec  
 Smoothing Width: 15.0 points  
 RT Window: 8.56 min  
 Expected RT: 8.56 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.52 min  
 Area: 3.68e+006 counts  
 Height: 914322.886 cps  
 Start Time: 8.42 min  
 End Time: 8.63 min

Intensity, cps



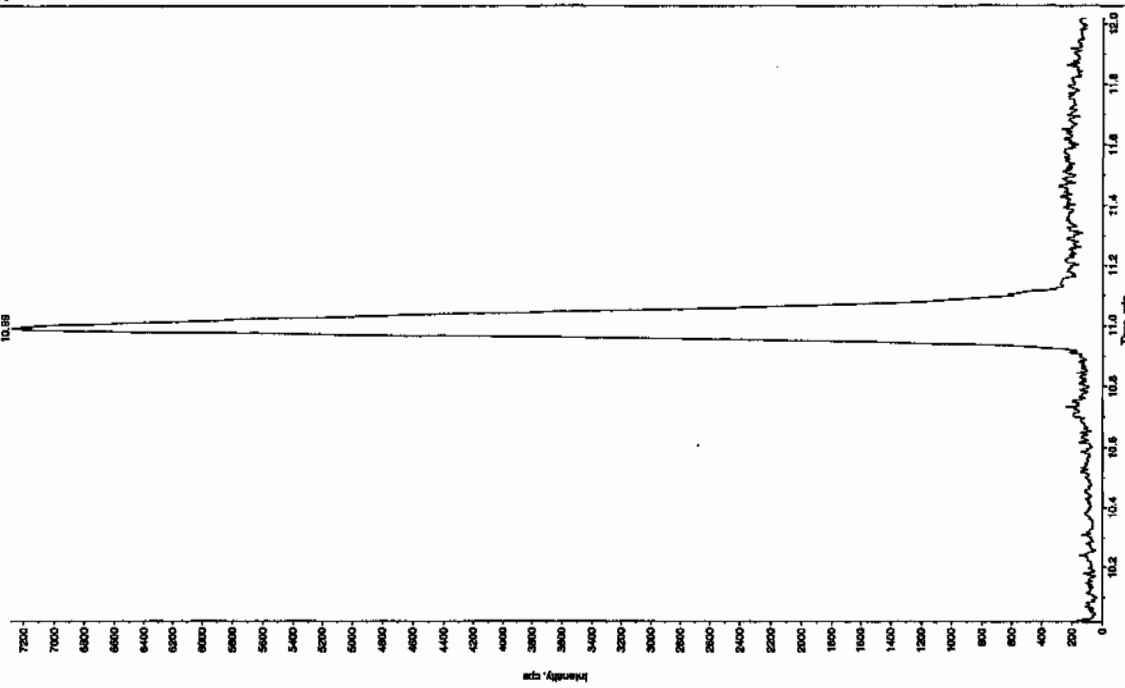
Sample Name: "246800004" Sample ID: "947094121" File: "EXS02120055.wif"  
 Peak Name: "24-Diamino-6-nitroDune" Mass(es): "166.046.0 amu"  
 Comment: "LCX032125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A ng/mL  
 Calculated Conc: 2/13/2010  
 Acq. Date: 11/31/29 AM  
 Modified: No



Sample Name: "246800004" Sample ID: "947094121" File: "EXS02120055.wif"  
 Peak Name: "166.046.0 amu" Mass(es): "369.1781.0 amu"  
 Comment: "LCX032125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A ng/mL  
 Calculated Conc: 2/13/2010  
 Acq. Date: 11/31/29 AM  
 Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7952

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803005

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208175a

Date Analyzed: 12-FEB-10 04:19

Units: ug/kg

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

\*Concentration =

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

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qtd, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208175a

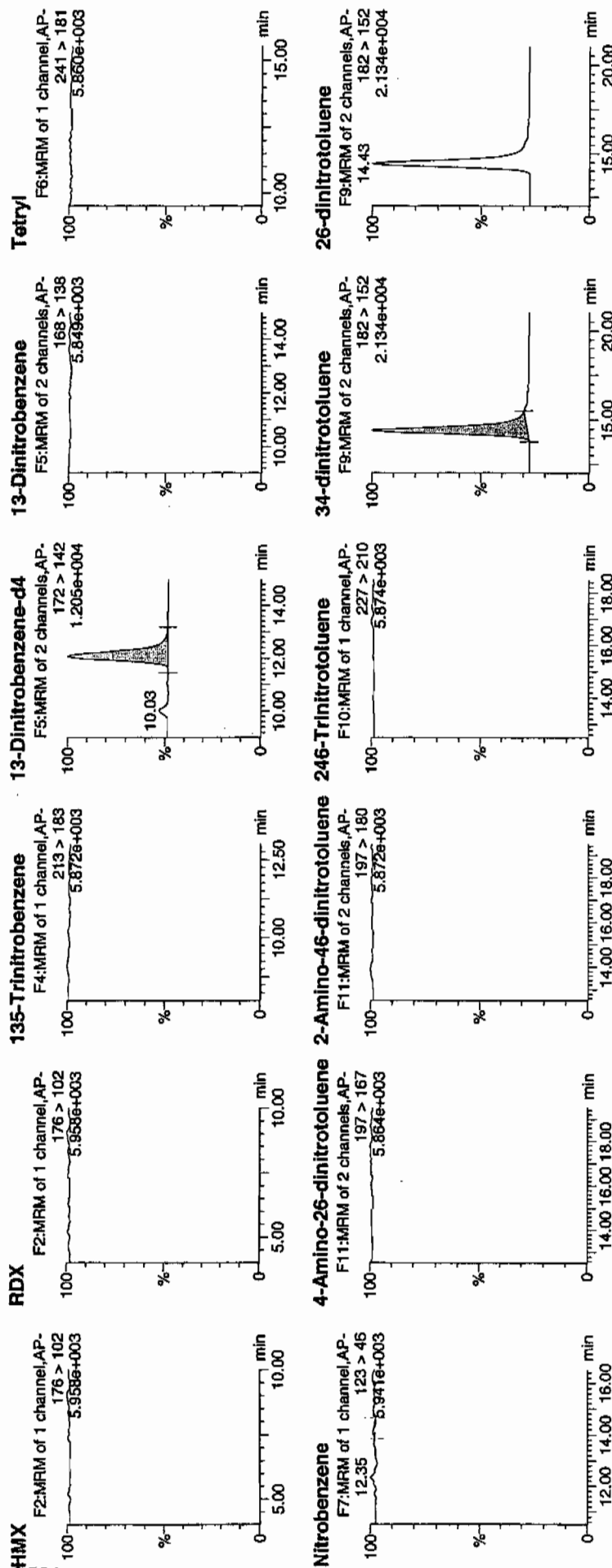
Date: 12-Feb-2010

Time: 04:19:38

ID: 245803005

Vial: 4:3,C

Handwritten notes: *WAW*, *947084*, *2/12/10*, *2/12/10*



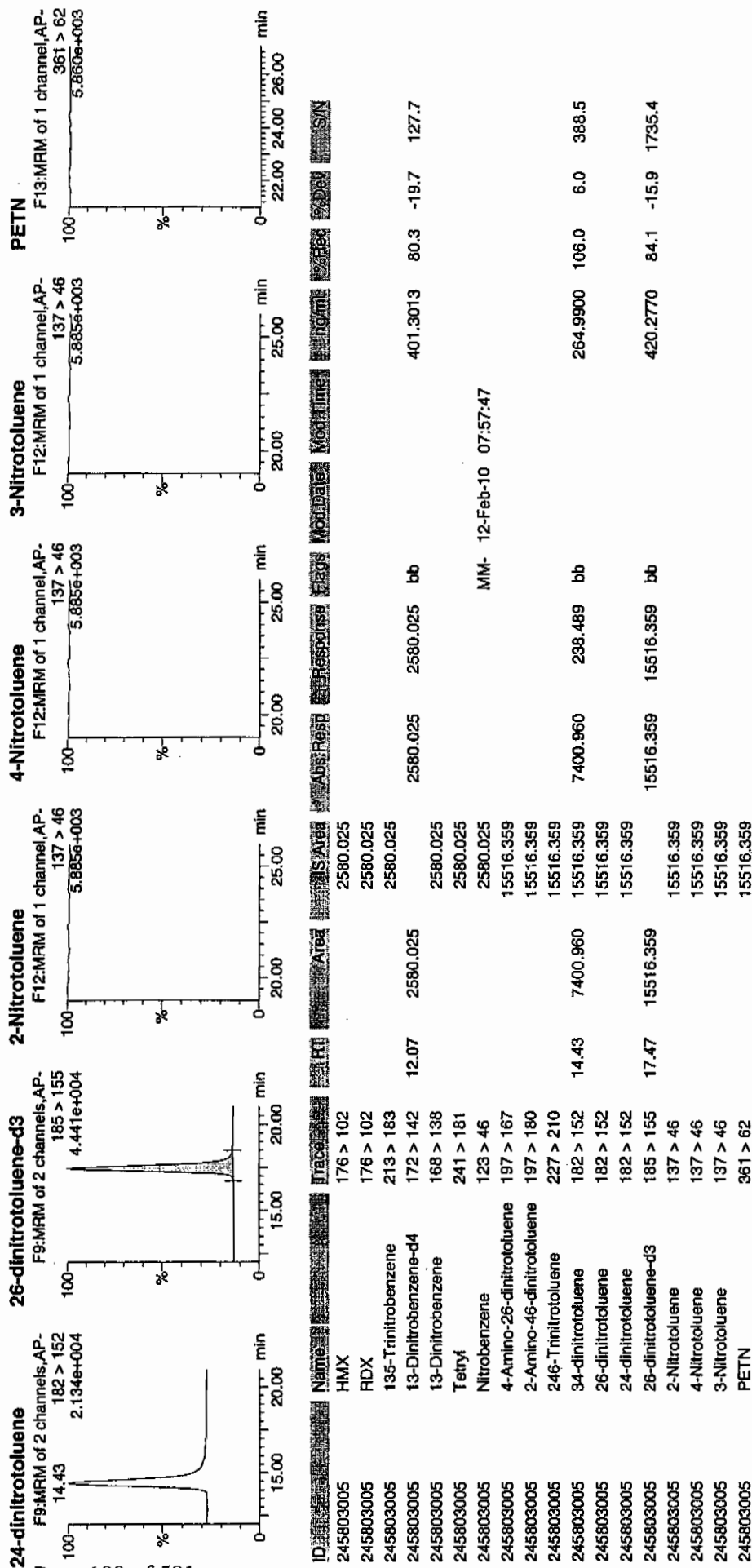
Handwritten note: *Handwritten on 12/10*

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Fri Feb 12 08:13:51 2010, Page 80 of 93

Dataset: C:\MASSLYNX\New\_Exp\PRO1020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7952

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803005

Sample Amount 2

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

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120056.wiff

Date Analyzed: 13-FEB-10 01:50

Units: ug/kg

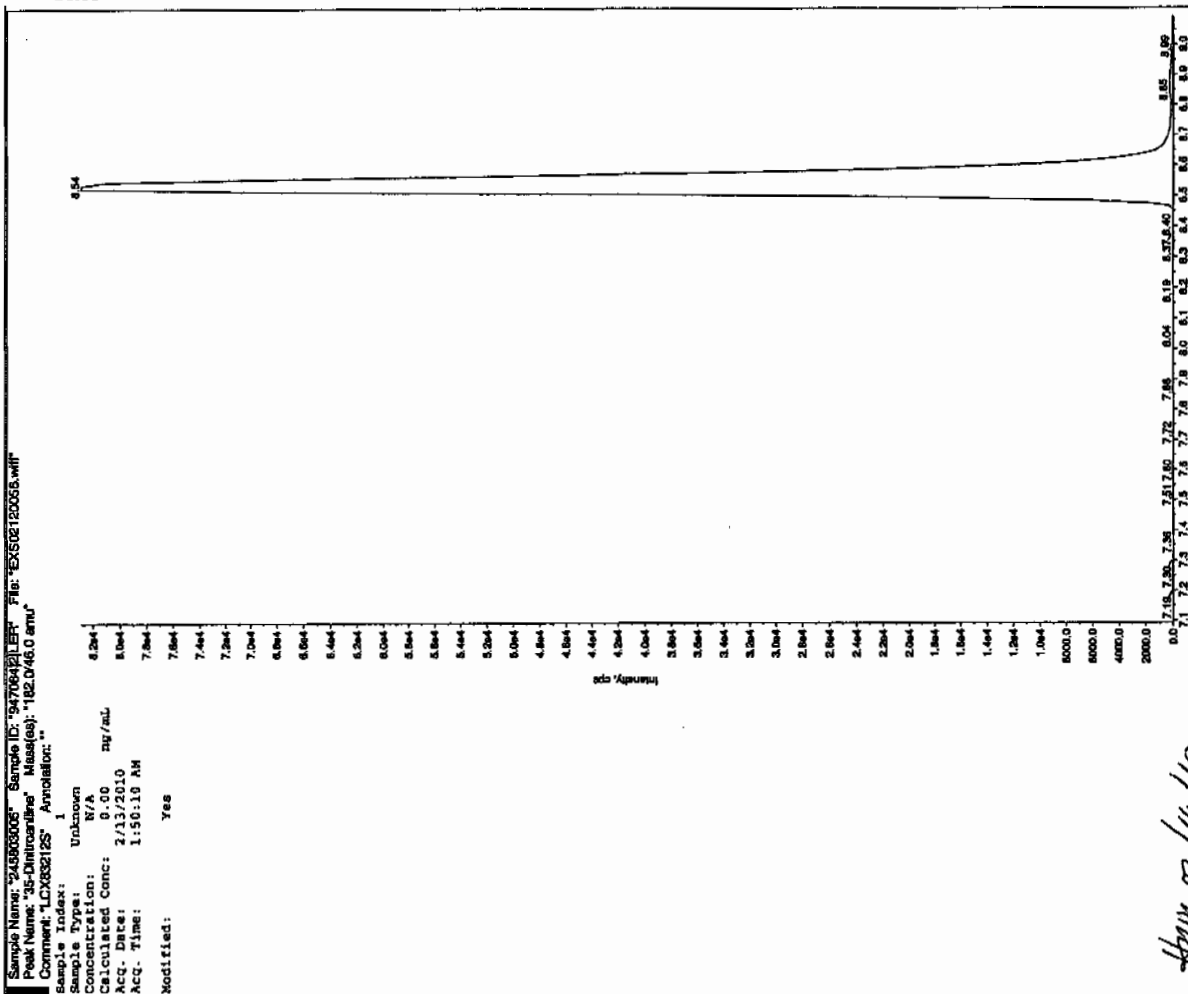
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

\*Concentration =

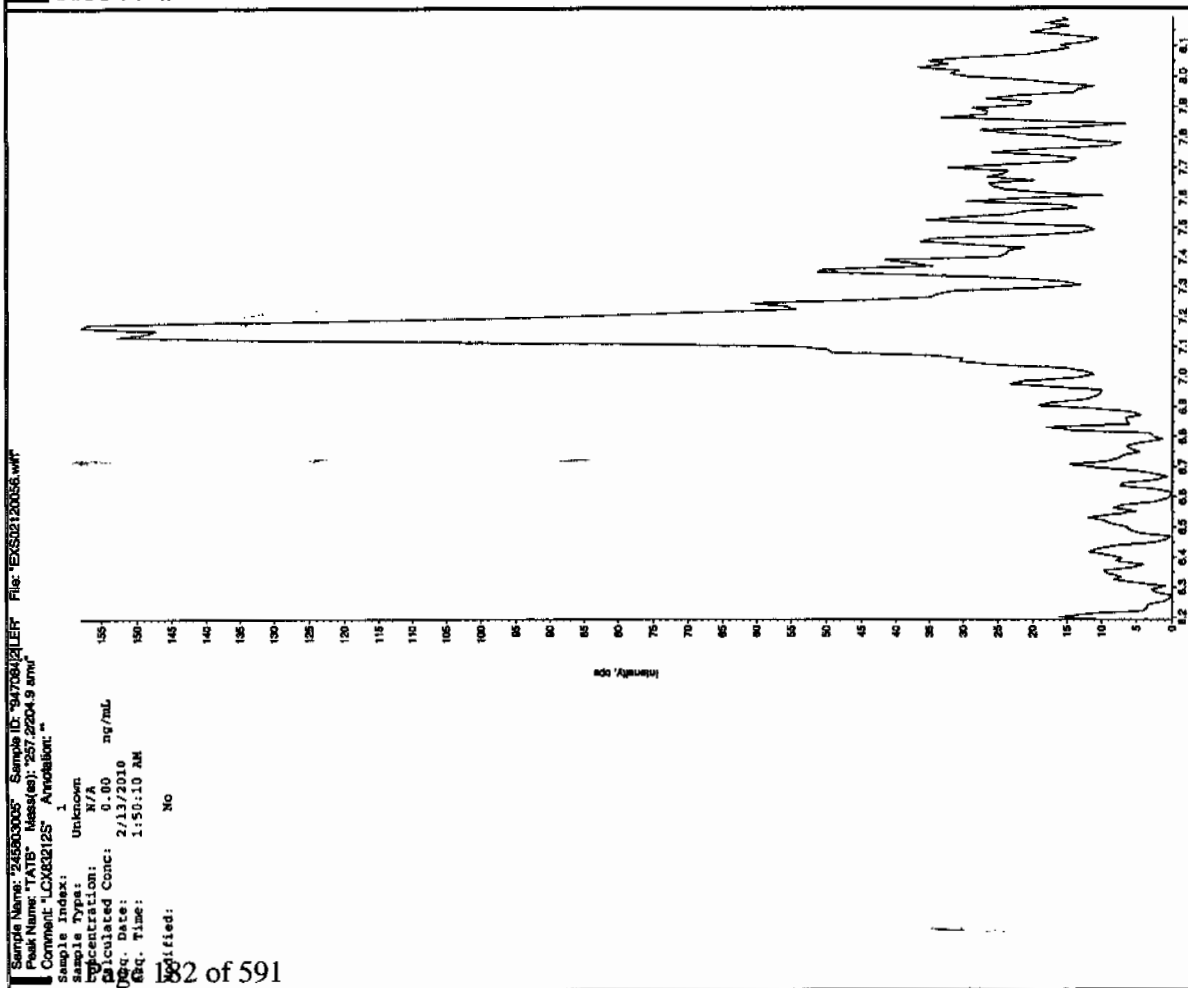
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor



See 2/15/10



Amr 02/16/10



Sample Name: "245803005" Sample ID: "947064[2] LER" File: "EX502120068.wif"

Peak Name: "25-Diethyl-4-nitrophenol" Mass(es): "186.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 2/13/2010  
Acq. Time: 1:50:10 AM  
Modified: No

Intensity, cps



Sample Name: "245803005" Sample ID: "947064[2] LER" File: "EX502120068.wif"

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

Comment: "LCX832125" Annotation: "

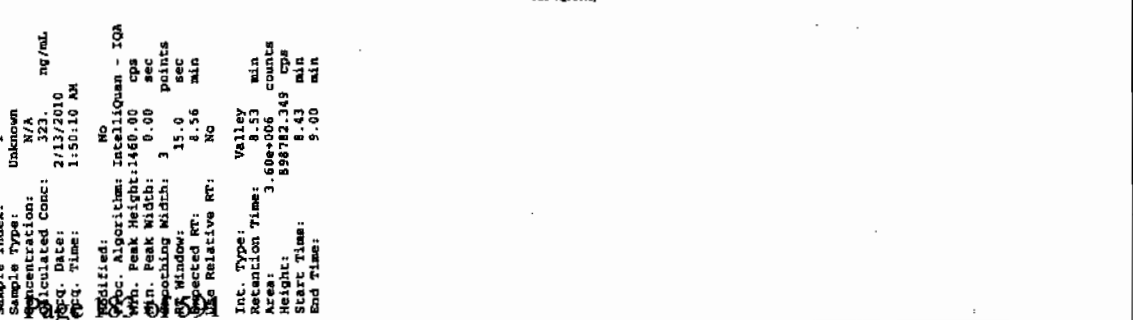
Sample Index: 1

Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 323.  
Acq. Date: 2/13/2010  
Acq. Time: 1:50:10 AM  
Modified: No

Acq. Algorithm: Intelligent - IQA  
Win. Peak Height: 1469.00 cps  
Win. Peak Width: 8.00 sec  
Win. Peak Width: 3.00 points  
Win. Peak Width: 15.0 sec  
Win. Peak Width: 4.56 min  
Win. Peak Width: No

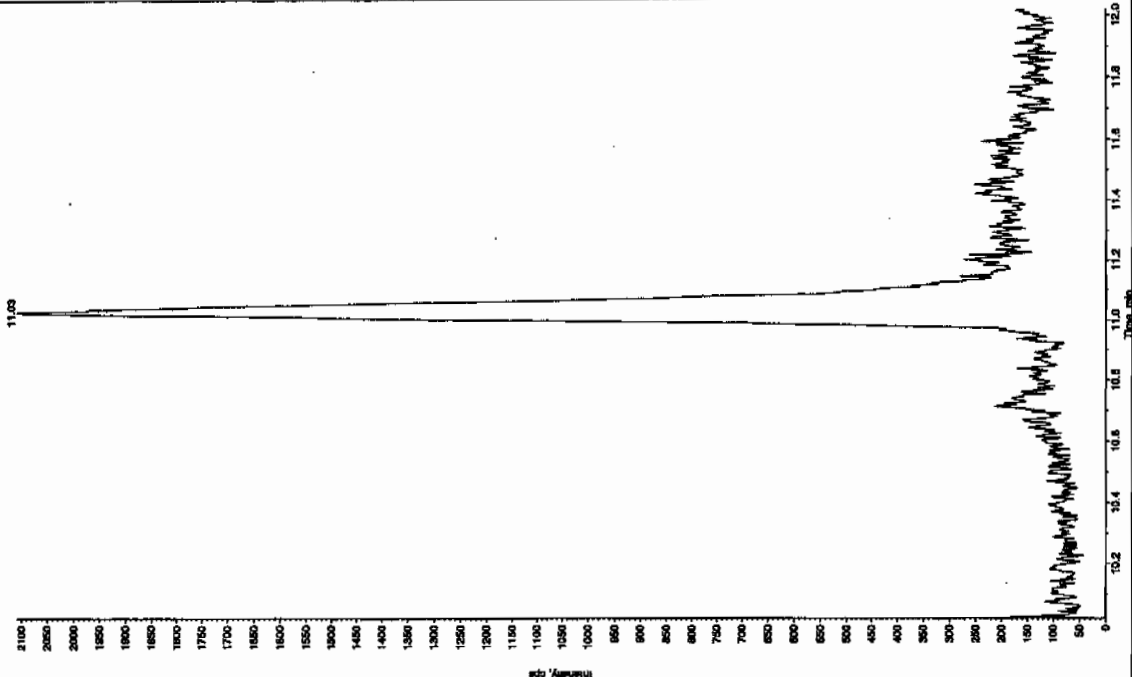
Int. Type: Valley  
Retention Time: 8.53 min  
Area: 3.60e+006 counts  
Height: 598782.349 cps  
Start Time: 8.43 min  
End Time: 9.00 min

Intensity, cps



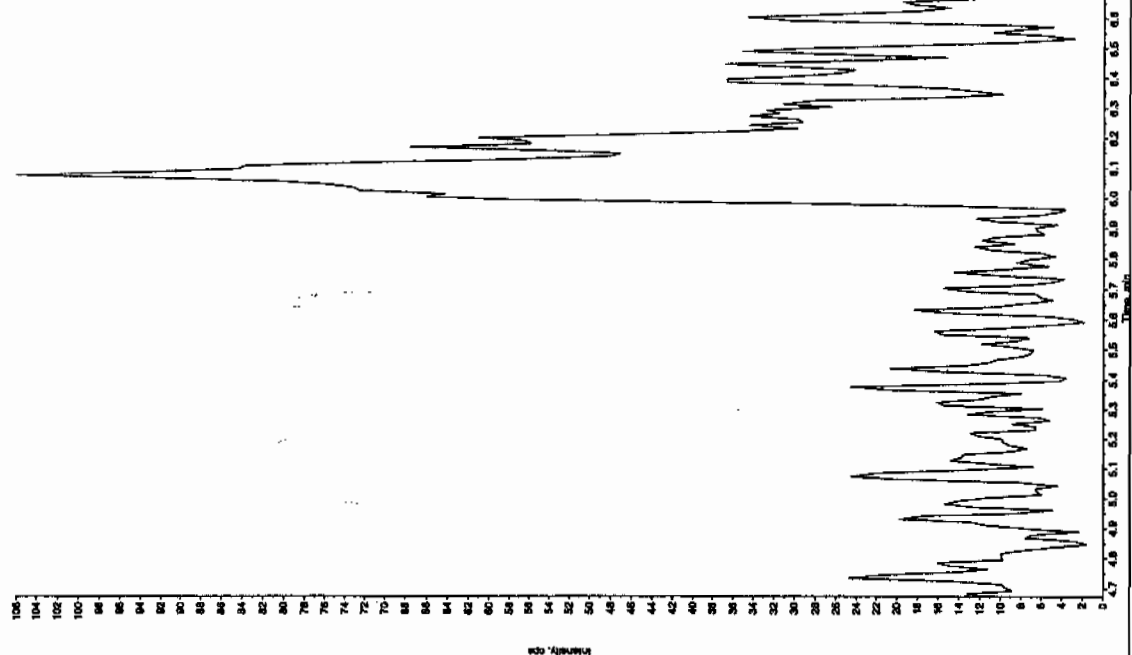
Sample Name: "245803005" Sample ID: "34708421.ER" File: "EXS02120058.wif"  
 Peak Name: "Wido-cromyl phosphate" Mass(es): "358.161.0 amu"  
 Comment: "LCX83212S" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:50:10 AM  
 Modified: No



Sample Name: "245803005" Sample ID: "34708421.ER" File: "EXS02120058.wif"  
 Peak Name: "2,4-Dinitro-6-nitrobenzoate" Mass(es): "166.046.0 amu"  
 Comment: "LCX83212S" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 1:50:10 AM  
 Modified: No



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8060

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803006

Sample Amount 2

Moisture: 14.6

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208176a

Date Analyzed: 12-FEB-10 04:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	282	J
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

\*Concentration =

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

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208176a

Date: 12-Feb-2010

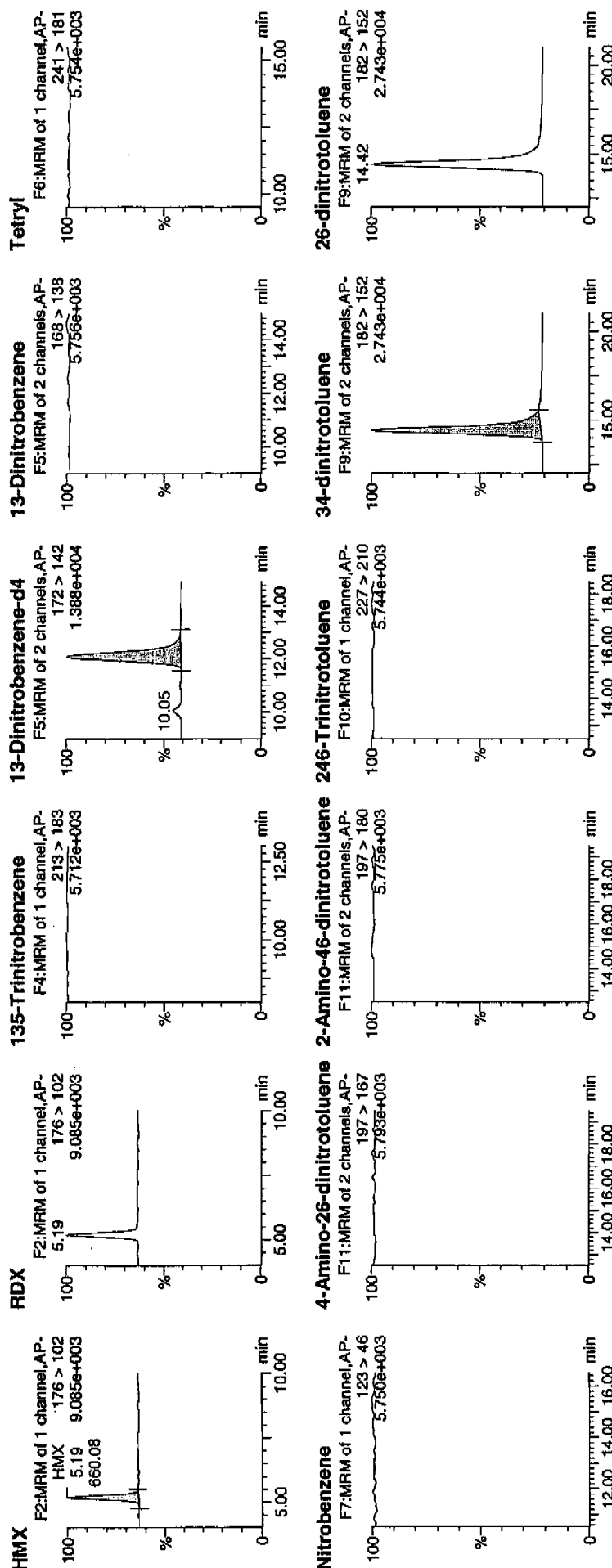
Time: 04:49:07

ID: 245803006

Vial: 4:3,D

2/12/10

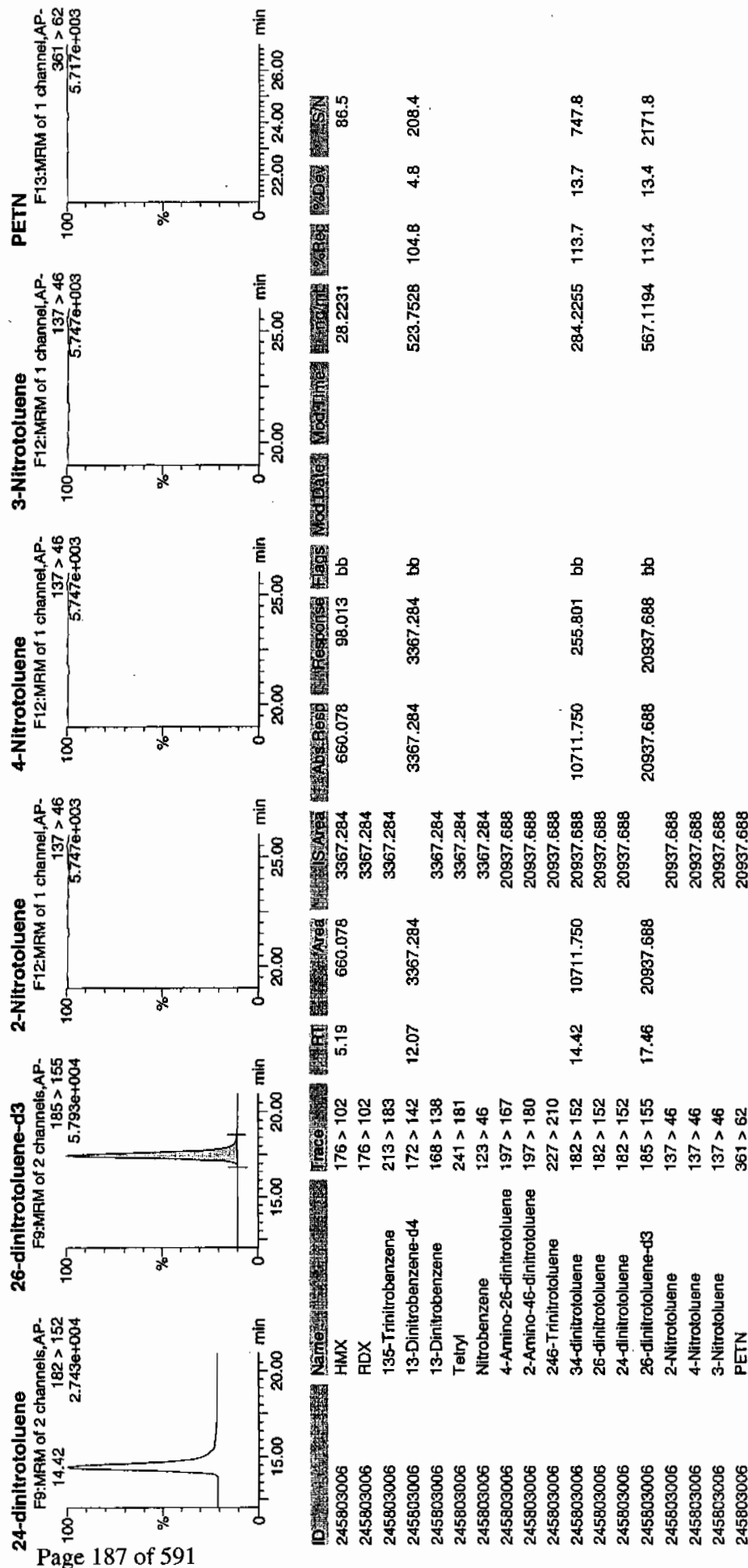
947084 | 8032 | 21



Handwritten signature

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8060

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803006

Sample Amount 2

Moisture: 14.6

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120057.wiff

Date Analyzed: 13-FEB-10 02:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	312	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

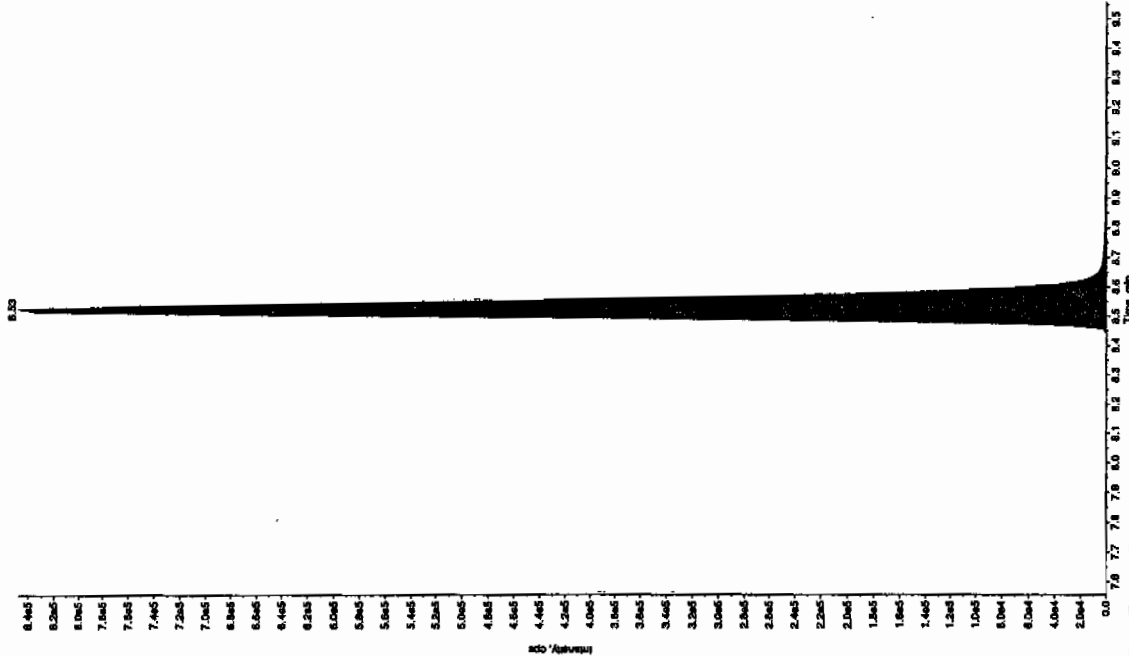
for 2/15/10





Sample Name: "245500008" Sample ID: "947084121" File: "EX502120057.wif"  
 Peak Name: "26-Dimino-4-nitrofluorene" Mass(es): "169.046.0 amu"  
 Comment: "LCX852125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 2/13/2010 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:05:52 AM  
 Modified: No



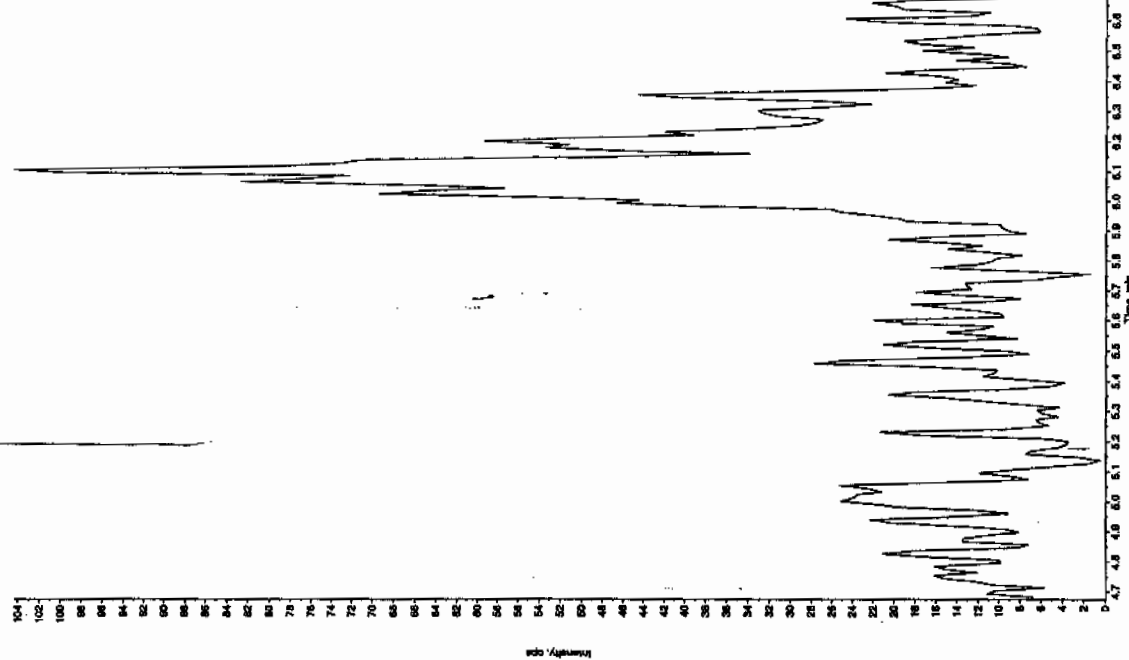
Sample Name: "245500008" Sample ID: "947084121" File: "EX502120057.wif"  
 Peak Name: "34-Dimino-4-nitrofluorene" Mass(es): "182.1151.9 amu"  
 Comment: "LCX852125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 2/13/2010 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:05:52 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Ret. Peak Height: 1460.00 cps  
 Ret. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 Window: 15.0 sec  
 Detected RT: 8.56 min  
 Relative RT: No  
 Ret. Type: Valley  
 Retention Time: 8.53 min  
 Area: 3.54e+006 counts  
 Height: 57212.463 cps  
 Start Time: 8.42 min  
 End Time: 8.60 min



Sample Name: "245830008" Sample ID: "64709421ER" File: "EX582120057.wif"  
 Peak Name: "tris(cresyl) phosphate" Mass(es): "359.181.0 amu"  
 Comment: "LCX832125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:05:52 AM  
 Modified: No



Sample Name: "245830008" Sample ID: "64709421ER" File: "EX582120057.wif"  
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "186.046.0 amu"  
 Comment: "LCX832125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:05:52 AM  
 Modified: No



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8058

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803007

Sample Amount 2

Moisture: 35.9

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208177a

Date Analyzed: 12-FEB-10 05:18

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

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208177a

Date: 12-Feb-2010

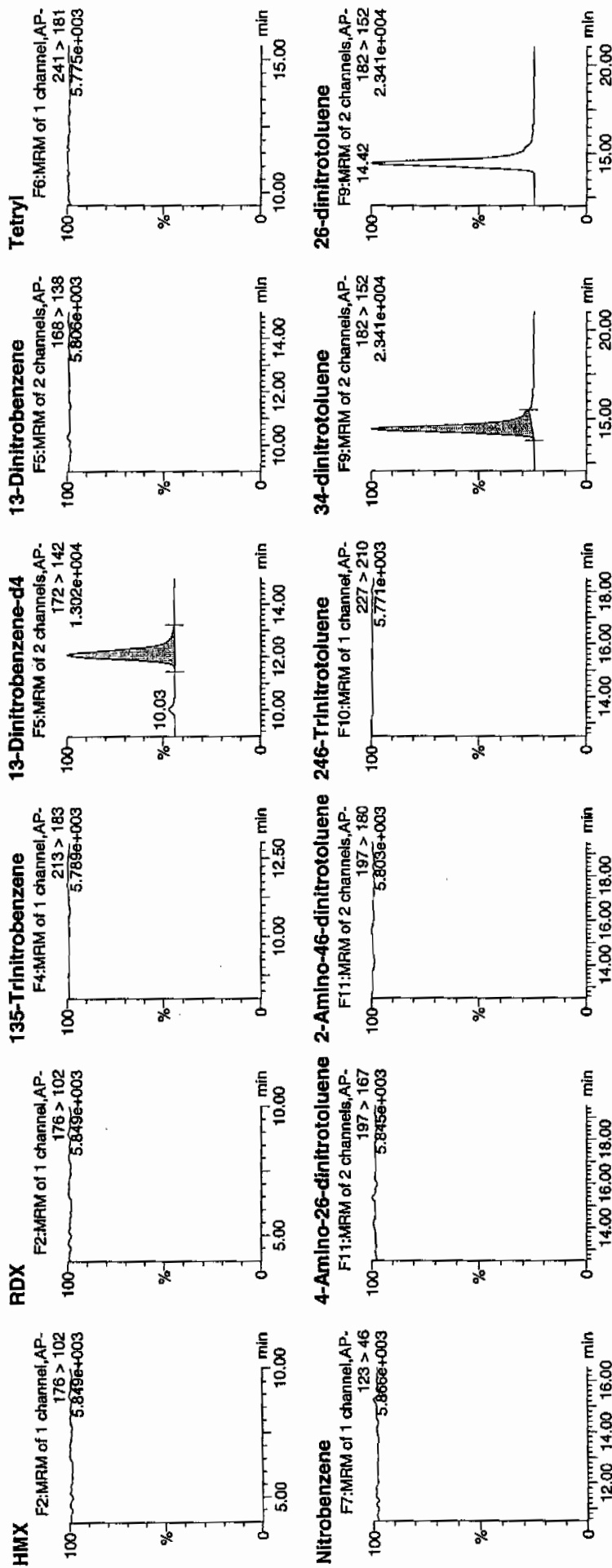
Time: 05:18:36

ID: 245803007

Vial: 4:3,E

*not  
2/12/10*

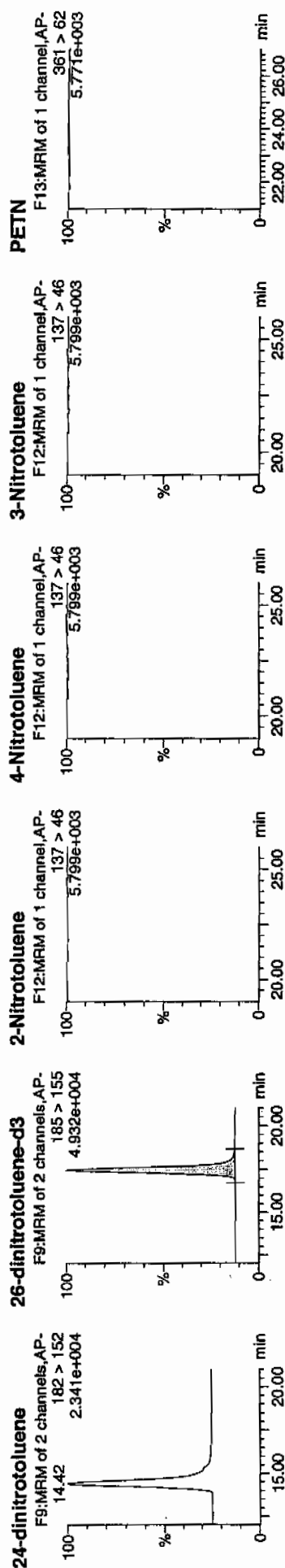
*LANU | 947004 | 21 | 5.8495e+003*



*Handwritten signature*

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

[illegible]

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8058

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803007

Sample Amount 2

Moisture: 35.9

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120058.wiff

Date Analyzed: 13-FEB-10 02:21

Units: ug/kg

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

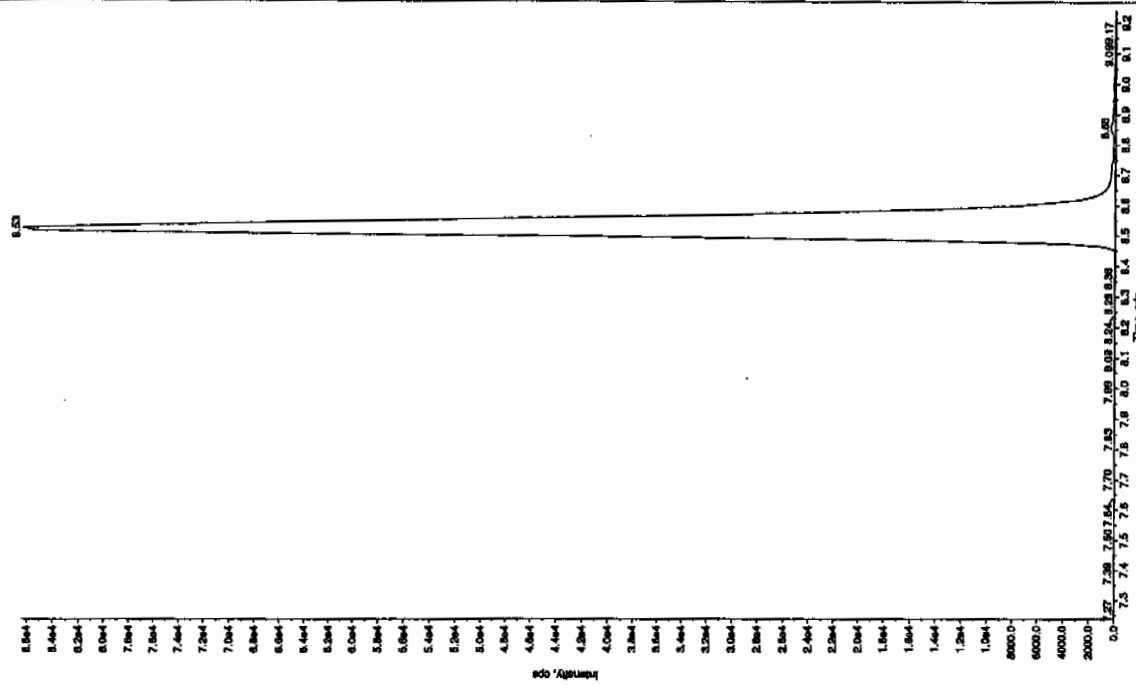
\*Concentration =

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

2/15/10

Sample Name: 245803007 Sample ID: 24708421LEF File: EX50212068.wif  
Peak Name: 245803007 Mass(es): 182.0460 amu  
Comment: LCX032125 Annotation:

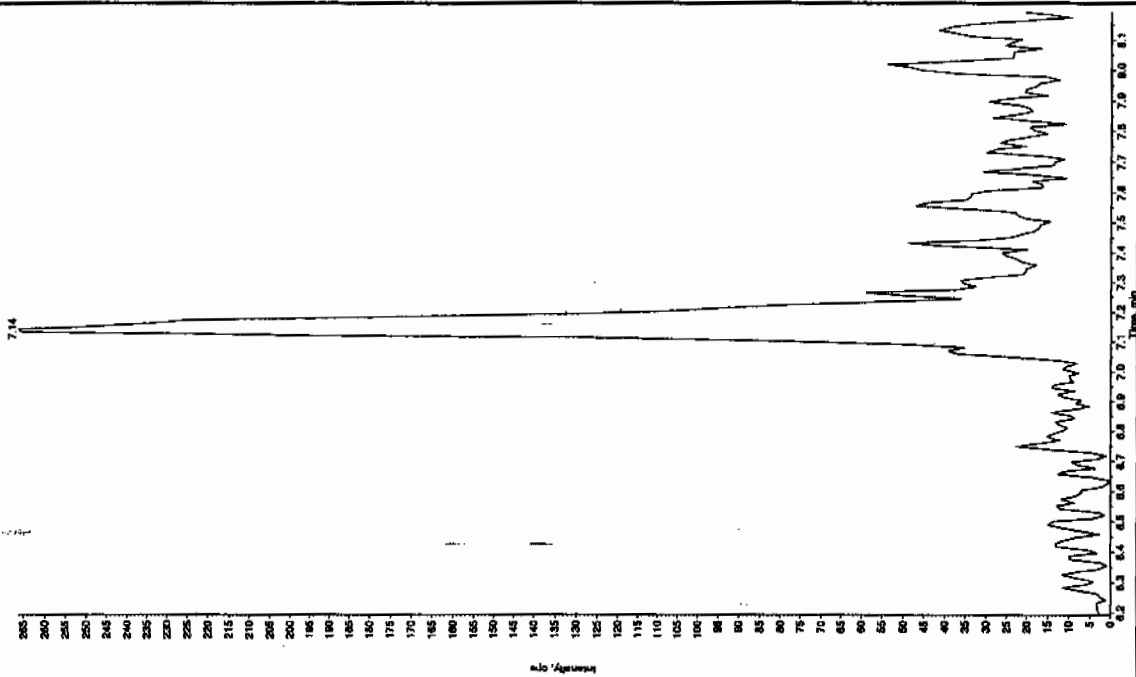
Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 2/13/2010  
Acq. Time: 2:21:33 AM  
Modified: Yes



2/16/10

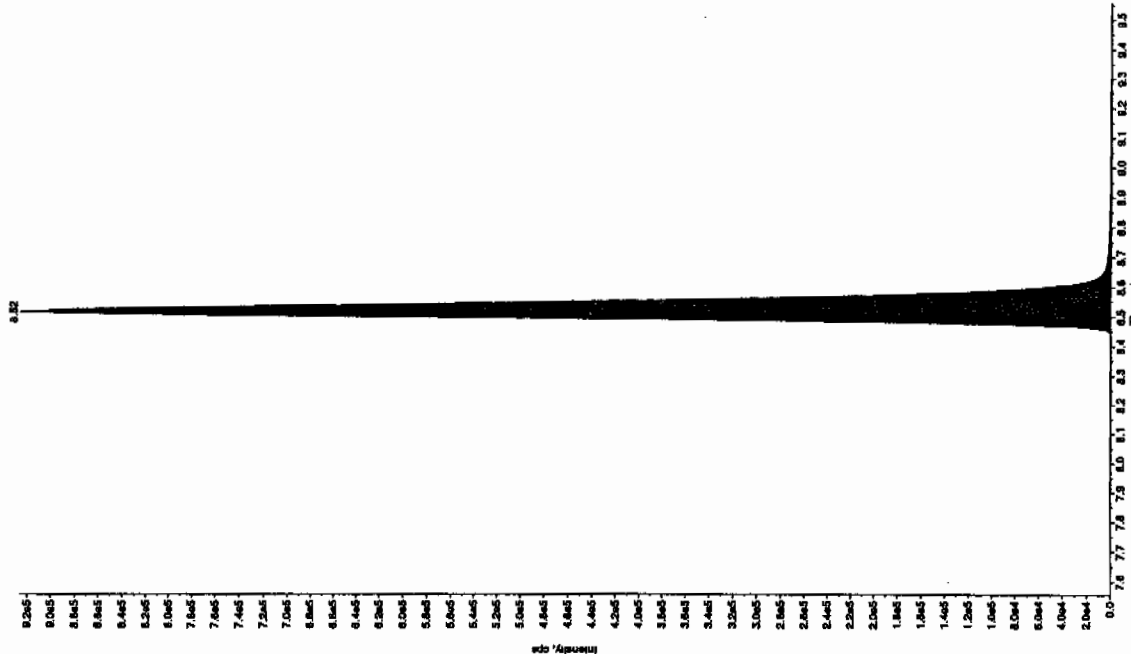
Sample Name: 245803007 Sample ID: 24708421LEF File: EX50212068.wif  
Peak Name: 245803007 Mass(es): 182.0460 amu  
Comment: LCX032125 Annotation:

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 2/13/2010  
Acq. Time: 2:21:33 AM  
Modified: No



Sample Name: "24580007" Sample ID: "947094121ER" File: "EXS02120058.wif"  
 Peak Name: "28-Diethyl-4-nitrobenzene" Mass(es): "186.046.0 amu"  
 Comment: "LCX02125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 2/13/2010 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:21:33 AM  
 Modified: No



Sample Name: "24580007" Sample ID: "947094121ER" File: "EXS02120058.wif"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1751.9 amu"  
 Comment: "LCX02125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 2/13/2010 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:21:33 AM  
 Modified: No  
 Acq. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 1460.08 cps  
 Min. Peak Width: 0.08 sec  
 Echoing Width: 3 points  
 Scan Window: 15.0 sec  
 Detected RT: 8.56 min  
 New Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.52 min  
 Area: 3.61e+006 counts  
 Height: 925748.718 cps  
 Start Time: 8.42 min  
 End Time: 8.92 min



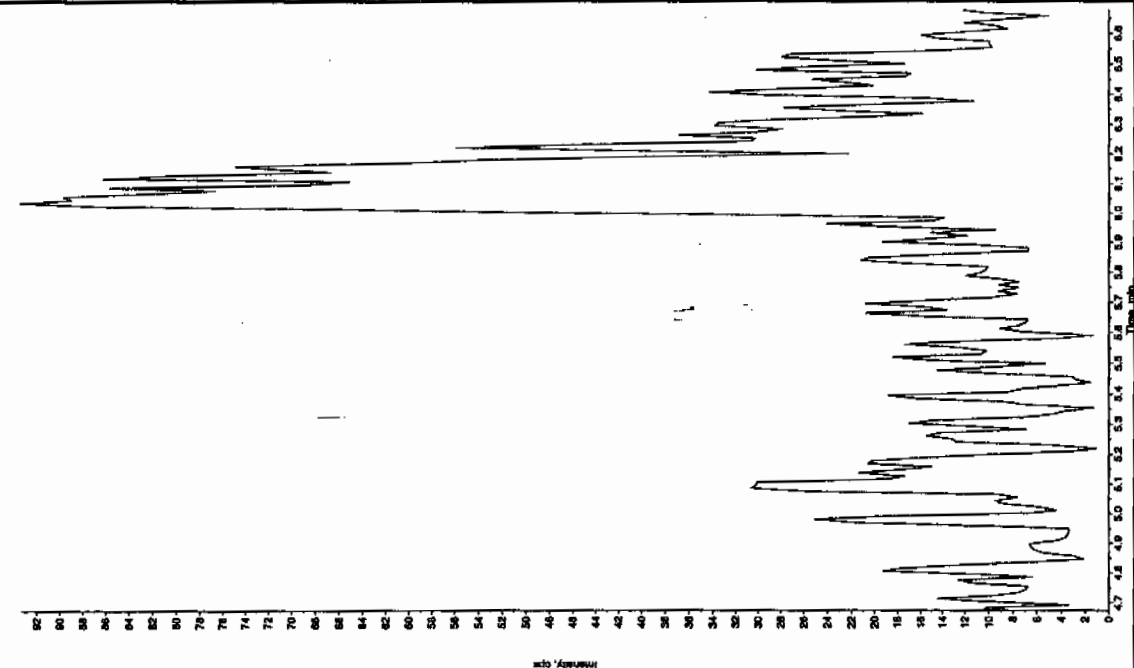
Sample Name: "245803007" Sample ID: "94708421ER" File: "EXS02120058.wif"  
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "389.1/81.0 amu"  
 Comment: "LCX632125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:21:33 AM  
 Modified: No



Sample Name: "245803007" Sample ID: "94708421ER" File: "EXS02120058.wif"  
 Peak Name: "24-Diamino-6-nitrothiouracil" Mass(es): "166.0/46.0 amu"  
 Comment: "LCX632125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:21:33 AM  
 Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8059

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803008

Sample Amount 2

Moisture: 7.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208178a

Date Analyzed: 12-FEB-10 05:48

Units: ug/kg

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

\*Concentration =

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

### Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYN\NEW\_EXP.PRO\DATA\EXP0208178a

Date: 12-Feb-2010

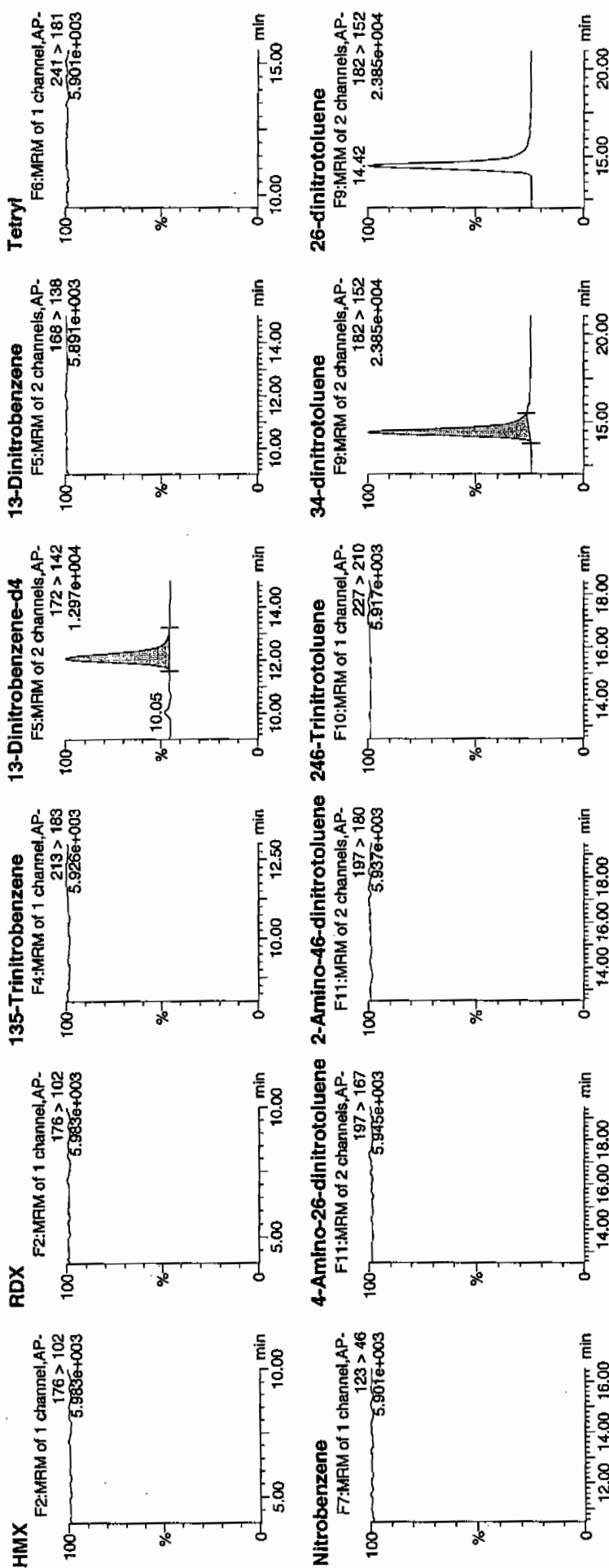
Time: 05:48:03

ID: 245803008

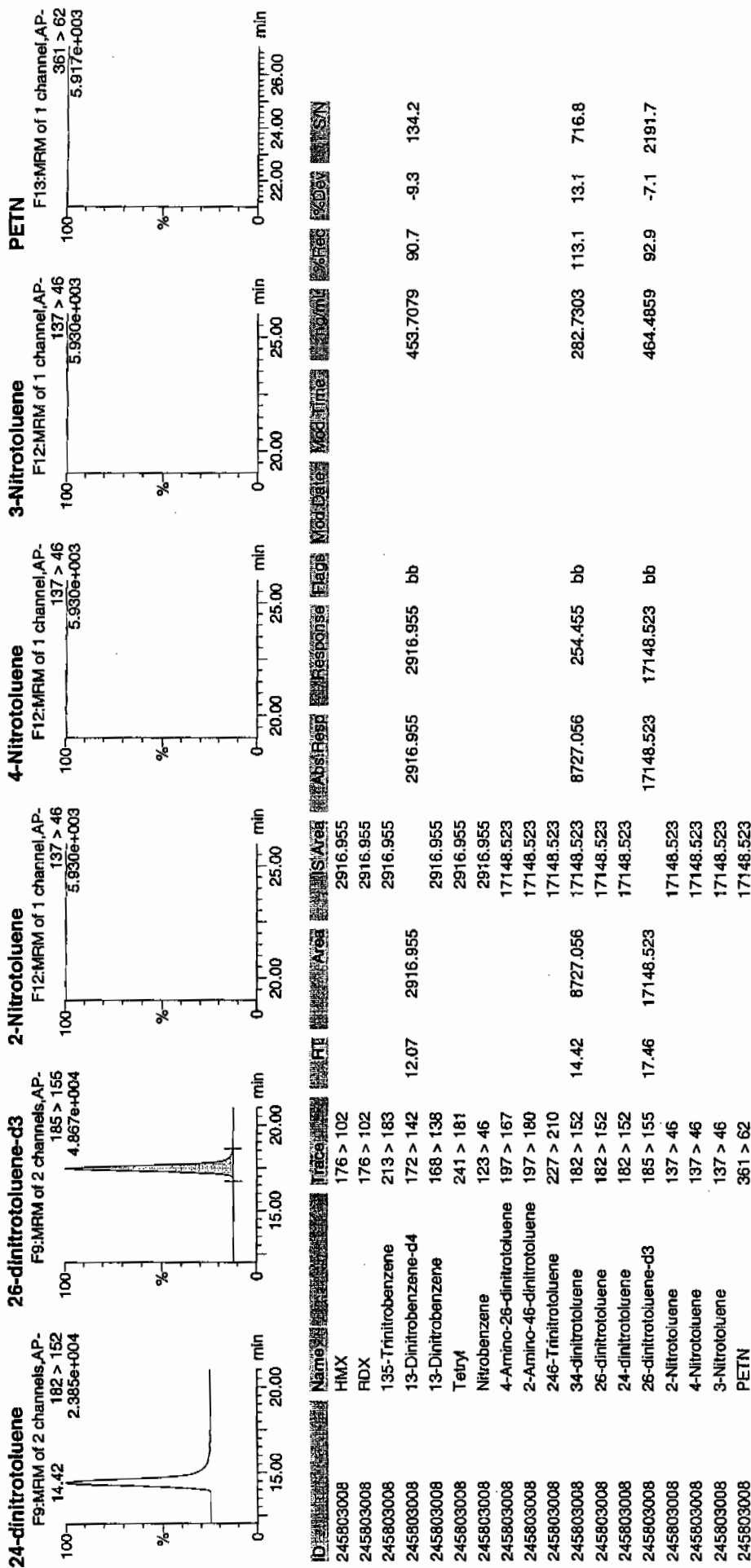
Vial: 4:3,F

2/12/10  
LHM

ANU 947084 / 2 / 2



10/11/2011



1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8059

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 245803008

Sample Amount 2

Moisture: 7.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120059.wiff

Date Analyzed: 13-FEB-10 02:37

Units: ug/kg

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

\*Concentration =

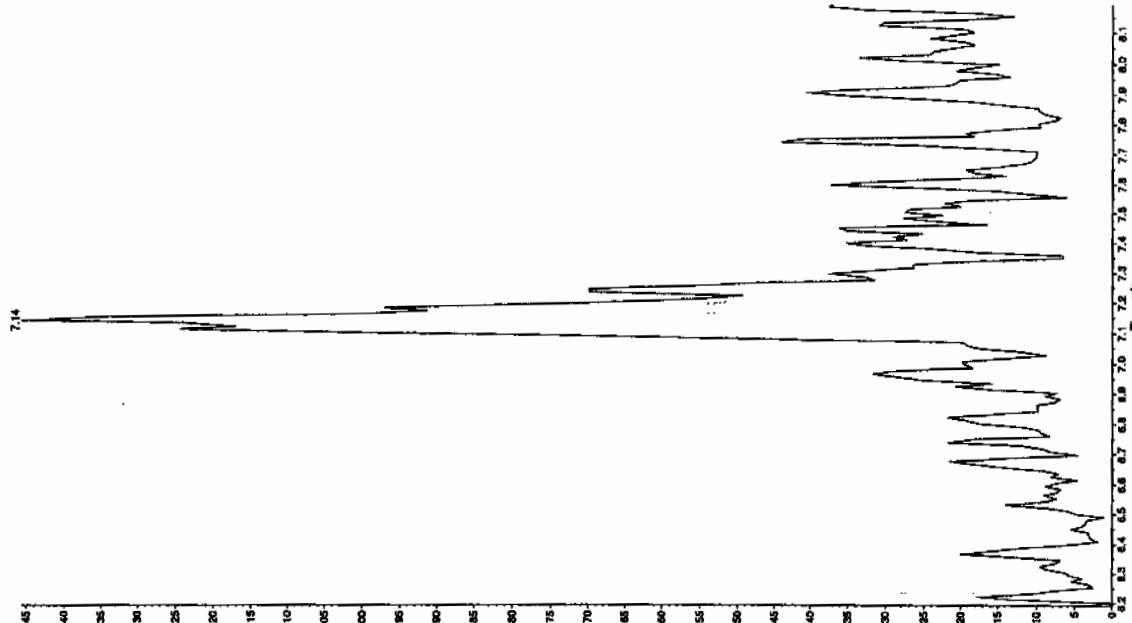
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor

Gen 2115110

Sample Name: "24560009" Sample ID: "9470421ER" File: "EX602120059.wif"  
 Peak Name: "TAIB" Mass(es): "257.2/204.9 amu"  
 Comment: "LCX03212S" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:37:16 AM  
 Modified: No

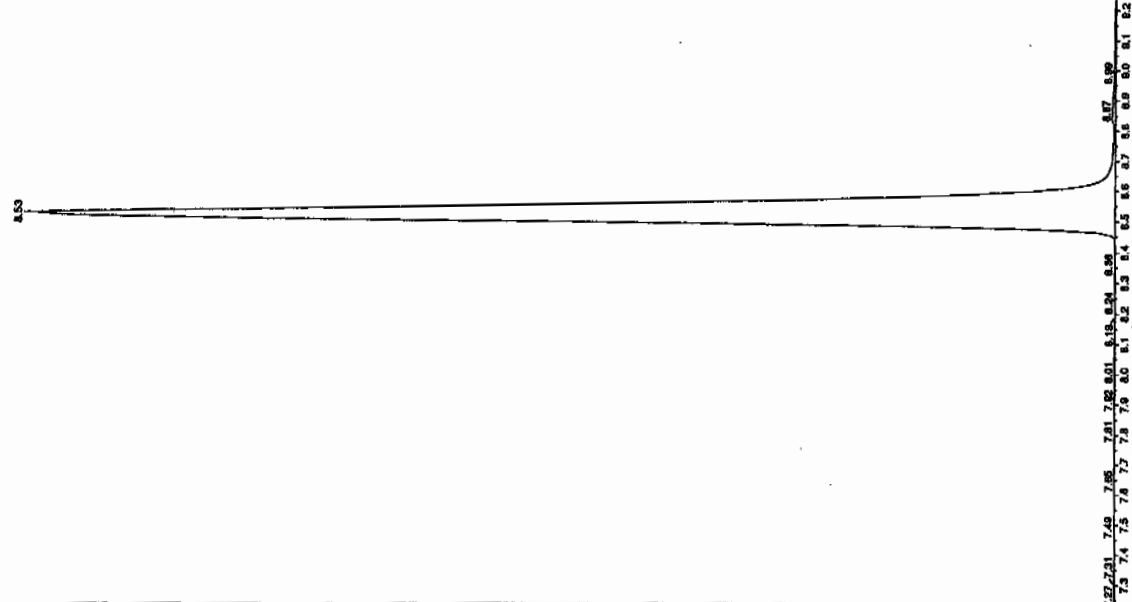
Intensity, cps



Sample Name: "24560009" Sample ID: "9470421ER" File: "EX602120059.wif"  
 Peak Name: "35-Deuterio" Mass(es): "182.0/180.0 amu"  
 Comment: "LCX03212S" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:37:16 AM  
 Modified: Yes

Intensity, cps



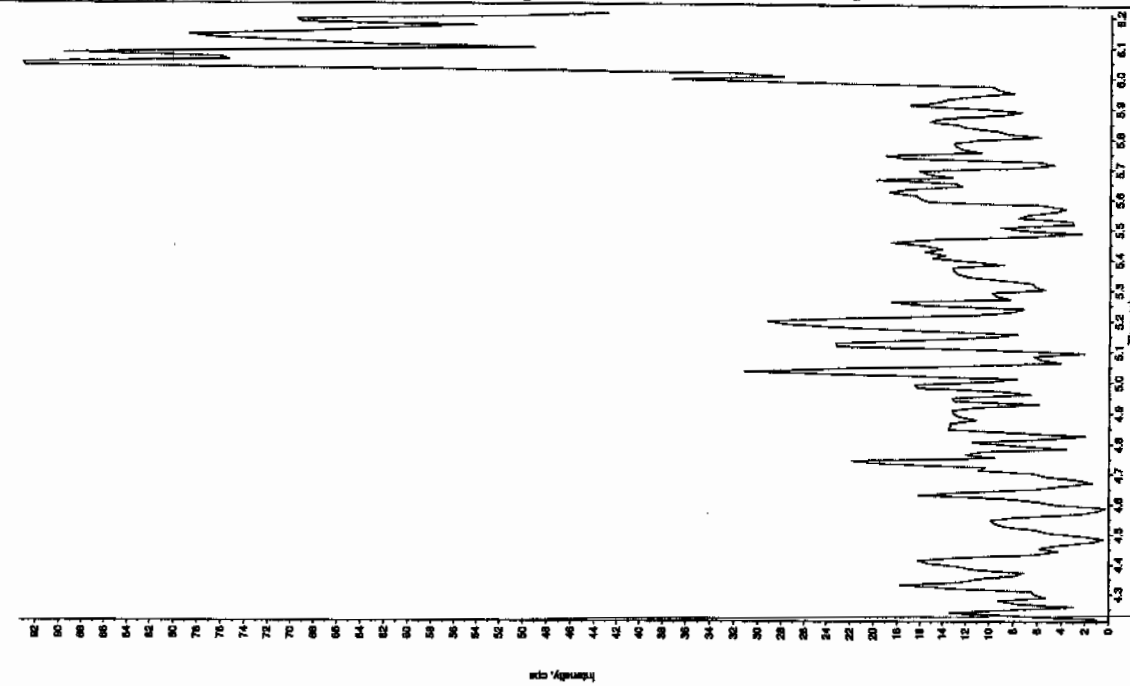
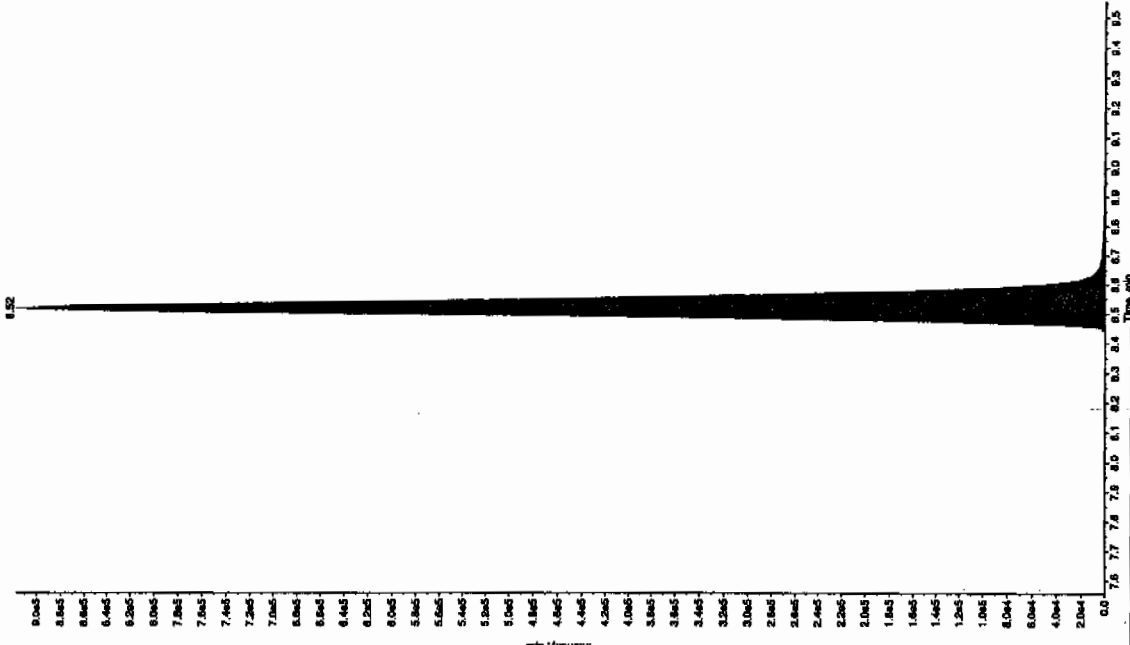
2/13/2010

Sample Name: "24583005" Sample ID: "947084121" File: "EX502120059.wif"  
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "188.046.0 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:37:16 AM  
 Modified: No

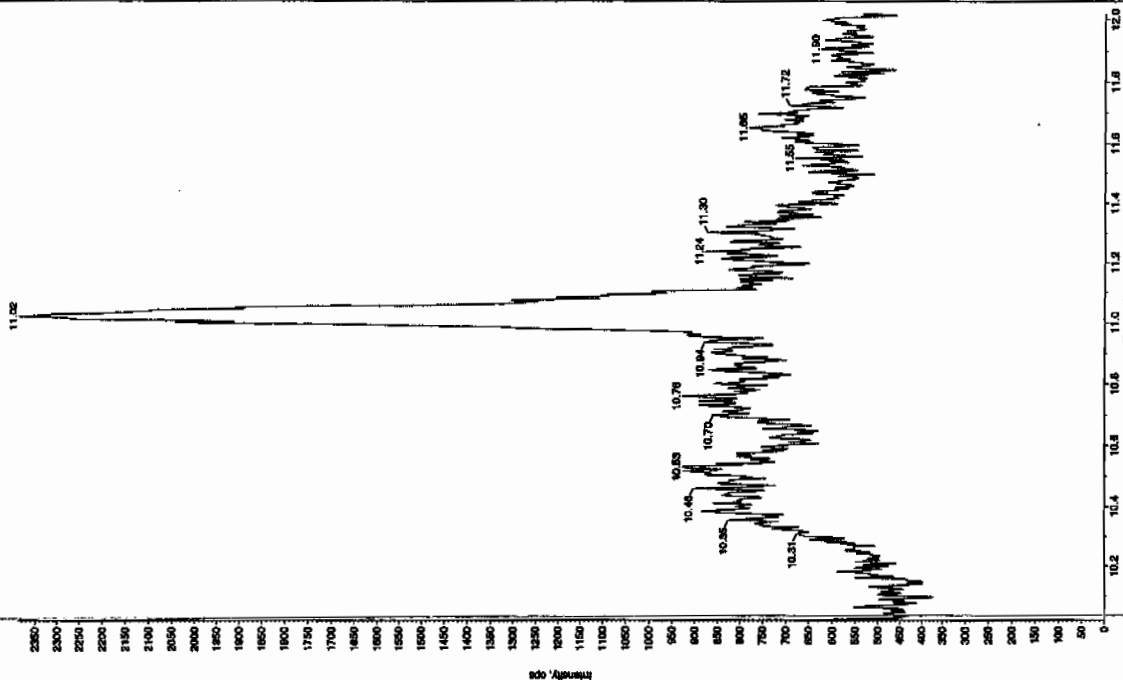
Sample Name: "24583005" Sample ID: "947084121" File: "EX502120059.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 333.  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:37:16 AM  
 Modified: No  
 Proc. Algorithm: Total Ion - ION  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.56 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.52 min  
 Area: 3.70e+006 counts  
 Height: 916869.507 cps  
 Start Time: 8.39 min  
 End Time: 8.97 min



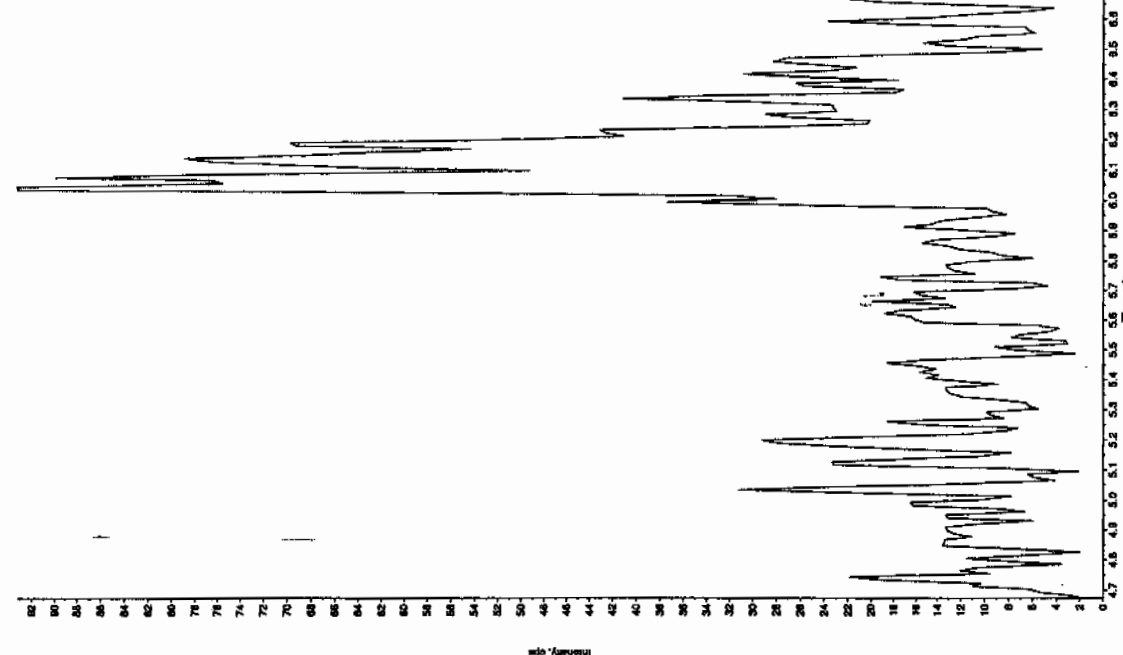
Sample Name: "245000008" Sample ID: "947084121" File: "EXS02120059.wif"  
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "359.10 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:37:15 AM  
 Modified: No



Sample Name: "245000008" Sample ID: "947084121" File: "EXS02120059.wif"  
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "156.046.0 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 2:37:16 AM  
 Modified: No





# STANDARDS DATA

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

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	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
MNX	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	na	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
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

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

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1473 Run Date: 08-FEB-10 12-FEB-10  
 Lab Code: GEL HPLC Column: Phenomenex Ultracarb 5 ODS(20)  
 LCMSMS Instrument ID: LCMSMS Method: 8321A Modified

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0208003a	EXP0208004a	EXP0208005a	EXP0208006a	EXP0208007a	EXP0208008a			
Data File:									
1,3,5-Trinitrobenzene	3.548	3.943	4.247	3.451	3.361	3.547	3.683	9.244	
1,3-Dinitrobenzene-d4	6.149	6.436	6.465	6.633	6.717	6.174	6.429	3.612	
2,4,6-Trinitrotoluene	.299	.308	.311	.323	.348	.347	0.323	6.431	
2,4-Dinitrotoluene	.243	.236	.232	.24	.256	.258	0.244	4.271	
2,6-Dinitrotoluene	1.071	1.092	1.008	1.066	1.112	1.095	1.074	3.4	
2,6-Dinitrotoluene-d3	34.376	37.613	37.768	39.993	37.032	34.734	36.919	5.669	
2-Amino-4,6-dinitrotoluene	.361	.359	.391	.411	.422	.432	0.396	7.897	
3,4-Dinitrotoluene	.793	.884	.838	.907	.976	1	0.900	8.794	
4-Amino-2,6-dinitrotoluene	.279	.278	.264	.289	.311	.303	0.287	6.027	
HMX	3.402	3.005	4.021	3.584	3.432	3.392	3.473	9.511	
Nitrobenzene	.773	.761	.821	.856	.825	.812	0.808	4.332	
RDX	2.405	2.171	2.783	2.361	2.379	2.47	2.428	8.269	
m-Dinitrobenzene	1.257	1.065	1.193	1.226	1.214	1.259	1.202	5.994	
m-Nitrotoluene	.103	.107	.082	.087	.09	.089	0.093	10.689	
o-Nitrotoluene	.173	.148	.144	.152	.156	.157	0.155	6.405	
p-Nitrotoluene	.071	.091	.069	.074	.076	.075	0.076	10.145	

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: 10-1473

Lab Code: GEL

Run Date: 08-FEB-10 12-FEB-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

Calibration Level:	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Data File:	EXP0208003a	EXP0208004a	EXP0208005a	EXP0208006a	EXP0208007a	EXP0208008a					
Parname:											
PETN	1686.42	3643.3	12841.7	23262.7	39238.6	44182	1.544	-0002977	21.056	.9994	
Tetryl	213.659	359.657	1210.76	2567.13	4763.44	5400.44	.962	-0000981	8.004	.9996	

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

COD is Coefficient of Determination

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

\* Values outside of QC Limit

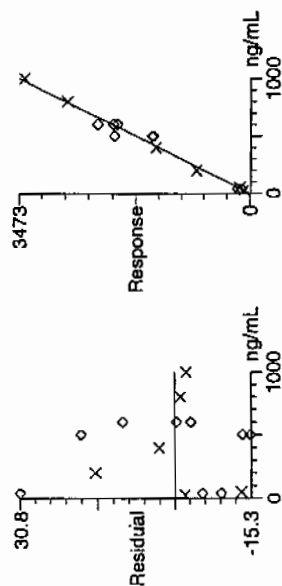
# Quantify Calibration Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

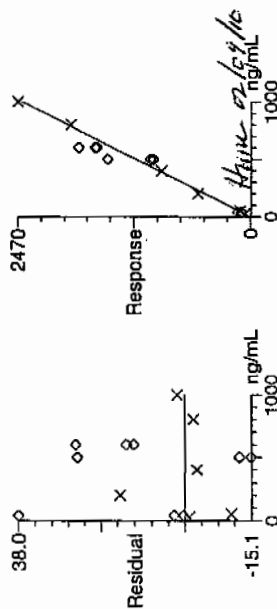
Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Method: C:\MASSLYNX\New\_Exp.PRO\MethDB\020810expa.mdb, Time: Tue Feb 09 09:17:48 2010  
Calibration: Untitled, Time: Tue Feb 09 10:19:05 2010

Compound name: HMX  
Response Factor: 3.4728  
RRF SD: 0.330307, % Relative SD: 9.51126  
Response type: Internal Std (Ref 4), Area \* (IS Conc. / IS Area)  
Curve type: RF



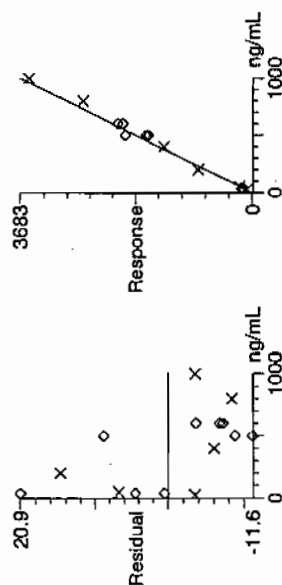
Compound name: RDX  
Response Factor: 2.42814  
RRF SD: 0.200785, % Relative SD: 8.26908  
Response type: Internal Std (Ref 4), Area \* (IS Conc. / IS Area)  
Curve type: RF



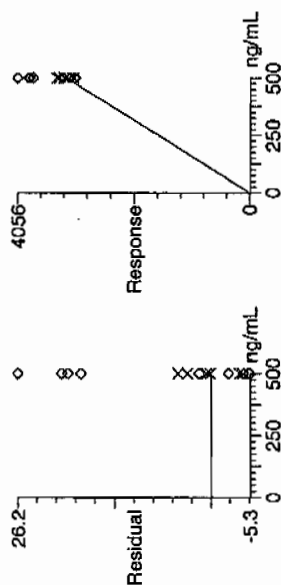
**Quantify Calibration Report**  
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Compound name: 135-Trinitrobenzene  
 Response Factor: 3.68306  
 RRF SD: 0.340458, % Relative SD: 9.2439  
 Response type: Internal Std (Ref 4), Area \* (IS Conc. / IS Area)  
 Curve type: RF



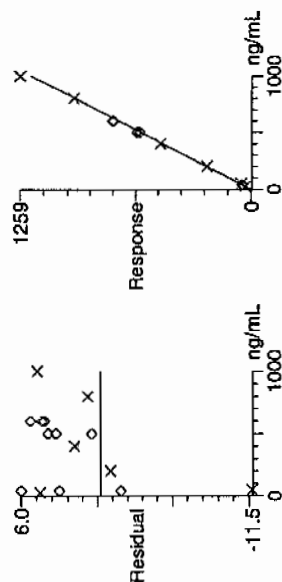
Compound name: 13-Dinitrobenzene-d4  
 Response Factor: 6.42915  
 RRF SD: 0.232214, % Relative SD: 3.6119  
 Response type: External Std, Area  
 Curve type: RF



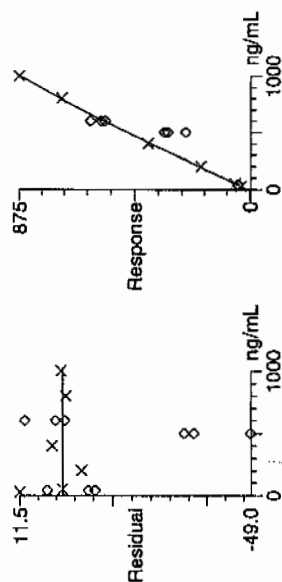
**Quantify Calibration Report**  
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Compound name: 13-Dinitrobenzene  
 Response Factor: 1.2024  
 RRF SD: 0.0720671, % Relative SD: 5.99362  
 Response type: Internal Std (Ref 4), Area \* (IS Conc. / IS Area)  
 Curve type: RF



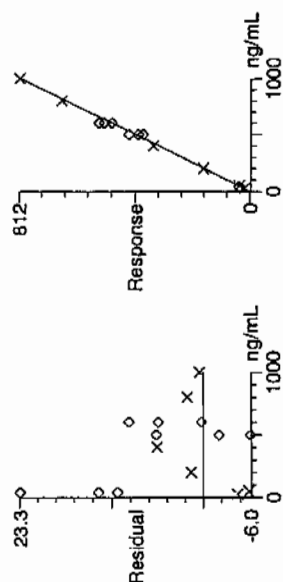
Compound name: Tetral  
 Coefficient of Determination: 0.999624  
 Calibration curve:  $-9.80877e-005 * x^2 + 0.962233 * x + 8.00395$   
 Response type: Internal Std (Ref 4), Area \* (IS Conc. / IS Area)  
 Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



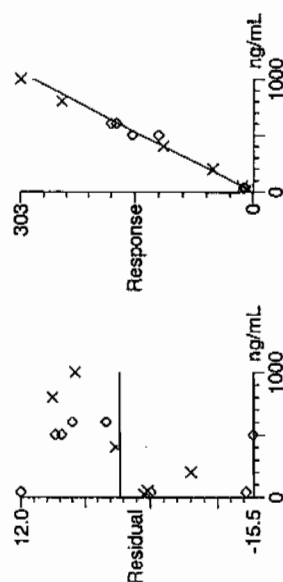
**Quantify Calibration Report**  
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Compound name: Nitrobenzene  
Response Factor: 0.807771  
RRF SD: 0.034992, % Relative SD: 4.33192  
Response type: Internal Std ( Ref 4 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF



Compound name: 4-Amino-26-dinitrotoluene  
Response Factor: 0.287245  
RRF SD: 0.0173125, % Relative SD: 6.02707  
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF

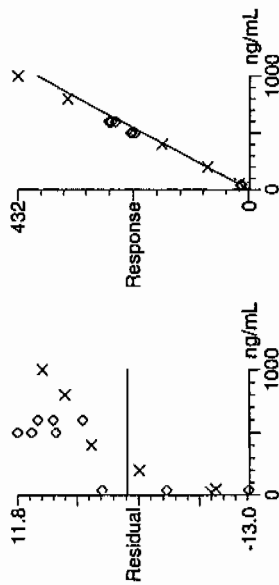




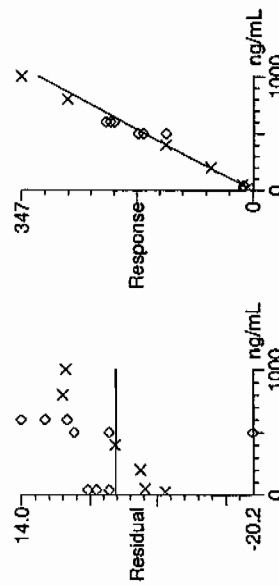
**Quantify Calibration Report**  
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Compound name: 2-Amino-46-dinitrotoluene  
 Response Factor: 0.39603  
 RRF SD: 0.0312733, % Relative SD: 7.8967  
 Response type: Internal Std (Ref 14), Area \* (IS Conc. / IS Area)  
 Curve type: RF



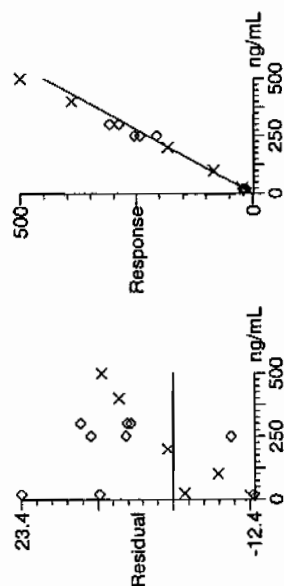
Compound name: 246-Trinitrotoluene  
 Response Factor: 0.322663  
 RRF SD: 0.0207501, % Relative SD: 6.43088  
 Response type: Internal Std (Ref 14), Area \* (IS Conc. / IS Area)  
 Curve type: RF



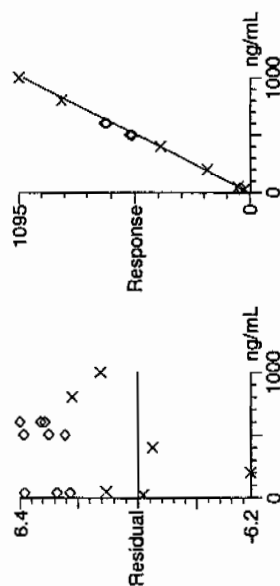
# Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Compound name: 34-dinitrotoluene  
Response Factor: 0.899992  
RRF SD: 0.0791463, % Relative SD: 8.79411  
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF



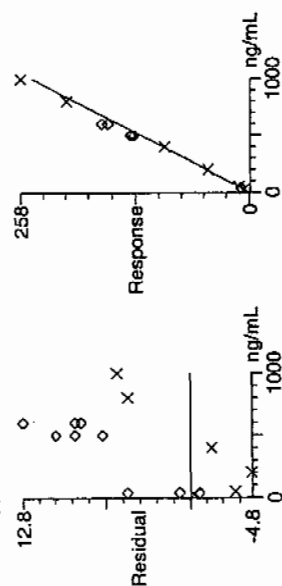
Compound name: 26-dinitrotoluene  
Response Factor: 1.07409  
RRF SD: 0.0365192, % Relative SD: 3.40002  
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF



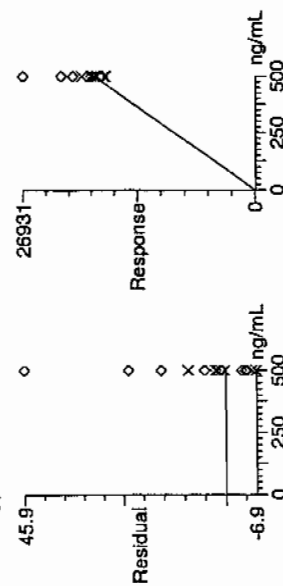
# Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Compound name: 24-dinitrotoluene  
Response Factor: 0.244052  
RRF SD: 0.010423, % Relative SD: 4.27082  
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF



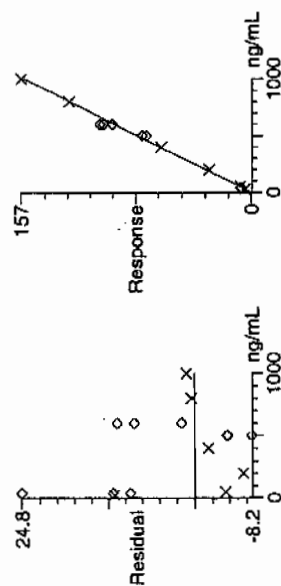
Compound name: 26-dinitrotoluene-d3  
Response Factor: 36.9194  
RRF SD: 2.09302, % Relative SD: 5.66917  
Response type: External Std, Area  
Curve type: RF



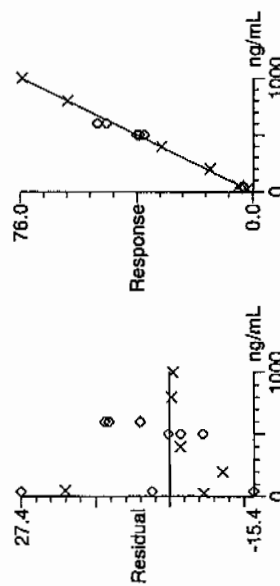
**Quantify Calibration Report**  
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Compound name: 2-Nitrotoluene  
 Response Factor: 0.155048  
 RRF SD: 0.00993156, % Relative SD: 6.40546  
 Response type: Internal Std (Ref 14), Area \* (IS Conc. / IS Area)  
 Curve type: RF



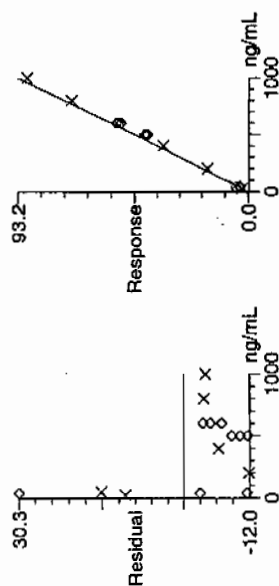
Compound name: 4-Nitrotoluene  
 Response Factor: 0.0760026  
 RRF SD: 0.00771034, % Relative SD: 10.1448  
 Response type: Internal Std (Ref 14), Area \* (IS Conc. / IS Area)  
 Curve type: RF



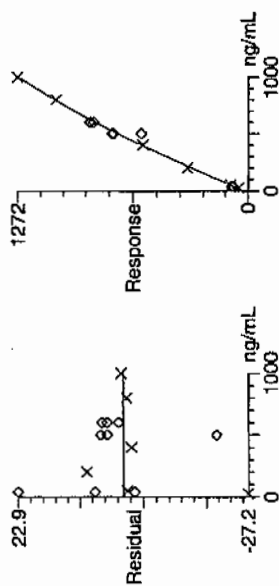
**Quantify Calibration Report**  
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA.qtd, Time: Tue Feb 09 10:19:05 2010

Compound name: 3-Nitrotoluene  
 Response Factor: 0.0931713  
 RRF SD: 0.009588, % Relative SD: 10.6887  
 Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF



Compound name: PETN  
 Coefficient of Determination: 0.999420  
 Calibration curve:  $-0.000297734 * x^2 + 1.54409 * x + 21.0556$   
 Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
 Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0208010a

Analysis Date: 08-FEB-10 19:10

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	620.504	103	
RDX	600	679.292	113	
Tetryl	600	611.62	102	
m-Dinitrobenzene	600	625.274	104	
m-Nitrotoluene	600	570.29	95	
o-Nitrotoluene	600	651.604	109	
p-Nitrotoluene	600	672.143	112	
1,3,5-Trinitrobenzene	600	577.44	96	
1,3-Dinitrobenzene-d4	500	477.774	96	
2,4,6-Trinitrotoluene	600	643.695	107	
2,4-Dinitrotoluene	600	652.405	109	
2,6-Dinitrotoluene	600	631.529	105	
2,6-Dinitrotoluene-d3	500	481.745	96	
2-Amino-4,6-dinitrotoluene	600	657.981	110	
3,4-Dinitrotoluene	300	321.546	107	
4-Amino-2,6-dinitrotoluene	600	609.28	102	
HMX	600	598.223	100	
Nitrobenzene	600	634.828	106	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208010a

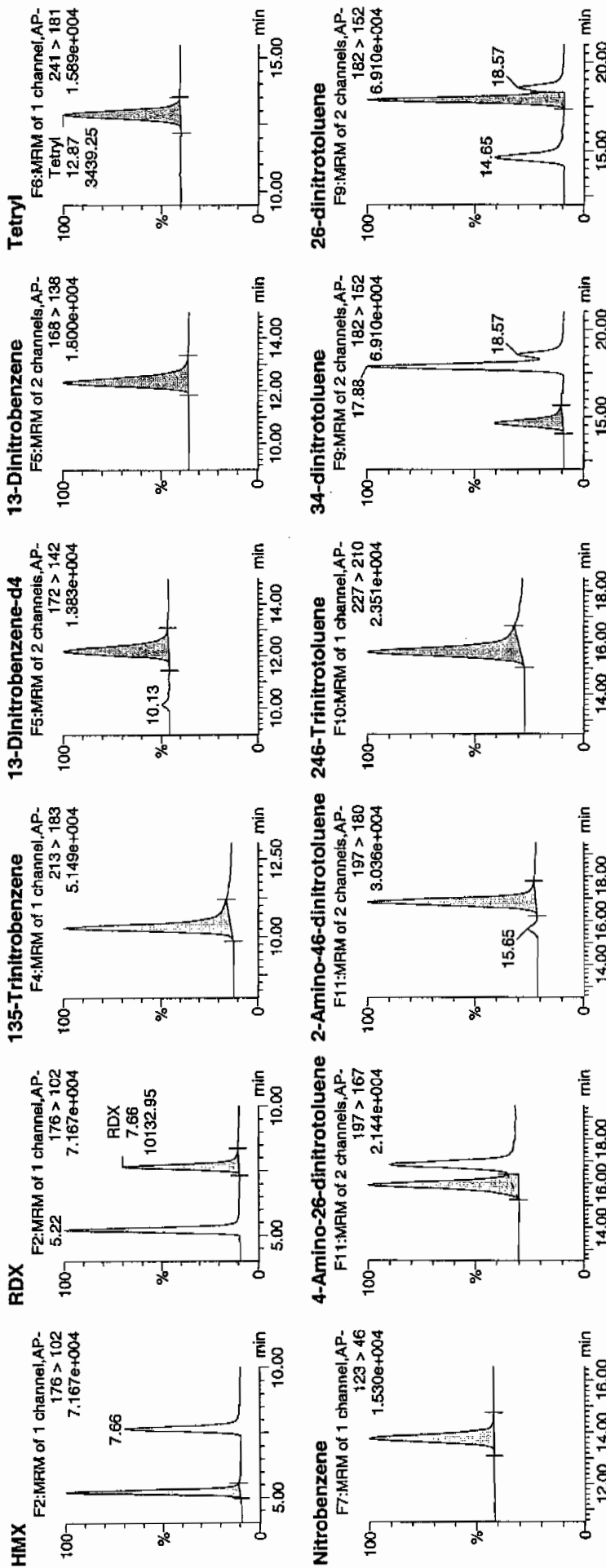
Date: 08-Feb-2010

Time: 19:10:05

ID: WXX100208-07ICV

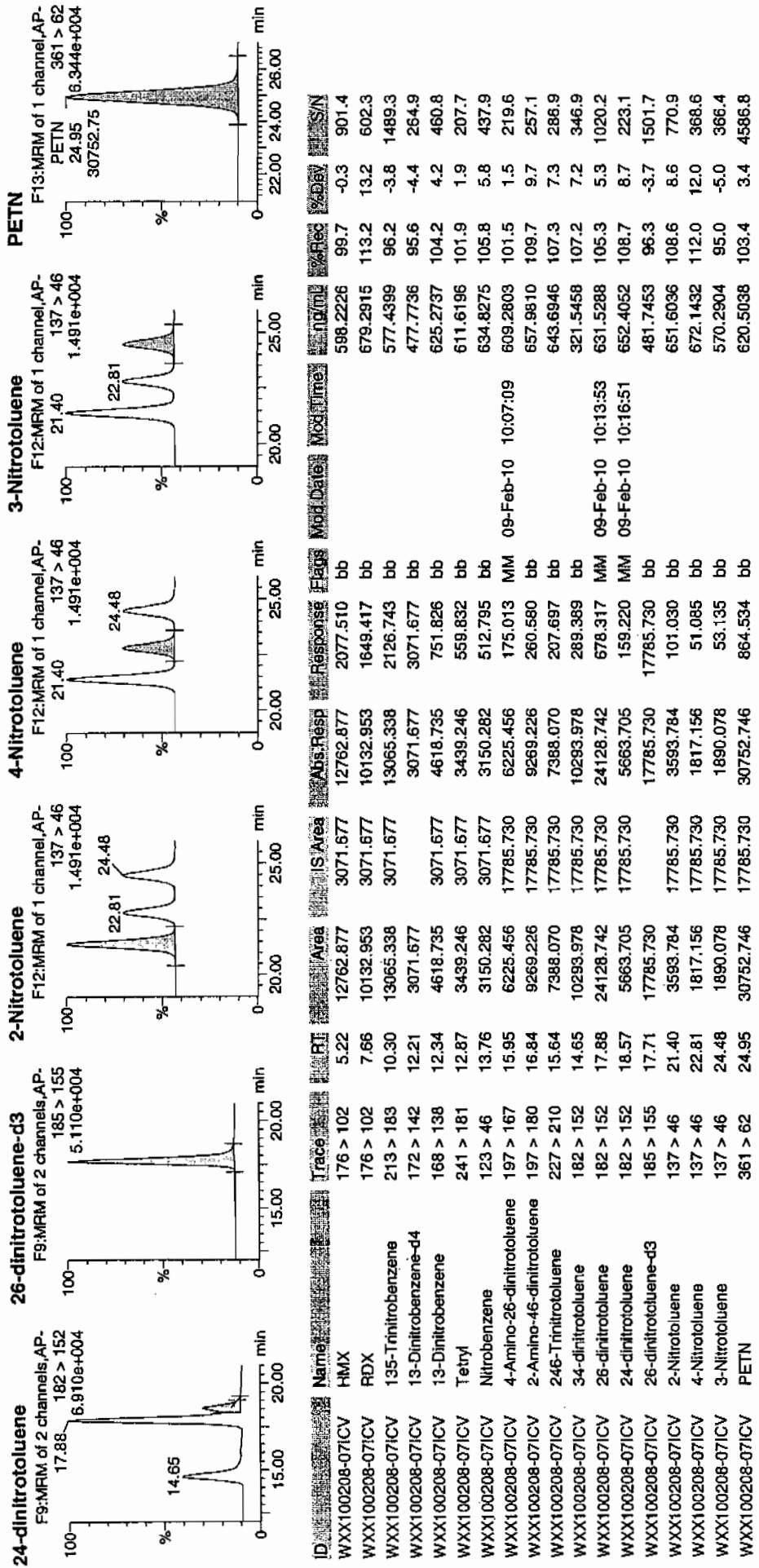
Vial: 1:1,B

2/9/10  
MAY



2/11/2010

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010





# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/08/10  
 Time of Injection: 1910  
 Standard Number: WXX100208-07ICV  
 Data File: EXP0208010a

HMX	99.7
RDX	113.2
135-TNB	96.2
13-DNB	104.2
Tetryl	101.9
Nitrobenzene	105.8
4A-26-DNT	101.5
2A-46-DNT	109.7
246-TNT	107.3
34-DNT(surr)	107.2
26-DNT	105.3
24-DNT	108.7
2-NT	108.6
4-NT	112.0
3-NT	95.0
PETN	103.4

101.7  
2/9/10

Total 1679.7

Average 105.0

101.7 on 2/9/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Form 6

# Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1473

Lab Code: GEL

Run Date: 08-FEB-10.12-FEB-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:	EXS02120003.wiff	EXS02120004.wiff	EXS02120005.wiff	EXS02120006.wiff	EXS02120007.wiff	EXS02120008.wiff	EXS02120009.wiff					
Parname:												
2,4-Diamino-6-nitrotoluene	70300	155000	435000	786000	1200000	1300000	2670000	32500	1480	-0.083	.9967	
2,6-Diamino-4-nitrotoluene	130000	254000	568000	1130000	1350000	2020000	3700000	58200	1980	-0.081	.998	
3,4-Dinitrotoluene	302000	562000	1330000	2620000	4150000	5060000	9080000	-42100	12300	-3.22	.9965	
3,5-Dinitroaniline	290000	553000	1400000	2810000	3970000	5200000	9360000	2990	5750	-5.36	.9999	
TATB	63500	124000	308000	586000	887000	1120000	2160000	8660	1190	-0.055	.9999	
tris(o-cresyl) phosphate	1230000	2420000	5590000	10700000	15300000	19400000	31800000	137000	22800	-3.48	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

021210ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	8.66e+003			
a1	1.19e+003			
a2	-0.0548			
Correlation coefficient 0.9999				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	2.99e+003			
a1	5.75e+003			
a2	-0.536			
Correlation coefficient 0.9999				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-4.21e+004			
a1	1.23e+004			
a2	-3.22			
Correlation coefficient 0.9965				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	5.82e+004			
a1	1.98e+003			
a2	-0.0811			
Correlation coefficient 0.9980				
Use Area				

*Don 2/15/10*

*Amey 2/10/10*

021210ICAL

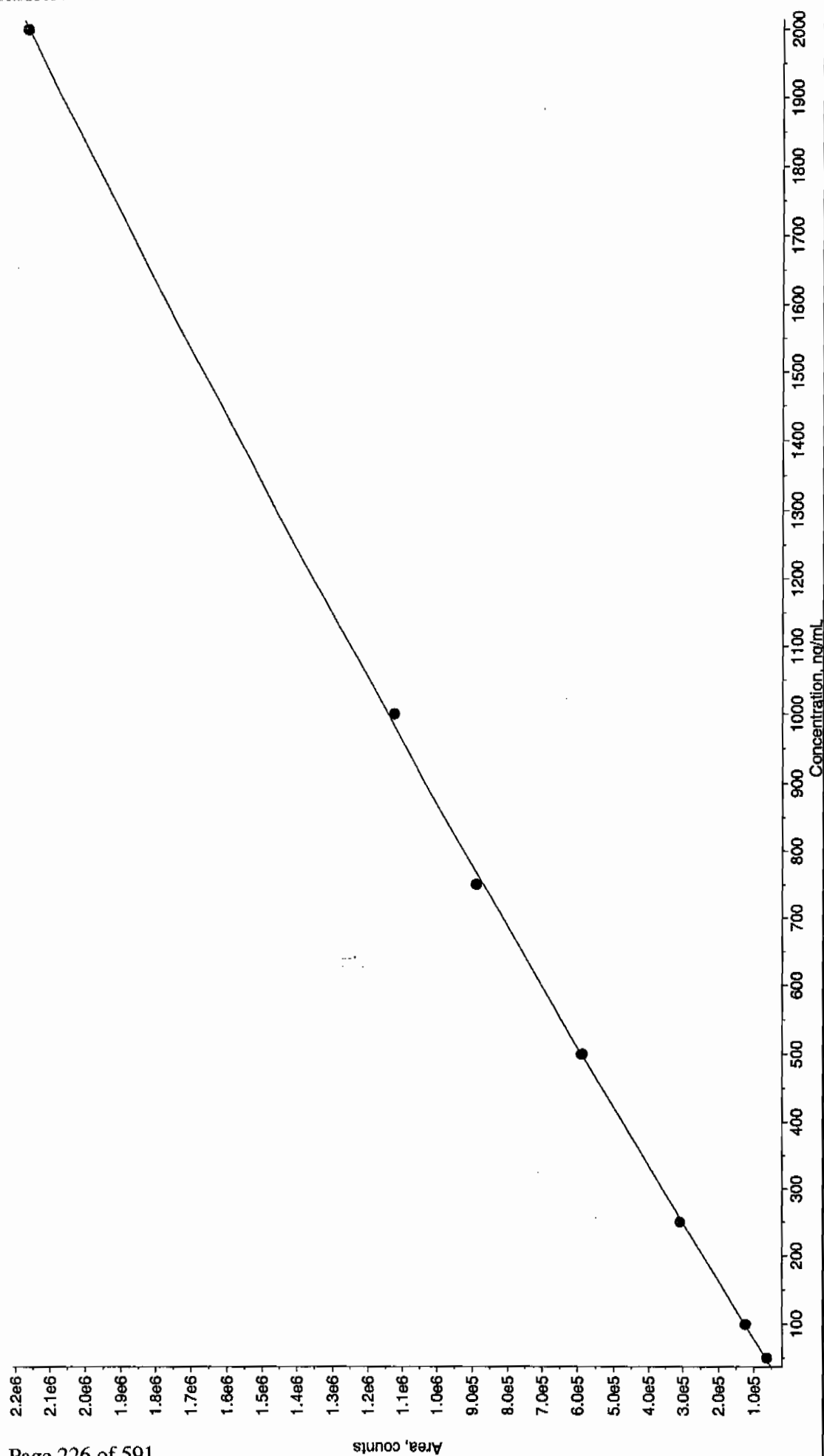
Peak Name: 24-Diamino-6-nitrotoluene  
No Internal Standard  
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	3.25e+004			
a1	1.48e+003			
a2	-0.0825			
Correlation coefficient 0.9967				
Use Area				

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

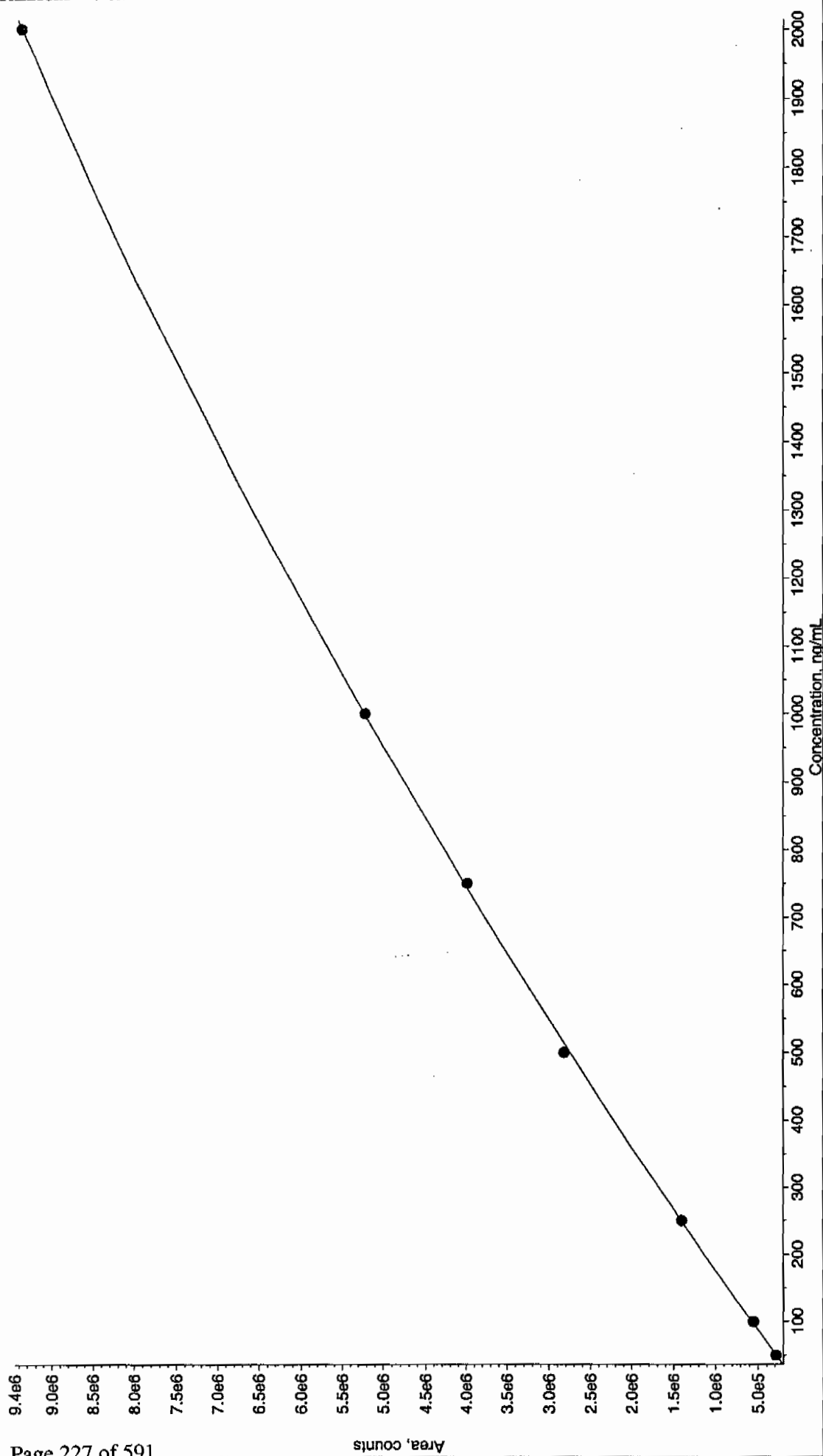
Fit	Quadratic	Weighting	None	Iterate No
a0	1.37e+005			
a1	2.28e+004			
a2	-3.48			
Correlation coefficient 1.0000				
Use Area				

021210.rdb (TATB): "Quadratic" Regression ("No" weighting):  $y = -0.0548 x^2 + 1.19e+003 x + 8.66e+003$  ( $r = 0.9999$ )



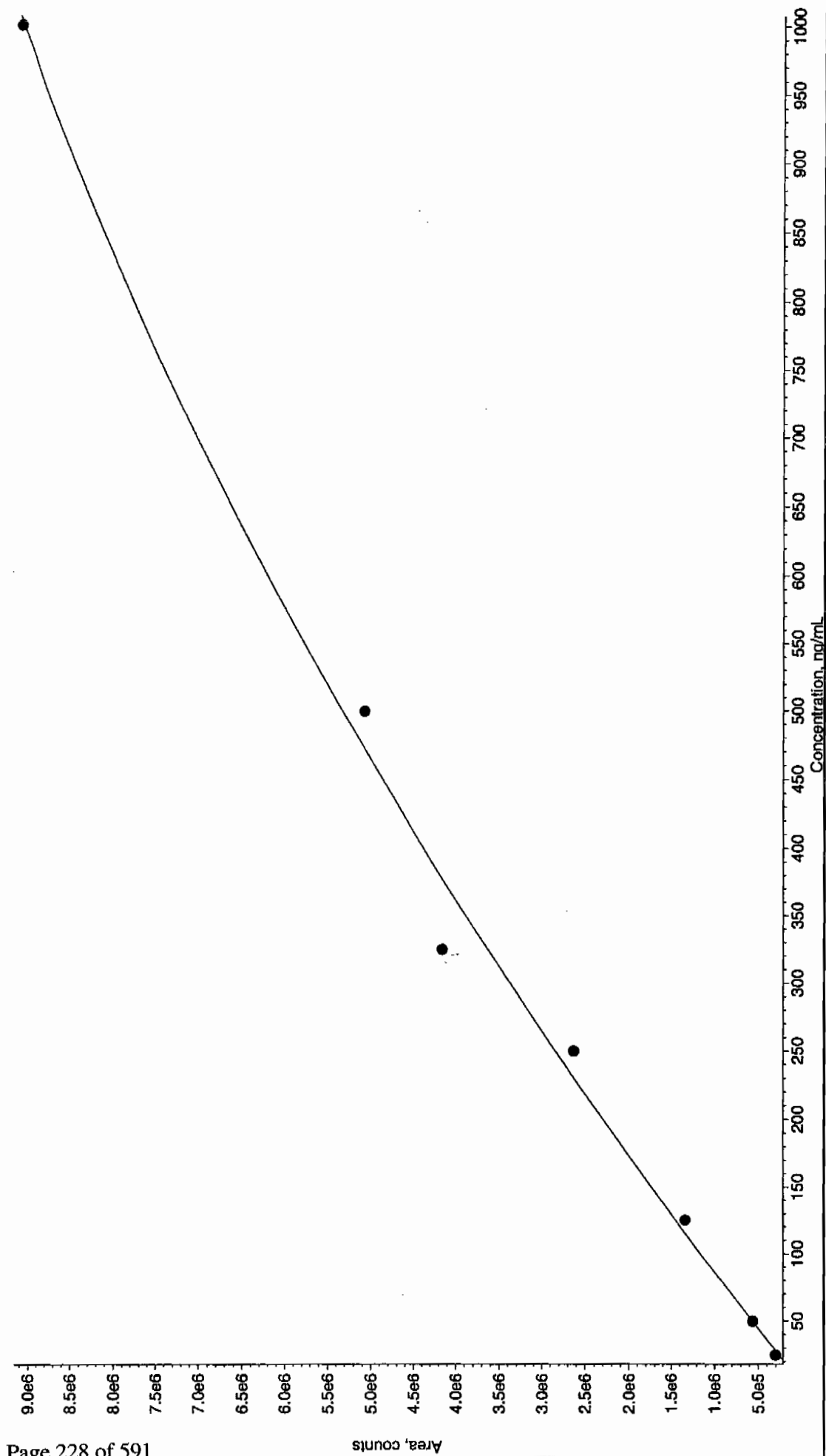
\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

021210.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting):  $y = -0.536 x^2 + 5.75e+003 x + 2.99e+003$  ( $r = 0.9999$ )



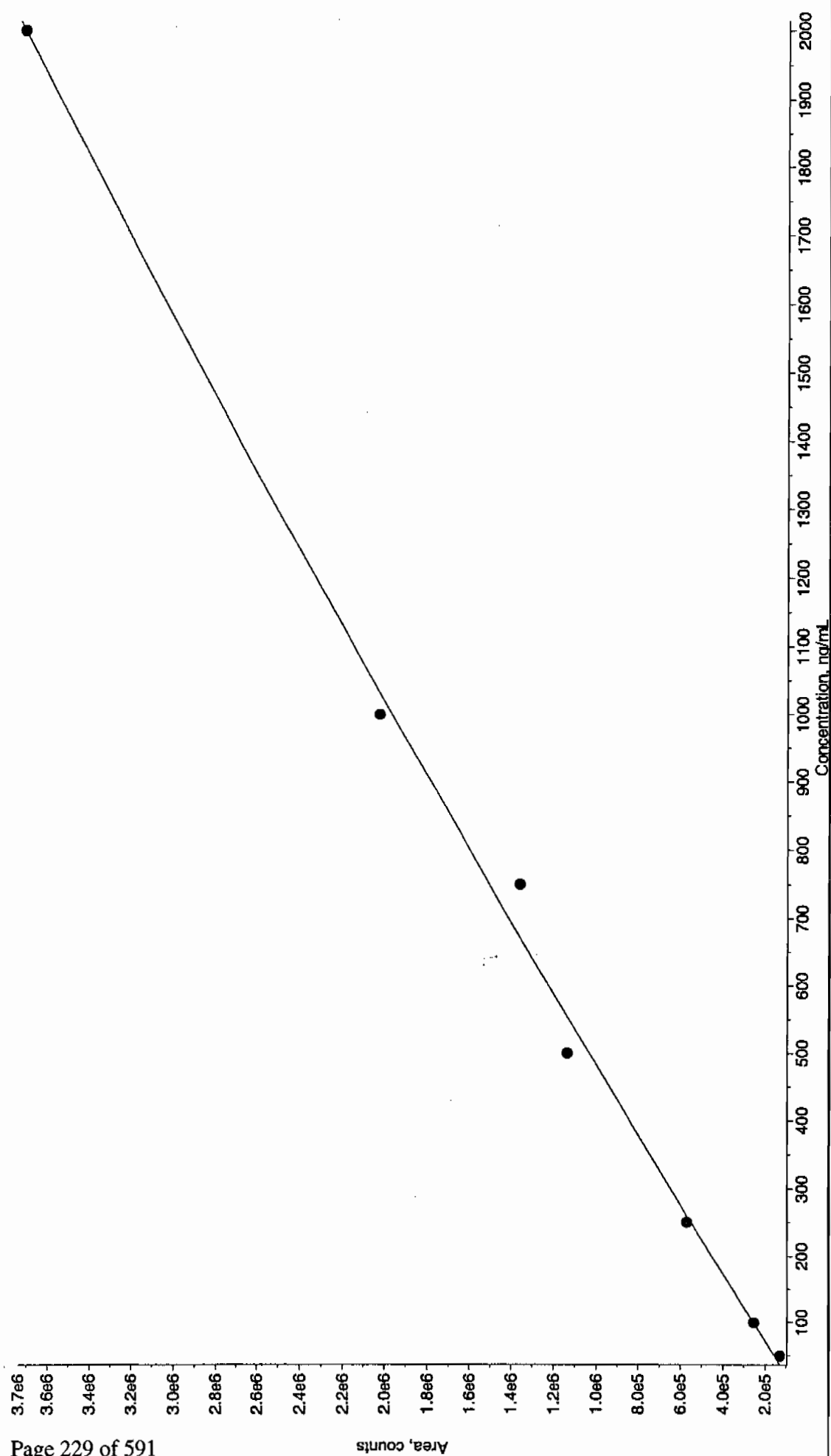
\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

021210.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting):  $y = -3.22 \times 10^{-4} x^2 + 1.23 \times 10^{-4} x + -4.21 \times 10^4$  ( $r = 0.9965$ )



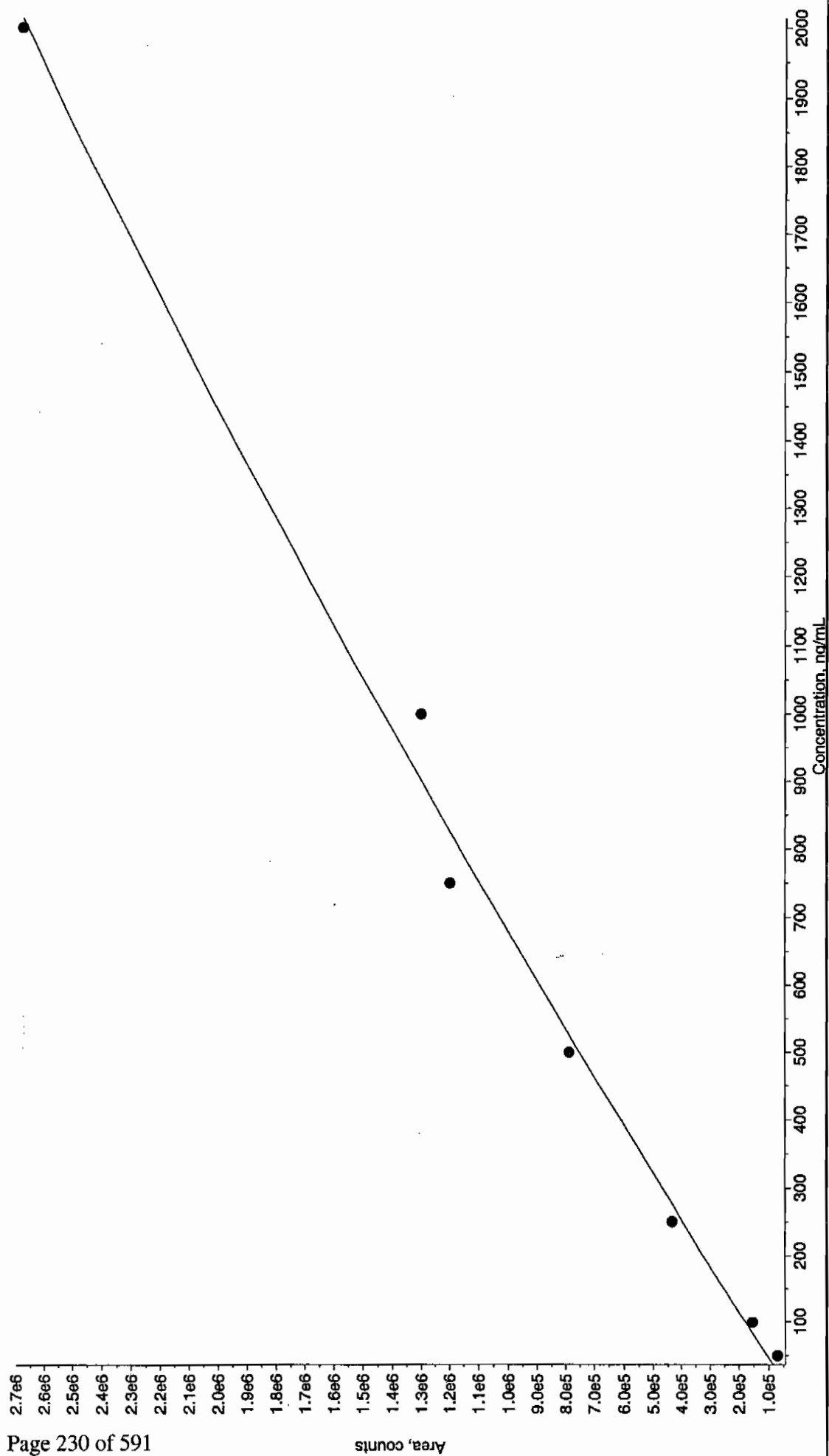
\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

