

Wednesday, December 23, 2009

LOS ALAMOS
NATIONAL LABORATORY

Page 1 of 2
REQUEST NUMBER: 10-1074

ATTN: Valerie Davis

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

These Samples are on:
LANL Request Number: 10-1074
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 12/23/2009
TURNAROUND/REPORT DUE: 1/22/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8082		1	RE12-10-7596	R	12/21/2009	
		1	RE12-10-7597	R	12/21/2009	
		1	RE12-10-7606	R	12/21/2009	
		1	RE12-10-7607	R	12/21/2009	
		1	RE12-10-7608	R	12/21/2009	
SW-846:8321A_MOD		1	RE12-10-7596	R	12/21/2009	
		1	RE12-10-7597	R	12/21/2009	
		1	RE12-10-7598	R	12/21/2009	
		1	RE12-10-7599	R	12/21/2009	

Wednesday, December 23, 2009

Page 2 of 2
REQUEST NUMBER: 10-1074

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD						
		1	RE12-10-7600	R	12/21/2009	
		1	RE12-10-7601	R	12/21/2009	
		1	RE12-10-7602	R	12/21/2009	
		1	RE12-10-7603	R	12/21/2009	
		1	RE12-10-7606	R	12/21/2009	
		1	RE12-10-7607	R	12/21/2009	
		1	RE12-10-7608	R	12/21/2009	

Final Page of REQUEST NUMBER 10-1074

Wednesday, December 23, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1074

LOS ALAMOS

REQUEST NUMBER: 10-1074

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/22/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7606	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7607	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7596	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7597	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7608	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7600	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7601	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7602	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7599	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7598	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7603	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7596

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1155		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-12-003	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610634	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.6		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	B	S		EXCAVATED: YES (NO) / NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES (NO) / NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 12/21/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Light brown silty sand, small rocks and roots

SAMPLE COMMENTS: NA

LOCATION DESC: 3-5, center of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 49$ dpm
 $\text{BX} \leq 2530$ dpm

PID $\frac{\text{ambient}}{\text{reading}} = \frac{0.0}{0.0}$ ppm
 WE negative

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name) (Signature) <i>Jaqueline</i>	Date/Time 12/21/09 1610
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7597

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1204		SUB-MEDIA:		TUFF 1	
PRS ID: C-12-003		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 12-610634		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		2.5		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		3.0		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: N/E		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY 12M 12/21/09	None	y	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

light brown silty sand, small rocks and roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

3-5

FIELD SCREENING/MEASUREMENT RESULTS:

α ≤ 49 dpm
β ≤ 2160 dpm

PID

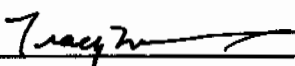
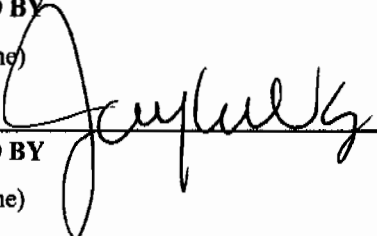
ambient
reading0.0
0.0 ppm

COLLECTED BY (PRINT)

TLMCFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) TLMCFarland (Signature) 	Date/Time 12/21/09 1616	RECEIVED BY (Printed Name) (Signature) 	Date/Time 12/21/09 1616
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7598

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/21/09	MEDIA:	QBT3	All h
TIME COLLECTED (HH:MM)		1223	SUB-MEDIA:	TUFF 1	NA
PRS ID:	C-12-003	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	12-610635	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 12/21/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	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 slightly moist silty sand, numerous rocks, few roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

3-3, south side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

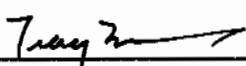
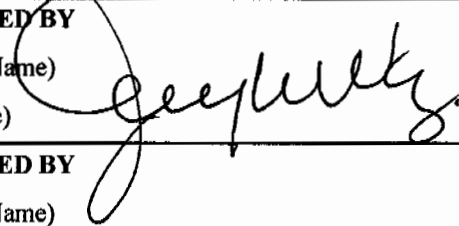
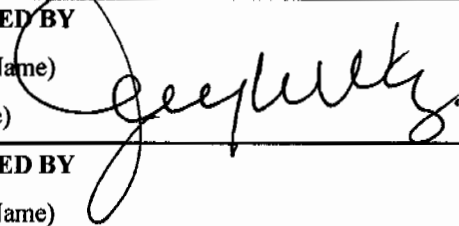
 $\alpha \leq 33$ dpm $BY \leq 2280$ dpmPID $\frac{\text{ambient}}{\text{reading}} \frac{0.0}{0.0}$ ppm
HE negative

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) 	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 12/21/09 1616
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7599

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:	OBT3		ok
TIME COLLECTED (HH:MM)		1230		SUB-MEDIA:	TUFF 1		↓
PRS ID:	C-12-003	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610635	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.9		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	ok		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 75m 12/21/09	None	y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	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 dry Tuff

RE12-10-7610 FR

SAMPLE COMMENTS:

LOCATION DESC: 3-3 south side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 33$ dpm
 $\beta \leq 2190$ dpmPID ambient reading $\frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	12/21/09	(Printed Name) Jeffrey G.	12/21/09
(Signature) Tracy Z...	1610	(Signature)	1610
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7600

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:	OBT3		Allh
TIME COLLECTED (HH:MM)		1310		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-12-003	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610636	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 12M 12/21/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1L	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish beach moist silty sand, some rocks and roots

SAMPLE COMMENTS:

LOCATION DESC: 3-4 west side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 22$ dpm PID ambient reading $\frac{0.0}{0.0}$ ppm
 $\text{Bx} \leq 1859$ dpm HE negative

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Nicholas Gallegos

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tray 2	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/21/09 1610
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7601

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1319		SUB-MEDIA:		TUFF1	
PRS ID: C-12-003		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 12-610636		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		2.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		3.2		SCREEN/PORT DESC: NA			
FIELD MATRIX: R		OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 7/21/12/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	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 dry tuff

FD RE12-10-7608

SAMPLE COMMENTS:

NA

LOCATION DESC: 3-4, west side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 60$ dpm
 $\beta \leq 2700$ dpm

PID ambient reading 0.0 / 0.0 ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Nicholas Gallegos

RELINQUISHED BY (Printed Name) TLMcFarland (Signature)	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name) (Signature)	Date/Time 12/21/09 1610
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7602

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1331		SUB-MEDIA:		TUFF 1	
PRS ID: C-12-003		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 12-610637		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA		NO/NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO/NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 724 12/21/09	None	Y	
1	↓	Met+U+CLO4+C N	1 LITER POLY 1 L	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 silty sand, slightly moist, numerous rocks, few roots

SAMPLE COMMENTS: NA

LOCATION DESC: 3-1, north side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

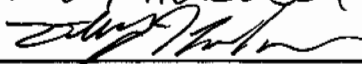
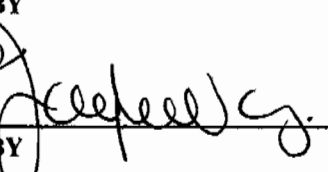
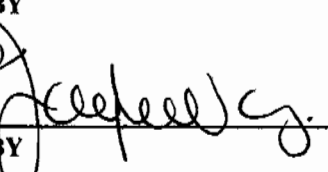
$\alpha \pm 22$ dpm
 $\beta \pm 2120$ dpm
 PID ambient reading 0.0 ppm
 HE negative 1.8

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Nicholas Gallegos

RELINQUISHED BY (Printed Name) Kelly Henderson (Signature) 	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 12/21/09 1610
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7603

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:	OBT3		ok
TIME COLLECTED (HH:MM)		1405		SUB-MEDIA:	TUFF 1		↓
PRS ID:	C-12-003		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610637		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		1.9	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		2.5	SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R		ok	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 72m 12/21/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1L	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 dry, stiff

SAMPLE COMMENTS:

NA

LOCATION DESC:

3-1, north side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 49 \text{ dpm}$
 $\text{Bg} \leq 2730 \text{ dpm}$
 $\text{PID} \frac{\text{ambient reading}}{\text{reading}} = \frac{0.0}{0.0} \text{ ppm}$

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Nikolas Gallegos

RELINQUISHED BY (Printed Name) Kelly Henderson (Signature) <i>[Signature]</i>	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 12/21/09 1610
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7606

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/21/2009	MEDIA:	OBT3	Alh
TIME COLLECTED (HH:MM)		1415	SUB-MEDIA:	TUFF 1	NA
PRS ID:	C-12-003	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	UNK	12-410438	FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	0.5	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	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY 7th 12/21/09	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY L	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand, slightly moist, few roots, few rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

3-2, east side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 55$ dpm
BX ≤ 2080 dpm

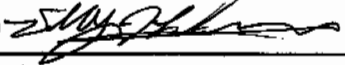


PID $\frac{\text{ambient}}{\text{reading}} = \frac{0.0}{1.3}$ ppm
HE negative

COLLECTED BY (PRINT)

T McFarland

REVIEWED BY (PRINT)

Kelly Henderson

RELINQUISHED BY (Printed Name) Kelly Henderson (Signature) 	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 12/21/09 1610
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7607

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/21/2009	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1438	SUB-MEDIA:	TUFF 1	↓
PRS ID:	C-12-003	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	UNK	12-G10638	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	NA	↓
TOP DEPTH:	0	2.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	2.7	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	ok	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA	COMPOSITE TIME INTERVAL:	NA	WATER FLOWING: YES/NO/NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 72m 12/21/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1L	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 3-2, east side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:


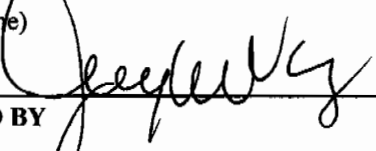
$\alpha \leq 66$ dpm
BY ≤ 2490 dpm

PID $\frac{\text{ambient}}{\text{reading}} = \frac{0.0}{0.6}$ ppm

COLLECTED BY (PRINT)

JL McFarlane

REVIEWED BY (PRINT) Nicholas Gallegos

RELINQUISHED BY (Printed Name) Kelly Henderson (Signature) 	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name) (Signature) 	Date/Time 12/21/09 1610
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2489

EVENT NAME: 4thQtr. FY09 - AOC C-12-003 - Threemile Canyon

SAMPLE ID: RE12-10-7608

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA: QBT3		ok	
TIME COLLECTED (HH:MM)		1319		SUB-MEDIA: TUFF 1		↓	
PRS ID:	C-12-003	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	UNK	12-610636		FIELD QC TYPE: ED		↓	
LOCATION TYPE:	GENERIC	ok		FIELD PREP: NA		↓	
TOP DEPTH:	0	2.0		SAMPLE USAGE: QC		↓	
BOTTOM DEPTH:	0	3.2		SCREEN/PORT DESC: NA			
FIELD MATRIX:	R	ok		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	12m 12/21/09 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE12-10-7601

Pumice gray dry stuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

3-4, west side of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

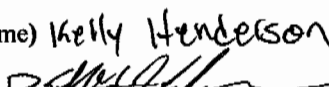
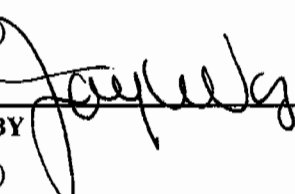
$\alpha \pm 60$ dpm PID $\frac{\text{ambient}}{\text{reading}}$ $\frac{0.0}{0.0}$ ppm
 $\text{BX} \pm 2700$ dpm

COLLECTED BY (PRINT)

Th McFarlane

REVIEWED BY (PRINT)

Nikolas Gallegos

RELINQUISHED BY (Printed Name) Kelly Henderson (Signature) 	Date/Time 12/21/09 1610	RECEIVED BY (Printed Name) (Signature) 	Date/Time 12/21/09 1610
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):

RE12-10-7555

56

57

58

61

62

63

96

97

98

99

RE12-16-7600

7603

7606

7601

7608

7602

7607

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.

.....

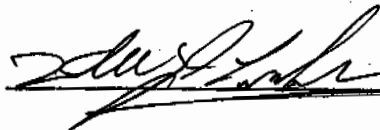
The following samples do not require rad screening data for the reasons stated (list sample numbers):

Reason:

.....

Print Last Name Henderson

Signature



Date

12/21/09

Rad Screening Data Release Form

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

RE12-10-7555

56

57

58

61

62

63

96

97

98

99

RE12-10-7600

7603

7606

7601

7608

7602

7607

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):

Reason:

.....

Print Last Name Henderson

Signature



Date

12/21/09

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1074 VALIDATION DATE: 02/04/2010 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Mary Donovan ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check


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


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

- In the CCVs bracketing all samples except RE12-10-7598, -7601, -7603 and -7608, the %Ds were >20% but ≤40% with negative bias for PETN. The associated sample results were NDs and, thus, were qualified UJ,HE7c.
- The LCS %R was > the laboratory UAL for TATB. All associated sample results were NDs and, thus, were not qualified.
- The MS/MSD %Rs were > the laboratory UAL for TATB. All associated sample results were NDs and, thus, were not qualified.
- 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 retention time criteria could not be evaluated. No sample data were qualified as a result.
- It should also be noted that the parent sample for the MS/MSD was a LANL sample from another RN and that the raw data for the parent sample were not included in the data package. No sample data were qualified as a result.


Reviewed by: Monica Dymerski Level I Date: 02/04/10

VALIDATOR'S SIGNATURE: Mary A. Donovan DATE: 02/04/2010


DATA VALIDATION COVER SHEET	
5122-1 Data Validation Cover Sheet	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	
5122-2 LC/MS/MS High Explosive Analytical Data Validation Checklist	Records Use only 


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

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST		
5122-2		Records Use only
LC/MS/MS High Explosive Analytical Data Validation Checklist		 Los Alamos <small>NATIONAL LABORATORY</small> <small>EST. 1942</small>

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

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

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

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

Yes No N/A				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: RE12-10-7606

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519001

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105110a

Date Analyzed: 08-JAN-10 00:51

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN UJ,HE7c	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		

MAD
02/04/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7606

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519001

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050054.wiff

Date Analyzed: 06-JAN-10 04:22

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7607

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519002

Sample Amount 2

Moisture: 6.2

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105111a

Date Analyzed: 08-JAN-10 01:20

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 UJ,HE7c	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: RE12-10-7607

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519002

Sample Amount 2

Moisture: 6.2

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050055.wiff

Date Analyzed: 06-JAN-10 04:38

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7596

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519003

Sample Amount 2

Moisture: 10.0

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105112a

Date Analyzed: 08-JAN-10 01:50

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 UJ,HE7c	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: RE12-10-7596

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519003

Sample Amount 2

Moisture: 10.0

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050056.wiff

Date Analyzed: 06-JAN-10 04:54

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7597

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519004

Sample Amount 2

Moisture: 5.1

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105113a

Date Analyzed: 08-JAN-10 02:19

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 UJ,HE7c	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: RE12-10-7597

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519004

Sample Amount 2

Moisture: 5.1

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050057.wiff

Date Analyzed: 06-JAN-10 05:09

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: RE12-10-7608

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519005

Sample Amount 2

Moisture: 10.7

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108014a

Date Analyzed: 08-JAN-10 23:38

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: RE12-10-7608

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519005

Sample Amount 2

Moisture: 10.7

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050058.wiff

Date Analyzed: 06-JAN-10 05:25

Units: ug/kg

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

*Concentration =

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

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7600

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105115a

Date Analyzed: 08-JAN-10 03:18

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: RE12-10-7600

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519006

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050059.wiff

Date Analyzed: 06-JAN-10 05:41

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7601

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108015a

Date Analyzed: 09-JAN-10 00:08

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: RE12-10-7601

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050060.wiff

Date Analyzed: 06-JAN-10 05:56

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7602

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105117a

Date Analyzed: 08-JAN-10 04:17

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 UJ,HE7c	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: RE12-10-7602

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519008

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050061.wiff

Date Analyzed: 06-JAN-10 06:12

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7599

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105118a

Date Analyzed: 08-JAN-10 04:47

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 UJ,HE7c	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7599

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-02

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050062.wiff

Date Analyzed: 06-JAN-10 06:28

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7598

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108016a

Date Analyzed: 09-JAN-10 00:37

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7598

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050066.wiff

Date Analyzed: 06-JAN-10 07:31

Units: ug/kg

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

*Concentration =

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

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02/04/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7603

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108017a

Date Analyzed: 09-JAN-10 01:07

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: RE12-10-7603

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050067.wiff


Date Analyzed: 06-JAN-10 07:46

Units: ug/kg

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

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

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

Section I.

REQUEST NUMBER: 10-1074 VALIDATION DATE: 02/05/2010 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Mary Donovan 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 PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	

☐ OTHER (DESCRIBE): PCBs

Section II. Completeness Check

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

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

1. It should be noted that the parent sample for the MS/MSD was a LANL sample from another RN and that the raw data for the parent sample were not included in the data package. The analysis of an MS/MSD is not required for PCBs and, thus, no sample results were qualified.

Reviewed by: Monica Dymerski **Level I** **Date:** 02/05/10

VALIDATOR'S SIGNATURE: Mary A. Donovan DATE: 02/05/2010

Form 5116-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project
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ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1074
Lab Sample ID: 243519003Date Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2AJ
Analyst: JAOC
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 10
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	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

MAD
02/05/10

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1074
Lab Sample ID: 243519004

Date Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 5.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7597
Batch ID: 937093
Run Date: 12/29/2009 12:57
Prep Date: 12/28/2009 20:43
Data File: 031f3101.d
031b3101.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.51	ug/kg	1.17	3.51	1
11104-28-2	Aroclor-1221	U	3.51	ug/kg	1.17	3.51	1
11141-16-5	Aroclor-1232	U	3.51	ug/kg	1.17	3.51	1
53469-21-9	Aroclor-1242	U	3.51	ug/kg	1.17	3.51	1
12672-29-6	Aroclor-1248	U	3.51	ug/kg	1.17	3.51	1
11097-69-1	Aroclor-1254	U	3.51	ug/kg	1.17	3.51	1
11096-82-5	Aroclor-1260	U	3.51	ug/kg	1.17	3.51	1

PCB

Page 1 of 1

Certificate of Analysis
Sample Summary

SDG Number:	10-1074	Date Collected:	12/21/2009 12:00	Matrix:	R
Lab Sample ID:	243519001	Date Received:	12/24/2009 09:30	%Moisture:	10.4
Client ID:	RE12-10-7606	Client:	LANL010	Project:	LANL01004
Batch ID:	937093	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	12/29/2009 12:24	Inst:	ECD2A.I	Dilution:	1
Prep Date:	12/28/2009 20:43	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	028f2801.d	Aliquot:	30.17 g	Final Volume:	1 mL
	028b2801.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	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

MAD
02/05/10

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1074
Lab Sample ID: 243519002Client ID: RE12-10-7607
Batch ID: 937093
Run Date: 12/29/2009 12:35
Prep Date: 12/28/2009 20:43
Data File: 029f2901.d
029b2901.dDate Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.19 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 6.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

MAD
02/05/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1074	Date Collected:	12/21/2009 12:00	Matrix:	R
Lab Sample ID:	243519005	Date Received:	12/24/2009 09:30	%Moisture:	10.7
Client ID:	RE12-10-7608	Client:	LANL010	Project:	LANL01004
Batch ID:	937093	Method:	SW846 8062	SOP Ref:	GL-OA-E-040
Run Date:	12/29/2009 13:08	Inst:	ECD2A.I	Dilution:	1
Prep Date:	12/28/2009 20:43	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	032f3201.d	Aliquot:	30.11 g	Final Volume:	1 mL
	032b3201.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	3.72	ug/kg	1.24	3.72	1
11104-28-2	Aroclor-1221	U	3.72	ug/kg	1.24	3.72	1
11141-16-5	Aroclor-1232	U	3.72	ug/kg	1.24	3.72	1
53469-21-9	Aroclor-1242	U	3.72	ug/kg	1.24	3.72	1
12672-29-6	Aroclor-1248	U	3.72	ug/kg	1.24	3.72	1
11097-69-1	Aroclor-1254	U	3.72	ug/kg	1.24	3.72	1
11096-82-5	Aroclor-1260	U	3.72	ug/kg	1.24	3.72	1

Wednesday, December 23, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1074

LOS ALAMOS

REQUEST NUMBER: 10-1074

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/22/2010

General Engineering Laboratories, Inc.,
Charleston, SC

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2435197

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7606	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7607	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7596	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7597	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7608	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7600	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7601	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7602	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7599	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7598	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7603	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

REQUEST NUMBER: 10-1074

Wednesday, December 23, 2009

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: 10-1074

Per Agreement Number: 125310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 12/23/2009

TURNAROUND/REPORT DUE: 1/22/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required

LAB REQUEST COMMENTS:

LANL ERM SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-7598	R	12/21/2009	
		1	RE12-10-7597	R	12/21/2009	
		1	RE12-10-7608	R	12/21/2009	
		1	RE12-10-7607	R	12/21/2009	
		1	RE12-10-7608	R	12/21/2009	
	SW-846:8321A_MOD	1	RE12-10-7596	R	12/21/2009	
		1	RE12-10-7597	R	12/21/2009	
		1	RE12-10-7598	R	12/21/2009	
		1	RE12-10-7599	R	12/21/2009	

REQUEST NUMBER: 10-1074

Wednesday, December 23, 2009

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE12-10-7800	R	12/21/2009	
		1	RE12-10-7801	R	12/21/2009	
		1	RE12-10-7802	R	12/21/2009	
		1	RE12-10-7803	R	12/21/2009	
		1	RE12-10-7808	R	12/21/2009	
		1	RE12-10-7807	R	12/21/2009	
		1	RE12-10-7808	R	12/21/2009	

Final Page of REQUEST NUMBER 10-1074



January 05, 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: 243519
SDG: 10-1074

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on December 24, 2009, 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: 10-1074
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 243519
SDG: 10-1074

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 243519
SDG # : 10-1074**

January 05, 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 December 24, 2009 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>
243519001	RE12-10-7606
243519002	RE12-10-7607
243519003	RE12-10-7596
243519004	RE12-10-7597
243519005	RE12-10-7608
243519006	RE12-10-7600
243519007	RE12-10-7601
243519008	RE12-10-7602
243519009	RE12-10-7599
243519010	RE12-10-7598
243519011	RE12-10-7603

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.

for
Stancio

Valerie Davis

Project Manager

List of current GEL Certifications as of 05 January 2010

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

Chain of Custody and Supporting Documentation

Wednesday, December 23, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1074

LOS ALAMOS

REQUEST NUMBER: 10-1074

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/22/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

243519/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7606	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7607	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7596	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7597	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7608	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE12-10-7600	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7601	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7602	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7599	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7598	1	AMBER GLASS	NMED Explosives list	Ice	R
RE12-10-7603	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date Time

Remarks:

Printed Name

Signature

Wednesday, December 23, 2009

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: 12/23/2009

TURNAROUND/REPORT DUE: 1/22/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

REQUEST NUMBER: 10-1074

These Samples are on:

LANL Request Number: 10-1074

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-7596	R	12/21/2009	
		1	RE12-10-7597	R	12/21/2009	
		1	RE12-10-7606	R	12/21/2009	
		1	RE12-10-7607	R	12/21/2009	
		1	RE12-10-7608	R	12/21/2009	
	SW-846:8321A_MOD	1	RE12-10-7596	R	12/21/2009	
		1	RE12-10-7597	R	12/21/2009	
		1	RE12-10-7598	R	12/21/2009	
		1	RE12-10-7599	R	12/21/2009	

Wednesday, December 23, 2009

REQUEST NUMBER: 10-1074

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD					
		1	RE12-10-7600	R	12/21/2009	
		1	RE12-10-7601	R	12/21/2009	
		1	RE12-10-7602	R	12/21/2009	
		1	RE12-10-7603	R	12/21/2009	
		1	RE12-10-7608	R	12/21/2009	
		1	RE12-10-7607	R	12/21/2009	
		1	RE12-10-7608	R	12/21/2009	

Final Page of REQUEST NUMBER 10-1074



SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1074		
Received By: Greg Tyler			Date Received: 12/24/09		
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.		
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60cpm		
Classified Radioactive II by RSO?		X			
COC/Samples marked containing PCBs?		X			
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:		
Samples identified as Foreign Soil?		X			

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 3-SC 14,15C
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: No time on Chain of Custody.
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers

7209 7849 3755 3C 7209 7849 3803 5C
 7209 7849 3788 4C 7209 7849 3825 14C
 7209 7849 3799 4C 7209 7849 3744 14C
 7209 7849 3858 4C 7209 7849 3733 15C
 7209 7849 3836 5C 7209 7849 3766 15C
 7209 7849 3777 5C
 7209 7849 3722 5C
 7209 7849 3847 5C

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

SHIP DATE: 23DEC09
ACTWT: 65.0 LB MAN
CAD: 0014176/CAFE2434

BILL SENDER

3^c
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

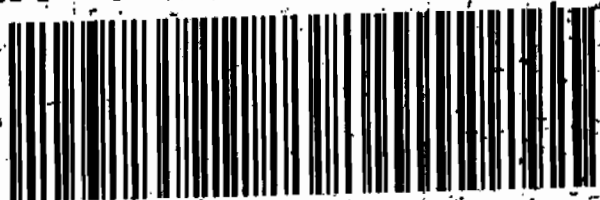
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63 7209 7849 3755
Mstr 7209 7849 3744 0201
PRIORITY OVERNIGHT

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

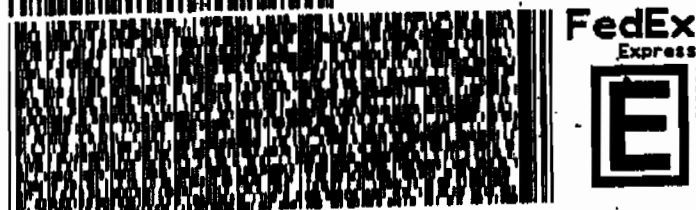
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01 7209 7849 3799
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ORIGIN ID: SAFA (505)665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
100 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23DEC09
ACTWT: 51.0 LB MAN
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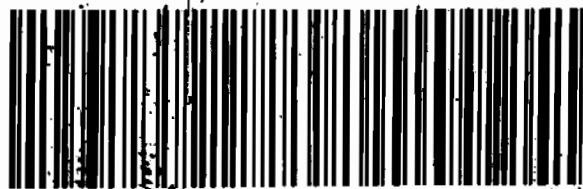
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
100 BLDG 1237 DPU 03

SHIP DATE: 23DEC09
ACTWT: 45.0 LB MAN
CAD: 0014176/CAFE2434

LOS ALAMOS, NM 87545
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GENERAL ENGINEERING LAB
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IGIN ID: SAFA (505)665-9966
YLENE VALDEZ
5 ALAMOS NATL LAB
00 BLDG 1237 DPU 03

5 ALAMOS, NM 87545
UNITED STATES US

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ALERIE DAVIS
GENERAL ENGINEERING LAB
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CHARLESTON SC 29407

(43)556-8171

EF: 6B01AMR3A0352VA00

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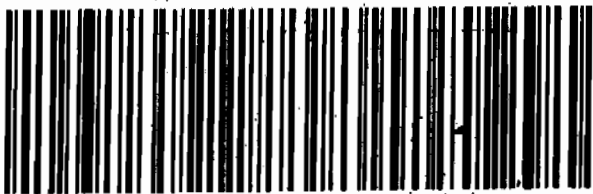


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IGIN ID: SAFA (505)665-9966
YLENE VALDEZ
5 ALAMOS NATL LAB
00 BLDG 1237 DPU 03

5 ALAMOS, NM 87545
UNITED STATES US

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040 SAVAGE RD

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Page 11 of 595

ORIGIN ID: SAFA (505)665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23DEC89
ACTWGT: 55.0 LB MAN
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ORIGIN ID: SAFA (505)665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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2040 SAVAGE RD

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23DEC89
ACTMGT: 82.8 LB MAN
CAD: 0014175/CAFE2434

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

ACTMGT: 82.8 LB MAN
CAD: 0014175/CAFE2434

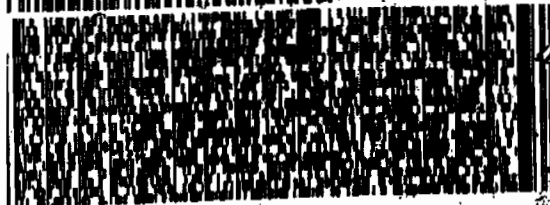
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Page 12 of 595

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TA00 BLDG 1237 DPU 03

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UNITED STATES US

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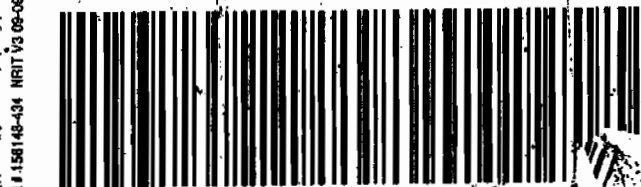
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23DEC89
ACTMGT: 82.8 LB MAN
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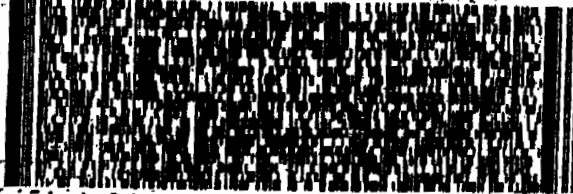
LOS ALAMOS, NM 87545
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CHARLESTON SC 29407

REF: 6801AMR2A054196D0

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156148-434 NRIT V3 08-09

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 10-1074**

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: 937041

Prep Batch Number: 937040

Sample Analysis

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

Sample ID	Client ID
243519001	RE12-10-7606
243519002	RE12-10-7607
243519003	RE12-10-7596
243519004	RE12-10-7597
243519005	RE12-10-7608
243519006	RE12-10-7600
243519007	RE12-10-7601
243519008	RE12-10-7602
243519009	RE12-10-7599
243519010	RE12-10-7598
243519011	RE12-10-7603
1202005126	Method Blank (MB)
1202005127	Laboratory Control Sample (LCS)
1202005624	243517008(RE12-10-7561) Matrix Spike (MS)
1202005625	243517008(RE12-10-7561) Matrix Spike Duplicate (MSD)

10-1074-EXPLCMS

Page 1 of 6

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 243517008 (RE12-10-7561) from SDG 10-1073 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.

10-1074-EXPLCMS

Page 2 of 6

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

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

Sample Re-extraction/Re-analysis

Samples 243519005 (RE12-10-7608) and 243519007 (RE12-10-7601) failed ISTD acceptance criteria. They were re-analyzed and passed acceptance criteria. The re-analysis data are reported.

Samples 243519010 (RE12-10-7598) and 243519011 (RE12-10-7603) were re-analyzed due to a CVS failing acceptance criteria. The re-analysis passed acceptance criteria and is reported.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS recovered TATB at 338%. The recovery limits are 47-166%. While TATB exhibited a high bias in the LCS, MS and MSD, it was not detected in the associated samples. The data are reported. Please see nonconformance report 778672.

QC Sample Designation

Client sample 243517008 (RE12-10-7561) from SDG 10-1073 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 188%. The recovery limits are 44-166%. While TATB exhibited a high bias in the LCS, MS and MSD, it was not detected in the associated samples. The data are reported. Please see nonconformance report 778672.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered TATB at 212%. The recovery limits are 44-166%. While TATB exhibited a high bias in the LCS, MS and MSD, it was not detected in the associated samples. The data are reported. Please see nonconformance report 778672.

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 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.

Miscellaneous Information

Nonconformance (NCR) Documentation

Nonconformance report 778672 was generated for this SDG.

The LCS recovered TATB at 338%. The recovery limits are 47-166%. While TATB exhibited a high bias in the LCS, MS and MSD, it was not detected in the associated samples. The data are reported.

The MS recovered TATB at 188%. The MSD recovered TATB at 212%. The recovery limits are 44-166%. While TATB exhibited a high bias in the LCS, MS and MSD, it was not detected in the associated samples. The data are reported.

Manual Integrations

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

Flagging Convention

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

Additional Comments

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

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

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

System Configuration

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

Chromatographic Columns

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

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

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

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

Certification Statement

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

Review Validation:

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

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

Reviewer: Herbert M. Mauer Date: 01/12/10

SAMPLE DATA SUMMARY

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7606

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519001

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105110a

Date Analyzed: 08-JAN-10 00:51

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7606

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519001

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050054.wiff

Date Analyzed: 06-JAN-10 04:22

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: RE12-10-7607

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519002

Sample Amount 2

Moisture: 6.2

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105111a

Date Analyzed: 08-JAN-10 01:20

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: RE12-10-7607

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519002

Sample Amount 2

Moisture: 6.2

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050055.wiff

Date Analyzed: 06-JAN-10 04:38

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7596

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519003

Sample Amount 2

Moisture: 10.0

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105112a

Date Analyzed: 08-JAN-10 01:50

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: RE12-10-7596

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519003

Sample Amount 2

Moisture: 10.0

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050056.wiff

Date Analyzed: 06-JAN-10 04:54

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7597

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519004

Sample Amount 2

Moisture: 5.1

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105113a

Date Analyzed: 08-JAN-10 02:19

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: RE12-10-7597

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519004

Sample Amount 2

Moisture: 5.1

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050057.wiff

Date Analyzed: 06-JAN-10 05:09

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: RE12-10-7608

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519005

Sample Amount 2

Moisture: 10.7

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108014a

Date Analyzed: 08-JAN-10 23:38

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: RE12-10-7608

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519005

Sample Amount 2

Moisture: 10.7

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050058.wiff

Date Analyzed: 06-JAN-10 05:25

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: RE12-10-7600

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105115a

Date Analyzed: 08-JAN-10 03:18

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: RE12-10-7600

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050059.wiff

Date Analyzed: 06-JAN-10 05:41

Units: ug/kg

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

*Concentration =

Instrument	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: RE12-10-7601

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108015a

Date Analyzed: 09-JAN-10 00:08

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: RE12-10-7601

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050060.wiff

Date Analyzed: 06-JAN-10 05:56

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7602

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105117a

Date Analyzed: 08-JAN-10 04:17

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: RE12-10-7602

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050061.wiff

Date Analyzed: 06-JAN-10 06:12

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7599

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105118a

Date Analyzed: 08-JAN-10 04:47

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: RE12-10-7599

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050062.wiff

Date Analyzed: 06-JAN-10 06:28

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7598

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108016a

Date Analyzed: 09-JAN-10 00:37

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7598

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050066.wiff

Date Analyzed: 06-JAN-10 07:31

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7603

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108017a

Date Analyzed: 09-JAN-10 01:07

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: RE12-10-7603

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050067.wiff

Date Analyzed: 06-JAN-10 07:46

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
243519001	RE12-10-7606	102	73.7 - 133.3	
243519001	RE12-10-7606	98	73.7 - 133.3	
243519002	RE12-10-7607	99.9	73.7 - 133.3	
243519002	RE12-10-7607	103	73.7 - 133.3	
243519003	RE12-10-7596	102	73.7 - 133.3	
243519003	RE12-10-7596	108	73.7 - 133.3	
243519004	RE12-10-7597	94.9	73.7 - 133.3	
243519004	RE12-10-7597	101	73.7 - 133.3	
243519005	RE12-10-7608	103	73.7 - 133.3	
243519005	RE12-10-7608	102	73.7 - 133.3	
243519006	RE12-10-7600	107	73.7 - 133.3	
243519006	RE12-10-7600	104	73.7 - 133.3	
243519007	RE12-10-7601	90.6	73.7 - 133.3	
243519007	RE12-10-7601	100	73.7 - 133.3	
243519008	RE12-10-7602	112	73.7 - 133.3	
243519008	RE12-10-7602	98	73.7 - 133.3	
243519009	RE12-10-7599	101	73.7 - 133.3	
243519009	RE12-10-7599	104	73.7 - 133.3	
243519010	RE12-10-7598	94	73.7 - 133.3	
243519010	RE12-10-7598	102	73.7 - 133.3	
243519011	RE12-10-7603	101	73.7 - 133.3	
243519011	RE12-10-7603	104	73.7 - 133.3	
1202005126	MB for batch 937040	103	73.7 - 133.3	
1202005126	MB for batch 937040	108	73.7 - 133.3	
1202005127	LCS for batch 937040	108	73.7 - 133.3	
1202005127	LCS for batch 937040	104	73.7 - 133.3	

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) 10-1074

Extract Batch Code: 937040

Date Extracted: 04-JAN-10

GEL LCS ID: 1202005127

GEL LCSDUP ID:

Analysis Date/Time: 07-JAN-10 18:27

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	4480	89.6					62.1 - 124
2,4,6-Trinitrotoluene	5000	4860	97.2					78.3 - 132
2,4-Dinitrotoluene	5000	4920	98.3					82.7 - 132
2,6-Dinitrotoluene	5000	4800	96					86.9 - 122
2-Amino-4,6-dinitrotoluene	5000	5180	104					84.2 - 149
4-Amino-2,6-dinitrotoluene	5000	4720	94.4					85.6 - 133
HMX	5000	4060	81.2					66.5 - 142
Nitrobenzene	5000	4130	82.5					71.8 - 126
PETN	5000	3870	77.3					64.6 - 147
RDX	5000	4500	89.9					78.7 - 144
Tetryl	5000	3500	69.9					31.2 - 119
m-Dinitrobenzene	5000	4370	87.5					80.9 - 127
m-Nitrotoluene	5000	4320	86.4					71.9 - 126
o-Nitrotoluene	5000	4190	83.8					75 - 123
p-Nitrotoluene	5000	4740	94.9					73.7 - 124

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) 10-1074

Extract Batch Code: 937040

Date Extracted: 04-JAN-10

GEL LCS ID: 1202005127

GEL LCSDUP ID:

Analysis Date/Time: 06-JAN-10 00:58

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	3410	68.2					64.8 - 128
2,6-Diamino-4-nitrotoluene	5000	3910	78.2					69.6 - 133
3,5-Dinitroaniline	5000	5320	106					77.3 - 123
tris(o-cresyl) phosphate	5000	5020	100					84.3 - 120
TATB	5000	16900	338 *					46.8 - 166

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

* Values outside of QC limits

3
High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE12-10-7561

Lab Code: GEL

GEL Job No (SDG) 10-1074

Extract Batch Code: 937040

Date Extracted: 04-JAN-10

GEL Spike ID: 1202005624

GEL SpikeDup ID: 1202005625

Analysis Date/Time: 07-JAN-10 21:54

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,6-Dinitrotoluene	5000	0	4860	97.1	4730	94.5	2.73	30	85.4 - 125
2-Amino-4,6-dinitrotoluene	5000	0	5860	117	4950	99.1	16.7	30	77.4 - 154
4-Amino-2,6-dinitrotoluene	5000	0	5570	111	4450	89	22.2	30	77.3 - 140
HMX	5000	0	3970	79.4	4050	81.1	2.1	30	66.7 - 144
Nitrobenzene	5000	0	3900	78	4560	91.2	15.6	30	70.4 - 129
2,4-Dinitrotoluene	5000	0	4650	93	4880	97.5	4.78	30	79.1 - 137
2,4,6-Trinitrotoluene	5000	0	5470	109	4730	94.7	14.4	30	83.4 - 138
1,3,5-Trinitrobenzene	5000	0	4410	88.3	4490	89.8	1.7	30	70.7 - 130
PETN	5000	0	3680	73.6	4350	87	16.7	30	61.9 - 153
RDX	5000	0	4250	85	4150	82.9	2.5	30	73 - 140
Tetryl	5000	0	3380	67.5	3560	71.3	5.37	30	46.8 - 138
m-Dinitrobenzene	5000	0	4580	91.5	4820	96.4	5.15	30	83.5 - 126
m-Nitrotoluene	5000	0	4660	93.2	4060	81.2	13.8	30	68.6 - 135
o-Nitrotoluene	5000	0	4550	91.1	3930	78.7	14.6	30	71.2 - 131
p-Nitrotoluene	5000	0	4990	99.8	4040	80.8	21.1	30	69.3 - 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: RE12-10-7561

Lab Code: GEL

GEL Job No (SDG) 10-1074

Extract Batch Code: 937040

Date Extracted:04-JAN-10

GEL Spike ID: 1202005624

GEL SpikeDup ID:1202005625

Analysis Date/Time: 06-JAN-10 02:48

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	3820	76.4	4300	86	11.8	30	51.6 - 127
2,6-Diamino-4-nitrotoluene	5000	0	4450	89	3830	76.6	15	30	58.9 - 135
TATB	5000	0	9390	188 *	10600	212 *	12.1	30	43.9 - 166
tris(o-cresyl) phosphate	5000	0	5020	100	5050	101	.596	30	79.1 - 124
3,5-Dinitroaniline	5000	0	5210	104	5280	106	1.34	30	72.8 - 125

#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): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-JAN-10 18:57

GEL Data File: EXP0105001a

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	553.819
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	556.158
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0

Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny
 Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010
 Printed: Wed Jan 06 12:44:40 2010, Page 1 of 71

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\010510expa.mdb, Time: Wed Jan 06 09:01:26 2010

Calibration: Untitled, Time: Wed Jan 06 12:43:40 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP01050001a

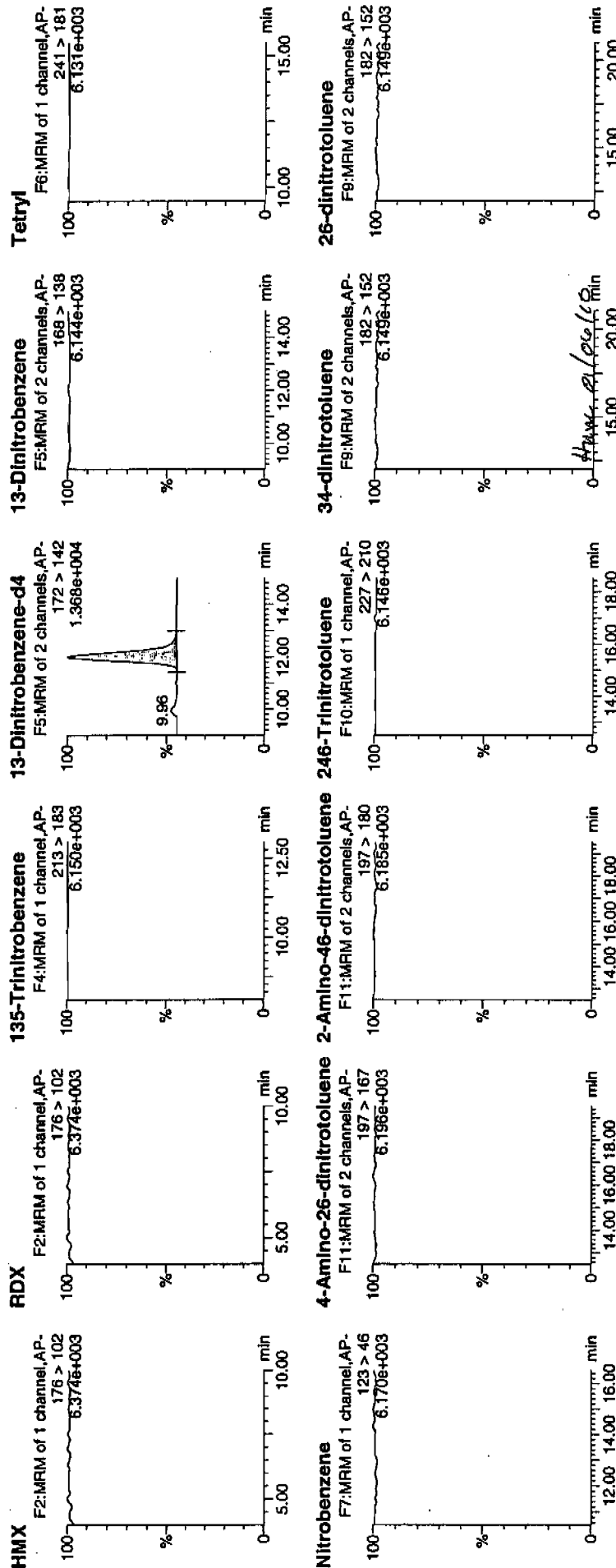
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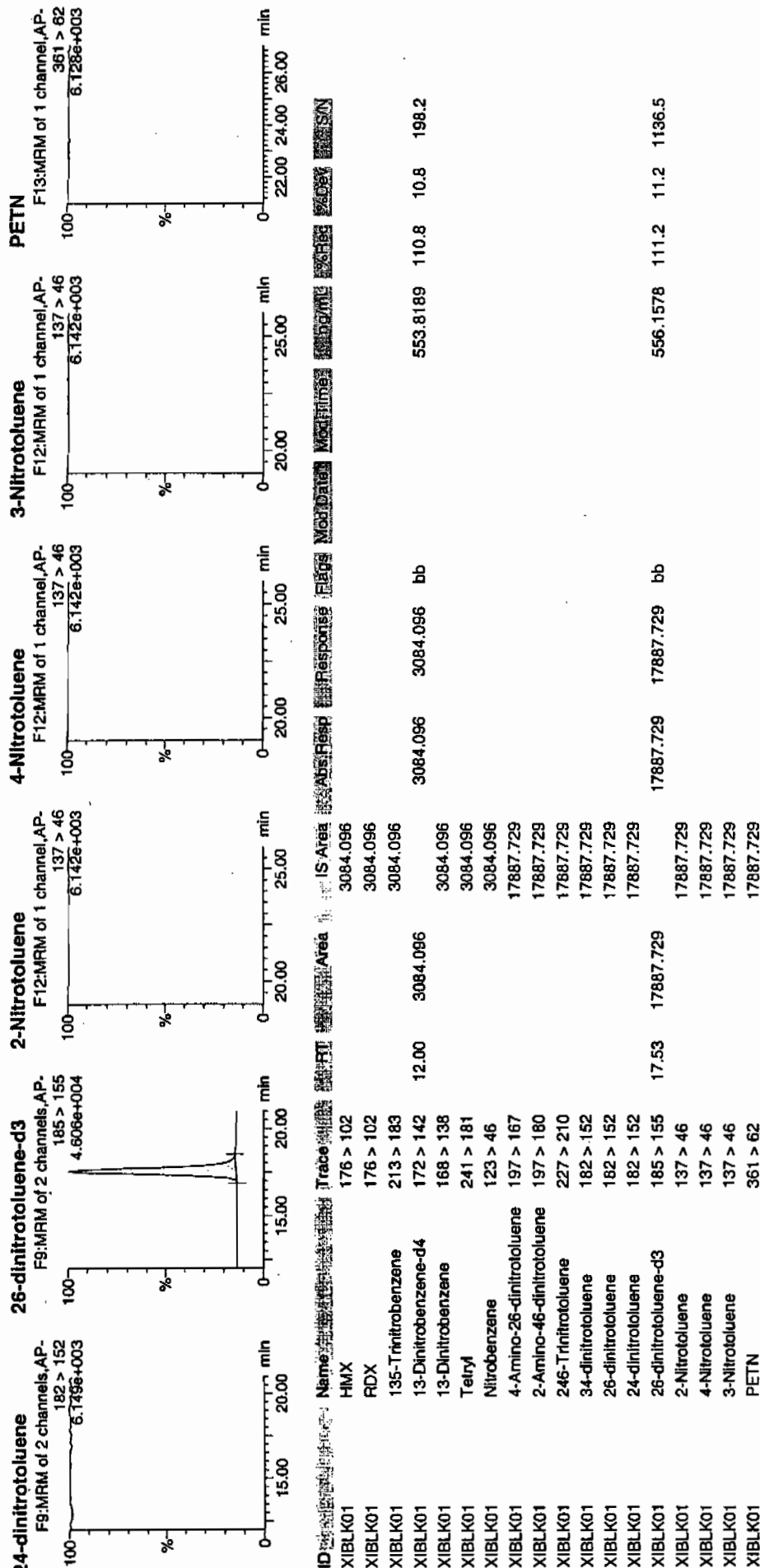
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Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-JAN-10 19:26

GEL Data File: EXP0105002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	555.293
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	571.06
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

Printed: Wed Jan 06 12:44:40 2010, Page 3 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

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Date: 05-Jan-2010

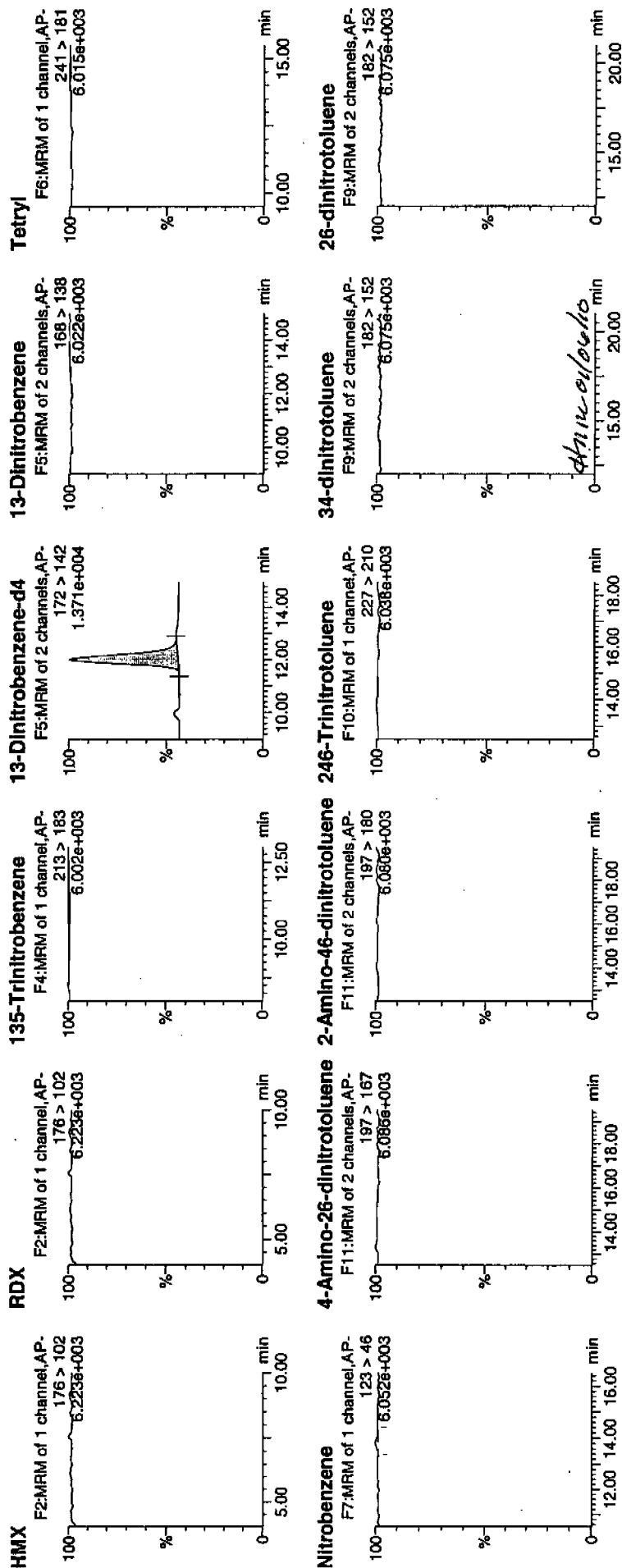
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1/6/10

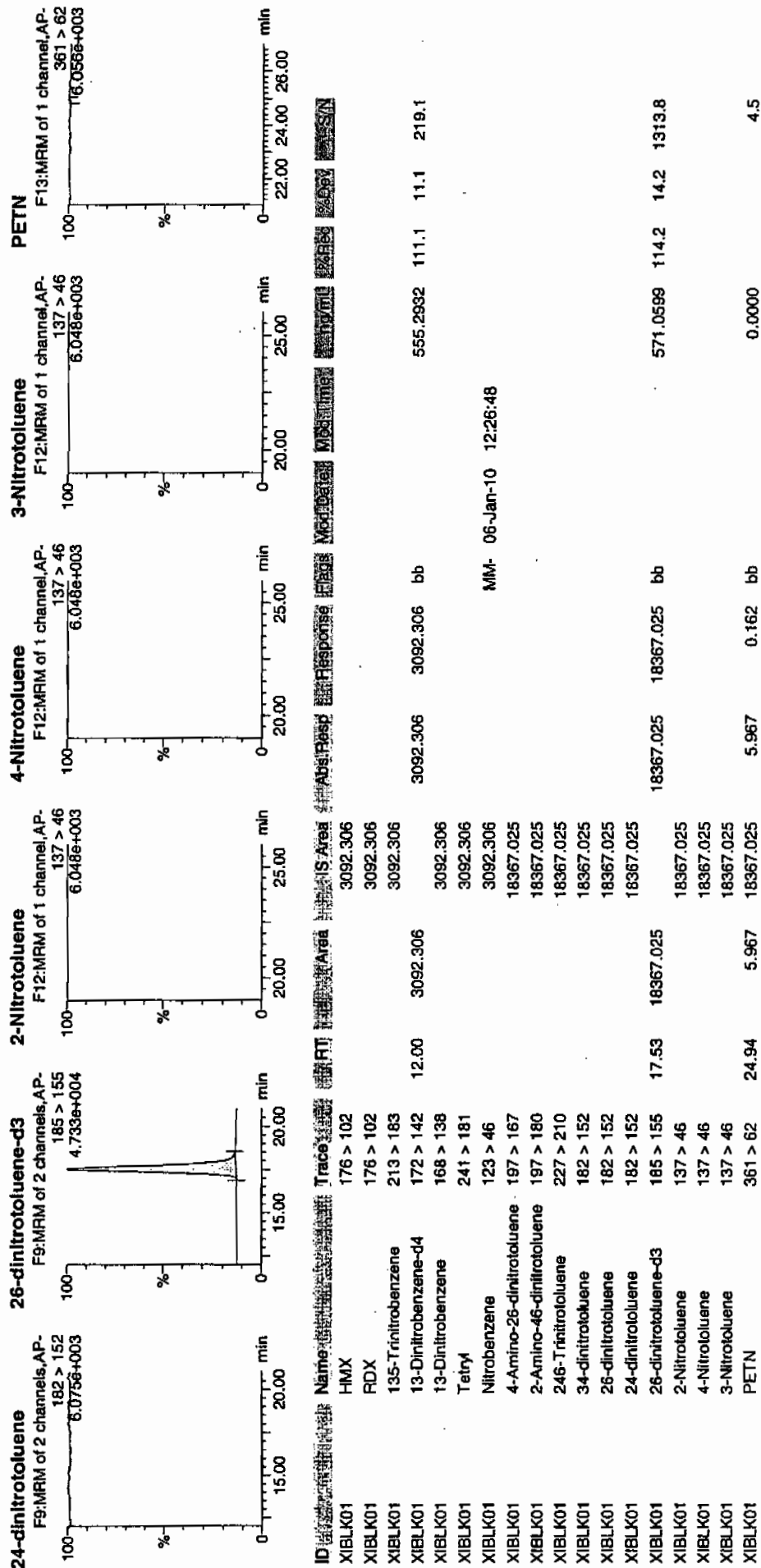
Page 56 of 595



Printed: Wed Jan 06 12:44:40 2010, Page 4 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-JAN-10 17:15

GEL Data File: EXP0108001a

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
Nitrobenzene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	483.878
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	501.47
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\010810expa.mdb, Time: Sat Jan 09 11:44:31 2010

Calibration: Untitled, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108001a

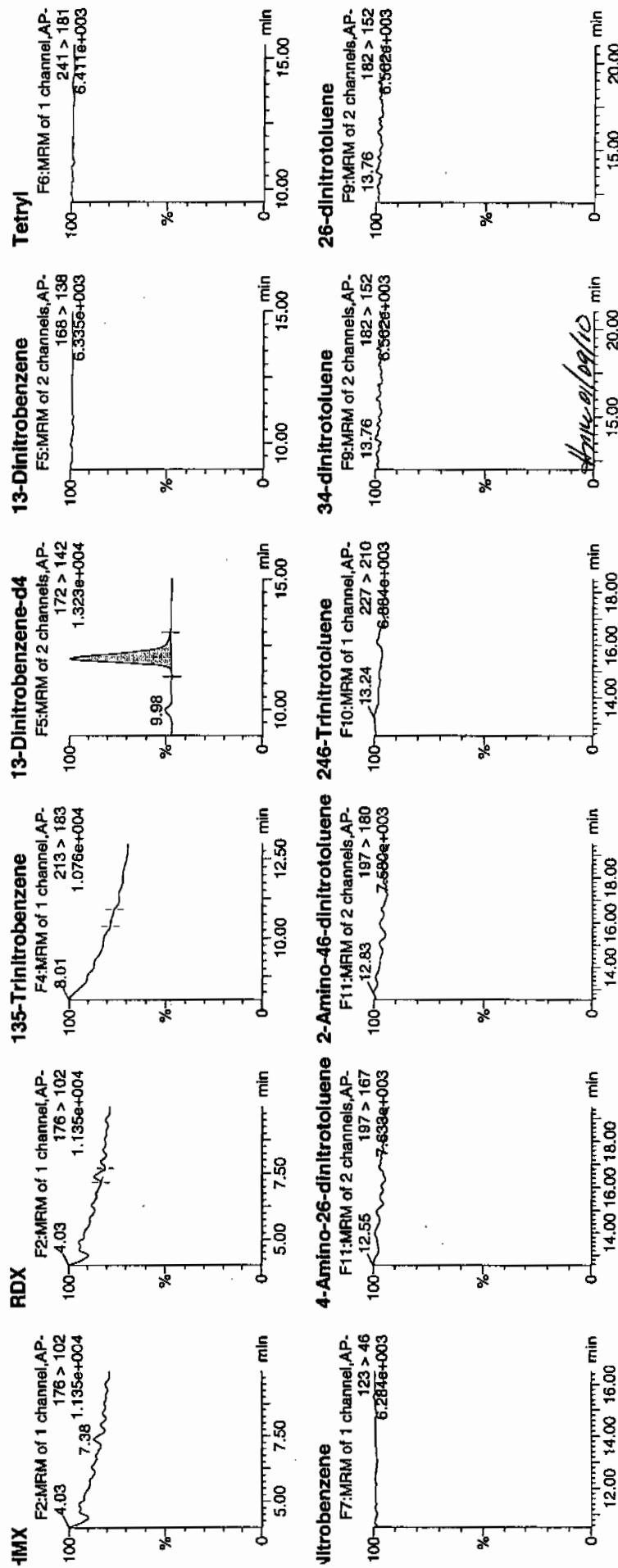
Date: 08-Jan-2010

Time: 17:15:04

D: XIBLK01

Val: 1:1,A

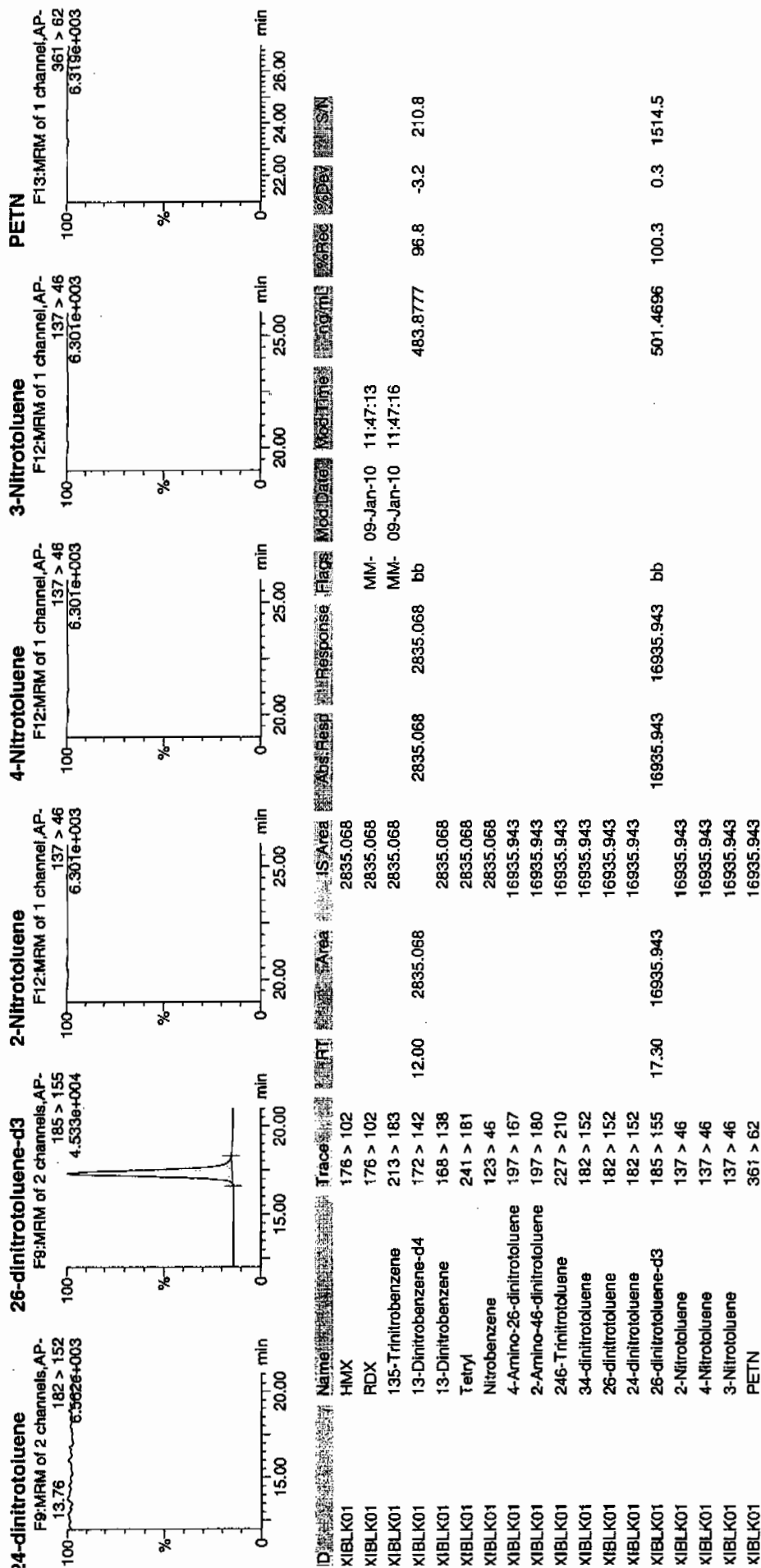
WTR
1/1/10



Printed: Sat Jan 09 12:02:23 2010, Page 2 of 61

Quantify Sample Report
 3EL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-JAN-10 17:44

GEL Data File: EXP0108002a

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	481.722
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	602.181
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\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP01080002a

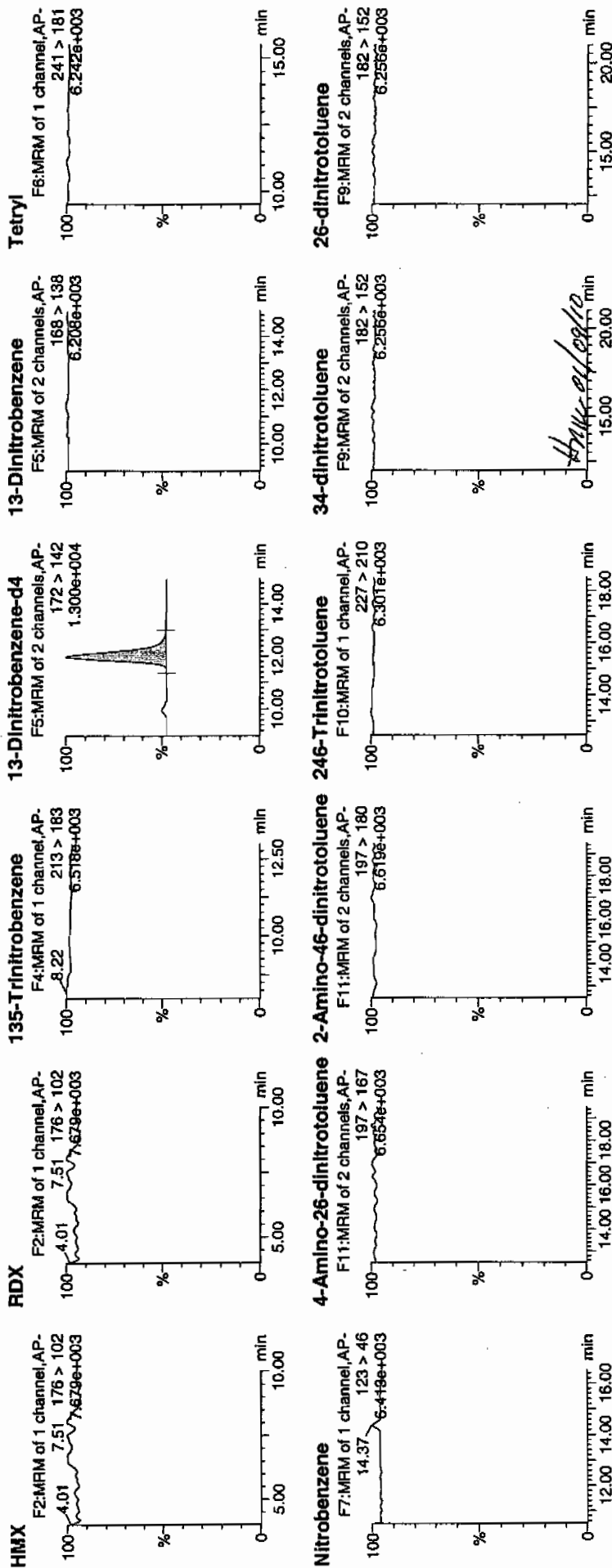
Date: 08-Jan-2010

Time: 17:44:36

ID: XIBLK01

Vial: 1:1,A

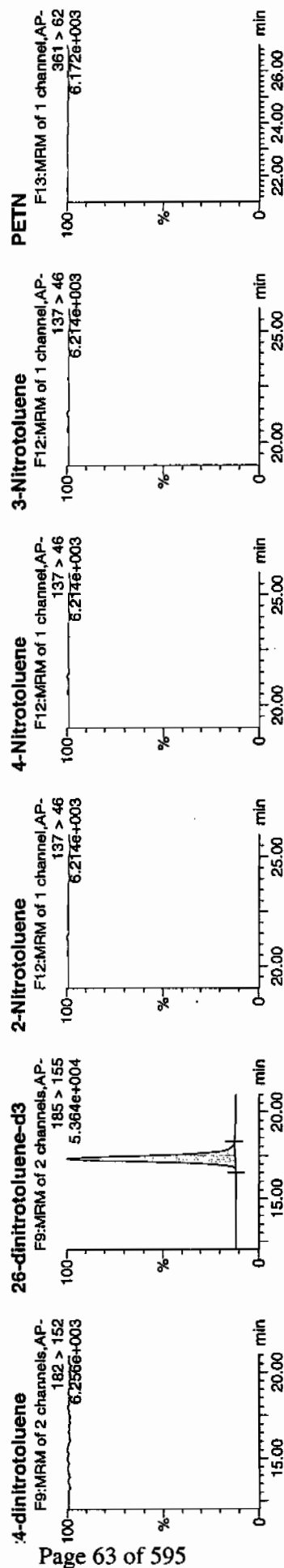
WAT
1/9/10



Printed: Sat Jan 09 12:02:23 2010, Page 4 of 61

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

[illegible]

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-JAN-10 14:30

GEL Data File: EXS01050001.wiff

Instrument ID: LCMSMS

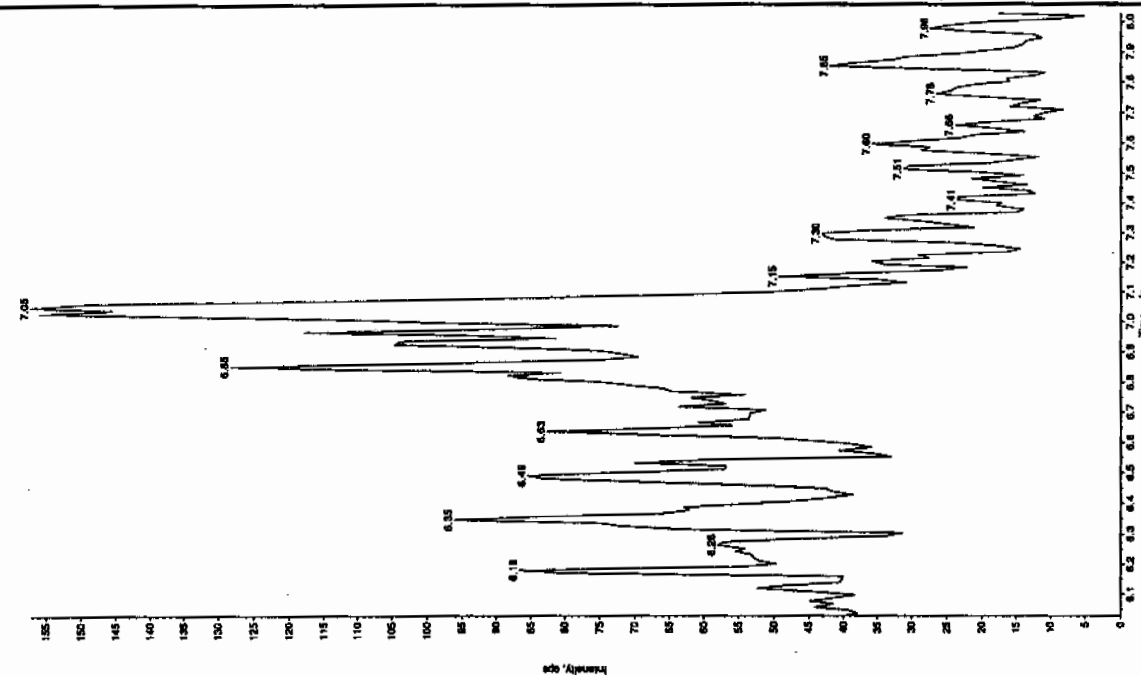
Column: Phenomenex Ultracarb 5u ODS(20)

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

01/16/11
2208

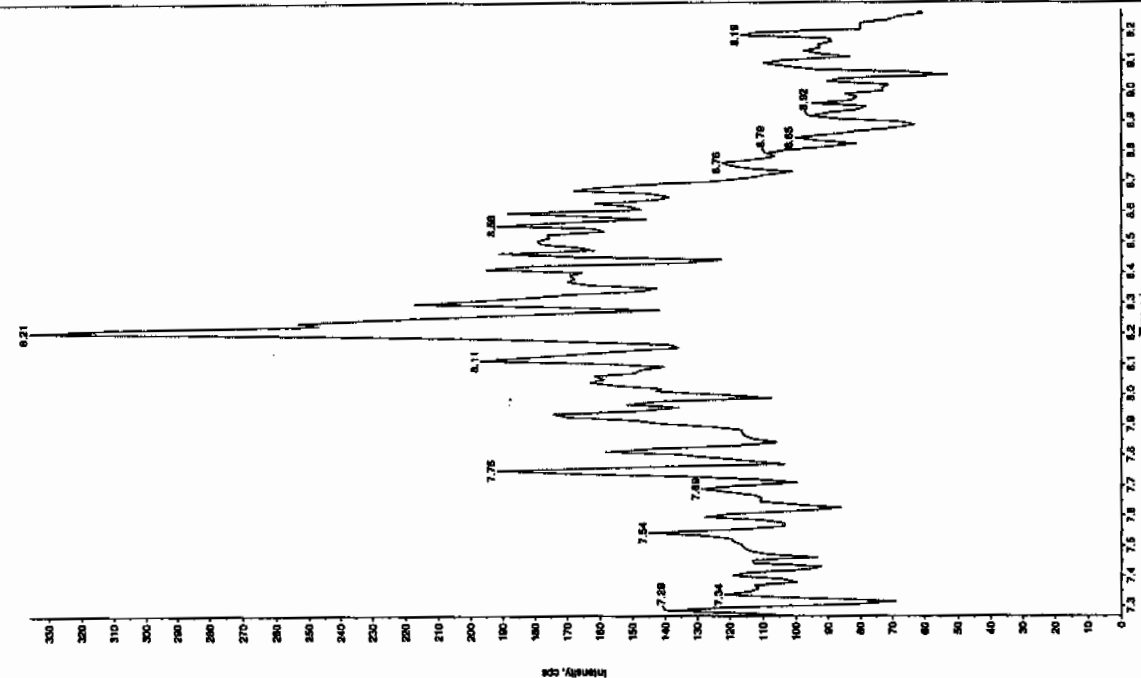
Sample Name: "XBL001" Sample ID: "111LEP" File: "EX301050001.wiff"
Peak Name: "TATB" Mass(es): 257.22043 amu
Concentration: "LCMSDEP_B" Acquisition: "1102.046.0 amu"

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/5/2010
Acq. Time: 2:30:25 PM
Modified: No

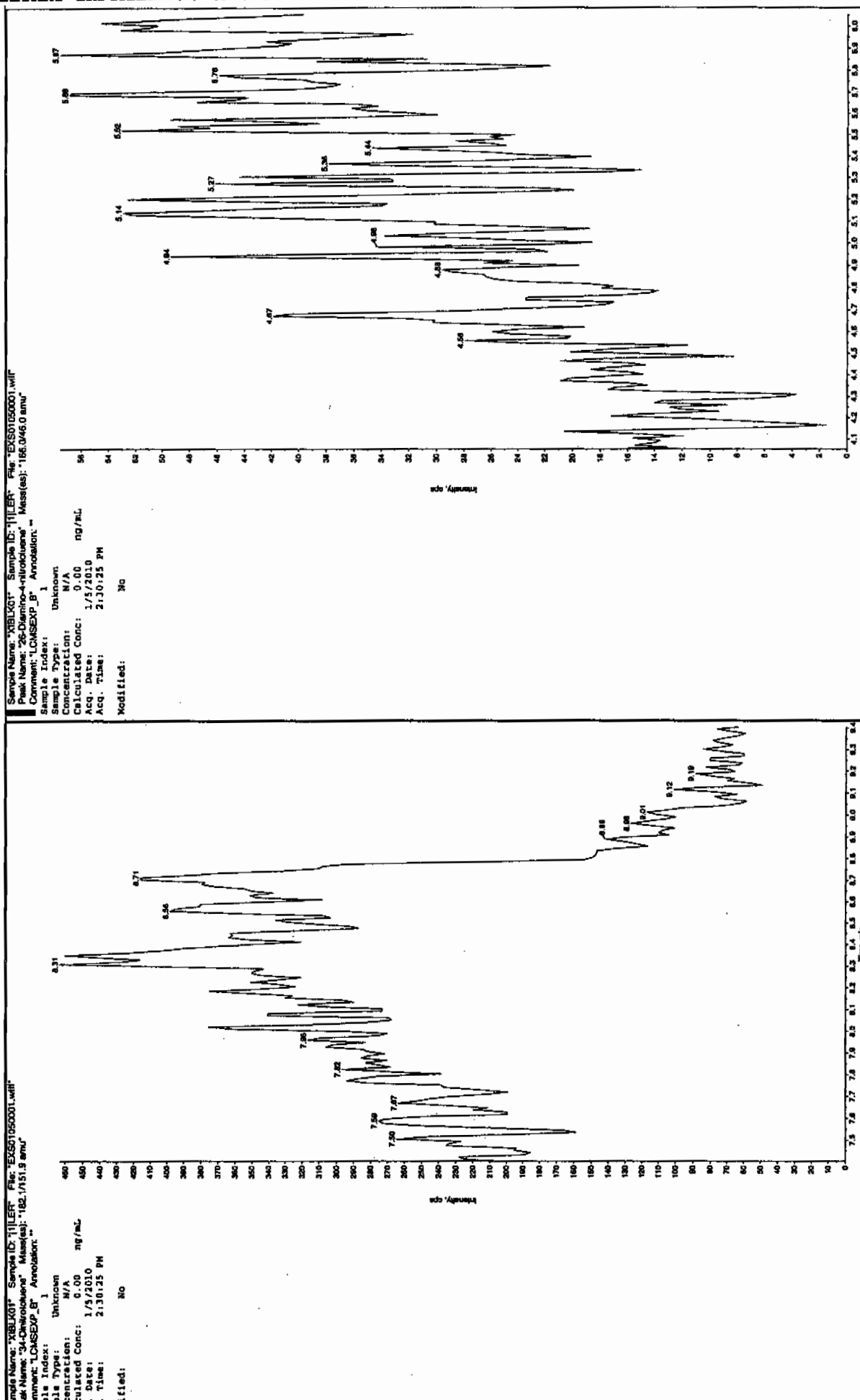


Sample Name: "XBL001" Sample ID: "111LEP" File: "EX301050001.wiff"
Peak Name: "TATB" Mass(es): 1102.046.0 amu
Concentration: "LCMSDEP_B" Acquisition: "1102.046.0 amu"

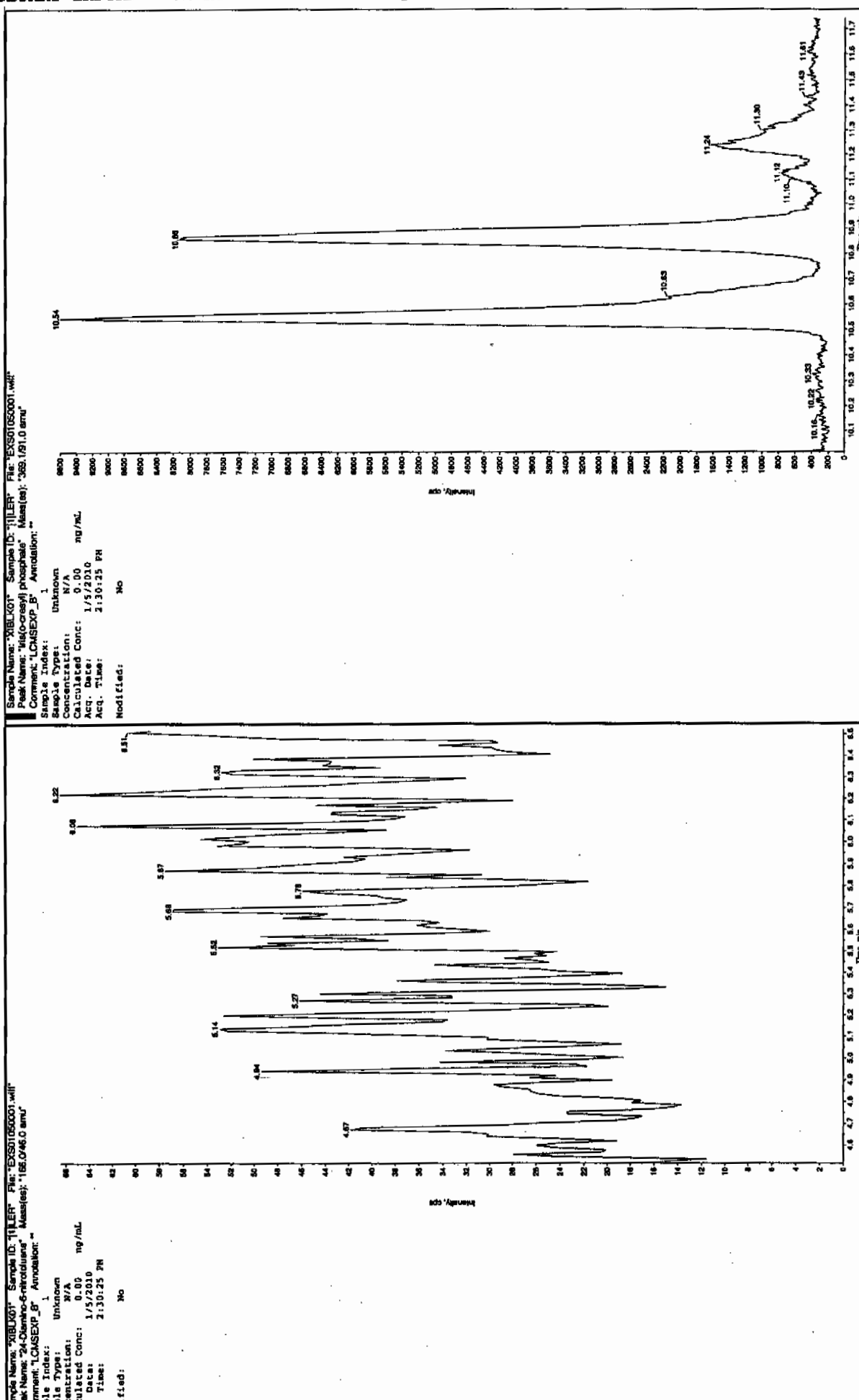
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/5/2010
Acq. Time: 2:30:25 PM
Modified: No



01/16/11



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



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

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-JAN-10 14:46

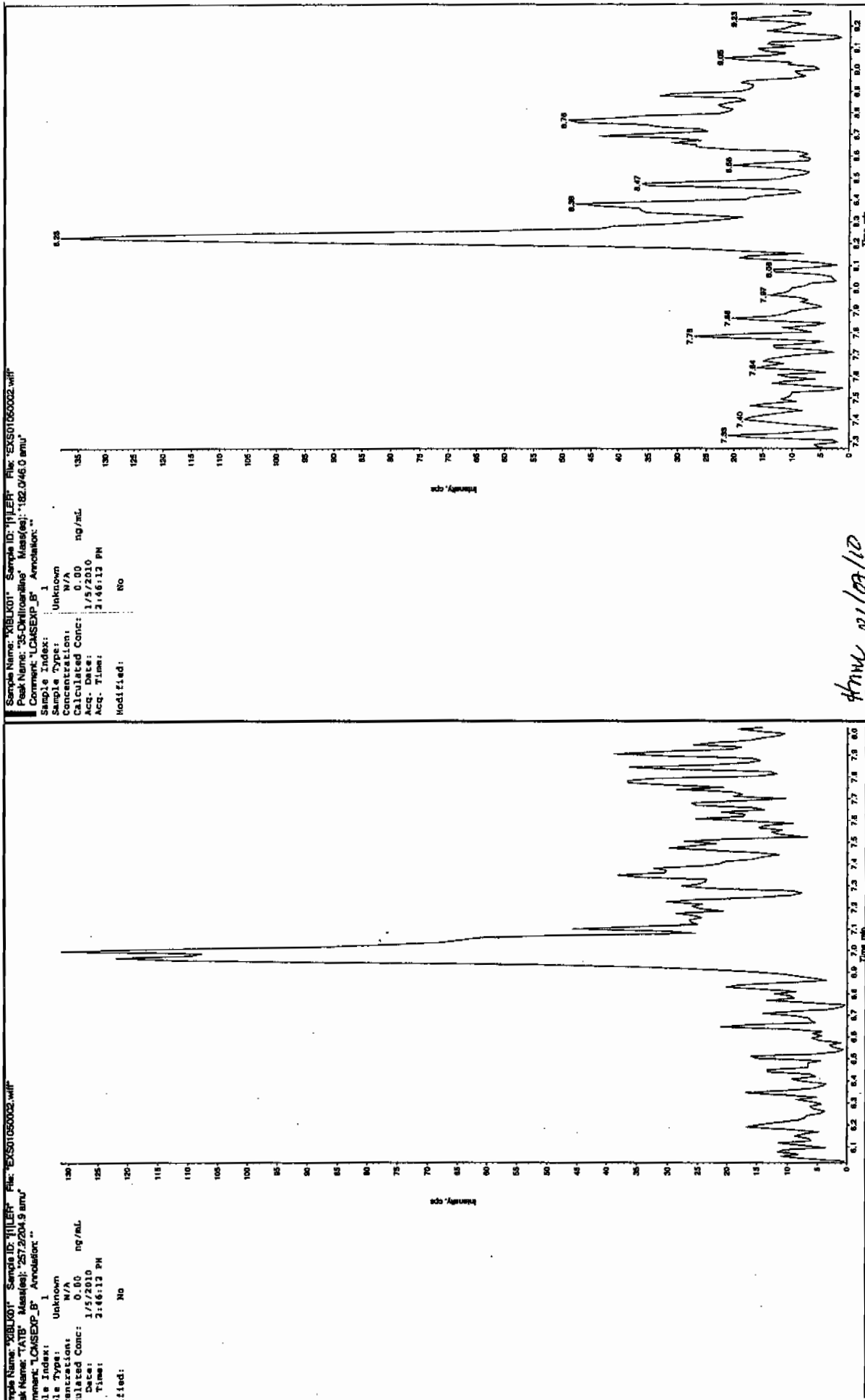
GEL Data File: EXS01050002.wiff

Instrument ID: LCMSMS

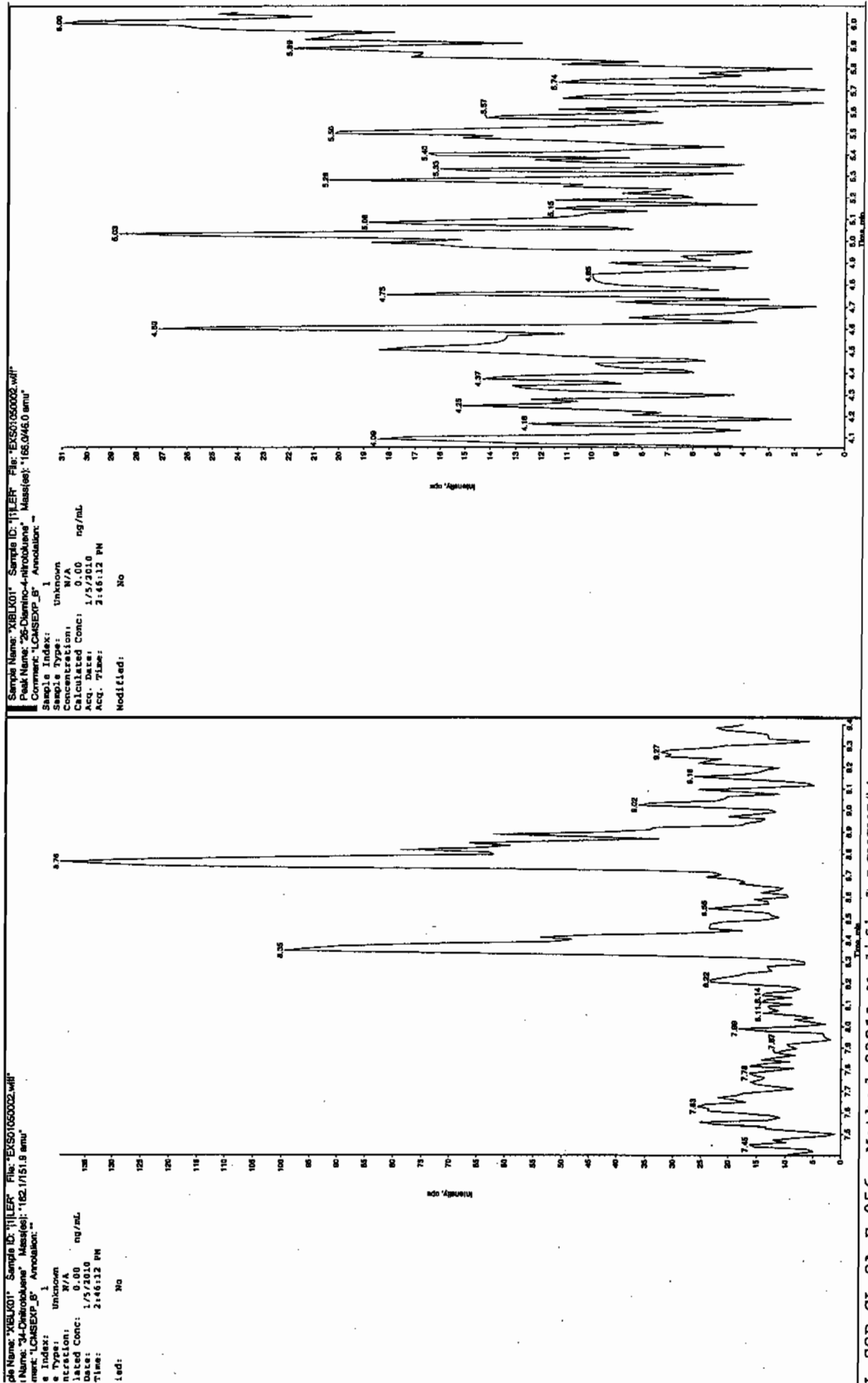
Column: Phenomenex Ultracarb 5u ODS(20)

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

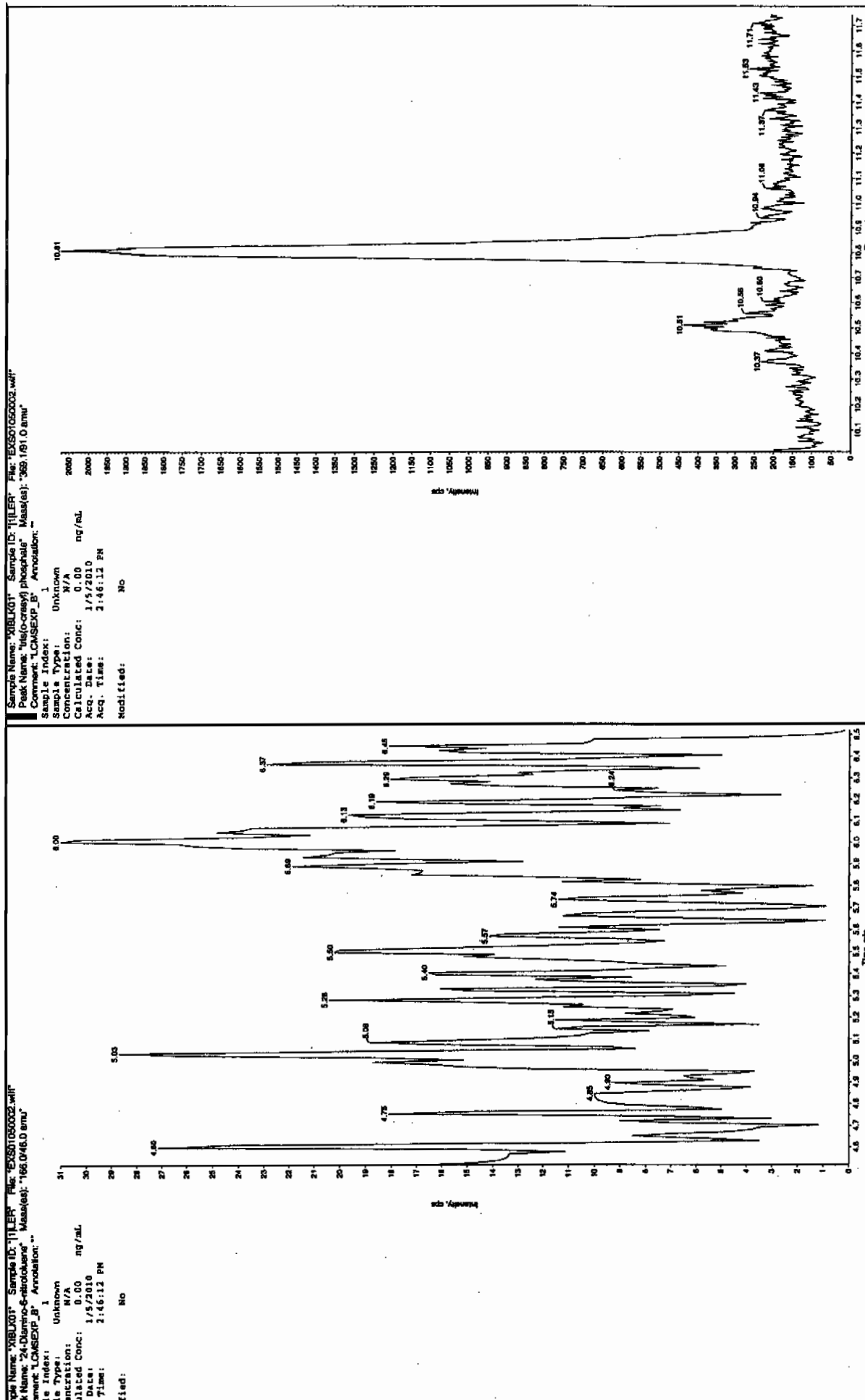
802-011211



802-011211



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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 05-JAN-10 22:53

GEL Data File: EXP0105009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	510.492
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	501.33
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: Untitled, Time: Wed Jan 06 12:43:40 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105009a

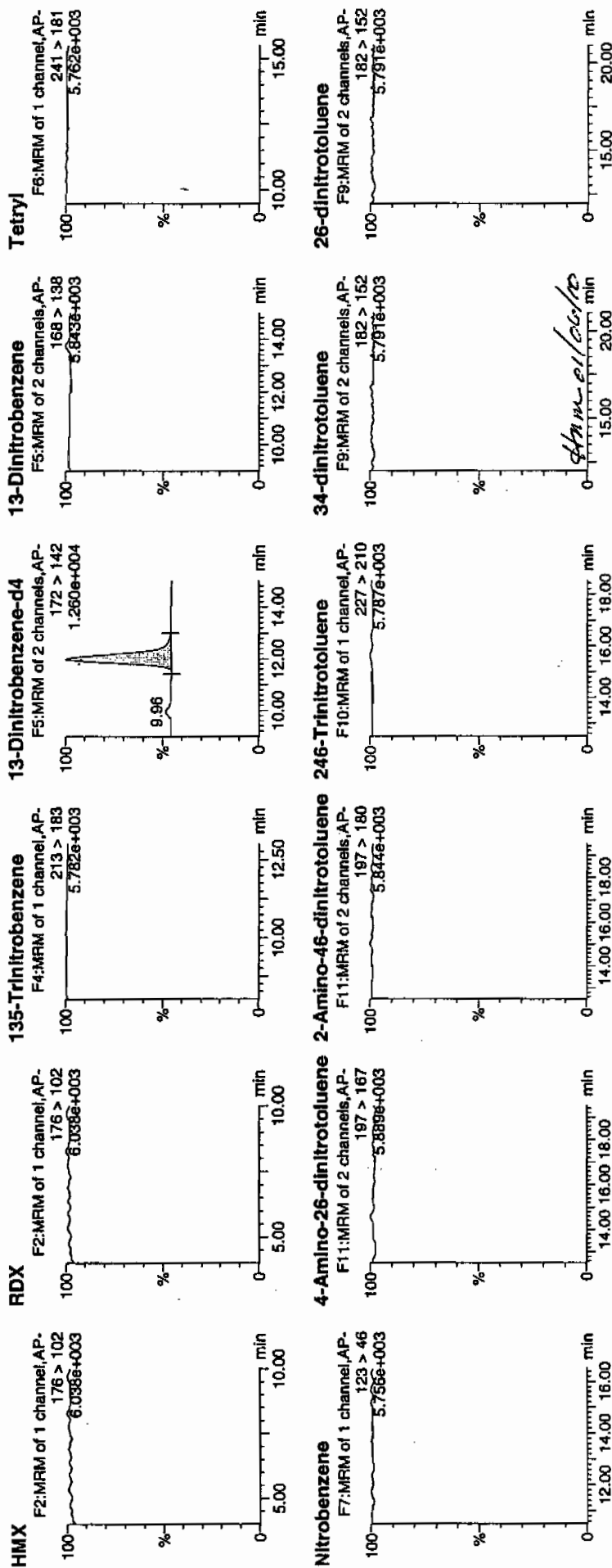
Date: 05-Jan-2010

Time: 22:53:09

ID: XIBLK02

Vial: 1:1,A

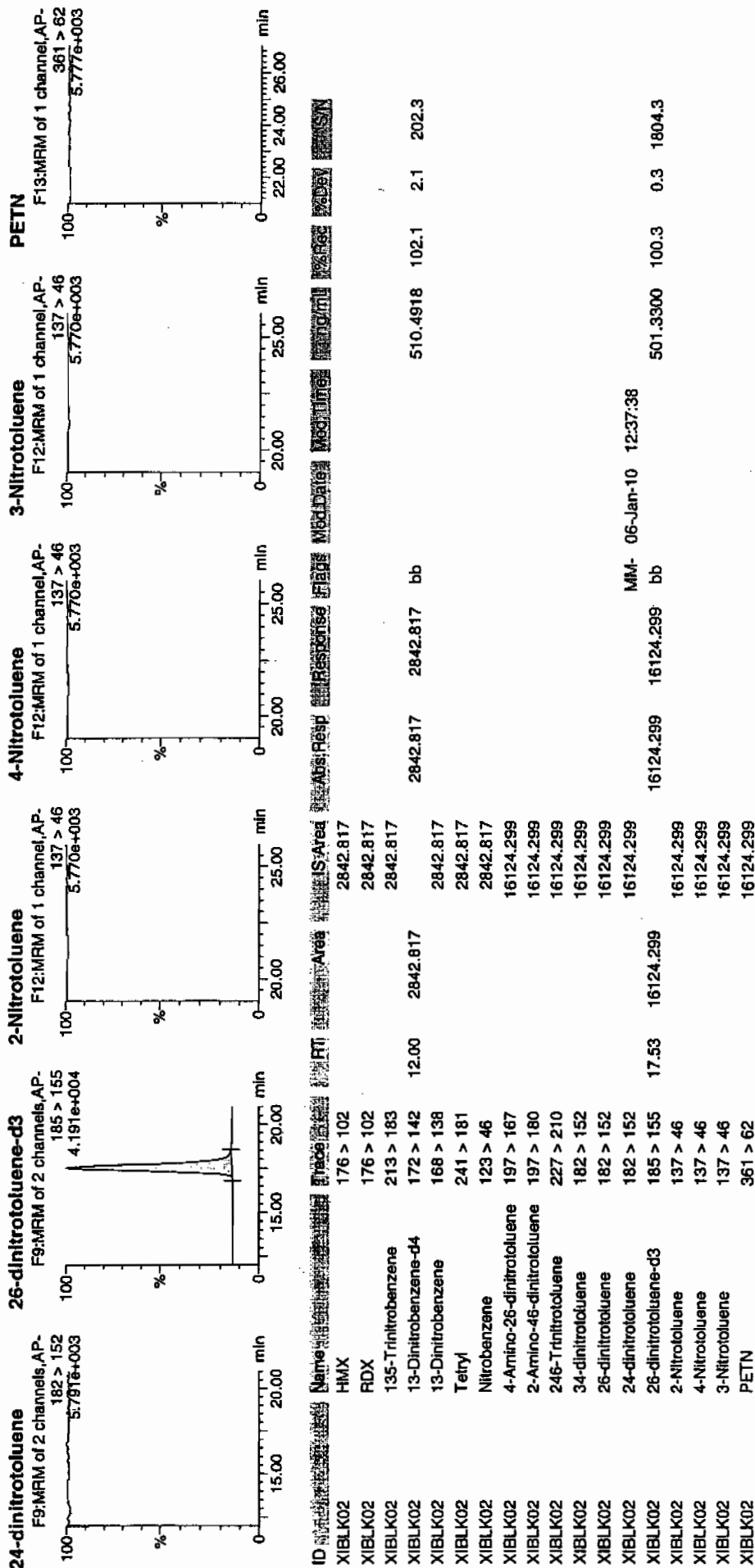
11/16/10



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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 05-JAN-10 23:52