021210.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting):  $y = -0.0811 x^2 + 1.98e+003 x + 5.82e+004$  ( $r = 0.9980$ )

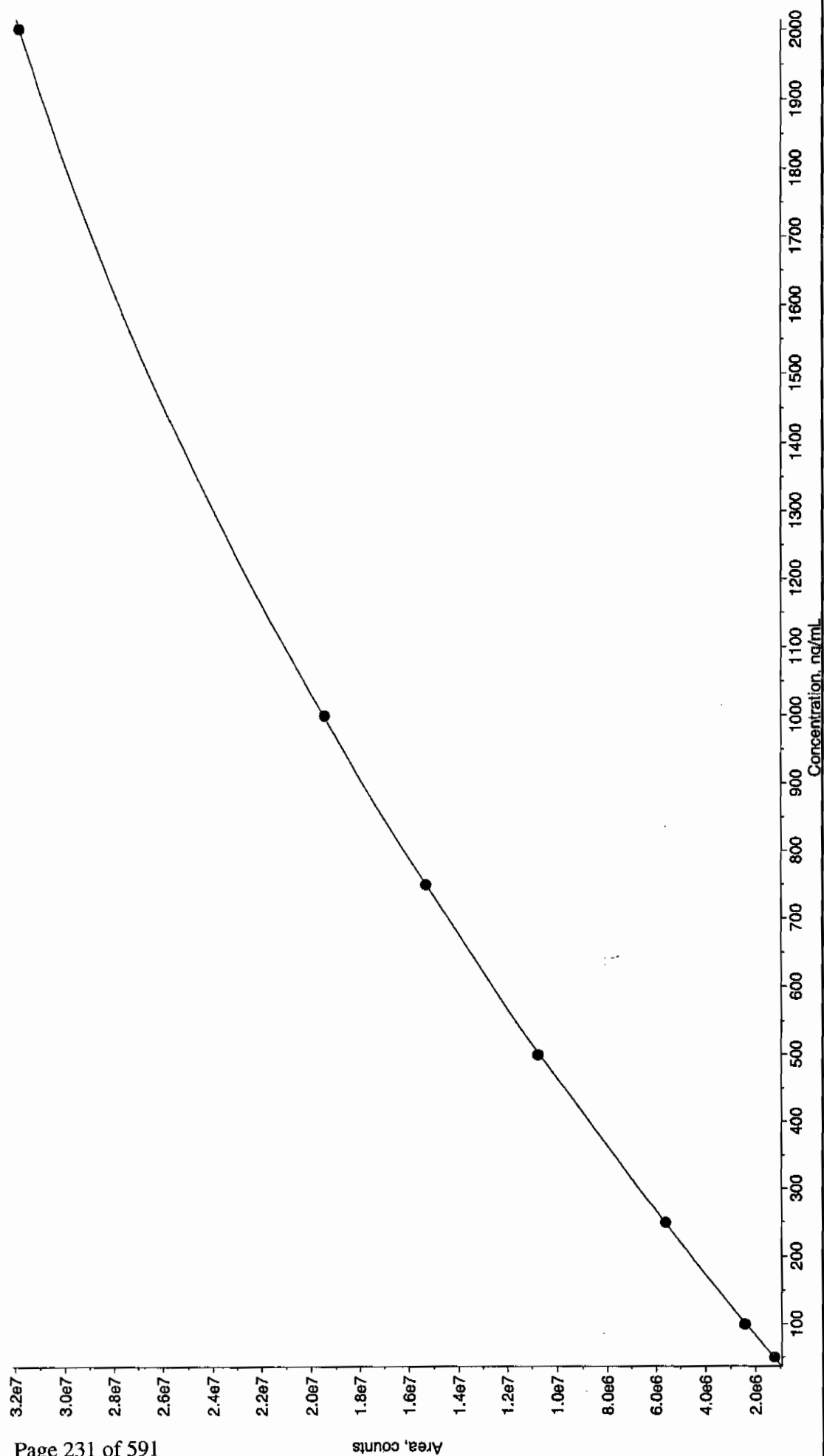




021210.rdb (24-Diamino-6-nitrotoluene): "No" weighting):  $y = -0.0825 x^2 + 1.48e+003 x + 3.25e+004$  ( $r = 0.9967$ )



021210.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting):  $y = -3.48 x^2 + 2.28e+004 x + 1.37e+005$  ( $r = 1.0000$ )



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

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS02120011.wiff

Analysis Date: 12-FEB-10 14:03

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	433	87	
2,6-Diamino-4-nitrotoluene	500	480	96	
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	488	98	
TATB	500	449	90	
tris(o-cresyl) phosphate	500	486	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%

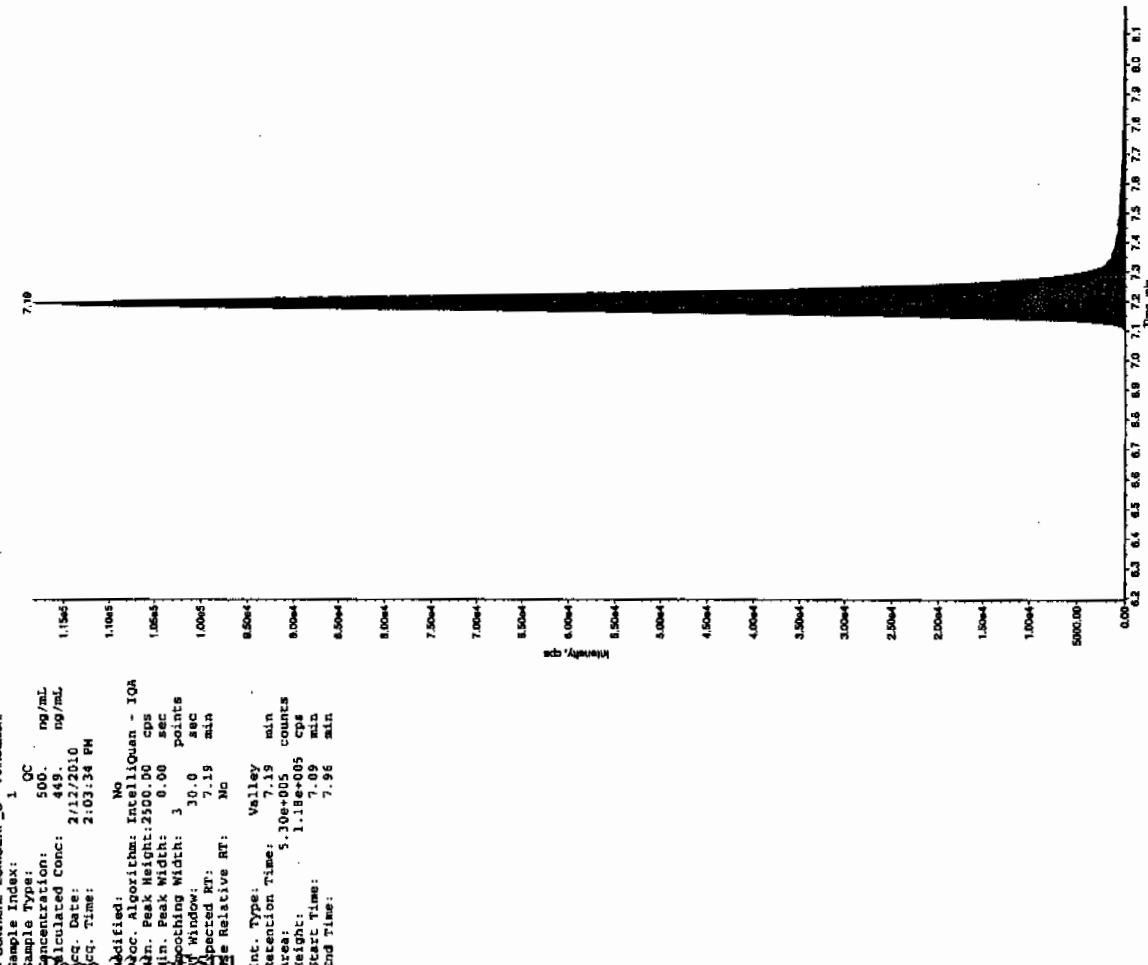
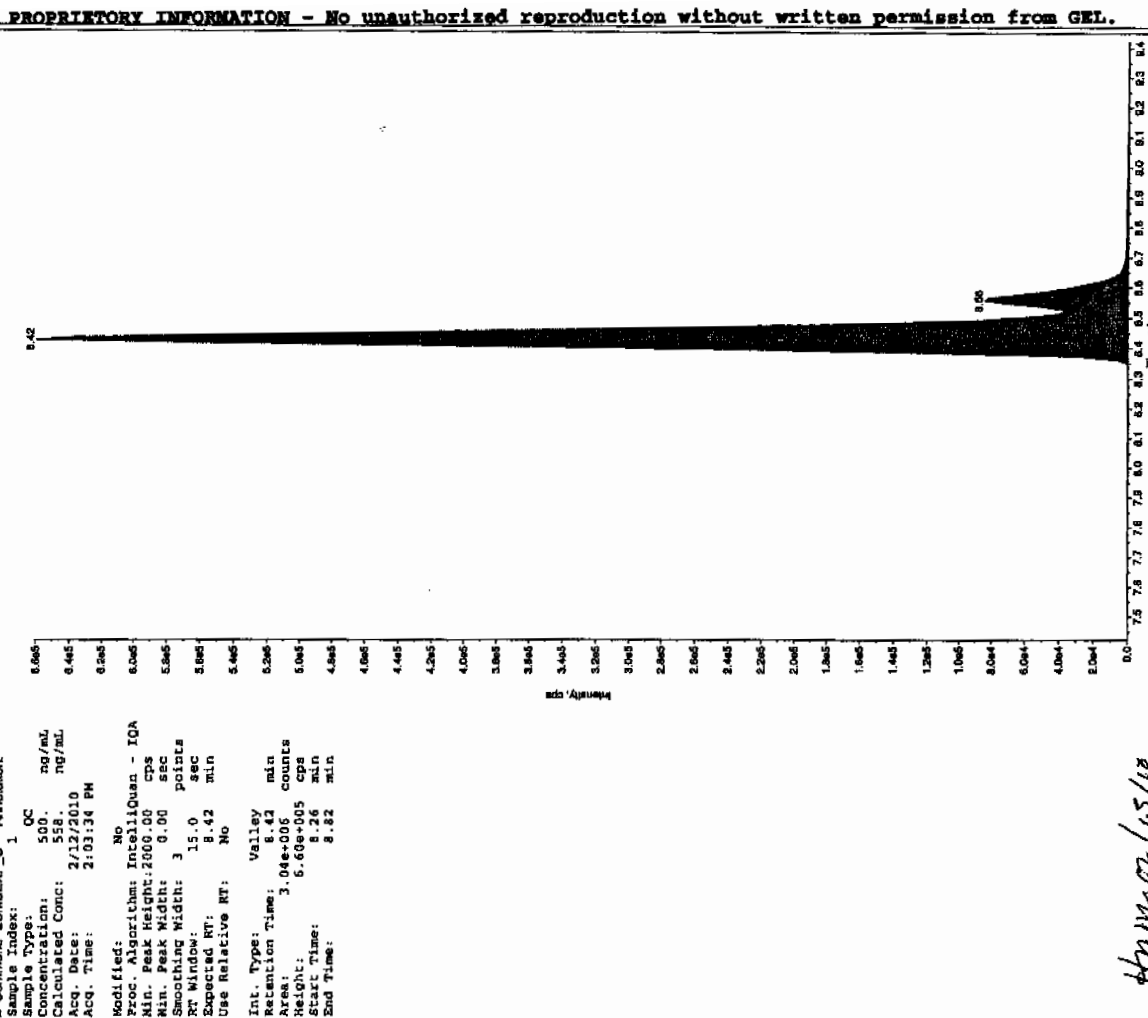
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 21/5/10

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "WXX100212-260V" Sample ID: "JULIF" File: "EXS02120011.wif"  
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""



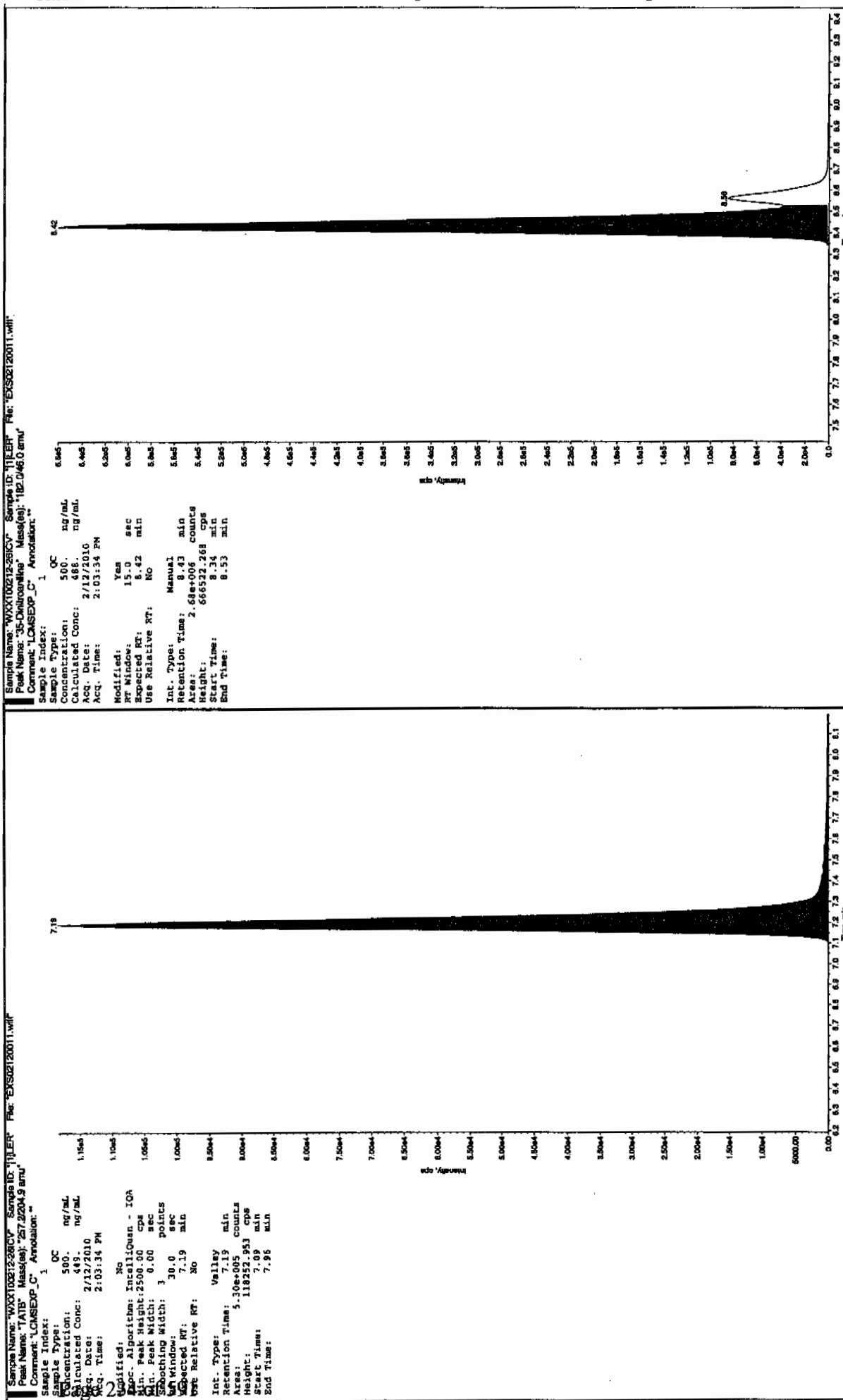
Sample Index: 1 QC  
 Sample Type: 500 ng/mL  
 Concentration: 500 ng/mL  
 Calculated Conc: 558 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 2:03:34 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 2000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.42 min  
 Area: 3.04e+005 counts  
 Height: 5.60e+005 cps  
 Start Time: 8.26 min  
 End Time: 8.52 min

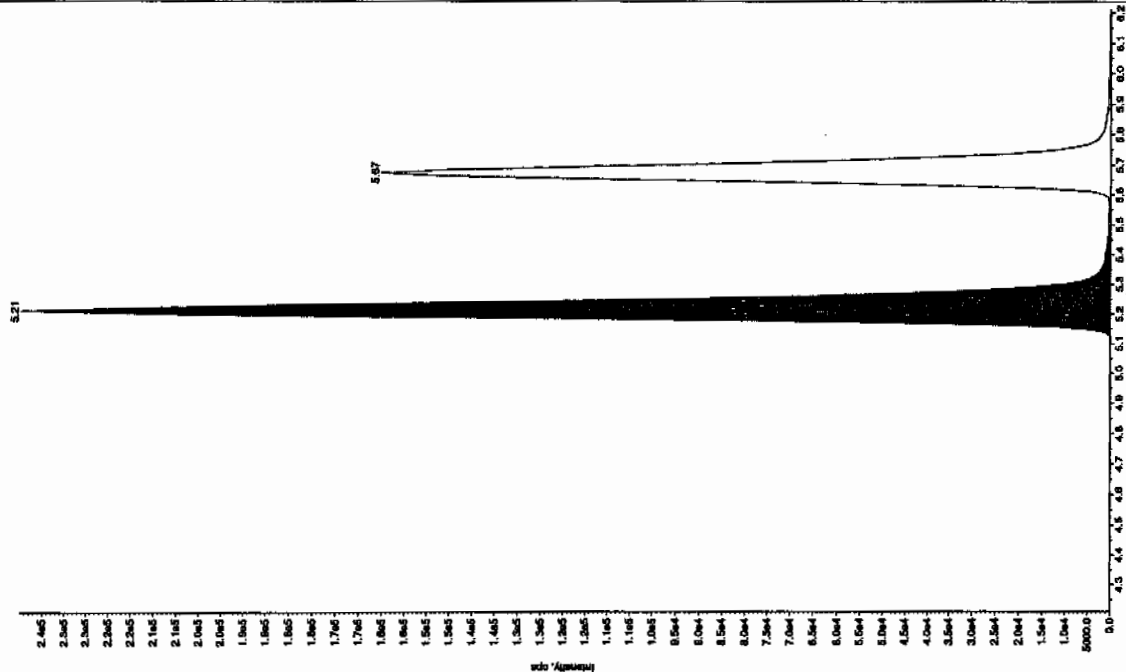
Sample Index: 1 QC  
 Sample Type: 500 ng/mL  
 Concentration: 500 ng/mL  
 Calculated Conc: 449 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 2:03:34 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 2500.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 7.19 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 7.19 min  
 Area: 3.10e+005 counts  
 Height: 1.11e+005 cps  
 Start Time: 7.09 min  
 End Time: 7.96 min

4/11/10 12/15/10

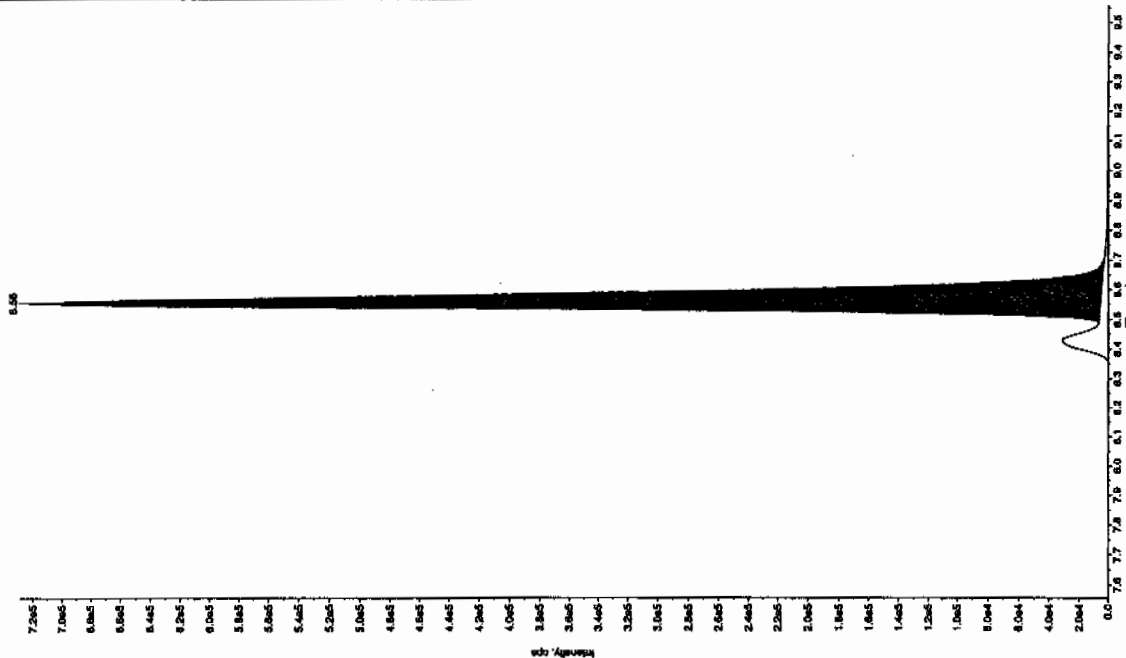
\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

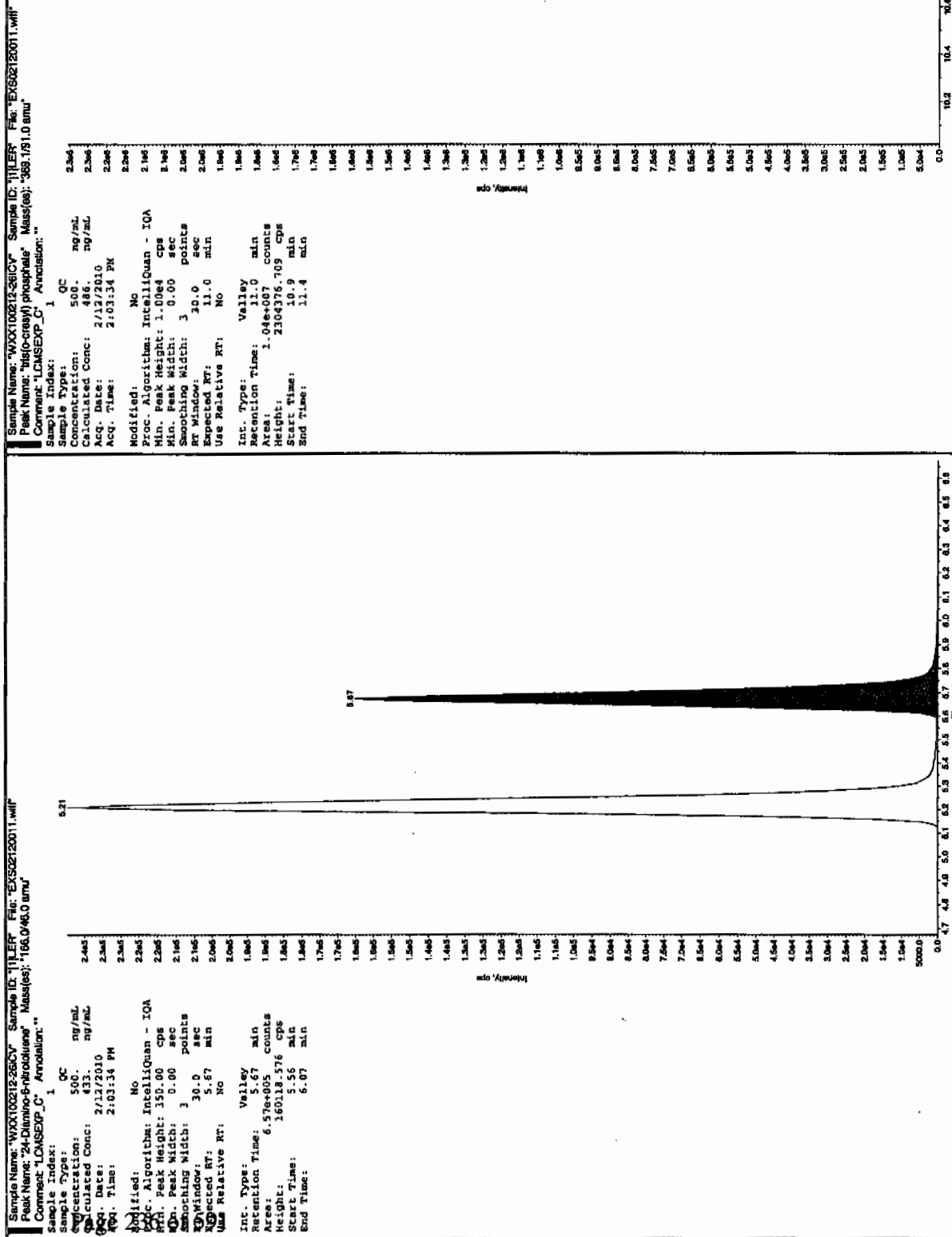
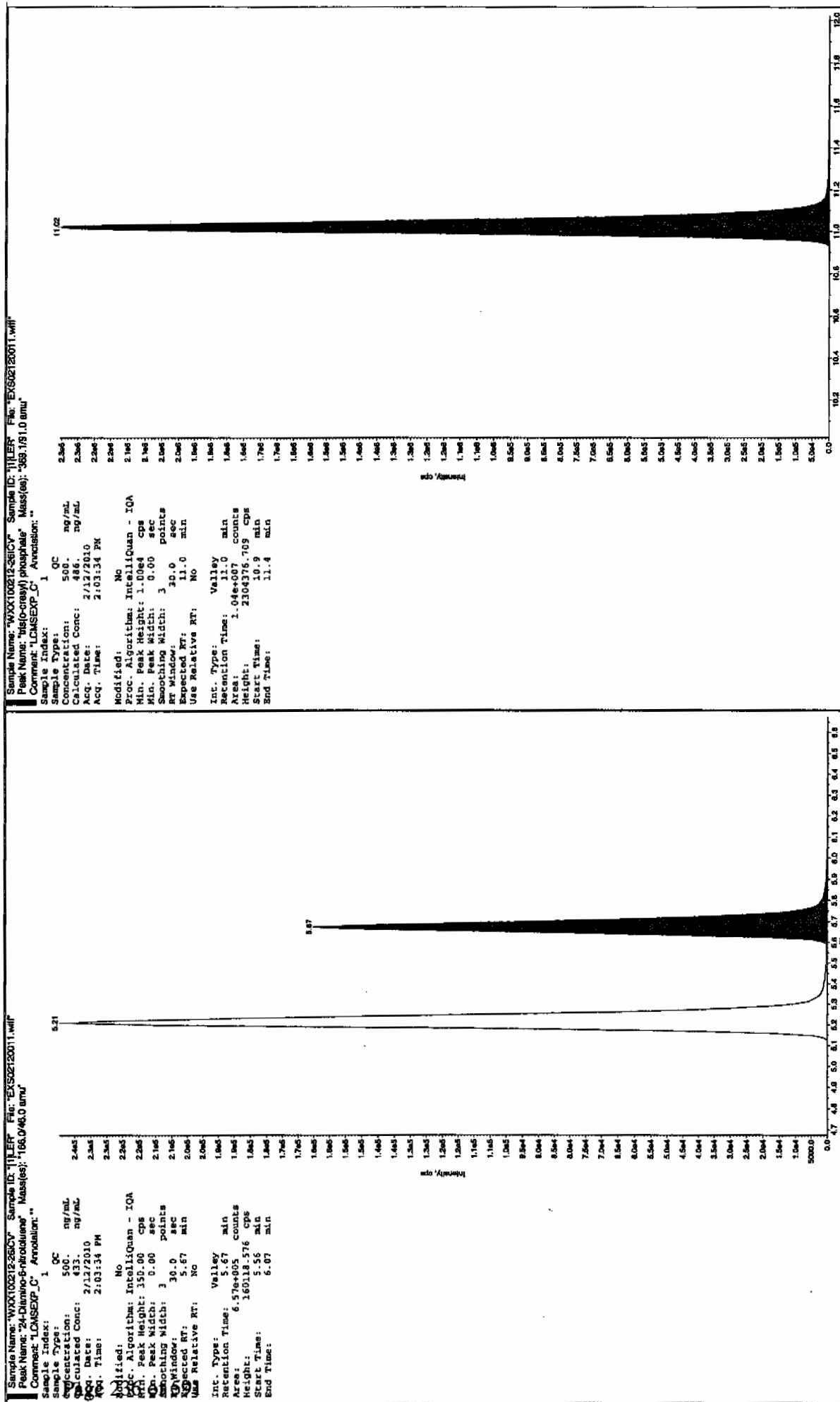
after Jan 2/15/10





Sample Name: "WXX100212-281CV" Sample ID: "111ER" File: "EXS02120031.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
Comment: "CMS/EXP C" Acquisition: ""





7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208012a

Analysis Date: 08-FEB-10 20:09

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	40.21	101	
1,3-Dinitrobenzene-d4	500	487.883	98	
2,4,6-Trinitrotoluene	40	41.689	104	
2,4-Dinitrotoluene	40	40.338	101	
2,6-Dinitrotoluene	40	41.76	104	
2,6-Dinitrotoluene-d3	500	475.508	95	
2-Amino-4,6-dinitrotoluene	40	38.358	96	
3,4-Dinitrotoluene	20	17.528	88	
4-Amino-2,6-dinitrotoluene	40	38.578	96	
HMX	40	37.759	94	
Nitrobenzene	40	49.333	123	
PETN	40	39.026	98	
RDX	40	41.043	103	
Tetryl	40	37.278	93	
m-Dinitrobenzene	40	39.387	98	
m-Nitrotoluene	40	35.357	88	
o-Nitrotoluene	40	44.694	112	
p-Nitrotoluene	40	41.348	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



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

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP\PRO\Data\EXP0208012a

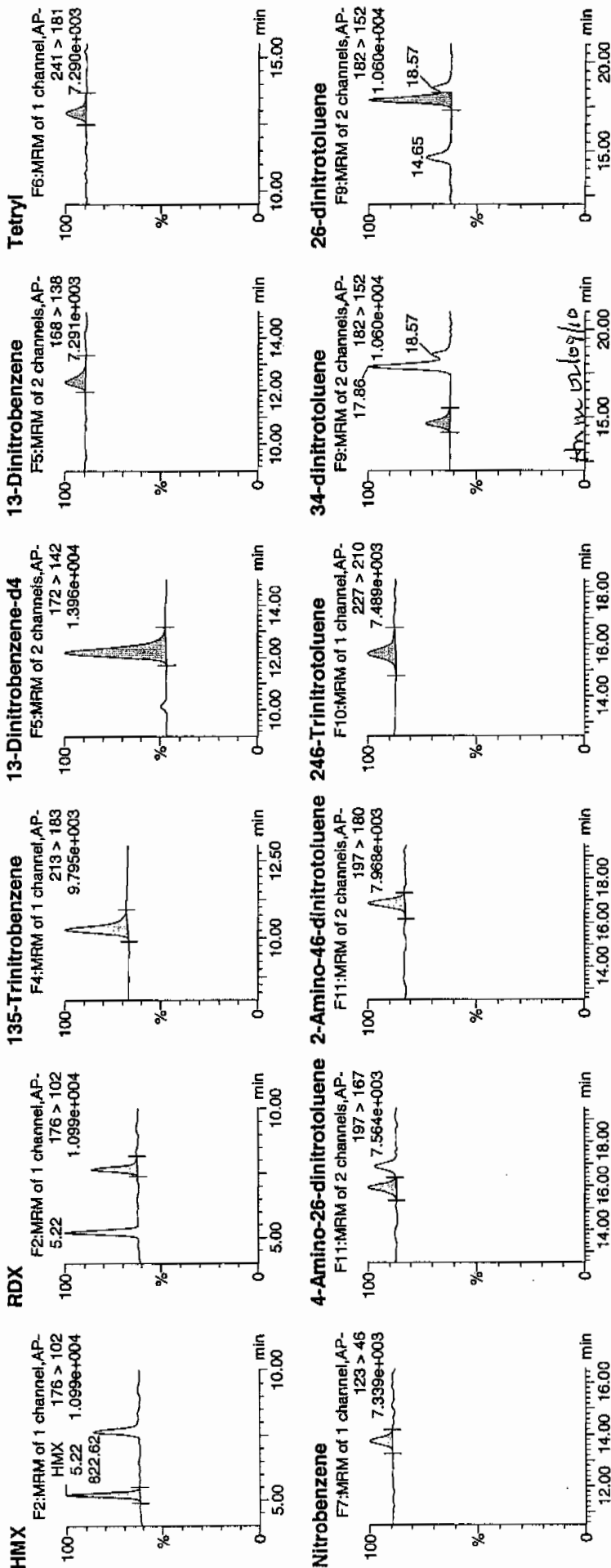
Date: 08-Feb-2010

Time: 20:09:03

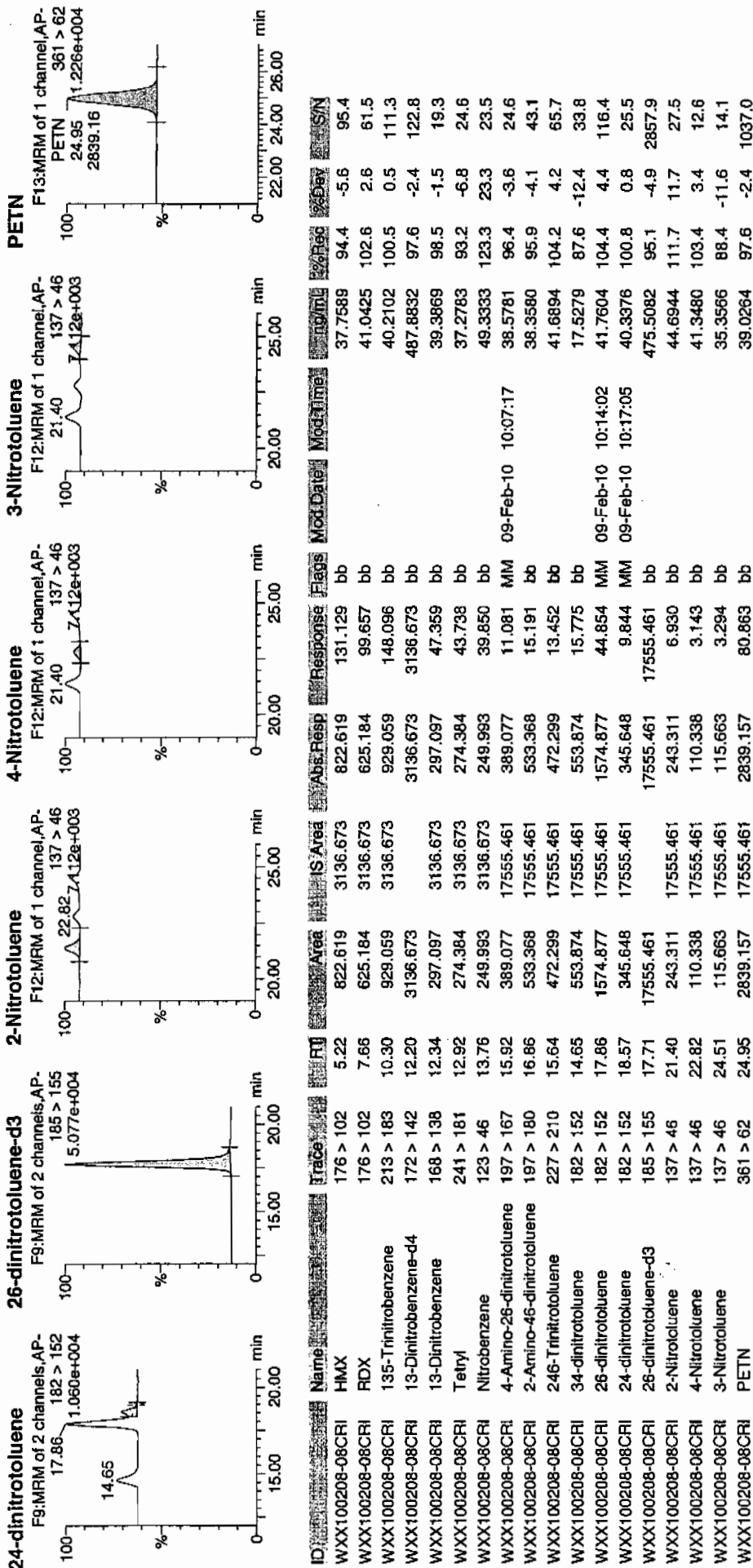
ID: WXX100208-08CRI

Vial: 1:1,C

WXX  
2/9/10



Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/08/10  
 Time of Injection 2009  
 Standard Number WXX100208-08CRI  
 Data File EXP0208012a

HMX	94.4
RDX	102.6
135-TNB	100.5
13-DNB	98.5
Tetryl	93.2
Nitrobenzene	123.3
4A-26-DNT	96.4
2A-46-DNT	95.9
246-TNT	104.2
34-DNT(surr)	87.6
26-DNT	104.4
24-DNT	100.8
2-NT	111.7
4-NT	103.4
3-NT	88.4
PETN	97.6

*WAF*  
*2/9/10*

Total 1602.9

Average 100.2

*HMM-02109/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208023a

Analysis Date: 09-FEB-10 01:33

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	600	578.428	96	
o-Nitrotoluene	600	666.647	111	
p-Nitrotoluene	600	667.754	111	
1,3,5-Trinitrobenzene	600	554.897	92	
1,3-Dinitrobenzene-d4	500	508.101	102	
2,4,6-Trinitrotoluene	600	663.13	111	
2,4-Dinitrotoluene	600	649.62	108	
2,6-Dinitrotoluene	600	630.157	105	
2,6-Dinitrotoluene-d3	500	523.831	105	
2-Amino-4,6-dinitrotoluene	600	647.652	108	
3,4-Dinitrotoluene	300	319.699	107	
4-Amino-2,6-dinitrotoluene	600	634.612	106	
HMX	600	662.759	110	
Nitrobenzene	600	657.025	110	
PETN	600	606.078	101	
RDX	600	749.058	125	*
Tetryl	600	660.942	110	
m-Dinitrobenzene	600	626.395	104	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New\_Exp\PROV020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP\PROV020810expA.qld, Time: Tue Feb 09 10:19:05 2010

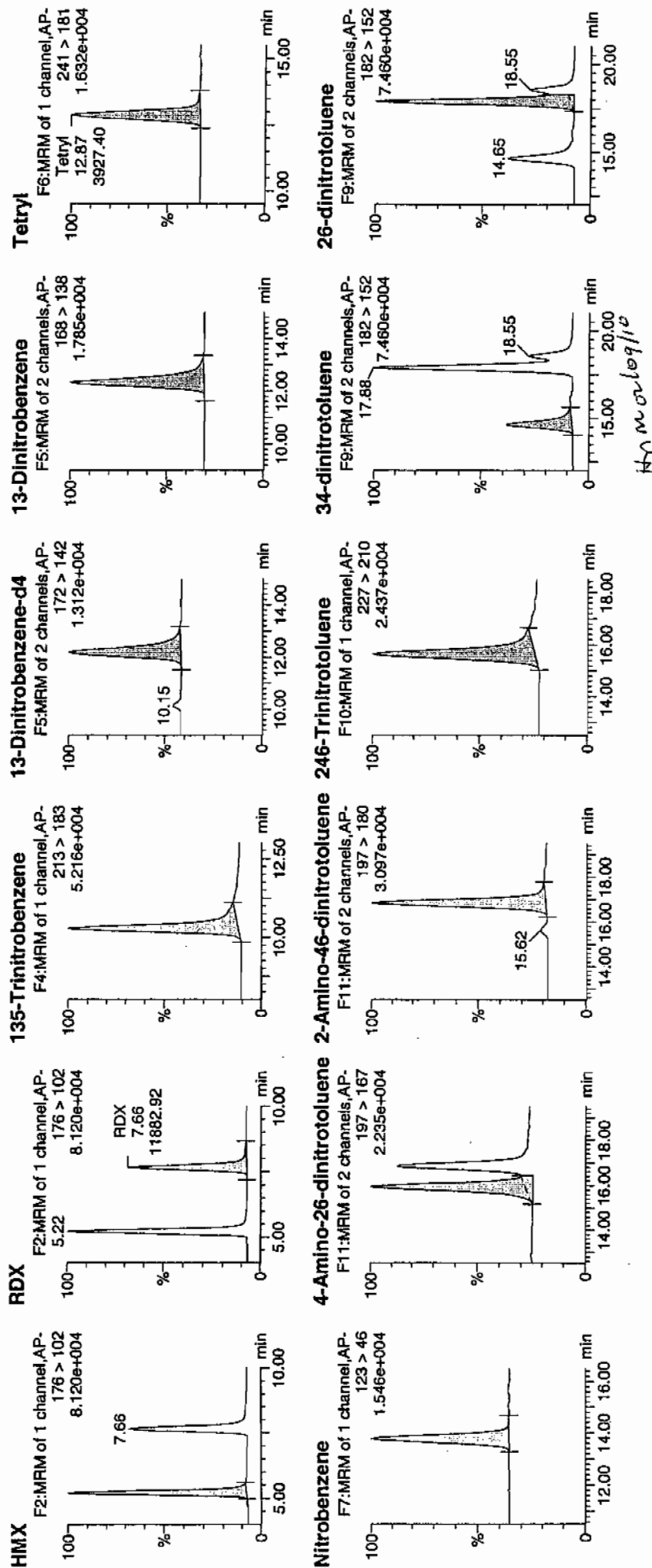
Date: 09-Feb-2010

Time: 01:33:25

ID: WXX100208-07CCV

Vial: 1:1,B

10/17  
2/1/10

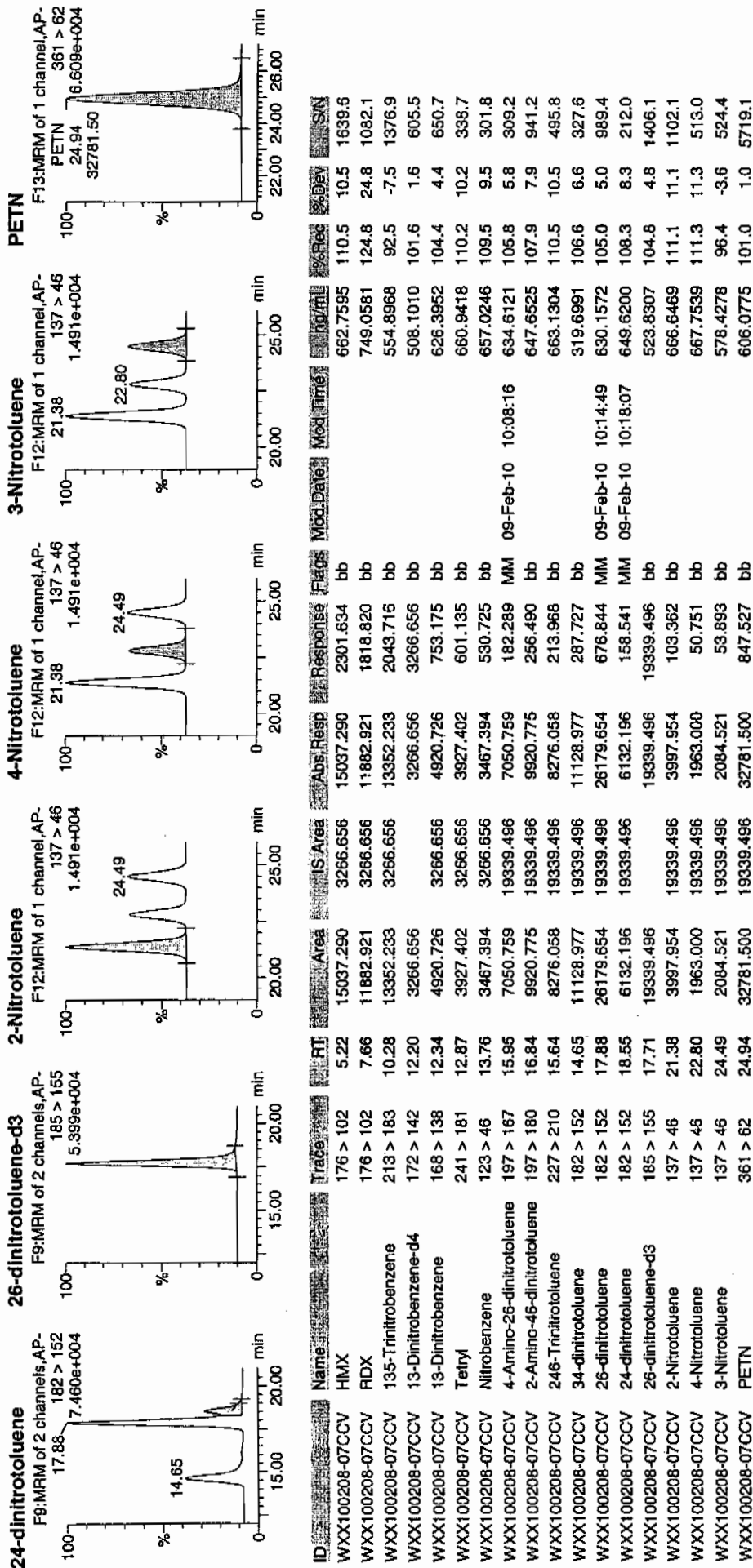


# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Feb 09 10:21:18 2010, Page 46 of 77

Dataset: C:\MASSLYNX\New\_Exp\PRO1020810expA.qld, Time: Tue Feb 09 10:19:05 2010



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/09/10  
 Time of Injection: 0133  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208023a

HMX	110.5
RDX	124.8
135-TNB	92.5
13-DNB	104.4
Tetryl	110.2
Nitrobenzene	109.5
4A-26-DNT	105.8
2A-46-DNT	107.9
246-TNT	110.5
34-DNT(surr)	106.6
26-DNT	105.0
24-DNT	108.3
2-NT	111.1
4-NT	111.3
3-NT	96.4
PETN	101.0

*WXX  
2/9/10*

Total 1715.8

Average 107.2

*Home on log 10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208025a

Analysis Date: 09-FEB-10 02:32

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	40	42.477	106	
2,6-Dinitrotoluene-d3	500	478.268	96	
2-Amino-4,6-dinitrotoluene	40	34.805	87	
3,4-Dinitrotoluene	20	22.301	112	
4-Amino-2,6-dinitrotoluene	40	34.146	85	
HMX	40	52.317	131	*
Nitrobenzene	40	45.327	113	
PETN	40	49.164	123	
RDX	40	55.212	138	*
Tetryl	40	41.653	104	
m-Dinitrobenzene	40	42.381	106	
m-Nitrotoluene	40	52.115	130	*
o-Nitrotoluene	40	49.924	125	
p-Nitrotoluene	40	50.961	127	
1,3,5-Trinitrobenzene	40	48.344	121	
1,3-Dinitrobenzene-d4	500	473.5	95	
2,4,6-Trinitrotoluene	40	40.42	101	
2,4-Dinitrotoluene	40	41.928	105	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208025a

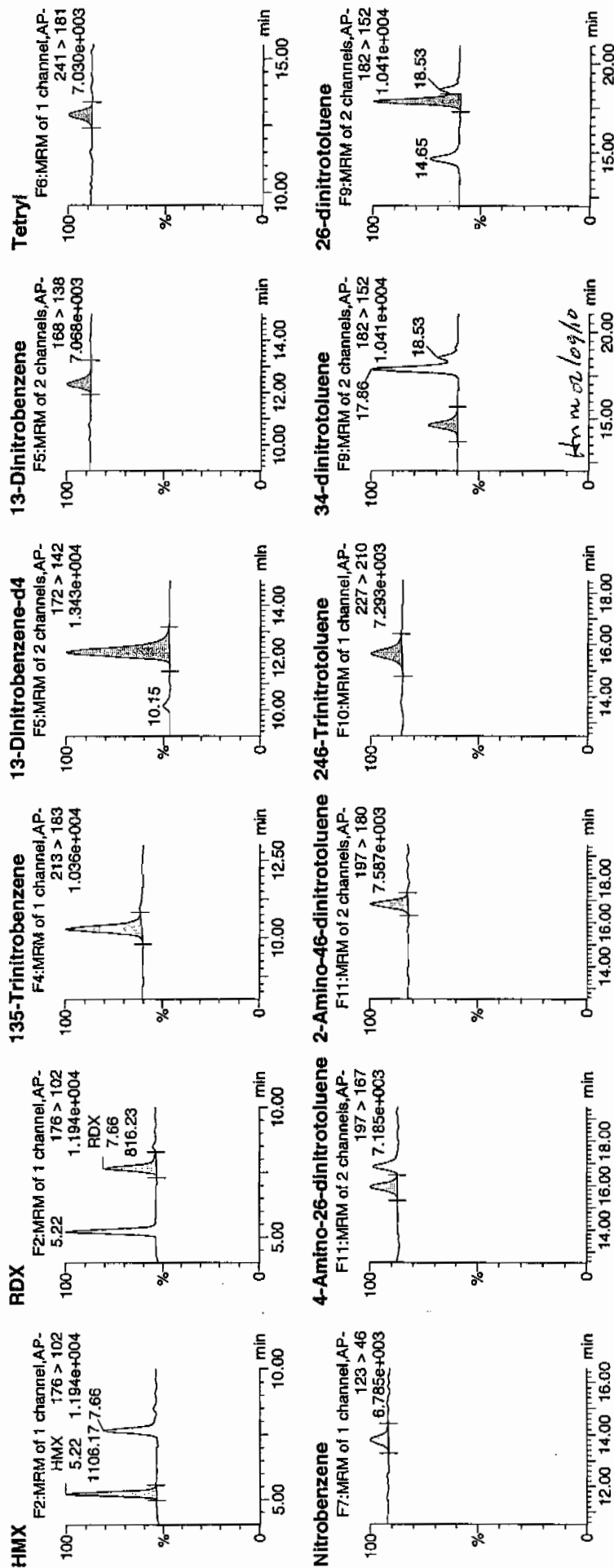
Date: 09-Feb-2010

Time: 02:32:22

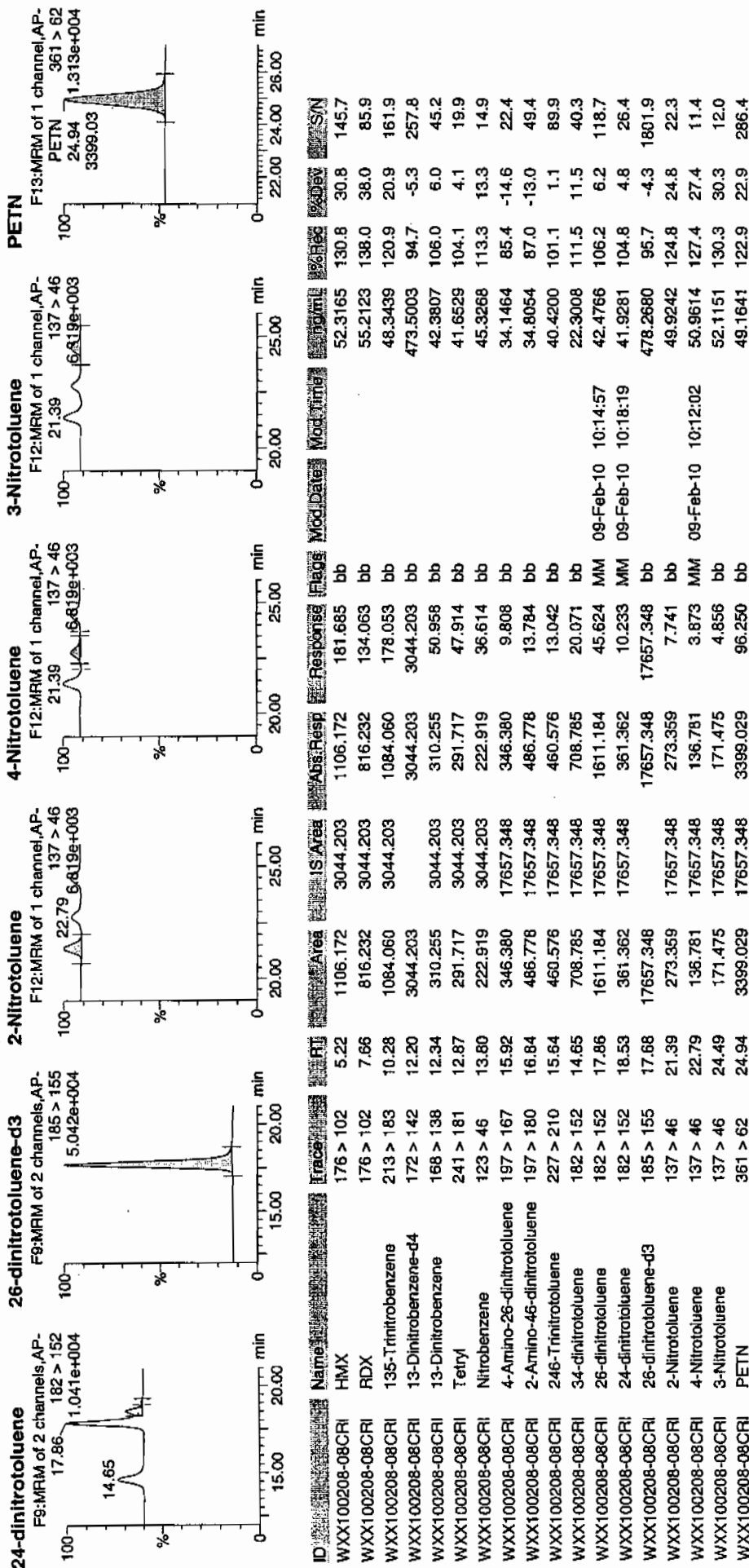
ID: WXX100208-08CRI

Vial: 1:1,C

WXX  
2/9/10



Dataset: C:\MASSLYNX\New\_Exp\PRO020810expA.qld, Time: Tue Feb 09 10:19:05 2010



# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/09/10  
 Time of Injection 0232  
 Standard Number WXX100208-08CRI  
 Data File EXP0208025a

HMX	130.8
RDX	138.0
135-TNB	120.9
13-DNB	106.0
Tetryl	104.1
Nitrobenzene	113.3
4A-26-DNT	85.4
2A-46-DNT	87.0
246-TNT	101.1
34-DNT(surr)	111.5
26-DNT	106.2
24-DNT	104.8
2-NT	124.8
4-NT	127.4
3-NT	130.3
PETN	122.9

*mtf  
2/9/10*

Total 1814.5

Average 113.4

*4/11/10 02/09/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208036a

Analysis Date: 09-FEB-10 07:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	557.726	93	
1,3-Dinitrobenzene-d4	500	507.978	102	
2,4,6-Trinitrotoluene	600	683.818	114	
2,4-Dinitrotoluene	600	677.06	113	
2,6-Dinitrotoluene	600	638.573	106	
2,6-Dinitrotoluene-d3	500	505.031	101	
2-Amino-4,6-dinitrotoluene	600	628.37	105	
3,4-Dinitrotoluene	300	343.206	114	
4-Amino-2,6-dinitrotoluene	600	610.088	102	
HMX	600	580.276	97	
Nitrobenzene	600	601.509	100	
PETN	600	627.319	105	
RDX	600	669.645	112	
Tetryl	600	596.357	99	
m-Dinitrobenzene	600	631.512	105	
m-Nitrotoluene	600	558.007	93	
o-Nitrotoluene	600	611.096	102	
p-Nitrotoluene	600	633.085	106	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208036a

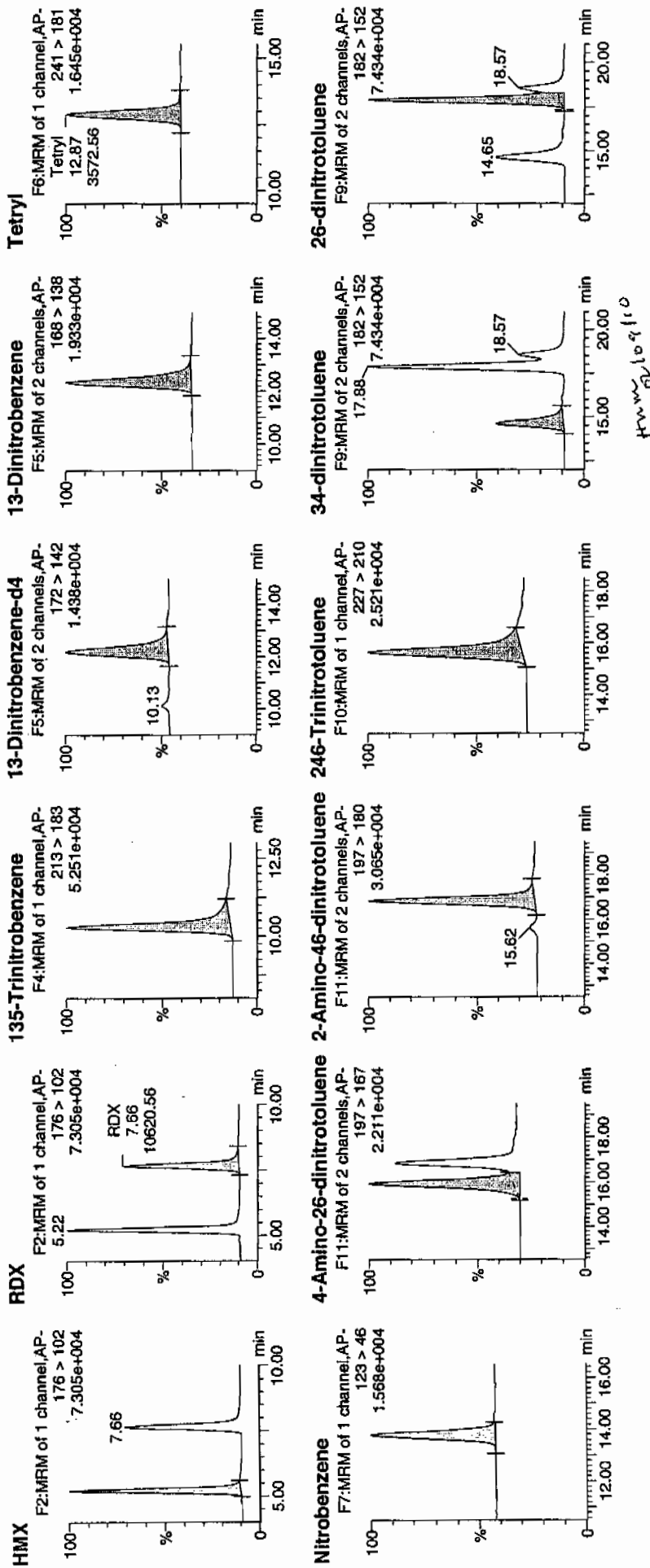
Date: 09-Feb-2010

Time: 07:57:19

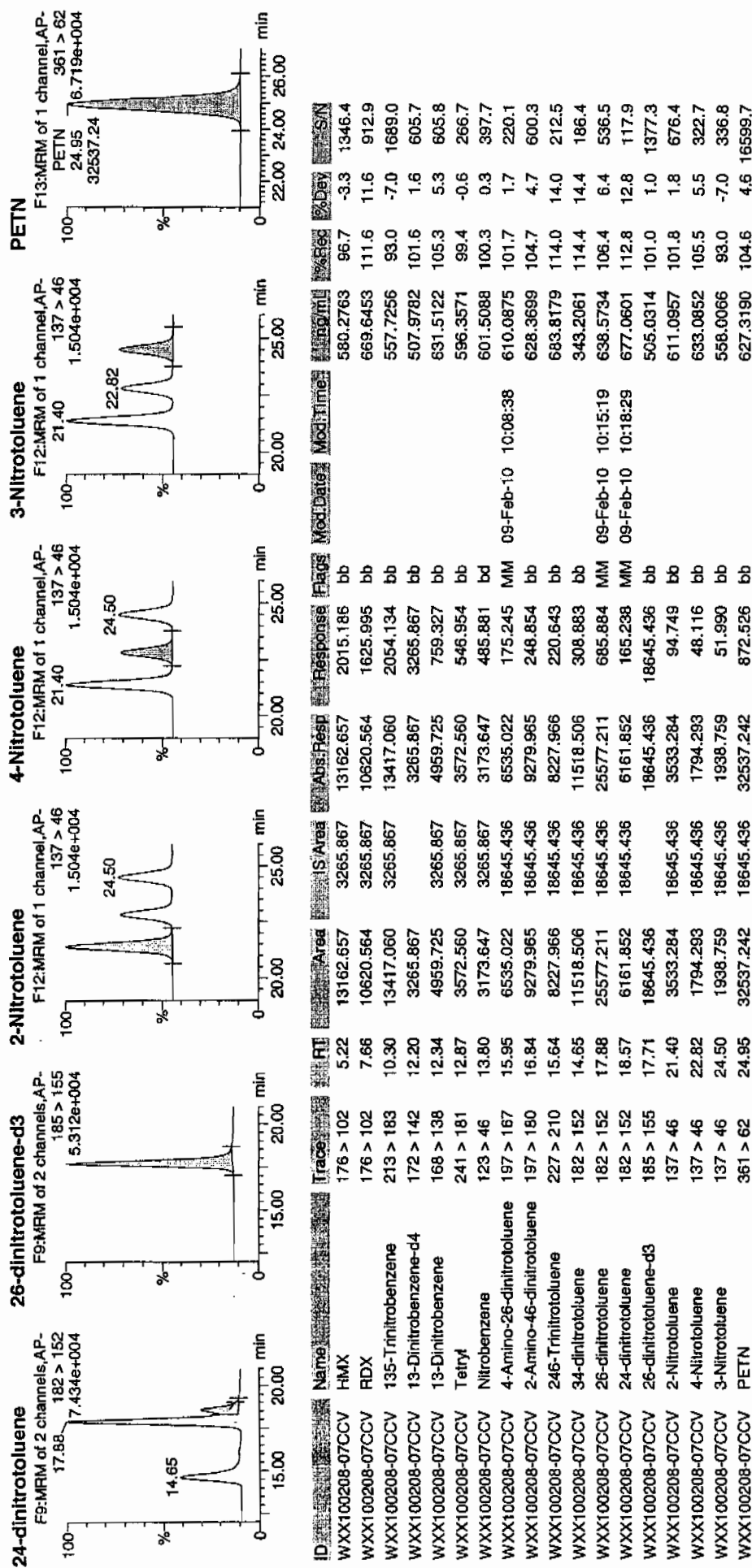
ID: WXX100208-07CCV

Vial: 1:1,B

10/10  
2/10



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/09/10  
 Time of Injection: 0757  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208036a

HMX	96.7
RDX	111.6
135-TNB	93.0
13-DNB	105.3
Tetryl	99.4
Nitrobenzene	100.3
4A-26-DNT	101.7
2A-46-DNT	104.7
246-TNT	114.0
34-DNT(surr)	114.4
26-DNT	106.4
24-DNT	112.8
2-NT	101.8
4-NT	105.5
3-NT	93.0
PETN	104.6

*Handwritten:*  
 2/9/10

Total 1665.2

*Handwritten:* Harmon 02/09/10

Average 104.1

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208038a

Analysis Date: 09-FEB-10 08:56

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	40	38.786	97	
o-Nitrotoluene	40	43.692	109	
p-Nitrotoluene	40	33.849	85	
1,3,5-Trinitrobenzene	40	41.878	105	
1,3-Dinitrobenzene-d4	500	600.974	120	
2,4,6-Trinitrotoluene	40	41.161	103	
2,4-Dinitrotoluene	40	39.718	99	
2,6-Dinitrotoluene	40	41.46	104	
2,6-Dinitrotoluene-d3	500	511.208	102	
2-Amino-4,6-dinitrotoluene	40	41.059	103	
3,4-Dinitrotoluene	20	24.686	123	
4-Amino-2,6-dinitrotoluene	40	44.787	112	
HMX	40	36.25	91	
Nitrobenzene	40	44.383	111	
PETN	40	42.434	106	
RDX	40	40.143	100	
Tetryl	40	36.6	92	
m-Dinitrobenzene	40	41.257	103	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA.qld, Time: Tue Feb 09 10:19:05 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208038a

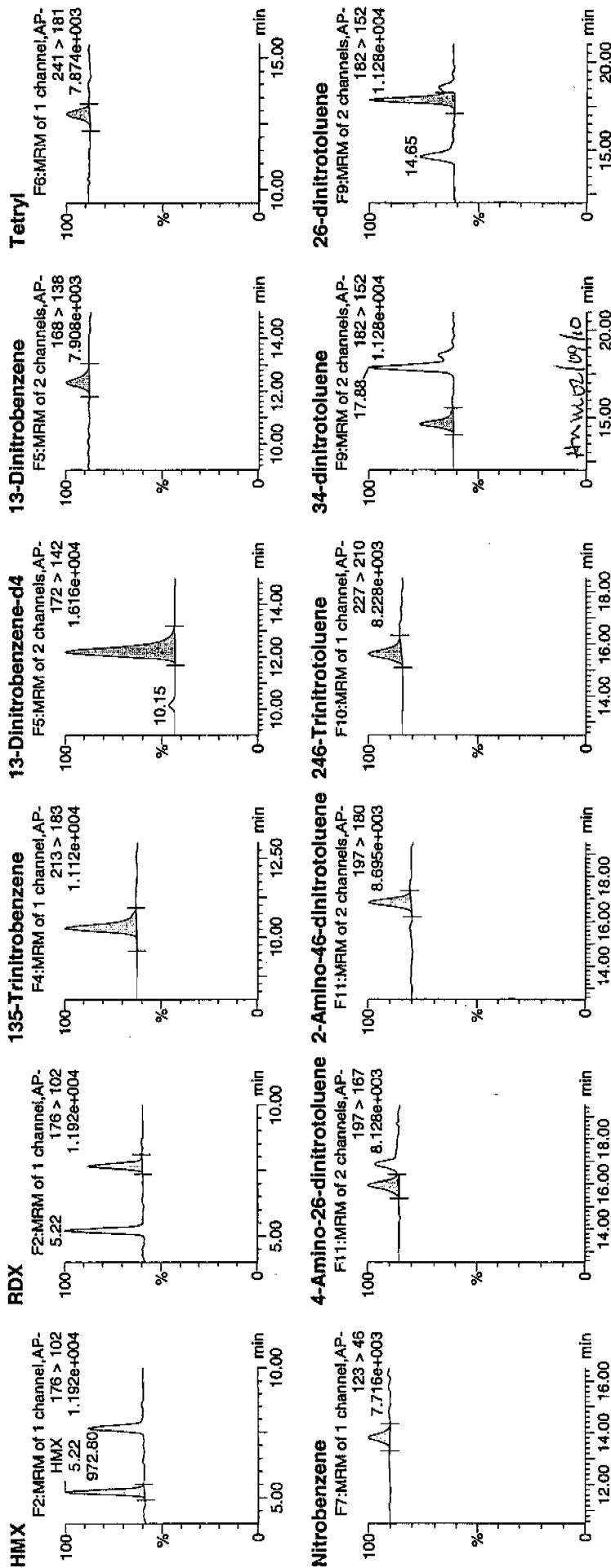
Date: 09-Feb-2010

Time: 08:56:17

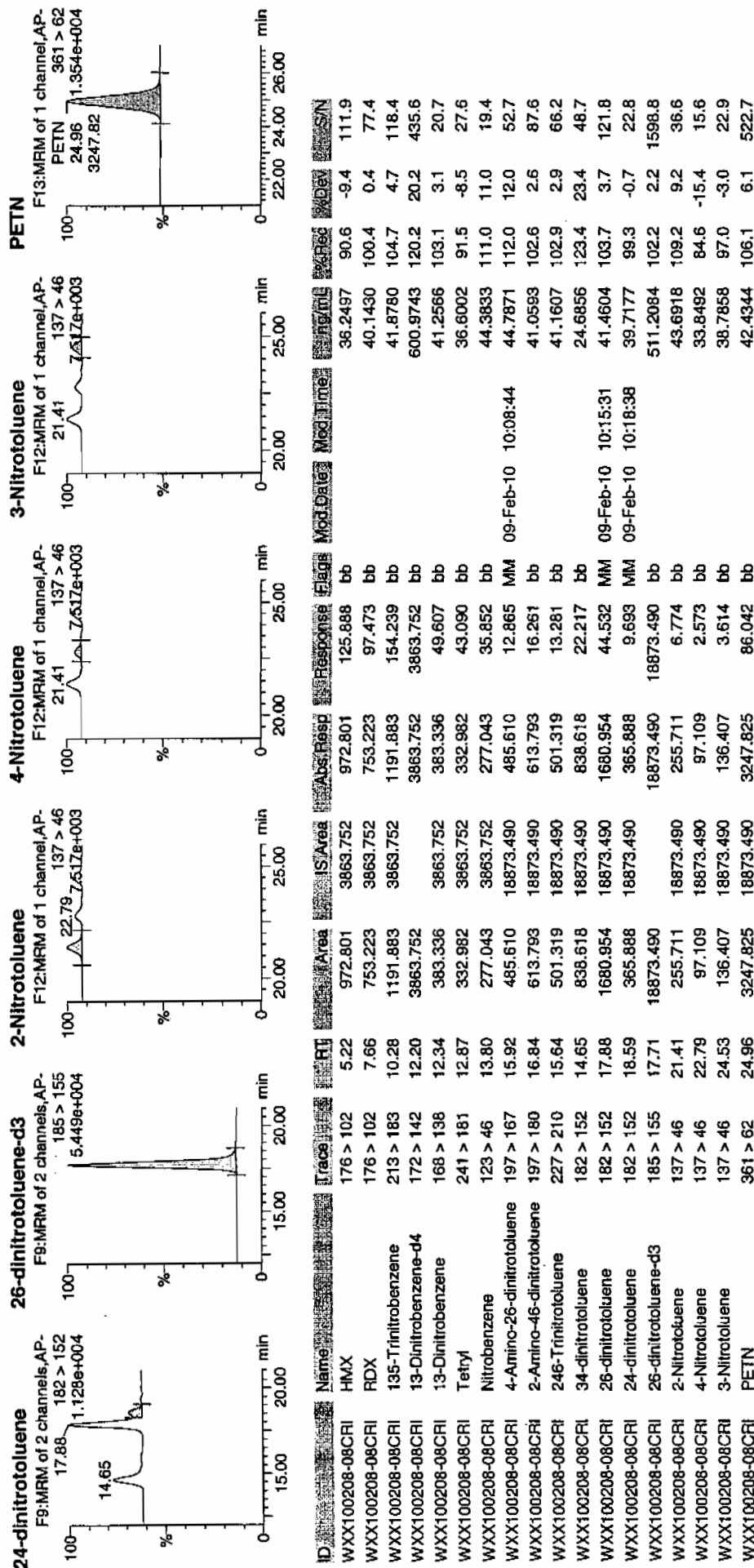
ID: WXX100208-08CRI

Vial: 1:1,C

WXX  
2/9/10



Dataset: C:\MASSLYNX\New\_Exp\PRO1020810expA.qld, Time: Tue Feb 09 10:19:05 2010



# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/09/10  
 Time of Injection 0856  
 Standard Number WXX100208-08CRI  
 Data File EXP0208038a

HMX	90.6
RDX	100.4
135-TNB	104.7
13-DNB	103.1
Tetryl	91.5
Nitrobenzene	111.0
4A-26-DNT	112.0
2A-46-DNT	102.6
246-TNT	102.9
34-DNT(surr)	123.4
26-DNT	103.7
24-DNT	99.3
2-NT	109.2
4-NT	84.6
3-NT	97.0
PETN	106.1

*WTF  
2/9/10*

Total 1642.1

Average 102.6

*from average*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208049a

Analysis Date: 09-FEB-10 14:20

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	300	327.767	109	
4-Amino-2,6-dinitrotoluene	600	652.073	109	
HMX	600	648.743	108	
Nitrobenzene	600	534.529	89	
PETN	600	566.64	94	
RDX	600	721.033	120	*
Tetryl	600	576.02	96	
m-Dinitrobenzene	600	635.781	106	
m-Nitrotoluene	600	523.672	87	
o-Nitrotoluene	600	534.766	89	
p-Nitrotoluene	600	557.168	93	
1,3,5-Trinitrobenzene	600	581.172	97	
1,3-Dinitrobenzene-d4	500	549.978	110	
2,4,6-Trinitrotoluene	600	711.282	119	
2,4-Dinitrotoluene	600	646.244	108	
2,6-Dinitrotoluene	600	631.864	105	
2,6-Dinitrotoluene-d3	500	554.109	111	
2-Amino-4,6-dinitrotoluene	600	637.752	106	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208049a

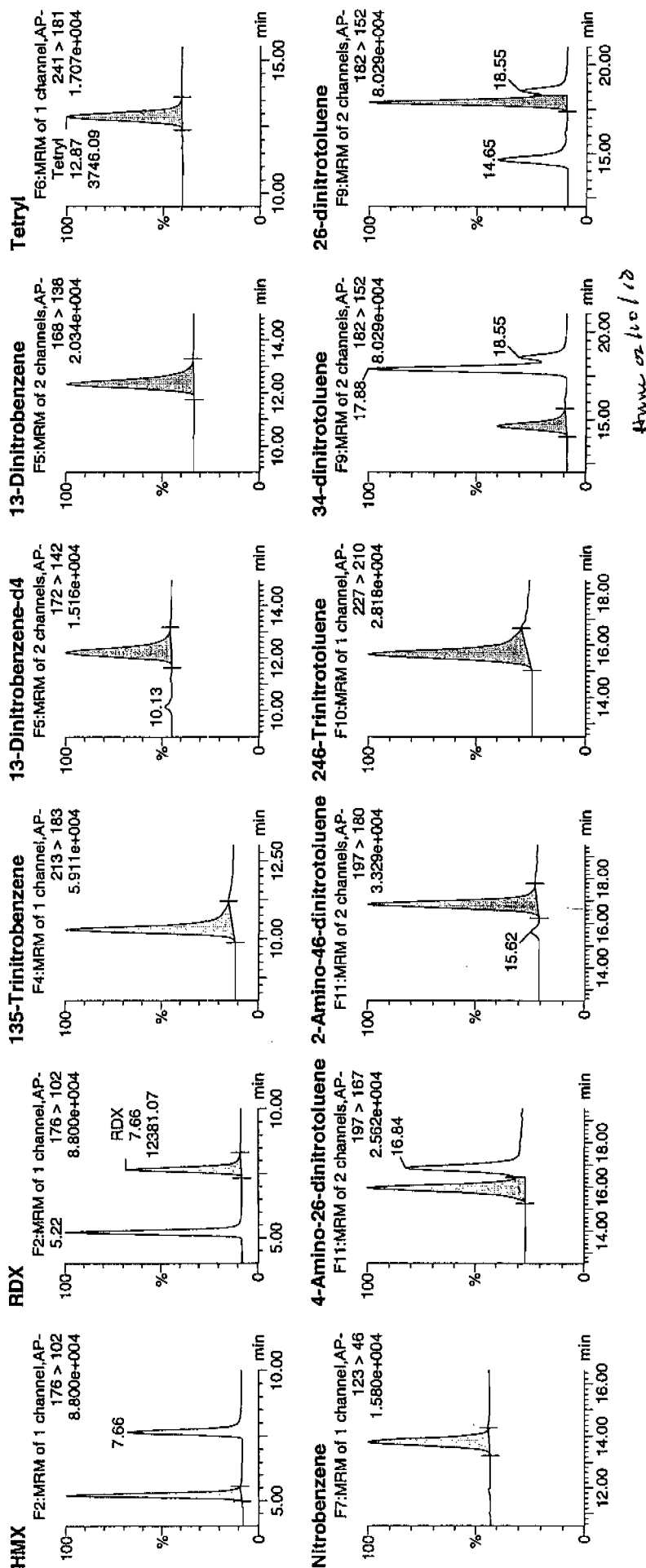
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Time: 14:20:41

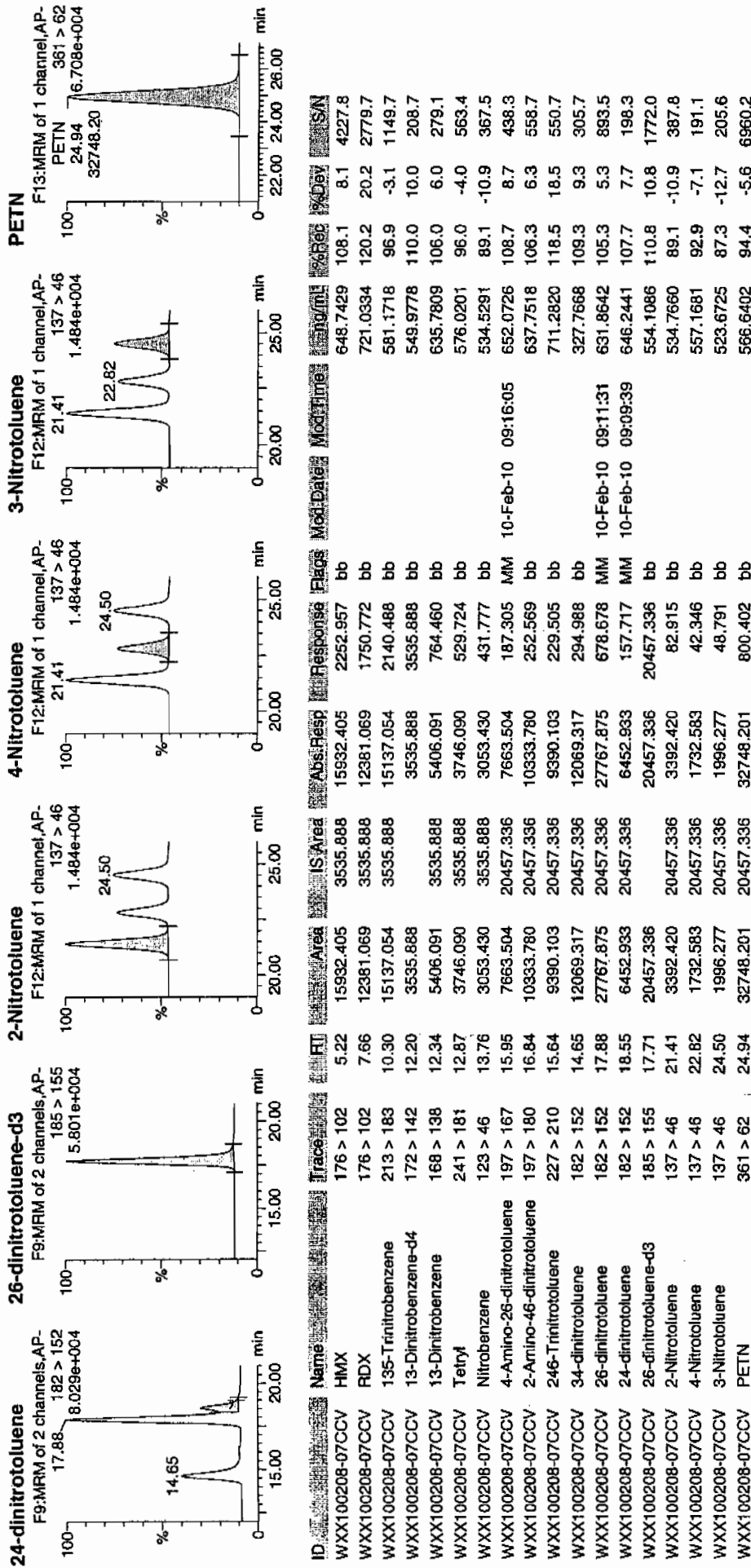
ID: WXX100208-07CCV

Vial: 1:1,B

2/10/10



Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010



# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/09/10  
 Time of Injection: 1420  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208049a

HMX	108.1
RDX	120.2
135-TNB	96.9
13-DNB	106.0
Tetryl	96.0
Nitrobenzene	89.1
4A-26-DNT	108.7
2A-46-DNT	106.3
246-TNT	118.5
34-DNT(surr)	109.3
26-DNT	105.3
24-DNT	107.7
2-NT	89.1
4-NT	92.9
3-NT	87.3
PETN	94.4

*WXX  
2/10/10*

Total 1635.8

Average 102.2

*WXX 02/10/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208051a

Analysis Date: 09-FEB-10 15:19

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	43.499	109	
1,3-Dinitrobenzene-d4	500	575.339	115	
2,4,6-Trinitrotoluene	40	37.174	93	
2,4-Dinitrotoluene	40	39.545	99	
2,6-Dinitrotoluene	40	44.458	111	
2,6-Dinitrotoluene-d3	500	556.656	111	
2-Amino-4,6-dinitrotoluene	40	44.445	111	
3,4-Dinitrotoluene	20	22.823	114	
4-Amino-2,6-dinitrotoluene	40	42.665	107	
HMX	40	42.028	105	
Nitrobenzene	40	40.451	101	
PETN	40	36.261	91	
RDX	40	37.937	95	
Tetryl	40	44.71	112	
m-Dinitrobenzene	40	44.913	112	
m-Nitrotoluene	40	32.902	82	
o-Nitrotoluene	40	39.318	98	
p-Nitrotoluene	40	38.91	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



Printed: Wed Feb 10 09:25:16 2010, Page 25 of 79

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208051a

Date: 09-Feb-2010

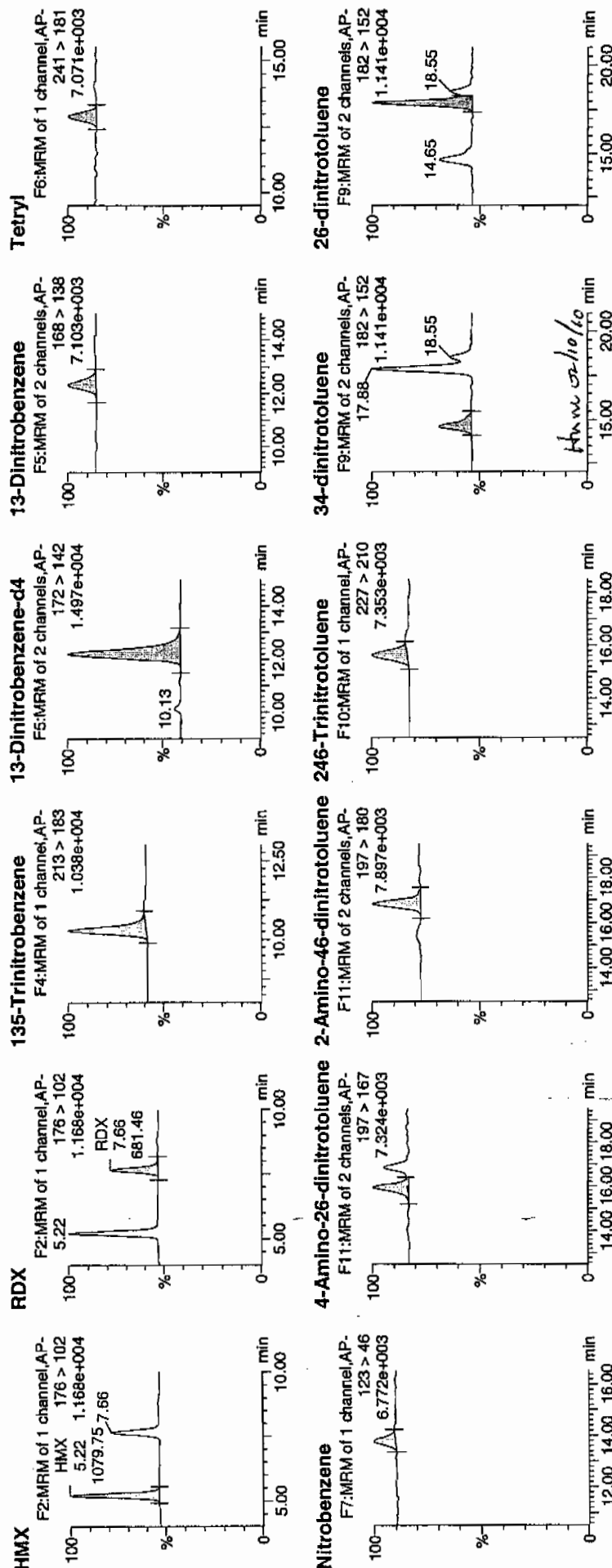
Time: 15:19:46

ID: WXX100208-08CRI

Vial: 1:1,C

2/10/10

Page 262 of 591



# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Feb 10 09:25:16 2010, Page 26 of 79

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

26-dinitrotoluene-d3	2-Nitrotoluene	4-Nitrotoluene	3-Nitrotoluene	PETN										
F9:MRM of 2 channels, AP- 185 > 155 5.766e+004	F12:MRM of 1 channel, AP- 137 > 46 6.699e+003	F12:MRM of 1 channel, AP- 137 > 46 6.699e+003	F12:MRM of 1 channel, AP- 137 > 46 6.699e+003	F13:MRM of 1 channel, AP- 361 > 62 1.240e+004										
ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	%Area	Mod	SN
WXX100208-08CRI	HMX	176 > 102	5.22	1079.752	3698.938	1079.752	145.954	bb			42.0278	105.1	5.1	142.2
WXX100208-08CRI	RDX	176 > 102	7.66	681.462	3698.938	681.462	92.116	bb			37.9368	94.8	-5.2	77.8
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.28	1185.200	3698.938	1185.200	160.208	bb			43.4987	108.7	8.7	112.1
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.20	3698.938		3698.938		bb			575.3388	115.1	15.1	520.0
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.34	399.509	3698.938	399.509	54.003	bb			44.9130	112.3	12.3	46.9
WXX100208-08CRI	Tetryl	241 > 181	12.87	376.028	3698.938	376.028	50.829	bb			44.7099	111.8	11.8	36.6
WXX100208-08CRI	Nitrobenzene	123 > 46	13.76	241.726	3698.938	241.726	32.675	bb			40.4509	101.1	1.1	30.0
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.95	503.725	20551.385	503.725	12.255	MM	10-Feb-10 09:15:53		42.6648	106.7	6.7	25.0
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.84	723.475	20551.385	723.475	17.602	bb			44.4451	111.1	11.1	30.7
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.64	493.014	20551.385	493.014	11.995	bb			37.1739	92.9	-7.1	37.3
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.65	844.283	20551.385	844.283	20.541	bb			22.8233	114.1	14.1	68.4
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.88	1962.747	20551.385	1962.747	47.752	MM	10-Feb-10 09:11:38		44.4584	111.1	11.1	212.7
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.55	396.684	20551.385	396.684	9.651	MM	10-Feb-10 09:09:28		39.5450	98.9	-1.1	42.0
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.71	20551.385		20551.385		bb			556.6560	111.3	11.3	1207.4
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.40	250.572	20551.385	250.572	6.096	bb			39.3183	98.3	-1.7	41.5
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.81	121.550	20551.385	121.550	2.957	bb			38.9095	97.3	-2.7	20.1
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.48	126.001	20551.385	126.001	3.066	bb			32.9019	82.3	-17.7	20.8
WXX100208-08CRI	PETN	361 > 62	24.94	3150.736	20551.385	3150.736	76.655	bb			36.2614	90.7	-9.3	631.2

GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/09/10  
 Time of Injection 1519  
 Standard Number WXX100208-08CRI  
 Data File EXP0208051a

HMX	105.1
RDX	94.8
135-TNB	108.7
13-DNB	112.3
Tetryl	111.8
Nitrobenzene	101.1
4A-26-DNT	106.7
2A-46-DNT	111.1
246-TNT	92.9
34-DNT(surr)	114.1
26-DNT	111.1
24-DNT	98.9
2-NT	98.3
4-NT	97.3
3-NT	82.3
PETN	90.7

*must  
2/10/10*

Total 1637.2

Average 102.3

*4/11/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208062a

Analysis Date: 09-FEB-10 20:44

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	600	590.193	98	
1,3,5-Trinitrobenzene	600	547.737	91	
1,3-Dinitrobenzene-d4	500	567.181	113	
2,4,6-Trinitrotoluene	600	715.292	119	
2,4-Dinitrotoluene	600	646.614	108	
2,6-Dinitrotoluene	600	637.73	106	
2,6-Dinitrotoluene-d3	500	528.196	106	
2-Amino-4,6-dinitrotoluene	600	658.061	110	
3,4-Dinitrotoluene	300	330.267	110	
4-Amino-2,6-dinitrotoluene	600	627.96	105	
HMX	600	599.91	100	
Nitrobenzene	600	551.5	92	
PETN	600	580.031	97	
RDX	600	625.098	104	
Tetryl	600	563.424	94	
m-Dinitrobenzene	600	616.138	103	
m-Nitrotoluene	600	563.078	94	
o-Nitrotoluene	600	586.398	98	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208062a

Date: 09-Feb-2010

Time: 20:44:30

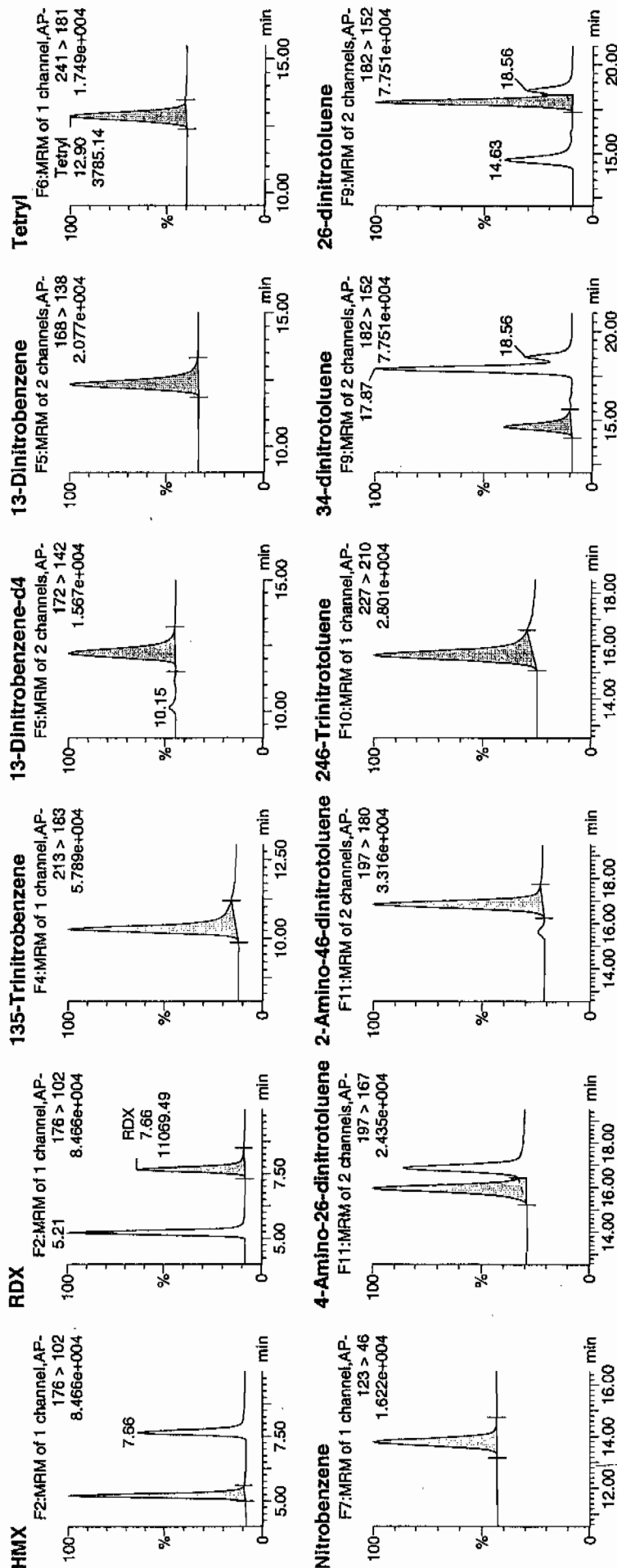
ID: WXX100208-07CCV

Vial: 1:1,B

2/10/10

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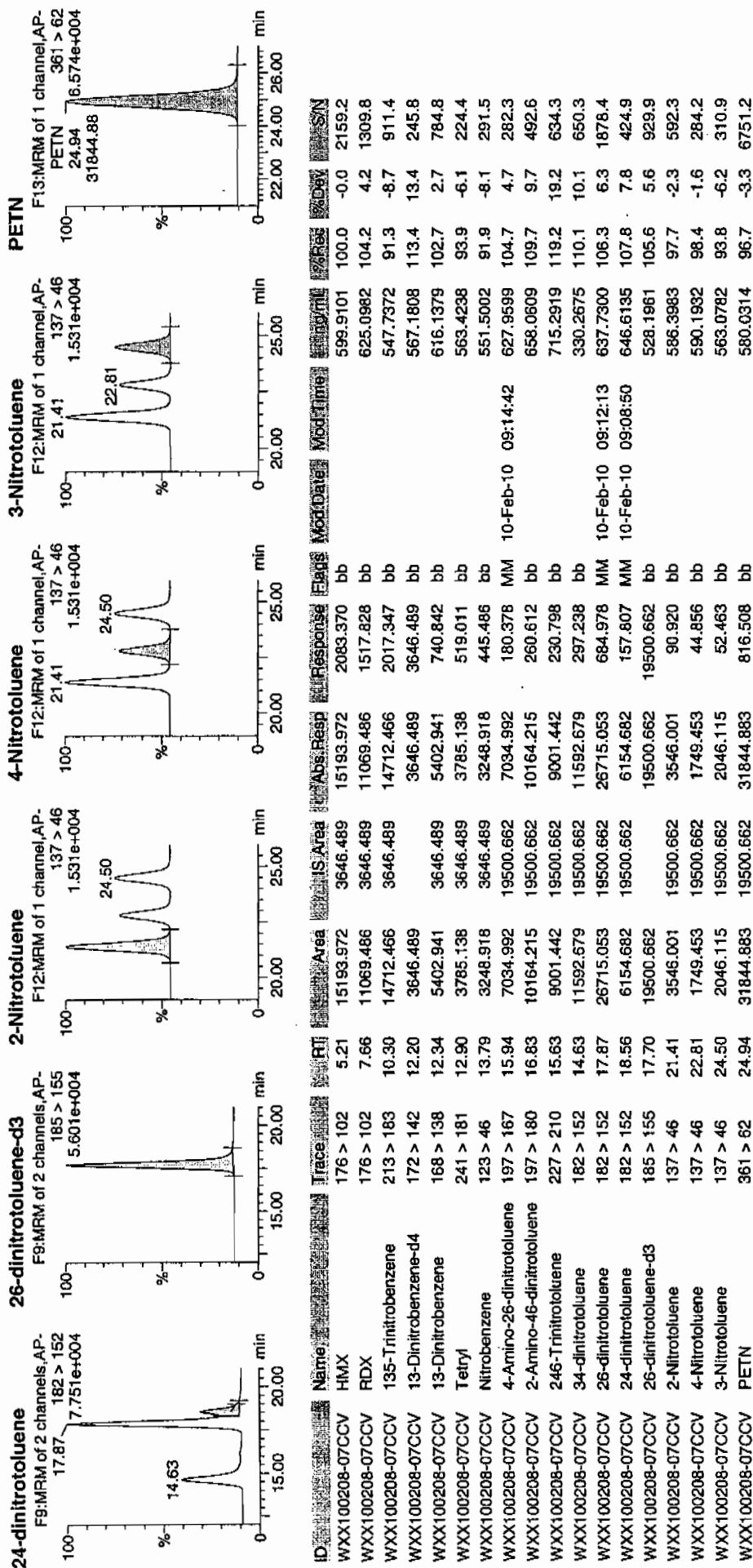


471.11 02 110/10

Printed: Wed Feb 10 09:25:16 2010, Page 48 of 79

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

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA1.qtd, Time: Wed Feb 10 09:19:53 2010



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/09/10  
 Time of Injection: 2044  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208062a

HMX	100.0
RDX	104.2
135-TNB	91.3
13-DNB	102.7
Tetryl	93.9
Nitrobenzene	91.9
4A-26-DNT	104.7
2A-46-DNT	109.7
246-TNT	119.2
34-DNT(surr)	110.1
26-DNT	106.3
24-DNT	107.8
2-NT	97.7
4-NT	98.4
3-NT	93.8
PETN	96.7

*not  
2/10/10*

Total 1628.4

Average 101.8

*done 02/10/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208064a

Analysis Date: 09-FEB-10 21:43

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	20	24.084	120	
4-Amino-2,6-dinitrotoluene	40	41.143	103	
HMX	40	39.239	98	
Nitrobenzene	40	38.933	97	
PETN	40	36.686	92	
RDX	40	36.427	91	
Tetryl	40	34.123	85	
m-Dinitrobenzene	40	38.756	97	
m-Nitrotoluene	40	38.95	97	
o-Nitrotoluene	40	40.457	101	
p-Nitrotoluene	40	34.567	86	
1,3,5-Trinitrobenzene	40	43.241	108	
1,3-Dinitrobenzene-d4	500	602.61	121	
2,4,6-Trinitrotoluene	40	38.148	95	
2,4-Dinitrotoluene	40	39.085	98	
2,6-Dinitrotoluene	40	43.106	108	
2,6-Dinitrotoluene-d3	500	567.8	114	
2-Amino-4,6-dinitrotoluene	40	39.591	99	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYNX\NEW\_EXP\PRO\Data\EXP0208064a

Date: 09-Feb-2010

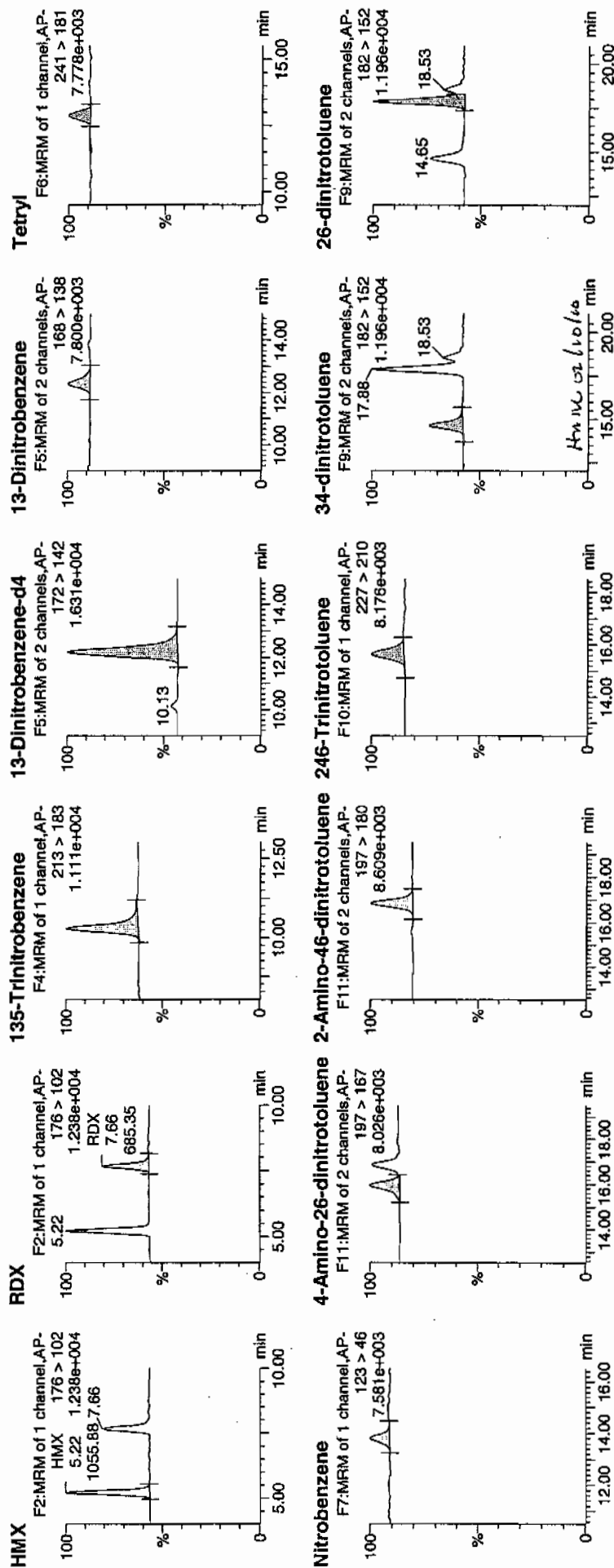
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ID: WXX100208-08CRI

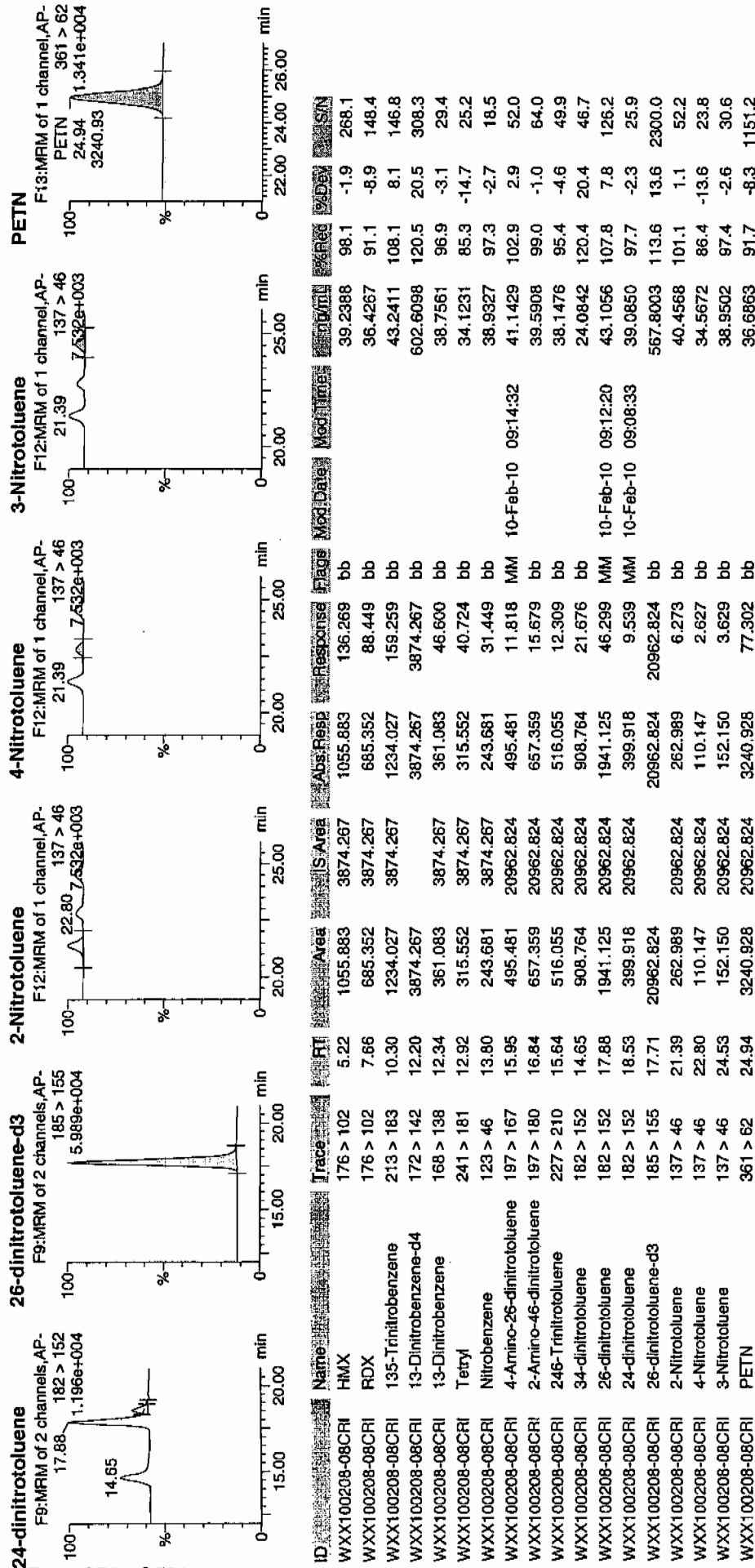
Vial: 1:1,C

WAP  
2/10/10

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Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/09/10  
 Time of Injection 2143  
 Standard Number WXX100208-08CRI  
 Data File EXP0208064a

HMX	98.1
RDX	91.1
135-TNB	108.1
13-DNB	96.9
Tetryl	85.3
Nitrobenzene	97.3
4A-26-DNT	102.9
2A-46-DNT	99.0
246-TNT	95.4
34-DNT(surr)	120.4
26-DNT	107.8
24-DNT	97.7
2-NT	101.1
4-NT	86.4
3-NT	97.4
PETN	91.7

*MTT  
2/10/10*

Total 1576.6

Average 98.5

*from 02/10/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208075a

Analysis Date: 10-FEB-10 03:07

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	550.541	92	
1,3-Dinitrobenzene-d4	500	536.255	107	
2,4,6-Trinitrotoluene	600	692.977	115	
2,4-Dinitrotoluene	600	649.004	108	
2,6-Dinitrotoluene	600	623.523	104	
2,6-Dinitrotoluene-d3	500	505.287	101	
2-Amino-4,6-dinitrotoluene	600	658.154	110	
3,4-Dinitrotoluene	300	327.707	109	
4-Amino-2,6-dinitrotoluene	600	625.18	104	
HMX	600	619.895	103	
Nitrobenzene	600	588.662	98	
PETN	600	650.959	108	
RDX	600	712.542	119	
Tetryl	600	559.722	93	
m-Dinitrobenzene	600	613.819	102	
m-Nitrotoluene	600	614.037	102	
o-Nitrotoluene	600	663.004	111	
p-Nitrotoluene	600	675.946	113	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208075a

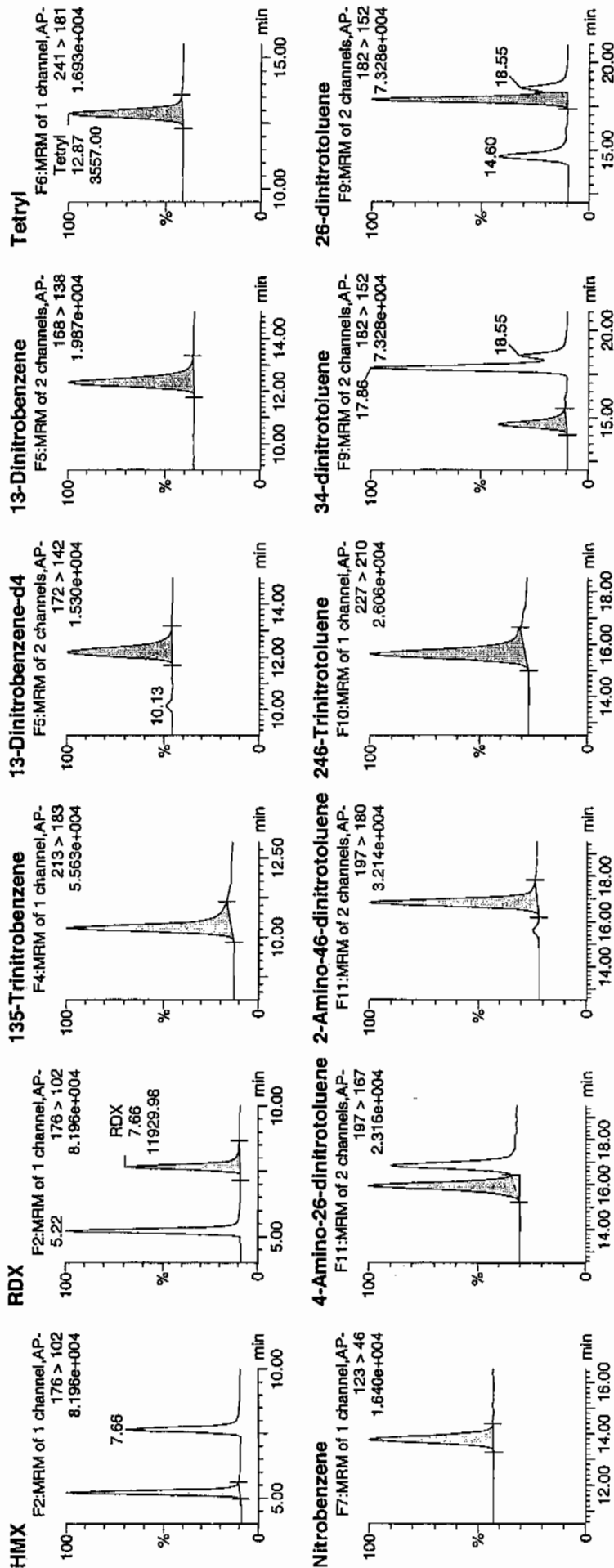
Date: 10-Feb-2010

Time: 03:07:54

ID: WXX100208-07CCV

Vial: 1:1,B

MM  
2/10/10



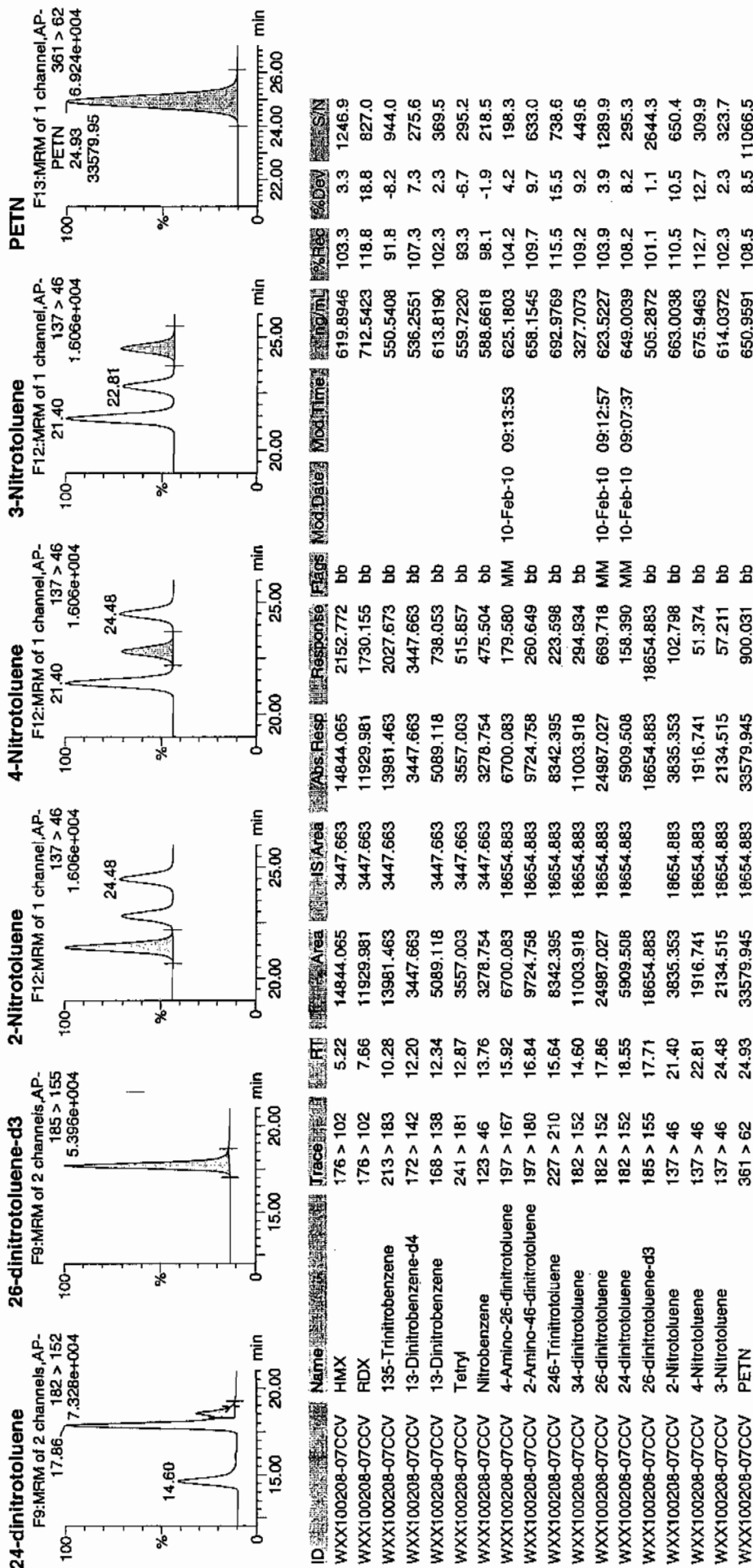
MM 2/10/10

# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Feb 10 09:25:16 2010, Page 74 of 79

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010



# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/10/10  
 Time of Injection: 0307  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208075a

HMX	103.3
RDX	118.8
135-TNB	91.8
13-DNB	102.3
Tetryl	93.3
Nitrobenzene	98.1
4A-26-DNT	104.2
2A-46-DNT	109.7
246-TNT	115.5
34-DNT(surr)	109.2
26-DNT	103.9
24-DNT	108.2
2-NT	110.5
4-NT	112.7
3-NT	102.3
PETN	108.5

1077  
2/10/10

Total 1692.3

Average 105.8

477 m 02/10/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208077a

Analysis Date: 10-FEB-10 04:06

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	43.814	110	
1,3-Dinitrobenzene-d4	500	565.719	113	
2,4,6-Trinitrotoluene	40	37.653	94	
2,4-Dinitrotoluene	40	39.671	99	
2,6-Dinitrotoluene	40	41.489	104	
2,6-Dinitrotoluene-d3	500	565.139	113	
2-Amino-4,6-dinitrotoluene	40	39.866	100	
3,4-Dinitrotoluene	20	21.452	107	
4-Amino-2,6-dinitrotoluene	40	37.145	93	
HMX	40	44.845	112	
Nitrobenzene	40	36.774	92	
PETN	40	41.094	103	
RDX	40	40.397	101	
Tetryl	40	40.051	100	
m-Dinitrobenzene	40	42.442	106	
m-Nitrotoluene	40	42.653	107	
o-Nitrotoluene	40	37.743	94	
p-Nitrotoluene	40	39.09	98	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208077a

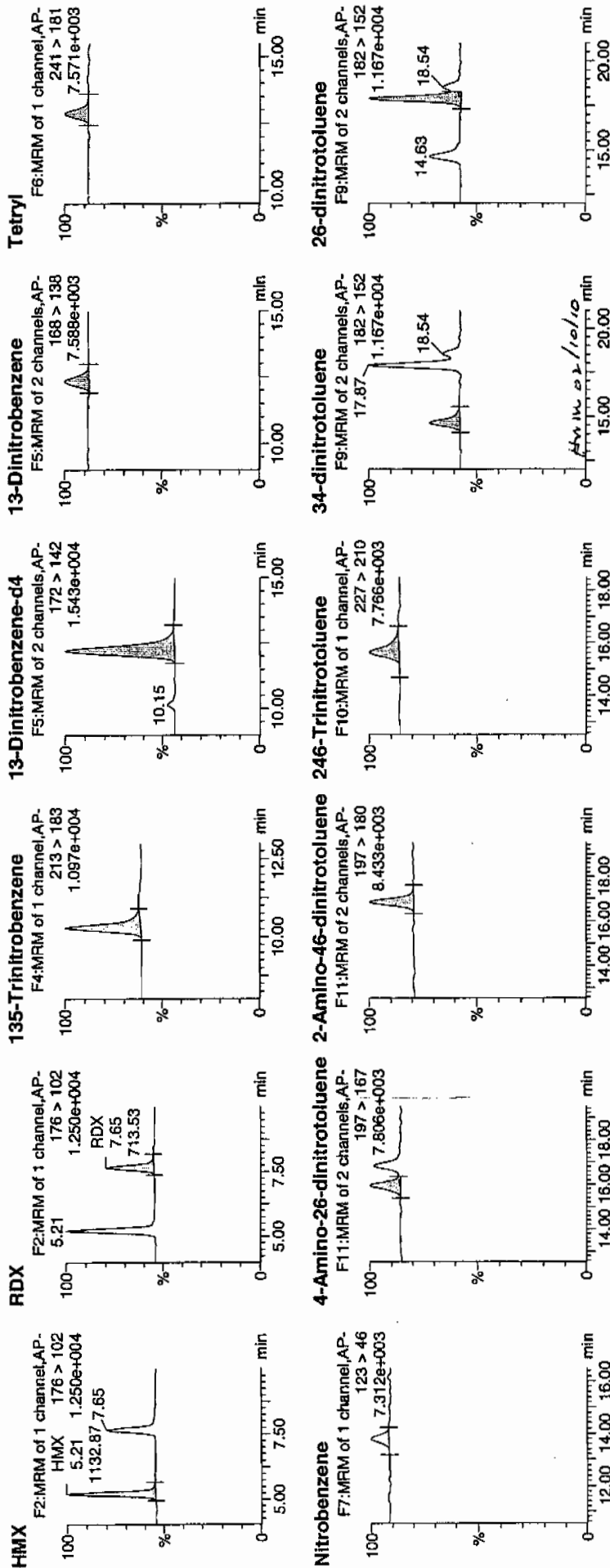
Date: 10-Feb-2010

Page Time: 04:06:59

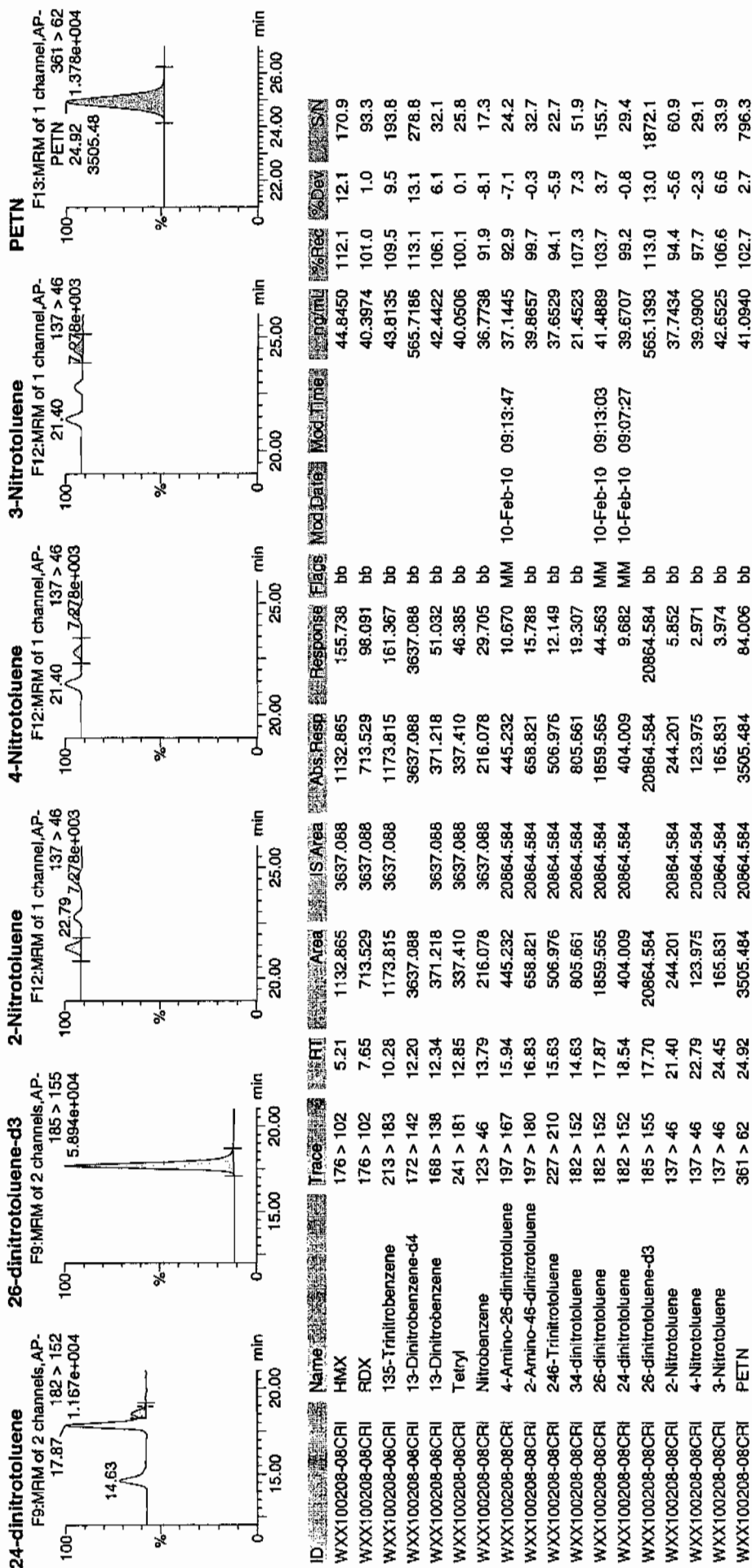
ID: WXX100208-08CRI

Vial: 1:1,C

not  
2/10/10



Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA1.qld, Time: Wed Feb 10 09:19:53 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/10/10  
 Time of Injection 0406  
 Standard Number WXX100208-08CRI  
 Data File EXP0208077a

HMX	112.1
RDX	101.0
135-TNB	109.5
13-DNB	106.1
Tetryl	100.1
Nitrobenzene	91.9
4A-26-DNT	92.9
2A-46-DNT	99.7
246-TNT	94.1
34-DNT(surr)	107.3
26-DNT	103.7
24-DNT	99.2
2-NT	94.4
4-NT	97.7
3-NT	106.6
PETN	102.7
Total	1619.0

*WXX  
2/10/10*

Average

101.2

*Handwritten on table*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208088a

Analysis Date: 10-FEB-10 09:31

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
HMX	600	579.88	97	
Nitrobenzene	600	606.863	101	
PETN	600	627.526	105	
RDX	600	633.367	106	
Tetryl	600	602.321	100	
m-Dinitrobenzene	600	605.649	101	
m-Nitrotoluene	600	598.093	100	
o-Nitrotoluene	600	665.518	111	
p-Nitrotoluene	600	667.409	111	
1,3,5-Trinitrobenzene	600	541.95	90	
1,3-Dinitrobenzene-d4	500	565.857	113	
2,4,6-Trinitrotoluene	600	708.706	118	
2,4-Dinitrotoluene	600	606.731	101	
2,6-Dinitrotoluene	600	600.008	100	
2,6-Dinitrotoluene-d3	500	520.615	104	
2-Amino-4,6-dinitrotoluene	600	614.083	102	
3,4-Dinitrotoluene	300	347.135	116	
4-Amino-2,6-dinitrotoluene	600	606.995	101	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208088a

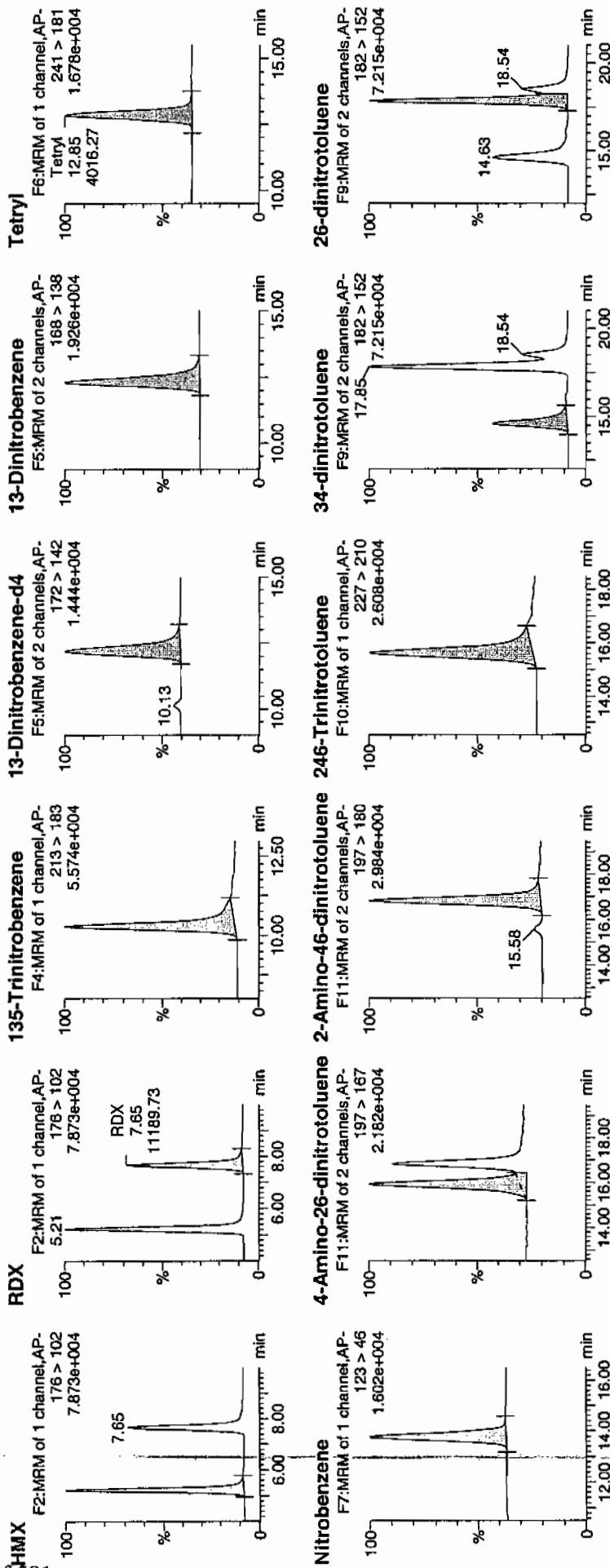
Date: 10-Feb-2010

Time: 09:31:30

ID: WXX100208-07CCV

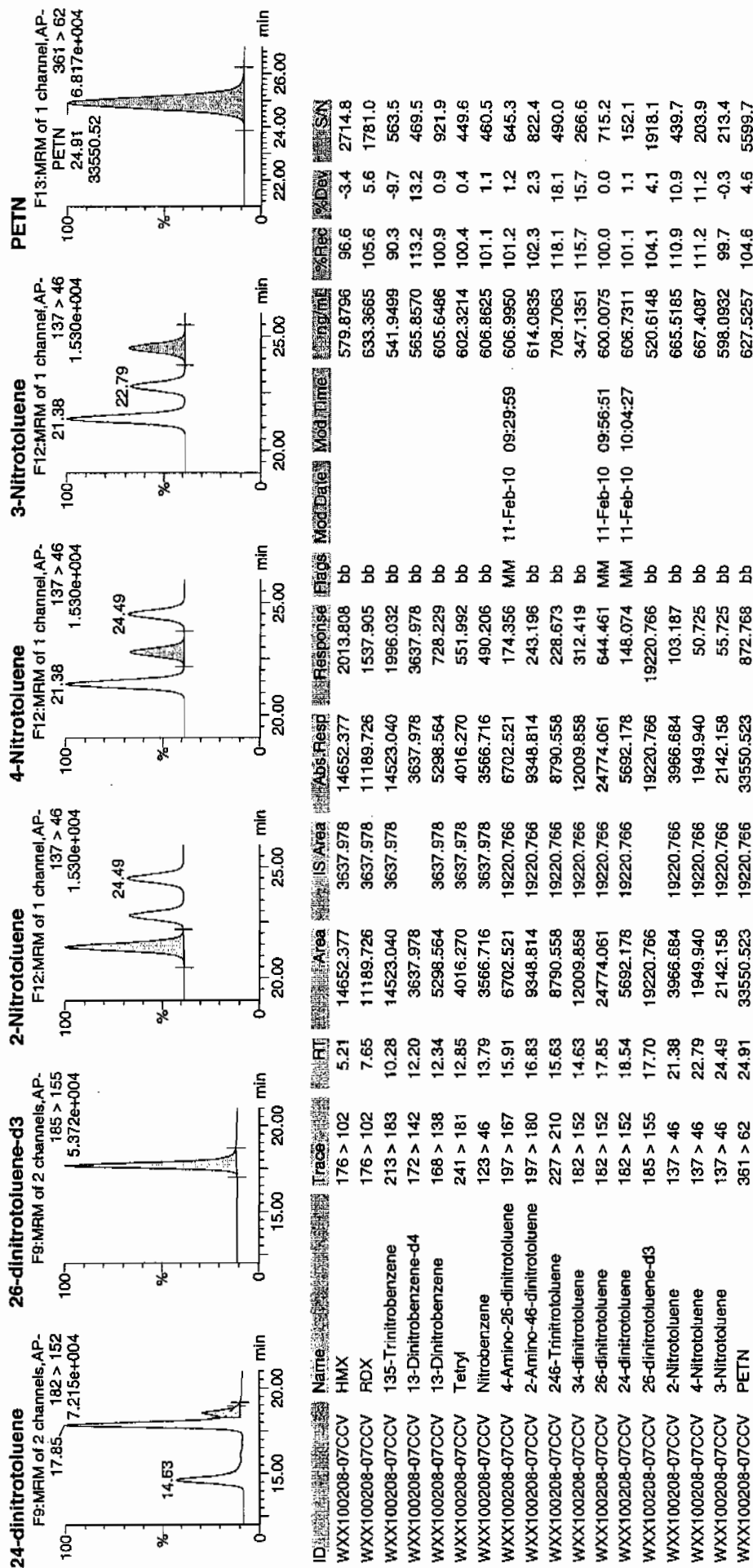
Vial: 1:1,B

MM  
4/1/10



4/1/10

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/10/10  
 Time of Injection: 0931  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208088a

HMX	96.6
RDX	105.6
135-TNB	90.3
13-DNB	100.9
Tetryl	100.4
Nitrobenzene	101.1
4A-26-DNT	101.2
2A-46-DNT	102.3
246-TNT	118.1
34-DNT(surr)	115.7
26-DNT	100.0
24-DNT	101.1
2-NT	110.9
4-NT	111.2
3-NT	99.7
PETN	104.6

*Handwritten:* 100.7  
2/10/10

Total 1659.7

Average 103.7

*Handwritten:* HMX or 101.1

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208090a

Analysis Date: 10-FEB-10 10:30

LCMSMS ID: 203

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	39.025	98	
1,3-Dinitrobenzene-d4	500	604.965	121	
2,4,6-Trinitrotoluene	40	40.552	101	
2,4-Dinitrotoluene	40	36.402	91	
2,6-Dinitrotoluene	40	40.121	100	
2,6-Dinitrotoluene-d3	500	599.331	120	
2-Amino-4,6-dinitrotoluene	40	39.239	98	
3,4-Dinitrotoluene	20	21.64	108	
4-Amino-2,6-dinitrotoluene	40	37.109	93	
HMX	40	43.322	108	
Nitrobenzene	40	42.181	105	
PETN	40	34.532	86	
RDX	40	50.422	126	
Tetryl	40	35.418	89	
m-Dinitrobenzene	40	44.912	112	
m-Nitrotoluene	40	42.094	105	
o-Nitrotoluene	40	35.885	90	
p-Nitrotoluene	40	39.742	99	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208090a

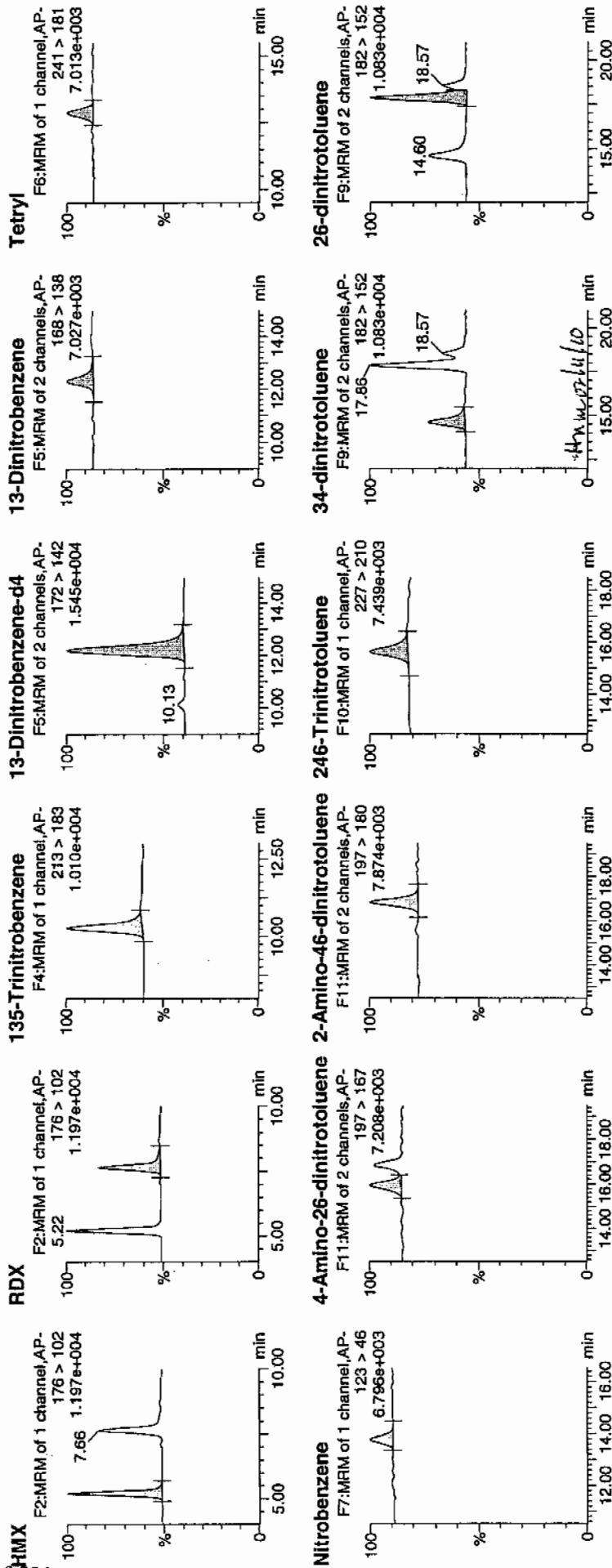
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Time: 10:30:41

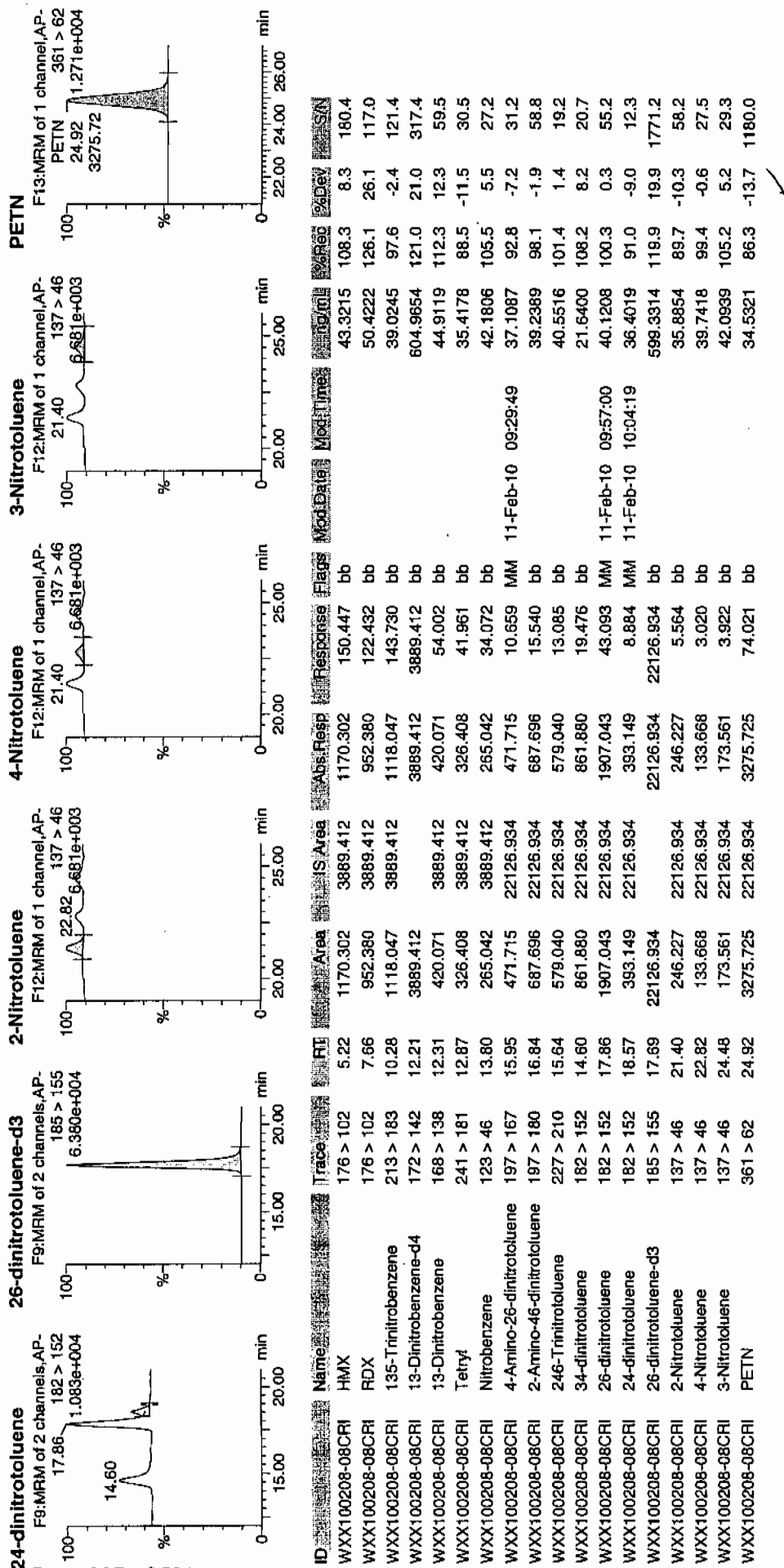
ID: WXX100208-08CRI

Vial: 1:1,C

2/11/10



Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/10/10  
 Time of Injection 1030  
 Standard Number WXX100208-08CRI  
 Data File EXP0208090a

HMX	108.3
RDX	126.1
135-TNB	97.6
13-DNB	112.3
Tetryl	88.5
Nitrobenzene	105.5
4A-26-DNT	92.8
2A-46-DNT	98.1
246-TNT	101.4
34-DNT(surr)	108.2
26-DNT	100.3
24-DNT	91.0
2-NT	89.7
4-NT	99.4
3-NT	105.2
PETN	86.3

*Handwritten:* 100.7  
2/10/10

Total 1610.7

Average 100.7

*Handwritten:* 100.7

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208100a

Analysis Date: 10-FEB-10 15:26

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	588.141	98	
1,3-Dinitrobenzene-d4	500	493.709	99	
2,4,6-Trinitrotoluene	600	720.831	120	*
2,4-Dinitrotoluene	600	626.987	104	
2,6-Dinitrotoluene	600	612.193	102	
2,6-Dinitrotoluene-d3	500	468.676	94	
2-Amino-4,6-dinitrotoluene	600	680.607	113	
3,4-Dinitrotoluene	300	353.233	118	
4-Amino-2,6-dinitrotoluene	600	676.006	113	
HMX	600	642.868	107	
Nitrobenzene	600	663.429	111	
PETN	600	712.886	119	
RDX	600	779.218	130	*
Tetryl	600	638.511	106	
m-Dinitrobenzene	600	612.801	102	
m-Nitrotoluene	600	608.261	101	
o-Nitrotoluene	600	723.623	121	*
p-Nitrotoluene	600	679.247	113	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

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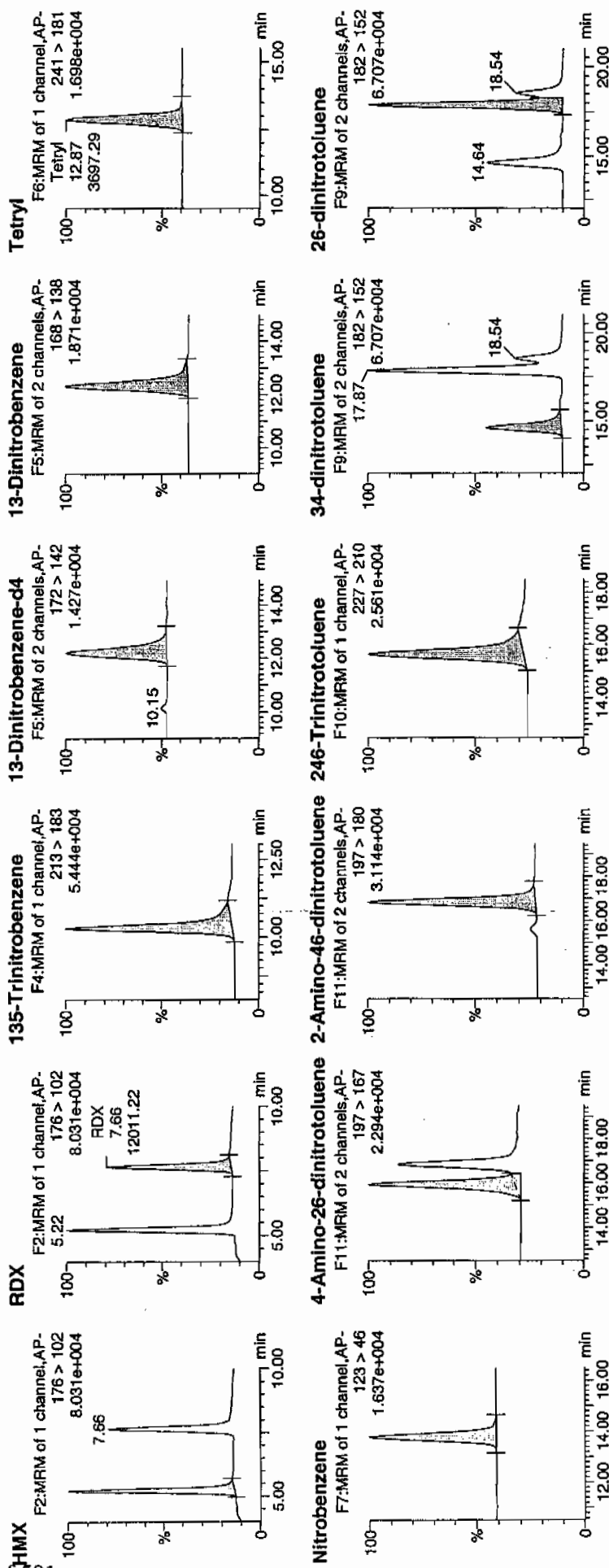
Date: 10-Feb-2010

Time: 15:26:15

ID: WXX100208-07CCV

Vial: 1:1,B

2/11/10



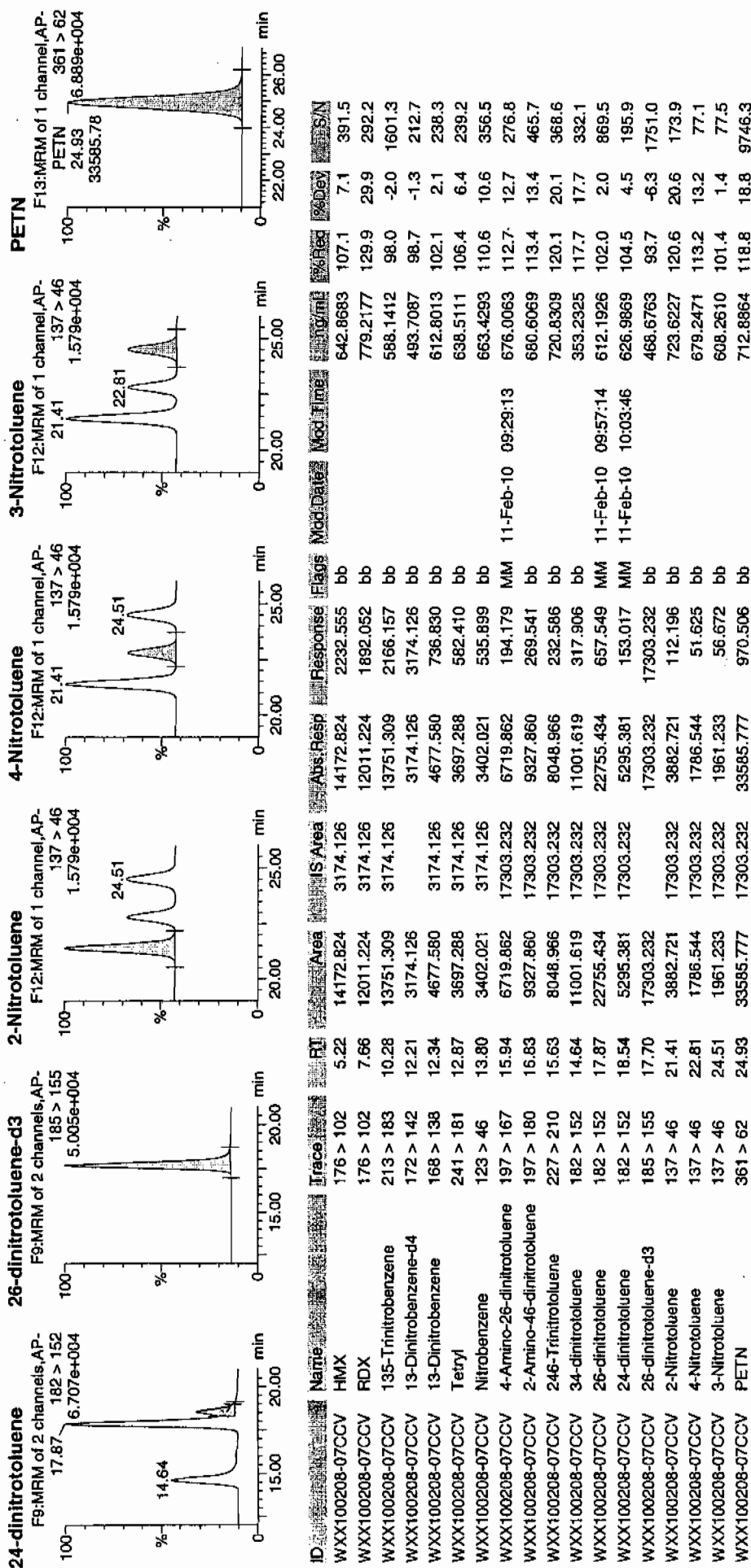
Handwritten signature

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Thu Feb 11 10:09:12 2010, Page 46 of 117

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/10/10  
 Time of Injection: 1526  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208100a

HMX	107.1
RDX	129.9
135-TNB	98.0
13-DNB	102.1
Tetryl	106.4
Nitrobenzene	110.6
4A-26-DNT	112.7
2A-46-DNT	113.4
246-TNT	120.1
34-DNT(surr)	117.7
26-DNT	102.0
24-DNT	104.5
2-NT	120.6
4-NT	113.2
3-NT	101.4
PETN	118.8

*MTT  
2/10/10*

Total 1778.5

Average 111.2

*4/11/10 02/14/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208102a

Analysis Date: 10-FEB-10 16:25

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	40	41.549	104	
PETN	40	52.922	132	*
RDX	40	49.375	123	
Tetryl	40	43.062	108	
m-Dinitrobenzene	40	46.526	116	
m-Nitrotoluene	40	50.438	126	
o-Nitrotoluene	40	44.438	111	
p-Nitrotoluene	40	54.684	137	*
1,3,5-Trinitrobenzene	40	51.131	128	
1,3-Dinitrobenzene-d4	500	552.166	110	
2,4,6-Trinitrotoluene	40	40.399	101	
2,4-Dinitrotoluene	40	39.25	98	
2,6-Dinitrotoluene	40	40.673	102	
2,6-Dinitrotoluene-d3	500	556.942	111	
2-Amino-4,6-dinitrotoluene	40	39.187	98	
3,4-Dinitrotoluene	20	23.623	118	
4-Amino-2,6-dinitrotoluene	40	45.282	113	
HMX	40	50.098	125	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA2.qtd, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP\_PRO\Data\EXP0208102a

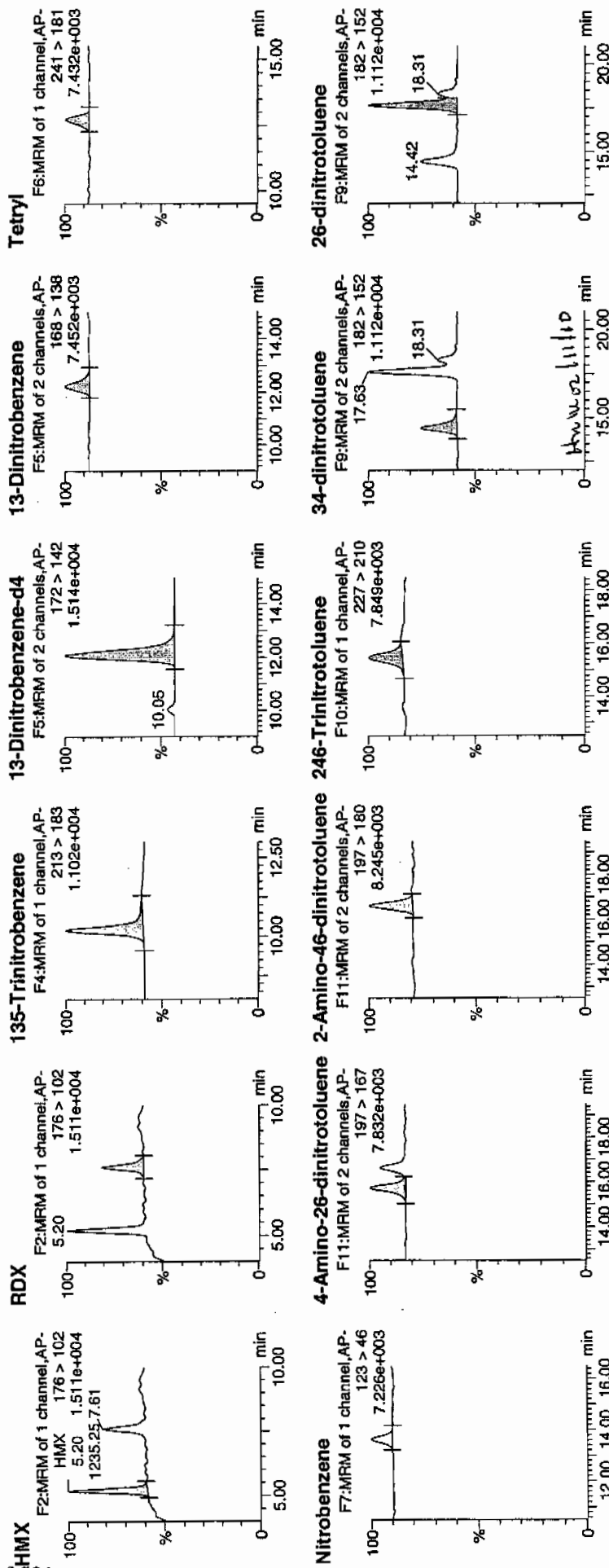
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Time: 16:25:24

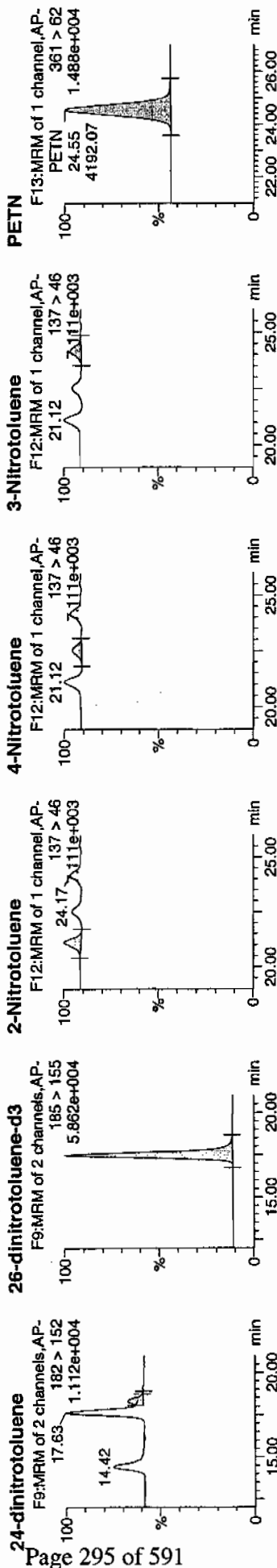
ID: WXX100208-08CRI

Vial: 1:1,C

2/11/10



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qtd, Time: Thu Feb 11 10:06:10 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc	% Rec	% Dev	S/N
WXX100208-08CRI	HMIX	176 > 102	5.20	1235.246	3549.957	1235.246	173.980	bb			50.0980	125.2	25.2	49.5
WXX100208-08CRI	RDX	176 > 102	7.61	851.198	3549.957	851.198	119.888	bb			49.3746	123.4	23.4	25.8
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.21	1337.041	3549.957	1337.041	188.318	bb			51.1309	127.8	27.8	114.5
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.10	3549.957		3549.957	3549.957	bb			552.1661	110.4	10.4	439.4
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.24	397.188	3549.957	397.188	55.943	bb			46.5260	116.3	16.3	33.2
WXX100208-08CRI	Tetryl	241 > 181	12.73	349.726	3549.957	349.726	49.258	bb			43.0620	107.7	7.7	8.0
WXX100208-08CRI	Nitrobenzene	123 > 46	13.62	238.288	3549.957	238.288	33.562	bb			41.5490	103.9	3.9	23.1
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.73	534.904	20561.957	534.904	13.007	MM	11-Feb-10	09:29:08	45.2824	113.2	13.2	36.3
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.62	638.216	20561.957	638.216	15.519	bb			39.1873	98.0	-2.0	70.0
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.48	536.058	20561.957	536.058	13.035	bb			40.3987	101.0	1.0	34.2
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.42	874.296	20561.957	874.296	21.260	bb			23.6225	118.1	18.1	53.8
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.63	1796.544	20561.957	1796.544	43.686	MM	11-Feb-10	09:57:21	40.6728	101.7	1.7	132.7
WXX100208-08CRI	24-dinitrotoluene	182 > 152	18.31	393.929	20561.957	393.929	9.579	MM	11-Feb-10	10:03:38	39.2502	98.1	-1.9	27.1
WXX100208-08CRI	26-dinitrotoluene-c3	185 > 155	17.48	20561.957		20561.957	20561.957	bb			556.9424	111.4	11.4	1502.8
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.12	283.344	20561.957	283.344	6.890	bb			44.4378	111.1	11.1	16.6
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.52	170.915	20561.957	170.915	4.156	bb			54.6836	136.7	36.7	8.9
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.17	193.256	20561.957	193.256	4.699	bb			50.4379	126.1	26.1	10.4
WXX100208-08CRI	PETN	361 > 62	24.55	4192.072	20561.957	4192.072	101.938	bb			52.9217	132.3	32.3	95.8

✓

GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/10/10  
 Time of Injection 1625  
 Standard Number WXX100208-08CRI  
 Data File EXP0208102a

HMX	125.2
RDX	123.4
135-TNB	127.8
13-DNB	116.3
Tetryl	107.7
Nitrobenzene	103.9
4A-26-DNT	113.2
2A-46-DNT	98.0
246-TNT	101.0
34-DNT(surr)	118.1
26-DNT	101.7
24-DNT	98.1
2-NT	111.1
4-NT	136.7
3-NT	126.1
PETN	132.3

*1625  
2/10/10*

Total 1840.6

Average 115.0

*115.0*

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208113a

Analysis Date: 10-FEB-10 21:49

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	544.446	109	
2,4,6-Trinitrotoluene	600	662.584	110	
2,4-Dinitrotoluene	600	622.26	104	
2,6-Dinitrotoluene	600	605.94	101	
2,6-Dinitrotoluene-d3	500	509.3	102	
2-Amino-4,6-dinitrotoluene	600	677.413	113	
3,4-Dinitrotoluene	300	360.847	120	*
4-Amino-2,6-dinitrotoluene	600	606.515	101	
HMX	600	457.053	76	*
Nitrobenzene	600	682.529	114	
PETN	600	766.444	128	*
RDX	600	531.11	89	
Tetryl	600	667.741	111	
m-Dinitrobenzene	600	605.726	101	
m-Nitrotoluene	600	571.845	95	
o-Nitrotoluene	600	710.721	118	
p-Nitrotoluene	600	645.626	108	
1,3,5-Trinitrobenzene	600	530.336	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 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP\_PRO\Data\EXP0208113a

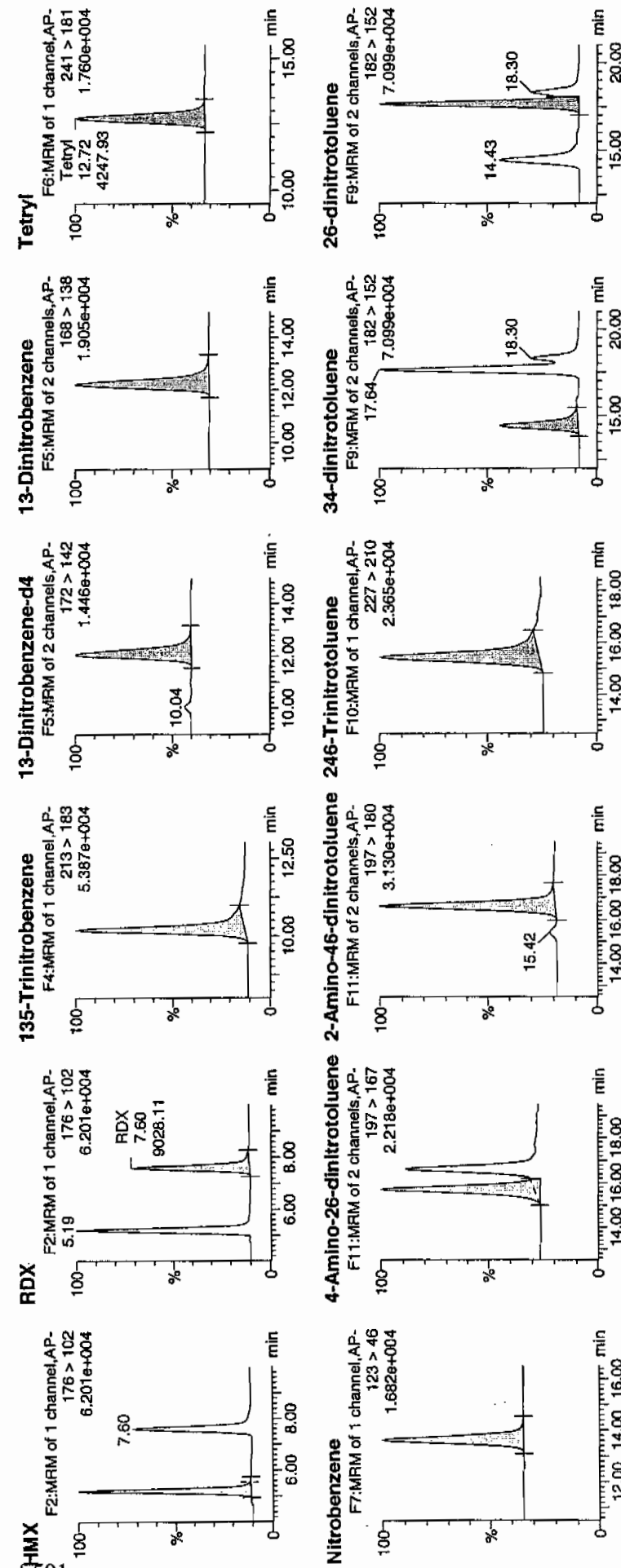
Date: 10-Feb-2010

Time: 21:49:41

ID: WXX100208-07CCV

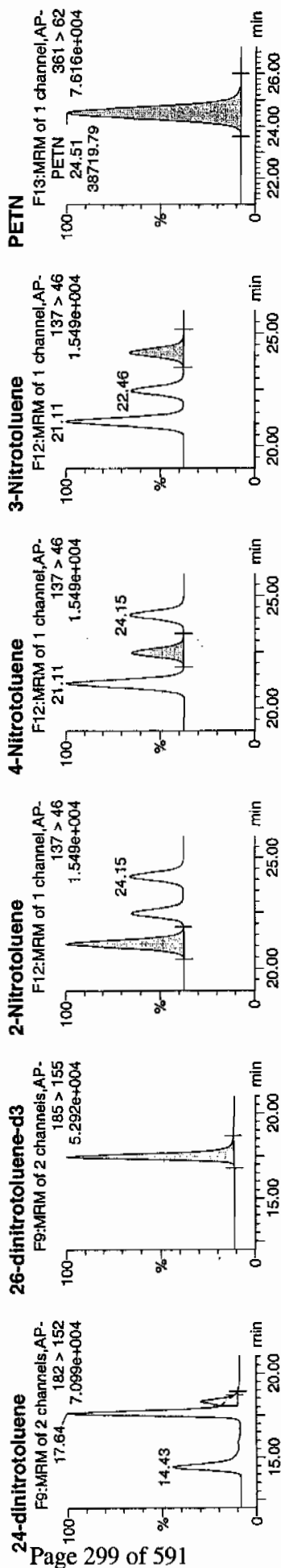
Vial: 1:1,B

WXX  
2/11/10



WXX  
2/11/10

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area (nm)	% Rec	% Dev	SN
WXX100208-07CCV	HMX	176 > 102	5.19	11111.813	3500.323	11111.813	1587.255	MM	11-Feb-10	09:22:41	457.0530	76.2	-23.8	909.8
WXX100208-07CCV	RDX	176 > 102	7.60	9028.113	3500.323	9028.113	1289.611	bb			531.1101	88.5	-11.5	624.4
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.19	13674.052	3500.323	13674.052	1953.256	bb			530.3356	88.4	-11.6	1522.7
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3500.323	3500.323	3500.323	3500.323	bb			544.4459	108.9	8.9	256.5
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.20	5098.727	3500.323	5098.727	728.322	bb			605.7261	101.0	1.0	348.3
WXX100208-07CCV	Tetryl	241 > 181	12.72	4247.931	3500.323	4247.931	606.791	bb			667.7411	111.3	11.3	340.8
WXX100208-07CCV	Nitrobenzene	123 > 46	13.63	3859.643	3500.323	3859.643	551.327	bb			682.5286	113.8	13.8	424.7
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.71	6551.677	18803.047	6551.677	174.218	MM	11-Feb-10	09:28:18	606.5155	101.1	1.1	227.0
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.63	10088.809	18803.047	10088.809	288.276	bb			677.4125	112.9	12.9	1285.0
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.45	8039.858	18803.047	8039.858	213.791	bb			662.5836	110.4	10.4	1020.2
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.43	12212.950	18803.047	12212.950	324.760	bb			360.8475	120.3	20.3	403.2
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.64	24475.283	18803.047	24475.283	650.833	MM	11-Feb-10	09:58:14	605.9401	101.0	1.0	1031.4
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.30	5710.992	18803.047	5710.992	151.863	MM	11-Feb-10	10:02:38	622.2599	103.7	3.7	227.7
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.47	18803.047	18803.047	18803.047	18803.047	bb			509.3004	101.9	1.9	2085.5
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.11	4144.045	18803.047	4144.045	110.196	bb			710.7215	118.5	18.5	1154.1
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.46	1845.305	18803.047	1845.305	49.069	bb			645.6263	107.6	7.6	501.6
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.15	2003.635	18803.047	2003.635	53.280	bb			571.8451	95.3	-4.7	521.6
WXX100208-07CCV	PETN	361 > 62	24.51	38719.785	18803.047	38719.785	1029.615	bb			766.4443	127.7	27.7	6959.9

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/10/10  
 Time of Injection: 2149  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208113a

HMX	76.2
RDX	88.5
135-TNB	88.4
13-DNB	101.0
Tetryl	111.3
Nitrobenzene	113.8
4A-26-DNT	101.1
2A-46-DNT	112.9
246-TNT	110.4
34-DNT(surr)	120.3
26-DNT	101.0
24-DNT	103.7
2-NT	118.5
4-NT	107.6
3-NT	95.3
PETN	127.7

*WHT  
2/11/10*

Total 1677.7

Average 104.9

*WHT 02/11/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208115a

Analysis Date: 10-FEB-10 22:48

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	53.258	133	*
1,3-Dinitrobenzene-d4	500	607.853	122	
2,4,6-Trinitrotoluene	40	34.757	87	
2,4-Dinitrotoluene	40	40.974	102	
2,6-Dinitrotoluene	40	39.436	99	
2,6-Dinitrotoluene-d3	500	647.378	129	
2-Amino-4,6-dinitrotoluene	40	50.465	126	
3,4-Dinitrotoluene	20	21.441	107	
4-Amino-2,6-dinitrotoluene	40	44.161	110	
HMX	40	41.129	103	
Nitrobenzene	40	45.384	113	
PETN	40	35.443	89	
RDX	40	28.151	70	
Tetryl	40	44.571	111	
m-Dinitrobenzene	40	32.285	81	
m-Nitrotoluene	40	41.138	103	
o-Nitrotoluene	40	42.41	106	
p-Nitrotoluene	40	44.813	112	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208115a

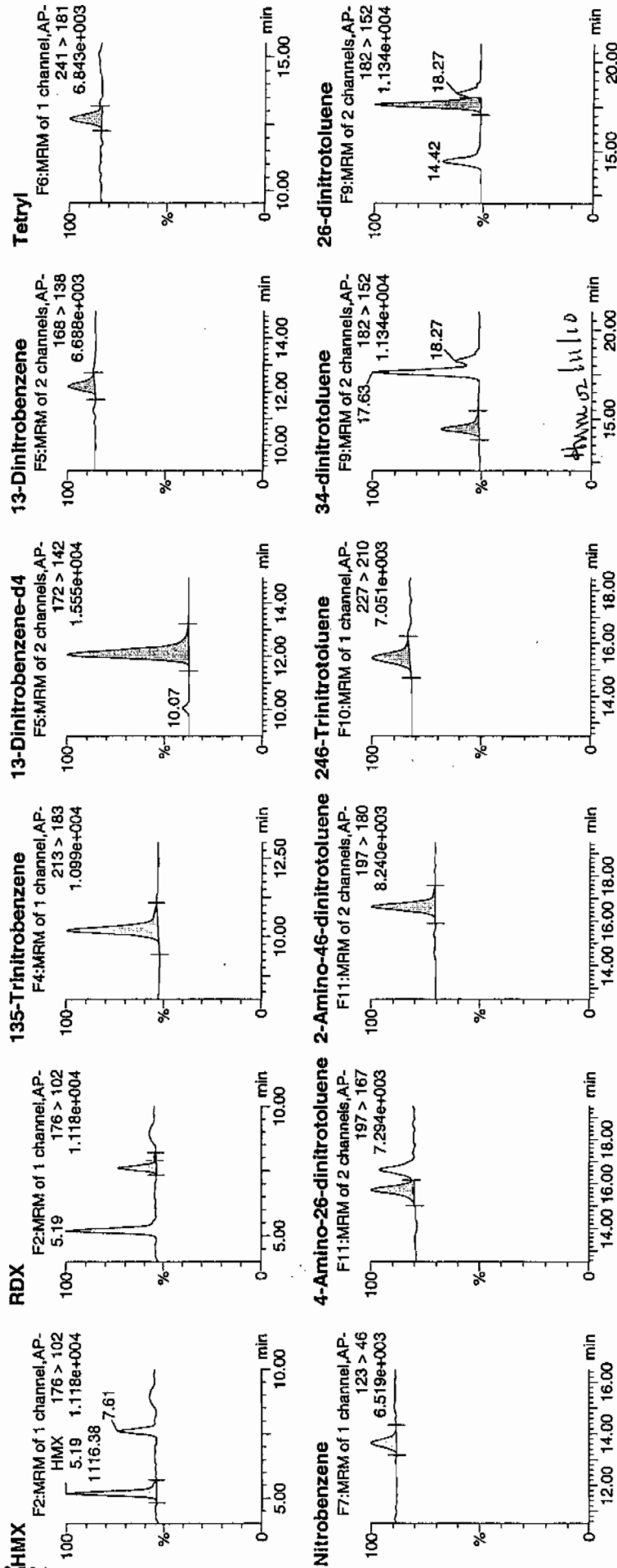
Date: 10-Feb-2010

Time: 22:48:43

ID: WXX100208-08CRI

Vial: 1:1,C

10/10

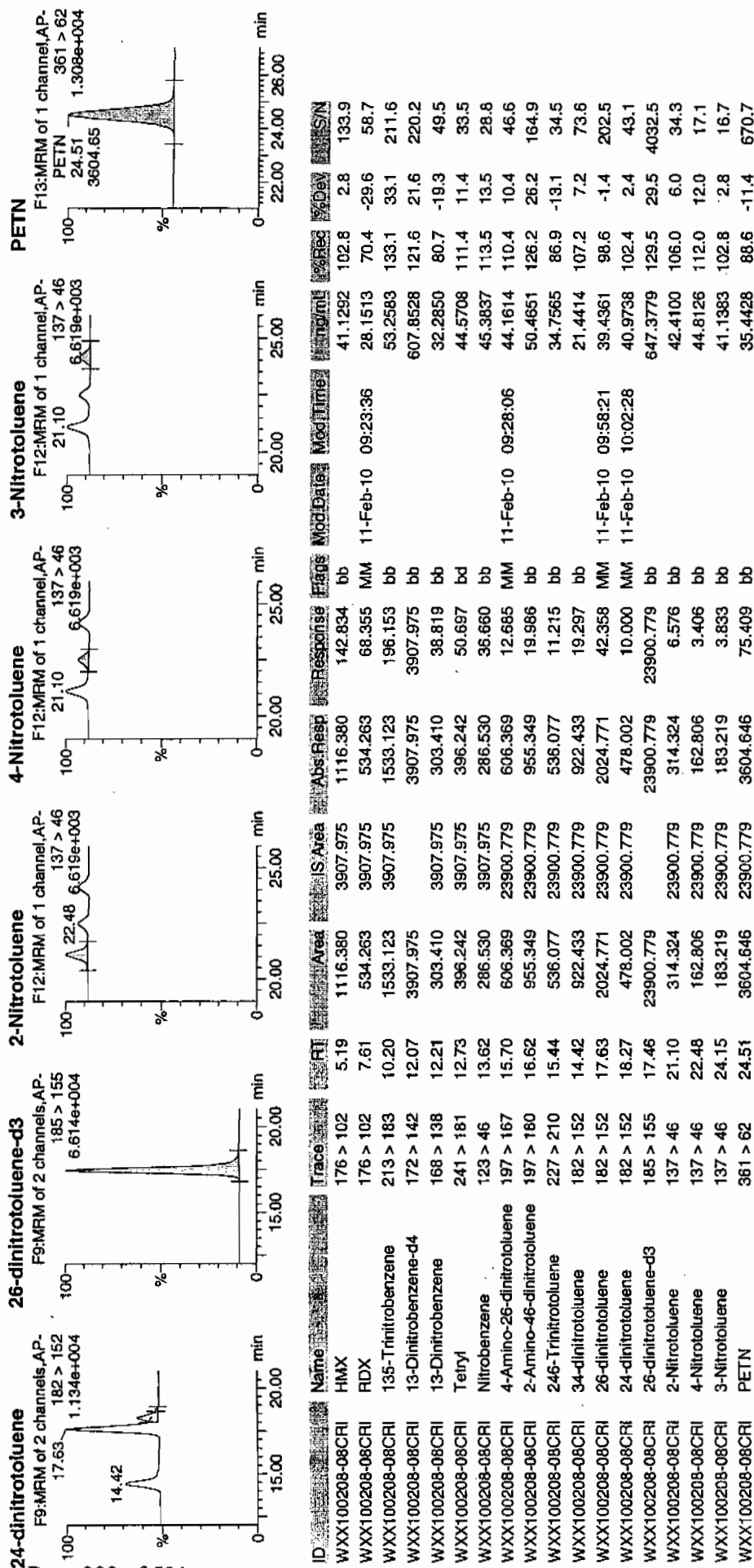


# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Thu Feb 11 10:09:12 2010, Page 76 of 117

Dataset: C:\MASSLYNX\New\_Exp\PRO1020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/10/10  
 Time of Injection 2248  
 Standard Number WXX100208-08CRI  
 Data File EXP0208115a

HMX	102.8
RDX	70.4
135-TNB	133.1
13-DNB	80.7
Tetryl	111.4
Nitrobenzene	113.5
4A-26-DNT	110.4
2A-46-DNT	126.2
246-TNT	86.9
34-DNT(surr)	107.2
26-DNT	98.6
24-DNT	102.4
2-NT	106.0
4-NT	112.0
3-NT	102.8
PETN	88.6

*MAF  
2/11/10*

Total 1653.0

Average 103.3

*Sum of 11/10*

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208120a

Analysis Date: 11-FEB-10 01:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	664	111	
RDX	600	639.449	107	
Tetryl	600	673.554	112	
m-Dinitrobenzene	600	598.675	100	
m-Nitrotoluene	600	443.701	74	*
o-Nitrotoluene	600	445.632	74	*
p-Nitrotoluene	600	466.419	78	*
1,3,5-Trinitrobenzene	600	597.957	100	
1,3-Dinitrobenzene-d4	500	521.607	104	
2,4,6-Trinitrotoluene	600	672.377	112	
2,4-Dinitrotoluene	600	600.43	100	
2,6-Dinitrotoluene	600	601.181	100	
2,6-Dinitrotoluene-d3	500	584.444	117	
2-Amino-4,6-dinitrotoluene	600	681.8	114	
3,4-Dinitrotoluene	300	325.104	108	
4-Amino-2,6-dinitrotoluene	600	602.251	100	
HMX	600	566.092	94	
Nitrobenzene	600	695.908	116	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208120a

Date: 11-Feb-2010

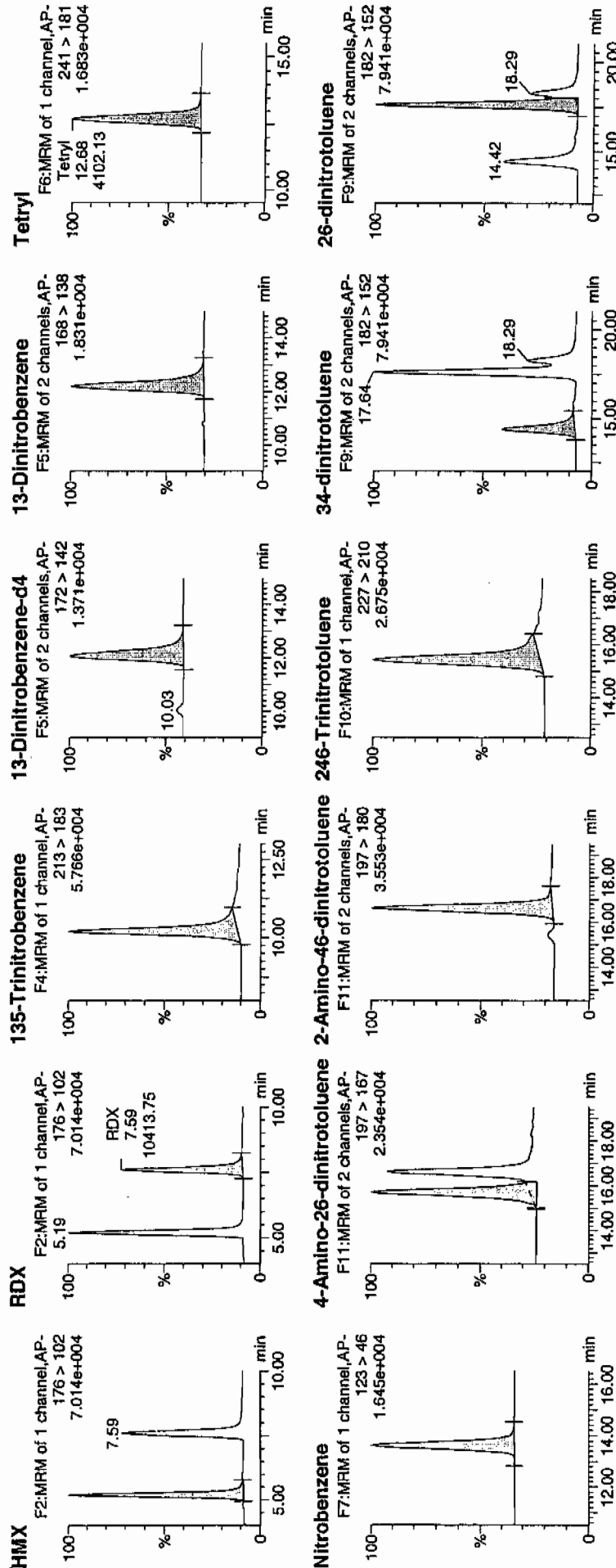
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ID: WXX100208-07CCV

Vial: 1:1,B

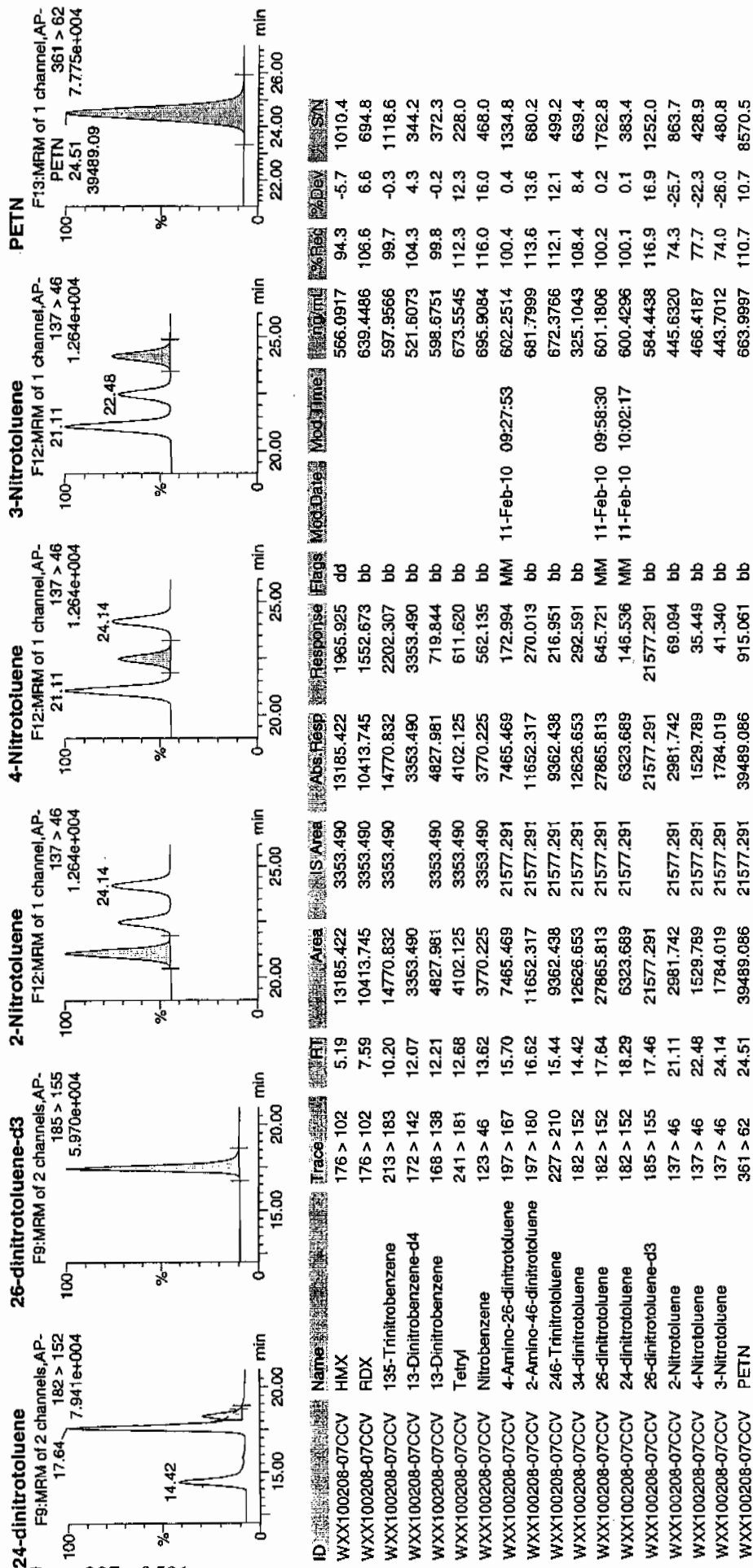
7/11/10  
AP

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4/11/10  
AP

Dataset: C:\MASSLYNX\New\_Exp\PRO020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/11/10  
 Time of Injection: 0116  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208120a

HMX	94.3
RDX	106.6
135-TNB	99.7
13-DNB	99.8
Tetryl	112.3
Nitrobenzene	116.0
4A-26-DNT	100.4
2A-46-DNT	113.6
246-TNT	112.1
34-DNT(surr)	108.4
26-DNT	100.2
24-DNT	100.1
2-NT	74.3
4-NT	77.7
3-NT	74.0
PETN	110.7

*HP  
2/11/10*

Total 1600.2

Average 100.0

*HP 02/11/10*  
 ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208122a

Analysis Date: 11-FEB-10 02:15

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	40	34.151	85	
2,6-Dinitrotoluene	40	39.253	98	
2,6-Dinitrotoluene-d3	500	559.761	112	
2-Amino-4,6-dinitrotoluene	40	40.238	101	
3,4-Dinitrotoluene	20	23.425	117	
4-Amino-2,6-dinitrotoluene	40	39.856	100	
HMX	40	45.073	113	
Nitrobenzene	40	45.235	113	
PETN	40	55.232	138	*
RDX	40	38.842	97	
Tetryl	40	46.548	116	
m-Dinitrobenzene	40	42.593	106	
m-Nitrotoluene	40	29.791	74	
o-Nitrotoluene	40	36.689	92	
p-Nitrotoluene	40	37.057	93	
1,3,5-Trinitrobenzene	40	54.242	136	*
1,3-Dinitrobenzene-d4	500	481.604	96	
2,4,6-Trinitrotoluene	40	39.518	99	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA2.qtd, Time: Thu Feb 11 10:06:10 2010

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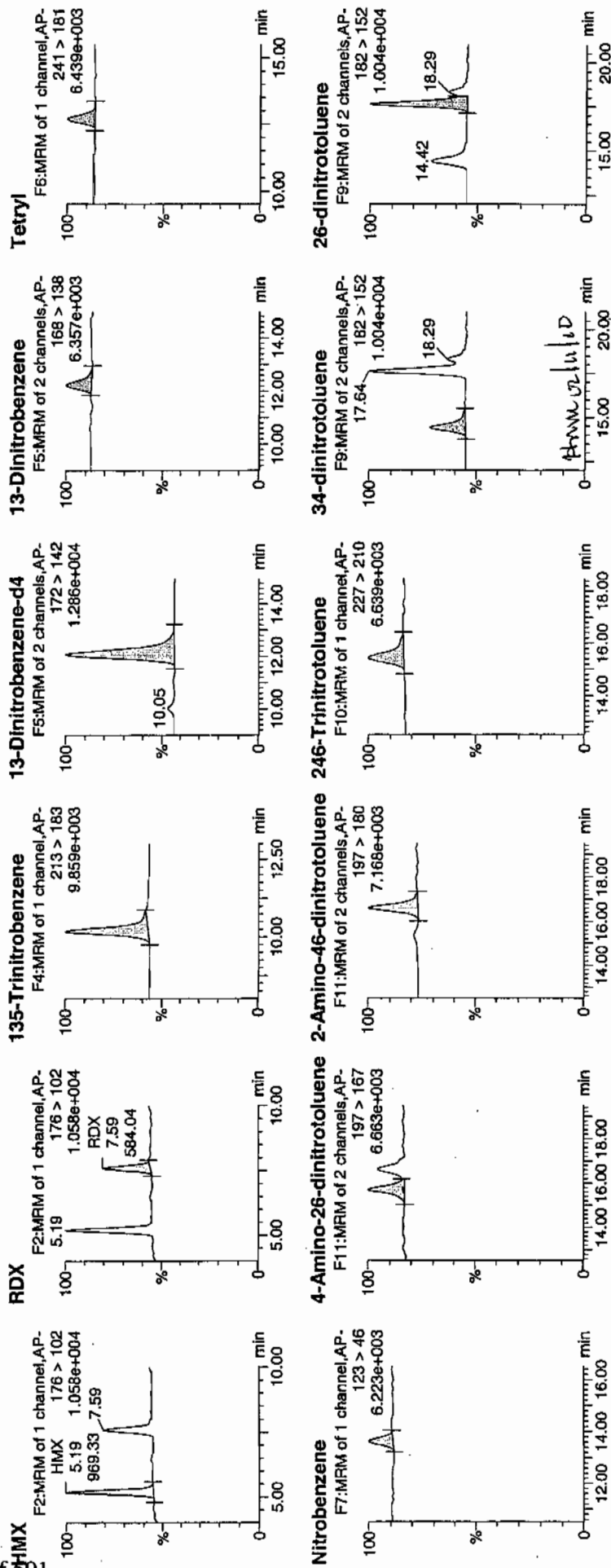
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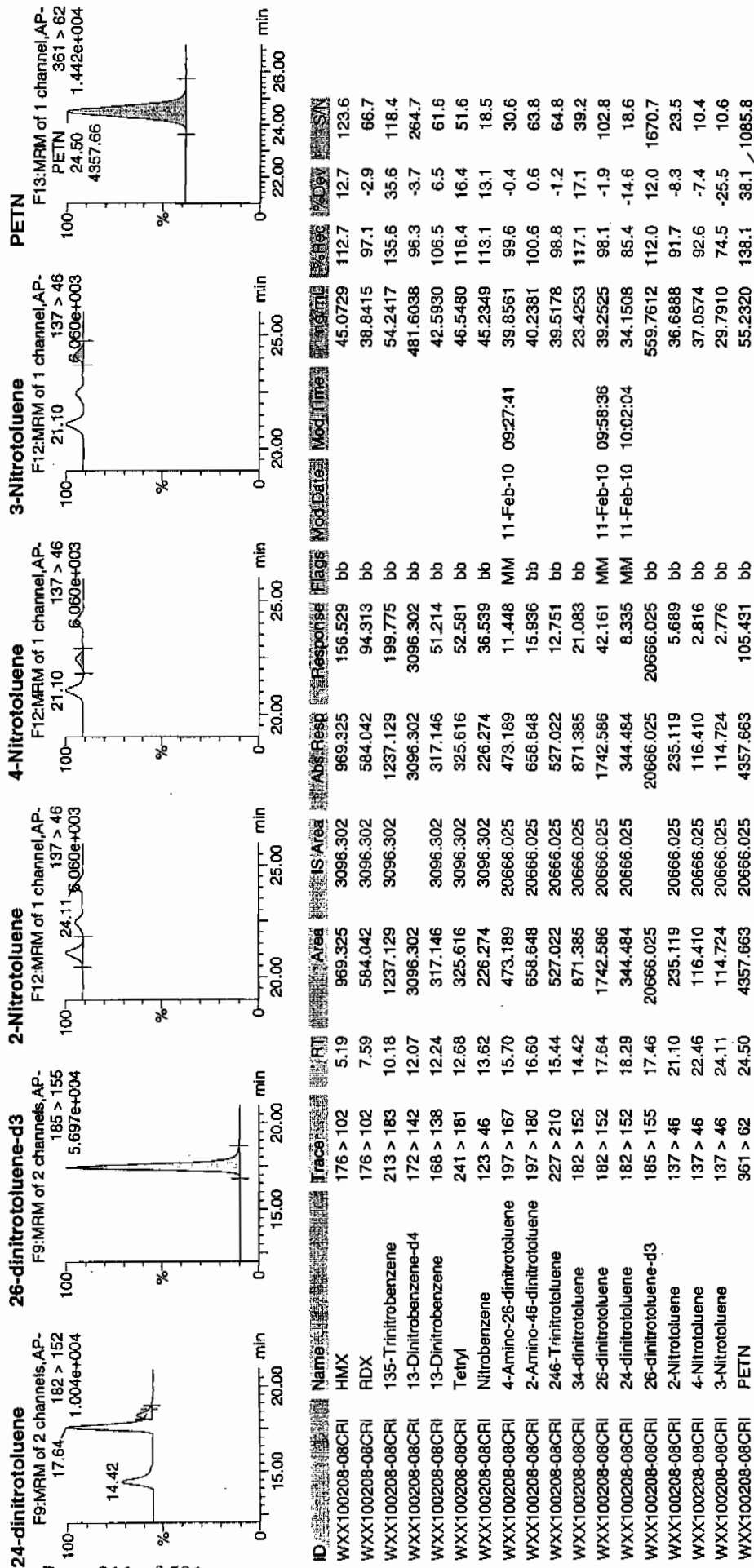
ID: WXX100208-08CRI

Vial: 1:1,C

of 591



Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA2.qtd, Time: Thu Feb 11 10:06:10 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/11/10  
 Time of Injection 0215  
 Standard Number WXX100208-08CRI  
 Data File EXP0208122a

HMX	112.7
RDX	97.1
135-TNB	135.6
13-DNB	106.5
Tetryl	116.4
Nitrobenzene	113.1
4A-26-DNT	99.6
2A-46-DNT	100.6
246-TNT	98.8
34-DNT(surr)	117.1
26-DNT	98.1
24-DNT	85.4
2-NT	91.7
4-NT	92.6
3-NT	74.5
PETN	138.1

*Handwritten:* 104.9  
2/11/10

Total 1677.9

Average 104.9

*Handwritten:* 104.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208133a

Analysis Date: 11-FEB-10 07:39

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	561.952	94	
1,3-Dinitrobenzene-d4	500	523.69	105	
2,4,6-Trinitrotoluene	600	625.562	104	
2,4-Dinitrotoluene	600	646.957	108	
2,6-Dinitrotoluene	600	613.147	102	
2,6-Dinitrotoluene-d3	500	492.682	99	
2-Amino-4,6-dinitrotoluene	600	615.832	103	
3,4-Dinitrotoluene	300	315.478	105	
4-Amino-2,6-dinitrotoluene	600	605.241	101	
HMX	600	599.884	100	
Nitrobenzene	600	602.444	100	
PETN	600	821.24	137	*
RDX	600	656.741	109	
Tetryl	600	623.813	104	
m-Dinitrobenzene	600	590.781	98	
m-Nitrotoluene	600	582.434	97	
o-Nitrotoluene	600	639.153	107	
p-Nitrotoluene	600	652.124	109	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

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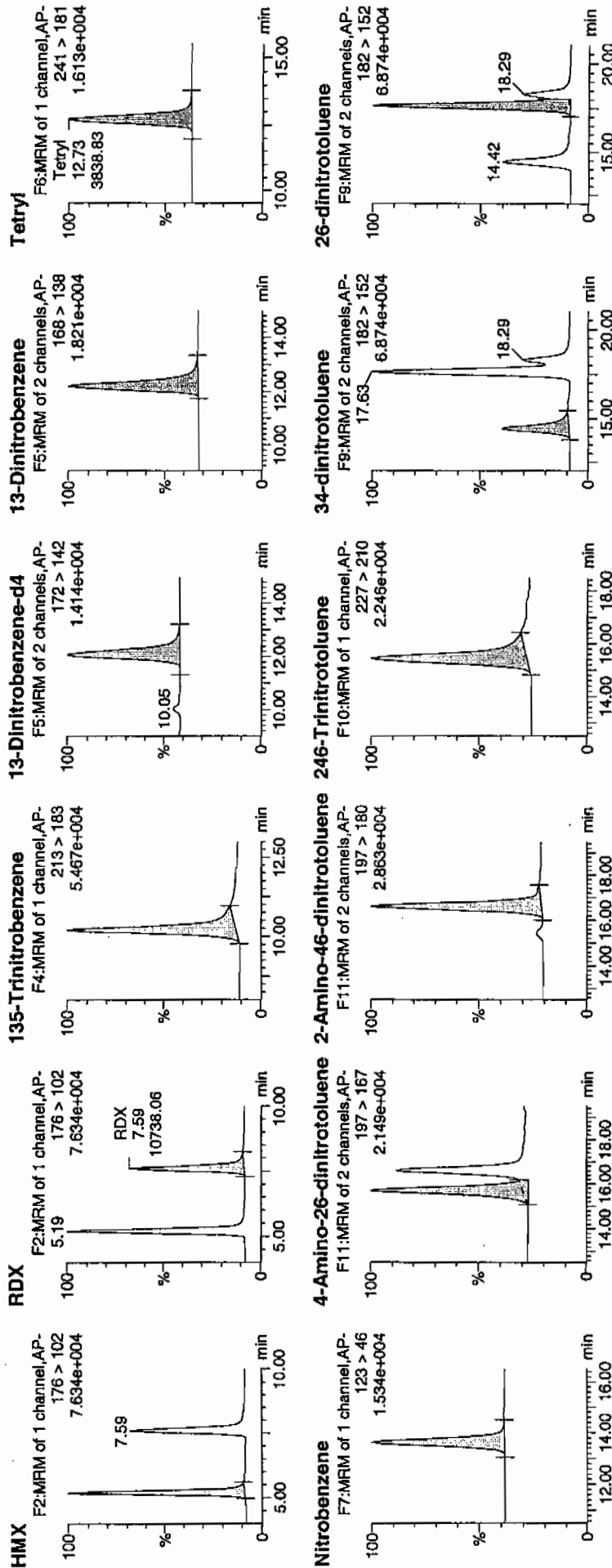
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Time: 07:39:41

ID: WXX100208-07CCV

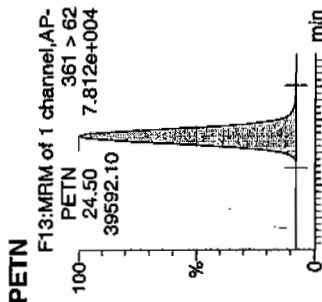
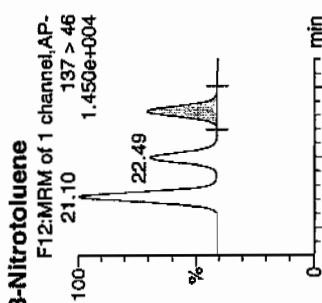
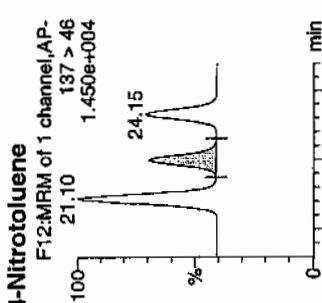
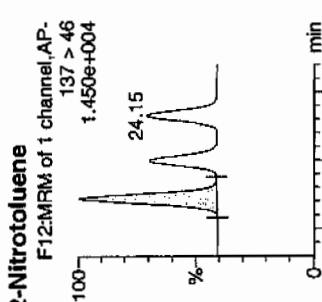
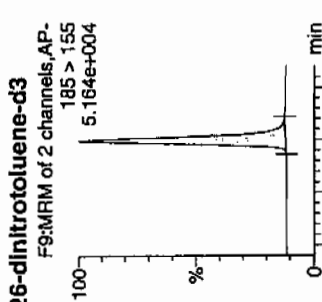
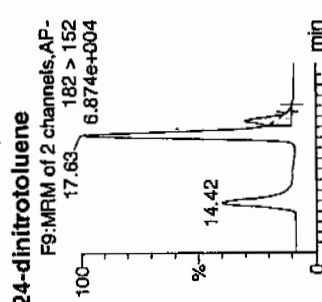
Vial: 1:1,B

100%  
2/11/10



100%  
2/11/10

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

24-dinitrotoluene									
F9:MRM of 2 channels, AP- 182 > 152 6.874e+004									
									
26-dinitrotoluene-d3									
F9:MRM of 2 channels, AP- 185 > 155 5.164e+004									
									
2-Nitrotoluene									
F12:MRM of 1 channel, AP- 137 > 46 1.450e+004									
									
4-Nitrotoluene									
F12:MRM of 1 channel, AP- 137 > 46 1.450e+004									
									
3-Nitrotoluene									
F12:MRM of 1 channel, AP- 137 > 46 1.450e+004									
									
PETN									
F13:MRM of 1 channel, AP- 361 > 62 7.812e+004									
									
ID	Name	Trace	RT	Area	S Area	Abs. Resp	Resp	Mod	Mod Date
WXX100208-07CCV	HMX	176 > 102	5.19	14028.293	3366.877	14028.293	2083.280	bb	599.8841
WXX100208-07CCV	RDX	176 > 102	7.59	10738.060	3366.877	10738.060	1594.662	bb	656.7412
WXX100208-07CCV	135-Trinitrobenzene	213 > 183	10.20	13936.843	3366.877	13936.843	2069.699	bb	561.9515
WXX100208-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3366.877	3366.877	3366.877	3366.877	bb	523.6895
WXX100208-07CCV	13-Dinitrobenzene	168 > 138	12.21	4783.337	3366.877	4783.337	710.352	bb	590.7808
WXX100208-07CCV	Tetryl	241 > 181	12.73	3838.826	3366.877	3838.826	570.087	bb	623.8127
WXX100208-07CCV	Nitrobenzene	123 > 46	13.62	3276.893	3366.877	3276.893	486.637	bb	602.4442
WXX100208-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.70	6324.586	18189.516	6324.586	173.853	MM	605.2414
WXX100208-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.62	8872.409	18189.516	8872.409	243.888	bb	615.8316
WXX100208-07CCV	246-Trinitrotoluene	227 > 210	15.44	7342.954	18189.516	7342.954	201.846	bb	625.5618
WXX100208-07CCV	34-dinitrotoluene	182 > 152	14.42	10329.003	18189.516	10329.003	283.927	bb	315.4776
WXX100208-07CCV	26-dinitrotoluene	182 > 152	17.63	23958.285	18189.516	23958.285	658.574	MM	613.1472
WXX100208-07CCV	24-dinitrotoluene	182 > 152	18.29	5743.919	18189.516	5743.919	157.891	MM	646.9574
WXX100208-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	18189.516	18189.516	18189.516	18189.516	bb	492.6823
WXX100208-07CCV	2-Nitrotoluene	137 > 46	21.10	3605.144	18189.516	3605.144	99.100	bb	638.1528
WXX100208-07CCV	4-Nitrotoluene	137 > 46	22.49	1803.060	18189.516	1803.060	49.563	bb	652.1242
WXX100208-07CCV	3-Nitrotoluene	137 > 46	24.15	1974.147	18189.516	1974.147	54.266	bb	582.4335
WXX100208-07CCV	PETN	361 > 62	24.50	39592.102	18189.516	39592.102	1088.322	bb	821.2402
									136.9
									36.9
									10580.3

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/11/10  
 Time of Injection: 0739  
 Standard Number: WXX100208-07CCV  
 Data File: EXP0208133a

HMX	100.0
RDX	109.5
135-TNB	93.7
13-DNB	98.5
Tetryl	104.0
Nitrobenzene	100.4
4A-26-DNT	100.9
2A-46-DNT	102.6
246-TNT	104.3
34-DNT(surr)	105.2
26-DNT	102.2
24-DNT	107.8
2-NT	106.5
4-NT	108.7
3-NT	97.1
PETN	136.9

*WXX  
2/11/10*

Total 1678.3

Average 104.9

*Home of 11/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208135a

Analysis Date: 11-FEB-10 08:38

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	40	42.077	105	
m-Nitrotoluene	40	34.831	87	
o-Nitrotoluene	40	41.028	103	
p-Nitrotoluene	40	39.414	99	
1,3,5-Trinitrobenzene	40	53.251	133	*
1,3-Dinitrobenzene-d4	500	496.238	99	
2,4,6-Trinitrotoluene	40	32.077	80	
2,4-Dinitrotoluene	40	41.206	103	
2,6-Dinitrotoluene	40	39.051	98	
2,6-Dinitrotoluene-d3	500	591.836	118	
2-Amino-4,6-dinitrotoluene	40	38.537	96	
3,4-Dinitrotoluene	20	20.304	102	
4-Amino-2,6-dinitrotoluene	40	41.968	105	
HMX	40	48.07	120	
Nitrobenzene	40	41.966	105	
PETN	40	55.176	138	*
RDX	40	47.02	118	
Tetryl	40	49.996	125	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208135a

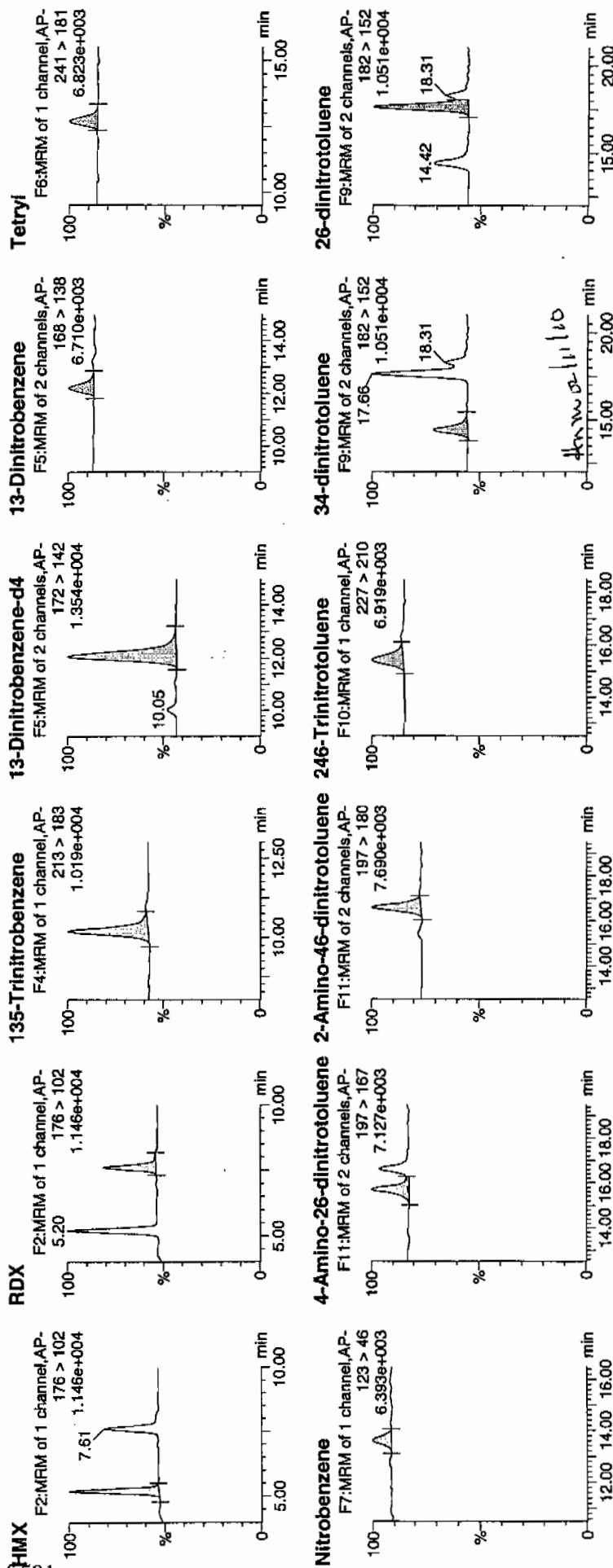
Date: 11-Feb-2010

Time: 08:38:44

ID: WXX100208-08CRI

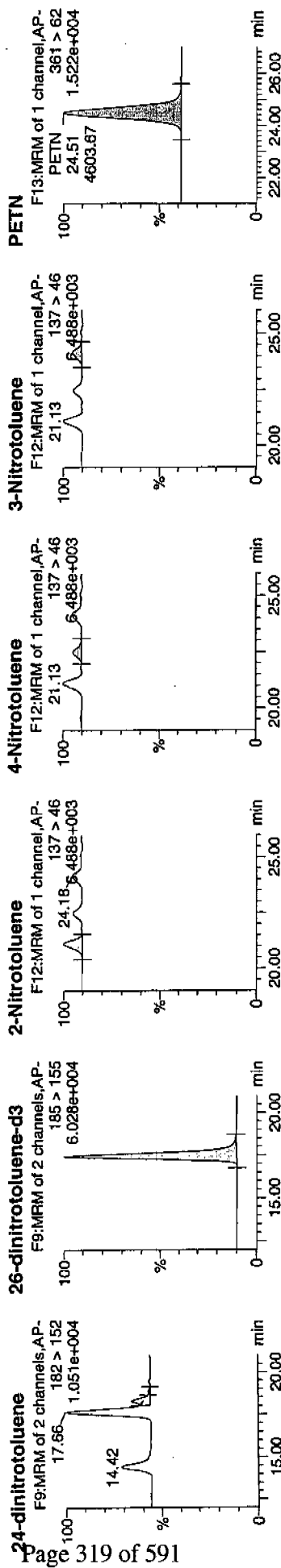
Vial: 1:1,C

2/11/10



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA2.qld, Time: Thu Feb 11 10:06:10 2010



ID	Name	Trace	RT	Area	S:Area	Abst:Resp	Response	Flags	Mod:Date	Mod:Time	Area:ML	%Rec	Abv	SN
WXX100208-08CRI	HMX	176 > 102	5.20	1065.193	3190.386	1065.193	166.938	bb			48.0701	120.2	20.2	123.2
WXX100208-08CRI	RDX	176 > 102	7.61	728.502	3190.386	728.502	114.171	bb			47.0201	117.6	17.6	72.9
WXX100208-08CRI	135-Trinitrobenzene	213 > 183	10.20	1251.430	3190.386	1251.430	196.125	bb			53.2507	133.1	33.1	453.1
WXX100208-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	3190.386		3190.386	3190.386	bb			496.2378	99.2	-0.8	601.5
WXX100208-08CRI	13-Dinitrobenzene	168 > 138	12.21	322.827	3190.386	322.827	50.594	bb			42.0774	105.2	5.2	32.7
WXX100208-08CRI	Tetryl	241 > 181	12.73	356.470	3190.386	356.470	55.866	bb			49.9957	125.0	25.0	24.8
WXX100208-08CRI	Nitrobenzene	123 > 46	13.62	216.302	3190.386	216.302	33.899	bb			41.9662	104.9	4.9	17.6
WXX100208-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.73	526.807	21850.213	526.807	12.055	MM	11-Feb-10	09:26:46	41.9675	104.9	4.9	25.3
WXX100208-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.62	666.954	21850.213	666.954	15.262	bb			38.5373	96.3	-3.7	113.0
WXX100208-08CRI	246-Trinitrotoluene	227 > 210	15.44	452.304	21850.213	452.304	10.350	bb			32.0771	80.2	-19.8	83.9
WXX100208-08CRI	34-dinitrotoluene	182 > 152	14.42	798.569	21850.213	798.569	18.274	bb			20.3043	101.5	1.5	44.1
WXX100208-08CRI	26-dinitrotoluene	182 > 152	17.66	1832.985	21850.213	1832.985	41.944	MM	11-Feb-10	09:59:36	39.0511	97.6	-2.4	123.9
WXX100208-08CRI	26-dinitrotoluene	182 > 152	18.31	439.472	21850.213	439.472	10.056	MM	11-Feb-10	10:01:11	41.2063	103.0	3.0	27.8
WXX100208-08CRI	26-dinitrotoluene-d3	185 > 155	17.46	21850.213		21850.213	21850.213	bb			591.8361	118.4	18.4	1782.6
WXX100208-08CRI	2-Nitrotoluene	137 > 46	21.13	277.990	21850.213	277.990	6.361	bb			41.0277	102.6	2.6	61.2
WXX100208-08CRI	4-Nitrotoluene	137 > 46	22.50	130.906	21850.213	130.906	2.996	bb			39.4135	98.5	-1.5	27.6
WXX100208-08CRI	3-Nitrotoluene	137 > 46	24.18	141.817	21850.213	141.817	3.245	bb			34.8306	87.1	-12.9	29.5
WXX100208-08CRI	PETN	361 > 62	24.51	4603.666	21850.213	4603.666	105.346	bb			55.1761	137.9	37.9	894.2

GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/11/10  
 Time of Injection 0838  
 Standard Number WXX100208-08CRI  
 Data File EXP0208135a

HMX	120.2
RDX	117.6
135-TNB	133.1
13-DNB	105.2
Tetryl	125.0
Nitrobenzene	104.9
4A-26-DNT	104.9
2A-46-DNT	96.3
246-TNT	80.2
34-DNT(surr)	101.5
26-DNT	97.6
24-DNT	103.0
2-NT	102.6
4-NT	98.5
3-NT	87.1
PETN	137.9

*WTF  
2/11/10*

Total 1715.6

Average 107.2

*WTF 2/11/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208145a

Analysis Date: 11-FEB-10 13:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	643.853	107	
2,6-Dinitrotoluene	600	629.897	105	
2,6-Dinitrotoluene-d3	500	498.486	100	
2-Amino-4,6-dinitrotoluene	600	648.791	108	
3,4-Dinitrotoluene	300	324.255	108	
4-Amino-2,6-dinitrotoluene	600	603.46	101	
HMX	600	583.237	97	
Nitrobenzene	600	623.611	104	
PETN	600	723.874	121	*
RDX	600	637.14	106	
Tetryl	600	617.261	103	
m-Dinitrobenzene	600	611.284	102	
m-Nitrotoluene	600	566.246	94	
o-Nitrotoluene	600	608.792	101	
p-Nitrotoluene	600	612.602	102	
1,3,5-Trinitrobenzene	600	559.95	93	
1,3-Dinitrobenzene-d4	500	507.071	101	
2,4,6-Trinitrotoluene	600	636.938	106	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qtd, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP\_PRO\Data\EXP0208145a

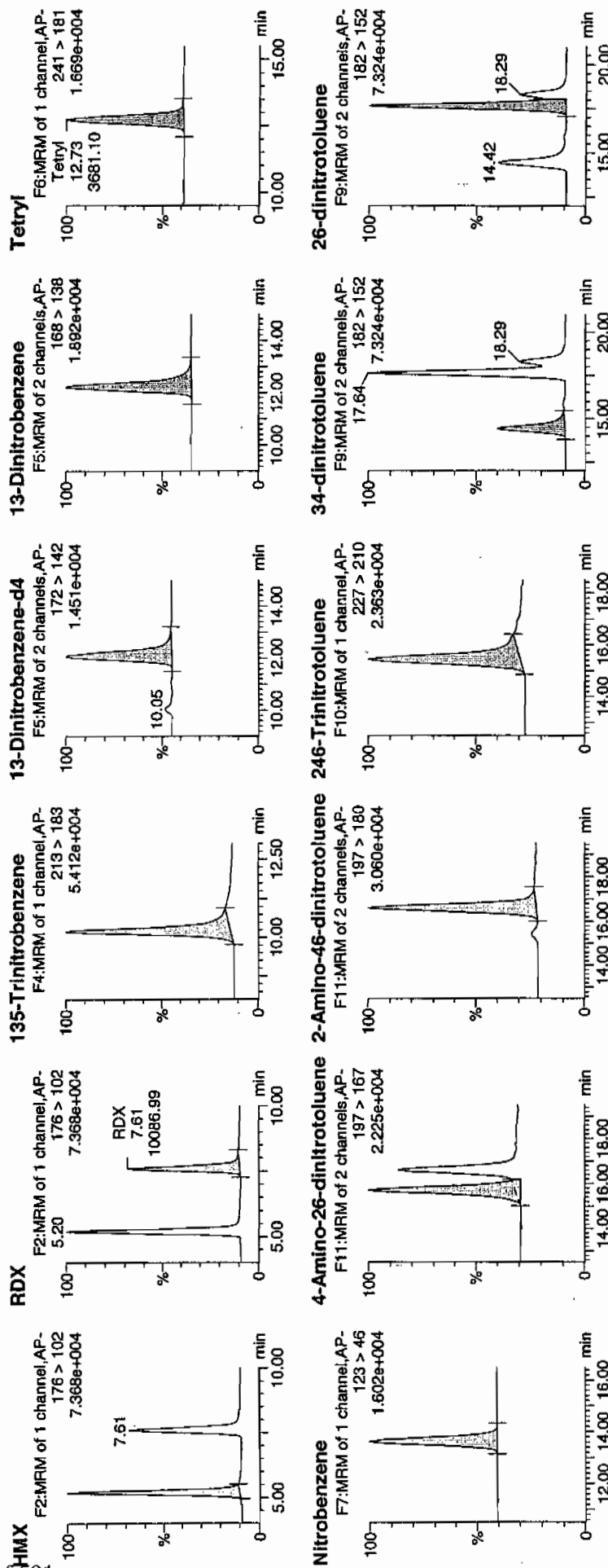
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Time: 13:34:04

ID: WXX100211-07CCV

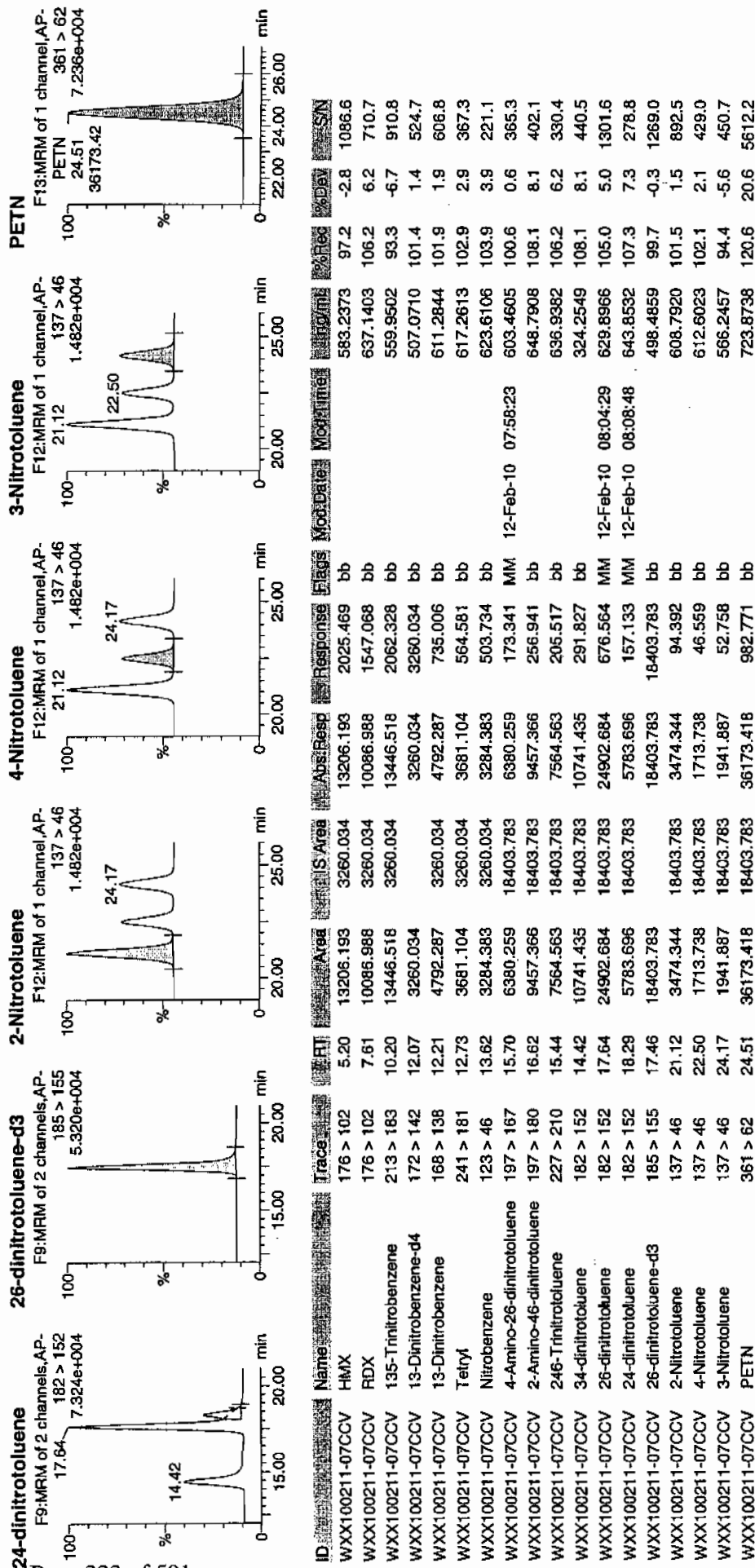
Vial: 1:1,B

11/12/10



Handwritten signature/initials.

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/11/10  
 Time of Injection: 1334  
 Standard Number: WXX100211-07CCV  
 Data File: EXP0208145a

HMX	97.2
RDX	106.2
135-TNB	93.3
13-DNB	101.9
Tetryl	102.9
Nitrobenzene	103.9
4A-26-DNT	100.6
2A-46-DNT	108.1
246-TNT	106.2
34-DNT(surr)	108.1
26-DNT	105.0
24-DNT	107.3
2-NT	101.5
4-NT	102.1
3-NT	94.4
PETN	120.6

*not  
4/2/10*

Total 1659.3

Average 103.7

*same as 1/2/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208147a

Analysis Date: 11-FEB-10 14:33

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	49.729	124	
1,3-Dinitrobenzene-d4	500	516.222	103	
2,4,6-Trinitrotoluene	40	38.92	97	
2,4-Dinitrotoluene	40	33.223	83	
2,6-Dinitrotoluene	40	40.948	102	
2,6-Dinitrotoluene-d3	500	573.135	115	
2-Amino-4,6-dinitrotoluene	40	40.905	102	
3,4-Dinitrotoluene	20	16.725	84	
4-Amino-2,6-dinitrotoluene	40	42.799	107	
HMX	40	40.54	101	
Nitrobenzene	40	39.412	99	
PETN	40	46.221	116	
RDX	40	36.181	90	
Tetryl	40	36.32	91	
m-Dinitrobenzene	40	41.498	104	
m-Nitrotoluene	40	36.824	92	
o-Nitrotoluene	40	43.119	108	
p-Nitrotoluene	40	43.135	108	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

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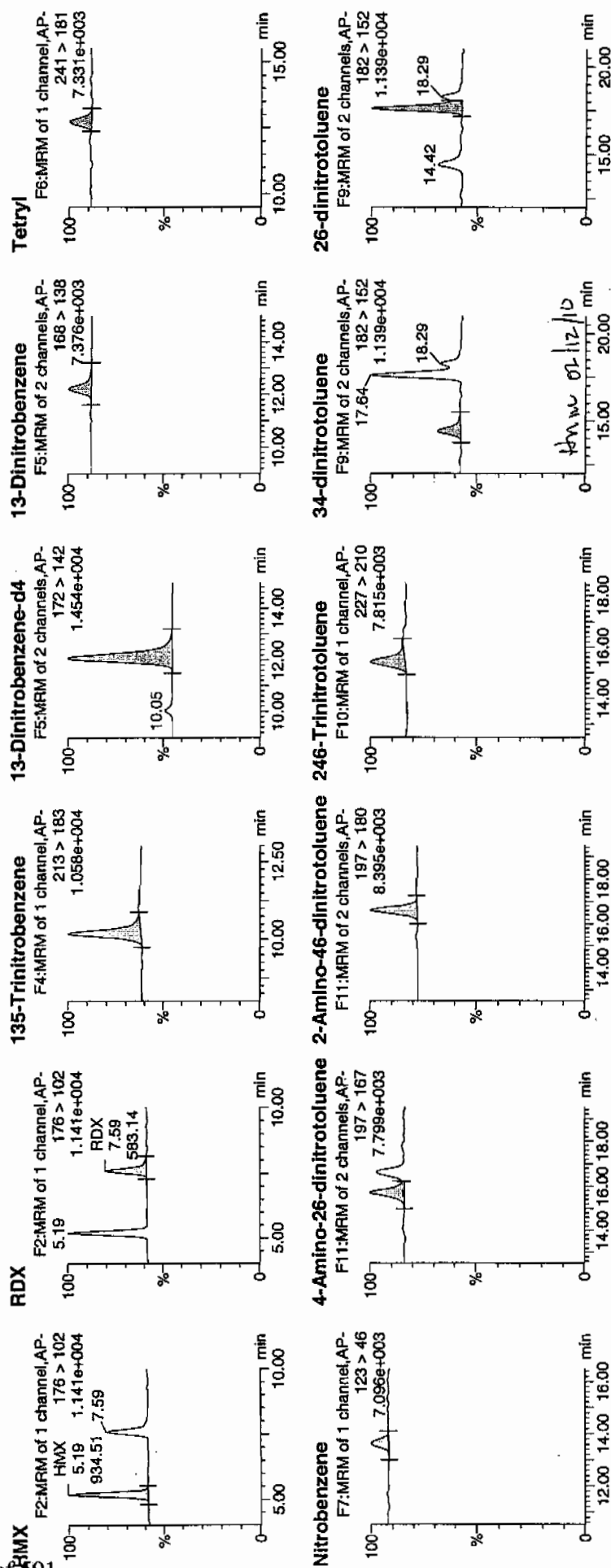
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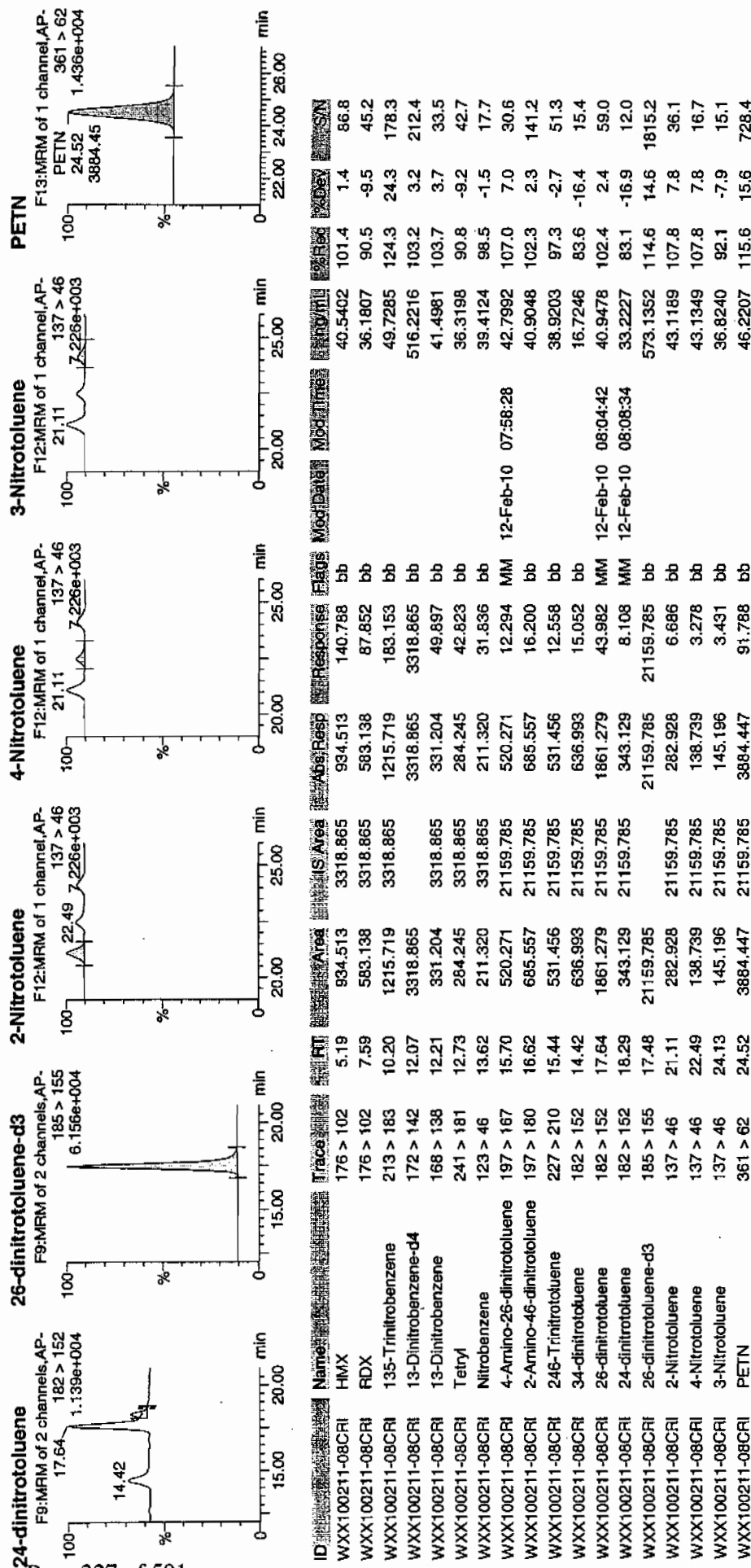
ID: WXX100211-08CRI

Vial: 1:1,C

Handwritten: 2/12/10



Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/11/10  
 Time of Injection 1433  
 Standard Number WXX100211-08CRI  
 Data File EXP0208147a

HMX	101.4
RDX	90.5
135-TNB	124.3
13-DNB	103.7
Tetryl	90.8
Nitrobenzene	98.5
4A-26-DNT	107.0
2A-46-DNT	102.3
246-TNT	97.3
34-DNT(surr)	83.6
26-DNT	102.4
24-DNT	83.1
2-NT	107.8
4-NT	107.8
3-NT	92.1
PETN	115.6

*not  
2/11/10*

Total 1608.2

Average 100.5

*Home on 12/10*

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208155a

Analysis Date: 11-FEB-10 18:29

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Tetryl	600	659.589	110	
m-Dinitrobenzene	600	643.098	107	
m-Nitrotoluene	600	479.616	80	*
o-Nitrotoluene	600	649.003	108	
p-Nitrotoluene	600	642.036	107	
1,3,5-Trinitrobenzene	600	584.955	97	
1,3-Dinitrobenzene-d4	500	537.834	108	
2,4,6-Trinitrotoluene	600	672.091	112	
2,4-Dinitrotoluene	600	651.546	109	
2,6-Dinitrotoluene	600	630.785	105	
2,6-Dinitrotoluene-d3	500	539.361	108	
2-Amino-4,6-dinitrotoluene	600	714.872	119	
3,4-Dinitrotoluene	300	341.269	114	
4-Amino-2,6-dinitrotoluene	600	641.093	107	
HMX	600	758.397	126	*
Nitrobenzene	600	633.981	106	
PETN	600	627.004	105	
RDX	600	775.743	129	*

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

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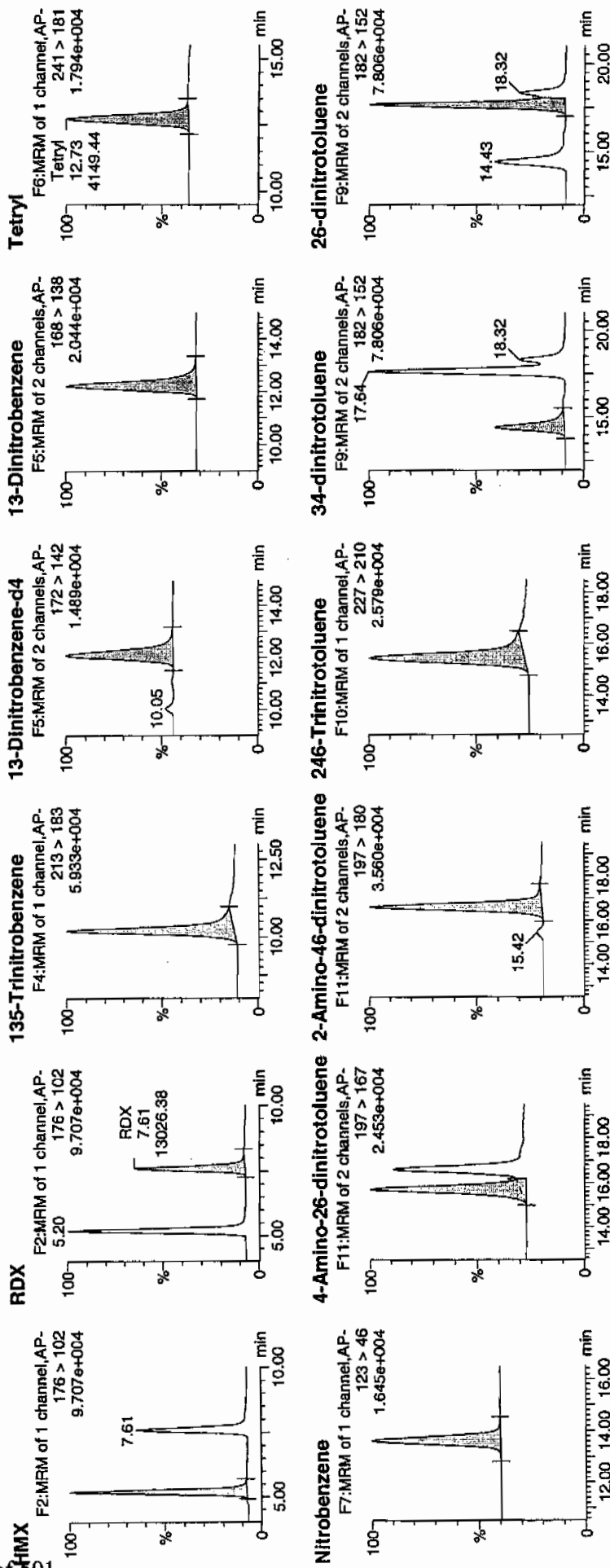
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Time: 18:29:30

ID: WXX100211-07CCV

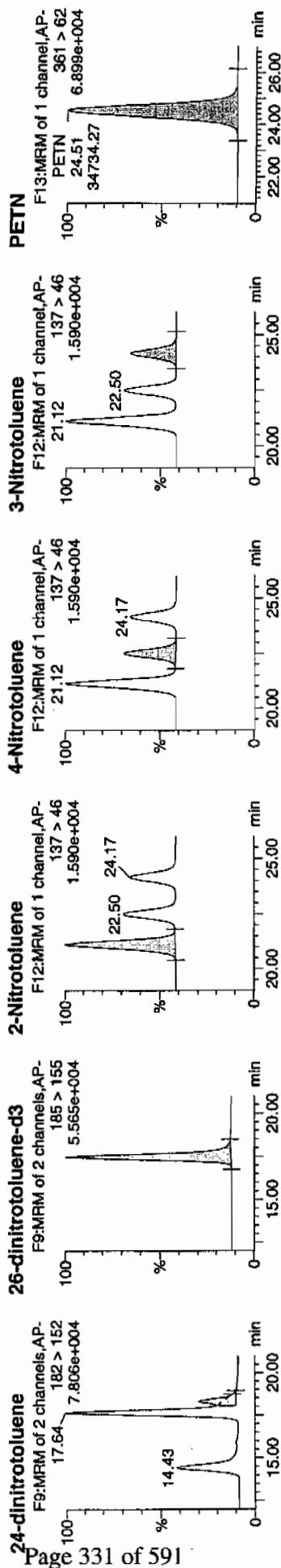
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1/12/10



1/12/10

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



ID	Name	Trace	RT	Area	S:Area	Abs:Resp	Response	Flags	Mod:Date	Mod:Time	mg/ml	%Rec	%Dev	ISN
WXX100211-07CCV	HMX	176 > 102	5.20	18214.146	3457.815	18214.146	2633.765	db			758.3974	126.4	26.4	912.7
WXX100211-07CCV	RDX	176 > 102	7.61	13026.384	3457.815	13026.384	1863.615	bb			775.7429	129.3	29.3	565.6
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.20	14899.180	3457.815	14899.180	2154.421	bb			584.9548	97.5	-2.5	1756.5
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	3457.815		3457.815	3457.815	bb			537.8342	107.6	7.6	307.1
WXX100211-07CCV	13-Dinitrobenzene	166 > 138	12.21	5347.566	3457.815	5347.566	773.258	bb			643.0978	107.2	7.2	382.2
WXX100211-07CCV	Tetryl	241 > 181	12.73	4149.437	3457.815	4149.437	600.009	bb			659.5891	109.9	9.9	617.4
WXX100211-07CCV	Nitrobenzene	123 > 46	13.63	3541.570	3457.815	3541.570	512.111	bb			633.9805	105.7	5.7	393.8
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.71	7333.929	19912.854	7333.929	184.151	MM	12-Feb-10	07:59:47	641.0927	106.8	6.8	220.1
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.63	11275.101	19912.854	11275.101	283.111	bb			714.8724	119.1	19.1	499.5
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.45	8636.564	19912.854	8636.564	216.859	bb			672.0909	112.0	12.0	224.4
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.43	12232.050	19912.854	12232.050	307.140	bb			341.2692	113.8	13.8	375.9
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.64	26982.646	19912.854	26982.646	677.518	MM	12-Feb-10	08:05:15	630.7848	105.1	5.1	1049.0
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.32	6332.720	19912.854	6332.720	159.011	MM	12-Feb-10	08:07:53	651.5463	108.6	8.6	232.0
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	19912.854		19912.854	19912.854	bb			539.3607	107.9	7.9	3140.5
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.12	4007.529	19912.854	4007.529	100.627	bb			649.0025	108.2	8.2	957.4
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.50	1943.352	19912.854	1943.352	48.796	bb			642.0358	107.0	7.0	444.9
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.17	1779.667	19912.854	1779.667	44.686	bb			479.6156	79.9	-20.1	392.5
WXX100211-07CCV	PETN	361 > 62	24.51	34734.266	19912.854	34734.266	872.157	bb			627.0040	104.5	4.5	10028.7

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/11/10  
 Time of Injection: 1829  
 Standard Number: WXX100211-07CCV  
 Data File: EXP0208155a

HMX	126.4
RDX	129.3
135-TNB	97.5
13-DNB	107.2
Tetryl	109.9
Nitrobenzene	105.7
4A-26-DNT	106.8
2A-46-DNT	119.1
246-TNT	112.0
34-DNT(surr)	113.8
26-DNT	105.1
24-DNT	108.6
2-NT	108.2
4-NT	107.0
3-NT	79.9
PETN	104.5

*mtf  
2/11/10*

Total 1741.0

Average 108.8

*from 02/12/10*

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208157a

Analysis Date: 11-FEB-10 19:28

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	40	40.427	101	
3,4-Dinitrotoluene	20	22.689	113	
4-Amino-2,6-dinitrotoluene	40	32.487	81	
HMX	40	40.09	100	
Nitrobenzene	40	44.282	111	
PETN	40	48.308	121	
RDX	40	38.585	96	
Tetryl	40	36.534	91	
m-Dinitrobenzene	40	35.416	89	
m-Nitrotoluene	40	47.307	118	
o-Nitrotoluene	40	45.523	114	
p-Nitrotoluene	40	40.92	102	
1,3,5-Trinitrobenzene	40	47.938	120	
1,3-Dinitrobenzene-d4	500	474.289	95	
2,4,6-Trinitrotoluene	40	45.464	114	
2,4-Dinitrotoluene	40	32.491	81	
2,6-Dinitrotoluene	40	37.857	95	
2,6-Dinitrotoluene-d3	500	465.184	93	

Recovery Limits:

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

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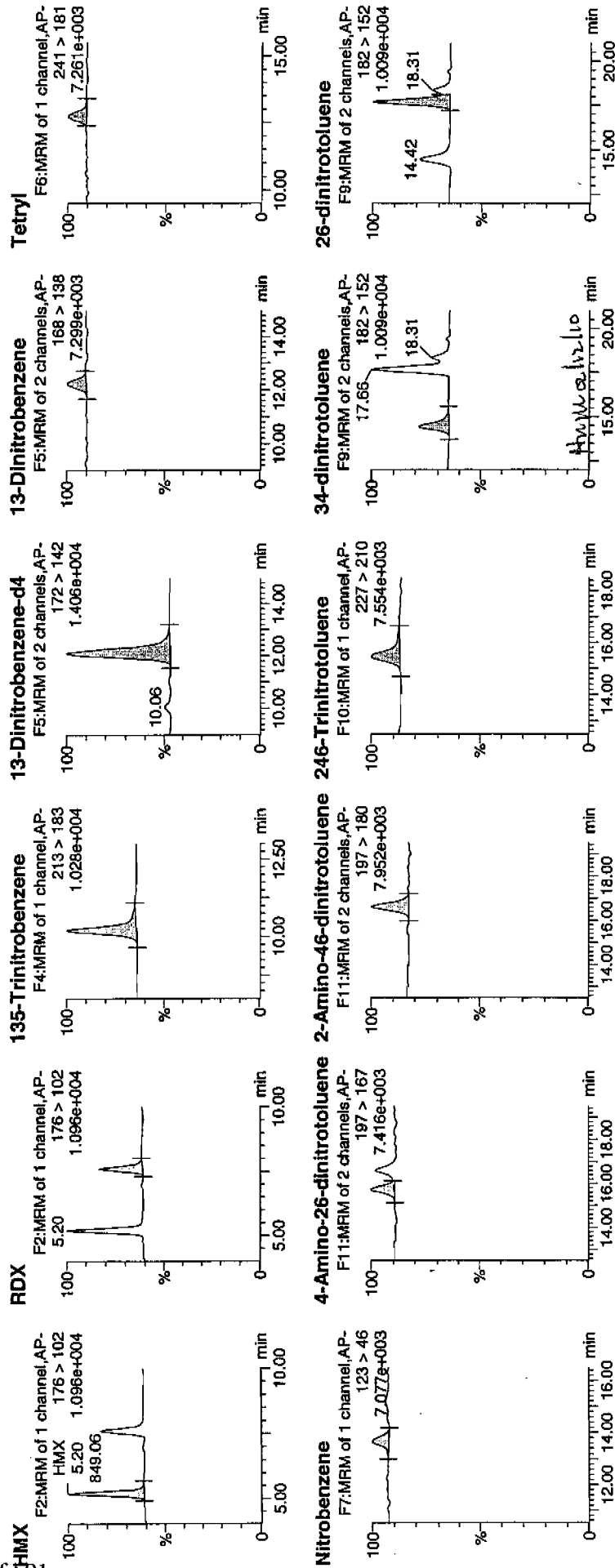
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Time: 19:28:28

ID: WXX100211-08CRI

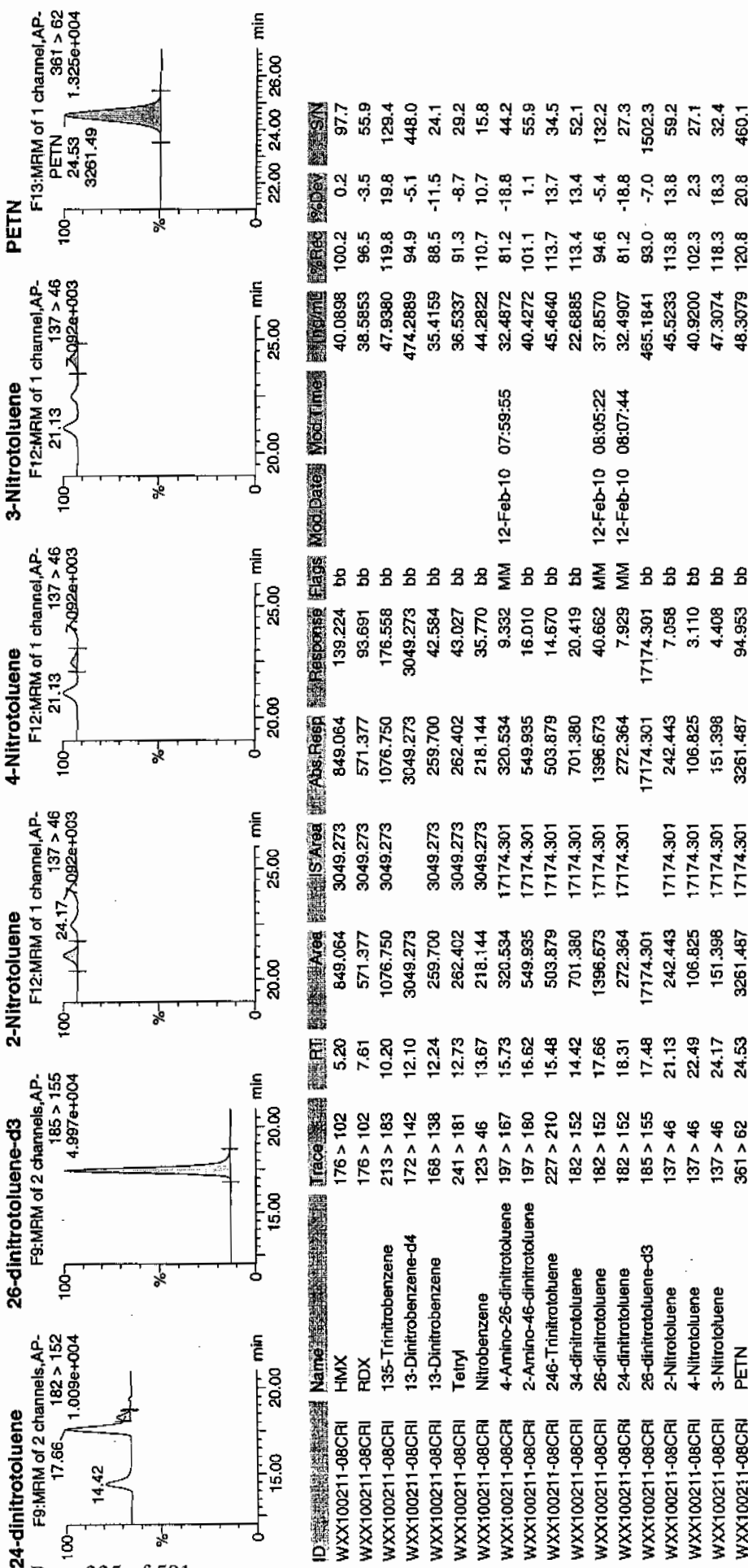
Vial: 1:1,C

2/10/10



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

Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/11/10  
 Time of Injection 1928  
 Standard Number WXX100211-08CRI  
 Data File EXP0208157a

HMX	100.2
RDX	96.5
135-TNB	119.8
13-DNB	88.5
Tetryl	91.3
Nitrobenzene	110.7
4A-26-DNT	81.2
2A-46-DNT	101.1
246-TNT	113.7
34-DNT(surr)	113.4
26-DNT	94.6
24-DNT	81.2
2-NT	113.8
4-NT	102.3
3-NT	118.3
PETN	120.8

*uaf  
2/2/10*

Total 1647.4

Average 103.0

*Approved 02/12/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCY

GEL Data File EXP0208168a

Analysis Date: 12-FEB-10 00:52

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	649.814	108	
1,3-Dinitrobenzene-d4	500	363.136	73	*
2,4,6-Trinitrotoluene	600	704.394	117	
2,4-Dinitrotoluene	600	605.971	101	
2,6-Dinitrotoluene	600	613.961	102	
2,6-Dinitrotoluene-d3	500	365.062	73	*
2-Amino-4,6-dinitrotoluene	600	635.413	106	
3,4-Dinitrotoluene	300	319.507	107	
4-Amino-2,6-dinitrotoluene	600	605.937	101	
HMX	600	616.353	103	
Nitrobenzene	600	690.95	115	
PETN	600	937.241	156	*
RDX	600	667.229	111	
Tetryl	600	719.32	120	
m-Dinitrobenzene	600	637.964	106	
m-Nitrotoluene	600	612.02	102	
o-Nitrotoluene	600	573.693	96	
p-Nitrotoluene	600	575.749	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

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

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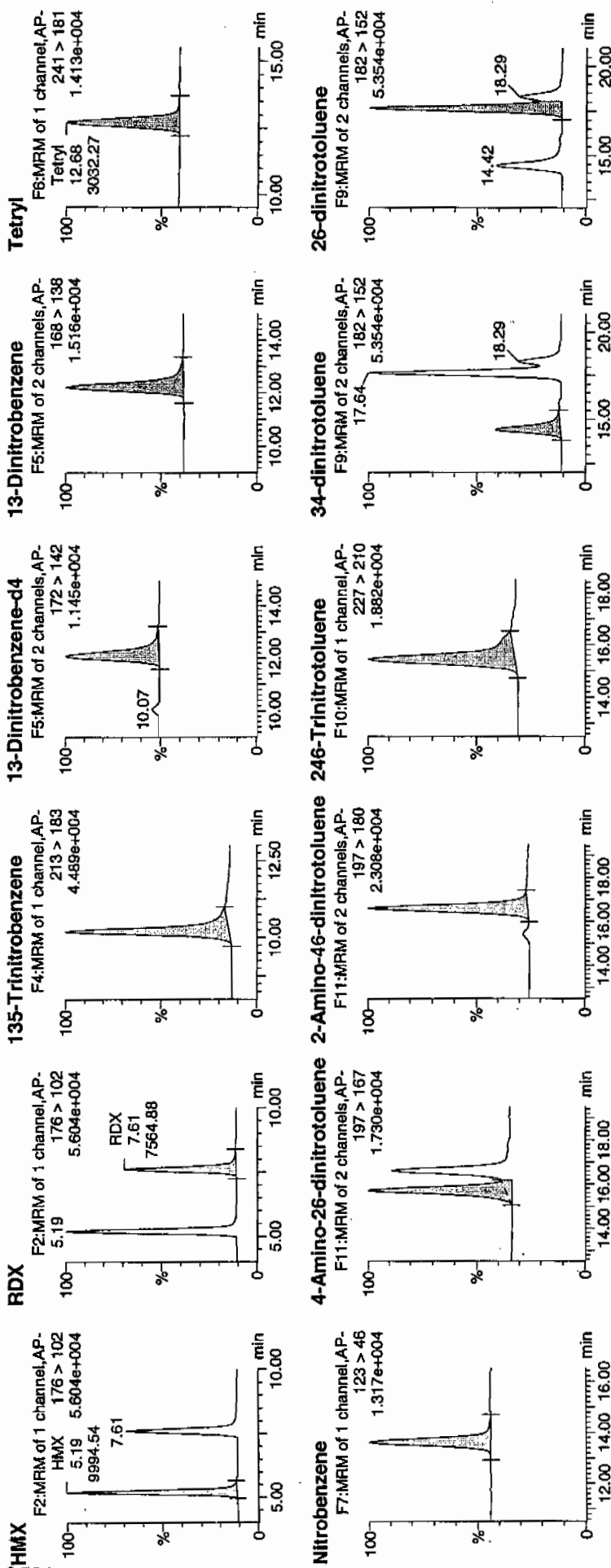
Date: 12-Feb-2010

Time: 00:52:53

ID: WXX100211-07CCV

Vial: 1:1, B

11/2/10

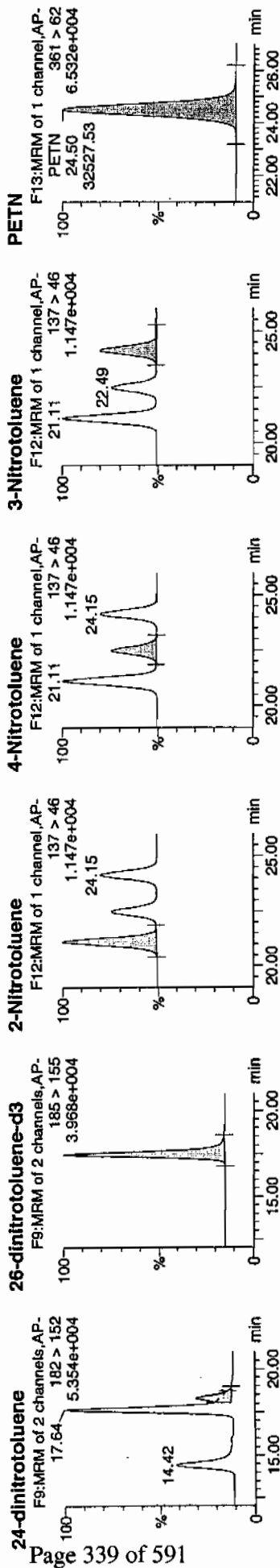


11/2/10

Printed: Fri Feb 12 08:13:51 2010, Page 66 of 93

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

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qtd, Time: Fri Feb 12 08:08:48 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Dev	SN
WXX100211-07CCV	HMX	176 > 102	5.19	9994.540	2334.658	9994.540	2140.472	bb		616.3527	102.7	2.7	1103.1
WXX100211-07CCV	RDX	176 > 102	7.61	7564.883	2334.658	7564.883	1620.127	bb		667.2286	111.2	11.2	720.2
WXX100211-07CCV	135-Trinitrobenzene	213 > 183	10.20	11175.075	2334.658	11175.075	2393.300	bb		649.8137	108.3	8.3	1242.6
WXX100211-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	2334.658		2334.658	2334.658	bb		363.1365	72.6	-27.4	326.8
WXX100211-07CCV	13-Dinitrobenzene	168 > 138	12.21	3581.761	2334.658	3581.761	767.085	bb		637.9637	106.3	6.3	394.6
WXX100211-07CCV	Tetryl	241 > 181	12.68	3032.274	2334.658	3032.274	649.404	bb		719.3195	119.9	19.9	305.9
WXX100211-07CCV	Nitrobenzene	123 > 46	13.62	2606.083	2334.658	2606.083	558.129	bb		690.9503	115.2	15.2	209.6
WXX100211-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.70	4691.699	13477.839	4691.699	174.052	MM	12-Feb-10	08:00:48	101.0	1.0	235.4
WXX100211-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.60	6783.207	13477.839	6783.207	251.643	bb		635.4134	105.9	5.9	358.1
WXX100211-07CCV	246-Trinitrotoluene	227 > 210	15.45	6126.539	13477.839	6126.539	227.282	bb		704.3937	117.4	17.4	372.1
WXX100211-07CCV	34-dinitrotoluene	182 > 152	14.42	7751.206	13477.839	7751.206	287.554	bb		319.5070	106.5	6.5	336.0
WXX100211-07CCV	26-dinitrotoluene	182 > 152	17.64	17775.865	13477.839	17775.865	659.448	MM	12-Feb-10	08:05:48	102.3	2.3	993.9
WXX100211-07CCV	24-dinitrotoluene	182 > 152	18.29	3986.427	13477.839	3986.427	147.888	MM	12-Feb-10	08:07:01	101.0	1.0	208.0
WXX100211-07CCV	26-dinitrotoluene-d3	185 > 155	17.46	13477.839		13477.839	13477.839	bb		365.0615	73.0	-27.0	812.6
WXX100211-07CCV	2-Nitrotoluene	137 > 46	21.11	2397.708	13477.839	2397.708	88.950	bb		573.6926	95.6	-4.4	416.7
WXX100211-07CCV	4-Nitrotoluene	137 > 46	22.49	1179.539	13477.839	1179.539	43.758	bb		575.7492	96.0	-4.0	198.1
WXX100211-07CCV	3-Nitrotoluene	137 > 46	24.15	1537.085	13477.839	1537.085	57.023	bb		612.0200	102.0	2.0	247.7
WXX100211-07CCV	PETN	361 > 62	24.50	32527.529	13477.839	32527.529	1206.704	bb		937.2408	156.2	56.2	4271.7