GEL Data File: EXP0105011a

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	461.766
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	477.85
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

Printed: Wed Jan 06 12:44:40 2010, Page 21 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0105011a

Date: 05-Jan-2010

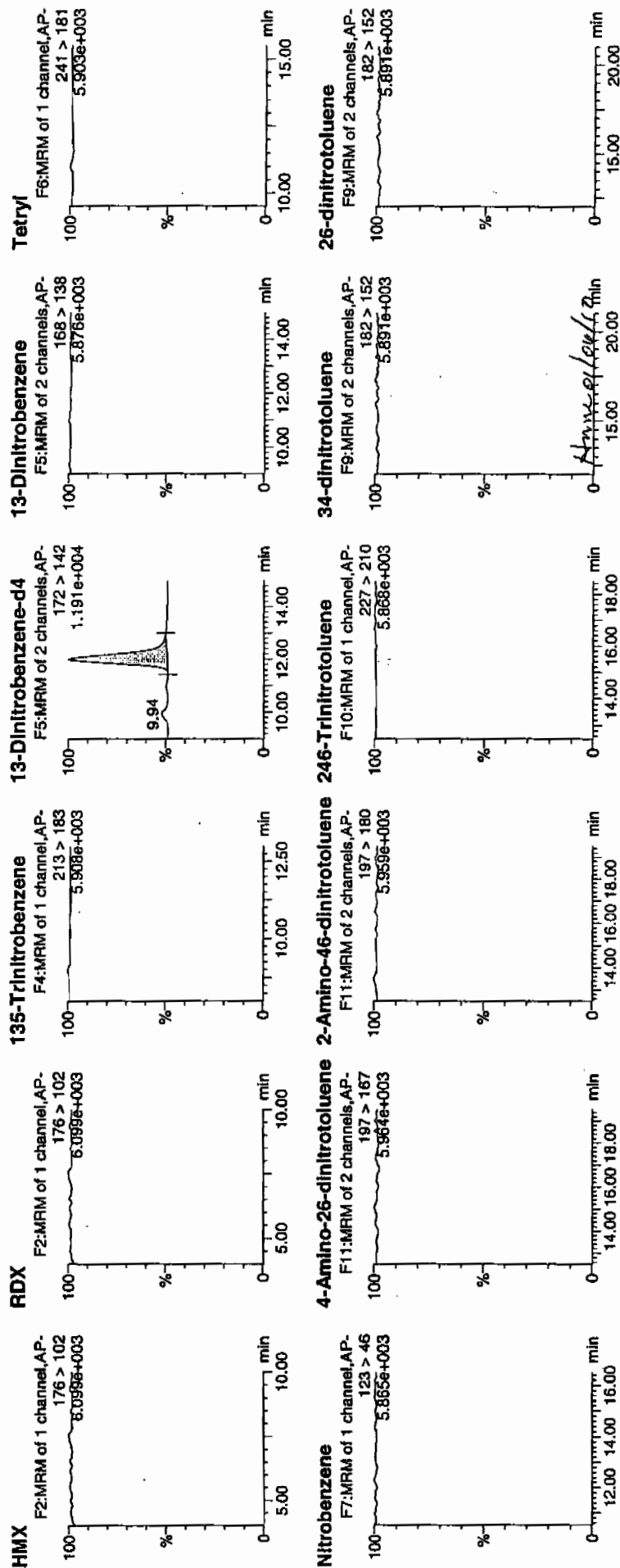
Time: 23:52:06

ID: XIBLK03

Vial: 1:1,A

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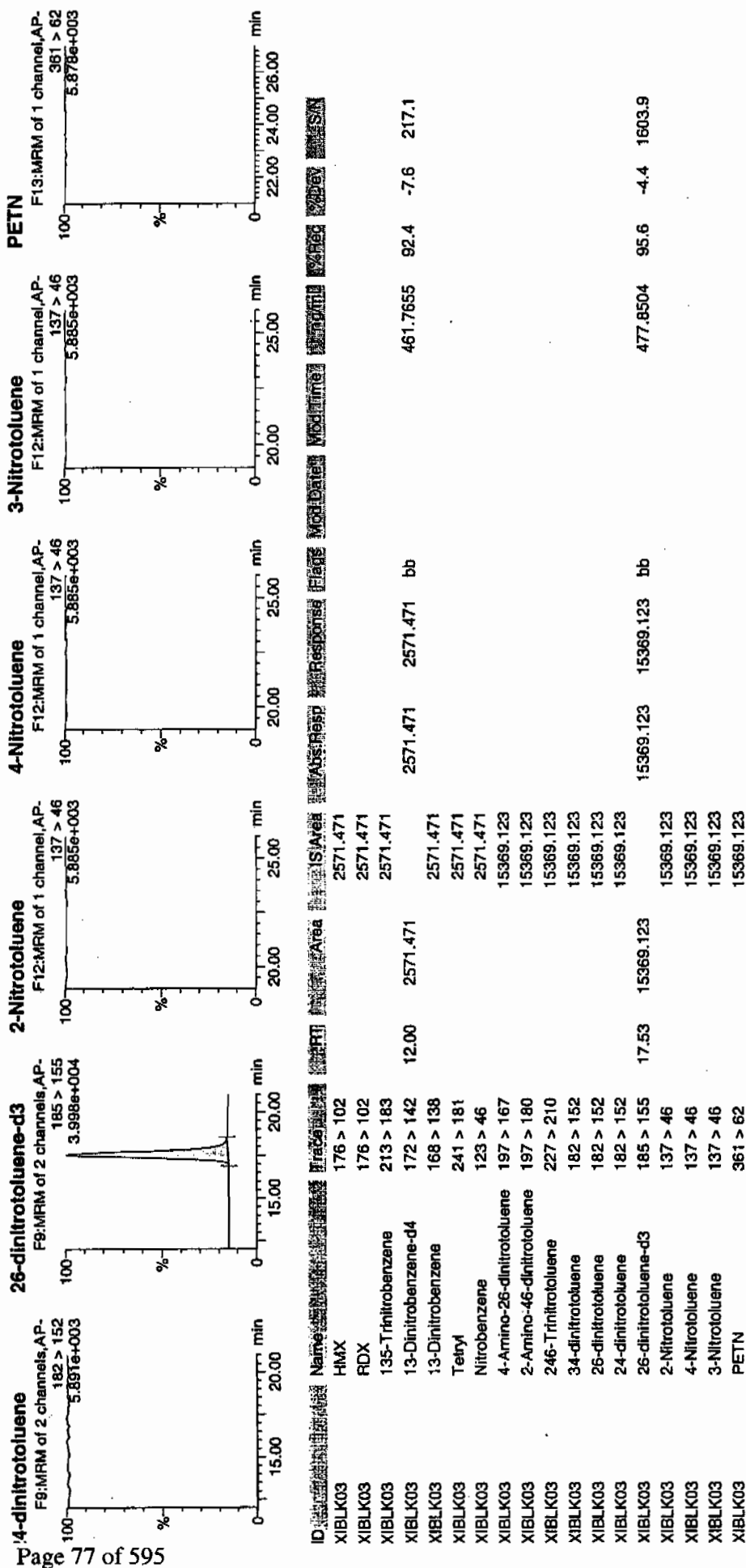
100
100



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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 06-JAN-10 04:46

GEL Data File: EXP0105021a

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	615.622
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	703.356
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

Printed: Wed Jan 06 12:44:40 2010, Page 41 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105021a

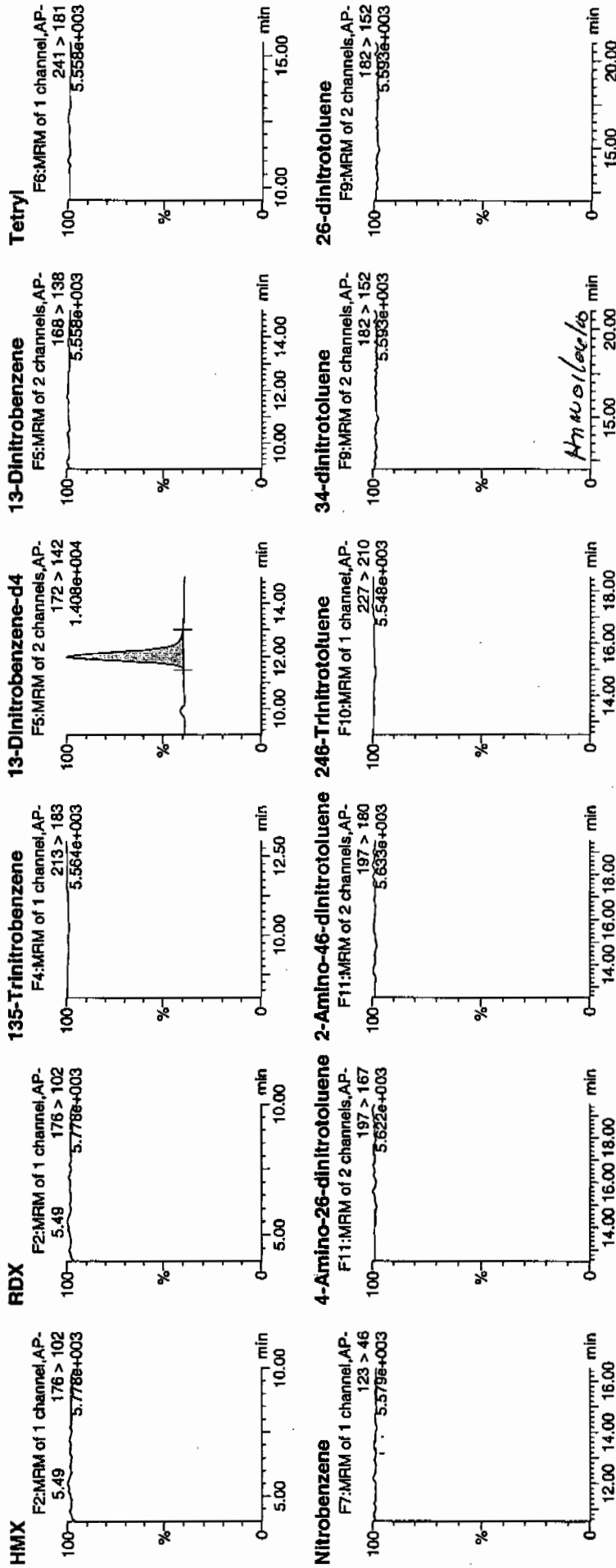
Date: 06-Jan-2010

Time: 04:46:55

ID: XIBLK04

Vial: 1:1,A

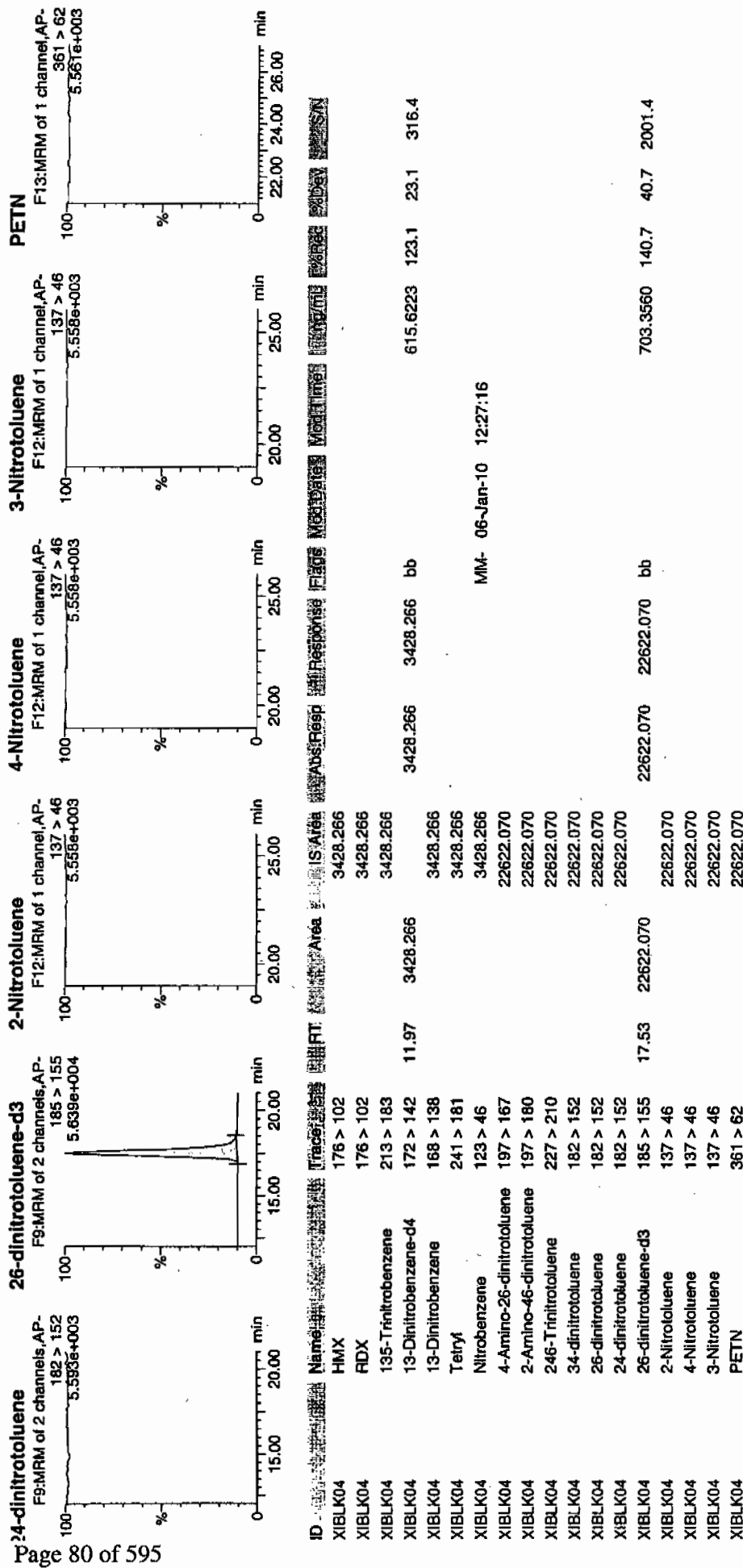
Page 79 of 595



Printed: Wed Jan 06 12:44:40 2010, Page 42 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 06-JAN-10 11:10

GEL Data File: EXP0105034a

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	527.354
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	541.043
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

Printed: Wed Jan 06 12:44:40 2010, Page 67 of 71

Identify Sample Report
EL Laboratories, LLC / Analyst: Michael A. Penny

atlas: Untitled, Time: Wed Jan 06 12:43:40 2010

Path: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105034a

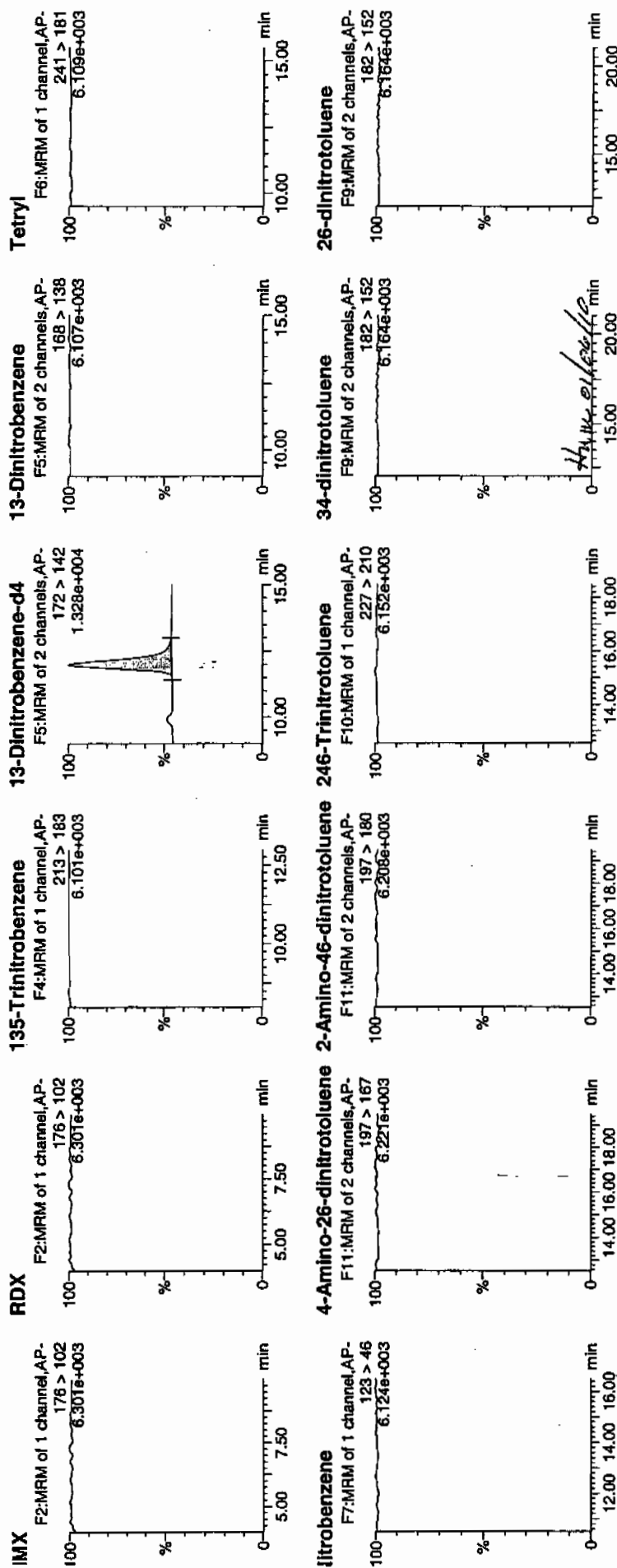
Date: 06-Jan-2010

Time: 11:10:44

Sample: XIBLK05

Ratio: 1:1,A

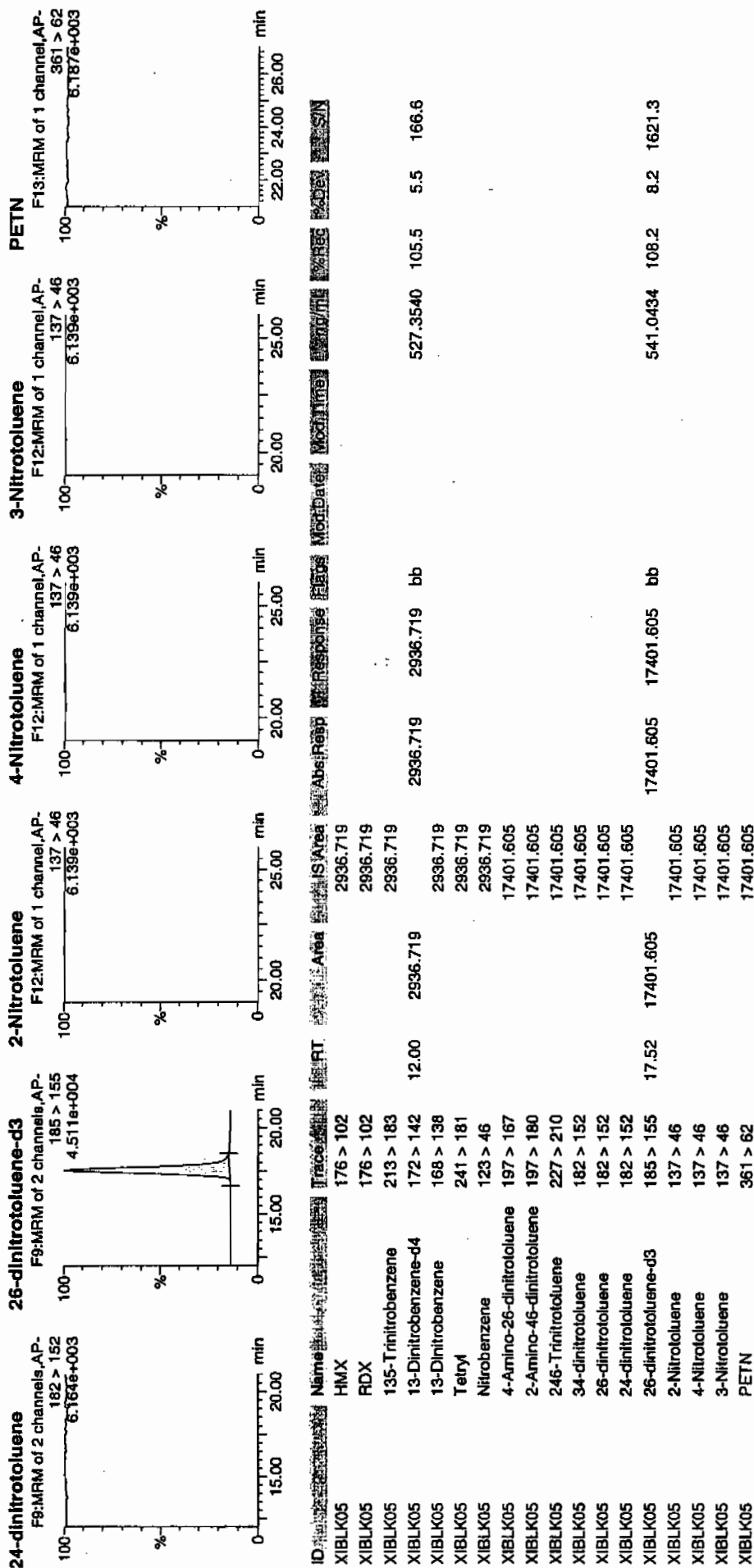
11/6/10



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

Printed: Wed Jan 06 12:44:40 2010, Page 68 of 71

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 06-JAN-10 17:04

GEL Data File: EXP0105046a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	467.761
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	561.449

Printed: Thu Jan 07 09:13:50 2010, Page 21 of 77

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

Dataset: C:\MASSLYNX\New_Exp\PRO1010510expA1.qtd, Time: Thu Jan 07 09:13:14 2010

Name: C:\MASSLYNX\NEW_EXP\PRO1Data\EXP0105046a

Date: 06-Jan-2010

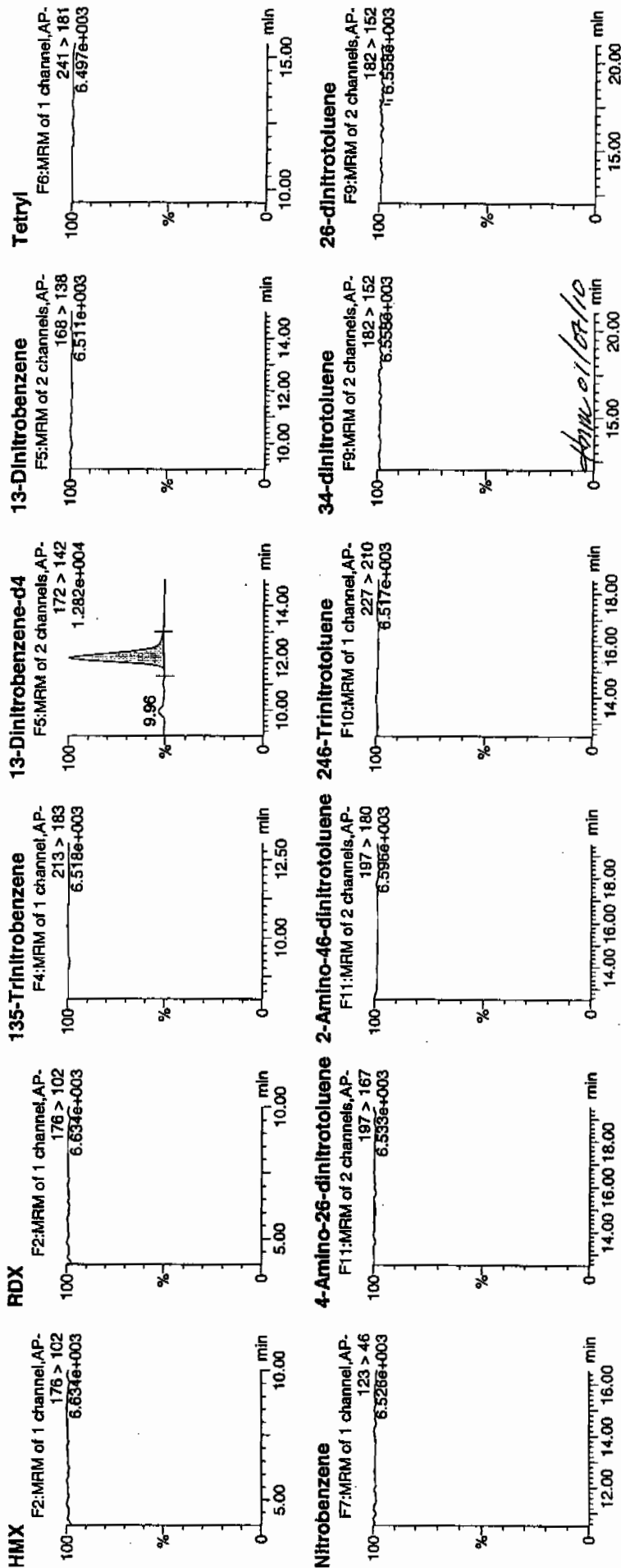
Time: 17:04:34

ID: XIBLK06

Vial: 1:1,A

1/4/10

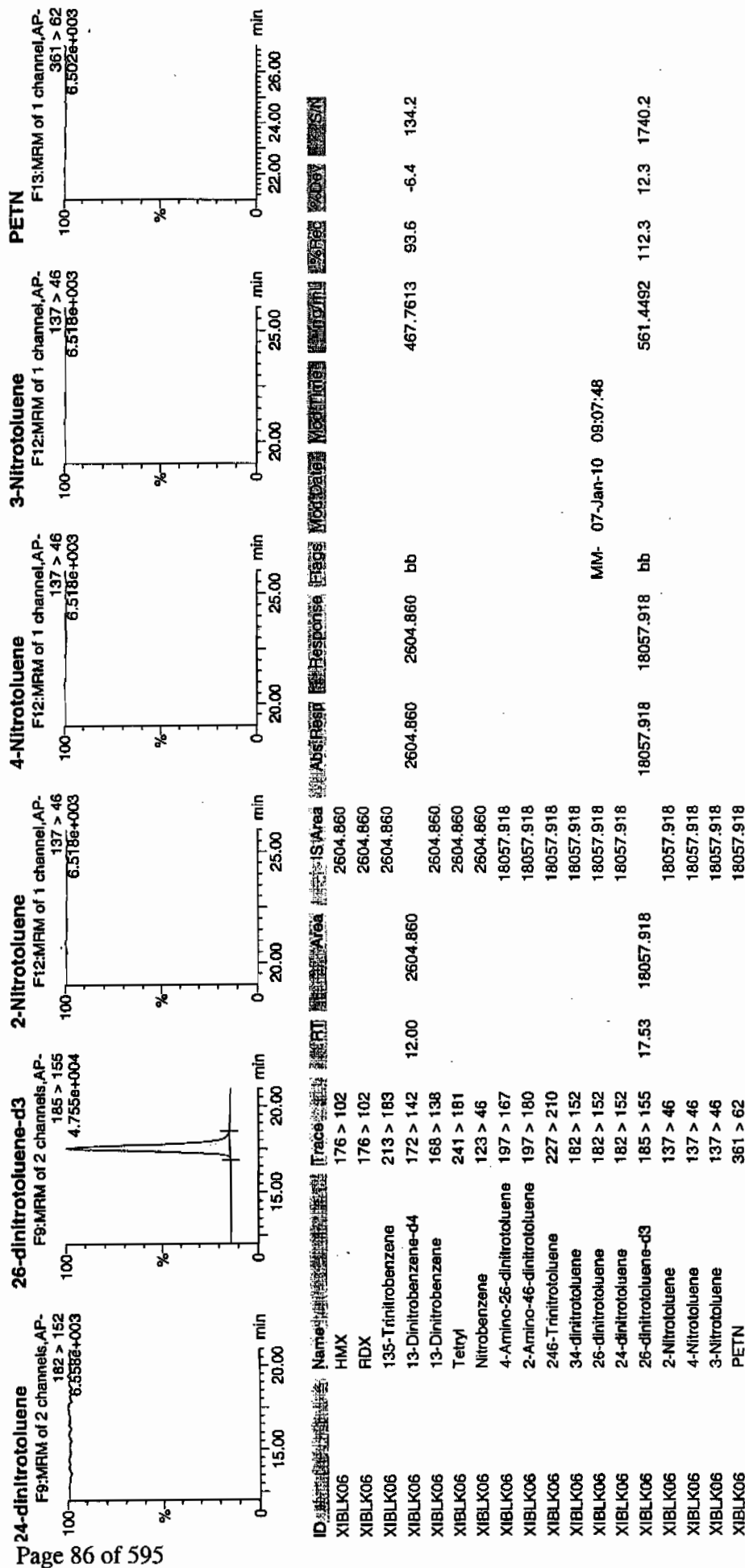
Page 85 of 595



Printed: Thu Jan 07 09:13:50 2010, Page 22 of 77

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

Dataset: C:\MASSLYN\New_Exp\PRO010510expA1.qld, Time: Thu Jan 07 09:13:14 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 06-JAN-10 23:27

GEL Data File: EXP0105059a

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	558.322
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	517.273
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

Printed: Thu Jan 07 09:13:50 2010, Page 47 of 77

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

Dataset: C:\MASSLYNX\New_Exp.PRO\10510expA1.qld, Time: Thu Jan 07 09:13:14 2010

File name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105059a

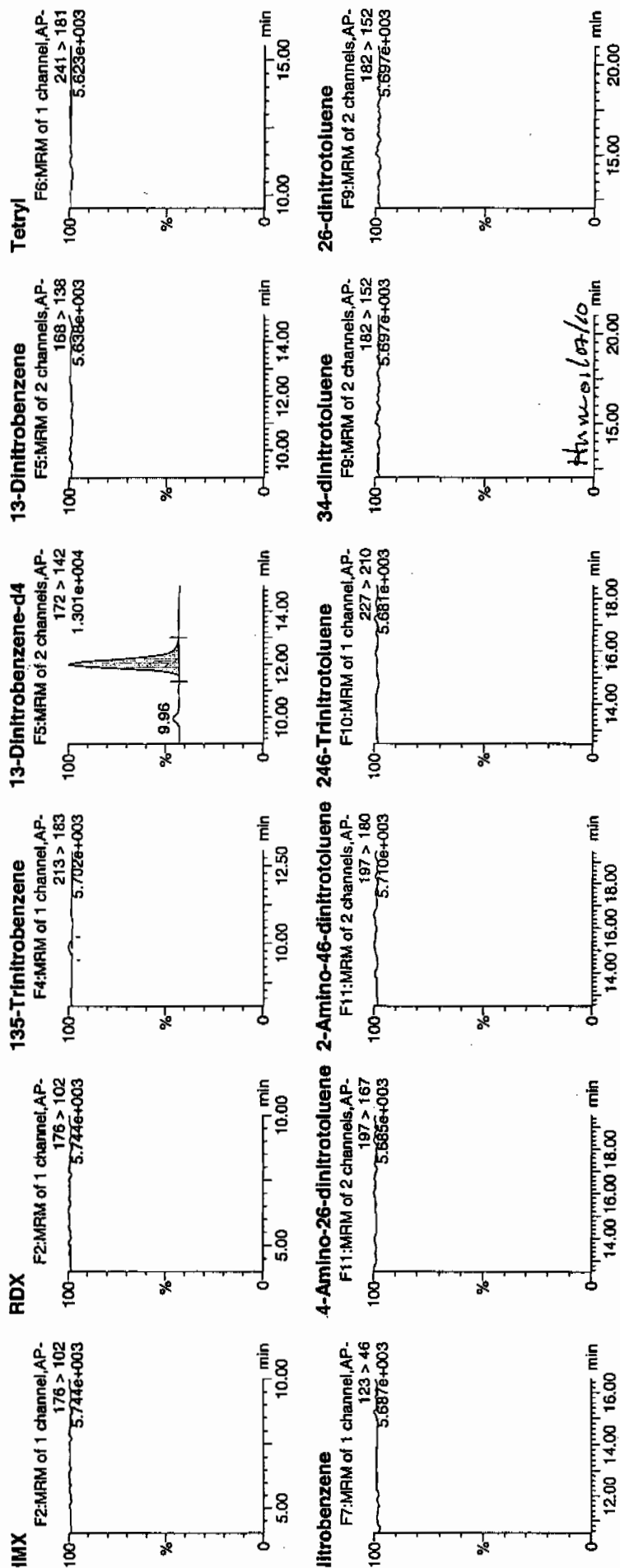
Sample name: 06-Jan-2010

Time: 23:27:53

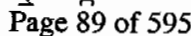
File: XIBLK07

File: 1:1,A

Page 55



taset: C:\MASSLYN\New_Exp.PRO\010510expA1.qld, Time: Thu Jan 07 09:13:14 2010

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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 07-JAN-10 05:51

GEL Data File: EXP0105072a

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	516.406
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	576.16
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

Printed: Thu Jan 07 09:13:50 2010, Page 73 of 77

Identify Sample Report
EL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO010510expA1.qld, Time: Thu Jan 07 09:13:14 2010

Time: C:\MASSLYNX\NEW_EXP\PROData\EXP0105072a

Date: 07-Jan-2010

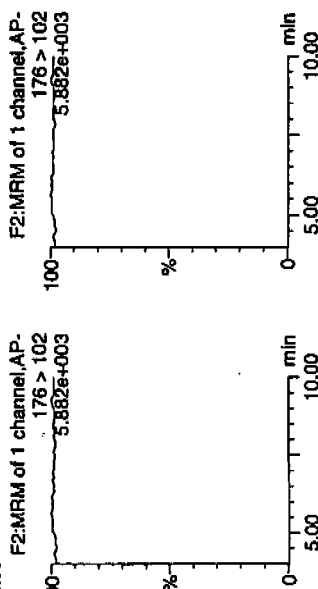
Time: 05:51:42

Operator: XIBLK08

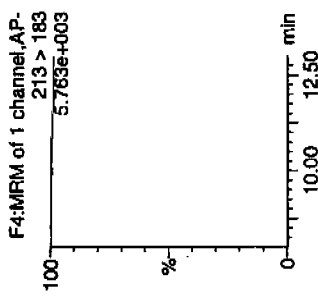
Sample: 1:1,A

4X

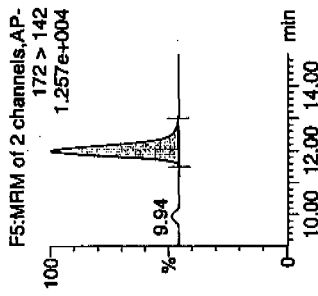
RDX



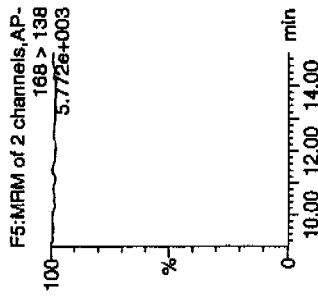
135-Trinitrobenzene



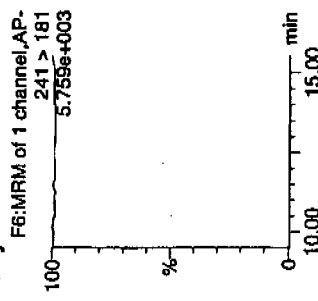
13-Dinitrobenzene-d4



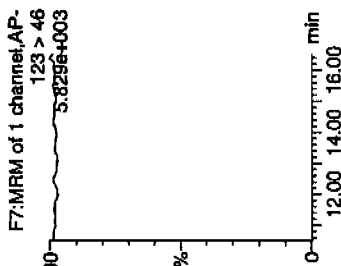
13-Dinitrobenzene



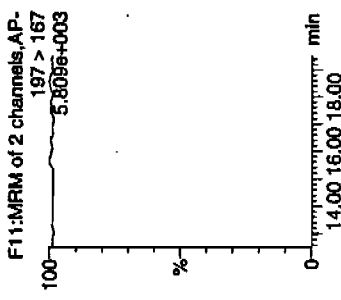
Tetryl



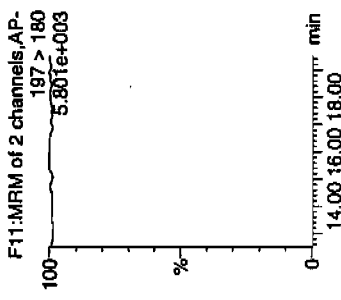
nitrobenzene



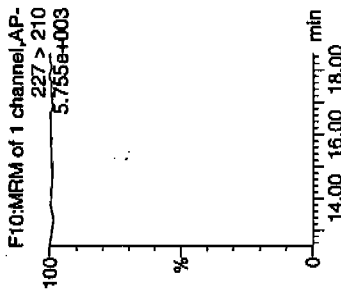
4-Amino-26-dinitrotoluene



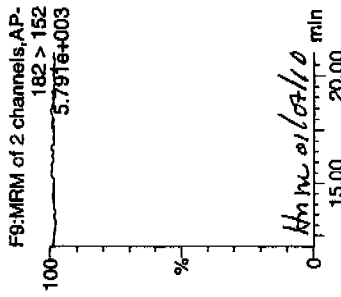
2-Amino-46-dinitrotoluene



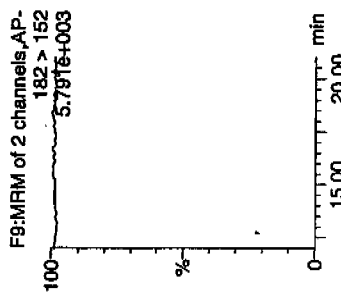
246-Trinitrotoluene



34-dinitrotoluene



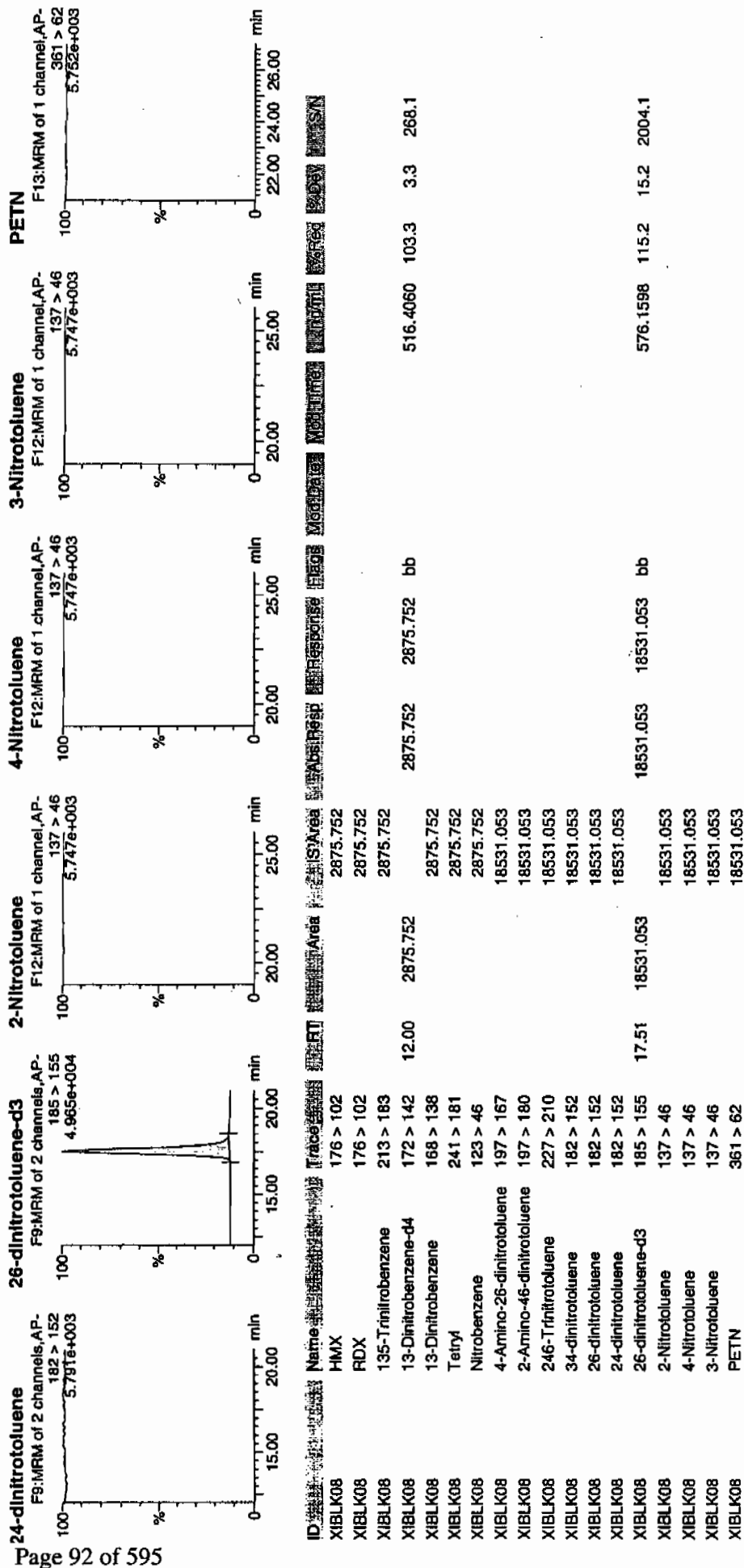
26-dinitrotoluene



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

Dataset: C:\MASSLYNX\New_Exp\PROV010510expA1.qld, Time: Thu Jan 07 09:13:14 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 07-JAN-10 12:15

GEL Data File: EXP0105085a

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	516.043
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	535
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

Printed: Fri Jan 08 08:09:43 2010, Page 23 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105085a

Date: 07-Jan-2010

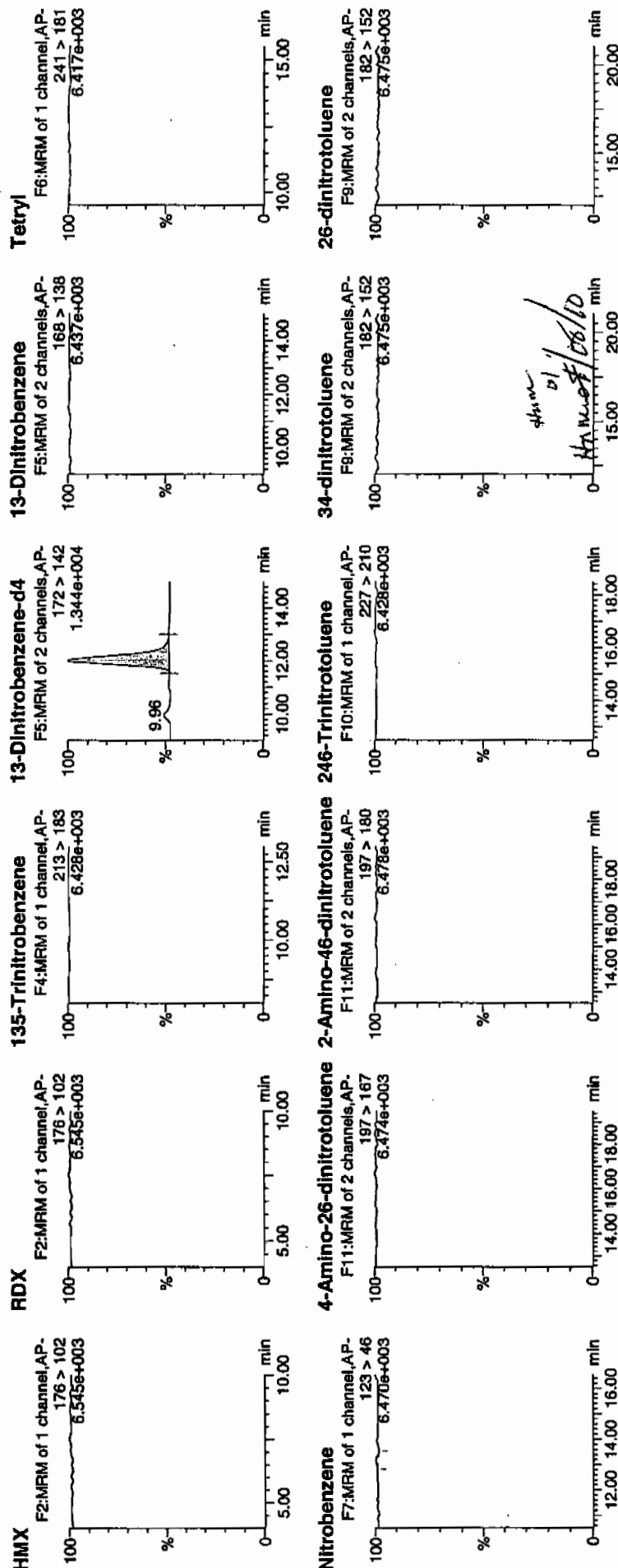
Time: 12:15:51

ID: XIBLK09

Vial: 1:1,A

1/8/10

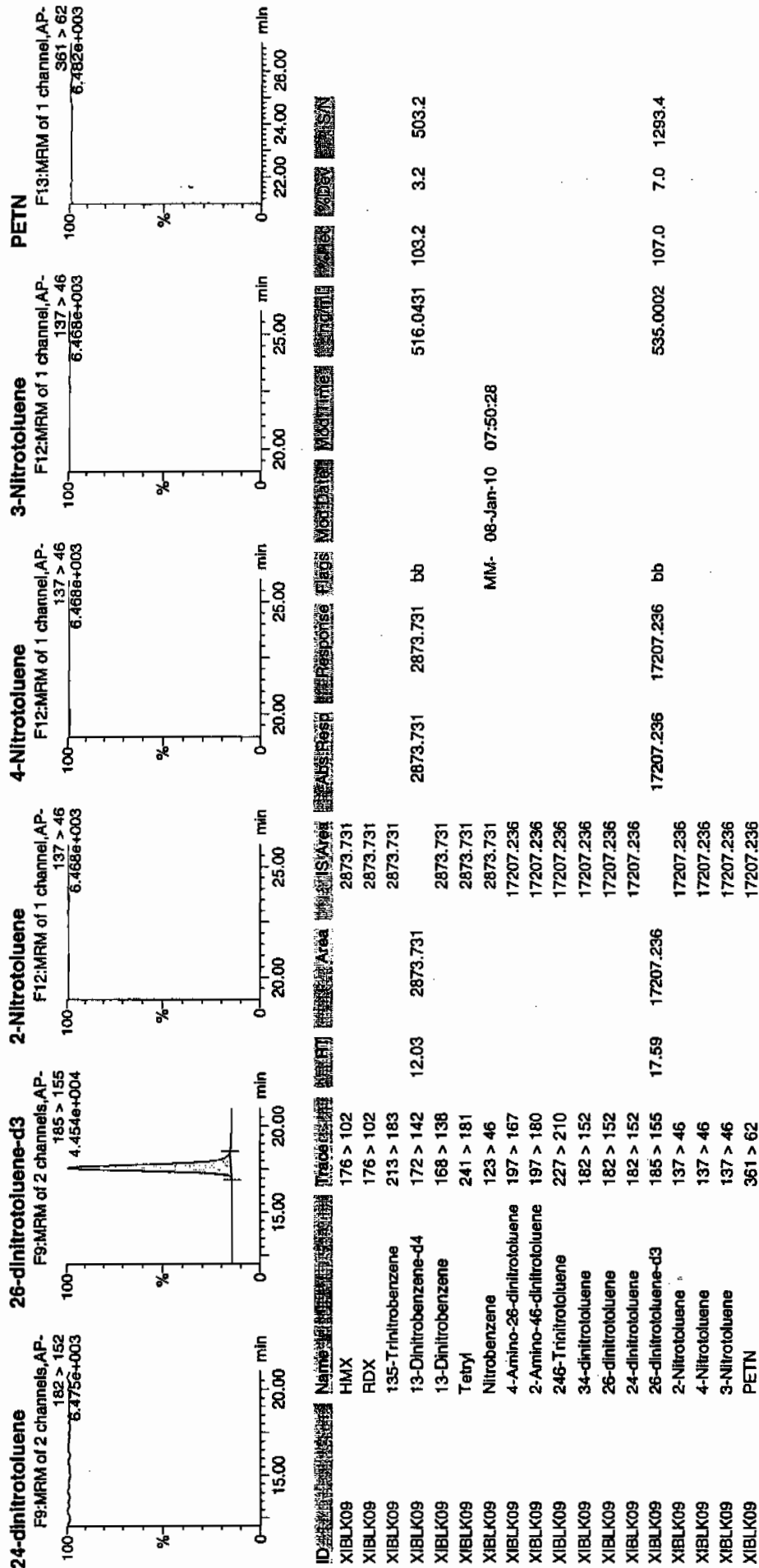
Page 94 of 595



Printed: Fri Jan 08 08:09:43 2010, Page 24 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PRO010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 07-JAN-10 16:59

GEL Data File: EXP0105094a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	547.563
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	529.841
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105094a

Date: 07-Jan-2010

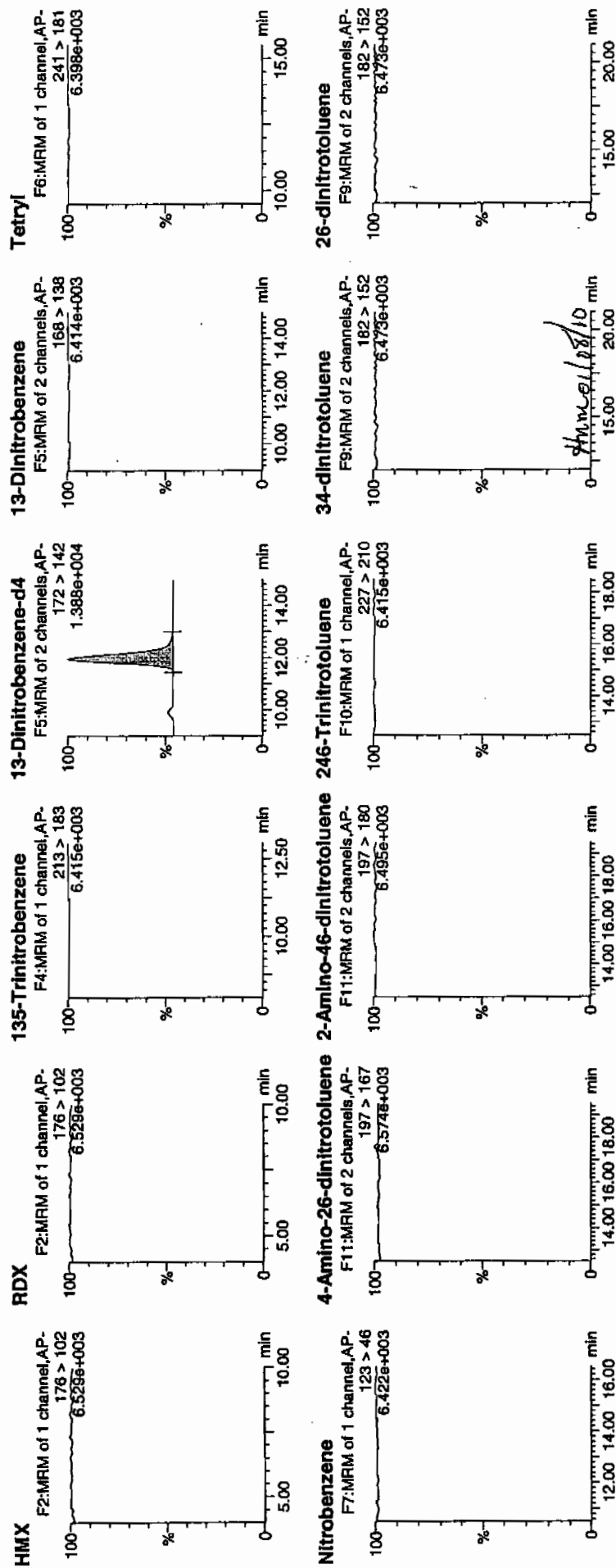
Time: 16:59:07

ID: XIBLK10

Vial: 1:1,A

1/8/10

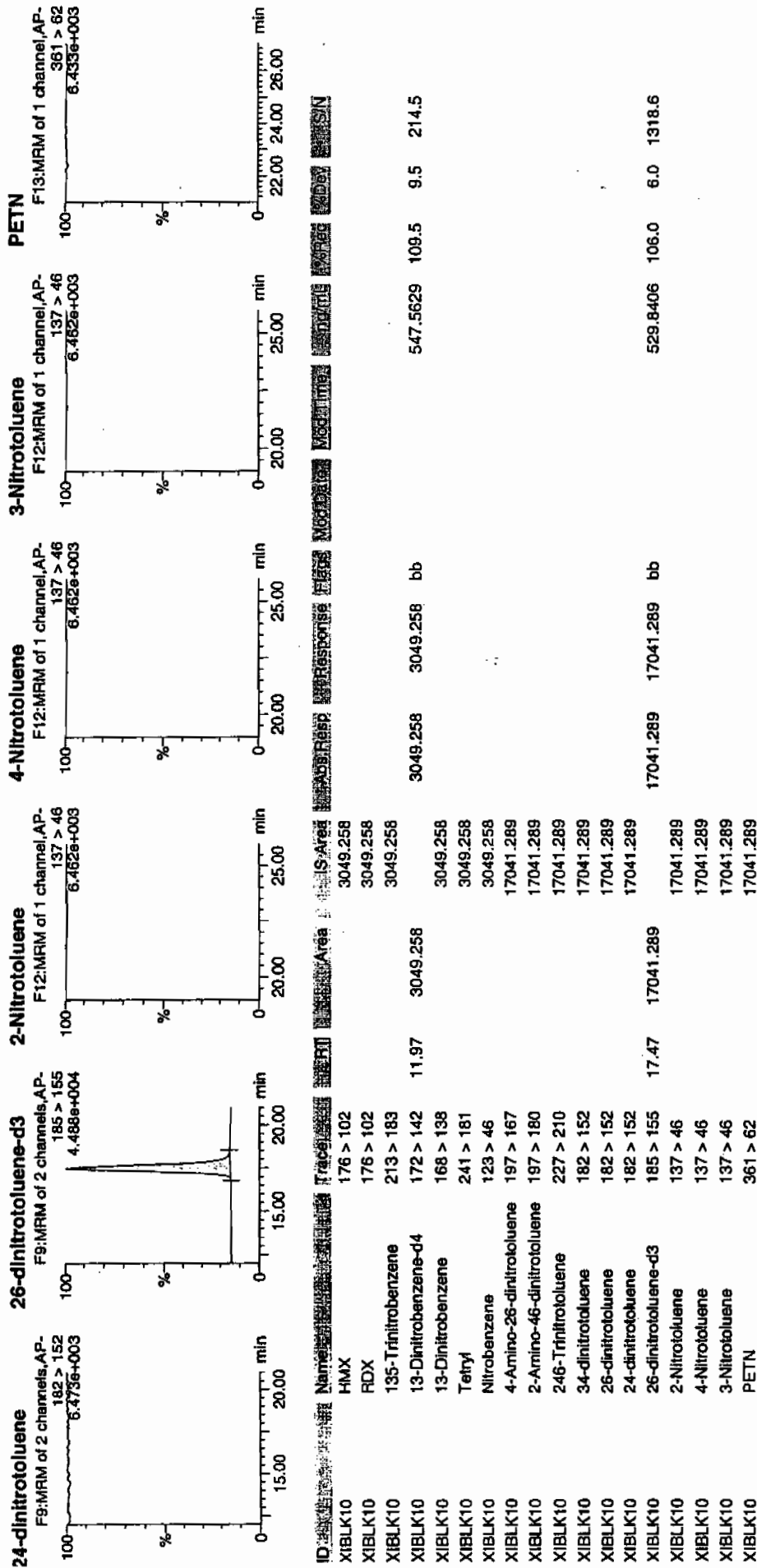
Page 97 of 595



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Quantify Sample Report
3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 07-JAN-10 23:22

GEL Data File: EXP0105107a

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	585.501
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	623.453
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New_Exp\PRO10510510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP\PRO105105107a

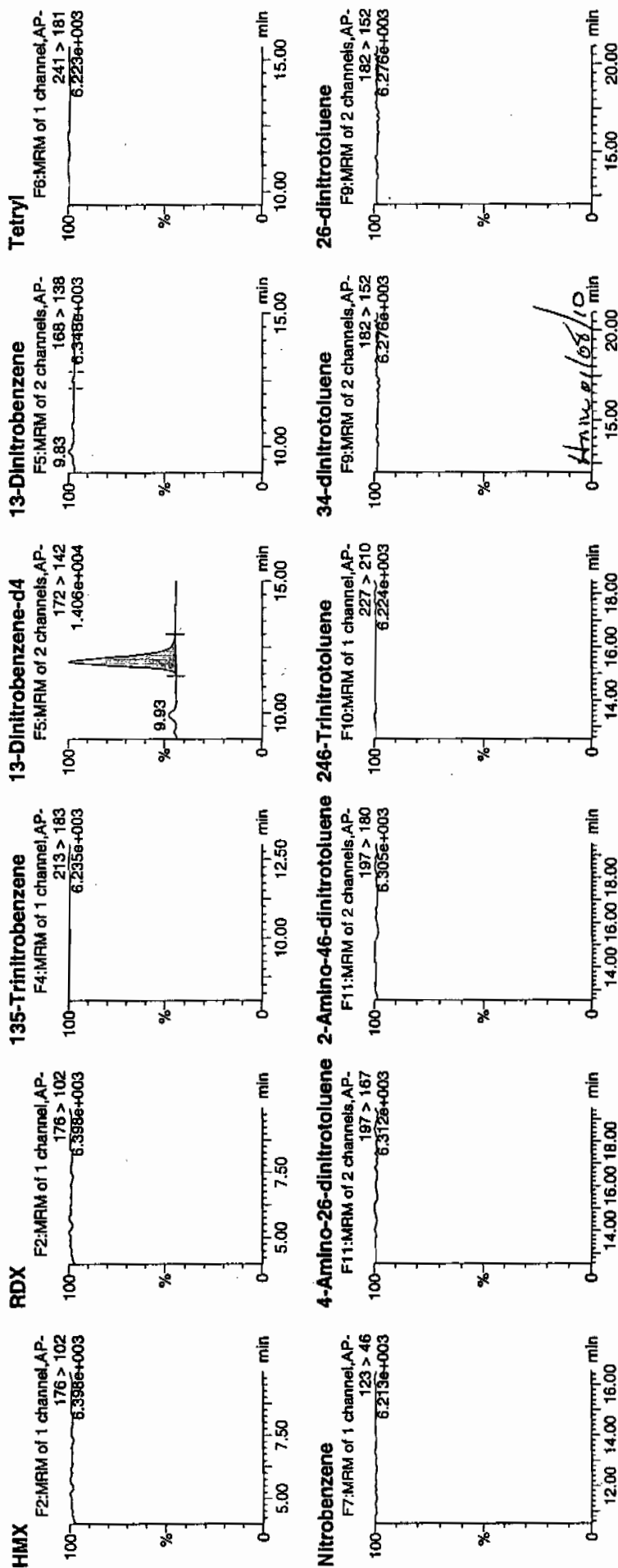
Date: 07-Jan-2010

Time: 23:22:44

ID: XIBLK11

Vial: 1:1,A

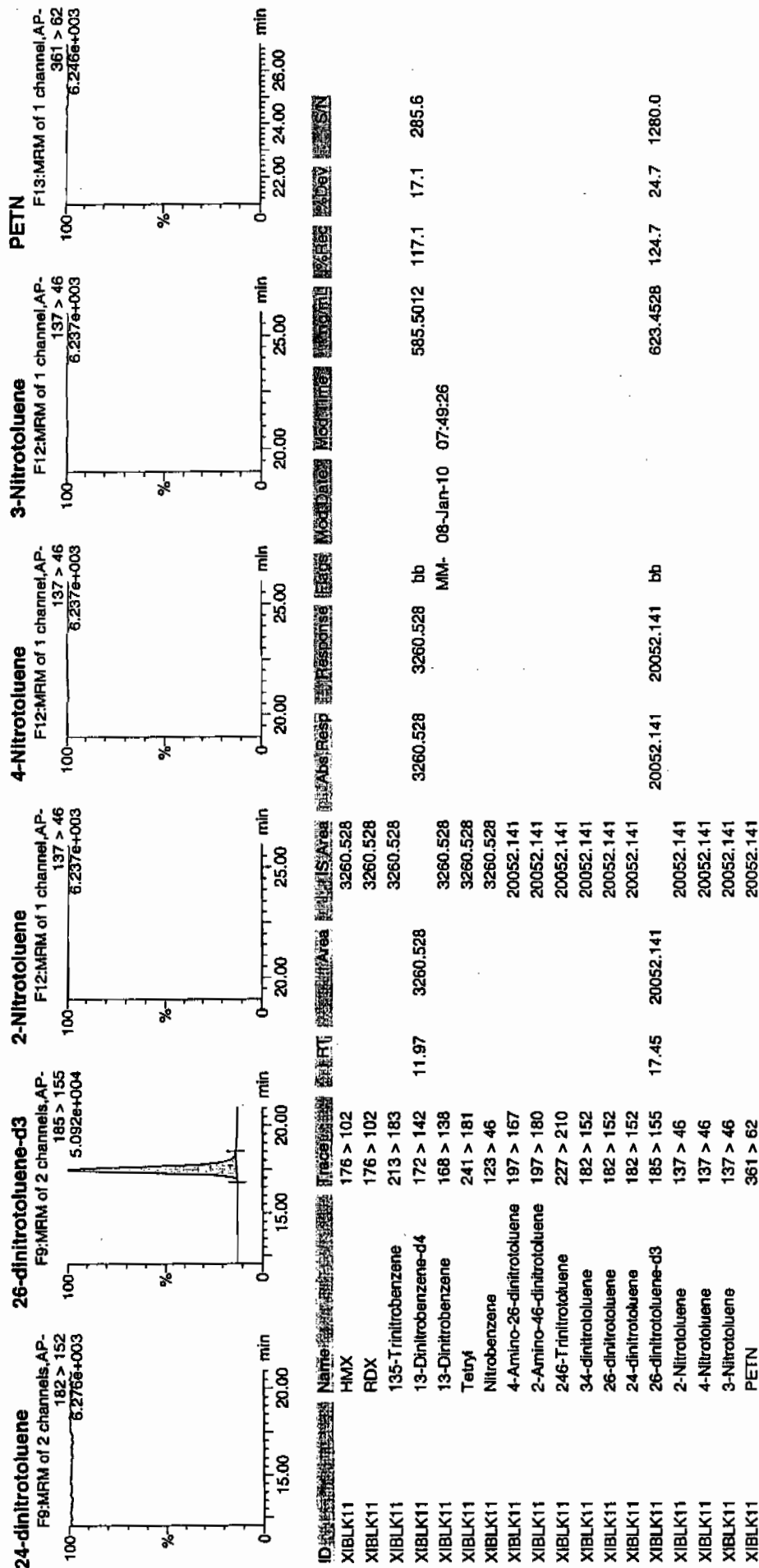
1/3/10



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

Dataset: C:\MASSLYN\New_Exp\PRO1010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 08-JAN-10 05:46

GEL Data File: EXP0105120a

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	624.885
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	594.837
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\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0105120a

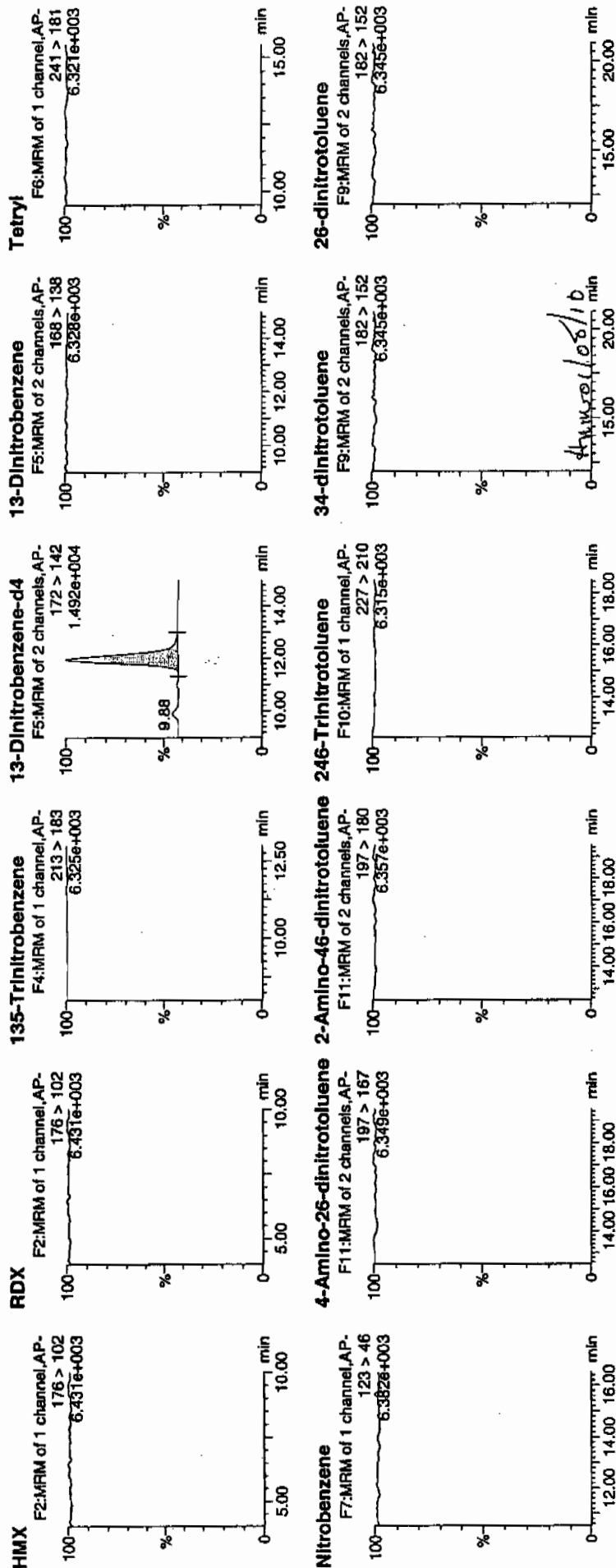
Date: 08-Jan-2010

Time: 05:46:05

ID: XIBLK12

Vial: 1:1,A

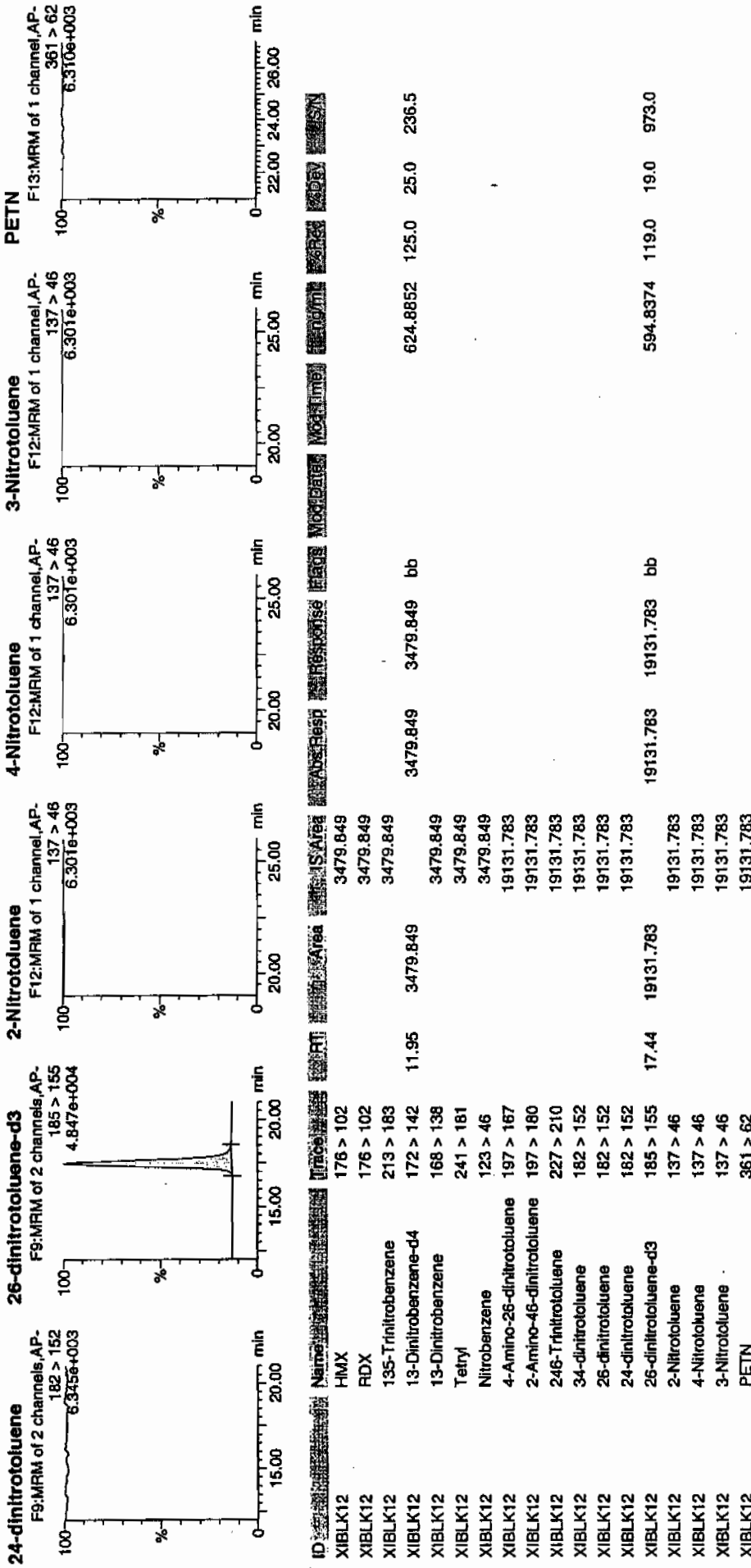
11/8/10
11/8/10



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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 08-JAN-10 21:11

GEL Data File: EXP0108009a

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	521.887
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	494.811
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108009a

Date: 08-Jan-2010

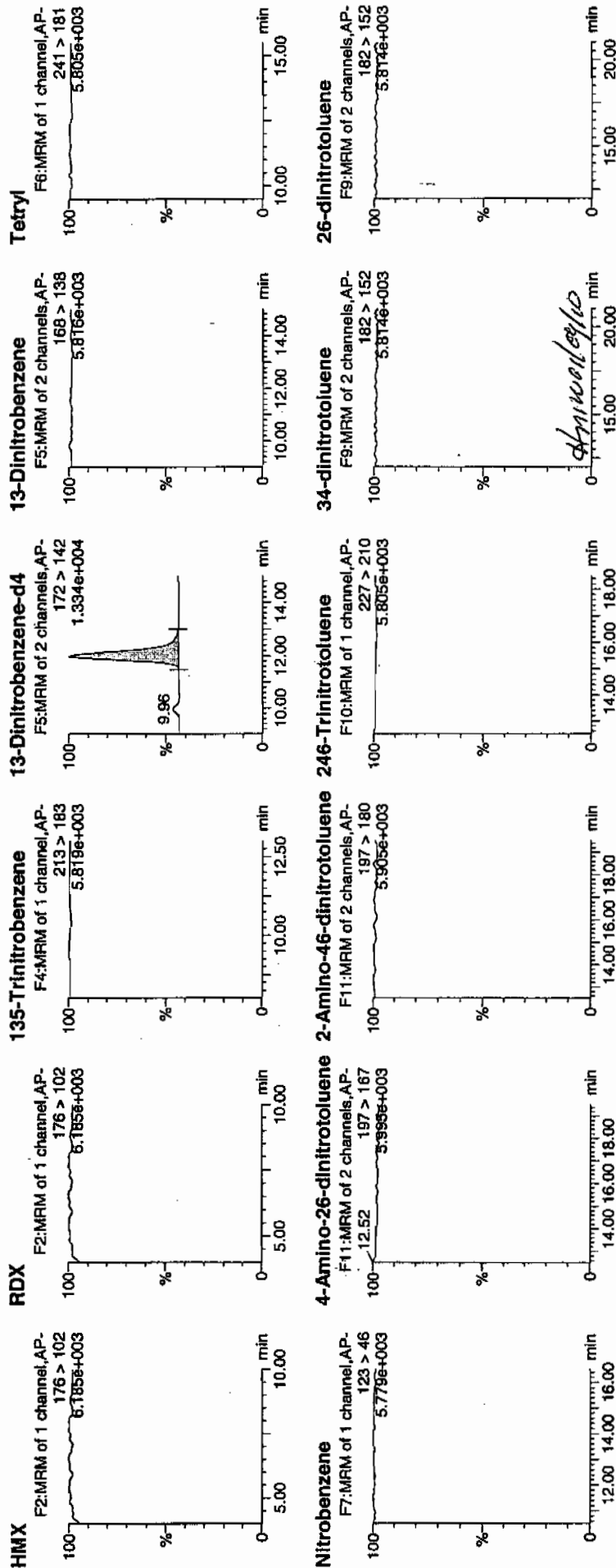
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ID: XIBLK02

Vial: 1:1,A

1/9/10

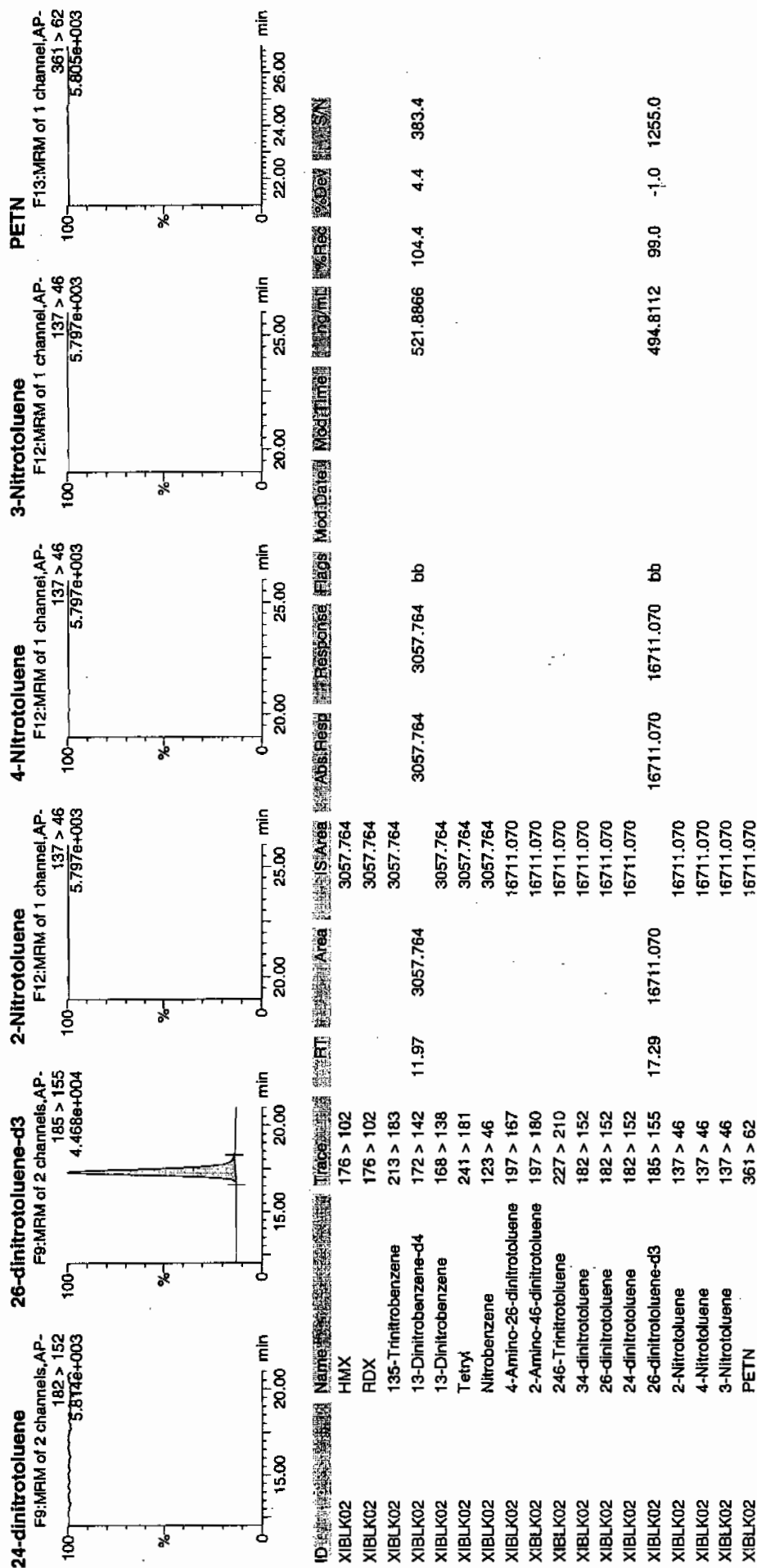
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Printed: Sat Jan 09 12:02:23 2010, Page 18 of 61

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

Dataset: C:\MASSLYNX\New_Exp_PROV010810expA.qld, Time: Sat Jan 09 12:01:37 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 08-JAN-10 22:10

GEL Data File: EXP0108011a

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	502.281
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	480.456

Printed: Sat Jan 09 12:02:23 2010, Page 21 of 61

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

Dataset: C:\MASSLYNX\New_Exp.PRO\10810expA.qld, Time: Sat Jan 09 12:01:37 2010

Sample: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108011a

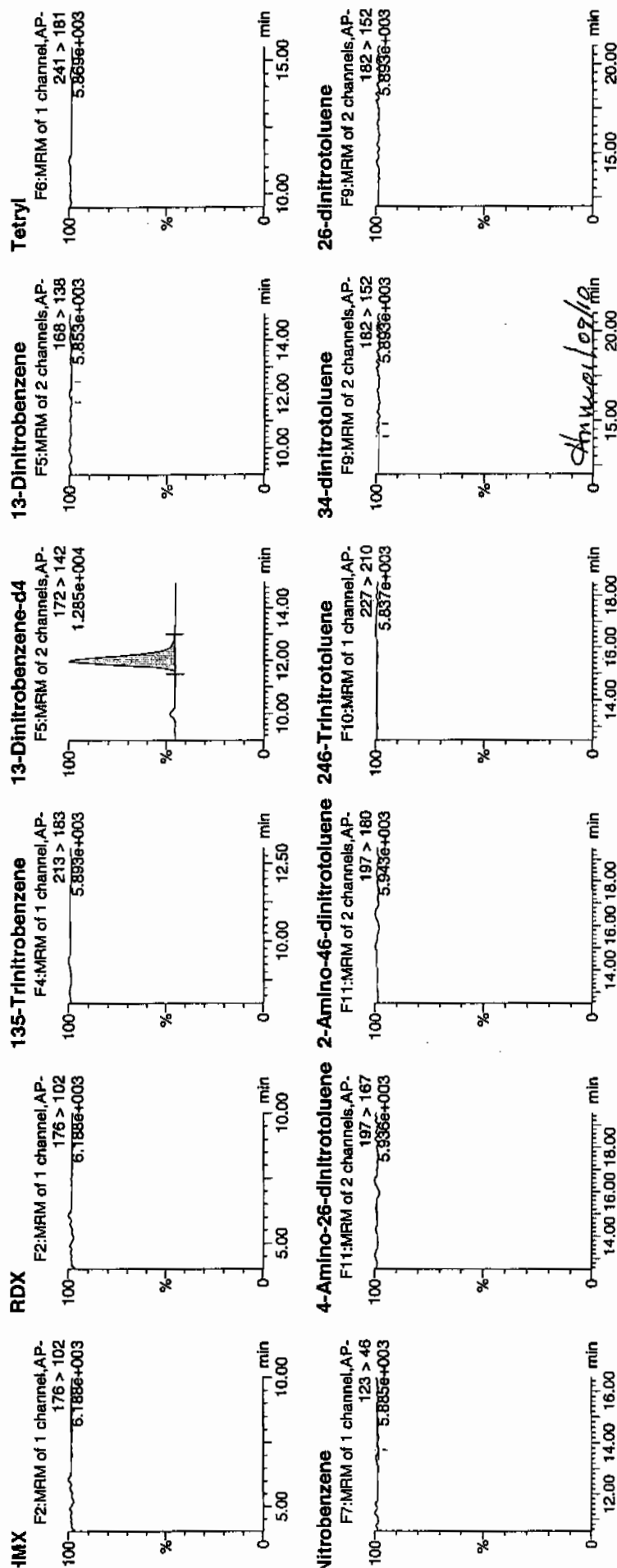
Date: 08-Jan-2010

Time: 22:10:07

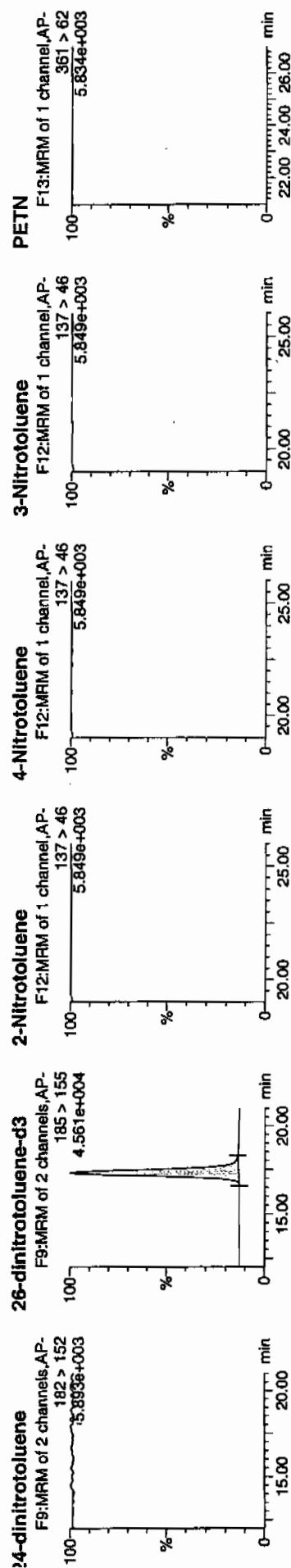
ID: XIBLK03

Ratio: 1:1,A

WAT
1/9/10



Dataset: C:\MASSLYN\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



Name	Trace	Rt [R]	Area	S Area	Abs.Resp	Response	Flags	Mod Date	Mod Time	Inj Vol [µL]	%Rec	%Dev
HMX	XIBLK03 176 > 102			2815.021								
RDX	XIBLK03 176 > 102			2815.021								
135-Trinitrobenzene	XIBLK03 213 > 183			2815.021								
13-Dinitrobenzene-d4	XIBLK03 172 > 142	11.97	2815.021		2815.021	bb		09-Jan-10	11:49:50	480.4562	96.1	-3.9
13-Dinitrobenzene	XIBLK03 168 > 138			2815.021								
Tetryl	XIBLK03 241 > 181			2815.021								
Nitrobenzene	XIBLK03 123 > 46			2815.021								
4-Amino-26-dinitrotoluene	XIBLK03 197 > 167			16963.336				MM-	09-Jan-10	11:50:13		
2-Amino-46-dinitrotoluene	XIBLK03 197 > 180			16963.336								
246-Trinitrotoluene	XIBLK03 227 > 210			16963.336								
34-dinitrotoluene	XIBLK03 182 > 152			16963.336				MM-	09-Jan-10	11:53:50		
26-dinitrotoluene	XIBLK03 182 > 152			16963.336								
24-dinitrotoluene	XIBLK03 182 > 152			16963.336				MM-	09-Jan-10	11:57:50		
26-dinitrotoluene-d3	XIBLK03 185 > 155	17.29	16963.336		16963.336	bb				502.2807	100.5	0.5
2-Nitrotoluene	XIBLK03 137 > 46			16963.336								
4-Nitrotoluene	XIBLK03 137 > 46			16963.336								
3-Nitrotoluene	XIBLK03 137 > 46			16963.336								
PETN	XIBLK03 361 > 62			16963.336								

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 09-JAN-10 02:05

GEL Data File: EXP0108019a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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	564.671
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	483.622
2-Amino-4,6-dinitrotoluene	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108019a

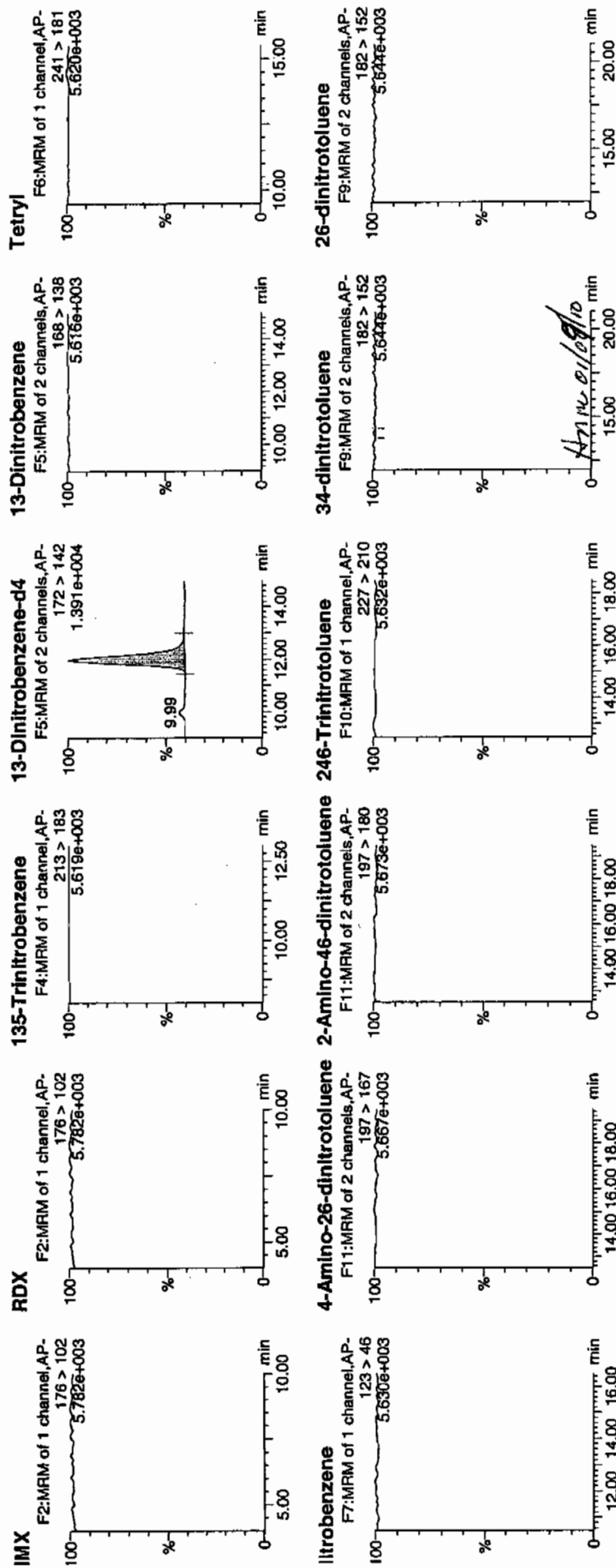
Sample Date: 09-Jan-2010

Sample Time: 02:05:56

Sample ID: XIBLK04

Sample Label: 1:1,A

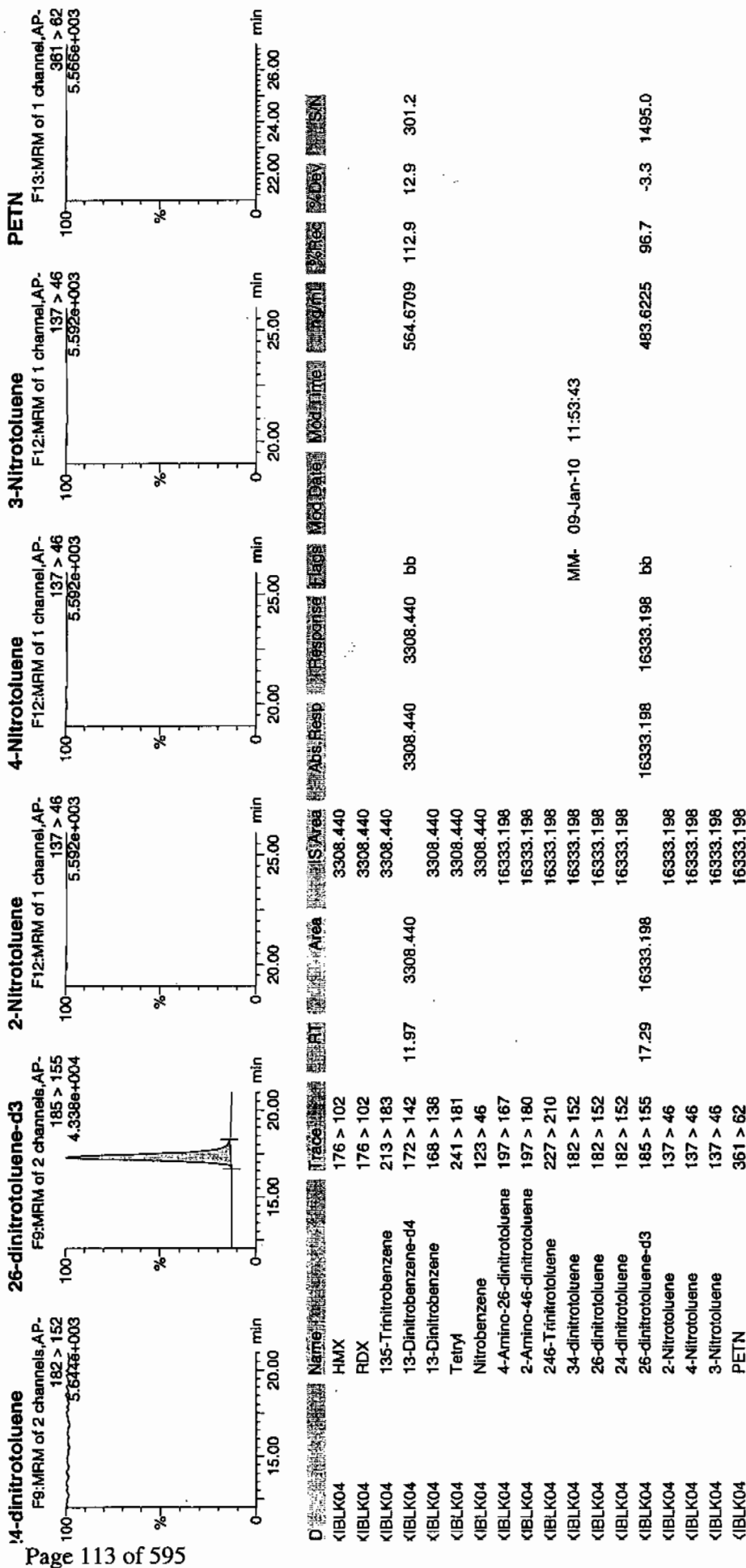
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Printed: Sat Jan 09 12:02:23 2010, Page 38 of 61

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

Dataset: C:\MASSLYNX\New_Exp\PROV010810expA.qld, Time: Sat Jan 09 12:01:37 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 05--JAN-10 16:51

GEL Data File: EXS01050010.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

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

Sample Name: "XIBLK02" Sample ID: "T1LER" File: "EXS010S0010.will"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Week Name: '1A18' Mass(es): '257.2204.9' and
Comment: 'LONEXP_8' Annotation: ''

Comment: 'LCMEXP_8' Annotation: '1'

Sample Index: 1

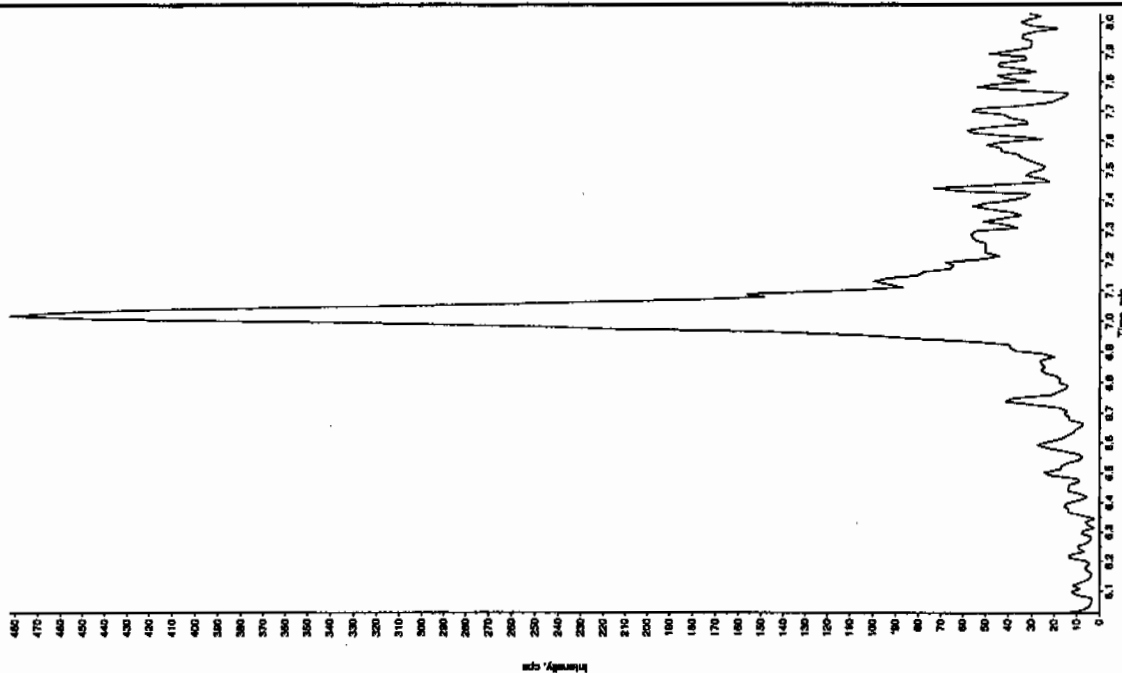
Sample Index:	1
Sample Type:	Unknown

Sample Type:	Unknowns
Concentration:	N/A
Calculated Conc:	0.00 ng/mL

Calculated Conc: 0.00
Date: 1/5/2010

1/5/2010

1. Date: 1/3/84
1. Time: 4:51:00



Sample Name: "XIBL002" Sample ID: "H1ER" File: "EXS01050010.will"

Sample Name: "XISUK02" Sample ID: "1167" Hw: "EXS"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/16.0 amu"

Peak Name: "35-Dinitroaniline" Mass(es):
Comment: "1 CMSEYE B" Annotation: "

Comment: "LCMSEXP_B"

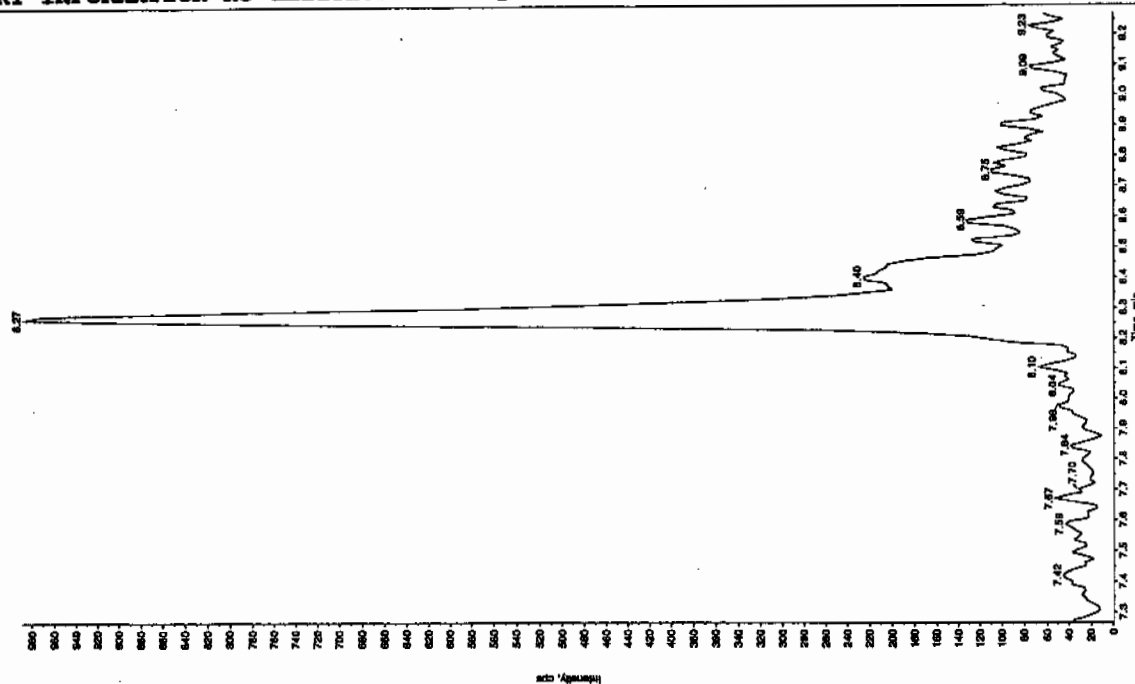
Sample Index: 1

Sample Index:	1
Sample Type:	Unknown

Sample Type: Unknown

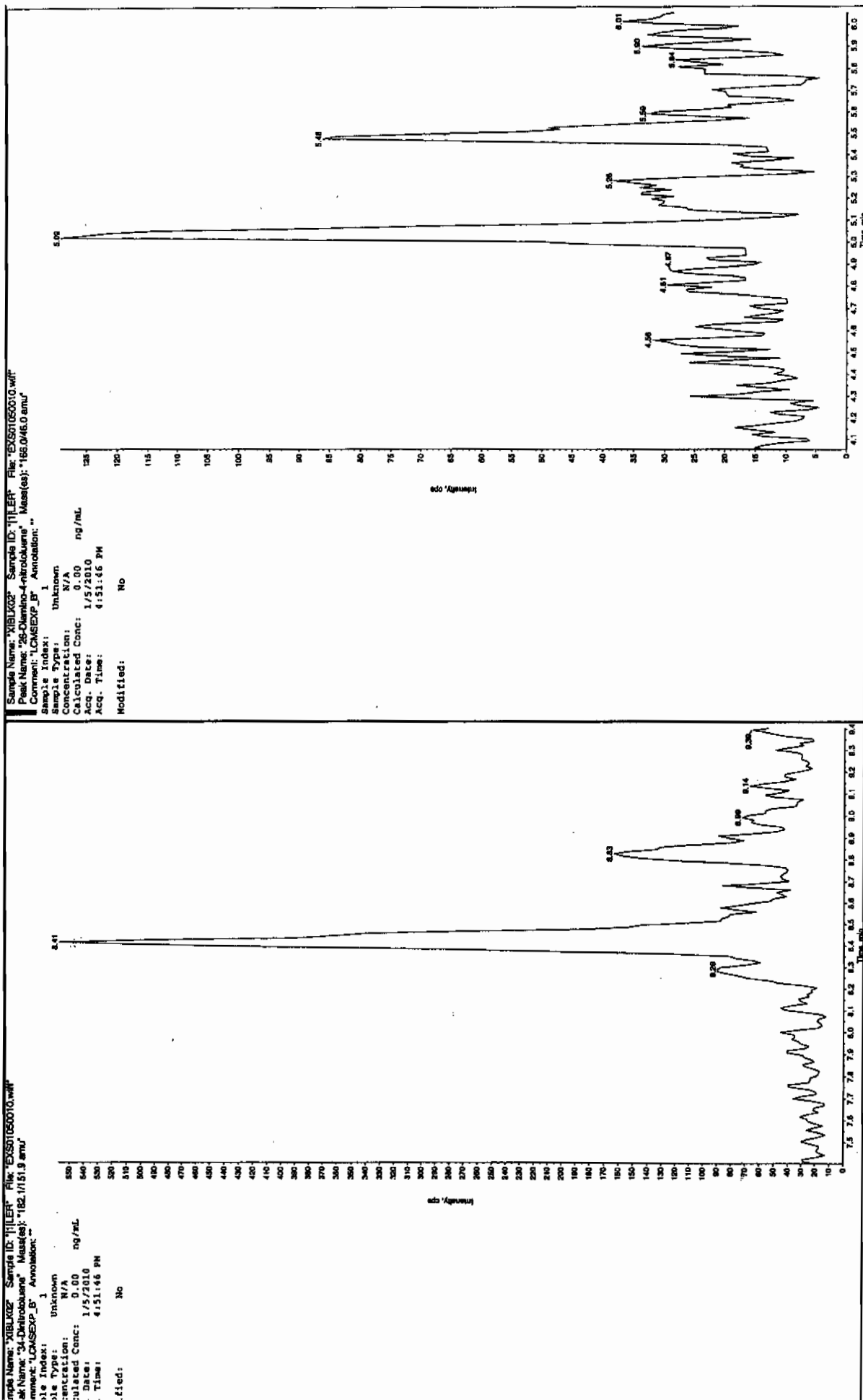
concentration: N/A

Calculated Conc: 0.0

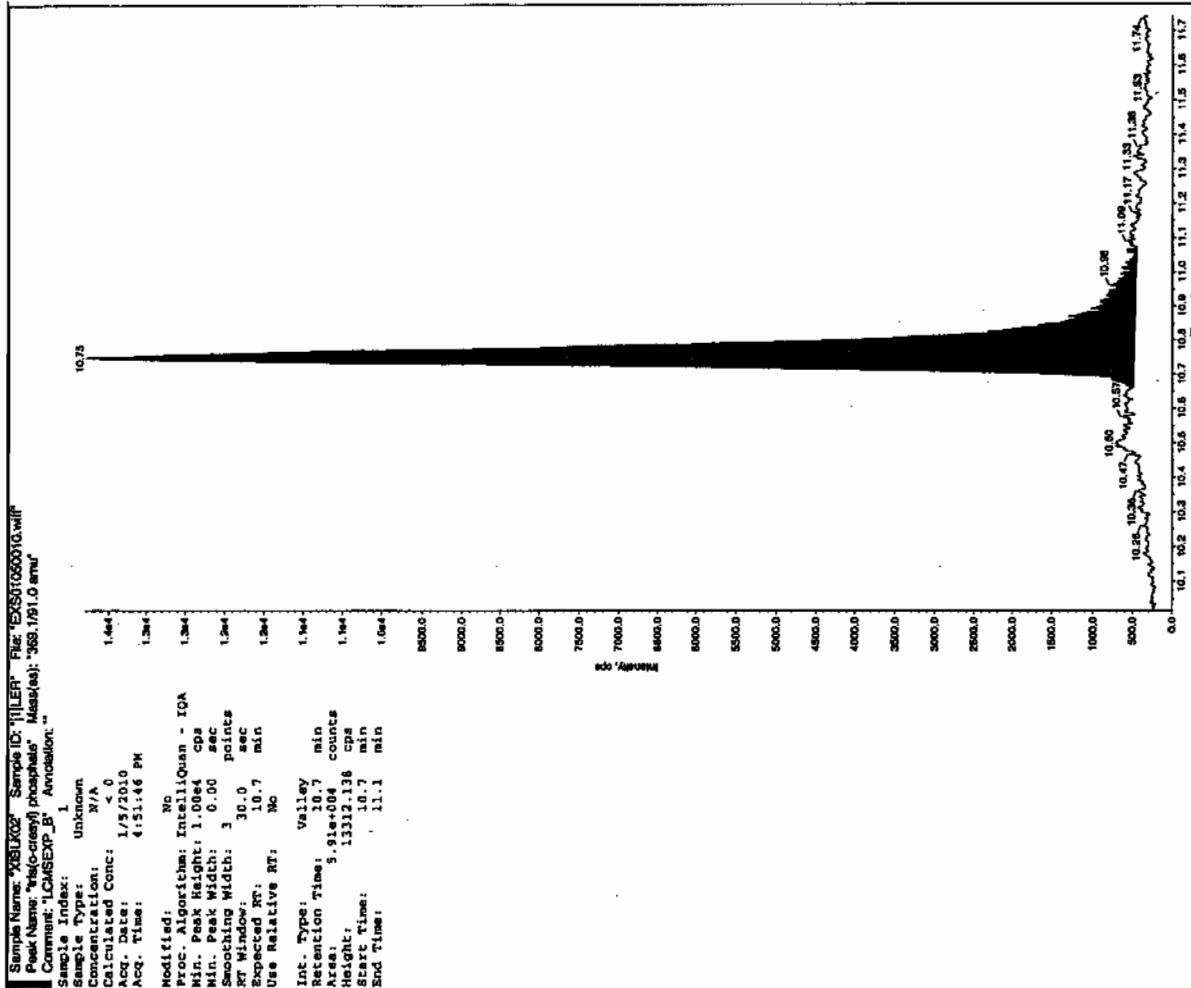
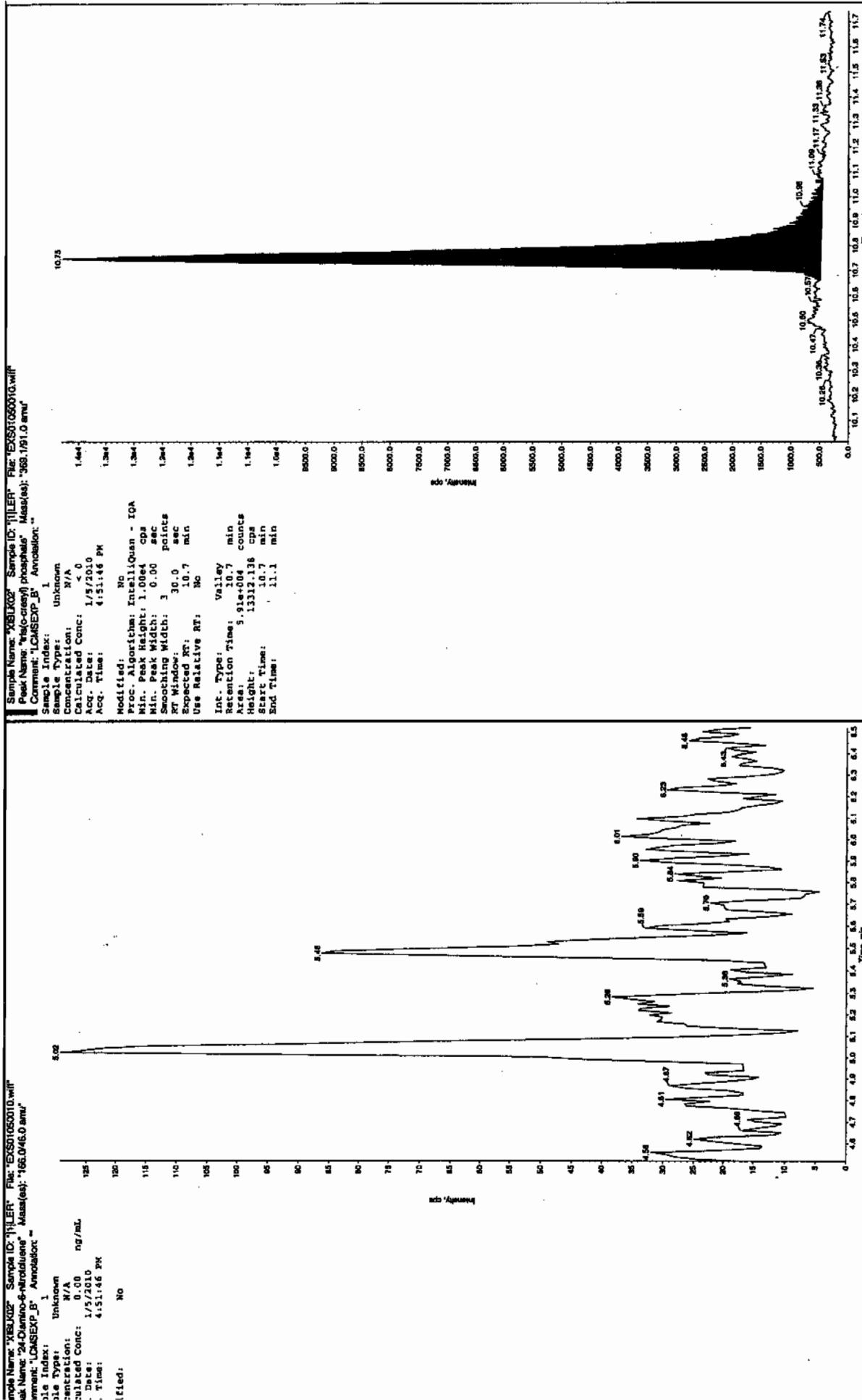


Time: 14h
 EEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

01/10/2011



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



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 05-JAN-10 17:23

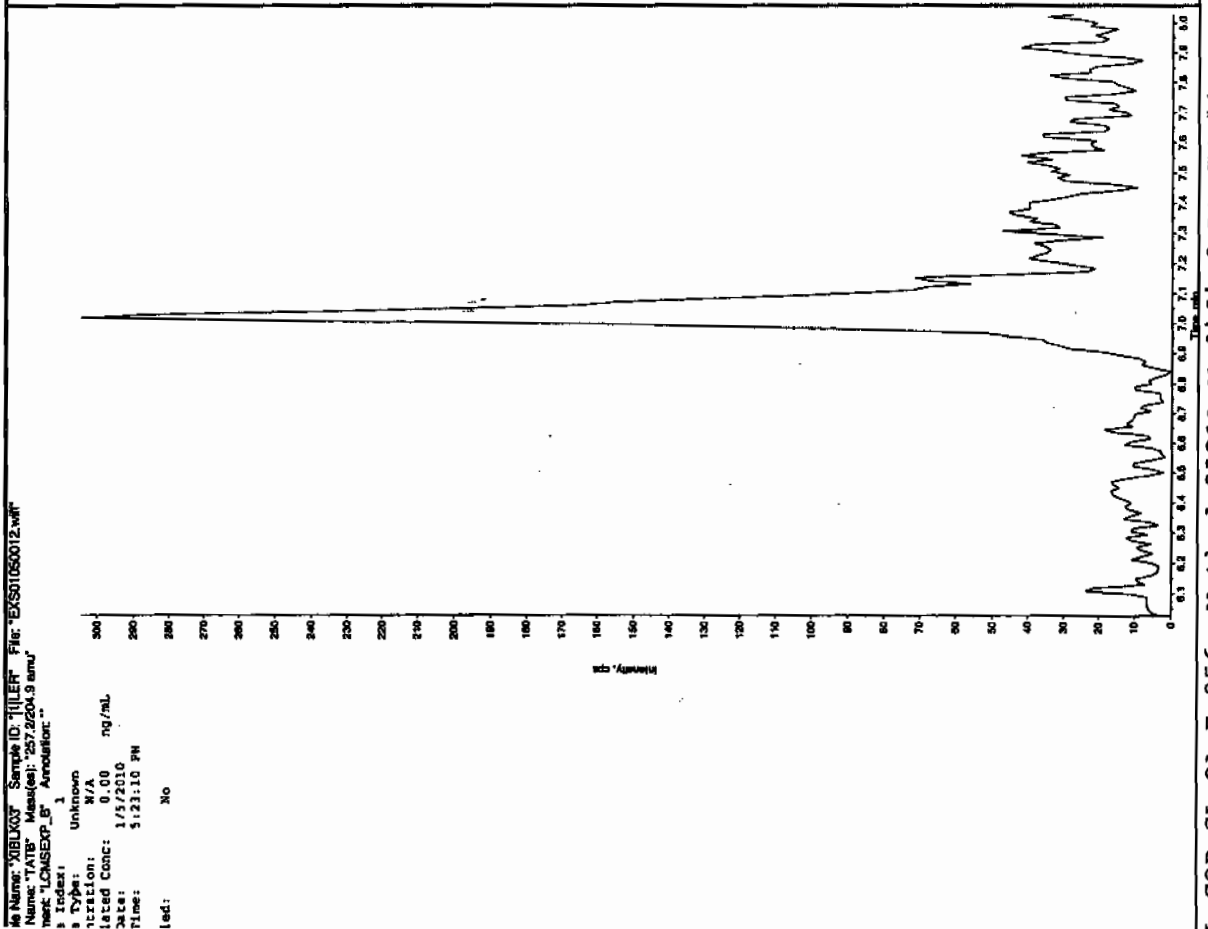
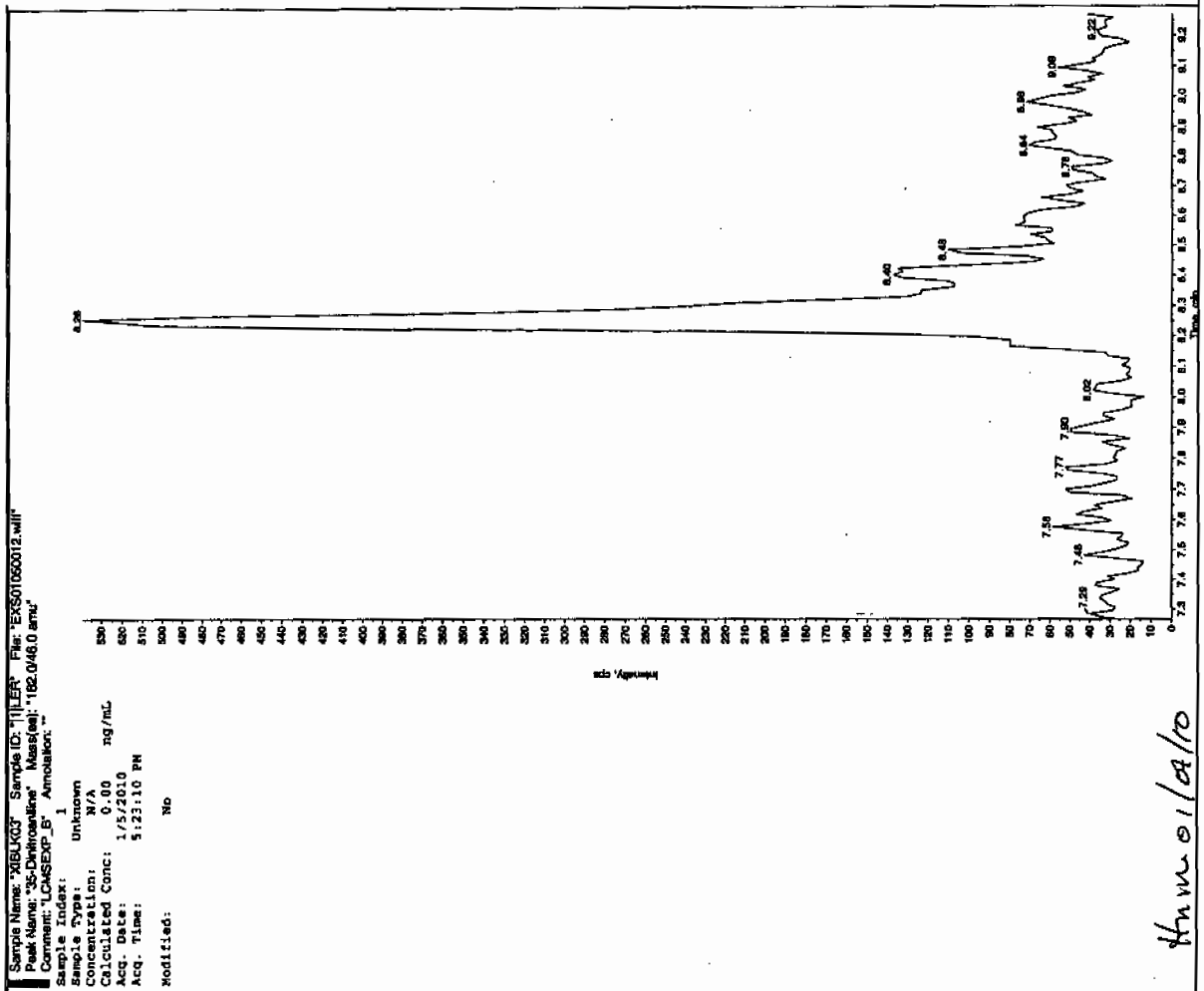
GEL Data File: EXS01050012.wiff

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

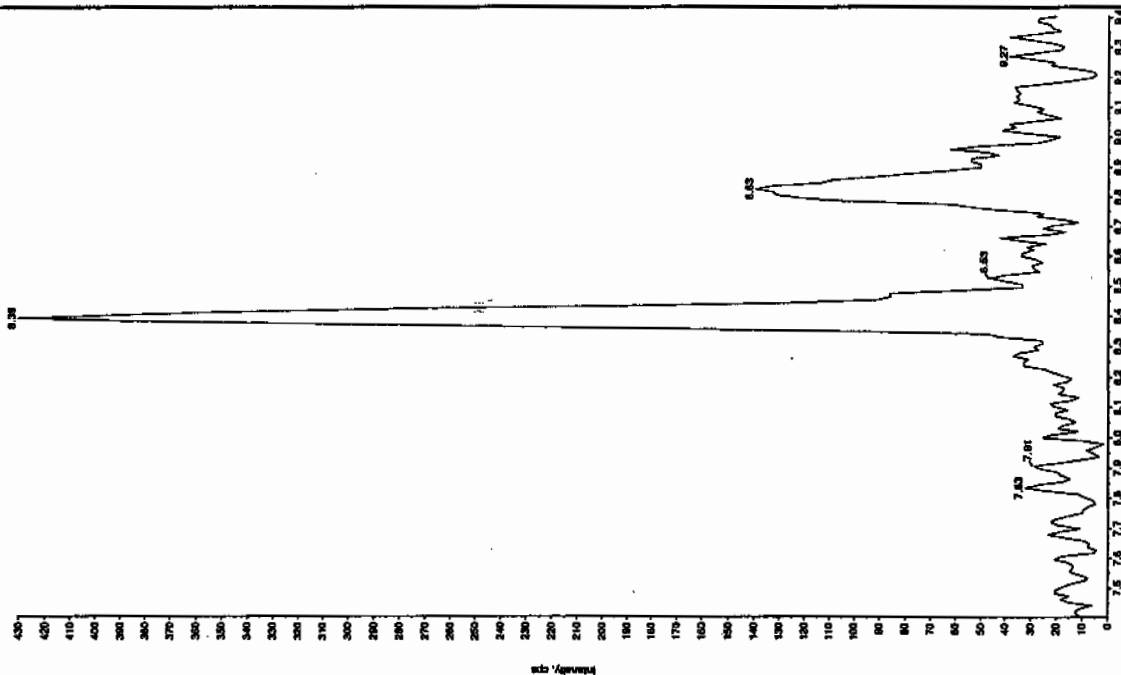
8/21/10



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

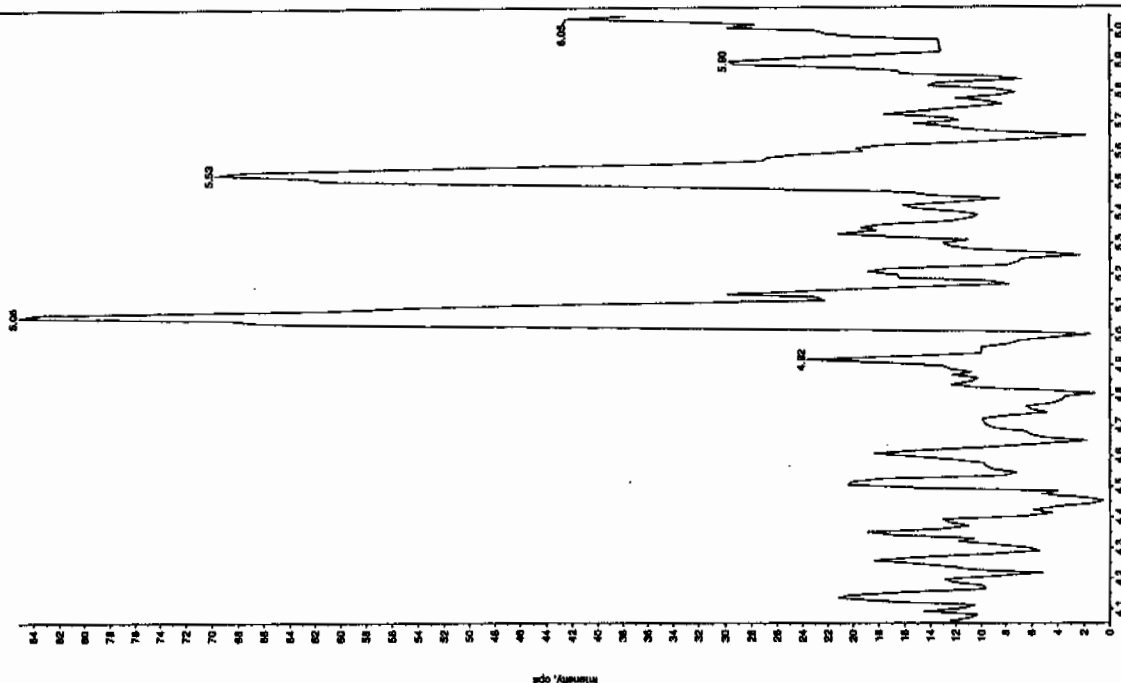
Sample Name: "XBLK03" Sample ID: "HLEP" File: "EX05050012.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1715.9 amu"
 Comment: "LCMSXP JB" Annotation: -

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 5:23:10 PM
 Modified: No

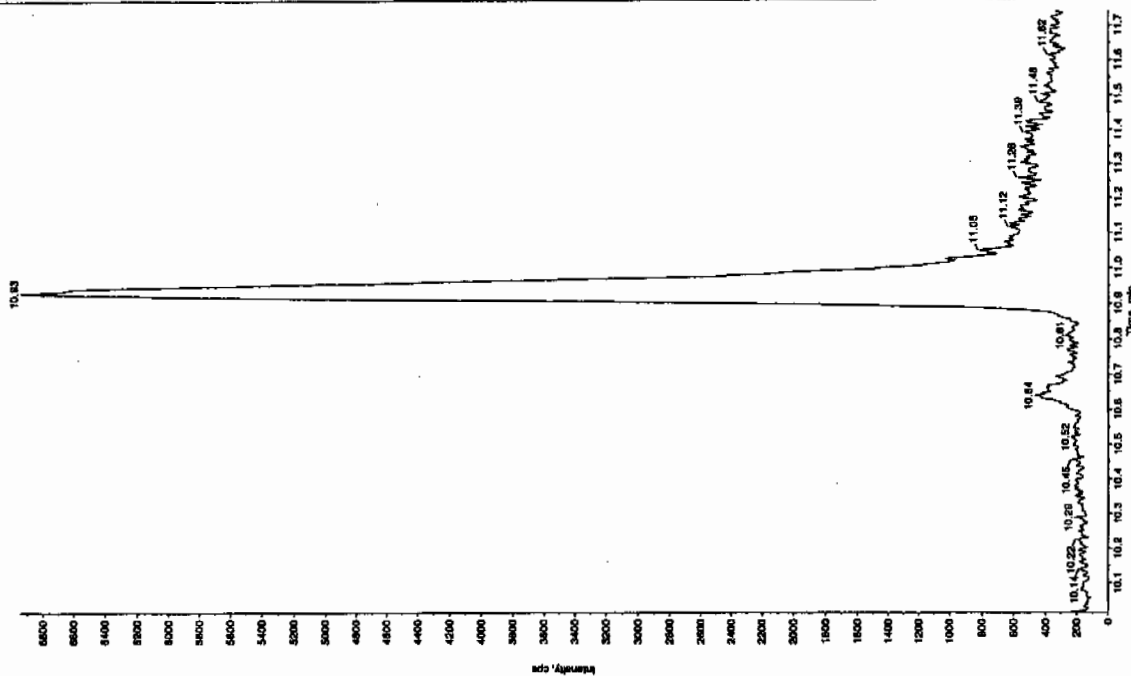


Sample Name: "XBLK03" Sample ID: "HLEP" File: "EX05050012.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSXP JB" Annotation: -

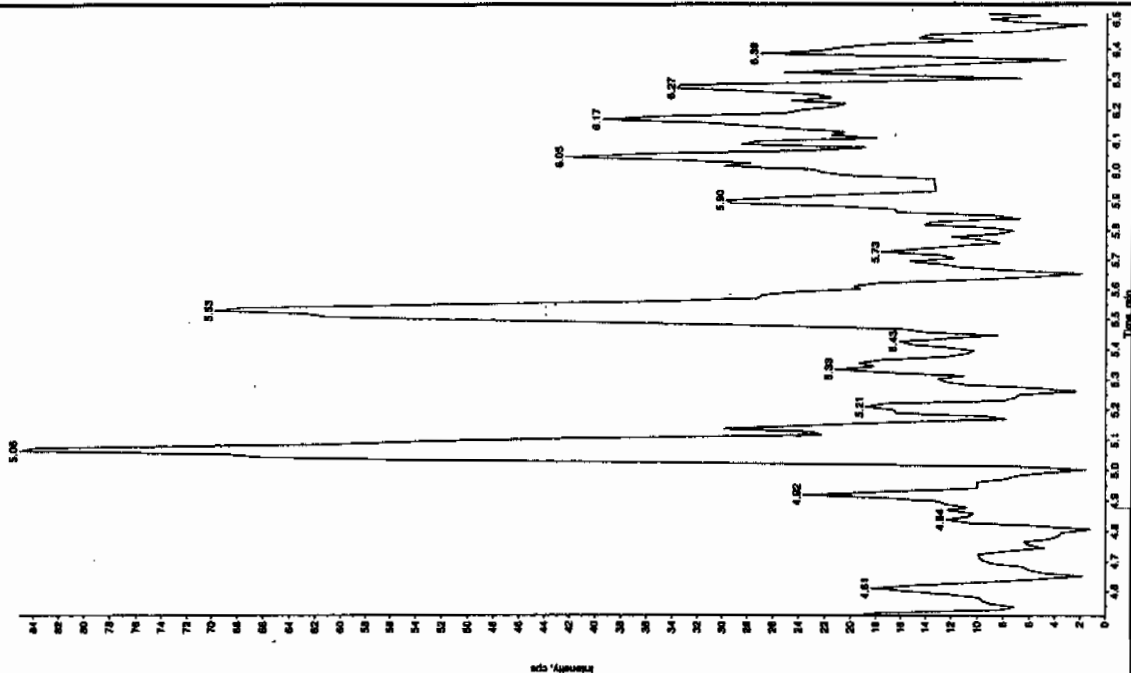
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 5:23:10 PM
 Modified: No



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



Sample Name:	VBS0301	Barcode ID:	TILFER	File:	EX501050012 with
Alt Name:	24-Diamino-6-pyridoxane	Mass (dal):	166.0440.0 amu		
Comment:	LCMSEXP_B7 Annotation: 1				
File Index:	Unknown				
Sample Type:	N/A				
Concentration:	0.00 ug/mL				
Calculated Conc:	1.5% DMSO				
Acq. Date:	5/23/10 PM				
Acq. Time:	5:23:10 PM				
Acq. File:	No				



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 05-JAN-10 20:47

GEL Data File: EXS01050025.wiff

Instrument ID: LCMSMS

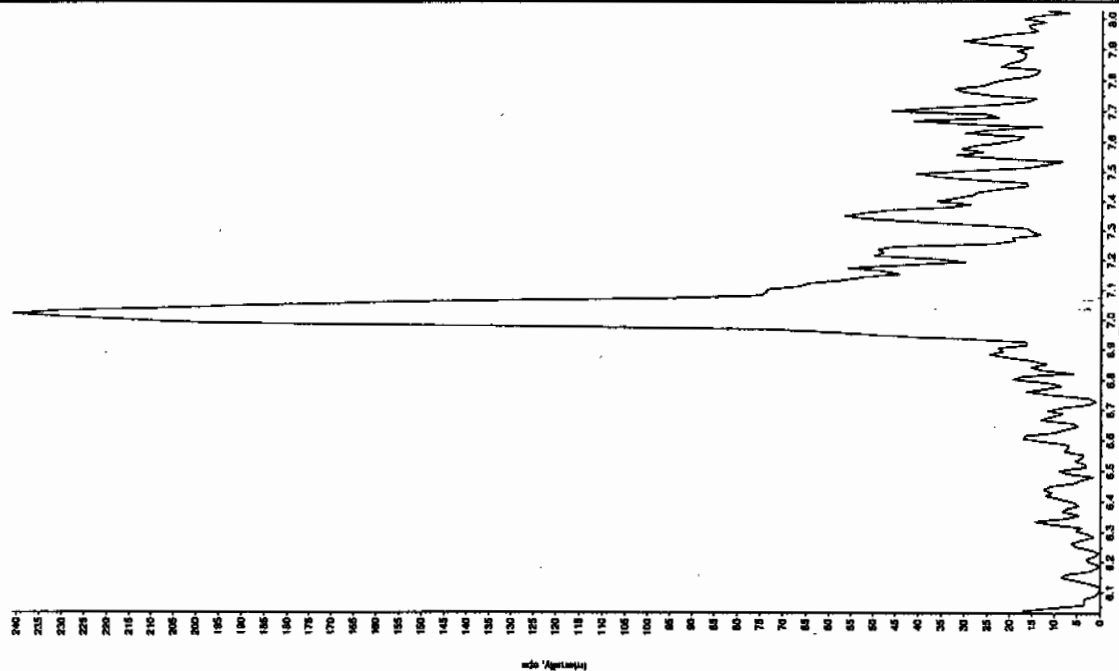
Column: Phenomenex Ultracarb 5u ODS(20)

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

11/2/10

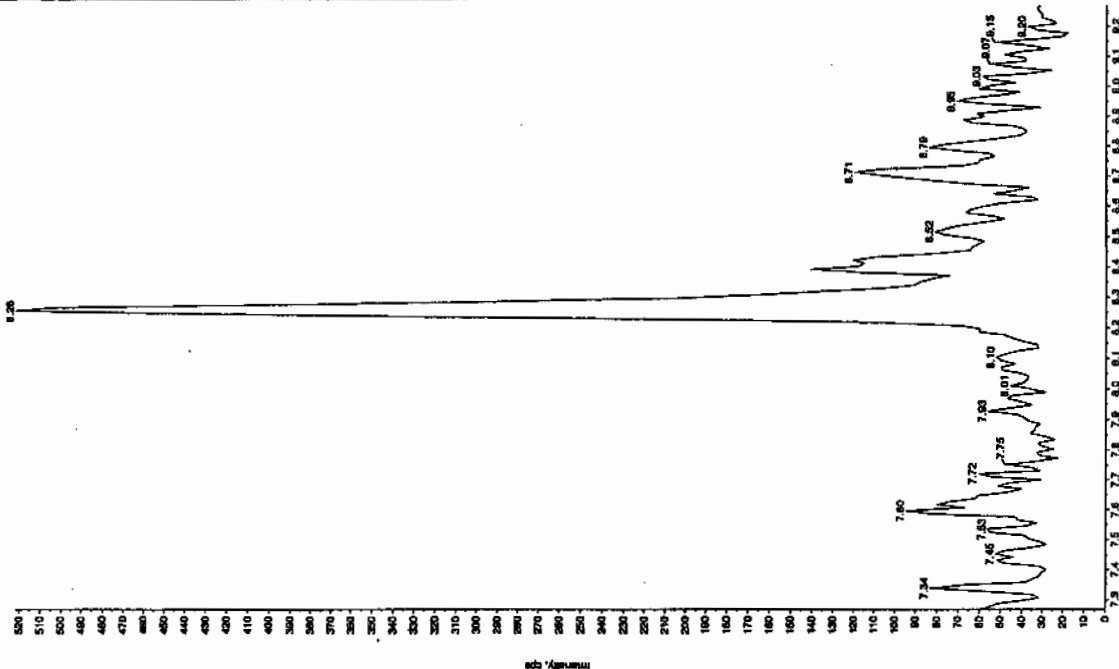
Sample Name: "XELK04" Sample ID: "TILERY" File: "EX501050025.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Concentration: "0.00 ng/mL"
 Sample Index: "1"
 Sample Type: "Unknown"
 Calculated Conc: "0.00 ng/mL"
 Acq. Date: "1/5/2010"
 Acq. Time: "8:47:17 PM"
 Modified: "No"

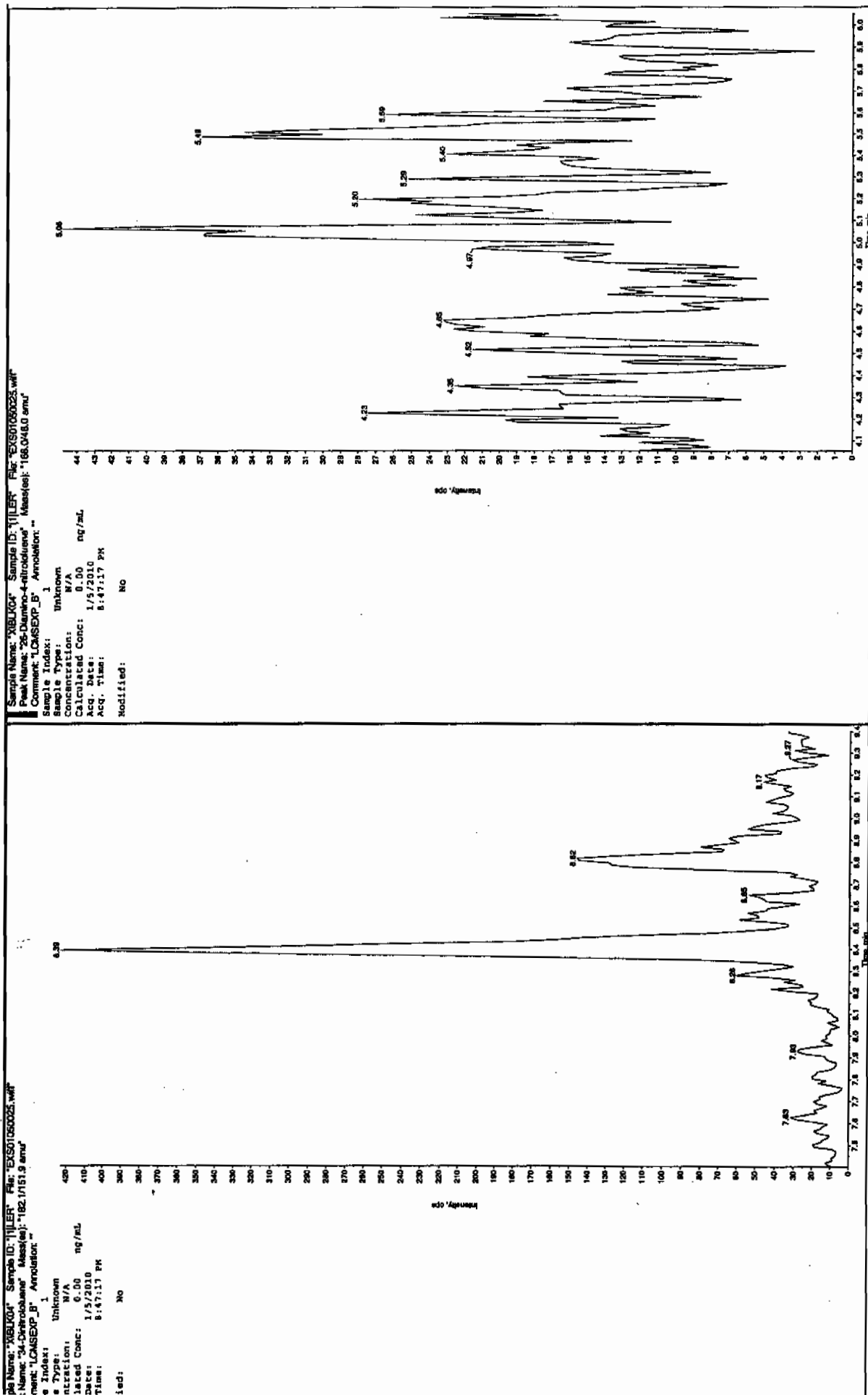


Sample Name: "XELK04" Sample ID: "TILERY" File: "EX501050025.wif"

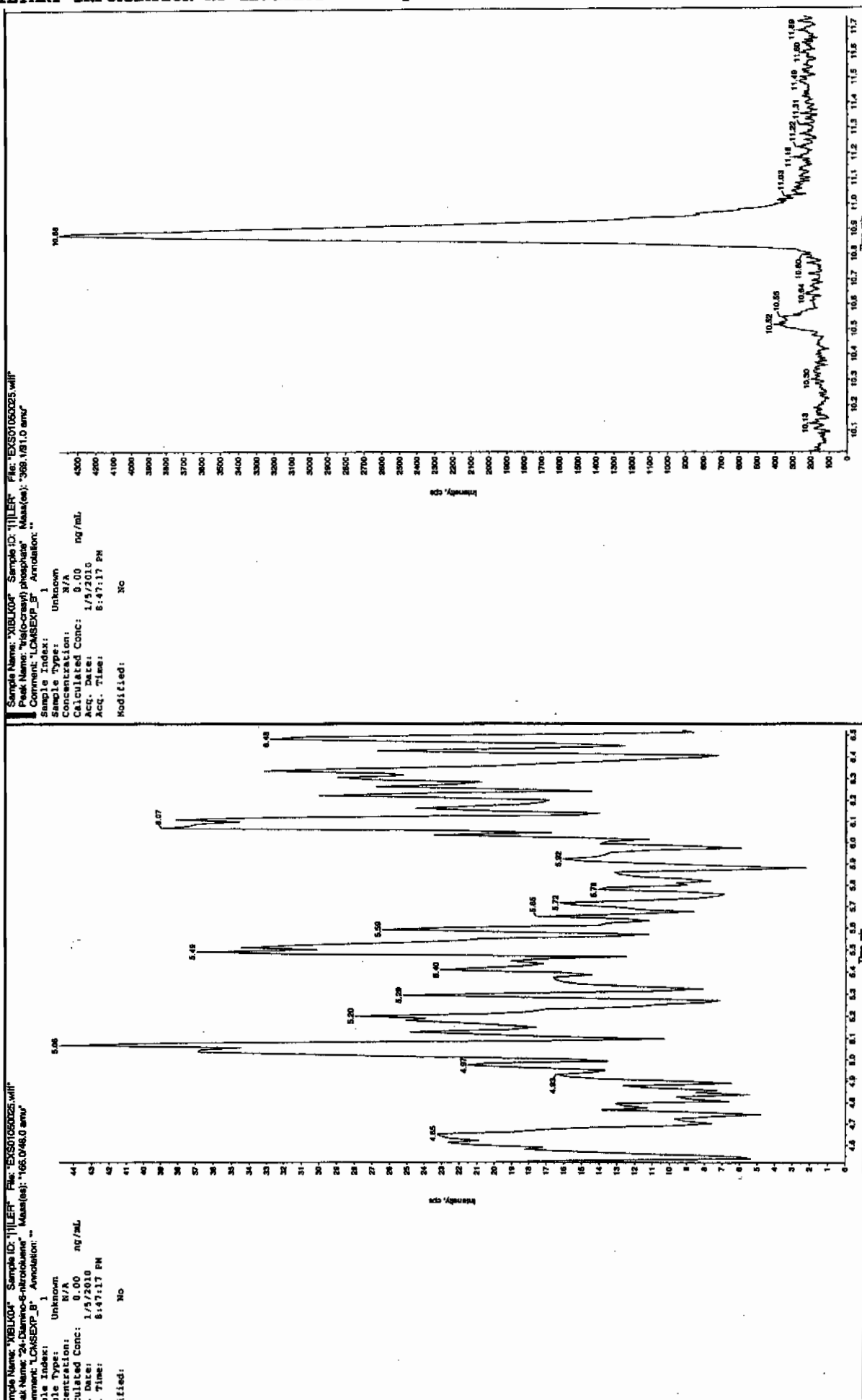
Peak Name: "257-Deuterated" Mass(es): "182.045.0 amu"
 Concentration: "0.00 ng/mL"
 Sample Index: "1"
 Sample Type: "Unknown"
 Calculated Conc: "0.00 ng/mL"
 Acq. Date: "1/5/2010"
 Acq. Time: "8:47:17 PM"
 Modified: "No"



11/2/10



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



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 06-JAN-10 00:11

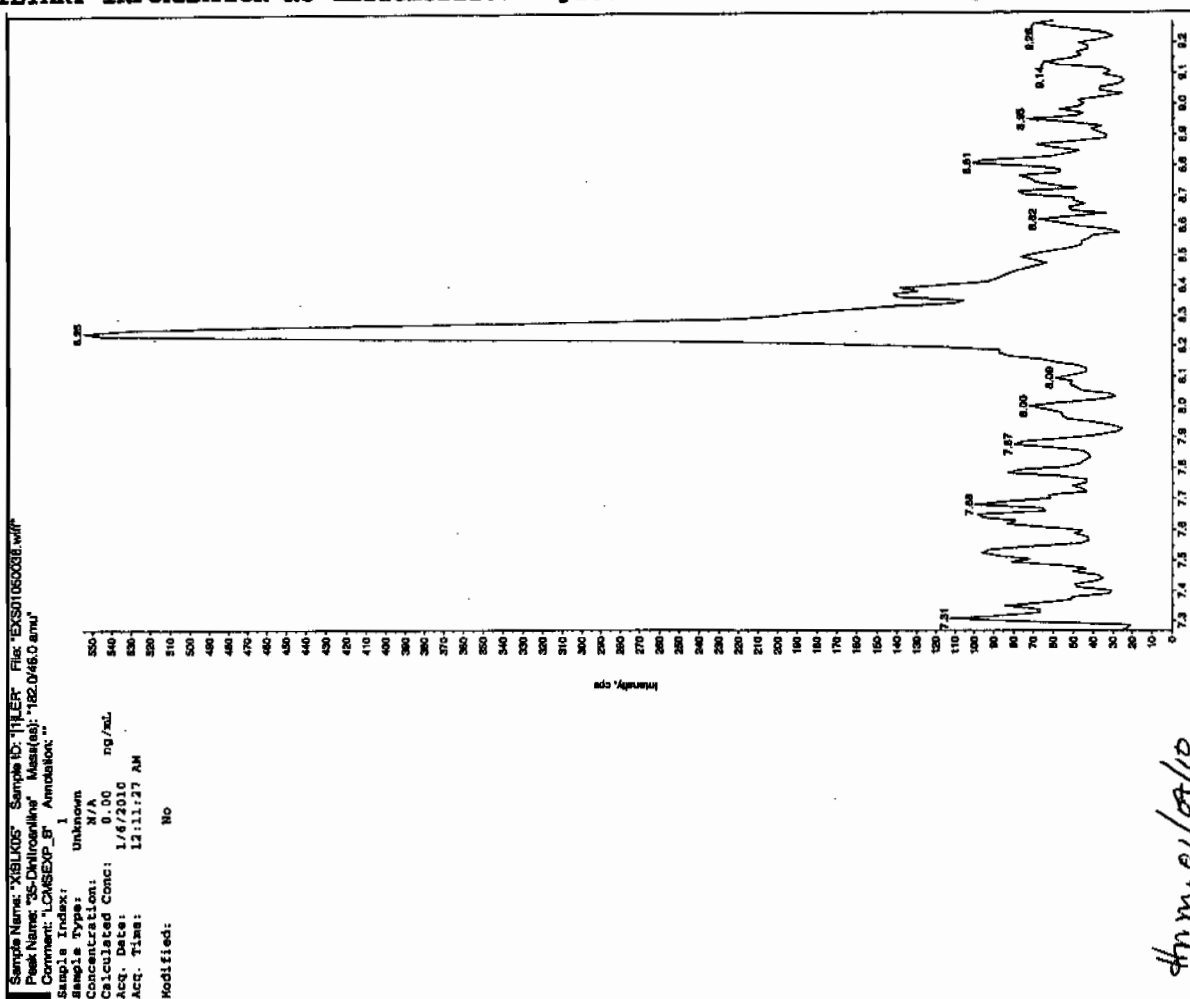
GEL Data File: EXS01050038.wiff

Instrument ID: LCMSMS

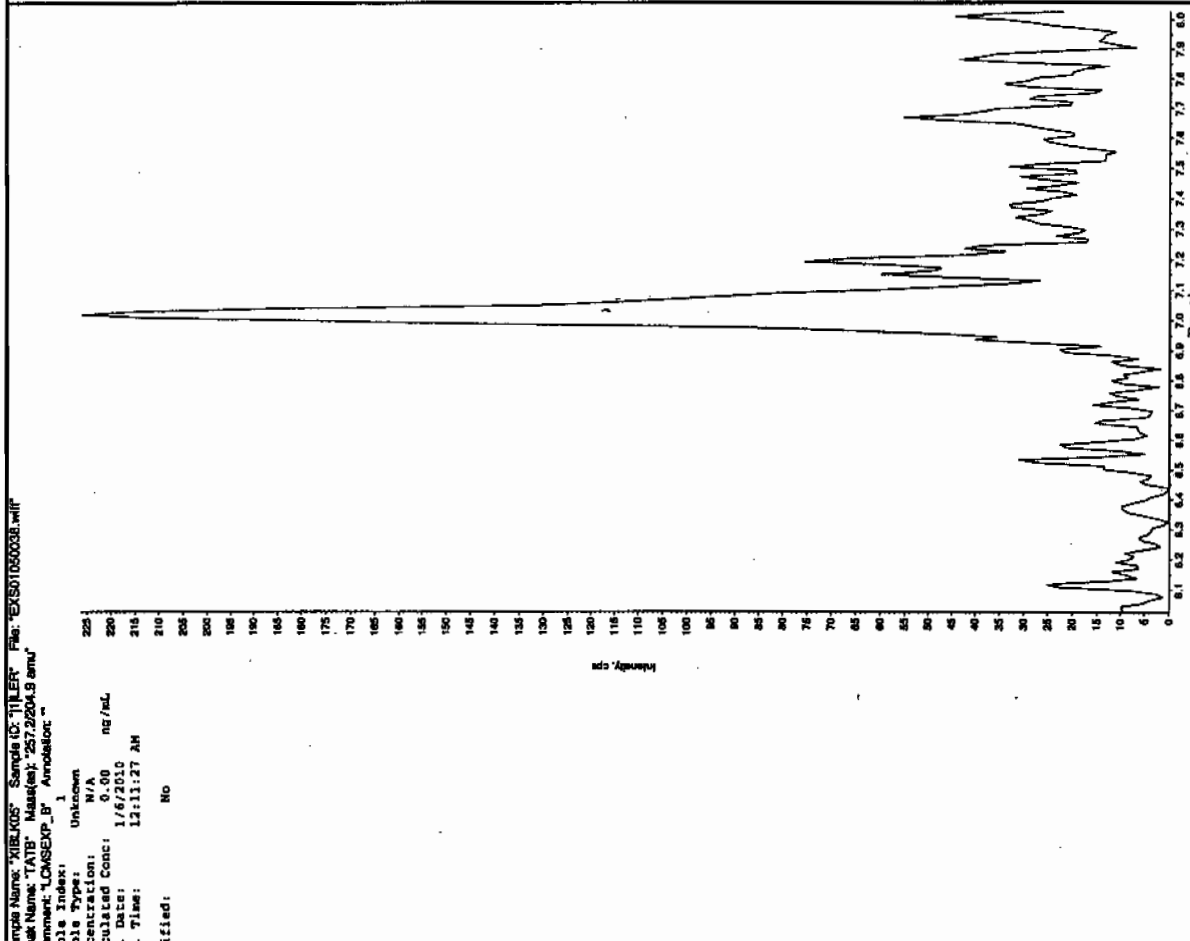
Column: Phenomenex Ultracarb 5u ODS(20)

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

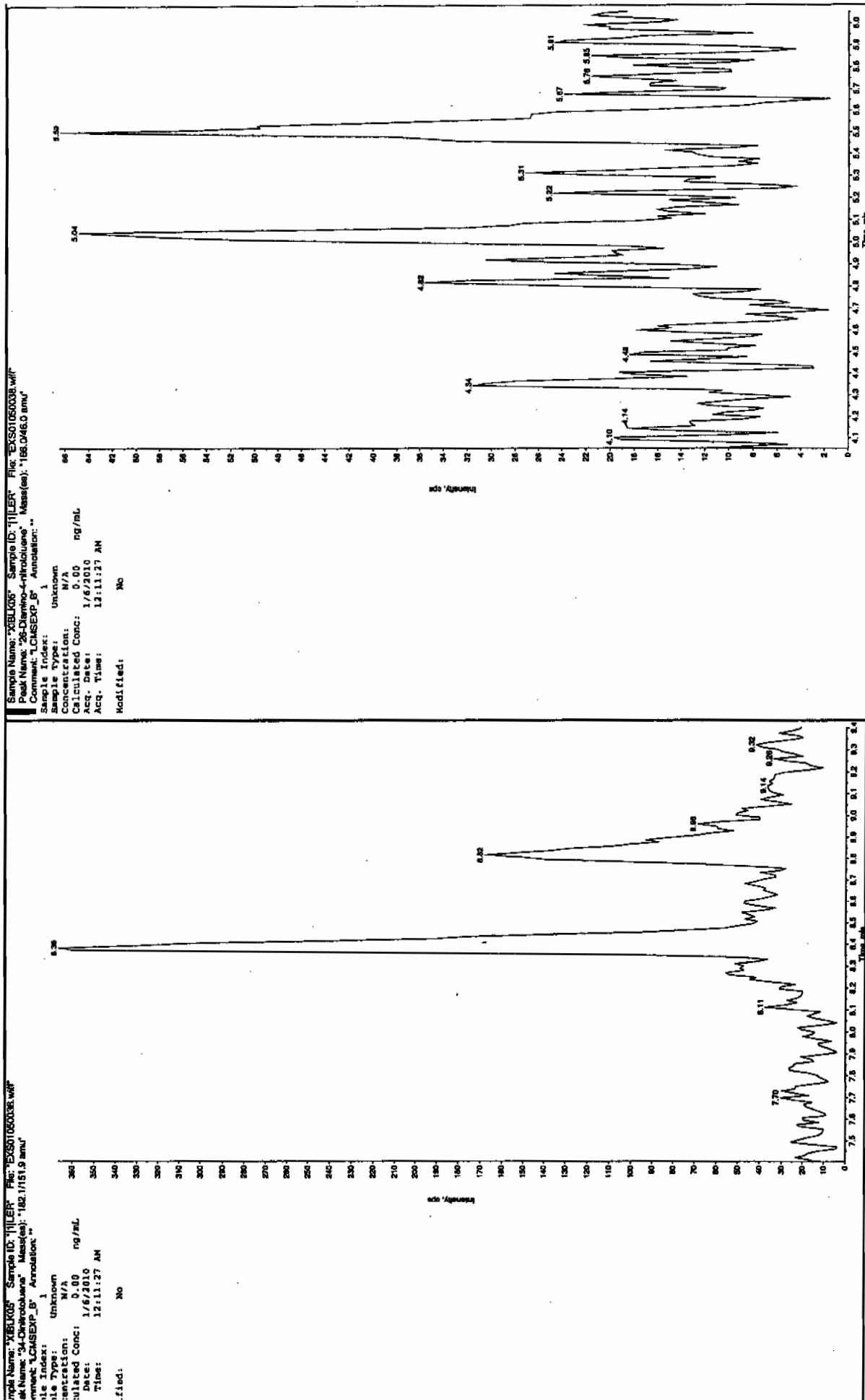
8822
11/12/10



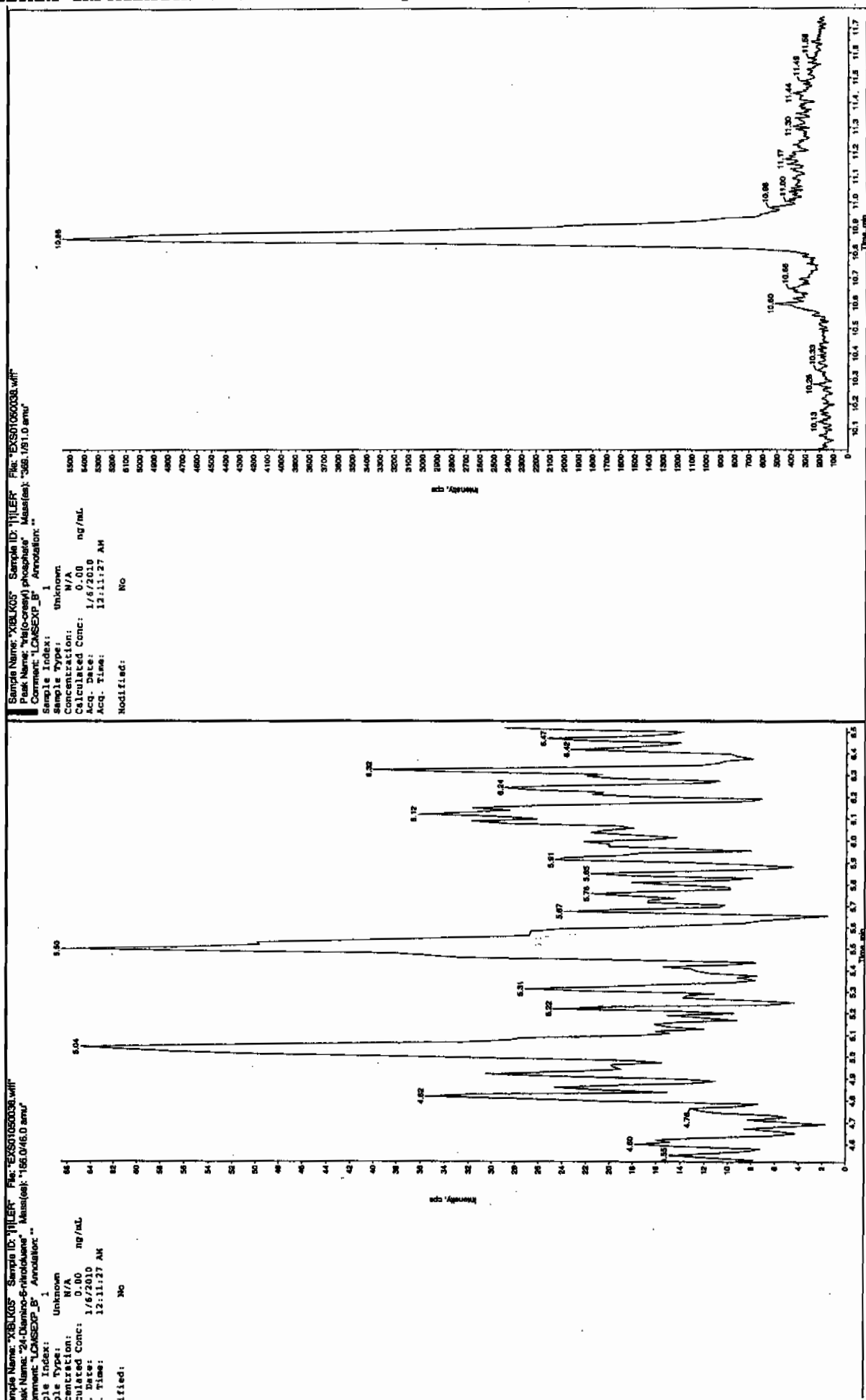
8822
11/12/10



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 06-JAN-10 03:35

GEL Data File: EXS01050051.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

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

01/10
2408

Sample Name: "XBLX05" Sample ID: "11111" File: "EX501050051.mlf"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 1/6/2010

Acq. Time: 3:35:40 AM

Modified: No

Sample Name: "XBLX05" Sample ID: "11111" File: "EX501050051.mlf"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

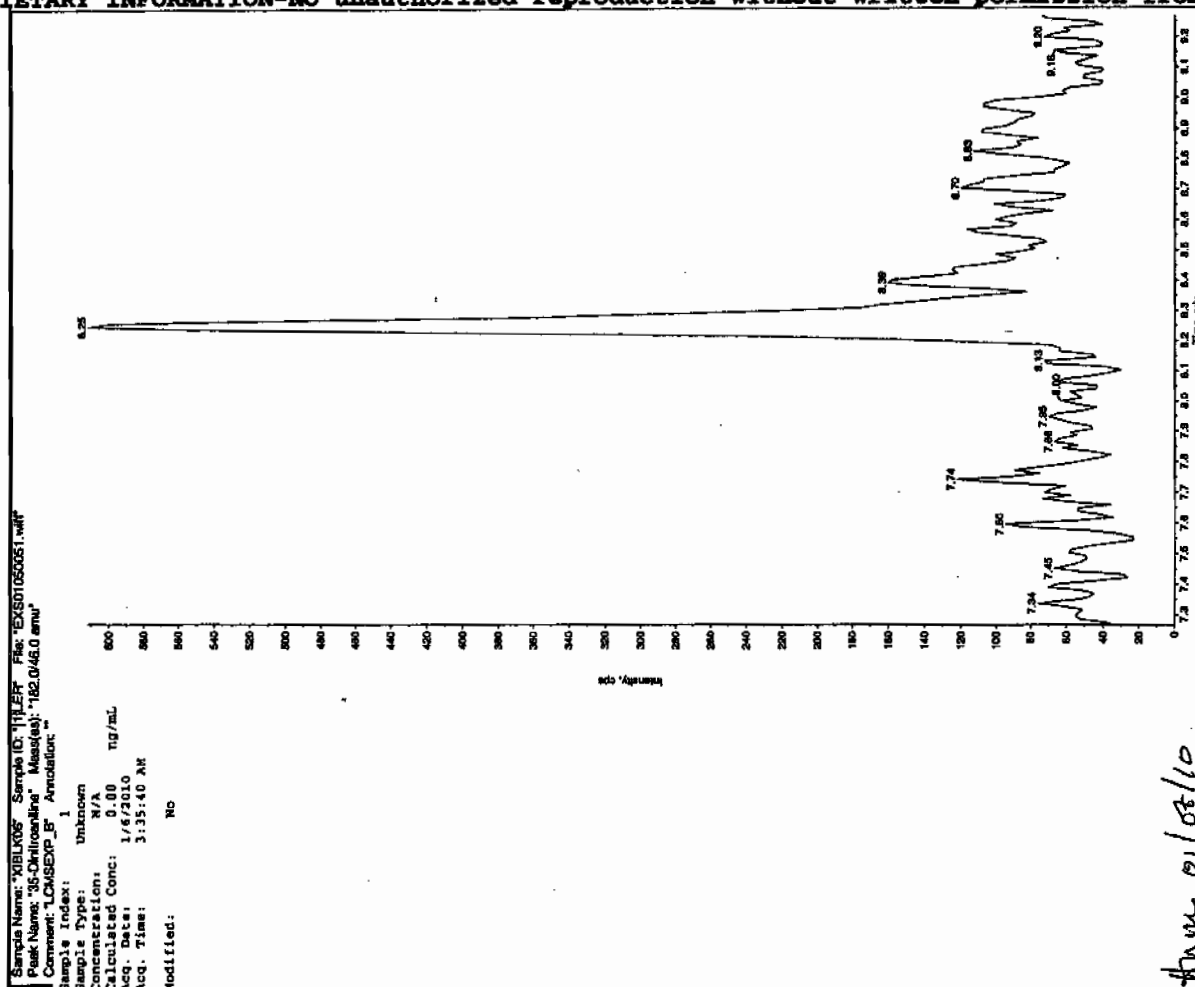
Concentration: N/A

Calculated Conc: 0.00 ng/mL

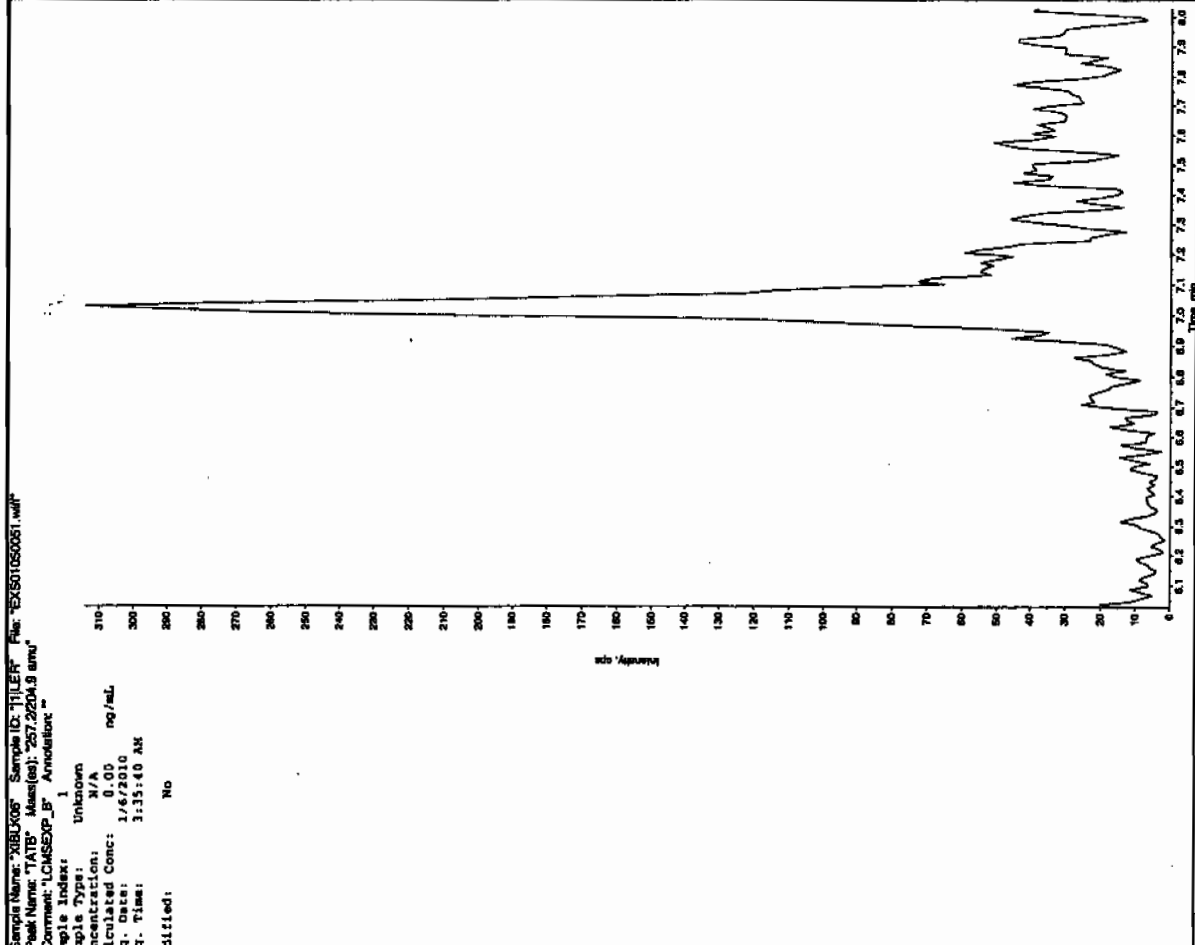
Acq. Date: 1/6/2010

Acq. Time: 3:35:40 AM

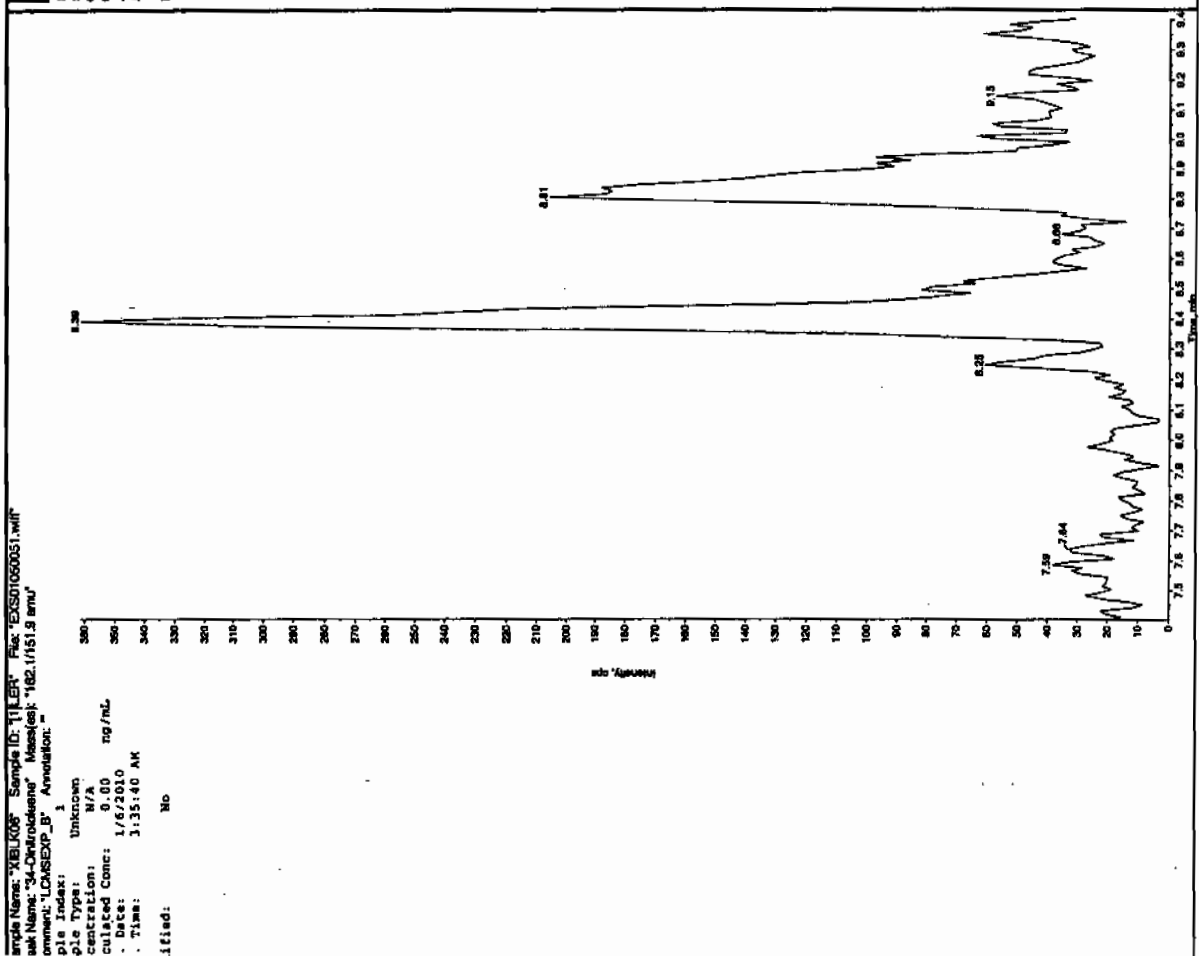
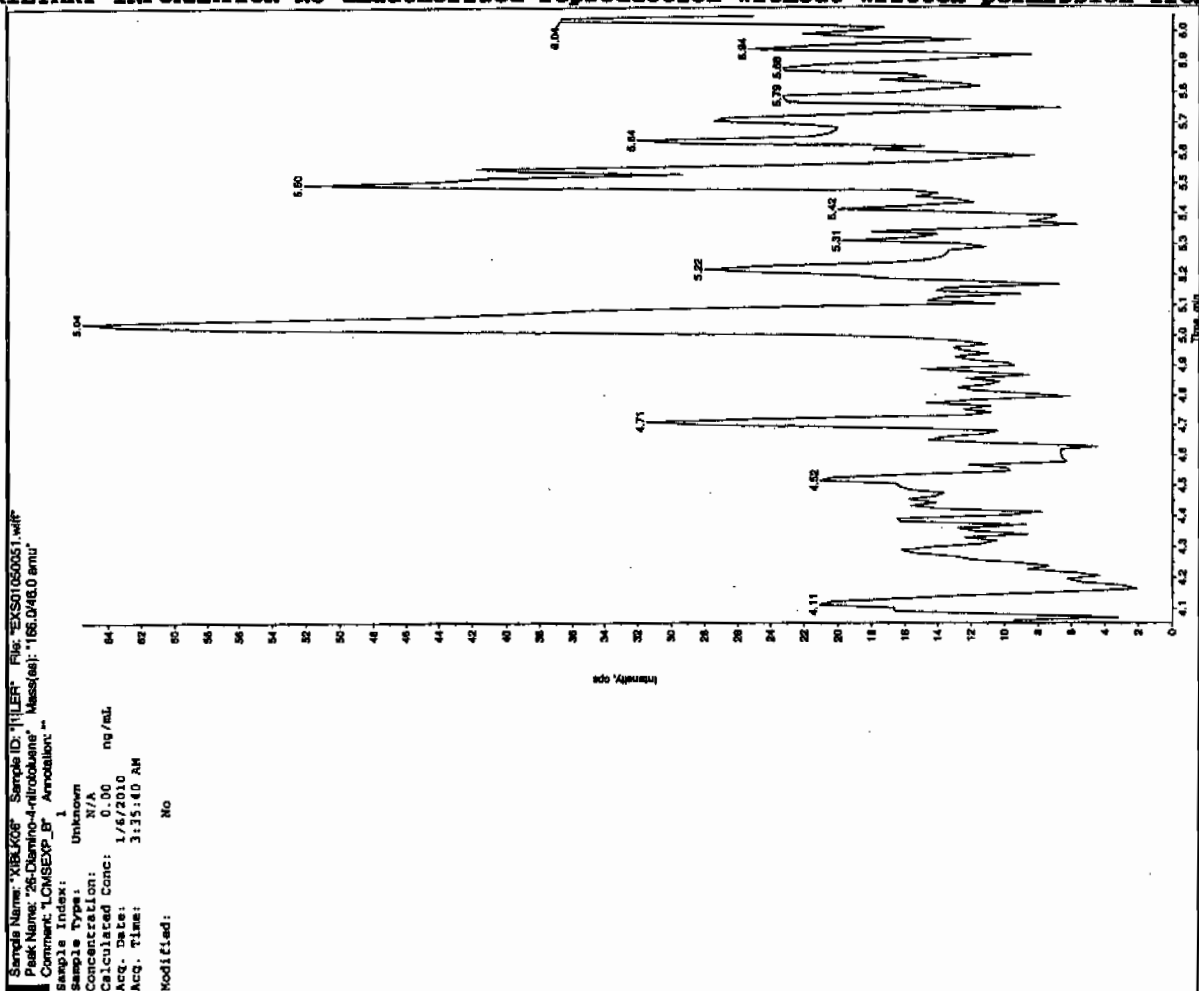
Modified: No



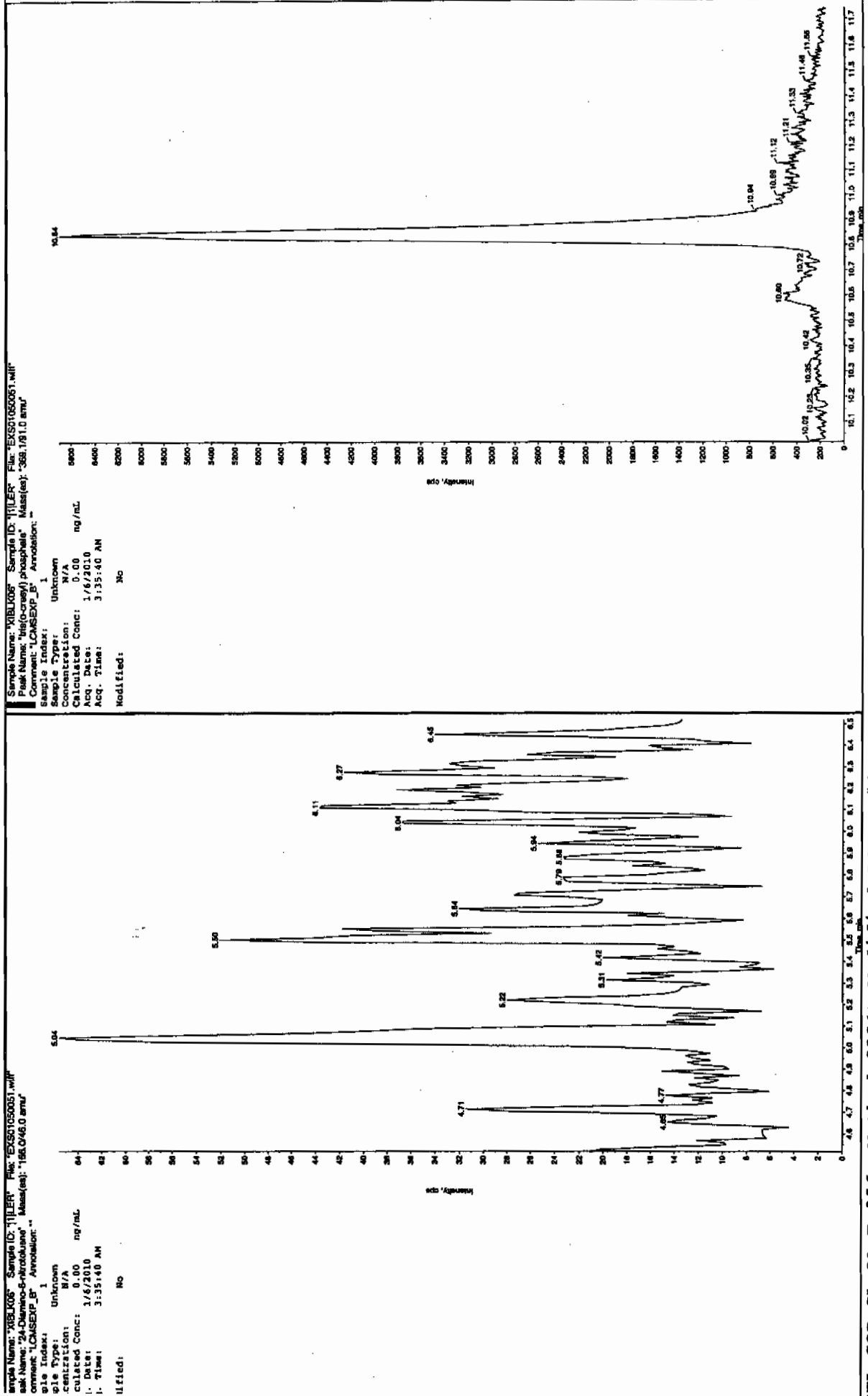
Time 01/08/10



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



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



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

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 06-JAN-10 06:59

GEL Data File: EXS01050064.wiff

Instrument ID: LCMSMS

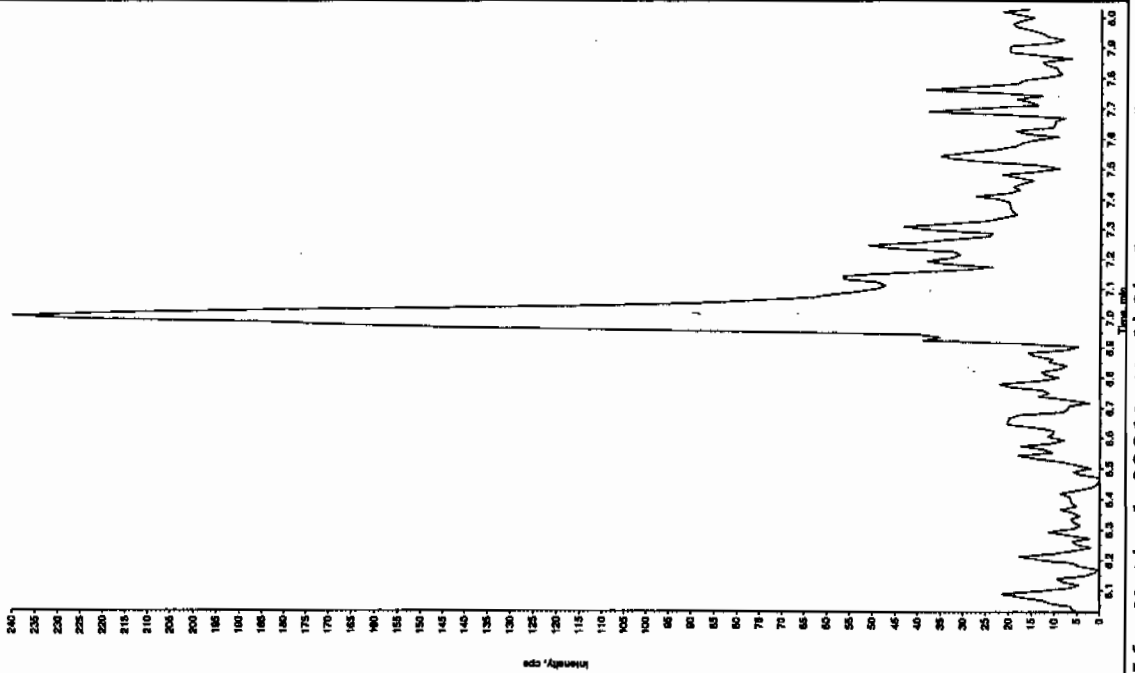
Column: Phenomenex Ultracarb 5u ODS(20)

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

1/2/10
JLH

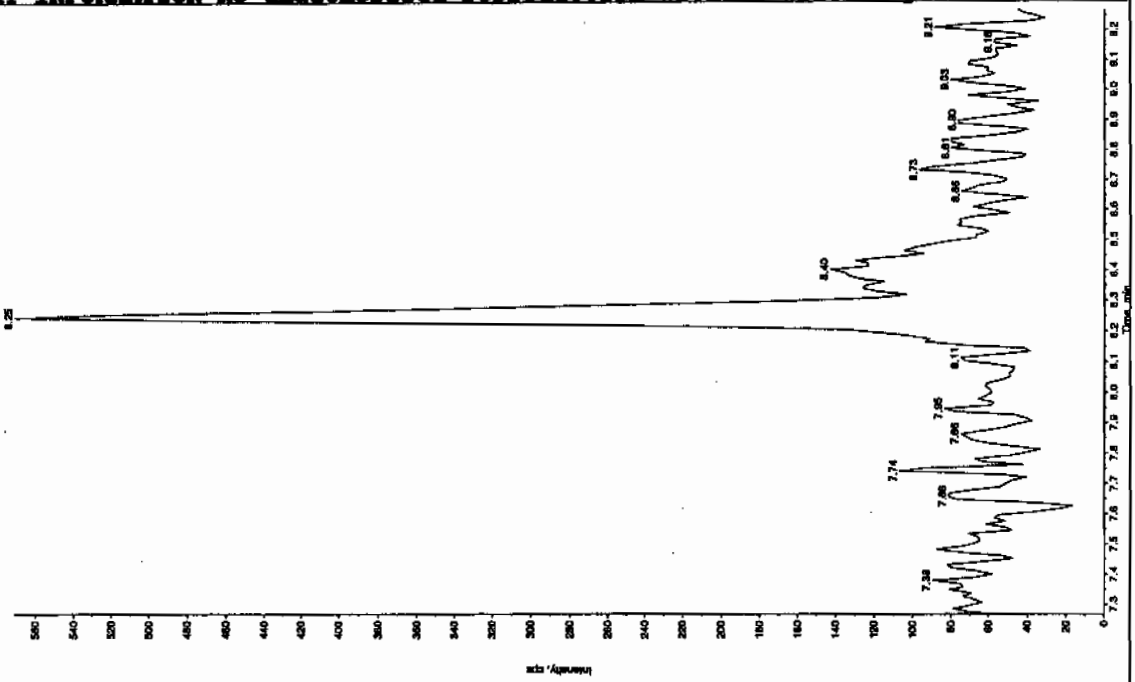
Sample Name: "TATS" Sample ID: "TATS" File: "EXS01050084.wiff"
Peak Name: "TATS" Mass(es): "257.22049 amu"
Comment: "LCMSXP_B" Annotation: "1"

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:59:48 AM
Modified: No



Sample Name: "TATS" Sample ID: "TATS" File: "EXS01050084.wiff"
Peak Name: "TATS" Mass(es): "182.0460 amu"
Comment: "LCMSXP_B" Annotation: "1"

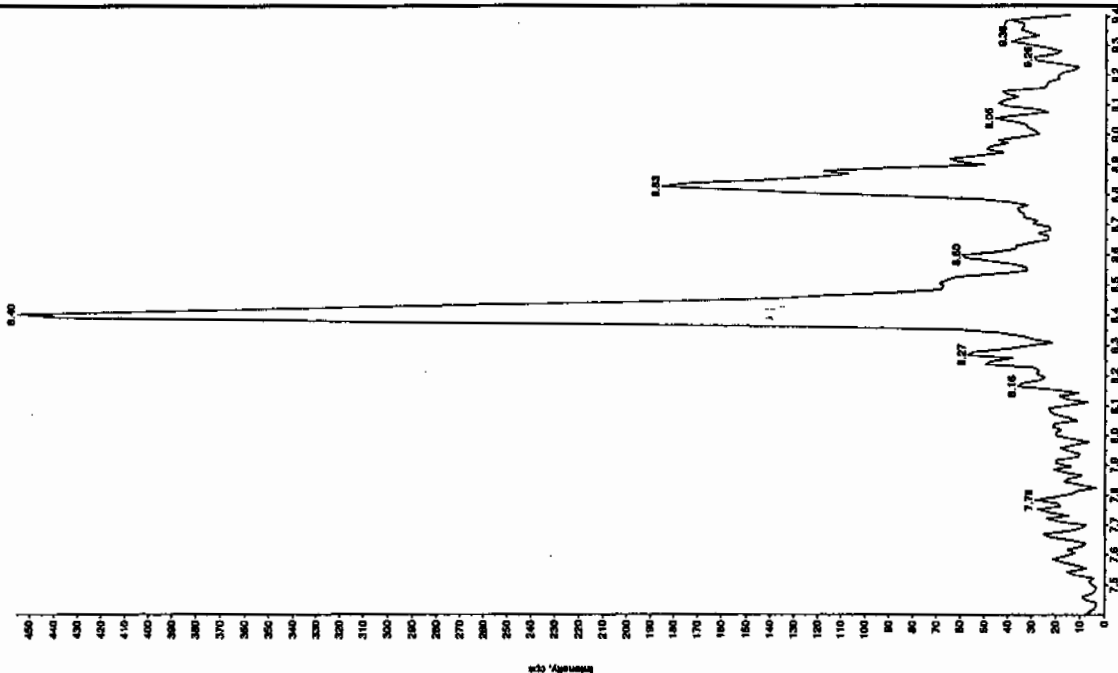
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:59:48 AM
Modified: No



Time 6/07/10

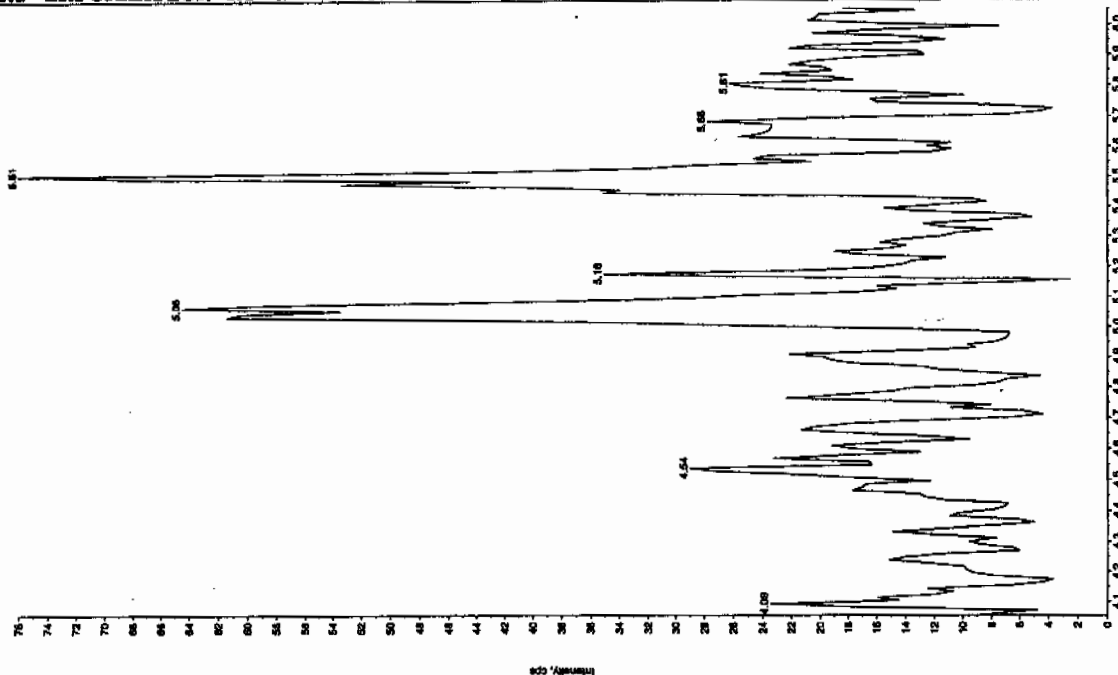
Sample Name: "XIBL007" Sample ID: "1111ER" File: "EX501050064.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.17151.9 amu"
 Comment: "LCMS/EXP_B" Annotation: ""

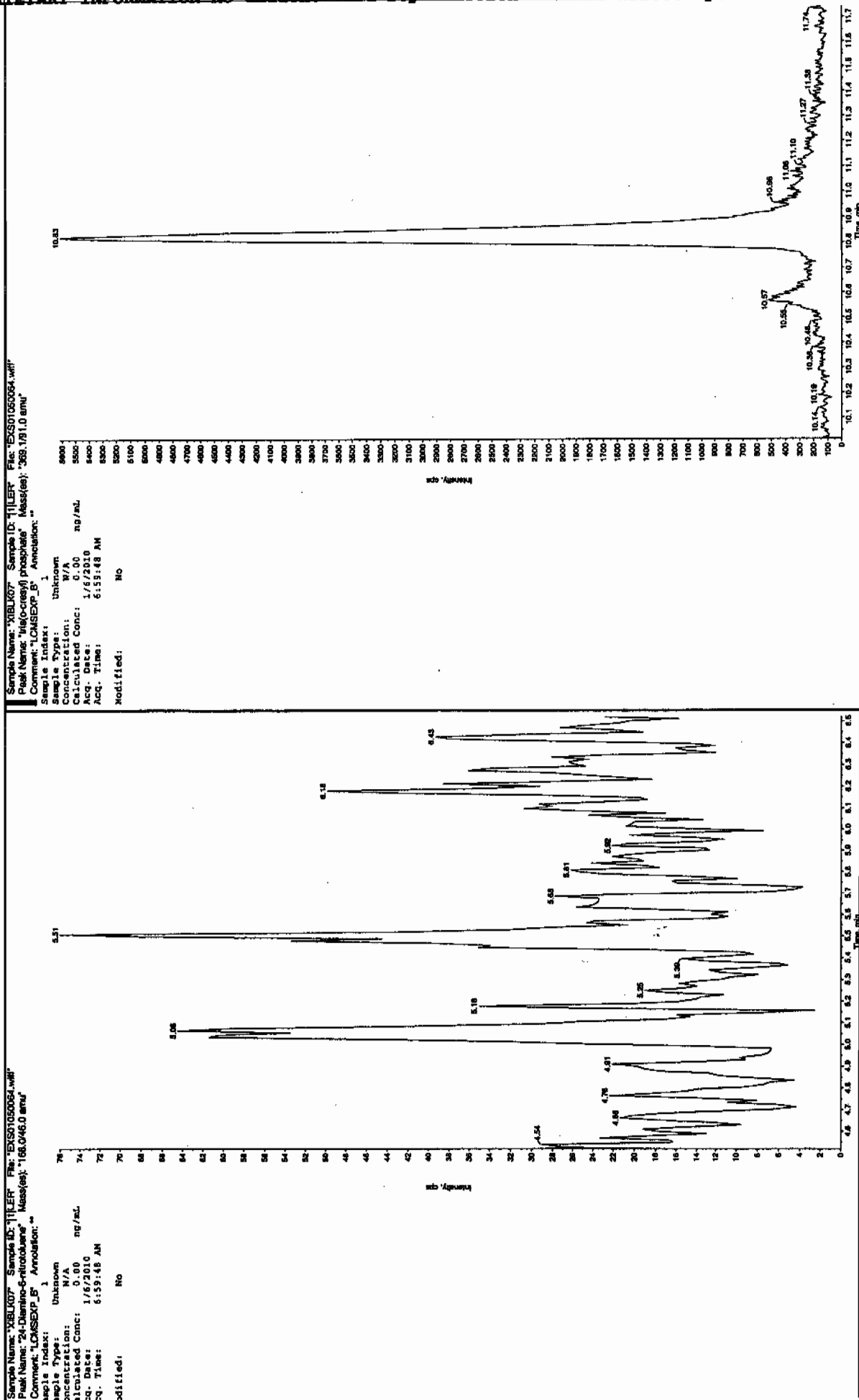
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/6/2010
 Acq. Time: 6:55:48 AM
 Modified: No



Sample Name: "XIBL007" Sample ID: "1111ER" File: "EX501050064.wif"
 Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "166.0746.0 amu"
 Comment: "LCMS/EXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/6/2010
 Acq. Time: 6:59:48 AM
 Modified: No





3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 06-JAN-10 08:02

GEL Data File: EXS01050068.wiff

Instrument ID: LCMSMS

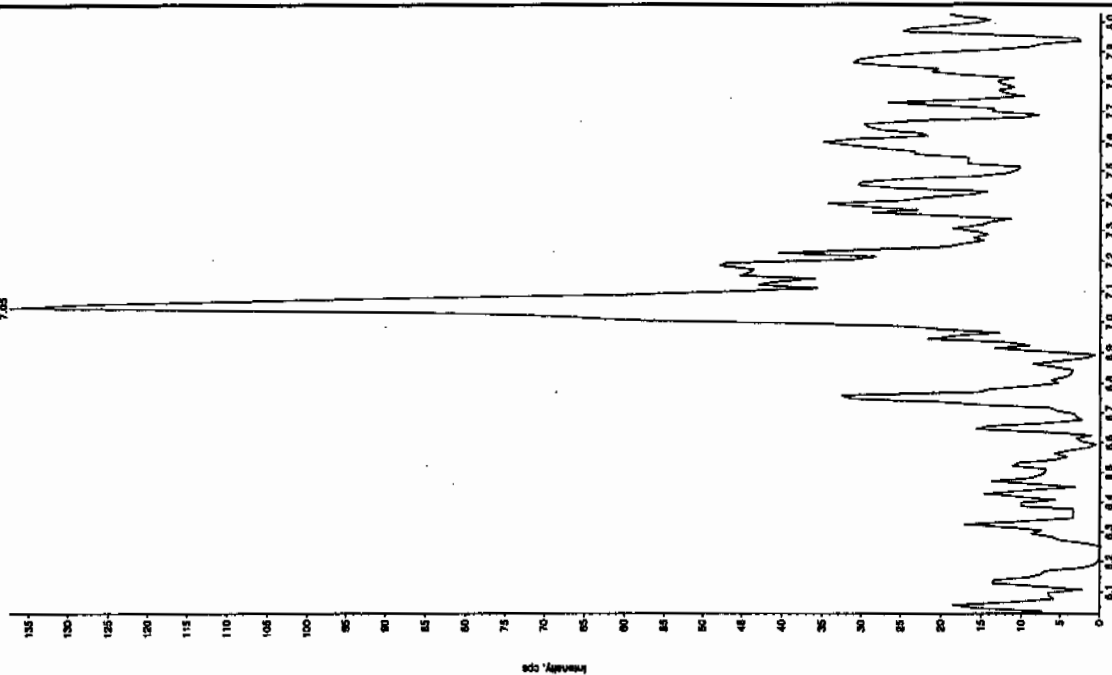
Column: Phenomenex Ultracarb 5u ODS(20)