✓

GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/12/10  
 Time of Injection: 0052  
 Standard Number: WXX100211-07CCV  
 Data File: EXP0208168a

HMX	102.7
RDX	111.2
135-TNB	108.3
13-DNB	106.3
Tetryl	119.9
Nitrobenzene	115.2
4A-26-DNT	101.0
2A-46-DNT	105.9
246-TNT	117.4
34-DNT(surr)	106.5
26-DNT	102.3
24-DNT	101.0
2-NT	95.6
4-NT	96.0
3-NT	102.0
PETN	156.2

Total 1747.5

Average 109.2

*WAT  
2/24/10*

*WAT 02/12/10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

**7B**  
**Explosives CRI Standard**

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208170a

Analysis Date: 12-FEB-10 01:51

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	40	43.248	108	
1,3,5-Trinitrobenzene	40	54.58	136	*
1,3-Dinitrobenzene-d4	500	414.79	83	
2,4,6-Trinitrotoluene	40	31.941	80	
2,4-Dinitrotoluene	40	36.526	91	
2,6-Dinitrotoluene	40	39.901	100	
2,6-Dinitrotoluene-d3	500	419.808	84	
2-Amino-4,6-dinitrotoluene	40	41.208	103	
3,4-Dinitrotoluene	20	18.972	95	
4-Amino-2,6-dinitrotoluene	40	36.002	90	
HMX	40	41.297	103	
Nitrobenzene	40	42.737	107	
PETN	40	58.979	147	*
RDX	40	33.84	85	
Tetryl	40	41.479	104	
m-Dinitrobenzene	40	37.812	95	
m-Nitrotoluene	40	36.746	92	
o-Nitrotoluene	40	42.552	106	

**Recovery Limits:**

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

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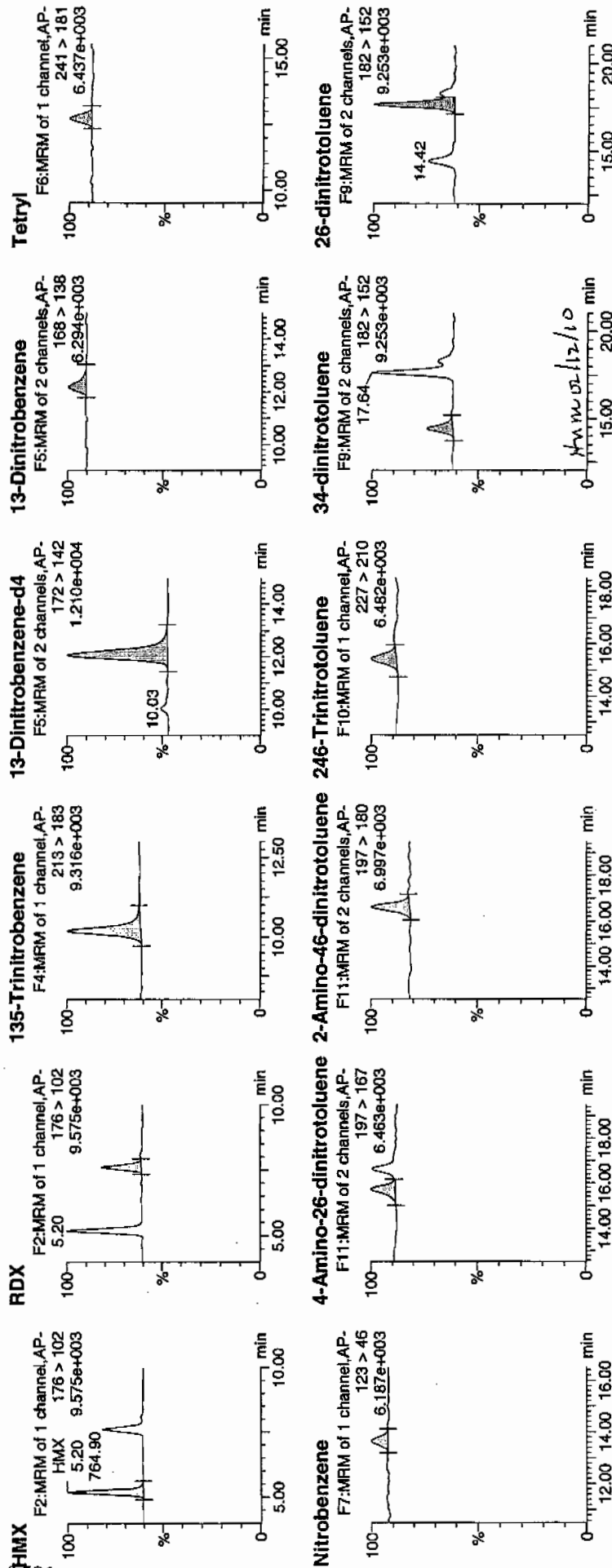
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Time: 01:51:53

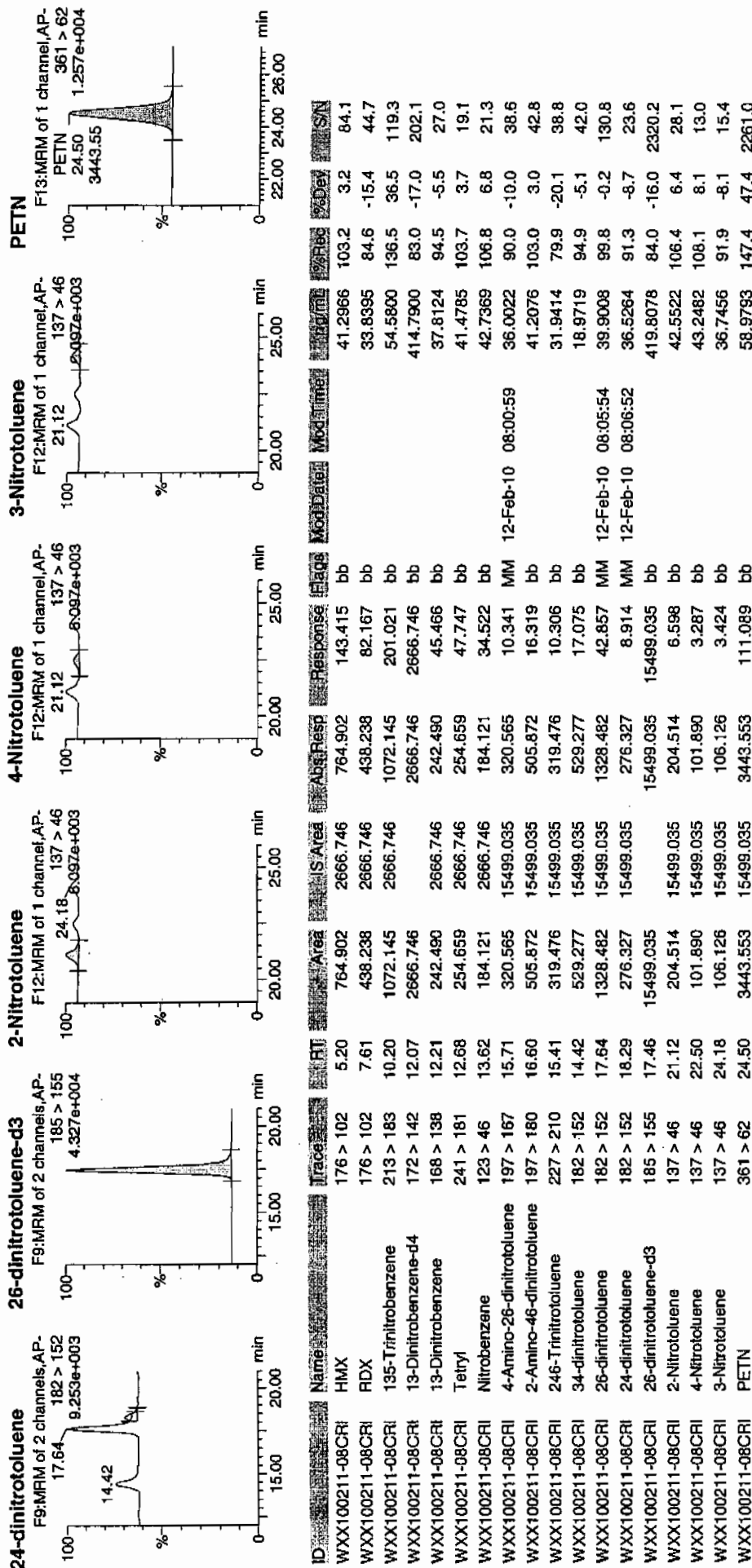
ID: WXX100211-08CRI

Vial: 1:1,C

2/12/10



Dataset: C:\MASSLYNX\New\_Exp\PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/12/10  
 Time of Injection 0151  
 Standard Number WXX100211-08CRI  
 Data File EXP0208170a

HMX	103.2
RDX	84.6
135-TNB	136.5
13-DNB	94.5
Tetryl	103.7
Nitrobenzene	106.8
4A-26-DNT	90.0
2A-46-DNT	103.0
246-TNT	79.9
34-DNT(surr)	94.9
26-DNT	99.8
24-DNT	91.3
2-NT	106.4
4-NT	108.1
3-NT	91.9
PETN	147.4

Total 1642.0

Average 102.6

*Handwritten: 102.6 or 102.10*

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0208179a

Analysis Date: 12-FEB-10 06:17

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	413.212	83	
2-Amino-4,6-dinitrotoluene	600	595.295	99	
3,4-Dinitrotoluene	300	330.75	110	
4-Amino-2,6-dinitrotoluene	600	578.418	96	
HMX	600	534.328	89	
Nitrobenzene	600	626.915	104	
PETN	600	774.197	129	*
RDX	600	606.847	101	
Tetryl	600	700.204	117	
m-Dinitrobenzene	600	629.509	105	
m-Nitrotoluene	600	504.3	84	
o-Nitrotoluene	600	541.966	90	
p-Nitrotoluene	600	543.447	91	
1,3,5-Trinitrobenzene	600	587.089	98	
1,3-Dinitrobenzene-d4	500	399.529	80	*
2,4,6-Trinitrotoluene	600	750.342	125	*
2,4-Dinitrotoluene	600	599.438	100	
2,6-Dinitrotoluene	600	606.259	101	

Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

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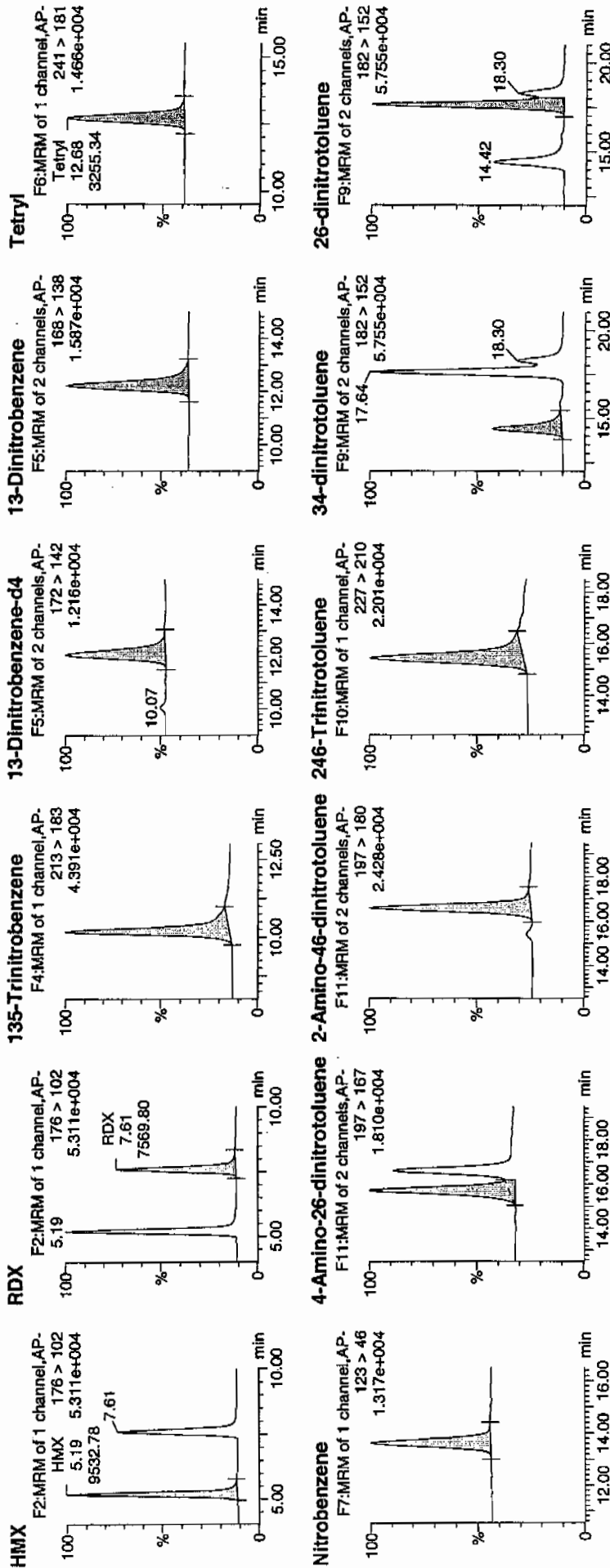
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Time: 06:17:31

ID: WXX100211-07CCV

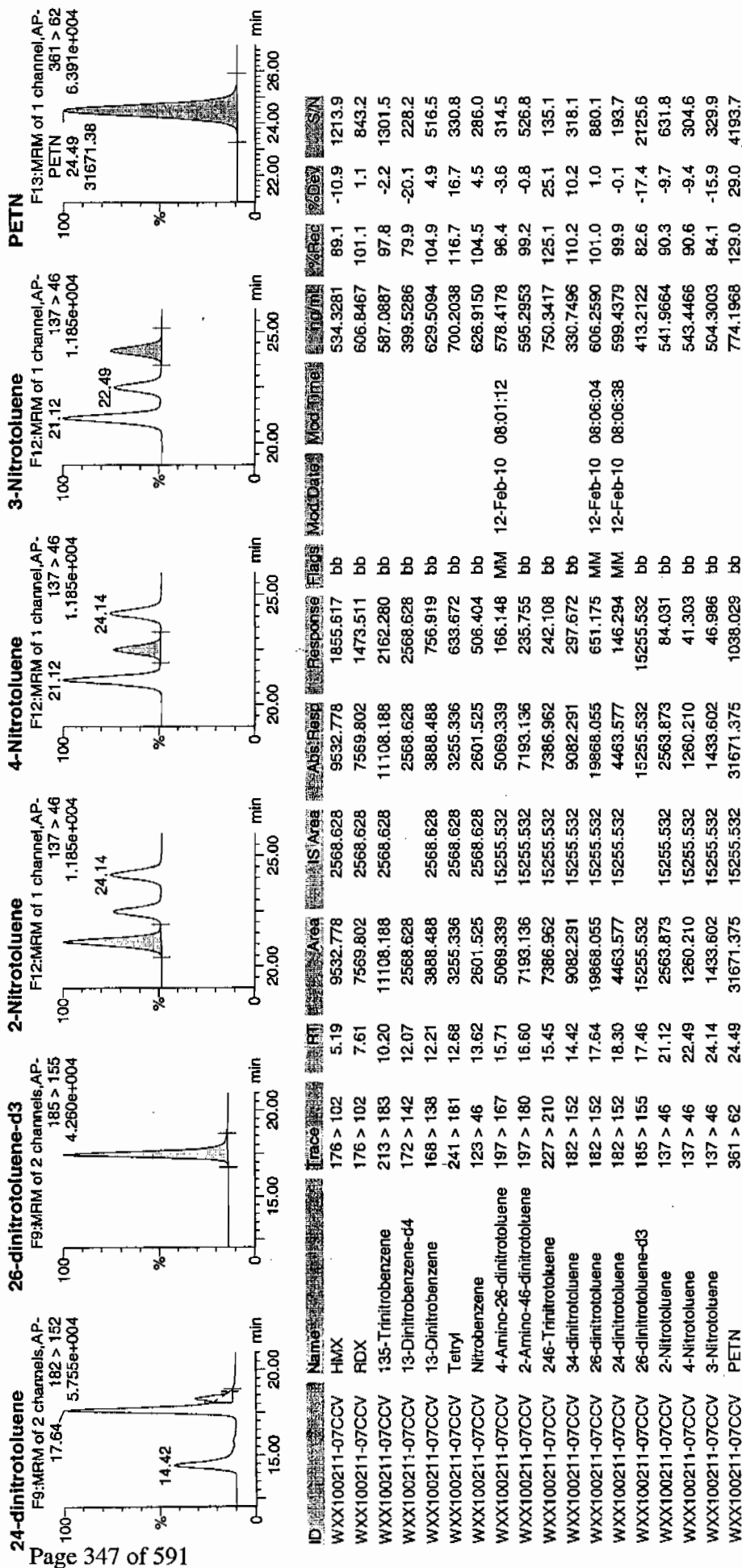
Vial: 1:1,B

1/17  
2/12/10



Handwritten note: 1/17

Dataset: C:\MASSLYNX\New\_Exp\_PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 02/12/10  
 Time of Injection: 0617  
 Standard Number: WXX100211-07CCV  
 Data File: EXP0208179a

HMX	89.1
RDX	101.1
135-TNB	97.8
13-DNB	104.9
Tetryl	116.7
Nitrobenzene	104.5
4A-26-DNT	96.4
2A-46-DNT	99.2
246-TNT	125.1
34-DNT(surr)	110.2
26-DNT	101.0
24-DNT	99.9
2-NT	90.3
4-NT	90.6
3-NT	84.1
PETN	129.0

*mtt  
2/12/10*

Total 1639.9

Average 102.5

*Amme on 1/12/10*

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0208181a

Analysis Date: 12-FEB-10 07:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	44.012	110	
1,3-Dinitrobenzene-d4	500	438.92	88	
2,4,6-Trinitrotoluene	40	42.728	107	
2,4-Dinitrotoluene	40	42.259	106	
2,6-Dinitrotoluene	40	37.113	93	
2,6-Dinitrotoluene-d3	500	442.662	89	
2-Amino-4,6-dinitrotoluene	40	36.972	92	
3,4-Dinitrotoluene	20	20.284	101	
4-Amino-2,6-dinitrotoluene	40	36.006	90	
HMX	40	39.857	100	
Nitrobenzene	40	38.793	97	
PETN	40	48.869	122	
RDX	40	40.155	100	
Tetryl	40	38.51	96	
m-Dinitrobenzene	40	38.974	97	
m-Nitrotoluene	40	31.524	79	
o-Nitrotoluene	40	36.982	92	
p-Nitrotoluene	40	35.364	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



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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

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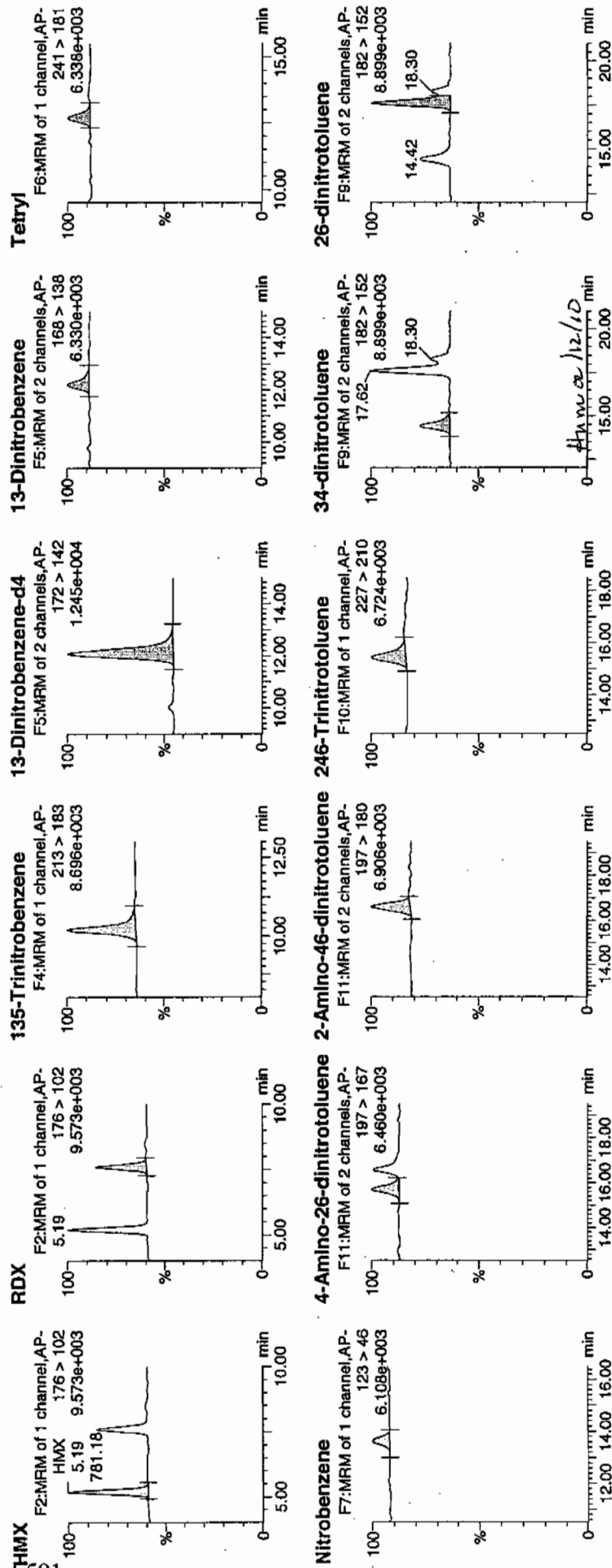
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Time: 07:16:32

ID: WXX100211-08CRI

Vial: 1:1,C

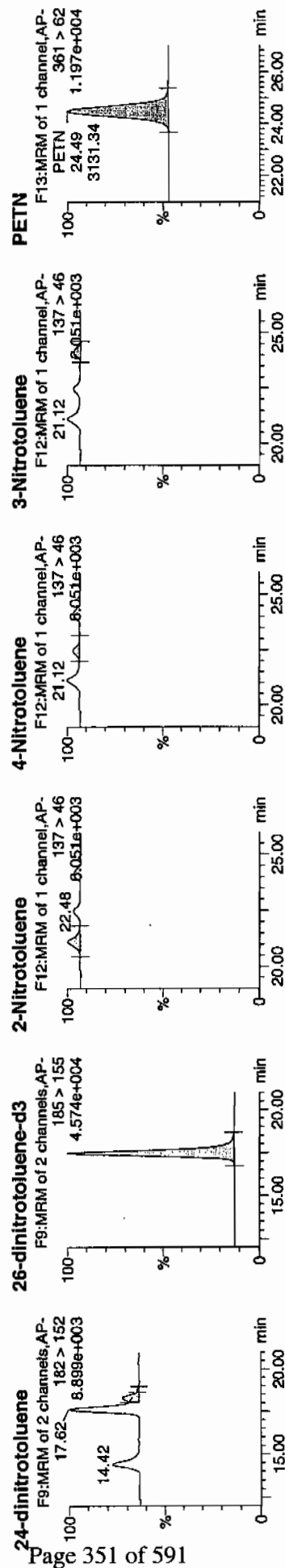
2/12/10



Printed: Fri Feb 12 08:13:51 2010, Page 92 of 93

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



ID	Name	Trace	HTI	Area	US Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	%Area	%Dev	SN
WXX100211-08CRI	HMX	176 > 102	5.19	781.177	2821.884	781.177	138.414	bb			39.8566	99.6	-0.4	330.6
WXX100211-08CRI	RDX	176 > 102	7.61	550.278	2821.884	550.278	97.502	bb			40.1549	100.4	0.4	210.1
WXX100211-08CRI	135-Trinitrobenzene	213 > 183	10.20	914.840	2821.884	914.840	162.097	bb			44.0117	110.0	10.0	114.8
WXX100211-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	2821.884	2821.884	2821.884	2821.884	bb			438.9204	87.8	-12.2	126.3
WXX100211-08CRI	13-Dinitrobenzene	168 > 138	12.21	264.481	2821.884	264.481	46.862	bb			38.9743	97.4	-2.6	18.2
WXX100211-08CRI	Tetryl	241 > 181	12.68	253.485	2821.884	253.485	44.914	bb			38.5101	96.3	-3.7	23.7
WXX100211-08CRI	Nitrobenzene	123 > 46	13.62	176.851	2821.884	176.851	31.336	bb			38.7927	97.0	-3.0	19.1
WXX100211-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	338.056	16342.797	338.056	10.343	MM	12-Feb-10	08:01:18	36.0064	90.0	-10.0	17.2
WXX100211-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.60	478.583	16342.797	478.583	14.642	bb			36.9720	92.4	-7.6	39.1
WXX100211-08CRI	246-Trinitrotoluene	227 > 210	15.45	450.624	16342.797	450.624	13.787	bb			42.7276	106.8	6.8	19.3
WXX100211-08CRI	34-dinitrotoluene	182 > 152	14.42	596.692	16342.797	596.692	18.256	bb			20.2841	101.4	1.4	43.6
WXX100211-08CRI	26-dinitrotoluene	182 > 152	17.62	1302.923	16342.797	1302.923	39.862	MM	12-Feb-10	08:06:11	37.1127	92.8	-7.2	114.1
WXX100211-08CRI	24-dinitrotoluene	182 > 152	18.30	337.100	16342.797	337.100	10.313	MM	12-Feb-10	08:06:28	42.2592	105.6	5.6	28.0
WXX100211-08CRI	26-dinitrotoluene-d3	185 > 155	17.47	16342.797	16342.797	16342.797	16342.797	bb			442.6619	88.5	-11.5	1289.8
WXX100211-08CRI	2-Nitrotoluene	137 > 46	21.12	187.421	16342.797	187.421	5.734	bb			36.9824	92.5	-7.5	44.6
WXX100211-08CRI	4-Nitrotoluene	137 > 46	22.48	87.852	16342.797	87.852	2.688	bb			35.3644	88.4	-11.6	23.0
WXX100211-08CRI	3-Nitrotoluene	137 > 46	24.12	96.001	16342.797	96.001	2.937	bb			31.5237	78.8	-21.2	24.1
WXX100211-08CRI	PETN	361 > 62	24.49	3131.342	16342.797	3131.342	95.802	bb			48.8685	122.2	22.2	1383.8

GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 02/12/10  
 Time of Injection 0716  
 Standard Number WXX100211-08CRI  
 Data File EXP0208181a

HMX	99.6
RDX	100.4
135-TNB	110.0
13-DNB	97.4
Tetryl	96.3
Nitrobenzene	97.0
4A-26-DNT	90.0
2A-46-DNT	92.4
246-TNT	106.8
34-DNT(surr)	101.4
26-DNT	92.8
24-DNT	105.6
2-NT	92.5
4-NT	88.4
3-NT	78.8
PETN	122.2

*not  
2/12/10*

Total 1571.6

*from 02/12/10*

Average 98.2

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02120013.wiff

Analysis Date: 12-FEB-10 14:34

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	74	74	
2,6-Diamino-4-nitrotoluene	100	76.3	76	
3,4-Dinitrotoluene	50	47.8	96	
3,5-Dinitroaniline	100	96.7	97	
TATB	100	86.8	87	
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 ,

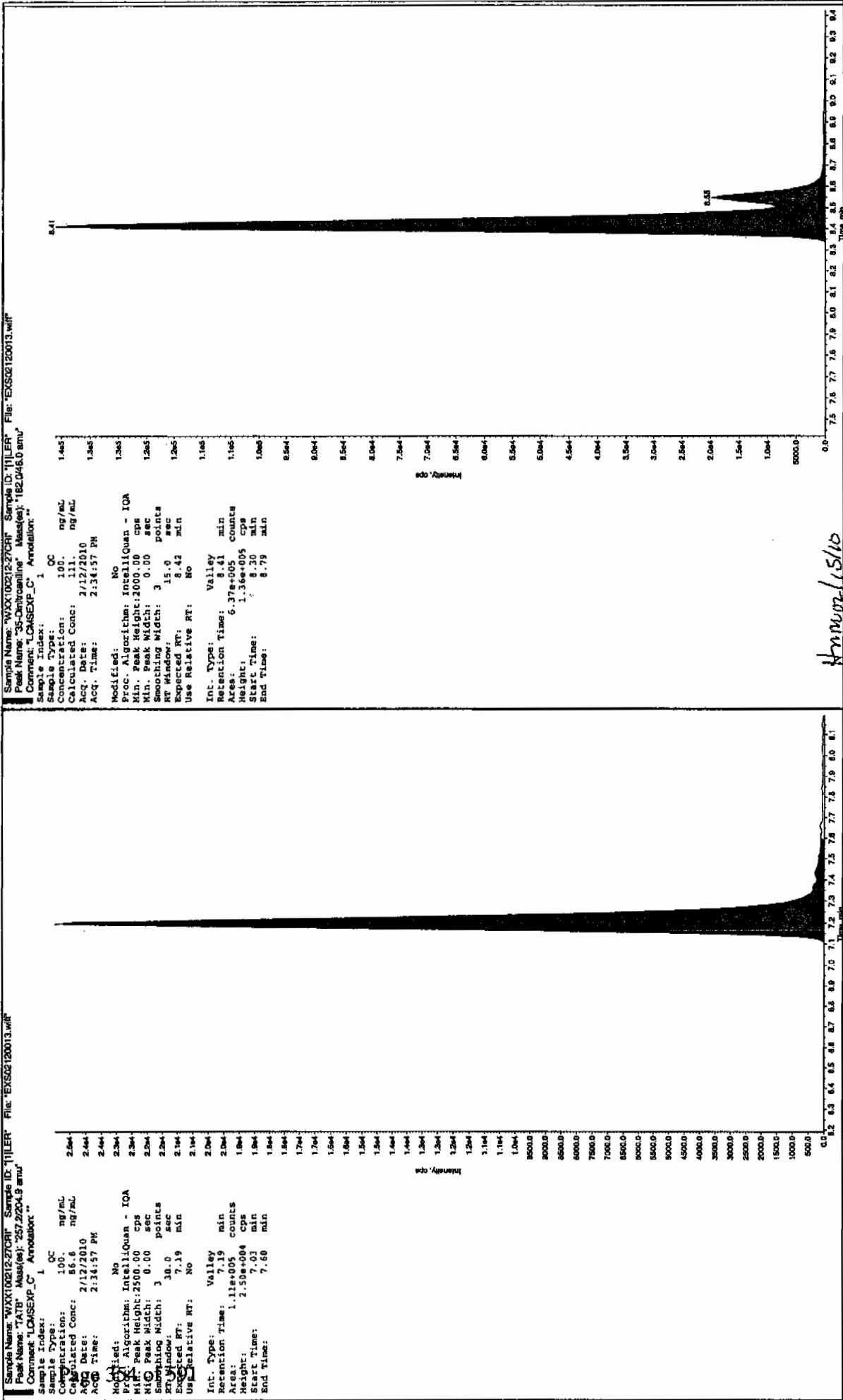
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

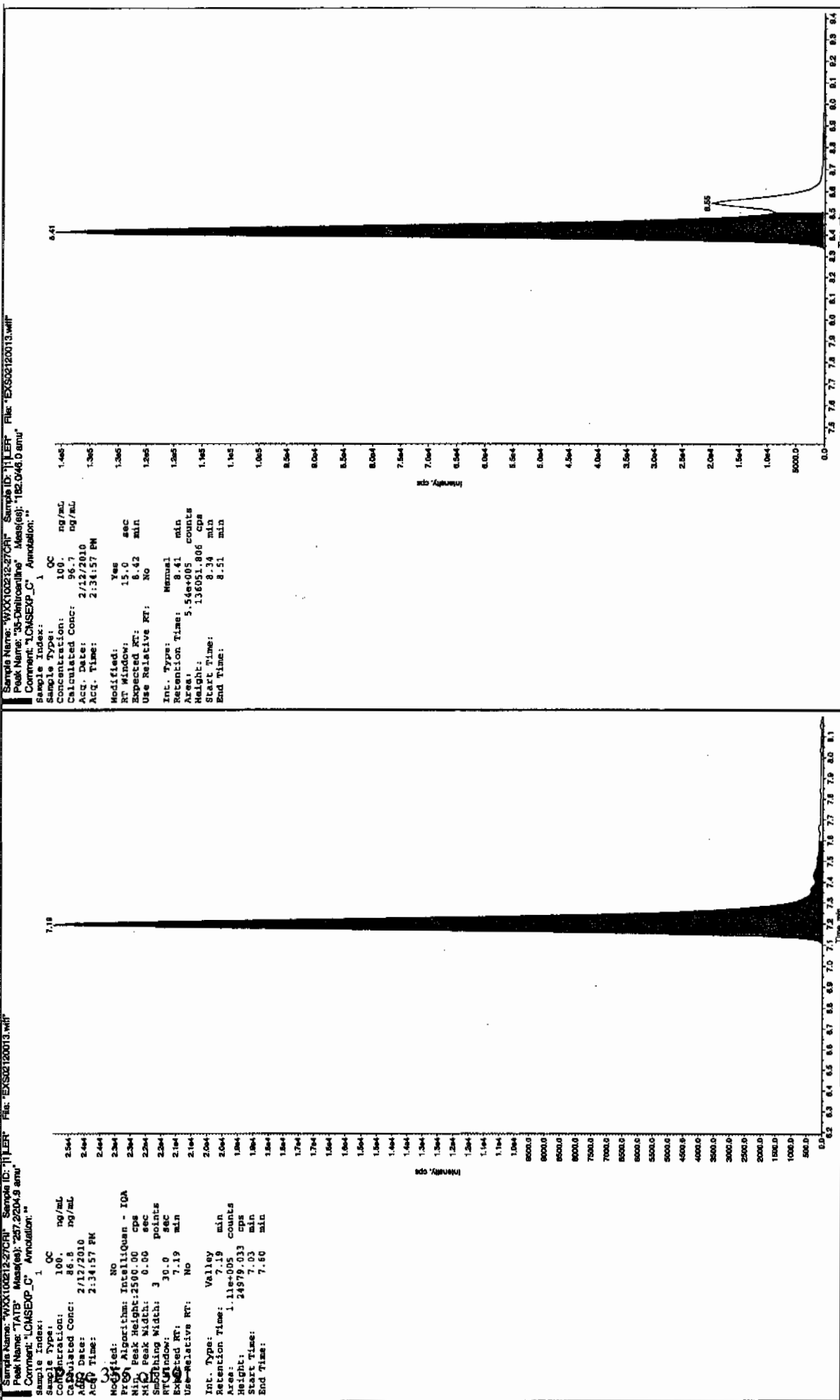
\* Value outside of Recovery Limits

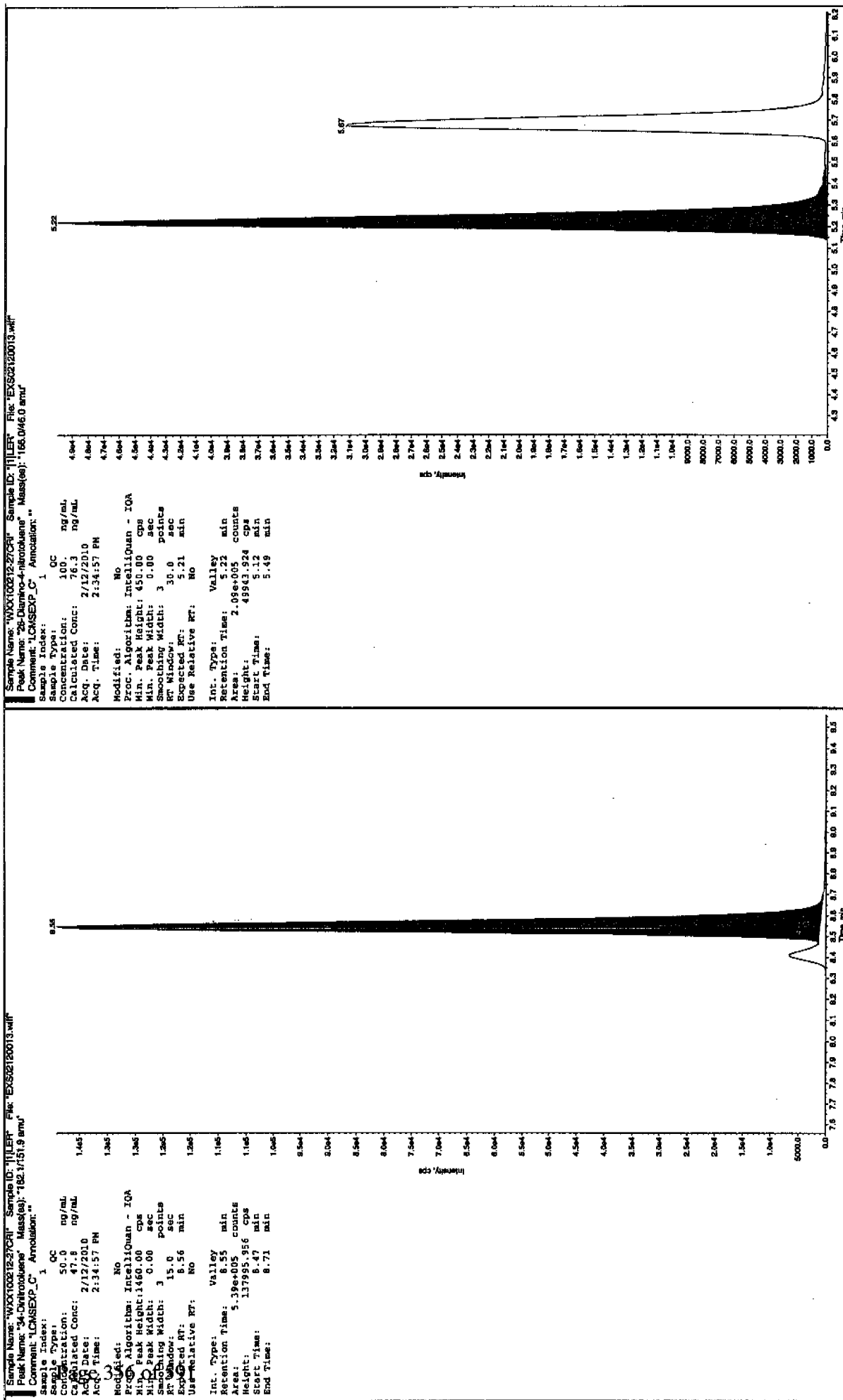
Before Scan 21510

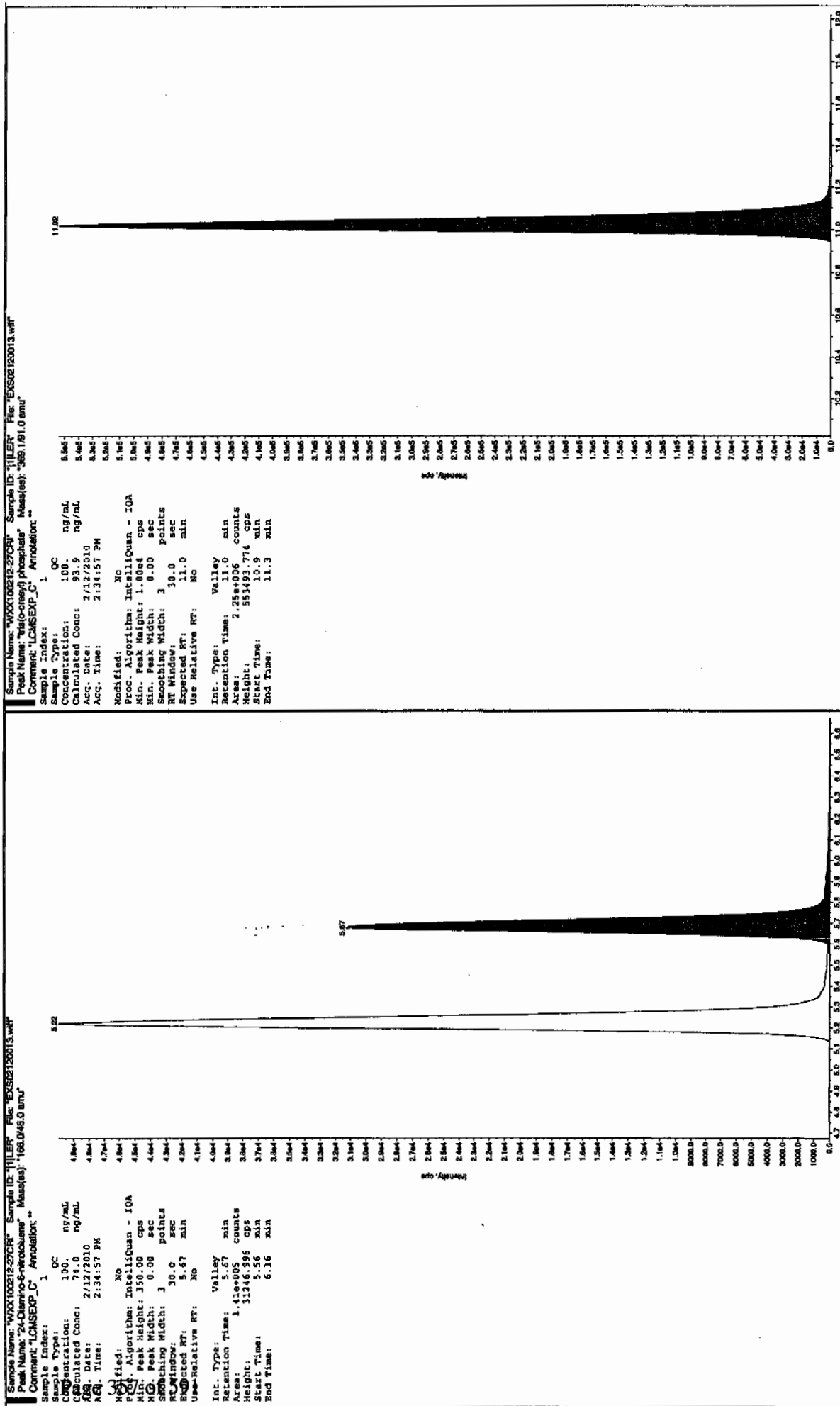


After Scan 21510

after Jan 2/15/10









7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02120024.wiff

Analysis Date: 12-FEB-10 17:27

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	496	99	
2,6-Diamino-4-nitrotoluene	500	521	104	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	488	98	
TATB	500	500	100	
tris(o-cresyl) phosphate	500	498	100	

Recovery Limits:

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

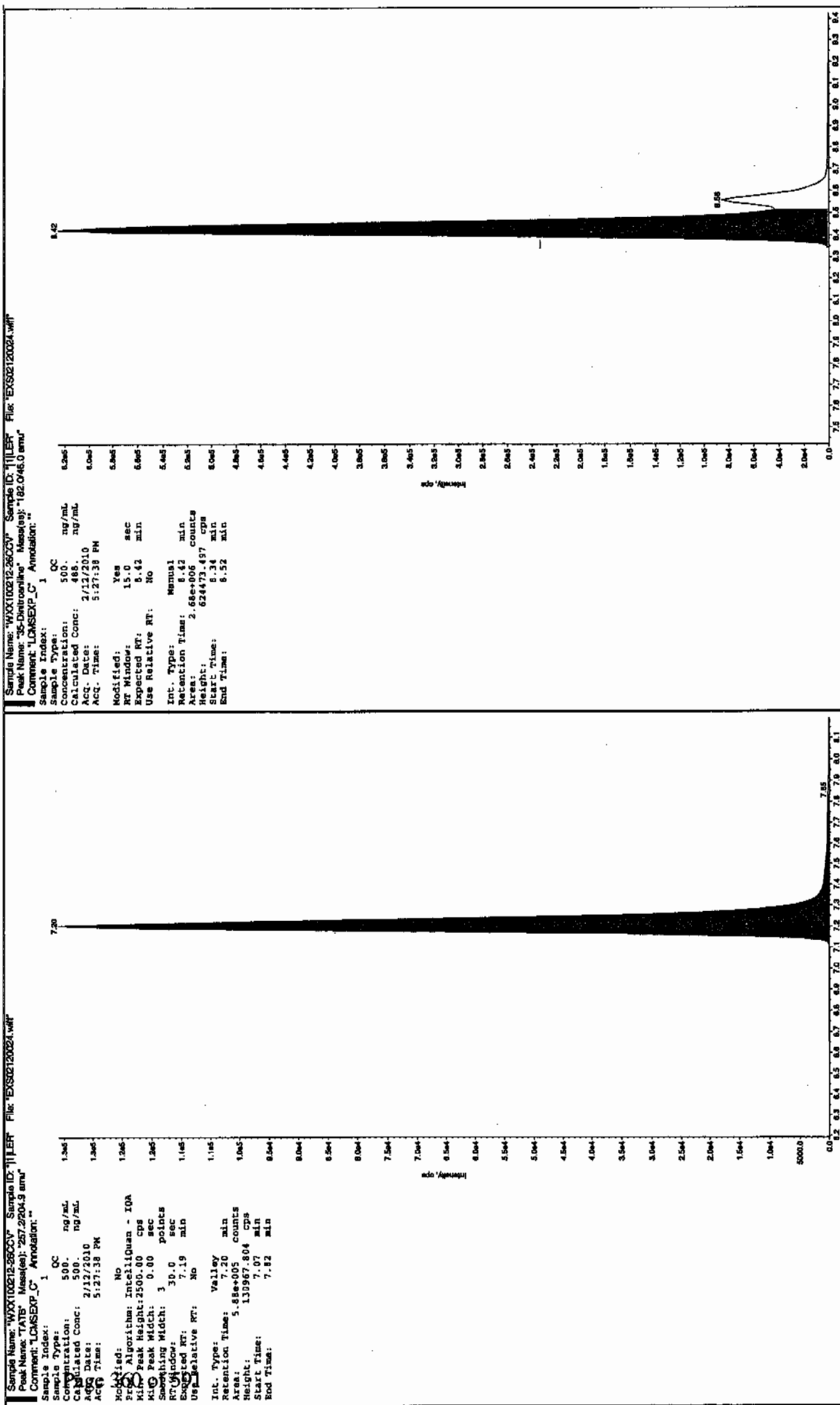
Other Target Analytes 80-120%

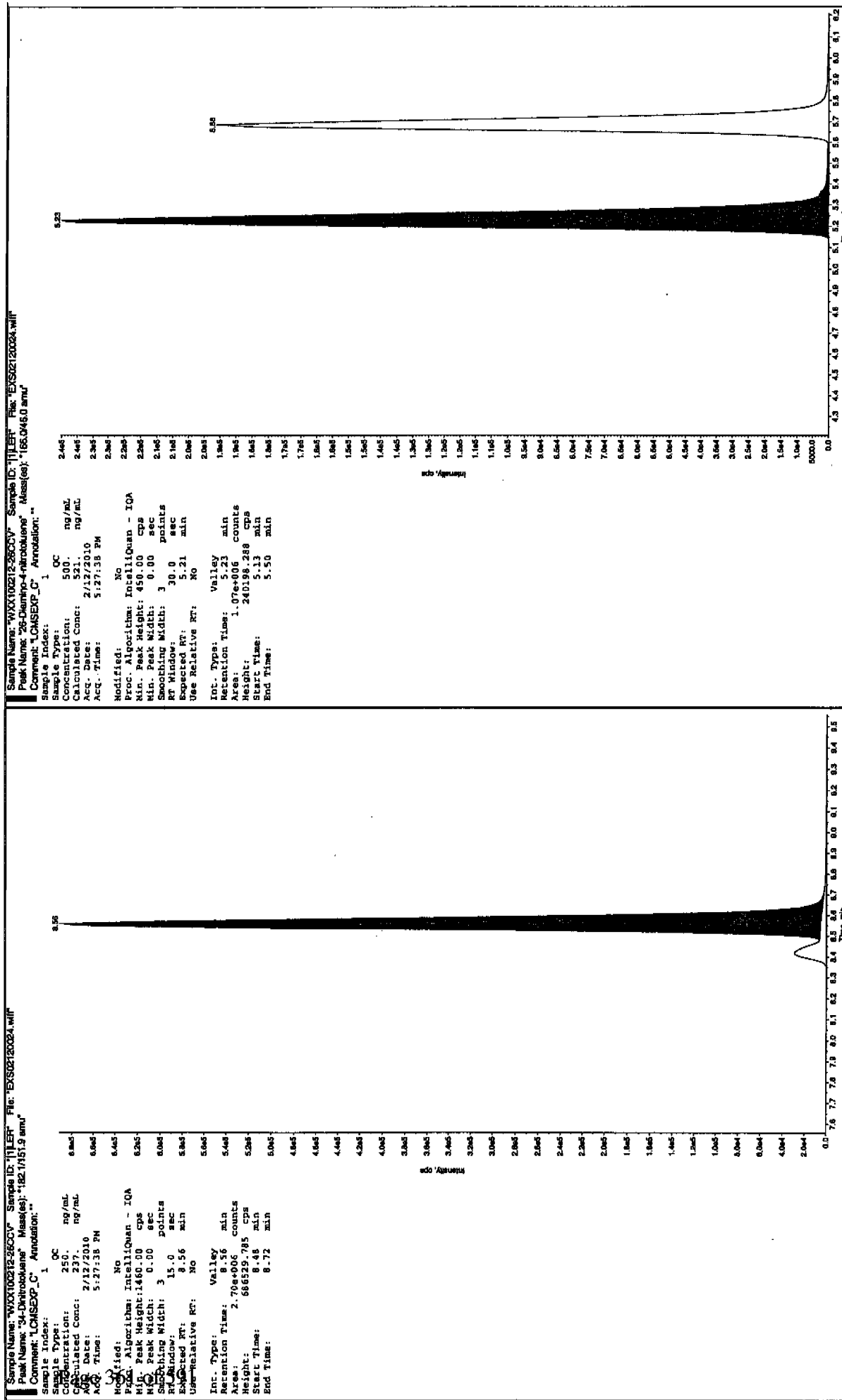
# Column used to flag Recovery outside of Limits

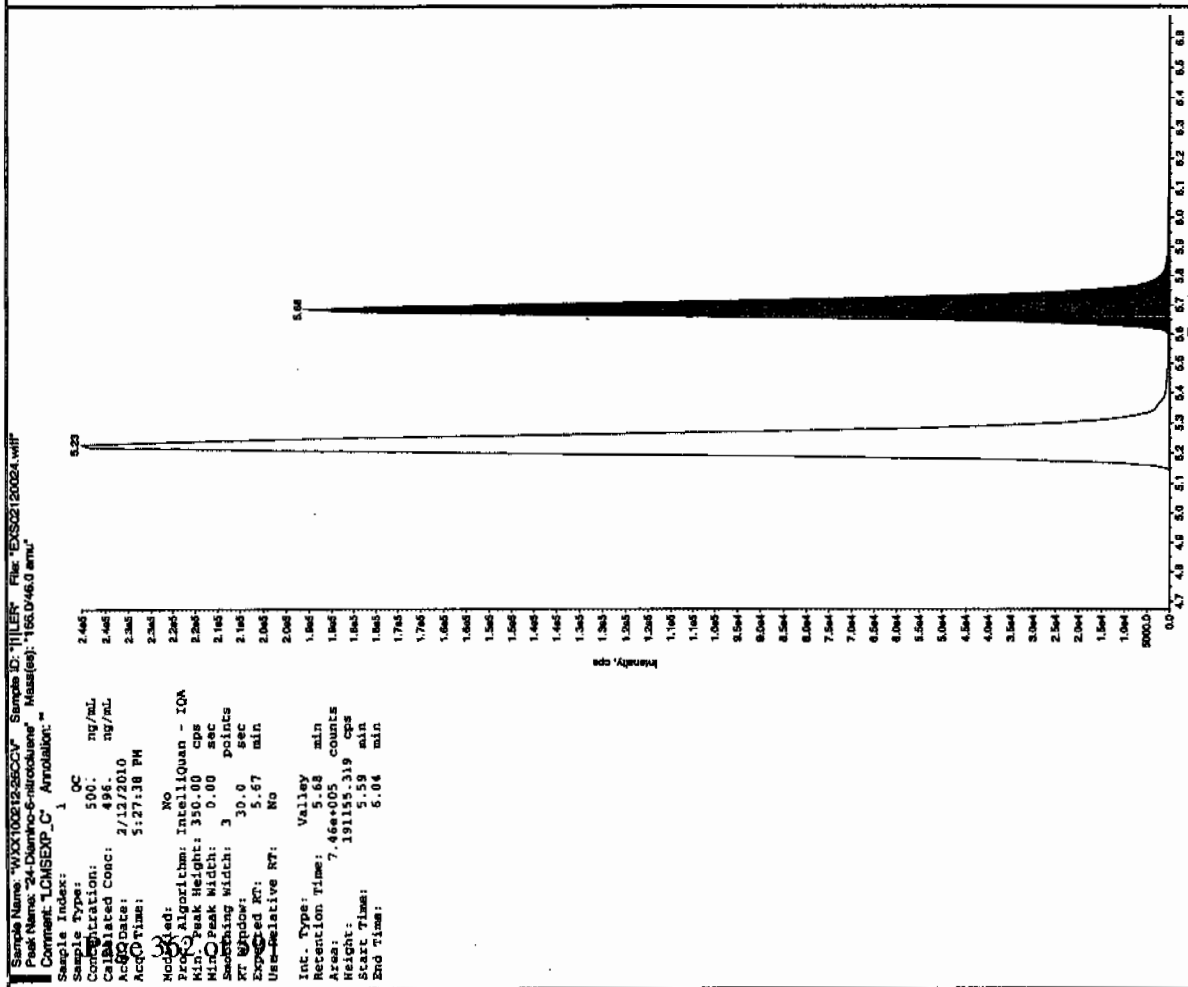
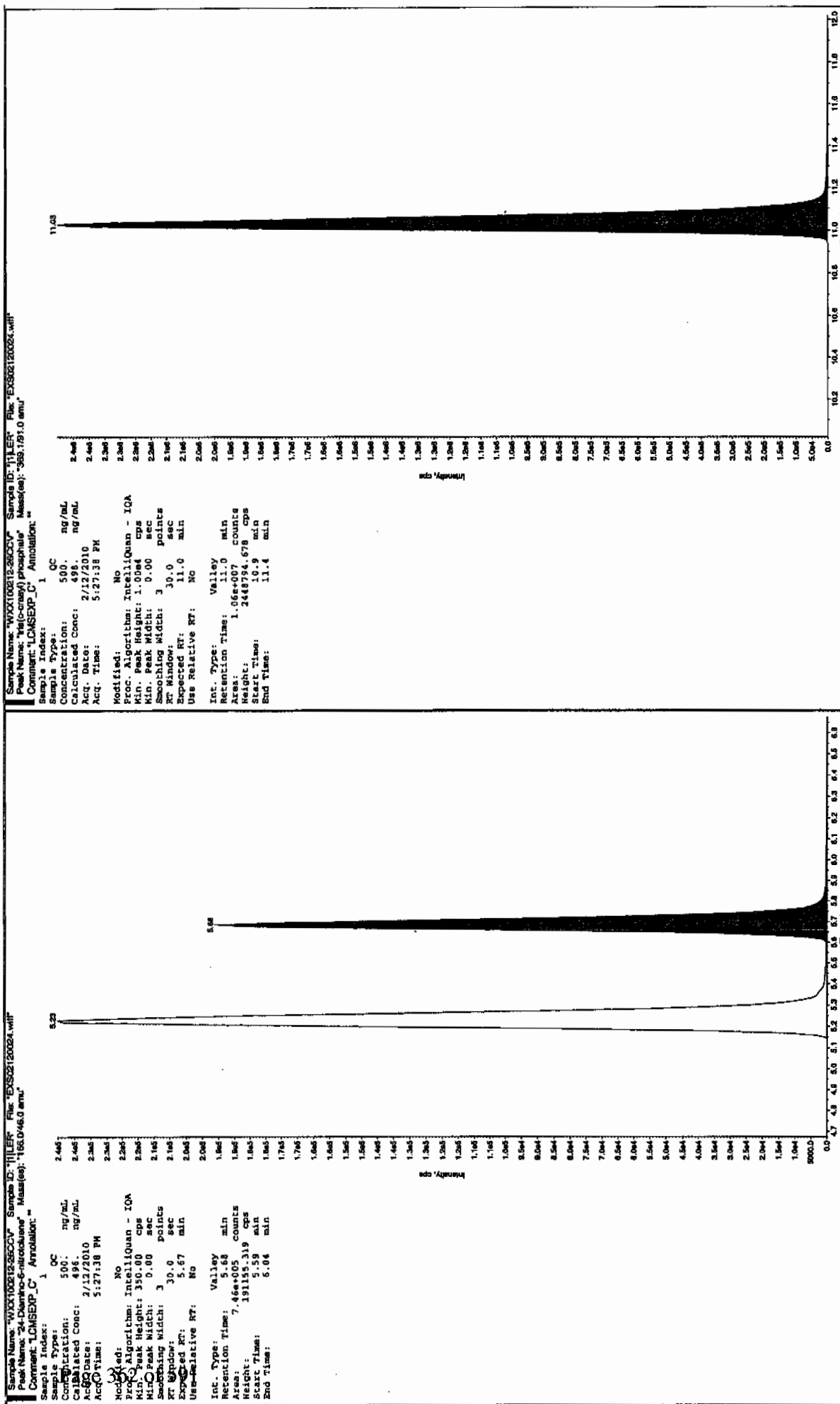
\* Value outside of Recovery Limits



after Jan 2/15/10







7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02120026.wiff

Analysis Date: 12-FEB-10 17:59

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	100	101	101	
2,4-Diamino-6-nitrotoluene	100	74.4	74	
2,6-Diamino-4-nitrotoluene	100	80.5	81	
3,4-Dinitrotoluene	50	49.8	100	
3,5-Dinitroaniline	100	92.3	92	
TATB	100	99.7	100	

Recovery Limits:

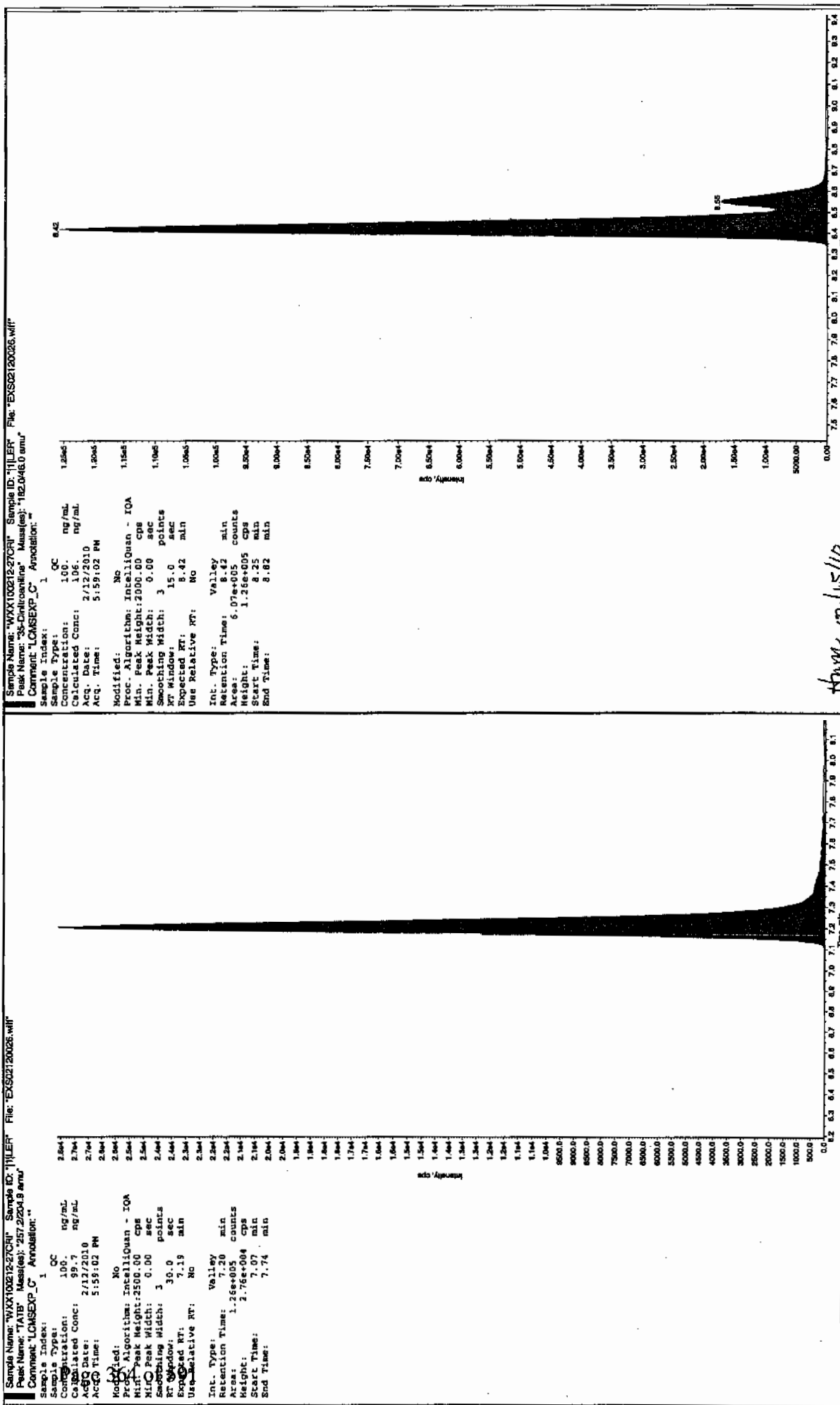
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

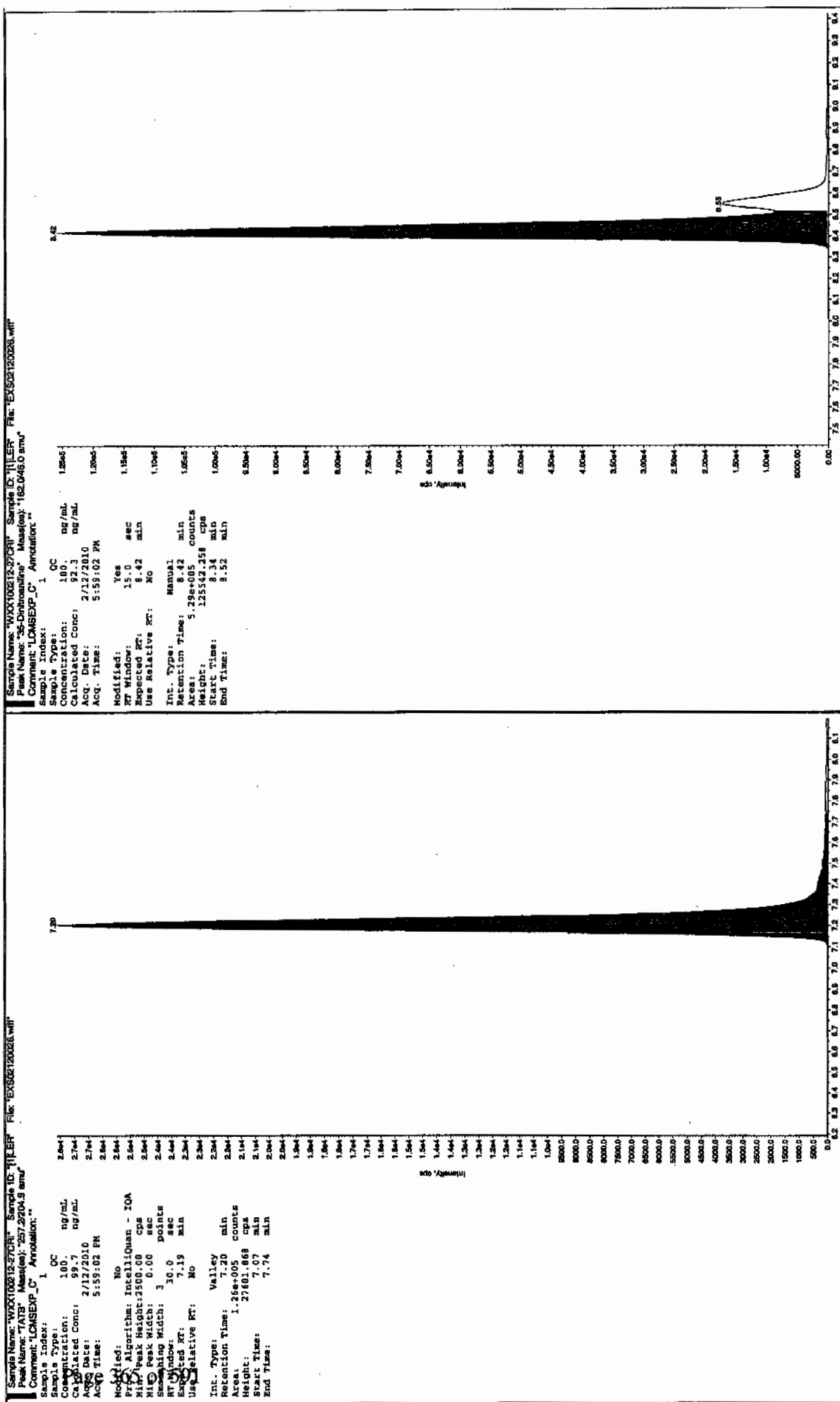
\* Value outside of Recovery Limits

Before Jan 21/10

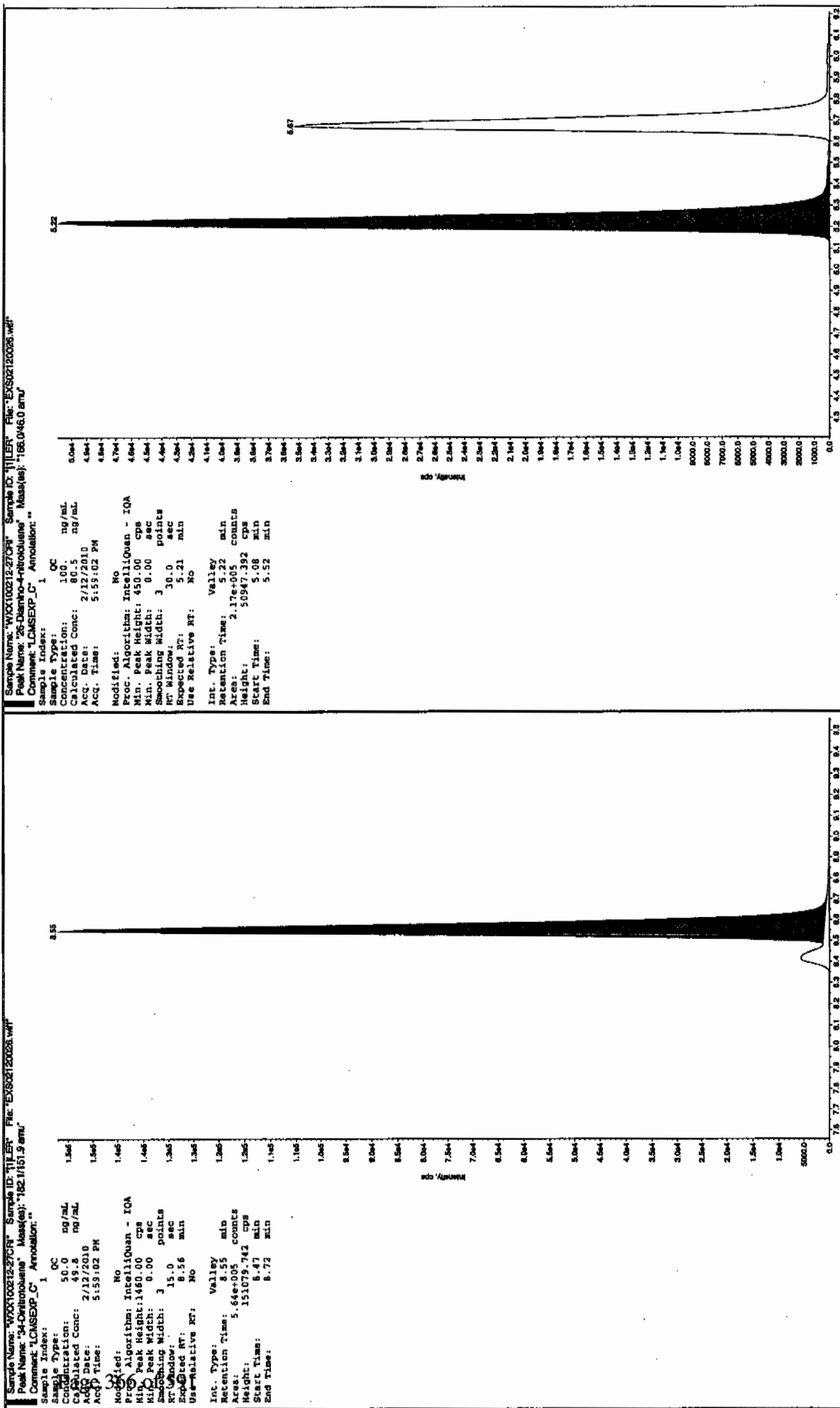


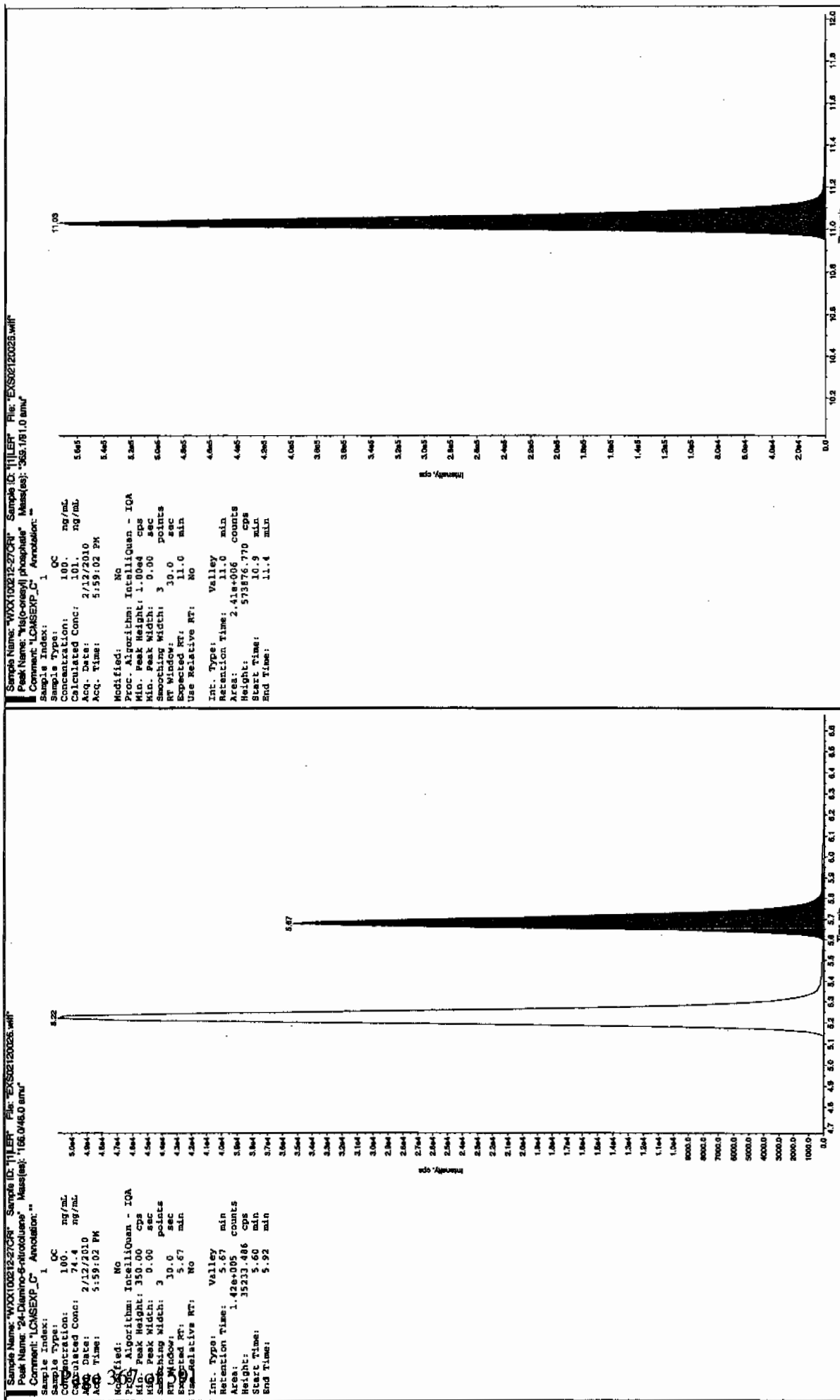
After m.lus10

after Jan 21/15/10









7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02120036.wiff

Analysis Date: 12-FEB-10 20:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	448	90	
2,6-Diamino-4-nitrotoluene	500	522	104	
3,4-Dinitrotoluene	250	253	101	
3,5-Dinitroaniline	500	503	101	
TATB	500	592	118	
tris(o-cresyl) phosphate	500	516	103	

Recovery Limits:

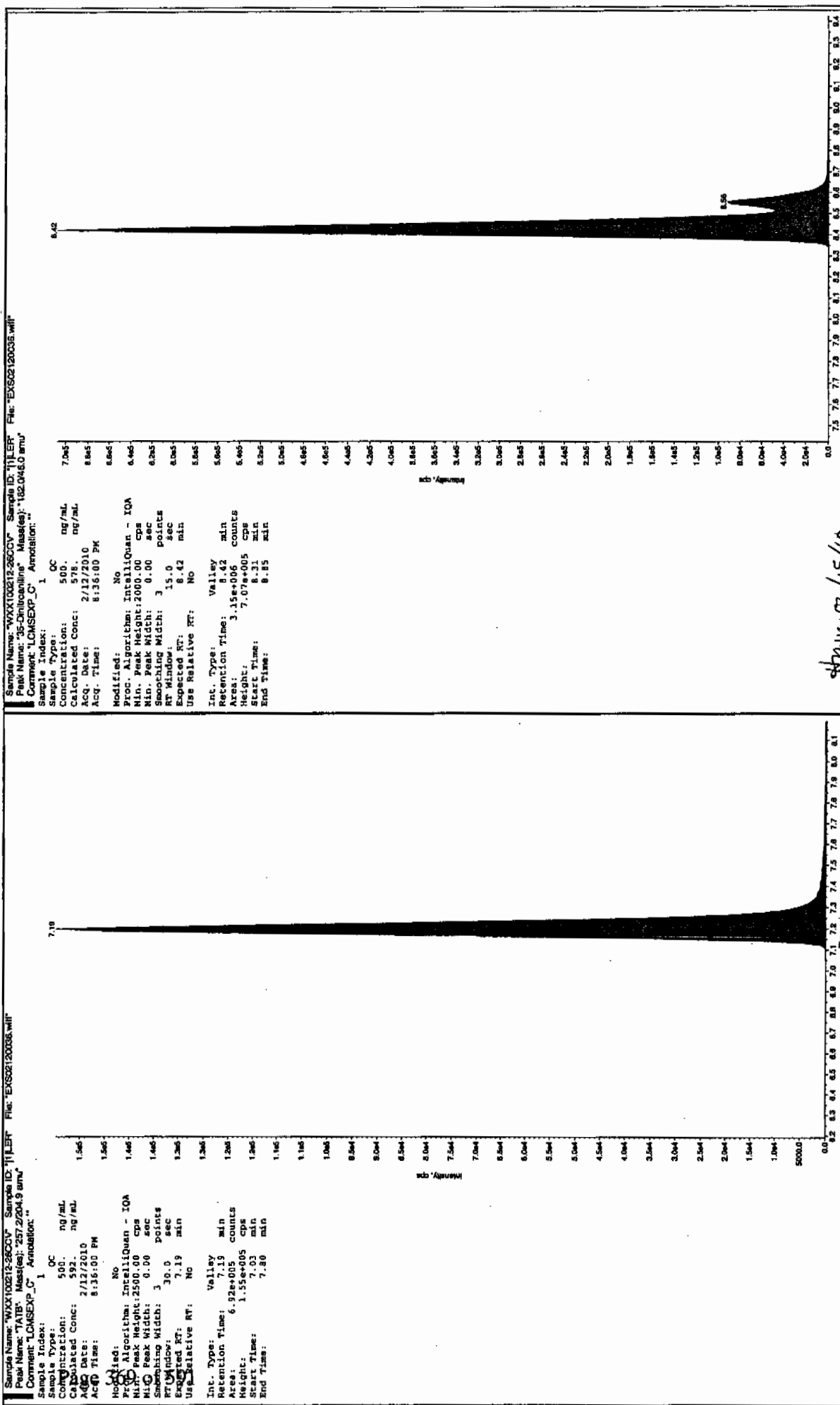
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

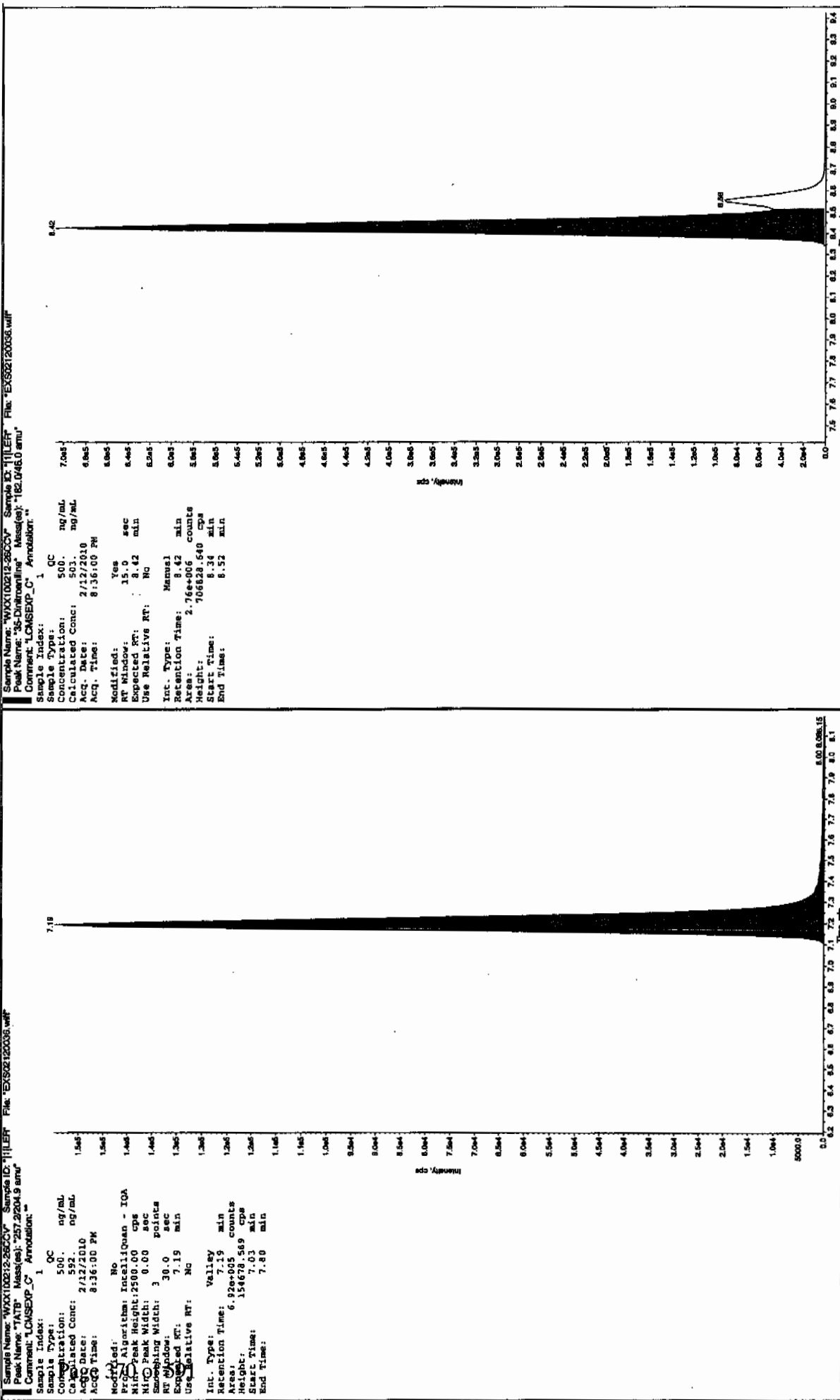
\* Value outside of Recovery Limits

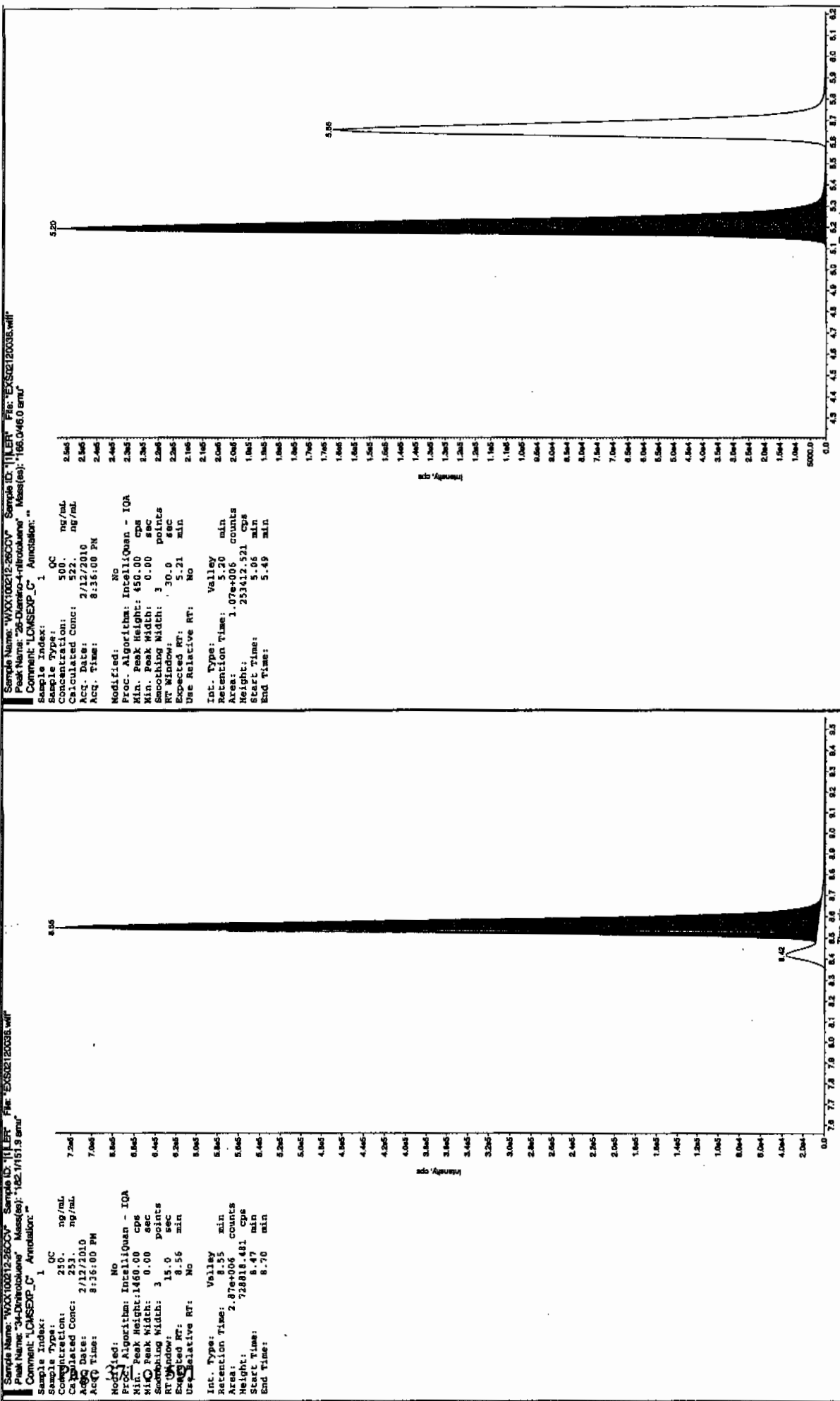
Before Jan 2/15/10

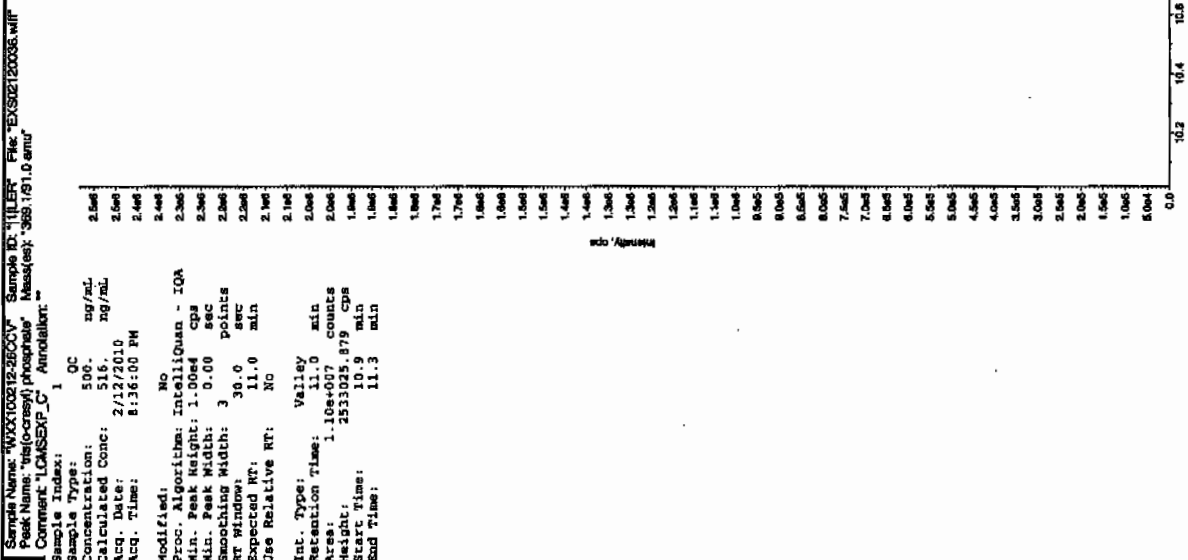
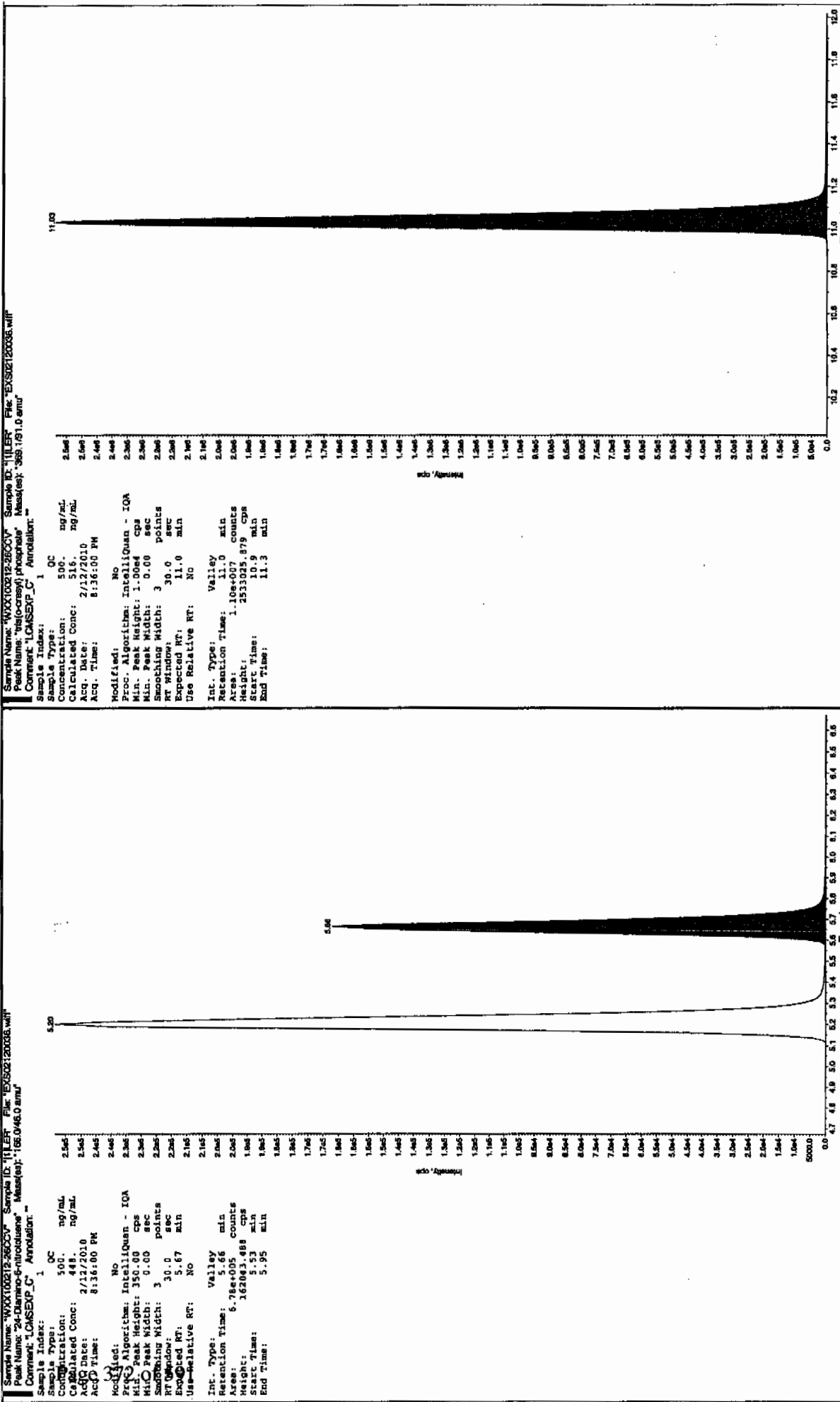


After Jan 2/15/10

after Scan 21510







7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02120038.wiff

Analysis Date: 12-FEB-10 21:07

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	72.6	73	
2,6-Diamino-4-nitrotoluene	100	85.9	86	
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	104	104	
TATB	100	118	118	
tris(o-cresyl) phosphate	100	105	105	

Recovery Limits:

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

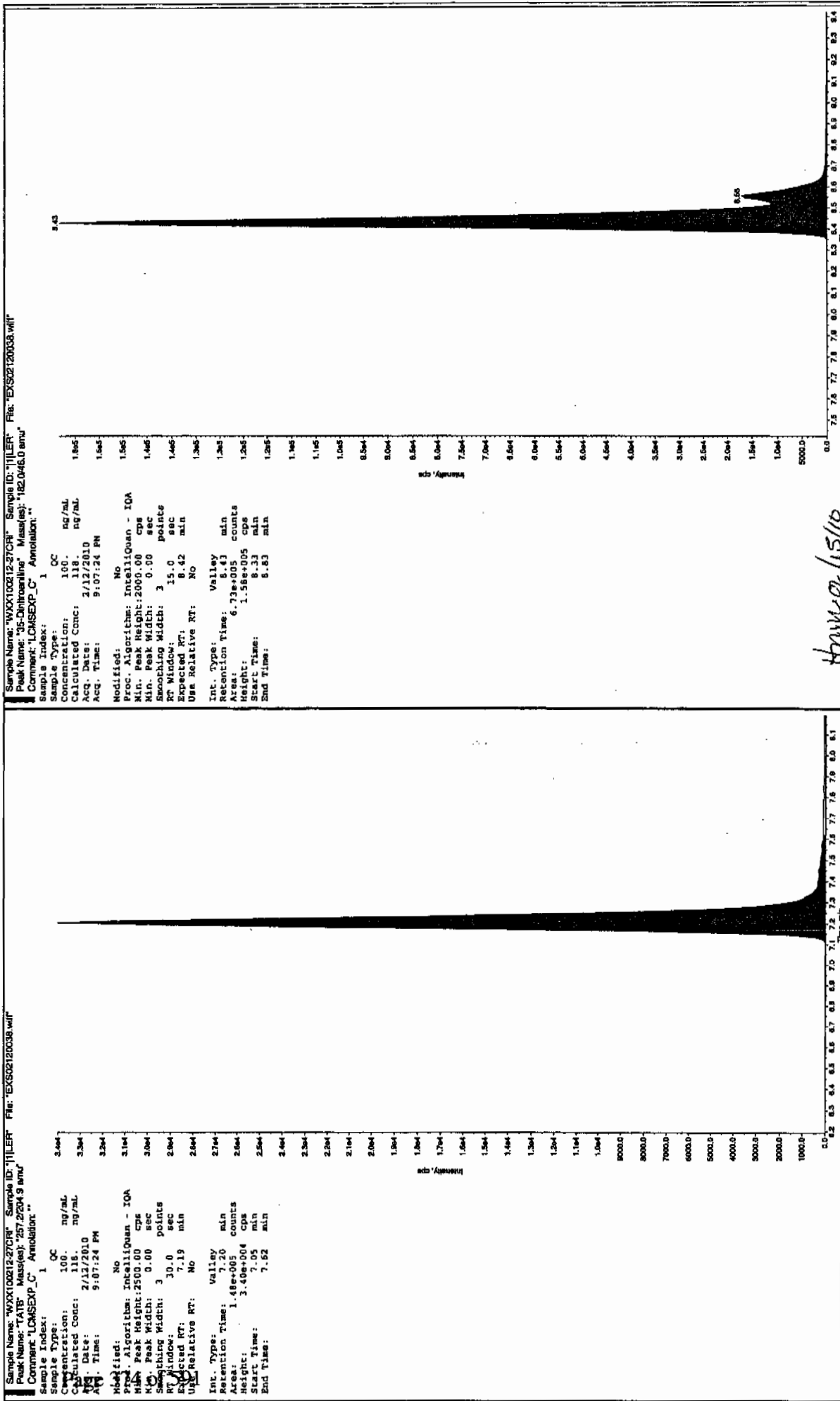
Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

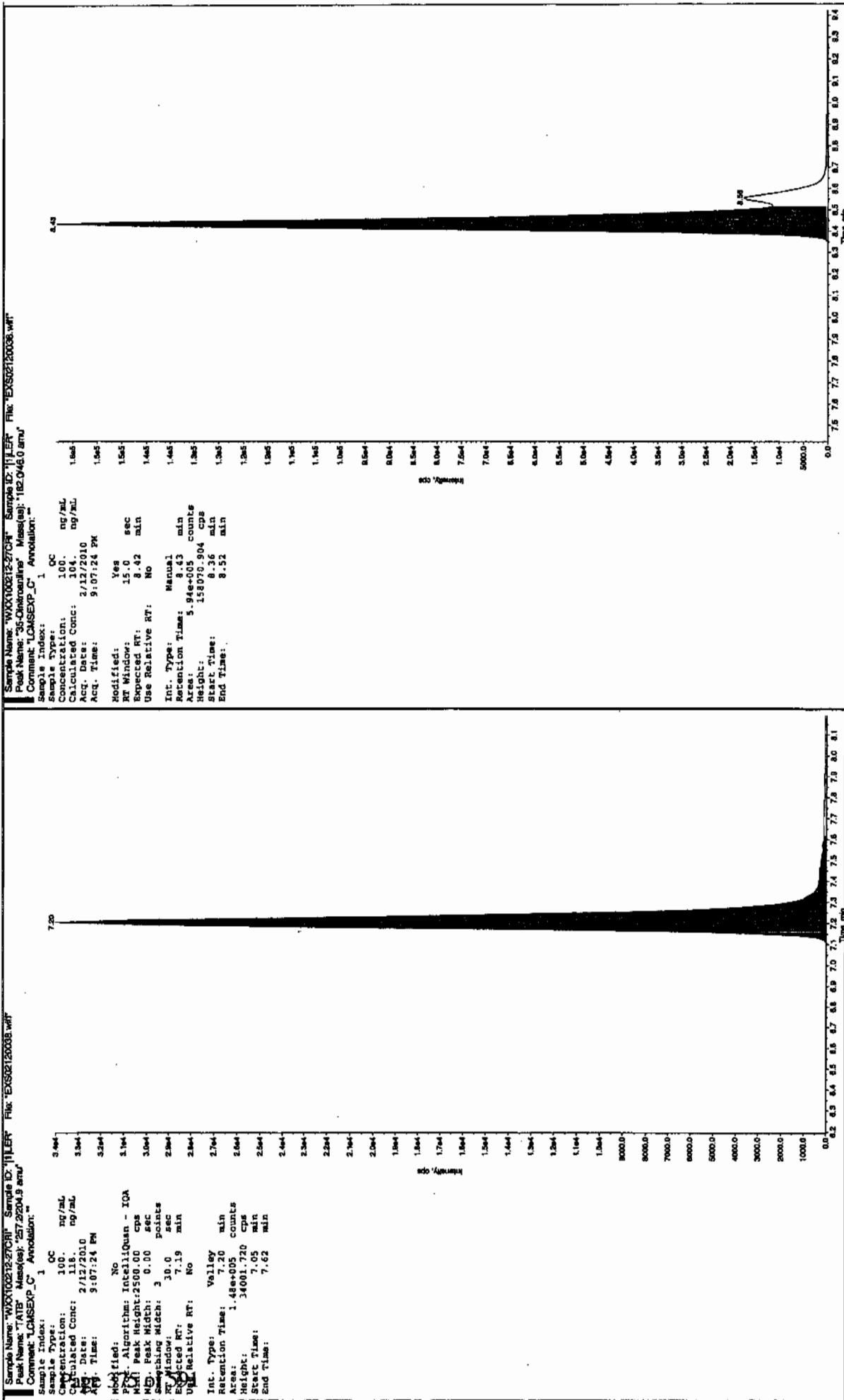


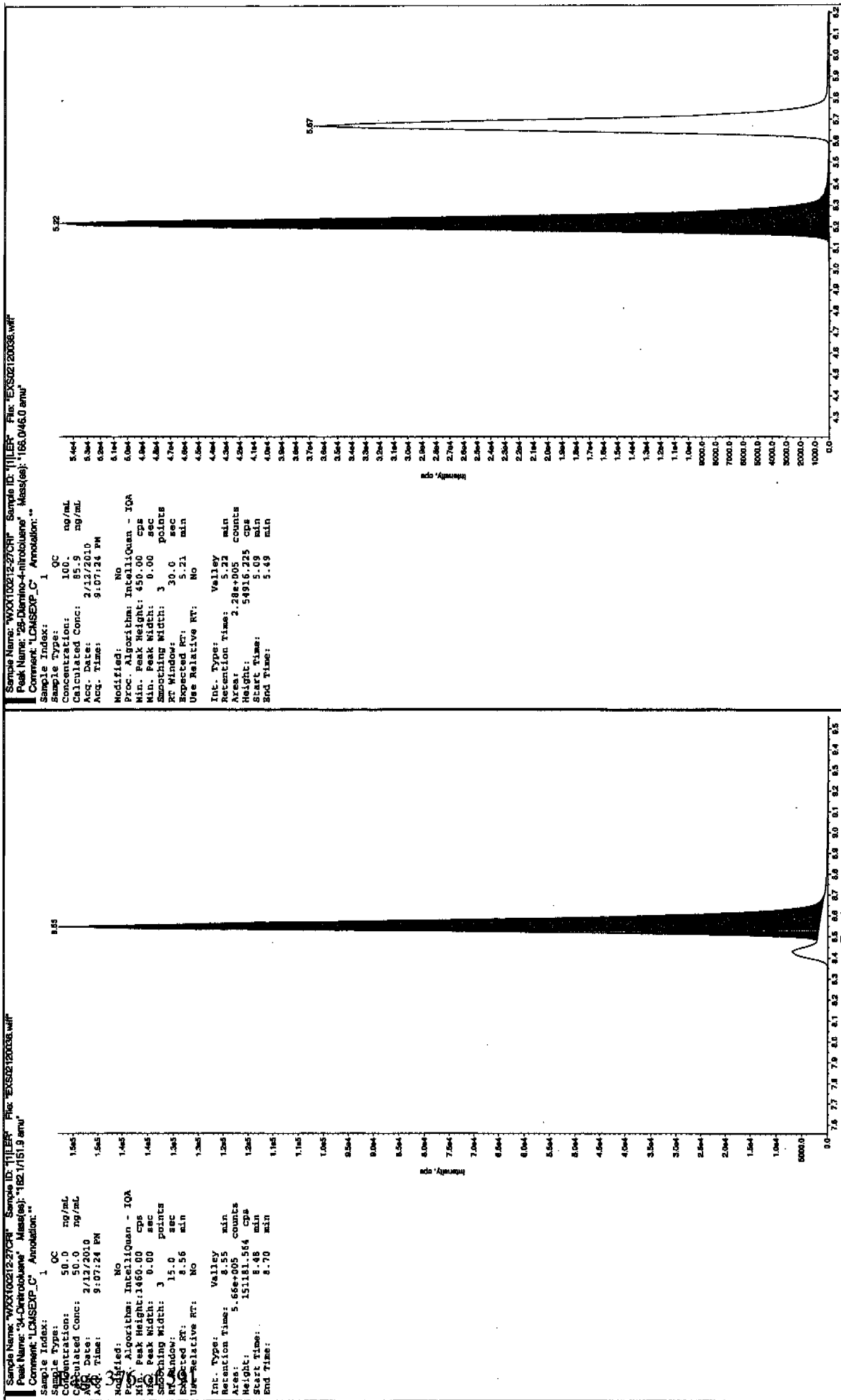
Before Scan 2/15/10

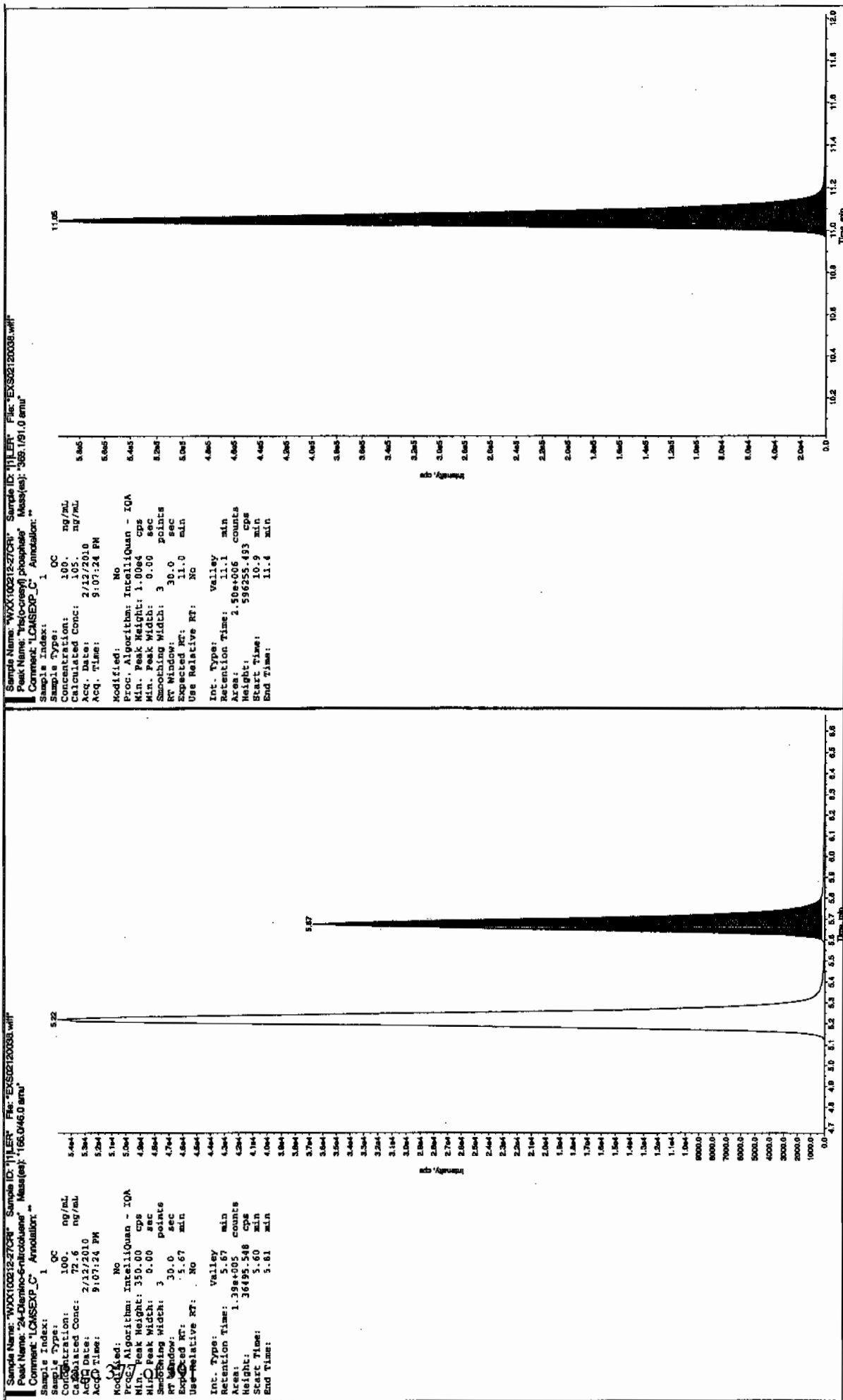


After Scan 2/15/10

after Jan 2/15/10







7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02120049.wiff

Analysis Date: 13-FEB-10 00:00

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	520	104	
2,4-Diamino-6-nitrotoluene	500	558	112	
2,6-Diamino-4-nitrotoluene	500	630	126	
3,4-Dinitrotoluene	250	255	102	
3,5-Dinitroaniline	500	561	112	
TATB	500	627	125	

Recovery Limits:

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

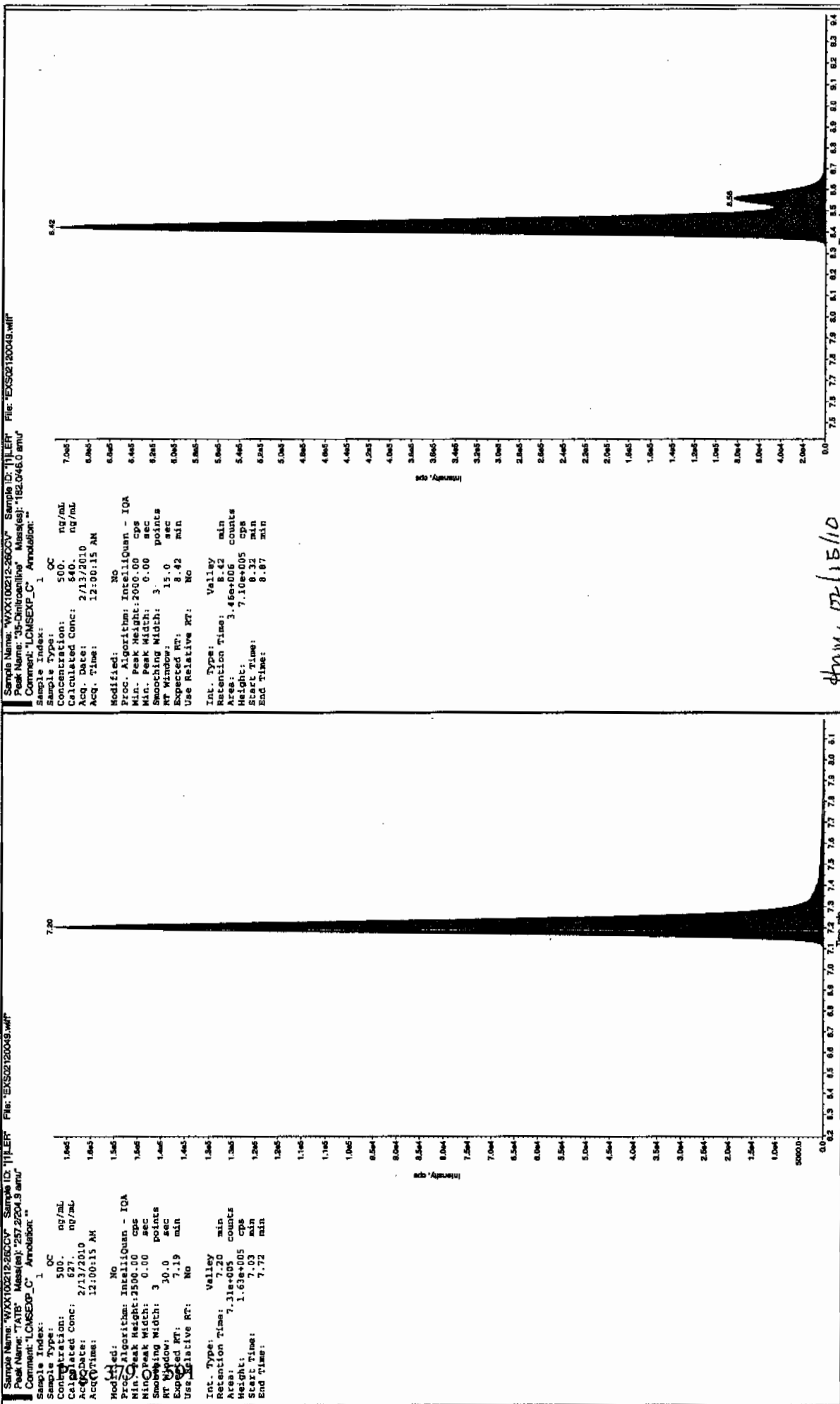
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

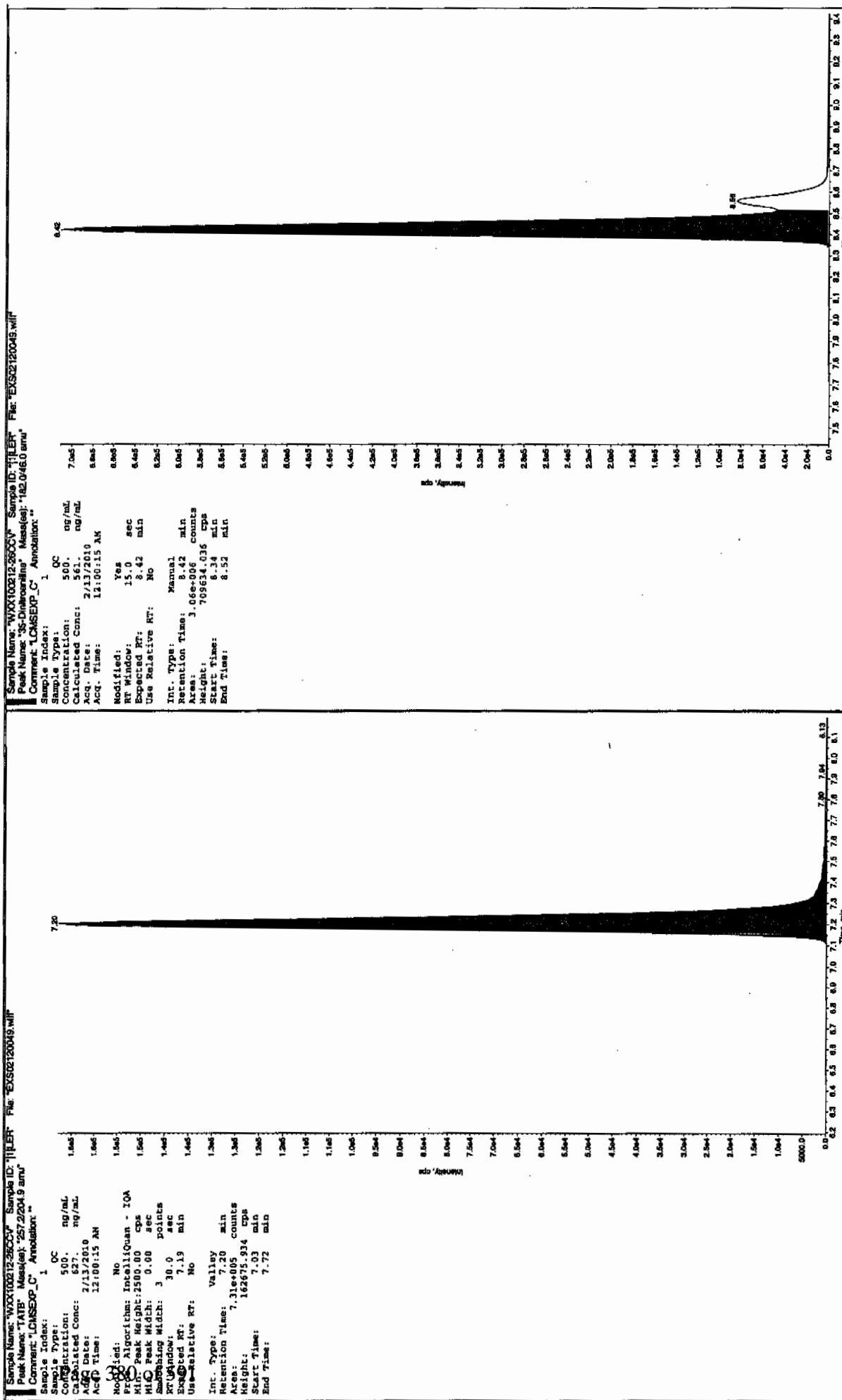
\* Value outside of Recovery Limits

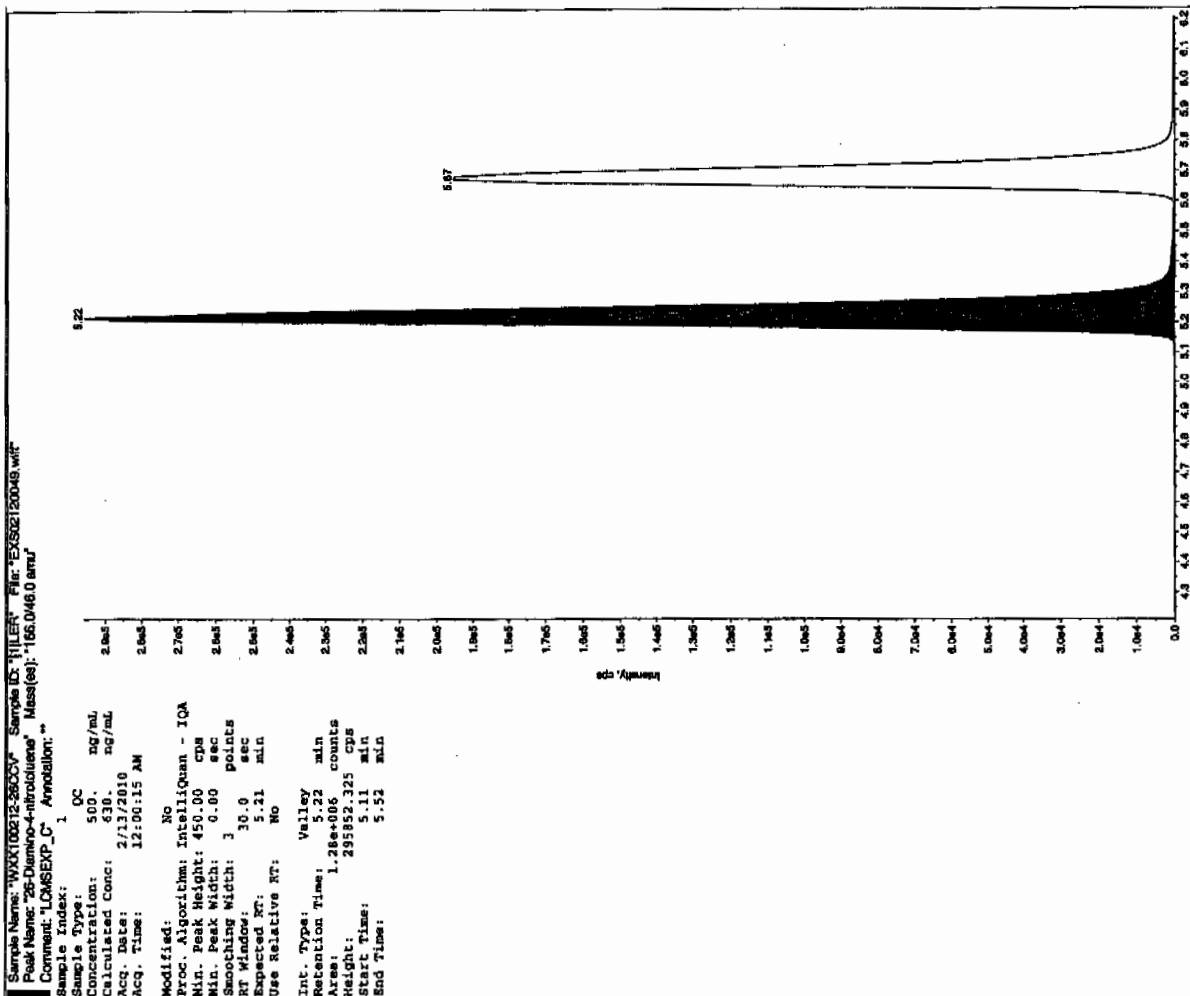
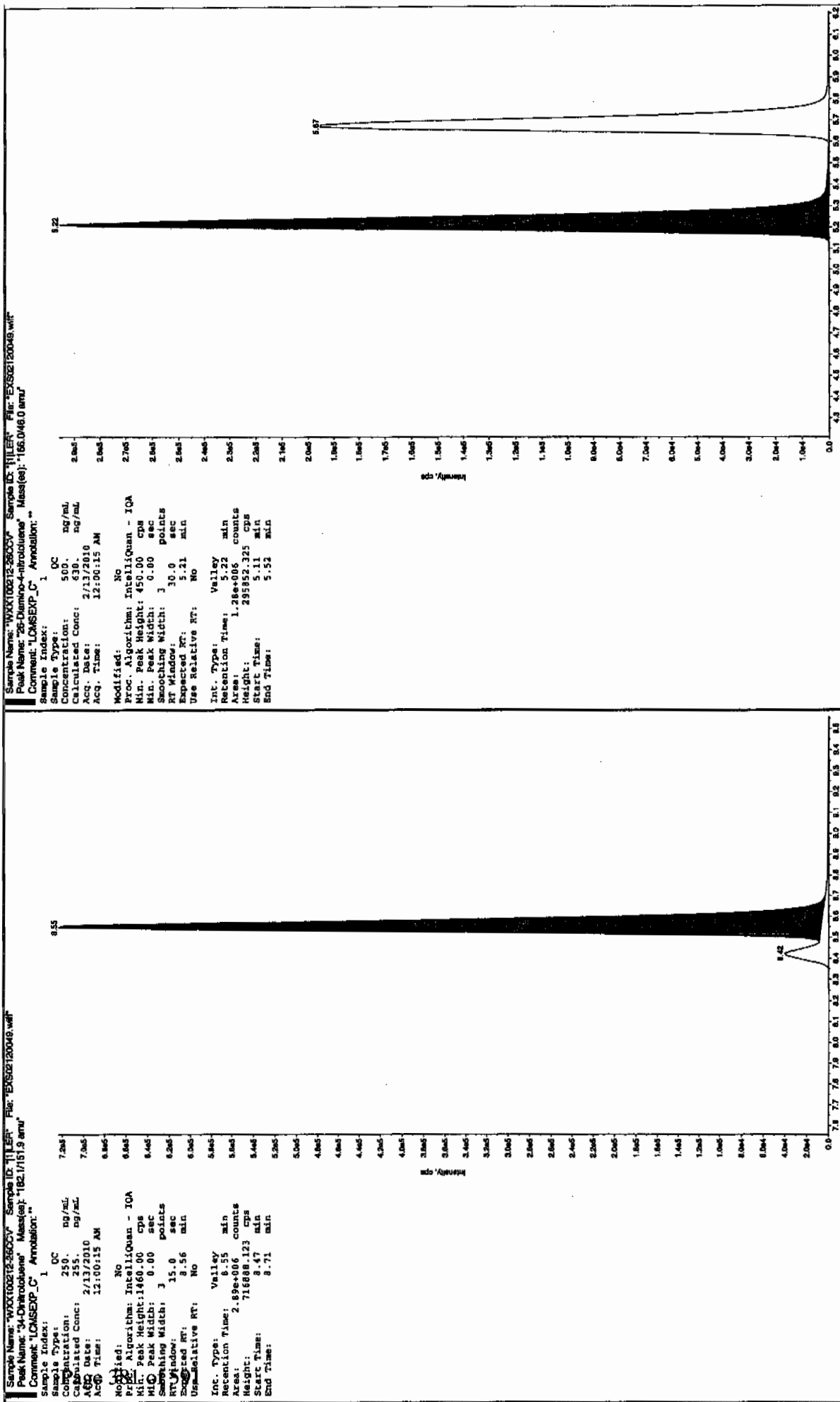
Before Jan 21/10



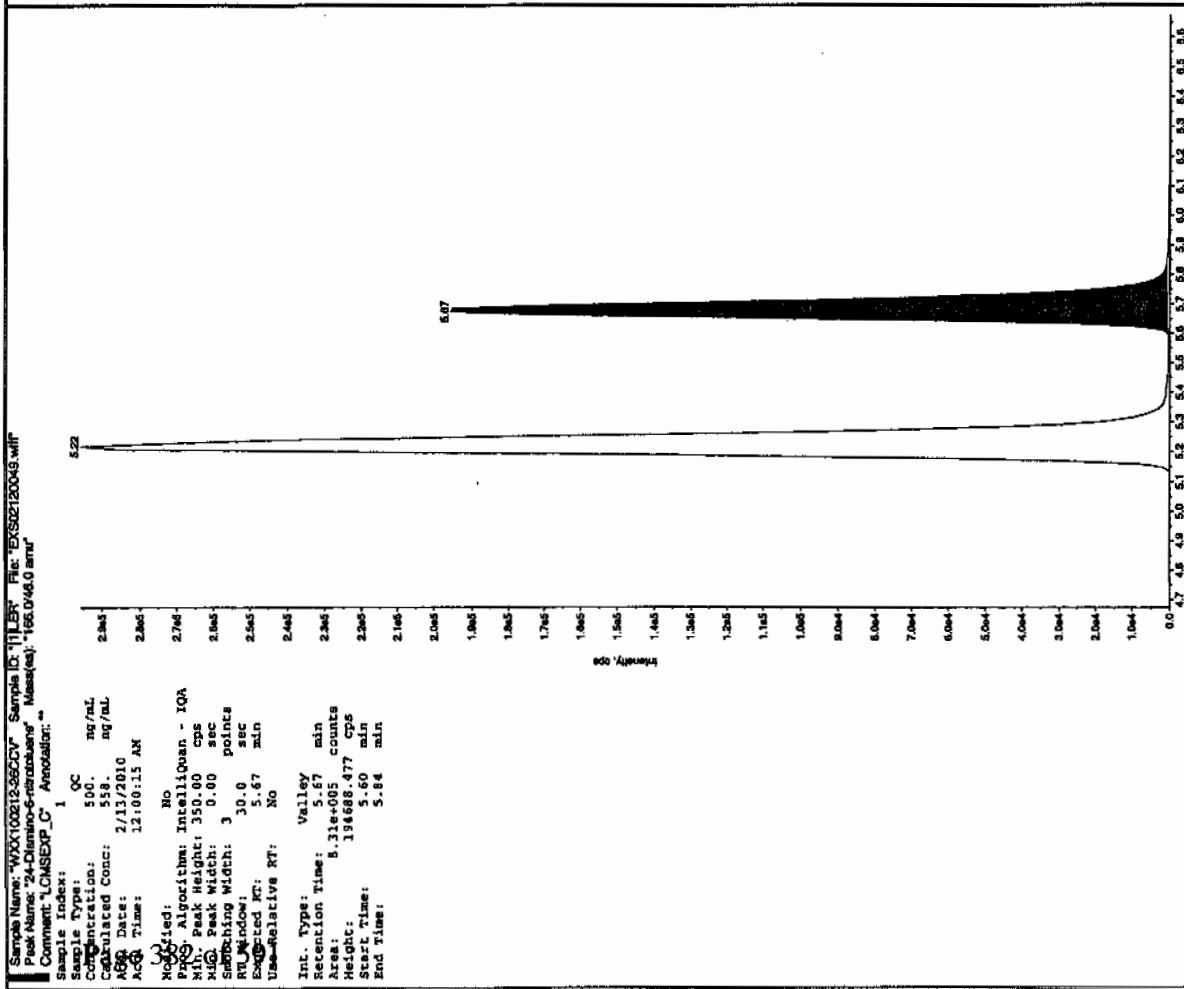
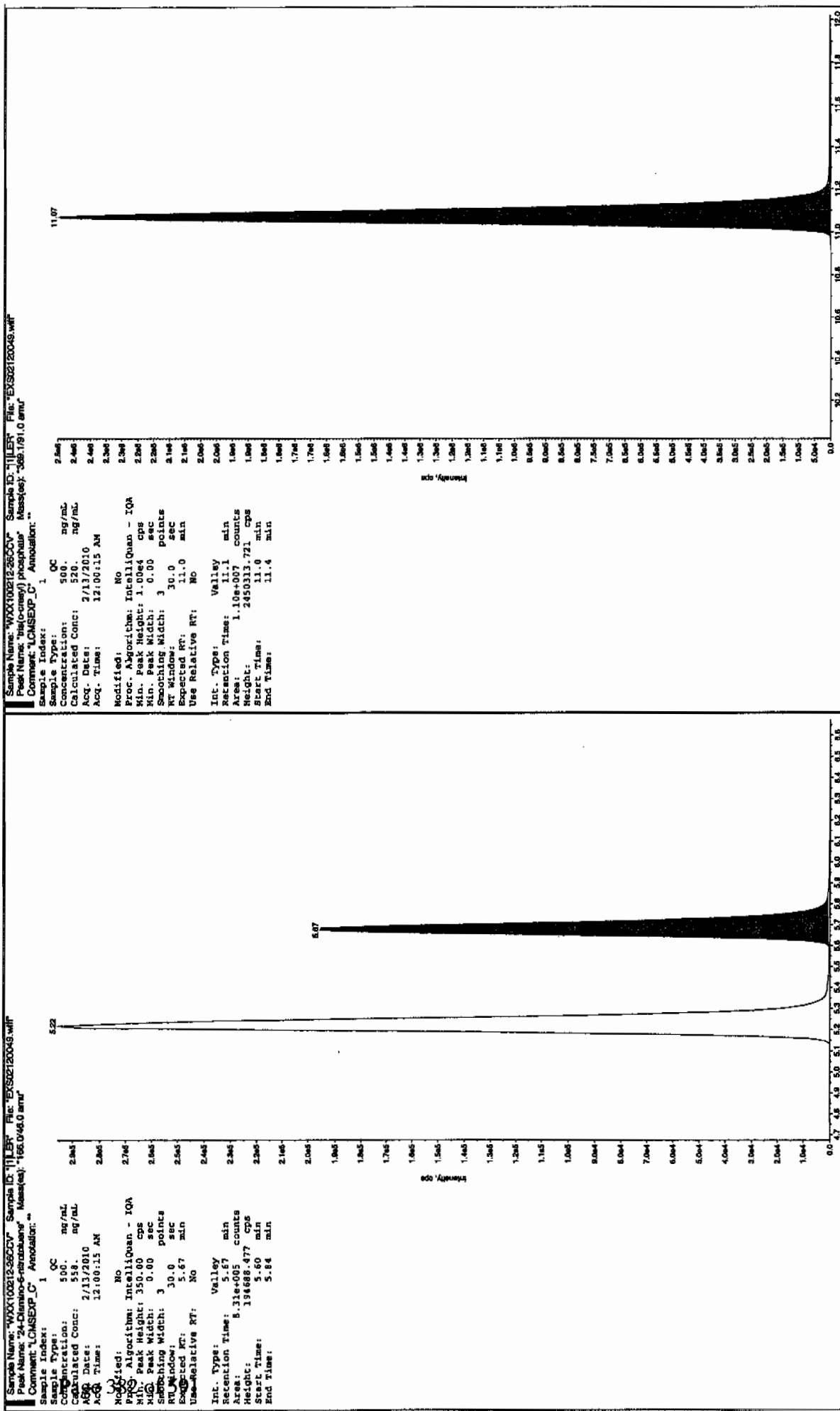
4mm, 02/15/10

after 2/15/10









7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02120051.wiff

Analysis Date: 13-FEB-10 00:31

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	81.5	82	
2,6-Diamino-4-nitrotoluene	100	91.1	91	
3,4-Dinitrotoluene	50	55.5	111	
3,5-Dinitroaniline	100	109	109	
TATB	100	114	114	
tris(o-cresyl) phosphate	100	101	101	

Recovery Limits:

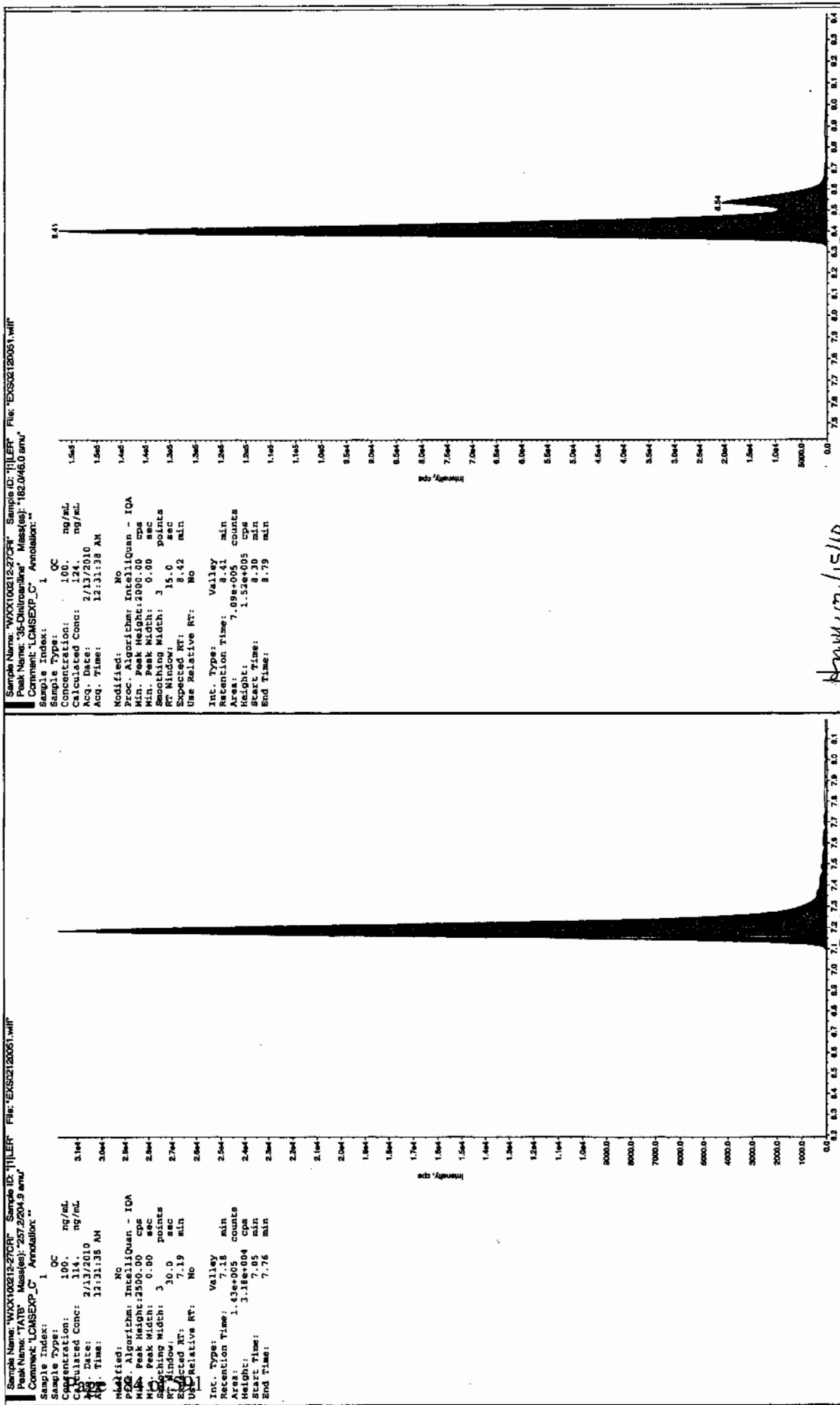
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

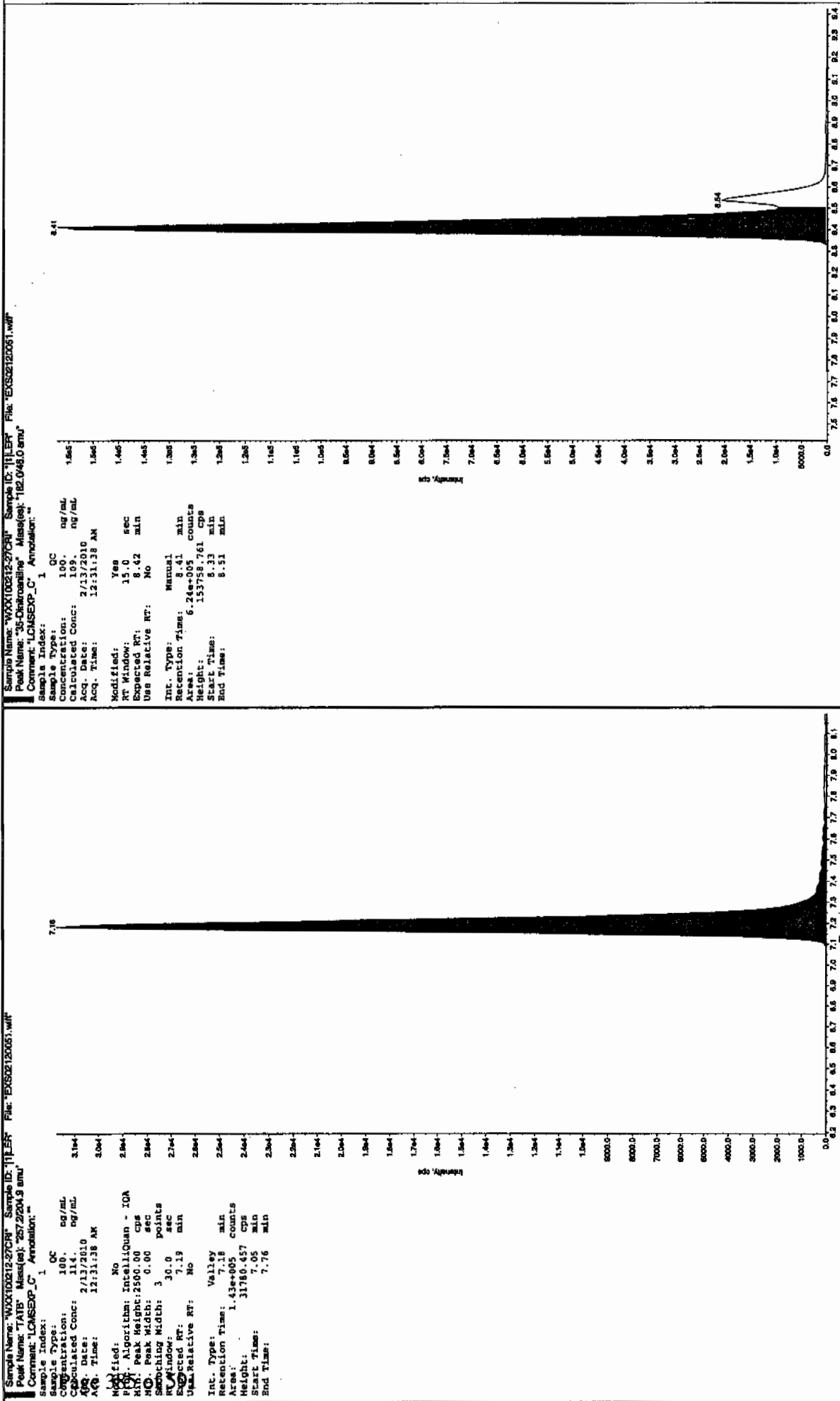
\* Value outside of Recovery Limits

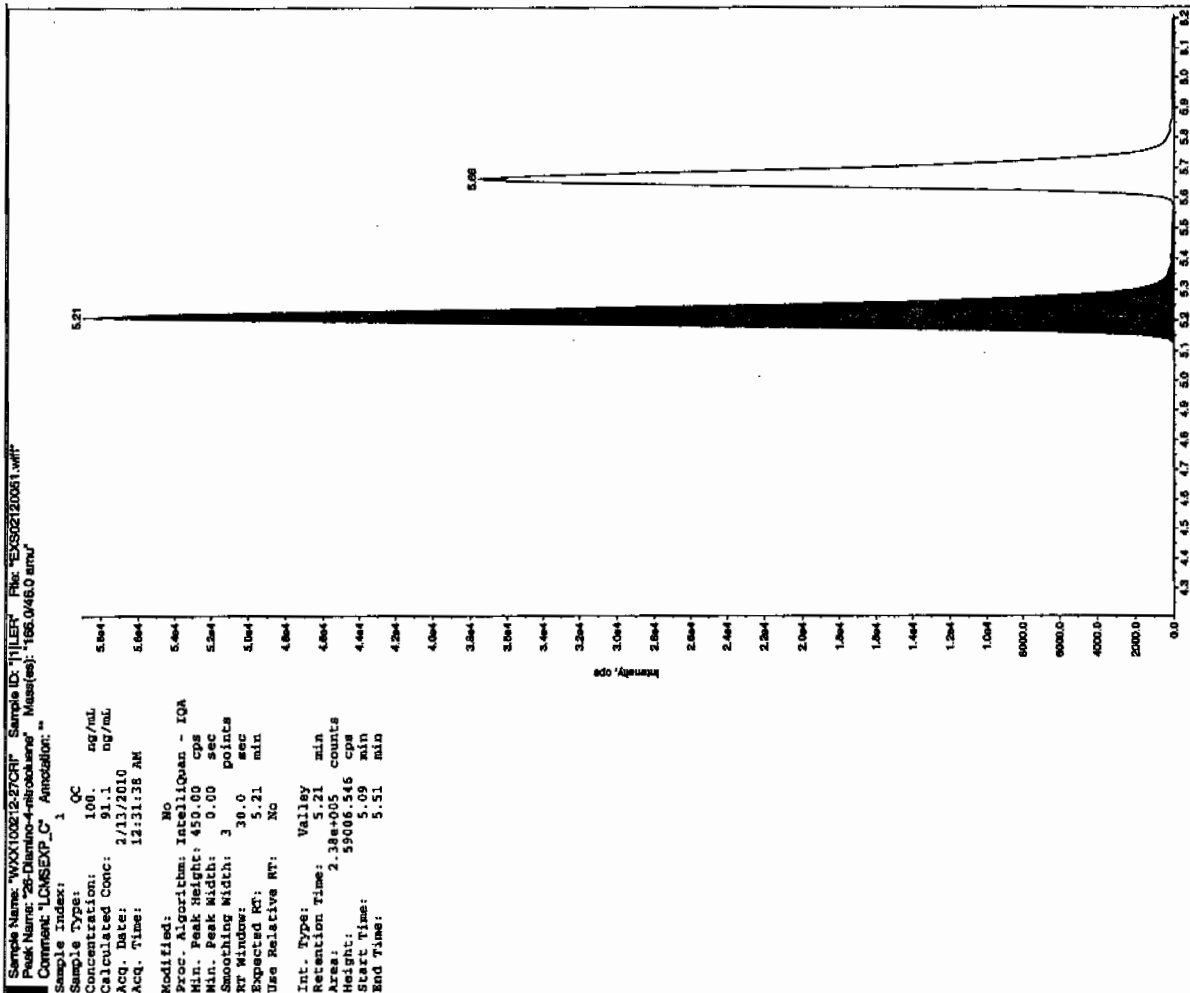
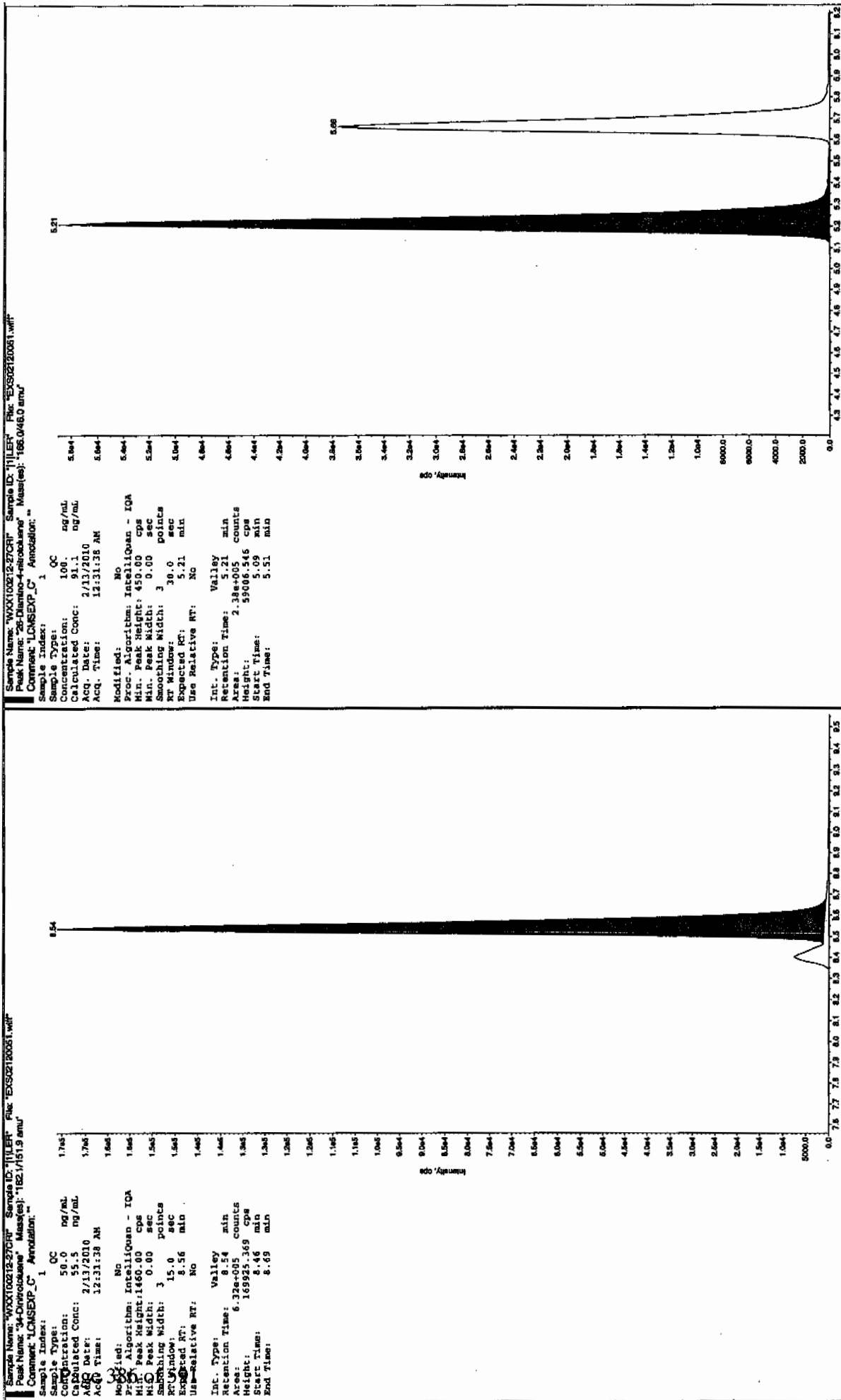
Before Jan 21/10

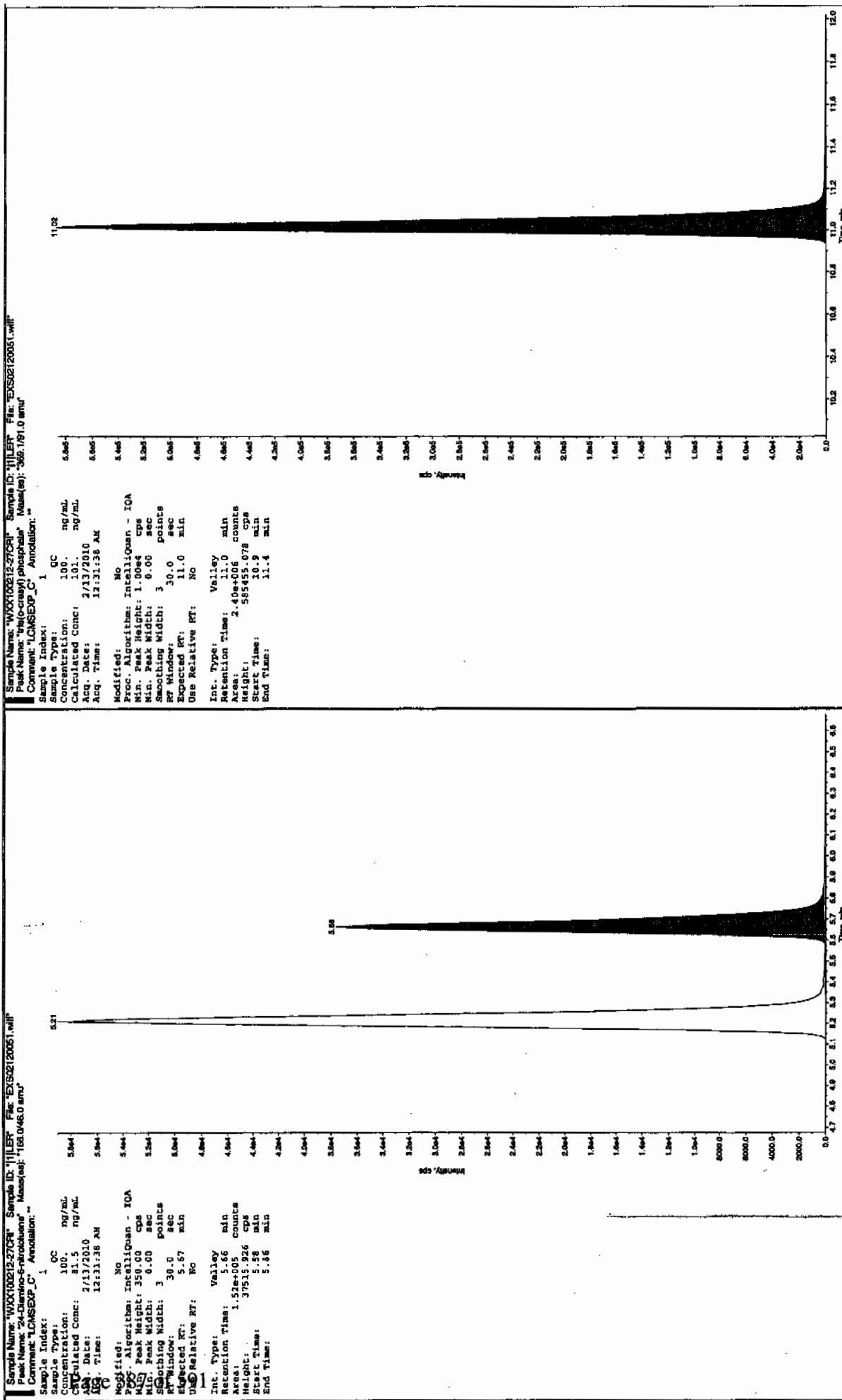


\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

after Jan 21/15/10







7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02120060.wiff

Analysis Date: 13-FEB-10 02:52

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	569	114	
2,6-Diamino-4-nitrotoluene	500	577	115	
3,4-Dinitrotoluene	250	270	108	
3,5-Dinitroaniline	500	586	117	
TATB	500	604	121	
tris(o-cresyl) phosphate	500	505	101	

Recovery Limits:

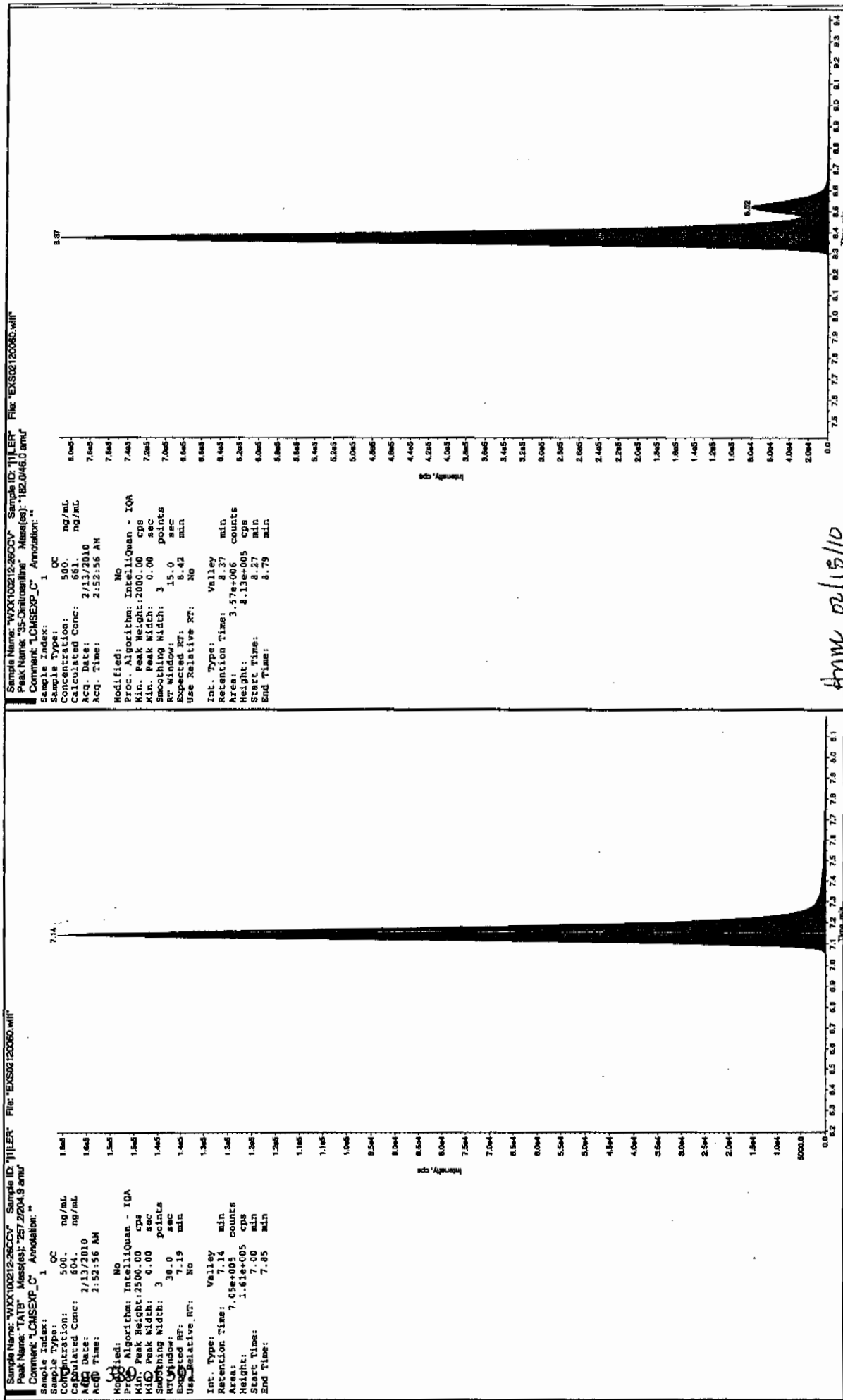
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

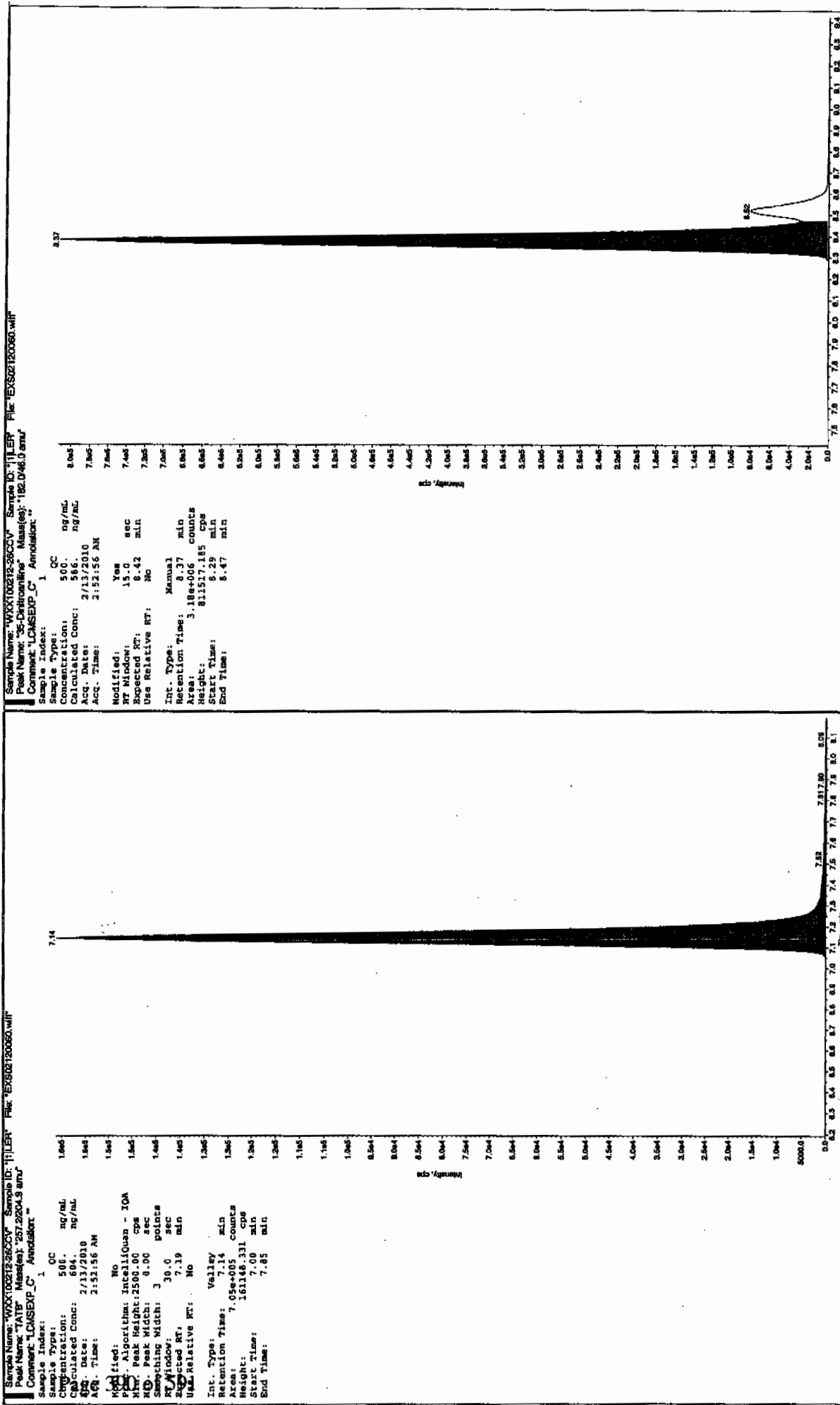
Before Jan 2/15/10

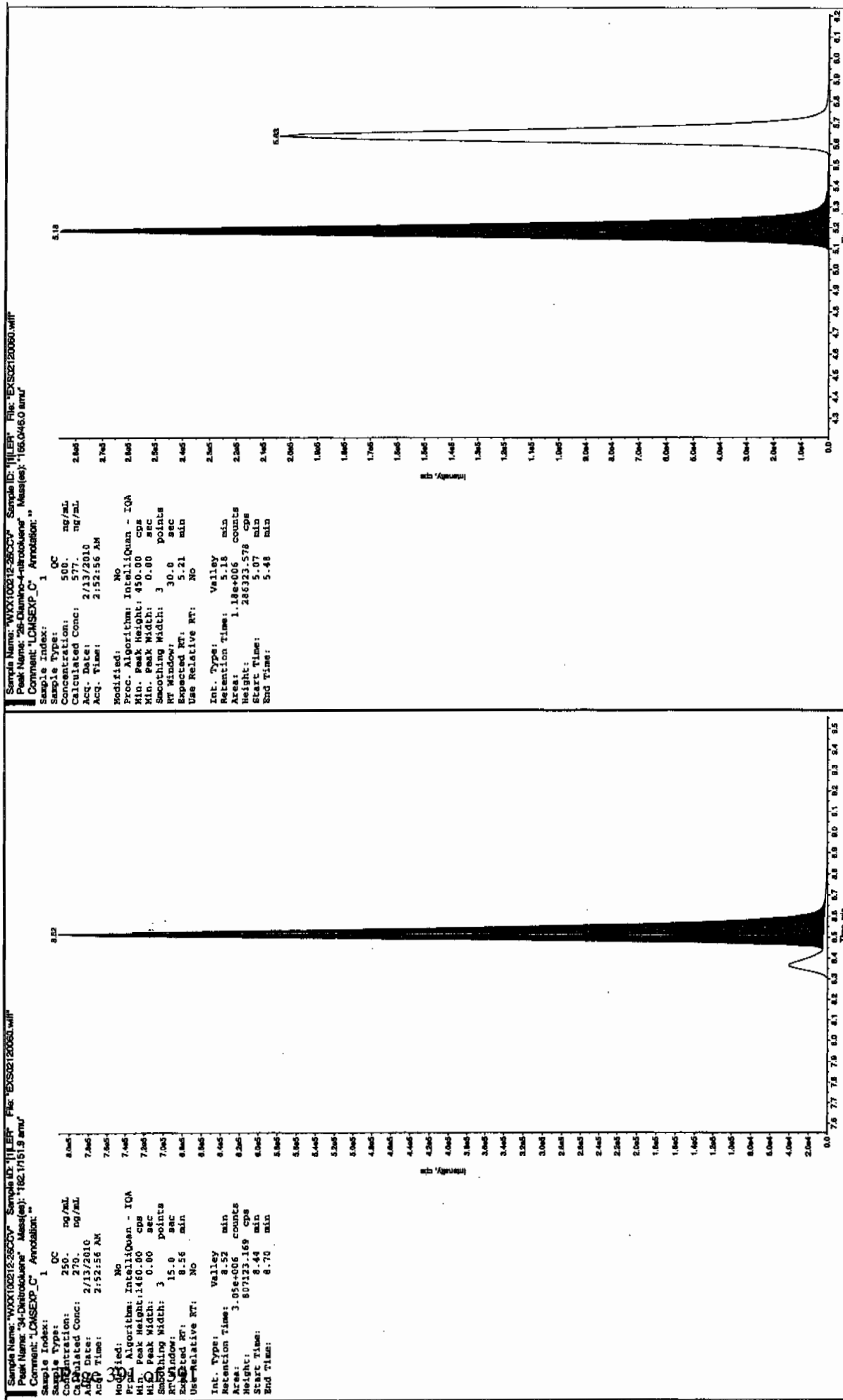


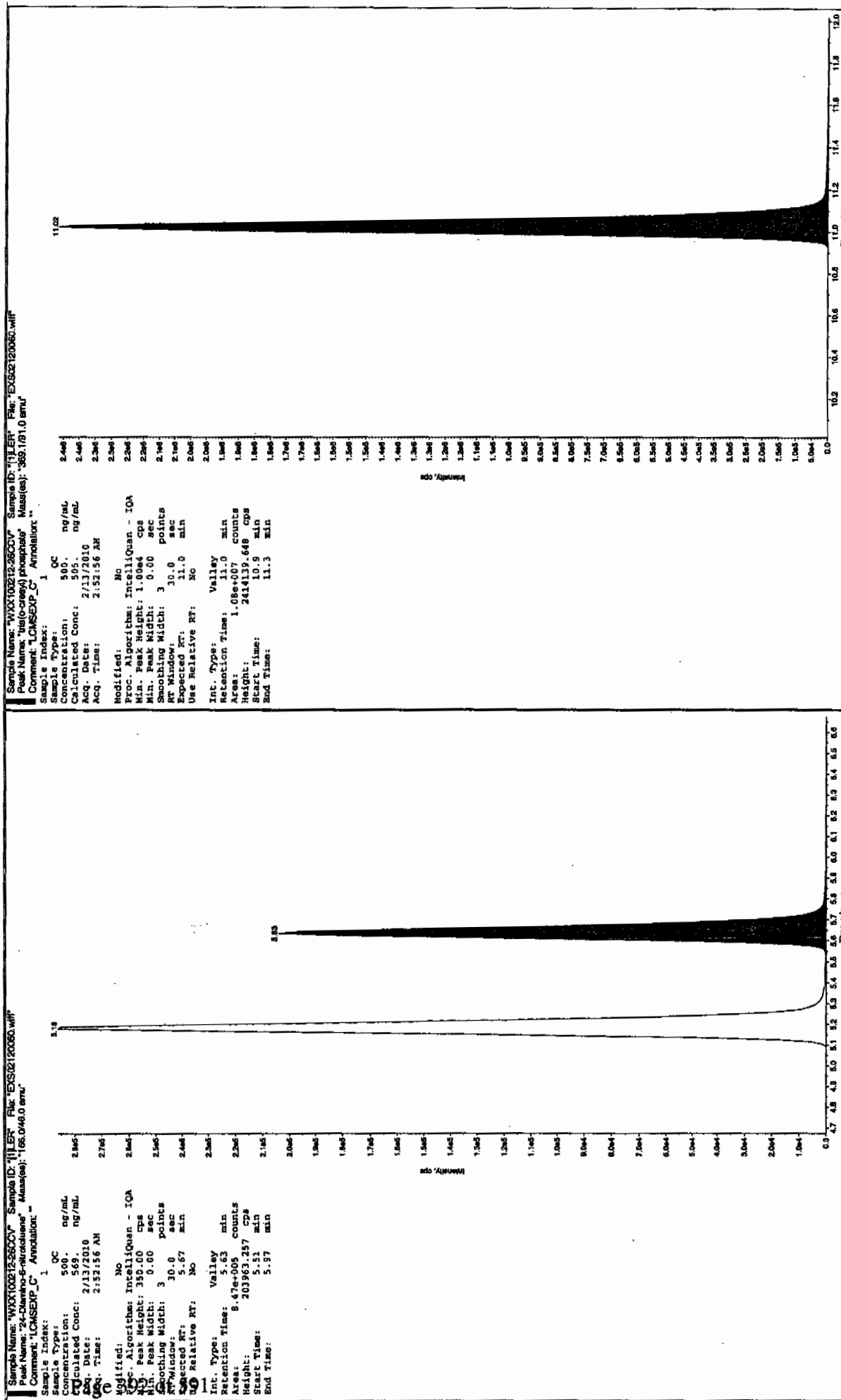
After Jan 2/15/10



after Jan 21/5/10







7B  
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1473

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02120062.wiff

Analysis Date: 13-FEB-10 03:24

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	84.2	84	
2,6-Diamino-4-nitrotoluene	100	91.8	92	
3,4-Dinitrotoluene	50	56.7	113	
3,5-Dinitroaniline	100	112	112	
TATB	100	113	113	
tris(o-cresyl) phosphate	100	98.5	99	

Recovery Limits:

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

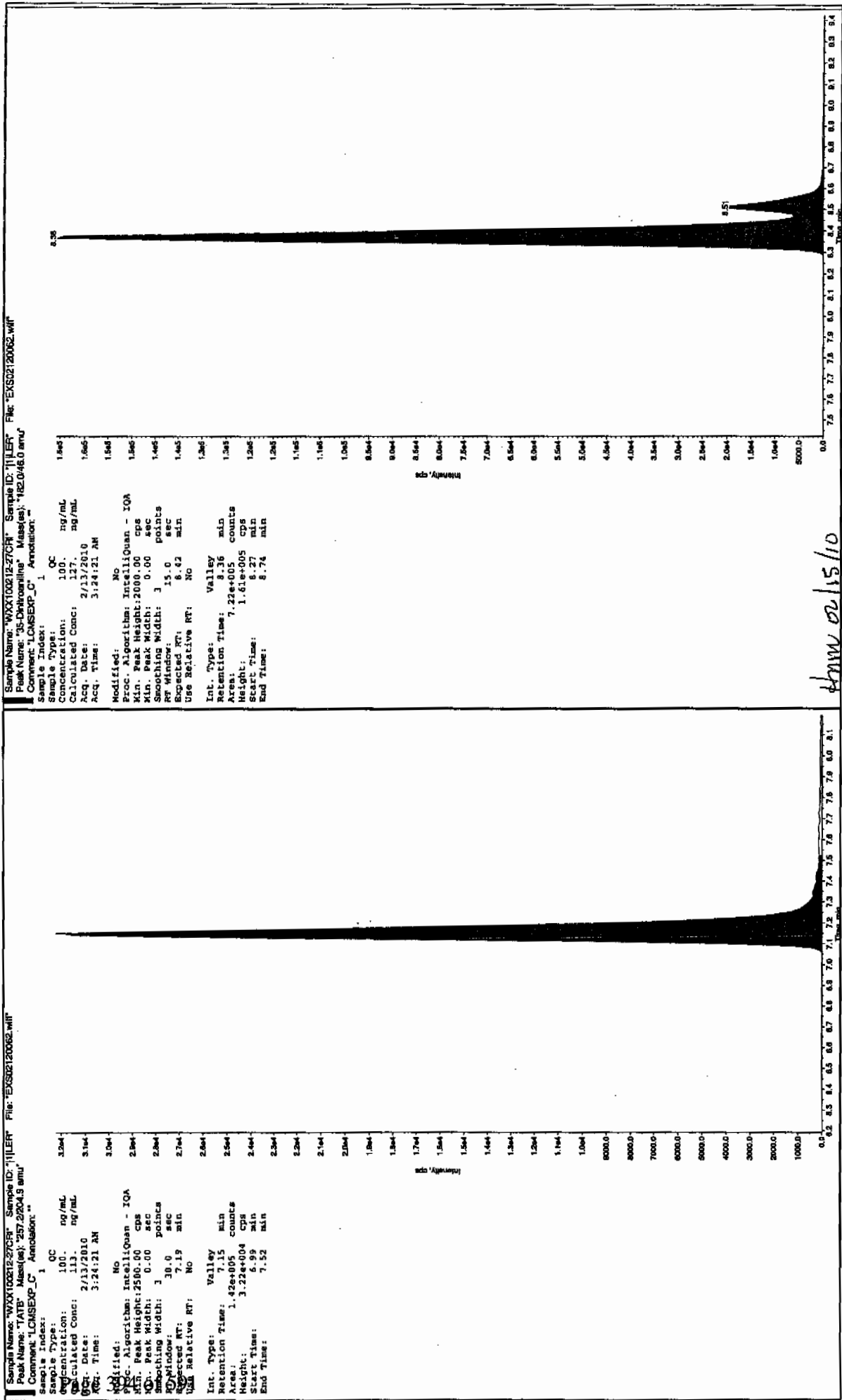
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

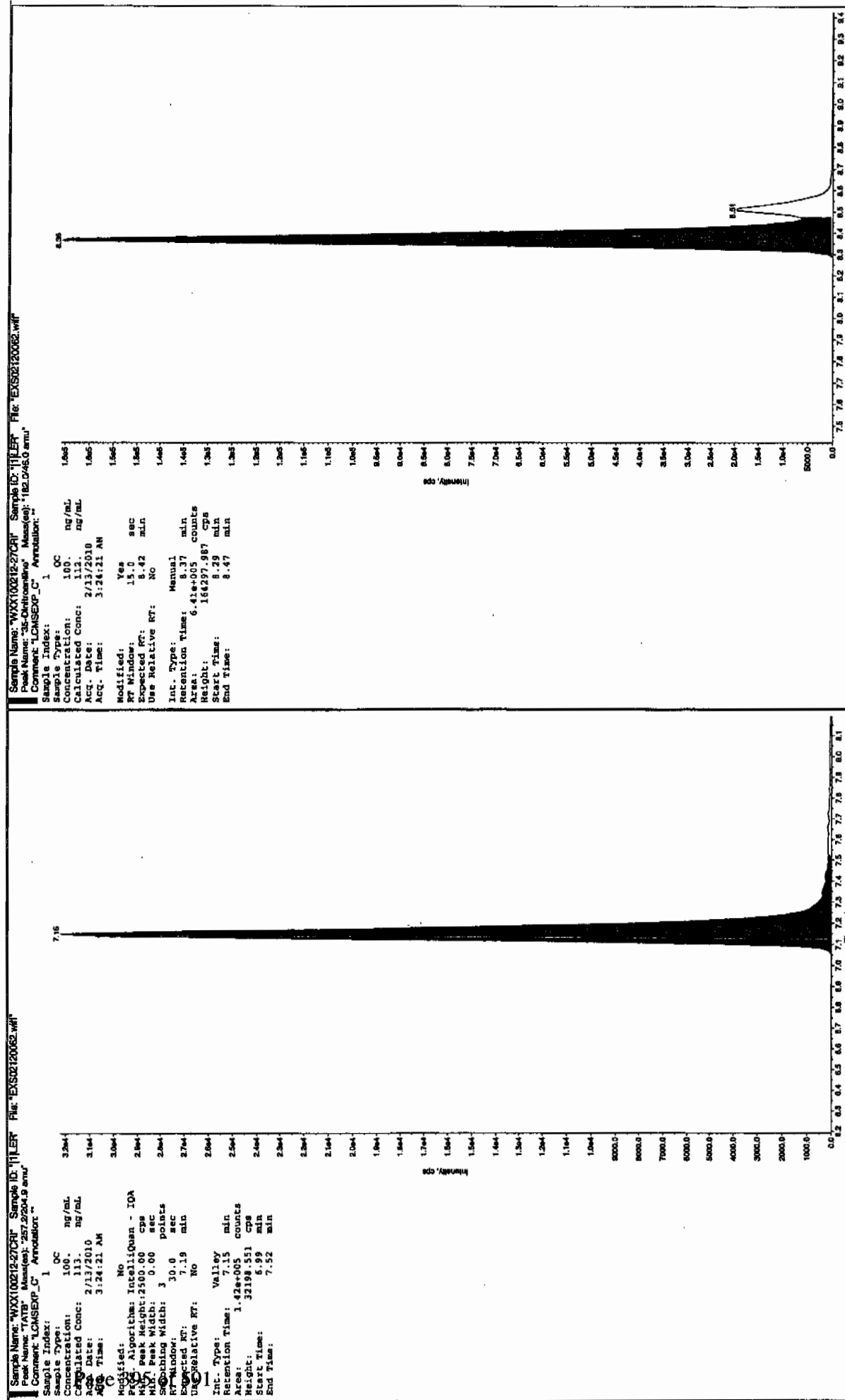
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 21/15/10

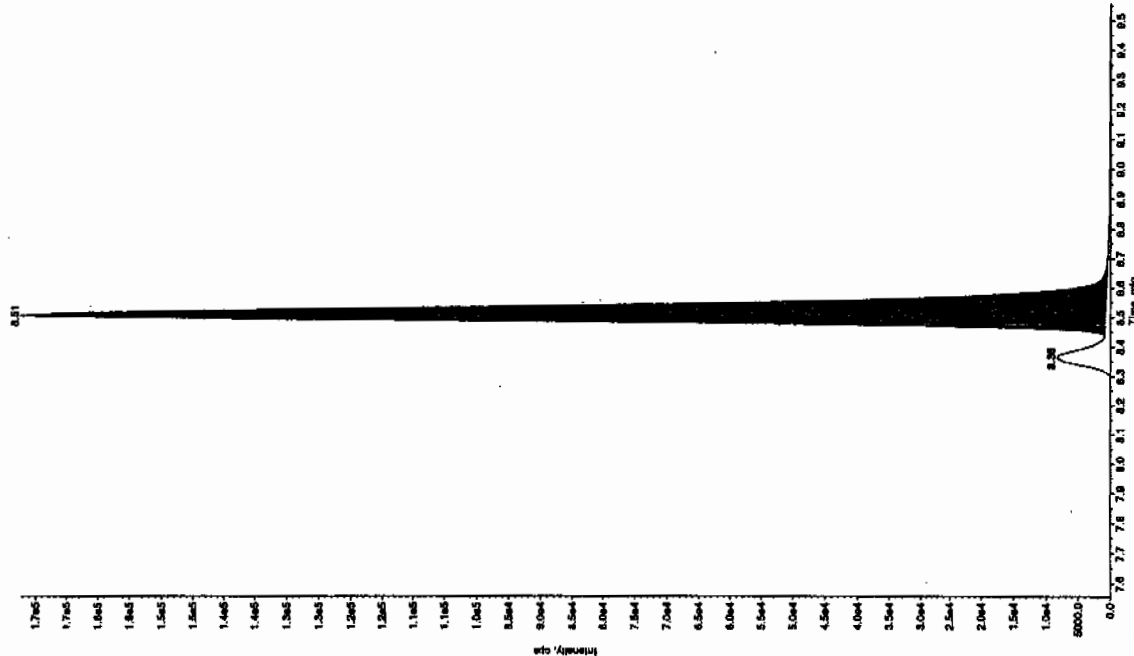


After 02/15/10



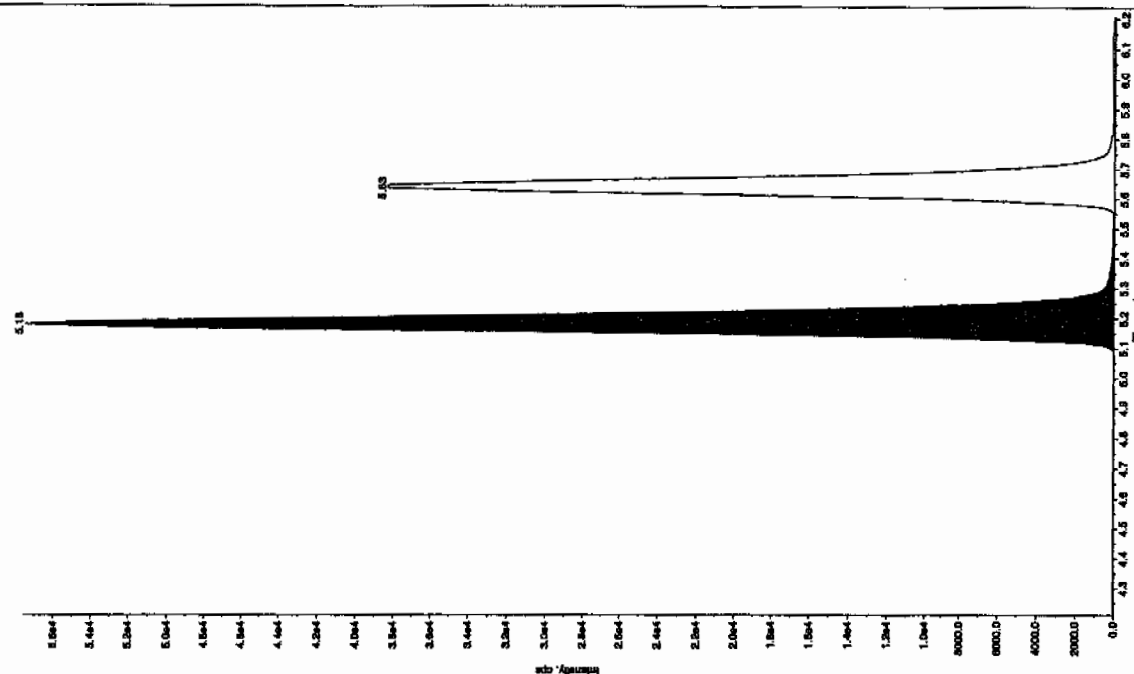
Sample Name: "WXX100212-27CR" Sample ID: "JLIER" File: "EXS02120052.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17/151.9 amu"  
 Comment: "LOMSEXP\_C" Annotation: ""

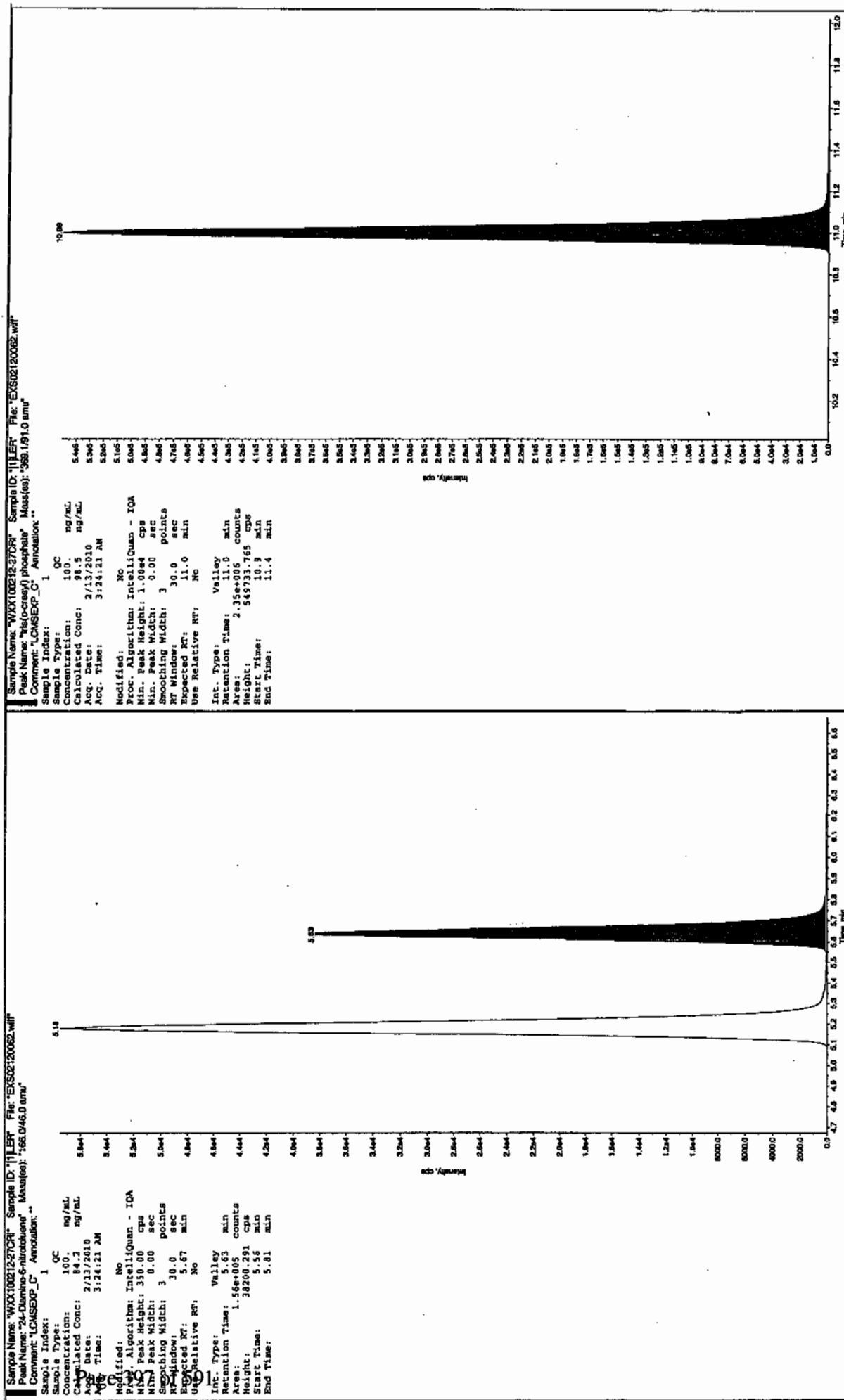
Sample Index: 1  
 Sample Type: QC  
 Concentration: 50.0 ng/mL  
 Calculated Conc: 55.7 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 3:24:21 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.56 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.51 min  
 Area: 6.46e+005 counts  
 Height: 171529.709 cps  
 Start Time: 8.43 min  
 End Time: 8.71 min



Sample Name: "WXX100212-27CR" Sample ID: "JLIER" File: "EXS02120062.wif"  
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "196.04/6.0 amu"  
 Comment: "LOMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 91.8 ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 3:24:21 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 5.21 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.18 min  
 Area: 2.40e+005 counts  
 Height: 57536.930 cps  
 Start Time: 5.08 min  
 End Time: 5.48 min







# QUALITY CONTROL DATA

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 947080

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 1202028676

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208158a

Date Analyzed: 11-FEB-10 19:57

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

Printed: Fri Feb 12 08:13:51 2010, Page 45 of 93

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208158a

Date: 11-Feb-2010

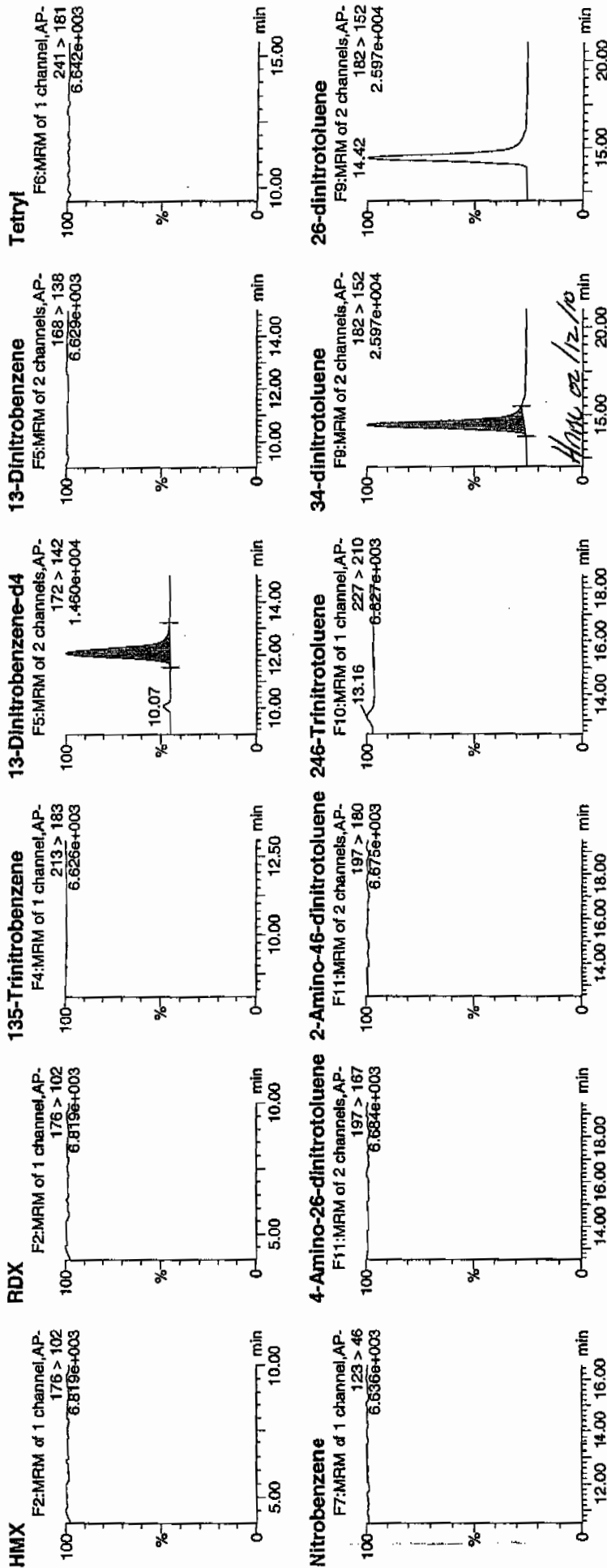
Time: 19:57:57

ID: 1202028676

Vial: 4:1,A

100%  
2/12/10

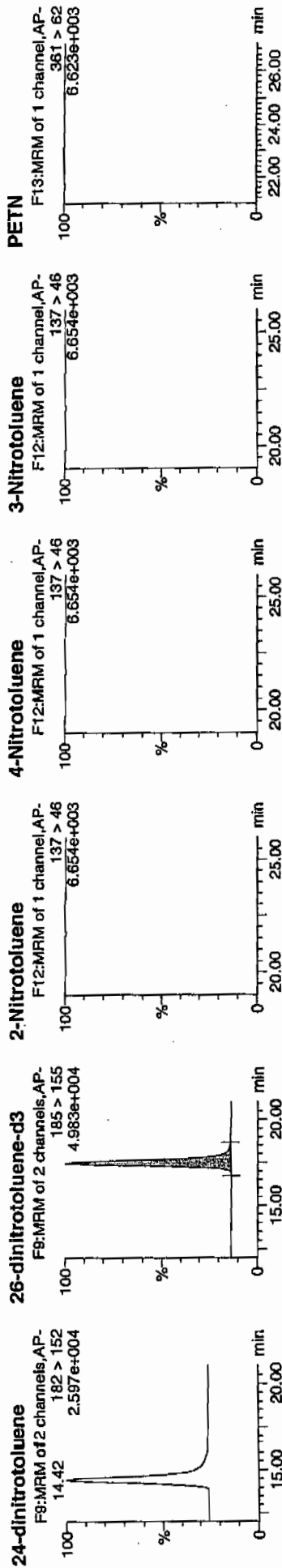
1947084 8022 / NB / 21



Printed: Fri Feb 12 08:13:51 2010, Page 46 of 93

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



ID	Name	Mass	Area	Isotope	Response	Mass	Area	Isotope	Response	Mass	Area	Isotope	Response
1202028676	HMx	176 > 102			3195.324								
1202028676	RDX	176 > 102			3195.324								
1202028676	135-Trinitrobenzene	213 > 183			3195.324								
1202028676	13-Dinitrobenzene-d4	172 > 142	12.07		3195.324								
1202028676	13-Dinitrobenzene	168 > 138			3195.324								
1202028676	Tetryl	241 > 181			3195.324								
1202028676	Nitrobenzene	123 > 46			3195.324								
1202028676	4-Amino-26-dinitrotoluene	197 > 167			17686.594								
1202028676	2-Amino-46-dinitrotoluene	197 > 180			17686.594								
1202028676	246-Trinitrotoluene	227 > 210			17686.594								
1202028676	94-dinitrotoluene	182 > 152	14.42		17686.594								
1202028676	26-dinitrotoluene	182 > 152			17686.594								
1202028676	24-dinitrotoluene	182 > 152			17686.594								
1202028676	26-dinitrotoluene-d3	185 > 155	17.49		17686.594								
1202028676	2-Nitrotoluene	137 > 46			17686.594								
1202028676	4-Nitrotoluene	137 > 46			17686.594								
1202028676	3-Nitrotoluene	137 > 46			17686.594								
1202028676	PETN	361 > 62			17686.594								

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 947080

Lab Code: GEI

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 1202028676

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120039.wiff

Date Analyzed: 12-FEB-10 21:23

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

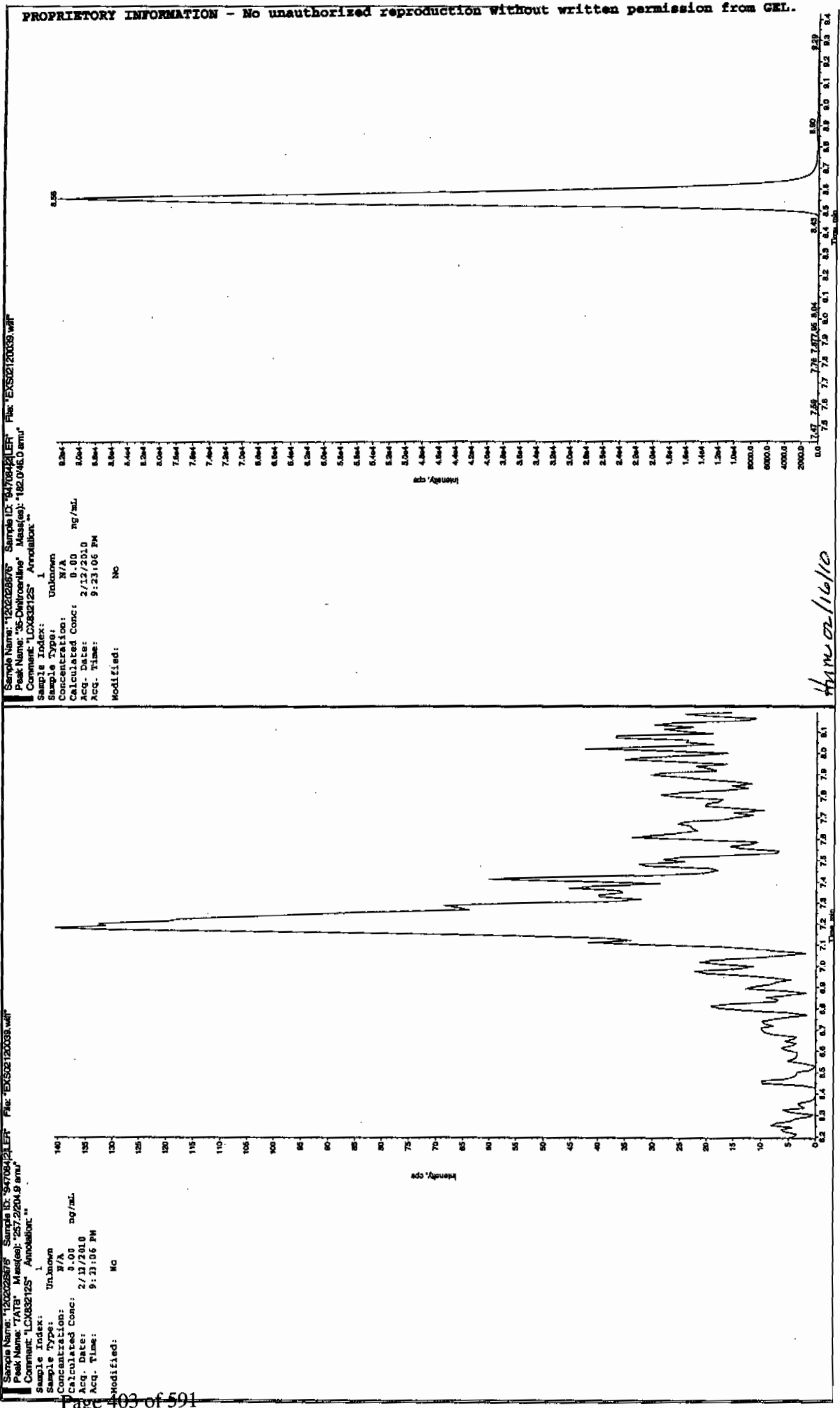
Ken 2/15/10

Sample Name: "1202028576" Sample ID: "9470942121" File: "EX502120038.wif"  
Peak Name: "35-Dinitroresorcinol" Mass(es): "182.0460 amu"  
Comment: "LCX502125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 2/13/2010  
Acq. Time: 9:23:06 PM  
Modified: No

Sample Name: "1202028576" Sample ID: "9470942121" File: "EX502120038.wif"  
Peak Name: "TATB" Mass(es): "257.22049 amu"  
Comment: "LCX502125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 2/13/2010  
Acq. Time: 9:23:06 PM  
Modified: No

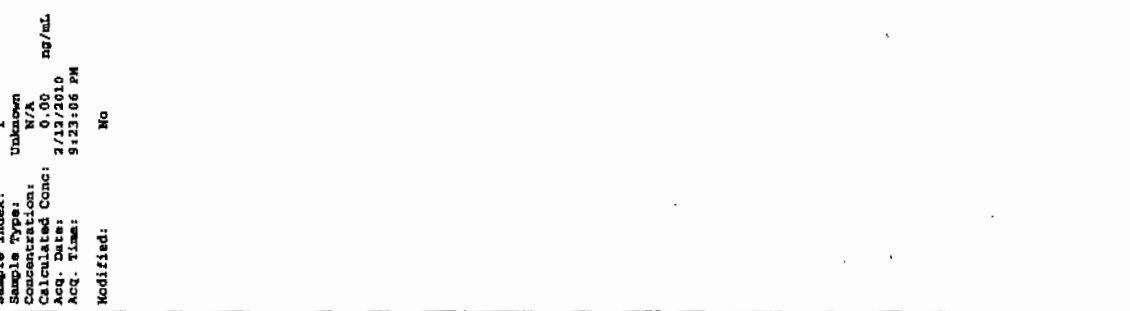


Ken 02/16/10

Sample Name: "1202028576" Sample ID: "9478842LER" File: "EXS02120039.wif"  
 Peak Name: "28-Diamino-4-nitrothiophene" Mass(es): "166.046.0 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 9:23:06 PM  
 Modified: No

Intensity, cps



Sample Name: "94-Dinitrothiophene" Sample ID: "9478842LER" File: "EXS02120039.wif"  
 Peak Name: "94-Dinitrothiophene" Mass(es): "182.1151.9 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 309.1 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 9:23:06 PM  
 Modified: No

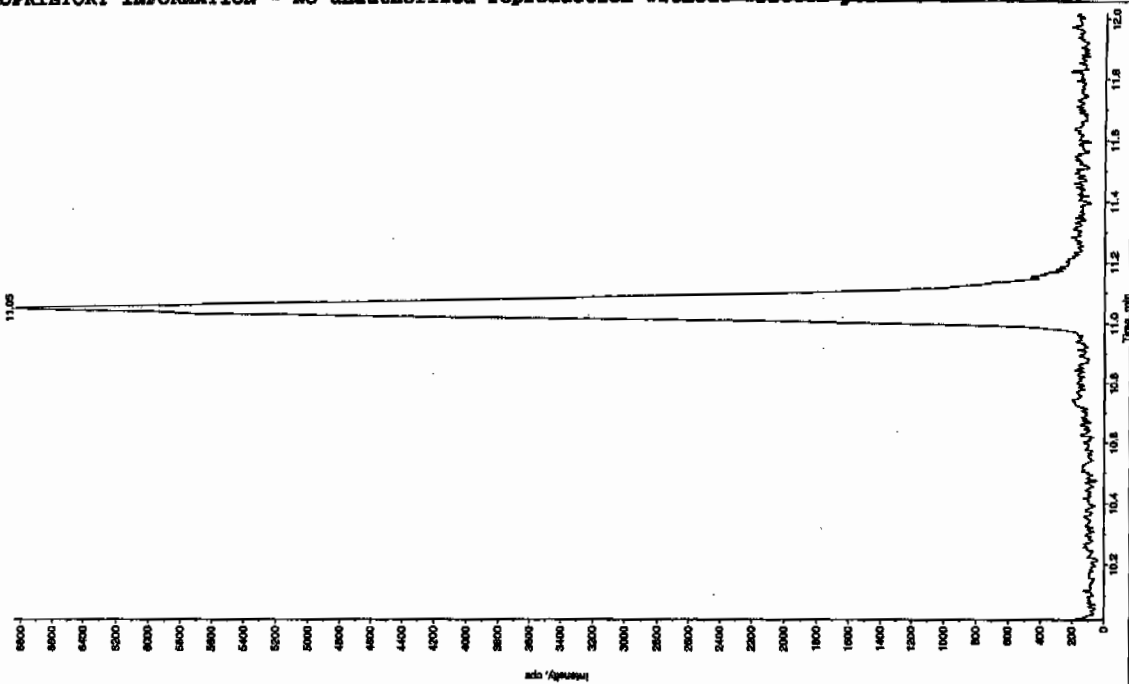
Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 140.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.56 min  
 Observed RT: 8.55 min  
 Int. Type: Valley  
 Retention Time: 8.55 min  
 Area: 1.45e+006 counts  
 Height: 85451.404 cps  
 Start Time: 8.44 min  
 End Time: 8.95 min

Intensity, cps



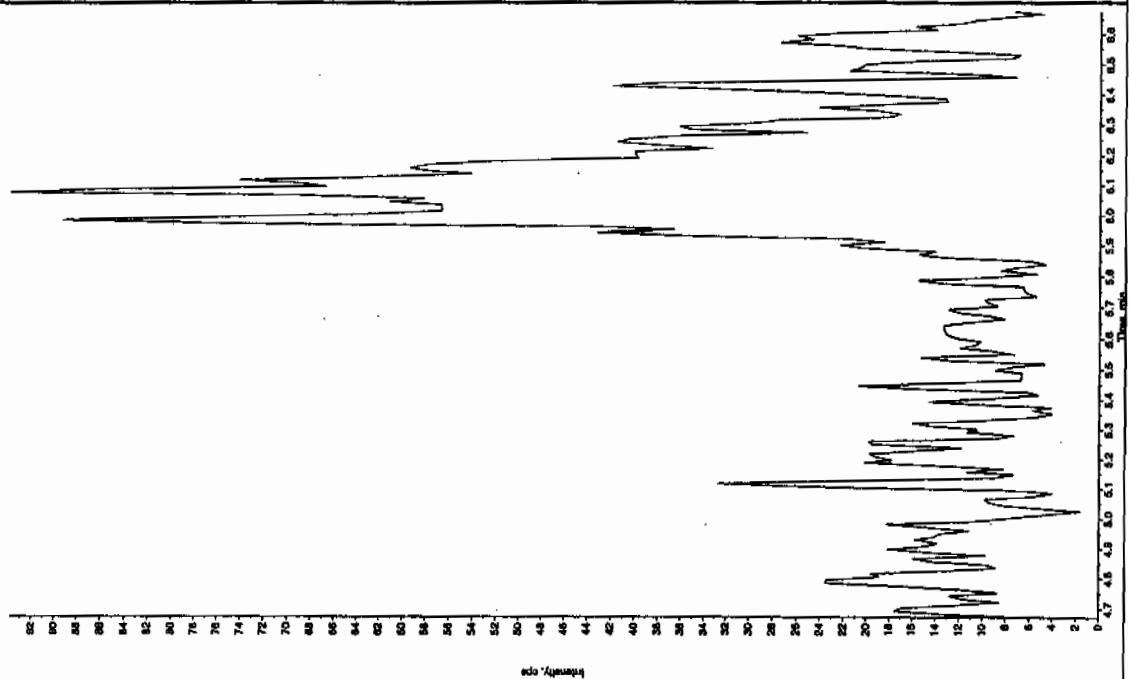
Sample Name: "120028976" Sample ID: "94708421" File: "EXS2120033.wif"  
 Peak Name: "1s(o-cresyl) phosphate" Mass(es): "353.1411.0 amu"  
 Comment: "LCMS32125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.80 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 9:23:06 PM  
 Modified: No



Sample Name: "120028976" Sample ID: "94708421" File: "EXS2120033.wif"  
 Peak Name: "24-Diamino-4-ribitoluene" Mass(es): "166.046.0 amu"  
 Comment: "LCMS32125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.80 ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 9:23:06 PM  
 Modified: No





1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 947080

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 1202028677

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0208159a

Date Analyzed: 11-FEB-10 20:27

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4730	
121-14-2	2,4-Dinitrotoluene	5080	
121-82-4	RDX	4890	
19406-51-0	4-Amino-2,6-dinitrotoluene	4700	
2691-41-0	HMX	4950	
35572-78-2	2-Amino-4,6-dinitrotoluene	4850	
479-45-8	Tetryl	2590	
606-20-2	2,6-Dinitrotoluene	5010	
78-11-5	PETN	5390	
88-72-2	o-Nitrotoluene	4900	
98-95-3	Nitrobenzene	5020	
99-08-1	m-Nitrotoluene	4690	
99-35-4	1,3,5-Trinitrobenzene	4160	
99-65-0	m-Dinitrobenzene	5020	
99-99-0	p-Nitrotoluene	5090	

\*Concentration =

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208159a

Date: 11-Feb-2010

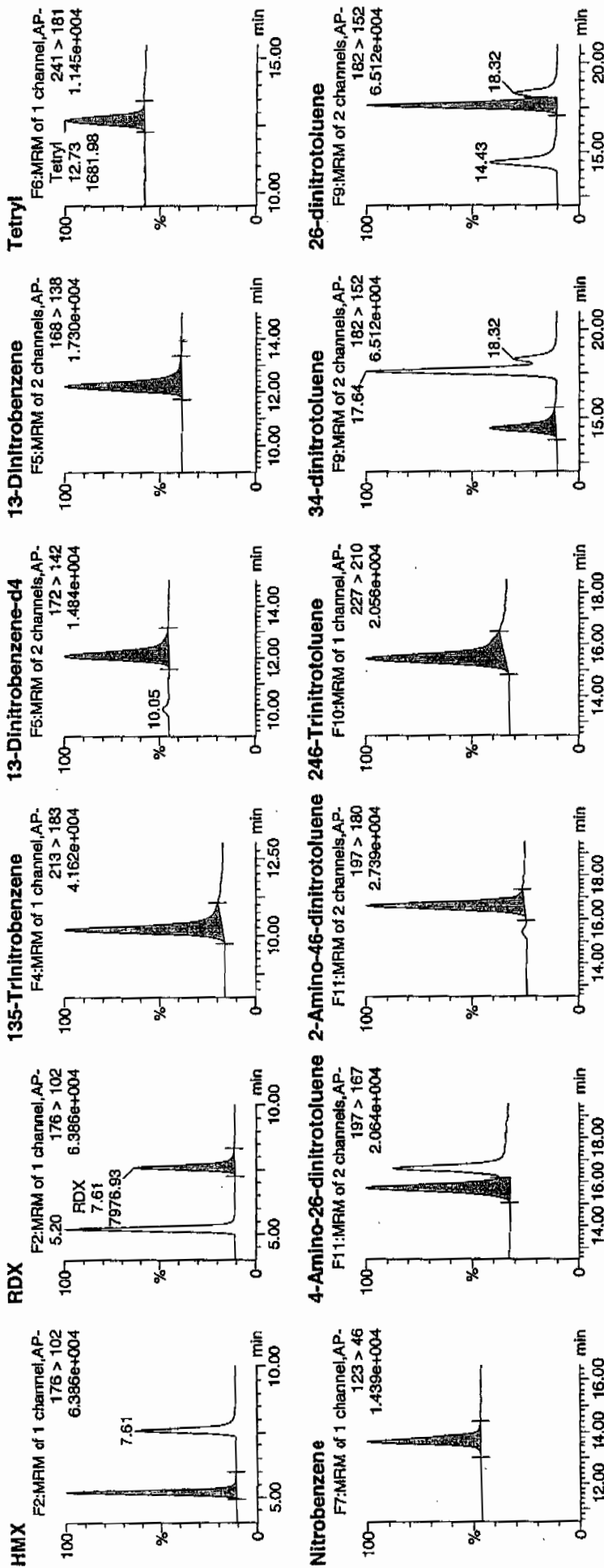
Time: 20:27:32

ID: 1202028577

Vial: 4:1,B

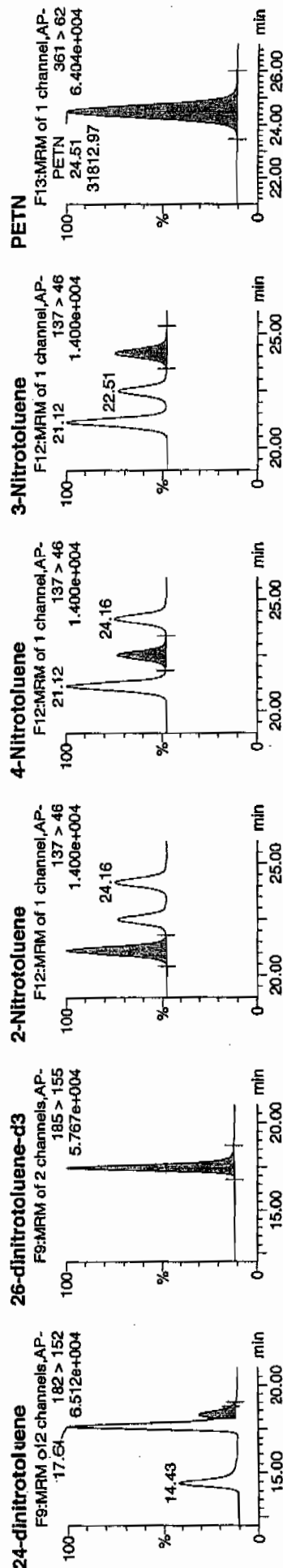
1007  
2/12/10

WAV 947084 | 213 | 21



4/11/10  
02/12/10

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



ID	Name	Mass	Area	Height	Area%	Height%	ModTime	ModDate	ModUser
1202028677	HMx	176 > 102	5.20	11529.899	3355.930	11529.899	1717.840	db	494.6550
1202028677	RDX	176 > 102	7.61	7976.932	3355.930	7976.932	1188.483	bb	489.4617
1202028677	135-Trinitrobenzene	213 > 183	10.21	10279.387	3355.930	10279.387	1531.526	bb	415.8302
1202028677	13-Dinitrobenzene-d4	172 > 142	12.10	3355.930	3355.930	3355.930	604.079	bb	521.9868
1202028677	13-Dinitrobenzene	168 > 138	12.24	4054.494	3355.930	4054.494	250.599	bb	502.3963
1202028677	Tetryl	241 > 181	12.73	1681.983	3355.930	1681.983	2722.223	bb	258.9519
1202028677	Nitrobenzene	123 > 46	13.63	2722.223	3355.930	2722.223	405.584	bb	502.1028
1202028677	4-Amino-26-dinitrotoluene	197 > 167	15.74	5601.931	20751.205	5601.931	134.978	MM	469.9072
1202028677	2-Amino-46-dinitrotoluene	197 > 180	16.63	7977.623	20751.205	7977.623	192.221	bb	485.3687
1202028677	246-Trinitrotoluene	227 > 210	15.45	6331.342	20751.205	6331.342	152.554	bb	472.7951
1202028677	34-dinitrotoluene	182 > 152	14.43	9678.535	20751.205	9678.535	233.204	bb	259.1180
1202028677	26-dinitrotoluene	182 > 152	17.64	22334.057	20751.205	22334.057	538.139	MM	501.0193
1202028677	24-dinitrotoluene	182 > 152	18.32	5148.683	20751.205	5148.683	124.057	MM	508.3248
1202028677	26-dinitrotoluene-d3	185 > 155	17.49	20751.205	20751.205	20751.205	20751.205	bb	562.0683
1202028677	2-Nitrotoluene	137 > 46	21.12	3153.804	20751.205	3153.804	75.991	bb	490.1112
1202028677	4-Nitrotoluene	137 > 46	22.51	1606.286	20751.205	1606.286	38.703	bb	509.2381
1202028677	3-Nitrotoluene	137 > 46	24.16	1815.119	20751.205	1815.119	49.735	bb	489.4073
1202028677	PETN	361 > 62	24.51	31812.975	20751.205	31812.975	766.533	bb	538.7638
									107.8
									7.8
									5934.2

1

# High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 947080

Lab Code: GEL

GEL Job No (SDG) 10-1473

Matrix: SOIL

GEL Sample ID: 1202028677

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947080

Concentrated Extract Volume (mL) 10

Date Extracted: 04-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02120040.wiff

Date Analyzed: 12-FEB-10 21:38

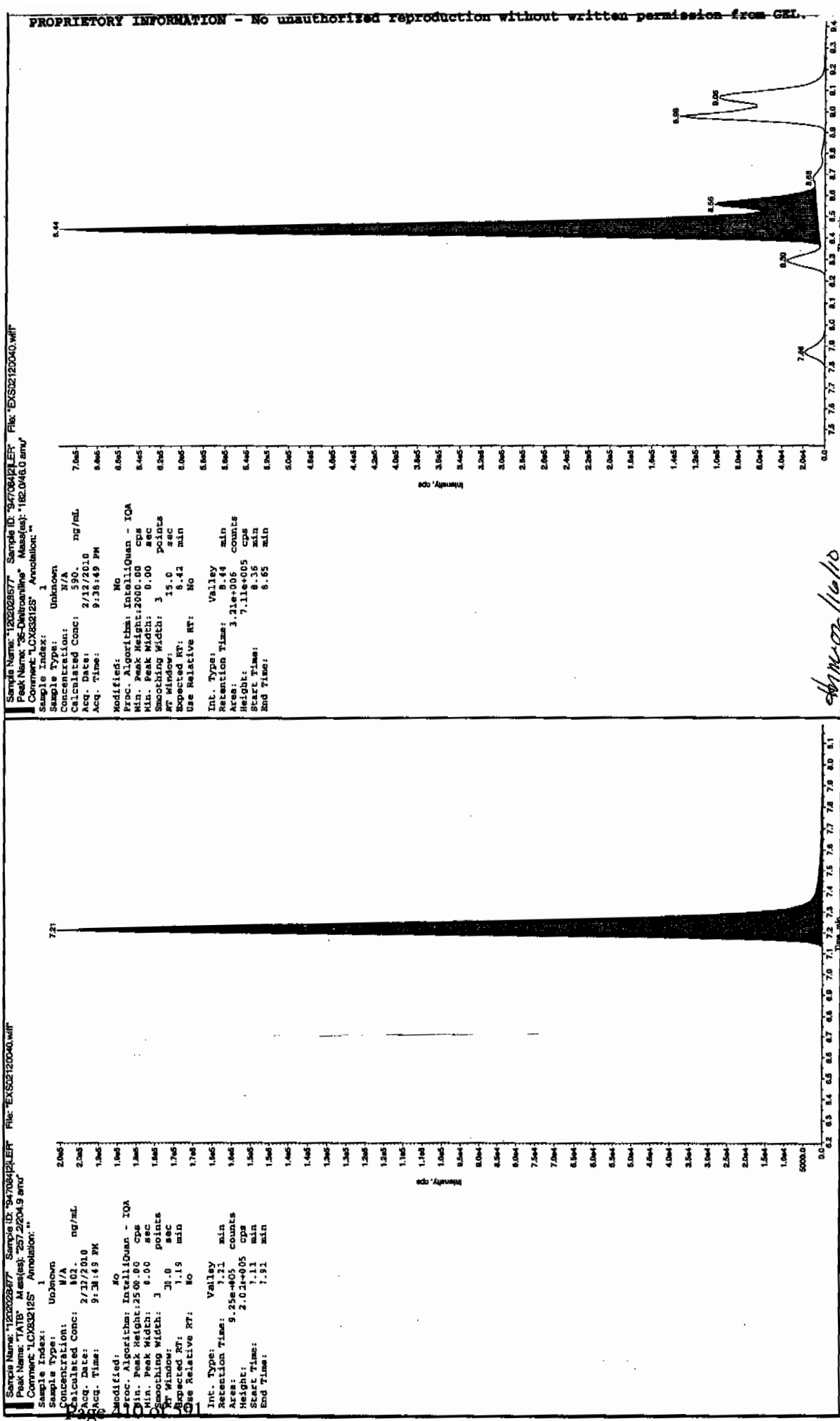
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	8020	
59229-75-3	2,6-Diamino-4-nitrotoluene	5340	
618-87-1	3,5-Dinitroaniline	5310	
6629-29-4	2,4-Diamino-6-nitrotoluene	4730	
78-30-8	tris(o-cresyl) phosphate	5150	

\*Concentration =

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

Before Jan 21/10

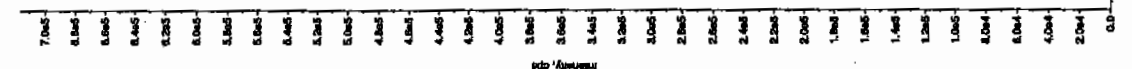


after Jan 21/15/10

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

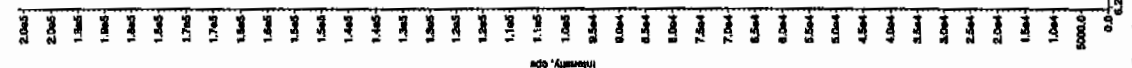
Sample Name: "1202020577" Sample ID: "94709401" File: "EVS02120040.wif"  
Peak Name: "55-Dibenzidine" Mass(es): "152.0480 amu"  
Comment: "LC0302125" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 531 ng/mL  
Acq. Date: 2/12/2010  
Acq. Time: 9:38:49 PM  
Modified: Yes  
RT Window: 15.0 sec  
Expected RT: 8.42 min  
Use Relative RT: No  
Int. Type: Manual  
Retention Time: 8.44 min  
Area: 2.90e+006 counts  
Height: 716335.637 cps  
Start Time: 8.36 min  
End Time: 8.53 min



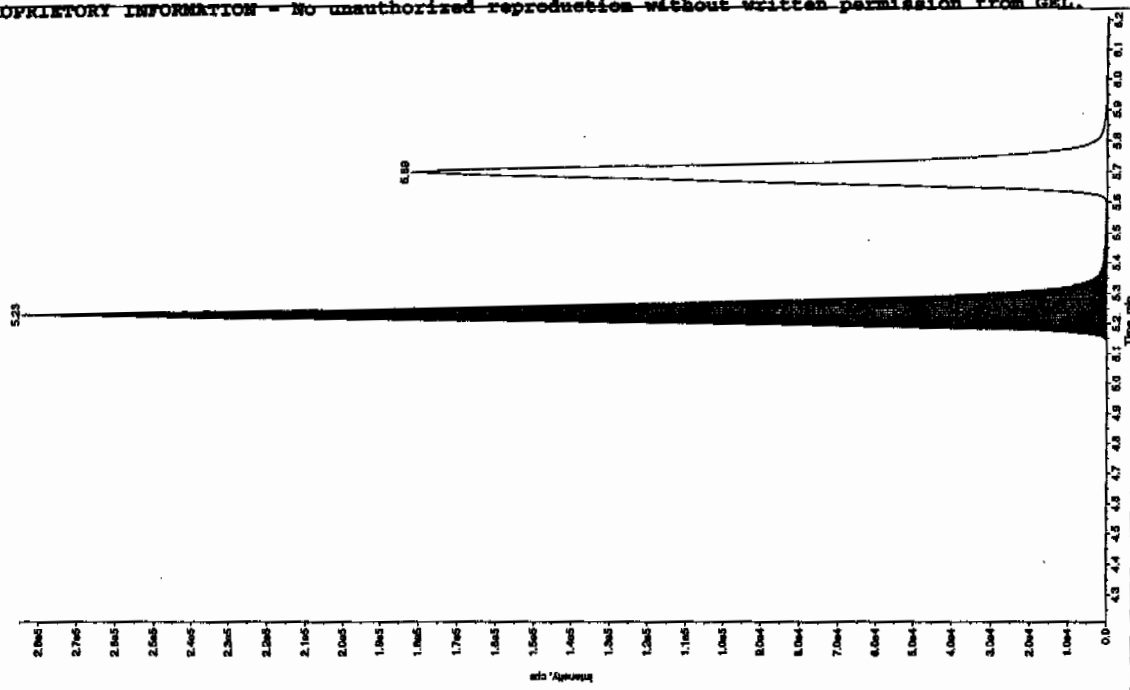
Sample Name: "1202020577" Sample ID: "94709401" File: "EVS02120040.wif"  
Peak Name: "121" Mass(es): "257.20049 amu"  
Comment: "LC0302125" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 102 ng/mL  
Acq. Date: 2/12/2010  
Acq. Time: 9:38:49 PM  
Modified: No  
Proc. Algorithm: InvertQuan - IOA  
Min. Peak Height: 250.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 3.0 sec  
Expected RT: 7.19 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 7.21 min  
Area: 9.25e+005 counts  
Height: 20073.985 cps  
Start Time: 7.12 min  
End Time: 7.31 min



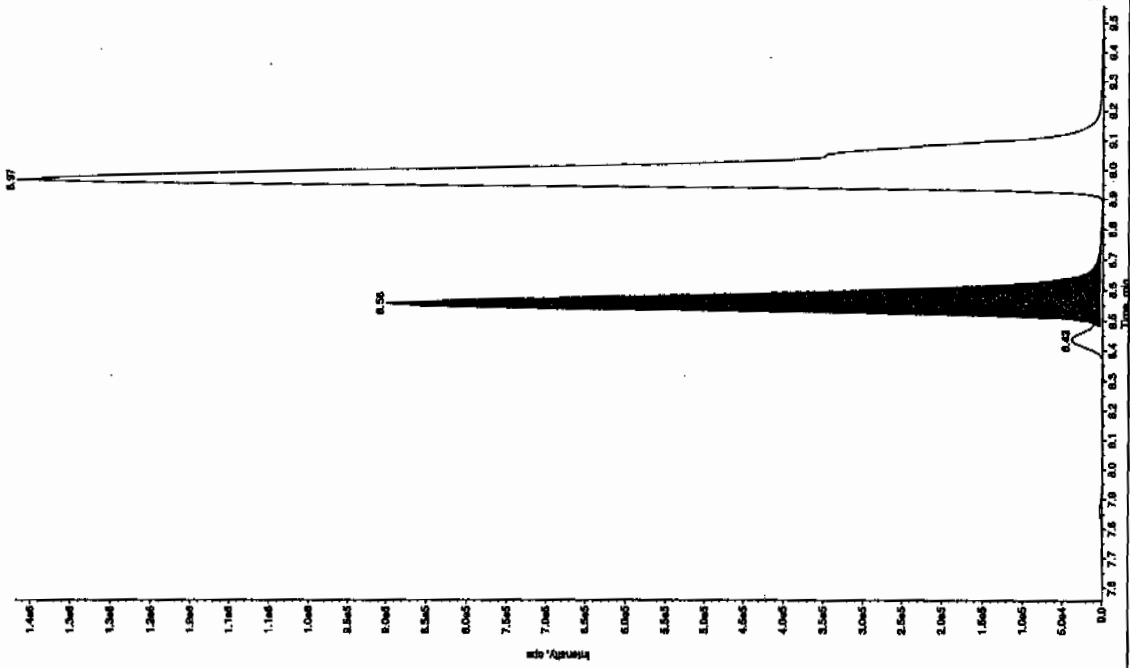
Sample Name: 120208677 Sample ID: 947084121 File: EX502120040.wif  
 Peak Name: 94-Dinitrochlorobenzene Mass(es): 182.046.0 amu  
 Comment: "LCX32125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 334. ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 9:38:49 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 Ac Window: 30.0 sec  
 Expected RT: 5.21 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.23 min  
 Area: 1.10e+006 counts  
 Height: 284974.335 cps  
 Start Time: 5.12 min  
 End Time: 5.33 min



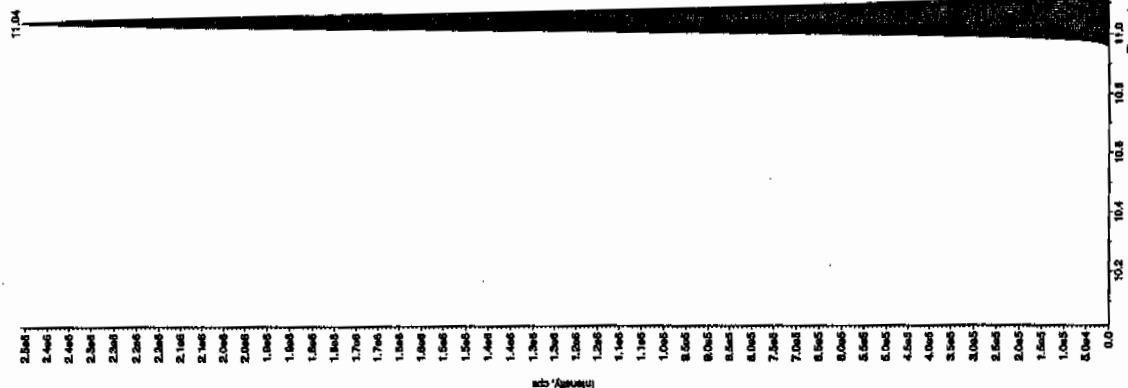
Sample Name: 120208677 Sample ID: 947084121 File: EX502120040.wif  
 Peak Name: 94-Dinitrochlorobenzene Mass(es): 182.046.0 amu  
 Comment: "LCX32125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 115. ng/mL  
 Acq. Date: 2/13/2010  
 Acq. Time: 9:38:49 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 146.00 cps  
 Min. Peak Width: 1.00 sec  
 Smoothing Width: 3 points  
 Ac Window: 30.0 sec  
 Expected RT: 1.56 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 1.56 min  
 Area: 3.52e+006 counts  
 Height: 897207.285 cps  
 Start Time: 1.48 min  
 End Time: 1.74 min



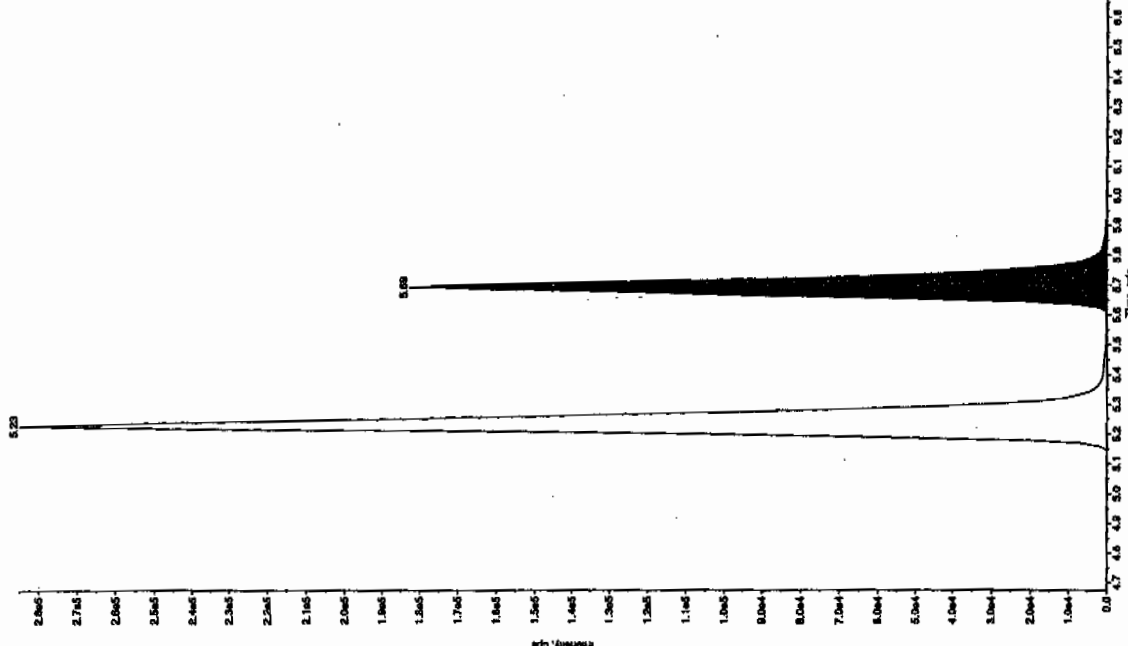
Sample Name: "120202567" Sample ID: "94705421ER" File: "EX02120040.wif"  
 Peak Name: "bis(o-cresyl) phosphine" Mass(es): "369.191.0 amu"  
 Comment: "LCX032125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 515. ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 9:38:49 PM  
 Modified: No  
 Proc. Algorithm: InelliQuan - IQA  
 Min. Peak Height: 1.00e4 cps  
 Min. Peak Width: 3.00 sec  
 Smoothing Width: 30.0 points  
 RT Window: 11.0 min  
 Expected RT: 11.0 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 11.0 min  
 Area: 1.10e+007 counts  
 Height: 2459059.326 cps  
 Start Time: 10.9 min  
 End Time: 11.4 min



Sample Name: "120202567" Sample ID: "94705421ER" File: "EX02120040.wif"  
 Peak Name: "24-Diamino-6-nitrophenol" Mass(es): "166.046.0 amu"  
 Comment: "LCX032125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 473. ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 9:38:49 PM  
 Modified: No  
 Proc. Algorithm: InelliQuan - IQA  
 Min. Peak Height: 39.00 cps  
 Min. Peak Width: 3.00 sec  
 Smoothing Width: 30.0 points  
 RT Window: 5.0 min  
 Expected RT: 5.67 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.69 min  
 Area: 7.13e+005 counts  
 Height: 182431.514 cps  
 Start Time: 5.60 min  
 End Time: 5.92 min





# MISCELLANEOUS DATA

# Prep Logbook

## Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 947080 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)
1202028676 MB	04-FEB-2010 13:04:00	2	10	5
1202028677 LCS	04-FEB-2010 13:04:00	2	10	5
245663001	04-FEB-2010 13:04:00	2	10	5
1202028678 MS (245663001)	04-FEB-2010 13:04:00	2	10	5
1202028679 MSD (245663001)	04-FEB-2010 13:04:00	2	10	5
245663002	04-FEB-2010 13:04:00	2	10	5
245663003	04-FEB-2010 13:04:00	2	10	5
245663004	04-FEB-2010 13:04:00	2	10	5
245663005	04-FEB-2010 13:04:00	2	10	5
245663006	04-FEB-2010 13:04:00	2	10	5
245803001	04-FEB-2010 13:04:00	2	10	5
245803002	04-FEB-2010 13:04:00	2	10	5
245803003	04-FEB-2010 13:04:00	2	10	5
245803004	04-FEB-2010 13:04:00	2	10	5
245803005	04-FEB-2010 13:04:00	2	10	5
245803006	04-FEB-2010 13:04:00	2	10	5
245803007	04-FEB-2010 13:04:00	2	10	5
245803008	04-FEB-2010 13:04:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202028677	8321 Explosives LCS	DX100125-03	.1	mL	Final Solvent: ACN
LCS	1202028677	8321 LANL Explosives Mix 10mg/L	UXX100122-01.1	1	mL	
MS	1202028678	8321 Explosives LCS	DX100125-03	.1	mL	
MS	1202028678	8321 LANL Explosives Mix 10mg/L	UXX100122-01.1	1	mL	
MSD	1202028679	8321 Explosives LCS	DX100125-03	.1	mL	
MSD	1202028679	8321 LANL Explosives Mix 10mg/L	UXX100122-01.1	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Surrogate) 100ppm	DX100125-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS #1

Date: 02/08/10  
 Extr. Injection Volume: 50ul  
 Sequence Number: 020810expA  
 Initial Calibration Date: 02/08/10  
 Method: SW846 8321A-Modified  
 Int. Std.: UXX100128-01.1  
 Mobile Phase Lot#: 1265885, 1250738  
 Standard-Samp Reagent Lot#: 1260901, 1246195

Reviewed BY: *John*  
 Date: 02/12/10

SOP: GL-OA-E-056 Rev.12  
 Alt Check Std. ID: WXX100208-07 &  
 WXX100211-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0208001a	XIBLK01	MAP	2/8/10 14:44			1		USE	B
EXP0208002a	XIBLK01	MAP	2/8/10 15:13			1		USE	B
EXP0208003a	WXXICAL-01	MAP	2/8/10 15:43			1		USE	I
EXP0208004a	WXXICAL-02	MAP	2/8/10 16:12			1		USE	I
EXP0208005a	WXXICAL-03	MAP	2/8/10 16:42			1		USE	I
EXP0208006a	WXXICAL-04	MAP	2/8/10 17:11			1		USE	I
EXP0208007a	WXXICAL-05	MAP	2/8/10 17:41			1		USE	I
EXP0208008a	WXXICAL-06	MAP	2/8/10 18:11			1		USE	I
EXP0208009a	XIBLK02	MAP	2/8/10 18:40			1		USE	B
EXP0208010a	WXXICV	MAP	2/8/10 19:10			1		USE	C
EXP0208011a	XIBLK03	MAP	2/8/10 19:39			1		USE	B
EXP0208012a	WXXCRI	MAP	2/8/10 20:09			1		USE	C
EXP0208013a	1202021906	MAP	2/8/10 20:38	944246	10-1304	2	LANL	DUSE-RA	S
EXP0208014a	1202021907	MAP	2/8/10 21:08	944246	10-1304	2	LANL	DUSE-RA	S
EXP0208015a	245106001	MAP	2/8/10 21:37	944246	10-1304	2	LANL	USE	S
EXP0208016a	1202021908	MAP	2/8/10 22:07	944246	10-1304	2	LANL	USE	S
EXP0208017a	1202021909	MAP	2/8/10 22:36	944246	10-1304	2	LANL	USE	S
EXP0208018a	245106002	MAP	2/8/10 23:05	944246	10-1304	2	LANL	USE	S
EXP0208019a	245106003	MAP	2/8/10 23:35	944246	10-1304	2	LANL	USE	S
EXP0208020a	245106004	MAP	2/9/10 0:04	944246	10-1304	2	LANL	USE	S
EXP0208021a	245106005	MAP	2/9/10 0:34	944246	10-1304	2	LANL	USE	S
EXP0208022a	245106006	MAP	2/9/10 1:03	944246	10-1304	2	LANL	USE	S
EXP0208023a	WXXCCV	MAP	2/9/10 1:33			1		USE	C
EXP0208024a	XIBLK04	MAP	2/9/10 2:02			1		USE	B
EXP0208025a	WXXCRI	MAP	2/9/10 2:32			1		USE	C
EXP0208026a	245106007	MAP	2/9/10 3:01	944246	10-1304	2	LANL	USE	S
EXP0208027a	245106008	MAP	2/9/10 3:31	944246	10-1304	2	LANL	USE	S
EXP0208028a	245106009	MAP	2/9/10 4:00	944246	10-1304	2	LANL	USE	S
EXP0208029a	245106010	MAP	2/9/10 4:30	944246	10-1304	2	LANL	USE	S

EXP0208030a	245106011	MAP	2/9/10 4:59	944246	10-1304	2	LANL	USE	S
EXP0208031a	245106012	MAP	2/9/10 5:29	944246	10-1304	2	LANL	USE	S
EXP0208032a	245106013	MAP	2/9/10 5:58	944246	10-1304	2	LANL	USE	S
EXP0208033a	245106014	MAP	2/9/10 6:28	944246	10-1304	2	LANL	USE	S
EXP0208034a	245106015	MAP	2/9/10 6:58	944246	10-1304	2	LANL	USE	S
EXP0208035a	245106016	MAP	2/9/10 7:27	944246	10-1304	2	LANL	USE	S
EXP0208036a	WXXCCV	MAP	2/9/10 7:57			1		USE	C
EXP0208037a	XIBLK05	MAP	2/9/10 8:26			1		USE	B
EXP0208038a	WXXCRI	MAP	2/9/10 8:56			1		USE	C
EXP0208039a	1202021914	MAP	2/9/10 9:25	944250	10-1324	2	LANL	USE	S
EXP0208040a	1202021915	MAP	2/9/10 9:55	944250	10-1324	2	LANL	USE	S
EXP0208041a	245114002	MAP	2/9/10 10:24	944250	10-1324	2	LANL	USE	S
EXP0208042a	1202021916	MAP	2/9/10 10:54	944250	10-1324	2	LANL	USE	S
EXP0208043a	1202021917	MAP	2/9/10 11:23	944250	10-1324	2	LANL	USE	S
EXP0208044a	245114003	MAP	2/9/10 11:53	944250	10-1324	2	LANL	USE	S
EXP0208045a	245114004	MAP	2/9/10 12:22	944250	10-1324	2	LANL	USE	S
EXP0208046a	245114005	MAP	2/9/10 12:52	944250	10-1324	2	LANL	USE	S
EXP0208047a	245114006	MAP	2/9/10 13:21	944250	10-1324	2	LANL	USE	S
EXP0208048a	245114007	MAP	2/9/10 13:51	944250	10-1324	2	LANL	USE	S
EXP0208049a	WXXCCV	MAP	2/9/10 14:20			1		USE	C
EXP0208050a	XIBLK06	MAP	2/9/10 14:50			1		USE	B
EXP0208051a	WXXCRI	MAP	2/9/10 15:19			1		USE	C
EXP0208052a	245114008	MAP	2/9/10 15:49	944250	10-1324	2	LANL	USE	S
EXP0208053a	245114009	MAP	2/9/10 16:18	944250	10-1324	2	LANL	USE	S
EXP0208054a	245114010	MAP	2/9/10 16:48	944250	10-1324	2	LANL	USE	S
EXP0208055a	245114011	MAP	2/9/10 17:17	944250	10-1324	2	LANL	USE	S
EXP0208056a	245114012	MAP	2/9/10 17:47	944250	10-1324	2	LANL	USE	S
EXP0208057a	245114013	MAP	2/9/10 18:16	944250	10-1324	2	LANL	USE	S
EXP0208058a	245114014	MAP	2/9/10 18:46	944250	10-1324	2	LANL	USE	S
EXP0208059a	245114015	MAP	2/9/10 19:15	944250	10-1324	2	LANL	USE	S
EXP0208060a	1202021906	MAP	2/9/10 19:45	944246	10-1304	2	LANL	USE	S
EXP0208061a	1202021907	MAP	2/9/10 20:14	944246	10-1304	2	LANL	USE	S
EXP0208062a	WXXCCV	MAP	2/9/10 20:44			1		USE	C
EXP0208063a	XIBLK07	MAP	2/9/10 21:13			1		USE	B
EXP0208064a	WXXCRI	MAP	2/9/10 21:43			1		USE	C
EXP0208065a	1202023096	MAP	2/9/10 22:12	944718	Various	2	LANL	USE	S
EXP0208066a	1202023097	MAP	2/9/10 22:42	944718	Various	2	LANL	USE	S

EXP0208067a	245116001	MAP	2/9/10 23:12	944718	10-1327	2	LANL	USE	S
EXP0208068a	1202023098	MAP	2/9/10 23:41	944718	10-1327	2	LANL	USE	S
EXP0208069a	1202023099	MAP	2/10/10 0:10	944718	10-1327	2	LANL	USE	S
EXP0208070a	245116002	MAP	2/10/10 0:40	944718	10-1327	2	LANL	DUSE-RA	S
EXP0208071a	245116003	MAP	2/10/10 1:09	944718	10-1327	2	LANL	USE	S
EXP0208072a	245116004	MAP	2/10/10 1:39	944718	10-1327	2	LANL	USE	S
EXP0208073a	245116005	MAP	2/10/10 2:08	944718	10-1327	2	LANL	DUSE-RA	S
EXP0208074a	245116006	MAP	2/10/10 2:38	944718	10-1327	2	LANL	USE	S
EXP0208075a	WXXCCV	MAP	2/10/10 3:07			1		USE	C
EXP0208076a	XIBLK08	MAP	2/10/10 3:37			1		USE	B
EXP0208077a	WXXCRI	MAP	2/10/10 4:06			1		USE	C
EXP0208078a	245116007	MAP	2/10/10 4:36	944718	10-1327	2	LANL	USE	S
EXP0208079a	245116008	MAP	2/10/10 5:06	944718	10-1327	2	LANL	USE	S
EXP0208080a	245116009	MAP	2/10/10 5:35	944718	10-1327	2	LANL	USE	S
EXP0208081a	245116010	MAP	2/10/10 6:04	944718	10-1327	2	LANL	USE	S
EXP0208082a	245116011	MAP	2/10/10 6:34	944718	10-1327	2	LANL	USE	S
EXP0208083a	245116012	MAP	2/10/10 7:03	944718	10-1327	2	LANL	USE	S
EXP0208084a	245116013	MAP	2/10/10 7:33	944718	10-1327	2	LANL	USE	S
EXP0208085a	245116014	MAP	2/10/10 8:02	944718	10-1327	2	LANL	USE	S
EXP0208086a	245116015	MAP	2/10/10 8:32	944718	10-1327	2	LANL	USE	S
EXP0208087a	245116016	MAP	2/10/10 9:01	944718	10-1327	2	LANL	USE	S
EXP0208088a	WXXCCV	MAP	2/10/10 9:31			1		USE	C
EXP0208089a	XIBLK09	MAP	2/10/10 10:01			1		USE	B
EXP0208090a	WXXCRI	MAP	2/10/10 10:30			1		USE	C
EXP0208091a	245226001	MAP	2/10/10 11:00	944718	10-1342	250	LANL	USE	S
EXP0208092a	245226001	MAP	2/10/10 11:29	944718	10-1342	2	LANL	USE	S
EXP0208093a	XIBLK10	MAP	2/10/10 11:59			1		USE	B
EXP0208094a	245226003	MAP	2/10/10 12:28	944718	10-1342	250	LANL	DUSE	S
EXP0208095a	245226003	MAP	2/10/10 12:58	944718	10-1342	2	LANL	USE	S
EXP0208096a	XIBLK11	MAP	2/10/10 13:28			1		USE	B
EXP0208097a	245116002	MAP	2/10/10 13:57	944718	10-1327	2	LANL	USE	S
EXP0208098a	245116005	MAP	2/10/10 14:27	944718	10-1327	2	LANL	USE	S
EXP0208099a	245226003	MAP	2/10/10 14:56	944718	10-1342	500	LANL	USE	S
EXP0208100a	WXXCCV	MAP	2/10/10 15:26			1		USE	C
EXP0208101a	XIBLK12	MAP	2/10/10 15:55			1		USE	B
EXP0208102a	WXXCRI	MAP	2/10/10 16:25			1		USE	C
EXP0208103a	1202027262	MAP	2/10/10 16:54	946483	10-1408	2	LANL	USE	S

EXP0208104a	1202027263	MAP	2/10/10 17:24	946483	10-1408	2	LANL	USE	S
EXP0208105a	245597002	MAP	2/10/10 17:53	946483	10-1408	2	LANL	USE	S
EXP0208106a	1202027264	MAP	2/10/10 18:23	946483	10-1408	2	LANL	USE	S
EXP0208107a	1202027265	MAP	2/10/10 18:52	946483	10-1408	2	LANL	USE	S
EXP0208108a	245597003	MAP	2/10/10 19:22	946483	10-1408	2	LANL	USE	S
EXP0208109a	245597004	MAP	2/10/10 19:51	946483	10-1408	2	LANL	USE	S
EXP0208110a	245597005	MAP	2/10/10 20:21	946483	10-1408	2	LANL	USE	S
EXP0208111a	245597006	MAP	2/10/10 20:50	946483	10-1408	2	LANL	USE	S
EXP0208112a	245597007	MAP	2/10/10 21:20	946483	10-1408	2	LANL	USE	S
EXP0208113a	WXXCCV	MAP	2/10/10 21:49			1		USE	C
EXP0208114a	XIBLK13	MAP	2/10/10 22:19			1		USE	B
EXP0208115a	WXXCRI	MAP	2/10/10 22:48			1		USE	C
EXP0208116a	245597008	MAP	2/10/10 23:18	946483	10-1408	2	LANL	USE	S
EXP0208117a	245597009	MAP	2/10/10 23:47	946483	10-1408	2	LANL	USE	S
EXP0208118a	245597010	MAP	2/11/10 0:17	946483	10-1408	2	LANL	USE	S
EXP0208119a	245597011	MAP	2/11/10 0:46	946483	10-1408	2	LANL	USE	S
EXP0208120a	WXXCCV	MAP	2/11/10 1:16			1		USE	C
EXP0208121a	XIBLK14	MAP	2/11/10 1:45			1		USE	B
EXP0208122a	WXXCRI	MAP	2/11/10 2:15			1		USE	C
EXP0208123a	1202027274	MAP	2/11/10 2:44	946488	Various	2	LANL	USE	S
EXP0208124a	1202027275	MAP	2/11/10 3:14	946488	Various	2	LANL	DUSE-RA	S
EXP0208125a	245621002	MAP	2/11/10 3:43	946488	10-1424	2	LANL	DUSE-RA	S
EXP0208126a	1202027276	MAP	2/11/10 4:13	946488	10-1424	2	LANL	DUSE-RA	S
EXP0208127a	1202027277	MAP	2/11/10 4:42	946488	10-1424	2	LANL	USE	S
EXP0208128a	245621003	MAP	2/11/10 5:12	946488	10-1424	2	LANL	USE	S
EXP0208129a	245621004	MAP	2/11/10 5:41	946488	10-1424	2	LANL	USE	S
EXP0208130a	245621005	MAP	2/11/10 6:11	946488	10-1424	2	LANL	USE	S
EXP0208131a	245621006	MAP	2/11/10 6:40	946488	10-1424	2	LANL	USE	S
EXP0208132a	245621007	MAP	2/11/10 7:10	946488	10-1424	2	LANL	USE	S
EXP0208133a	WXXCCV	MAP	2/11/10 7:39			1		USE	C
EXP0208134a	XIBLK15	MAP	2/11/10 8:09			1		USE	B
EXP0208135a	WXXCRI	MAP	2/11/10 8:38			1		USE	C
EXP0208136a	245621008	MAP	2/11/10 9:08	946488	10-1424	2	LANL	USE	S
EXP0208137a	245621009	MAP	2/11/10 9:37	946488	10-1424	2	LANL	USE	S
EXP0208138a	245621010	MAP	2/11/10 10:07	946488	10-1424	2	LANL	USE	S
EXP0208139a	245621011	MAP	2/11/10 10:36	946488	10-1424	2	LANL	USE	S
EXP0208140a	245628002	MAP	2/11/10 11:06	946488	10-1427	2	LANL	USE	S

EXP0208141a	245628003	MAP	2/11/10 11:36	946488	10-1427	2	LANL	USE	S
EXP0208142a	245628004	MAP	2/11/10 12:05	946488	10-1427	2	LANL	USE	S
EXP0208143a	245631002	MAP	2/11/10 12:35	946488	10-1428	2	LANL	USE	S
EXP0208144a	245631003	MAP	2/11/10 13:04	946488	10-1428	2	LANL	USE	S
EXP0208145a	WXXCCV	MAP	2/11/10 13:34			1		USE	C
EXP0208146a	XIBLK16	MAP	2/11/10 14:03			1		USE	B
EXP0208147a	WXXCRI	MAP	2/11/10 14:33			1		USE	C
EXP0208148a	245597002	MAP	2/11/10 15:02	946483	10-1408	25	LANL	DUSE	S
EXP0208149a	245597002	MAP	2/11/10 15:32	946483	10-1408	25	LANL	USE	S
EXP0208150a	1202027275	MAP	2/11/10 16:01	946488	Various	2	LANL	USE	S
EXP0208151a	245621002	MAP	2/11/10 16:31	946488	10-1424	2	LANL	USE	S
EXP0208152a	1202027276	MAP	2/11/10 17:00	946488	10-1424	2	LANL	USE	S
EXP0208153a	IXP100210-02	MAP	2/11/10 17:30	SCREEN	NA	1	GEL	USE	S
EXP0208154a	IXX100208-03	MAP	2/11/10 18:00	SCREEN	NA	1	GEL	USE	S
EXP0208155a	WXXCCV	MAP	2/11/10 18:29			1		USE	C
EXP0208156a	XIBLK17	MAP	2/11/10 18:58			1		USE	B
EXP0208157a	WXXCRI	MAP	2/11/10 19:28			1		USE	C
EXP0208158a	1202028676	MAP	2/11/10 19:57	947084	Various	2	LANL	USE	S
EXP0208159a	1202028677	MAP	2/11/10 20:27	947084	Various	2	LANL	USE	S
EXP0208160a	245663001	MAP	2/11/10 20:57	947084	10-1436	2	LANL	USE	S
EXP0208161a	1202028678	MAP	2/11/10 21:26	947084	10-1436	2	LANL	USE	S
EXP0208162a	1202028679	MAP	2/11/10 21:55	947084	10-1436	2	LANL	USE	S
EXP0208163a	245663002	MAP	2/11/10 22:25	947084	10-1436	2	LANL	USE	S
EXP0208164a	245663003	MAP	2/11/10 22:54	947084	10-1436	2	LANL	USE	S
EXP0208165a	245663004	MAP	2/11/10 23:24	947084	10-1436	2	LANL	USE	S
EXP0208166a	245663005	MAP	2/11/10 23:53	947084	10-1436	2	LANL	USE	S
EXP0208167a	245663006	MAP	2/12/10 0:23	947084	10-1436	2	LANL	USE	S
EXP0208168a	WXXCCV	MAP	2/12/10 0:52			1		USE	C
EXP0208169a	XIBLK18	MAP	2/12/10 1:22			1		USE	B
EXP0208170a	WXXCRI	MAP	2/12/10 1:51			1		USE	C
EXP0208171a	245803001	MAP	2/12/10 2:21	947084	10-1473	2	LANL	USE	S
EXP0208172a	245803002	MAP	2/12/10 2:50	947084	10-1473	2	LANL	USE	S
EXP0208173a	245803003	MAP	2/12/10 3:20	947084	10-1473	2	LANL	USE	S
EXP0208174a	245803004	MAP	2/12/10 3:50	947084	10-1473	2	LANL	USE	S
EXP0208175a	245803005	MAP	2/12/10 4:19	947084	10-1473	2	LANL	USE	S
EXP0208176a	245803006	MAP	2/12/10 4:49	947084	10-1473	2	LANL	USE	S
EXP0208177a	245803007	MAP	2/12/10 5:18	947084	10-1473	2	LANL	USE	S

EXP0208178a	245803008	MAP	2/12/10 5:48	947084	10-1473	2	LANL	USE	S
EXP0208179a	WXXCCV	MAP	2/12/10 6:17			1		USE	C
EXP0208180a	XIBLK19	MAP	2/12/10 6:47			1		USE	B
EXP0208181a	WXXCRI	MAP	2/12/10 7:16			1		USE	C



INSTRUMENT ID: LCMSMS4

GEL ORGANIC RUN LOG

Date: 02/12/10  
 Extr. Injection Volume: 10uL  
 Sequence Number: 021210exs  
 Initial Calibration Date: 021210  
 Method: 8321A-Modified  
 Int. Std.: N/A  
 Mobile Phase Lot#: 1263794, 1258141  
 Standard-Samp Reagent Lot#: 1246195, 1253092  
 Reviewed By: *hmy*  
 Date: 02/16/10  
 SOP: GL-OA-E-056 Rev.12  
 Alt Check Std. ID: WXX100212-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS02120001.wiff	XIBLK01	LER	2/12/2010 11:26			1		USE	B
EXS02120002.wiff	XIBLK01	LER	2/12/2010 11:42			1		USE	B
EXS02120003.wiff	WXXICAL-19	LER	2/12/2010 11:57			1		USE	I
EXS02120004.wiff	WXXICAL-20	LER	2/12/2010 12:13			1		USE	I
EXS02120005.wiff	WXXICAL-21	LER	2/12/2010 12:29			1		USE	I
EXS02120006.wiff	WXXICAL-22	LER	2/12/2010 12:45			1		USE	I
EXS02120007.wiff	WXXICAL-23	LER	2/12/2010 13:00			1		USE	I
EXS02120008.wiff	WXXICAL-24	LER	2/12/2010 13:16			1		USE	I
EXS02120009.wiff	WXXICAL-25	LER	2/12/2010 13:32			1		USE	I
EXS02120010.wiff	XIBLK02	LER	2/12/2010 13:47			1		USE	I
EXS02120011.wiff	WXXICV	LER	2/12/2010 14:03			1		USE	B
EXS02120012.wiff	XIBLK03	LER	2/12/2010 14:19			1		USE	C
EXS02120013.wiff	WXXCRI	LER	2/12/2010 14:34			1		USE	B
EXS02120014.wiff	1202027274	LER	2/12/2010 14:50	946488	VARIOUS	2	LANL	USE	C
EXS02120015.wiff	1202027275	LER	2/12/2010 15:06	946488	VARIOUS	2	LANL	USE	S
EXS02120016.wiff	245621002	LER	2/12/2010 15:22	946488	10-1424	2	LANL	USE	S
EXS02120017.wiff	1202027276	LER	2/12/2010 15:37	946488	10-1424	2	LANL	USE	S
EXS02120018.wiff	1202027277	LER	2/12/2010 15:53	946488	10-1424	2	LANL	USE	S
EXS02120019.wiff	245621003	LER	2/12/2010 16:09	946488	10-1424	2	LANL	USE	S
EXS02120020.wiff	245621004	LER	2/12/2010 16:24	946488	10-1424	2	LANL	USE	S
EXS02120021.wiff	245621005	LER	2/12/2010 16:40	946488	10-1424	2	LANL	USE	S
EXS02120022.wiff	245621006	LER	2/12/2010 16:56	946488	10-1424	2	LANL	USE	S
EXS02120023.wiff	245621007	LER	2/12/2010 17:11	946488	10-1424	2	LANL	USE	S
EXS02120024.wiff	WXXCCV	LER	2/12/2010 17:27			1		USE	C
EXS02120025.wiff	XIBLK04	LER	2/12/2010 17:43			1		USE	B
EXS02120026.wiff	WXXCRI	LER	2/12/2010 17:59			1		USE	C
EXS02120027.wiff	245621008	LER	2/12/2010 18:14	946488	10-1424	2	LANL	USE	S
EXS02120028.wiff	245621009	LER	2/12/2010 18:30	946488	10-1424	2	LANL	USE	S
EXS02120029.wiff	245621010	LER	2/12/2010 18:46	946488	10-1424	2	LANL	USE	S