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

8/2/10

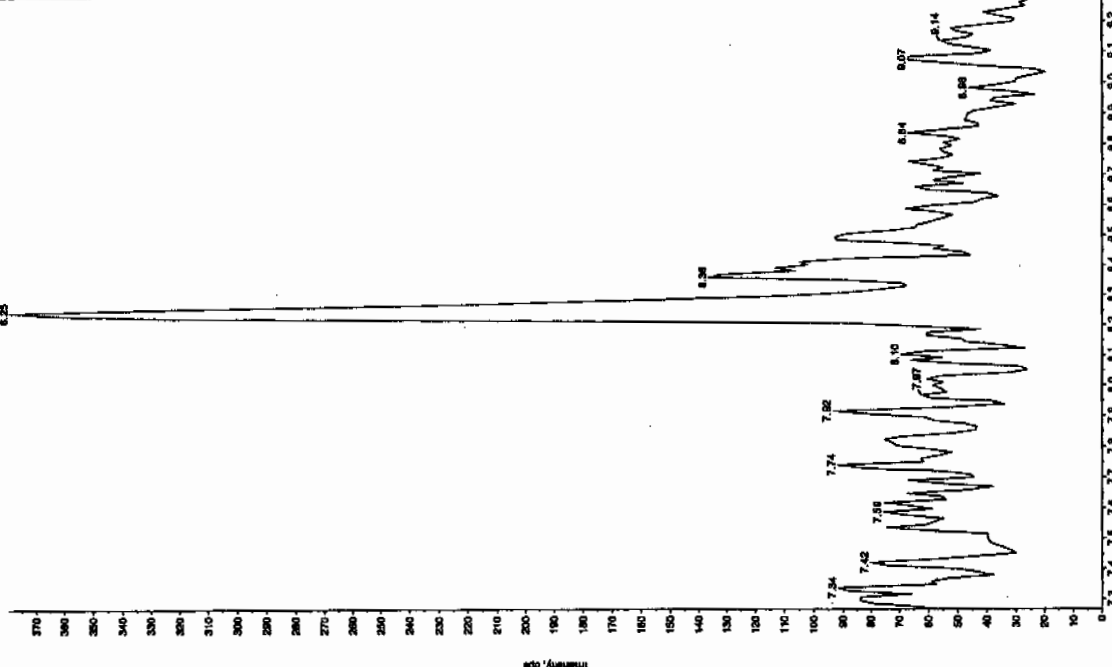
Sample Name: "XBL008" Sample ID: "111ER" File: "EXS01060088.wif"
 Peak Name: "TATB" Mass(es): "257.2504.9 amu"
 Comment: "LONSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 1/6/2010
 Time: 8:02:40 AM
 Modified: No

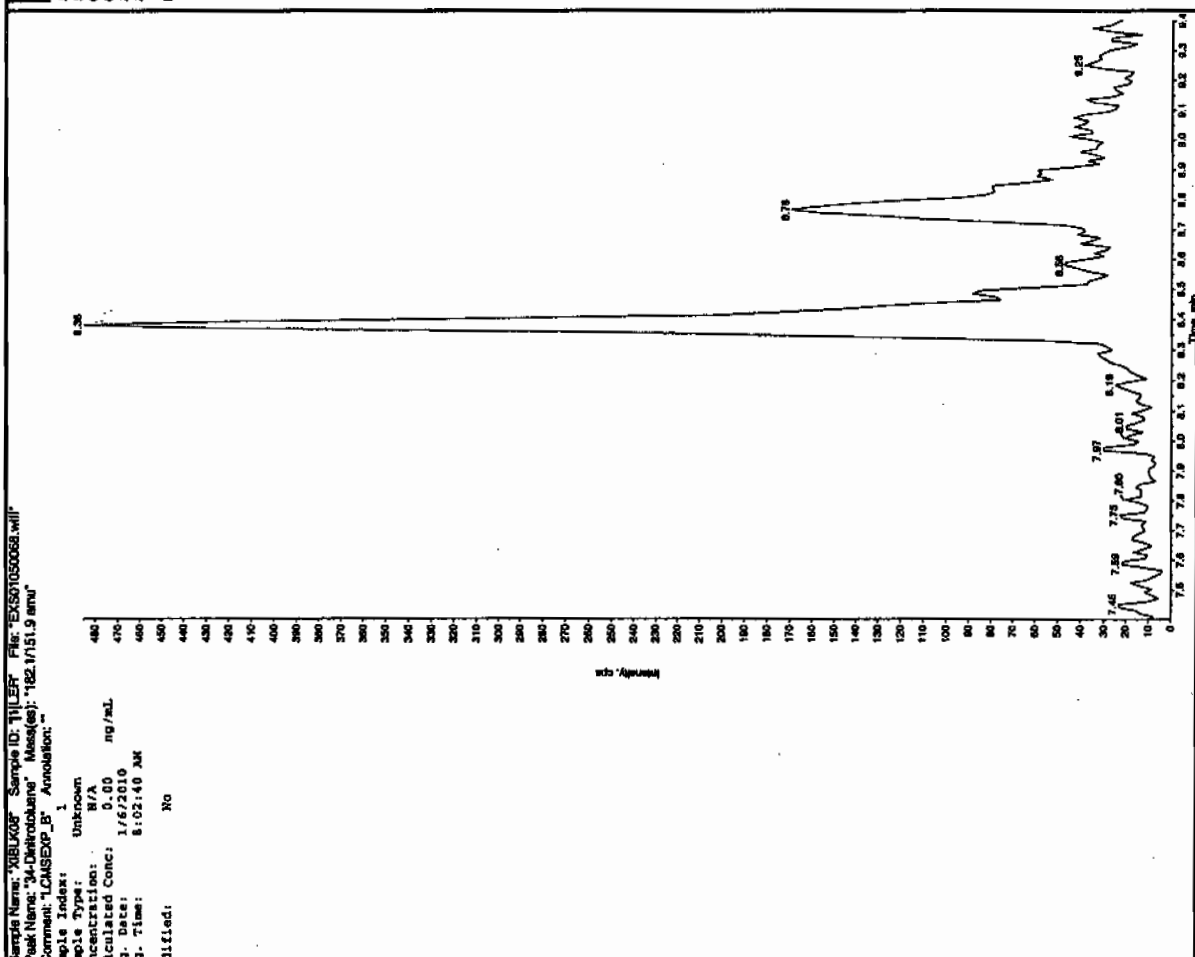
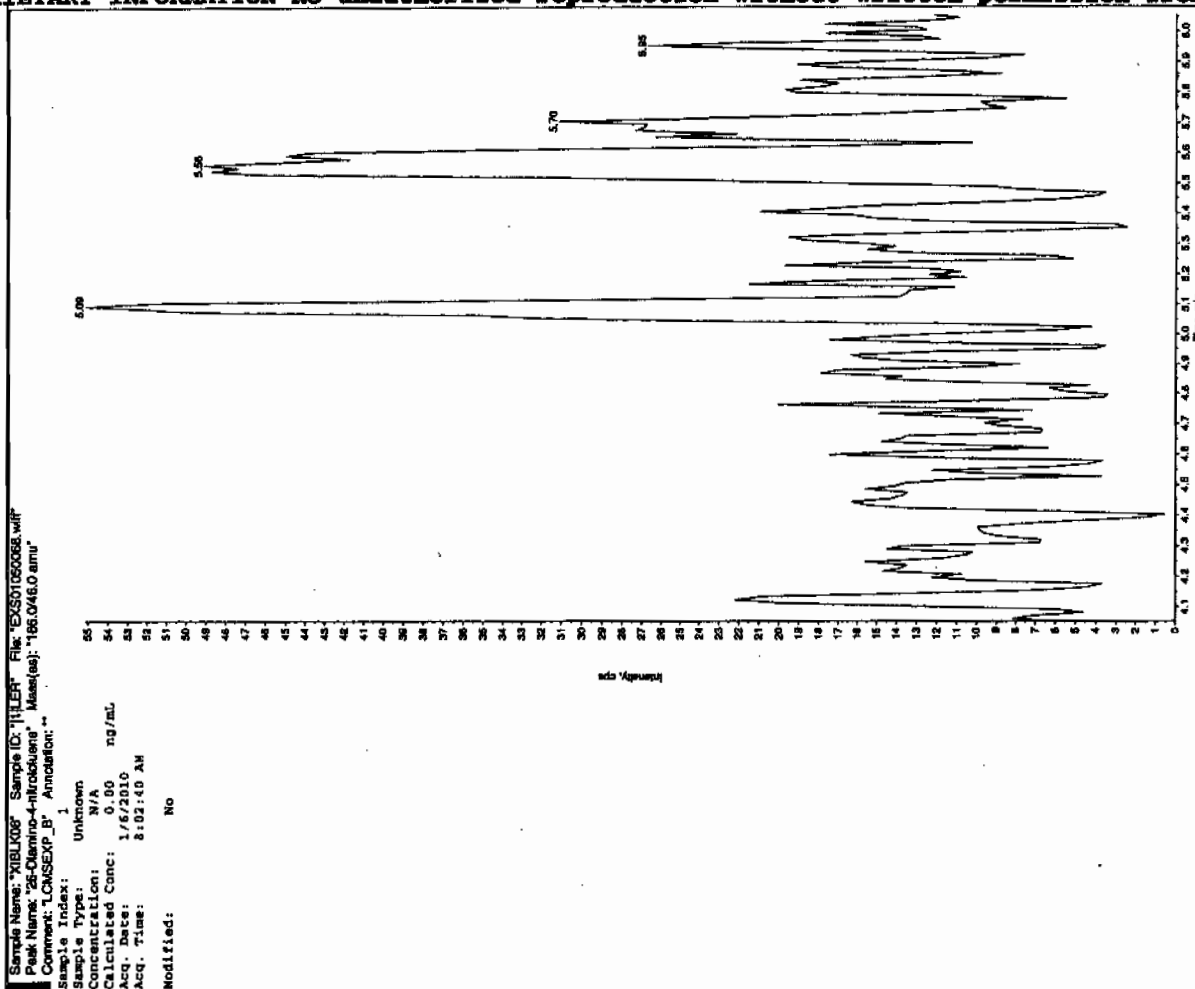


Sample Name: "XBL008" Sample ID: "111ER" File: "EXS01060088.wif"
 Peak Name: "3S-Chloroquine" Mass(es): "182.046.0 amu"
 Comment: "LONSEXP_B" Annotation: "

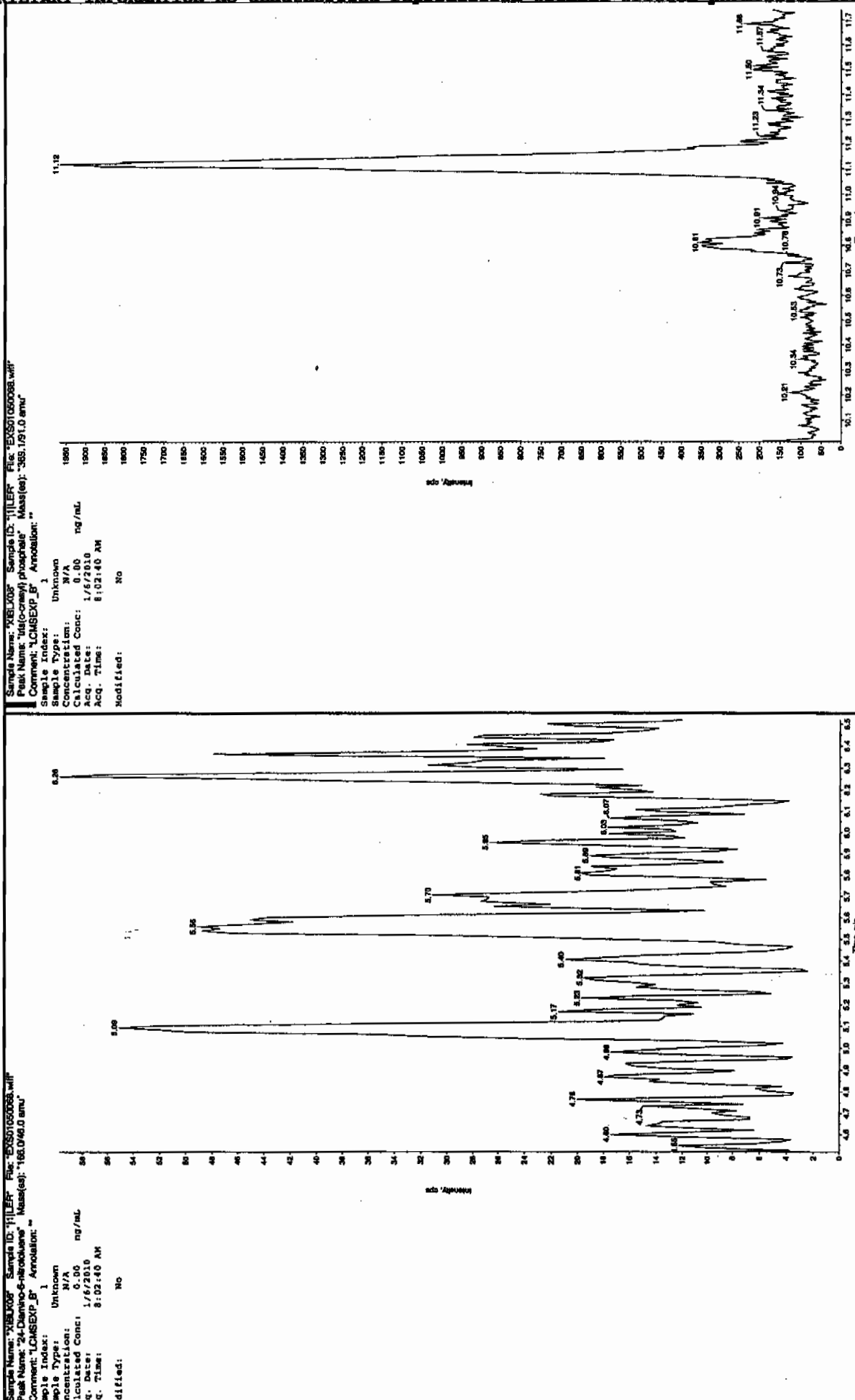
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 1/6/2010
 Time: 8:02:40 AM
 Modified: No



8/2/10



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



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1074

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 06-JAN-10 08:49

GEL Data File: EXS01050071.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

17/11/10
JG

Sample Name: "XBLK00" Sample ID: "JILER" File: "EXS01050071.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

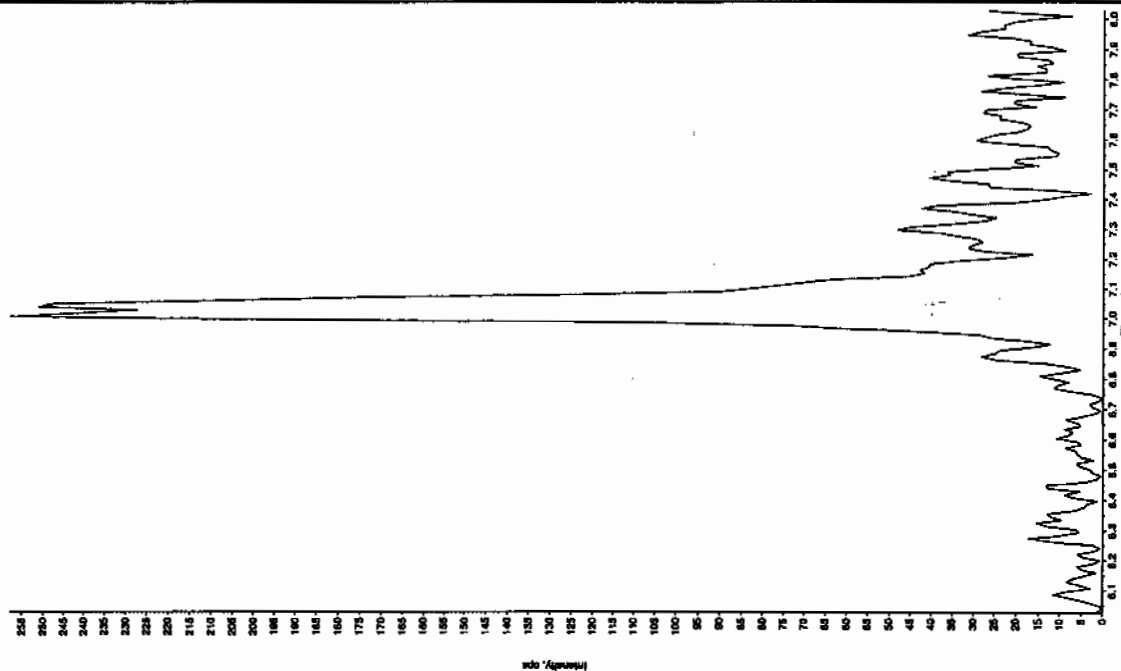
Concentration: 0.00 ng/mL

Calculated Conc: 1/6/2010

Acq. Date: 8:49:45 AM

Acq. Time: 8:49:45 AM

Modified: No



Sample Name: "XBLK00" Sample ID: "JILER" File: "EXS01050071.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

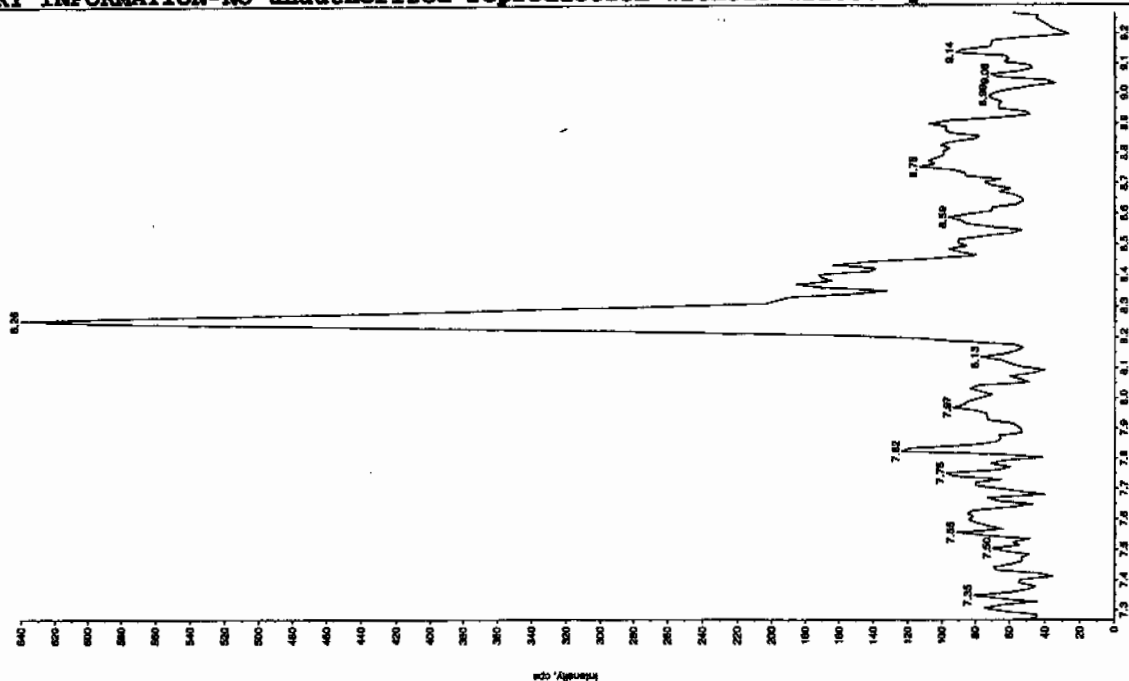
Concentration: 0.00 ng/mL

Calculated Conc: 1/6/2010

Acq. Date: 8:49:45 AM

Acq. Time: 8:49:45 AM

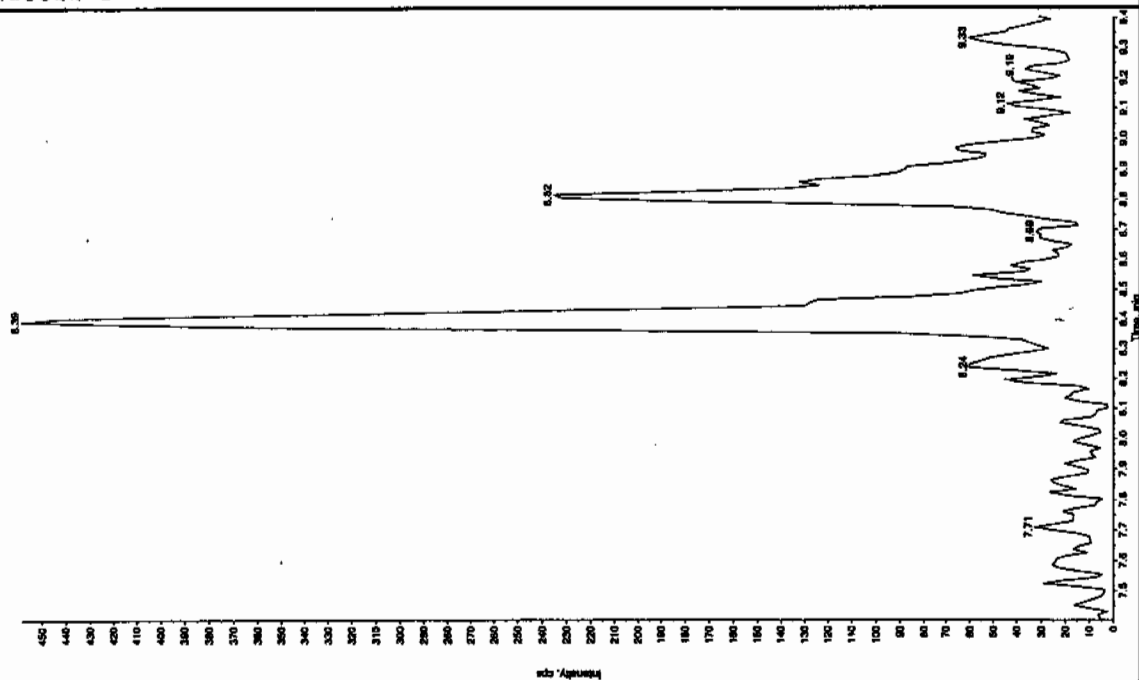
Modified: No



thm 01/08/10

Sample Name: "XBLX08" Sample ID: "TILER" File: "ES01060071.wif"
 Peak Name: "34-Oxotroglutamate" Mass(es): "182.1751.9 amu"
 Comment: "LOMSEXP JP" Annotation: "

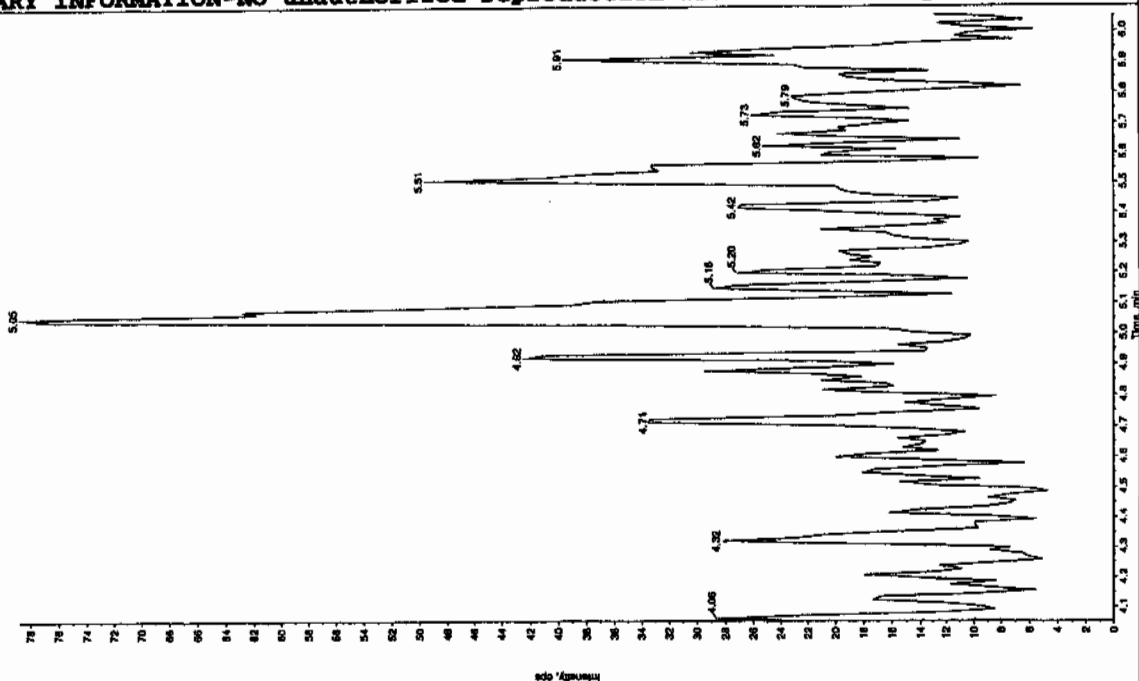
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 8:49:46 AM
 Modified: No

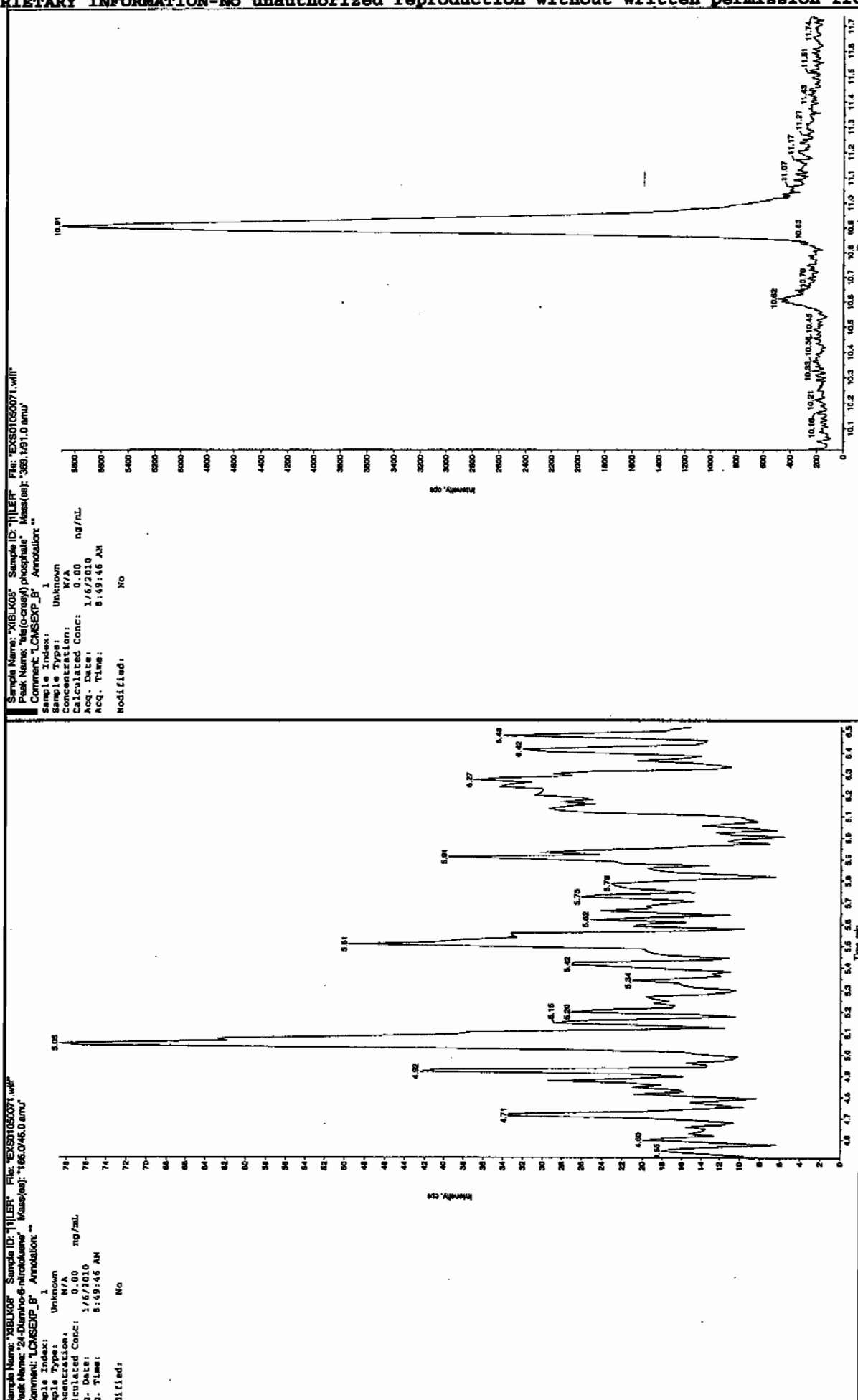


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLX08" Sample ID: "TILER" File: "ES01060071.wif"
 Peak Name: "28-Diamino-4-troglutamate" Mass(es): "168.0463.0 amu"
 Comment: "LOMSEXP JP" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 8:49:46 AM
 Modified: No





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

Nairb.ref

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

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

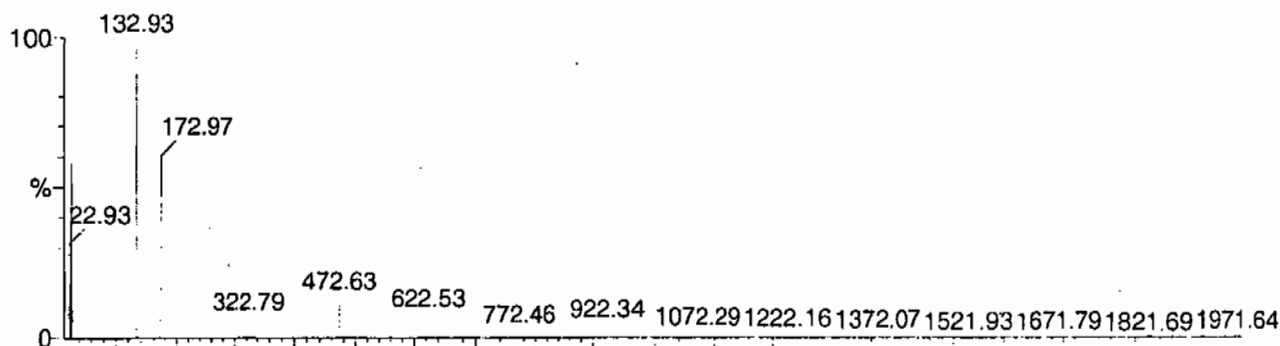
Calibration Report - MS1 Static

Page 1 of 1

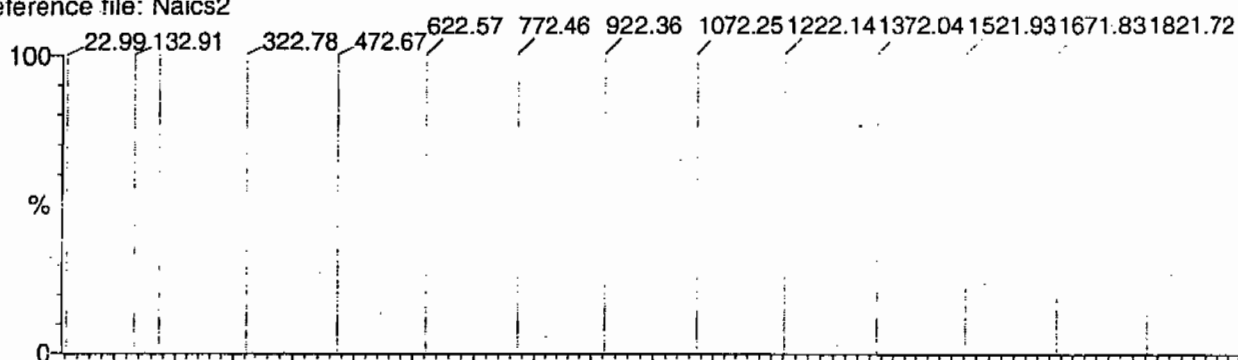
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

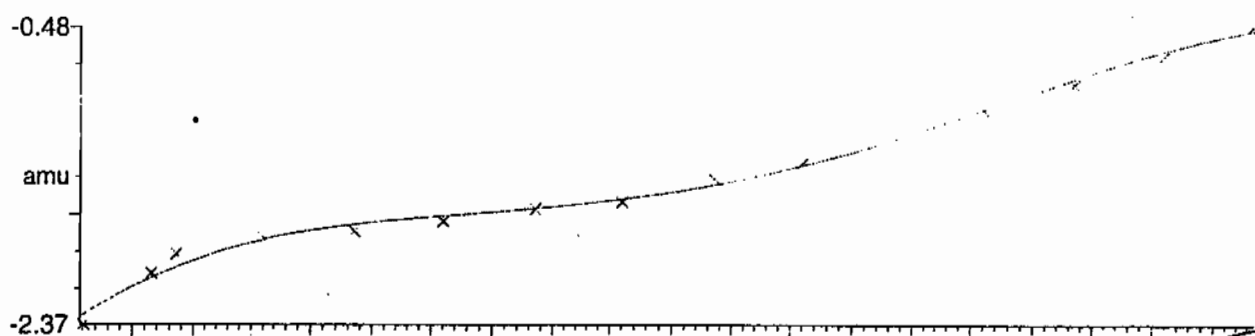
15 matches of 15 tested references



Reference file: Naics2

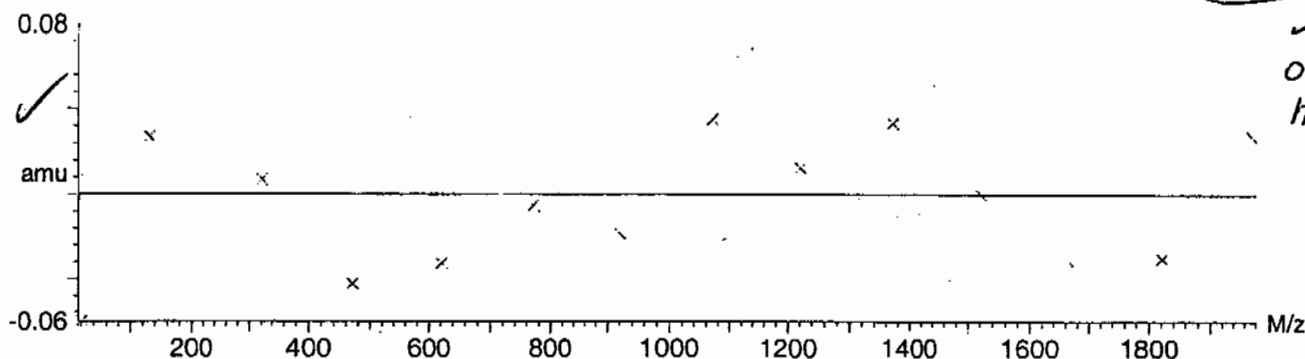


Mass difference (Raw - Ref mass)



Residuals

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



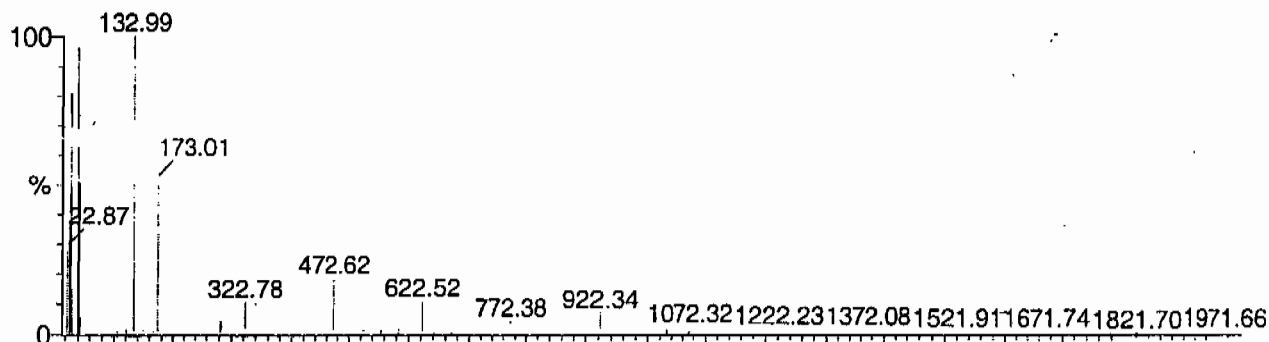
Calibration Report - MS1 Scanning

Page 1 of 1

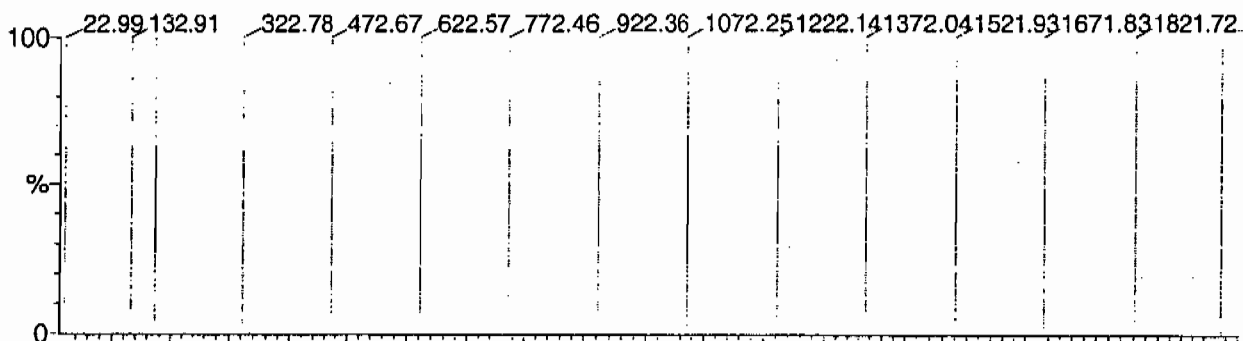
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

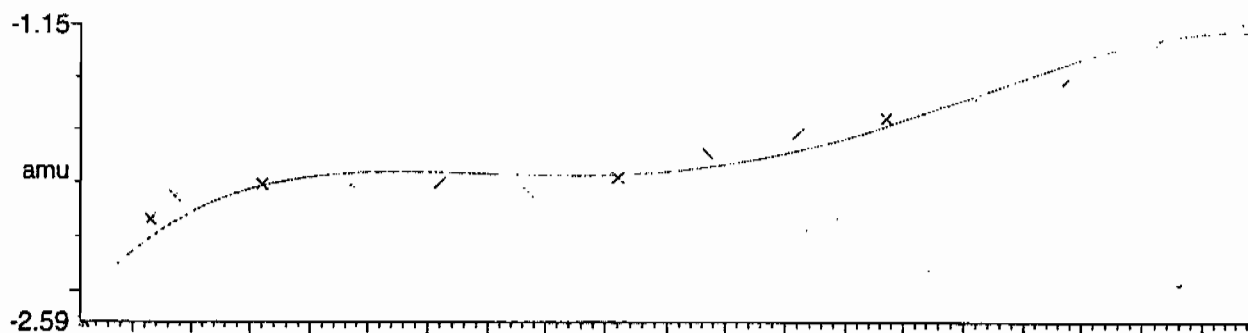
15 matches of 15 tested references



Reference file: Naics2

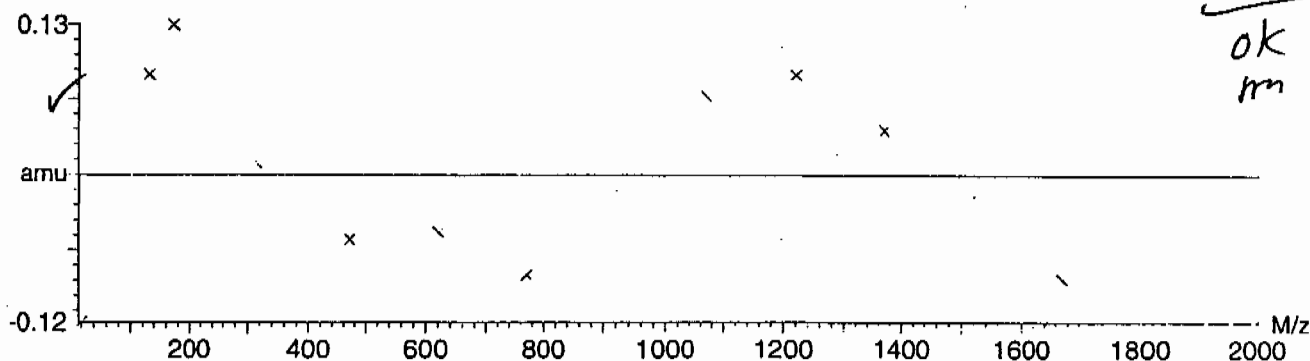


Mass difference (Raw - Ref mass)



Residuals

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



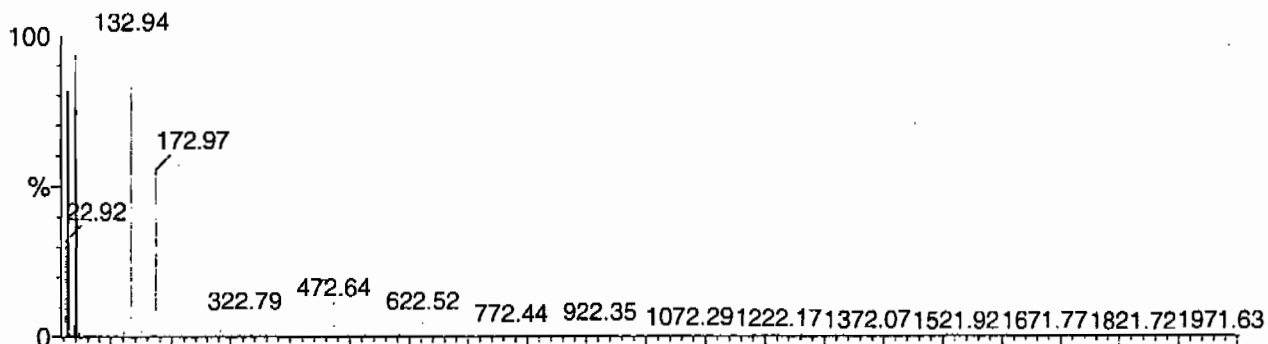
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

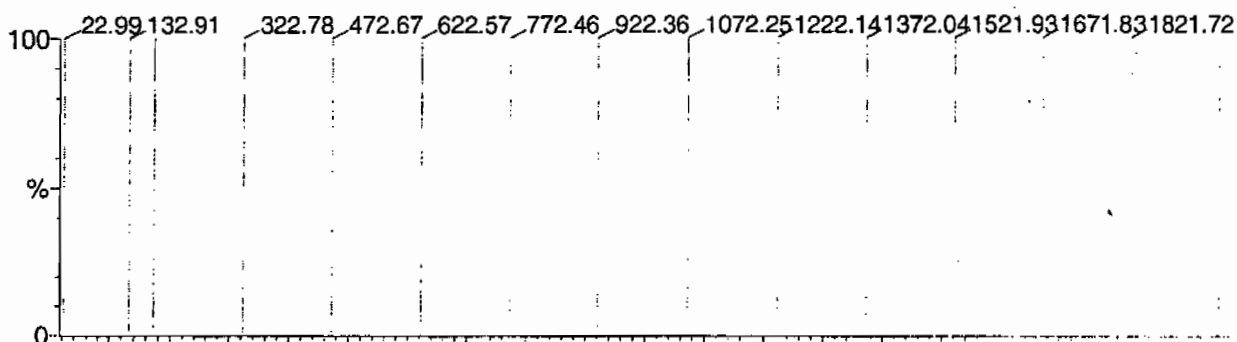
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

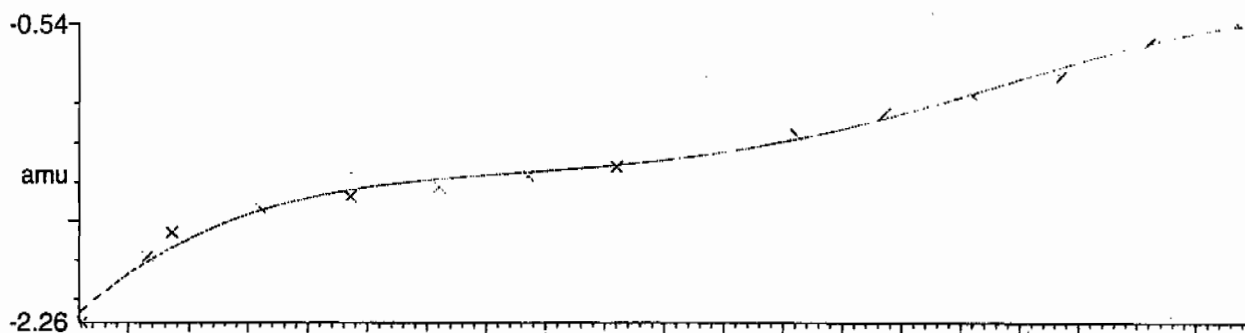
15 matches of 15 tested references



Reference file: Naics2

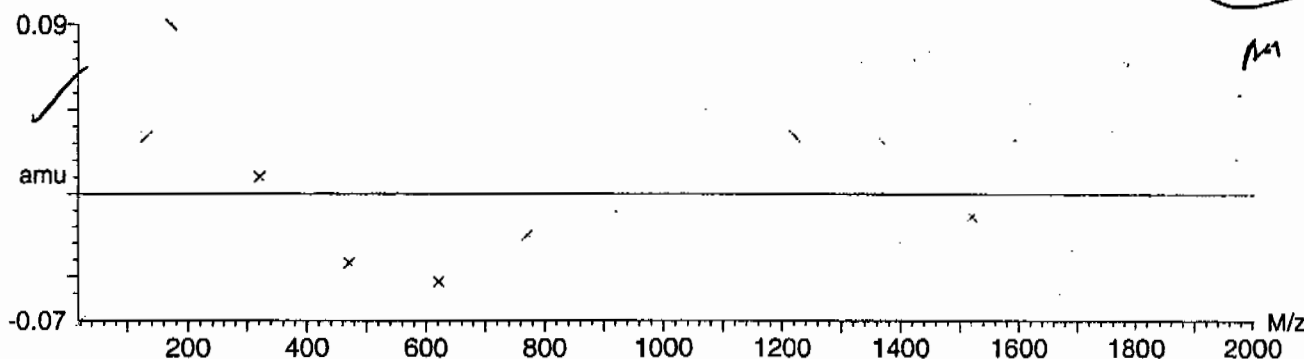


Mass difference (Raw - Ref mass)



Residuals

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



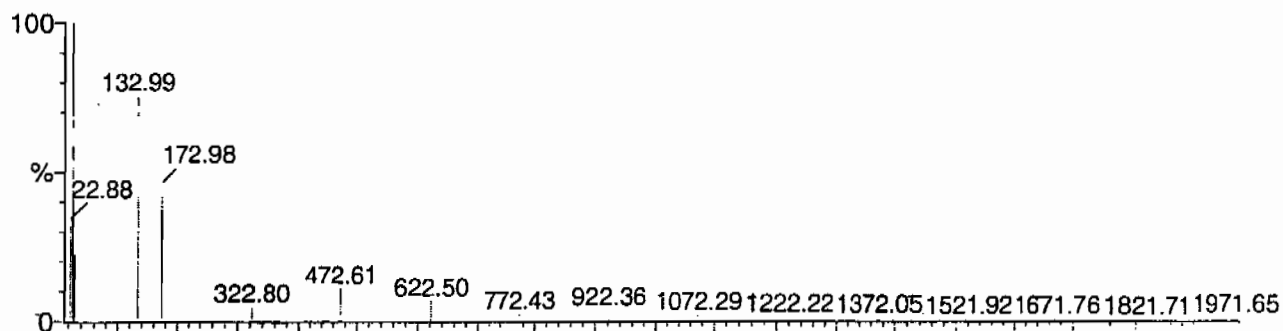
Calibration Report - MS2 Static

Page 1 of 1

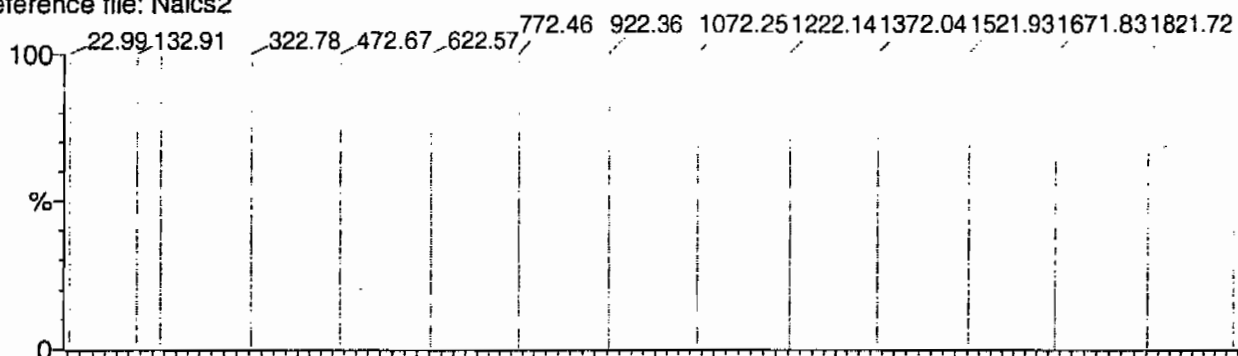
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

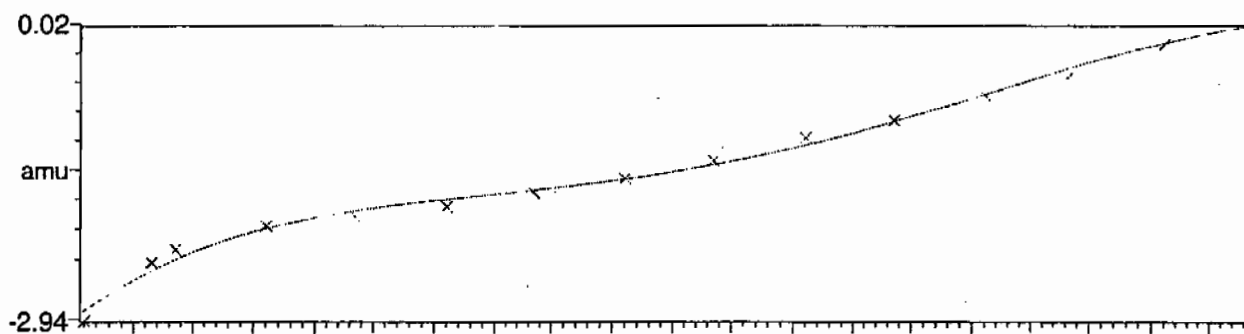
15 matches of 15 tested references



Reference file: Naics2

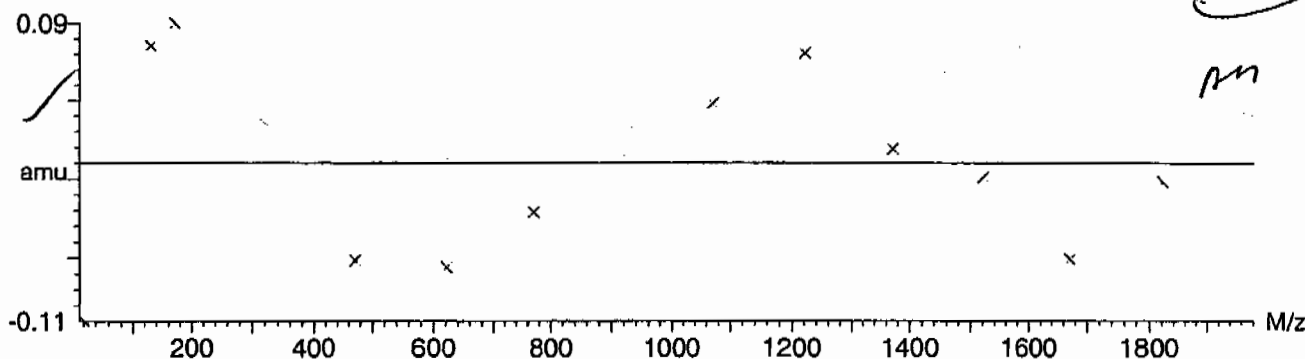


Mass difference (Raw - Ref mass)



Residuals

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



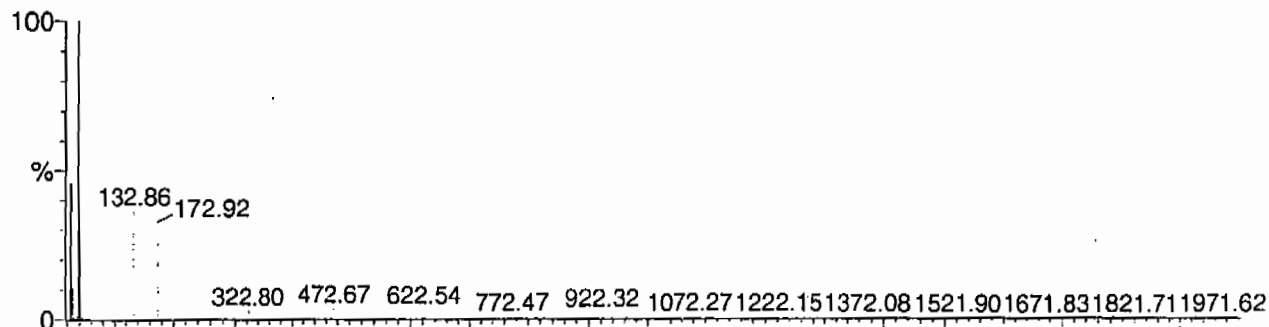
Calibration Report - MS2 Scanning

Page 1 of 1

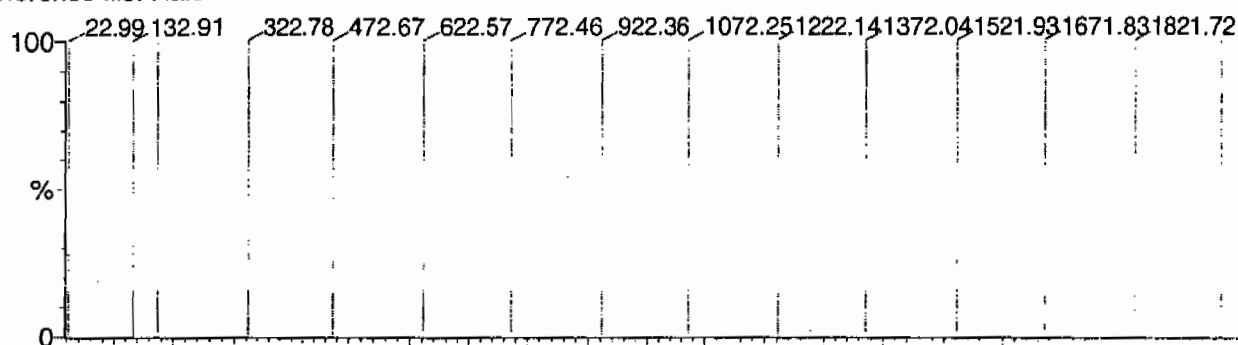
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

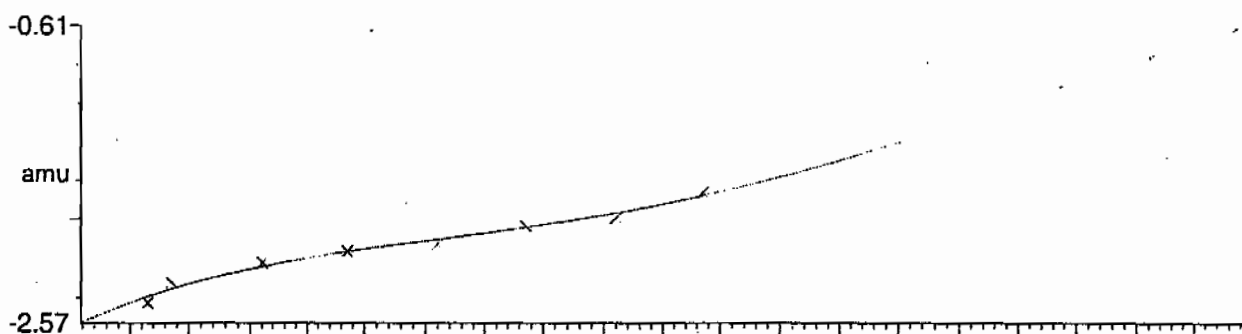
14 matches of 15 tested references



Reference file: Naics2

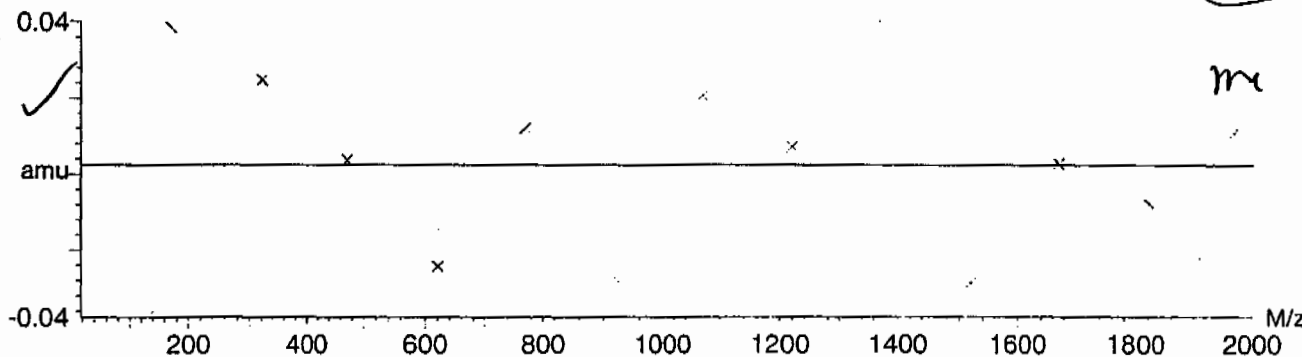


Mass difference (Raw - Ref mass)



Residuals

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



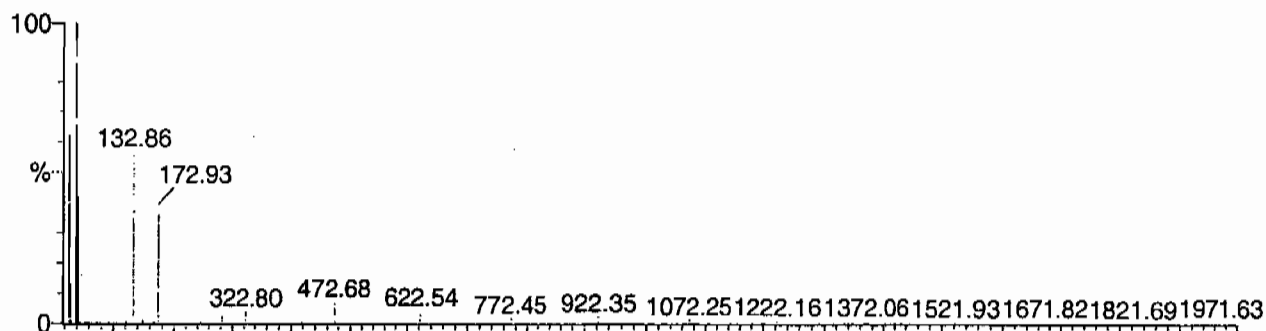
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

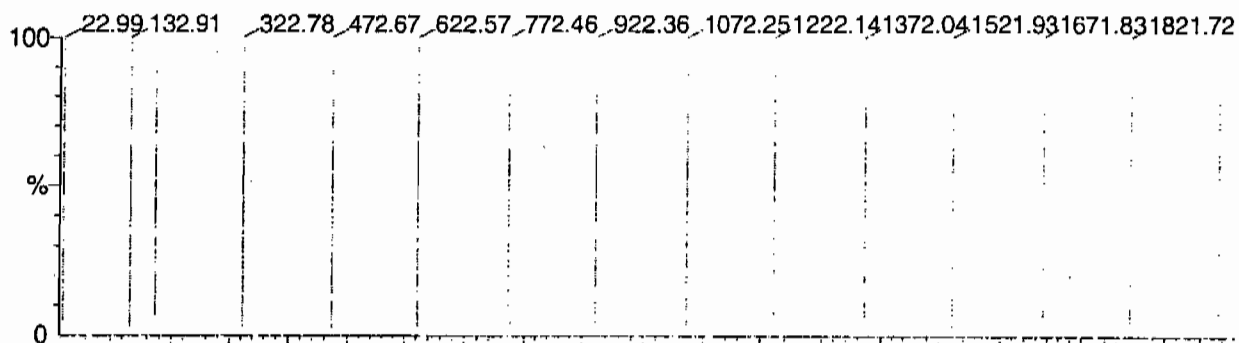
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

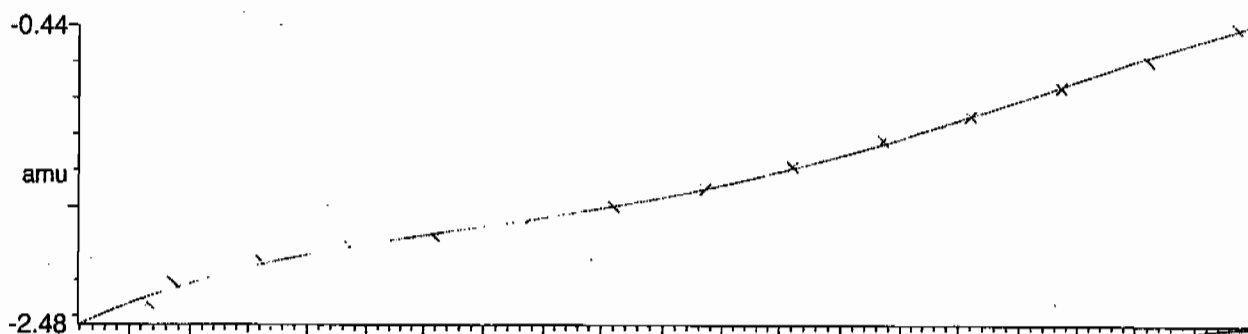
14 matches of 15 tested references



Reference file: Naics2

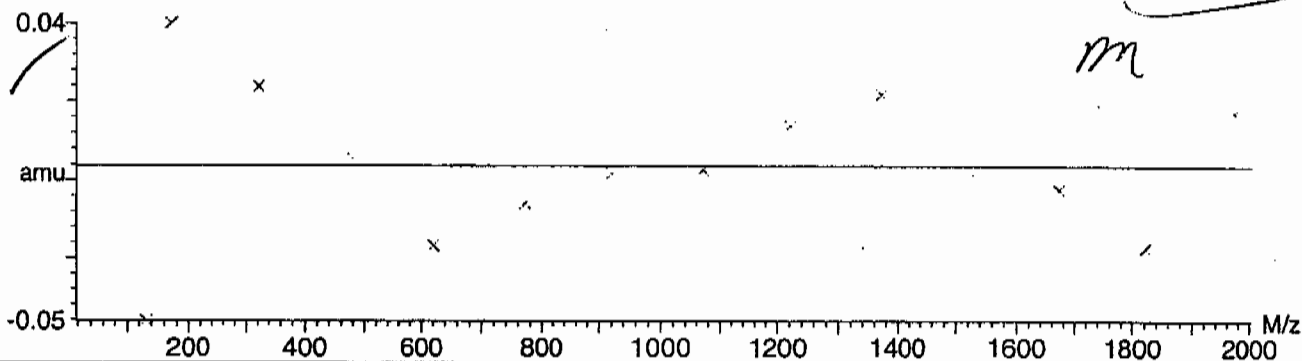


Mass difference (Raw - Ref mass)



Residuals

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

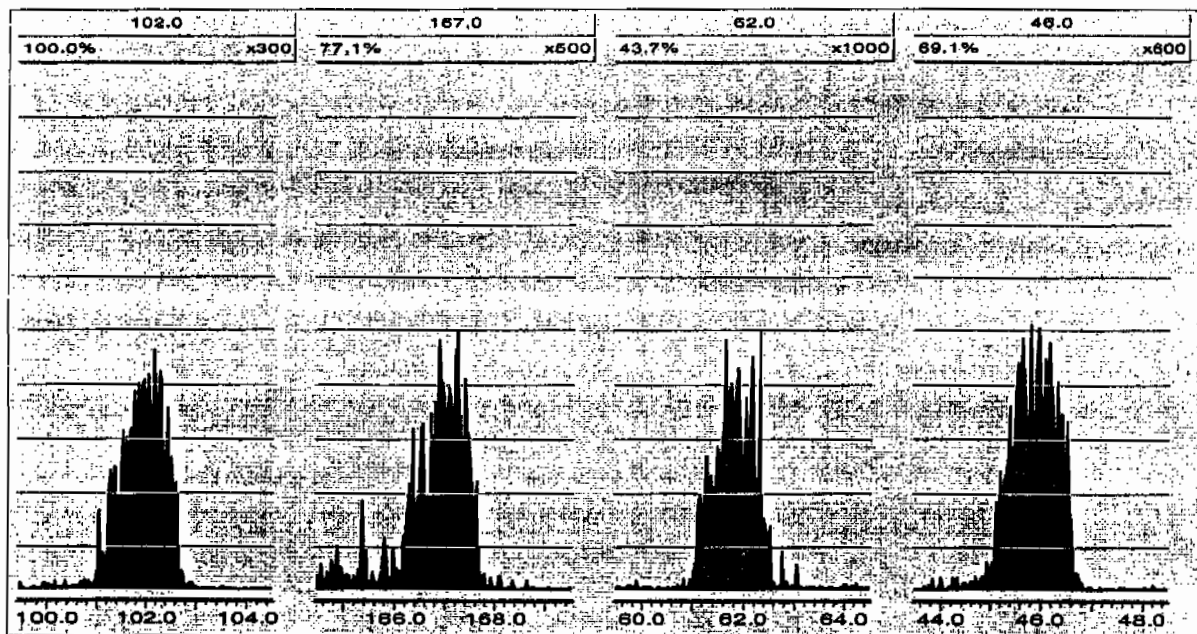


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PROVACQ\UDB\explosives04.IPR

Printed : Tue Jan 05 12:59:20 2010

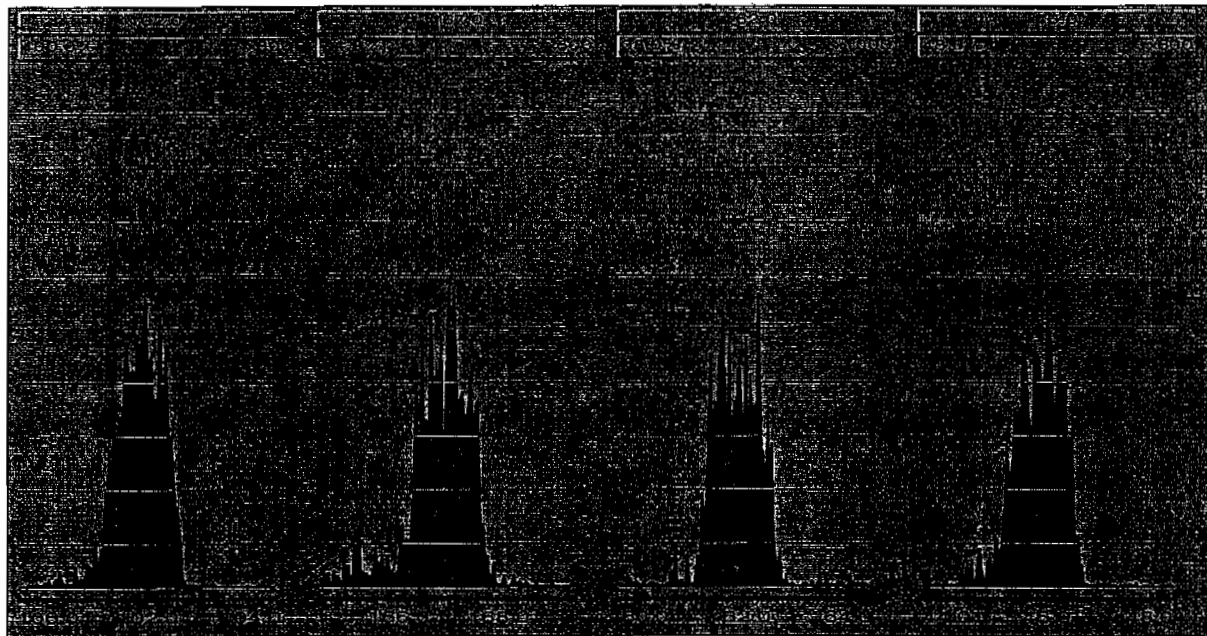


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQUDB\explosives04.ipr

Printed : Fri Jan 08 17:13:08 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

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) #
			2784.393	11.998	16081.533	17.529
Upper Limit			3619.7109	12.498	20905.9929	18.029
Lower Limit			1949.0751	11.498	11257.0731	17.029
MB for batch 937040	07-jan-10 17:58	EXP0105096a	3235.88	11.972	17910	17.466
LCS for batch 937040	07-jan-10 18:27	EXP0105097a	3327.49	11.971	18221.9	17.465
RE12-10-7606	08-jan-10 00:51	EXP0105110a	3049.81	11.944	18734.8	17.456
RE12-10-7607	08-jan-10 01:20	EXP0105111a	2987.72	11.946	17652.6	17.465
RE12-10-7596	08-jan-10 01:50	EXP0105112a	3247.24	11.972	18419.7	17.466
RE12-10-7597	08-jan-10 02:19	EXP0105113a	3043.89	11.946	18095.3	17.466
RE12-10-7600	08-jan-10 03:18	EXP0105115a	3295.45	11.972	18496	17.444
RE12-10-7602	08-jan-10 04:17	EXP0105117a	3330.29	11.97	18362.9	17.455
RE12-10-7599	08-jan-10 04:47	EXP0105118a	2972.8	11.972	16982.4	17.465

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			2929.528	11.985	16886.317	17.3
Upper Limit			3808.3864	12.485	21952.2121	17.8
Lower Limit			2050.6696	11.485	11820.4219	16.8
RE12-10-7608	08-jan-10 23:38	EXP0108014a	2946.7	11.998	16097.7	17.291
RE12-10-7601	09-jan-10 00:08	EXP0108015a	3002.45	11.972	18438.6	17.291
RE12-10-7598	09-jan-10 00:37	EXP0108016a	3286.82	11.972	18907.5	17.291
RE12-10-7603	09-jan-10 01:07	EXP0108017a	2514.59	11.972	17958.7	17.291

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

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

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

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

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

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: RE12-10-7606

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519001

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105110a

Date Analyzed: 08-JAN-10 00:51

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Sample: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105110a

Date: 08-Jan-2010

Time: 00:51:14

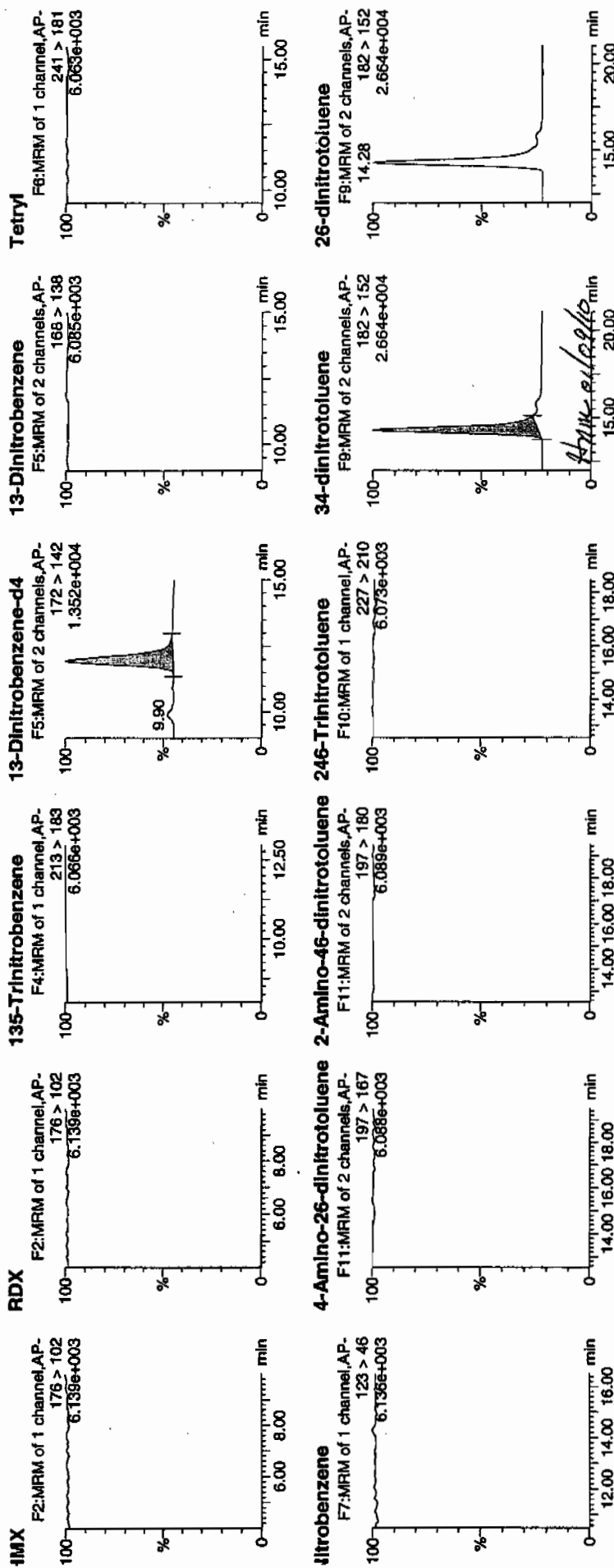
D: 243519001

/lat: 3:2,F

10/10

937041 / 21

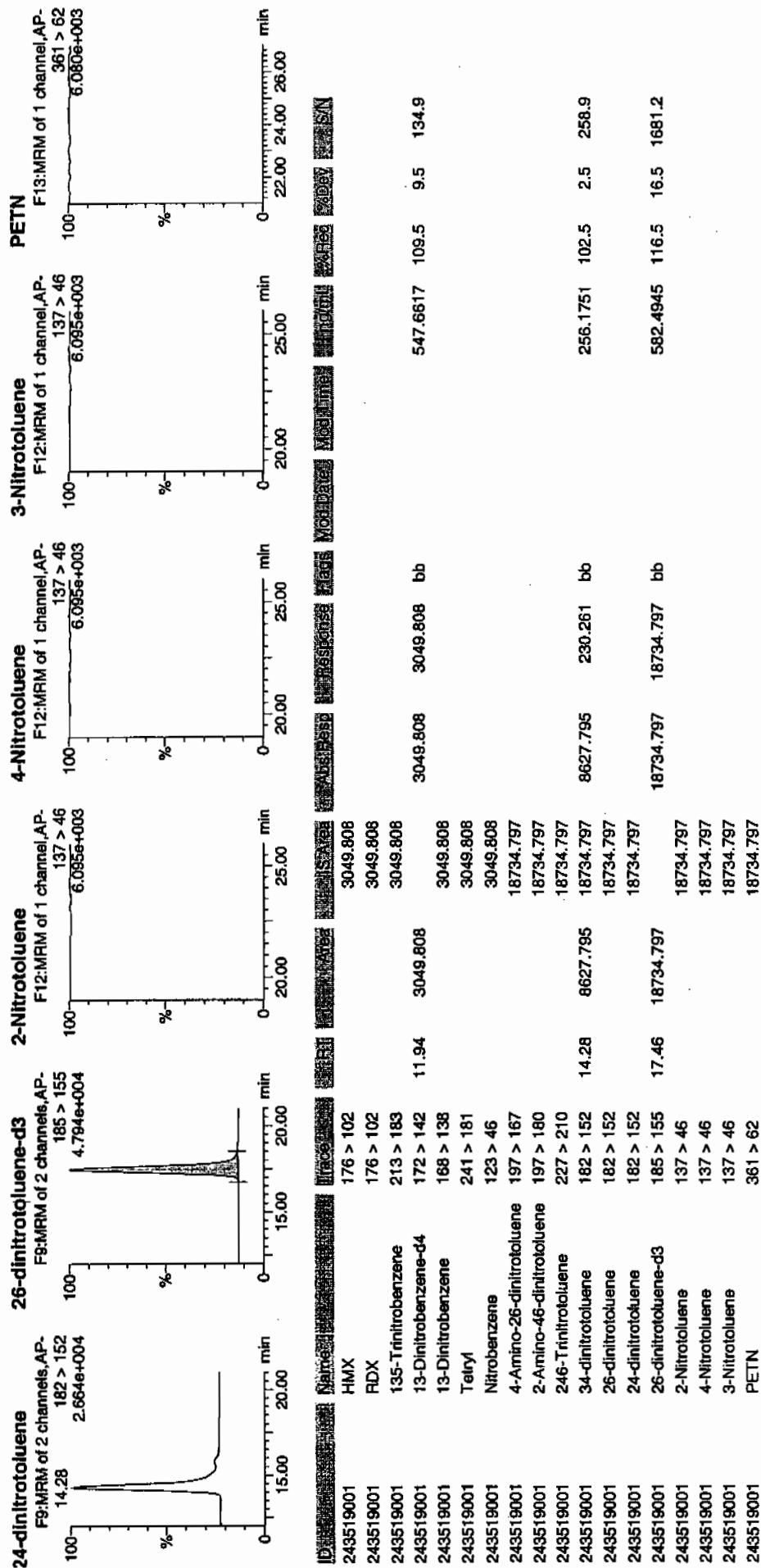
Page 158 of 595



Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7606

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519001

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050054.wiff

Date Analyzed: 06-JAN-10 04:22

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

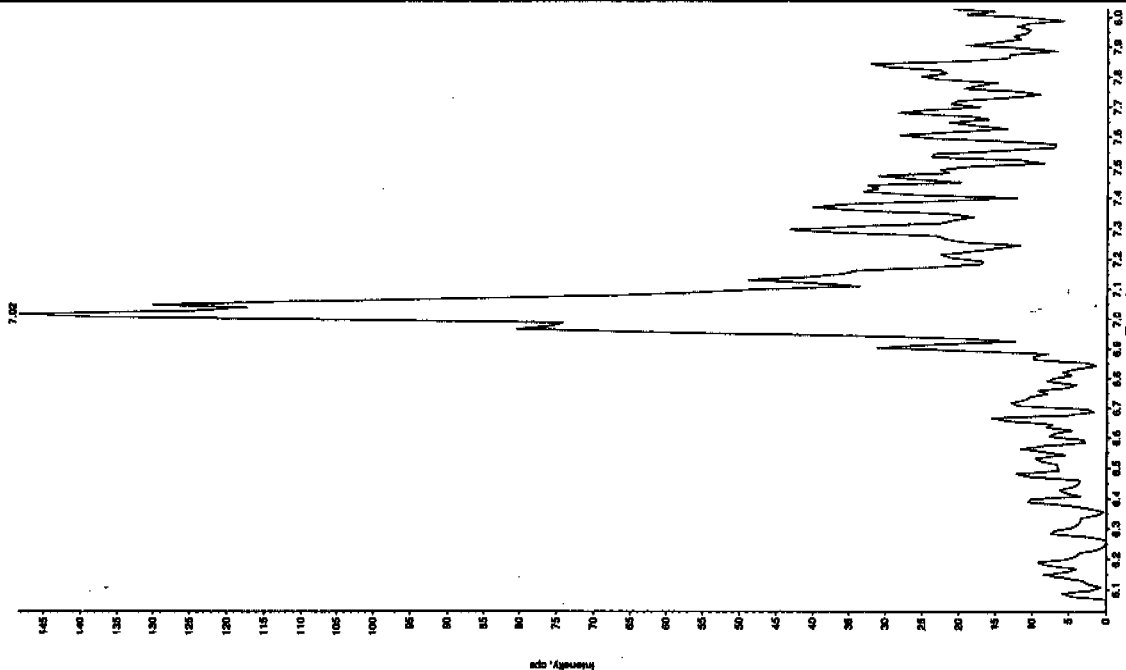
*Concentration =

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

1/7/10
Daw

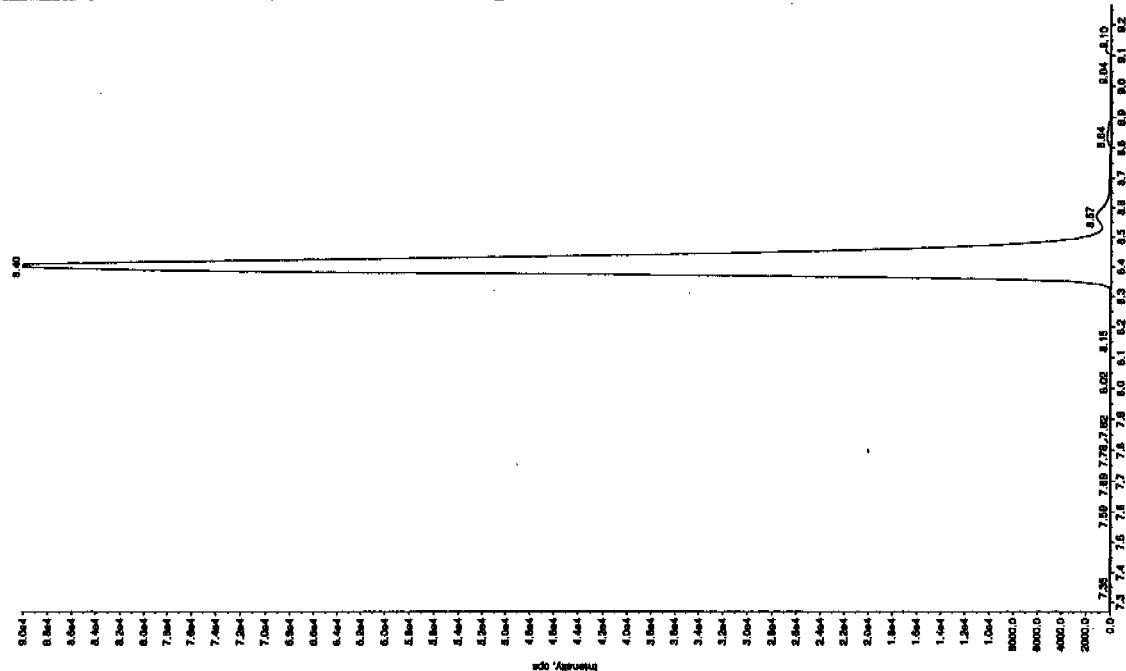
Sample Name: "243519001" Sample ID: "83704121" File: "EX501050054.will"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCX632125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 4:22:45 AM
Modified: No



Sample Name: "243519001" Sample ID: "83704121" File: "EX501050054.will"
Peak Name: "35-Dichloroethyl" Mass(es): "182.0460 amu"
Comment: "LCX632125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 mg/mL
Acq. Date: 1/6/2010
Acq. Time: 4:22:45 AM
Modified: No

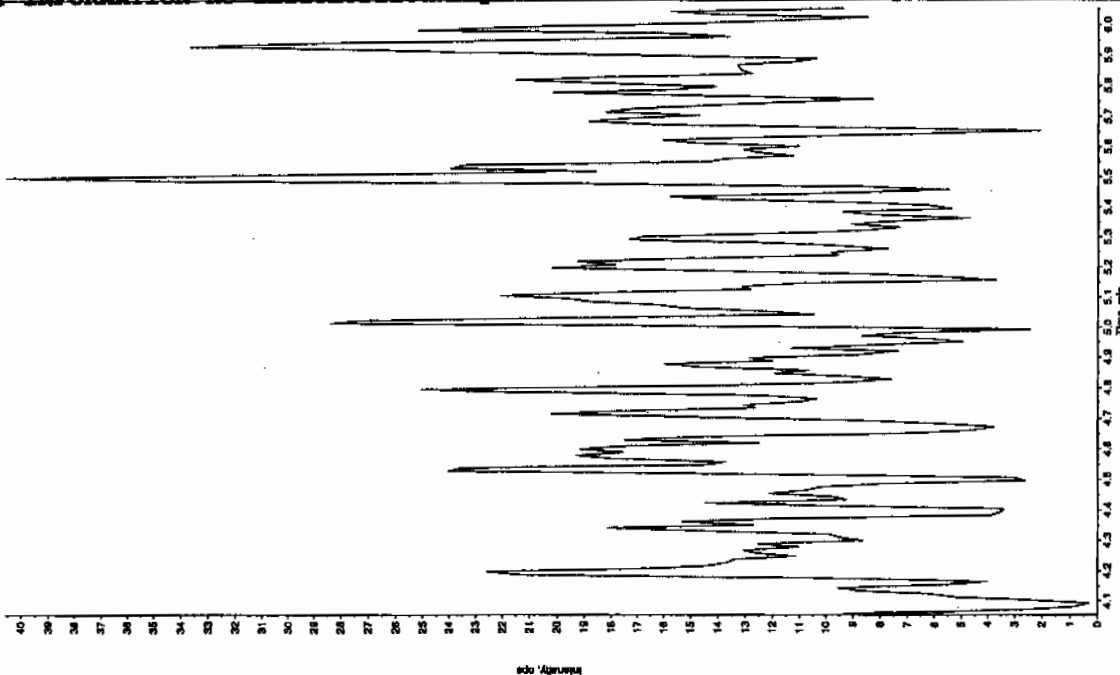
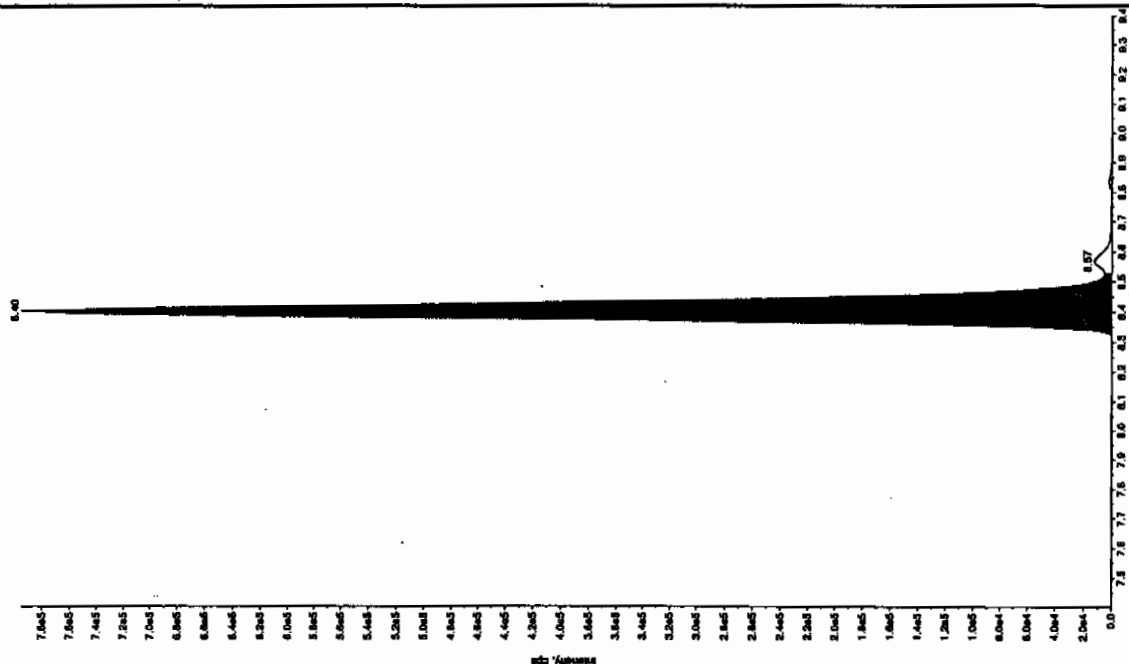


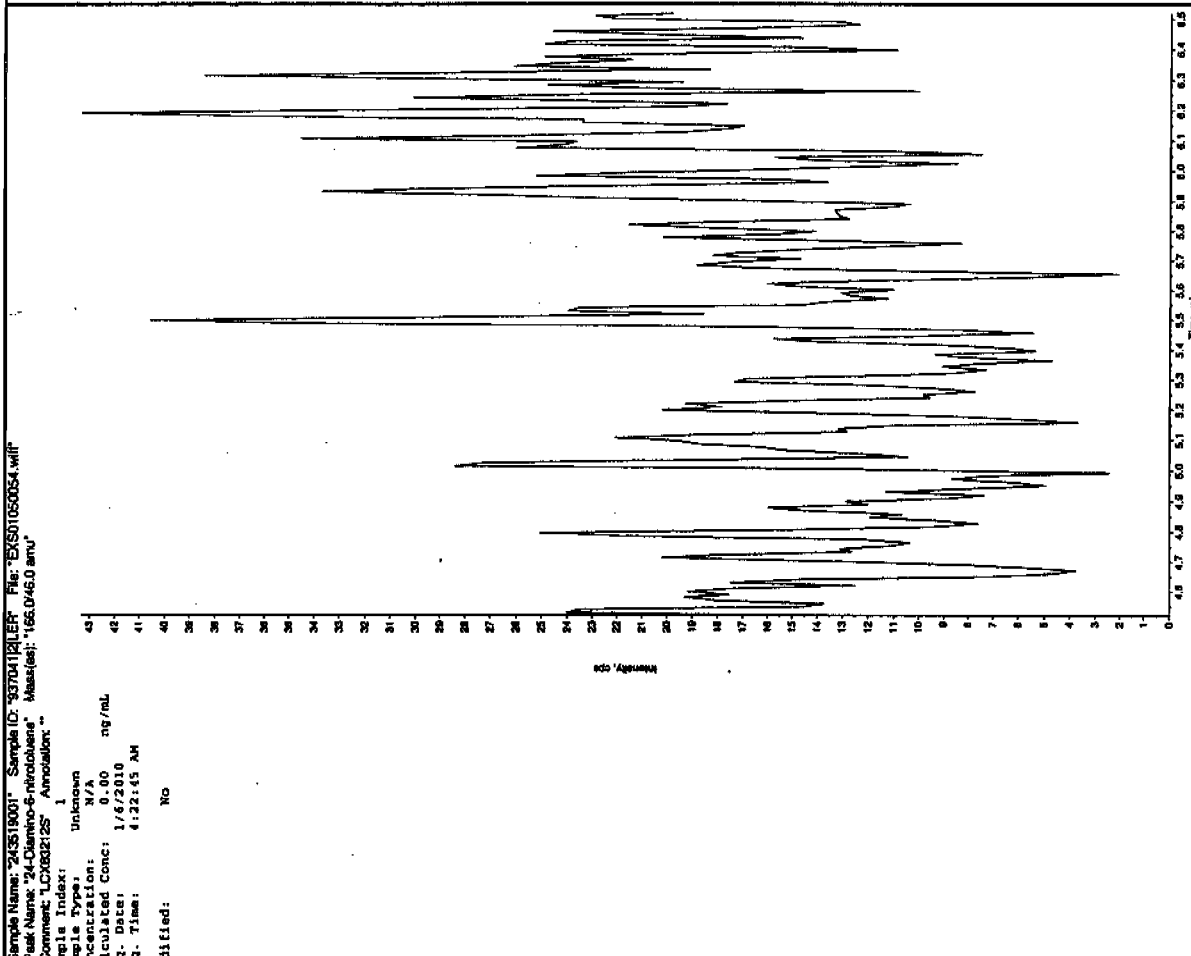
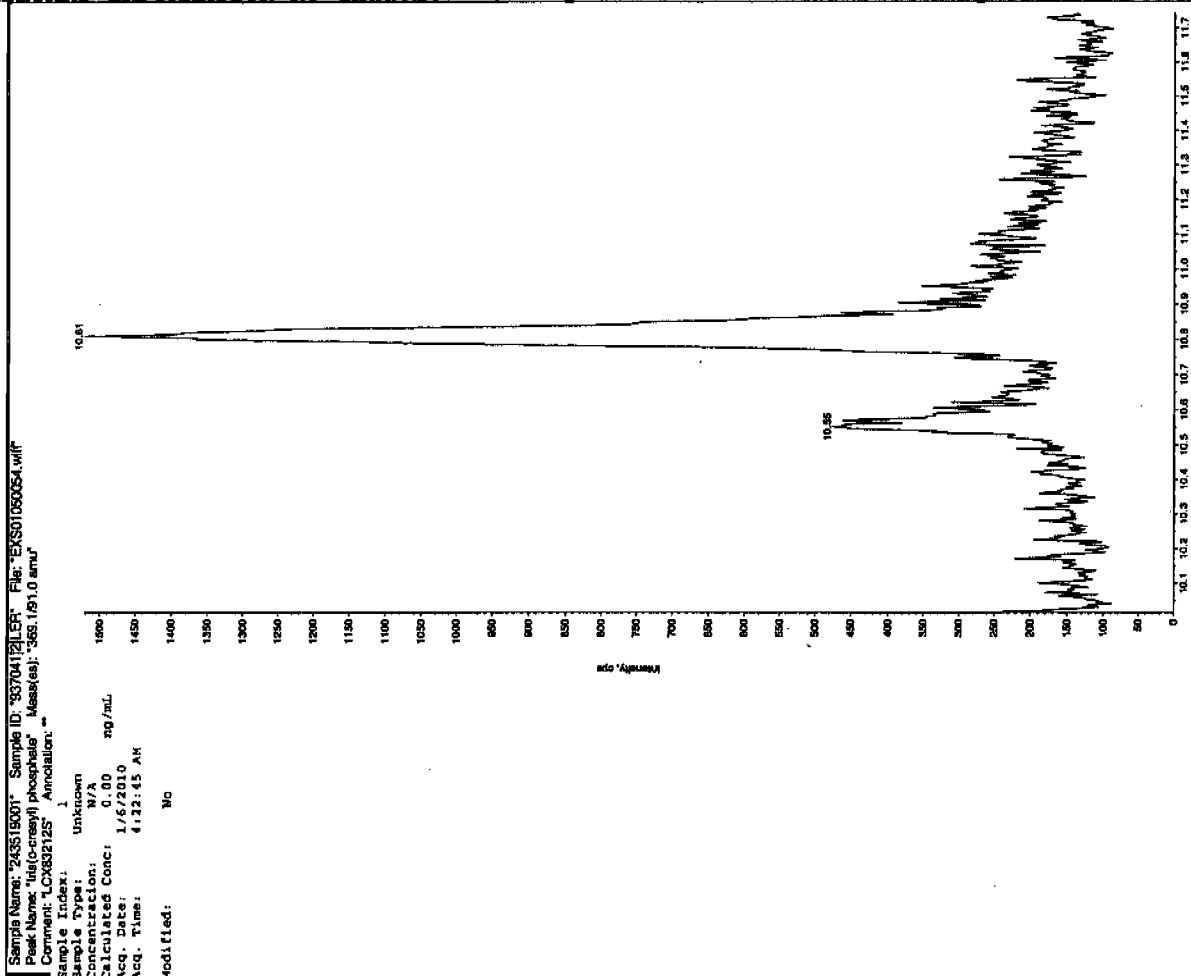
IEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Ames 1/8/10

Sample Name: "243519001" Sample ID: "9370412|LER" File: "EXS01050054.will"
Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/161.9 amu"
Comment: "LCX832125" Annotation: "

Sample Index:	1	Unknown
Sample Type:	N/A	
Sample Concentration:	245	ng/mL
Incubated Conc:	176720.0	
q.q. Date:	4/22/2010	
q.q. Time:		
Modified:	No	
Algorithms:	IntelliQuan - IQA	
n.n. Peak Height:	1460.00	cps
n.n. Peak Width:	3.00	sec
Sweeping Width:	3	points
Window:	15.0	sec
Expected RT:	8.40	min
Relative RT:	No	
Location:	Valley	
Retention Time:	3.06	min
Height:	77907.952	cps
Start Time:	8.30	min
End Time:	8.53	min





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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7607

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519002

Sample Amount 2

Moisture: 6.2

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105111a

Date Analyzed: 08-JAN-10 01:20

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Printed: Fri Jan 08 08:09:43 2010, Page 75 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PRO1010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Sample Name: C:\MASSLYNX\NEW_EXP\PRO1Data\EXP0105111a