EXS02120030.wiff	245621011	LER	2/12/2010 19:01	946488	10-1424	2	LANL	USE	S
EXS02120031.wiff	245628002	LER	2/12/2010 19:17	946488	10-1427	2	LANL	USE	S
EXS02120032.wiff	245628003	LER	2/12/2010 19:33	946488	10-1427	2	LANL	USE	S
EXS02120033.wiff	245628004	LER	2/12/2010 19:48	946488	10-1427	2	LANL	USE	S
EXS02120034.wiff	245631002	LER	2/12/2010 20:04	946488	10-1428	2	LANL	USE	S
EXS02120035.wiff	245631003	LER	2/12/2010 20:20	946488	10-1428	2	LANL	USE	S
EXS02120036.wiff	WXXCCV	LER	2/12/2010 20:36			1		USE	C
EXS02120037.wiff	XIBLK05	LER	2/12/2010 20:51			1		USE	B
EXS02120038.wiff	WXXCRI	LER	2/12/2010 21:07			1		USE	C
EXS02120039.wiff	1202028676	LER	2/12/2010 21:23	947084	VARIOUS	2	LANL	USE	S
EXS02120040.wiff	1202028677	LER	2/12/2010 21:38	947084	VARIOUS	2	LANL	USE	S
EXS02120041.wiff	245663001	LER	2/12/2010 21:54	947084	10-1436	2	LANL	USE	S
EXS02120042.wiff	1202028678	LER	2/12/2010 22:10	947084	10-1436	2	LANL	USE	S
EXS02120043.wiff	1202028679	LER	2/12/2010 22:25	947084	10-1436	2	LANL	USE	S
EXS02120044.wiff	245663002	LER	2/12/2010 22:41	947084	10-1436	2	LANL	USE	S
EXS02120045.wiff	245663003	LER	2/12/2010 22:57	947084	10-1436	2	LANL	USE	S
EXS02120046.wiff	245663004	LER	2/12/2010 23:13	947084	10-1436	2	LANL	USE	S
EXS02120047.wiff	245663005	LER	2/12/2010 23:28	947084	10-1436	2	LANL	USE	S
EXS02120048.wiff	245663006	LER	2/12/2010 23:44	947084	10-1436	2	LANL	USE	S
EXS02120049.wiff	WXXCCV	LER	2/13/2010 0:00			1		USE	C
EXS02120050.wiff	XIBLK06	LER	2/13/2010 0:15			1		USE	B
EXS02120051.wiff	WXXCRI	LER	2/13/2010 0:31			1		USE	C
EXS02120052.wiff	245803001	LER	2/13/2010 0:47	947084	10-1473	2	LANL	USE	S
EXS02120053.wiff	245803002	LER	2/13/2010 1:03	947084	10-1473	2	LANL	USE	S
EXS02120054.wiff	245803003	LER	2/13/2010 1:18	947084	10-1473	2	LANL	USE	S
EXS02120055.wiff	245803004	LER	2/13/2010 1:34	947084	10-1473	2	LANL	USE	S
EXS02120056.wiff	245803005	LER	2/13/2010 1:50	947084	10-1473	2	LANL	USE	S
EXS02120057.wiff	245803006	LER	2/13/2010 2:05	947084	10-1473	2	LANL	USE	S
EXS02120058.wiff	245803007	LER	2/13/2010 2:21	947084	10-1473	2	LANL	USE	S
EXS02120059.wiff	245803008	LER	2/13/2010 2:37	947084	10-1473	2	LANL	USE	S
EXS02120060.wiff	WXXCCV	LER	2/13/2010 2:52			1		USE	C
EXS02120061.wiff	XIBLK07	LER	2/13/2010 3:08			1		USE	B
EXS02120062.wiff	WXXCRI	LER	2/13/2010 3:24			1		USE	C
EXS02120063.wiff	1202028672	LER	2/13/2010 3:40	947078	VARIOUS	2	LANL	DUSE-RA	S
EXS02120064.wiff	1202028673	LER	2/13/2010 3:55	947078	VARIOUS	2	LANL	DUSE-RA	S
EXS02120065.wiff	245661001	LER	2/13/2010 4:11	947078	10-1435	2	LANL	DUSE-RA	S
EXS02120066.wiff	245686001	LER	2/13/2010 4:27	947078	10-1432	2	LANL	DUSE-RA	S

EXS02120067.wiff	1202028674	LER	2/13/2010 4:42	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120068.wiff	1202028675	LER	2/13/2010 4:58	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120069.wiff	245686002	LER	2/13/2010 5:14	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120070.wiff	245686003	LER	2/13/2010 5:30	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120071.wiff	245686004	LER	2/13/2010 5:45	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120072.wiff	245686005	LER	2/13/2010 6:01	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120073.wiff	WXCCV	LER	2/13/2010 6:17			1		DUSE-RA	C
EXS02120074.wiff	XIBLK08	LER	2/13/2010 6:32			1		DUSE-RA	B
EXS02120075.wiff	WXXCRI	LER	2/13/2010 6:48			1		DUSE-RA	C
EXS02120076.wiff	245686006	LER	2/13/2010 7:04	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120077.wiff	245686007	LER	2/13/2010 7:20	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120078.wiff	245686008	LER	2/13/2010 7:35	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120079.wiff	245686009	LER	2/13/2010 7:51	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120080.wiff	245686010	LER	2/13/2010 8:07	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120081.wiff	245686011	LER	2/13/2010 8:22	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120082.wiff	245686012	LER	2/13/2010 8:38	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120083.wiff	245686013	LER	2/13/2010 8:54	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120084.wiff	245686014	LER	2/13/2010 9:09	947078	10-1432	2	LANL	DUSE-RA	S
EXS02120085.wiff	WXCCV	LER	2/13/2010 9:25			1		DUSE-RA	C
EXS02120086.wiff	XIBLK09	LER	2/13/2010 9:41			1		DUSE-RA	B
EXS02120087.wiff	WXXCRI	LER	2/13/2010 9:57			1		DUSE-RA	C

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208161a

Date: 11-Feb-2010

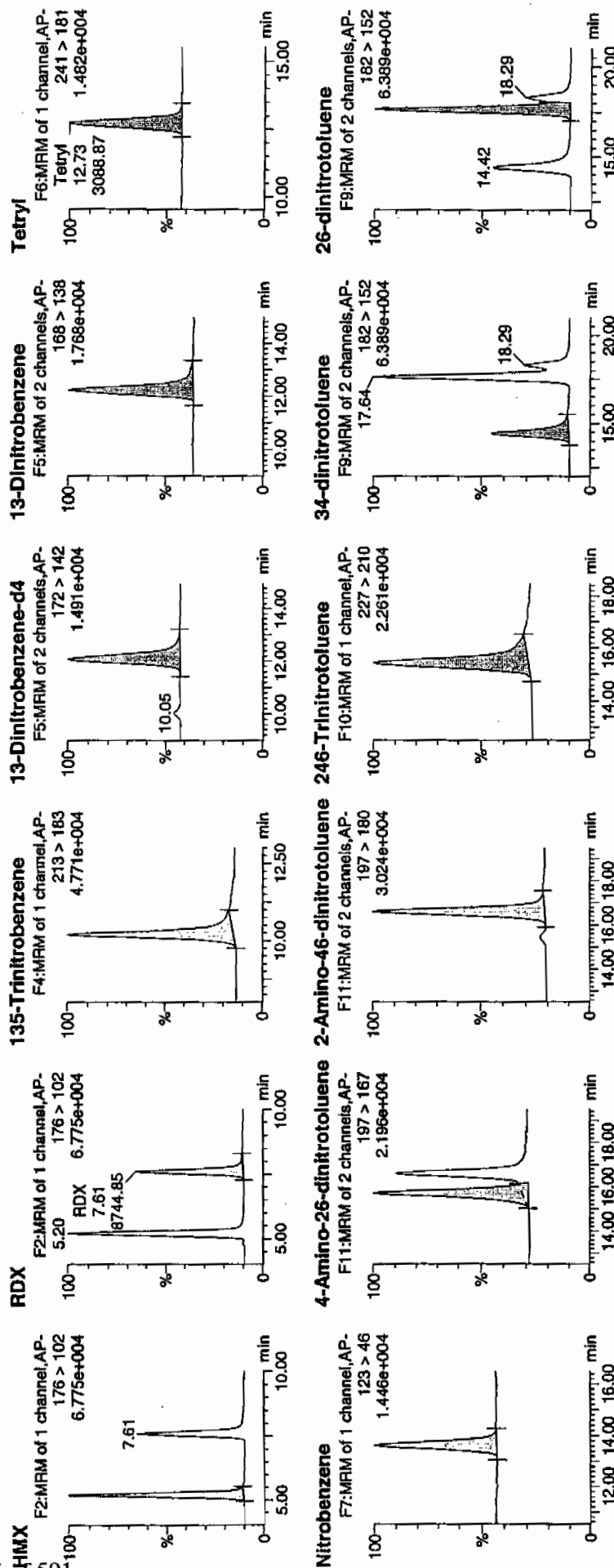
Time: 21:26:28

ID: 1202028678

Vial: 4:1,D

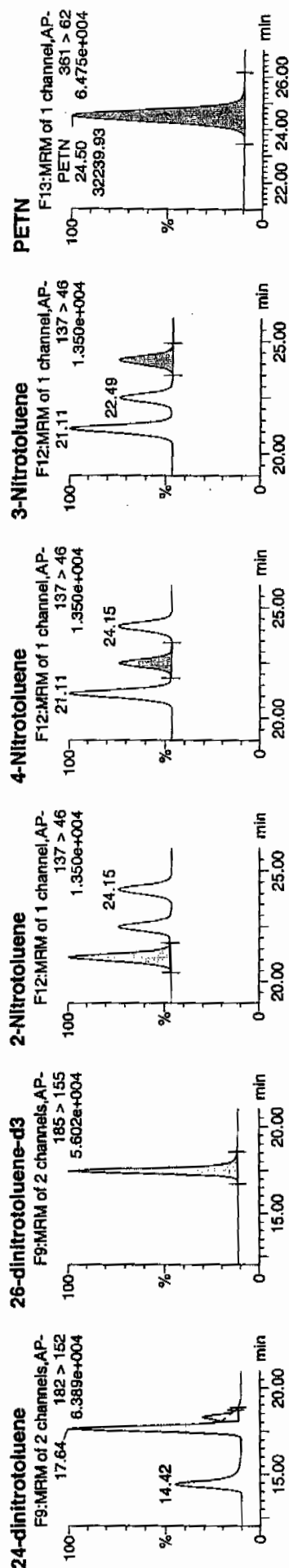
not  
2/12/10

WAV 947084 | 24563001ms | 21



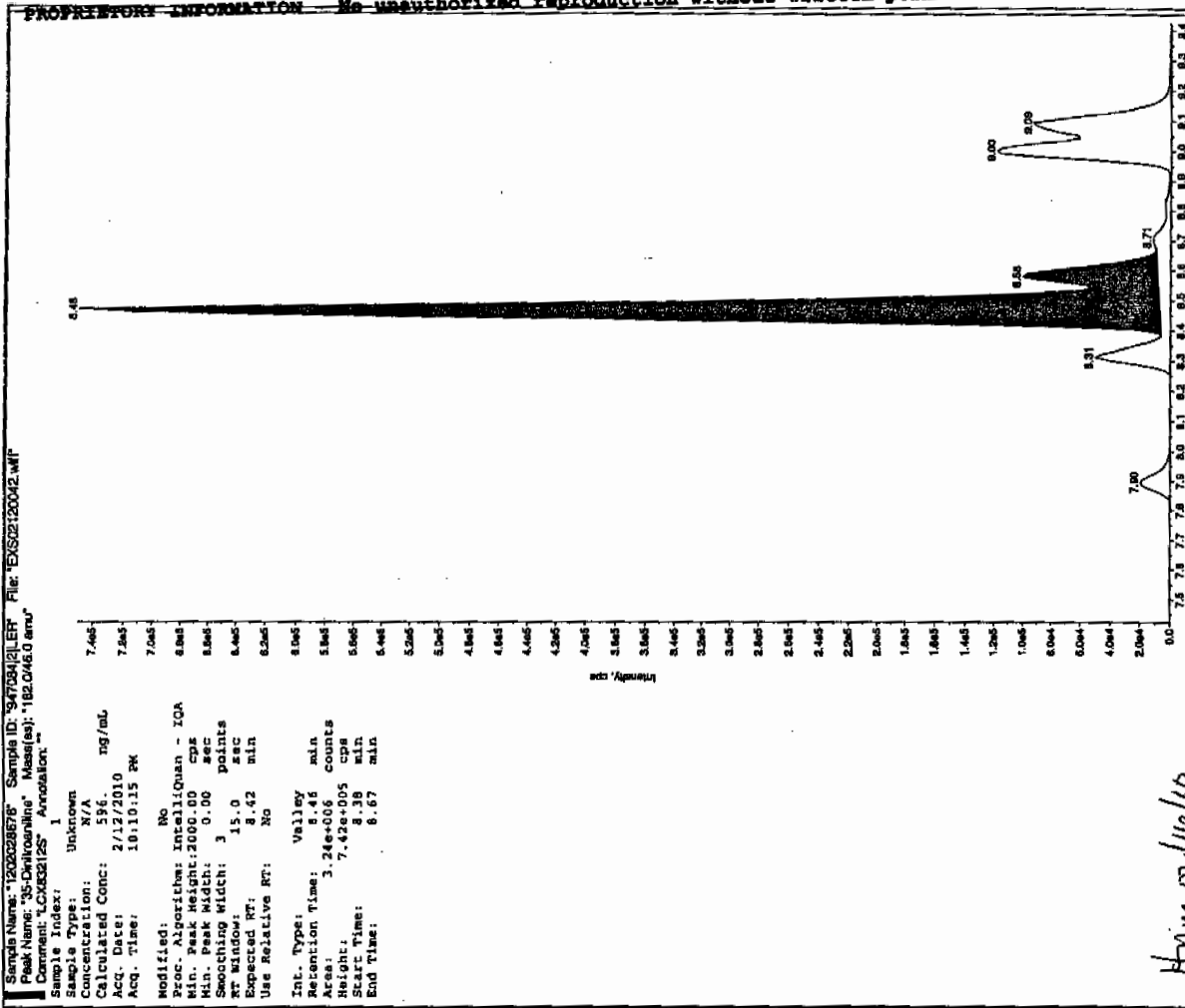
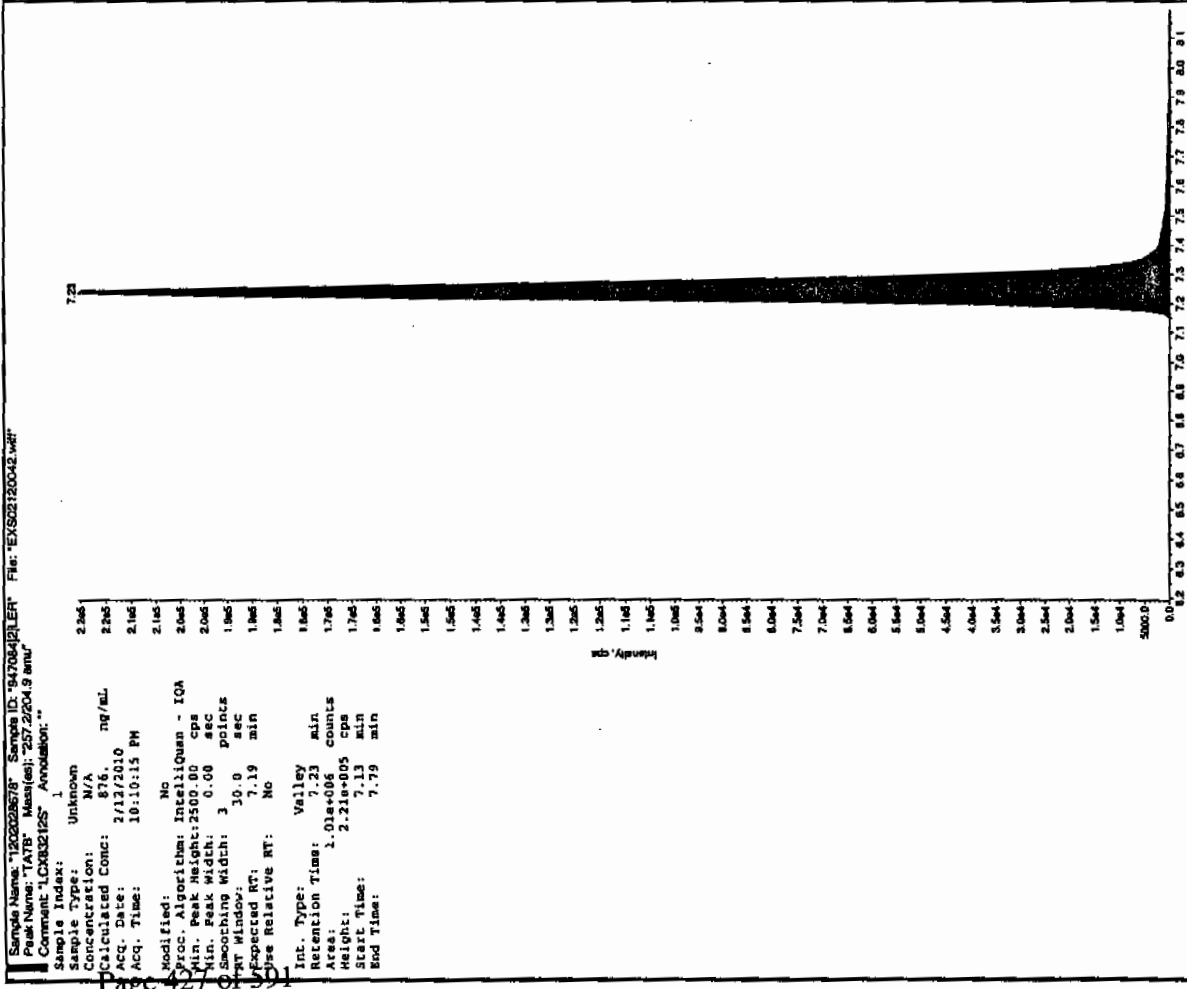
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Dataset: C:\MASSLYN\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



Name	Trace	RT	Area	Area	Abn. Resp	Response	Flags	Mod. Date	Mod. Time	Int. Yr/Mo	%Rec	%Dev	SN
HMX	176 > 102	5.20	12108.765	3506.178	12108.765	1726.776	bb		497.2281	99.4	-0.6	1298.0	
FDX	176 > 102	7.61	8744.855	3506.178	8744.855	1247.064	bb		513.5874	102.7	2.7	802.1	
135-Trinitrobenzene	213 > 183	10.20	11951.950	3506.178	11951.950	1704.413	bb		462.7714	92.6	-7.4	881.7	
13-Dinitrobenzene-d4	172 > 142	12.07	3506.178		3506.178	3506.178	bb		545.3566	109.1	9.1	512.5	
13-Dinitrobenzene	168 > 138	12.21	4419.226	3506.178	4419.226	630.206	bb		524.1250	104.8	4.8	235.1	
Tetryl	241 > 181	12.73	3088.870	3506.178	3088.870	440.490	bb		472.1887	94.4	-5.6	392.5	
Nitrobenzene	123 > 46	13.62	2873.237	3506.178	2873.237	409.739	bb		507.2468	101.4	1.4	268.9	
4-Amino-26-dinitrotoluene	197 > 167	15.70	6341.017	19877.320	6341.017	159.504	MM	12-Feb-10	08:00:16	555.2886	111.1	11.1	385.6
2-Amino-46-dinitrotoluene	197 > 180	16.60	9564.265	19877.320	9564.265	240.582	bb		607.4847	121.5	21.5	338.6	
246-Trinitrotoluene	227 > 210	15.44	7493.648	19877.320	7493.648	188.497	bb		584.1925	116.8	16.8	537.8	
34-dinitrotoluene	182 > 152	14.42	10962.077	19877.320	10962.077	275.743	bb		306.3842	122.6	22.6	271.4	
26-dinitrotoluene	182 > 152	17.64	21911.875	19877.320	21911.875	551.178	MM	12-Feb-10	08:05:35	513.1589	102.6	2.6	694.0
24-dinitrotoluene	182 > 152	18.29	4818.274	19877.320	4818.274	121.200	MM	12-Feb-10	08:07:26	496.6177	98.3	-0.7	149.5
26-dinitrotoluene-d3	185 > 155	17.46	19877.320		19877.320	19877.320	bb		538.3982	107.7	7.7	1684.8	
2-Nitrotoluene	137 > 46	21.11	3088.387	19877.320	3088.387	77.686	bb		501.0454	100.2	0.2	578.8	
4-Nitrotoluene	137 > 46	22.49	1599.865	19877.320	1599.865	40.243	bb		529.5010	105.9	5.9	292.5	
3-Nitrotoluene	137 > 46	24.15	1754.391	19877.320	1754.391	44.130	bb		473.6490	94.7	-5.3	299.4	
PETN	361 > 62	24.50	32239.928	19877.320	32239.928	810.973	bb		575.4191	115.1	15.1	7578.6	

Before Jan 21/5/10

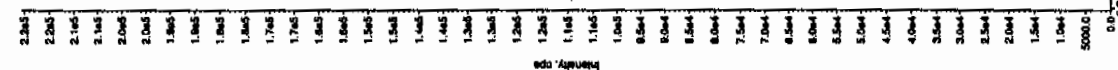


Hum. on 16/10

after Jan 21/10

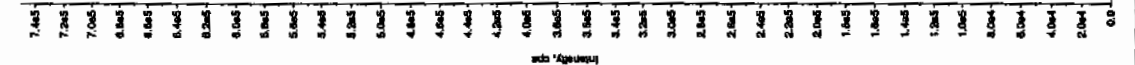
Sample Name: "120208078" Sample ID: "947084212" File: "EXS02120042.wif"  
Peak Name: "TATP" Mass(es): 257.2204.9 amu  
Comment: "LCX832125" Annotation: "

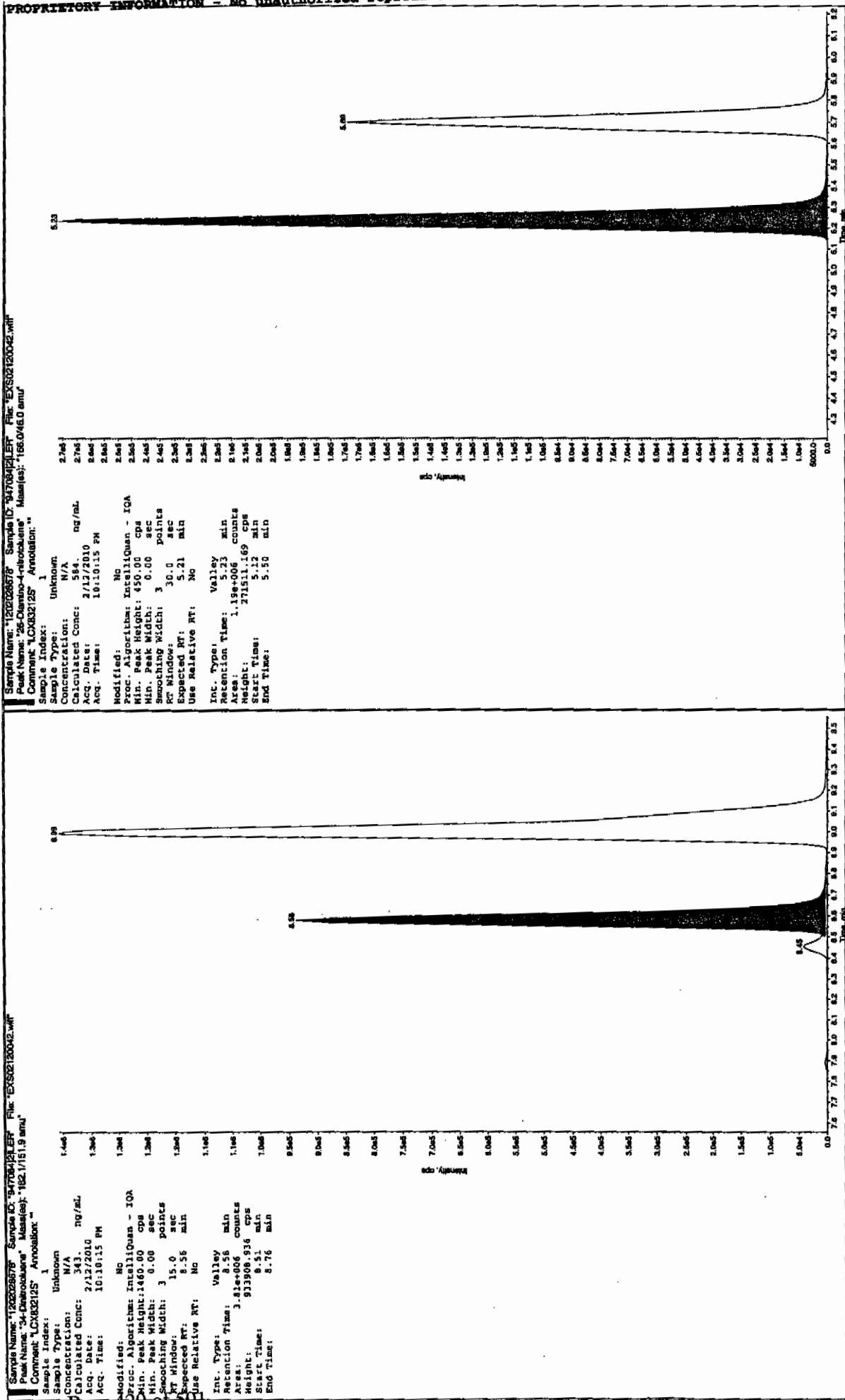
Sample Index: 1  
Sample Type: Unknown  
Concentration: 876 ng/mL  
Calculated Conc: 2/12/2010  
Acq. Date: 2/12/2010  
Acq. Time: 10:10:15 PM  
Modified: No  
Proc. Algorithm: Intelliquan - TOA  
Min. Peak Height: 2500.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 7.13 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 7.23 min  
Area: 1.01e+006 counts  
Height: 22570.770 cps  
Start Time: 7.13 min  
End Time: 7.79 min



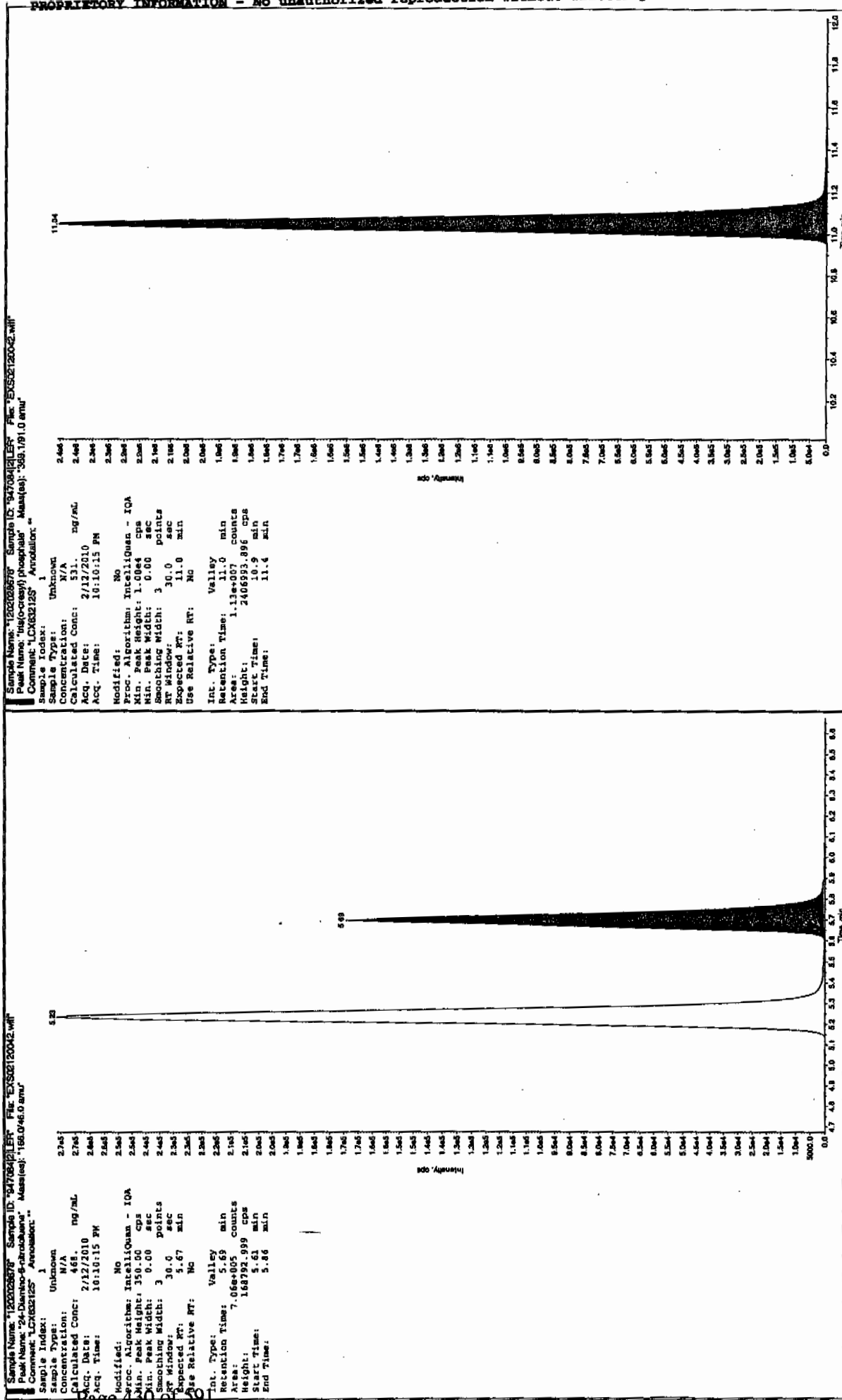
Sample Name: "120208078" Sample ID: "947084212" File: "EXS02120042.wif"  
Peak Name: "35-Dihydroquinone" Mass(es): 182.046.0 amu  
Comment: "LCX832125" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: 576 ng/mL  
Calculated Conc: 2/12/2010  
Acq. Date: 2/12/2010  
Acq. Time: 10:10:15 PM  
Modified: Yes  
RT Window: 15.0 sec  
Expected RT: 8.42 min  
Use Relative RT: No  
Int. Type: Manual  
Retention Time: 8.46 min  
Area: 2.94e+006 counts  
Height: 751632.452 cps  
Start Time: 8.38 min  
End Time: 8.55 min









Printed: Fri Feb 12 08:13:51 2010, Page 53 of 93

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0208162a

Date: 11-Feb-2010

Time: 21:55:56

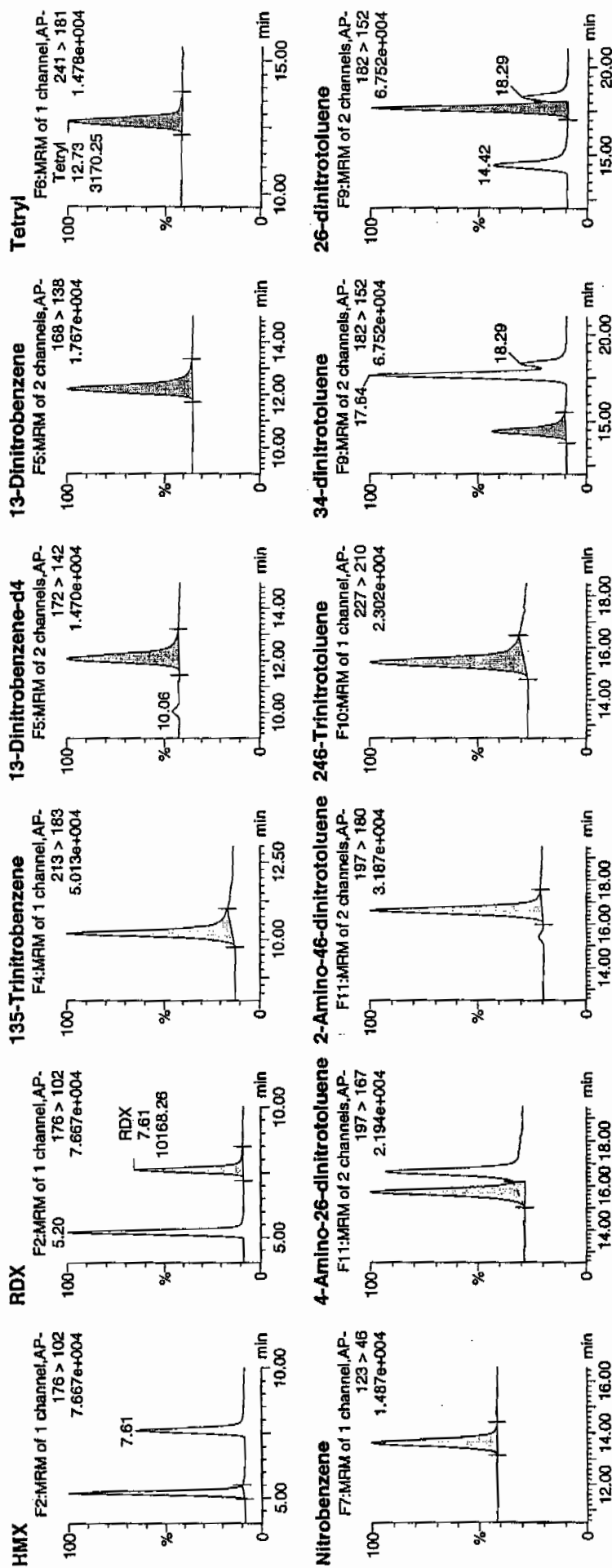
ID: 1202028679

Vial: 4:1,E

4/12/10

24566300148D / 21

947084 / 8022

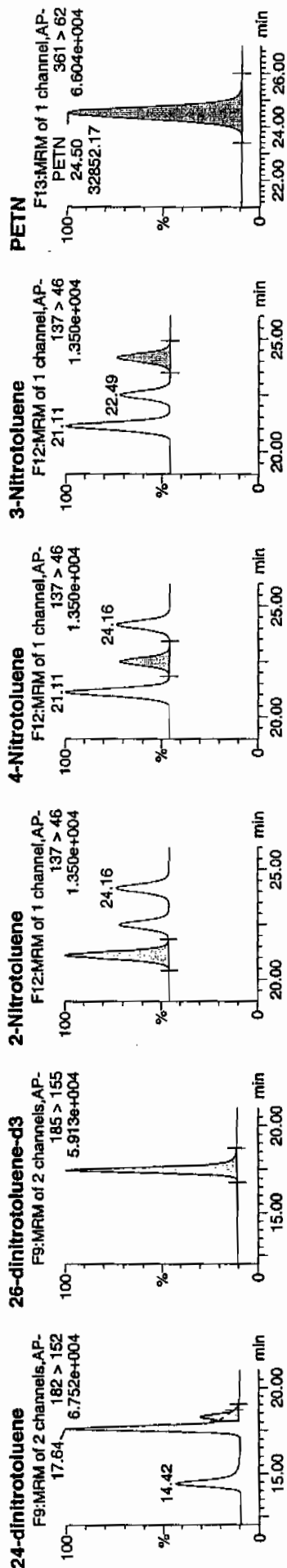


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## Quantify Sample Report

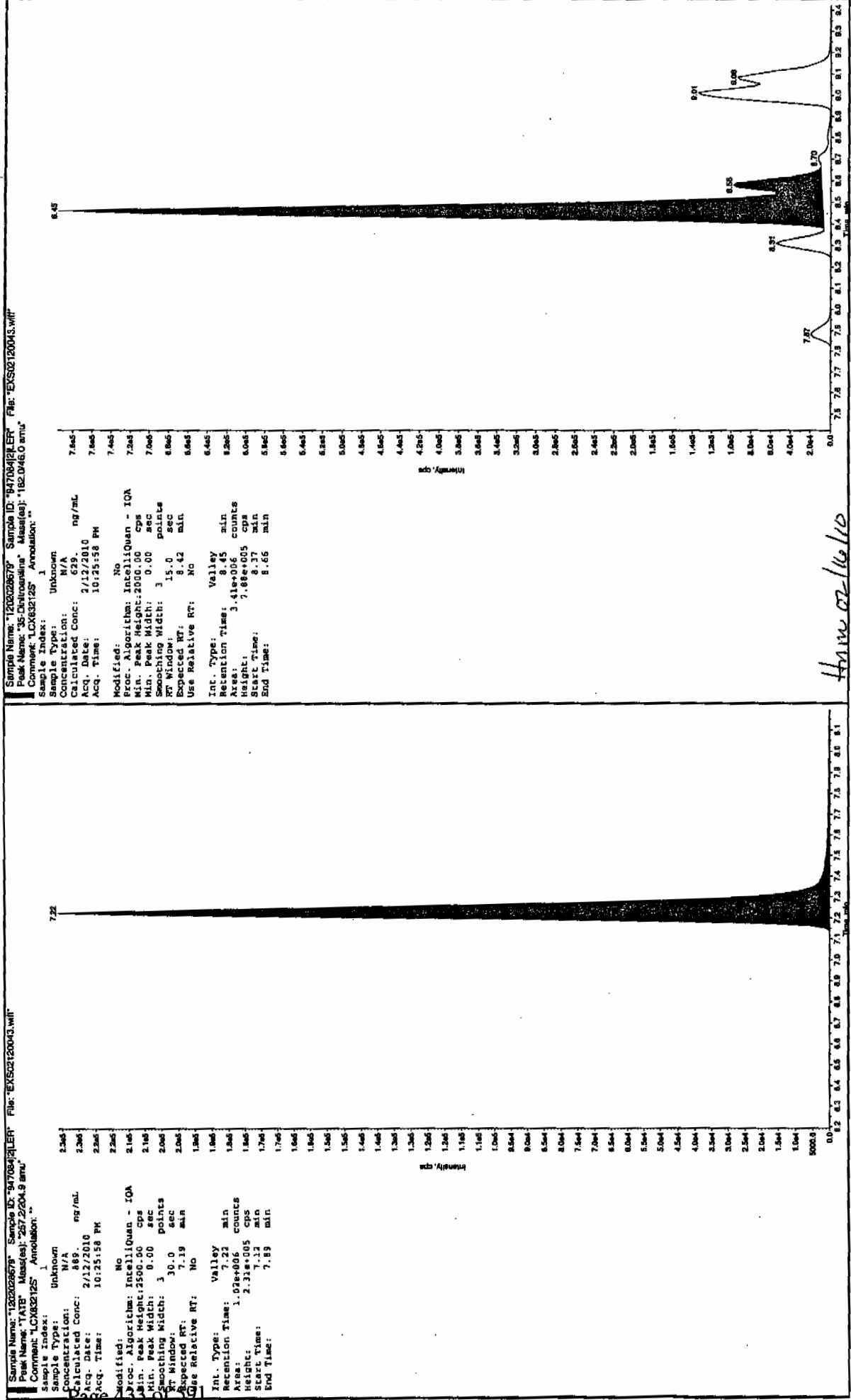
**GEL Laboratories, LLC / Analyst : Michael A. Penny**

Dataset: C:\MASSLYNX\New\_Exp.PRO\020810expA3.qld, Time: Fri Feb 12 08:08:48 2010



Name	Traces	RT	Area	IS/Area	Abst.Hsp	Response	Flags	Mod.Date	Mod.Time	Accum.	Red	Mod	SN
1202028679	176 > 102	5.20	13743.260	3487.313	13743.260	1970.466	bb			567.3991	113.5	13.5	3603.8
1202028679	176 > 102	7.61	10168.257	3487.313	10168.257	1457.893	bb			600.4147	120.1	20.1	2256.4
1202028679	213 > 183	10.20	12361.144	3487.313	12361.144	1772.302	bb			481.2042	96.2	-3.8	2141.5
1202028679	172 > 142	12.07	3487.313		3487.313	3487.313	bb			542.4223	108.5	8.5	401.9
1202028679	168 > 138	12.21	4411.508	3487.313	4411.508	632.508	bb			526.0400	105.2	5.2	516.8
1202028679	241 > 181	12.73	3170.247	3487.313	3170.247	454.540	bb			488.3756	97.7	-2.3	240.1
1202028679	123 > 46	13.62	3033.648	3487.313	3033.648	434.955	bb			538.4633	107.7	7.7	361.9
1202028679	197 > 167	15.70	6369.327	21447.969	6369.327	148.483	MM	12-Feb-10	08:00:34	516.9220	103.4	3.4	357.4
1202028679	227 > 180	16.62	10144.538	21447.969	10144.538	236.492	bb			597.1558	119.4	19.4	771.1
1202028679	227 > 210	15.44	7374.098	21447.969	7374.098	171.907	bb			532.7743	106.6	6.6	586.6
1202028679	182 > 152	14.42	11010.361	21447.969	11010.361	256.676	bb			285.1982	114.1	14.1	501.9
1202028679	182 > 152	17.64	23706.416	21447.969	23706.416	552.649	MM	12-Feb-10	08:05:42	514.5291	102.9	2.9	1346.5
1202028679	182 > 152	18.29	5644.318	21447.969	5644.318	131.582	MM	12-Feb-10	08:07:14	539.1552	107.8	7.8	299.2
1202028679	185 > 155	17.46	21447.969		21447.969	21447.969	bb			580.9409	116.2	16.2	1457.5
1202028679	137 > 46	21.11	3124.188	21447.969	3124.188	72.832	bb			469.7364	93.9	-6.1	890.8
1202028679	137 > 46	22.49	1537.952	21447.969	1537.952	35.853	bb			471.7348	94.3	-5.7	425.2
1202028679	137 > 46	24.16	1756.606	21447.969	1756.606	40.950	bb			439.5175	87.9	-12.1	455.8
1202028679	361 > 62	24.50	32852.168	21447.969	32852.168	765.857	bb			538.2113	107.6	7.6	5183.8

Before Jan 2/15/10



After 02/16/10

after Jan 2/15/10

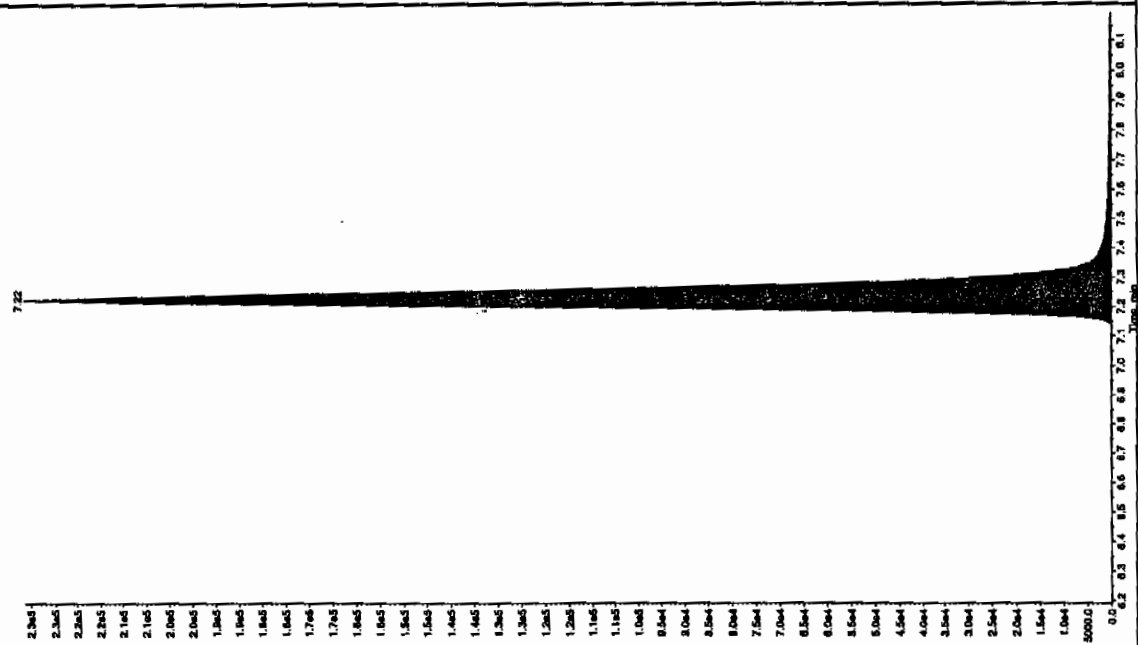
PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Sample Name: "1202020679" Sample ID: "94709421.ER" File: "EXS22120043.wif"

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

Comment: "LCMS22120043" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 578. ng/mL  
Acq. Date: 2/12/2010  
Acq. Time: 10:25:58 PM  
Modified: Yes  
RT Window: 15.0 sec  
Expected RT: 8.42 min  
Use Relative RT: No  
Int. Type: Manual  
Retention Time: 8.45 min  
Area: 3.15e+006 counts  
Height: 791829.654 cps  
Start Time: 8.37 min  
End Time: 8.55 min

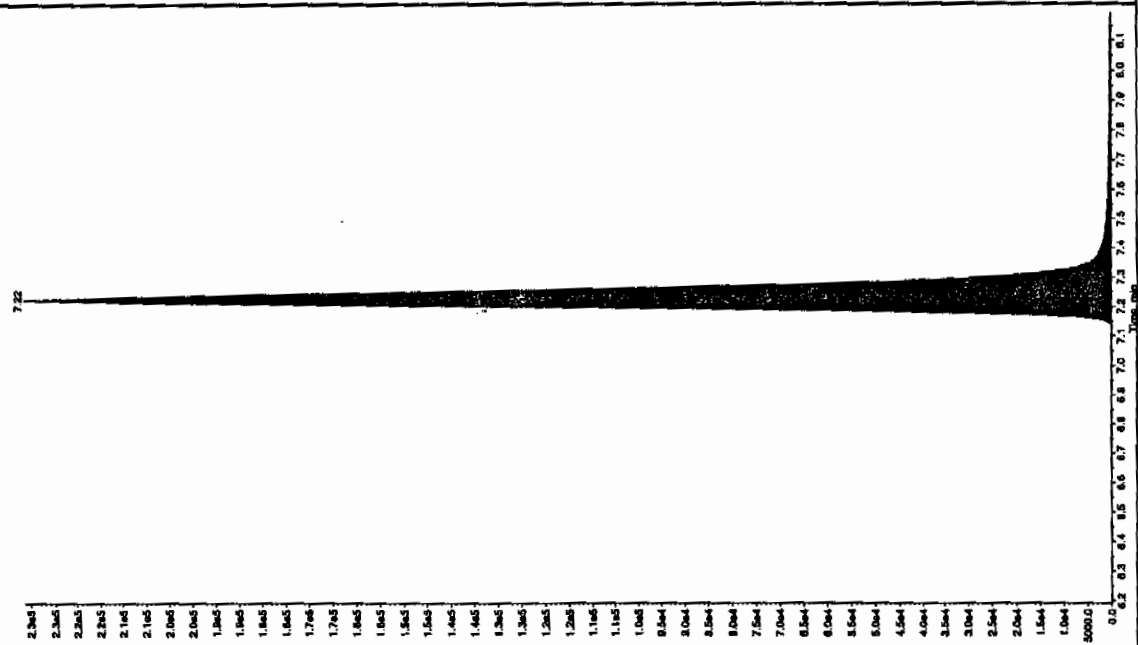


Sample Name: "1202020679" Sample ID: "94709421.ER" File: "EXS22120043.wif"

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

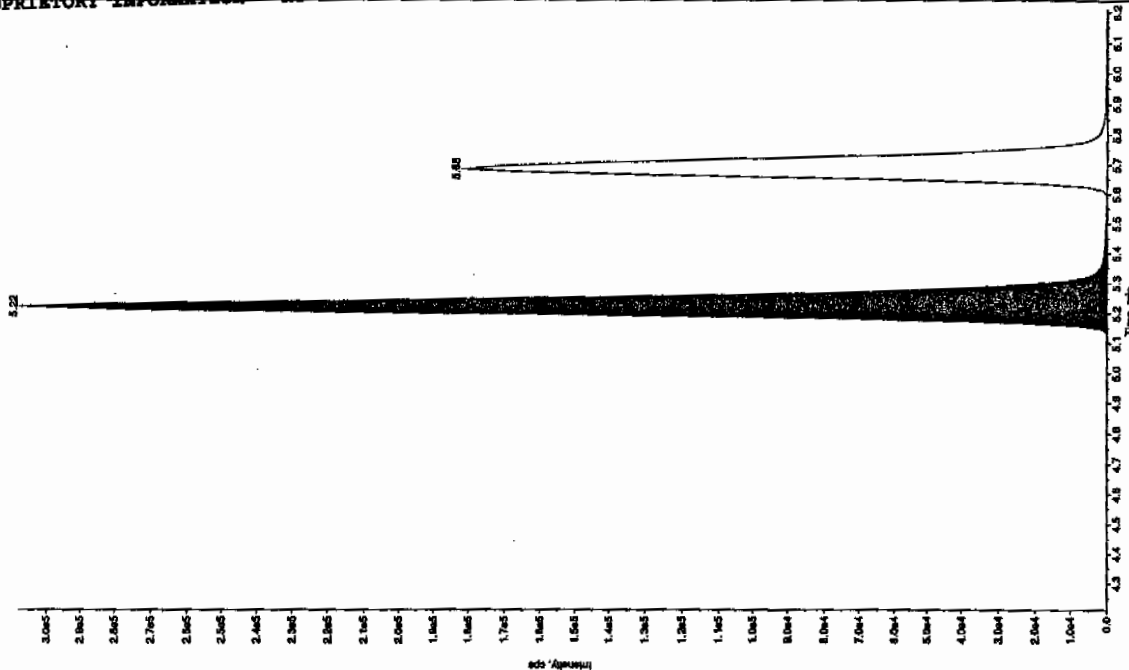
Comment: "LCMS22120043" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 578. ng/mL  
Acq. Date: 2/12/2010  
Acq. Time: 10:25:58 PM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 2500.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 7.19 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 7.22 min  
Area: 1.02e+006 counts  
Height: 231396.317 cps  
Start Time: 7.12 min  
End Time: 7.89 min



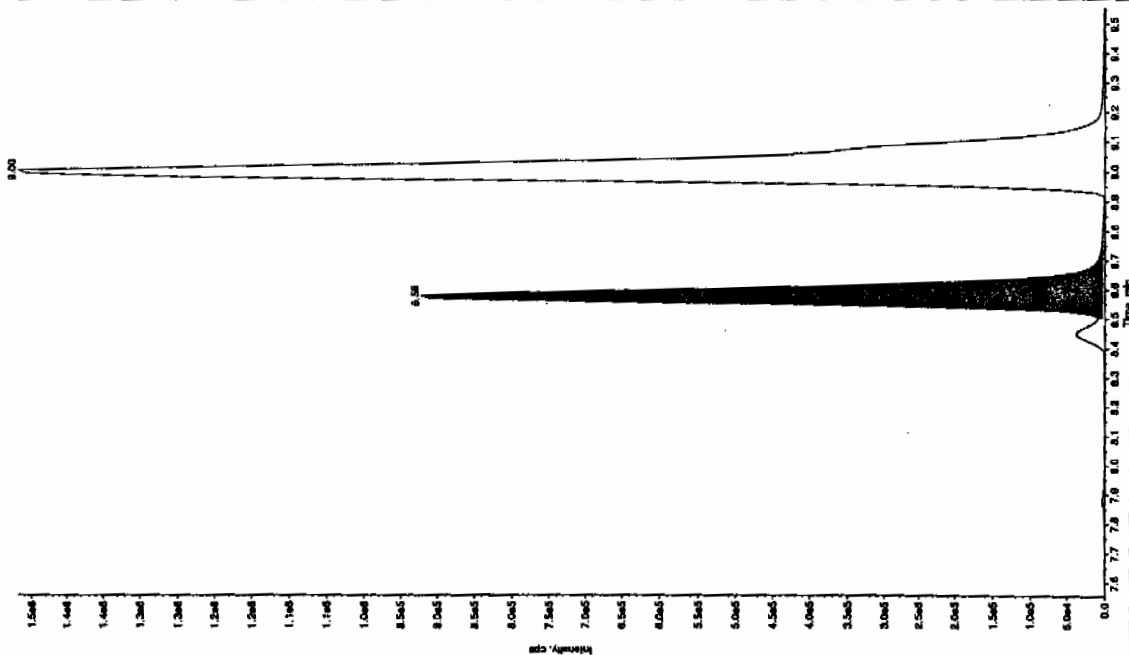
Sample Name: "1202028579" Sample ID: "947064121" File: "EX502120043.wif"  
 Peak Name: "26-Dienino-4-nitroclurea" Mass(es): "166.046.0 amu"  
 Comment: "LCX832125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 604 ng/mL  
 Calculated Conc: 2/12/2010  
 Acq. Date: 10:25:58 PM  
 Acq. Time: 10:25:58 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 5.21 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.22 min  
 Area: 1.23e+006 counts  
 Height: 308221.008 cps  
 Start Time: 5.12 min  
 End Time: 5.32 min



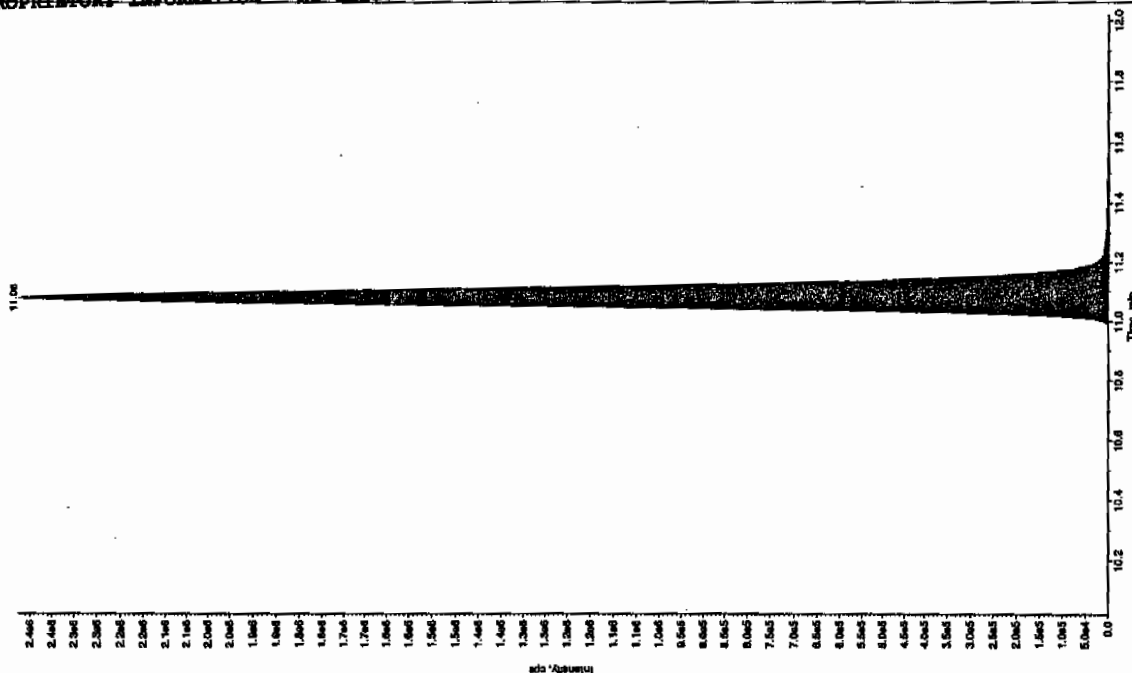
Sample Name: "1202028579" Sample ID: "947064121" File: "EX502120043.wif"  
 Peak Name: "34-Dinitroclurea" Mass(es): "182.17151.9 amu"  
 Comment: "LCX832125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 321 ng/mL  
 Calculated Conc: 2/12/2010  
 Acq. Date: 10:25:58 PM  
 Acq. Time: 10:25:58 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 1450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.56 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.58 min  
 Area: 3.61e+006 counts  
 Height: 917774.841 cps  
 Start Time: 8.51 min  
 End Time: 8.75 min



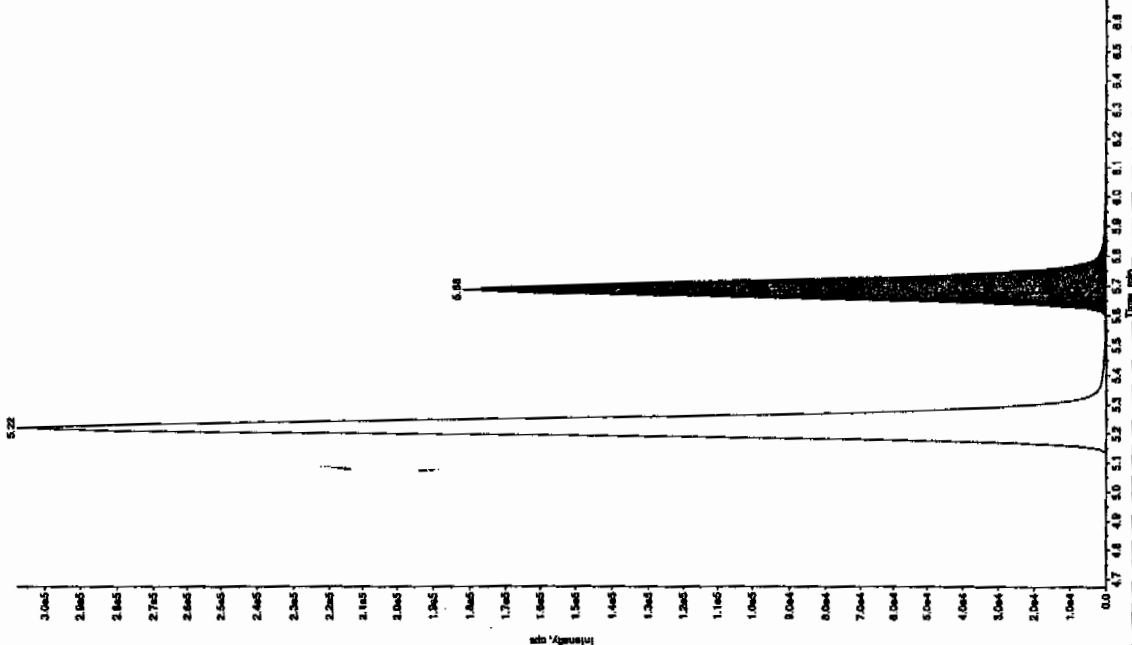
Sample Name: "12020957" Sample ID: "94704121" File: "EX52120043.wif"  
 Peak Name: "bisio-crayli phosphate" Mass(es): "559.1810 amu"  
 Comment: "LCX5212S" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 509. ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 10:25:56 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 1.00e4 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 11.0 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 11.1 min  
 Area: 1.08e+007 counts  
 Height: 2428131.836 cps  
 Start Time: 11.0 min  
 End Time: 11.4 min



Sample Name: "12020957" Sample ID: "94704121" File: "EX52120043.wif"  
 Peak Name: "24-Diamino-6-aziridine" Mass(es): "165.0460 amu"  
 Comment: "LCX5212S" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 514. ng/mL  
 Acq. Date: 2/12/2010  
 Acq. Time: 10:25:56 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: 5.67 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.58 min  
 Area: 7.71e+005 counts  
 Height: 181744.781 cps  
 Start Time: 5.56 min  
 End Time: 6.08 min



GEL Laboratories LLC  
Form GEL-DER

DER Report No.: 791288

Revision No.: 1

DATA EXCEPTION REPORT			
Mo. Day Yr. 16-FEB-10	Division: Federal	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 947084	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 245663(10-1436), 245803(10-1473)			
<b>Application Issues:</b> Failed Recovery for MSD/PSD Failed Recovery for MS/PS			
Specification and Requirements Exception Description:		DER Disposition:	
1. The MS(1202028678) did not meet acceptance criteria for the recovery of TATB at 175%. The limits are 29-155%.  2. The MSD(1202028679) did not meet acceptance criteria for the recovery of TATB at 178%. The limits are 29-155%.		1. The MSD(1202028679) confirmed the high recovery at 178% which may be attributed to matrix interference in the sample. The LCS(1202028677) had a passing recovery of 160%. TATB was not detected in the parent sample. The data are considered unaffected and are reported.  2. The MS(1202028678) confirmed the high recovery at 175% which may be attributed to matrix interference in the sample. The LCS(1202028677) had a passing recovery of 160%. TATB was not detected in the parent sample. The data are considered unaffected and are reported.	

Originator's Name:

Lynne Russell 16-FEB-10

Data Validator/Group Leader:

Herbert Maier 16-FEB-10



GC  
SEMIVOLATILE  
PCB  
ANALYSIS

**PCB Case Narrative  
Los Alamos National Laboratory (LANL)  
SDG 10-1473**

**Method/Analysis Information**

**Procedure:** Analysis of Polychlorinated Biphenyls by ECD  
**Analytical Method:** SW846 8082  
**Prep Method:** SW846 3550B  
**Analytical Batch Number:** 949033  
**Prep Batch Number:** 949031

**Sample Analysis**

The following samples were analyzed using the analytical protocol as established in SW846 8082:

<b>Sample ID</b>	<b>Client ID</b>
245803006	RE15-10-8060
245803007	RE15-10-8058
245803008	RE15-10-8059
1202033246	Method Blank (MB)
1202033247	Laboratory Control Sample (LCS)
1202033248	245969001(RE15-10-7880) Matrix Spike (MS)
1202033249	245969001(RE15-10-7880) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

**Preparation/Analytical Method Verification**

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 14.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

**Calibration Information**

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

**Initial Calibration**

All initial calibration requirements have been met for this sample delivery group (SDG).

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

**Continuing Calibration Verification (CCV) Requirements**

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

One or more of the five quantified peaks did not meet the acceptance criteria in Aroclor-1254 and Aroclor-1268 standards analyzed for this SDG; however, the average concentration of the five quantitated peaks met the acceptance criteria.

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

The MB analyzed with this SDG met the acceptance criteria.

**Surrogate Recoveries**

All surrogate recoveries were within the established acceptance criteria for this SDG.

**Laboratory Control Sample (LCS) Recovery**

The LCS spike recoveries met the acceptance limits.

**QC Sample Designation**

A LANL sample of similar matrix associated with another SDG (#10-1512) was selected for the matrix spike and matrix spike duplicate analysis for this batch; however the MS and MSD results were not reportable because the parent sample was re-extracted and reported in another batch.

**Technical Information****Holding Time Specifications**

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

**Preparation/Analytical Method Verification**

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

**Sample Dilutions**

The samples in this SDG did not require dilutions.

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

Samples 245803006 (RE15-10-8060) and 245803007 (RE15-10-8058) were extracted and analyzed twice. The two sets of the results match with each other. The first analysis was reported.

**Miscellaneous Information****Electronic Package Comment**

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

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

**Data Exception (DER) Documentation**

Data exception report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

**Manual Integration**

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

**Additional Comments**

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form 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
ECD1A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticideII)

**Certification Statement**

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

**Review Validation**

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

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

Reviewer: Jimmy Cao

Date: 2/25/10

## Roadmap for LANL 10-1473 PCB

This roadmap was analyzed by yip00818 on 02-12-2010, 13:42.

This roadmap was reviewed by jim01140 on 02-16-2010, 09:00.

This roadmap was packaged by yml on 02-24-2010, 18:08.

This roadmap was validated by jim01140 on 02-25-2010, 08:59.

Front Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021010b.b019f1901.d	245803006	sample	10-FEB-2010	16:26	10-1473.sub	RE15-10-8060	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b025f2501.d	245803006	sample	05-FEB-2010	11:25	10-1473.sub	RE15-10-8060	1.00000	949033	AR1268 RE TO CONFIRM
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021010b.b020f2001.d	245803007	sample	10-FEB-2010	16:39	10-1473.sub	RE15-10-8058	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b026f2601.d	245803007	sample	05-FEB-2010	11:37	10-1470.sub	RE15-10-8058	1.00000	949033	AR1268 RE TO CONFIRM
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b027f2701.d	245803008	sample	05-FEB-2010	11:50	10-1473.sub	RE15-10-8059	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021010b.b019f1901.d	245803006	sample	10-FEB-2010	16:26	10-1473.sub	RE15-10-8060	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b025f2501.d	245803006	sample	05-FEB-2010	11:25	10-1473.sub	RE15-10-8060	1.00000	949033	AR1268 RE TO CONFIRM
<input checked="" type="checkbox"/>	N	/chem/ecd1a.i/021010b.b020f2001.d	245803007	sample	10-FEB-2010	16:39	10-1473.sub	RE15-10-8058	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b026f2601.d	245803007	sample	05-FEB-2010	11:37	10-1473.sub	RE15-10-8058	1.00000	949033	AR1268 RE TO CONFIRM
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b027f2701.d	245803008	sample	05-FEB-2010	11:50	10-1473.sub	RE15-10-8059	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b012f1201-2.d	1202033246	mb	05-FEB-2010	08:52	10-1473.sub	PBLK01	1.00000	949033	
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b013f1301-2.d	1202033247	lcs	05-FEB-2010	09:02	10-1473.sub	PBLK01LCS	1.00000	949033	

Back QC Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b012b1201-2.d	1202033246	mb	05-FEB-2010	08:52	10-1473.sub	PBLK01	1.00000	949033	
<input type="checkbox"/>	N	/chem/ecd1a.i/020510.b013b1301-2.d	1202033247	lcs	05-FEB-2010	09:02	10-1473.sub	PBLK01LCS	1.00000	949033	

# SAMPLE DATA SUMMARY

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

SDG Number: 10-1473  
Lab Sample ID: 245803007

Date Collected: 01/26/2010 12:00  
Date Received: 01/29/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD1A.I  
Analyst: YS1  
Aliquot: 30.04 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 35.9  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	5.19	ug/kg	1.73	5.19	1
11104-28-2	Aroclor-1221	U	5.19	ug/kg	1.73	5.19	1
11141-16-5	Aroclor-1232	U	5.19	ug/kg	1.73	5.19	1
53469-21-9	Aroclor-1242	U	5.19	ug/kg	1.73	5.19	1
12672-29-6	Aroclor-1248	U	5.19	ug/kg	1.73	5.19	1
11097-69-1	Aroclor-1254	JP	4.70	ug/kg	1.73	5.19	1
11096-82-5	Aroclor-1260		14.6	ug/kg	1.73	5.19	2
11100-14-4	Aroclor-1268		55.6	ug/kg	1.73	5.19	2



## PCB

Page 1 of 1

## Certificate of Analysis

## Sample Summary

SDG Number: 10-1473

Lab Sample ID: 245803008

Date Collected: 01/26/2010 12:00

Date Received: 01/29/2010 08:45

Matrix: R

%Moisture: 7.3

Client: LANL010

Project: LANL01004

Method: SW846 8082

SOP Ref: GL-OA-E-040

Inst: ECD1A.I

Dilution: 1

Client ID: RE15-10-8059

Batch ID: 949033

Run Date: 02/05/2010 11:50

Prep Date: 02/04/2010 20:32

Analyst: YS1

Inj. Vol: 1 uL

Aliquot: 30.02 g

Final Volume: 1 mL

Data File: 027f2701.d

Column: 1 CLP1

Level: LOW

2 CLP2

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.59	ug/kg	1.20	3.59	1
11104-28-2	Aroclor-1221	U	3.59	ug/kg	1.20	3.59	1
11141-16-5	Aroclor-1232	U	3.59	ug/kg	1.20	3.59	1
53469-21-9	Aroclor-1242	U	3.59	ug/kg	1.20	3.59	1
12672-29-6	Aroclor-1248	U	3.59	ug/kg	1.20	3.59	1
11097-69-1	Aroclor-1254	U	3.59	ug/kg	1.20	3.59	1
11096-82-5	Aroclor-1260	U	3.59	ug/kg	1.20	3.59	1

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

Page 1 of 1

**SDG Number:** 10-1473  
**Lab Sample ID:** 245803006

**Date Collected:** 01/26/2010 12:00  
**Date Received:** 01/29/2010 08:45  
**Client:** LANL010  
**Method:** SW846 8082  
**Inst:** ECD1A.I  
**Analyst:** YS1  
**Aliquot:** 30.11 g  
**Column:** 1 CLP1  
2 CLP2

**Matrix:** R  
**%Moisture:** 14.6  
**Project:** LANL01004  
**SOP Ref:** GL-OA-E-040  
**Dilution:** 1  
**Inj. Vol:** 1 uL  
**Final Volume:** 1 mL  
**Level:** LOW

**Client ID:** RE15-10-8060  
**Batch ID:** 949033  
**Run Date:** 02/05/2010 11:25  
**Prep Date:** 02/04/2010 20:32  
**Data File:** 025f2501.d  
025b2501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.89	ug/kg	1.29	3.89	1
11104-28-2	Aroclor-1221	U	3.89	ug/kg	1.29	3.89	1
11141-16-5	Aroclor-1232	U	3.89	ug/kg	1.29	3.89	1
53469-21-9	Aroclor-1242	U	3.89	ug/kg	1.29	3.89	1
12672-29-6	Aroclor-1248	U	3.89	ug/kg	1.29	3.89	1
11097-69-1	Aroclor-1254	P	74.1	ug/kg	1.29	3.89	1
11096-82-5	Aroclor-1260		47.0	ug/kg	1.29	3.89	2
11100-14-4	Aroclor-1268		35.1	ug/kg	1.29	3.89	2

# QUALITY CONTROL SUMMARY

PCB  
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1473

Matrix Type: SOLID

CAP Column (1) : CLP1

CAP Column (2) : CLP2

Sample ID	Client ID	4CMX 1	4CMX 2	DCB 1	DCB 2
		%REC #	%REC #	%REC #	%REC #
1202033246	MB for batch 949031	61	61	56	67
1202033247	LCS for batch 949031	63	62	61	67
245803006	RE15-10-8060	66	64	90	98
245803007	RE15-10-8058	56	54	70	71
245803008	RE15-10-8059	44	44	40	44

**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: 10-1473****Sample Type: Laboratory Control Sample****Client ID: LCS for batch 949031****Matrix: SOIL****Lab Sample ID:1202033247****Instrument: ECD1A.I****Analysis Date: 02/05/2010 09:02****Dilution: 1****Analyst: YS1****Prep Batch ID 949031****Inj. Vol: 1 uL****Batch ID: 949033**

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	20.2	61	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	23.7	71	45-118

## Method Blank Summary

Page 1 of 1

SDG Number:	10-1473	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 949031	Instrument ID:	ECD1AJ_2	Data File:	012b1201-1.d
Lab Sample ID:	1202033246		ECD1AJ_1		012f1201-1.d
Column:	CLP2	Prep Date:	02/04/2010 20:32	Analyzed:	02/05/10 08:52
	CLP1	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 949031	1202033247	013f1301-1.d 013b1301-1.d	02/05/10	0902
02 RE15-10-8060	245803006	025f2501.d 025b2501.d	02/05/10	1125
03 RE15-10-8058	245803007	026f2601.d 026b2601.d	02/05/10	1137
04 RE15-10-8059	245803008	027f2701.d 027b2701.d	02/05/10	1150

# SAMPLE DATA

## PCB

Page 1 of 1

Certificate of Analysis  
Sample SummarySDG Number: 10-1473  
Lab Sample ID: 245803007Date Collected: 01/26/2010 12:00  
Date Received: 01/29/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD1A.I  
Analyst: YSI  
Aliquot: 30.04 g  
Column: 1 CLP1  
2 CLP2Matrix: R  
%Moisture: 35.9  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	5.19	ug/kg	1.73	5.19	1
11104-28-2	Aroclor-1221	U	5.19	ug/kg	1.73	5.19	1
11141-16-5	Aroclor-1232	U	5.19	ug/kg	1.73	5.19	1
53469-21-9	Aroclor-1242	U	5.19	ug/kg	1.73	5.19	1
12672-29-6	Aroclor-1248	U	5.19	ug/kg	1.73	5.19	1
11097-69-1	Aroclor-1254	JP	4.70	ug/kg	1.73	5.19	1
11096-82-5	Aroclor-1260		14.6	ug/kg	1.73	5.19	2
11100-14-4	Aroclor-1268		55.6	ug/kg	1.73	5.19	2



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/026f2601.d  
Lab Smp Id: 245803007 Client Smp ID: RE15-10-8058  
Inj Date : 05-FEB-2010 11:37  
Operator : YS1 Inst ID: ecdla.i  
Smp Info : |245803007|1|  
Misc Info : |ECD82P\_1S|949033|SVA|LANL|SOIL|RE15-10-8058|||  
Comment :  
Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m  
Meth Date : 08-Feb-2010 09:06 yip00818 Quant Type: ESTD  
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d  
Als bottle: 26  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1470.sub  
Target Version: 3.50 Sample Matrix: Soil  
Processing Host: hpcpl

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	30.04000	Weight of sample extracted (g)
M	35.88220	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
1.965	1.965	0.000	44459041 111.524	5.8	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.274	5.275	-0.001	44968544 139.085	7.2	80.00- 120.00	100.00
6 Aroclor-1254			CAS #: 11097-69-1			
3.265	3.266	-0.001	749395 60.0213	3.1	80.00- 120.00	100.00(a)
3.420	3.421	-0.001	966384 57.7914	3.0	118.05- 158.05	128.96
3.652	3.655	-0.003	1455689 70.2759	3.6	160.50- 200.50	194.25
3.816	3.818	-0.002	1868670 119.068	6.2	116.88- 156.88	249.36

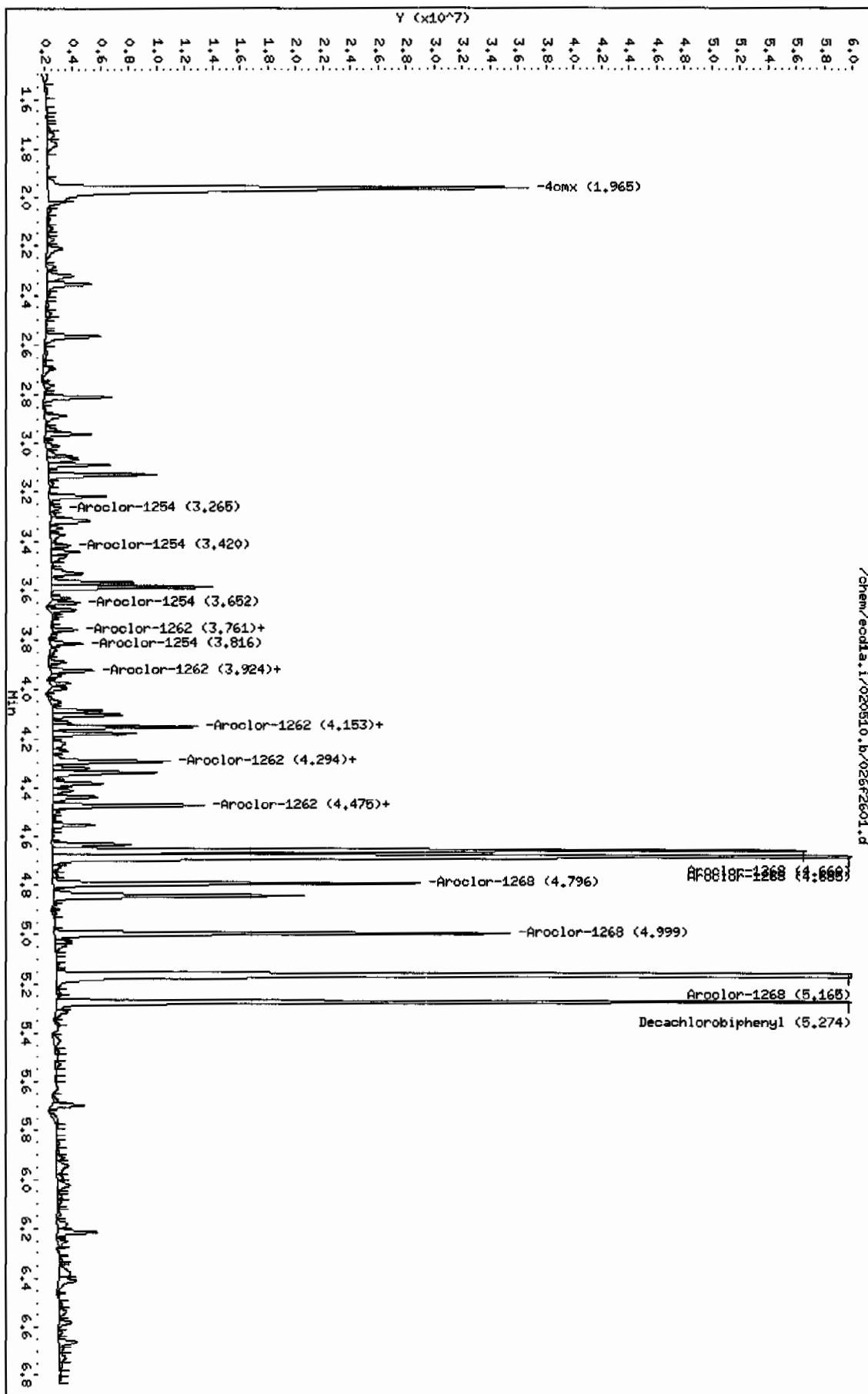
CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
			RESPONSE ( ug/L)	(ug/Kg)		
==	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)						
3.924	3.926	-0.002	2214035	145.924	7.6 110.22- 150.22	295.44
Average of Peak Concentrations =				4.7		
-----						
7 Aroclor-1260				CAS #: 11096-82-5		
3.761	3.762	-0.001	1271346	72.0859	3.7 80.00- 120.00	100.00
3.924	3.925	-0.001	2214035	83.0408	4.3 132.59- 172.59	174.15
4.153	4.155	-0.002	7503237	471.260	24.5 71.05- 111.05	590.18
4.294	4.297	-0.003	6721588	406.122	21.1 74.81- 114.81	528.70
4.475	4.477	-0.002	7851802	211.437	11.0 197.56- 237.56	617.60
Average of Peak Concentrations =				12.9		
-----						
9 Aroclor-1268				CAS #: 11100-14-4		
4.660	4.663	-0.003	39891690	760.059	39.5 80.00- 120.00	100.00
4.685	4.686	-0.001	63388136	1317.35	68.4 74.24- 114.24	158.90
4.796	4.799	-0.003	19409428	524.189	27.2 54.84- 94.84	48.66
4.999	5.001	-0.002	24307930	1491.81	77.4 17.12- 57.12	60.93
5.165	5.167	-0.002	134901870	1245.89	64.7 228.13- 268.13	338.17
Average of Peak Concentrations =				55.4		
-----						

# QC Flag Legend

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

Data File: /chem/ecda.i/020510.b/026f2601.d  
 Date : 05-FEB-2010 11:37  
 Client ID: REL5-10-8058  
 Sample Info: 1245803007111  
 Volume Injected (uL): 1.0  
 Column phase: CLP1

Instrument: ecda.i  
 Operator: YSL  
 Column diameter: 0.25



Data File: /chem/ecdla.i/020510.b/026b2601.d  
Report Date: 12-Feb-2010 12:58

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/026b2601.d

Lab Smp Id: 245803007

Client Smp ID: RE15-10-8058

Inj Date : 05-FEB-2010 11:37

Operator : YS1

Inst ID: ecdla.i

Smp Info : |245803007|1|

Misc Info : |ECD82P\_1S|949033|SVA|LANL|SOIL|RE15-10-8058|||

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 08-Feb-2010 09:06 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 26

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1473.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	30.04000	Weight of sample extracted (g)
M	35.88220	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

\$ 11 4cmx

CAS #: 877-09-8

2.296	2.296	0.000	31230371 108.724	5.6	80.00- 120.00	100.00
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\$ 12 Decachlorobiphenyl

CAS #: 2051-24-3

5.941	5.942	-0.001	30888607 141.933	7.4	80.00- 120.00	100.00
-------	-------	--------	------------------	-----	---------------	--------

6 Aroclor-1254

CAS #: 11097-69-1

3.402	3.401	0.001	204615 31.7959	1.6	80.00- 120.00	100.00 (a)
3.822	3.824	-0.002	524201 45.3488	2.4	160.72- 200.72	256.19
3.939	3.940	-0.001	946752 76.1588	4.0	179.44- 219.44	462.70
4.216	4.216	0.000	561676 33.2745	1.7	255.74- 295.74	274.50

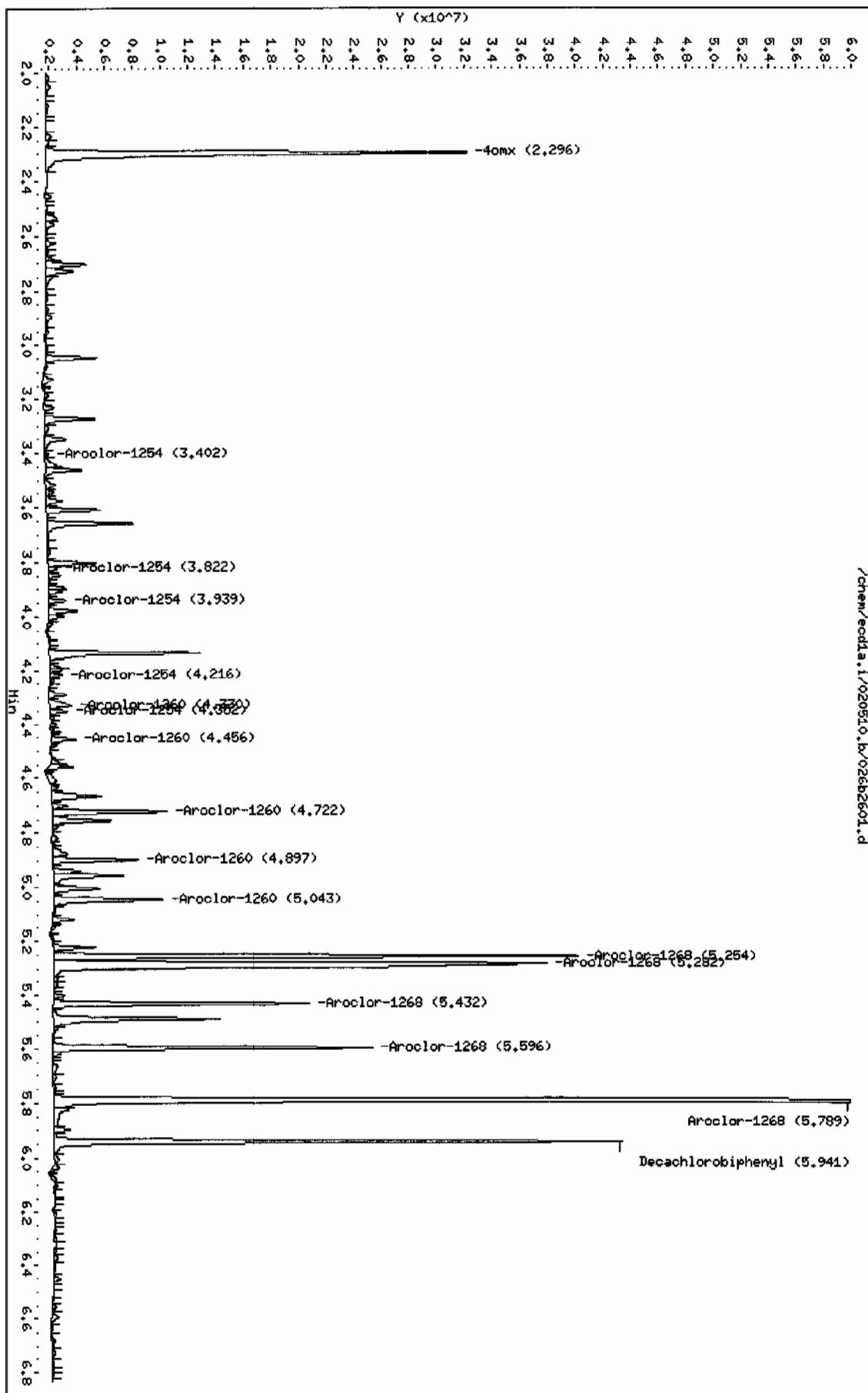
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)								
4.352	4.353	-0.001	868615	69.8498	3.6	176.59-	216.59	424.51
Average of Peak Concentrations =					2.7			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.330	4.332	-0.002	1791848	141.712	7.4	80.00-	120.00	100.00
4.456	4.457	-0.001	1292810	84.9410	4.4	101.42-	141.42	72.15
4.722	4.722	0.000	6214534	533.412	27.7	72.62-	112.62	346.82
4.897	4.896	0.001	4674230	387.790	20.1	76.48-	116.48	260.86
5.043	5.043	0.000	6810004	261.236	13.6	194.90-	234.90	380.05
Average of Peak Concentrations =					14.6			
-----								
9 Aroclor-1268					CAS #: 11100-14-4			
5.254	5.255	-0.001	27430949	756.600	39.3	80.00-	120.00	100.00 (H)
5.282	5.283	-0.001	42760921	1273.31	66.1	75.81-	115.81	155.89
5.432	5.433	-0.001	13536123	520.973	27.0	55.31-	95.31	49.35
5.596	5.598	-0.002	16916570	1490.88	77.4	17.23-	57.23	61.67
5.789	5.790	-0.001	88008066	1312.06	68.1	217.43-	257.43	320.83
Average of Peak Concentrations =					55.6			

# QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation (BLOQ).
- H - Operator selected an alternate compound hit.

Data File: /chem/ecdt1a.i/020510.b/026b2601.d  
Date : 05-FEB-2010 11:37  
Client ID: RE15-10-8058  
Sample Info: 124580300711  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecdt1a.i  
Operator: VSL  
Column diameter: 0.25



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

SDG Number: 10-1473  
Lab Sample ID: 245803008

Client ID: RE15-10-8059  
Batch ID: 949033  
Run Date: 02/05/2010 11:50  
Prep Date: 02/04/2010 20:32  
Data File: 027f2701.d  
027b2701.d

Date Collected: 01/26/2010 12:00  
Date Received: 01/29/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD1A.I  
Analyst: YS1  
Aliquot: 30.02 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 7.3  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.59	ug/kg	1.20	3.59	1
11104-28-2	Aroclor-1221	U	3.59	ug/kg	1.20	3.59	1
11141-16-5	Aroclor-1232	U	3.59	ug/kg	1.20	3.59	1
53469-21-9	Aroclor-1242	U	3.59	ug/kg	1.20	3.59	1
12672-29-6	Aroclor-1248	U	3.59	ug/kg	1.20	3.59	1
11097-69-1	Aroclor-1254	U	3.59	ug/kg	1.20	3.59	1
11096-82-5	Aroclor-1260	U	3.59	ug/kg	1.20	3.59	1

Data File: /chem/ecdl1a.i/020510.b/027f2701.d  
Report Date: 05-Feb-2010 12:21

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/027f2701.d

Lab Smp Id: 245803008

Client Smp ID: RE15-10-8059

Inj Date : 05-FEB-2010 11:50

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |245803008|1|

Misc Info : |ECD82P\_1S|949033|SVA|LANL|SOIL|RE15-10-8059|||

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 11:31 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 27

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1473.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	7.27680	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.965	1.965	0.000	35130782 88.1246	3.2	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.274	5.275	-0.001	26063836 80.6141	2.9	80.00- 120.00	100.00	



Data File: /chem/ecdl.a.i/020510.b/0272701.d

Date : 05-FEB-2010 11:50

Client ID: RE15-10-8059

Sample Info: 124580300811

Volume Injected (uL): 1.0

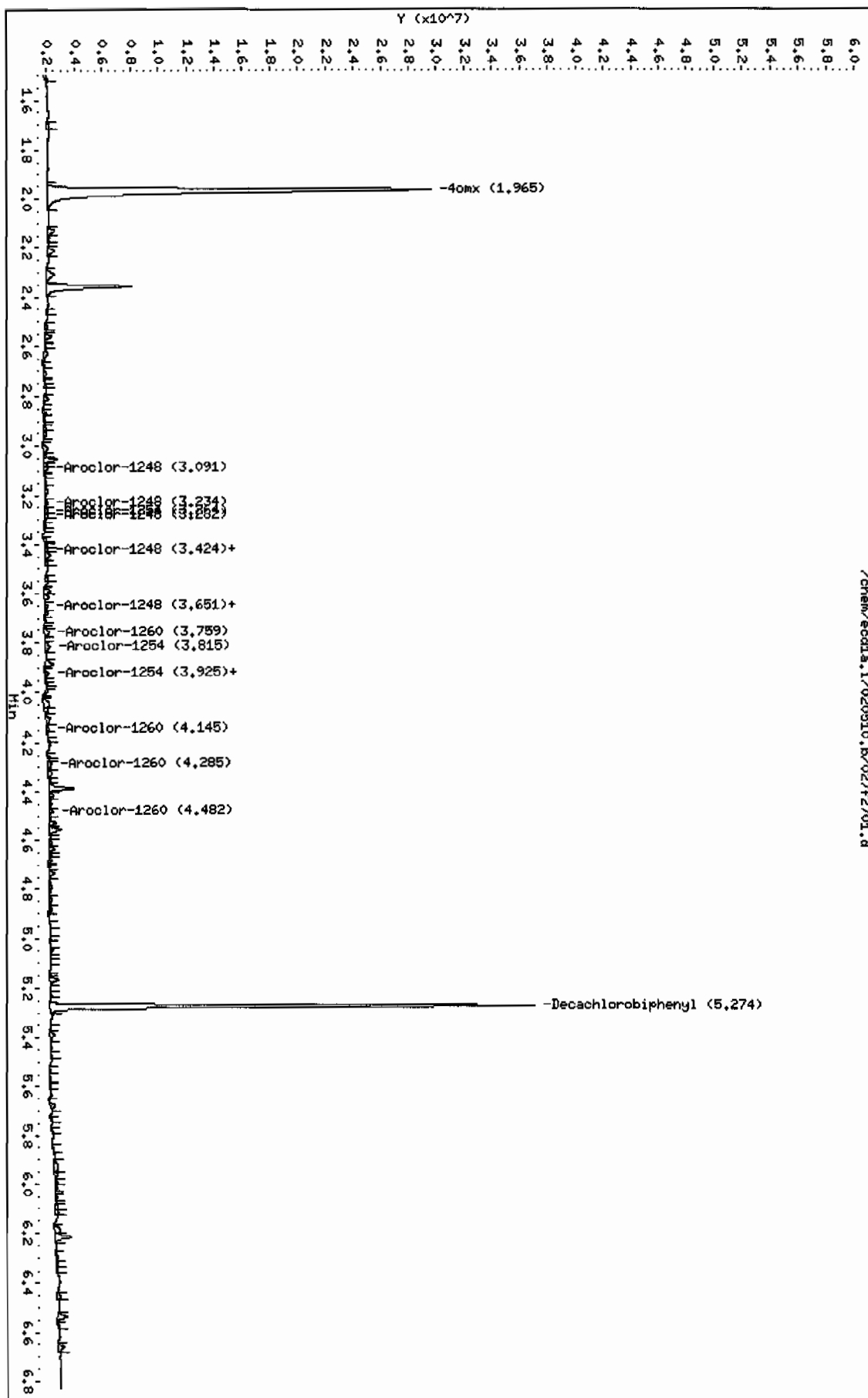
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/020510.b/0272701.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/027b2701.d

Lab Smp Id: 245803008

Client Smp ID: RE15-10-8059

Inj Date : 05-FEB-2010 11:50

Operator : YS1

Inst ID: ecdla.i

Smp Info : |245803008|1|

Misc Info : |ECD82P\_1S|949033|SVA|LANL|SOIL|RE15-10-8059|||

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 11:30 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 27

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1473.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	7.27680	% Moisture

Cpnd Variable

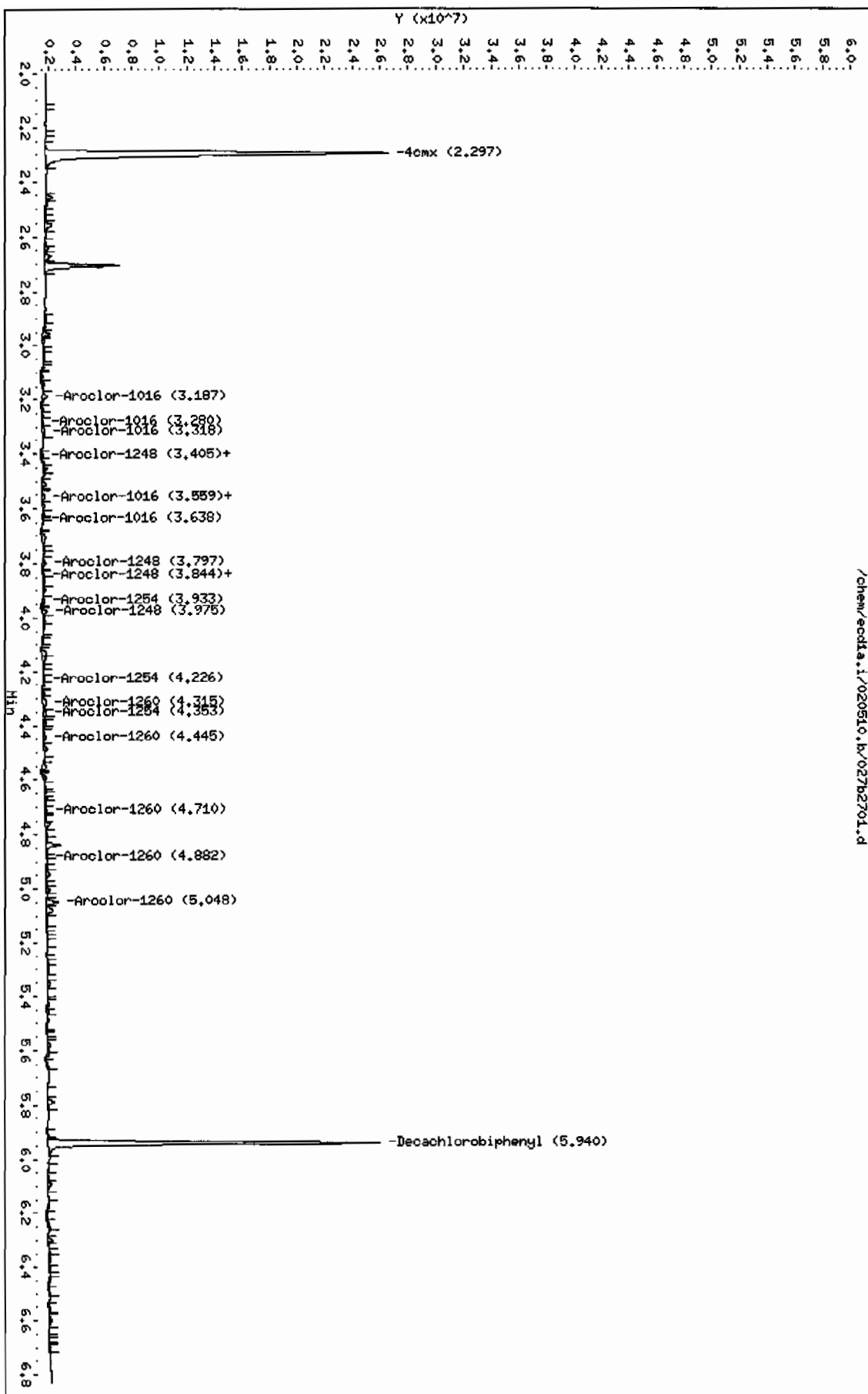
Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
-----						
\$ 11 4cmx				CAS #: 877-09-8		
2.297	2.296	0.001	25326641 88.1713	3.2	80.00- 120.00	100.00
-----						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.940	5.942	-0.002	19131483 87.9090	3.2	80.00- 120.00	100.00
-----						

Data File: /chem/ecdt.a.i/020510.b/027b2701.d  
Date: 05-FEB-2010 11:50  
Client ID: REL5-10-6059  
Sample Info: 1245803008111  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecdt.a.i  
Operator: YSL  
Column diameter: 0.25

/chem/ecdt.a.i/020510.b/027b2701.d



## PCB

Page 1 of 1

Certificate of Analysis  
Sample SummarySDG Number: 10-1473  
Lab Sample ID: 245803006Date Collected: 01/26/2010 12:00  
Date Received: 01/29/2010 08:45Matrix: R  
%Moisture: 14.6

Client ID: RE15-10-8060

Client: LANL010

Project: LANL01004

Batch ID: 949033

Method: SW846 8082

SOP Ref: GL-OA-E-040

Run Date: 02/05/2010 11:25

Inst: ECD1A.I

Dilution: 1

Prep Date: 02/04/2010 20:32

Analyst: YS1

Inj. Vol: 1 uL

Data File: 025f2501.d

Aliquot: 30.11 g

Final Volume: 1 mL

025b2501.d

Column: 1 CLP1

Level: LOW

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.89	ug/kg	1.29	3.89	1
11104-28-2	Aroclor-1221	U	3.89	ug/kg	1.29	3.89	1
11141-16-5	Aroclor-1232	U	3.89	ug/kg	1.29	3.89	1
53469-21-9	Aroclor-1242	U	3.89	ug/kg	1.29	3.89	1
12672-29-6	Aroclor-1248	U	3.89	ug/kg	1.29	3.89	1
11097-69-1	Aroclor-1254	P	74.1	ug/kg	1.29	3.89	1
11096-82-5	Aroclor-1260		47.0	ug/kg	1.29	3.89	2
11100-14-4	Aroclor-1268		35.1	ug/kg	1.29	3.89	2

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/025f2501.d

Lab Smp Id: 245803006

Client Smp ID: RE15-10-8060

Inj Date : 05-FEB-2010 11:25

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |245803006|1|

Misc Info : |ECD82P\_1S|949033|SVA|LANL|SOIL|RE15-10-8060|

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 08-Feb-2010 09:06 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 25

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1473.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	30.11000	Weight of sample extracted (g)
M	14.59010	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx CAS #: 877-09-8  
1.964 1.965 -0.001 52405428 131.458 5.1 80.00- 120.00 100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3  
5.274 5.275 -0.001 58197843 180.003 7.0 80.00- 120.00 100.00

6 Aroclor-1254 CAS #: 11097-69-1  
3.264 3.266 -0.002 20205511 1618.32 62.9 80.00- 120.00 100.00 (M)  
3.419 3.421 -0.002 33610164 2009.94 78.2 118.05- 158.05 166.34  
3.655 3.655 0.000 39306350 1897.58 73.8 160.50- 200.50 194.53  
3.815 3.818 -0.003 19590280 1248.25 48.5 116.88- 156.88 96.96

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	( ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
6 Aroclor-1254 (continued)								
3.923	3.926	-0.003	41601977	2741.93	107	110.22-	150.22	205.89
Average of Peak Concentrations =					74.1			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
3.760	3.762	-0.002	25388415	1439.53	56.0	80.00-	120.00	100.00 (M)
3.923	3.925	-0.002	41601977	1560.35	60.7	132.59-	172.59	163.86
4.154	4.155	-0.001	15861532	996.225	38.7	71.05-	111.05	62.48
4.295	4.297	-0.002	19250270	1163.11	45.2	74.81-	114.81	75.82
4.475	4.477	-0.002	22469715	605.076	23.5	197.56-	237.56	88.50
Average of Peak Concentrations =					44.8			
-----								
9 Aroclor-1268					CAS #: 11100-14-4			
4.660	4.663	-0.003	39301011	748.805	29.1	80.00-	120.00	100.00 (H)
4.683	4.686	-0.003	37402229	777.301	30.2	74.24-	114.24	95.17
4.795	4.799	-0.004	25113207	678.230	26.4	54.84-	94.84	63.90
4.998	5.001	-0.003	18020809	1105.96	43.0	17.12-	57.12	45.85
5.164	5.167	-0.003	110586749	1021.33	39.7	228.13-	268.13	281.38
Average of Peak Concentrations =					33.7			

#### QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: /chem/eod1a.i/020510.b/025F2501.d

Date: 05-FEB-2010 11:25

Client ID: REIS-10-8060

Sample Info: 124580306111

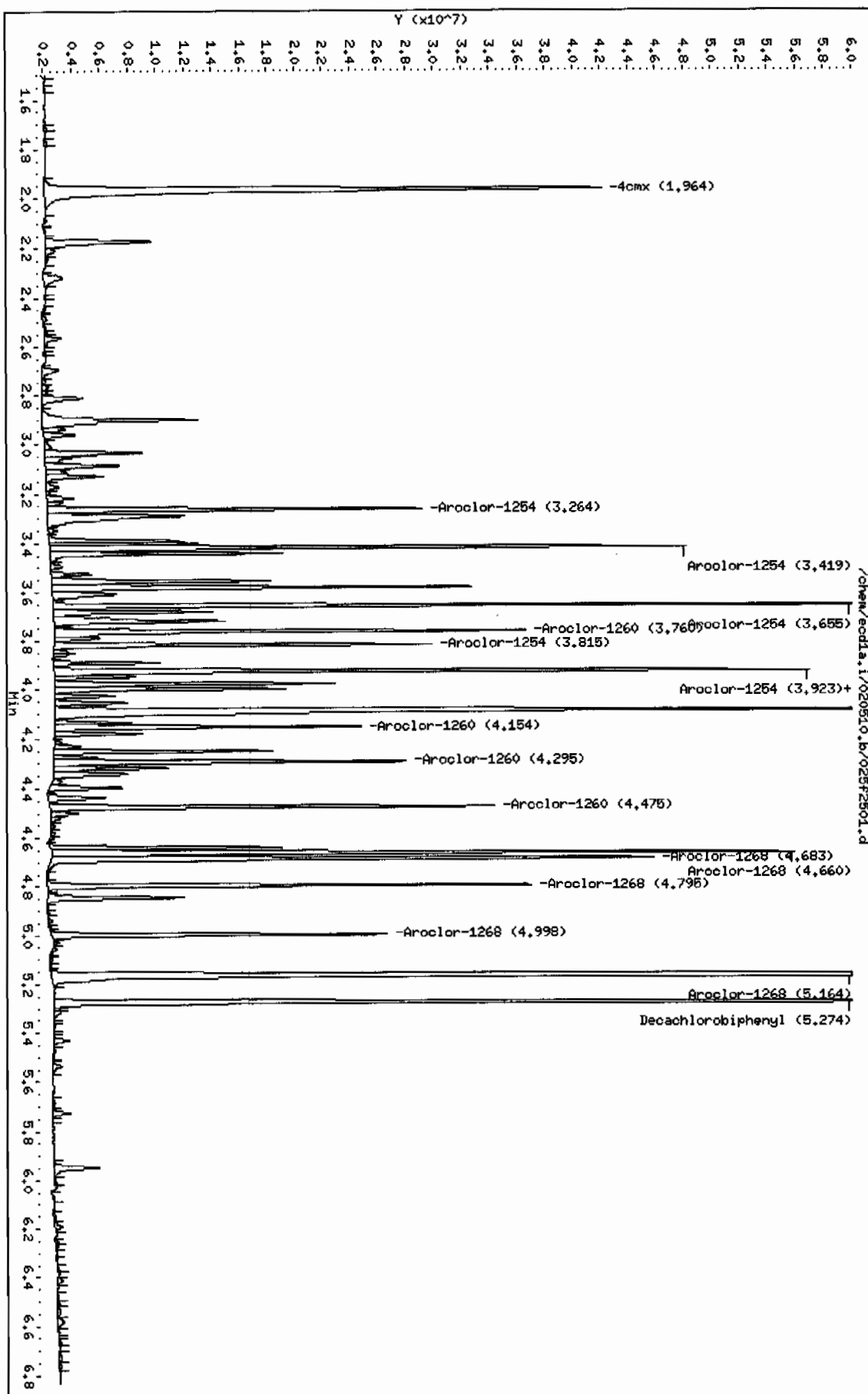
Volume Injected (uL): 1.0

Column phase: CLP1

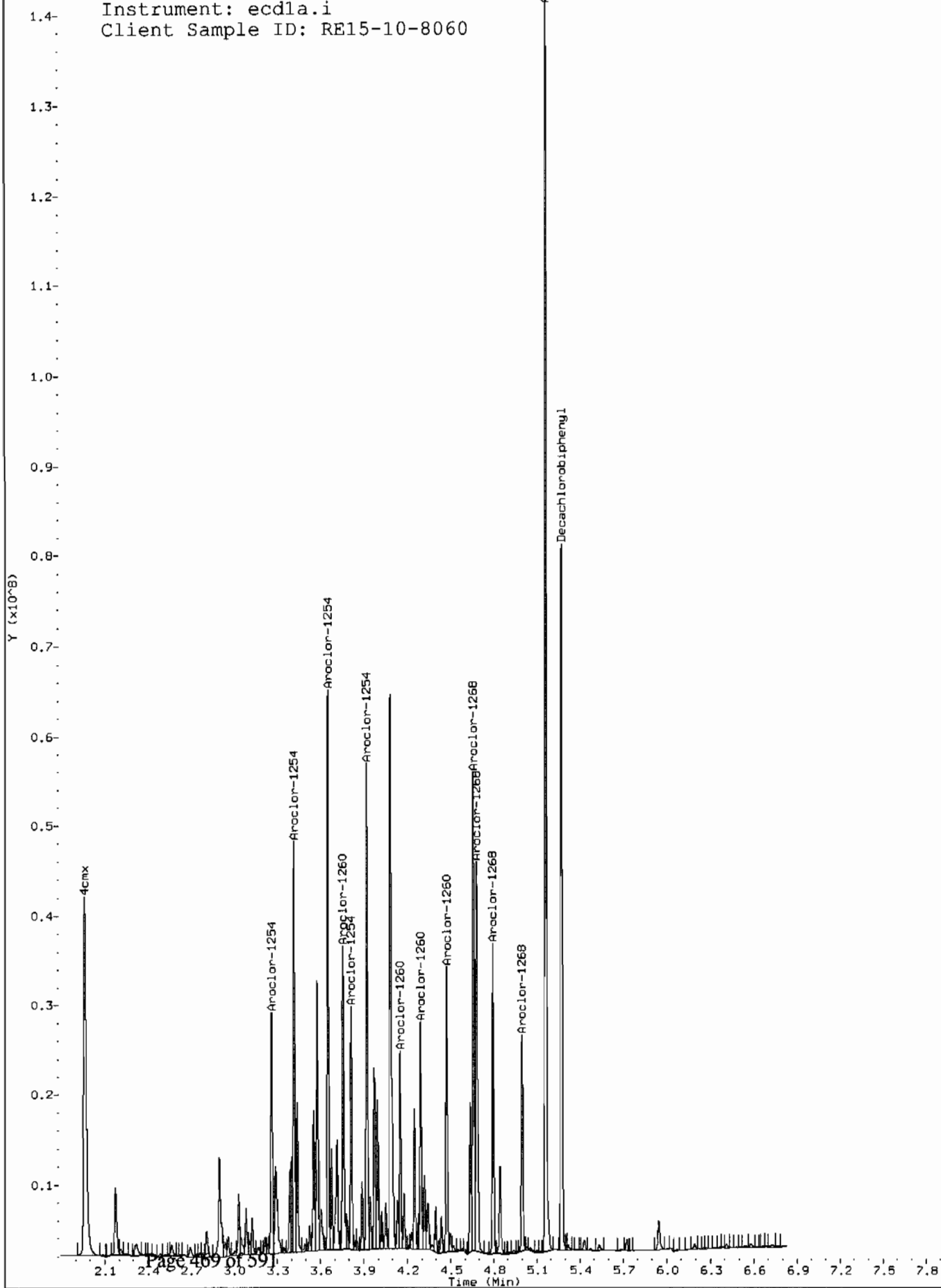
Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25

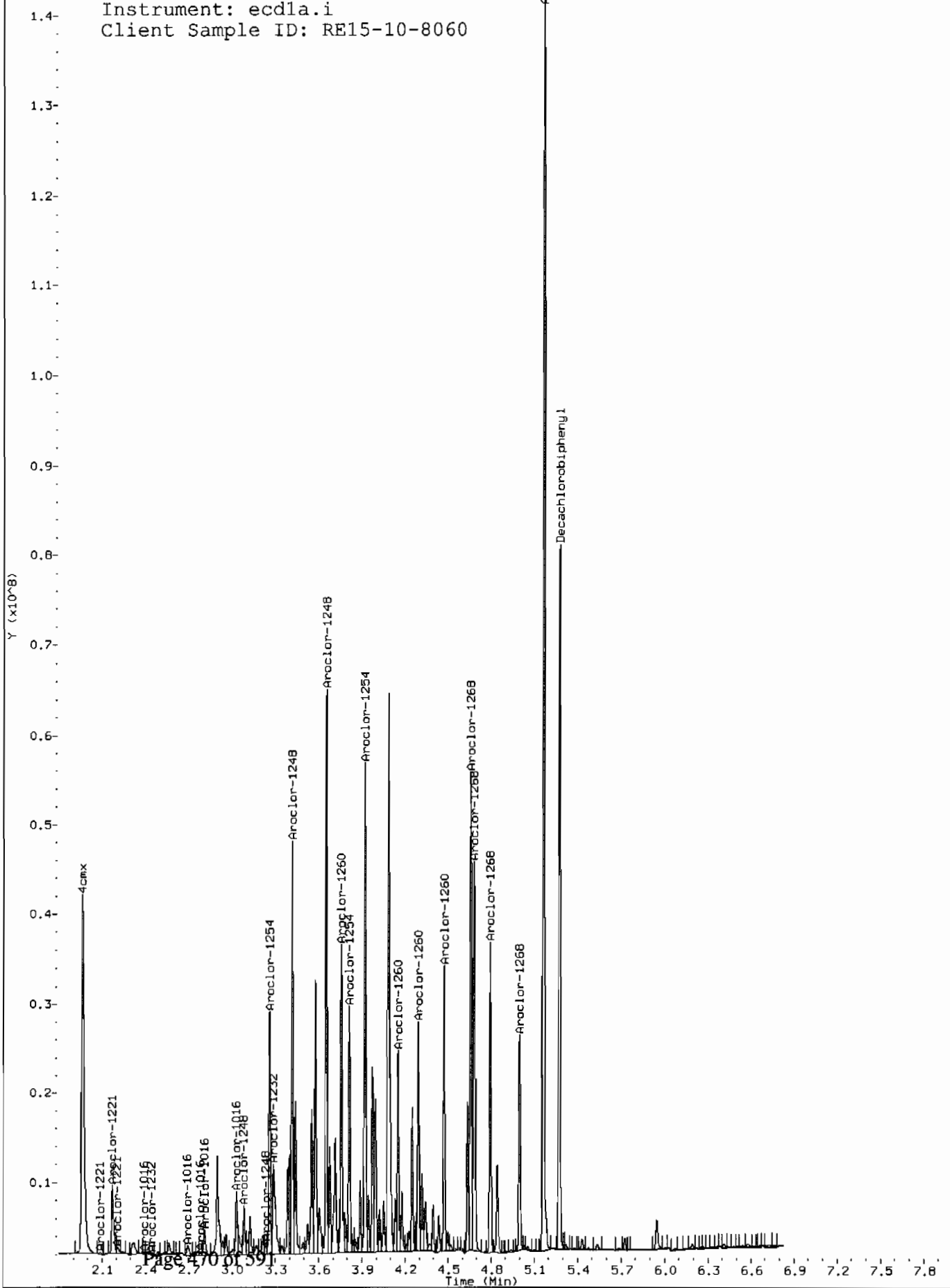


Comment: Manually Integrated  
Data File: /chem/ecdl1.i/020510.b/0205f2501.d  
Operator: YS1  
Injection Date: 05-FEB-2010 11:25  
Instrument: ecd1a.i  
Client Sample ID: RE15-10-8060





Comment: Before manual integration  
Data File: /chem/ecdla.i/020510.b/or g-025f2501.d  
Operator: YS1  
Injection Date: 05-FEB-2010 11:25  
Instrument: ecdla.i  
Client Sample ID: RE15-10-8060



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/025b2501.d

Lab Smp Id: 245803006

Client Smp ID: RE15-10-8060

Inj Date : 05-FEB-2010 11:25

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |245803006|1|

Misc Info : |ECD82P\_1S|949033|SVA|LANL|SOIL|RE15-10-8060|||

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 08-Feb-2010 09:06 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 25

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1473.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	30.11000	Weight of sample extracted (g)
M	14.59010	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx						
			CAS #: 877-09-8			
2.295	2.296	-0.001	36825471	128.203	5.0 80.00~ 120.00	100.00
\$ 12 Decachlorobiphenyl						
			CAS #: 2051-24-3			
5.940	5.942	-0.002	42472854	195.162	7.6 80.00~ 120.00	100.00
6 Aroclor-1254						
			CAS #: 11097-69-1			
3.400	3.401	-0.001	5459490	848.372	33.0 80.00~ 120.00	100.00 (M)
3.821	3.824	-0.003	15839525	1370.28	53.3 160.72~ 200.72	290.13
3.938	3.940	-0.002	22491416	1809.26	70.4 179.44~ 219.44	411.97
4.221	4.216	0.005	9139169	541.418	21.0 255.74~ 295.74	364.86
4.350	4.353	-0.003	12414372	998.303	38.8 176.59~ 216.59	227.39
Average of Peak Concentrations =				43.3		

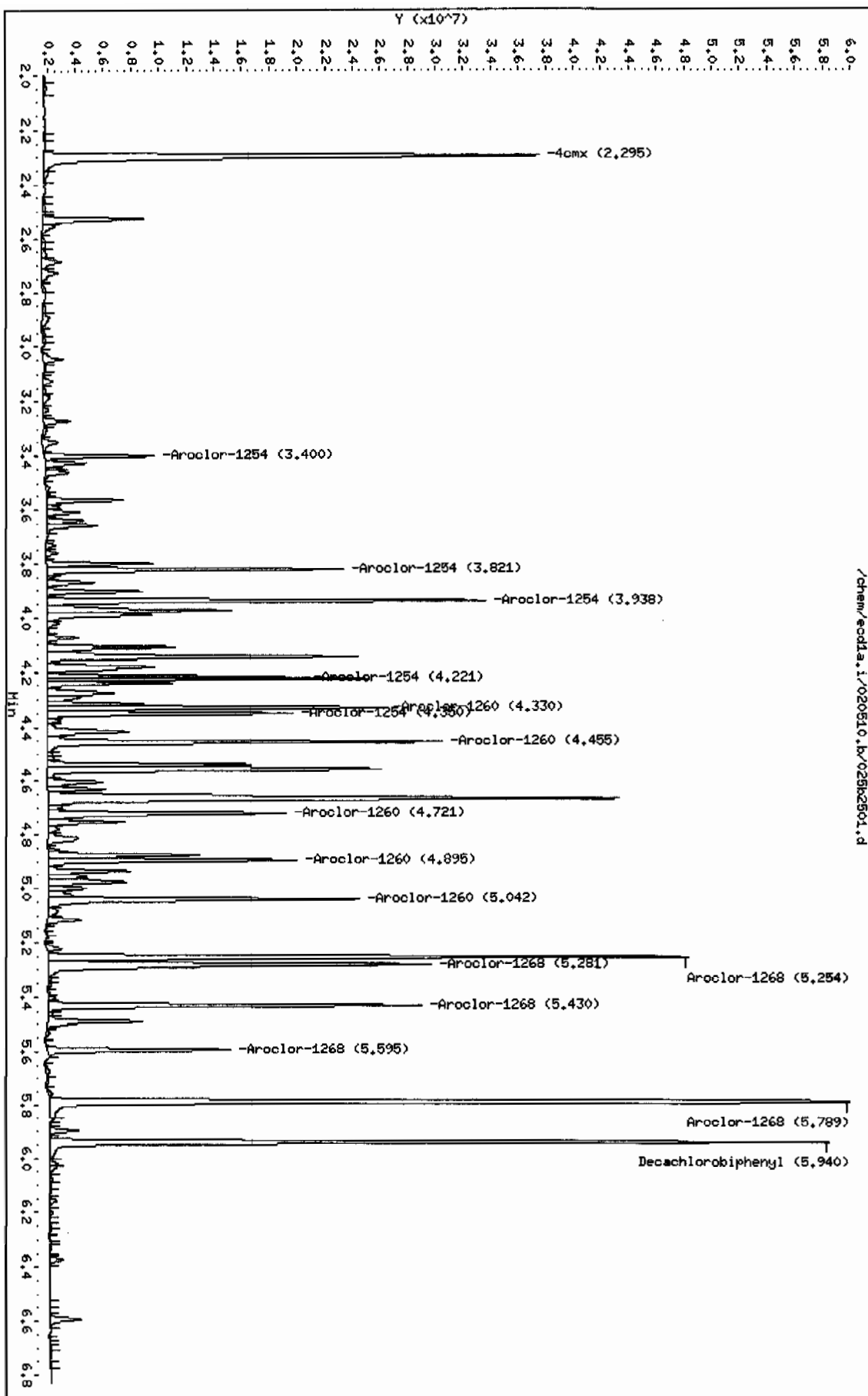
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	( ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5			
4.330	4.332	-0.002	19397367	1534.08	59.6	80.00- 120.00	100.00 (M)	
4.455	4.457	-0.002	21339276	1402.05	54.5	101.42- 141.42	110.01	
4.721	4.722	-0.001	14420716	1237.77	48.1	72.62- 112.62	74.34	
4.895	4.896	-0.001	14293705	1185.85	46.1	76.48- 116.48	73.69	
5.042	5.043	-0.001	17834182	684.131	26.6	194.90- 234.90	91.94	
Average of Peak Concentrations =					47.0			
-----								
9 Aroclor-1268					CAS #: 11100-14-4			
5.254	5.255	-0.001	36427416	1004.74	39.1	80.00- 120.00	100.00 (H)	
5.281	5.283	-0.002	25625982	763.074	29.7	75.81- 115.81	70.35	
5.430	5.433	-0.003	19927713	766.970	29.8	55.31- 95.31	54.71	
5.595	5.598	-0.003	9734216	857.892	33.4	17.23- 57.23	26.72	
5.789	5.790	-0.001	75028523	1118.56	43.5	217.43- 257.43	205.97	
Average of Peak Concentrations =					35.1			

#### QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: /chem/ecdl1a.i/020510.b/025b2501.d  
 Date : 05-FEB-2010 11:25  
 Client ID: RELS-10-8060  
 Sample Infol: 124580306111  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

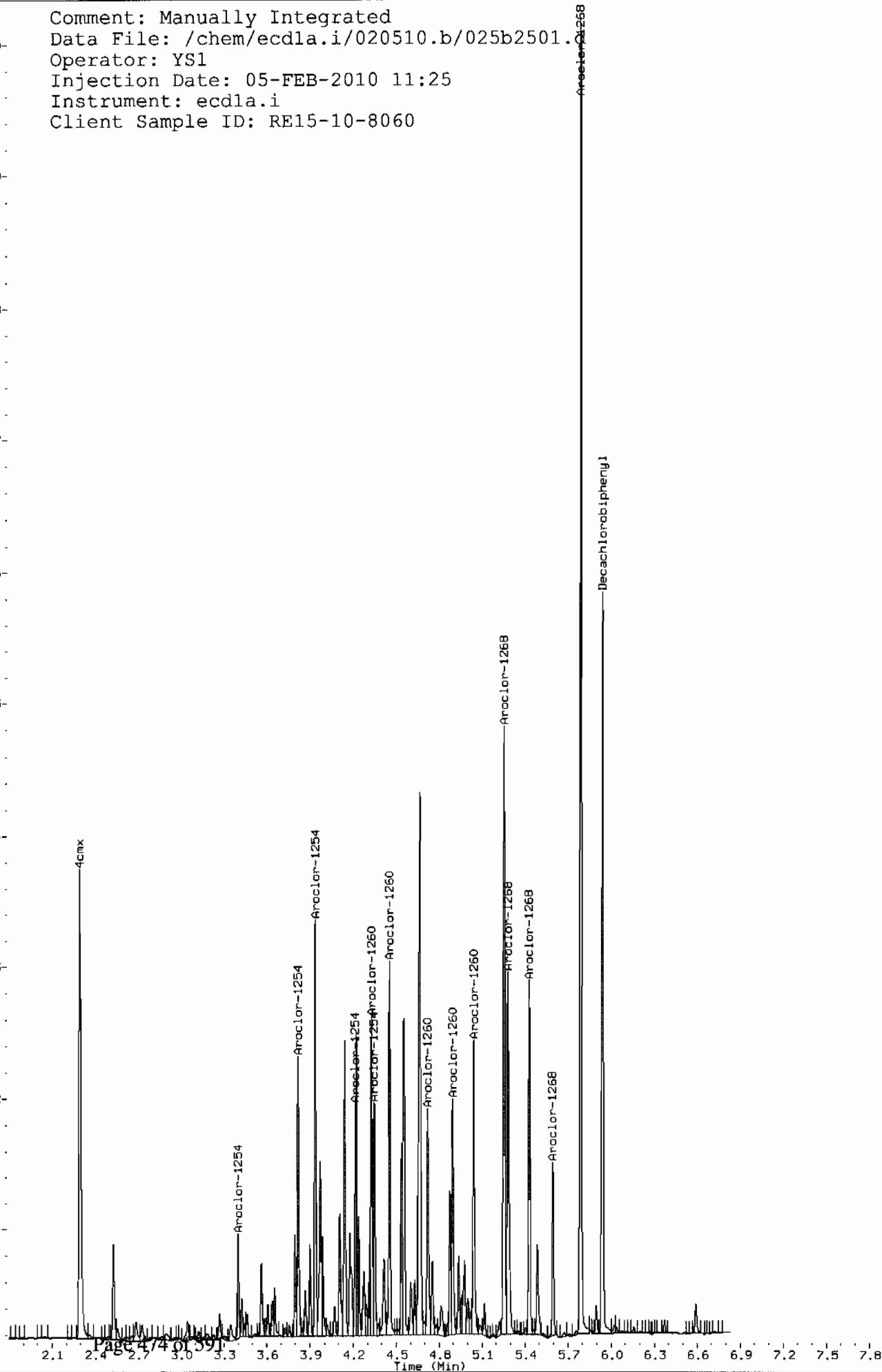
Instrument: ecdl1a.i  
 Operator: YSL  
 Column diameter: 0.25