Date: 08-Jan-2010

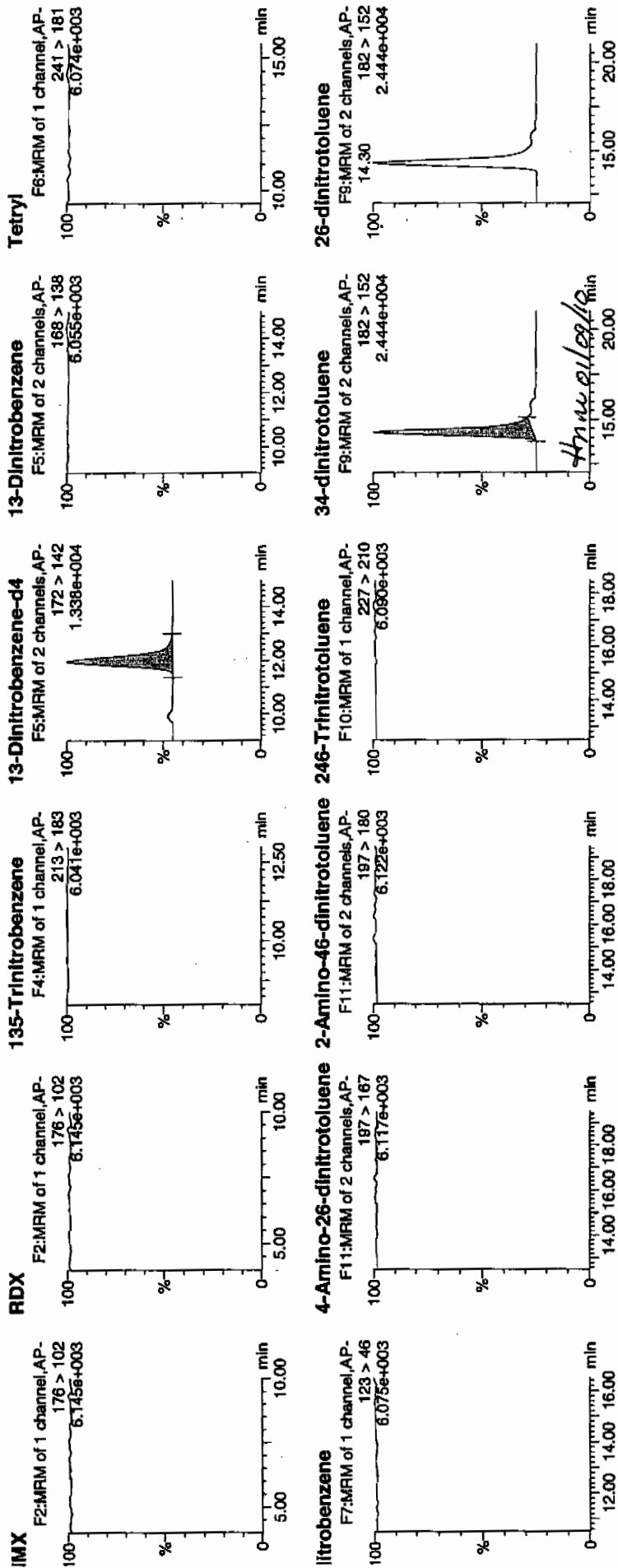
Time: 01:20:41

ID: 243519002

File: 3:3.A

1/8/10

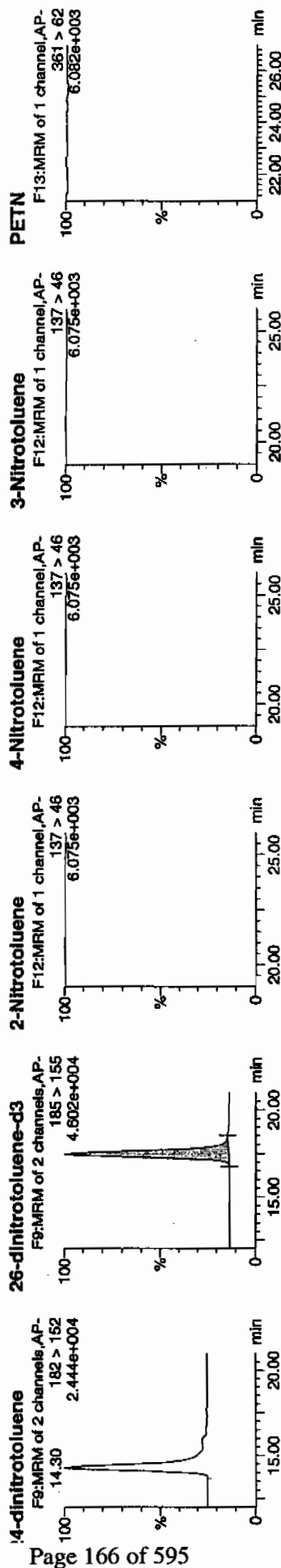
1937041/2002/21



Printed: Fri Jan 08 08:09:43 2010, Page 76 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\1010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



Retention Time (min)	Mass (m/z)	Compound
14.30	182 > 152	4-dinitrotoluene
18.5	185 > 155	26-dinitrotoluene-d3
20.00	137 > 46	2-Nitrotoluene
20.00	137 > 46	4-Nitrotoluene
20.00	137 > 46	3-Nitrotoluene
22.00	361 > 62	PETN

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7607

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519002

Sample Amount 2

Moisture: 6.2

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050055.wiff

Date Analyzed: 06-JAN-10 04:38

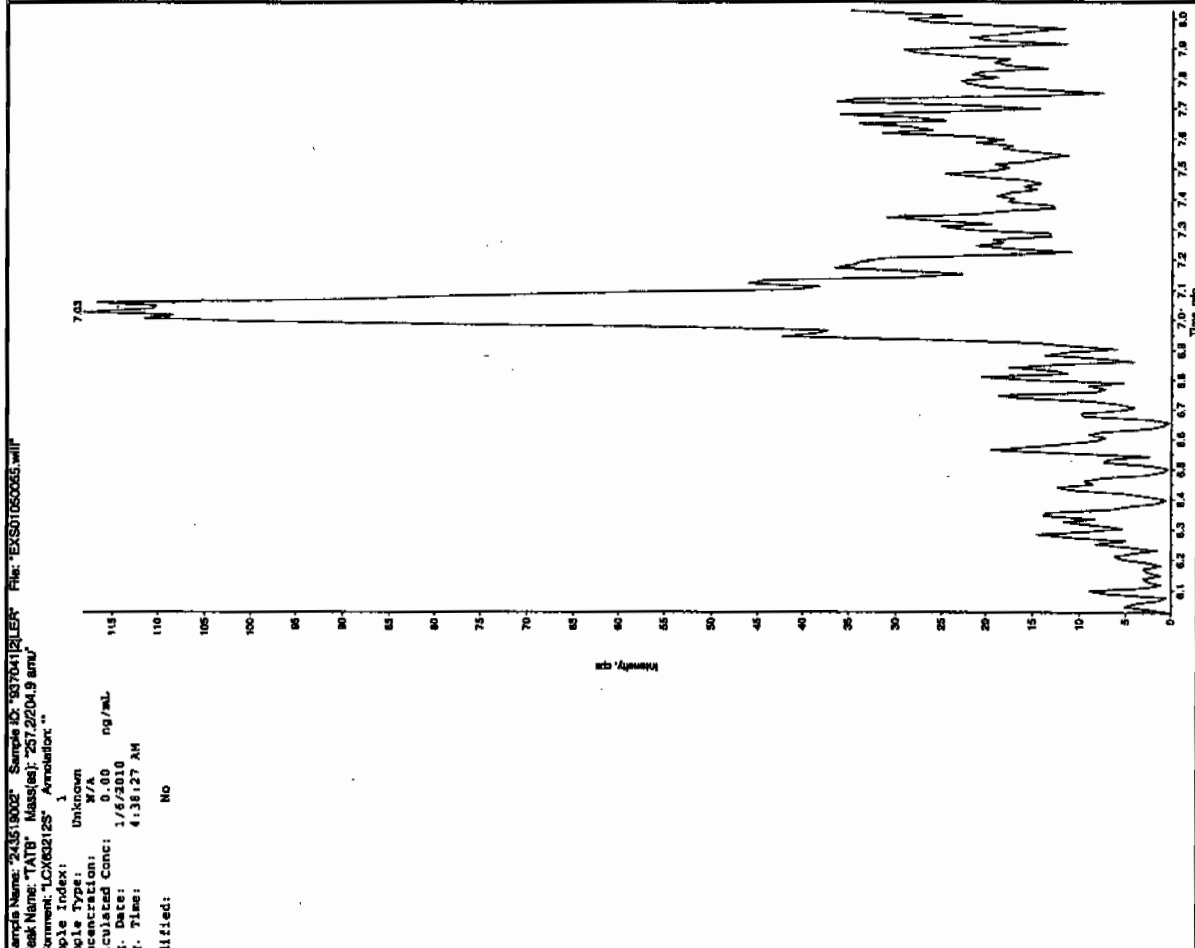
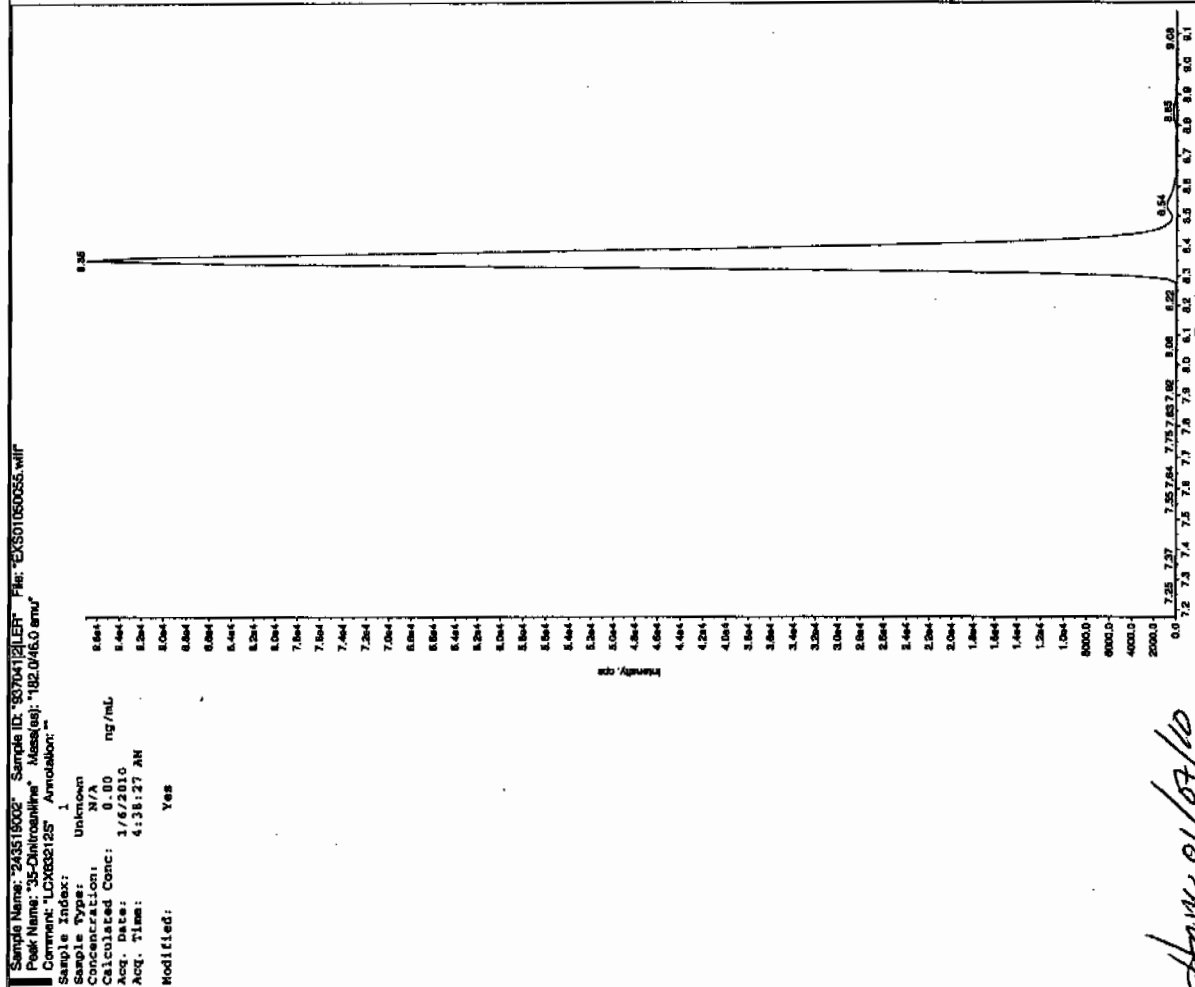
Units: ug/kg

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

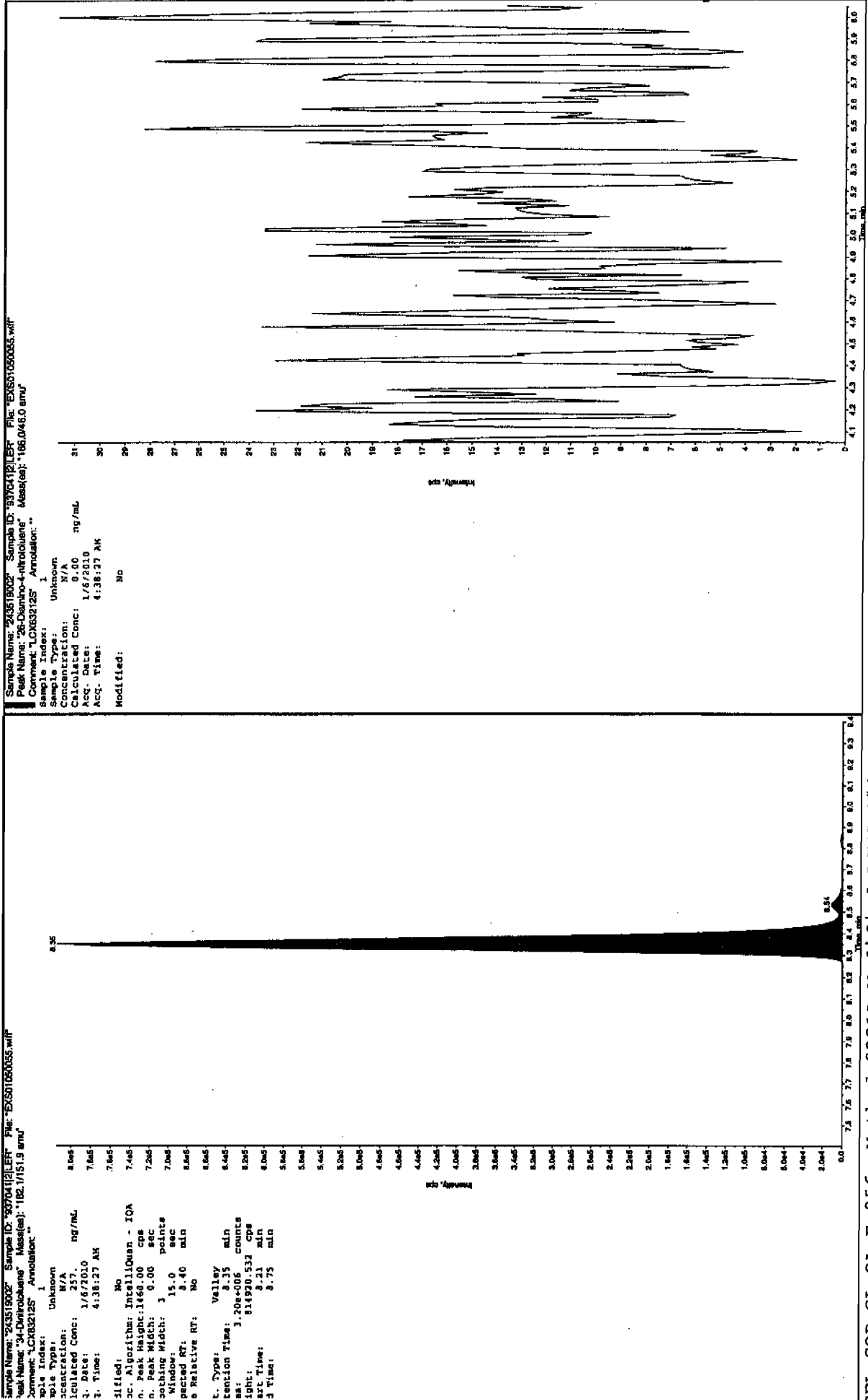
*Concentration =

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

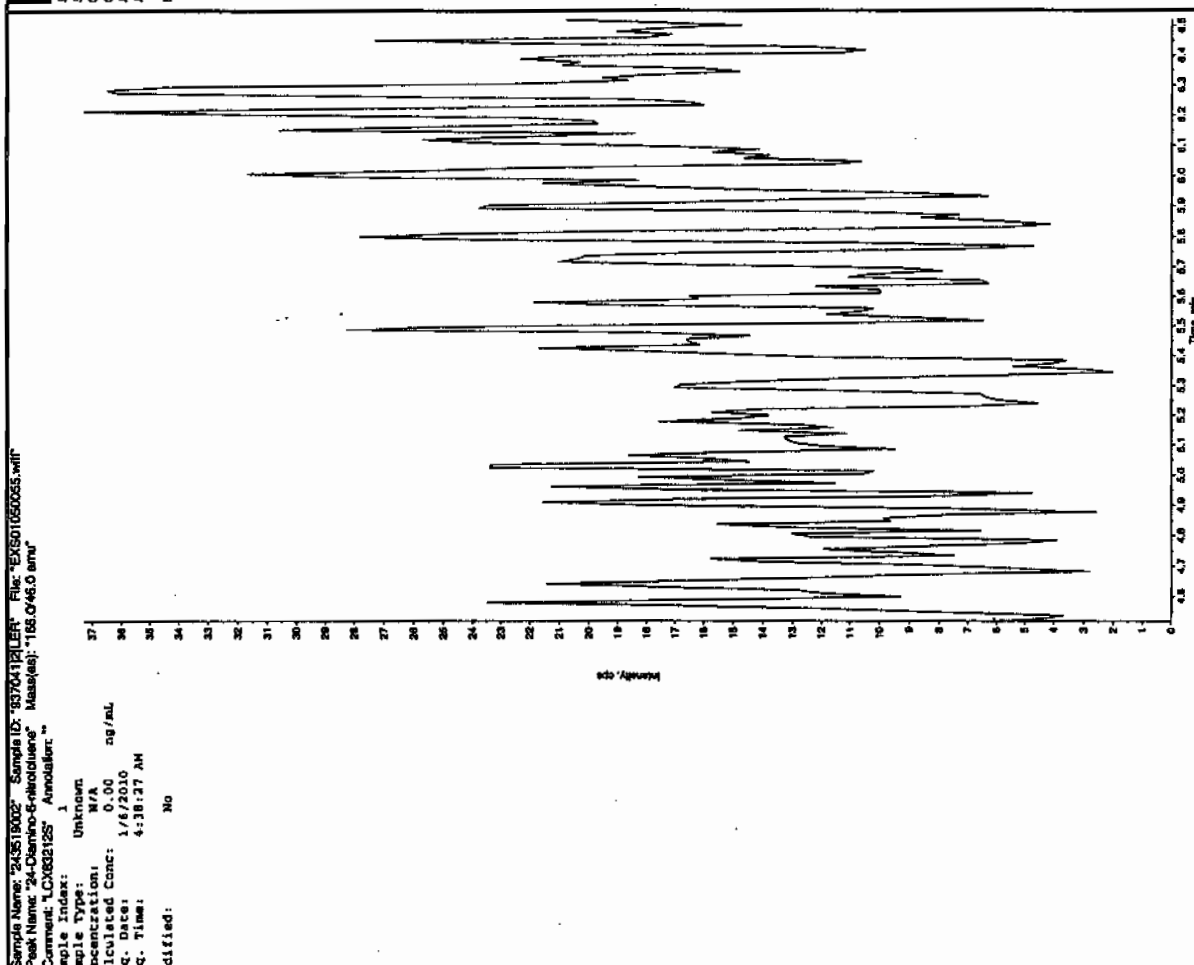
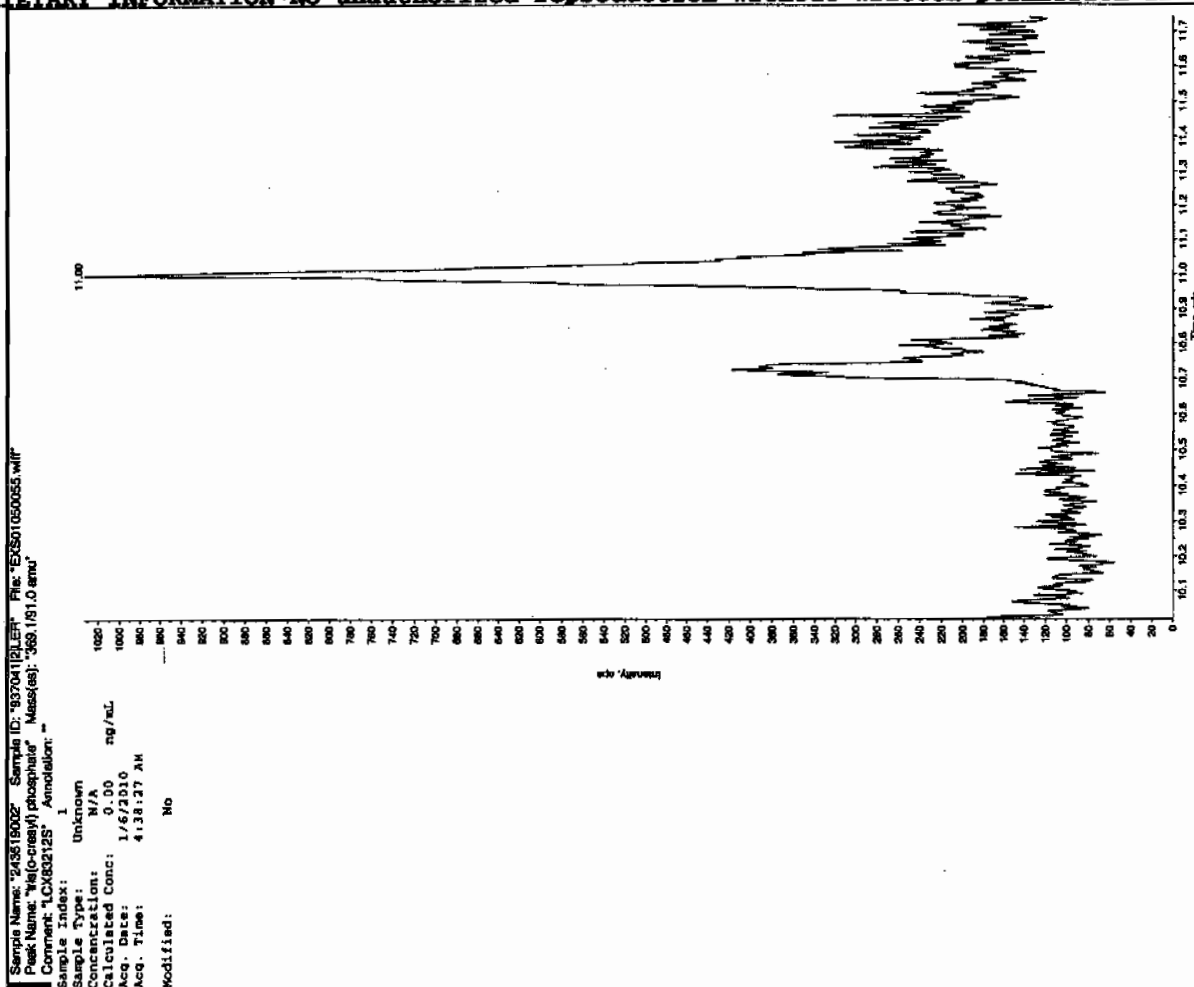
01/17/10
JAC



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



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



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7596

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519003

Sample Amount 2

Moisture: 10.0

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105112a

Date Analyzed: 08-JAN-10 01:50

Units: ug/kg

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

*Concentration =

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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105112a

Date: 08-Jan-2010

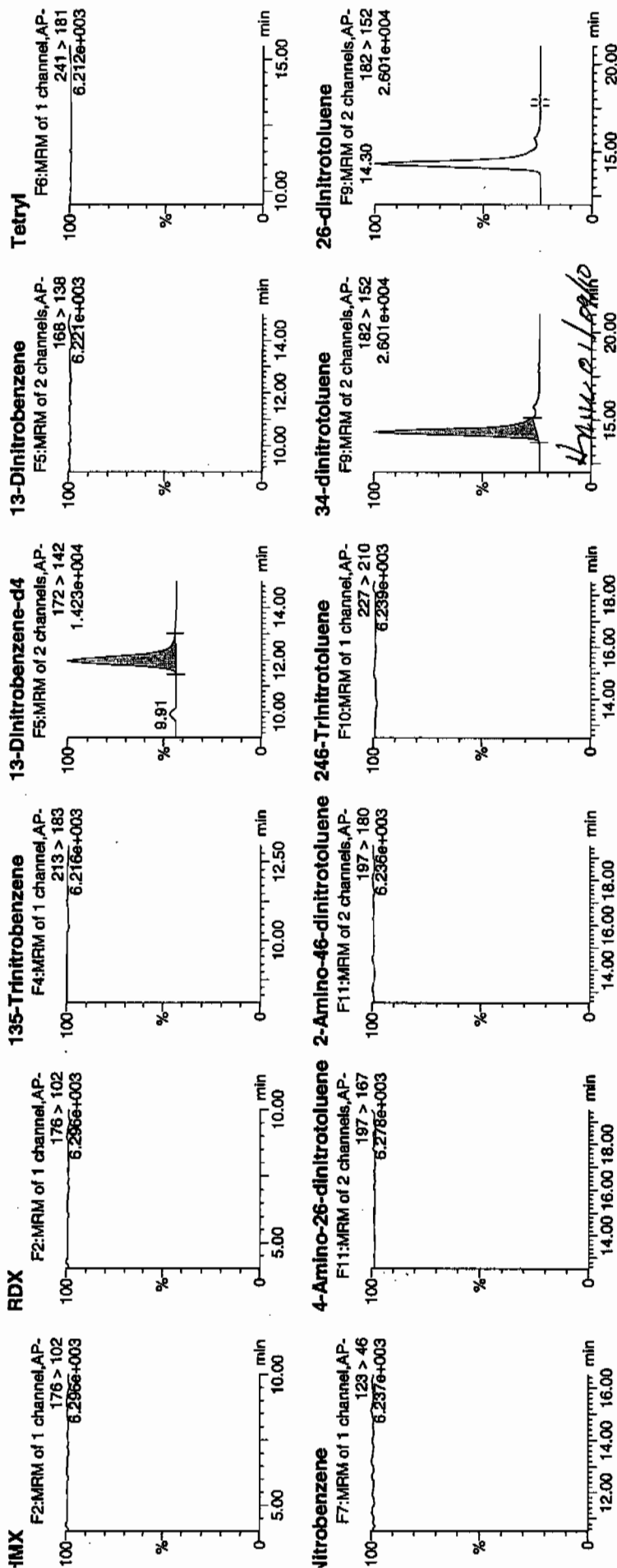
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1077
1/8/10

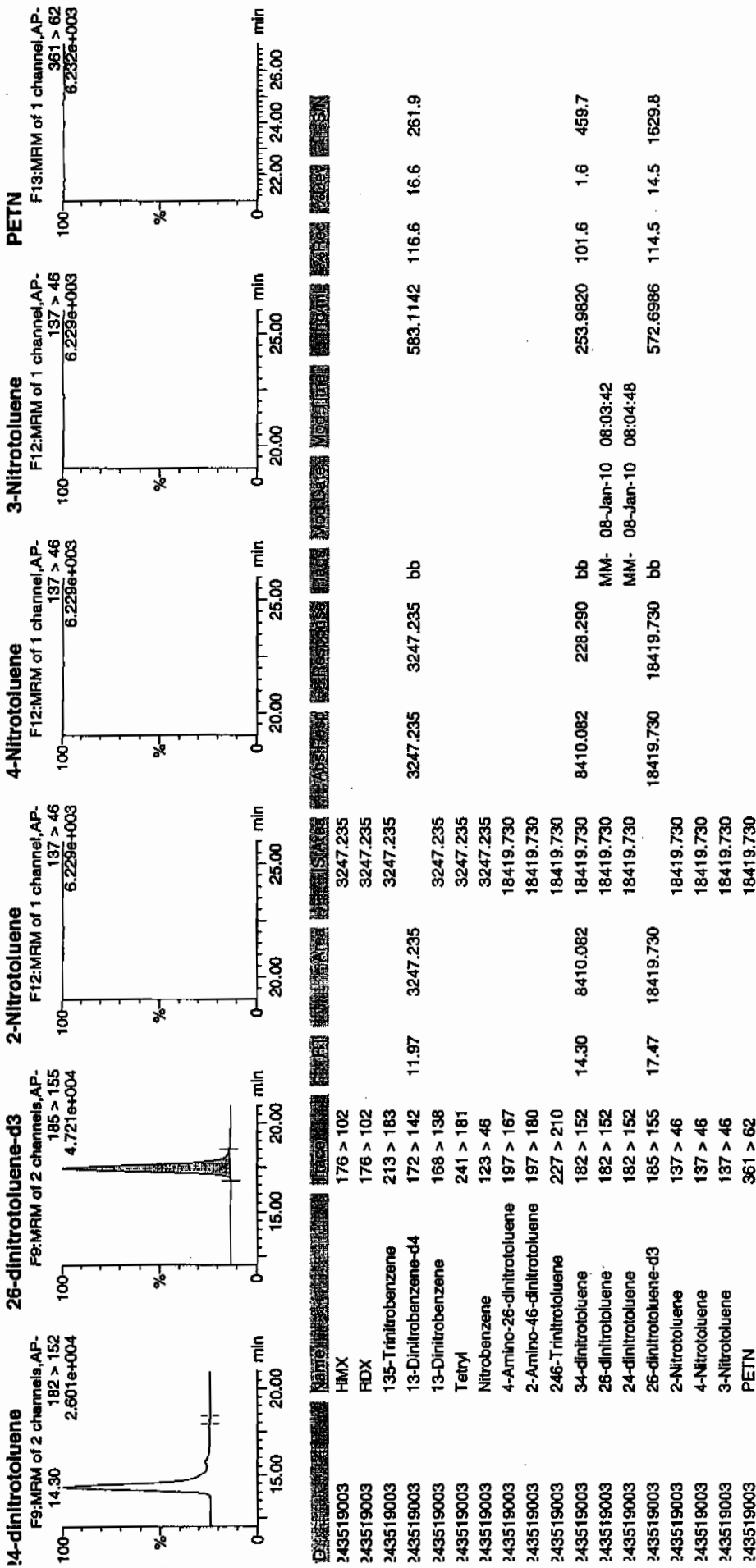
WAVE 937041 / 8000 / 21



Printed: Fri Jan 08 08:09:43 2010, Page 78 of 97

Quantify Sample Report
 3EL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\WASSL\Y\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7596

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519003

Sample Amount 2

Moisture: 10.0

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050056.wiff

Date Analyzed: 06-JAN-10 04:54

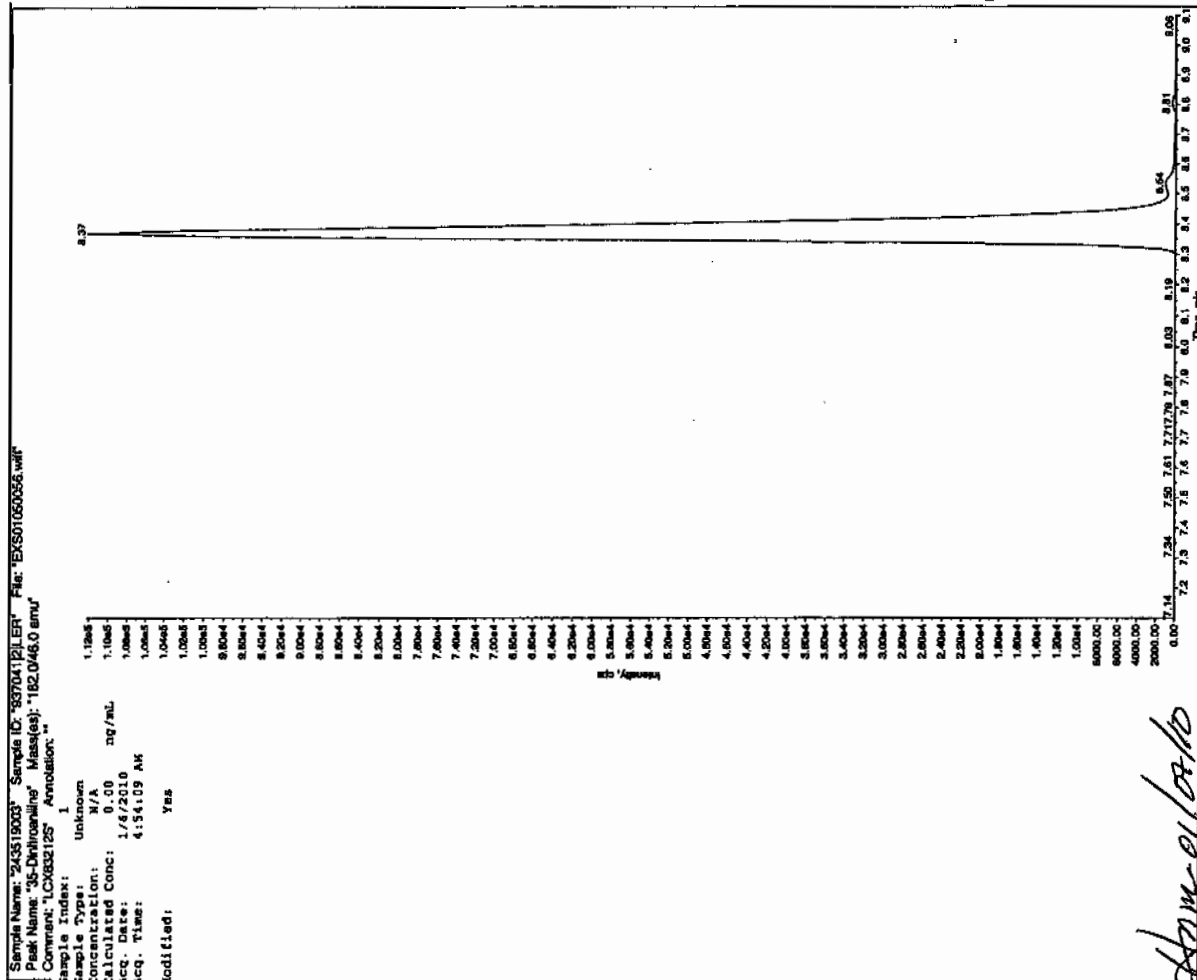
Units: ug/kg

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

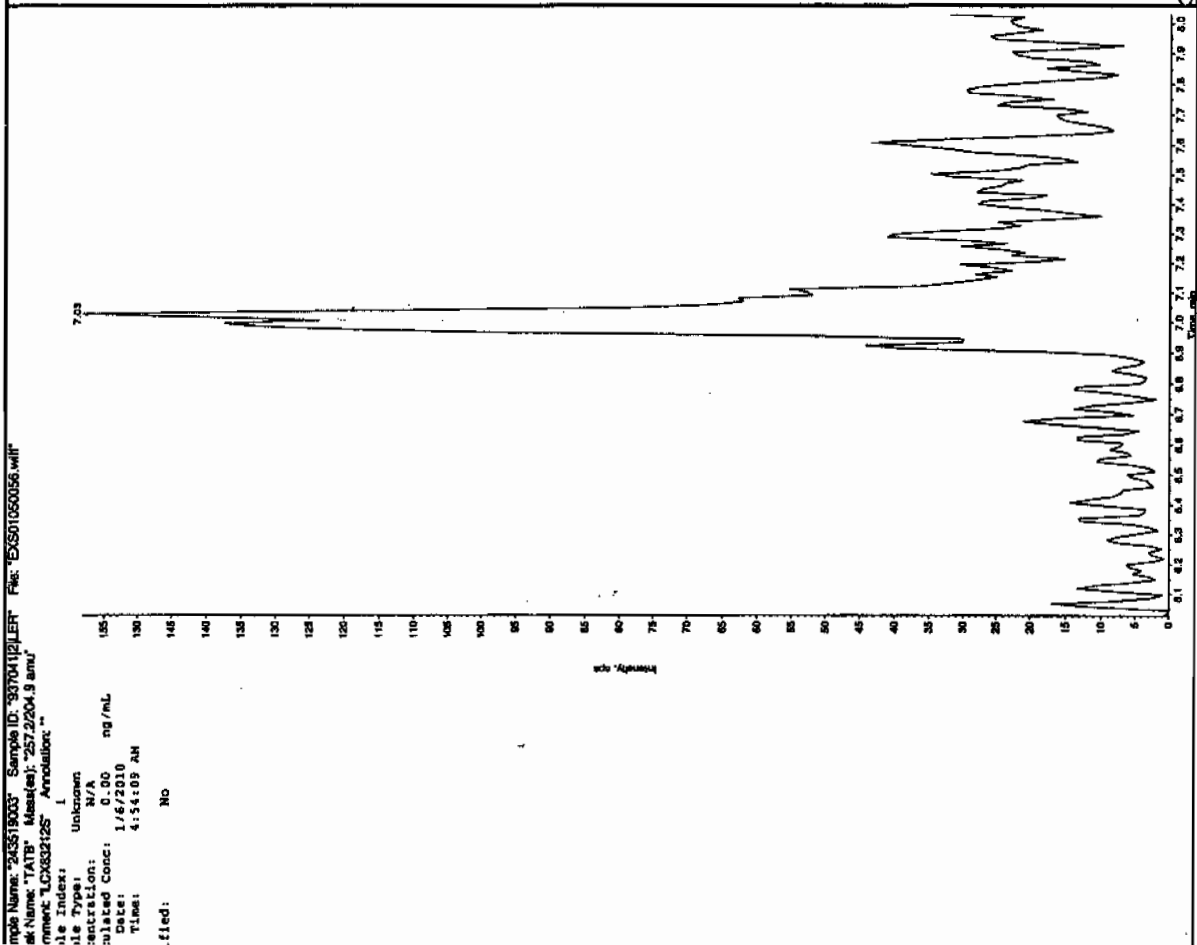
*Concentration =

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

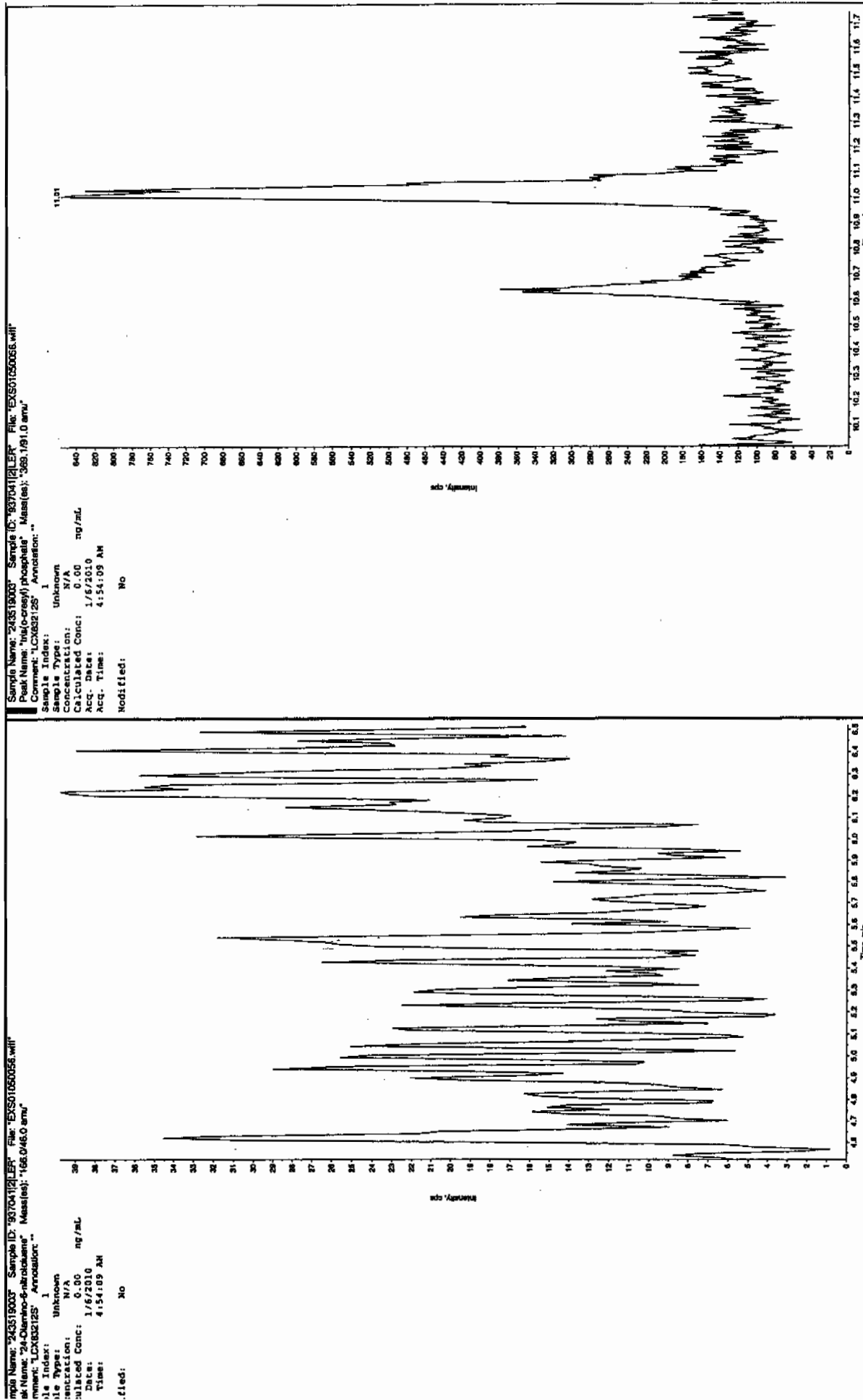
11/2/10
J. Lee



Ann-el/08/10



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



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7597

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519004

Sample Amount 2

Moisture: 5.1

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105113a

Date Analyzed: 08-JAN-10 02:19

Units: ug/kg

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

*Concentration =

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

Printed: Fri Jan 08 08:09:43 2010, Page 79 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105113a

Date: 08-Jan-2010

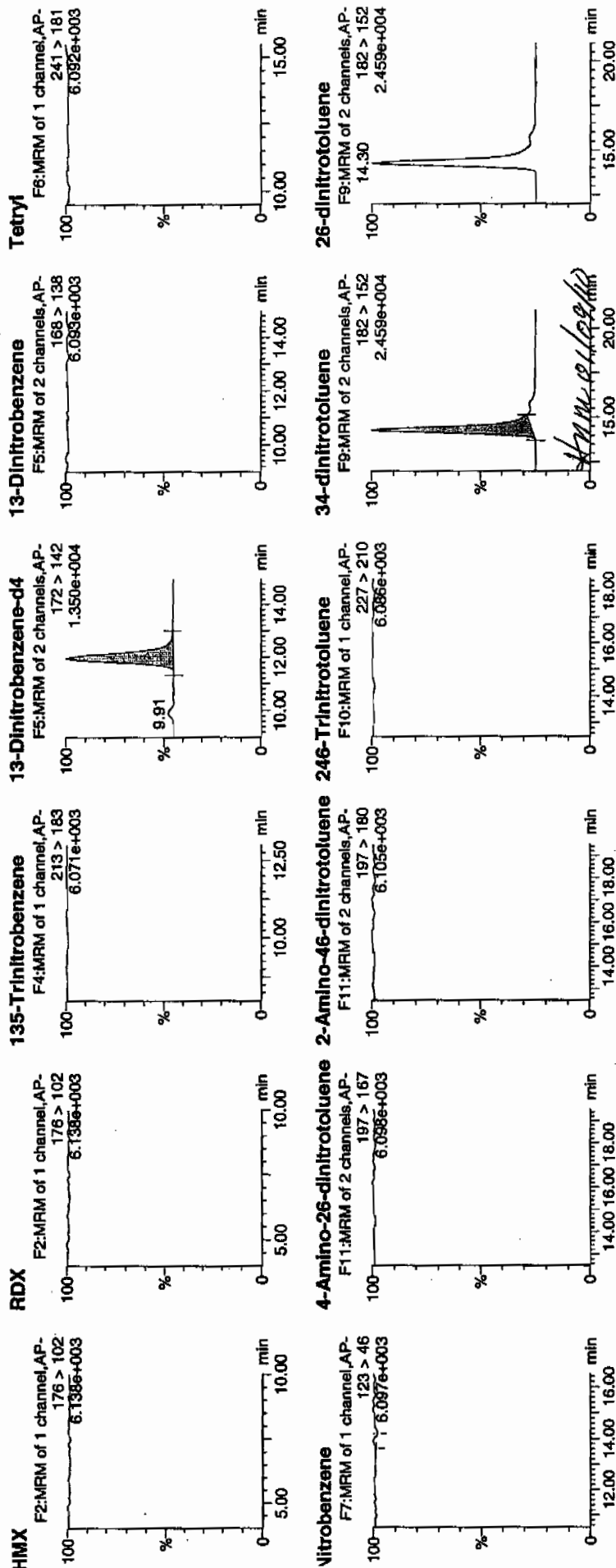
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ID: 243519004

Vial: 3:3,C

1/8/10

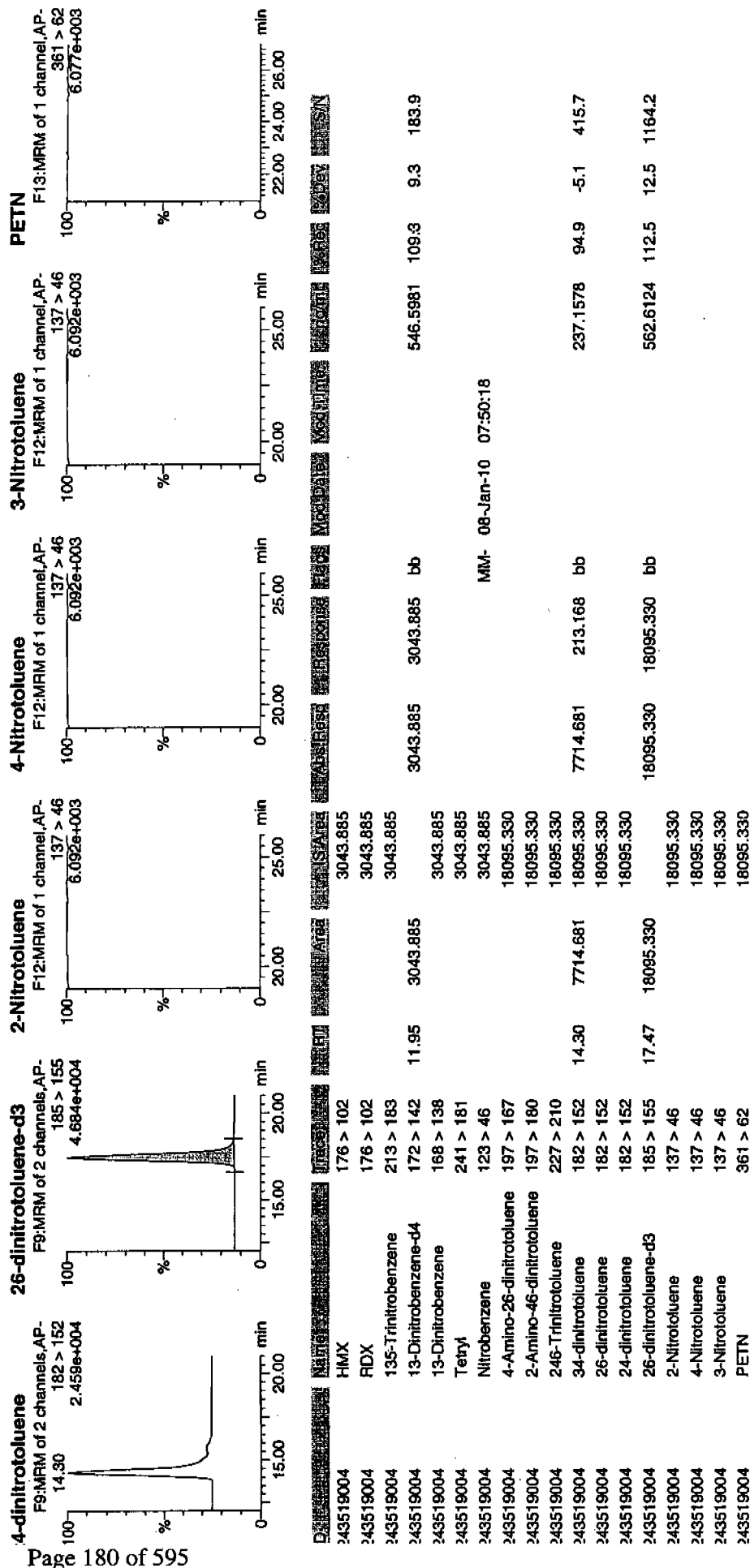
937041 / 8022



Printed: Fri Jan 08 08:09:43 2010, Page 80 of 97

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

Dataset: C:\MASSLYNX\New_Exp_PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7597

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519004

Sample Amount 2

Moisture: 5.1

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050057.wiff

Date Analyzed: 06-JAN-10 05:09

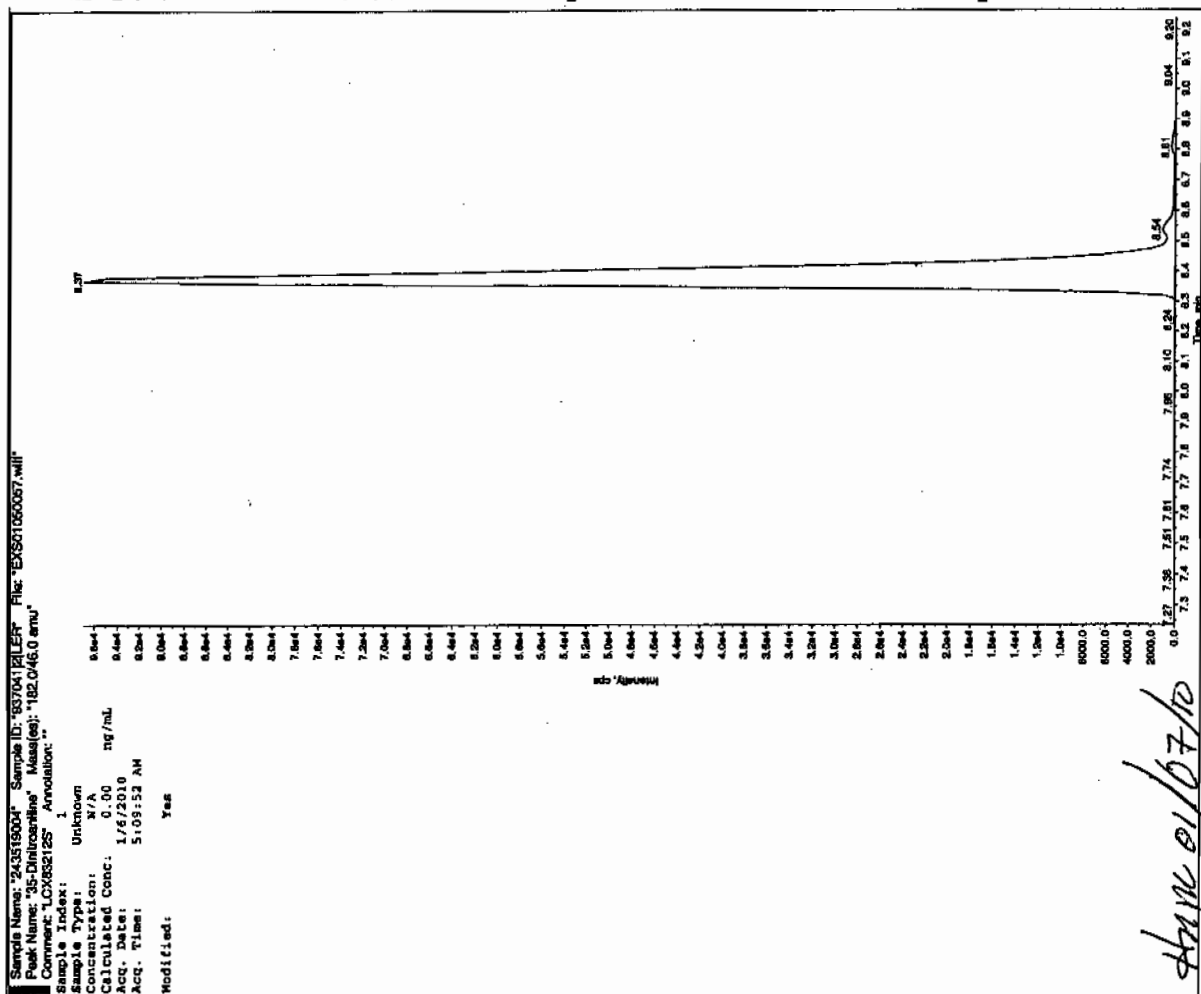
Units: ug/kg

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

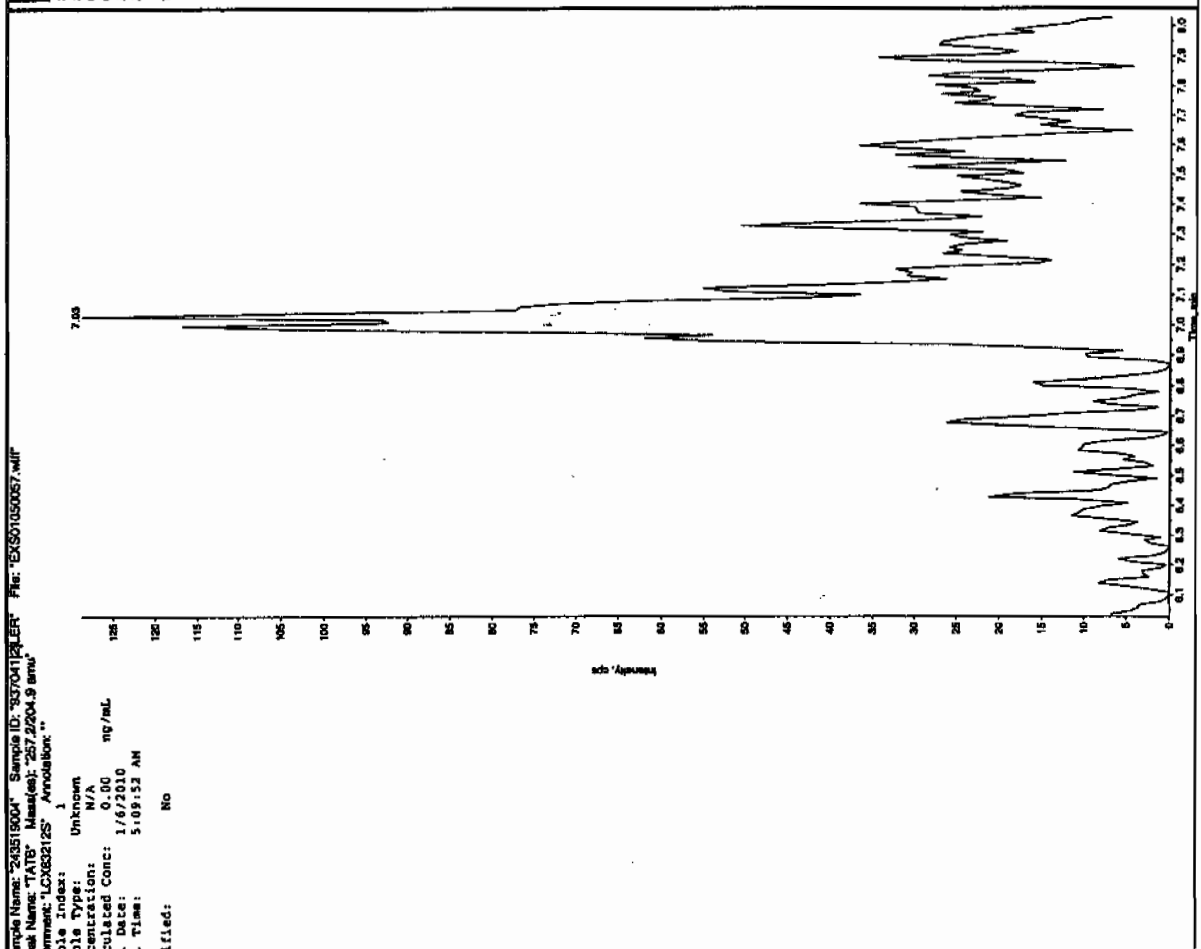
*Concentration =

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

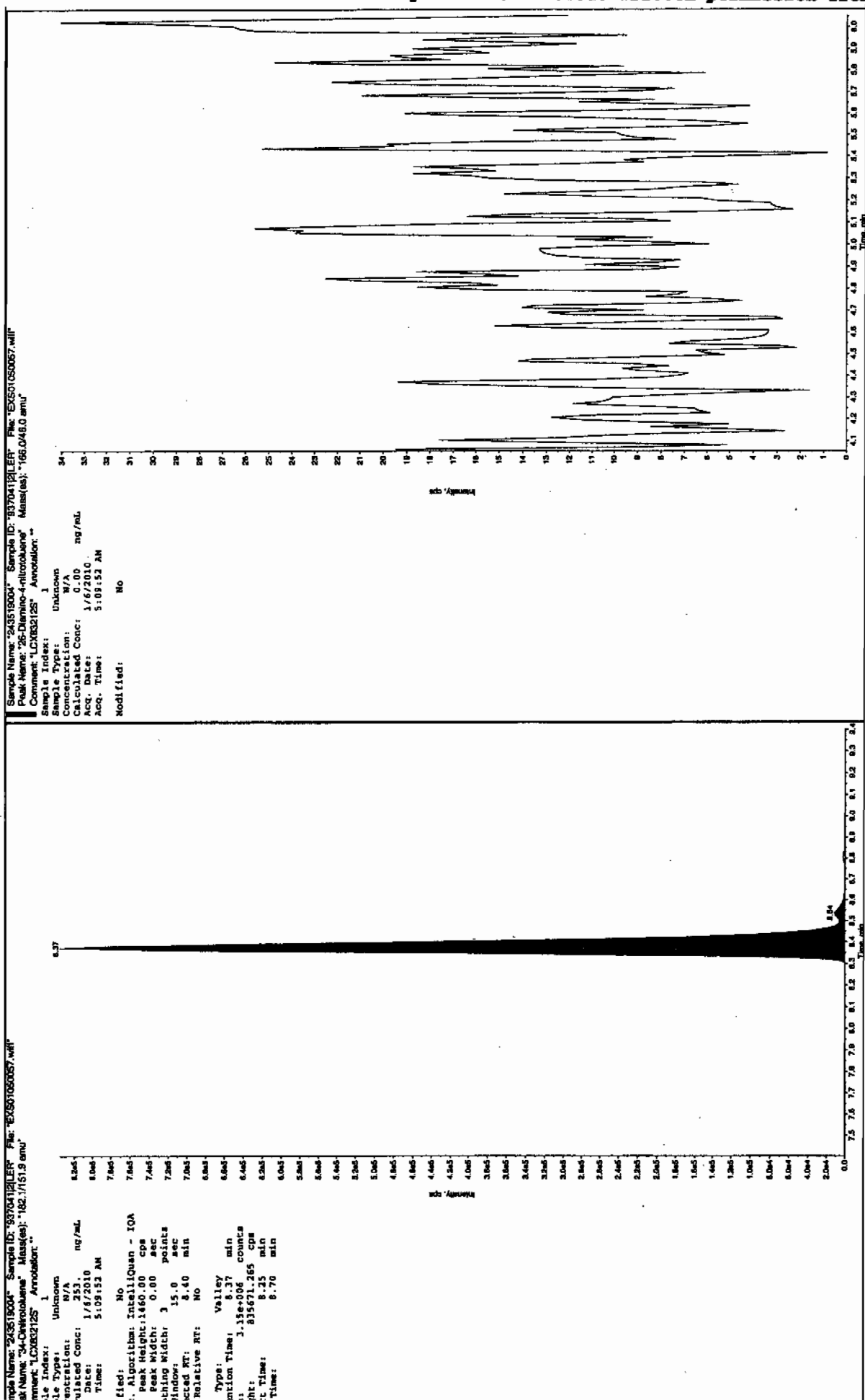
1/24/10
Jag

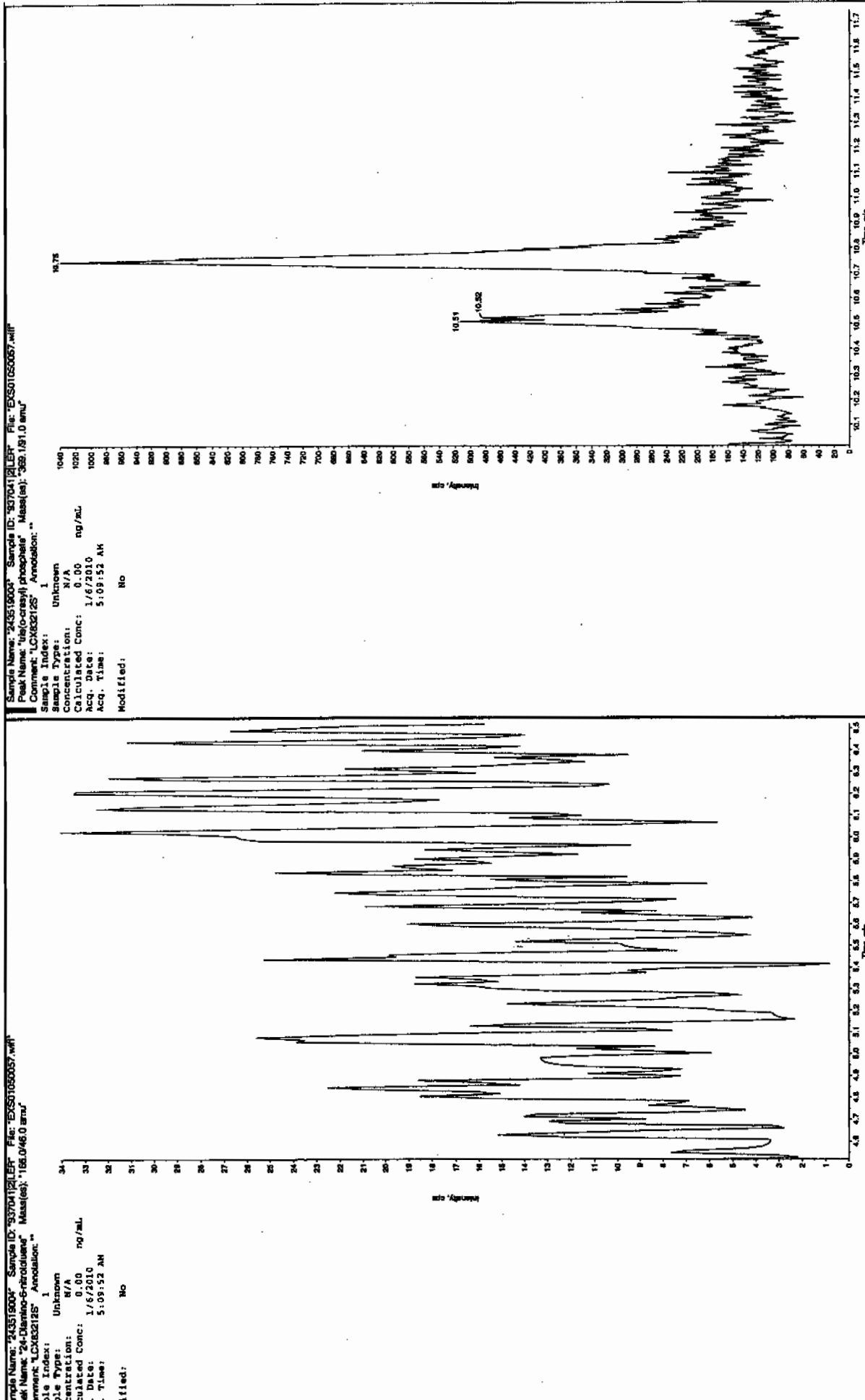


June 01/07/10



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





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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7608

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519005

Sample Amount 2

Moisture: 10.7

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108014a

Date Analyzed: 08-JAN-10 23:38

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
SEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Sample Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0108014a

Date: 08-Jan-2010

Time: 23:38:33

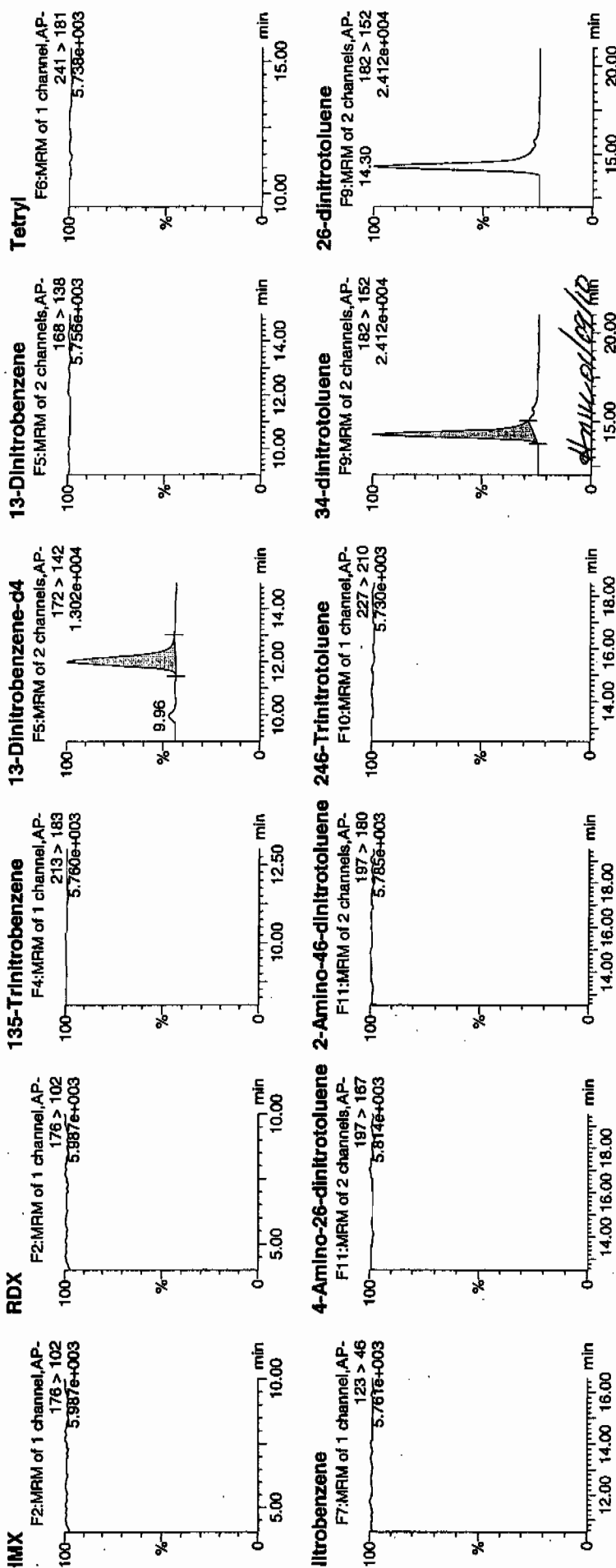
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1/9/10

WAV 937041 / 8000 / 21

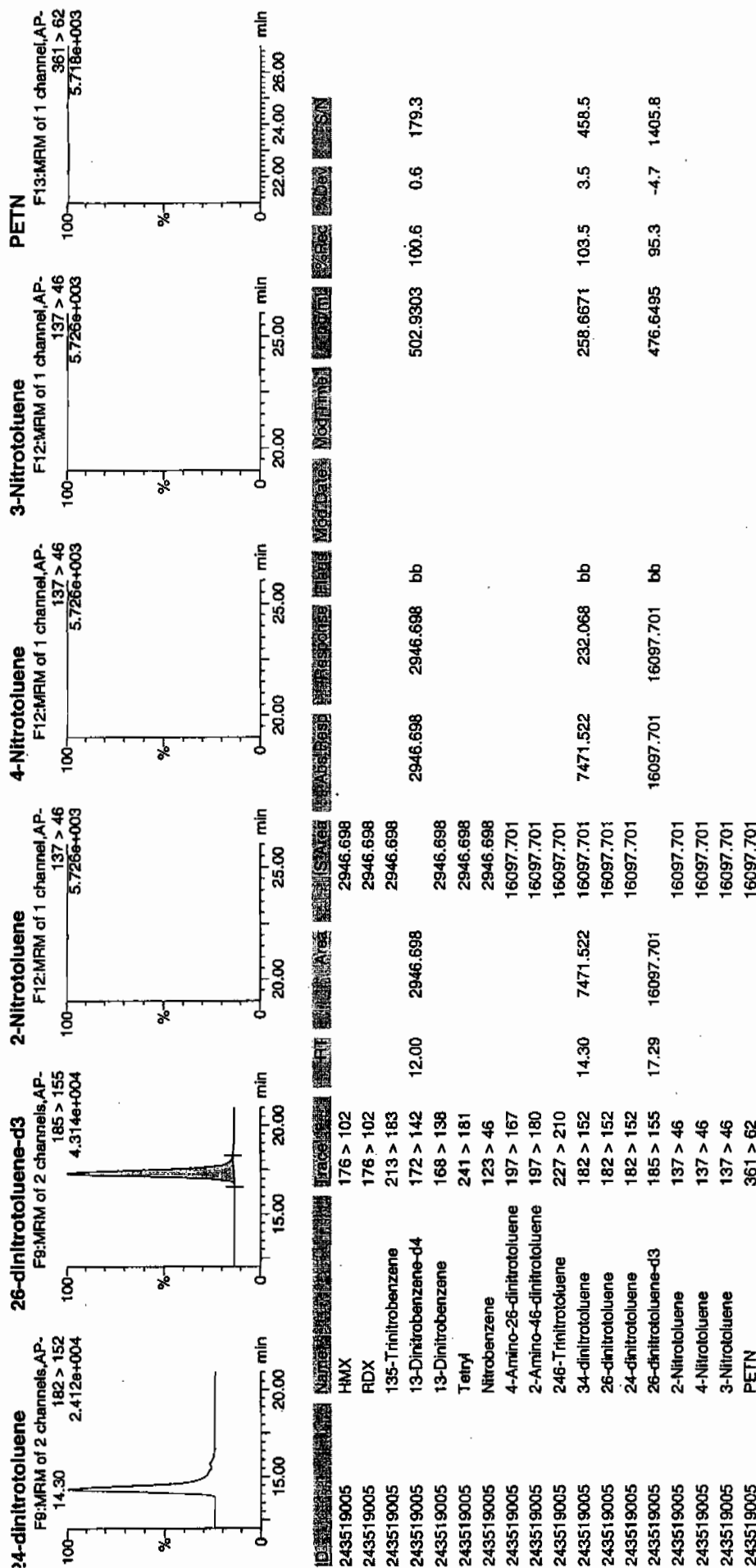
Page 186 of 595



Printed: Sat Jan 09 12:02:23 2010, Page 28 of 61

Quantify Sample Report
3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7608

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519005

Sample Amount 2

Moisture: 10.7

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050058.wiff

Date Analyzed: 06-JAN-10 05:25

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

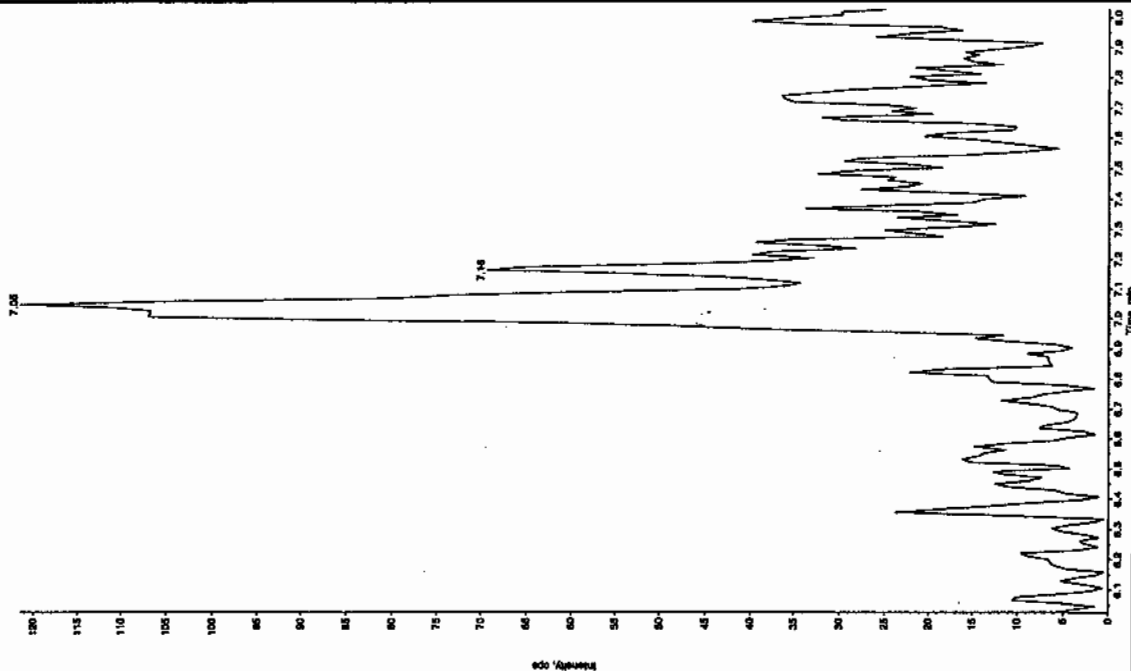
*Concentration =

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

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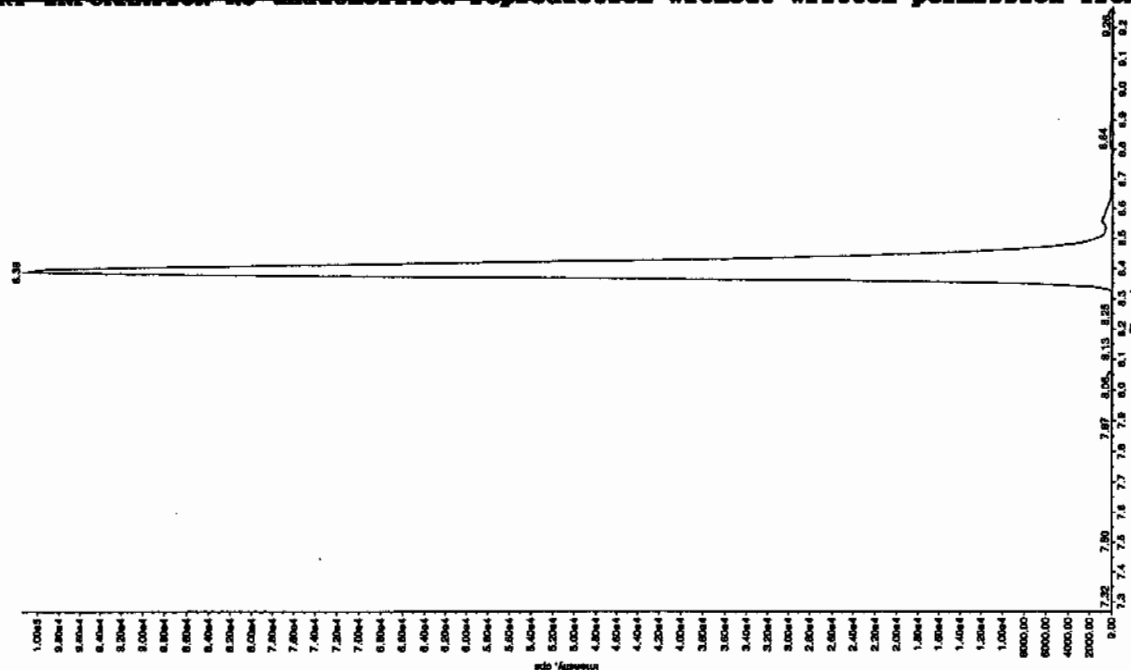
Sample Name: "243518005" Sample ID: "93704121LRF" File: "EX501050058.wif"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 5:25:34 AM
Modified: No

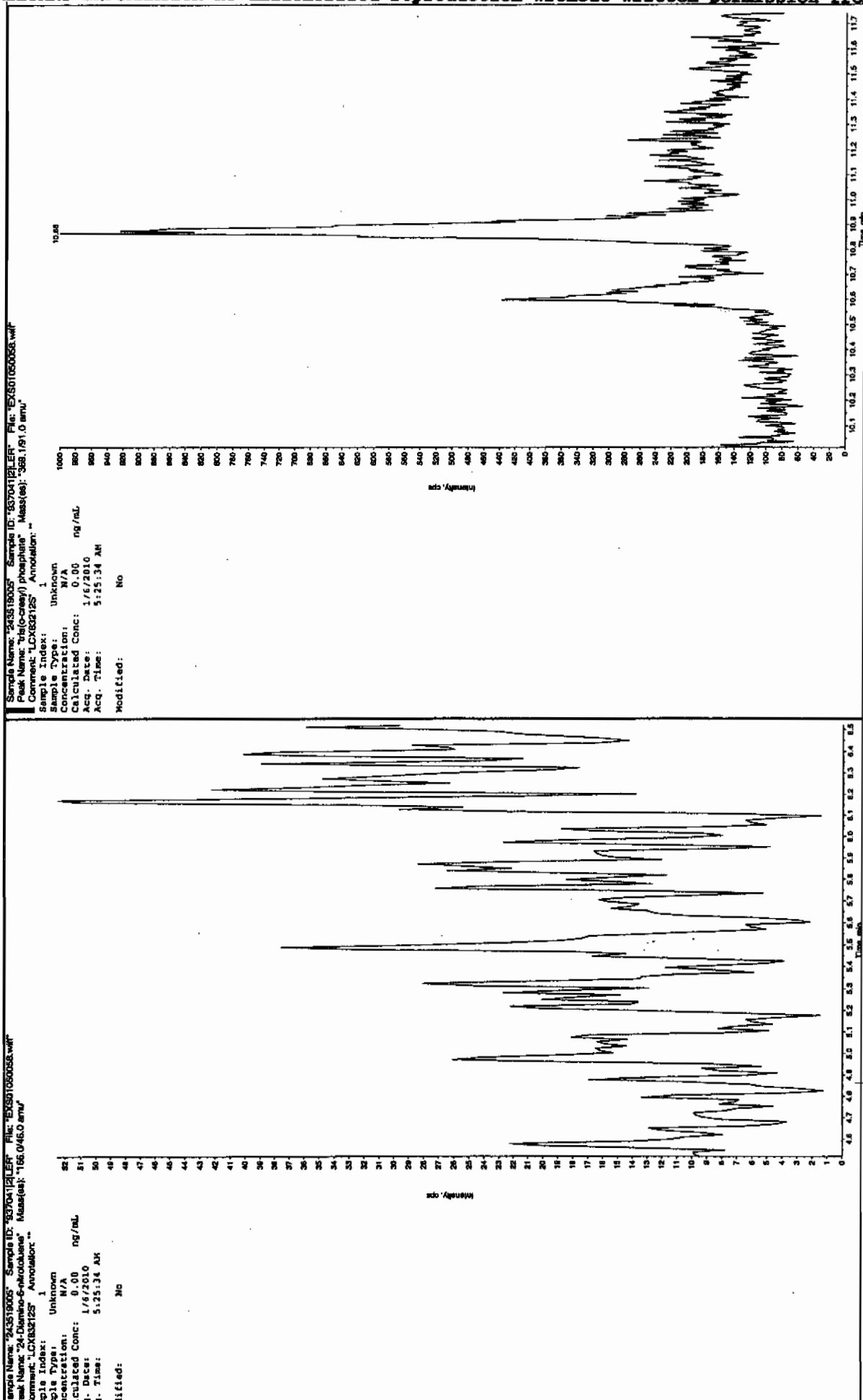


Sample Name: "243518005" Sample ID: "93704121LRF" File: "EX501050058.wif"
Peak Name: "3S-Diethanolamine" Mass(es): "182.0/44.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 5:25:34 AM
Modified: No



Arm 01/02/10



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7600

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105115a

Date Analyzed: 08-JAN-10 03:18

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		

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105115a

Date: 08-Jan-2010

Time: 03:18:37

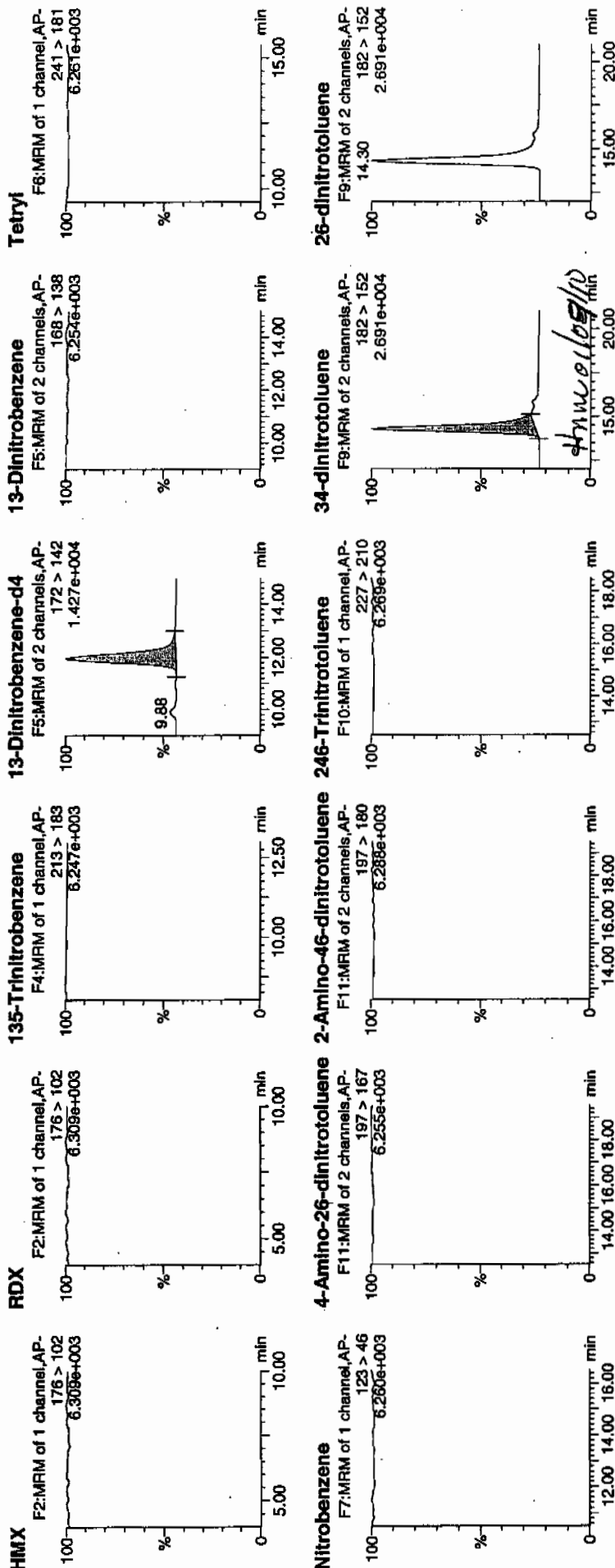
ID: 243519006

Vial: 3:3.E

1/8/10

937041 / 2000 / 21

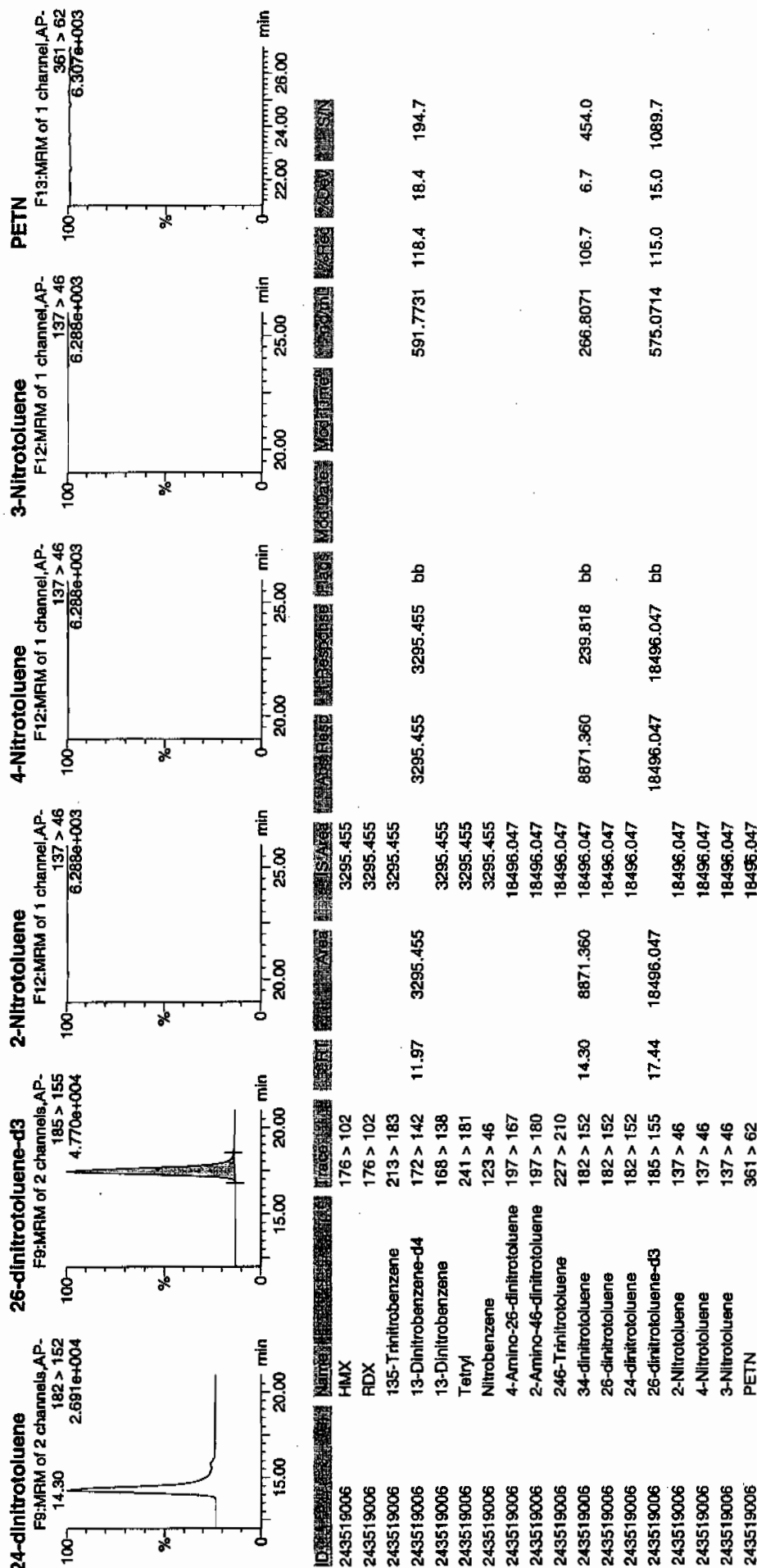
Page 193 of 595



Printed: Fri Jan 08 08:09:43 2010, Page 84 of 97

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

Dataset: C:\MASSLYNX\New_Exp_PRO\1010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7600

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519006

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050059.wiff

Date Analyzed: 06-JAN-10 05:41

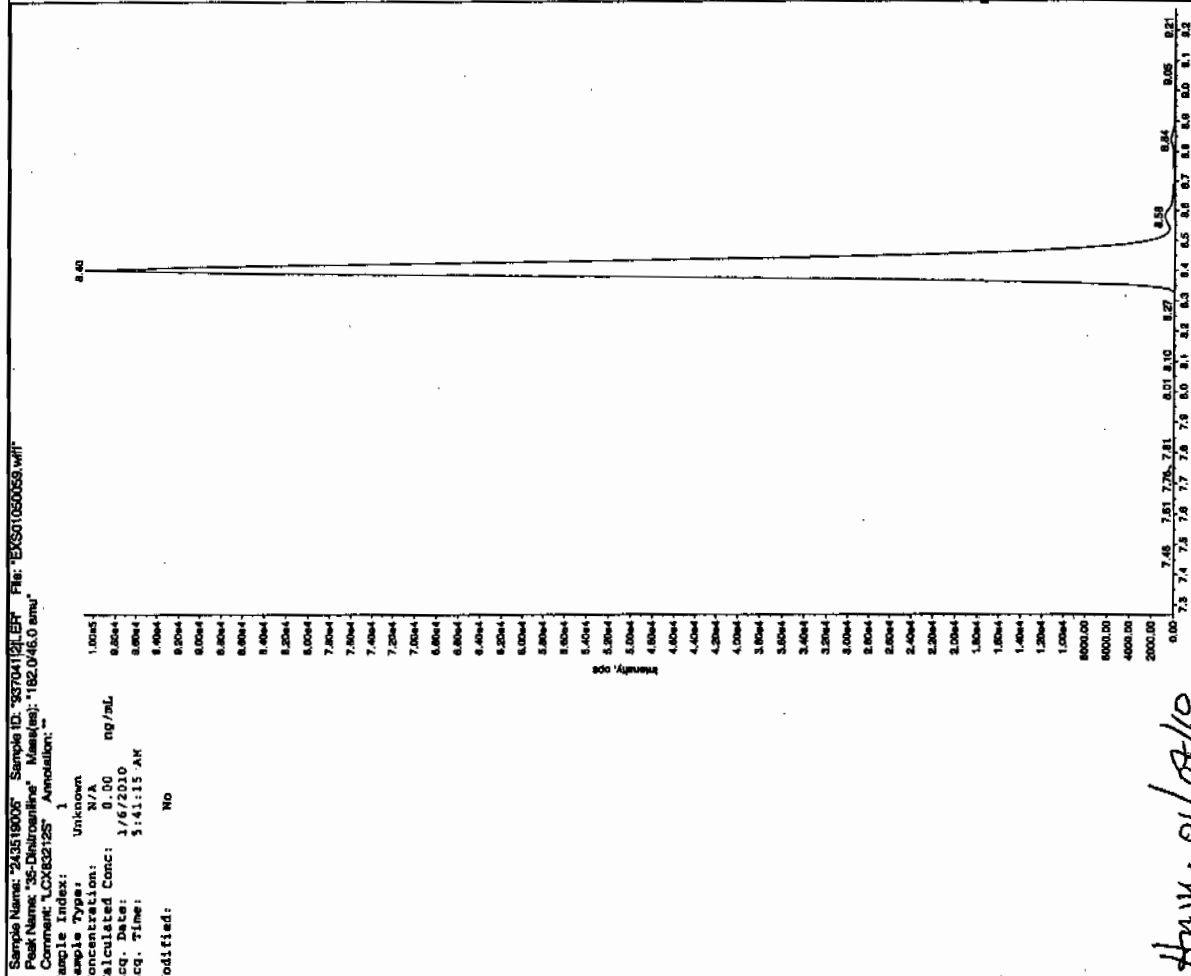
Units: ug/kg

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

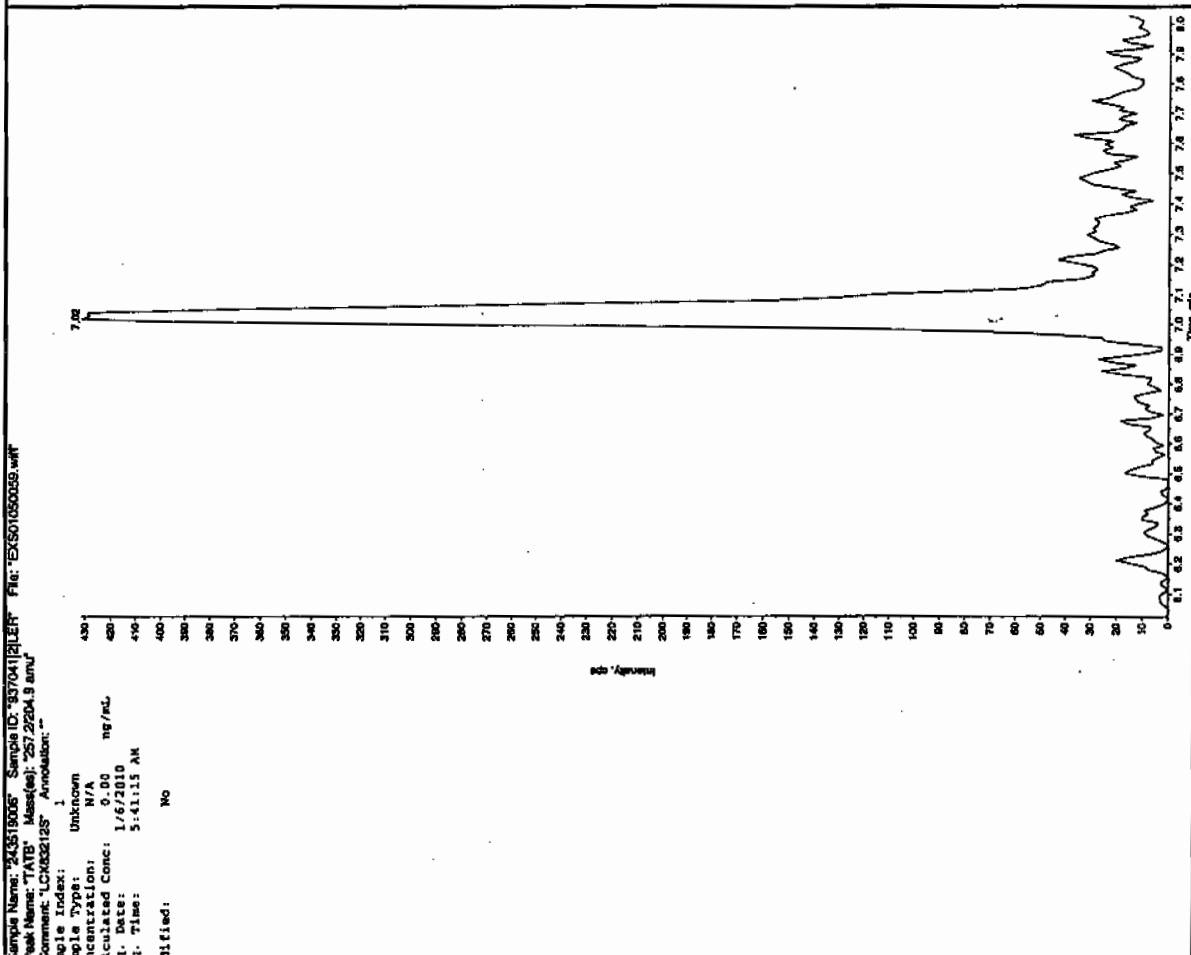
*Concentration =

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

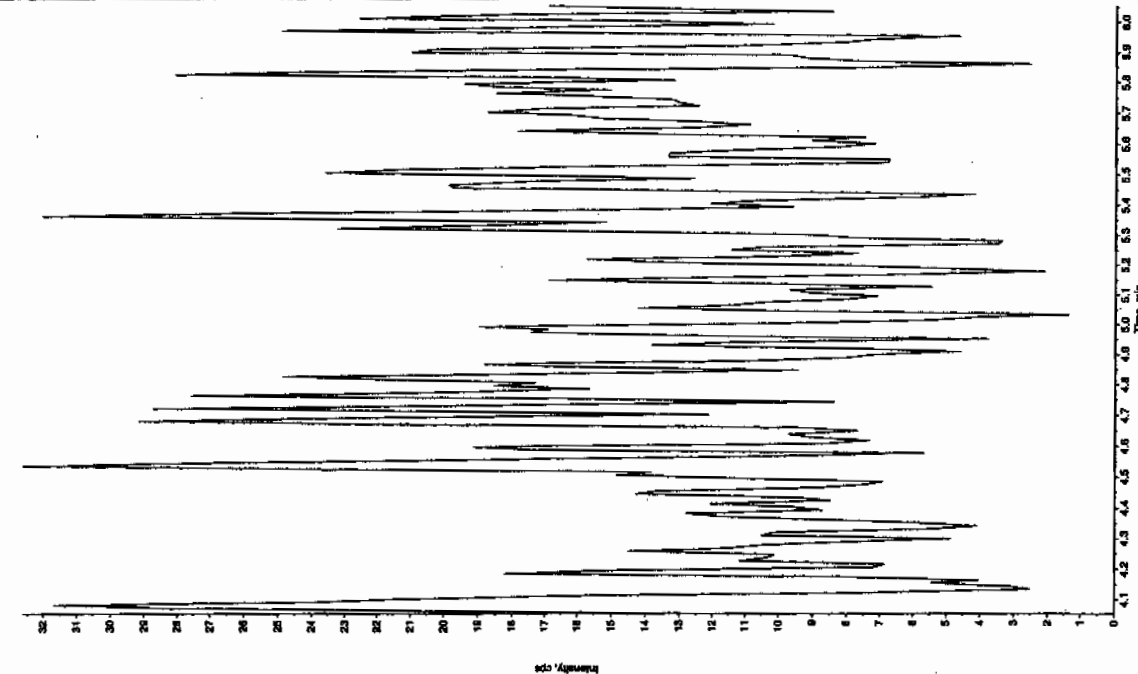
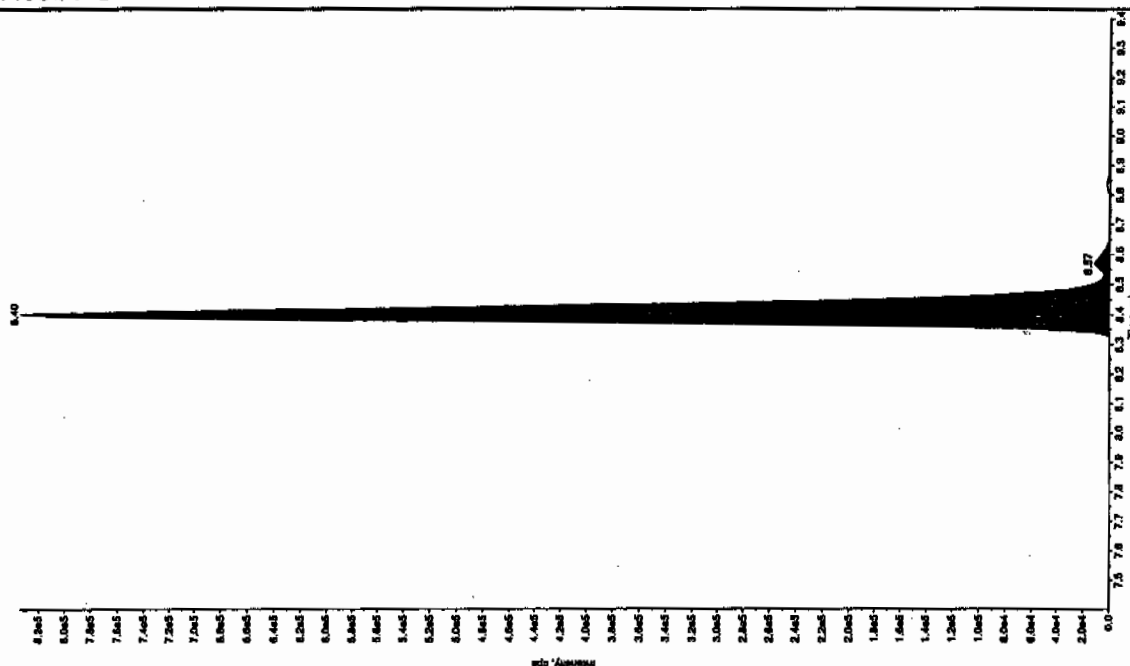
01/21/10
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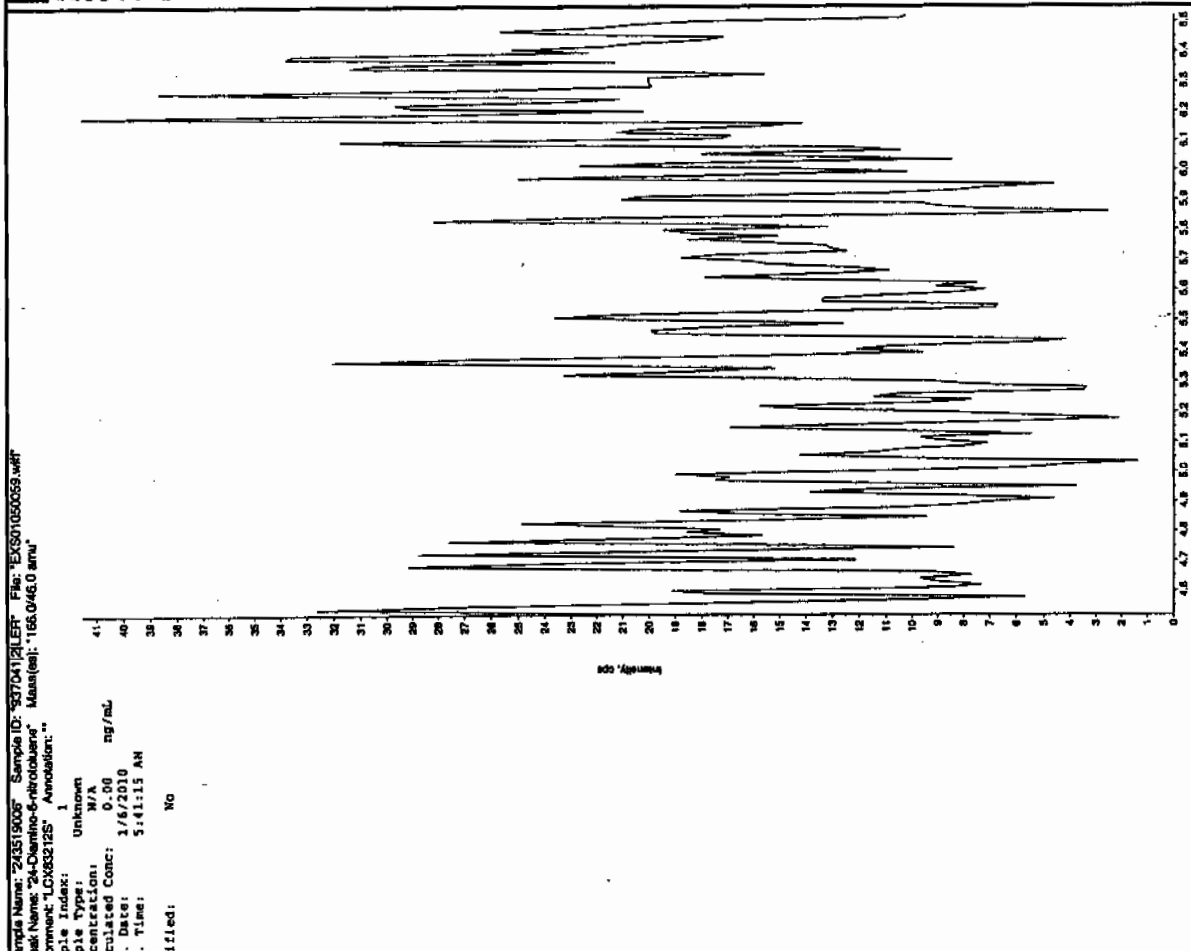
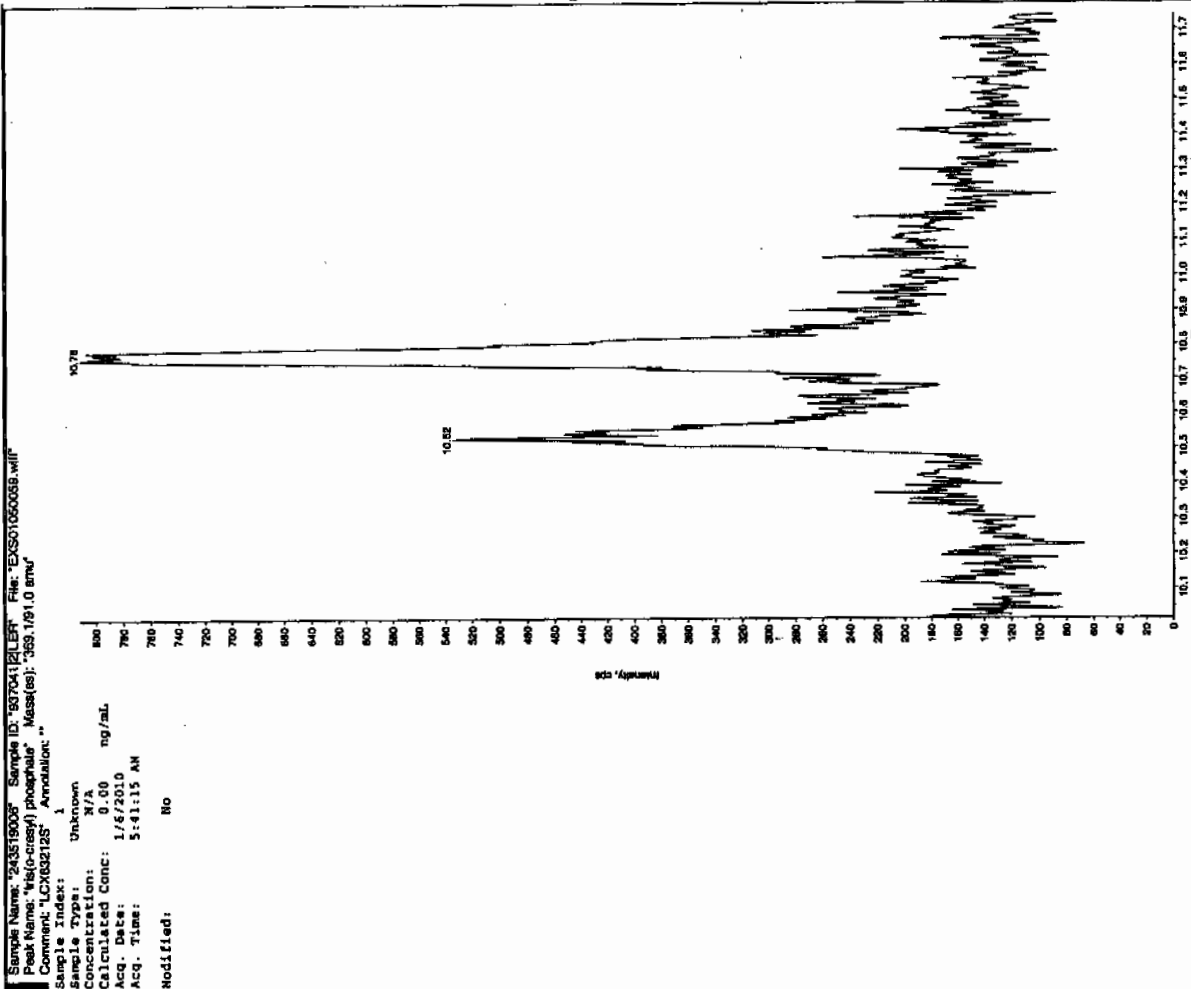


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JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7601

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108015a

Date Analyzed: 09-JAN-10 00:08

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
iEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108015a

Date: 09-Jan-2010

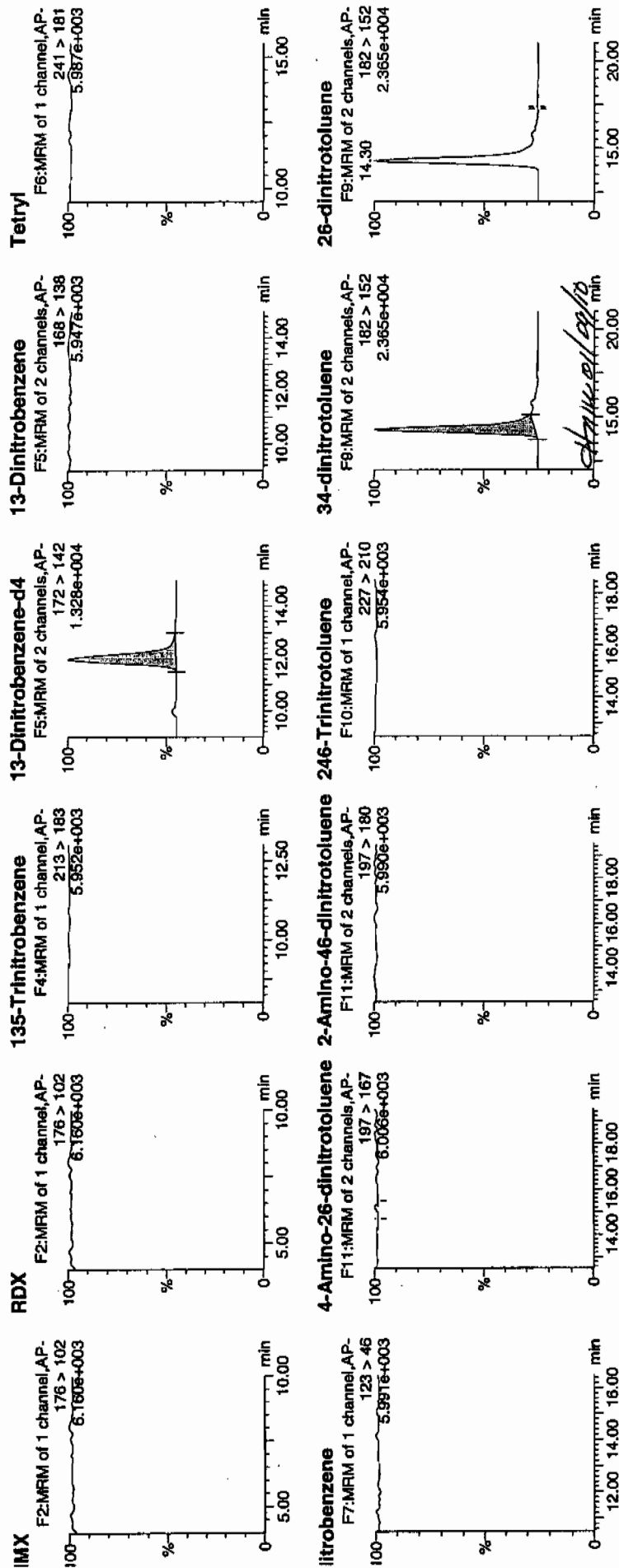
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1/9/10

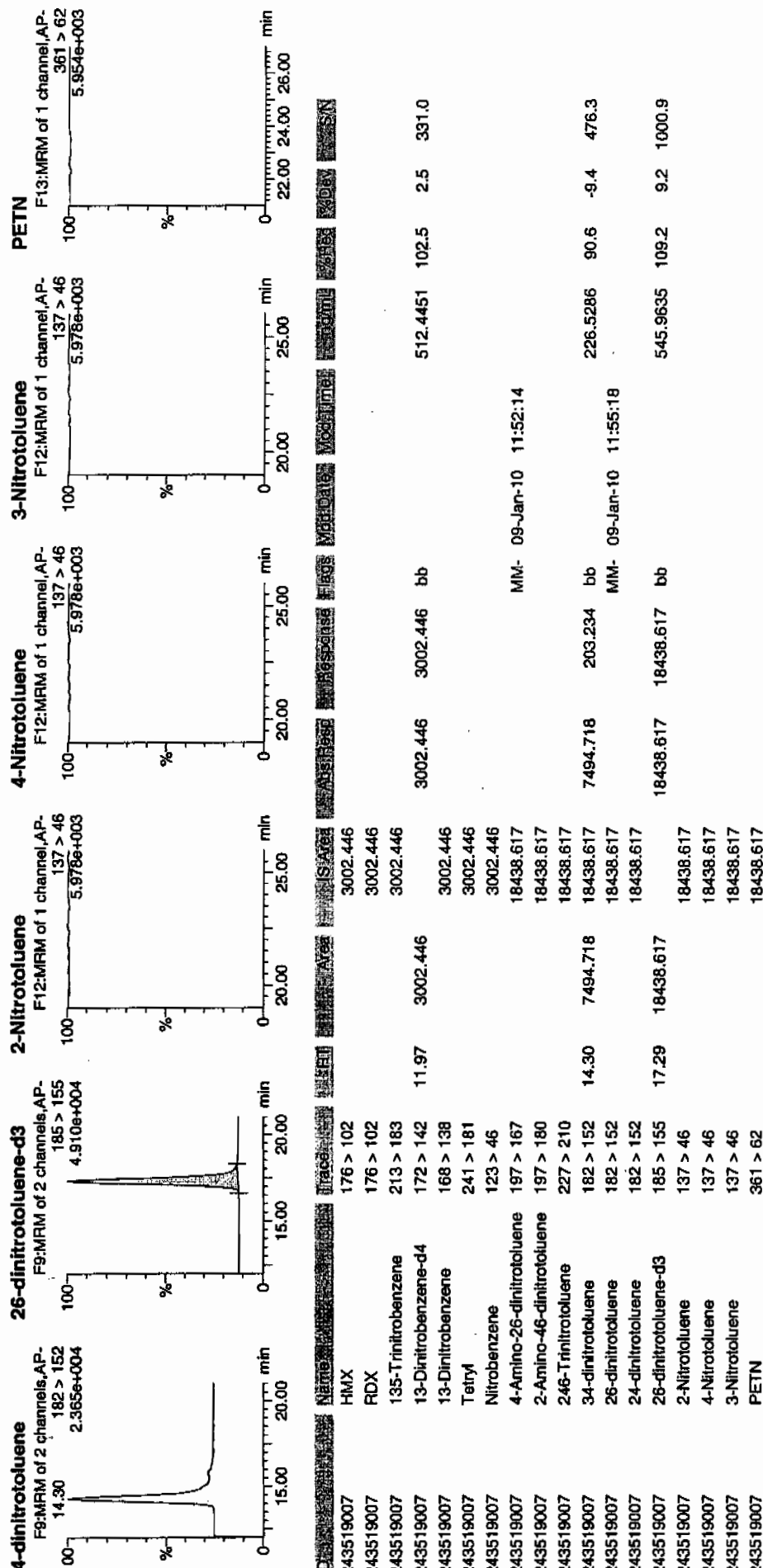
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Printed: Sat Jan 09 12:02:23 2010, Page 30 of 61

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

Dataset: C:\MASSLYNX\New_Exp\PRO010810expA.qld, Time: Sat Jan 09 12:01:37 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7601

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519007

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050060.wiff

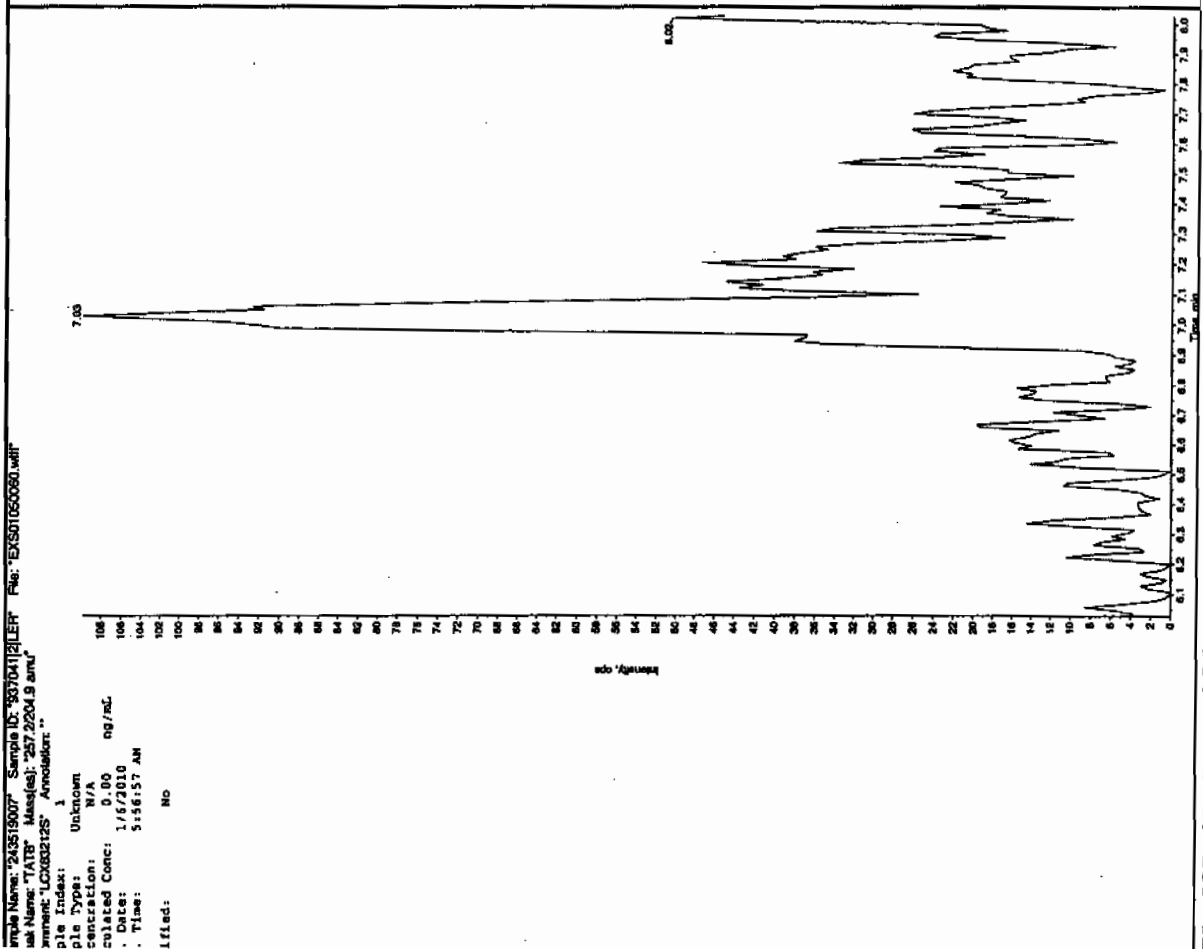
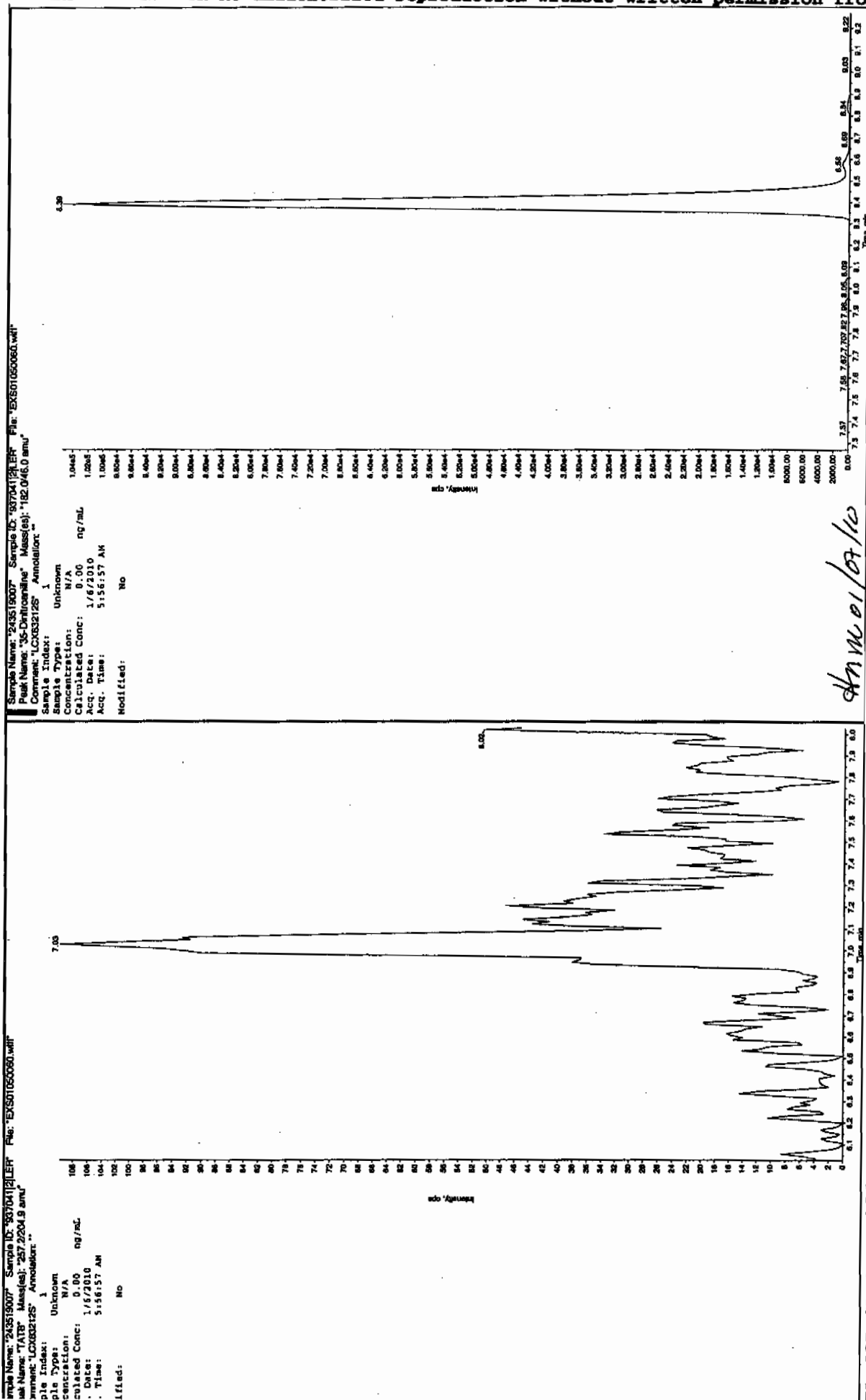
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Units: ug/kg

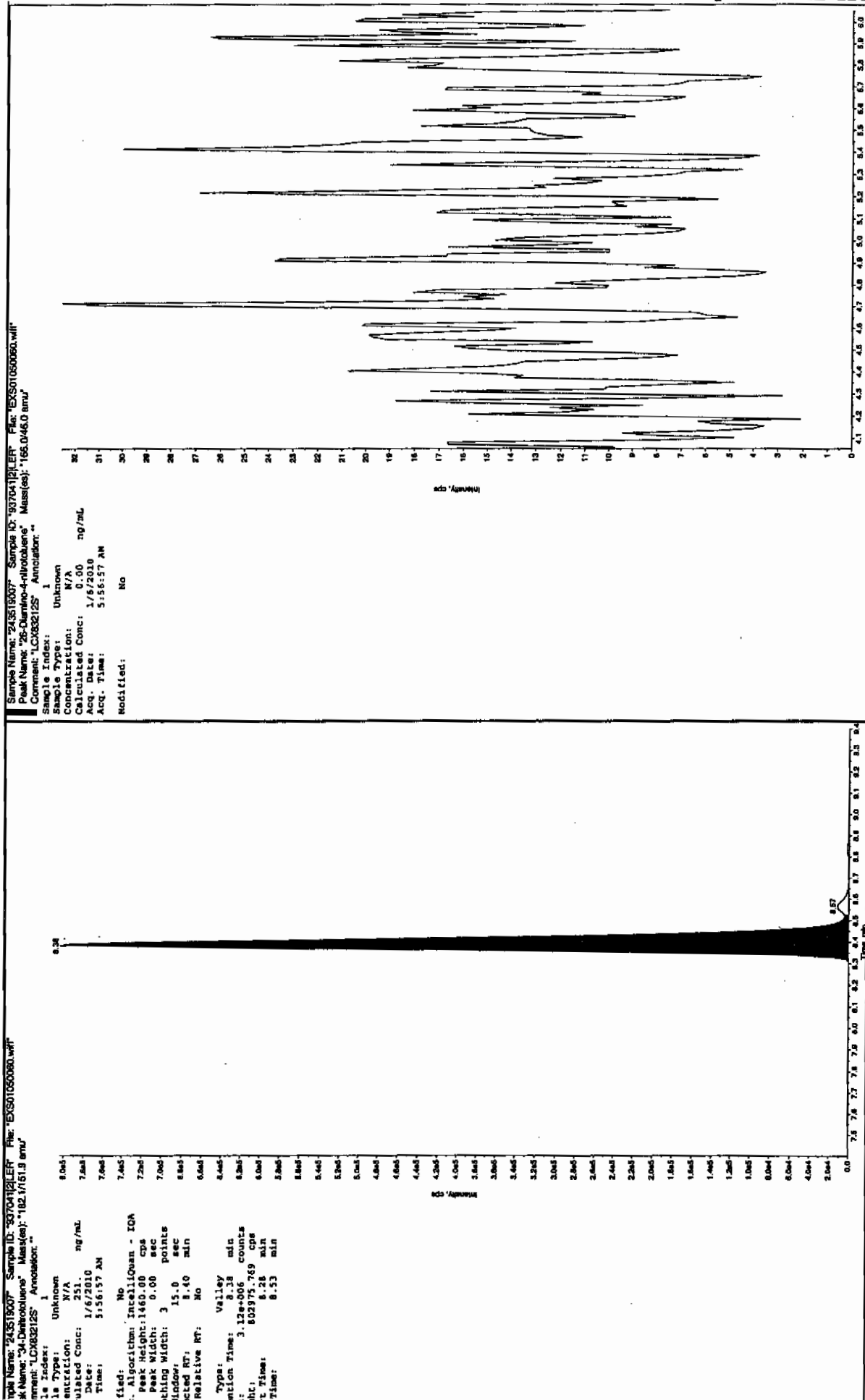
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

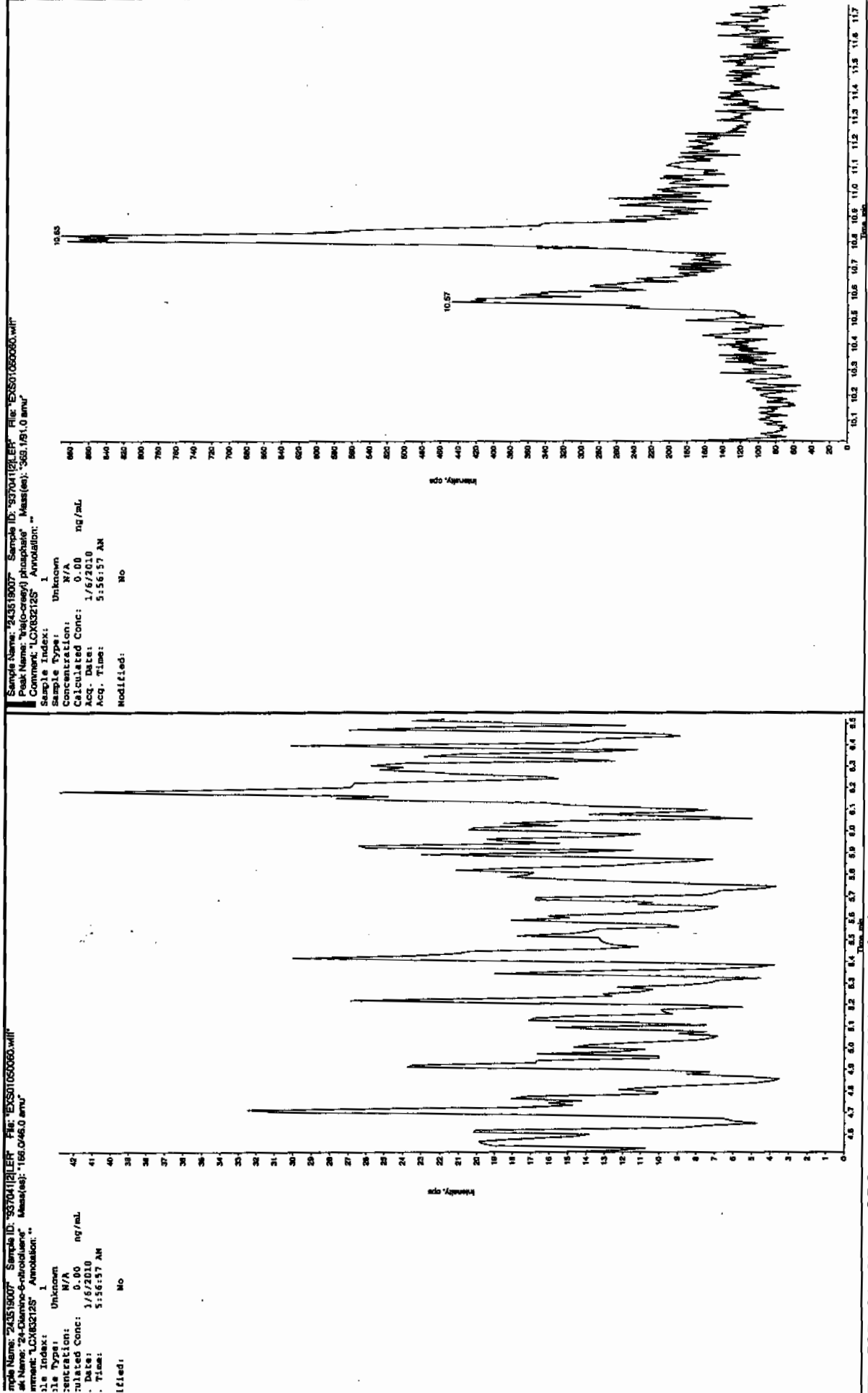
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor



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



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



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7602

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105117a

Date Analyzed: 08-JAN-10 04:17

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0105117a

Date: 08-Jan-2010

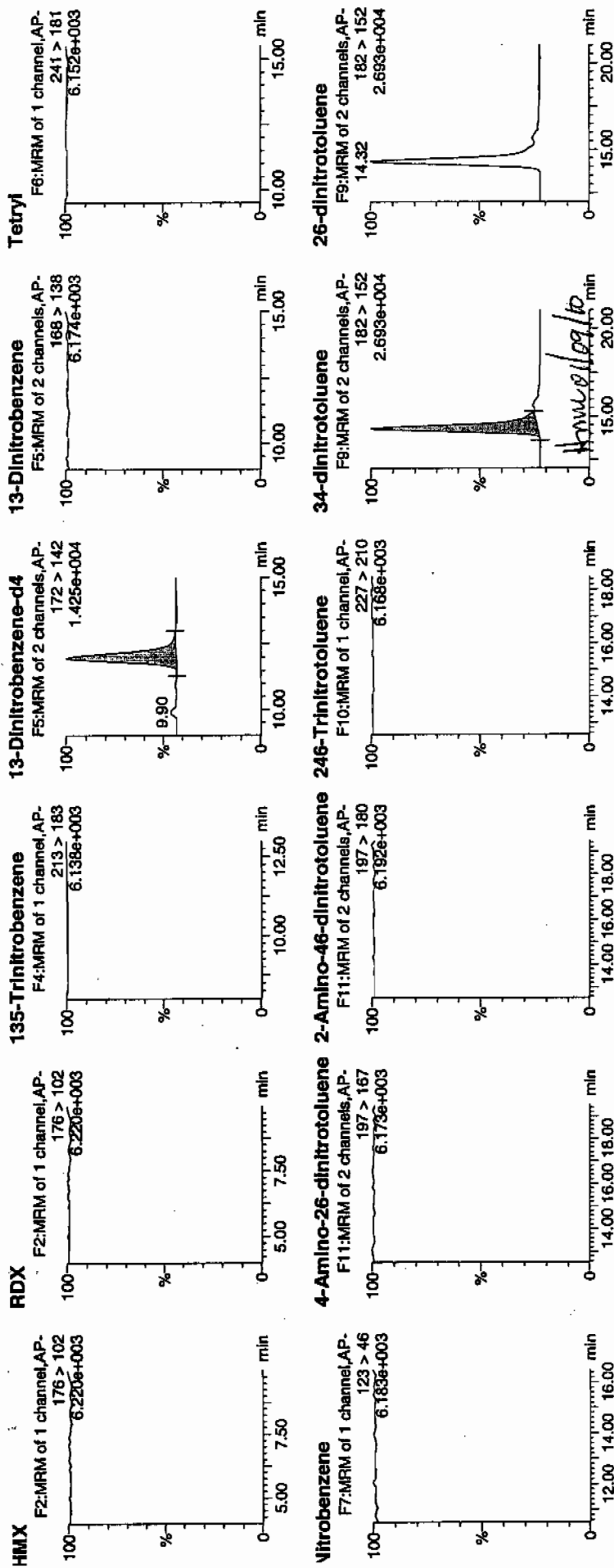
Time: 04:17:33

ID: 243519008

Vial: 3:4,A

14077
1/8/10

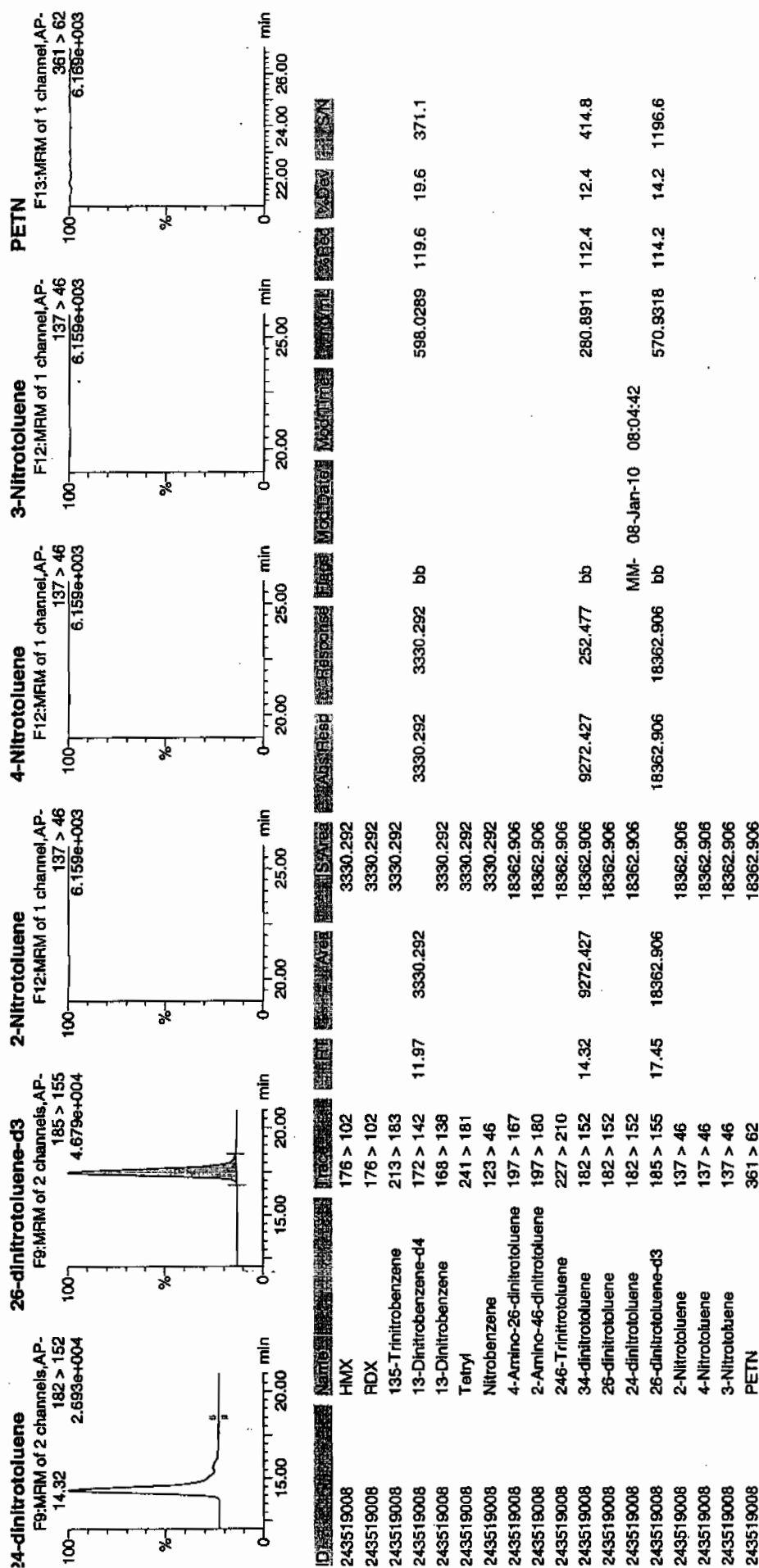
Handwritten: 939041 | 8022 | 21



Printed: Fri Jan 08 08:09:43 2010, Page 88 of 97

Quantify Sample Report
3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7602

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519008

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050061.wiff

Date Analyzed: 06-JAN-10 06:12

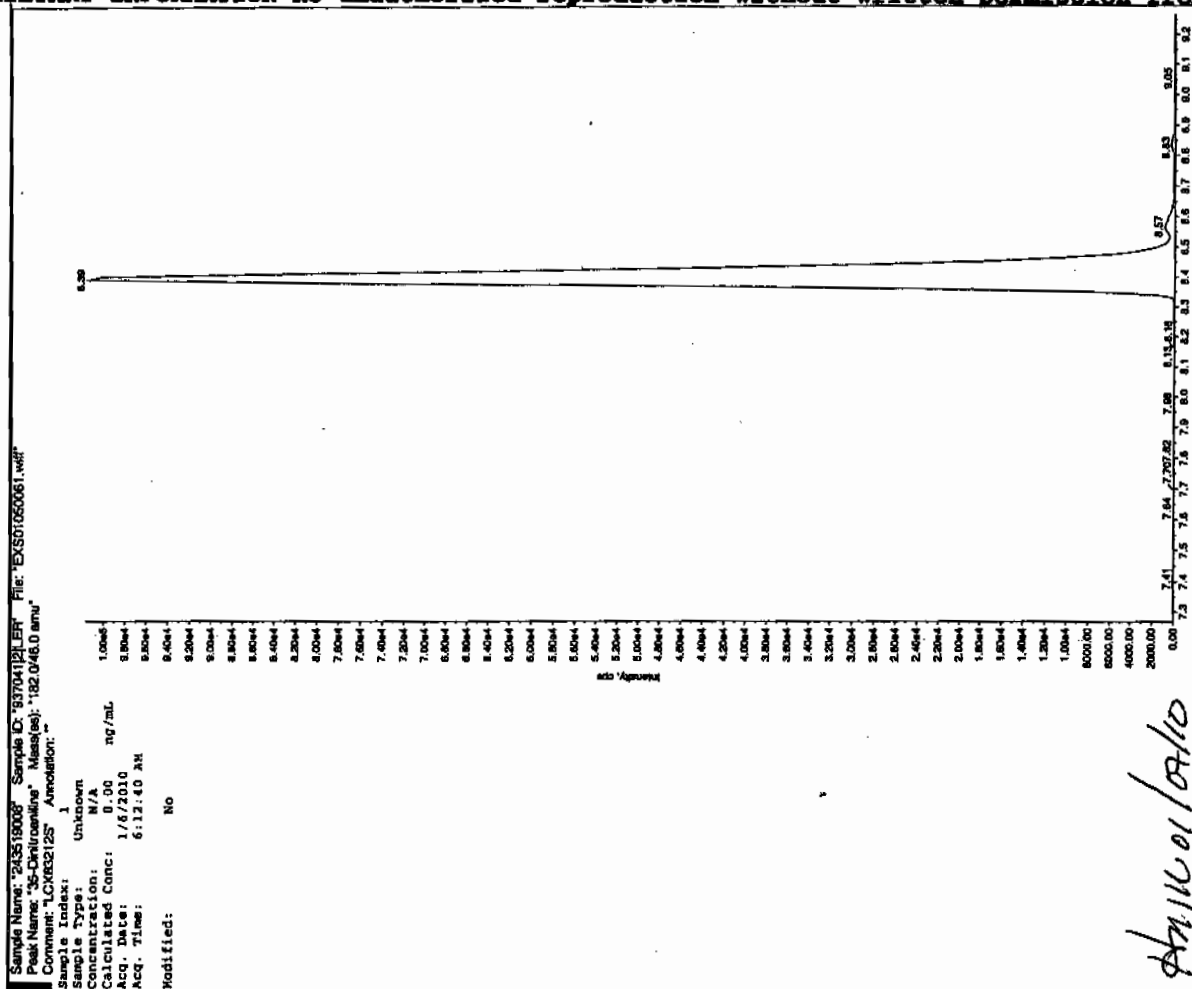
Units: ug/kg

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

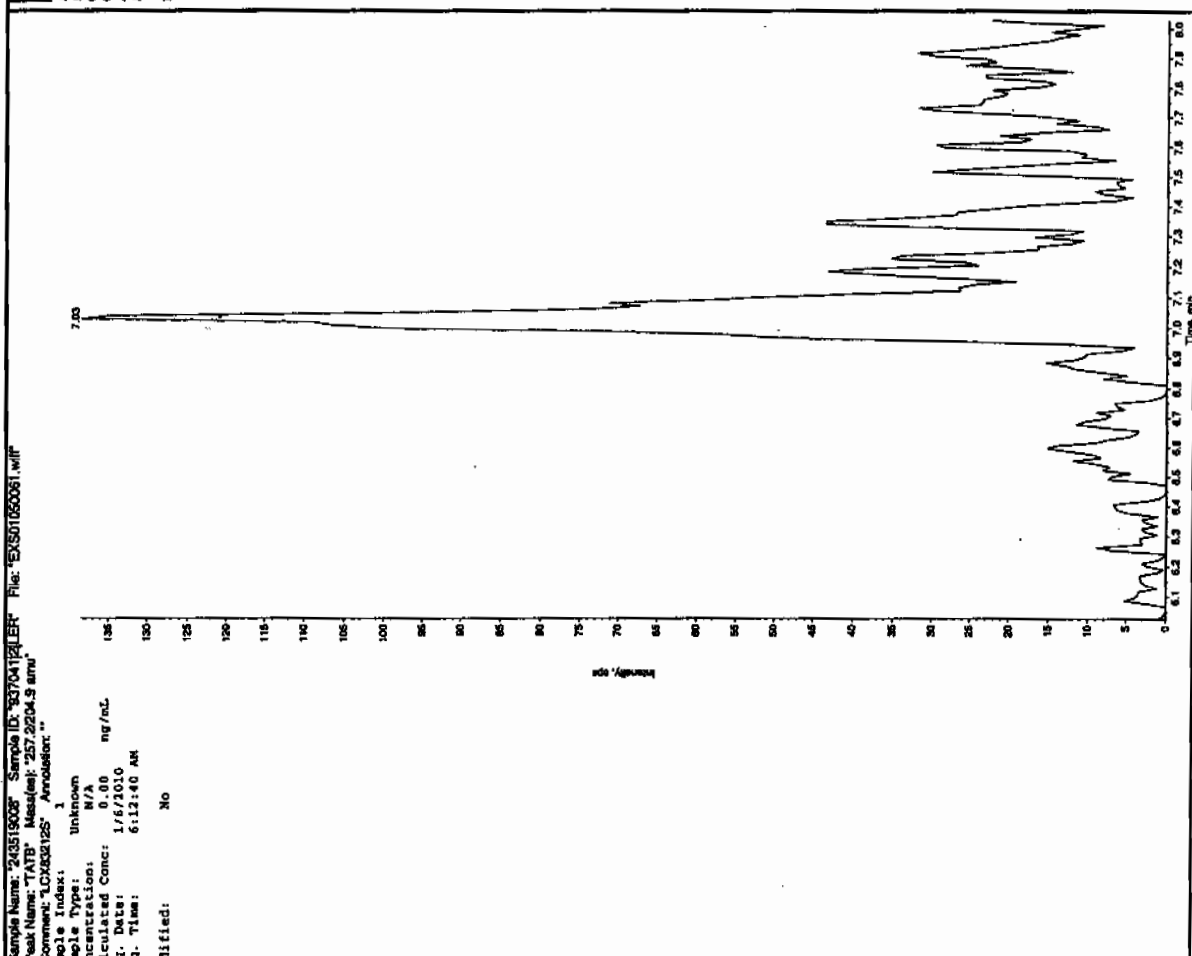
*Concentration =

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

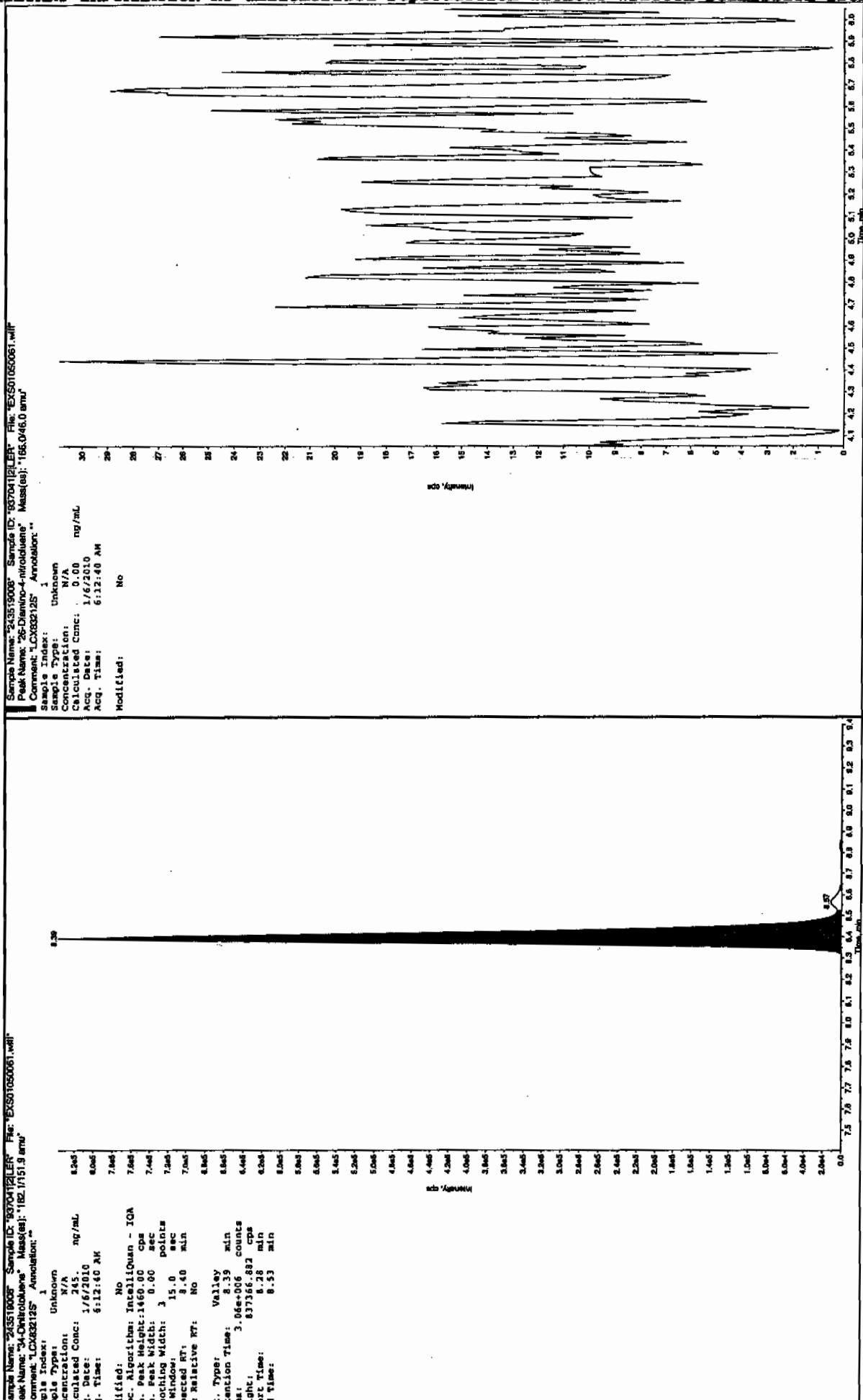
01/11/10
2342



01/11/10



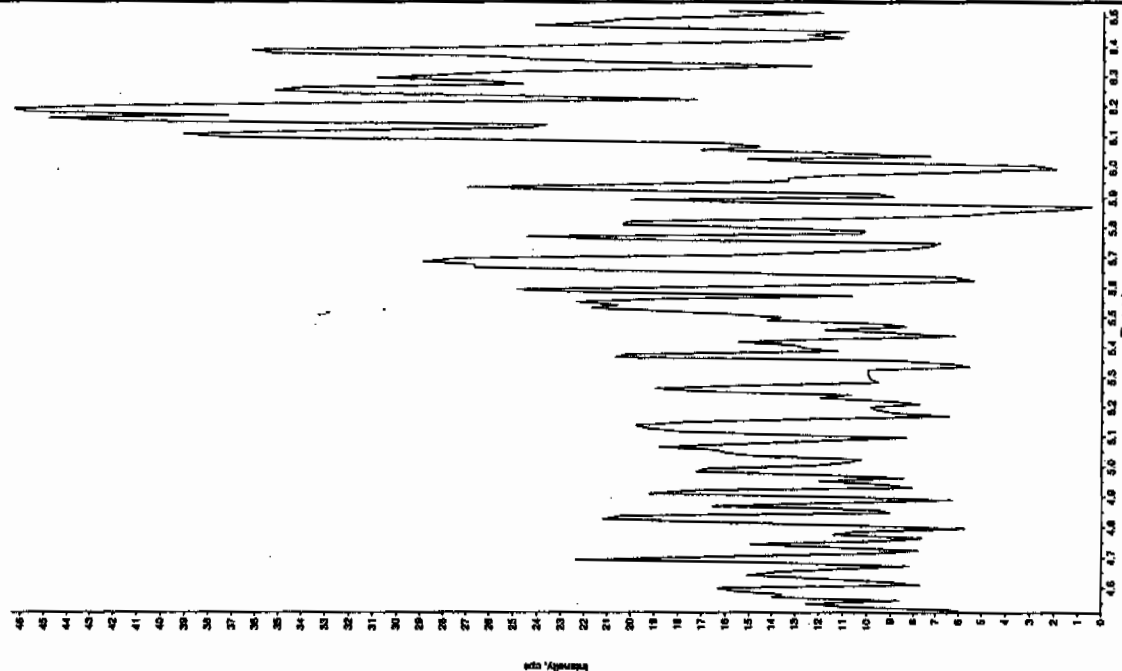
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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

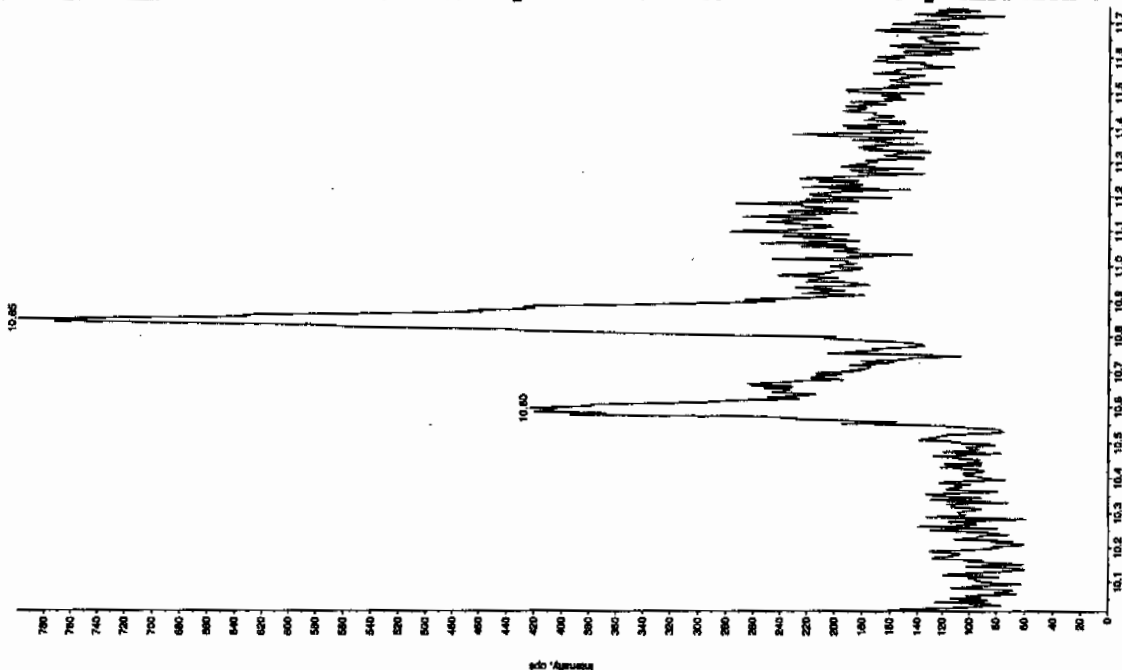
Sample Name: "243518008" Sample ID: "83704128.EPR" File: "EX501050081.wif"
 Peak Name: "24-Chloro-6-ethylthiopyran" Mass(es): "168.0468.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:12:40 AM
 Modified: No



Sample Name: "243518008" Sample ID: "83704128.EPR" File: "EX501050081.wif"
 Peak Name: "Tri(O-creyl) phosphite" Mass(es): "368.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:12:40 AM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7599

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105118a

Date Analyzed: 08-JAN-10 04:47

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\1010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105118a

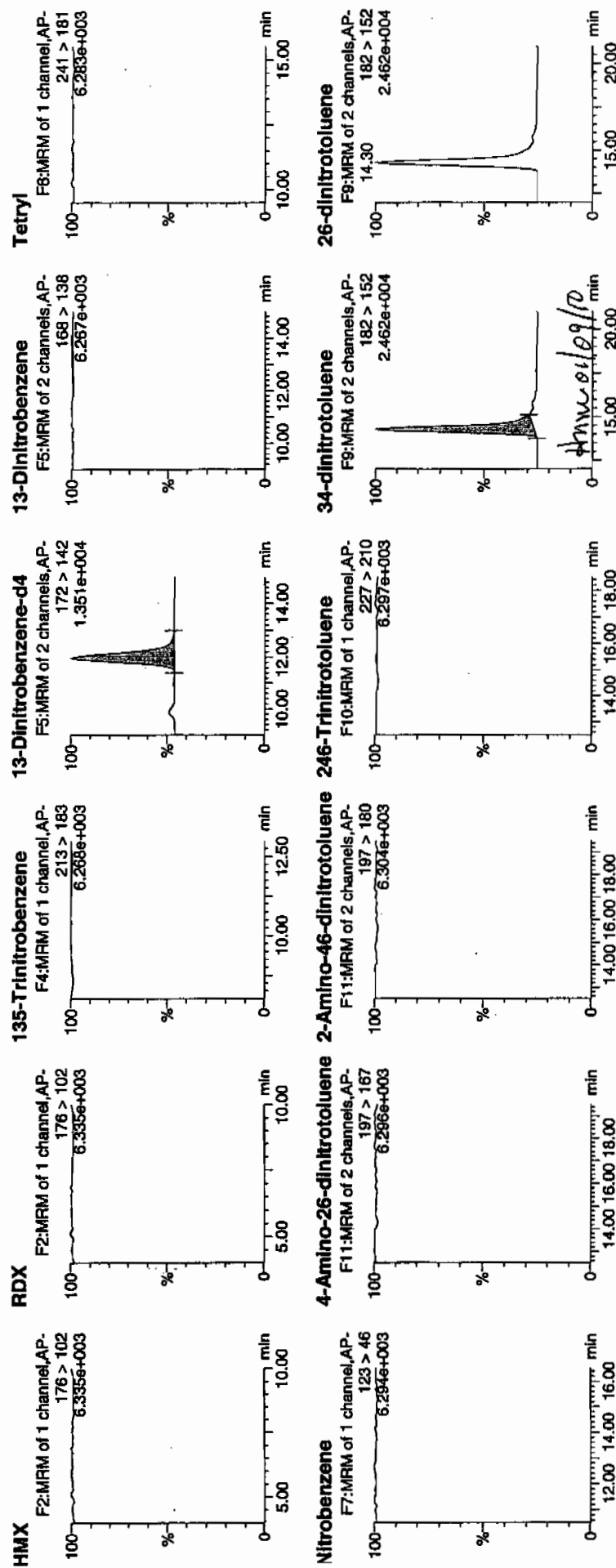
Date: 08-Jan-2010

Time: 04:47:03

ID: 243519009

Vial: 3:4.B

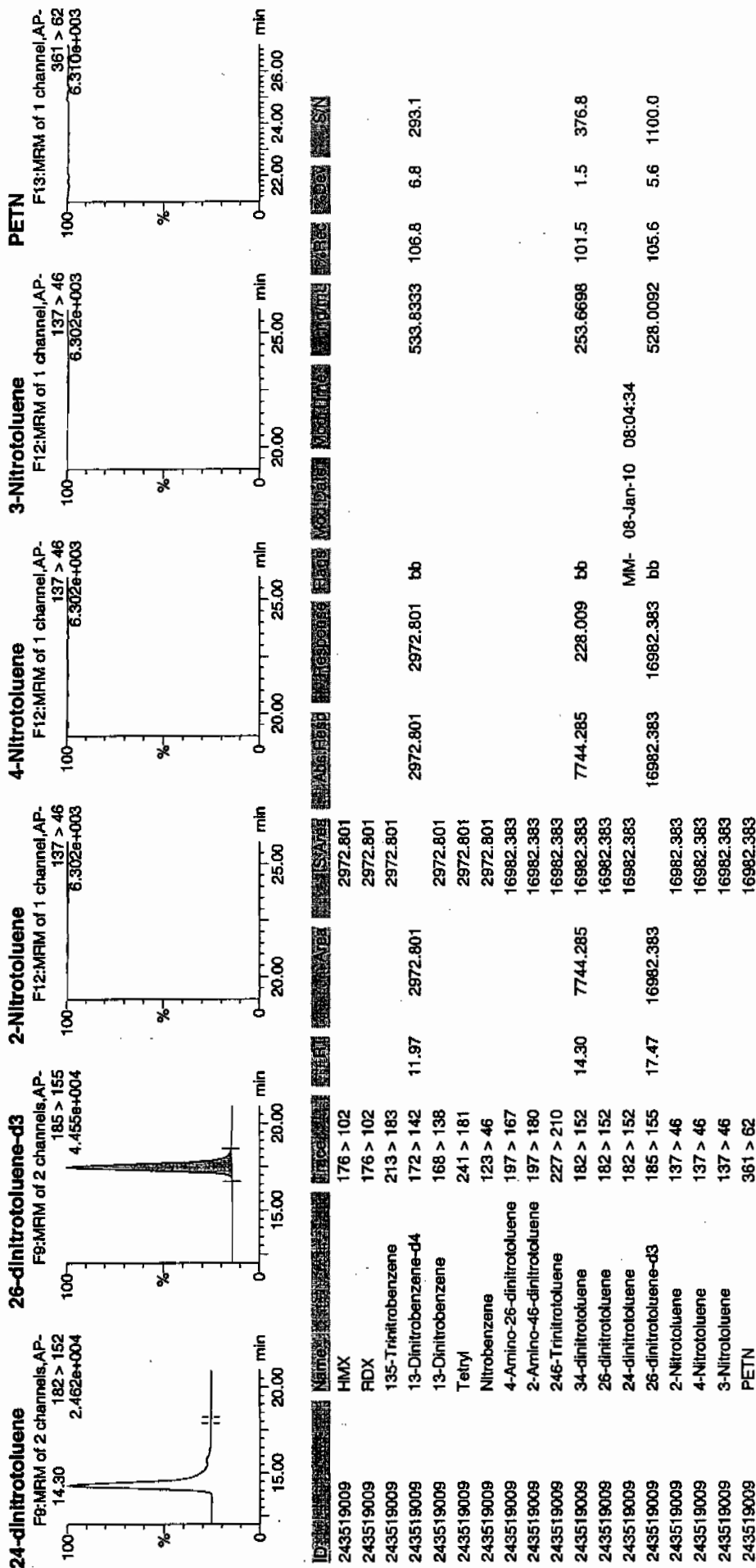
1077
 1/9/10
 LANE 937041 / 2002 / 21



Printed: Fri Jan 08 08:09:43 2010, Page 90 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7599

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050062.wiff

Date Analyzed: 06-JAN-10 06:28

Units: ug/kg

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

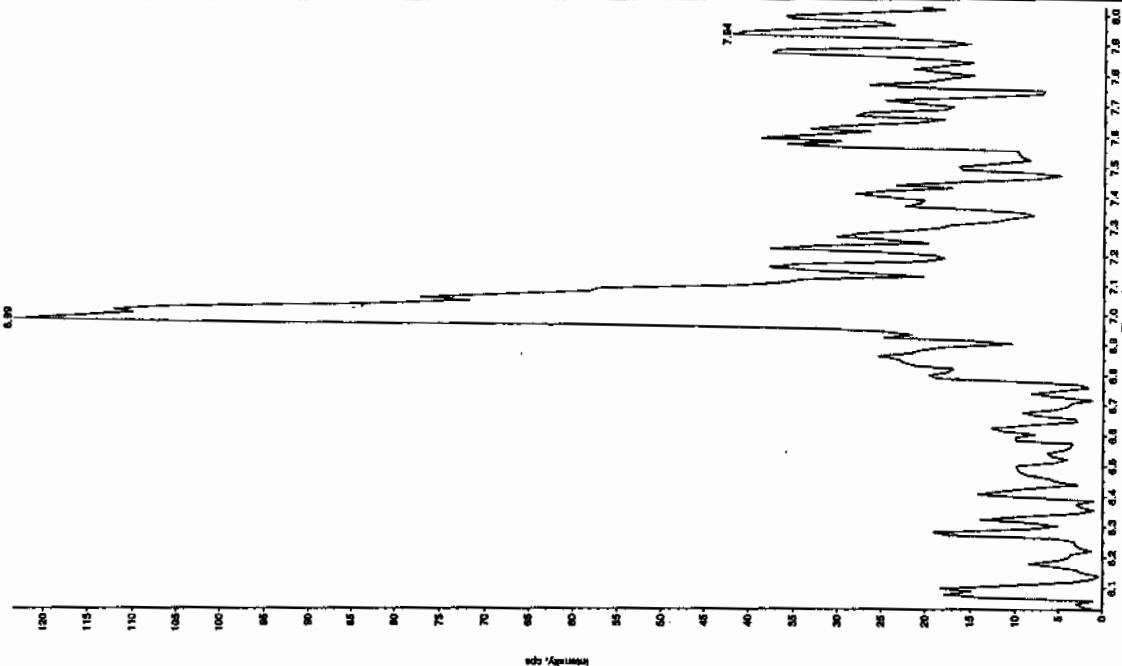
*Concentration =

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

11/11/10
GEL

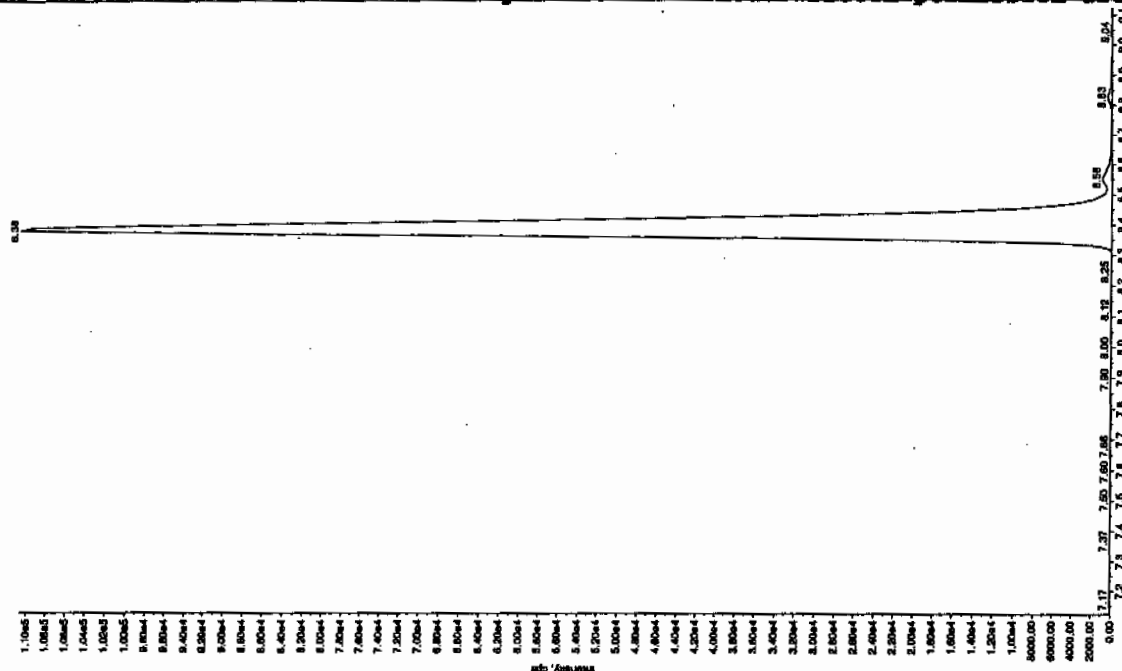
Sample Name: "243519009" Sample ID: "30704121.ER" File: "EX501050082.wif"
Peak Name: "TATB" Mass(es): 257.2204.9 amu
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:28:23 AM
Modified: No

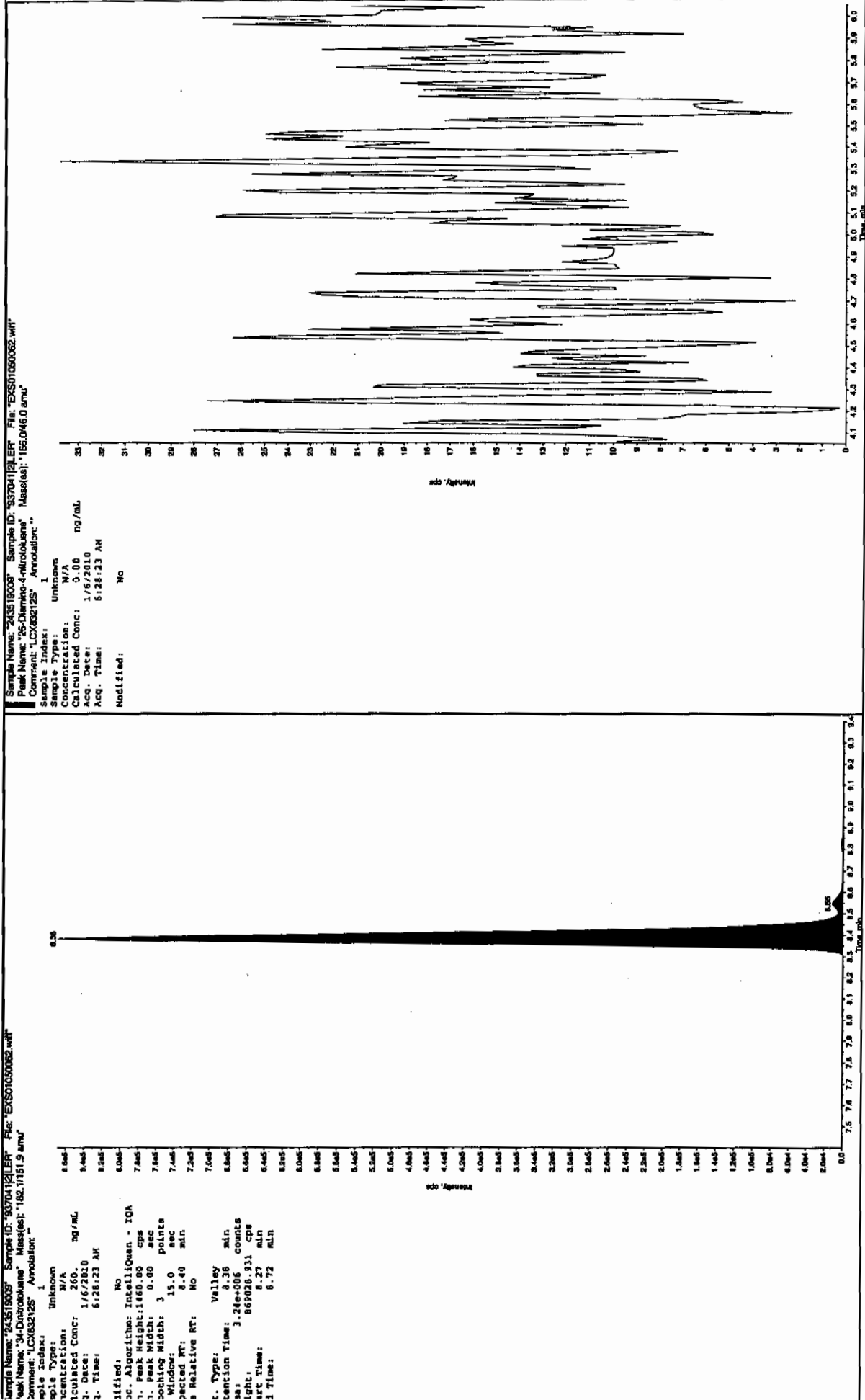


Sample Name: "243519009" Sample ID: "30704121.ER" File: "EX501050082.wif"
Peak Name: "3S-Dinitroaniline" Mass(es): 182.0461.0 amu
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/4/2010
Acq. Time: 6:28:23 AM
Modified: Yes



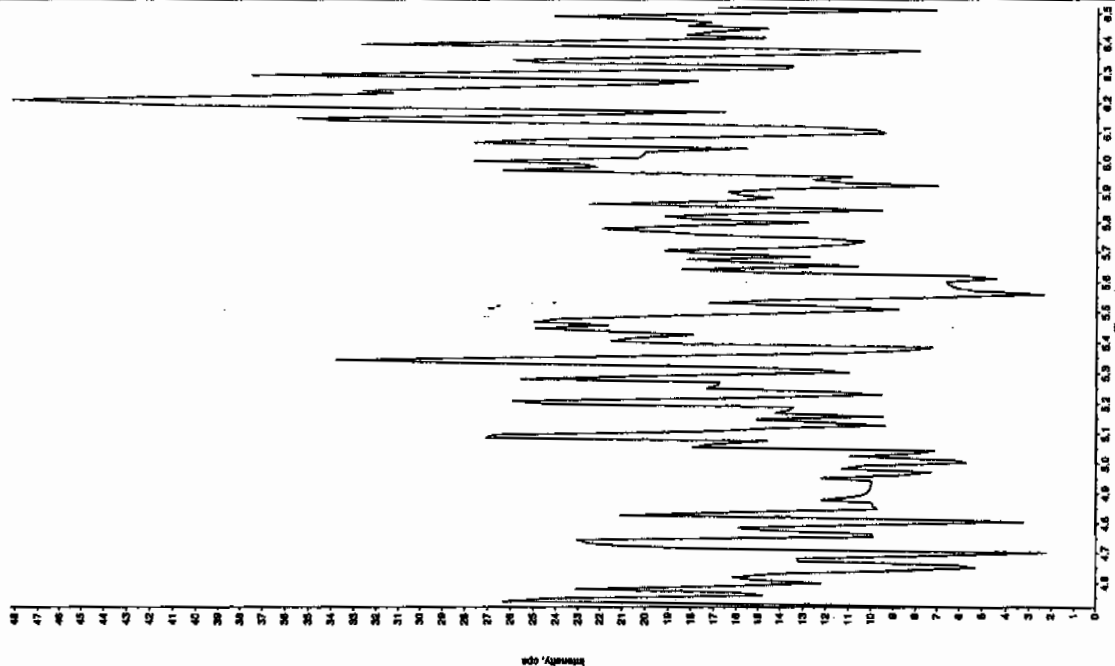
Hum 01/07/10



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

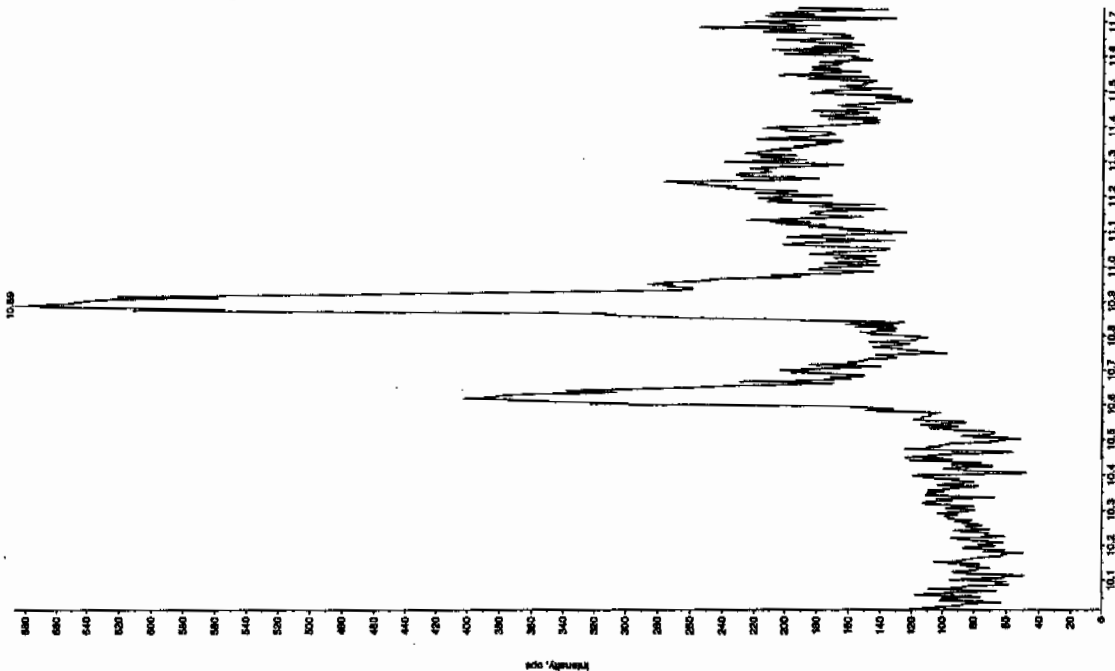
Sample Name: "243519009" Sample ID: "9370412121" File: "EX501050062.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "165.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:28:23 AM
 Modified: No



Sample Name: "243519009" Sample ID: "9370412121" File: "EX501050062.wif"
 Peak Name: "Tri(o-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: 1/6/2010
 Acq. Time: 6:28:23 AM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7598

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519010

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108016a

Date Analyzed: 09-JAN-10 00:37

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0108016a

Date: 09-Jan-2010

Time: 00:37:31

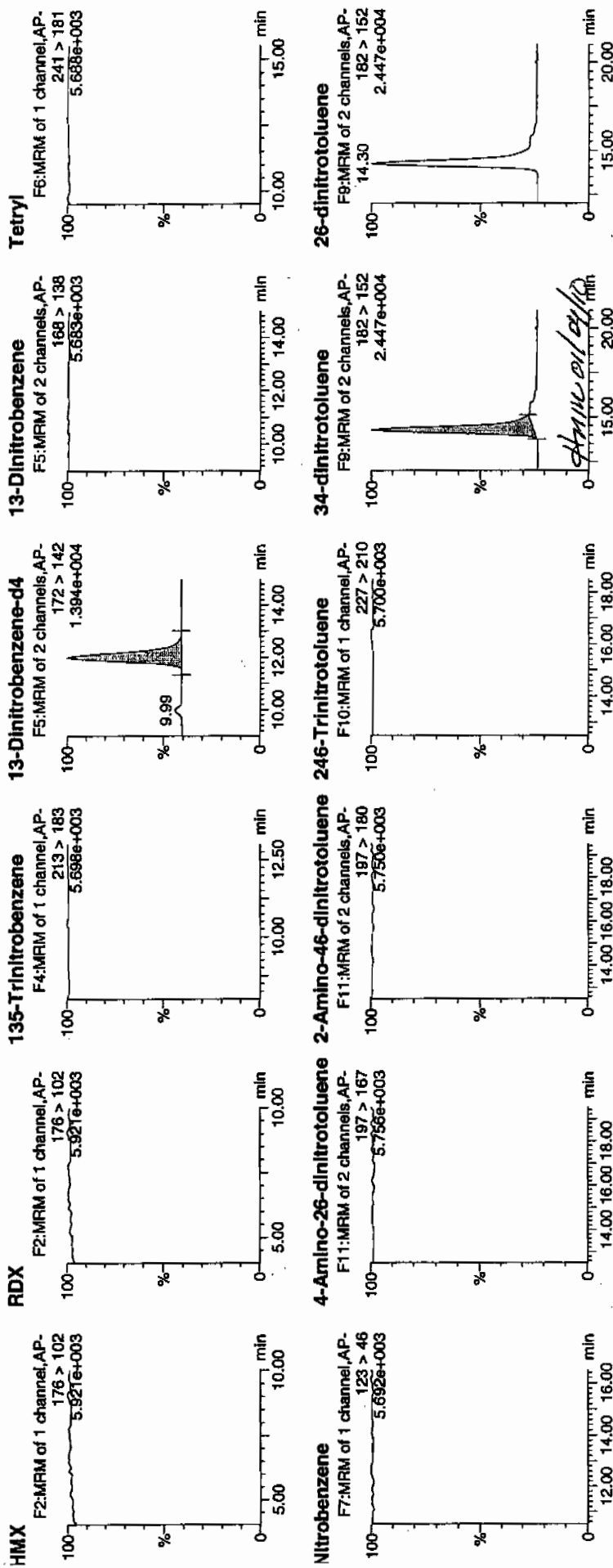
ID: 243519010

Vial: 1:4,D

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937041 / 21

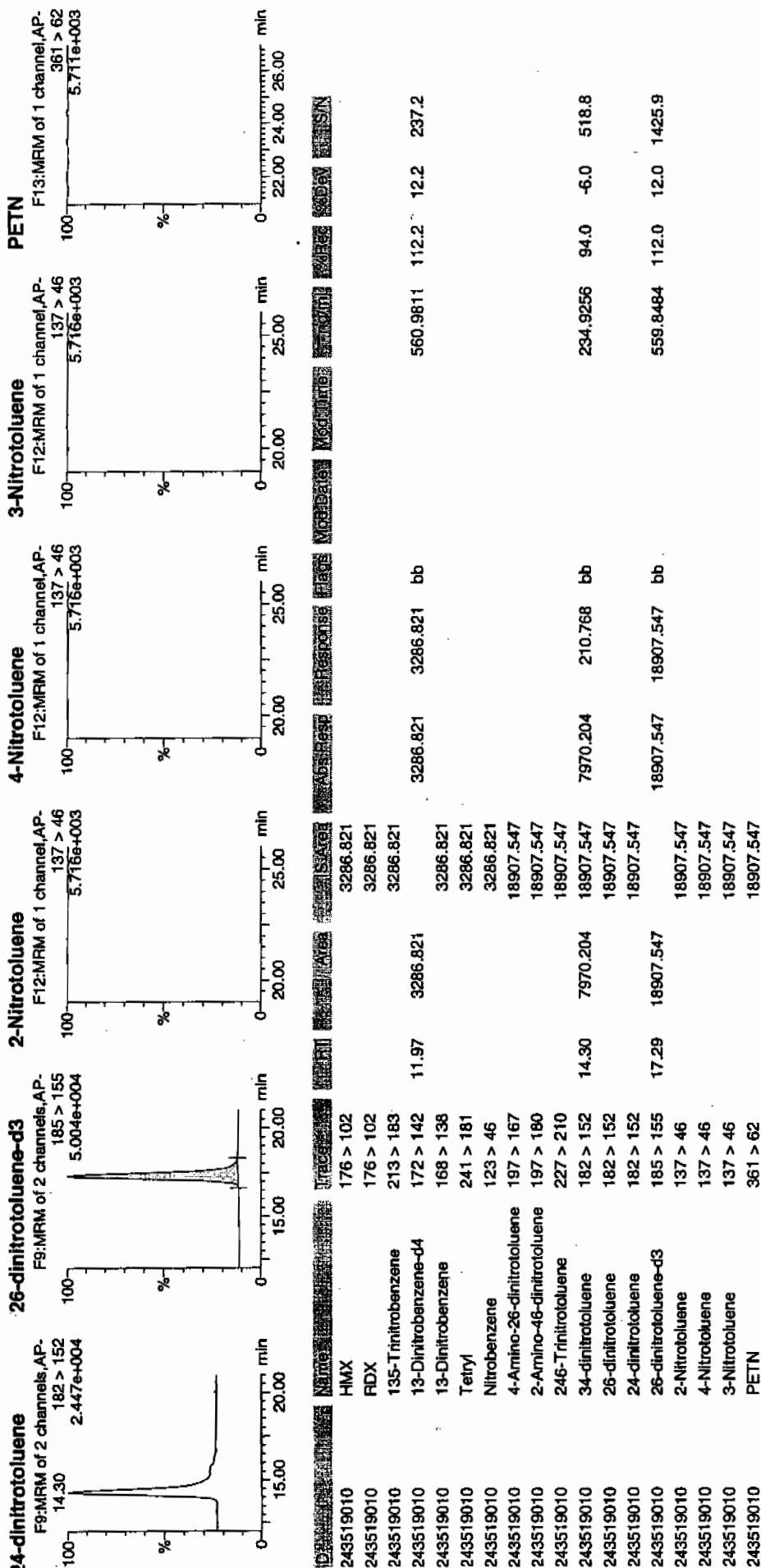
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Printed: Sat Jan 09 12:02:23 2010, Page 32 of 61

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

Dataset: C:\MASSLYNX\New_Exp\PRO1010810expA.qld, Time: Sat Jan 09 12:01:37 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7598

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050066.wiff

Date Analyzed: 06-JAN-10 07:31

Units: ug/kg

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

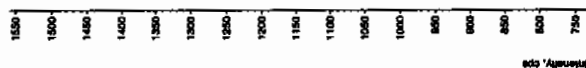
*Concentration =

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

11/2/10
2008

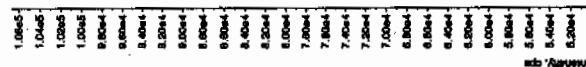
Sample Name: "243519010" Sample ID: "83704121ER" File: "EXS01050066.wif"
Peak Name: "TATB" Mass(es): 257.2204.9 amu
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 7:31:13 AM
Modified: No



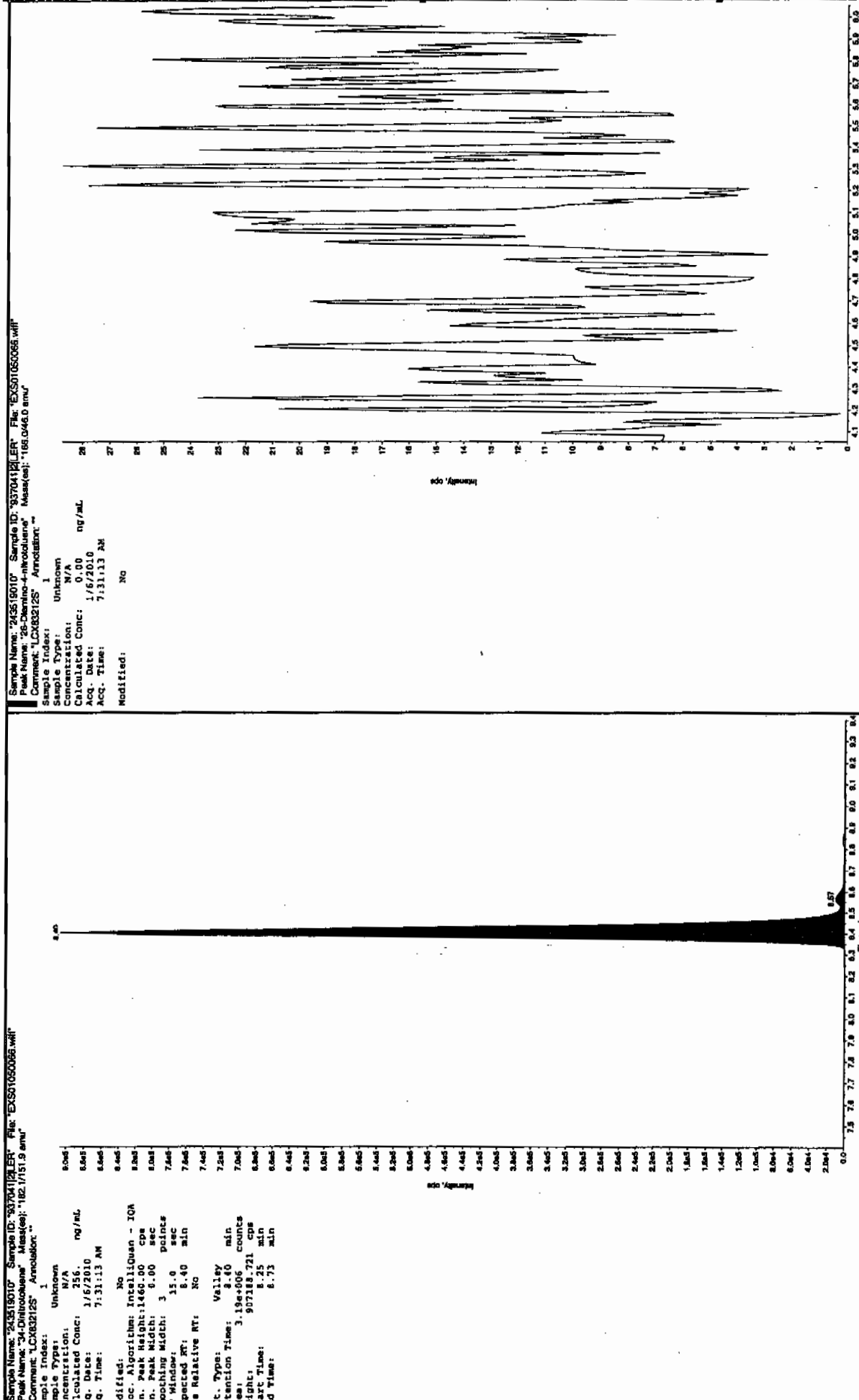
Sample Name: "243519010" Sample ID: "83704121ER" File: "EXS01050066.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 7:31:13 AM
Modified: No

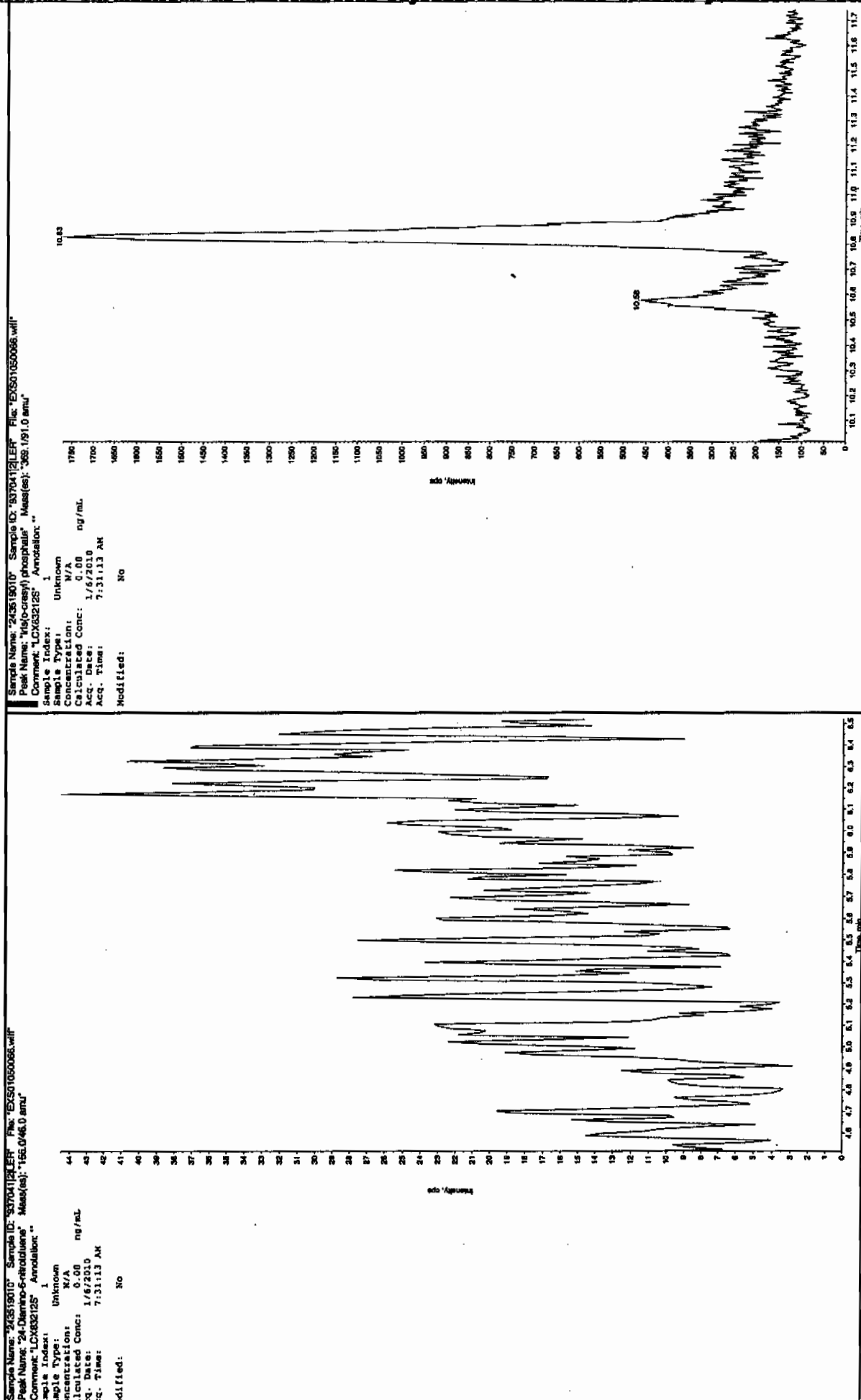


IEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

June 01/02/10



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



3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7603

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108017a

Date Analyzed: 09-JAN-10 01:07

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\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108017a