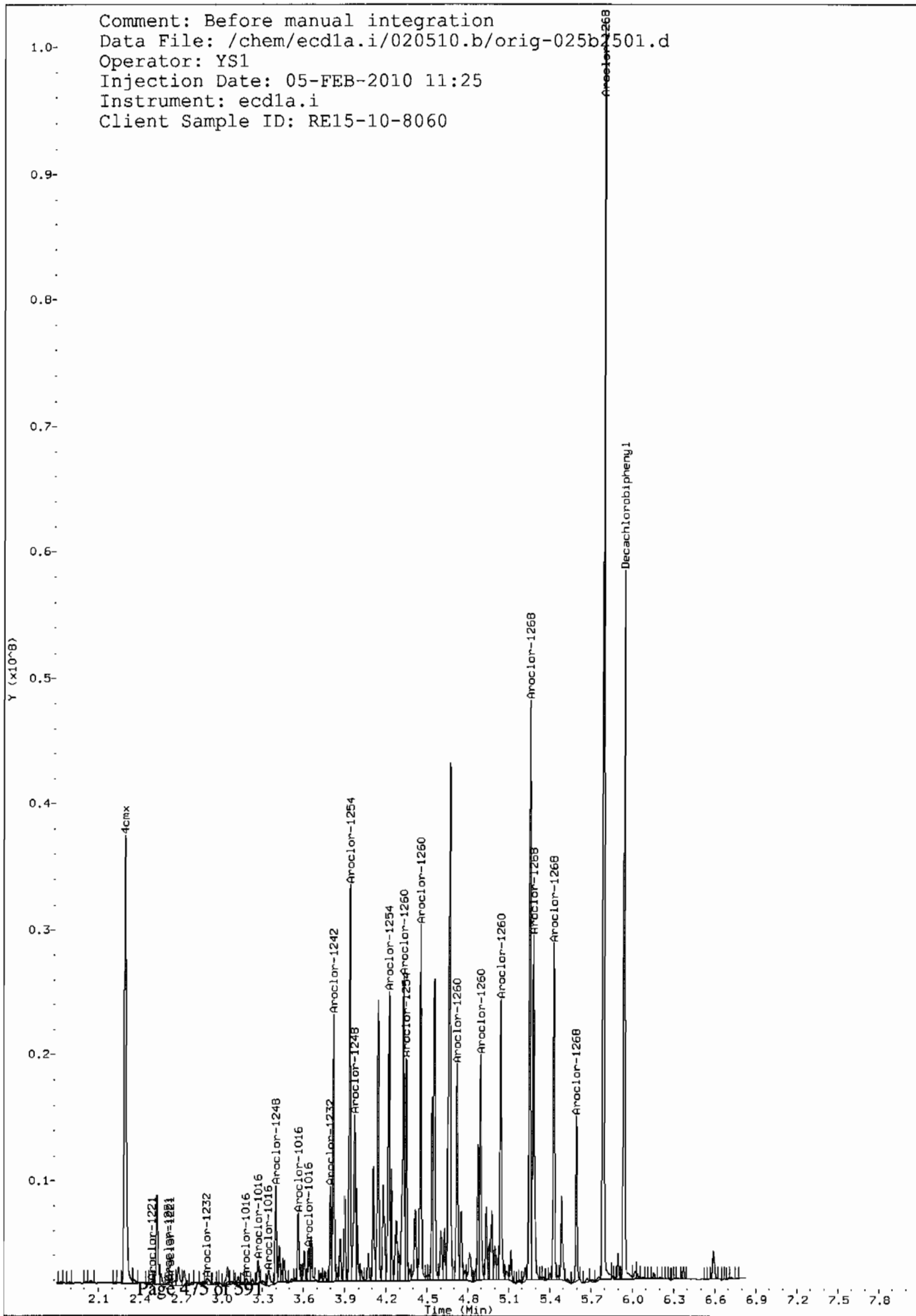
Comment: Manually Integrated  
Data File: /chem/ecdl1.i/020510.b/025b2501.0  
Operator: YS1  
Injection Date: 05-FEB-2010 11:25  
Instrument: ecd1a.i  
Client Sample ID: RE15-10-8060

Y (x10<sup>-8</sup>)

1.0  
0.9  
0.8  
0.7  
0.6  
0.5  
0.4  
0.3  
0.2  
0.1



Comment: Before manual integration  
Data File: /chem/ecdl1a.i/020510.b/orig-025b1501.d  
Operator: YS1  
Injection Date: 05-FEB-2010 11:25  
Instrument: ecd1a.i  
Client Sample ID: RE15-10-8060



# STANDARDS DATA

Report Date: 08-Feb-2010 09:31

### Calibration History

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m  
Start Cal Date: 14-DEC-2009 05:36  
End Cal Date : 29-JAN-2010 08:59

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecdl1a.i/012210.b/013f1301.d
22-JAN-2010 06:48	AR1232	/chem/ecdl1a.i/012210.b/006f0601.d
28-JAN-2010 12:18	AR1268	/chem/ecdl1a.i/012810a.b/018f1801.d
14-DEC-2009 09:28	AR1248	/chem/ecdl1a.i/121409.b/028f2801.d
14-DEC-2009 08:25	AR1242	/chem/ecdl1a.i/121409.b/022f2201.d
14-DEC-2009 07:22	AR1254	/chem/ecdl1a.i/121409.b/016f1601.d
29-JAN-2010 07:46	AR1660	/chem/ecdl1a.i/012910.b/010f1001.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecdl1a.i/012210.b/014f1401.d
22-JAN-2010 06:58	AR1232	/chem/ecdl1a.i/012210.b/007f0701.d
28-JAN-2010 12:29	AR1268	/chem/ecdl1a.i/012810a.b/019f1901.d
14-DEC-2009 09:38	AR1248	/chem/ecdl1a.i/121409.b/029f2901.d
14-DEC-2009 08:35	AR1242	/chem/ecdl1a.i/121409.b/023f2301.d
14-DEC-2009 07:32	AR1254	/chem/ecdl1a.i/121409.b/017f1701.d
29-JAN-2010 07:57	AR1660	/chem/ecdl1a.i/012910.b/011f1101.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecdl1a.i/012210.b/015f1501.d
22-JAN-2010 07:09	AR1232	/chem/ecdl1a.i/012210.b/008f0801.d
28-JAN-2010 12:39	AR1268	/chem/ecdl1a.i/012810a.b/020f2001.d
14-DEC-2009 09:49	AR1248	/chem/ecdl1a.i/121409.b/030f3001.d
14-DEC-2009 08:46	AR1242	/chem/ecdl1a.i/121409.b/024f2401.d
14-DEC-2009 07:43	AR1254	/chem/ecdl1a.i/121409.b/018f1801.d
29-JAN-2010 08:07	AR1660	/chem/ecdl1a.i/012910.b/012f1201.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecdl1a.i/121409.b/046f4601.d
14-DEC-2009 09:59	AR1248	/chem/ecdl1a.i/121409.b/031f3101.d
14-DEC-2009 08:56	AR1242	/chem/ecdl1a.i/121409.b/025f2501.d
14-DEC-2009 07:53	AR1254	/chem/ecdl1a.i/121409.b/019f1901.d
29-JAN-2010 08:18	AR1660	/chem/ecdl1a.i/012910.b/013f1301.d
28-JAN-2010 12:50	AR1268	/chem/ecdl1a.i/012810a.b/021f2101.d
22-JAN-2010 08:36	AR1262	/chem/ecdl1a.i/012210.b/016f1601.d
14-DEC-2009 05:47	AR1221	/chem/ecdl1a.i/121409.b/007f0701.d
22-JAN-2010 07:19	AR1232	/chem/ecdl1a.i/012210.b/009f0901.d

Cal Level: 5 , Cal Amount: 4000.00000		
---------------------------------------	--	--



22-JAN-2010 08:47	AR1262	/chem/ecdla.i/012210.b/017f1701.d
22-JAN-2010 07:30	AR1232	/chem/ecdla.i/012210.b/010f1001.d
28-JAN-2010 13:00	AR1268	/chem/ecdla.i/012810a.b/022f2201.d
14-DEC-2009 10:10	AR1248	/chem/ecdla.i/121409.b/032f3201.d
14-DEC-2009 09:07	AR1242	/chem/ecdla.i/121409.b/026f2601.d
14-DEC-2009 08:04	AR1254	/chem/ecdla.i/121409.b/020f2001.d
29-JAN-2010 08:59	AR1660	/chem/ecdla.i/012910.b/014f1401.d

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 15:29	AR1660	/chem/ecdla.i/020510.b/046f4601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 14:05	AR1660	/chem/ecdla.i/020510.b/038f3801.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 12:40	AR1660	/chem/ecdla.i/020510.b/031f3101.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 10:51	AR1660	/chem/ecdla.i/020510.b/022f2201.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 08:20	AR1268	/chem/ecdla.i/020510.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:59	AR1221	/chem/ecdla.i/020510.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:48	AR1232	/chem/ecdla.i/020510.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:38	AR1248	/chem/ecdla.i/020510.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:27	AR1242	/chem/ecdla.i/020510.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:17	AR1254	/chem/ecdla.i/020510.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:06	AR1660	/chem/ecdla.i/020510.b/002f0201.d

Report Date: 08-Feb-2010 09:45

### Calibration History

Method : /chem/ecd1a.i/020510.b/ECD1-B-8082-121409.m  
Start Cal Date: 11-DEC-2009 10:17  
End Cal Date : 29-JAN-2010 08:59

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecd1a.i/012210.b/013b1301.d
22-JAN-2010 06:48	AR1232	/chem/ecd1a.i/012210.b/006b0601.d
28-JAN-2010 12:18	AR1268	/chem/ecd1a.i/012810a.b/018b1801.d
14-DEC-2009 09:28	AR1248	/chem/ecd1a.i/121409.b/028b2801.d
14-DEC-2009 08:25	AR1242	/chem/ecd1a.i/121409.b/022b2201.d
14-DEC-2009 07:22	AR1254	/chem/ecd1a.i/121409.b/016b1601.d
29-JAN-2010 07:46	AR1660	/chem/ecd1a.i/012910.b/010b1001.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecd1a.i/012210.b/014b1401.d
22-JAN-2010 06:58	AR1232	/chem/ecd1a.i/012210.b/007b0701.d
28-JAN-2010 12:29	AR1268	/chem/ecd1a.i/012810a.b/019b1901.d
14-DEC-2009 09:38	AR1248	/chem/ecd1a.i/121409.b/029b2901.d
14-DEC-2009 08:35	AR1242	/chem/ecd1a.i/121409.b/023b2301.d
14-DEC-2009 07:32	AR1254	/chem/ecd1a.i/121409.b/017b1701.d
29-JAN-2010 07:57	AR1660	/chem/ecd1a.i/012910.b/011b1101.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecd1a.i/012210.b/015b1501.d
22-JAN-2010 07:09	AR1232	/chem/ecd1a.i/012210.b/008b0801.d
28-JAN-2010 12:39	AR1268	/chem/ecd1a.i/012810a.b/020b2001.d
14-DEC-2009 09:49	AR1248	/chem/ecd1a.i/121409.b/030b3001.d
14-DEC-2009 08:46	AR1242	/chem/ecd1a.i/121409.b/024b2401.d
14-DEC-2009 07:43	AR1254	/chem/ecd1a.i/121409.b/018b1801.d
29-JAN-2010 08:07	AR1660	/chem/ecd1a.i/012910.b/012b1201.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecd1a.i/121409.b/046b4601.d
28-JAN-2010 12:50	AR1268	/chem/ecd1a.i/012810a.b/021b2101.d
22-JAN-2010 08:36	AR1262	/chem/ecd1a.i/012210.b/016b1601.d
14-DEC-2009 05:47	AR1221	/chem/ecd1a.i/121409.b/007b0701.d
22-JAN-2010 07:19	AR1232	/chem/ecd1a.i/012210.b/009b0901.d
14-DEC-2009 09:59	AR1248	/chem/ecd1a.i/121409.b/031b3101.d
14-DEC-2009 08:56	AR1242	/chem/ecd1a.i/121409.b/025b2501.d
14-DEC-2009 07:53	AR1254	/chem/ecd1a.i/121409.b/019b1901.d
29-JAN-2010 08:18	AR1660	/chem/ecd1a.i/012910.b/013b1301.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 08:47	AR1262	/chem/ecd1a.i/012210.b/017b1701.d
22-JAN-2010 07:30	AR1232	/chem/ecd1a.i/012210.b/010b1001.d
28-JAN-2010 13:00	AR1268	/chem/ecd1a.i/012810a.b/022b2201.d
14-DEC-2009 10:10	AR1248	/chem/ecd1a.i/121409.b/032b3201.d
14-DEC-2009 09:07	AR1242	/chem/ecd1a.i/121409.b/026b2601.d

14-DEC-2009 08:04	AR1254	/chem/ecd1a.i/121409.b/020b2001.d
29-JAN-2010 08:59	AR1660	/chem/ecd1a.i/012910.b/014b1401.d

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 15:29	AR1660	/chem/ecd1a.i/020510.b/046b4601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 14:05	AR1660	/chem/ecd1a.i/020510.b/038b3801.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 12:40	AR1660	/chem/ecd1a.i/020510.b/031b3101.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 10:51	AR1660	/chem/ecd1a.i/020510.b/022b2201.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:38	AR1248	/chem/ecd1a.i/020510.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 08:20	AR1268	/chem/ecd1a.i/020510.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:59	AR1221	/chem/ecd1a.i/020510.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:48	AR1232	/chem/ecd1a.i/020510.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 08:09	AR1262	/chem/ecd1a.i/020510.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:27	AR1242	/chem/ecd1a.i/020510.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:17	AR1254	/chem/ecd1a.i/020510.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:06	AR1660	/chem/ecd1a.i/020510.b/002b0201.d

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecdl1.i/020510.b/ECD1-F-8082-121409.m  
 Quant Method : ESTD Target Version : 3.50  
 Last Update : 08-Feb-2010 09:06 Number of Cpnds : 15  
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold      12031.000000
Initial:End Threshold        6015.500000
Initial:Area Threshold       15489.000000
Initial:P-P Resolution       1.000000
Initial:Bunch Factor         2.000000
Initial:Negative Peaks       OFF
Initial:Tension              0.500000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	2.419	2.389-2.449	1.466e+04
	2.707	2.677-2.737	1.832e+04
	2.788	2.758-2.818	1.202e+04
	2.826	2.796-2.856	7.180e+03
	3.036	3.006-3.066	9.290e+03
63 4,4-DDD	3.953	3.933-3.973	3.938e+05
64 4,4-DDE	3.603	3.583-3.623	4.795e+05
62 4,4-DDT	4.118	4.098-4.138	3.238e+05
2 Aroclor-1221	2.077	2.047-2.107	4.301e+03
	2.170	2.140-2.200	2.440e+03
	2.195	2.165-2.225	1.027e+04
3 Aroclor-1232	2.421	2.391-2.451	6.849e+03
	2.709	2.679-2.739	8.426e+03
	2.789	2.759-2.819	5.627e+03
	3.038	3.008-3.068	3.983e+03
4 Aroclor-1242	3.291	3.261-3.321	3.858e+03
	2.420	2.390-2.450	1.166e+04
	2.708	2.678-2.738	1.345e+04
	2.826	2.796-2.856	5.506e+03
	3.037	3.007-3.067	7.245e+03
	3.290	3.260-3.320	6.811e+03

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.088	3.058-3.118	7.848e+03
	3.240	3.210-3.270	6.870e+03
	3.291	3.261-3.321	1.331e+04
	3.422	3.392-3.452	1.101e+04
	3.655	3.625-3.685	7.455e+03
6 Aroclor-1254	3.266	3.236-3.296	1.249e+04
	3.421	3.391-3.451	1.672e+04
	3.655	3.625-3.685	2.071e+04
	3.818	3.788-3.848	1.569e+04
	3.926	3.896-3.956	1.517e+04
7 Aroclor-1260	3.762	3.732-3.792	1.764e+04
	3.925	3.895-3.955	2.666e+04
	4.155	4.125-4.185	1.592e+04
	4.297	4.267-4.327	1.655e+04
	4.477	4.447-4.507	3.714e+04
8 Aroclor-1262	3.763	3.733-3.793	1.500e+04
	3.926	3.896-3.956	2.038e+04
	4.156	4.126-4.186	2.520e+04
	4.299	4.269-4.329	2.299e+04
	4.478	4.448-4.508	4.717e+04
9 Aroclor-1268	4.663	4.633-4.693	5.248e+04
	4.686	4.656-4.716	4.812e+04
	4.799	4.769-4.829	3.703e+04
	5.001	4.971-5.031	1.629e+04
	5.167	5.137-5.197	1.083e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.965	1.935-1.995	3.986e+05
\$ 12 Decachlorobiphenyl	5.275	5.245-5.305	3.233e+05

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecdl1.i/020510.b/ECD1-B-8082-121409.m  
 Quant Method : ESTD Target Version : 3.50  
 Last Update : 08-Feb-2010 09:06 Number of Cpnds : 15  
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold      7222.000000
Initial:End Threshold        3611.000000
Initial:Area Threshold       6833.000000
Initial:P-P Resolution       0.000000
Initial:Bunch Factor         2.000000
Initial:Negative Peaks      OFF
Initial:Tension              0.500000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	3.192	3.162-3.222	1.248e+04
	3.275	3.245-3.305	8.547e+03
	3.339	3.309-3.369	5.291e+03
	3.565	3.535-3.595	6.814e+03
	3.641	3.611-3.671	6.405e+03
62 4,4-DDT	4.670	4.650-4.690	2.436e+05
63 4,4-DDE	4.139	4.119-4.159	3.580e+05
64 4,4-DDD	4.483	4.463-4.503	2.893e+05
2 Aroclor-1221	2.492	2.462-2.522	3.640e+03
	2.586	2.556-2.616	2.329e+03
	2.627	2.597-2.657	8.119e+03
3 Aroclor-1232	2.895	2.865-2.925	5.892e+03
	3.193	3.163-3.223	6.222e+03
	3.276	3.246-3.306	4.345e+03
	3.567	3.537-3.597	3.111e+03
4 Aroclor-1242	3.800	3.770-3.830	3.193e+03
	3.192	3.162-3.222	1.059e+04
	3.275	3.245-3.305	8.054e+03
	3.566	3.536-3.596	5.962e+03
	3.800	3.770-3.830	6.057e+03
	3.828	3.798-3.858	6.701e+03

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.401	3.371-3.431	8.054e+03
	3.566	3.536-3.596	9.874e+03
	3.800	3.770-3.830	1.122e+04
	3.827	3.797-3.857	1.248e+04
	3.965	3.935-3.995	1.210e+04
6 Aroclor-1254	3.401	3.371-3.431	6.435e+03
	3.824	3.794-3.854	1.156e+04
	3.940	3.910-3.970	1.243e+04
	4.216	4.186-4.246	1.688e+04
	4.353	4.323-4.383	1.244e+04
7 Aroclor-1260	4.332	4.302-4.362	1.264e+04
	4.457	4.427-4.487	1.522e+04
	4.722	4.692-4.752	1.165e+04
	4.896	4.866-4.926	1.205e+04
	5.043	5.013-5.073	2.607e+04
8 Aroclor-1262	4.457	4.427-4.487	1.356e+04
	4.723	4.693-4.753	1.889e+04
	4.897	4.867-4.927	1.747e+04
	5.044	5.014-5.074	3.453e+04
	5.257	5.227-5.287	2.487e+04
9 Aroclor-1268	5.255	5.225-5.285	3.626e+04
	5.283	5.253-5.313	3.358e+04
	5.433	5.403-5.463	2.598e+04
	5.598	5.568-5.628	1.135e+04
	5.790	5.760-5.820	6.708e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.296	2.266-2.326	2.872e+05
\$ 12 Decachlorobiphenyl	5.942	5.912-5.972	2.176e+05

GEL Laboratories LLC  
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36  
 End Cal Date : 29-JAN-2010 08:59  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m  
 Cal Date : 08-Feb-2010 09:06 yip00818  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013f1301.d  
 Level 2: /chem/ecdla.i/012210.b/014f1401.d  
 Level 3: /chem/ecdla.i/012210.b/015f1501.d  
 Level 4: /chem/ecdla.i/121409.b/046f4601.d  
 Level 5: /chem/ecdla.i/012210.b/017f1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	17274	15624	14668	13618	12110	14659	13.365
(2)	20414	18506	18422	17664	16607	18323	7.617
(3)	13811	12507	11857	11466	10478	12024	10.320
(4)	8094	7393	7100	6874	6439	7180	8.612
(5)	10520	9736	9158	8813	8222	9290	9.475
63 4,4-DDD	+++++	+++++	+++++	393799	+++++	393799	0.000
64 4,4-DDE	+++++	+++++	+++++	479509	+++++	479509	0.000
62 4,4-DDT	+++++	+++++	+++++	323817	+++++	323817	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	4301	+++++	4301	0.000
(2)	+++++	+++++	+++++	2440	+++++	2440	0.000
(3)	+++++	+++++	+++++	10272	+++++	10272	0.000
3 Aroclor-1232(1)	8031	7459	6765	6313	5679	6849	13.524
(2)	9246	8871	8229	8095	7686	8426	7.427
(3)	6376	6076	5599	5256	4827	5627	11.031
(4)	4642	4328	3905	3655	3384	3983	12.710
(5)	4445	4061	3757	3587	3443	3858	10.378
4 Aroclor-1242(1)	13692	12467	11522	10819	9798	11660	12.846
(2)	14782	14429	13236	12555	12263	13453	8.301
(3)	6076	5890	5423	5191	4949	5506	8.563
(4)	8395	7578	7079	6747	6426	7245	10.645
(5)	7587	7189	6604	6378	6296	6811	8.178
5 Aroclor-1248(1)	9070	8103	7743	7247	7078	7848	10.119
(2)	7785	7181	6827	6444	6114	6870	9.456
(3)	15108	13267	13037	12915	12225	13310	8.094
(4)	12682	11331	10815	10392	9852	11015	9.799
(5)	8605	7806	7405	7124	6336	7455	11.244



GEL Laboratories LLC  
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36  
 End Cal Date : 29-JAN-2010 08:59  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m  
 Cal Date : 08-Feb-2010 09:06 yip00818  
 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
6 Aroclor-1254(1)	14281	12975	12313	11911	10947	12485	9.963
(2)	18803	17181	16666	15949	15010	16722	8.494
(3)	22492	20906	20786	20326	19059	20714	5.957
(4)	16753	15627	15809	15513	14770	15694	4.535
(5)	16595	15169	15433	15075	13591	15172	7.071
7 Aroclor-1260(1)	19303	18084	17596	17320	15881	17637	7.037
(2)	28906	27177	26621	26372	24235	26662	6.298
(3)	17466	16264	15774	15593	14511	15922	6.750
(4)	17694	16895	16482	16357	15325	16551	5.206
(5)	38673	37803	37114	37178	34909	37135	3.753
8 Aroclor-1262(1)	16796	15375	14585	14470	13775	15000	7.687
(2)	22563	20964	19865	19587	18936	20383	6.975
(3)	27641	25661	24522	24605	23554	25197	6.179
(4)	25041	23378	22465	22352	21708	22989	5.624
(5)	49563	47861	46825	46728	44852	47166	3.655
9 Aroclor-1268(1)	55111	53385	52967	52495	48466	52485	4.676
(2)	51014	48609	47960	48222	44786	48118	4.620
(3)	39244	37391	36973	36968	34562	37028	4.505
(4)	17802	16531	16072	16029	15038	16294	6.158
(5)	113064	109648	108755	109096	100824	108277	4.162
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	416570	402663	398822	398666	376523	398649	3.607
\$ 12 Decachlorobiphenyl	349811	330143	318231	316573	301823	323316	5.537

GEL Laboratories LLC  
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17  
 End Cal Date : 29-JAN-2010 08:59  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m  
 Cal Date : 08-Feb-2010 09:06 yip00818  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013b1301.d  
 Level 2: /chem/ecdla.i/012210.b/014b1401.d  
 Level 3: /chem/ecdla.i/012210.b/015b1501.d  
 Level 4: /chem/ecdla.i/121409.b/046b4601.d  
 Level 5: /chem/ecdla.i/012210.b/017b1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14228	12876	12485	11870	10964	12485	9.713
(2)	10308	9112	8344	7935	7035	8547	14.474
(3)	6330	5599	5139	4929	4456	5291	13.452
(4)	8280	7111	6551	6409	5718	6814	14.062
(5)	7890	6662	6193	5904	5375	6405	14.872
62 4,4-DDT	+++++	+++++	+++++	243613	+++++	243613	0.000
63 4,4-DDE	+++++	+++++	+++++	357996	+++++	357996	0.000
64 4,4-DDD	+++++	+++++	+++++	289343	+++++	289343	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	3640	+++++	3640	0.000
(2)	+++++	+++++	+++++	2329	+++++	2329	0.000
(3)	+++++	+++++	+++++	8119	+++++	8119	0.000
3 Aroclor-1232(1)	7405	6518	5773	5260	4504	5892	19.017
(2)	7294	6687	6058	5769	5299	6222	12.576
(3)	5336	4800	4249	3912	3427	4345	17.180
(4)	3854	3418	3039	2783	2462	3111	17.466
(5)	3940	3492	3102	2870	2562	3193	16.853
4 Aroclor-1242(1)	12348	11309	9989	9755	9542	10589	11.338
(2)	9730	8628	7875	7358	6677	8054	14.627
(3)	7163	6326	5763	5452	5107	5962	13.534
(4)	7183	6468	5900	5548	5185	6057	12.997
(5)	7820	7123	6589	6229	5746	6701	11.977
5 Aroclor-1248(1)	9914	8542	7972	7289	6553	8054	15.880
(2)	11996	10356	9798	9046	8173	9874	14.605
(3)	13306	11756	11119	10365	9555	11220	12.723
(4)	14720	13121	12480	11577	10516	12483	12.732
(5)	14361	12633	11977	11210	10342	12104	12.596

GEL Laboratories LLC  
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17  
 End Cal Date : 29-JAN-2010 08:59  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : Falcon  
 Method file : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m  
 Cal Date : 08-Feb-2010 09:06 yip00818  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	7857	6938	6317	5878	5185	6435	15.850
(2)	13759	12316	11389	10708	9625	11559	13.615
(3)	14674	13172	12243	11576	10492	12431	12.786
(4)	19102	17554	16808	16165	14771	16880	9.533
(5)	14276	12708	12612	11843	10739	12435	10.425
7 Aroclor-1260(1)	14858	13325	12348	11932	10758	12644	12.198
(2)	17461	15979	14935	14482	13243	15220	10.456
(3)	13572	12242	11423	10976	10040	11651	11.471
(4)	14023	12666	11806	11380	10392	12054	11.383
(5)	28927	27037	25880	25311	23188	26068	8.140
8 Aroclor-1262(1)	15849	14211	13033	12748	11945	13557	11.192
(2)	21776	19630	18382	17939	16725	18890	10.157
(3)	20222	18124	16968	16542	15497	17471	10.323
(4)	38743	35618	34053	33297	30946	34532	8.384
(5)	28740	25266	23755	23937	22633	24866	9.485
9 Aroclor-1268(1)	40076	37508	36193	35765	31736	36256	8.369
(2)	36699	34342	33454	33223	30195	33583	6.968
(3)	29294	26633	25688	25340	22957	25982	8.826
(4)	12990	11609	11161	10996	9978	11347	9.656
(5)	67306	67058	67598	69416	64002	67076	2.911
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	314910	295845	285456	280701	259306	287244	7.105
\$ 12 Decachlorobiphenyl	251054	227132	210476	206848	192632	217628	10.274

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0706  
 Lab File ID: 002F0201 Init. Calib. Date(s): 01/29/10 01/29/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	14658.821	12837.588	0.01	-12.4	15.0
(2)	18322.626	16881.446	0.01	-7.9	15.0
(3)	12023.655	10579.542	0.01	-12.0	15.0
(4)	7180.129	6340.762	0.01	-11.7	15.0
(5)	9289.783	8310.417	0.01	-10.5	15.0
Aroclor-1260	17636.550	17492.483	0.01	-0.8	15.0
(2)	26662.025	26719.248	0.01	0.2	15.0
(3)	15921.638	15874.558	0.01	-0.3	15.0
(4)	16550.665	16698.516	0.01	0.9	15.0
(5)	37135.384	38229.555	0.01	2.9	15.0
4cmx	398648.98	371361.76	0.01	-6.8	15.0
Decachlorobiphenyl	323316.27	306305.72	0.01	-5.3	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0706  
 Lab File ID: 002B0201 Init. Calib. Date(s): 01/29/10 01/29/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12484.762	11513.111	0.01	-7.8	15.0
(2)	8546.824	7680.091	0.01	-10.1	15.0
(3)	5290.741	4732.691	0.01	-10.5	15.0
(4)	6813.513	6037.895	0.01	-11.4	15.0
(5)	6404.782	5752.367	0.01	-10.2	15.0
Aroclor-1260	12644.310	12622.486	0.01	-0.2	15.0
(2)	15220.096	15319.189	0.01	0.6	15.0
(3)	11650.528	11665.669	0.01	0.1	15.0
(4)	12053.523	12022.139	0.01	-0.3	15.0
(5)	26068.381	27036.683	0.01	3.7	15.0
4cmx	287243.52	273128.74	0.01	-4.9	15.0
Decachlorobiphenyl	217628.16	208183.20	0.01	-4.3	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0717  
 Lab File ID: 003F0301 Init. Calib. Date(s): 12/14/09 12/14/09  
 Heated Purge: (Y/N) N Init. Calib. Times: 0722 0804  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	12485.476	13316.408	0.01	6.6	15.0
(2)	16721.938	18383.138	0.01	9.9	15.0
(3)	20713.923	24035.597	0.01	16.0	15.0
(4)	15694.205	18227.087	0.01	16.1	15.0
(5)	15172.491	17340.088	0.01	14.3	15.0

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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.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0717  
 Lab File ID: 003B0301 Init. Calib. Date(s): 12/14/09 12/14/09  
 Heated Purge: (Y/N) N Init. Calib. Times: 0722 0804  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	6435.255	6210.292	0.01	-3.5	15.0
(2)	11559.316	11223.428	0.01	-2.9	15.0
(3)	12431.285	12385.662	0.01	-0.4	15.0
(4)	16880.060	17124.358	0.01	1.4	15.0
(5)	12435.475	12208.508	0.01	-1.8	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0820  
 Lab File ID: 009F0901 Init. Calib. Date(s): 01/28/10 01/28/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1218 1300  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1268	52484.978	48680.194	0.01	-7.2	15.0
(2)	48118.088	45876.697	0.01	-4.6	15.0
(3)	37027.541	36431.401	0.01	-1.6	15.0
(4)	16294.262	18070.217	0.01	10.9	15.0
(5)	108277.36	120791.94	0.01	11.6	15.0

FORM VII PEST



FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0820  
 Lab File ID: 009B0901 Init. Calib. Date(s): 01/28/10 01/28/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 1218 1300  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1268	36255.530	33206.637	0.01	-8.4	15.0
(2)	33582.584	31815.832	0.01	-5.3	15.0
(3)	25982.381	25007.382	0.01	-3.8	15.0
(4)	11346.665	12362.596	0.01	9.0	15.0
(5)	67076.083	78842.117	0.01	17.5	15.0

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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.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1051  
 Lab File ID: 022F2201 Init. Calib. Date(s): 01/29/10 01/29/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	14658.821	14089.870	0.01	-3.9	15.0
(2)	18322.626	18254.738	0.01	-0.4	15.0
(3)	12023.655	11539.563	0.01	-4.0	15.0
(4)	7180.129	6922.359	0.01	-3.6	15.0
(5)	9289.783	8923.226	0.01	-3.9	15.0
Aroclor-1260	17636.550	19002.908	0.01	7.7	15.0
(2)	26662.025	28995.739	0.01	8.8	15.0
(3)	15921.638	17302.329	0.01	8.7	15.0
(4)	16550.665	18016.442	0.01	8.8	15.0
(5)	37135.384	41342.662	0.01	11.3	15.0
4cmx	398648.98	405041.02	0.01	1.6	15.0
Decachlorobiphenyl	323316.27	329068.95	0.01	1.8	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1051  
 Lab File ID: 022B2201 Init. Calib. Date(s): 01/29/10 01/29/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12484.762	12553.097	0.01	0.5	15.0
(2)	8546.824	8166.106	0.01	-4.4	15.0
(3)	5290.741	5045.053	0.01	-4.6	15.0
(4)	6813.513	6628.314	0.01	-2.7	15.0
(5)	6404.782	6123.430	0.01	-4.4	15.0
Aroclor-1260	12644.310	13388.386	0.01	5.9	15.0
(2)	15220.096	16291.509	0.01	7.0	15.0
(3)	11650.528	12420.565	0.01	6.6	15.0
(4)	12053.523	12892.266	0.01	7.0	15.0
(5)	26068.381	28894.660	0.01	10.8	15.0
4cmx	287243.52	289912.86	0.01	0.9	15.0
Decachlorobiphenyl	217628.16	222287.65	0.01	2.1	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1240  
 Lab File ID: 031F3101 Init. Calib. Date(s): 01/29/10 01/29/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859  
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	14658.821	14012.608	0.01	-4.4	15.0
(2)	18322.626	18319.018	0.01	-0.0	15.0
(3)	12023.655	11547.801	0.01	-4.0	15.0
(4)	7180.129	6929.943	0.01	-3.5	15.0
(5)	9289.783	8939.715	0.01	-3.8	15.0
Aroclor-1260	17636.550	18972.127	0.01	7.6	15.0
(2)	26662.025	28835.947	0.01	8.2	15.0
(3)	15921.638	17204.186	0.01	8.0	15.0
(4)	16550.665	18148.577	0.01	9.6	15.0
(5)	37135.384	41262.622	0.01	11.1	15.0
4cmx	398648.98	404599.75	0.01	1.5	15.0
Decachlorobiphenyl	323316.27	326299.17	0.01	0.9	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473  
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1240  
 Lab File ID: 031B3101 Init. Calib. Date(s): 01/29/10 01/29/10  
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859  
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12484.762	12359.615	0.01	-1.0	15.0
(2)	8546.824	8069.931	0.01	-5.6	15.0
(3)	5290.741	4988.684	0.01	-5.7	15.0
(4)	6813.513	6345.906	0.01	-6.9	15.0
(5)	6404.782	6017.327	0.01	-6.0	15.0
Aroclor-1260	12644.310	13242.341	0.01	4.7	15.0
(2)	15220.096	16223.303	0.01	6.6	15.0
(3)	11650.528	12301.397	0.01	5.6	15.0
(4)	12053.523	12694.909	0.01	5.3	15.0
(5)	26068.381	28307.638	0.01	8.6	15.0
4cmx	287243.52	286907.88	0.01	-0.1	15.0
Decachlorobiphenyl	217628.16	219266.81	0.01	0.8	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/020510.b/002f0201.d  
 Lab Smp Id: WAR100203-60 01 Client Smp ID: AR166001  
 Inj Date : 05-FEB-2010 07:06  
 Operator : YS1 Inst ID: ecd1a.i  
 Smp Info : |WAR100203-60 01  
 Misc Info :  
 Comment :  
 Method : /chem/ecdl1.i/020510.b/ECD1-F-8082-121409.m  
 Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD  
 Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d  
 Als bottle: 2 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: AR1660.sub  
 Target Version: 3.50 Sample Matrix: None

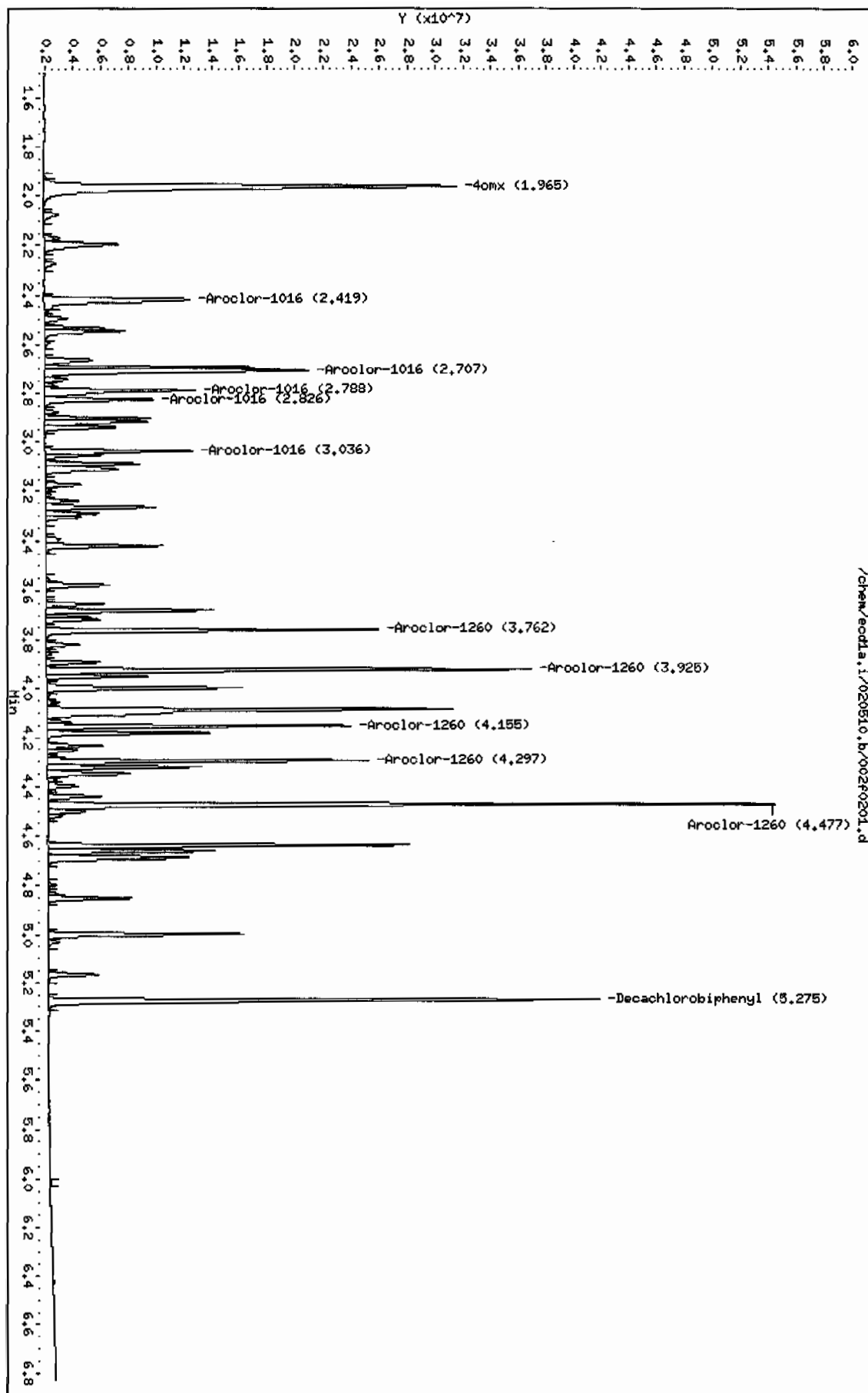
AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.965	1.965	0.000	37136176 100.000	93.2	80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.275	5.275	0.000	30630572 100.000	94.7	80.00- 120.00	100.00	
-----							
1 Aroclor-1016				CAS #: 12674-11-2			
2.419	2.419	0.000	12837588 1000.00	876	80.00- 120.00	100.00	
2.707	2.707	0.000	16881446 1000.00	921	111.50- 151.50	131.50	
2.788	2.788	0.000	10579542 1000.00	880	62.41- 102.41	82.41	
2.826	2.826	0.000	6340762 1000.00	883	29.39- 69.39	49.39	
3.036	3.036	0.000	8310417 1000.00	894	44.74- 84.74	64.74	
Average of Peak Amounts =				891			
-----							
7 Aroclor-1260				CAS #: 11096-82-5			
3.762	3.762	0.000	17492483 1000.00	992	80.00- 120.00	100.00	
3.925	3.925	0.000	26719248 1000.00	1000	132.75- 172.75	152.75	
4.155	4.155	0.000	15874558 1000.00	997	70.75- 110.75	90.75	
4.297	4.297	0.000	16698516 1000.00	1010	75.46- 115.46	95.46	
4.477	4.477	0.000	38229555 1000.00	1030	198.55- 238.55	218.55	
Average of Peak Amounts =				1.01e+03			
-----							

Data File: /chem/eodla.i/020510.b/002f0201.d  
Date: 05-FEB-2010 07:06  
Client ID: AR166001  
Sample Info: IWR100203-60 01

Column phase: CLP1

Instrument: eodla.i  
Operator: YSL  
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/002b0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 05-FEB-2010 07:06

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 01

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		( ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.296	2.296	0.000	27312874	100.000	95.1	80.00- 120.00	100.00
-----							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.942	5.942	0.000	20818320	100.000	95.7	80.00- 120.00	100.00
-----							
1 Aroclor-1016					CAS #: 12674-11-2		
3.192	3.192	0.000	11513111	1000.00	922	80.00- 120.00	100.00 (M)
3.275	3.275	0.000	7680091	1000.00	898	46.71- 86.71	66.71
3.339	3.339	0.000	4732691	1000.00	894	21.11- 61.11	41.11
3.565	3.565	0.000	6037895	1000.00	886	32.44- 72.44	52.44
3.641	3.641	0.000	5752367	1000.00	898	29.96- 69.96	49.96
Average of Peak Amounts =					900		
-----							
7 Aroclor-1260					CAS #: 11096-82-5		
4.332	4.332	0.000	12622486	1000.00	998	80.00- 120.00	100.00
4.457	4.457	0.000	15319189	1000.00	1010	101.36- 141.36	121.36
4.722	4.722	0.000	11665669	1000.00	1000	72.42- 112.42	92.42
4.896	4.896	0.000	12022139	1000.00	997	75.24- 115.24	95.24
5.043	5.043	0.000	27036683	1000.00	1040	194.19- 234.19	214.19
Average of Peak Amounts =					1.01e+03		
-----							



Data File: /chem/ecdl1a.i/020510.b/002b0201.d  
Report Date: 05-Feb-2010 08:29

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#### QC Flag Legend

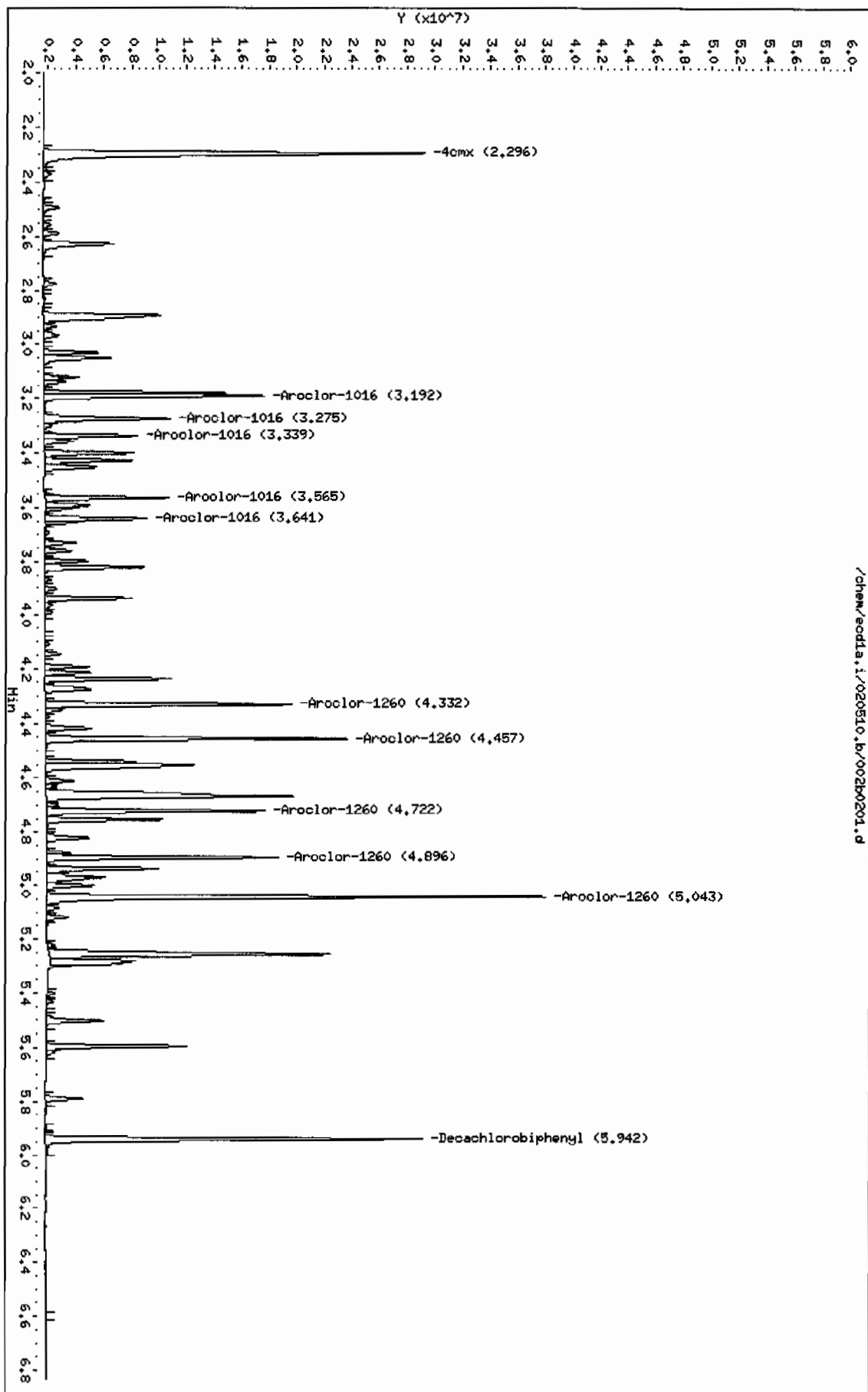
M - Compound response manually integrated.

Data File: /chem/ecdia.i/020510.b/002b0201.d  
Date: 05-FEB-2010 07:06  
Client ID: AR16001  
Sample Info: 1MAR100203-60 01

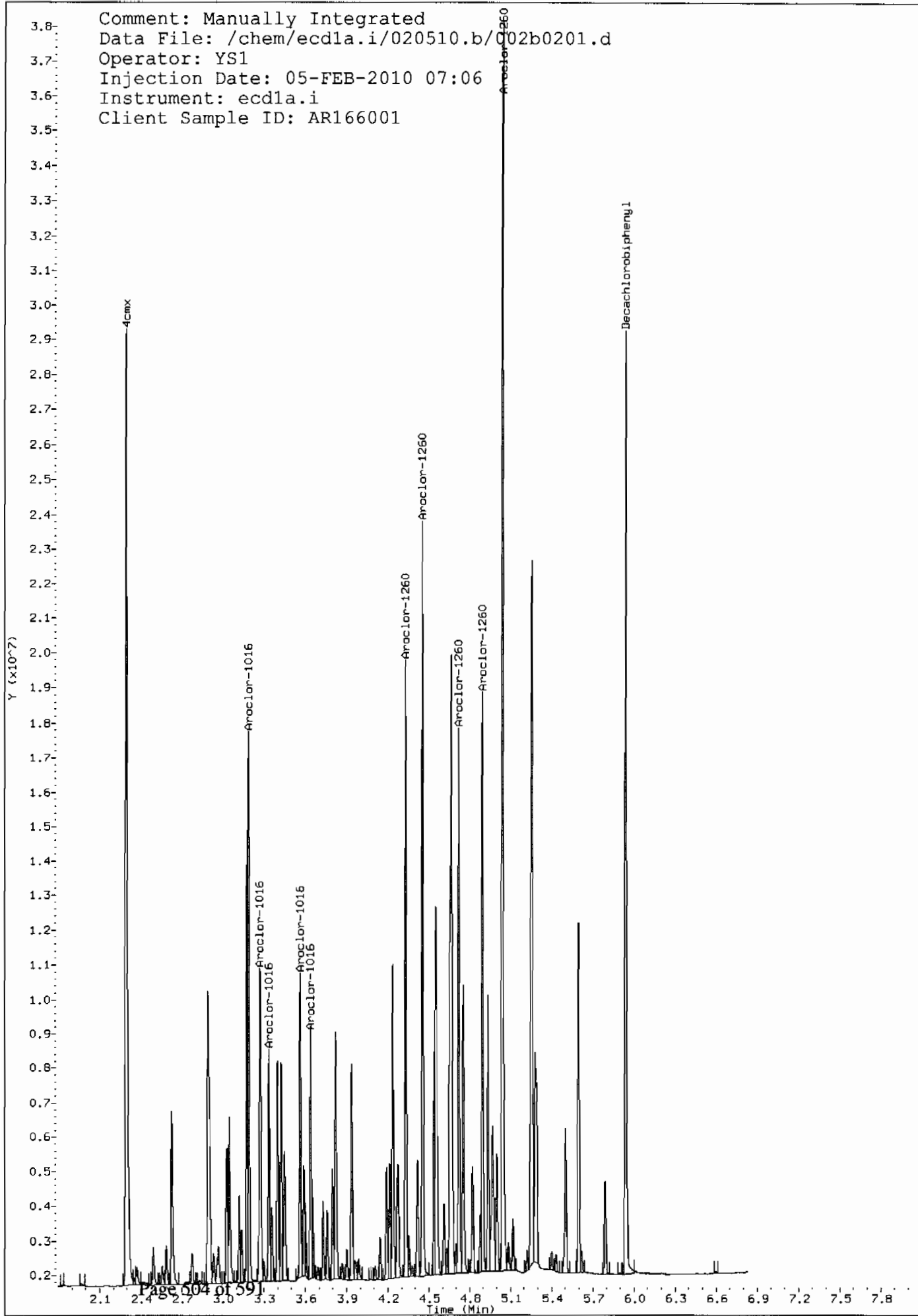
Column phase: CLP2

Instrument: ecdia.i  
Operator: YS1  
Column diameter: 0.25

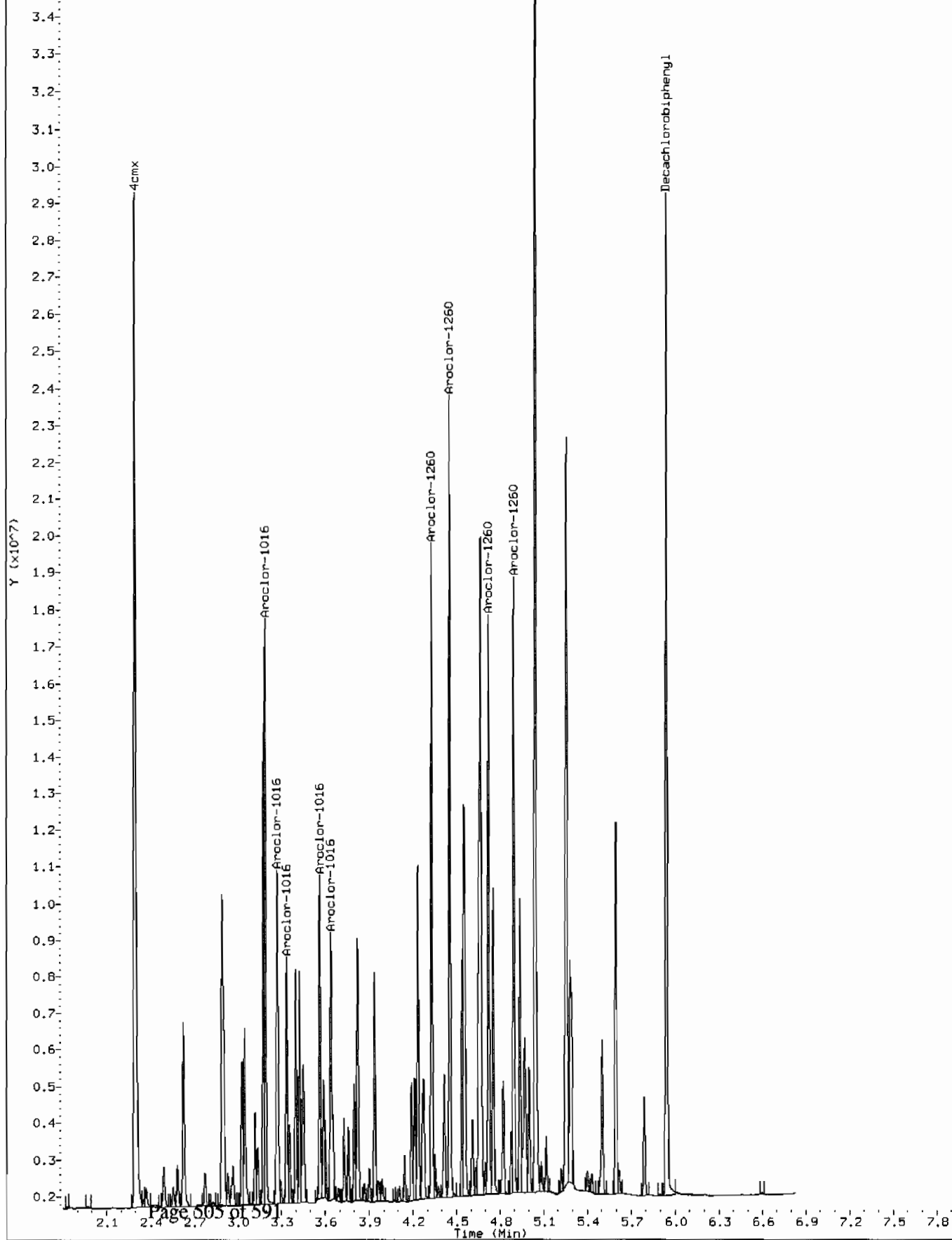
/chem/ecdia.i/020510.b/002b0201.d



Comment: Manually Integrated  
Data File: /chem/ecdl1a.i/020510.b/002b0201.d  
Operator: YS1  
Injection Date: 05-FEB-2010 07:06  
Instrument: ecd1a.i  
Client Sample ID: AR166001



Comment: Before manual integration  
Data File: /chem/ecdl1.i/020510.b/orig-002b0201.d  
Operator: YS1  
Injection Date: 05-FEB-2010 07:06  
Instrument: ecd1a.i  
Client Sample ID: AR166001



Data File: /chem/ecdl1.i/020510.b/003f0301.d  
Report Date: 05-Feb-2010 08:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/020510.b/003f0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 05-FEB-2010 07:17

Operator : YS1

Inst ID: ecd1.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdl1.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254

CAS #: 11097-69-1

3.266	3.266	0.000	13316408	1000.00	1070 80.00- 120.00	100.00
3.421	3.421	0.000	18383138	1000.00	1100 118.05- 158.05	138.05
3.655	3.655	0.000	24035597	1000.00	1160 160.50- 200.50	180.50
3.818	3.818	0.000	18227087	1000.00	1160 116.88- 156.88	136.88
3.926	3.926	0.000	17340088	1000.00	1140 110.22- 150.22	130.22

Average of Peak Amounts = 1.13e+03

Data File: /chem/eodla.i/020510.b/003f0301.d

Date: 05-FEB-2010 07:17

Client ID: AR125401

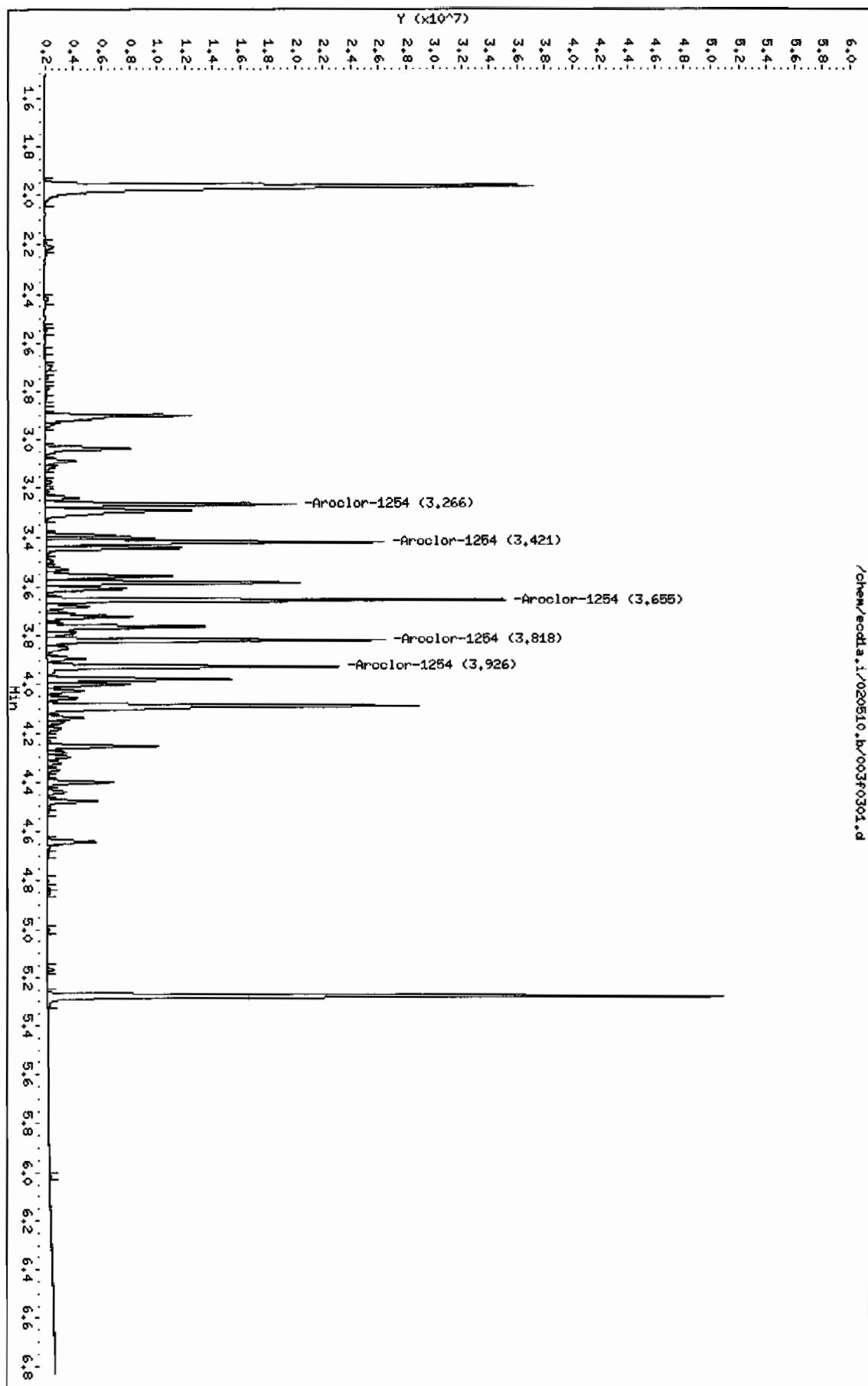
Sample Info: 1MAR091216-54

Column phase: CLP1

Instrument: eodla.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdl1a.i/020510.b/003b0301.d  
Report Date: 05-Feb-2010 08:29

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/003b0301.d

Lab Smp Id: WAR091216-54 Client Smp ID: AR125401

Inj Date : 05-FEB-2010 07:17

Operator : YS1 Inst ID: ecd1a.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d

Als bottle: 3 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: AR1254.sub

Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
3.401	3.401	0.000	6210292 1000.00	965 80.00~ 120.00	100.00	
3.824	3.824	0.000	11223428 1000.00	971 160.72~ 200.72	180.72	
3.940	3.940	0.000	12385662 1000.00	996 179.44~ 219.44	199.44	
4.216	4.216	0.000	17124358 1000.00	1010 255.74~ 295.74	275.74	
4.353	4.353	0.000	12208508 1000.00	982 176.59~ 216.59	196.59	
Average of Peak Amounts =				986		

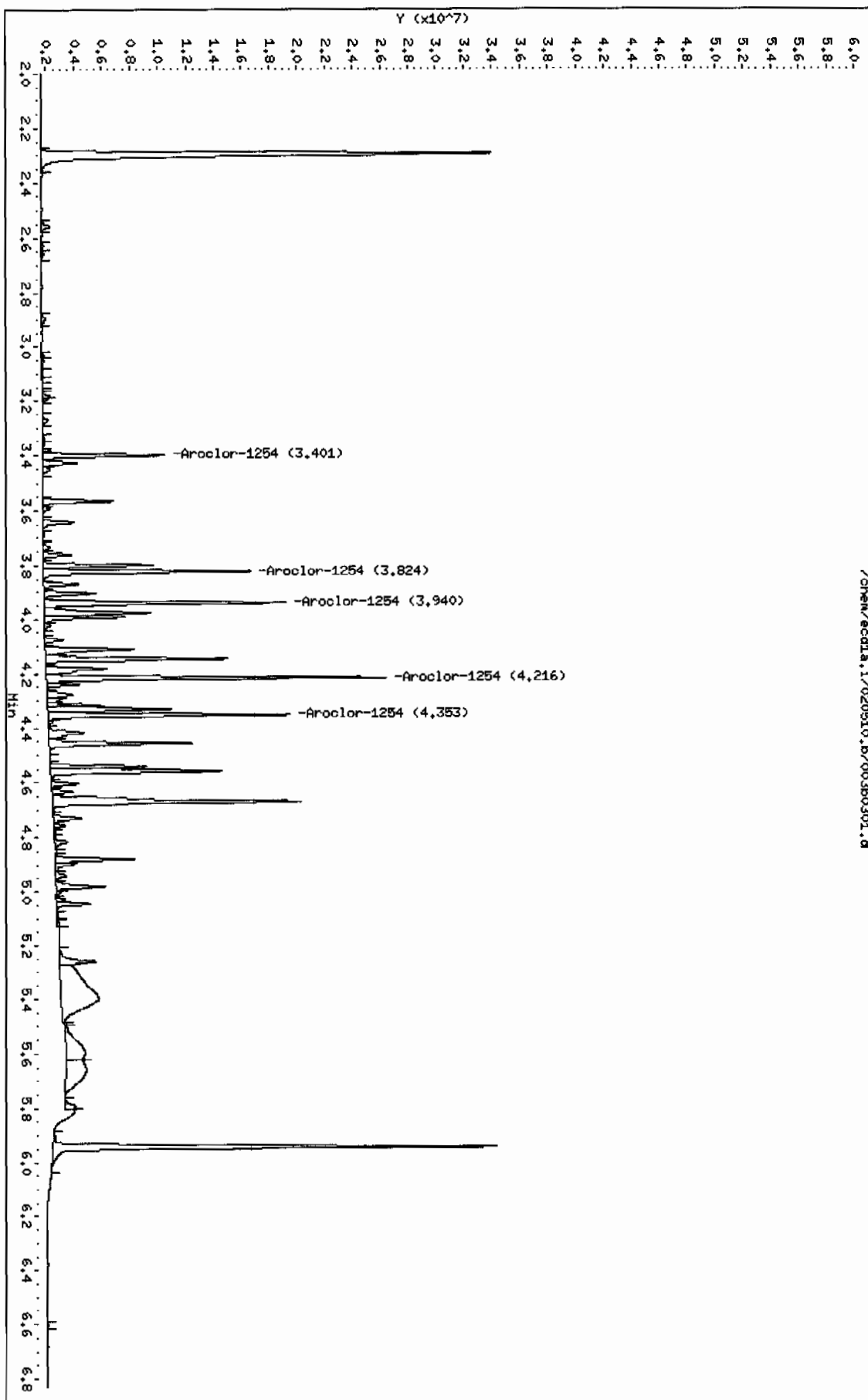
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Date: 05-FEB-2010 07:17  
Client ID: AR125401  
Sample Info: 14AR091216-54

Column phase: CLP2

/chem/ecdl1.i/020510.b/003b0301.d

Instrument: ecdl1.i  
Operator: YSL  
Column diameter: 0.25

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Data File: /chem/ecdl1a.i/020510.b/004f0401.d  
Report Date: 05-Feb-2010 08:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 05-FEB-2010 07:27

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
2.420	2.420	0.000	11255044	1000.00	965 80.00- 120.00	100.00
2.708	2.708	0.000	14293317	1000.00	1060 106.99- 146.99	126.99
2.826	2.826	0.000	5433097	1000.00	987 28.27- 68.27	48.27
3.037	3.037	0.000	7156483	1000.00	988 43.58- 83.58	63.58
3.290	3.290	0.000	6999007	1000.00	1030 42.19- 82.19	62.19

Average of Peak Amounts =

1.01e+03

Data File: /chem/ecdl1.i/020510.b/004f0401.d

Date : 05-FEB-2010 07:27

Client ID: AR124201

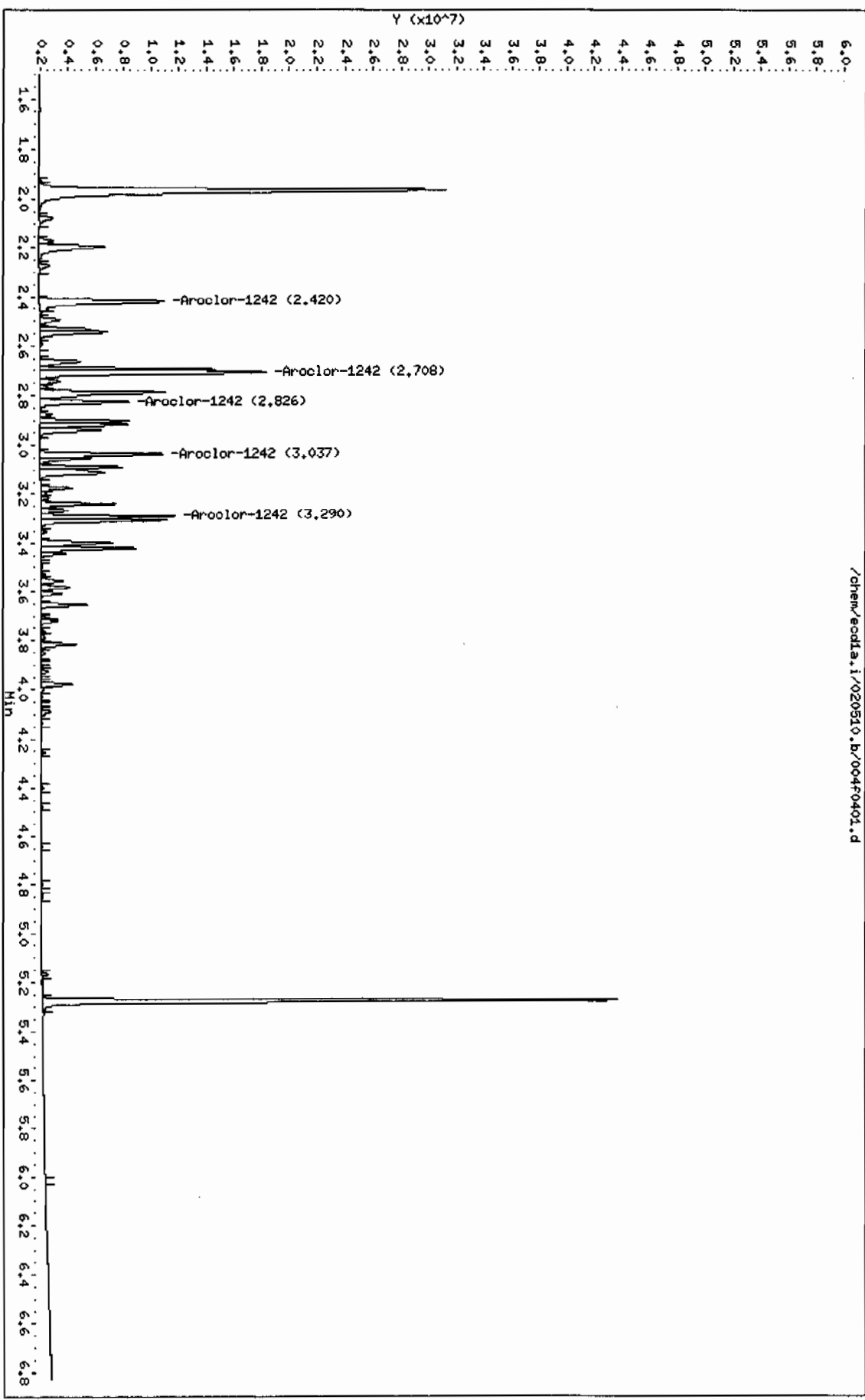
Sample Info: IWAR091217-42

Column phase: CLP1

Instrument: ecdl1.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdla.i/020510.b/004b0401.d  
Report Date: 05-Feb-2010 08:29

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 05-FEB-2010 07:27

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
4 Aroclor-1242			CAS #: 53469-21-9			
3.192	3.192	0.000	10109273 1000.00	955	80.00- 120.00	100.00
3.275	3.275	0.000	6573360 1000.00	816	45.02- 85.02	65.02
3.566	3.566	0.000	5197092 1000.00	872	31.41- 71.41	51.41
3.800	3.800	0.000	5378692 1000.00	888	33.21- 73.21	53.21
3.828	3.828	0.000	6016980 1000.00	898	39.52- 79.52	59.52
Average of Peak Amounts =			886			

Data File: /chem/ecdl.a.i/020510.b/00460401.d

Date: 05-FEB-2010 07:27

Client ID: AR124201

Sample Info: I4RR091217-42

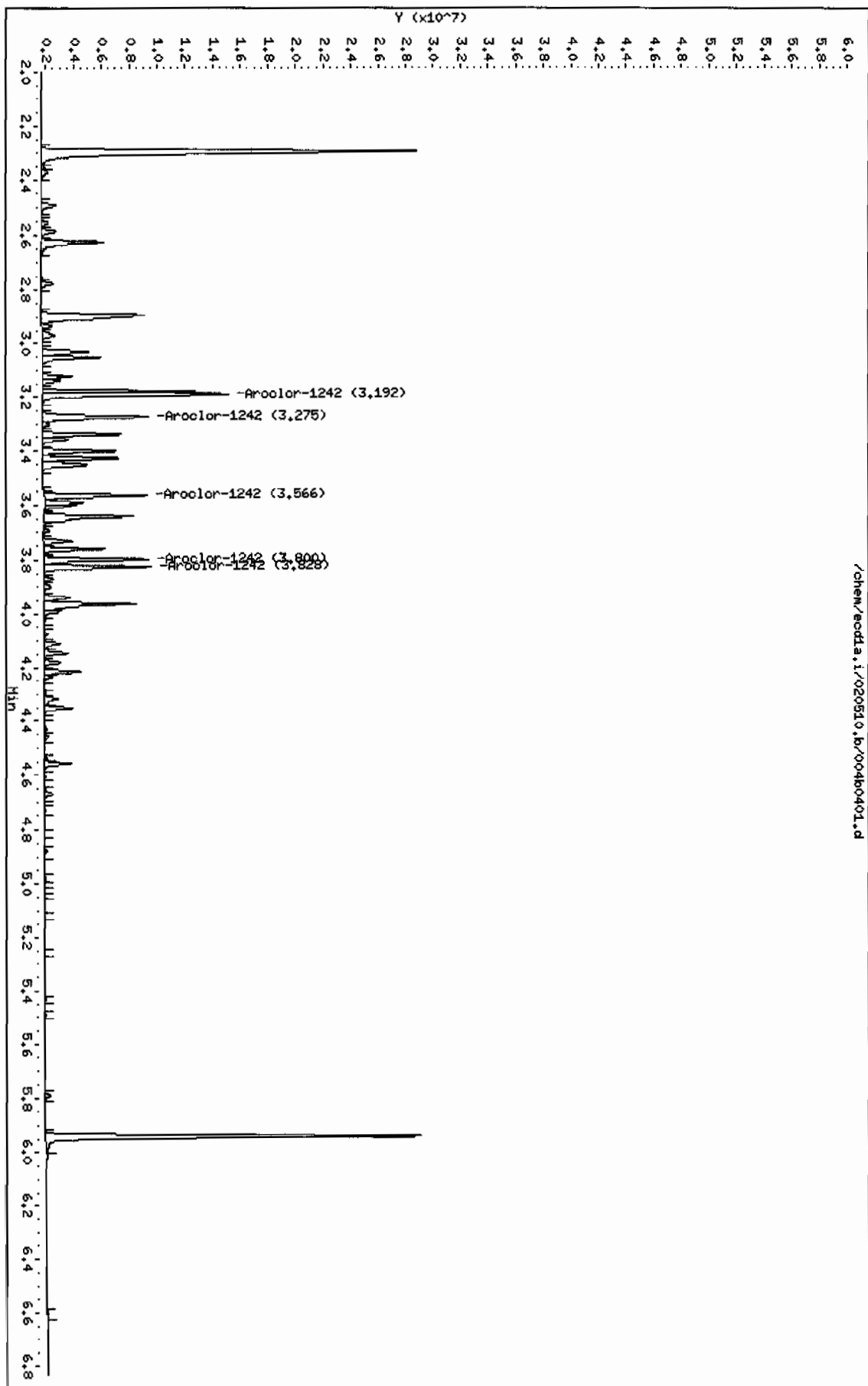
Column Phase: CLP2

Instrument: ecdl.a.i

Operator: YSI

Column diameter: 0.25

/chem/ecdl.a.i/020510.b/00460401.d



Data File: /chem/ecdla.i/020510.b/005f0501.d  
Report Date: 05-Feb-2010 08:30

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/005f0501.d

Lab Smp Id: WAR091217-48 Client Smp ID: AR124801

Inj Date : 05-FEB-2010 07:38

Operator : YS1 Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d

Als bottle: 5 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: AR1248.sub

Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
3.088	3.088	0.000	8241247 1000.00	1050	80.00- 120.00	100.00
3.240	3.240	0.000	7125731 1000.00	1040	66.46- 106.46	86.46
3.291	3.291	0.000	14052338 1000.00	1060	150.51- 190.51	170.51
3.422	3.422	0.000	11222456 1000.00	1020	116.17- 156.17	136.17
3.655	3.655	0.000	7182031 1000.00	963	67.15- 107.15	87.15

Average of Peak Amounts = 1.03e+03

Data File: /chem/ecdl.a.i/020510.b/005f0501.d

Date : 05-FEB-2010 07:38

Client ID: AR124801

Sample Info: 1HAR091217-48

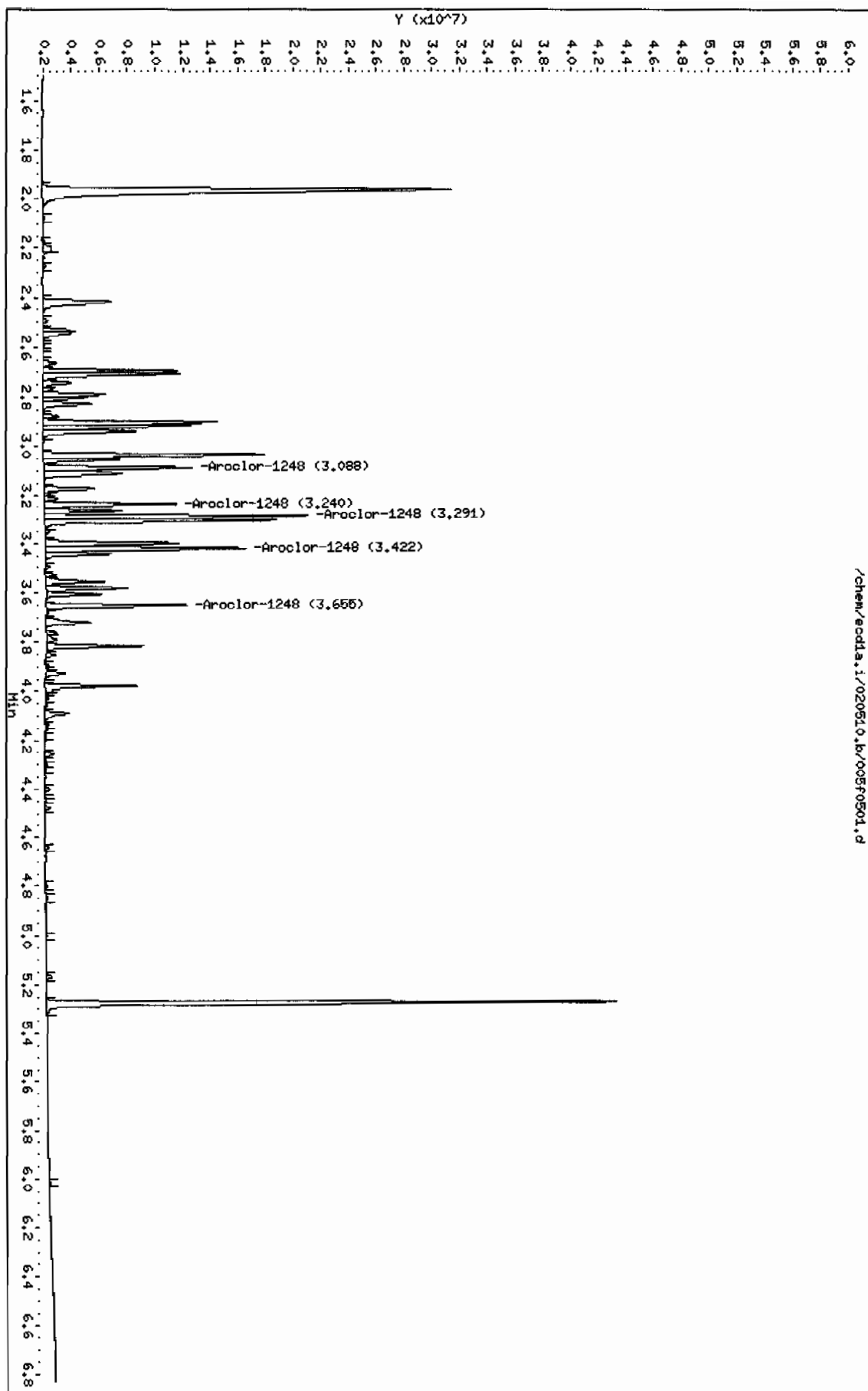
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/020510.b/005f0501.d



Data File: /chem/ecdla.i/020510.b/005b0501.d  
Report Date: 05-Feb-2010 09:40

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/005b0501.d

Lab Smp Id: WAR091217-48 Client Smp ID: AR124801

Inj Date : 05-FEB-2010 07:38

Operator : YS1 Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 09:40 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d

Als bottle: 5 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

5 Aroclor-1248

CAS #: 12672-29-6

3.401	3.401	0.000	7358985 1000.00	914	80.00- 120.00	100.00
3.566	3.566	0.000	9216148 1000.00	933	105.24- 145.24	125.24
3.800	3.800	0.000	10436092 1000.00	930	121.81- 161.81	141.81
3.827	3.827	0.000	11626532 1000.00	931	137.99- 177.99	157.99
3.965	3.965	0.000	11178442 1000.00	924	131.90- 171.90	151.90

Average of Peak Amounts =

926

Data File: /chem/ecdl.a.i/020510.b/005b0501.d

Date : 05-FEB-2010 07:38

Client ID: AR124801

Sample Info: 14AR091217-48

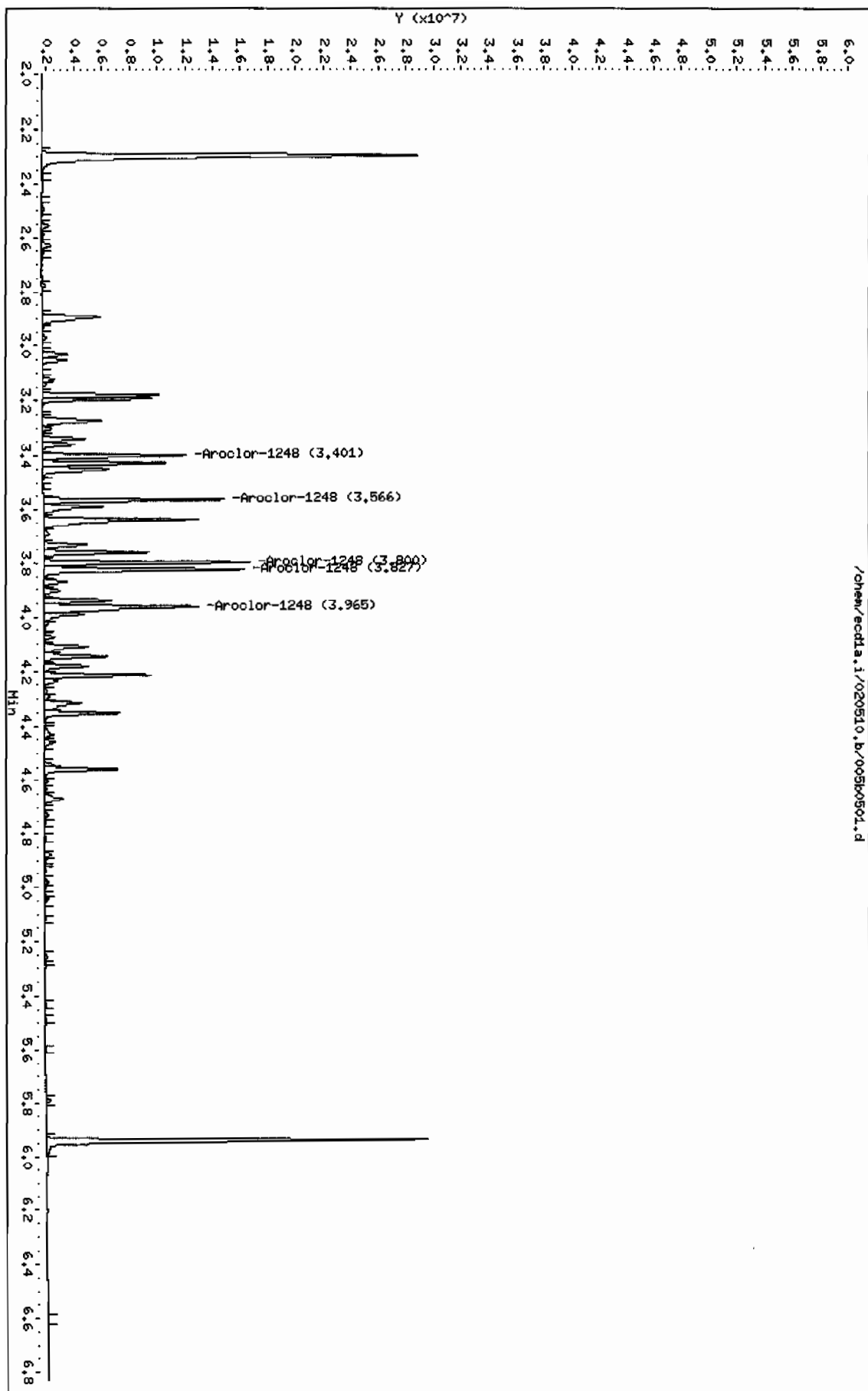
Column phase: CLP2

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/020510.b/005b0501.d





GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/006f0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 05-FEB-2010 07:48

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232

CAS #: 11141-16-5

2.421	2.421	0.000	6684520	1000.00	976 80.00- 120.00	100.00
2.709	2.709	0.000	8973672	1000.00	1060 114.25- 154.25	134.25
2.789	2.789	0.000	5627474	1000.00	1000 64.19- 104.19	84.19
3.038	3.038	0.000	4163606	1000.00	1040 42.29- 82.29	62.29
3.291	3.291	0.000	3786517	1000.00	981 36.65- 76.65	56.65

Average of Peak Amounts = 1.01e+03

Data File: /chem/ecdl.a.i/020510.b/006f0601.d

Date: 05-FEB-2010 07:48

Client ID: AR123201

Sample Info: IMR100104-32

Column Phase: CLP1

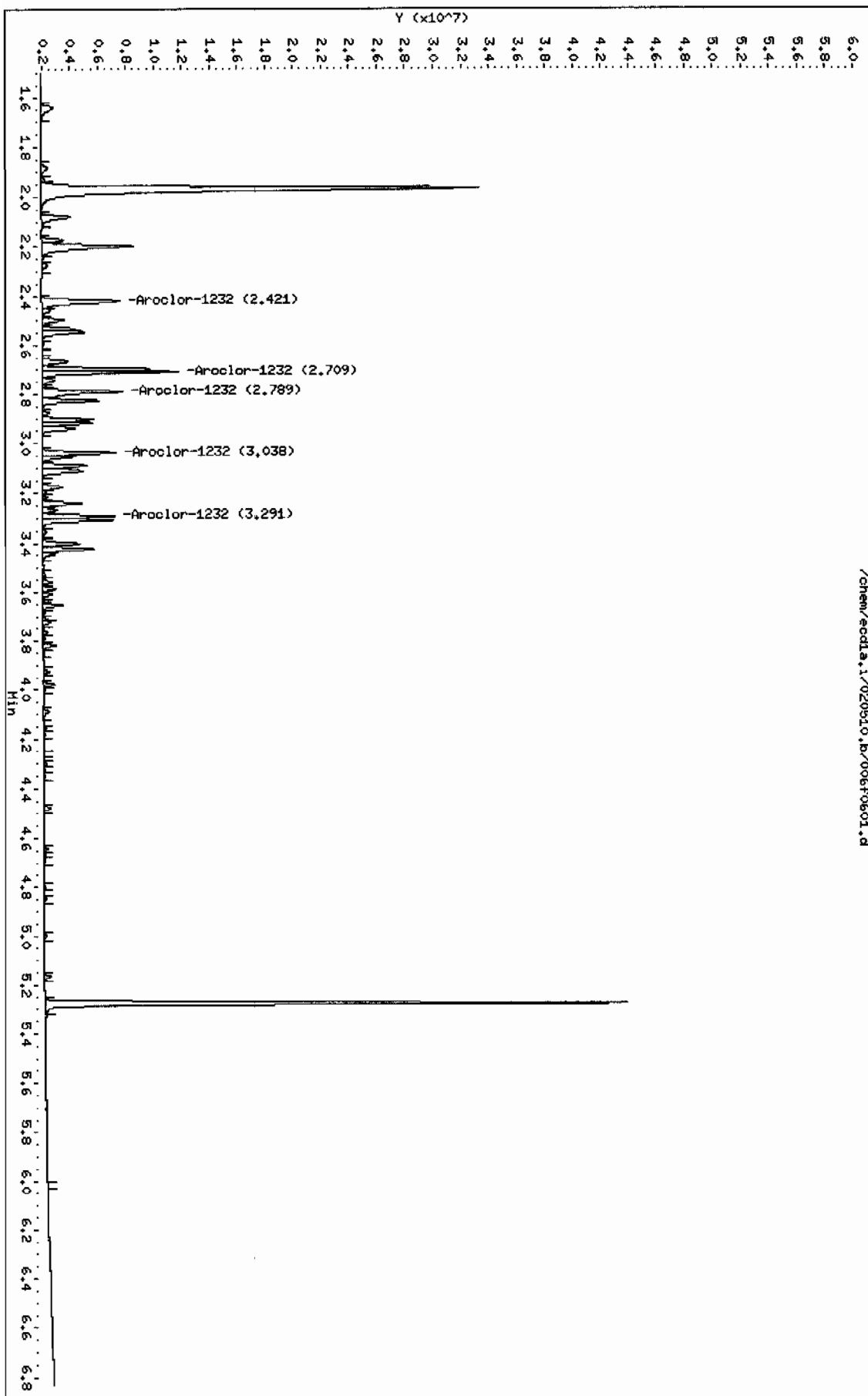
Page 1

Instrument: ecdl.a.i

Operator: YSI

Column diameter: 0.25

/chem/ecdl.a.i/020510.b/006f0601.d



Data File: /chem/ecdl1a.i/020510.b/006b0601.d  
Report Date: 05-Feb-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/006b0601.d  
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201  
Inj Date : 05-FEB-2010 07:48  
Operator : YS1 Inst ID: ecd1a.i  
Smp Info : |WAR100104-32  
Misc Info :  
Comment :  
Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m  
Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD  
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d  
Als bottle: 6 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1232.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

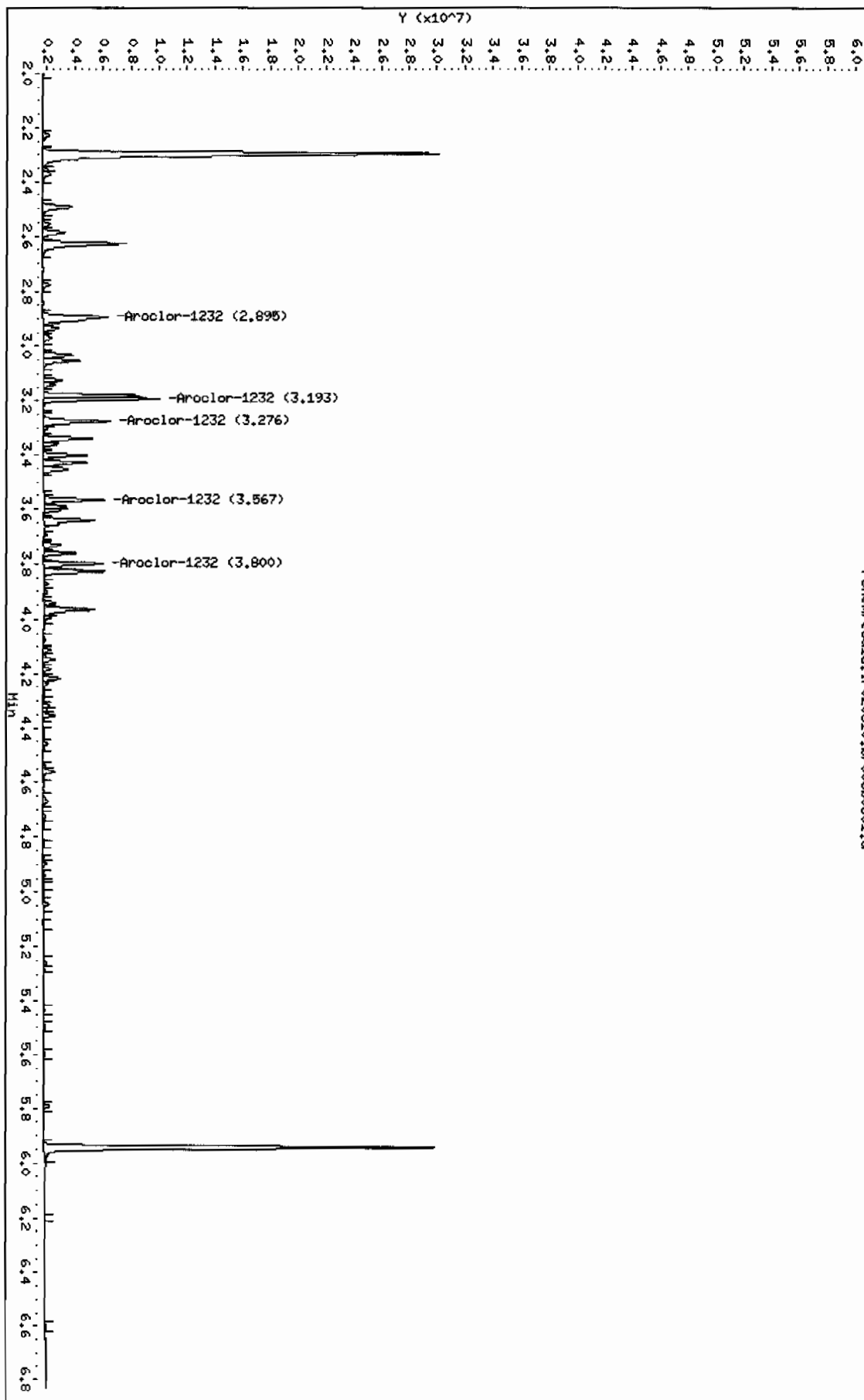
RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
3						
Aroclor-1232			CAS #: 11141-16-5			
2.895	2.895	0.000	5518314 1000.00	937	80.00- 120.00	100.00
3.193	3.193	0.000	6067838 1000.00	975	89.96- 129.96	109.96
3.276	3.276	0.000	4176572 1000.00	961	55.69- 95.69	75.69
3.567	3.567	0.000	3101183 1000.00	997	36.20- 76.20	56.20
3.800	3.800	0.000	3042822 1000.00	953	35.14- 75.14	55.14
Average of Peak Amounts =			965			

Data File: /chem/ecdda.i/020510.b/0060601.d  
Date: 05-FEB-2010 07:48  
Client ID: AR123201  
Sample Info: 14AR100104-32

Column Phase: CLP2

Instrument: ecdda.i  
Operator: YSI  
Column diameter: 0.25

/chem/ecdda.i/020510.b/0060601.d



Data File: /chem/ecd1a.i/020510.b/007f0701.d  
Report Date: 05-Feb-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/020510.b/007f0701.d  
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101  
Inj Date : 05-FEB-2010 07:59  
Operator : YS1 Inst ID: ecd1a.i  
Smp Info : |WAR100104-21  
Misc Info :  
Comment :  
Method : /chem/ecd1a.i/020510.b/ECD1-F-8082-121409.m  
Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD  
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d  
Als bottle: 7 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1221.sub  
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
2.077	2.077	0.000	4201820 1000.00	977	80.00- 120.00	100.00
2.170	2.170	0.000	2263486 1000.00	927	33.87- 73.87	53.87
2.195	2.195	0.000	10281522 1000.00	1000	224.69- 264.69	244.69
Average of Peak Amounts =				968		

Data File: /chem/ecdl1.i/020510.b/007f0701.d

Date : 05-FEB-2010 07:59

Client ID: RK122101

Sample Info: 14MR100104-21

Column phase: CLP1

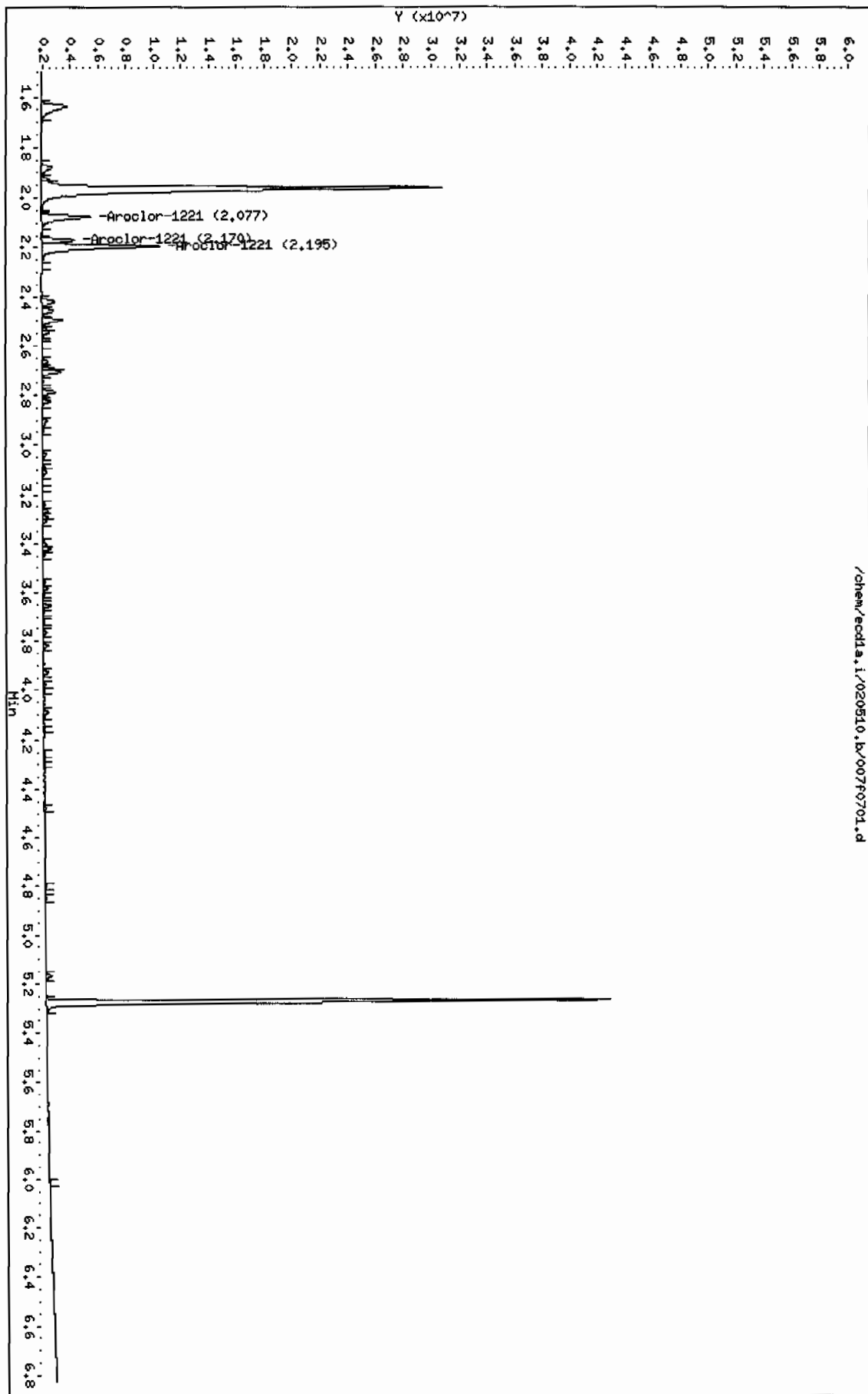
Instrument: ecdl1.i

Operator: YSL

Column diameter: 0.25

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/chem/ecdl1.i/020510.b/007f0701.d



Data File: /chem/ecd1a.i/020510.b/007b0701.d  
Report Date: 05-Feb-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/020510.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR123201

Inj Date : 05-FEB-2010 07:59

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecd1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
2 Aroclor-1221						
CAS #: 11104-28-2						
2.492	2.492	0.000	3283686 1000.00	902	80.00- 120.00	100.00
2.586	2.586	0.000	2130872 1000.00	915	44.89- 84.89	64.89
2.627	2.627	0.000	7321346 1000.00	902	202.96- 242.96	222.96
Average of Peak Amounts =				906		

Data File: /chem/ecdl.a.i/020510.b/007b0701.d

Date : 05-FEB-2010 07:59

Client ID: AR123201

Sample Info: 11AR100104-21

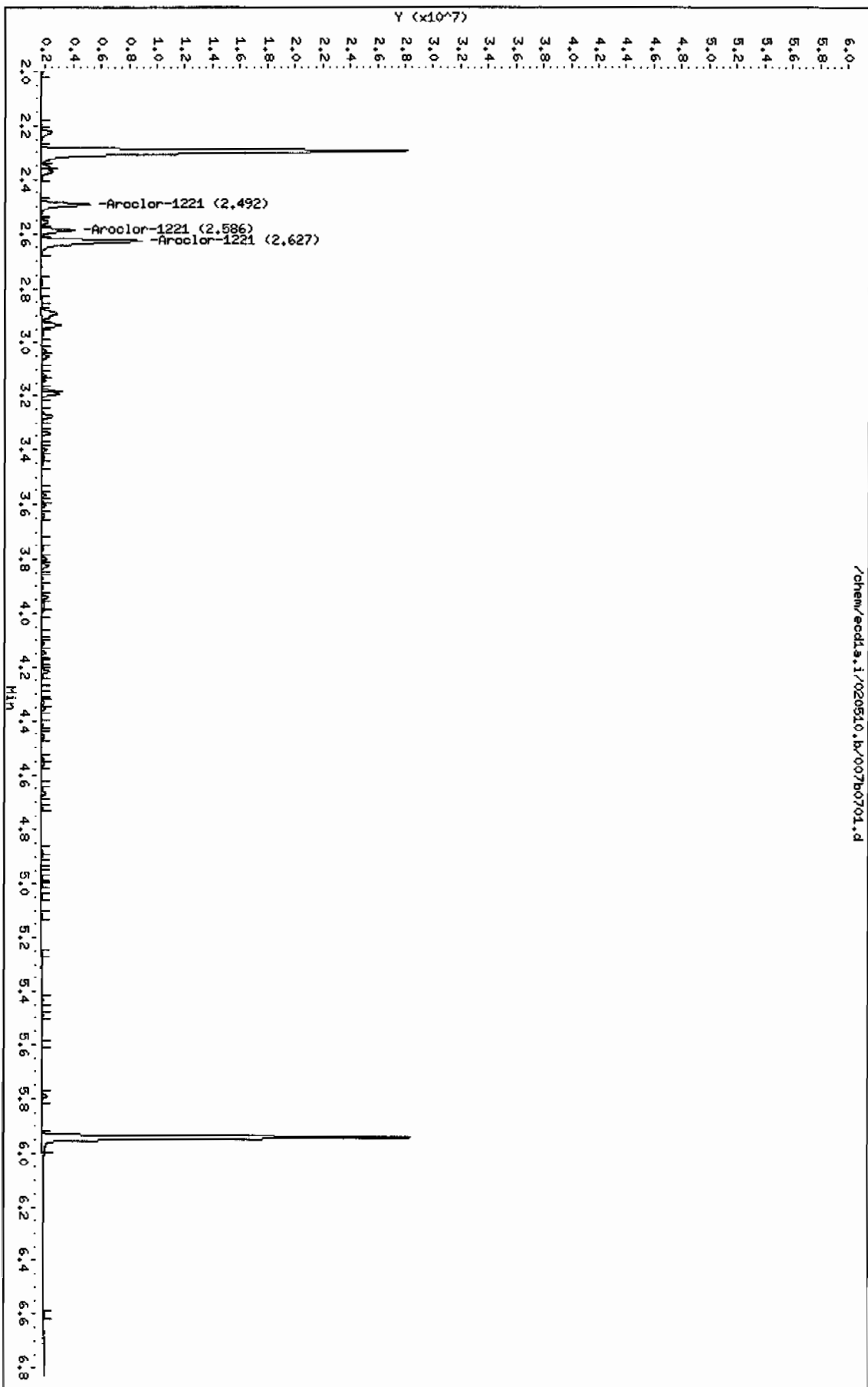
Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

Column phase: CLP2

/chem/ecdl.a.i/020510.b/007b0701.d





Data File: /chem/ecdla.i/020510.b/009f0901.d  
Report Date: 05-Feb-2010 08:41

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/009f0901.d

Lab Smp Id: WAR100107-68

Client Smp ID: AR126801

Inj Date : 05-FEB-2010 08:20

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100107-68

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 9

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1268.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

9 Aroclor-1268

CAS #: 11100-14-4

4.663	4.663	0.000	48680193 1000.00	928	80.00- 120.00	100.00
4.686	4.686	0.000	45876696 1000.00	953	74.24- 114.24	94.24
4.799	4.799	0.000	36431401 1000.00	984	54.84- 94.84	74.84
5.001	5.001	0.000	18070217 1000.00	1110	17.12- 57.12	37.12
5.167	5.167	0.000	120791943 1000.00	1120	228.13- 268.13	248.13

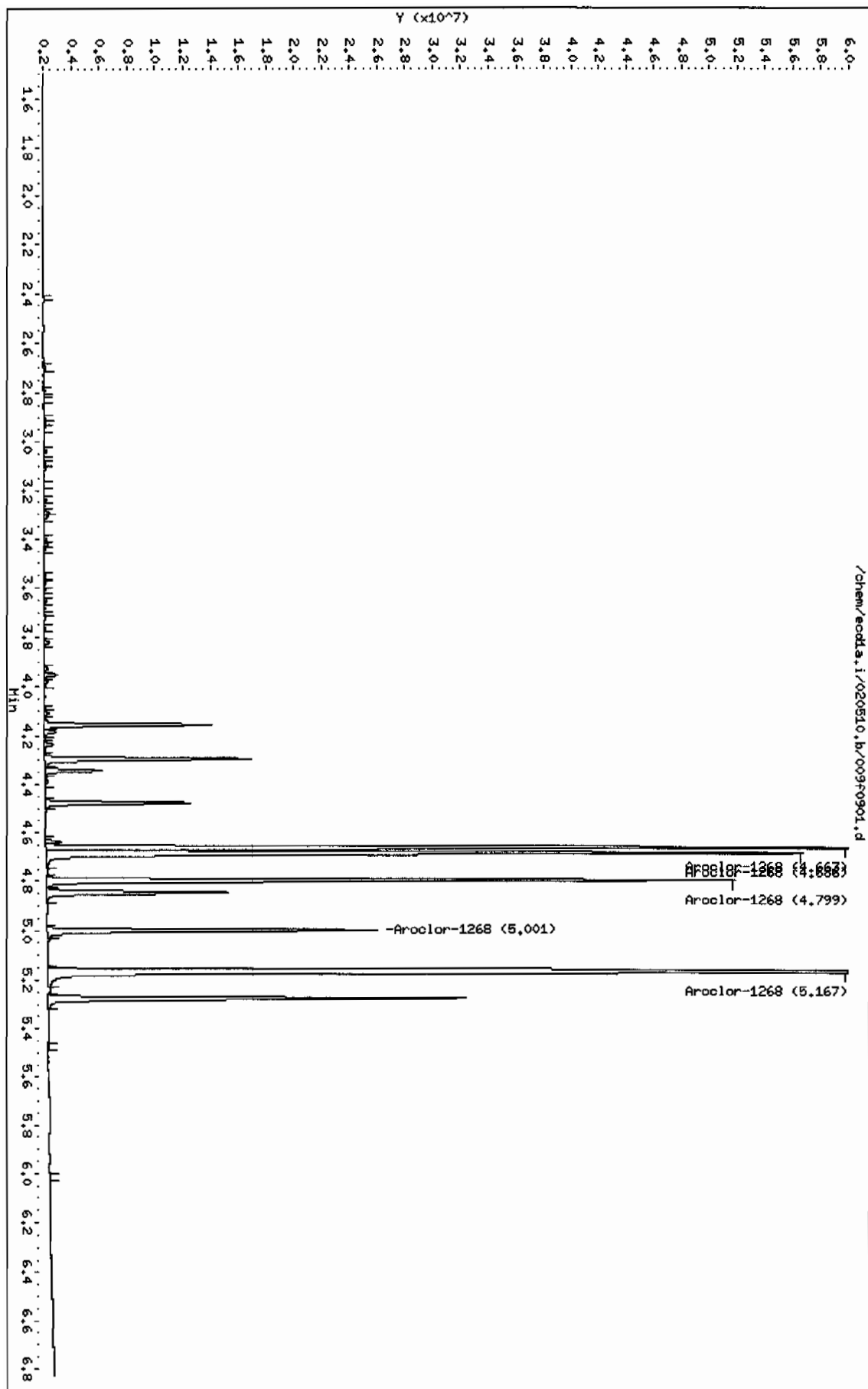
Average of Peak Amounts = 1.02e+03

Data File: /chem/ecdda.i/020510.b/009f0901.d  
Date : 05-FEB-2010 08:20  
Client ID: AR126801  
Sample Info: 1MAR100107-68

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Column phase: CLP1

Instrument: ecdda.i  
Operator: YSL  
Column diameter: 0.25



Data File: /chem/ecdla.i/020510.b/009b0901.d  
Report Date: 05-Feb-2010 08:41

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/009b0901.d

Lab Smp Id: WAR100107-68 Client Smp ID: AR126801

Inj Date : 05-FEB-2010 08:20

Operator : YS1 Inst ID: ecdla.i

Smp Info : |WAR100107-68

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d

Als bottle: 9 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: AR1268.sub

Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

9 Aroclor-1268

CAS #: 11100-14-4

5.255	5.255	0.000	33206637	1000.00	916 80.00- 120.00	100.00
5.283	5.283	0.000	31815831	1000.00	947 75.81- 115.81	95.81
5.433	5.433	0.000	25007381	1000.00	962 55.31- 95.31	75.31
5.598	5.598	0.000	12362596	1000.00	1090 17.23- 57.23	37.23
5.790	5.790	0.000	78842117	1000.00	1180 217.43- 257.43	237.43

Average of Peak Amounts = 1.02e+03

Data File: /chem/ecdl1.i/020510.b/00900901.d  
Date : 05-FEB-2010 08:20  
Client ID: AR126801  
Sample Info: IMR100107-68

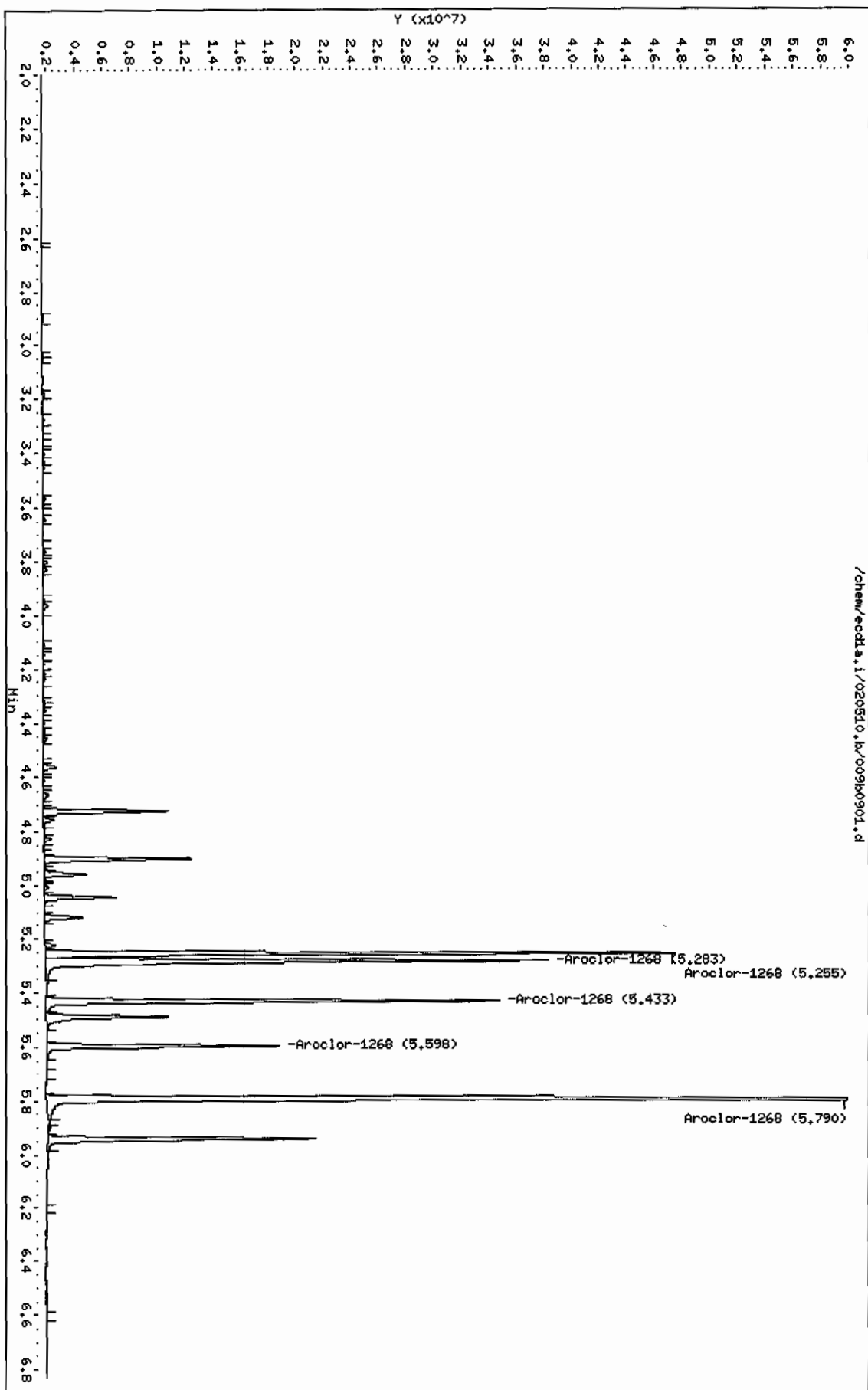
Instrument: ecdl1.i

Page 1

Column phase: CLP2

Operator: YS1  
Column diameter: 0.25

/chem/ecdl1.i/020510.b/00900901.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/022f2201.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 05-FEB-2010 10:51

Operator : YSl

Inst ID: ecdla.i

Smp Info : |WAR100203-60 02

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 08-Feb-2010 09:06 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 22

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
1.965	1.965	0.000	40504102 100.000	102	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.274	5.275	-0.001	32906895 100.000	102	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.420	2.419	0.001	14089870 1000.00	961	80.00- 120.00	100.00
2.707	2.707	0.000	18254738 1000.00	996	106.82- 146.82	129.56
2.787	2.788	-0.001	11539563 1000.00	960	60.66- 100.66	81.90
2.826	2.826	0.000	6922359 1000.00	964	28.59- 68.59	49.13
3.036	3.036	0.000	8923226 1000.00	960	42.97- 82.97	63.33
Average of Peak Amounts =			968			

7 Aroclor-1260				CAS #: 11096-82-5		
3.761	3.762	-0.001	19002907 1000.00	1080	80.00- 120.00	100.00 (M)
3.924	3.925	-0.001	28995739 1000.00	1090	132.12- 172.12	152.59
4.154	4.155	-0.001	17302329 1000.00	1090	70.53- 110.53	91.05
4.297	4.297	0.000	18016442 1000.00	1090	75.55- 115.55	94.81
4.476	4.477	-0.001	41342662 1000.00	1110	197.21- 237.21	217.56
Average of Peak Amounts =			1.09e+03			

Data File: /chem/ecdl1a.i/020510.b/022f2201.d  
Report Date: 08-Feb-2010 10:03

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#### QC Flag Legend

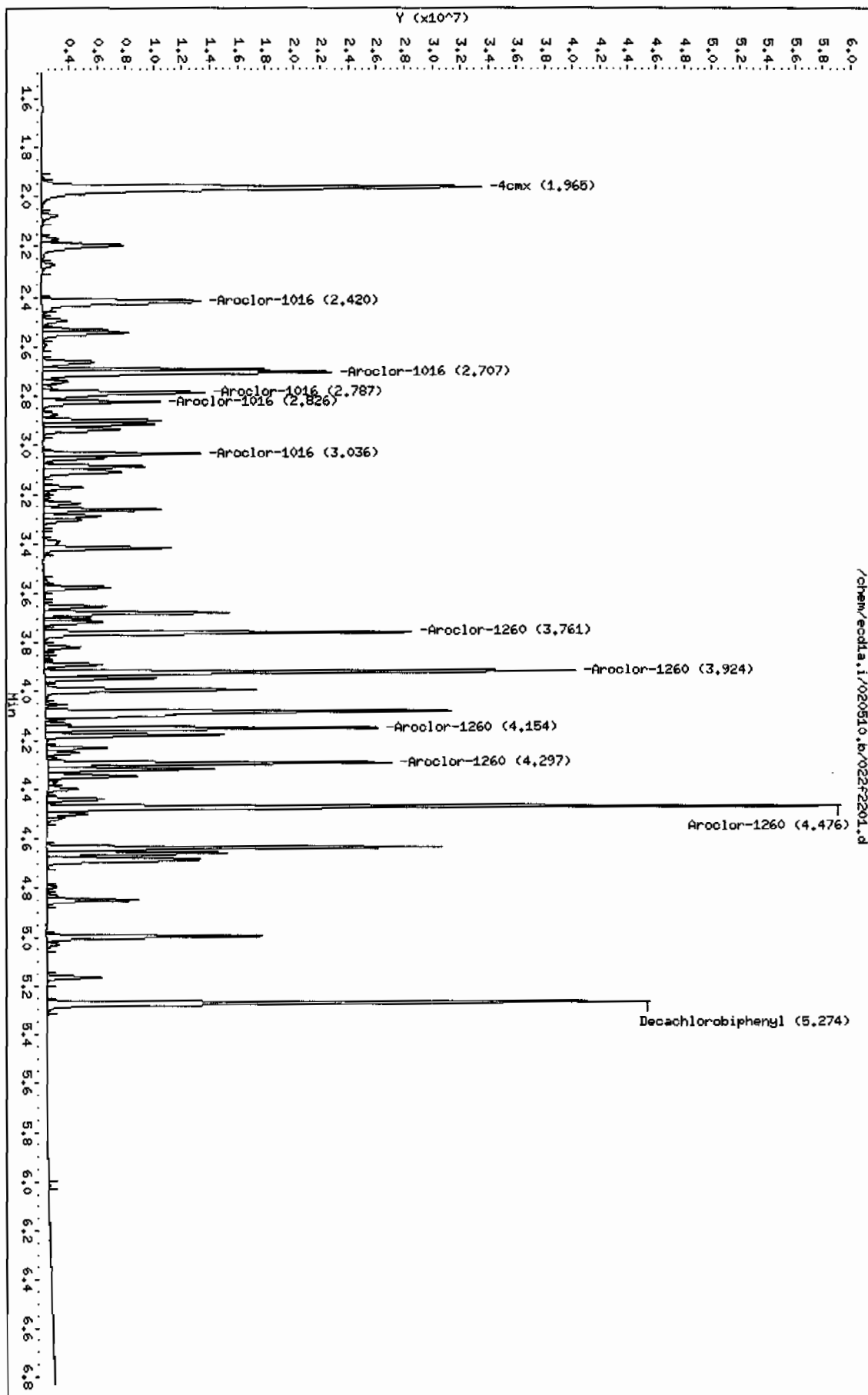
M - Compound response manually integrated.

Data File: /chem/ecdda.i/020510.b/022f2201.d  
Date: 05-FEB-2010 10:51  
Client ID: AR166002  
Sample Info: IMA100203-60 02

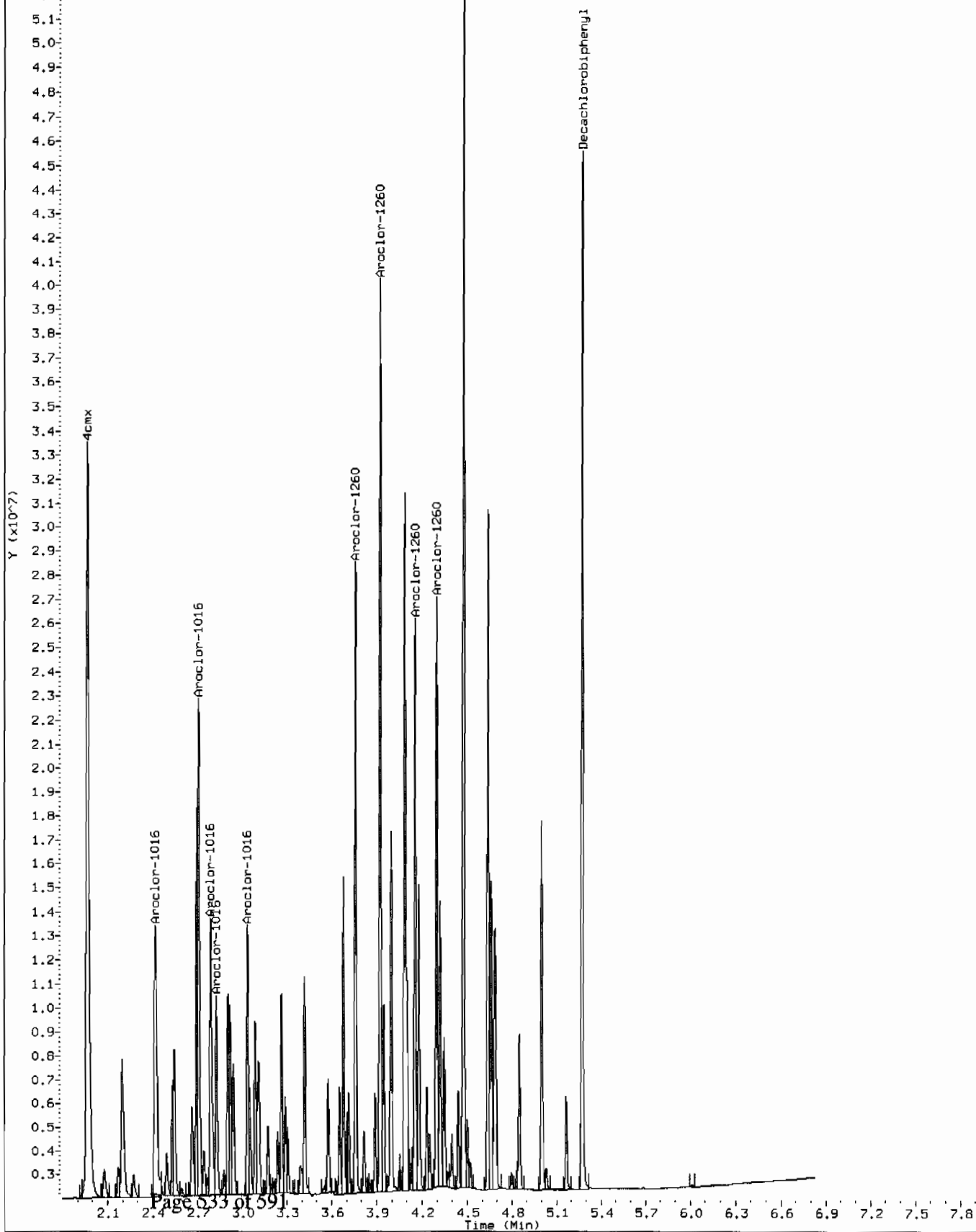
Column Phase: CLP1

Instrument: ecdda.i  
Operator: YSI  
Column diameter: 0.25

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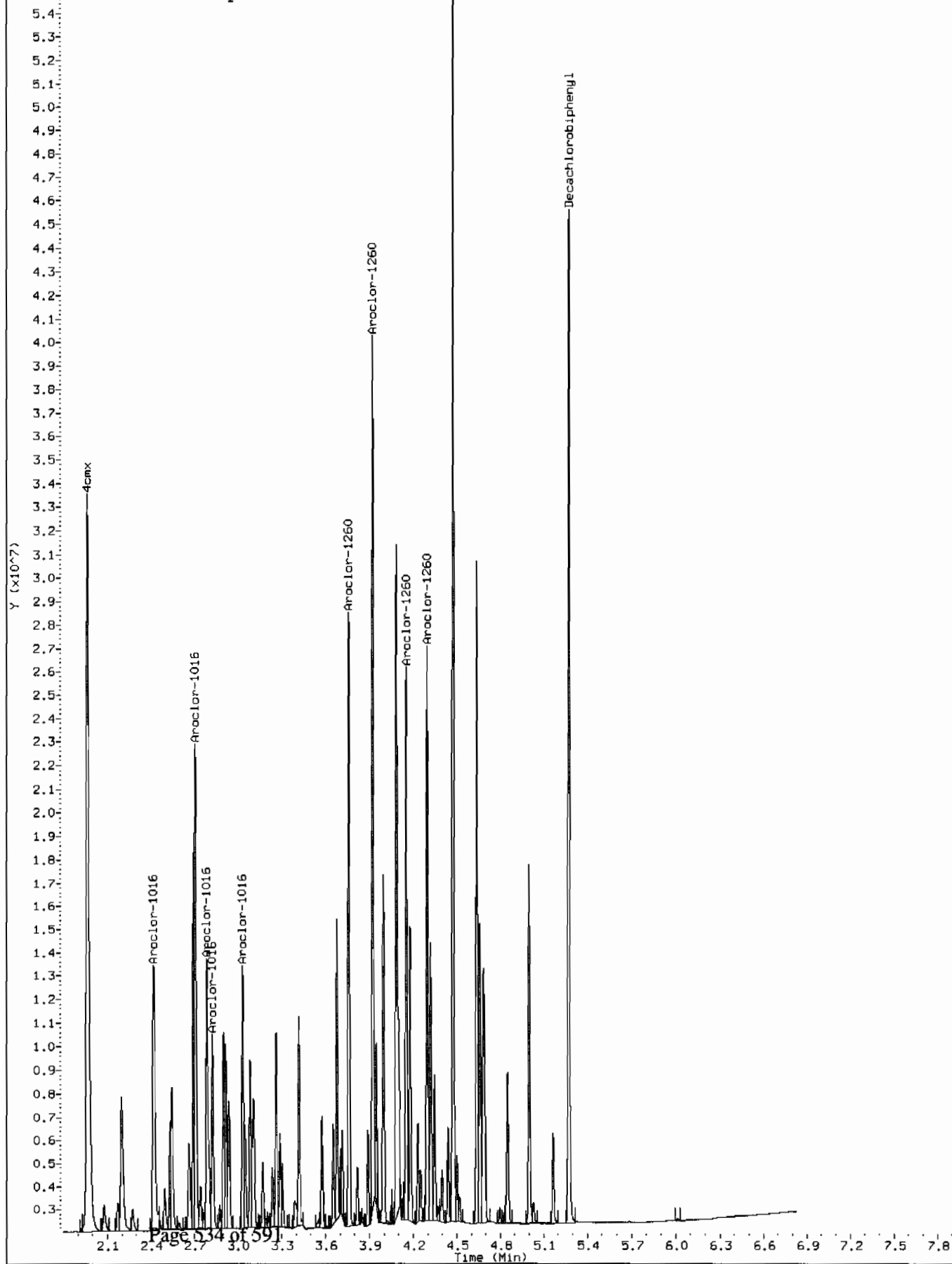


Comment: Manually Integrated  
Data File: /chem/ecdl1.i/020510.b/022f2201.d  
Operator: YS1  
Injection Date: 05-FEB-2010 10:51  
Instrument: ecdl1.i  
Client Sample ID: AR166002





Comment: Before manual integration  
Data File: /chem/ecdl1a.i/020510.b/orig-022f2201.d  
Operator: YS1  
Injection Date: 05-FEB-2010 10:51  
Instrument: ecdl1a.i  
Client Sample ID: AR166002



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/022b2201.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 05-FEB-2010 10:51

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 02

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 11:30 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 22

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	CAL-AMT ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
11.4	11.4	0.001	28991286	100.000	101	80.00- 120.00	100.00

\$ 11 4cmx CAS #: 877-09-8  
2.297 2.296 0.001 28991286 100.000 101 80.00- 120.00 100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3  
5.941 5.942 -0.001 22228765 100.000 102 80.00- 120.00 100.00

1 Aroclor-1016 CAS #: 12674-11-2  
3.192 3.192 0.000 12553096 1000.00 1000 80.00- 120.00 100.00  
3.275 3.275 0.000 8166105 1000.00 955 45.05- 85.05 65.05  
3.338 3.339 -0.001 5045053 1000.00 954 20.19- 60.19 40.19  
3.565 3.565 0.000 6628313 1000.00 973 32.80- 72.80 52.80  
3.641 3.641 0.000 6123429 1000.00 956 28.78- 68.78 48.78  
Average of Peak Amounts = 969

7 Aroclor-1260 CAS #: 11096-82-5  
4.331 4.332 -0.001 13388385 1000.00 1060 80.00- 120.00 100.00  
4.456 4.457 -0.001 16291509 1000.00 1070 101.68- 141.68 121.68  
4.722 4.722 0.000 12420564 1000.00 1070 72.77- 112.77 92.77  
4.896 4.896 0.000 12892265 1000.00 1070 76.29- 116.29 96.29  
5.042 5.043 -0.001 28894660 1000.00 1110 195.82- 235.82 215.82  
Average of Peak Amounts = 1.07e+03

Data File: /chem/ecdl1.i/020510.b/02h2201.d

Date: 05-FEB-2010 10:51

Client ID: AR166002

Sample Info: IMR100203-60 02

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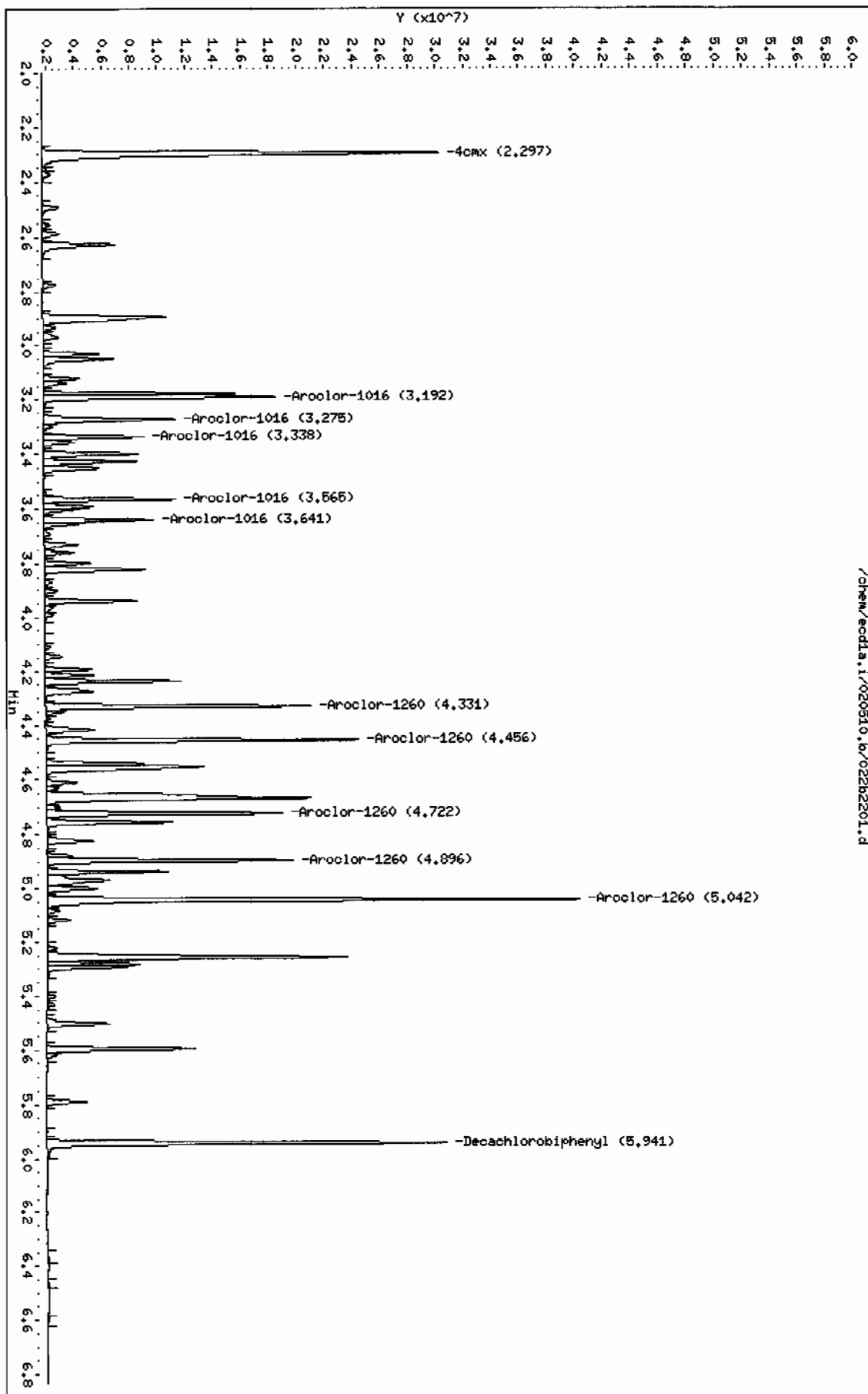
Instrument: ecdl1.i

Operator: YSL

Column diameter: 0.25

Column phase: CLP2

/chem/ecdl1.i/020510.b/02h2201.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/031f3101.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 05-FEB-2010 12:40

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 03

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 13:50 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 31

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	( ug/L)	( ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.966	1.965	0.001	40459975	100.000	101	80.00- 120.00	100.00
-----							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.274	5.275	-0.001	32629917	100.000	101	80.00- 120.00	100.00
-----							
1 Aroclor-1016					CAS #: 12674-11-2		
2.420	2.419	0.001	14012607	1000.00	956	80.00- 120.00	100.00
2.708	2.707	0.001	18319018	1000.00	1000	110.73- 150.73	130.73
2.788	2.788	0.000	11547800	1000.00	960	62.41- 102.41	82.41
2.826	2.826	0.000	6929943	1000.00	965	29.46- 69.46	49.46
3.036	3.036	0.000	8939714	1000.00	962	43.80- 83.80	63.80
Average of Peak Amounts =					969		
-----							
7 Aroclor-1260					CAS #: 11096-82-5		
3.761	3.762	-0.001	18972126	1000.00	1080	80.00- 120.00	100.00
3.924	3.925	-0.001	28835947	1000.00	1080	131.99- 171.99	151.99
4.154	4.155	-0.001	17204186	1000.00	1080	70.68- 110.68	90.68
4.297	4.297	0.000	18148577	1000.00	1100	75.66- 115.66	95.66
4.476	4.477	-0.001	41262621	1000.00	1110	197.49- 237.49	217.49
Average of Peak Amounts =					1.09e+03		

Data File: /chem/eodla.i/020510.b/031f3101.d

Date: 05-FEB-2010 12:40

Client ID: PR166003

Sample Info: WAF000203-60 03

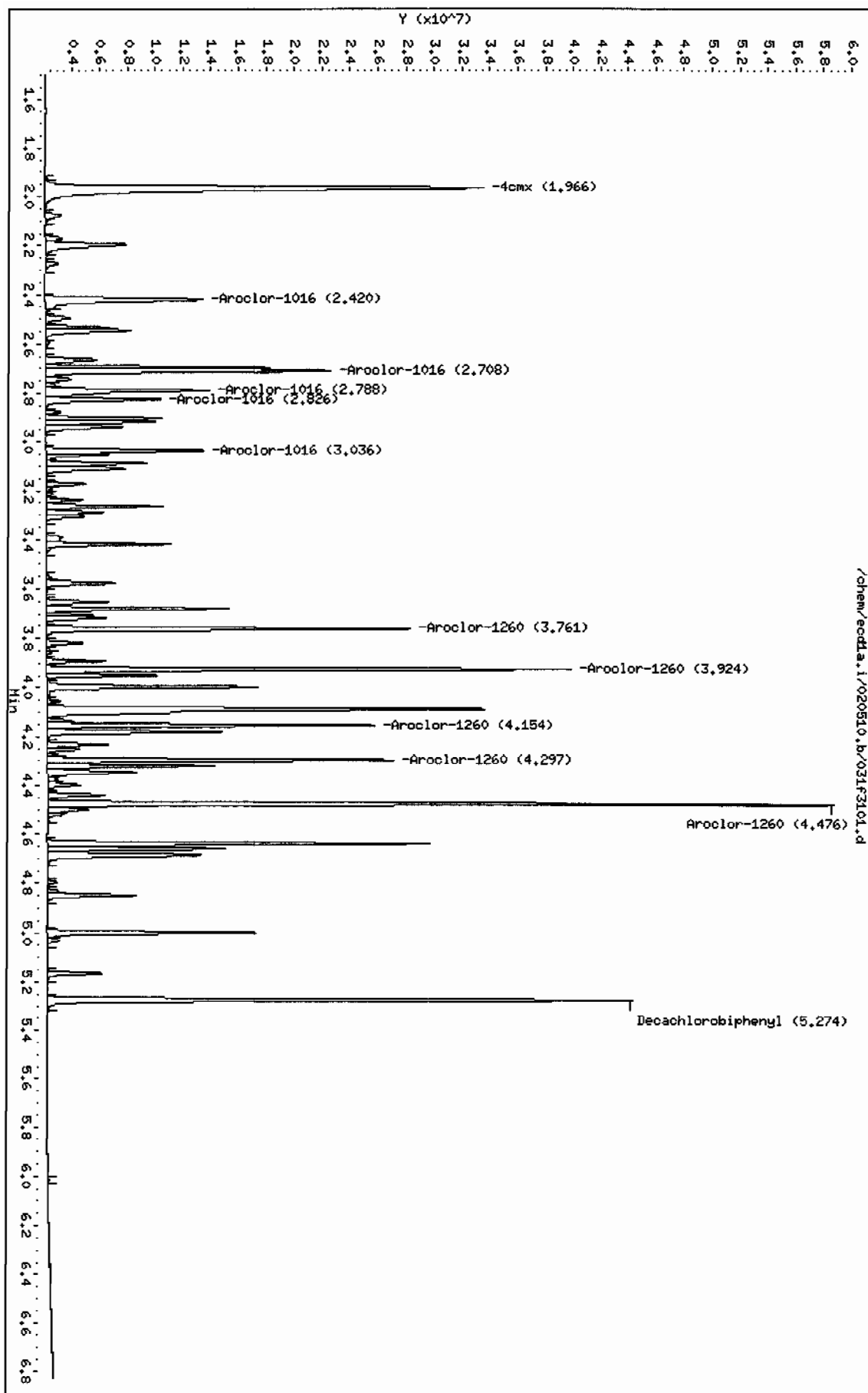
Column phase: CLP1

Instrument: eodla.i

Operator: YSI

Column diameter: 0.25

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Data File: /chem/ecdl1a.i/020510.b/031b3101.d  
 Report Date: 05-Feb-2010 13:51

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/031b3101.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 05-FEB-2010 12:40

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 03

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 13:50 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 31

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
2.297	2.296	0.001	28690788 100.000	99.9	80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.941	5.942	-0.001	21926681 100.000	101	80.00- 120.00	100.00	
-----							
1 Aroclor-1016				CAS #: 12674-11-2			
3.192	3.192	0.000	12359615 1000.00	990	80.00- 120.00	100.00 (M)	
3.275	3.275	0.000	8069931 1000.00	944	45.29- 85.29	65.29	
3.338	3.339	-0.001	4988684 1000.00	943	20.36- 60.36	40.36	
3.565	3.565	0.000	6345906 1000.00	931	31.34- 71.34	51.34	
3.641	3.641	0.000	6017327 1000.00	940	38.11- 78.11	58.11	
Average of Peak Amounts =				950			
-----							
7 Aroclor-1260				CAS #: 11096-82-5			
4.331	4.332	-0.001	13242341 1000.00	1050	80.00- 120.00	100.00	
4.456	4.457	-0.001	16223303 1000.00	1060	102.51- 142.51	122.51	
4.722	4.722	0.000	12301397 1000.00	1060	72.89- 112.89	92.89	
4.895	4.896	-0.001	12694909 1000.00	1050	75.87- 115.87	95.87	
5.043	5.043	0.000	28307638 1000.00	1080	193.77- 233.77	213.77	
Average of Peak Amounts =				1.06e+03			

Data File: /chem/ecdl1a.i/020510.b/031b3101.d  
Report Date: 05-Feb-2010 13:51

Page 2

#### QC Flag Legend

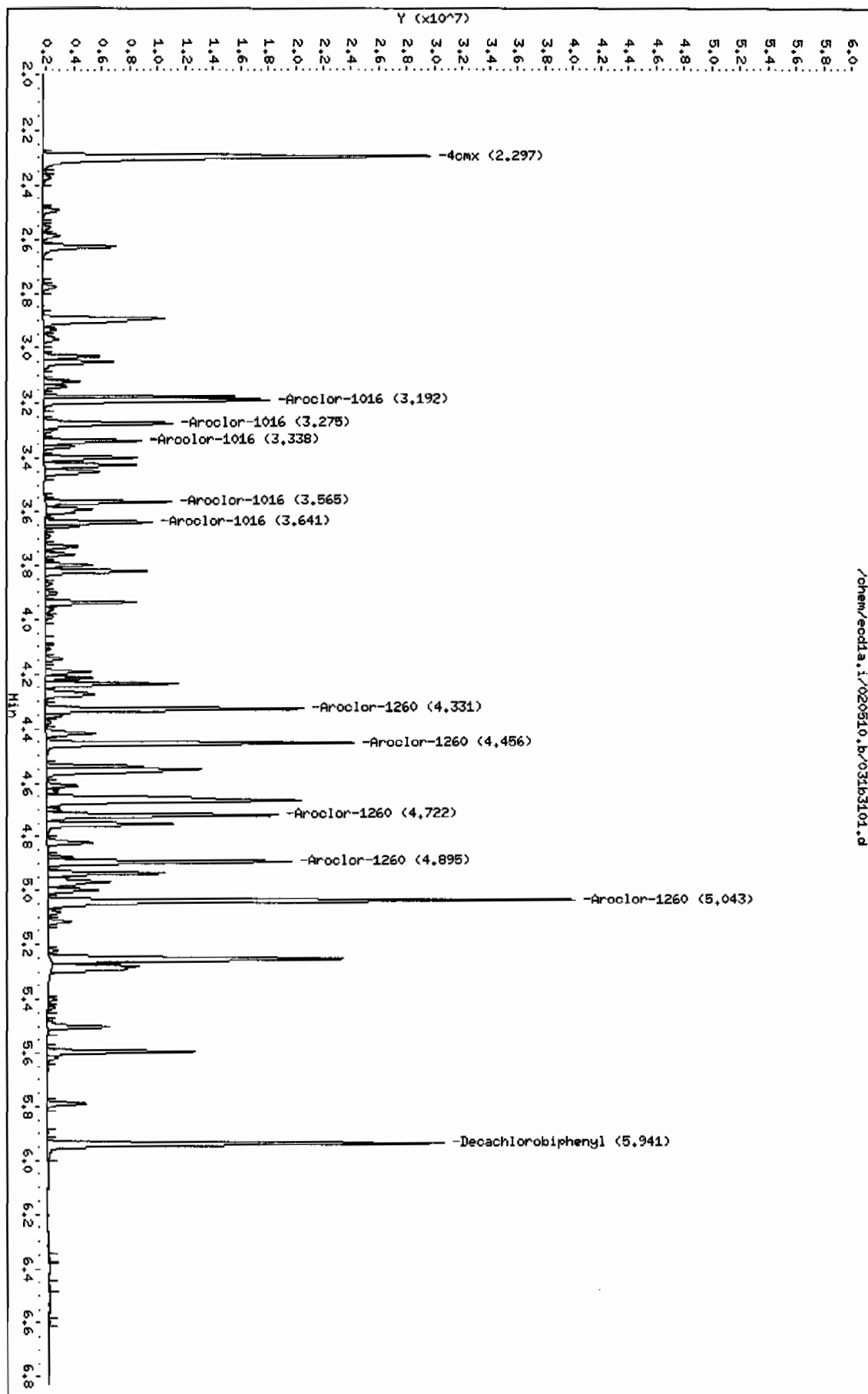
M - Compound response manually integrated.

Data File: /chem/eod1a.i/020510.b/031b3101.d  
Date: 05-FEB-2010 12:40  
Client ID: AR166003  
Sample Info: IWAFL00203-60 03

Column phase: CLP2

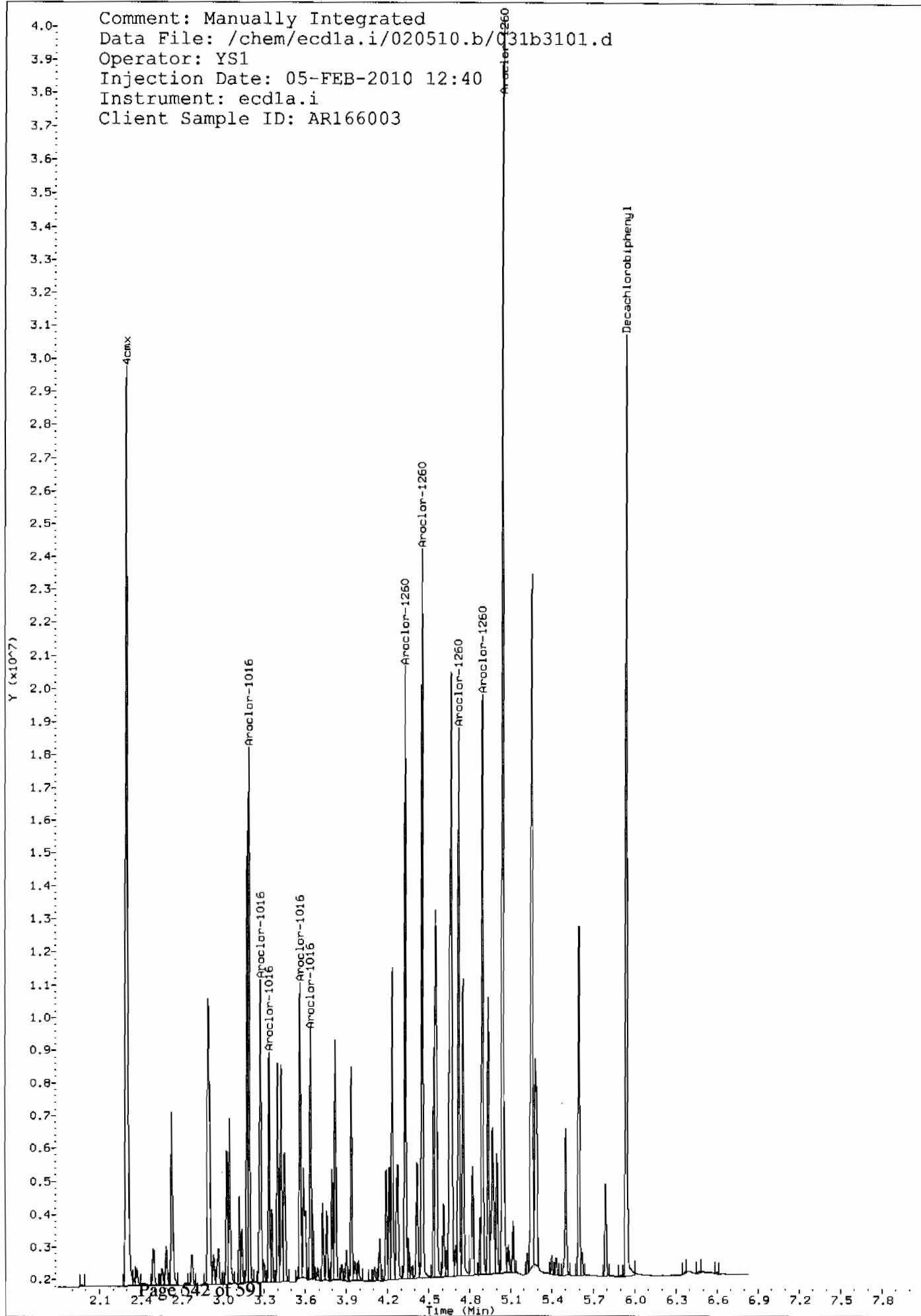
Instrument: eod1a.i  
Operator: YSI  
Column diameter: 0.25

/chem/eod1a.i/020510.b/031b3101.d

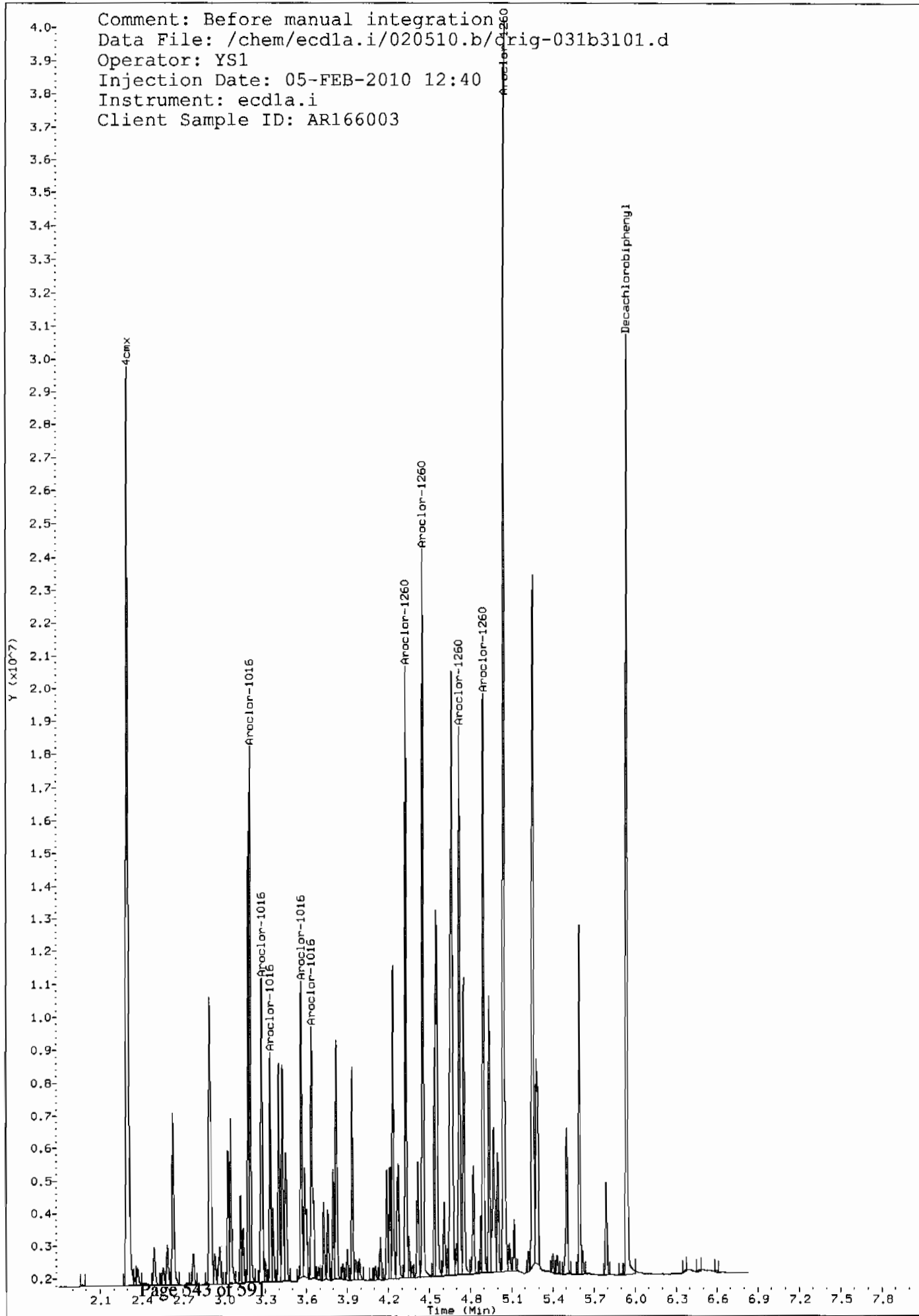




Comment: Manually Integrated  
Data File: /chem/ecdl1.i/020510.b/031b3101.d  
Operator: YS1  
Injection Date: 05-FEB-2010 12:40  
Instrument: ecdl1.i  
Client Sample ID: AR166003



Comment: Before manual integration  
Data File: /chem/ecdl1.i/020510.b/orig-031b3101.d  
Operator: YS1  
Injection Date: 05-FEB-2010 12:40  
Instrument: ecdl1.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.: 10-1473

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.97				DCB: 5.29			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	SI RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	12/14/09	0444	1.97	5.29	
02	ZZZZZ	ZZZZZ	12/14/09	0454	1.97	5.29	
03	ZZZZZ	ZZZZZ	12/14/09	0505	1.97	5.29	
04	ZZZZZ	ZZZZZ	12/14/09	0515	1.97	5.29	
05	ZZZZZ	ZZZZZ	12/14/09	0526	1.97	5.29	
06	AR123201	WAR090930-32	12/14/09	0536	1.97	5.29	
07	AR122101	WAR090803-21	12/14/09	0547	1.97	5.29	
08	AR126201	WAR090803-62	12/14/09	0558	1.97	5.29	
09	ZZZZZ	ZZZZZ	12/14/09	0608	1.97	5.29	
10	ZZZZZ	ZZZZZ	12/14/09	0619	1.97	5.29	
11	ZZZZZ	ZZZZZ	12/14/09	0629	1.97	5.29	
12	ZZZZZ	ZZZZZ	12/14/09	0640	1.97	5.29	
13	ZZZZZ	ZZZZZ	12/14/09	0650	1.97	5.29	
14	ZZZZZ	ZZZZZ	12/14/09	0701	1.97	5.29	
15	ZZZZZ	ZZZZZ	12/14/09	0711	1.97	5.29	
16	AR125401	WAR091214-05	12/14/09	0722	1.97	5.29	
17	AR125402	WAR091214-06	12/14/09	0732	1.97	5.29	
18	AR125403	WAR091214-07	12/14/09	0743	1.97	5.29	
19	AR125404	WAR091214-08	12/14/09	0753	1.97	5.29	
20	AR125405	IAR091027-01	12/14/09	0804	1.97	5.29	
21	AR125401	WAR091102-54	12/14/09	0814	1.97	5.29	
22	AR124201	WAR091214-09	12/14/09	0825	1.97	5.29	
23	AR124202	WAR091214-10	12/14/09	0835	1.97	5.29	
24	AR124203	WAR091214-11	12/14/09	0846	1.97	5.29	
25	AR124204	WAR091214-12	12/14/09	0856	1.97	5.29	
26	AR124205	IAR0911111-0	12/14/09	0907	1.97	5.29	
27	AR124201	WAR091102-42	12/14/09	0917	1.97	5.29	
28	AR124801	WAR091214-13	12/14/09	0928	1.97	5.29	
29	AR124802	WAR091214-14	12/14/09	0938	1.97	5.29	
30	AR124803	WAR091214-15	12/14/09	0949	1.97	5.29	
31	AR124804	WAR091214-16	12/14/09	0959	1.97	5.29	
32	AR124805	IAR091027-02	12/14/09	1010	1.97	5.29	

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.: 10-1473

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.97			DCB: 5.29			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
01	AR124801	WAR091027-48	12/14/09	1020	1.97	5.29
02	AR166001	WAR091214-01	12/14/09	1031	1.97	5.29
03	AR166002	WAR091214-02	12/14/09	1041	1.97	5.29
04	AR166003	WAR091214-03	12/14/09	1052	1.97	5.29
05	AR166004	WAR091214-04	12/14/09	1102	1.97	5.29
06	AR166005	IAR091102-01	12/14/09	1113	1.97	5.29
07	AR166001	WAR091211-60	12/14/09	1123	1.97	5.29
08	AR126801	WAR091214-17	12/14/09	1134	1.97	5.29
09	AR126802	WAR091214-18	12/14/09	1144	1.97	5.29
10	AR126803	WAR091214-19	12/14/09	1155	1.97	5.29
11	AR126804	WAR091214-20	12/14/09	1206	1.97	5.29
12	AR126805	IAR090817-02	12/14/09	1216	1.97	5.29
13	AR126801	WAR091106-68	12/14/09	1227	1.97	5.29
14	DDTANALOGSTD	WAR091020-DD	12/14/09	1237		
15	PIBLK02	WAR091130-99	12/14/09	1248	1.97	5.29
16	ZZZZZ	ZZZZZ	12/14/09	1258	1.97	5.29
17	ZZZZZ	ZZZZZ	12/14/09	1309	1.97	5.29
18	ZZZZZ	ZZZZZ	12/14/09	1319	1.97	5.29
19	ZZZZZ	ZZZZZ	12/14/09	1330	1.97	5.29
20	ZZZZZ	ZZZZZ	12/14/09	1340	1.97	5.29
21	ZZZZZ	ZZZZZ	12/14/09	1351	1.97	5.29
22	ZZZZZ	ZZZZZ	12/14/09	1403	1.97	5.29
23	ZZZZZ	ZZZZZ	12/14/09	1416	1.97	5.29
24	ZZZZZ	ZZZZZ	12/14/09	1429	1.97	5.29
25	ZZZZZ	ZZZZZ	12/14/09	1441	1.97	5.29
26	AR166002	WAR091211-60	12/14/09	1452	1.97	5.29
27	PIBLK03	WAR091130-99	12/14/09	1502	1.97	5.29
28	ZZZZZ	ZZZZZ	12/14/09	1513	1.97	5.29
29	ZZZZZ	ZZZZZ	12/14/09	1525	1.97	5.29
30	ZZZZZ	ZZZZZ	12/14/09	1538	1.97	5.29
31	ZZZZZ	ZZZZZ	12/14/09	1551	1.97	5.29
32	ZZZZZ	ZZZZZ	12/14/09	1603	1.97	5.27

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.: 10-1473

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.30				DCB: 5.94			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	PIBLK01	WAR091130-99	12/14/09 0444	2.30	5.95		
02	ZZZZZ	ZZZZZ	12/14/09 0454	2.30	5.94		
03	ZZZZZ	ZZZZZ	12/14/09 0505	2.30	5.95		
04	ZZZZZ	ZZZZZ	12/14/09 0515	2.30	5.95		
05	ZZZZZ	ZZZZZ	12/14/09 0526	2.30	5.95		
06	AR123201	WAR090930-32	12/14/09 0536	2.30	5.95		
07	AR122101	WAR090803-21	12/14/09 0547	2.30	5.95		
08	AR126201	WAR090803-62	12/14/09 0558	2.30	5.94		
09	ZZZZZ	ZZZZZ	12/14/09 0608	2.30	5.94		
10	ZZZZZ	ZZZZZ	12/14/09 0619	2.30	5.95		
11	ZZZZZ	ZZZZZ	12/14/09 0629	2.30	5.94		
12	ZZZZZ	ZZZZZ	12/14/09 0640	2.30	5.94		
13	ZZZZZ	ZZZZZ	12/14/09 0650	2.30	5.95		
14	ZZZZZ	ZZZZZ	12/14/09 0701	2.30	5.94		
15	ZZZZZ	ZZZZZ	12/14/09 0711	2.30	5.95		
16	AR125401	WAR091214-05	12/14/09 0722	2.30	5.94		
17	AR125402	WAR091214-06	12/14/09 0732	2.30	5.94		
18	AR125403	WAR091214-07	12/14/09 0743	2.30	5.94		
19	AR125404	WAR091214-08	12/14/09 0753	2.30	5.94		
20	AR125405	IAR091027-01	12/14/09 0804	2.30	5.95		
21	AR125401	WAR091102-54	12/14/09 0814	2.30	5.94		
22	AR124201	WAR091214-09	12/14/09 0825	2.30	5.94		
23	AR124202	WAR091214-10	12/14/09 0835	2.30	5.94		
24	AR124203	WAR091214-11	12/14/09 0846	2.30	5.94		
25	AR124204	WAR091214-12	12/14/09 0856	2.30	5.94		
26	AR124205	IAR0911111-0	12/14/09 0907	2.30	5.94		
27	AR124201	WAR091102-42	12/14/09 0917	2.30	5.94		
28	AR124801	WAR091214-13	12/14/09 0928	2.30	5.94		
29	AR124802	WAR091214-14	12/14/09 0938	2.30	5.94		
30	AR124803	WAR091214-15	12/14/09 0949	2.30	5.94		
31	AR124804	WAR091214-16	12/14/09 0959	2.30	5.94		
32	AR124805	IAR091027-02	12/14/09 1010	2.30	5.94		

S1 = 4cmx  
DCB = Decachlorobiphenyl

QC LIMITS  
(+/- 0.03 MINUTES)  
(+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.30				DCB: 5.94			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	AR124801	WAR091027-48	12/14/09	1020	2.30		5.95
02	AR166001	WAR091214-01	12/14/09	1031	2.30		5.94
03	AR166002	WAR091214-02	12/14/09	1041	2.30		5.94
04	AR166003	WAR091214-03	12/14/09	1052	2.30		5.94
05	AR166004	WAR091214-04	12/14/09	1102	2.30		5.94
06	AR166005	IAR091102-01	12/14/09	1113	2.30		5.94
07	AR166001	WAR091211-60	12/14/09	1123	2.30		5.94
08	AR126801	WAR091214-17	12/14/09	1134			
09	AR126802	WAR091214-18	12/14/09	1144			
10	AR126803	WAR091214-19	12/14/09	1155			
11	AR126804	WAR091214-20	12/14/09	1206			
12	AR126805	IAR090817-02	12/14/09	1216			
13	AR126801	WAR091106-68	12/14/09	1227	2.30		5.94
14	DDTANALOGSTD	WAR091020-DD	12/14/09	1237			
15	PIBLK02	WAR091130-99	12/14/09	1248	2.30		5.94
16	ZZZZZ	ZZZZZ	12/14/09	1258	2.30		5.94
17	ZZZZZ	ZZZZZ	12/14/09	1309	2.30		5.94
18	ZZZZZ	ZZZZZ	12/14/09	1319	2.30		5.94
19	ZZZZZ	ZZZZZ	12/14/09	1330	2.30		5.94
20	ZZZZZ	ZZZZZ	12/14/09	1340	2.30		5.94
21	ZZZZZ	ZZZZZ	12/14/09	1351	2.30		5.94
22	ZZZZZ	ZZZZZ	12/14/09	1403	2.30		5.94
23	ZZZZZ	ZZZZZ	12/14/09	1416	2.30		5.94
24	ZZZZZ	ZZZZZ	12/14/09	1429	2.30		5.94
25	ZZZZZ	ZZZZZ	12/14/09	1441	2.30		5.94
26	AR166002	WAR091211-60	12/14/09	1452	2.30		5.94
27	PIBLK03	WAR091130-99	12/14/09	1502	2.30		5.94
28	ZZZZZ	ZZZZZ	12/14/09	1513	2.30		5.94
29	ZZZZZ	ZZZZZ	12/14/09	1525	2.30		5.94
30	ZZZZZ	ZZZZZ	12/14/09	1538	2.30		5.94
31	ZZZZZ	ZZZZZ	12/14/09	1551	2.30		5.94
32	ZZZZZ	ZZZZZ	12/14/09	1603	2.30		5.94

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.: 10-1473

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 01/28/10 01/28/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.97			DCB: 5.28			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #	
01	PIBLK01	WAR100105-99	01/28/10	0916	1.97	5.28
02	ZZZZZ	ZZZZZ	01/28/10	0927		
03	AR125401	WAR091216-54	01/28/10	0937		
04	AR124201	WAR091217-42	01/28/10	0948		
05	AR124801	WAR091217-48	01/28/10	0958		
06	AR123201	WAR100104-32	01/28/10	1009		
07	AR122101	WAR100104-21	01/28/10	1019		
08	AR126201	WAR100104-62	01/28/10	1030		
09	ZZZZZ	ZZZZZ	01/28/10	1040		
10	AR166001	WAR100128-01	01/28/10	1051	1.97	5.28
11	AR166002	WAR100128-02	01/28/10	1101	1.97	5.28
12	AR166003	WAR100128-03	01/28/10	1112	1.97	5.28
13	AR166004	WAR100128-04	01/28/10	1122	1.97	5.28
14	AR166005	IAR100104-01	01/28/10	1134	1.97	5.28
15	AR166001	WAR100104-60	01/28/10	1144	1.97	5.28
16	ZZZZZ	ZZZZZ	01/28/10	1155		
17	DDTANALOGSTD	WAR091219-DD	01/28/10	1205		
18	AR126801	WAR100128-05	01/28/10	1218		
19	AR126802	WAR100128-06	01/28/10	1229		
20	AR126803	WAR100128-07	01/28/10	1239		
21	AR126804	WAR100128-08	01/28/10	1250		
22	AR126805	IAR100104-05	01/28/10	1300		
23	AR126801	WAR100107-68	01/28/10	1311		
24	PIBLK02	WAR100105-99	01/28/10	1321	1.97	5.28
25	ZZZZZ	ZZZZZ	01/28/10	1332	1.97	5.28
26	ZZZZZ	ZZZZZ	01/28/10	1342	1.97	5.28
27	ZZZZZ	ZZZZZ	01/28/10	1353	1.97	5.28
28	ZZZZZ	ZZZZZ	01/28/10	1405	1.97	5.28
29	ZZZZZ	ZZZZZ	01/28/10	1418	1.97	5.28
30	ZZZZZ	ZZZZZ	01/28/10	1430	1.97	5.28
31	ZZZZZ	ZZZZZ	01/28/10	1443	1.97	5.28
32	AR166002	WAR100104-60	01/28/10	1456	1.97	5.28

QC LIMITS

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 01/28/10 01/28/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.30			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #	
01	PIBLK01	WAR100105-99	01/28/10	0916	2.30	5.94
02	ZZZZZ	ZZZZZ	01/28/10	0927		
03	AR125401	WAR091216-54	01/28/10	0937		
04	AR124201	WAR091217-42	01/28/10	0948		
05	AR124801	WAR091217-48	01/28/10	0958		
06	AR123201	WAR100104-32	01/28/10	1009		
07	AR122101	WAR100104-21	01/28/10	1019		
08	AR126201	WAR100104-62	01/28/10	1030		
09	ZZZZZ	ZZZZZ	01/28/10	1040		
10	AR166001	WAR100128-01	01/28/10	1051	2.30	5.94
11	AR166002	WAR100128-02	01/28/10	1101	2.30	5.94
12	AR166003	WAR100128-03	01/28/10	1112	2.30	5.95
13	AR166004	WAR100128-04	01/28/10	1122	2.30	5.95
14	AR166005	IAR100104-01	01/28/10	1134	2.30	5.95
15	AR166001	WAR100104-60	01/28/10	1144	2.30	5.94
16	ZZZZZ	ZZZZZ	01/28/10	1155		
17	DDTANALOGSTD	WAR091219-DD	01/28/10	1205		
18	AR126801	WAR100128-05	01/28/10	1218		
19	AR126802	WAR100128-06	01/28/10	1229		
20	AR126803	WAR100128-07	01/28/10	1239		
21	AR126804	WAR100128-08	01/28/10	1250		
22	AR126805	IAR100104-05	01/28/10	1300		
23	AR126801	WAR100107-68	01/28/10	1311		
24	PIBLK02	WAR100105-99	01/28/10	1321	2.30	5.94
25	ZZZZZ	ZZZZZ	01/28/10	1332	2.30	5.94
26	ZZZZZ	ZZZZZ	01/28/10	1342	2.30	5.94
27	ZZZZZ	ZZZZZ	01/28/10	1353	2.30	5.94
28	ZZZZZ	ZZZZZ	01/28/10	1405	2.30	5.94
29	ZZZZZ	ZZZZZ	01/28/10	1418	2.30	5.94
30	ZZZZZ	ZZZZZ	01/28/10	1430	2.30	5.94
31	ZZZZZ	ZZZZZ	01/28/10	1443	2.30	5.94
32	AR166002	WAR100104-60	01/28/10	1456	2.30	5.94

QC LIMITS

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.



8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GEL LABORATORIES LLC      Contract: N/A  
 Lab Code: N/A      Case No.: N/A      SAS No.: N/A      SDG No.: 10-1473  
 GC Column: CLP1      ID: 0.25 (mm) Init. Calib. Date(s): 01/29/10 01/29/10  
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.97      DCB: 5.28							
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR100105-99	01/29/10	0612	1.96	5.28	
02	ZZZZZ	ZZZZZ	01/29/10	0622	1.97	5.28	
03	AR125401	WAR091216-54	01/29/10	0633			
04	AR124201	WAR091217-42	01/29/10	0643			
05	AR124801	WAR091217-48	01/29/10	0654			
06	AR123201	WAR100104-32	01/29/10	0704			
07	AR122101	WAR100104-21	01/29/10	0715			
08	AR126201	WAR100104-62	01/29/10	0725			
09	AR126801	WAR100107-68	01/29/10	0736			
10	AR166001	WAR100129-01	01/29/10	0746	1.96	5.28	
11	AR166002	WAR100129-02	01/29/10	0757	1.97	5.28	
12	AR166003	WAR100129-03	01/29/10	0807	1.97	5.28	
13	AR166004	WAR100129-04	01/29/10	0818	1.97	5.28	
14	AR166005	IAR100104-01	01/29/10	0859	1.97	5.29	
15	AR166001	WAR100104-60	01/29/10	0909	1.97	5.28	
16	DDTANALOGSTD	WAR091219-DD	01/29/10	0920			
17	PIBLK02	WAR100105-99	01/29/10	0930	1.97	5.28	
18	ZZZZZ	ZZZZZ	01/29/10	0941	1.97	5.28	
19	ZZZZZ	ZZZZZ	01/29/10	0951	1.97	5.28	
20	ZZZZZ	ZZZZZ	01/29/10	1002	1.97	5.28	
21	ZZZZZ	ZZZZZ	01/29/10	1014	1.97	5.28	
22	ZZZZZ	ZZZZZ	01/29/10	1027	1.96	5.28	
23	ZZZZZ	ZZZZZ	01/29/10	1040	1.97	5.28	
24	ZZZZZ	ZZZZZ	01/29/10	1052	1.97	5.28	
25	ZZZZZ	ZZZZZ	01/29/10	1105	1.97	5.28	
26	ZZZZZ	ZZZZZ	01/29/10	1117	1.96	5.28	
27	ZZZZZ	ZZZZZ	01/29/10	1130	1.96	5.28	
28	AR166002	WAR100104-60	01/29/10	1142	1.97	5.28	
29	PIBLK03	WAR100105-99	01/29/10	1153	1.97	5.28	
30	ZZZZZ	ZZZZZ	01/29/10	1203	1.97	5.28	
31	ZZZZZ	ZZZZZ	01/29/10	1216	1.97	5.28	
32	ZZZZZ	ZZZZZ	01/29/10	1228	1.97	5.28	

QC LIMITS

S1 = 4cmx      (+/- 0.03 MINUTES)  
 DCB = Decachlorobiphenyl      (+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
 \* Values outside of QC limits.

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GEL LABORATORIES LLC      Contract: N/A  
 Lab Code: N/A      Case No.: N/A      SAS No.: N/A      SDG No.: 10-1473  
 GC Column: CLP2      ID: 0.25 (mm) Init. Calib. Date(s): 01/29/10 01/29/10  
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.30			DCB: 5.95			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100105-99	01/29/10	0612	2.30	5.94
02	ZZZZZ	ZZZZZ	01/29/10	0622	2.30	5.94
03	AR125401	WAR091216-54	01/29/10	0633		
04	AR124201	WAR091217-42	01/29/10	0643		
05	AR124801	WAR091217-48	01/29/10	0654		
06	AR123201	WAR100104-32	01/29/10	0704		
07	AR122101	WAR100104-21	01/29/10	0715		
08	AR126201	WAR100104-62	01/29/10	0725		
09	AR126801	WAR100107-68	01/29/10	0736		
10	AR166001	WAR100129-01	01/29/10	0746	2.30	5.94
11	AR166002	WAR100129-02	01/29/10	0757	2.30	5.94
12	AR166003	WAR100129-03	01/29/10	0807	2.30	5.94
13	AR166004	WAR100129-04	01/29/10	0818	2.30	5.94
14	AR166005	IAR100104-01	01/29/10	0859	2.30	5.95
15	AR166001	WAR100104-60	01/29/10	0909	2.30	5.95
16	DDTANALOGSTD	WAR091219-DD	01/29/10	0920		
17	PIBLK02	WAR100105-99	01/29/10	0930	2.30	5.94
18	ZZZZZ	ZZZZZ	01/29/10	0941	2.30	5.94
19	ZZZZZ	ZZZZZ	01/29/10	0951	2.30	5.94
20	ZZZZZ	ZZZZZ	01/29/10	1002	2.30	5.94
21	ZZZZZ	ZZZZZ	01/29/10	1014	2.30	5.94
22	ZZZZZ	ZZZZZ	01/29/10	1027	2.30	5.94
23	ZZZZZ	ZZZZZ	01/29/10	1040	2.30	5.94
24	ZZZZZ	ZZZZZ	01/29/10	1052	2.30	5.94
25	ZZZZZ	ZZZZZ	01/29/10	1105	2.30	5.94
26	ZZZZZ	ZZZZZ	01/29/10	1117	2.30	5.94
27	ZZZZZ	ZZZZZ	01/29/10	1130	2.30	5.94
28	AR166002	WAR100104-60	01/29/10	1142	2.30	5.94
29	PIBLK03	WAR100105-99	01/29/10	1153	2.30	5.94
30	ZZZZZ	ZZZZZ	01/29/10	1203	2.30	5.94
31	ZZZZZ	ZZZZZ	01/29/10	1216	2.30	5.94
32	ZZZZZ	ZZZZZ	01/29/10	1228	2.30	5.94

QC LIMITS  
 S1 = 4cmx      (+/- 0.03 MINUTES)  
 DCB = Decachlorobiphenyl      (+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
 \* Values outside of QC limits.

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1473

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 01/29/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.97			DCB: 5.27		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/05/10	0656	
02	AR166001	WAR100203-60	02/05/10	0706	
03	AR125401	WAR091216-54	02/05/10	0717	
04	AR124201	WAR091217-42	02/05/10	0727	
05	AR124801	WAR091217-48	02/05/10	0738	
06	AR123201	WAR100104-32	02/05/10	0748	
07	AR122101	WAR100104-21	02/05/10	0759	
08	AR166002	WAR100104-62	02/05/10	0809	
09	AR126801	WAR100107-68	02/05/10	0820	
10	DDTANALOGSTD	WAR091219-DD	02/05/10	0831	
11	PIBLK02	WAR100105-99	02/05/10	0841	
12	PBLK01	1202033246	02/05/10	0852	
13	PBLK01LCS	1202033247	02/05/10	0902	
14	ZZZZZ	ZZZZZ	02/05/10	0913	
15	ZZZZZ	ZZZZZ	02/05/10	0923	
16	ZZZZZ	ZZZZZ	02/05/10	0936	
17	ZZZZZ	ZZZZZ	02/05/10	0948	
18	ZZZZZ	ZZZZZ	02/05/10	1001	
19	ZZZZZ	ZZZZZ	02/05/10	1013	
20	ZZZZZ	ZZZZZ	02/05/10	1026	
21	ZZZZZ	ZZZZZ	02/05/10	1039	
22	AR166002	WAR100203-60	02/05/10	1051	
23	PIBLK03	WAR100105-99	02/05/10	1102	
24	ZZZZZ	ZZZZZ	02/05/10	1112	
25	RE15-10-8060	245803006	02/05/10	1125	
26	RE15-10-8058	245803007	02/05/10	1137	
27	RE15-10-8059	245803008	02/05/10	1150	
28	ZZZZZ	ZZZZZ	02/05/10	1203	
29	ZZZZZ	ZZZZZ	02/05/10	1215	
30	ZZZZZ	ZZZZZ	02/05/10	1228	
31	AR166003	WAR100203-60	02/05/10	1240	
32	PIBLK04	WAR100105-99	02/05/10	1251	

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.: 10-1473

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 01/29/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.30				DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR100105-99	02/05/10	0656			
02	AR166001	WAR100203-60	02/05/10	0706			
03	AR125401	WAR091216-54	02/05/10	0717			
04	AR124201	WAR091217-42	02/05/10	0727			
05	AR124801	WAR091217-48	02/05/10	0738			
06	AR123201	WAR100104-32	02/05/10	0748			
07	AR123201	WAR100104-21	02/05/10	0759			
08	AR126201	WAR100104-62	02/05/10	0809			
09	AR126801	WAR100107-68	02/05/10	0820			
10	DDTANALOGSTD	WAR091219-DD	02/05/10	0831			
11	PIBLK02	WAR100105-99	02/05/10	0841	2.30	5.94	
12	PBLK01	1202033246	02/05/10	0852	2.30	5.94	
13	PBLK01LCS	1202033247	02/05/10	0902	2.29	5.94	
14	ZZZZZ	ZZZZZ	02/05/10	0913	2.30	5.94	
15	ZZZZZ	ZZZZZ	02/05/10	0923	2.30	5.94	
16	ZZZZZ	ZZZZZ	02/05/10	0936	2.30	5.94	
17	ZZZZZ	ZZZZZ	02/05/10	0948	2.30	5.94	
18	ZZZZZ	ZZZZZ	02/05/10	1001	2.30	5.94	
19	ZZZZZ	ZZZZZ	02/05/10	1013	2.30	5.94	
20	ZZZZZ	ZZZZZ	02/05/10	1026	2.30	5.94	
21	ZZZZZ	ZZZZZ	02/05/10	1039	2.30	5.94	
22	AR166002	WAR100203-60	02/05/10	1051	2.30	5.94	
23	PIBLK03	WAR100105-99	02/05/10	1102	2.30	5.94	
24	ZZZZZ	ZZZZZ	02/05/10	1112	2.30	5.94	
25	RE15-10-8060	245803006	02/05/10	1125	2.30	5.94	
26	RE15-10-8058	245803007	02/05/10	1137	2.30	5.94	
27	RE15-10-8059	245803008	02/05/10	1150	2.30	5.94	
28	ZZZZZ	ZZZZZ	02/05/10	1203	2.30	5.94	
29	ZZZZZ	ZZZZZ	02/05/10	1215	2.30	5.94	
30	ZZZZZ	ZZZZZ	02/05/10	1228	2.30	5.94	
31	AR166003	WAR100203-60	02/05/10	1240	2.30	5.94	
32	PIBLK04	WAR100105-99	02/05/10	1251	2.30	5.94	

QC LIMITS  
S1 = 4cmx (+/- 0.03 MINUTES)  
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

## Identification Summary

Page 1 of 1

SDG Number: 10-1473

Client ID: LCS for batch 949031

Lab Sample ID: 1202033247

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD1A.I\_1

Inst: ECD1A.I\_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 09:02

Analyzed: 05-FEB-10 09:02

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.689
Column 1	1	2.42	2.39 - 2.45	20.2		ug/kg	
	2	2.71	2.68 - 2.74	20.8		ug/kg	
	3	2.79	2.76 - 2.82	20		ug/kg	
	4	2.83	2.8 - 2.86	20.2		ug/kg	
	5	3.04	3.01 - 3.07	20		ug/kg	
					20.2		
Column 2	1	3.19	3.16 - 3.22	20.9		ug/kg	
	2	3.27	3.24 - 3.3	20.3		ug/kg	
	3	3.34	3.31 - 3.37	19.5		ug/kg	
	4	3.57	3.53 - 3.59	19.8		ug/kg	
	5	3.64	3.61 - 3.67	20		ug/kg	
					20.1		
Aroclor-1260							.412
Column 1	1	3.76	3.73 - 3.79	23.2		ug/kg	
	2	3.93	3.89 - 3.95	23.4		ug/kg	
	3	4.16	4.12 - 4.18	23.7		ug/kg	
	4	4.3	4.27 - 4.33	23.9		ug/kg	
	5	4.48	4.45 - 4.51	24.4		ug/kg	
					23.7		
Column 2	1	4.33	4.3 - 4.36	22.9		ug/kg	
	2	4.46	4.43 - 4.49	23.5		ug/kg	
	3	4.72	4.69 - 4.75	23.7		ug/kg	
	4	4.9	4.87 - 4.93	23.4		ug/kg	
	5	5.04	5.01 - 5.07	24.6		ug/kg	
					23.6		

## Identification Summary

Page 1 of 2

SDG Number: 10-1473

Client ID: RE15-10-8058

Lab Sample ID: 245803007

Data File: 026f2601.d

Data File: 026b2601.d

Inst: ECD1AJ\_1

Inst: ECD1AJ\_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 11:37

Analyzed: 05-FEB-10 11:37

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							55.4
Column 1	1	3.26	3.24 – 3.3	3.12	4.7	ug/kg	
	2	3.42	3.39 – 3.45	3		ug/kg	
	3	3.65	3.62 – 3.68	3.65		ug/kg	
	4	3.82	3.79 – 3.85	6.18		ug/kg	
	5	3.92	3.9 – 3.96	7.58		ug/kg	
Column 2	1	3.4	3.37 – 3.43	1.65	2.66	ug/kg	
	2	3.82	3.79 – 3.85	2.35		ug/kg	
	3	3.94	3.91 – 3.97	3.95		ug/kg	
	4	4.22	4.19 – 4.25	1.73		ug/kg	
	5	4.35	4.32 – 4.38	3.63		ug/kg	
Aroclor-1260							12.4
Column 1	1	3.76	3.73 – 3.79	3.74	12.9	ug/kg	
	2	3.92	3.89 – 3.95	4.31		ug/kg	
	3	4.15	4.12 – 4.18	24.5		ug/kg	
	4	4.29	4.27 – 4.33	21.1		ug/kg	
	5	4.47	4.45 – 4.51	11		ug/kg	
Column 2	1	4.33	4.3 – 4.36	7.36	14.6	ug/kg	
	2	4.46	4.43 – 4.49	4.41		ug/kg	
	3	4.72	4.69 – 4.75	27.7		ug/kg	
	4	4.9	4.87 – 4.93	20.1		ug/kg	
	5	5.04	5.01 – 5.07	13.6		ug/kg	

## Identification Summary

Page 2 of 2

SDG Number: 10-1473

Client ID: RE15-10-8058

Lab Sample ID: 245803007

Data File: 026f2601.d

Data File: 026b2601.d

Inst: ECD1A.I\_1

Inst: ECD1A.I\_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 11:37

Analyzed: 05-FEB-10 11:37

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1268							.272
Column 1	1	4.66	4.63 - 4.69	39.5		ug/kg	
	2	4.68	4.66 - 4.72	68.4		ug/kg	
	3	4.8	4.77 - 4.83	27.2		ug/kg	
	4	5	4.97 - 5.03	77.5		ug/kg	
	5	5.16	5.14 - 5.2	64.7		ug/kg	
					55.4		
Column 2	1	5.25	5.23 - 5.29	39.3		ug/kg	
	2	5.28	5.25 - 5.31	66.1		ug/kg	
	3	5.43	5.4 - 5.46	27		ug/kg	
	4	5.6	5.57 - 5.63	77.4		ug/kg	
	5	5.79	5.76 - 5.82	68.1		ug/kg	
					55.6		

## Identification Summary

Page 1 of 2

SDG Number: 10-1473

Client ID: RE15-10-8060

Lab Sample ID: 245803006

Data File: 025f2501.d

Data File: 025b2501.d

Inst: ECD1A.I\_1

Inst: ECD1A.I\_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 11:25

Analyzed: 05-FEB-10 11:25

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							52.4
Column 1	1	3.26	3.24 – 3.3	62.9		ug/kg	
	2	3.42	3.39 – 3.45	78.2		ug/kg	
	3	3.65	3.62 – 3.68	73.8		ug/kg	
	4	3.82	3.79 – 3.85	48.5		ug/kg	
	5	3.92	3.9 – 3.96	107		ug/kg	
					74		
Column 2	1	3.4	3.37 – 3.43	33		ug/kg	
	2	3.82	3.79 – 3.85	53.3		ug/kg	
	3	3.94	3.91 – 3.97	70.3		ug/kg	
	4	4.22	4.19 – 4.25	21.1		ug/kg	
	5	4.35	4.32 – 4.38	38.8		ug/kg	
					43.3		
Aroclor-1260							4.74
Column 1	1	3.76	3.73 – 3.79	56		ug/kg	
	2	3.92	3.89 – 3.95	60.7		ug/kg	
	3	4.15	4.12 – 4.18	38.7		ug/kg	
	4	4.29	4.27 – 4.33	45.2		ug/kg	
	5	4.48	4.45 – 4.51	23.5		ug/kg	
					44.8		
Column 2	1	4.33	4.3 – 4.36	59.6		ug/kg	
	2	4.45	4.43 – 4.49	54.5		ug/kg	
	3	4.72	4.69 – 4.75	48.1		ug/kg	
	4	4.9	4.87 – 4.93	46.1		ug/kg	
	5	5.04	5.01 – 5.07	26.6		ug/kg	
					47		



## Identification Summary

Page 2 of 2

SDG Number: 10-1473

Client ID: RE15-10-8060

Lab Sample ID: 245803006

Data File: 025f2501.d

Data File: 025b2501.d

Inst: ECD1A.I\_1

Inst: ECD1A.I\_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 11:25

Analyzed: 05-FEB-10 11:25

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1268							4.06
Column 1	1	4.66	4.63 - 4.69	29.1		ug/kg	
	2	4.68	4.66 - 4.72	30.2		ug/kg	
	3	4.8	4.77 - 4.83	26.4		ug/kg	
	4	5	4.97 - 5.03	43		ug/kg	
	5	5.16	5.14 - 5.2	39.7		ug/kg	
					33.7		
Column 2	1	5.25	5.23 - 5.29	39.1		ug/kg	
	2	5.28	5.25 - 5.31	29.7		ug/kg	
	3	5.43	5.4 - 5.46	29.8		ug/kg	
	4	5.6	5.57 - 5.63	33.4		ug/kg	
	5	5.79	5.76 - 5.82	43.5		ug/kg	
					35.1		

# QUALITY CONTROL DATA

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

Page 1 of 1

SDG Number: 10-1473

Matrix: SOIL

Lab Sample ID: 1202033246

Client Sample: QC for batch 949031

Client: LANL010

Project: QC

Client ID: MB for batch 949031

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 949033

Inst: ECD1A.I

Dilution: 1

Run Date: 02/05/2010 08:52

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/04/2010 20:32

Aliquot: 30 g

Final Volume: 1 mL

Data File: 012f1201-1.d

Column: 1 CLP1

Level: LOW

012b1201-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1
11100-14-4	Aroclor-1268	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecdl1a.i/020510.b/012f1201-2.d  
Report Date: 05-Feb-2010 10:08

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/012f1201-2.d

Lab Smp Id: 1202033246

Client Smp ID: PBLK01

Inj Date : 05-FEB-2010 08:52

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202033246|1|

Misc Info : |ECD82P\_1S|949033|SVA|QC A|SOIL|MB|

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 12

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1473.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

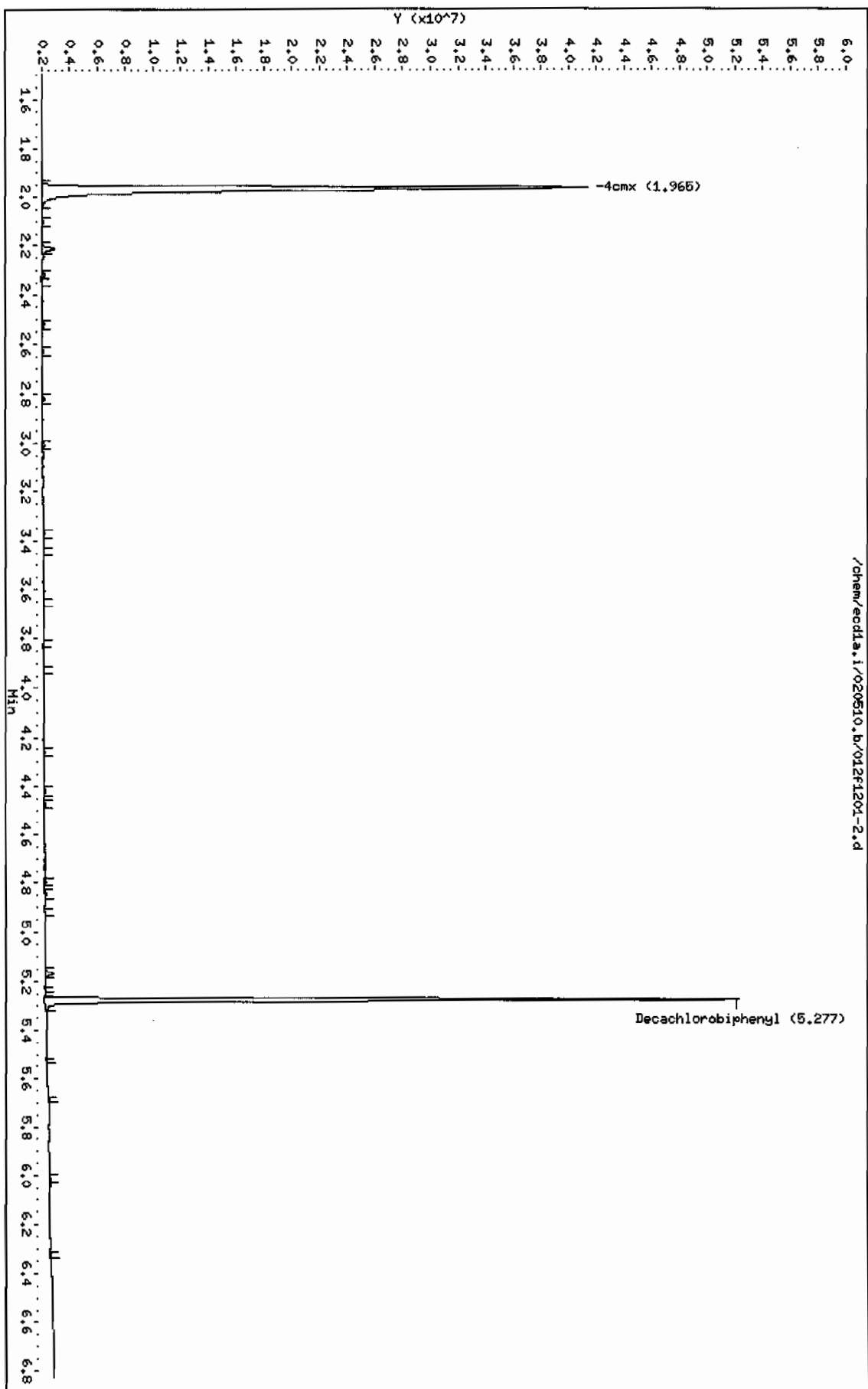
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
11	4cmx						
1.965	1.965	0.000	48584892	121.874	4.1	80.00- 120.00	100.00
12	Decachlorobiphenyl						
5.277	5.275	0.002	36515828	112.942	3.8	80.00- 120.00	100.00

Data File: /chem/eod1a.i/020510.b/012f1201-2.d  
Date : 05-FEB-2010 08:52  
Client ID: PBLK01  
Sample Info: 1120203324611  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: eod1a.i  
Operator: YSI  
Column diameter: 0.25

/chem/eod1a.i/020510.b/012f1201-2.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/020510.b/012b1201-2.d  
 Lab Smp Id: 1202033246 Client Smp ID: PBLK01  
 Inj Date : 05-FEB-2010 08:52  
 Operator : YS1 Inst ID: ecd1a.i  
 Smp Info : |1202033246|1|  
 Misc Info : |ECD82P\_1S|949033|SVA|QC A|SOIL|MB|||  
 Comment :  
 Method : /chem/ecd1a.i/020510.b/ECD1-B-8082-121409.m  
 Meth Date : 05-Feb-2010 09:40 yip00818 Quant Type: ESTD  
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d  
 Als bottle: 12 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1473.sub  
 Target Version: 3.50 Sample Matrix: Soil  
 Processing Host: hpc1p1

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

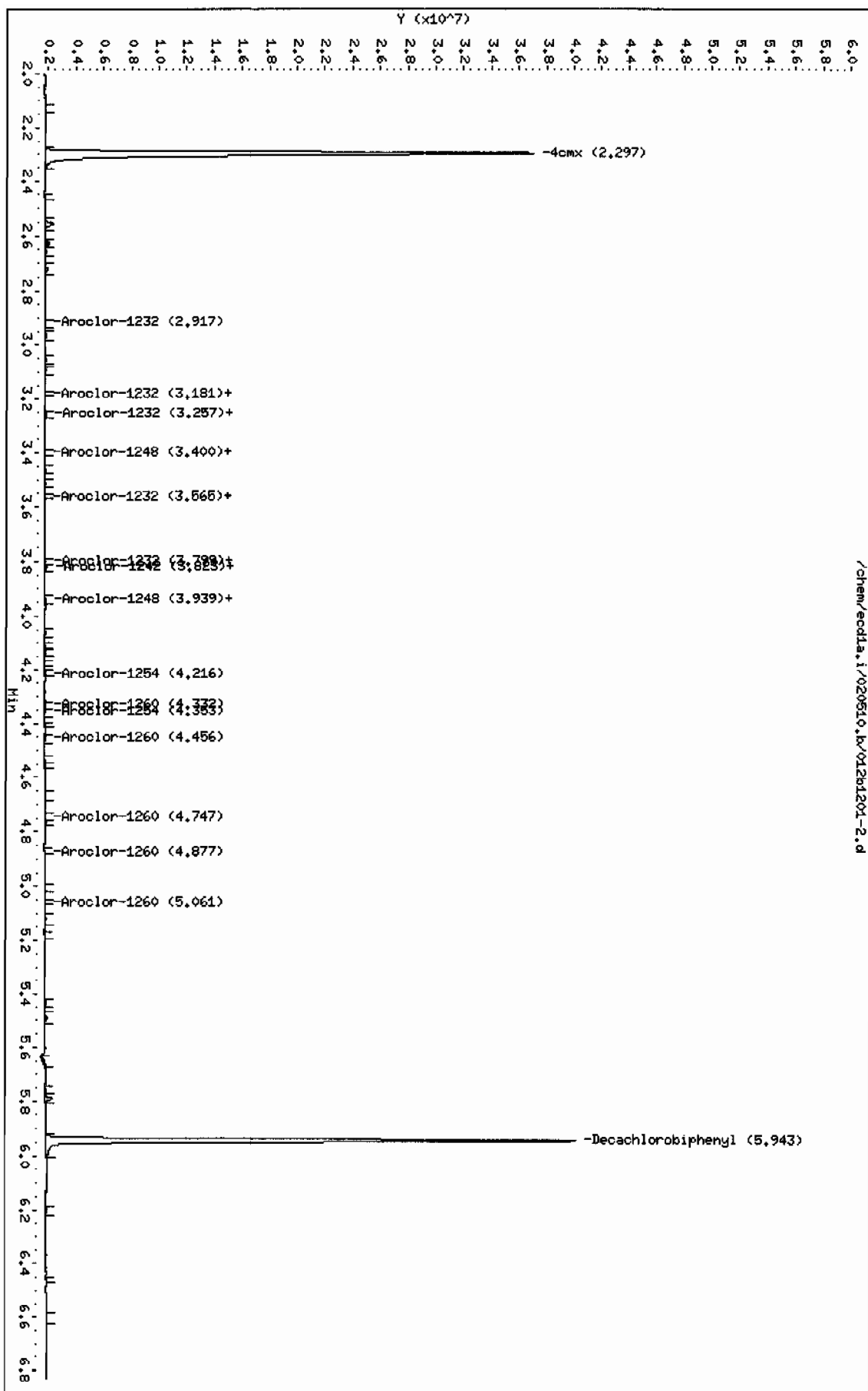
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx						
2.297	2.296	0.001	34903615	121.512	4.0 80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl						
5.943	5.942	0.001	29195934	134.155	4.5 80.00- 120.00	100.00

Data File: /chem/eodla.i/020510.b/012b1201-2.d  
 Date : 05-FEB-2010 08:52  
 Client ID: PBLK01  
 Sample Info: 1120203324611  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: eodla.i  
 Operator: YSA  
 Column diameter: 0.25



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

Page 1 of 1

SDG Number: 10-1473

Lab Sample ID: 1202033247

Client Sample: QC for batch 949031

Client ID: LCS for batch 949031

Batch ID: 949033

Run Date: 02/05/2010 09:02

Prep Date: 02/04/2010 20:32

Data File: 013f1301-1.d

013b1301-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

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		20.2	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		23.7	ug/kg	1.11	3.33	1
11100-14-4	Aroclor-1268	U	3.33	ug/kg	1.11	3.33	1



Data File: /chem/ecd1a.i/020510.b/013f1301-2.d  
Report Date: 05-Feb-2010 10:09

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/020510.b/013f1301-2.d

Lab Smp Id: 1202033247

Client Smp ID: PBLK01LCS

Inj Date : 05-FEB-2010 09:02

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202033247|1|

Misc Info : |ECD82P\_1S|949033|SVA|QC A|SOIL|LCS|||

Comment :

Method : /chem/ecd1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 13

QC Sample: LCS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1473.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

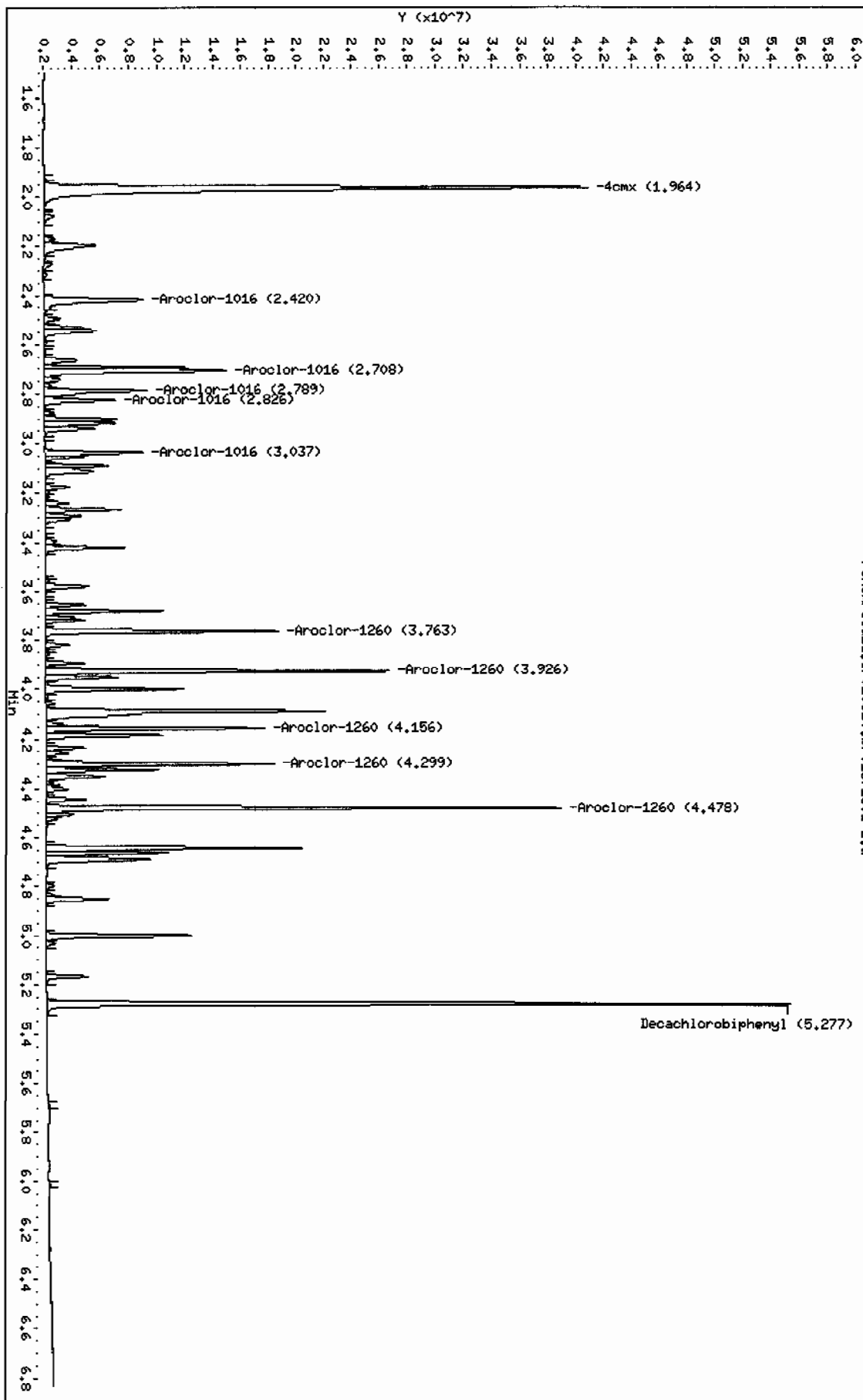
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL (ug/Kg)	TARGET RANGE	RATIO
CAS #: 877-09-8							
1.964	1.965	-0.001	50013903	125.458	4.2	80.00- 120.00	100.00
CAS #: 2051-24-3							
5.277	5.275	0.002	39702847	122.799	4.1	80.00- 120.00	100.00
CAS #: 12674-11-2							
2.420	2.419	0.001	8867856	604.950	20.2	80.00- 120.00	100.00
2.708	2.707	0.001	11431437	623.897	20.8	111.50- 151.50	128.91
2.789	2.788	0.001	7213810	599.968	20.0	62.41- 102.41	81.35
2.826	2.826	0.000	4356989	606.812	20.2	29.39- 69.39	49.13

CONCENTRATIONS									
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO		
			RESPONSE	( ug/L)				(ug/Kg)	
=====	=====	=====	=====	=====	=====	=====	=====		
1 Aroclor-1016 (continued)									
3.037	3.036	0.001	5584390	601.132	20.0	44.74-	84.74	62.97	
Average of Peak Concentrations =					20.2				
-----									
7 Aroclor-1260					CAS #: 11096-82-5				
3.763	3.762	0.001	12251339	694.656	23.2	80.00-	120.00	100.00	
3.926	3.925	0.001	18755441	703.451	23.4	132.75-	172.75	153.09	
4.156	4.155	0.001	11339517	712.208	23.7	70.75-	110.75	92.56	
4.299	4.297	0.002	11864393	716.853	23.9	75.46-	115.46	96.84	
4.478	4.477	0.001	27215780	732.880	24.4	198.55-	238.55	222.15	
Average of Peak Concentrations =					23.7				
-----									

Data File: /chem/ecdl1.i/020510.b/013f1301-2.d  
Date: 05-FEB-2010 09:02  
Client ID: PRLK01LCS  
Sample Info: 1120203324711  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecdl1.i  
Operator: VSI  
Column diameter: 0.25

/chem/ecdl1.i/020510.b/013f1301-2.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/013b1301-2.d  
 Lab Smp Id: 1202033247 Client Smp ID: PBLK01LCS  
 Inj Date : 05-FEB-2010 09:02  
 Operator : YS1 Inst ID: ecd1a.i  
 Smp Info : |1202033247|1|  
 Misc Info : |ECD82P\_1S|949033|SVA|QC A|SOIL|LCS|1|  
 Comment :  
 Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m  
 Meth Date : 05-Feb-2010 09:40 yip00818 Quant Type: ESTD  
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d  
 Als bottle: 13 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1473.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			
2.295	2.296	-0.001	35785063	124.581	4.2	80.00- 120.00	100.00	
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.943	5.942	0.001	29148749	133.938	4.5	80.00- 120.00	100.00	
-----								
1 Aroclor-1016					CAS #: 12674-11-2			
3.192	3.192	0.000	7837768	627.787	20.9	80.00- 120.00	100.00 (M)	
3.275	3.275	0.000	5207354	609.274	20.3	46.71- 86.71	66.44	
3.340	3.339	0.001	3101086	586.135	19.5	21.11- 61.11	39.57	
3.566	3.565	0.001	4040701	593.042	19.8	32.44- 72.44	51.55	

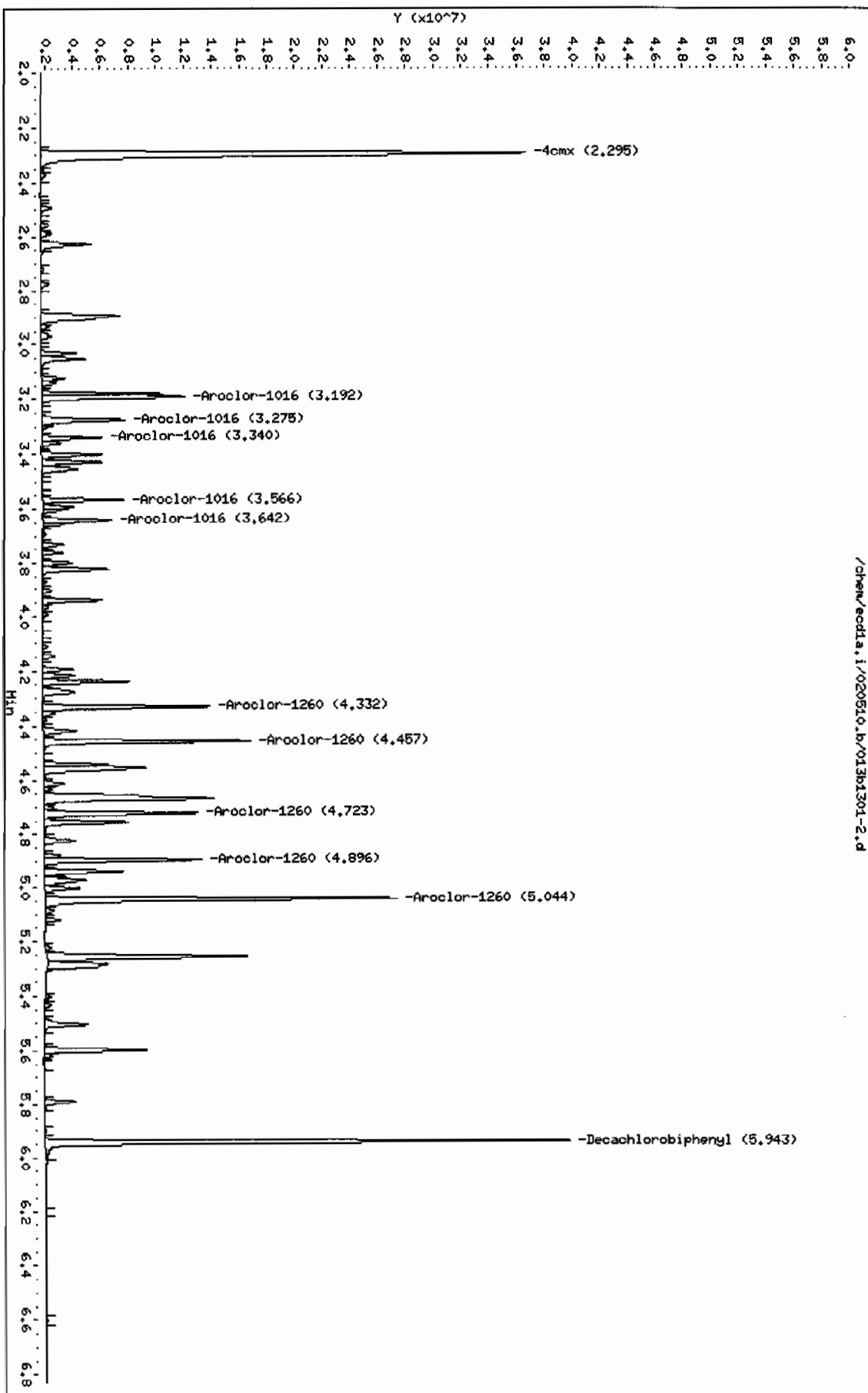
CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====		=====	
1 Aroclor-1016 (continued)									
3.642	3.641	0.001	3840836	599.683	20.0	29.96-	69.96	49.00	
Average of Peak Concentrations =					20.1				
-----									
7 Aroclor-1260					CAS #: 11096-82-5				
4.332	4.332	0.000	8683387	686.743	22.9	80.00-	120.00	100.00	
4.457	4.457	0.000	10720030	704.334	23.5	101.36-	141.36	123.45	
4.723	4.722	0.001	8290264	711.578	23.7	72.42-	112.42	95.47	
4.896	4.896	0.000	8478479	703.403	23.4	75.24-	115.24	97.64	
5.044	5.043	0.001	19273891	739.359	24.6	194.19-	234.19	221.96	
Average of Peak Concentrations =					23.6				

#### QC Flag Legend

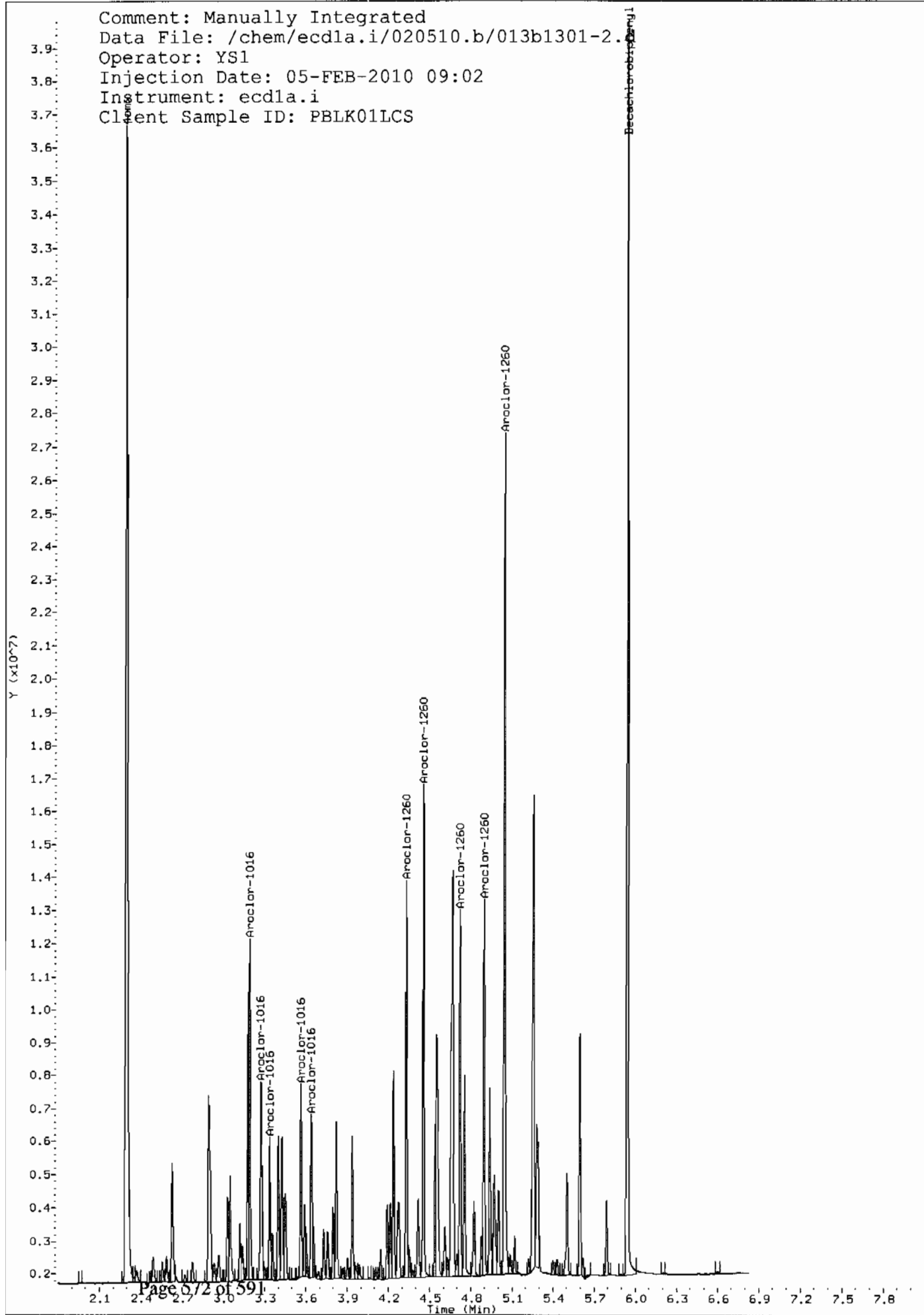
M - Compound response manually integrated.

Data File: /chem/ecdt.a.i/020510.b/013b1301-2.d  
Date : 05-FEB-2010 09:02  
Client ID: PBLK01LCS  
Sample Info: 1120203324711  
Volume Injected (uL): 1.0  
Column phaset: CLP2

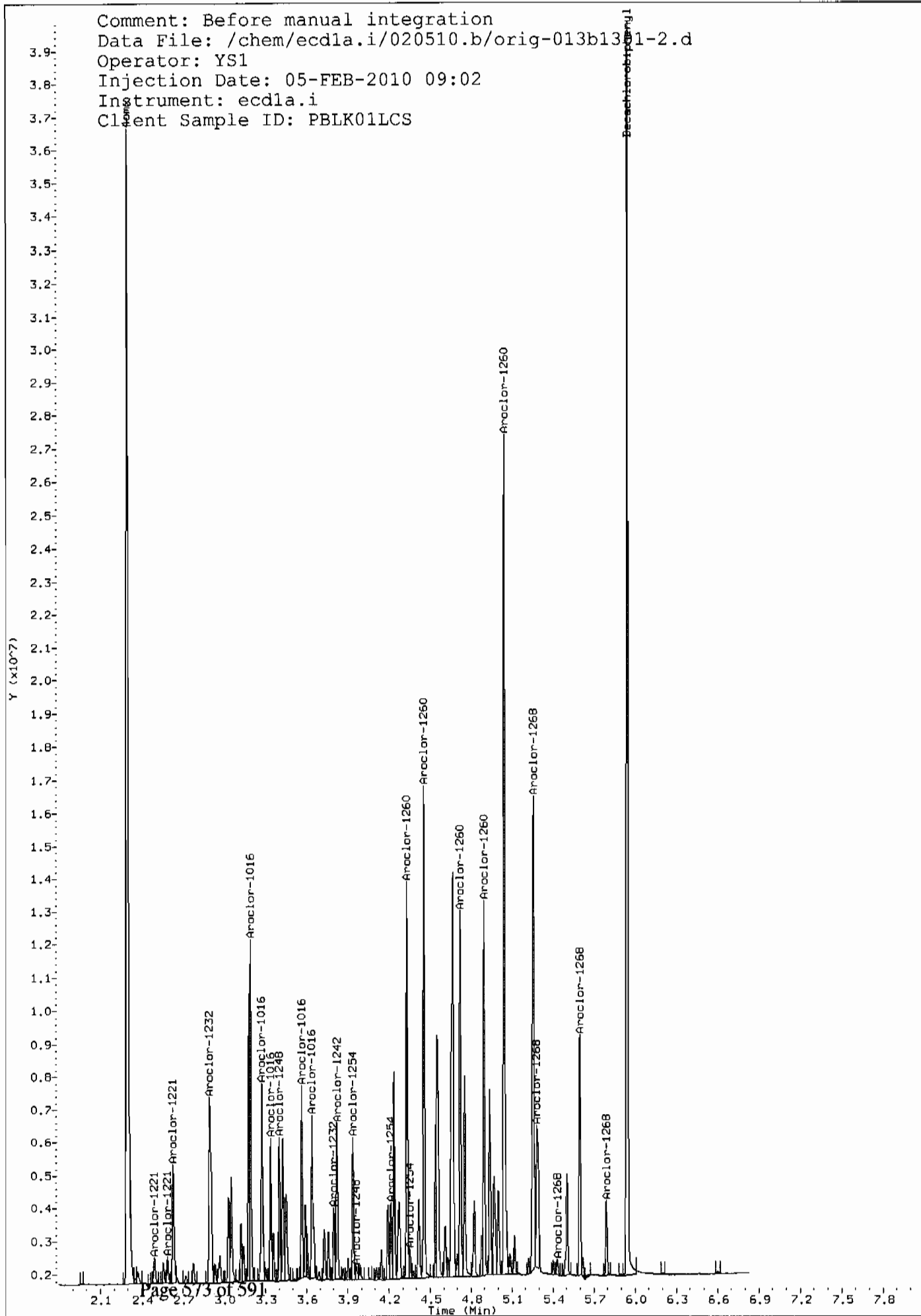
Instrument: ecdt.a.i  
Operator: VSI  
Column diameter: 0.25



Comment: Manually Integrated  
Data File: /chem/ecdl1a.i/020510.b/013b1301-2.  
Operator: YS1  
Injection Date: 05-FEB-2010 09:02  
Instrument: ecdl1a.i  
Client Sample ID: PBLK01LCS



Comment: Before manual integration  
Data File: /chem/ecdl1a.i/020510.b/orig-013b1301-2.d  
Operator: YS1  
Injection Date: 05-FEB-2010 09:02  
Instrument: ecd1a.i  
Client Sample ID: PBLK01LCS





# MISCELLANEOUS DATA

## GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 12/15/2009

METHOD: ECD1-F-8082-121409.m

OPERATOR:YS1

REVIEWED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

HARDWARE CONFIGURATION &amp; METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA385  
ALUMINA LOT 1230997-A  
COPPER LOT 236547-A

## Calibration &amp; QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,

DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,

BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/121409.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1WAR091130-99 01	YS1	14-DEC-2009 04:44	1	121409	1.01	CLEAN	
1002f0201.d	1WAR091211-60 01	YS1	14-DEC-2009 04:54	1	121409	1.01	DUSE RE-ICAL	
1003f0301.d	1WAR091102-54	YS1	14-DEC-2009 05:05	1	121409	1.01	DUSE RE-ICAL	
1004f0401.d	1WAR091102-42	YS1	14-DEC-2009 05:15	1	121409	1.01	DUSE RE-ICAL	
1005f0501.d	1WAR091027-48	YS1	14-DEC-2009 05:26	1	121409	1.01	DUSE RE-ICAL	
1006f0601.d	1WAR090930-32	YS1	14-DEC-2009 05:36	1	121409	1.01	PATTERN ONLY	
1007f0701.d	1WAR090803-21	YS1	14-DEC-2009 05:47	1	121409	1.01	PATTERN ONLY	
1008f0801.d	1WAR090803-62	YS1	14-DEC-2009 05:58	1	121409	1.01	PATTERN ONLY	
1009f0901.d	1WAR091106-68	YS1	14-DEC-2009 06:08	1	121409	1.01	DUSE RE-ICAL	
1010f1001.d	11660-1	YS1	14-DEC-2009 06:19	1	121409	1.01	DUSE	
1011f1101.d	11660-2	YS1	14-DEC-2009 06:29	1	121409	1.01	DUSE	
1012f1201.d	11660-3	YS1	14-DEC-2009 06:40	1	121409	1.01	DUSE	
1013f1301.d	11660-4	YS1	14-DEC-2009 06:50	1	121409	1.01	DUSE	
1014f1401.d	1IAR091102-01	YS1	14-DEC-2009 07:01	1	121409	1.01	DUSE	
1015f1501.d	1WAR091211-60 01	YS1	14-DEC-2009 07:11	1	121409	1.01	DUSE	

Instrument Batch: /chem/ecd1a.i/121409.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR091214-05 54	YS1	14-DEC-2009 07:22	121409	1.01	AR1254 I-CAL LEVEL 1
017f1701.d	WAR091214-06 54	YS1	14-DEC-2009 07:32	121409	1.01	AR1254 I-CAL LEVEL 2
018f1801.d	WAR091214-07 54	YS1	14-DEC-2009 07:43	121409	1.01	AR1254 I-CAL LEVEL 3
019f1901.d	WAR091214-08 54	YS1	14-DEC-2009 07:53	121409	1.01	AR1254 I-CAL LEVEL 4
020f2001.d	IAR091027-01	YS1	14-DEC-2009 08:04	121409	1.01	AR1254 I-CAL LEVEL 5
021f2101.d	WAR091102-54	YS1	14-DEC-2009 08:14	121409	1.01	PASSED ON BOTH COLUMNS
022f2201.d	WAR091214-09 42	YS1	14-DEC-2009 08:25	121409	1.01	AR1242 I-CAL LEVEL 1
023f2301.d	WAR091214-10 42	YS1	14-DEC-2009 08:35	121409	1.01	AR1242 I-CAL LEVEL 2
024f2401.d	WAR091214-11 42	YS1	14-DEC-2009 08:46	121409	1.01	AR1242 I-CAL LEVEL 3
025f2501.d	WAR091214-12 42	YS1	14-DEC-2009 08:56	121409	1.01	AR1242 I-CAL LEVEL 4
026f2601.d	IAR091111-01	YS1	14-DEC-2009 09:07	121409	1.01	AR1242 I-CAL LEVEL 5
027f2701.d	WAR091102-42	YS1	14-DEC-2009 09:17	121409	1.01	PASSED ON BOTH COLUMNS
028f2801.d	WAR091214-13 48	YS1	14-DEC-2009 09:28	121409	1.01	AR1248 I-CAL LEVEL 1
029f2901.d	WAR091214-14 48	YS1	14-DEC-2009 09:38	121409	1.01	AR1248 I-CAL LEVEL 2
030f3001.d	WAR091214-15 48	YS1	14-DEC-2009 09:49	121409	1.01	AR1248 I-CAL LEVEL 3
031f3101.d	WAR091214-16 48	YS1	14-DEC-2009 09:59	121409	1.01	AR1248 I-CAL LEVEL 4
032f3201.d	IAR091027-02	YS1	14-DEC-2009 10:10	121409	1.01	AR1248 I-CAL LEVEL 5
033f3301.d	WAR091027-48	YS1	14-DEC-2009 10:20	121409	1.01	PASSED ON BOTH COLUMNS
034f3401.d	WAR091214-01 60	YS1	14-DEC-2009 10:31	121409	1.01	AR1660 I-CAL LEVEL 1
035f3501.d	WAR091214-02 60	YS1	14-DEC-2009 10:41	121409	1.01	AR1660 I-CAL LEVEL 2

Page: 2

Instrument Batch: /chem/ecd1a.i/121409.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	WAR091214-03 60	YS1	14-DEC-2009 10:52		121409	1.01	AR1660	I-CAL LEVEL 3
037f3701.d	WAR091214-04 60	YS1	14-DEC-2009 11:02		121409	1.01	AR1660	I-CAL LEVEL 4
038f3801.d	IAR091102-01	YS1	14-DEC-2009 11:13		121409	1.01	AR1660	I-CAL LEVEL 5
039f3901.d	WAR091211-60 01	YS1	14-DEC-2009 11:23		121409	1.01		PASSED ON BOTH COLUMNS
040f4001.d	WAR091214-17 68	YS1	14-DEC-2009 11:34		121409	1.01	AR1268	I-CAL LEVEL 1

041f4101.d	WAR091214-18 68	YS1	14-DEC-2009 11:44		121409		1.0		ARI268 I-CAL LEVEL 2
042f4201.d	WAR091214-19 68	YS1	14-DEC-2009 11:55		121409		1.0		ARI268 I-CAL LEVEL 3
043f4301.d	WAR091214-20 68	YS1	14-DEC-2009 12:06		121409		1.0		ARI268 I-CAL LEVEL 4
044f4401.d	IAR090817-02	YS1	14-DEC-2009 12:16		121409		1.0		ARI268 I-CAL LEVEL 5
045f4501.d	WAR091106-68	YS1	14-DEC-2009 12:27		121409		1.0		PASSED ON BOTH COLUMNS
046f4601.d	WAR091020-DDT	YS1	14-DEC-2009 12:37		121409		1.0		DDT ANALOG STANDARD
047f4701.d	WAR091130-99 02	YS1	14-DEC-2009 12:48		121409		1.0		CLEAN
048f4801.d	1201991693	YS1	14-DEC-2009 12:58	931140	10-782		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	1201991694	YS1	14-DEC-2009 13:09	931140	10-782		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
050f5001.d	242297001	YS1	14-DEC-2009 13:19	931140	10-782		1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
051f5101.d	242297002	YS1	14-DEC-2009 13:30	931140	10-782		10.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
052f5201.d	242297003	YS1	14-DEC-2009 13:40	931140	10-782		1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
053f5301.d	242297004	YS1	14-DEC-2009 13:51	931140	10-782		5.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
054f5401.d	242297005	YS1	14-DEC-2009 14:03	931140	10-782		5.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
055f5501.d	242297006	YS1	14-DEC-2009 14:16	931140	10-782		10.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/121409.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
056f5601.d	242297007	YS1	14-DEC-2009 14:29	931140	10-782		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
057f5701.d	242297008	YS1	14-DEC-2009 14:41	931140	10-782		25.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
058f5801.d	WAR091211-60 02	YS1	14-DEC-2009 14:52		121409		1.0	PASSED ON BOTH COLUMNS
059f5901.d	WAR091130-99 03	YS1	14-DEC-2009 15:02		121409		1.0	CLEAN
060f6001.d	242297009	YS1	14-DEC-2009 15:13	931140	10-782		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
061f6101.d	242297010	YS1	14-DEC-2009 15:25	931140	10-782		1.0 LANL	DCB LOW RE
062f6201.d	242297011	YS1	14-DEC-2009 15:38	931140	10-782		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
063f6301.d	242297012	YS1	14-DEC-2009 15:51	931140	10-782		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	242297013	YS1	14-DEC-2009 16:03	931140	10-782		10.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

1065f6501.d	1242305004	YS1	14-DEC-2009 16:16	931140	10-786	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1066f6601.d	11201991695	YS1	14-DEC-2009 16:28	931140	10-786	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1067f6701.d	11201991696	YS1	14-DEC-2009 16:41	931140	10-786	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1068f6801.d	1242305005	YS1	14-DEC-2009 16:53	931140	10-786	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1069f6901.d	1242305006	YS1	14-DEC-2009 17:06	931140	10-786	5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1070f7001.d	1WAR091211-60 03	YS1	14-DEC-2009 17:19	1121409	1.0	PASSED ON BOTH COLUMNS	
1071f7101.d	1WAR091130-99 04	YS1	14-DEC-2009 17:31	1121409	1.0	CLEAN	
1072f7201.d	11201992645	YS1	14-DEC-2009 17:44	931553	1242521	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1073f7301.d	11201992646	YS1	14-DEC-2009 17:57	931553	1242521	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1074f7401.d	1242264001	YS1	14-DEC-2009 18:09	931553	1242264	5.0 ENRG	UPLOAD BOTH COLUMNS, USE HIGHER
1075f7501.d	1242521001	YS1	14-DEC-2009 18:22	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER

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Instrument Batch: /chem/ecd1a.i/121409.b

1076f7601.d	11201992647	YS1	14-DEC-2009 18:35	931553	1242521	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1077f7701.d	11201992648	YS1	14-DEC-2009 18:47	931553	1242521	5.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1078f7801.d	1242521002	YS1	14-DEC-2009 19:00	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1079f7901.d	1242521003	YS1	14-DEC-2009 19:12	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1080f8001.d	1242521004	YS1	14-DEC-2009 19:25	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1081f8101.d	1242521005	YS1	14-DEC-2009 19:38	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1082f8201.d	1WAR091211-60 04	YS1	14-DEC-2009 19:50	1121409	1.0	PASSED ON BOTH COLUMNS	
1083f8301.d	1WAR091130-99 05	YS1	14-DEC-2009 20:03	1121409	1.0	CLEAN	
1084f8401.d	1242521006	YS1	14-DEC-2009 20:15	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1085f8501.d	1242521007	YS1	14-DEC-2009 20:28	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1086f8601.d	1242521008	YS1	14-DEC-2009 20:41	931553	1242521	5.0 EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
1087f8701.d	1WAR091211-60 05	YS1	14-DEC-2009 20:53	1121409	1.0	PASSED ON BOTH COLUMNS	
1088f8801.d	1WAR091130-99 06	YS1	14-DEC-2009 21:06	1121409	1.0	CLEAN	
1089f8901.d	1242297010	YS1	14-DEC-2009 21:19	931140	10-782	1.0 LANL	

1090f9001.d	WAR091211-60 06	YS1	14-DEC-2009 21:31	121409	1.0	PASSED ON BOTH COLUMNS
1091f9101.d	WAR091130-99 07	YS1	14-DEC-2009 21:44	121409	1.0	CLEAN
1092f9201.d	1660	YS1	14-DEC-2009 21:56	121409	1.0	screen
1093f9301.d	1660	YS1	14-DEC-2009 22:09	121409	1.0	screen
1094f9401.d	1660	YS1	14-DEC-2009 22:22	121409	1.0	screen

Instrument Batch: /chem/ecdl1a.i/121409.b

## GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 01/29/2010 METHOD: ECD1-F-8082-121409.m

OPERATOR: YS1

REVIEWED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

HARDWARE CONFIGURATION &amp; METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA699  
ALUMINA LOT 1240553-A  
COPPER LOT 236547-A

## Calibration &amp; QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.  
Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,  
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,  
BF-Before, AF-After.

Sequence Number: /chem/ecdl.a.i/012810a.b

Injection Volume: 0.5 uL

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	WARI00105-99 01	YS1	128-JAN-2010 09:16		1012810a	1.01		CLEAN
1002f0201.d	WARI00104-60 01	YS1	128-JAN-2010 09:27		1012810a	1.01		DOSE RE-I-CAL
1003f0301.d	WARI001216-54	YS1	128-JAN-2010 09:37		1012810a	1.01		PASSED ON BOTH COLUMNS
1004f0401.d	WARI001217-42	YS1	128-JAN-2010 09:48		1012810a	1.01		PASSED ON BOTH COLUMNS
1005f0501.d	WARI001217-48	YS1	128-JAN-2010 09:58		1012810a	1.01		PASSED ON BOTH COLUMNS
1006f0601.d	WARI00104-32	YS1	128-JAN-2010 10:09		1012810a	1.01		PATTERN ONLY
1007f0701.d	WARI00104-21	YS1	128-JAN-2010 10:19		1012810a	1.01		PATTERN ONLY
1008f0801.d	WARI00104-62	YS1	128-JAN-2010 10:30		1012810a	1.01		PATTERN ONLY
1009f0901.d	WARI00107-68	YS1	128-JAN-2010 10:40		1012810a	1.01		DOSE RE-I-CAL
1010f1001.d	WARI00128-01 60	YS1	128-JAN-2010 10:51		1012810a	1.01		ARI660 I-CAL LEVEL 1
1011f1101.d	WARI00128-02 60	YS1	128-JAN-2010 11:01		1012810a	1.01		ARI660 I-CAL LEVEL 2
1012f1201.d	WARI00128-03 60	YS1	128-JAN-2010 11:12		1012810a	1.01		ARI660 I-CAL LEVEL 3
1013f1301.d	WARI00128-04 60	YS1	128-JAN-2010 11:22		1012810a	1.01		ARI660 I-CAL LEVEL 4
1014f1401.d	WARI00104-01-01	YS1	128-JAN-2010 11:34		1012810a	1.01		ARI660 I-CAL LEVEL 5
1015f1501.d	WARI00104-60 01	YS1	128-JAN-2010 11:44		1012810a	1.01		PASSED ON BOTH COLUMNS

Instrument Batch: /chem/ecdl.a.i/012810a.b

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1016f1601.d	WAR100122-68	YS1	28-JAN-2010 11:55		1012810a		1.01		DOSE RE-ICAL	
1017f1701.d	WAR091219-DDT	YS1	28-JAN-2010 12:05		1012810a		1.01		DDT ANALOG STANDARD	
1018f1801.d	WAR100128-05 68	YS1	28-JAN-2010 12:18		1012810a		1.01		ARI268 I-CAL LEVEL 1	
1019f1901.d	WAR100128-06 68	YS1	28-JAN-2010 12:29		1012810a		1.01		ARI268 I-CAL LEVEL 2	
1020f2001.d	WAR100128-07 68	YS1	28-JAN-2010 12:39		1012810a		1.01		ARI268 I-CAL LEVEL 3	
1021f2101.d	WAR100128-08 68	YS1	28-JAN-2010 12:50		1012810a		1.01		ARI268 I-CAL LEVEL 4	
1022f2201.d	WAR100104-05	YS1	28-JAN-2010 13:00		1012810a		1.01		ARI268 1-CAL LEVEL 5	
1023f2301.d	WAR100107-68	YS1	28-JAN-2010 13:11		1012810a		1.01		PASSED ON BOTH COLUMNS	
1024f2401.d	WAR100105-99 02	YS1	28-JAN-2010 13:21		1012810a		1.01		CLEAN	
1025f2501.d	1202026135	YS1	28-JAN-2010 13:32		145586		1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1026f2601.d	1202026136	YS1	28-JAN-2010 13:42		145586		1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1027f2701.d	145586001	YS1	28-JAN-2010 13:53		145586		250.01NNES		UPLOAD BOTH COLUMNS, USE HIGHER	
1028f2801.d	1202026137	YS1	28-JAN-2010 14:05		145586		250.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1029f2901.d	1202026138	YS1	28-JAN-2010 14:18		145586		250.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1030f3001.d	1245586002	YS1	28-JAN-2010 14:30		145586		50.01NNES		UPLOAD BOTH COLUMNS, USE HIGHER	
1031f3101.d	1245586003	YS1	28-JAN-2010 14:43		145586		1.01NNES		UPLOAD BOTH COLUMNS, USE HIGHER	
1032f3201.d	WAR100104-60 02	YS1	28-JAN-2010 14:56		1012810a		1.01		PASSED ON BOTH COLUMNS	
1033f3301.d	WAR091216-54 02	YS1	28-JAN-2010 15:06		1012810a		1.01		PASSED ON BOTH COLUMNS	
1034f3401.d	WAR091217-42 02	YS1	28-JAN-2010 15:16		1012810a		1.01		PASSED ON BOTH COLUMNS	
1035f3501.d	WAR091217-48 02	YS1	28-JAN-2010 15:27		1012810a		1.01		PASSED ON BOTH COLUMNS	

Instrument Batch: /chem/ecdl.a.i/012810a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	WAR100104-32 02	YS1	28-JAN-2010 15:38		1012810a		1.01	PATTERN ONLY
1037f3701.d	WAR100104-21 02	YS1	28-JAN-2010 15:48		1012810a		1.01	PATTERN ONLY
1038f3801.d	WAR100104-62 02	YS1	28-JAN-2010 15:58		1012810a		1.01	PATTERN ONLY
1039f3901.d	WAR100122-68 02	YS1	28-JAN-2010 16:09		1012810a		1.01	PASSED ON BOTH COLUMNS





1065f6501.d	1245381002	YS1	128-JAN-2010 21:36	1945963	110-1380	1	1.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1066f6601.d	1WARI00104-60 05	YS1	128-JAN-2010 21:48		1012810a	1	1.01	PASSED ON BOTH COLUMNS	
1067f6701.d	1WARI00105-99 06	YS1	128-JAN-2010 22:01		1012810a	1	1.01	CLEAN	
1068f6801.d	1245384001	YS1	128-JAN-2010 22:13	1945963	110-1382	1	1.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1069f6901.d	11202026133	YS1	128-JAN-2010 22:26	1945963	110-1382	1	1.01QC A	UPLD	BOTH COLUMNS, USE HIGHER
1070f7001.d	11202026134	YS1	128-JAN-2010 22:39	1945963	110-1382	1	1.01QC A	UPLD	BOTH COLUMNS, USE HIGHER
1071f7101.d	1245384002	YS1	128-JAN-2010 22:51	1945963	110-1382	1	1.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1072f7201.d	1245384003	YS1	128-JAN-2010 23:04	1945963	110-1382	1	5.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1073f7301.d	1245384004	YS1	128-JAN-2010 23:16	1945963	110-1382	1	1.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1074f7401.d	1245384005	YS1	128-JAN-2010 23:29	1945963	110-1382	1	1.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1075f7501.d	1245384006	YS1	128-JAN-2010 23:41	1945963	110-1382	1	1.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl.a.i/012810a.b

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1 Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client		Comments
1076f7601.d	1245384007	YS1	128-JAN-2010 23:54	1945963	110-1382	1	5.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1077f7701.d	1245384008	YS1	129-JAN-2010 00:07	1945963	110-1382	1	5.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1078f7801.d	1WARI00104-60 06	YS1	129-JAN-2010 00:19		1012810a	1	1.01	PASSED ON BOTH COLUMNS	
1079f7901.d	1WARI00105-99 07	YS1	129-JAN-2010 00:32		1012810a	1	1.01	CLEAN	
1080f8001.d	1245384012	YS1	129-JAN-2010 00:45	1945963	110-1382	1	1.01LANTL	UPLD	BOTH COLUMNS, USE HIGHER
1081f8101.d	1WARI00104-60 07	YS1	129-JAN-2010 00:57		1012810a	1	1.01	PASSED ON BOTH COLUMNS	
1082f8201.d	1WARI00105-99 08	YS1	129-JAN-2010 01:10		1012810a	1	1.01	CLEAN	
1083f8301.d	11202026309	YS1	129-JAN-2010 01:22	1946042	1EUI-7483	1	1.01QC A	UPLD	BOTH COLUMNS, USE HIGHER
1084f8401.d	11202026310	YS1	129-JAN-2010 01:35	1946042	1EUI-7483	1	1.01QC A	UPLD	BOTH COLUMNS, USE HIGHER
1085f8501.d	11202026313	YS1	129-JAN-2010 01:48	1946042	1EUI-7483	1	1.01QC A	UPLD	BOTH COLUMNS, USE HIGHER
1086f8601.d	1245309001	YS1	129-JAN-2010 02:00	1946042	1EUI-7483	1	1.01CARE	UPLD	BOTH COLUMNS, USE HIGHER
1087f8701.d	11202026311	YS1	129-JAN-2010 02:13	1946042	1EUI-7483	1	1.01QC A	UPLD	BOTH COLUMNS, USE HIGHER
1088f8801.d	11202026312	YS1	129-JAN-2010 02:25	1946042	1EUI-7483	1	1.01QC A	UPLD	BOTH COLUMNS, USE HIGHER

089f8901.d	WARI00104-60 08	YS1	29-JAN-2010 02:38		012810a		1.01	PASSED ON BOTH COLUMNS
090f9001.d	WARI00105-99 09	YS1	29-JAN-2010 02:51		012810a		1.01	CLEAN

Instrument Batch: /chem/ecd1a.i/012810a.b

## GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 01/29/2010

METHOD: ECD1-F-8082-121409.m

OPERATOR: YS1

REVIEWED BY: \_\_\_\_\_

HARDWARE CONFIGURATION &amp; METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA699  
ALUMINA LOT 1240553-A  
COPPER LOT 236547-A

DATE: \_\_\_\_\_

## Calibration &amp; QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std IDs: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak, DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time, BF-Before, AF-After.

Sequence Number: /chem/ecdl.a.i/012910.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0301.d	WAR100105-99 01	YS1	129-JAN-2010 06:12		012910	1.01		CLEAN
002f0201.d	WAR100104-60 01	YS1	129-JAN-2010 06:22		012910	1.01		DOSE RE I-CAL
003f0301.d	WAR091216-54	YS1	129-JAN-2010 06:33		012910	1.01		PASSED ON BOTH COLUMNS
004f0401.d	WAR091217-42	YS1	129-JAN-2010 06:43		012910	1.01		PASSED ON BOTH COLUMNS
005f0501.d	WAR091217-48	YS1	129-JAN-2010 06:54		012910	1.01		PASSED ON BOTH COLUMNS
006f0601.d	WAR100104-32	YS1	129-JAN-2010 07:04		012910	1.01		PATTERN ONLY
007f0701.d	WAR100104-21	YS1	129-JAN-2010 07:15		012910	1.01		PATTERN ONLY
008f0801.d	WAR100104-62	YS1	129-JAN-2010 07:25		012910	1.01		PATTERN ONLY
009f0901.d	WAR100107-68	YS1	129-JAN-2010 07:36		012910	1.01		PATTERN ONLY
010f1001.d	WAR100129-01 60	YS1	129-JAN-2010 07:46		012910	1.01		ARI660 I-CAL LEVEL 1
011f1101.d	WAR100129-02 60	YS1	129-JAN-2010 07:57		012910	1.01		ARI660 I-CAL LEVEL 2
012f1201.d	WAR100129-03 60	YS1	129-JAN-2010 08:07		012910	1.01		ARI660 I-CAL LEVEL 3
013f1301.d	WAR100129-04 60	YS1	129-JAN-2010 08:18		012910	1.01		ARI660 I-CAL LEVEL 4
014f1401.d	WAR100104-01	YS1	129-JAN-2010 08:59		012910	1.01		ARI660 I-CAL LEVEL 5
015f1501.d	WAR100104-60 01	YS1	129-JAN-2010 09:09		012910	1.01		PASSED ON BOTH COLUMNS

Instrument Batch: /chem/ecdl.a.i/012910.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1601.d		WARI091219-DDT		YS1		29-JAN-2010 09:20				1012910		1.01		DDT ANALOG STANDARD	
1017f1701.d		WARI00105-99 02		YS1		29-JAN-2010 09:30				1012910		1.01		CLEAN	
1018f1801.d		1202027001		YS1		29-JAN-2010 09:41		1946348		110-1416		1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1019f1901.d		1202027002		YS1		29-JAN-2010 09:51		1946348		110-1416		1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1020f2001.d		1245609001		YS1		29-JAN-2010 10:02		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1021f2101.d		1245609002		YS1		29-JAN-2010 10:14		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1022f2201.d		1245609003		YS1		29-JAN-2010 10:27		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1023f2301.d		1202027003		YS1		29-JAN-2010 10:40		1946348		110-1416		1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1024f2401.d		1202027004		YS1		29-JAN-2010 10:52		1946348		110-1416		1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1025f2501.d		1245609004		YS1		29-JAN-2010 11:05		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1026f2601.d		1245609005		YS1		29-JAN-2010 11:17		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1027f2701.d		1245609006		YS1		29-JAN-2010 11:30		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1028f2801.d		WARI00104-60 02		YS1		29-JAN-2010 11:42				1012910		1.01		PASSED ON BOTH COLUMNS	
1029f2901.d		WARI00105-99 03		YS1		29-JAN-2010 11:53				1012910		1.01		CLEAN	
1030f3001.d		1245609007		YS1		29-JAN-2010 12:03		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1031f3101.d		1245609008		YS1		29-JAN-2010 12:16		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1032f3201.d		1245609009		YS1		29-JAN-2010 12:28		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1033f3301.d		1245609010		YS1		29-JAN-2010 12:41		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1034f3401.d		1245609011		YS1		29-JAN-2010 12:54		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	
1035f3501.d		1245609012		YS1		29-JAN-2010 13:06		1946348		110-1416		1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER	

Instrument Batch: /chem/ecd1a.i/012910.b

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Data File	GEI Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	1245609013	YS1	29-JAN-2010 13:19	1946348	110-1416		1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1037f3701.d	1245609014	YS1	29-JAN-2010 13:31	1946348	110-1416		1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1038f3801.d	1245609015	YS1	29-JAN-2010 13:44	1946348	110-1416		1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1039f3901.d	1245609016	YS1	29-JAN-2010 13:56	1946348	110-1416		1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	WARI00104-60 03	YS1	29-JAN-2010 14:09		1012910		1.01	PASSED ON BOTH COLUMNS

Instrument Batch: /chem/ecdl1a.i/012910.b

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## GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/08/2010

METHOD: ECD1-F-8082-121409.m

OPERATOR: YS1

REVIEWED BY: \_\_\_\_\_

DATE: 02/08/2010

HARDWARE CONFIGURATION &amp; METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA699  
ALUMINA LOT 1240553-A  
COPPER LOT 236547-A

## Calibration &amp; QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,  
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,  
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/020510.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	WAR100105-99 01	YS1	105-FEB-2010 06:56		1020510	1.01		CLEAN
1002f0201.d	WAR100203-60 01	YS1	105-FEB-2010 07:06		1020510	1.01		PASSED ON BOTH COLUMNS
1003f0301.d	WAR091216-54	YS1	105-FEB-2010 07:17		1020510	1.01		PASSED ON BOTH COLUMNS
1004f0401.d	WAR091217-42	YS1	105-FEB-2010 07:27		1020510	1.01		PASSED ON BOTH COLUMNS
1005f0501.d	WAR091217-48	YS1	105-FEB-2010 07:38		1020510	1.01		PASSED ON BOTH COLUMNS
1006f0601.d	WAR100104-32	YS1	105-FEB-2010 07:48		1020510	1.01		PATTERN ONLY
1007f0701.d	WAR100104-21	YS1	105-FEB-2010 07:59		1020510	1.01		PATTERN ONLY
1008f0801.d	WAR100104-62	YS1	105-FEB-2010 08:09		1020510	1.01		PASSED ON BOTH COLUMNS
1009f0901.d	WAR100107-68	YS1	105-FEB-2010 08:20		1020510	1.01		PASSED ON BOTH COLUMNS
1010f1001.d	WAR091219-DDT	YS1	105-FEB-2010 08:31		1020510	1.01		DDT ANALOG STANDARD
1011f1101.d	WAR100105-99 02	YS1	105-FEB-2010 08:41		1020510	1.01		CLEAN
1012f1201.d	11202033246	YS1	105-FEB-2010 08:52		110-1462	1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER
1013f1301.d	11202033247	YS1	105-FEB-2010 09:02		110-1462	1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER
1014f1401.d	1245786001	YS1	105-FEB-2010 09:13		110-1462	1.01LANE		UPLOAD BOTH COLUMNS, USE HIGHER
1015f1501.d	1245795001	YS1	105-FEB-2010 09:23		110-1470	1.01LANE		UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecd1a.i/020510.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f3601.d	1245795002	1YS1	105-FEB-2010 09:36	1949033	110-1470	1	1.01	LANTL	1ARI268 RE TO CONFIRM	
1017f1701.d	1245795003	1YS1	105-FEB-2010 09:48	1949033	110-1470	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1018f1801.d	1245795004	1YS1	105-FEB-2010 10:01	1949033	110-1470	1	1.01	LANTL	1ARI268 RE TO CONFIRM	
1019f1901.d	1245795005	1YS1	105-FEB-2010 10:13	1949033	110-1470	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1020f2001.d	1245795006	1YS1	105-FEB-2010 10:26	1949033	110-1470	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1021f2101.d	1245795007	1YS1	105-FEB-2010 10:39	1949033	110-1470	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1022f2201.d	1245795008	1YS1	105-FEB-2010 10:51	1	1020510	1	1.01		1PASSED ON BOTH COLUMNS	
1023f2301.d	1245795009	1YS1	105-FEB-2010 11:02	1	1020510	1	1.01		1CLEAN	
1024f2401.d	1245795008	1YS1	105-FEB-2010 11:12	1949033	110-1470	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1025f2501.d	1245803006	1YS1	105-FEB-2010 11:25	1949033	110-1473	1	1.01	LANTL	1ARI268 RE TO CONFIRM	
1026f2601.d	1245803007	1YS1	105-FEB-2010 11:37	1949033	110-1473	1	1.01	LANTL	1ARI268 RE TO CONFIRM	
1027f2701.d	1245803008	1YS1	105-FEB-2010 11:50	1949033	110-1473	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1028f2801.d	1245959001	1YS1	105-FEB-2010 12:03	1949033	110-1510	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1029f2901.d	1245959002	1YS1	105-FEB-2010 12:15	1949033	110-1510	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1030f3001.d	1245959012	1YS1	105-FEB-2010 12:28	1949033	110-1510	1	1.01	LANTL	1UPL0AD BOTH COLUMNS, USE HIGHER	
1031f3101.d	1245959012	1YS1	105-FEB-2010 12:40	1	1020510	1	1.01		1PASSED ON BOTH COLUMNS	
1032f3201.d	1245969002	1YS1	105-FEB-2010 12:51	1	1020510	1	1.01		1CLEAN	
1033f3301.d	1245969001	1YS1	105-FEB-2010 13:01	1949033	110-1512	1	1.01	LANTL	1RE RESULT DID NOT MATCH WITH MS/MSD	
1034f3401.d	1202033248	1YS1	105-FEB-2010 13:14	1949033	110-1512	1	1.01	QC A	1DUSE	
1035f3501.d	1202033249	1YS1	105-FEB-2010 13:27	1949033	110-1512	1	1.01	QC A	1DUSE	
1036f3601.d	1245969002	1YS1	105-FEB-2010 13:39	1949033	110-1512	1	1.01	LANTL	1ARI268 RE TO CONFIRM	

Instrument Batch: /chem/ecd1a.i/020510.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1037f3701.d	1245969003	1YS1	105-FEB-2010 13:52	1949033	110-1512	1	1.01	LANTL 1UPL0AD BOTH COLUMNS, USE HIGHER
1038f3801.d	1245969003	1YS1	105-FEB-2010 14:05	1	1020510	1	1.01	1PASSED ON BOTH COLUMNS
1039f3901.d	1245969003	1YS1	105-FEB-2010 14:15	1	1020510	1	1.01	1CLEAN
1040f4001.d	1202026314	1YS1	105-FEB-2010 14:26	1946047	1020510	1	1.01	QC A 1REPORT FROM ECD 8



1041f4101.d	1202026315	YS1	05-FEB-2010 14:36	1946047			1.0 QC A	REPORT FROM ECD 8	
1042f4201.d	1243861001	YS1	05-FEB-2010 14:47	1946047		2010MDLVECD11262-L	1.0 QCOA	UPLOAD BOTH COLUMNS	
1043f4301.d	1243861002	YS1	05-FEB-2010 14:57	1946047		2010MDLVECD11262-L	1.0 QCOA	UPLOAD BOTH COLUMNS	
1044f4401.d	1243861003	YS1	05-FEB-2010 15:08	1946047		2010MDLVECD11262-L	1.0 QCOA	UPLOAD BOTH COLUMNS	
1045f4501.d	1243861004	YS1	05-FEB-2010 15:18	1946047		2010MDLVECD11262-L	1.0 QCOA	UPLOAD BOTH COLUMNS	
1046f4601.d	1MAR100203-60 05	YS1	05-FEB-2010 15:29		1020510		1.0	PASSED ON BOTH COLUMNS	
1047f4701.d	1MAR100105-99 06	YS1	05-FEB-2010 15:39		1020510		1.0	CLEAN	

Instrument Batch: /chem/ecd1a.i/020510.b

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# Prep Logbook

## Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 949031 Verified by: \_\_\_\_\_  
Analyst: Andrew Schwemlin  
Method: SW846 3550B  
Lab SOP: GL-OA-E-010 REV# 18  
Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202033246 MB	04-FEB-2010 20:32:00	30	H2SO4/KM2	2	9	1	0.03333	
1202033247 LCS	04-FEB-2010 20:32:00	30	H2SO4/KM2	2	9	1	0.03333	
245786001	04-FEB-2010 20:32:00	30.05	H2SO4/KM2	2	9	1	0.03328	
245795001	04-FEB-2010 20:32:00	30.05	H2SO4/KM2	2	9	1	0.03328	
245795002	04-FEB-2010 20:32:00	30.19	H2SO4/KM2	2	9	1	0.03312	
245795003	04-FEB-2010 20:32:00	30.18	H2SO4/KM2	2	9	1	0.03313	
245795004	04-FEB-2010 20:32:00	30.01	H2SO4/KM2	2	9	1	0.03332	
245795005	04-FEB-2010 20:32:00	30.05	H2SO4/KM2	2	9	1	0.03328	
245795006	04-FEB-2010 20:32:00	30.03	H2SO4/KM2	2	9	1	0.0333	
245795007	04-FEB-2010 20:32:00	30.01	H2SO4/KM2	2	9	1	0.03332	
245795008	04-FEB-2010 20:32:00	30.02	H2SO4/KM2	2	9	1	0.03331	
245803006	04-FEB-2010 20:32:00	30.11	H2SO4/KM2	2	9	1	0.03321	
245803007	04-FEB-2010 20:32:00	30.04	H2SO4/KM2	2	9	1	0.03329	
245803008	04-FEB-2010 20:32:00	30.02	H2SO4/KM2	2	9	1	0.03331	
245959001	04-FEB-2010 20:32:00	30.19	H2SO4/KM2	2	9	1	0.03312	
245959002	04-FEB-2010 20:32:00	30.02	H2SO4/KM2	2	9	1	0.03331	
245959012	04-FEB-2010 20:32:00	30.03	H2SO4/KM2	2	9	1	0.0333	
245969001	04-FEB-2010 20:32:00	30.26	H2SO4/KM2	2	9	1	0.03328	
1202033248 MS (245969001)	04-FEB-2010 20:32:00	30.04	H2SO4/KM2	2	9	1	0.03305	
1202033249 MSD (245969001)	04-FEB-2010 20:32:00	30.04	H2SO4/KM2	2	9	1	0.03329	
245969002	04-FEB-2010 20:32:00	30.21	H2SO4/KM2	2	9	1	0.0331	
245969003	04-FEB-2010 20:32:00	30.11	H2SO4/KM2	2	9	1	0.03321	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202033247	PCB Laboratory Control	WEI00126-07	1	mL	Clean up Date: 2/4/10		
MS	1202033248	PCB Laboratory Control	WEI00126-07	1	mL	Clean up Initials: AJS		
MSD	1202033249	PCB Laboratory Control	WEI00126-07	1	mL	Verified By: AV		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	WEI00108-15	1	mL	Final Solvent: Hexane		
REGNT	All	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	Acetone	1264558	150	mL			
REGNT	All	Hexane	1264562-B2	150	mL			
REGNT	All	5% Potassium Permanganate	BI202457-F	5	mL			
SOURC	All	SODIUM SULFATE	1265308	30	g			