Date: 09-Jan-2010

Time: 01:07:00

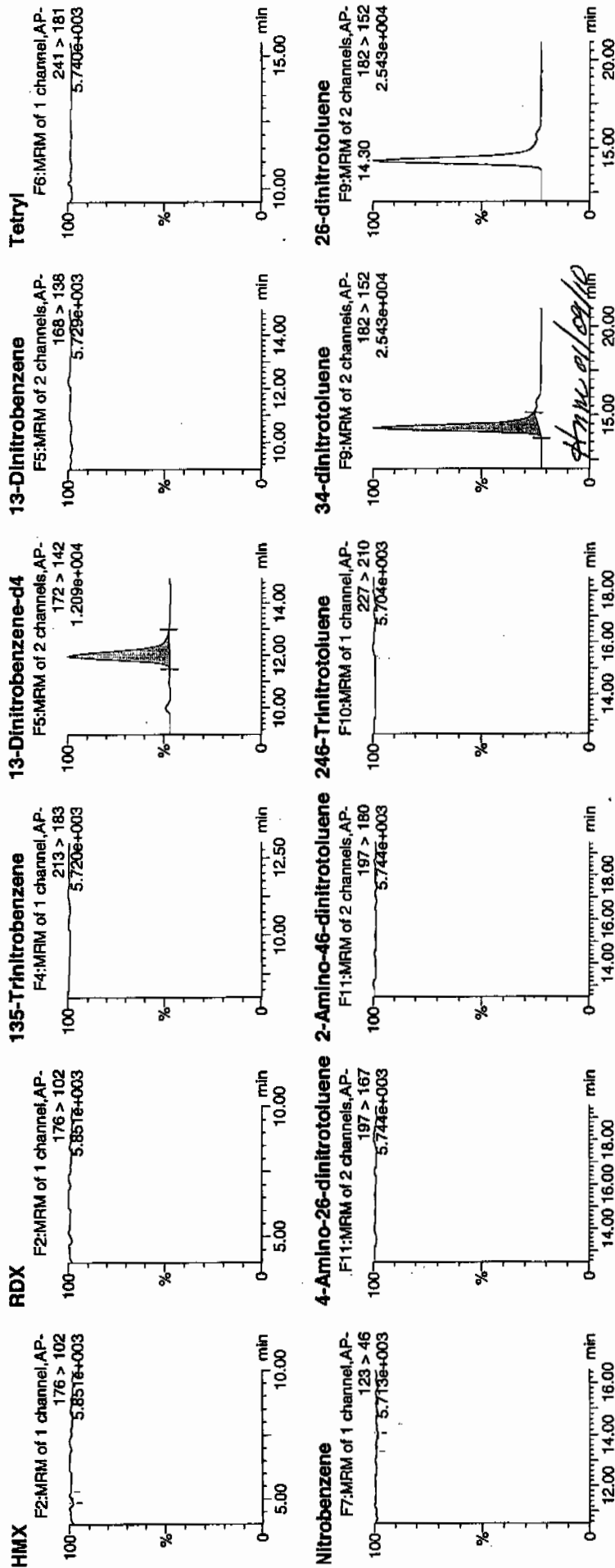
ID: 243519011

Vial: 1-4,E

1/9/10

WAV 937041 / 8022 / 21

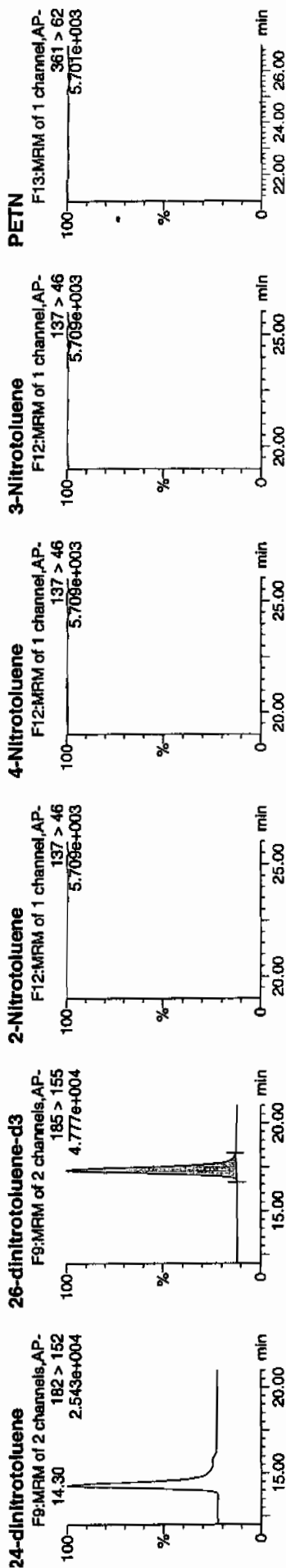
Page 228 of 595



Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



ID#	Name	Trace #	Area	Saved	Mz Abs Resp	Response Rate	Mod Date	Mod Time	% Ion1	% Rec	% Dev	S/N
243519011	HMX	176 > 102		2514.585			MM- 09-Jan-10	11:46:51				
243519011	RDX	176 > 102		2514.585								
243519011	135-Trinitrobenzene	213 > 183		2514.585								
243519011	13-Dinitrobenzene-d4	172 > 142	11.97	2514.585	2514.585	bb			429.1790	85.8	-14.2	92.7
243519011	13-Dinitrobenzene	168 > 138		2514.585								
243519011	Tetryl	241 > 181		2514.585								
243519011	Nitrobenzene	123 > 46		2514.585			MM- 09-Jan-10	11:50:07				
243519011	4-Amino-26-dinitrotoluene	197 > 167		17958.652								
243519011	2-Amino-46-dinitrotoluene	197 > 180		17958.652								
243519011	246-Tritnitrotoluene	227 > 210		17958.652								
243519011	34-dinitrotoluene	182 > 152	14.30	8105.238	8105.238	bb			251.5290	100.6	0.6	265.3
243519011	26-dinitrotoluene	182 > 152		17958.652								
243519011	24-dinitrotoluene	182 > 152		17958.652								
243519011	26-dinitrotoluene-d3	185 > 155	17.29	17958.652	17958.652	bb			531.7518	106.4	6.4	987.1
243519011	2-Nitrotoluene	137 > 46		17958.652								
243519011	4-Nitrotoluene	137 > 46		17958.652								
243519011	3-Nitrotoluene	137 > 46		17958.652								
243519011	PETN	361 > 62		17958.652								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7603

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 243519011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 24-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050067.wiff

Date Analyzed: 06-JAN-10 07:46

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

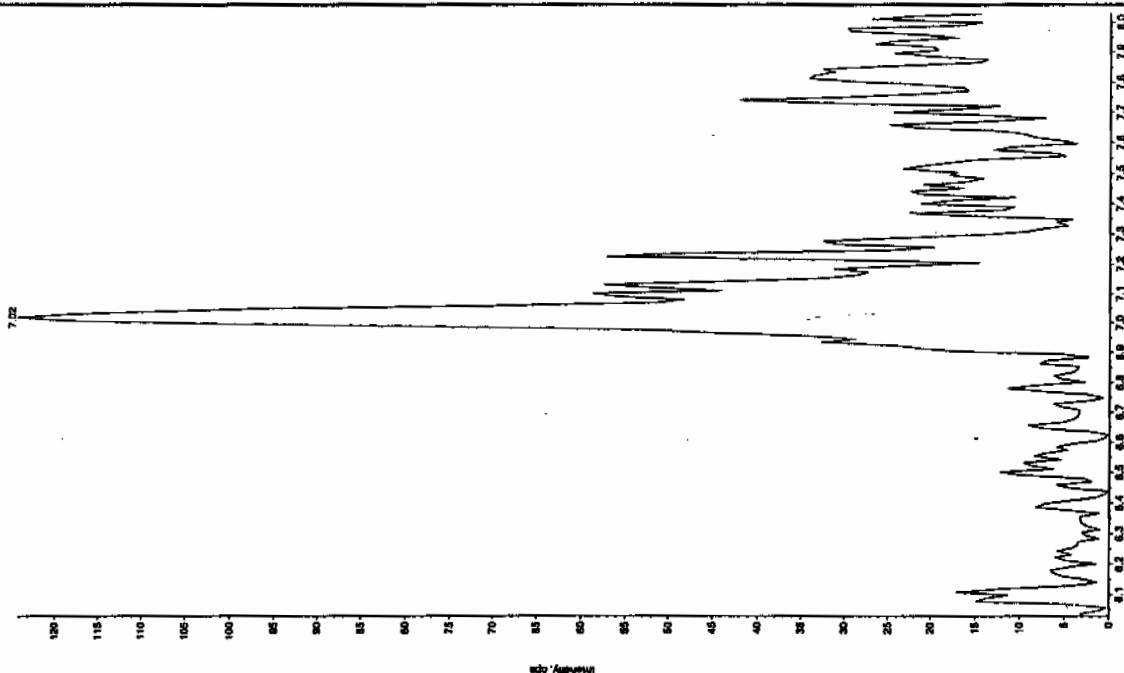
*Concentration =

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

8/2/10

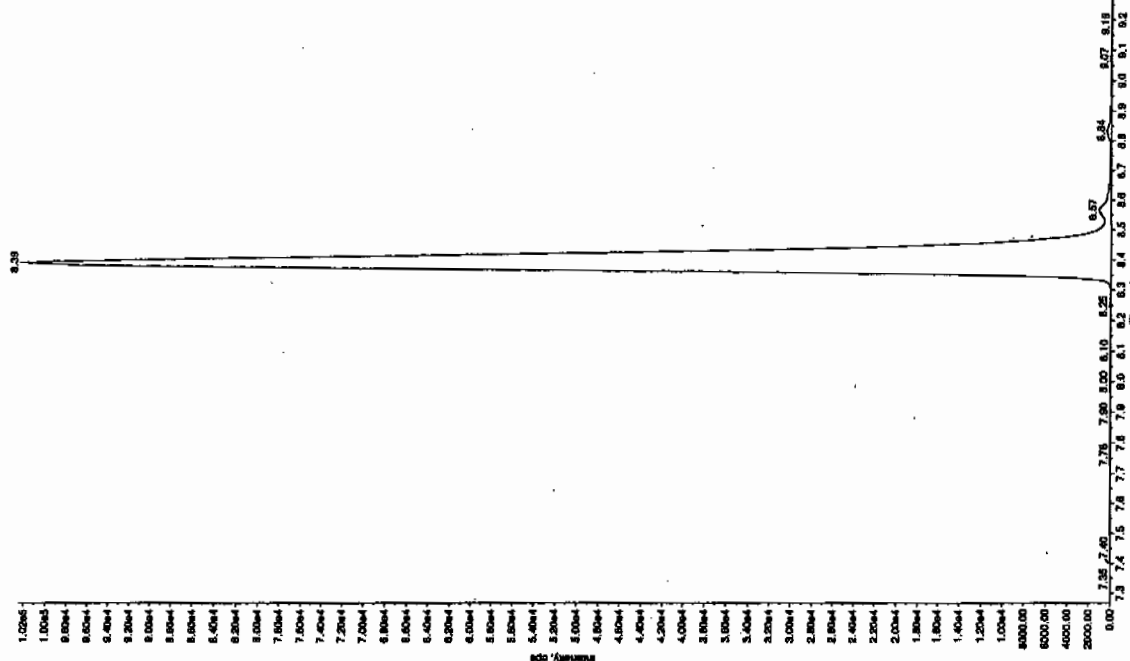
Sample Name: "243519011" Sample ID: "83704121" File: "EX501050067.wif"
 Peak Name: "TATE" Mass(es): "257.2004.9 and
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:46:56 AM
 Modified: No



Sample Name: "243519011" Sample ID: "83704121" File: "EX501050067.wif"
 Peak Name: "35-Dimethylnone" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: "

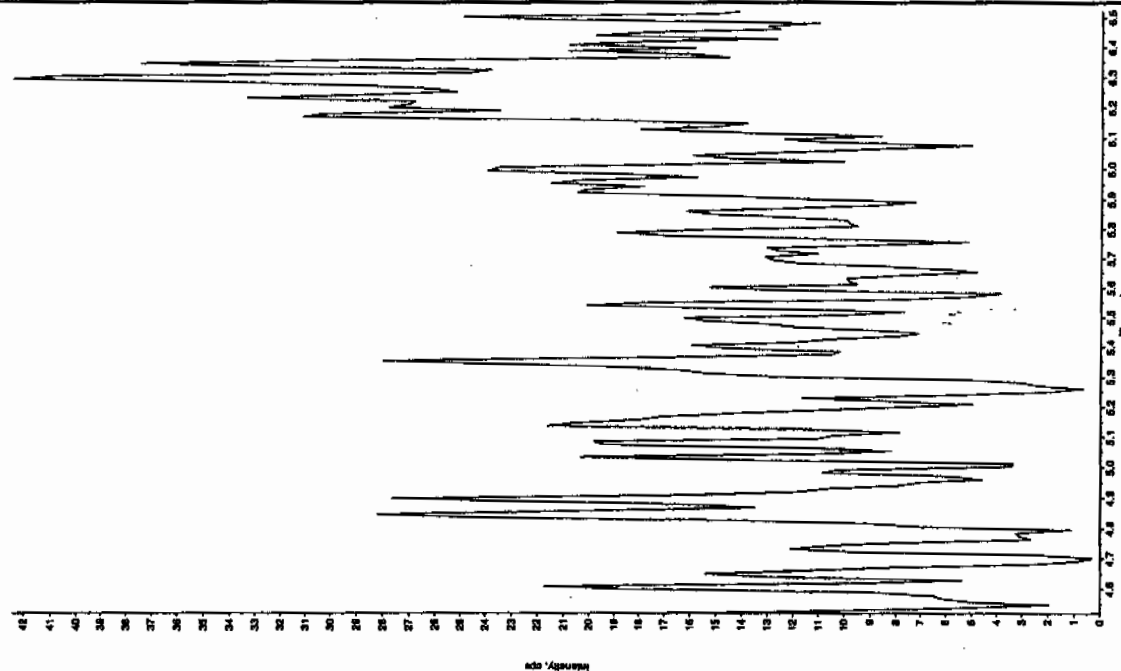
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:46:56 AM
 Modified: No



8/2/10

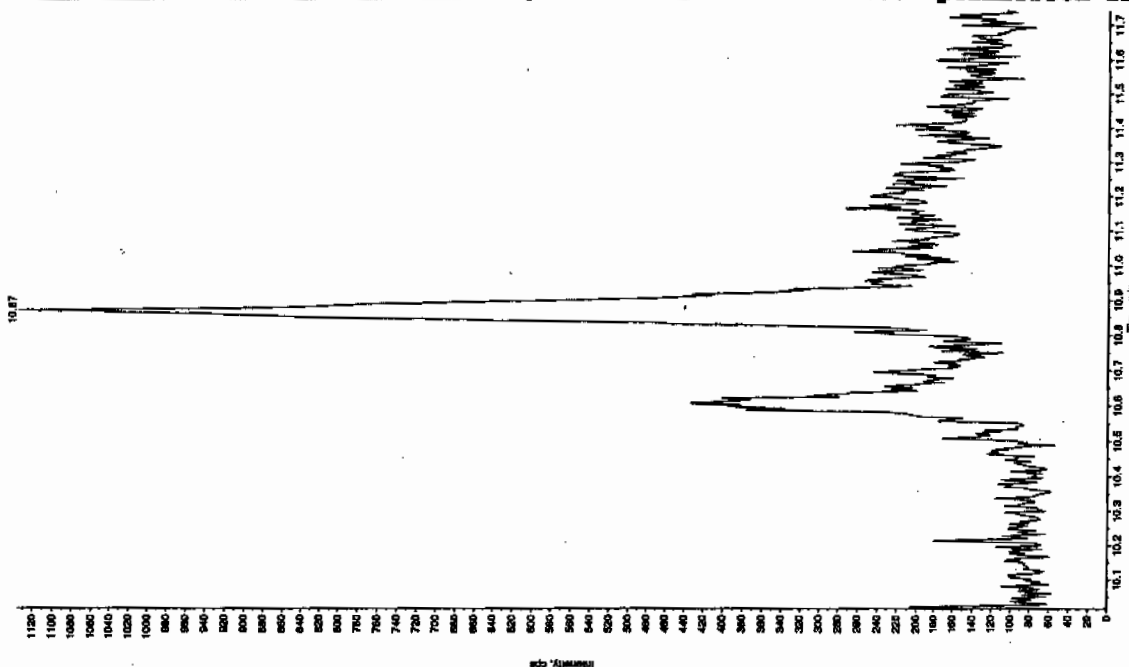
Sample Name: "243519011" Sample ID: "83704121L1" File: "E5801050057.wif"
 Peak Name: "24-Diamino-6-alkoxyphenol" Mass(es): "166.044.0 and"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:46:56 AM
 Modified: No



Sample Name: "243519011" Sample ID: "83704121L1" File: "E5801050057.wif"
 Peak Name: "bis(2-oxo-1,2,3,4-tetrahydropyridin-5-yl) phosphine" Mass(es): "398.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:46:56 AM
 Modified: No



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

STANDARDS DATA

SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels

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

All values are ug/L without the prep factor

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

Calibration Levels 8321A-Modified-EXPL.xls

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1074

Lab Code: GEL

Run Date: 05-JAN-10 08-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0105003a	EXP0105004a	EXP0105005a	EXP0105006a	EXP0105007a	EXP0105008a			
Data File:									
1,3-Dinitrobenzene-d4	5.947	5.846	6.001	5.669	4.9	5.05	5.569	8.545	
2,4,6-Trinitrotoluene	.362	.363	.325	.327	.366	.363	0.351	5.53	
2,4-Dinitrotoluene	.29	.265	.26	.253	.255	.264	0.265	5.074	
2,6-Dinitrotoluene	1.048	1.117	1.032	1.086	1.078	1.096	1.076	2.921	
2,6-Dinitrotoluene-d3	33.333	34.252	35.081	32.174	28.367	29.771	32.163	8.153	
2-Amino-4,6-dinitrotoluene	.384	.355	.36	.401	.43	.443	0.396	9.109	
3,4-Dinitrotoluene	.747	.886	.922	.887	.968	.984	0.899	9.436	
4-Amino-2,6-dinitrotoluene	.257	.298	.254	.287	.309	.31	0.286	8.668	
HMX	3.489	3.464	3.59	3.982	3.95	4.191	3.778	8.019	
Nitrobenzene	1.073	1.013	.997	.976	1.018	1.031	1.018	3.224	
RDX	2.428	2.485	2.301	2.481	2.615	2.711	2.504	5.742	
m-Dinitrobenzene	1.624	1.023	1.131	1.188	1.221	1.281	1.245	16.525	
m-Nitrotoluene	.084	.104	.088	.102	.102	.092	0.095	9.075	
o-Nitrotoluene	.192	.167	.158	.168	.187	.173	0.174	7.339	
p-Nitrotoluene	.069	.08	.076	.083	.089	.08	0.080	8.409	

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

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1074

Lab Code: GEL

Run Date: 05-JAN-10.08-JAN-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:	EXP0105003a	EXP0105004a	EXP0105005a	EXP0105006a	EXP0105007a	EXP0105008a					
Parname:											
1,3,5-Trinitrobenzene	834.82	1405.29	4276.81	8323.66	14638.8	19893.9	3.097	.0007454	74.827	.9997	
PETN	2771.15	5704.23	18684.2	32195.9	51123.6	59749.9	2.865	-.0008448	9.915	.9991	
Tetryl	254.529	426.773	1417.82	2569.02	4145.67	5420.36	1.073	-.0000276	19.961	.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)

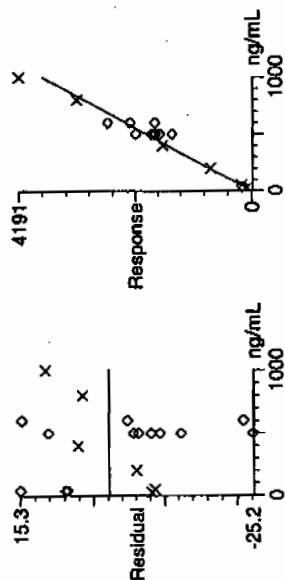
* Values outside of QC Limit

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

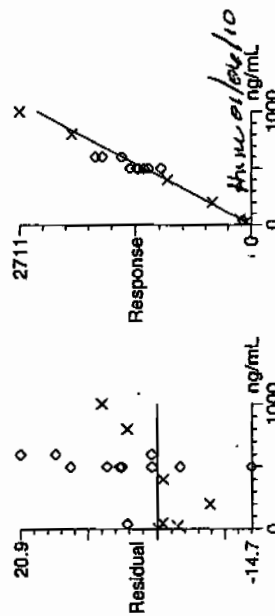
Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Method: C:\MASSLYNX\New_Exp.PROMethDB\010510expa.mdb, Time: Wed Jan 06 09:01:26 2010
Calibration: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: HMX
Response Factor: 3.7775
RRF SD: 0.302947, % Relative SD: 8.01923
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



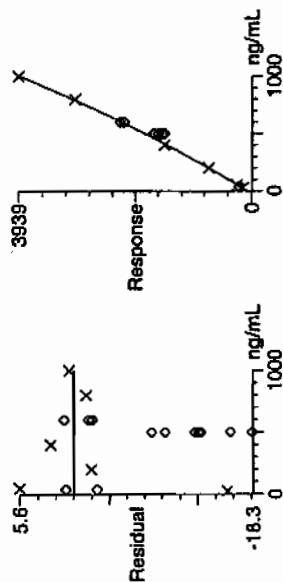
Compound name: RDX
Response Factor: 2.50334
RRF SD: 0.143736, % Relative SD: 5.74176
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



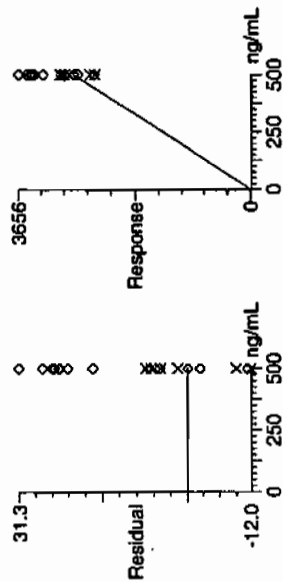
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: 135-Trinitrobenzene
Coefficient of Determination: 0.999681
Calibration curve: $0.000745442 \cdot x^2 + 3.09719 \cdot x + 74.8268$
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



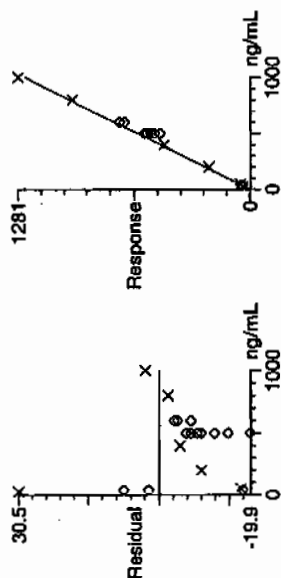
Compound name: 13-Dinitrobenzene-d4
Response Factor: 5.56878
RRF SD: 0.475861, % Relative SD: 8.54515
Response type: External Std, Area
Curve type: RF



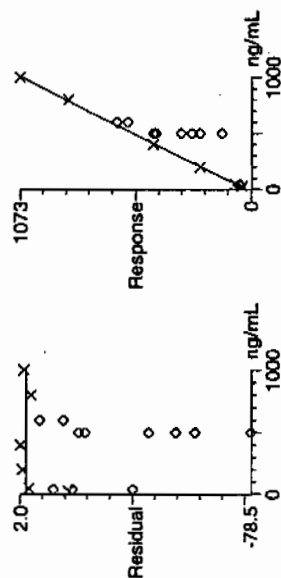
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.24452
RRF SD: 0.205661, % Relative SD: 16.5253
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

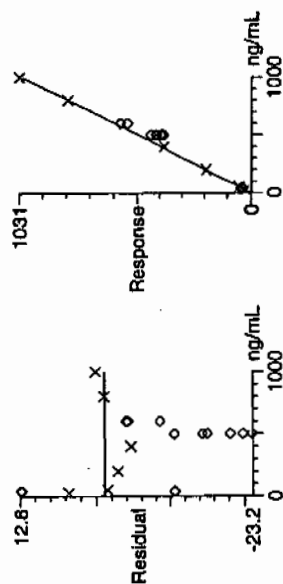


Compound name: Tetra
Coefficient of Determination: 0.999583
Calibration curve: $-2.75622e-005 \cdot x^2 + 1.07298 \cdot x + 19.9606$
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None

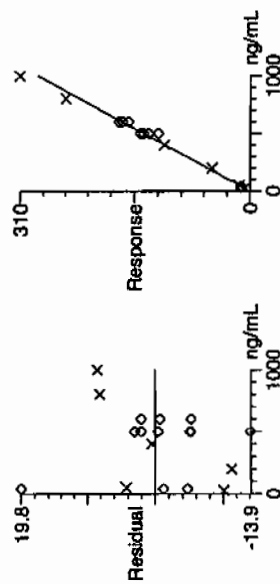


Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny
 Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: Nitrobenzene
 Response Factor: 1.01789
 RRF SD: 0.0328132, % Relative SD: 3.22365
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



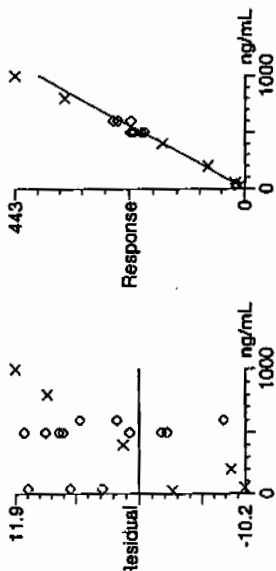
Compound name: 4-Amino-26-dinitrotoluene
 Response Factor: 0.28581
 RRF SD: 0.0247734, % Relative SD: 8.66779
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



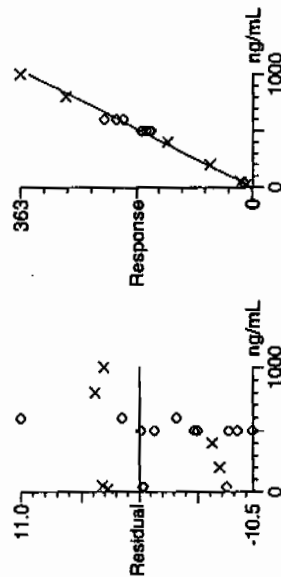
uantify Calibration Report
EL Laboratories, LLC / Analyst : Michael A. Penny

atases: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.39565
RF SD: 0.0360404, % Relative SD: 9.10918
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



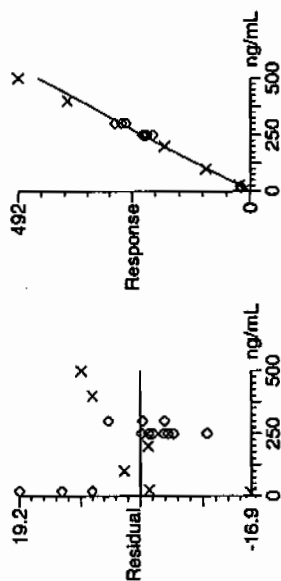
Compound name: 246-Trinitrotoluene
Response Factor: 0.351001
RF SD: 0.019412, % Relative SD: 5.53046
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



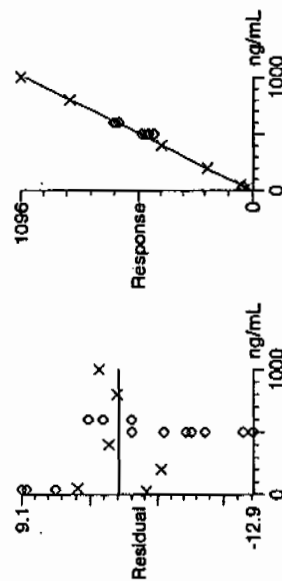
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: 34-dinitrotoluene
Response Factor: 0.898843
RRF SD: 0.0848111, % Relative SD: 9.43558
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



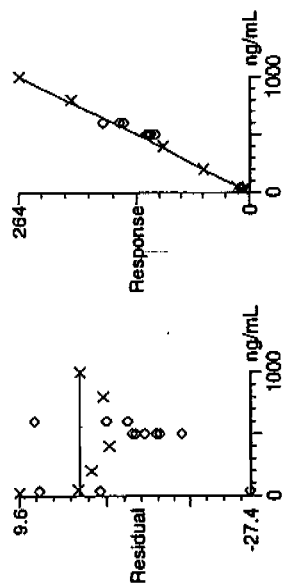
Compound name: 26-dinitrotoluene
Response Factor: 1.07604
RRF SD: 0.0314275, % Relative SD: 2.92066
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



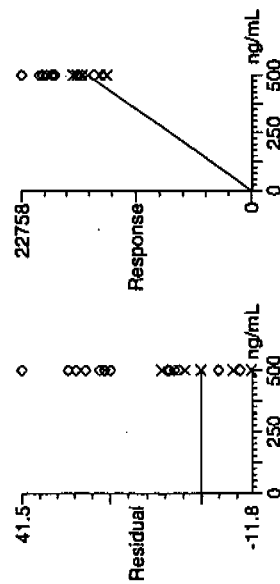
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.264403
RRF SD: 0.0134163, % Relative SD: 5.07418
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



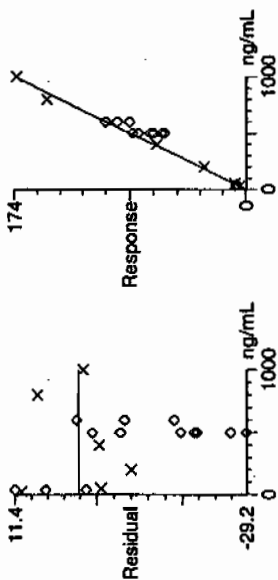
Compound name: 26-dinitrotoluene-d3
Response Factor: 32.163
RRF SD: 2.62233, % Relative SD: 8.15325
Response type: External Std, Area
Curve type: RF



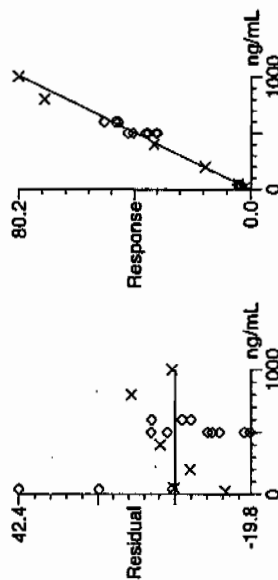
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.174015
RRF SD: 0.0127706, % Relative SD: 7.33882
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



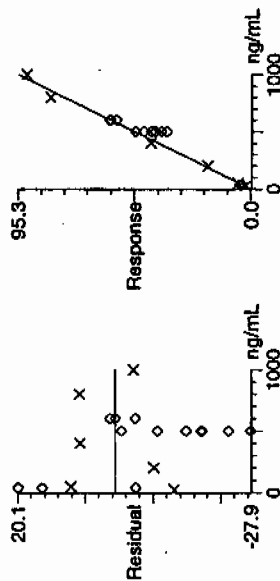
Compound name: 4-Nitrotoluene
Response Factor: 0.0795344
RRF SD: 0.00668823, % Relative SD: 8.40923
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



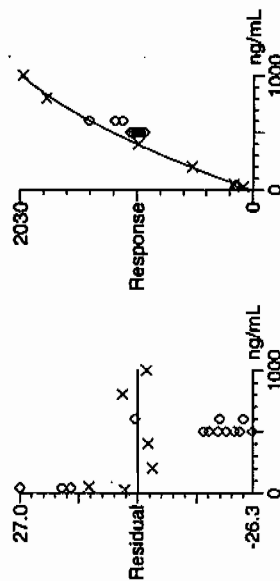
Quantity Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0953054
RRF SD: 0.00864891, % Relative SD: 9.07495
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Coefficient of Determination: 0.999074
Calibration curve: $-0.000844792 \cdot x^2 + 2.86454 \cdot x + 9.91503$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0105010a

Analysis Date: 05-JAN-10 23:22

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	454.479	91	
2-Amino-4,6-dinitrotoluene	600	612.263	102	
3,4-Dinitrotoluene	300	288.875	96	
4-Amino-2,6-dinitrotoluene	600	595.711	99	
HMX	600	580.03	97	
Nitrobenzene	600	580.246	97	
PETN	600	604.351	101	
RDX	600	693	116	
Tetryl	600	571.333	95	
m-Dinitrobenzene	600	576.202	96	
m-Nitrotoluene	600	606.413	101	
o-Nitrotoluene	600	602.05	100	
p-Nitrotoluene	600	638.796	106	
1,3,5-Trinitrobenzene	600	606.125	101	
1,3-Dinitrobenzene-d4	500	443.099	89	
2,4,6-Trinitrotoluene	600	578.863	96	
2,4-Dinitrotoluene	600	575.479	96	
2,6-Dinitrotoluene	600	608.595	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
ISEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: Untitled. Time: Wed Jan 06 12:43:40 2010

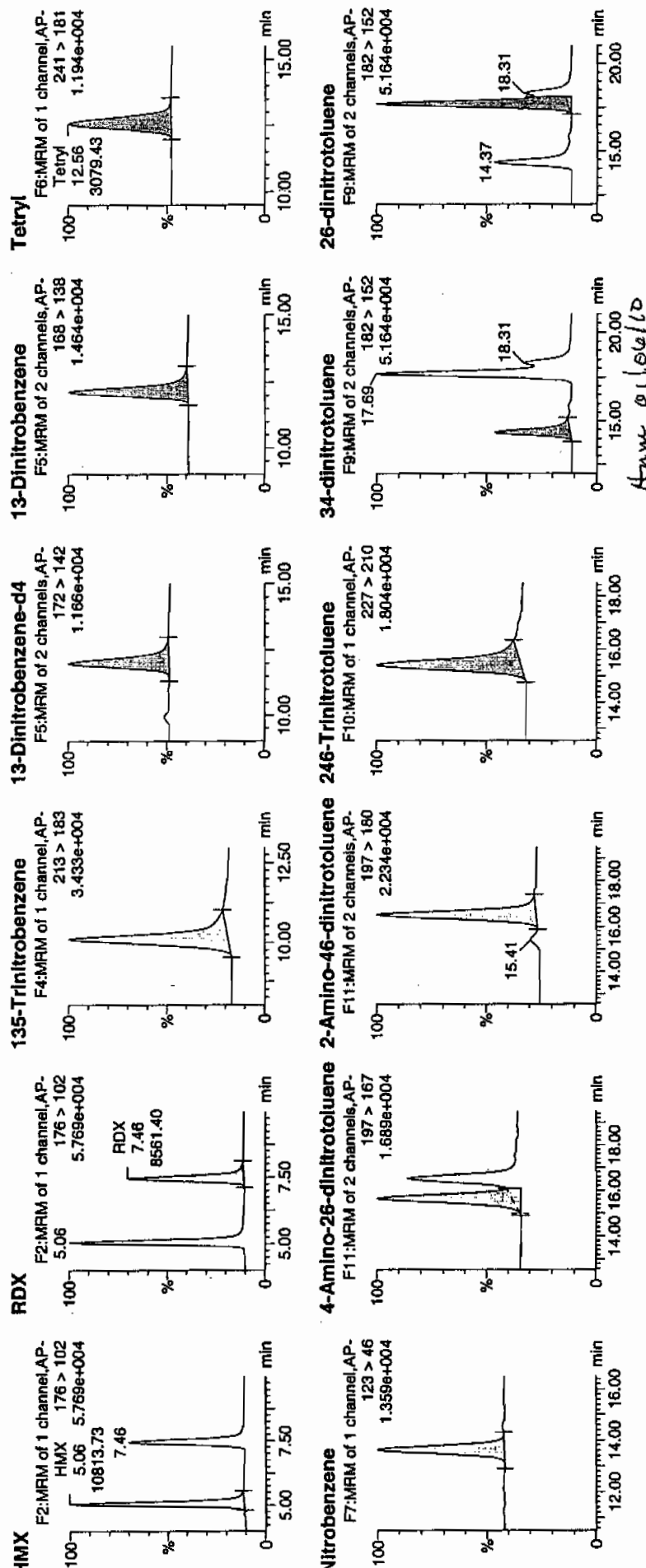
name: C:\MASSLYNX\NEW_EXP.PRO\DATA\EXP0105010a

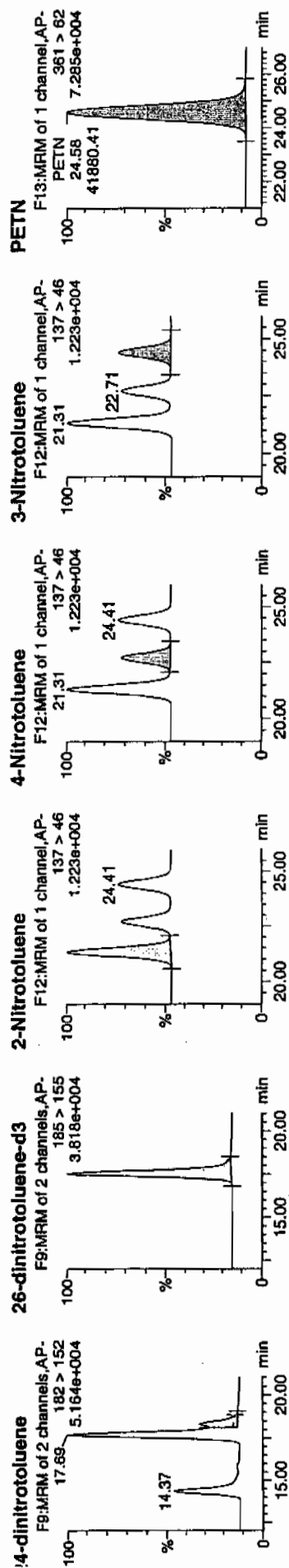
Date: 05-Jan-2010

Time: 23:22:38

D: WXX100105-07ICV

Vial: 1:1,B





Name	Trace	RT	Area	IS Area	Abundance	Response	Height	Mod Date	Mod Time	Int Value	FWHM	Skew	Kurtosis
WXX100105-07ICV	176 > 102	5.06	10813.725	2467.523	10813.726	2191.211	bb			580.0302	96.7	-3.3	1501.5
WXX100105-07ICV	176 > 102	7.46	8561.400	2467.523	8561.400	1734.817	bb			693.0001	115.5	15.5	995.5
WXX100105-07ICV	213 > 183	10.10	10985.283	2467.523	10985.283	2225.974	bb			606.1248	101.0	1.0	1039.0
WXX100105-07ICV	172 > 142	12.00	2467.523		2467.523	2467.523	bb			443.0993	88.6	-11.4	294.3
WXX100105-07ICV	168 > 138	12.13	3538.908	2467.523	3538.908	717.097	bb			576.2021	96.0	-4.0	253.9
WXX100105-07ICV	241 > 181	12.56	3079.425	2467.523	3079.425	623.991	bb			571.3328	95.2	-4.8	238.0
WXX100105-07ICV	123 > 46	13.61	2914.775	2467.523	2914.775	590.628	bb			580.2465	96.7	-3.3	245.3
WXX100105-07ICV	4-Amino-26-dinitrotoluene	187 > 167	4977.533	14617.416	4977.533	170.260	MM	06-Jan-10	12:29:05	595.7112	99.3	-0.7	247.4
WXX100105-07ICV	2-Amino-46-dinitrotoluene	197 > 180	7081.891	14617.416	7081.891	242.242	bb			612.2630	102.0	2.0	436.3
WXX100105-07ICV	246-Trinitrotoluene	227 > 210	5939.974	14617.416	5939.974	203.181	bb			578.8626	96.5	-3.5	321.9
WXX100105-07ICV	34-dinitrotoluene	182 > 152	7590.927	14617.416	7590.927	259.854	bb			288.8752	96.3	-3.7	225.1
WXX100105-07ICV	26-dinitrotoluene	182 > 152	19145.094	14617.416	19145.094	654.873	MM	06-Jan-10	12:33:49	608.5954	101.4	1.4	581.4
WXX100105-07ICV	24-dinitrotoluene	182 > 152	4448.328	14617.416	4448.328	152.158	MM	06-Jan-10	12:38:09	575.4787	95.9	-4.1	133.2
WXX100105-07ICV	26-dinitrotoluene-d3	185 > 155	14617.416		14617.416	14617.416	bb			454.4786	90.9	-9.1	1020.2
WXX100105-07ICV	2-Nitrotoluene	137 > 46	3062.805	14617.416	3062.805	104.766	bb			602.0497	100.3	0.3	338.8
WXX100105-07ICV	4-Nitrotoluene	137 > 46	1485.314	14617.416	1485.314	50.806	bb			638.7964	106.5	6.5	155.8
WXX100105-07ICV	3-Nitrotoluene	137 > 46	1889.611	14617.416	1889.611	57.794	bb			606.4134	101.1	1.1	168.1
WXX100105-07ICV	PETN	361 > 62	41880.410	14617.416	41880.410	1432.552	bb			604.3506	100.7	0.7	3946.6

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/05/10
 Time of Injection: 2322
 Standard Number: WXX100105-07ICV
 Data File: EXP0105010a

HMX	96.7
RDX	115.5
135-TNB	101.0
13-DNB	96.0
Tetryl	95.2
Nitrobenzene	96.7
4A-26-DNT	99.3
2A-46-DNT	102.0
246-TNT	96.5
34-DNT(surr)	96.3
26-DNT	101.4
24-DNT	95.9
2-NT	100.3
4-NT	106.5
3-NT	101.1
PETN	100.7

*WXX
1/6/10*

Total 1601.1

Average 100.1

Handwritten: 1601.1/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1074

Lab Code: GEL

Run Date: 05-JAN-10.08-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Paramname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0108003a	EXP0108004a	EXP0108005a	EXP0108006a	EXP0108007a	EXP0108008a			
Data File:									
1,3-Dinitrobenzene-d4	5.252	5.624	5.891	6.445	6.107	5.835	5.859	6.957	
2,4,6-Trinitrotoluene	.306	.336	.314	.327	.314	.346	0.324	4.735	
2,4-Dinitrotoluene	.243	.248	.217	.259	.232	.264	0.244	7.094	
2,6-Dinitrotoluene	1.169	1.205	1.09	1.09	1.129	1.108	1.132	4.098	
2,6-Dinitrotoluene-d3	33.895	34.7	35.72	36.984	28.747	32.59	33.773	8.544	
2-Amino-4,6-dinitrotoluene	.336	.305	.353	.41	.383	.422	0.368	12.165	
3,4-Dinitrotoluene	.929	.814	.846	.967	.885	.941	0.897	6.587	
4-Amino-2,6-dinitrotoluene	.311	.255	.243	.286	.285	.313	0.282	10.113	
HMX	2.997	3.192	3.42	3.446	3.375	3.383	3.302	5.279	
Nitrobenzene	1.095	1.158	.964	.965	.784	.952	0.986	13.189	
RDX	2.497	2.664	2.216	2.444	2.402	2.465	2.448	5.935	
Tetryl	1.384	1.231	1.057	1.039	.881	.916	1.085	17.673	
m-Dinitrobenzene	1.194	1.443	1.14	1.219	1.21	1.157	1.227	8.957	
m-Nitrotoluene	.118	.092	.104	.098	.091	.098	0.100	10.044	
o-Nitrotoluene	.163	.159	.148	.167	.155	.134	0.154	7.843	
p-Nitrotoluene	.088	.105	.072	.08	.08	.083	0.085	13.229	

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

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1074

Lab Code: GEL

Run Date: 05-JAN-10.08-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column:

Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

Calibration Level:	1	2	3	4	5	6	Slope	Intercept	COD	Q
Data File:	EXP0108003a	EXP0108004a	EXP0108005a	EXP0108006a	EXP0108007a	EXP0108008a				
Parname										
1,3,5-Trinitrobenzene	679.468	1322.77	4392.01	8767.35	17070.5	19999.8	3.457	0	.9988	
PETN	1824.72	3612.81	12304.1	21610.4	36335.8	39498.4	1.536	16.875	.9968	

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

COD is Coefficient of Determination

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

* Values outside of QC Limit

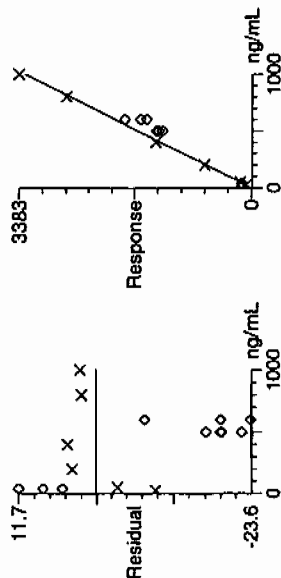
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

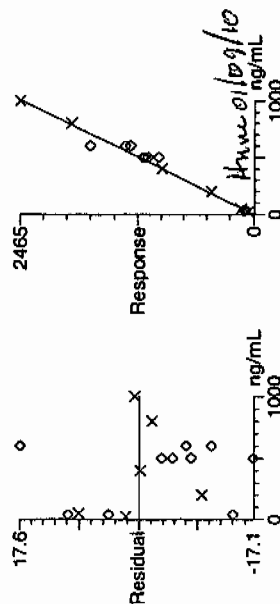
Method: C:\MASSLYNX\New_Exp.PRO\MethDB\010810expa.mdb, Time: Sat Jan 09 11:44:31 2010
Calibration: Untitled, Time: Sat Jan 09 12:01:37 2010

Page 253 of 595

Compound name: HMX
Response Factor: 3.30223
RRF SD: 0.174327, % Relative SD: 5.27907
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



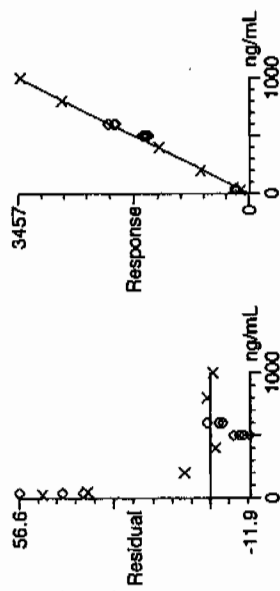
Compound name: RDX
Response Factor: 2.44794
RRF SD: 0.145292, % Relative SD: 5.93528
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



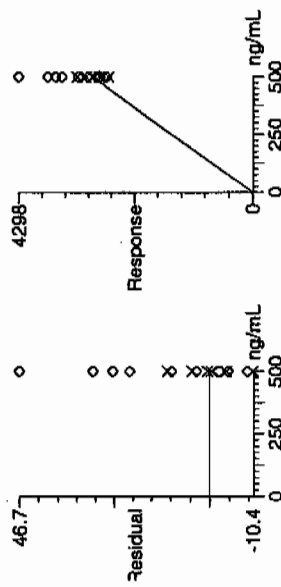
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 135-Trinitrobenzene
Coefficient of Determination: 0.998845
Calibration curve: $3.45704 \times x$
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None



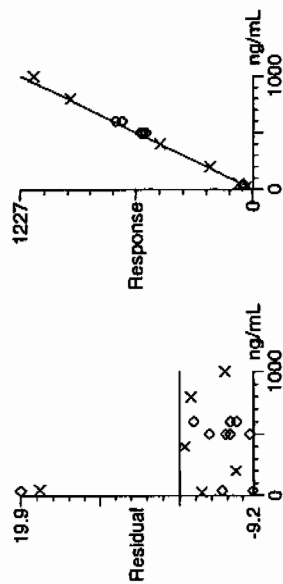
Compound name: 13-Dinitrobenzene-d4
Response Factor: 5.85906
RF SD: 0.407601, % Relative SD: 6.95677
Response type: External Std, Area
Curve type: RF



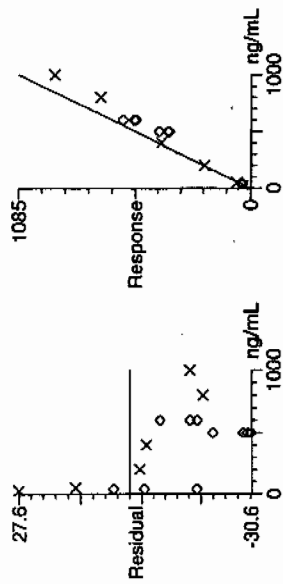
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\10810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.22703
RRF SD: 0.109909, % Relative SD: 8.95735
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



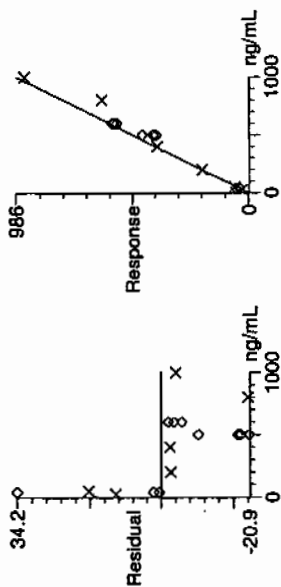
Compound name: Tetra
Response Factor: 1.08466
RRF SD: 0.191688, % Relative SD: 17.6727
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



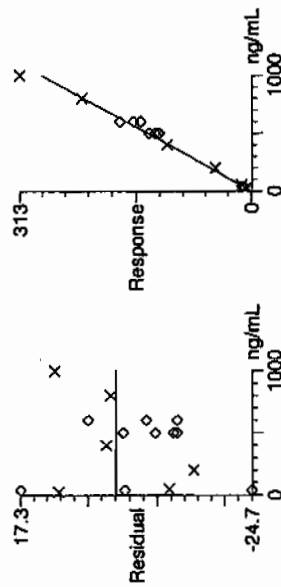
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: Nitrobenzene
Response Factor: 0.986407
RRF SD: 0.1301, % Relative SD: 13.1892
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



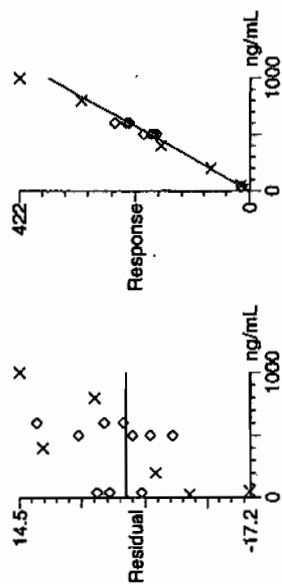
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.28197
RRF SD: 0.0285154, % Relative SD: 10.1129
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



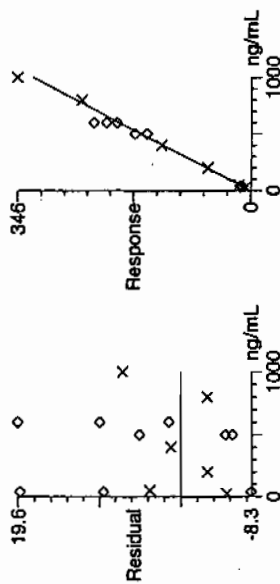
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.368254
RRF SD: 0.0447967, % Relative SD: 12.1646
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



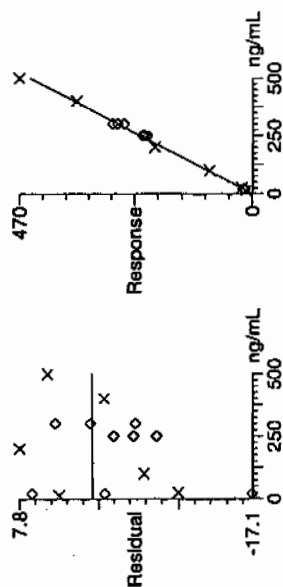
Compound name: 246-Trinitrotoluene
Response Factor: 0.323689
RRF SD: 0.0153263, % Relative SD: 4.73488
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



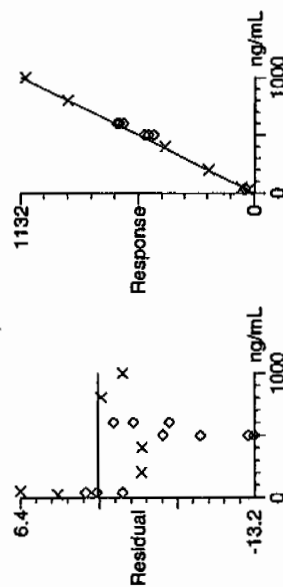
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 34-dinitrotoluene
Response Factor: 0.897168
RRF SD: 0.0590949, % Relative SD: 6.58682
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



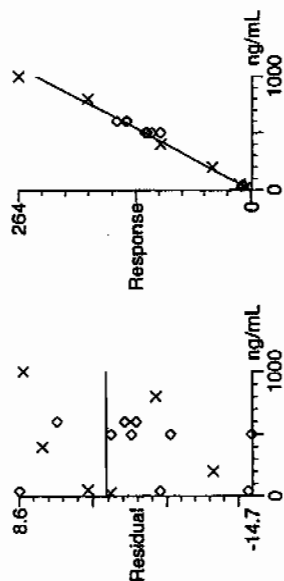
Compound name: 26-dinitrotoluene
Response Factor: 1.13194
RRF SD: 0.0463851, % Relative SD: 4.09785
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



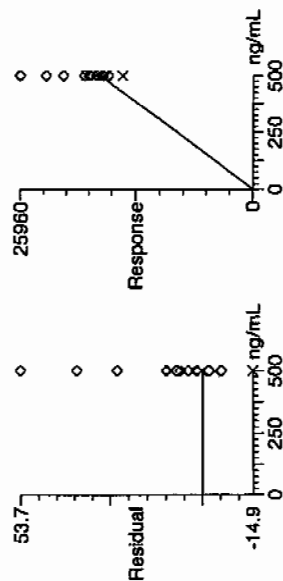
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.243856
RRF SD: 0.0172996, % Relative SD: 7.09421
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



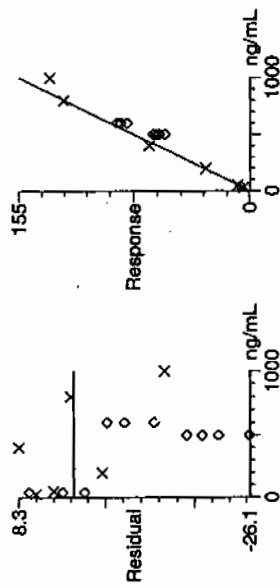
Compound name: 26-dinitrotoluene-d3
Response Factor: 33.7726
RRF SD: 2.88541, % Relative SD: 8.54363
Response type: External Std, Area
Curve type: RF



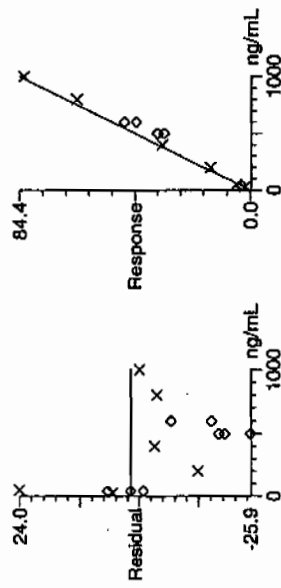
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 2-Nitrotoluene
 Response Factor: 0.154586
 RRF SD: 0.0121245, % Relative SD: 7.84323
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



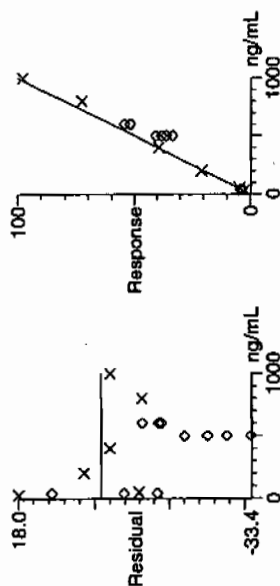
Compound name: 4-Nitrotoluene
 Response Factor: 0.0844098
 RRF SD: 0.0111663, % Relative SD: 13.2286
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



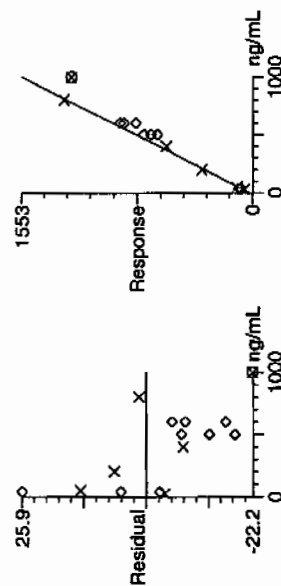
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.100163
RRF SD: 0.01006, % Relative SD: 10.0436
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Correlation coefficient: $r = 0.998412$, $r^2 = 0.996827$
Calibration curve: $1.53649 * x + 16.8747$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0108010a

Analysis Date: 08-JAN-10 21:40

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	600	589.772	98	
PETN	600	568.486	95	
RDX	600	557.415	93	
Tetryl	600	496.018	83	
m-Dinitrobenzene	600	561.696	94	
m-Nitrotoluene	600	518.123	86	
o-Nitrotoluene	600	554.614	92	
p-Nitrotoluene	600	547.059	91	
1,3,5-Trinitrobenzene	600	584.535	97	
1,3-Dinitrobenzene-d4	500	488.896	98	
2,4,6-Trinitrotoluene	600	658.712	110	
2,4-Dinitrotoluene	600	582.225	97	
2,6-Dinitrotoluene	600	581.833	97	
2,6-Dinitrotoluene-d3	500	490.316	98	
2-Amino-4,6-dinitrotoluene	600	617.209	103	
3,4-Dinitrotoluene	300	311.903	104	
4-Amino-2,6-dinitrotoluene	600	567.423	95	
HMX	600	485.93	81	

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\010810expA.qtd, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108010a

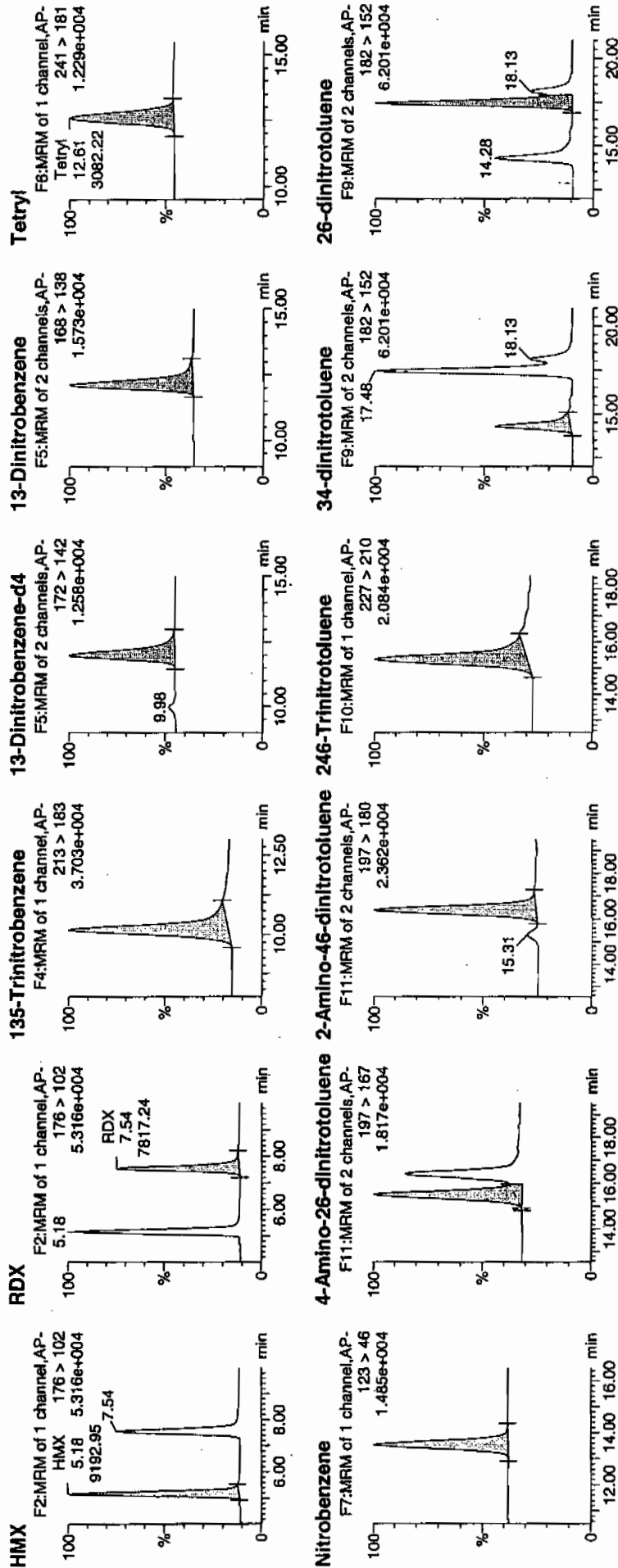
Date: 08-Jan-2010

Time: 21:40:39

ID: WXX100108-07ICV

Vial: 1:1,B

1/10/10

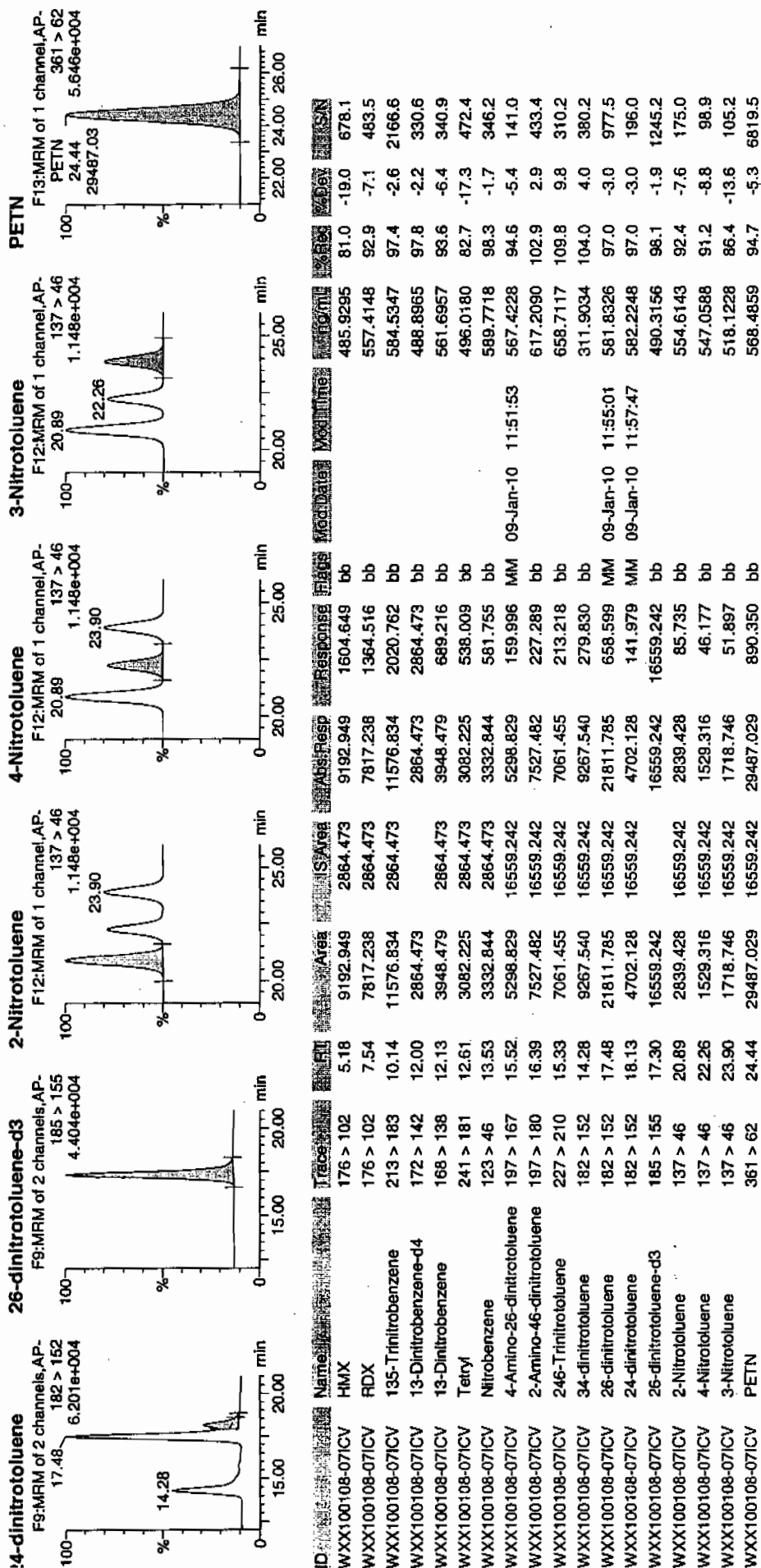


1/10/10

Printed: Sat Jan 09 12:02:23 2010, Page 20 of 61

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

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/08/10
 Time of Injection: 2140
 Standard Number: WXX100108-07ICV
 Data File: EXP0108010a

HMX	81.0
RDX	92.9
135-TNB	97.4
13-DNB	93.6
Tetryl	82.7
Nitrobenzene	98.3
4A-26-DNT	94.6
2A-46-DNT	102.9
246-TNT	109.8
34-DNT(surr)	104.0
26-DNT	97.0
24-DNT	97.0
2-NT	92.4
4-NT	91.2
3-NT	86.4
PETN	94.7

mtf
1/9/10

Total 1515.9

Average 94.7

Done 01/09/10

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: 10-1074

Lab Code: GEL

Run Date: 05-JAN-10.08-JAN-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:	EXS01050003.wif	EXS01050004.wif	EXS01050005.wif	EXS01050006.wif	EXS01050007.wif	EXS01050008.wif	EXS01050009.wif					
Paraname:												
2,4-Diamino-6-nitrotoluene	119000	240000	570000	1160000	1580000	2320000	4380000	14300	2190	.045	.9995	
2,6-Diamino-4-nitrotoluene	167000	321000	888000	1630000	2510000	3420000	6300000	-30400	3590	-.207	.9997	
3,4-Dinitrotoluene	288000	581000	1500000	2870000	4340000	5830000	10300000	-99000	13700	-3.22	.9988	
3,5-Dinitroaniline	438000	907000	2250000	4080000	6180000	7980000	13400000	-15600	9130	-1.2	.9999	
TATB	66800	138000	345000	682000	998000	1360000	2570000	-4460	1410	-.059	.9999	
tris(o-cresyl) phosphate	1220000	2460000	6050000	11400000	16000000	20200000	31700000	80200	24600	-4.39	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

010510ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-4.46e+003			
a1	1.41e+003			
a2	-0.0594			
Correlation coefficient 0.9999				
Use Area				

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.56e+004			
a1	9.13e+003			
a2	-1.2			
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	-9.9e+004			
a1	1.37e+004			
a2	-3.22			
Correlation coefficient 0.9988				
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	-3.04e+004			
a1	3.59e+003			
a2	-0.207			
Correlation coefficient 0.9997				
Use Area				

8/21/10

8/21/10

010510ICAL

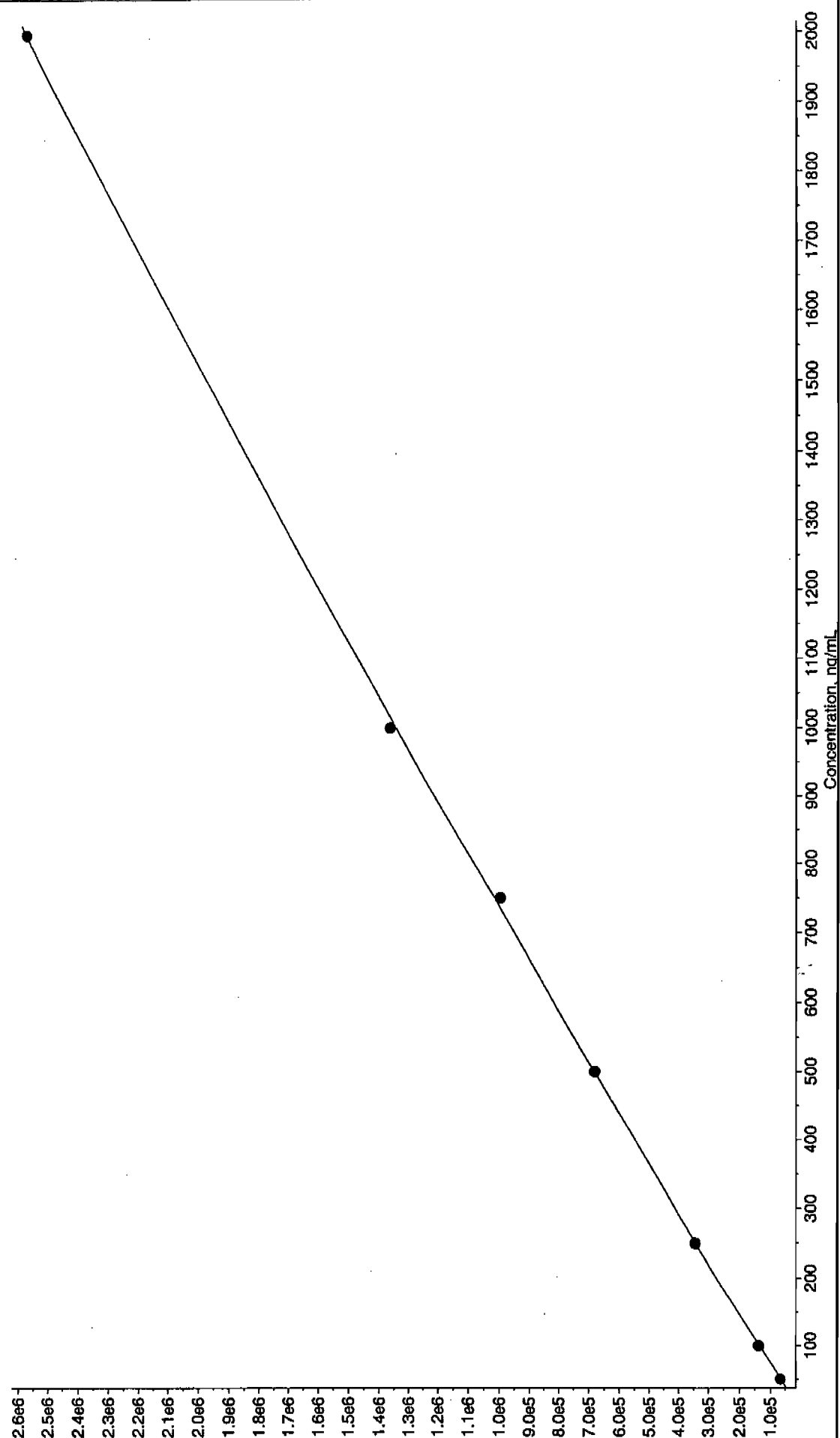
Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	1.43e+004			
a1	2.19e+003			
a2	0.0451			
Correlation coefficient 0.9995				
Use Area				

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

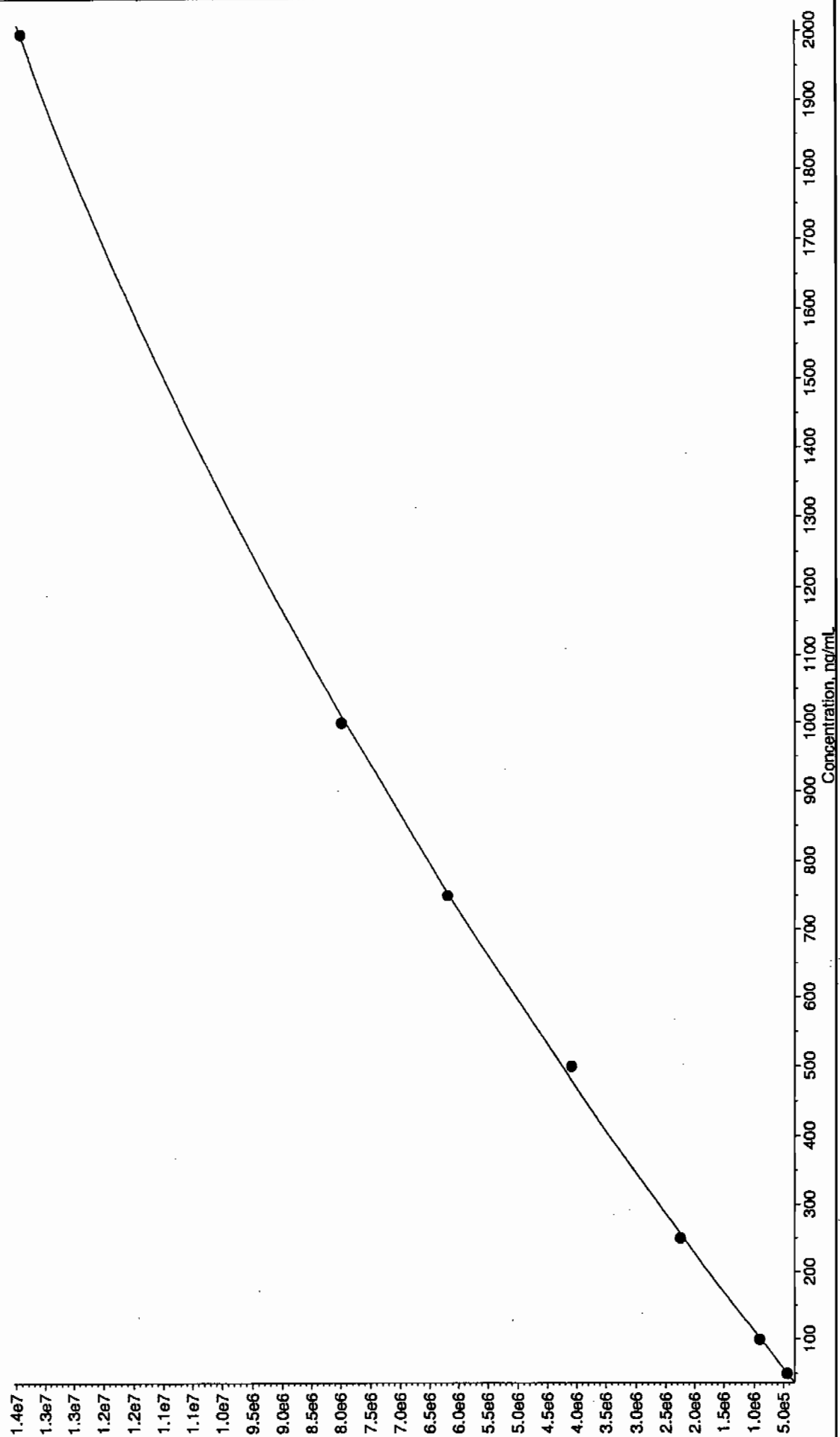
Fit	Quadratic	Weighting	None	Iterate No
a0	8.02e+004			
a1	2.46e+004			
a2	-4.39			
Correlation coefficient 1.0000				
Use Area				

010510.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = -0.0594 x^2 + 1.41e+003 x + -4.46e+003$ ($r = 0.9999$)



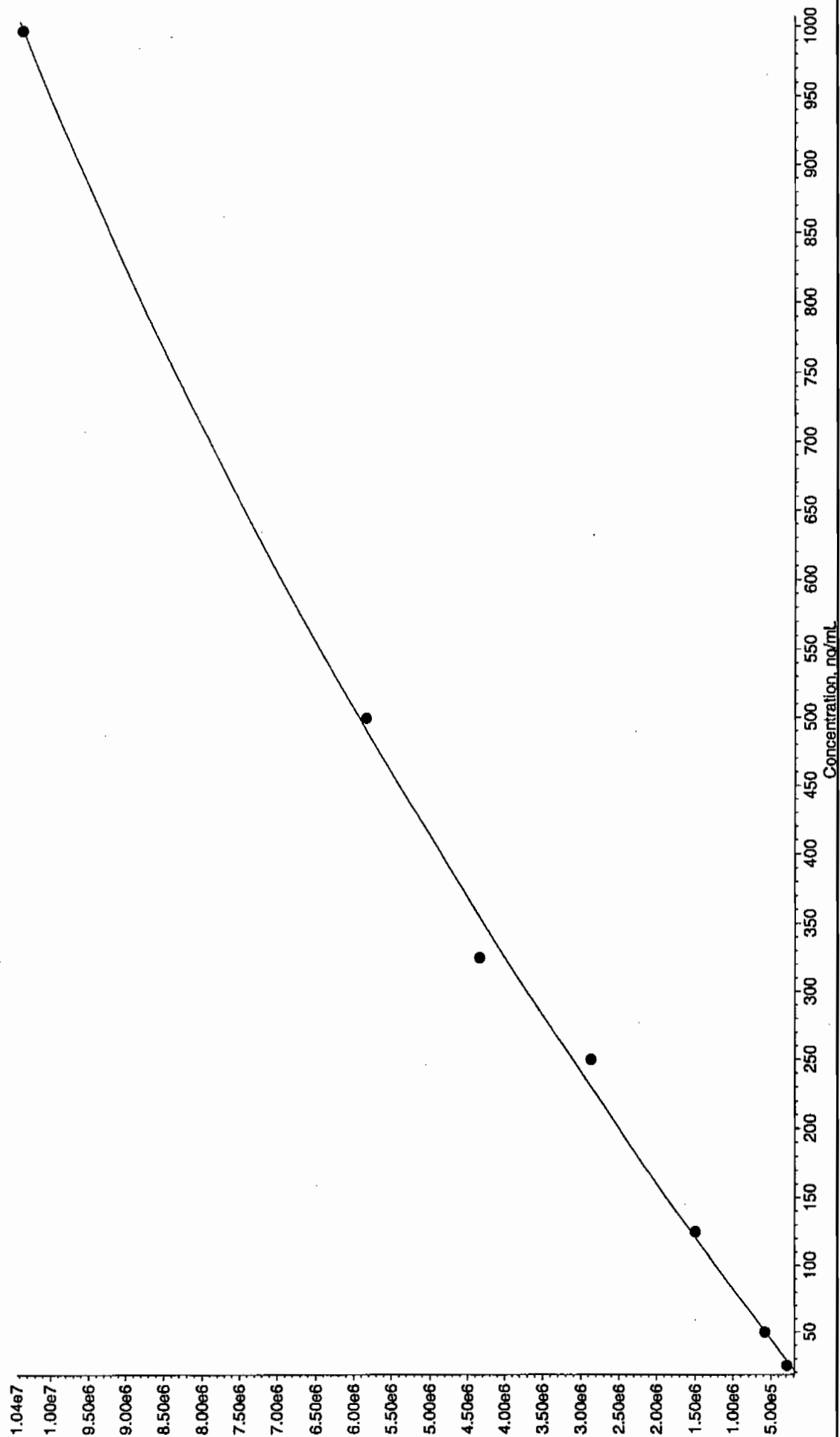
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

010510.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.2 \times 10^{-4} x^2 + 9.13 \times 10^{-3} x + -1.56 \times 10^4$ ($r = 0.9999$)

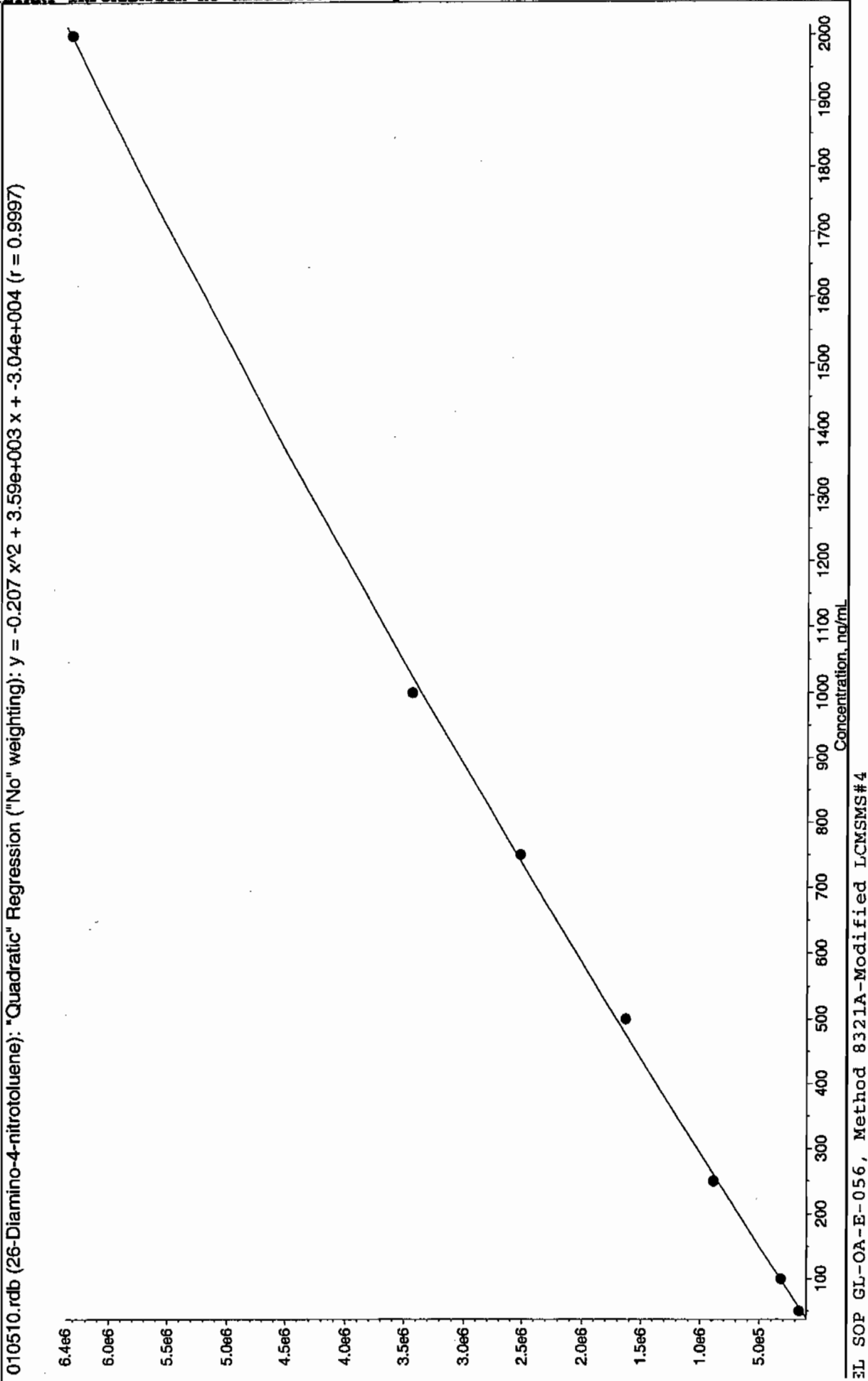


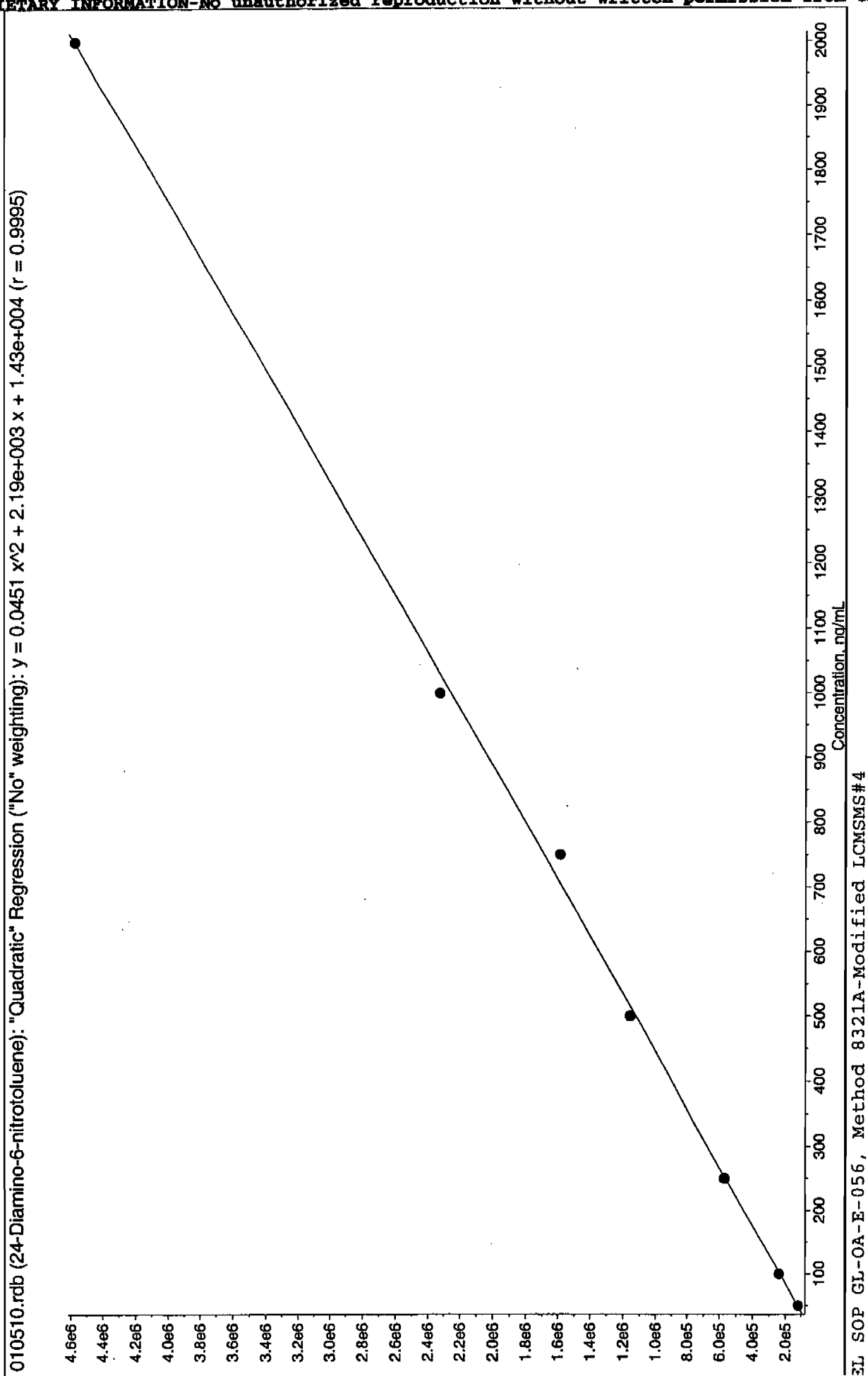
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

010510.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -3.22 \times 10^{-4} x^2 + 1.37 \times 10^{-4} x + -9.9 \times 10^{-4}$ ($r = 0.9988$)

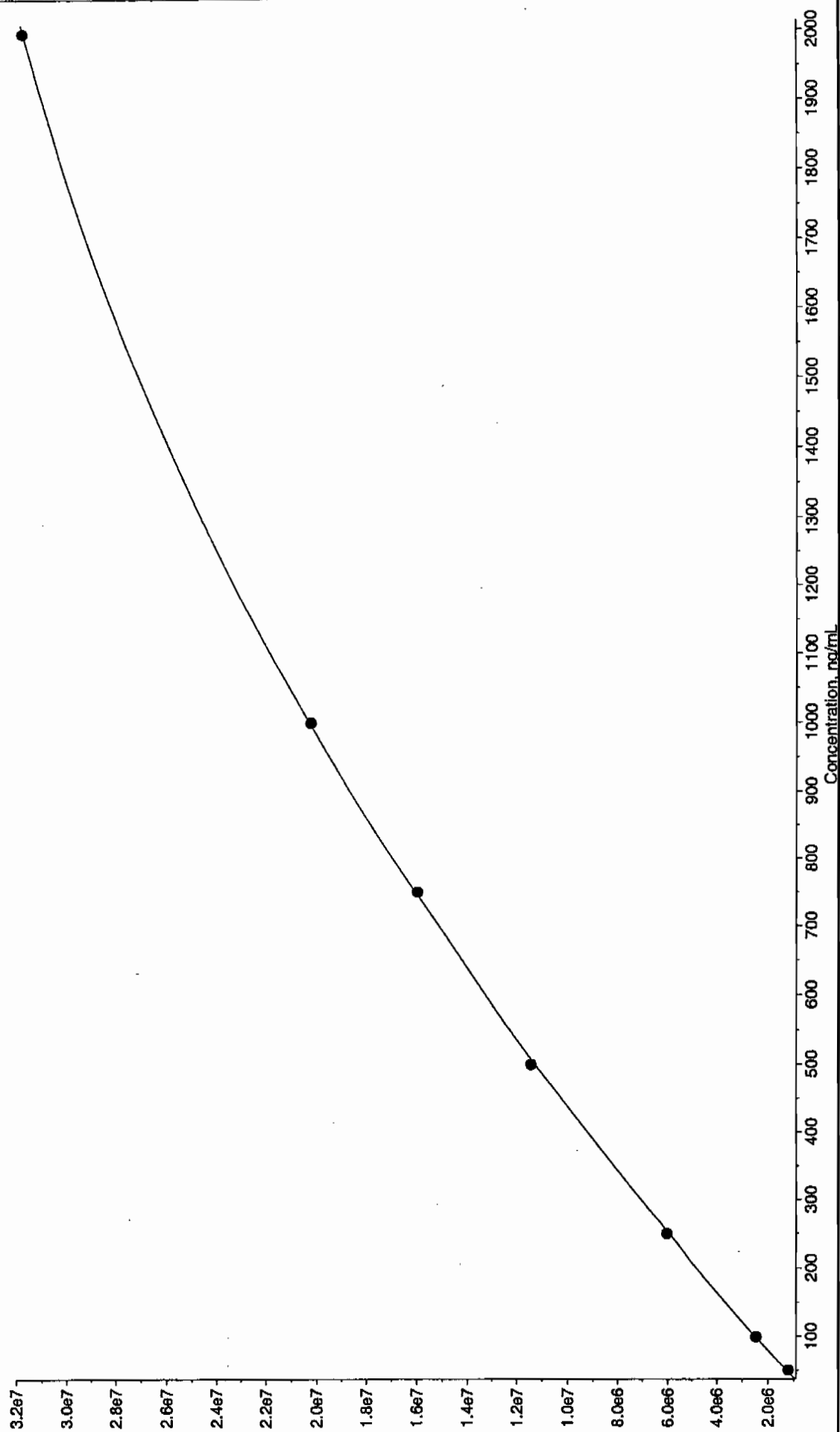


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





010510.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -4.39 x^2 + 2.46e+004 x + 8.02e+004$ ($r = 1.0000$)



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS01050011.wiff

Analysis Date: 05-JAN-10 17:07

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	512	102	
2,6-Diamino-4-nitrotoluene	500	553	111	
3,4-Dinitrotoluene	250	225	90	
3,5-Dinitroaniline	500	509	102	
TATB	500	514	103	
tris(o-cresyl) phosphate	500	481	96	

Recovery Limits:

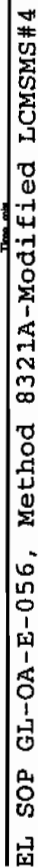
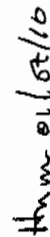
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

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



1/19/10
J. J. J.

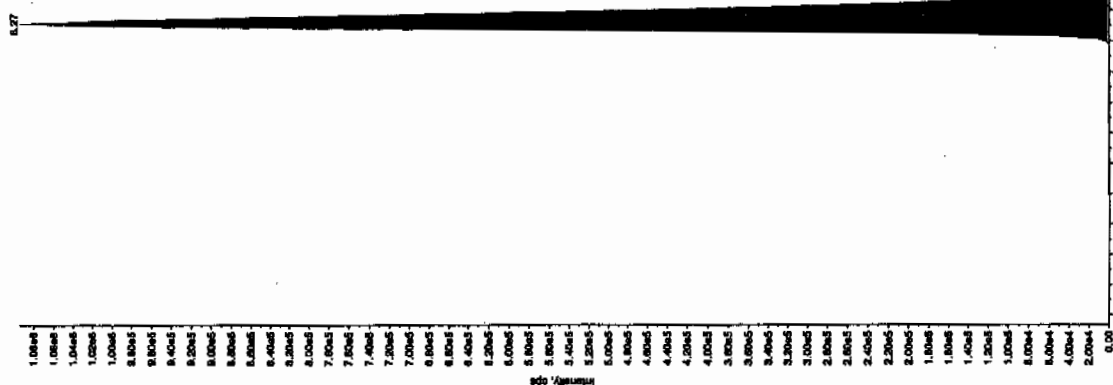
Sample Name: "WXX100105-38CV" Sample ID: "JTLER" File: "EXS01050011.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

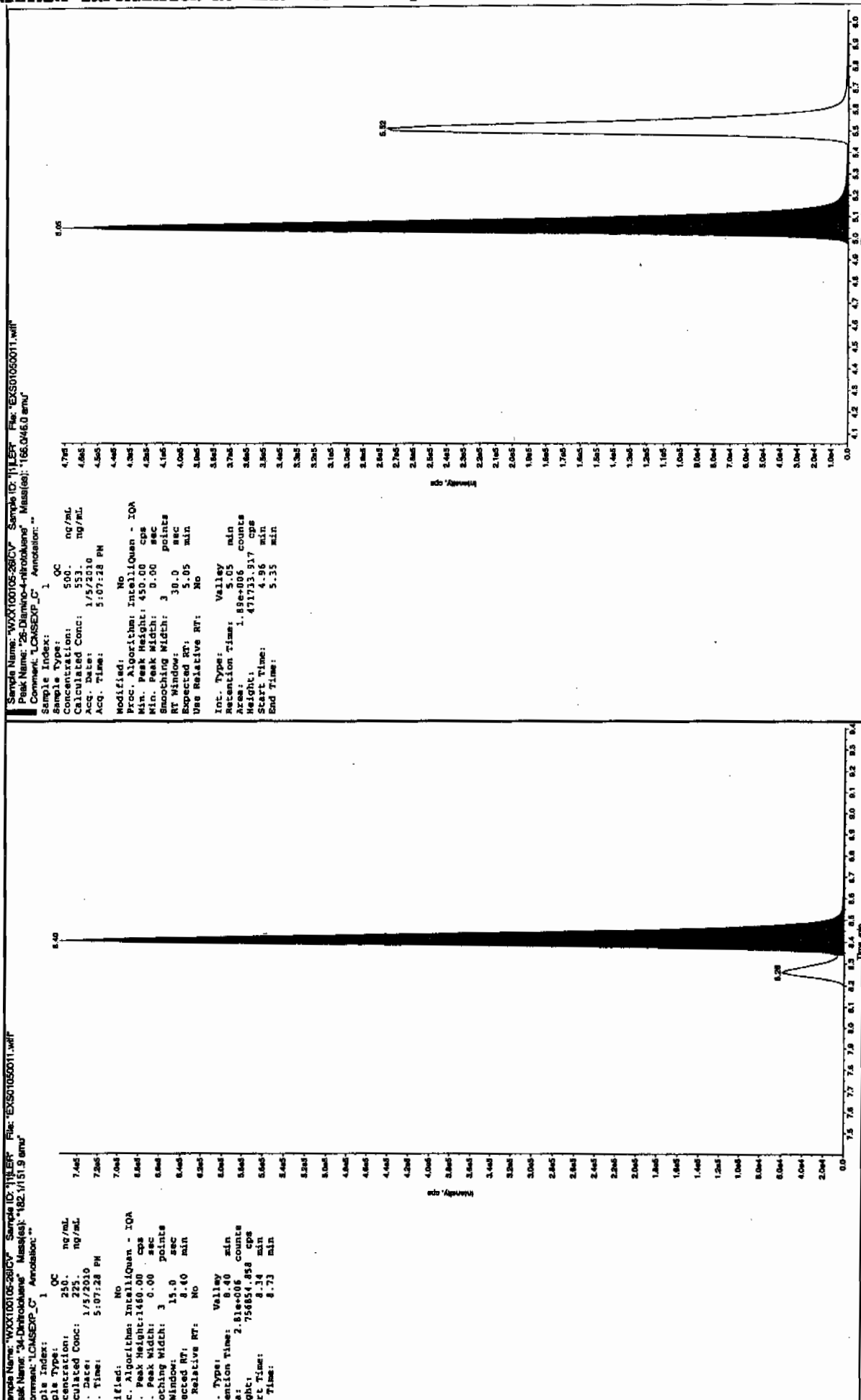
Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 514. ng/mL
Acq. Date: 1/5/2010
Acq. Time: 5:07:28 PM
Modified: No
Acq. Algorithm: InCalliQuan - IQA
n. Peak Height: 2500.00 cps
n. Peak Width: 0.00 sec
coating Width: 30.0 points
Window: 30.0 sec
ected RT: 7.03 min
e Relative RT: No
t. Type: Valley
tentation Time: 7.03 min
ea: 7.03e+005 counts
ight: 163784.073 cps
rt Time: 6.91 min
Time: 7.56 min



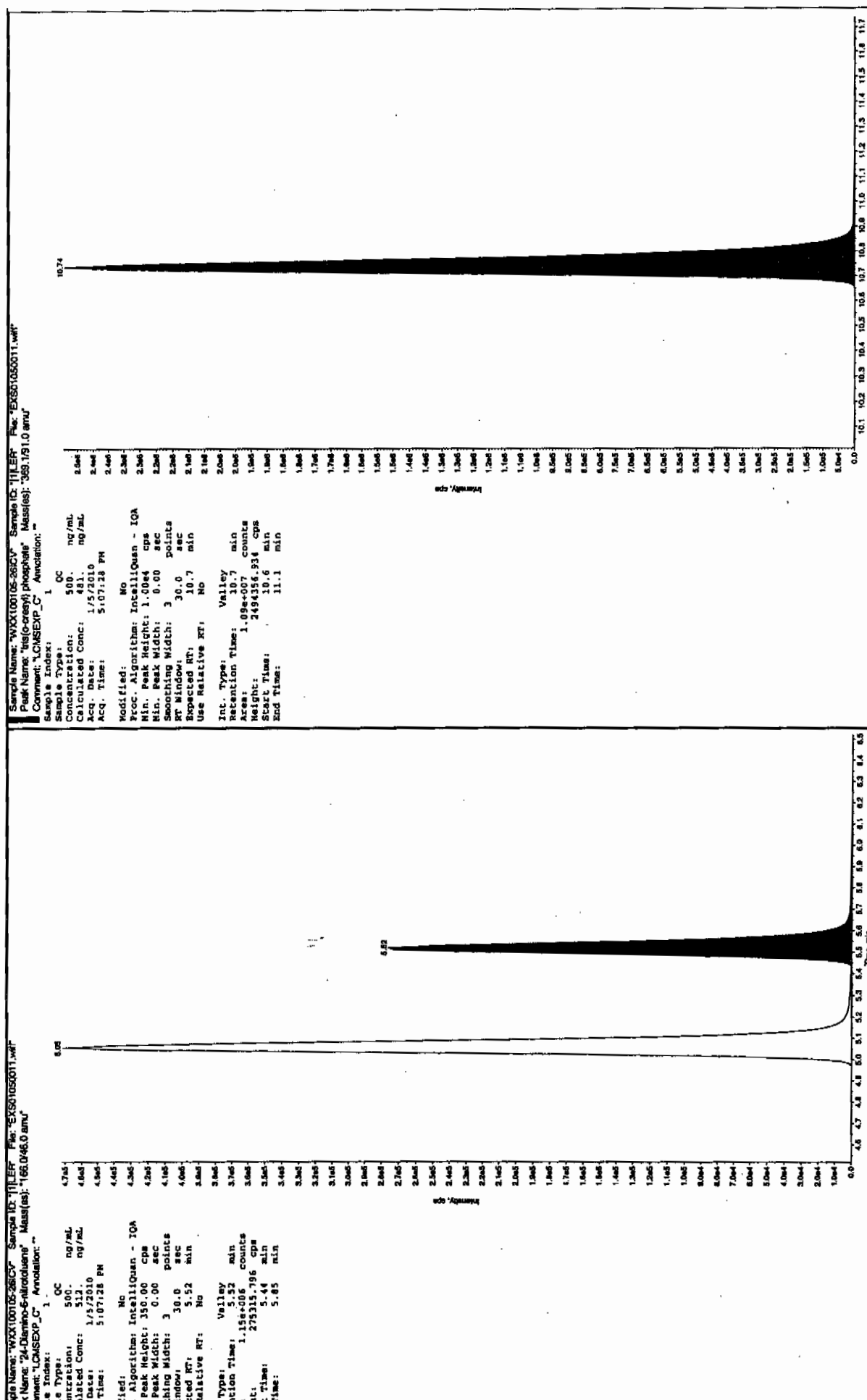
Sample Name: "WXX100105-26CV" Sample ID: "JTLER" File: "EXS01050011.wif"
Peak Name: "3S-Dichlorofluor" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 509. ng/mL
Acq. Date: 1/5/2010
Acq. Time: 5:07:28 PM
Modified: Yes
Acq. Algorithm: InCalliQuan - IQA
n. Peak Height: 15.0 sec
n. Peak Width: 8.27 min
coating Width: 30.0 points
Window: 30.0 sec
ected RT: 8.27 min
e Relative RT: No
t. Type: Manual
tentation Time: 8.27 min
ea: 4.32e+006 counts
ight: 1091492.744 cps
rt Time: 8.20 min
Time: 8.37 min





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



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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105012a

Analysis Date: 06-JAN-10 00:21

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	39.099	98	
1,3-Dinitrobenzene-d4	500	487.493	97	
2,4,6-Trinitrotoluene	40	39.892	100	
2,4-Dinitrotoluene	40	29.031	73	
2,6-Dinitrotoluene	40	43.458	109	
2,6-Dinitrotoluene-d3	500	479.797	96	
2-Amino-4,6-dinitrotoluene	40	41.371	103	
3,4-Dinitrotoluene	20	21.554	108	
4-Amino-2,6-dinitrotoluene	40	38.151	95	
HMX	40	46.12	115	
Nitrobenzene	40	45.004	113	
PETN	40	50.794	127	
RDX	40	41.764	104	
Tetryl	40	36.162	90	
m-Dinitrobenzene	40	43.086	108	
m-Nitrotoluene	40	48.034	120	
o-Nitrotoluene	40	39.452	99	
p-Nitrotoluene	40	48.414	121	

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 Jan 06 12:44:40 2010, Page 23 of 71

Quantify Sample Report
 3EL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

File Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105012a

Date: 06-Jan-2010

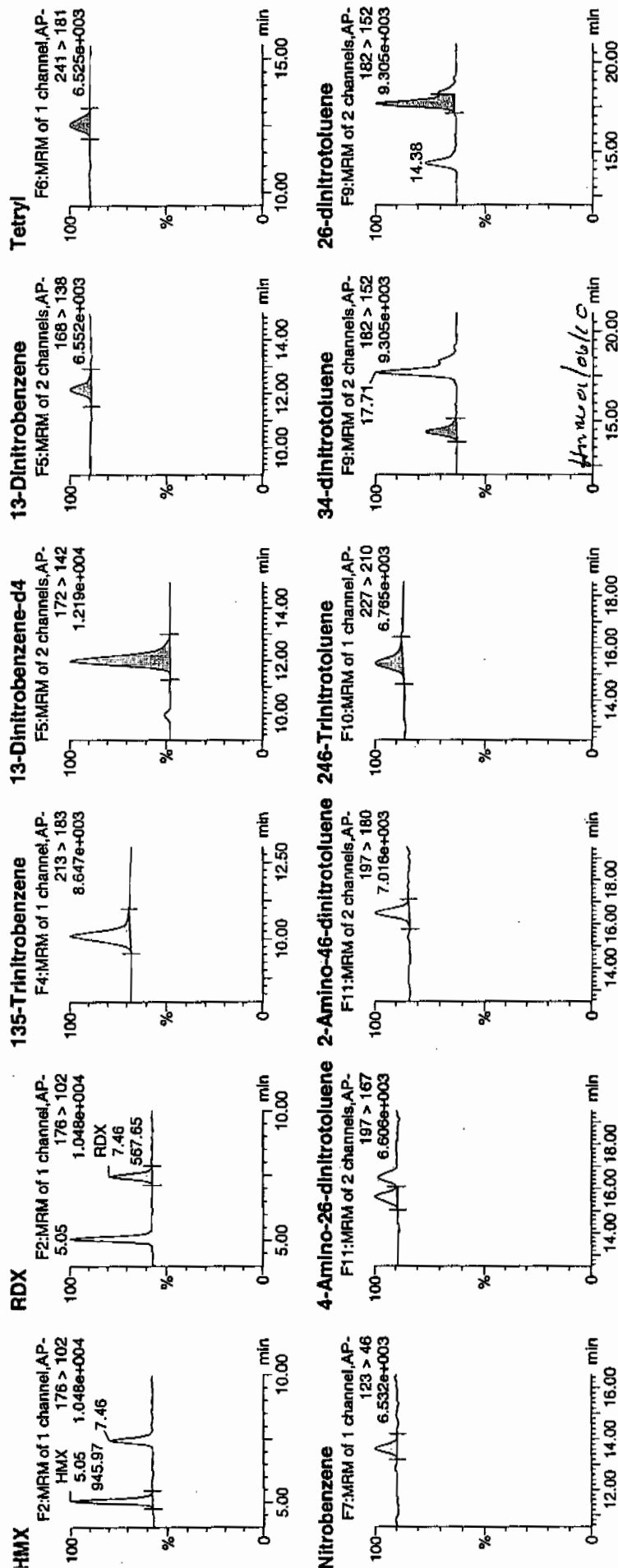
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D: WXX100105-08CRI

Val: 1:1,C

Page 281 of 595

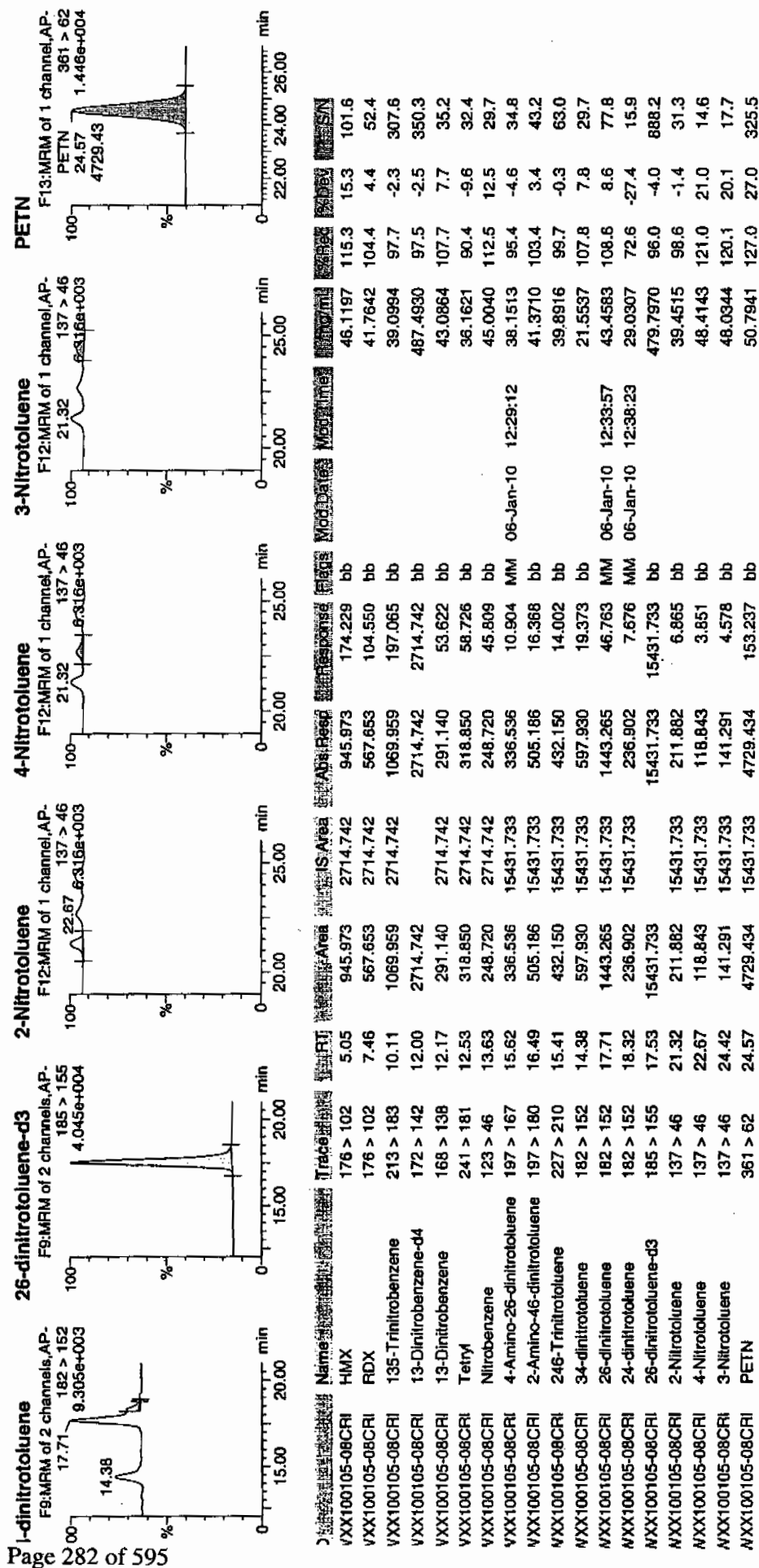
1/6/10



Printed: Wed Jan 06 12:44:40 2010, Page 24 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/06/10
 Time of Injection 0021
 Standard Number WXX100105-08CRI
 Data File EXP0105012a

HMX	115.3
RDX	104.4
135-TNB	97.7
13-DNB	107.7
Tetryl	90.4
Nitrobenzene	112.5
4A-26-DNT	95.4
2A-46-DNT	103.4
246-TNT	99.7
34-DNT(surr)	107.8
26-DNT	108.6
24-DNT	72.6
2-NT	98.6
4-NT	121.0
3-NT	120.1
PETN	127.0

*WXX
1/6/10*

Total 1682.2

Average 105.1

done 01/06/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105020a

Analysis Date: 06-JAN-10 04:17

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	455.032	76	*
RDX	600	605.106	101	
Tetryl	600	570.762	95	
m-Dinitrobenzene	600	580.387	97	
m-Nitrotoluene	600	599.836	100	
o-Nitrotoluene	600	501.553	84	
p-Nitrotoluene	600	575.012	96	
1,3,5-Trinitrobenzene	600	591.487	99	
1,3-Dinitrobenzene-d4	500	617.566	124	*
2,4,6-Trinitrotoluene	600	666.044	111	
2,4-Dinitrotoluene	600	555.954	93	
2,6-Dinitrotoluene	600	593.114	99	
2,6-Dinitrotoluene-d3	500	603.055	121	*
2-Amino-4,6-dinitrotoluene	600	550.985	92	
3,4-Dinitrotoluene	300	315.081	105	
4-Amino-2,6-dinitrotoluene	600	568.973	95	
HMX	600	458.181	76	*
Nitrobenzene	600	547.645	91	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Wed Jan 06 12:44:40 2010, Page 39 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

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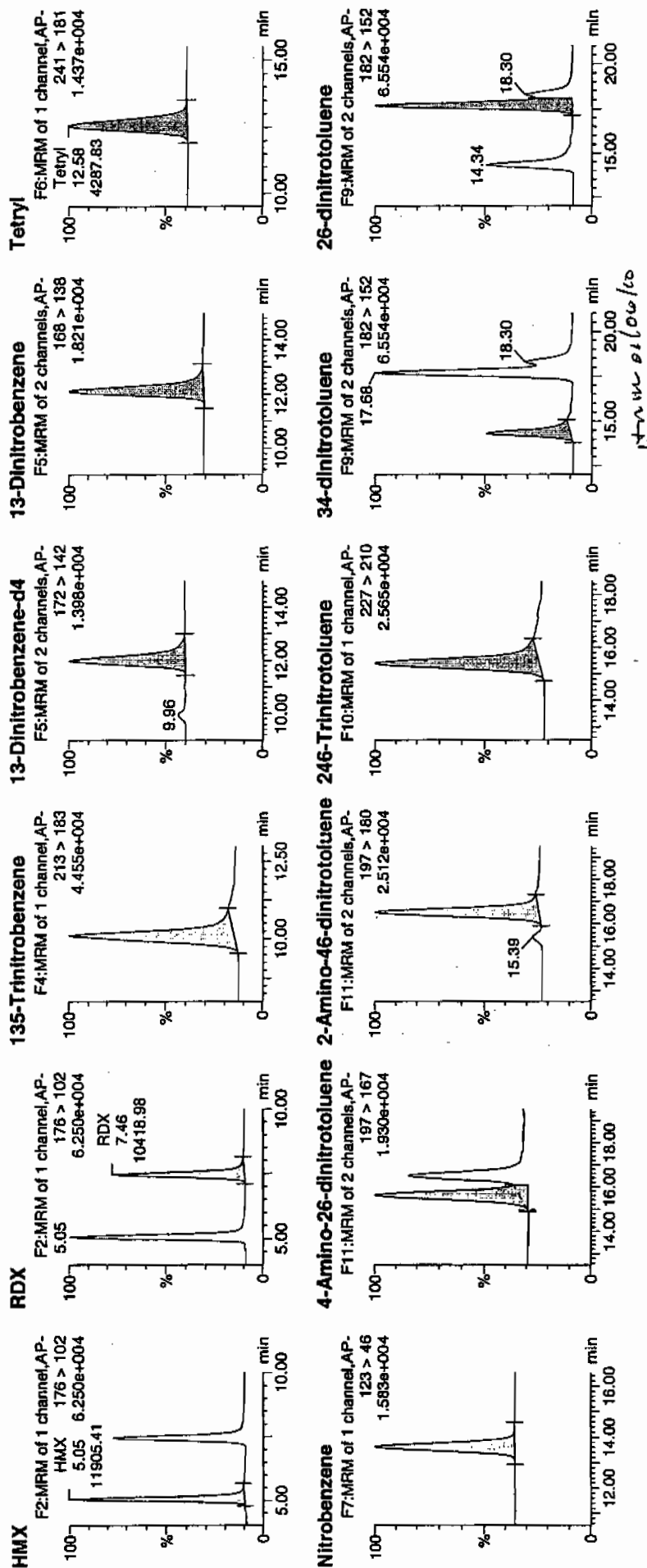
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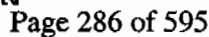
Time: 04:17:27

ID: WXX100105-07CCV

Vial: 1:1,B

WXX
1/6/10





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

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/06/10
 Time of Injection: 0417
 Standard Number: WXX100105-07CCV
 Data File: EXP0105020a

HMX	76.4
RDX	100.9
135-TNB	98.6
13-DNB	96.7
Tetryl	95.1
Nitrobenzene	91.3
4A-26-DNT	94.8
2A-46-DNT	91.8
246-TNT	111.0
34-DNT(surr)	105.0
26-DNT	98.9
24-DNT	92.7
2-NT	83.6
4-NT	95.8
3-NT	100.0
PETN	75.8

Total 1508.4

Average 94.3

Hum 01/06/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105022a

Analysis Date: 06-JAN-10 05:16

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	40	45.116	113	
PETN	40	46.941	117	
RDX	40	41.829	105	
Tetryl	40	25.129	63	*
m-Dinitrobenzene	40	32.713	82	
m-Nitrotoluene	40	46.051	115	
o-Nitrotoluene	40	42.367	106	
p-Nitrotoluene	40	40.289	101	
1,3,5-Trinitrobenzene	40	40.332	101	
1,3-Dinitrobenzene-d4	500	499.536	100	
2,4,6-Trinitrotoluene	40	39.824	100	
2,4-Dinitrotoluene	40	38.799	97	
2,6-Dinitrotoluene	40	43.658	109	
2,6-Dinitrotoluene-d3	500	530.682	106	
2-Amino-4,6-dinitrotoluene	40	44.282	111	
3,4-Dinitrotoluene	20	22.508	113	
4-Amino-2,6-dinitrotoluene	40	47.924	120	
HMX	40	43.053	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: Untitled, Time: Wed Jan 06 12:43:40 2010

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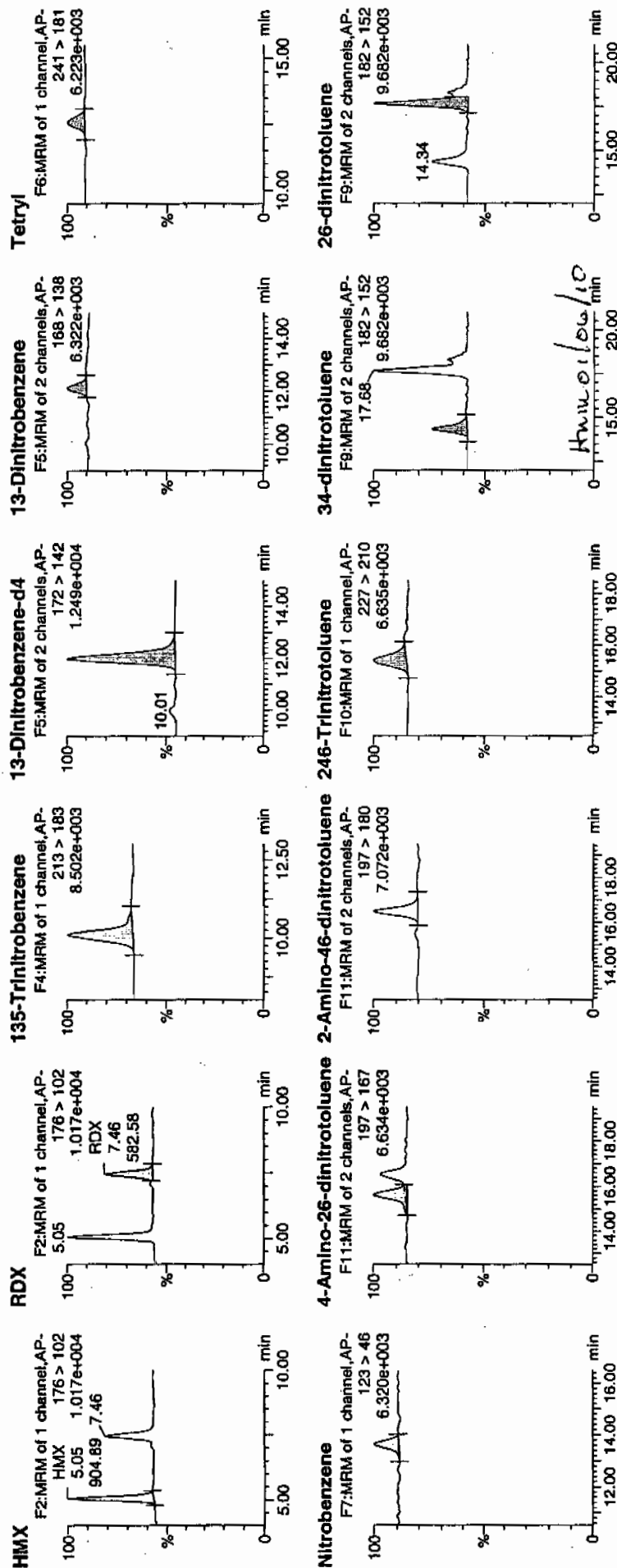
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Time: 05:16:24

ID: WXX100105-08CRI

Vial: 1:1,C

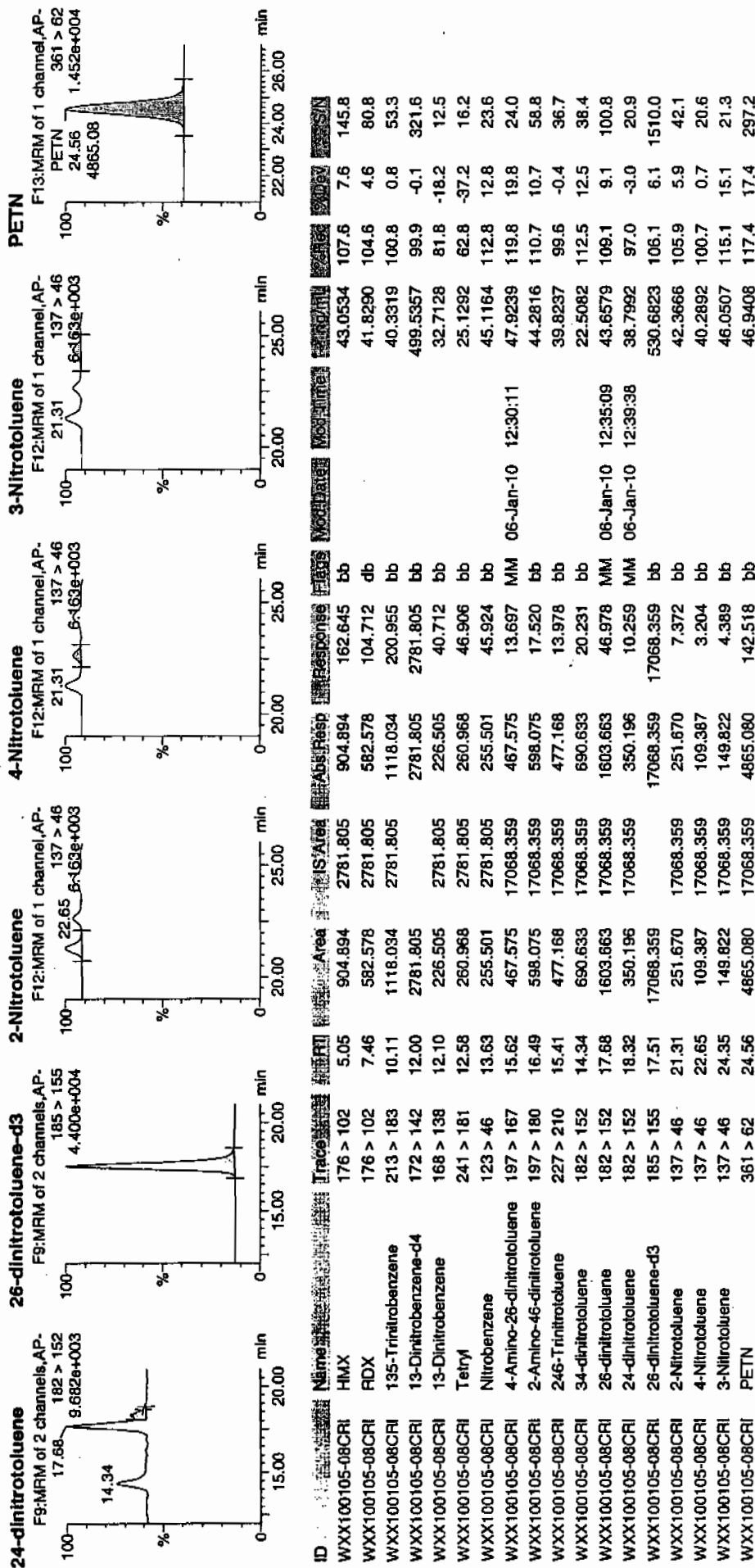
WXX
1/6/10



Printed: Wed Jan 06 12:44:40 2010, Page 44 of 71

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/06/10
 Time of Injection 0516
 Standard Number WXX100105-08CRI
 Data File EXP0105022a

HMX	107.6
RDX	104.6
135-TNB	100.8
13-DNB	91.8
Tetryl	92.8
Nitrobenzene	112.8
4A-26-DNT	119.8
2A-46-DNT	110.7
246-TNT	99.6
34-DNT(surr)	112.5
26-DNT	109.1
24-DNT	97.0
2-NT	105.9
4-NT	100.7
3-NT	115.1
PETN	117.4

Total 1698.2

Average 106.1

Handwritten: 106.1

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105033a

Analysis Date: 06-JAN-10 10:41

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	589.099	98	
1,3-Dinitrobenzene-d4	500	525.663	105	
2,4,6-Trinitrotoluene	600	609.992	102	
2,4-Dinitrotoluene	600	642.913	107	
2,6-Dinitrotoluene	600	617.053	103	
2,6-Dinitrotoluene-d3	500	536.35	107	
2-Amino-4,6-dinitrotoluene	600	633.252	106	
3,4-Dinitrotoluene	300	298.758	100	
4-Amino-2,6-dinitrotoluene	600	612.158	102	
HMX	600	690.236	115	
Nitrobenzene	600	577.991	96	
PETN	600	487.763	81	
RDX	600	725.455	121	*
Tetryl	600	522.023	87	
m-Dinitrobenzene	600	558.746	93	
m-Nitrotoluene	600	575.257	96	
o-Nitrotoluene	600	552.159	92	
p-Nitrotoluene	600	589.044	98	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

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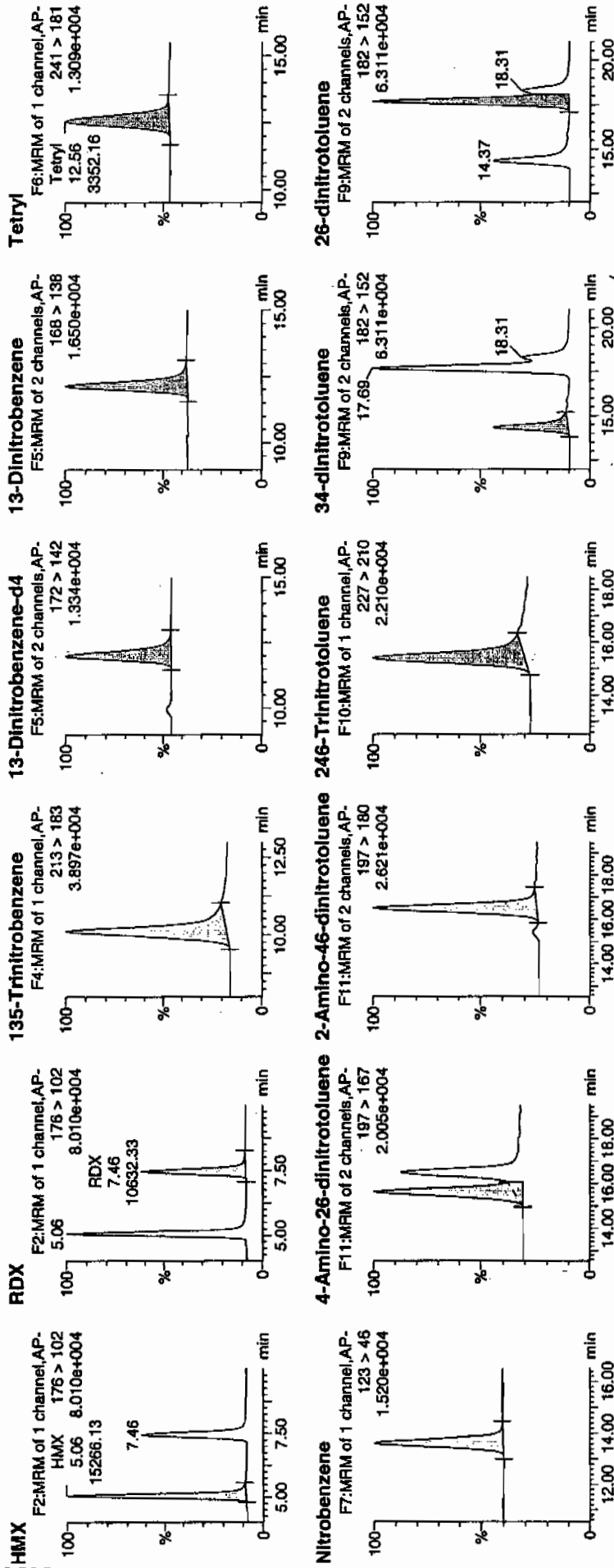
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Time: 10:41:16

ID: WXX100105-07CCV

Vial: 1:1,B

WAT
1/6/10

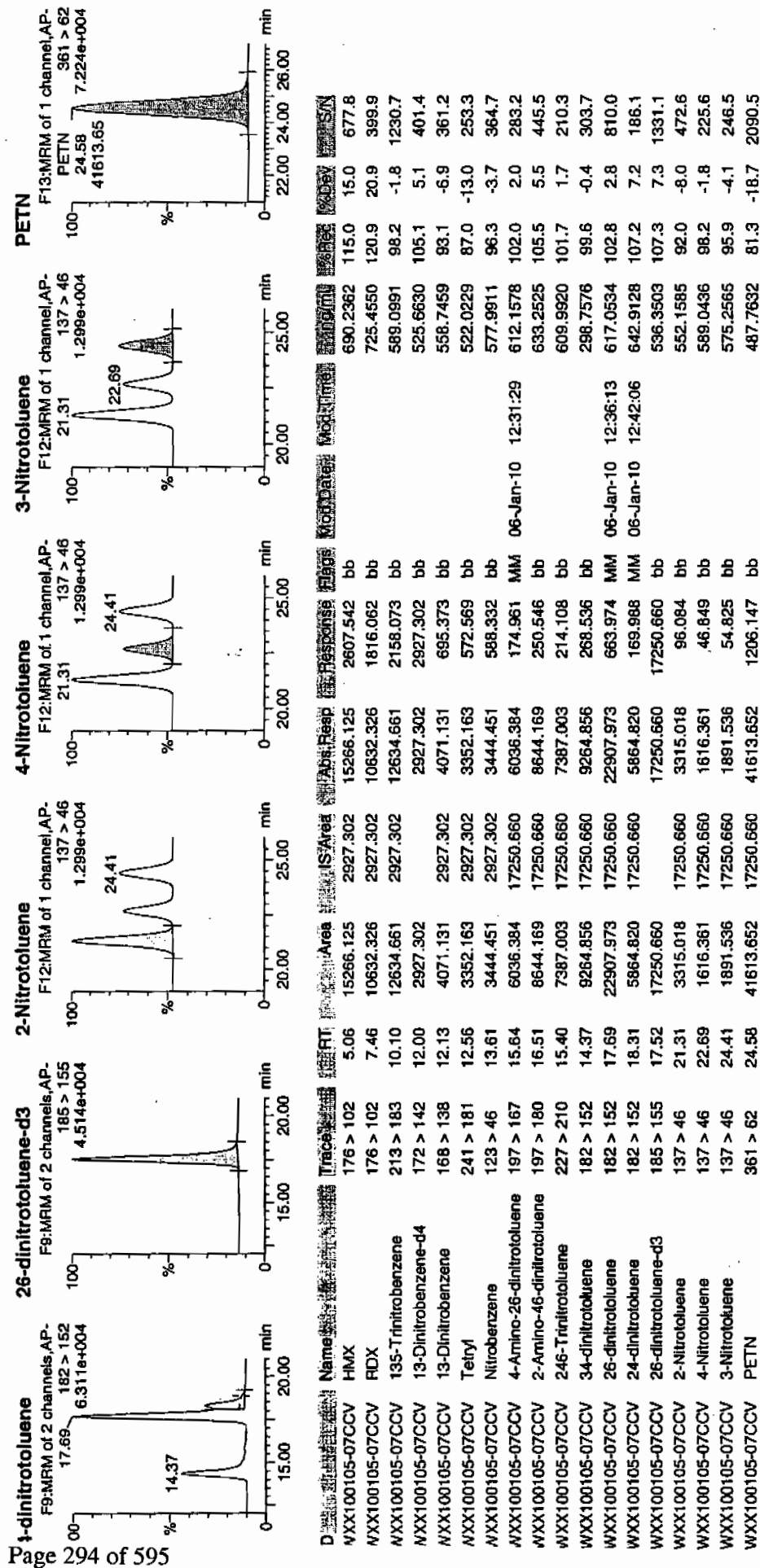


Hum oil 06/10

Printed: Wed Jan 06 12:44:40 2010, Page 66 of 71

uantify Sample Report
EL Laboratories, LLC / Analyst : Michael A. Penny

atset: Untitled, Time: Wed Jan 06 12:43:40 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/06/10
 Time of Injection: 1041
 Standard Number: WXX100105-07CCV
 Data File: EXP0105033a

HMX	115.0
RDX	120.9
135-TNB	98.2
13-DNB	93.1
Tetryl	87.0
Nitrobenzene	96.3
4A-26-DNT	102.0
2A-46-DNT	105.5
246-TNT	101.7
34-DNT(surr)	99.6
26-DNT	102.8
24-DNT	107.2
2-NT	92.0
4-NT	98.2
3-NT	95.9
PETN	81.3

Total 1596.7

Average 99.8

Handwritten: 01/06/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105035a

Analysis Date: 06-JAN-10 11:40

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	40.38	101	
1,3-Dinitrobenzene-d4	500	535.956	107	
2,4,6-Trinitrotoluene	40	36.764	92	
2,4-Dinitrotoluene	40	42.552	106	
2,6-Dinitrotoluene	40	42.341	106	
2,6-Dinitrotoluene-d3	500	526.242	105	
2-Amino-4,6-dinitrotoluene	40	42.61	107	
3,4-Dinitrotoluene	20	23.833	119	
4-Amino-2,6-dinitrotoluene	40	39.539	99	
HMX	40	42.86	107	
Nitrobenzene	40	35.561	89	
PETN	40	46.145	115	
RDX	40	39.933	100	
Tetryl	40	33.451	84	
m-Dinitrobenzene	40	40.922	102	
m-Nitrotoluene	40	38.321	96	
o-Nitrotoluene	40	44.542	111	
p-Nitrotoluene	40	56.961	142	*

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Printed: Wed Jan 06 12:44:40 2010, Page 69 of 71

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105035a

Date: 06-Jan-2010

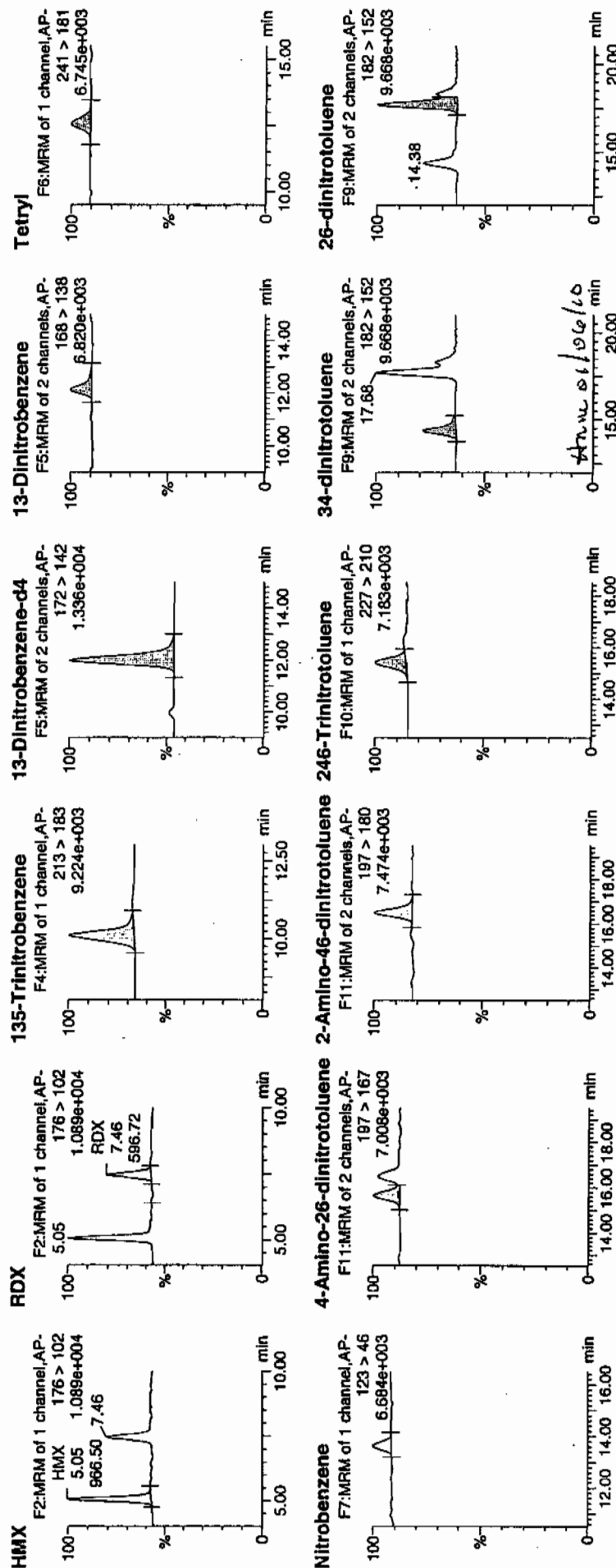
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ID: WXX100105-08CRI

Vial: 1:1,C

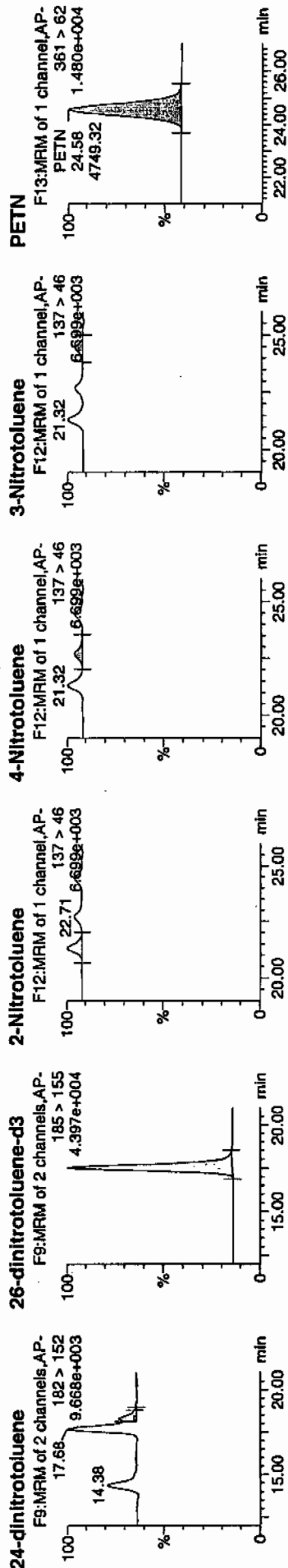
WXX
1/6/10

Page 297 of 595



GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: Untitled, Time: Wed Jan 06 12:43:40 2010



ID	Name	Trace	RT	Area	Is Area	Abundance	Response	Flags	Mod Data	Mod Time	Mod Val	Mod Rec	Mod Dev	Mod SN
WXX100105-08CRI	HMX	176 > 102	5.05	966.501	2984.623	966.501	161.913	bb			42.8597	107.1	7.1	134.0
WXX100105-08CRI	RDX	176 > 102	7.46	596.718	2984.623	596.718	99.965	bb			39.9328	99.8	-0.2	72.1
WXX100105-08CRI	135-Trinitrobenzene	213 > 183	10.11	1200.451	2984.623	1200.451	201.106	bb			40.3798	100.9	0.9	143.2
WXX100105-08CRI	13-Dinitrobenzene-d4	172 > 142	11.97	2984.623	2984.623	2984.623	2984.623	bb			535.9563	107.2	7.2	569.5
WXX100105-08CRI	13-Dinitrobenzene	168 > 138	12.10	304.004	2984.623	304.004	50.928	bb			40.9220	102.3	2.3	60.3
WXX100105-08CRI	Tetryl	241 > 181	12.58	333.217	2984.623	333.217	55.822	bb			33.4513	83.6	-16.4	28.1
WXX100105-08CRI	Nitrobenzene	123 > 46	13.63	216.067	2984.623	216.067	36.197	bb			35.5605	88.9	-11.1	13.8
WXX100105-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.65	382.538	16925.545	382.538	11.301	MM	06-Jan-10	12:31:44	39.5389	98.8	-1.2	22.6
WXX100105-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.49	570.687	16925.545	570.687	16.859	bb			42.6103	106.5	6.5	53.0
WXX100105-08CRI	246-Trinitrotoluene	227 > 210	15.41	436.826	16925.545	436.826	12.904	bb			36.7644	91.9	-8.1	27.5
WXX100105-08CRI	34-dinitrotoluene	182 > 152	14.38	725.165	16925.545	725.165	21.422	bb			23.8331	119.2	19.2	41.6
WXX100105-08CRI	26-dinitrotoluene	182 > 152	17.68	1542.273	16925.545	1542.273	45.561	MM	06-Jan-10	12:36:22	42.3409	105.9	5.9	98.0
WXX100105-08CRI	24-dinitrotoluene	182 > 152	18.32	380.858	16925.545	380.858	11.251	MM	06-Jan-10	12:42:19	42.5523	106.4	6.4	25.4
WXX100105-08CRI	26-dinitrotoluene-d3	185 > 155	17.53	16925.545	16925.545	16925.545	16925.545	bb			526.2420	105.2	5.2	897.9
WXX100105-08CRI	2-Nitrotoluene	137 > 46	21.32	262.381	16925.545	262.381	7.751	bb			44.5424	111.4	11.4	45.6
WXX100105-08CRI	4-Nitrotoluene	137 > 46	22.71	153.357	16925.545	153.357	4.530	bb			56.9608	142.4	42.4	23.6
WXX100105-08CRI	3-Nitrotoluene	137 > 46	24.43	123.632	16925.545	123.632	3.652	bb			38.3214	95.8	-4.2	23.1
WXX100105-08CRI	PETN	361 > 62	24.58	4749.321	16925.545	4749.321	140.300	bb			46.1450	115.4	15.4	348.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/06/10
 Time of Injection 1140
 Standard Number WXX100105-08CRI
 Data File EXP0105035a

HMX	107.1
RDX	99.8
135-TNB	100.9
13-DNB	102.3
Tetryl	83.6
Nitrobenzene	88.9
4A-26-DNT	98.8
2A-46-DNT	106.5
246-TNT	91.9
34-DNT(surr)	119.2
26-DNT	105.9
24-DNT	106.4
2-NT	111.4
4-NT	142.4
3-NT	95.8
PETN	115.4

Total 1676.3

Average 104.8

Handwritten: 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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105045a

Analysis Date: 06-JAN-10 16:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	300	328.966	110	
4-Amino-2,6-dinitrotoluene	600	668.561	111	
HMX	600	723.56	121	*
Nitrobenzene	600	601.245	100	
PETN	600	513.043	86	
RDX	600	747.744	125	*
Tetryl	600	563.6	94	
m-Dinitrobenzene	600	593.372	99	
m-Nitrotoluene	600	584.012	97	
o-Nitrotoluene	600	593.524	99	
p-Nitrotoluene	600	662.314	110	
1,3,5-Trinitrobenzene	600	588.1	98	
1,3-Dinitrobenzene-d4	500	501.187	100	
2,4,6-Trinitrotoluene	600	634.909	106	
2,4-Dinitrotoluene	600	531.203	89	
2,6-Dinitrotoluene	600	619.001	103	
2,6-Dinitrotoluene-d3	500	514.361	103	
2-Amino-4,6-dinitrotoluene	600	678.338	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

Printed: Thu Jan 07 09:13:50 2010, Page 19 of 77

uantify Sample Report
EL Laboratories, LLC / Analyst : Michael A. Penny

atset: C:\MASSLYNX\New_Exp.PRO\010510expA1.qld, Time: Thu Jan 07 09:13:14 2010

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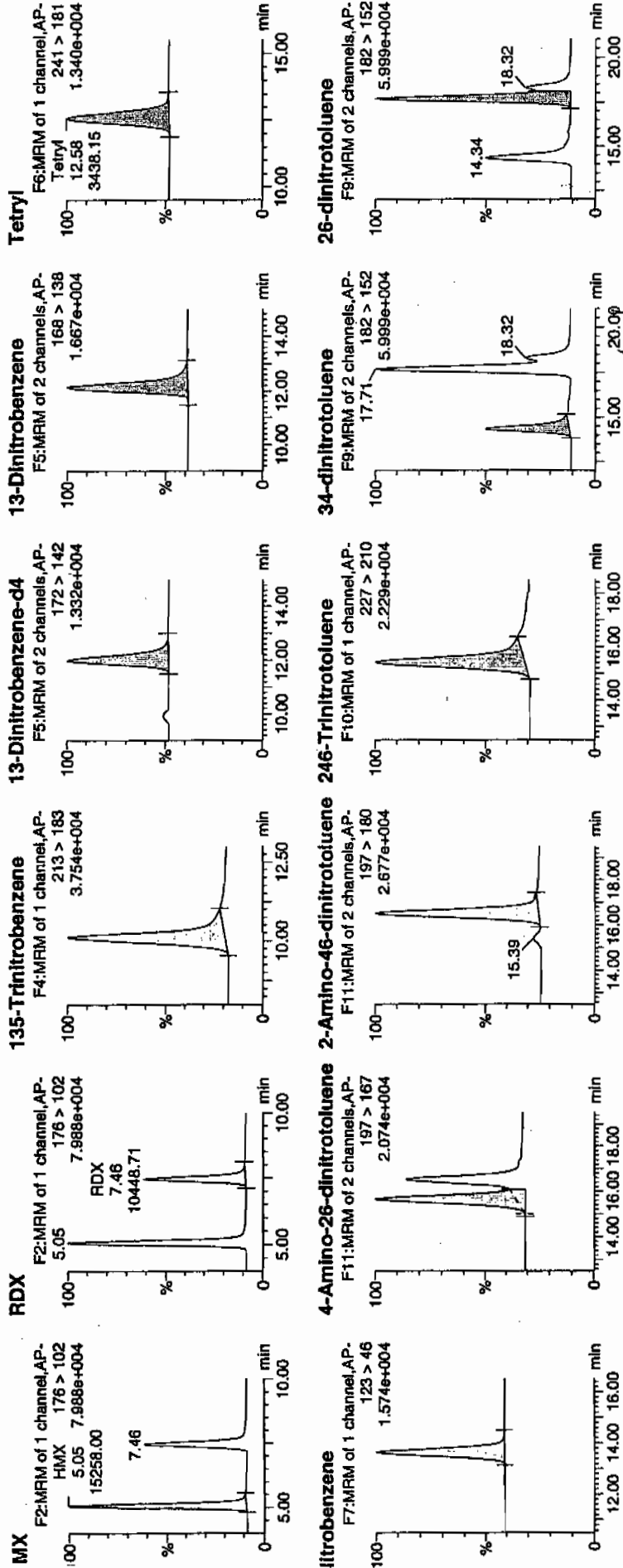
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WX100105-07CCV

al: 1:1,B

1/2/10

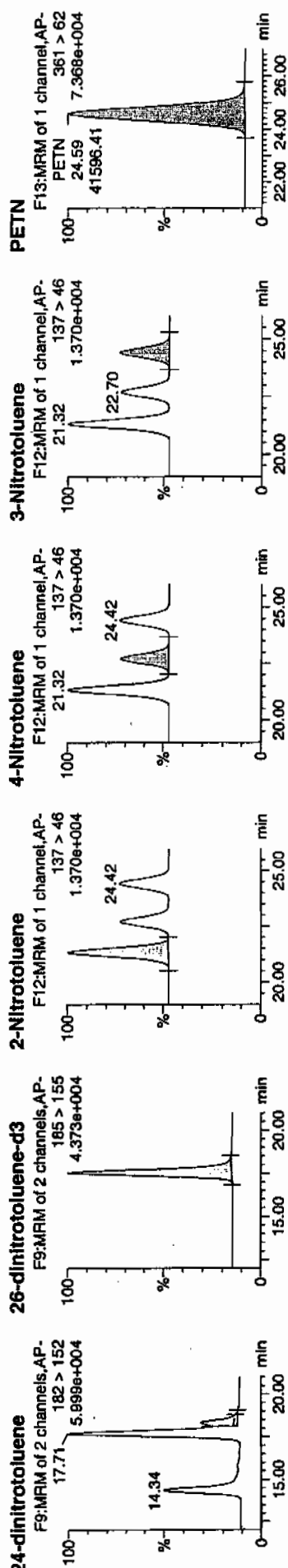


4mm at 07/10

Printed: Thu Jan 07 09:13:50 2010, Page 20 of 77

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

Dataset: C:\MASSLYNX\New_Exp_PRO\010510expA1.qld, Time: Thu Jan 07 09:13:14 2010



ID	Name	Trace	Area	IS Area	Response	Flags	Mod Time	Mod User	Area	IS Area	Response	Flags	Mod Time	Mod User	Area	IS Area	Response	Flags	Mod Time	Mod User
WXX100105-07CCV	HMX	176 > 102	5.05	15257.997	2790.999	15257.997	2733.429	bb	723.5595	120.6	20.6	1045.6			723.5595	120.6	20.6	1045.6		
WXX100105-07CCV	RDX	176 > 102	7.46	10448.714	2790.999	10448.714	1871.859	bb	747.7439	124.6	24.6	606.3			747.7439	124.6	24.6	606.3		
WXX100105-07CCV	135-Trinitrobenzene	213 > 183	10.11	12024.187	2790.999	12024.187	2154.101	bb	588.0999	98.0	-2.0	2346.8			588.0999	98.0	-2.0	2346.8		
WXX100105-07CCV	13-Dinitrobenzene-d4	172 > 142	12.00	2790.999		2790.999		bb	501.1867	100.2	0.2	342.6			501.1867	100.2	0.2	342.6		
WXX100105-07CCV	13-Dinitrobenzene	168 > 138	12.14	4122.117	2790.999	4122.117	738.466	bb	593.3725	98.9	-1.1	725.9			593.3725	98.9	-1.1	725.9		
WXX100105-07CCV	Tetryl	241 > 181	12.58	3438.150	2790.999	3438.150	615.935	bb	563.5995	93.9	-6.1	183.7			563.5995	93.9	-6.1	183.7		
WXX100105-07CCV	Nitrobenzene	123 > 46	13.63	3416.194	2790.999	3416.194	612.002	bb	601.2451	100.2	0.2	224.6			601.2451	100.2	0.2	224.6		
WXX100105-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.65	6322.285	16543.422	6322.285	191.082	MM	668.5608	111.4	11.4	360.9			668.5608	111.4	11.4	360.9		
WXX100105-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.53	8879.978	16543.422	8879.978	268.384	bb	678.3376	113.1	13.1	162.9			678.3376	113.1	13.1	162.9		
WXX100105-07CCV	246-Trinitrotoluene	227 > 210	15.41	7373.524	16543.422	7373.524	222.854	bb	634.9088	105.8	5.8	453.4			634.9088	105.8	5.8	453.4		
WXX100105-07CCV	34-dinitrotoluene	182 > 152	14.34	9783.403	16543.422	9783.403	295.689	bb	328.9657	109.7	9.7	317.2			328.9657	109.7	9.7	317.2		
WXX100105-07CCV	26-dinitrotoluene	182 > 152	17.71	22038.148	16543.422	22038.148	666.070	MM	619.0012	103.2	3.2	731.1			619.0012	103.2	3.2	731.1		
WXX100105-07CCV	24-dinitrotoluene	182 > 152	18.32	4647.112	16543.422	4647.112	140.452	MM	531.2034	88.5	-11.5	156.3			531.2034	88.5	-11.5	156.3		
WXX100105-07CCV	26-dinitrotoluene-d3	185 > 155	17.53	16543.422		16543.422		bb	514.3612	102.9	2.9	1970.5			514.3612	102.9	2.9	1970.5		
WXX100105-07CCV	2-Nitrotoluene	137 > 46	21.32	3417.277	16543.422	3417.277	103.282	bb	593.5242	98.9	-1.1	833.1			593.5242	98.9	-1.1	833.1		
WXX100105-07CCV	4-Nitrotoluene	137 > 46	22.70	1742.909	16543.422	1742.909	52.677	bb	662.3143	110.4	10.4	401.1			662.3143	110.4	10.4	401.1		
WXX100105-07CCV	3-Nitrotoluene	137 > 46	24.42	1841.597	16543.422	1841.597	55.659	bb	584.0122	97.3	-2.7	411.3			584.0122	97.3	-2.7	411.3		
WXX100105-07CCV	PETN	361 > 62	24.59	41596.410	16543.422	41596.410	1257.189	bb	513.0432	85.5	-14.5	2712.9			513.0432	85.5	-14.5	2712.9		

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/06/10
 Time of Injection: 1634
 Standard Number: WXX100105-07CCV
 Data File: EXP0105045a

HMX	120.6
RDX	124.6
135-TNB	98.0
13-DNB	98.9
Tetryl	93.9
Nitrobenzene	100.2
4A-26-DNT	111.4
2A-46-DNT	113.1
246-TNT	105.8
34-DNT(surr)	109.7
26-DNT	103.2
24-DNT	88.5
2-NT	98.9
4-NT	110.4
3-NT	97.3
PETN	85.5
Total	1660.0

12/1/10

Average

103.8

Handwritten: 01/07/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105047a

Analysis Date: 06-JAN-10 17:34

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	45.394	113	
1,3-Dinitrobenzene-d4	500	521.479	104	
2,4,6-Trinitrotoluene	40	35.708	89	
2,4-Dinitrotoluene	40	35.954	90	
2,6-Dinitrotoluene	40	40.094	100	
2,6-Dinitrotoluene-d3	500	533.778	107	
2-Amino-4,6-dinitrotoluene	40	48.509	121	
3,4-Dinitrotoluene	20	22.098	110	
4-Amino-2,6-dinitrotoluene	40	43.013	108	
HMX	40	51.054	128	
Nitrobenzene	40	41.108	103	
PETN	40	47.17	118	
RDX	40	47.781	119	
Tetryl	40	33.286	83	
m-Dinitrobenzene	40	39.18	98	
m-Nitrotoluene	40	58.178	145	*
o-Nitrotoluene	40	47.789	119	
p-Nitrotoluene	40	57.68	144	*

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

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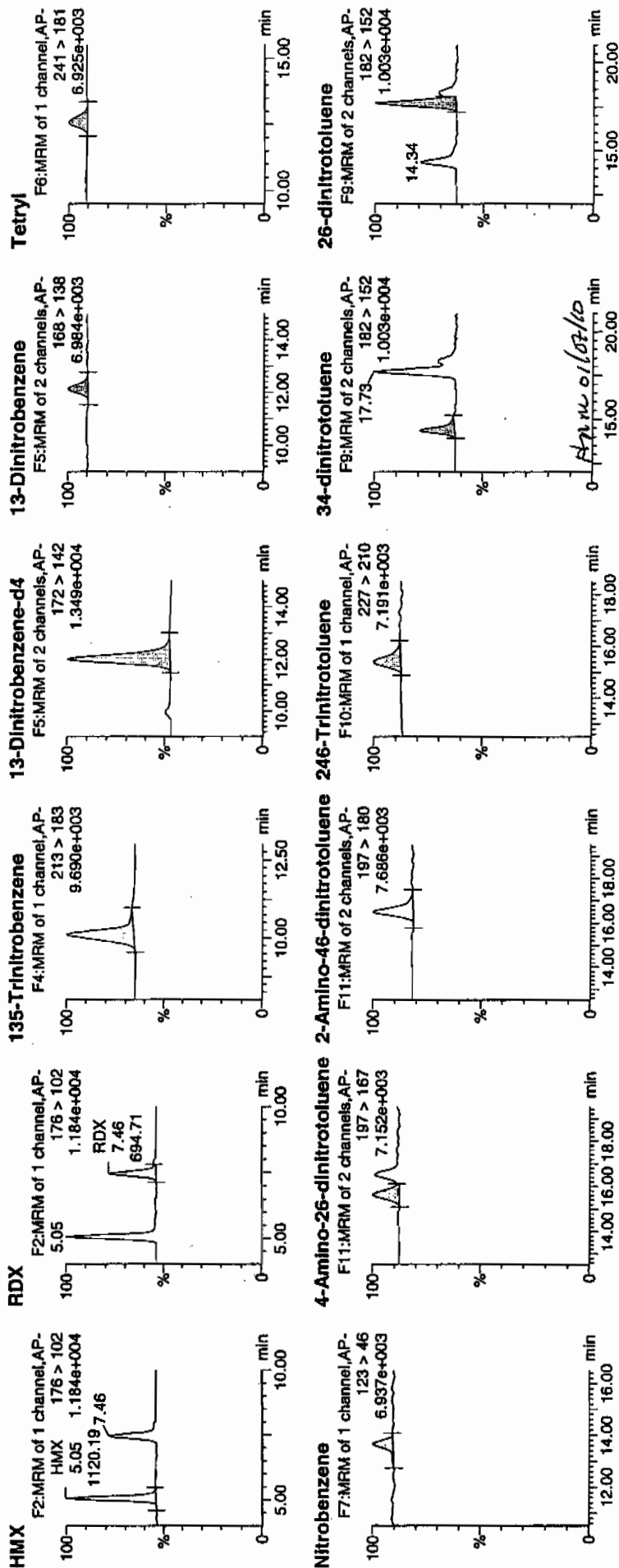
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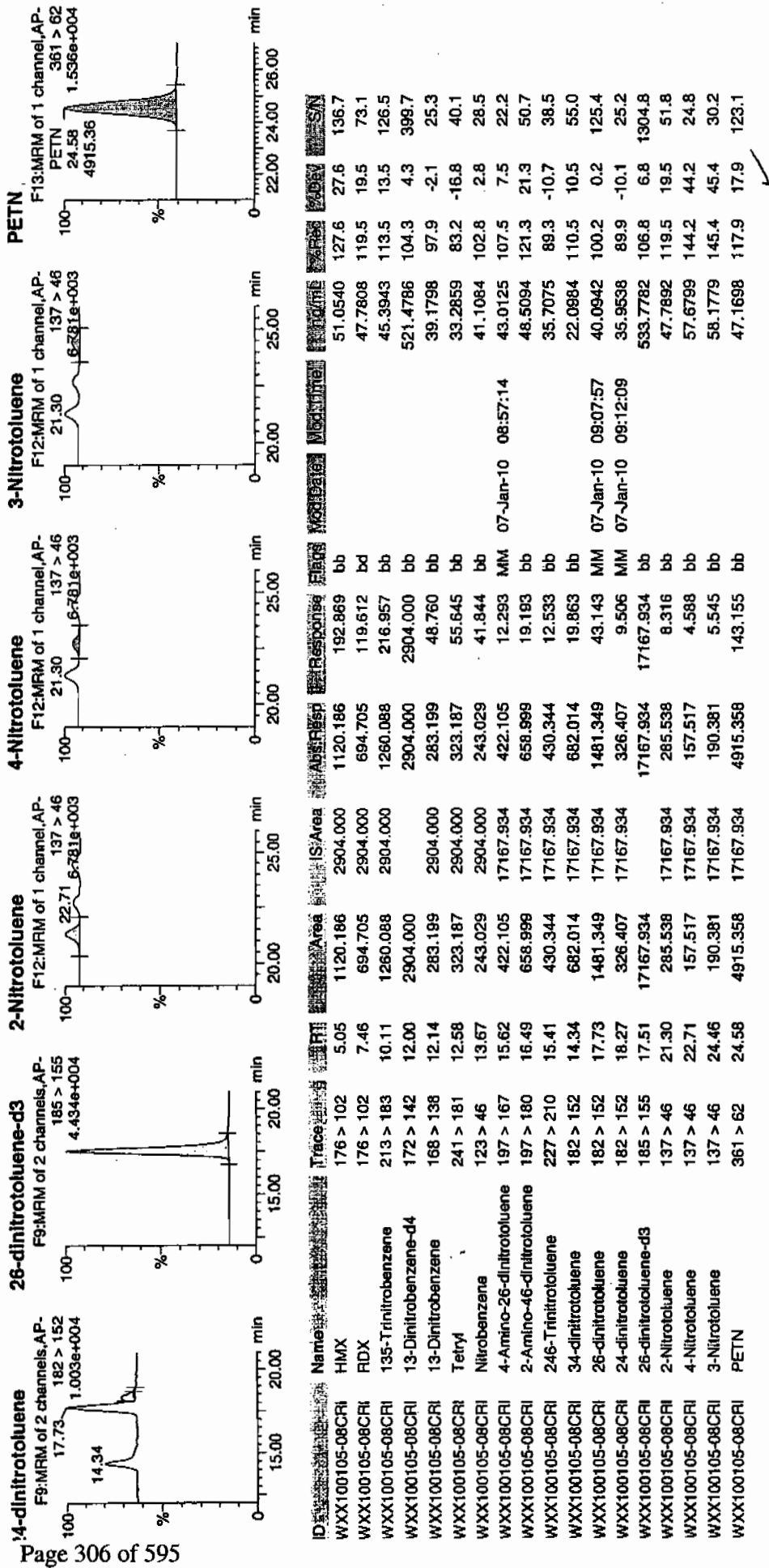
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Quantify Sample Report
JEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA1.qld, Time: Thu Jan 07 09:13:14 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/06/10
 Time of Injection 1734
 Standard Number WXX100105-08CRI
 Data File EXP0105047a

HMX	127.6
RDX	119.5
135-TNB	113.5
13-DNB	97.9
Tetryl	83.2
Nitrobenzene	102.8
4A-26-DNT	107.5
2A-46-DNT	121.3
246-TNT	89.3
34-DNT(surr)	110.5
26-DNT	100.2
24-DNT	89.9
2-NT	119.5
4-NT	144.2
3-NT	145.4
PETN	117.9

*with
1/7/10*

Total 1790.2

Average 111.9

Amue 01/07/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105058a

Analysis Date: 06-JAN-10 22:58

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	600	561.262	94	
o-Nitrotoluene	600	544.753	91	
p-Nitrotoluene	600	706.437	118	
1,3,5-Trinitrobenzene	600	602.598	100	
1,3-Dinitrobenzene-d4	500	536.365	107	
2,4,6-Trinitrotoluene	600	656.464	109	
2,4-Dinitrotoluene	600	593.527	99	
2,6-Dinitrotoluene	600	623.713	104	
2,6-Dinitrotoluene-d3	500	529.861	106	
2-Amino-4,6-dinitrotoluene	600	659.777	110	
3,4-Dinitrotoluene	300	307.9	103	
4-Amino-2,6-dinitrotoluene	600	598.797	100	
HMX	600	594.843	99	
Nitrobenzene	600	539.994	90	
PETN	600	559.629	93	
RDX	600	683.46	114	
Tetryl	600	540.492	90	
m-Dinitrobenzene	600	592.957	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%
Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Printed: Thu Jan 07 09:13:50 2010, Page 45 of 77

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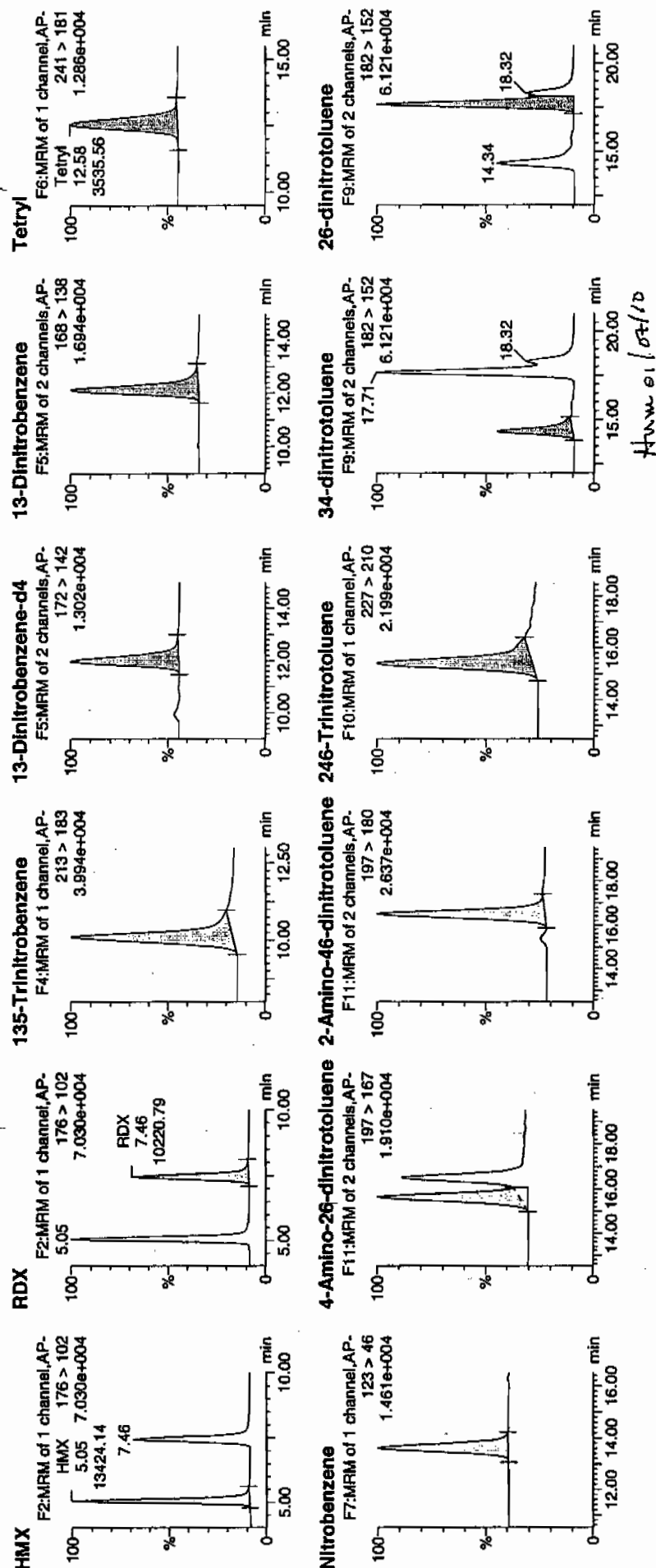
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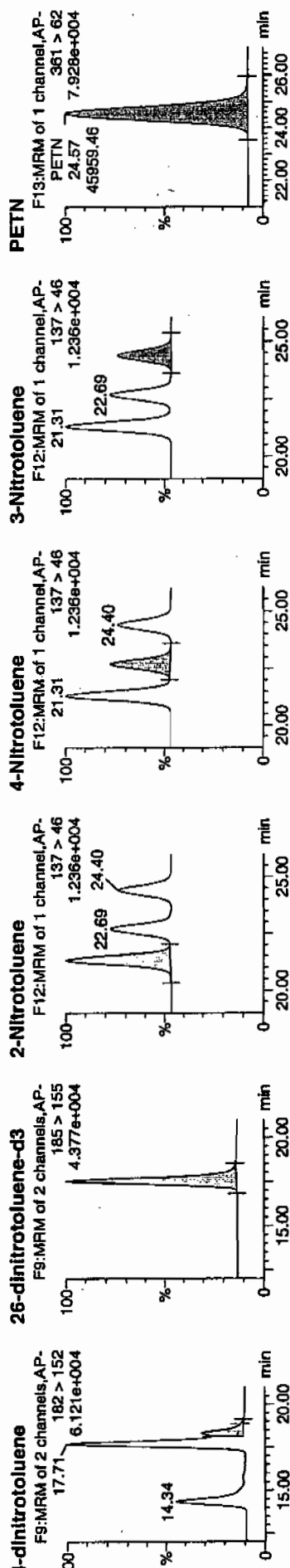
1/2/10



Hum 01/07/10

Printed: Thu Jan 07 09:13:50 2010, Page 46 of 77

Dataset: C:\MASSLYNX\New Exp.PRO\010510expA1.qld, Time: Thu Jan 07 09:13:14 2010



ID	Name	Trace	RT	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
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GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/06/10
 Time of Injection: 2258
 Standard Number: WXX100105-07CCV
 Data File: EXP0105058a

HMX	99.1
RDX	113.9
135-TNB	100.4
13-DNB	98.8
Tetryl	90.1
Nitrobenzene	90.0
4A-26-DNT	99.8
2A-46-DNT	110.0
246-TNT	109.4
34-DNT(surr)	102.6
26-DNT	104.0
24-DNT	98.9
2-NT	90.8
4-NT	117.7
3-NT	93.5
PETN	93.3

*mt
1/9/10*

Total 1612.3

Average 100.8

Sum 01/07/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105060a

Analysis Date: 06-JAN-10 23:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	40	31.552	79	
HMX	40	44.385	111	
Nitrobenzene	40	30.885	77	
PETN	40	48.108	120	
RDX	40	36.538	91	
Tetryl	40	27.603	69	*
m-Dinitrobenzene	40	39.816	100	
m-Nitrotoluene	40	39.914	100	
o-Nitrotoluene	40	39.779	99	
p-Nitrotoluene	40	36.341	91	
1,3,5-Trinitrobenzene	40	29.076	73	
1,3-Dinitrobenzene-d4	500	631.708	126	
2,4,6-Trinitrotoluene	40	29.816	75	
2,4-Dinitrotoluene	40	26.941	67	*
2,6-Dinitrotoluene	40	40.41	101	
2,6-Dinitrotoluene-d3	500	567.695	114	
2-Amino-4,6-dinitrotoluene	40	36.992	92	
3,4-Dinitrotoluene	20	18.988	95	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Thu Jan 07 09:13:50 2010, Page 49 of 77

Identify Sample Report
L Laboratories, LLC / Analyst : Michael A. Penny

Asset: C:\MASSLYNX\New_Exp.PRO\010510expA1.qld, Time: Thu Jan 07 09:13:14 2010

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te: 06-Jan-2010

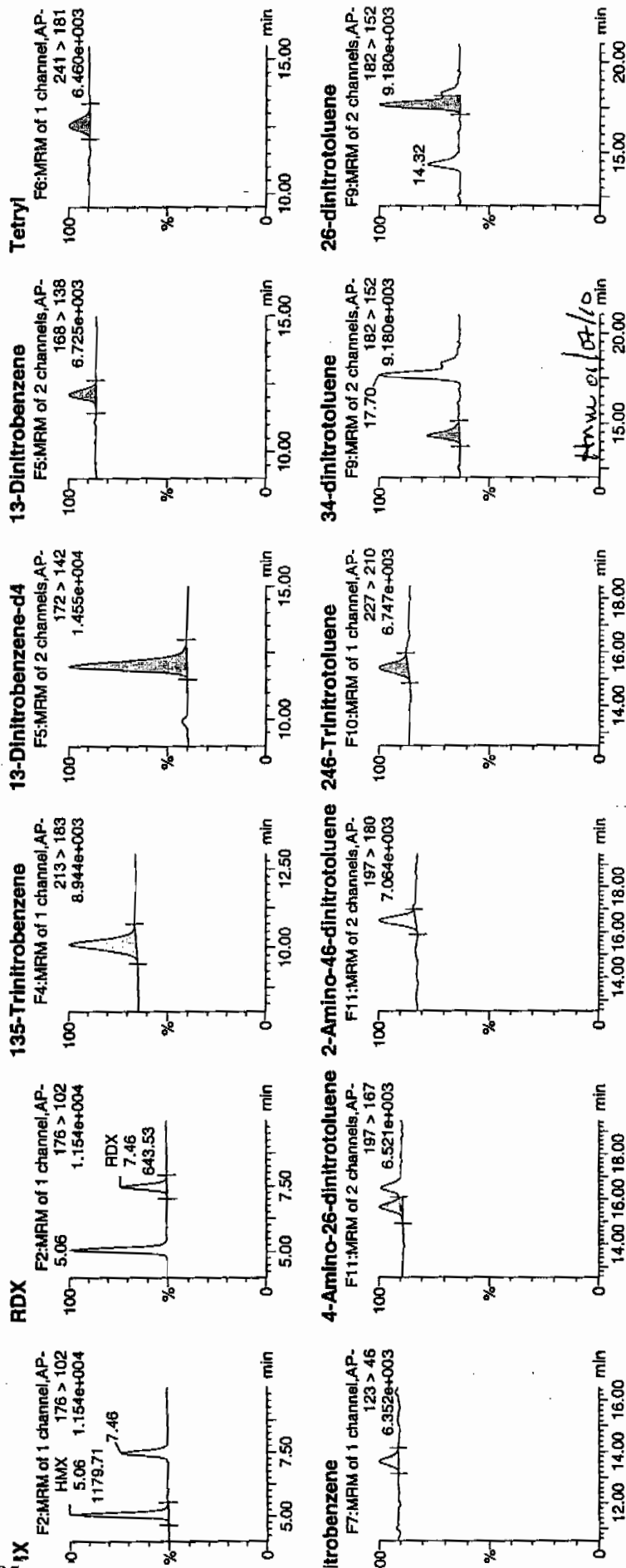
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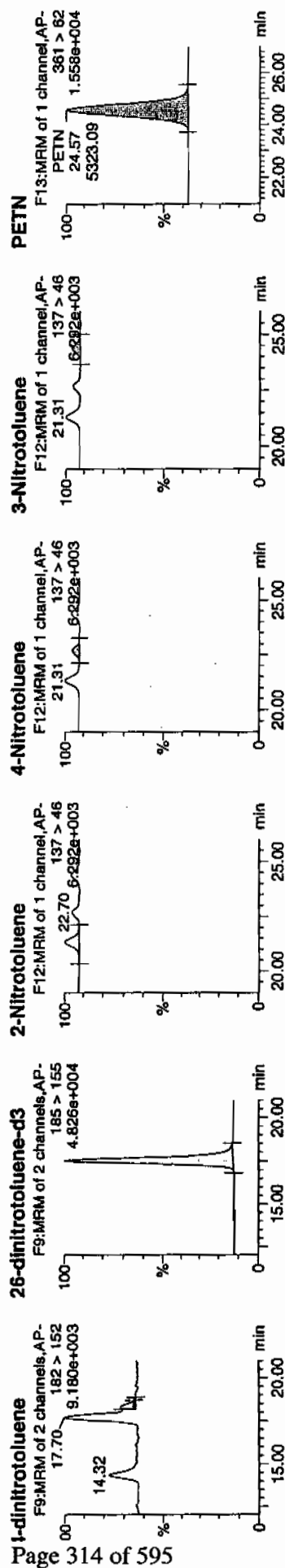
WXX100105-08CRI

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Page 313 of 595

1/7/10





Name	Table	RT	Area	IS Avg	Abs. Resp	Flags	Mod Date	Mod Time	Tomlin	Flags	Mod Date	Mod Time	Tomlin	ISN
HMx	176 > 102	5.06	1179.707	3517.844	1179.707	167.675	bb		44.3848	111.0	11.0	244.1		
RDx	176 > 102	7.46	643.526	3517.844	643.526	91.466	bb		36.5375	91.3	-8.7	113.0		
135-Trinitrobenzene	213 > 183	10.09	1164.486	3517.844	1164.486	165.511	bb		29.0762	72.7	-27.3	193.2		
13-Dinitrobenzene-d4	172 > 142	12.00	3517.844		3517.844	3517.844	bb		631.7081	126.3	26.3	382.9		
13-Dinitrobenzene	168 > 138	12.13	348.634	3517.844	348.634	49.552	bb		39.8162	99.5	-0.5	38.8		
Tetryl	241 > 181	12.56	348.664	3517.844	348.664	49.556	bb		27.6025	69.0	-31.0	45.3		
Nitrobenzene	123 > 46	13.61	221.181	3517.844	221.181	31.437	bb		30.8845	77.2	-22.8	21.9		
4-Amino-26-dinitrotoluene	197 > 167	15.64	329.315	18258.816	329.315	9.018	MM	07-Jan-10	08:57:56	31.5523	78.9	-21.1	22.2	
2-Amino-46-dinitrotoluene	197 > 180	16.51	534.464	18258.816	534.464	14.636	bb		36.9918	92.5	-7.5	63.3		
246-Trinitrotoluene	187 > 210	15.40	382.168	18258.816	382.168	10.465	bb		29.8156	74.5	-25.5	35.0		
34-dinitrotoluene	182 > 152	14.32	623.256	18258.816	623.256	17.067	bb		18.9980	94.9	-5.1	36.8		
26-dinitrotoluene	182 > 152	17.70	1587.905	18258.816	1587.905	43.483	MM	07-Jan-10	09:08:46	40.4104	101.0	1.0	93.8	
24-dinitrotoluene	182 > 152	18.26	260.129	18258.816	260.129	7.123	MM	07-Jan-10	09:10:23	26.9413	67.4	-32.6	19.7	
26-dinitrotoluene-d3	185 > 155	17.52	18258.816		18258.816	18258.816	bb		567.6955	113.5	13.5	825.7		
2-Nitrotoluene	137 > 46	21.31	252.777	18258.816	252.777	6.922	bb		39.7785	99.4	-0.6	34.7		
4-Nitrotoluene	137 > 46	22.70	105.549	18258.816	105.549	2.890	bb		36.3410	90.9	-9.1	16.9		
3-Nitrotoluene	137 > 46	24.37	138.914	18258.816	138.914	3.804	bb		39.9141	99.8	-0.2	20.1		
PETN	361 > 62	24.57	5323.091	18258.816	5323.091	145.768	bb		48.1082	120.3	20.3	754.6		

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/06/10
 Time of Injection 2357
 Standard Number WXX100105-08CRI
 Data File EXP0105060a

HMX	111.0
RDX	91.3
135-TNB	72.7
13-DNB	99.5
Tetryl	69.0
Nitrobenzene	77.2
4A-26-DNT	78.9
2A-46-DNT	92.5
246-TNT	74.5
34-DNT(surr)	94.9
26-DNT	101.0
24-DNT	67.4
2-NT	99.4
4-NT	90.9
3-NT	99.8
PETN	120.3

*WHT
1/7/10*

Total 1440.3

WHT 01/06/10

Average 90.0

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105071a

Analysis Date: 07-JAN-10 05:21

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	615.217	103	
1,3-Dinitrobenzene-d4	500	490.643	98	
2,4,6-Trinitrotoluene	600	662.413	110	
2,4-Dinitrotoluene	600	589.376	98	
2,6-Dinitrotoluene	600	607.152	101	
2,6-Dinitrotoluene-d3	500	493.629	99	
2-Amino-4,6-dinitrotoluene	600	696.365	116	
3,4-Dinitrotoluene	300	321.262	107	
4-Amino-2,6-dinitrotoluene	600	636.366	106	
HMX	600	651.751	109	
Nitrobenzene	600	554.25	92	
PETN	600	622.345	104	
RDX	600	685.342	114	
Tetryl	600	640.176	107	
m-Dinitrobenzene	600	607.51	101	
m-Nitrotoluene	600	552.913	92	
o-Nitrotoluene	600	560.881	93	
p-Nitrotoluene	600	602.043	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

Printed: Thu Jan 07 09:13:50 2010, Page 71 of 77

uantify Sample Report
EL Laboratories, LLC / Analyst: Michael A. Penny

atset: C:\MASSLYNX\New_Exp\PRO\010510expA1.qld, Time: Thu Jan 07 09:13:14 2010

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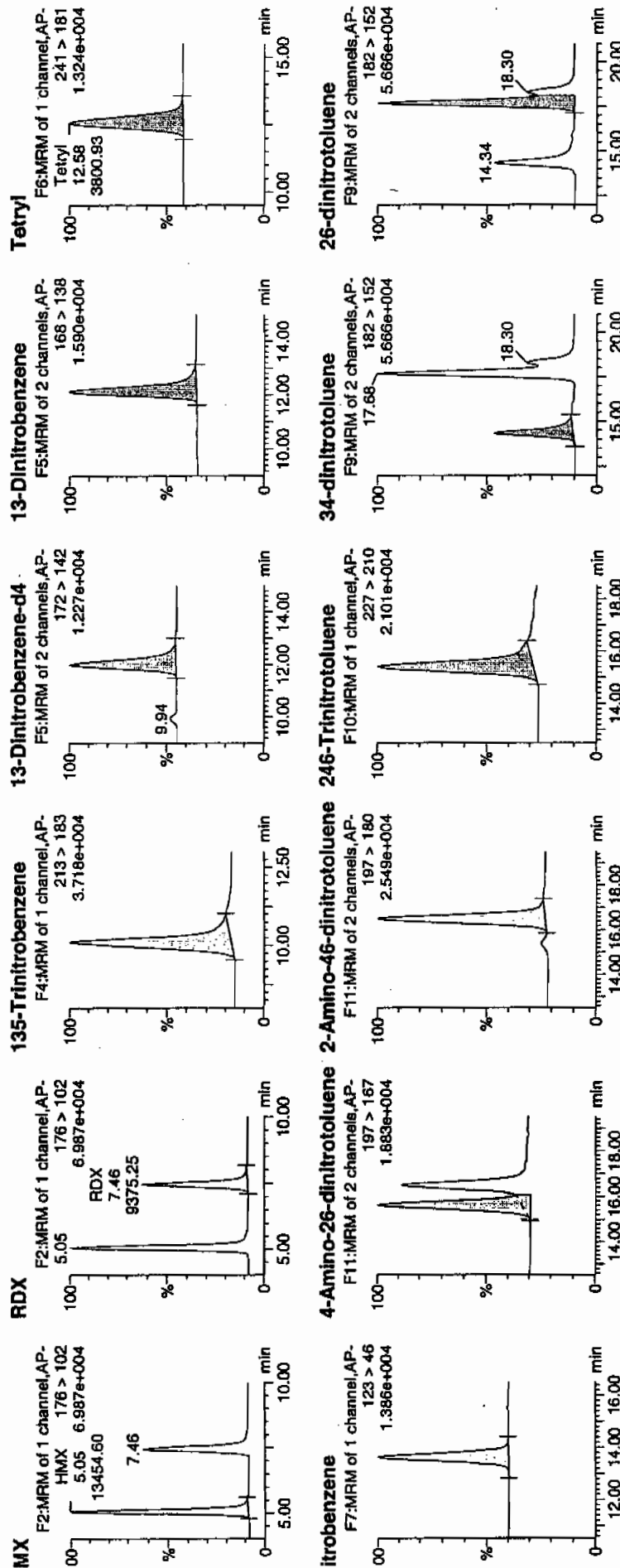
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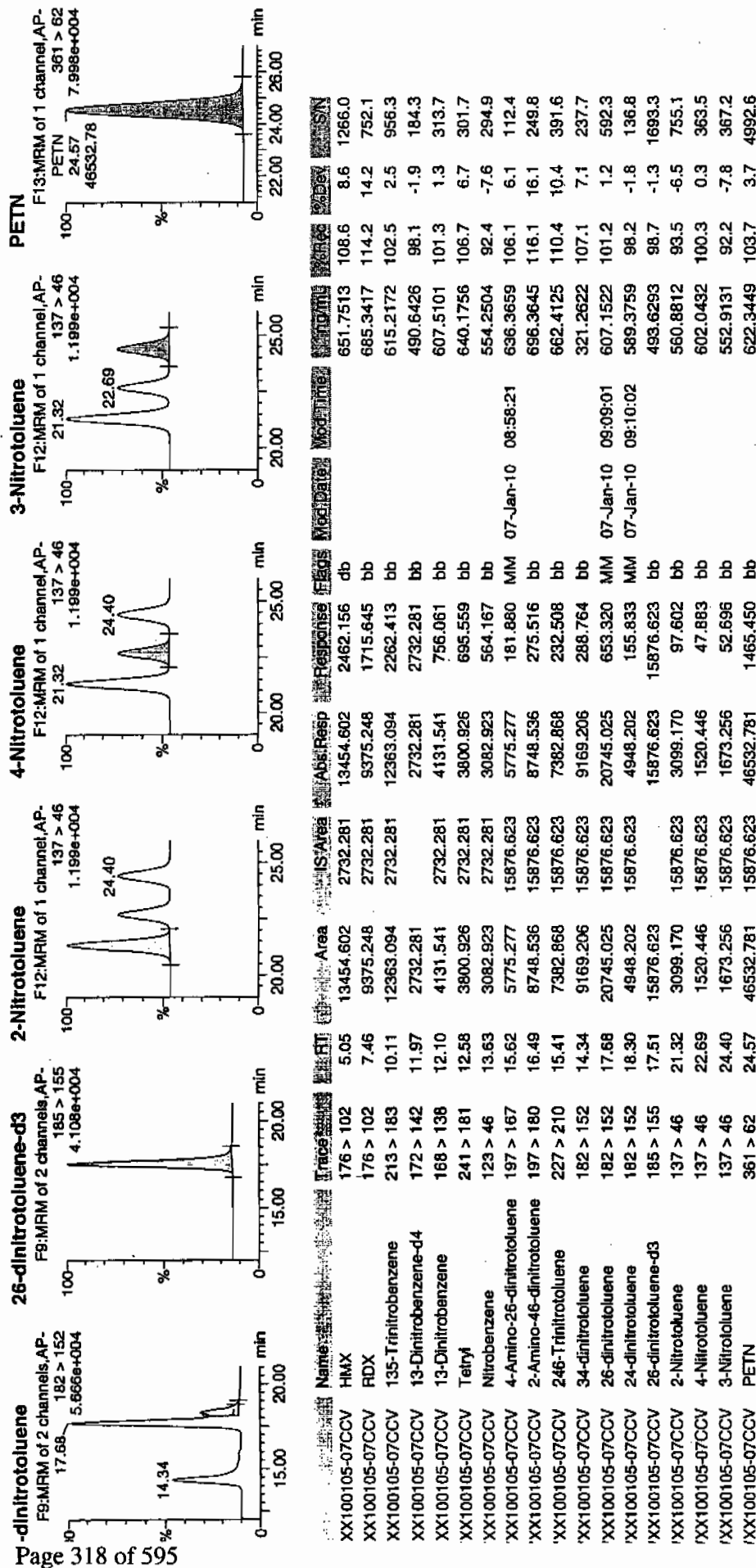


Time 01/07/10

Printed: Thu Jan 07 09:13:50 2010, Page 72 of 77

Identify Sample Report
iL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1010510expA1.qld, Time: Thu Jan 07 09:13:14 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/07/10
 Time of Injection: 0521
 Standard Number: WXX100105-07CCV
 Data File: EXP0105071a

HMX	108.6
RDX	114.2
135-TNB	102.5
13-DNB	101.3
Tetryl	106.7
Nitrobenzene	92.4
4A-26-DNT	106.1
2A-46-DNT	116.1
246-TNT	110.4
34-DNT(surr)	107.1
26-DNT	101.2
24-DNT	98.2
2-NT	93.5
4-NT	100.3
3-NT	92.2
PETN	103.7

*not
1/7/10*

Total 1654.5

Average 103.4

done 01/07/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105073a

Analysis Date: 07-JAN-10 06:21

LCMSMS ID: 903

Column ID: Phenomenex Ultra[®]carb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	43.929	110	
1,3-Dinitrobenzene-d4	500	519.191	104	
2,4,6-Trinitrotoluene	40	44.124	110	
2,4-Dinitrotoluene	40	40.259	101	
2,6-Dinitrotoluene	40	43.367	108	
2,6-Dinitrotoluene-d3	500	507.304	101	
2-Amino-4,6-dinitrotoluene	40	43.409	109	
3,4-Dinitrotoluene	20	28.959	145	*
4-Amino-2,6-dinitrotoluene	40	44.563	111	
HMX	40	45.43	114	
Nitrobenzene	40	55.429	139	*
PETN	40	54.458	136	*
RDX	40	47.689	119	
Tetryl	40	35.317	88	
m-Dinitrobenzene	40	47.956	120	
m-Nitrotoluene	40	47.982	120	
o-Nitrotoluene	40	40.006	100	
p-Nitrotoluene	40	48.56	121	

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\PROX10510expA1.qld, Time: Thu Jan 07 09:13:14 2010

Name: C:\MASSLYNX\NEW_EXP\PROX10510expA1.qld, Time: Thu Jan 07 09:13:14 2010

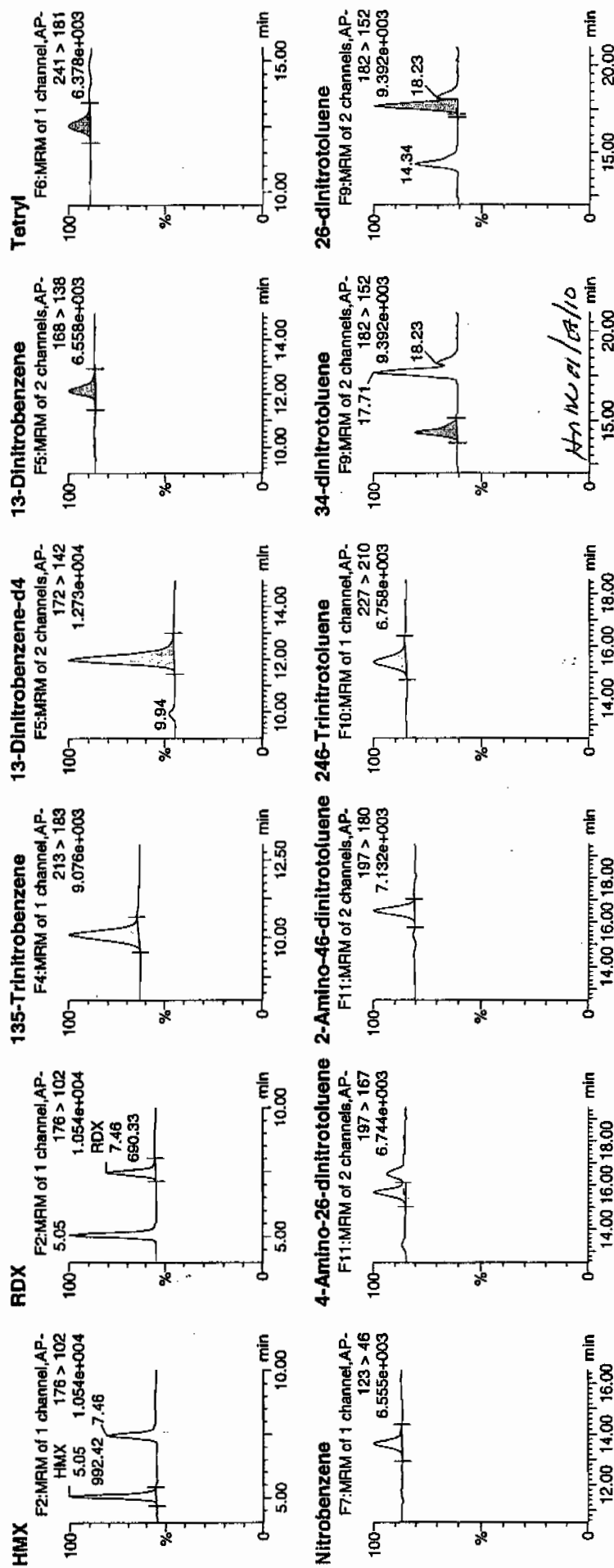
Date: 07-Jan-2010

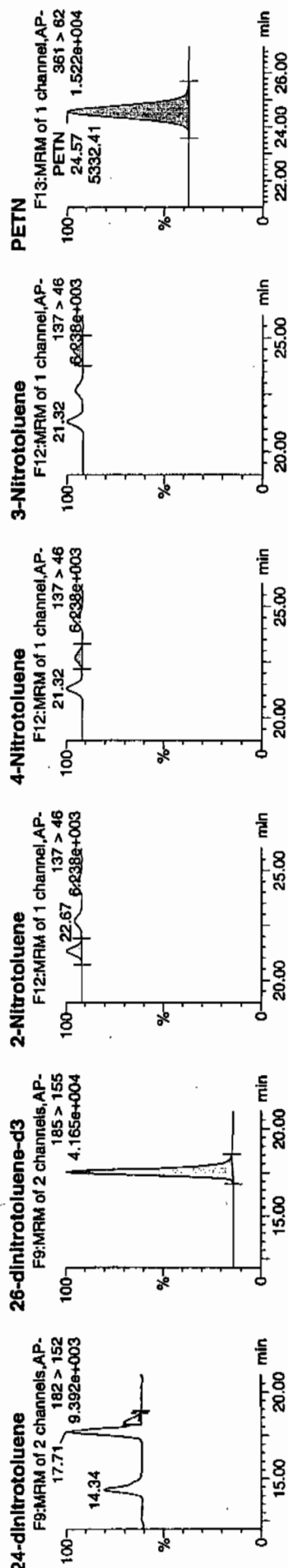
Time: 06:21:11

ID: WXX100105-08CRI

Vial: 1:1,C

1/10





ID	Name	Trace	RT	Area	IS Area	Abund	Response	Flags	Mod Date	Mod Time	Norm	Resol	Peak	Area	SN
WXX100105-08CRI	HMX	176 > 102	5.05	992.424	2891.260	992.424	171.625	bb			45.4304	113.6	13.6	181.4	
WXX100105-08CRI	RDX	176 > 102	7.46	690.329	2891.260	690.329	119.382	bb			47.6891	119.2	19.2	105.4	
WXX100105-08CRI	135-Trinitrobenzene	213 > 183	10.11	1227.752	2891.260	1227.752	212.321	bb			43.9289	109.8	9.8	384.0	
WXX100105-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	2891.260	2891.260	2891.260	2891.260	bb			519.1908	103.8	3.8	352.4	
WXX100105-08CRI	13-Dinitrobenzene	168 > 138	12.14	345.111	2891.260	345.111	59.682	bb			47.9555	119.9	19.9	36.1	
WXX100105-08CRI	TeiryI	241 > 181	12.53	334.350	2891.260	334.350	57.821	bb			35.3172	88.3	-11.7	49.8	
WXX100105-08CRI	Nitrobenzene	123 > 46	13.63	326.256	2891.260	326.256	56.421	bb			55.4294	138.6	38.6	27.2	
WXX100105-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.65	415.626	16316.440	415.626	12.736	MM	07-Jan-10	08:58:27	44.5625	111.4	11.4	39.2	
WXX100105-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.52	560.464	16316.440	560.464	17.175	bb			43.4092	108.5	8.5	64.2	
WXX100105-08CRI	246-Trinitrotoluene	187 > 210	15.41	505.398	16316.440	505.398	15.487	bb			44.1235	110.3	10.3	73.7	
WXX100105-08CRI	34-dinitrotoluene	182 > 152	14.34	849.422	16316.440	849.422	26.030	bb			28.9590	144.8	44.8	33.0	
WXX100105-08CRI	26-dinitrotoluene	182 > 152	17.71	1522.795	16316.440	1522.795	46.864	MM	07-Jan-10	09:09:15	43.3668	108.4	8.4	65.6	
WXX100105-08CRI	24-dinitrotoluene	182 > 152	18.23	347.367	16316.440	347.367	10.645	MM	07-Jan-10	09:09:51	40.2593	100.6	0.6	16.3	
WXX100105-08CRI	26-dinitrotoluene-d3	185 > 155	17.53	16316.440	16316.440	16316.440	16316.440	bb			507.3039	101.5	1.5	1957.5	
WXX100105-08CRI	2-Nitrotoluene	137 > 46	21.32	227.180	16316.440	227.180	6.962	bb			40.0063	100.0	0.0	13.6	
WXX100105-08CRI	4-Nitrotoluene	137 > 46	22.67	126.035	16316.440	126.035	3.862	bb			48.5602	121.4	21.4	6.3	
WXX100105-08CRI	3-Nitrotoluene	137 > 46	24.42	149.228	16316.440	149.228	4.573	bb			47.9819	120.0	20.0	8.1	
WXX100105-08CRI	PETN	361 > 62	24.57	5332.409	16316.440	5332.409	163.406	bb			54.4577	136.1	36.1	381.6	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/07/10
 Time of Injection 0621
 Standard Number WXX100105-08CRI
 Data File EXP0105073a

HMX	113.6
RDX	119.2
135-TNB	109.8
13-DNB	119.9
Tetryl	88.3
Nitrobenzene	138.6
4A-26-DNT	111.4
2A-46-DNT	108.5
246-TNT	110.3
34-DNT(surr)	144.8
26-DNT	108.4
24-DNT	100.6
2-NT	100.0
4-NT	121.4
3-NT	120.0
PETN	136.1

Total 1850.9

Average 115.7

Time on 1/7/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105084a

Analysis Date: 07-JAN-10 11:46

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	630.675	105	
1,3-Dinitrobenzene-d4	500	533.721	107	
2,4,6-Trinitrotoluene	600	630.155	105	
2,4-Dinitrotoluene	600	610.814	102	
2,6-Dinitrotoluene	600	626.301	104	
2,6-Dinitrotoluene-d3	500	533.329	107	
2-Amino-4,6-dinitrotoluene	600	657.782	110	
3,4-Dinitrotoluene	300	312.099	104	
4-Amino-2,6-dinitrotoluene	600	628.459	105	
HMX	600	621.522	104	
Nitrobenzene	600	536.439	89	
PETN	600	529.822	88	
RDX	600	649.731	108	
Tetryl	600	508.349	85	
m-Dinitrobenzene	600	573.39	96	
m-Nitrotoluene	600	569.388	95	
o-Nitrotoluene	600	551.291	92	
p-Nitrotoluene	600	589.584	98	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp\PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Filename: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0105084a

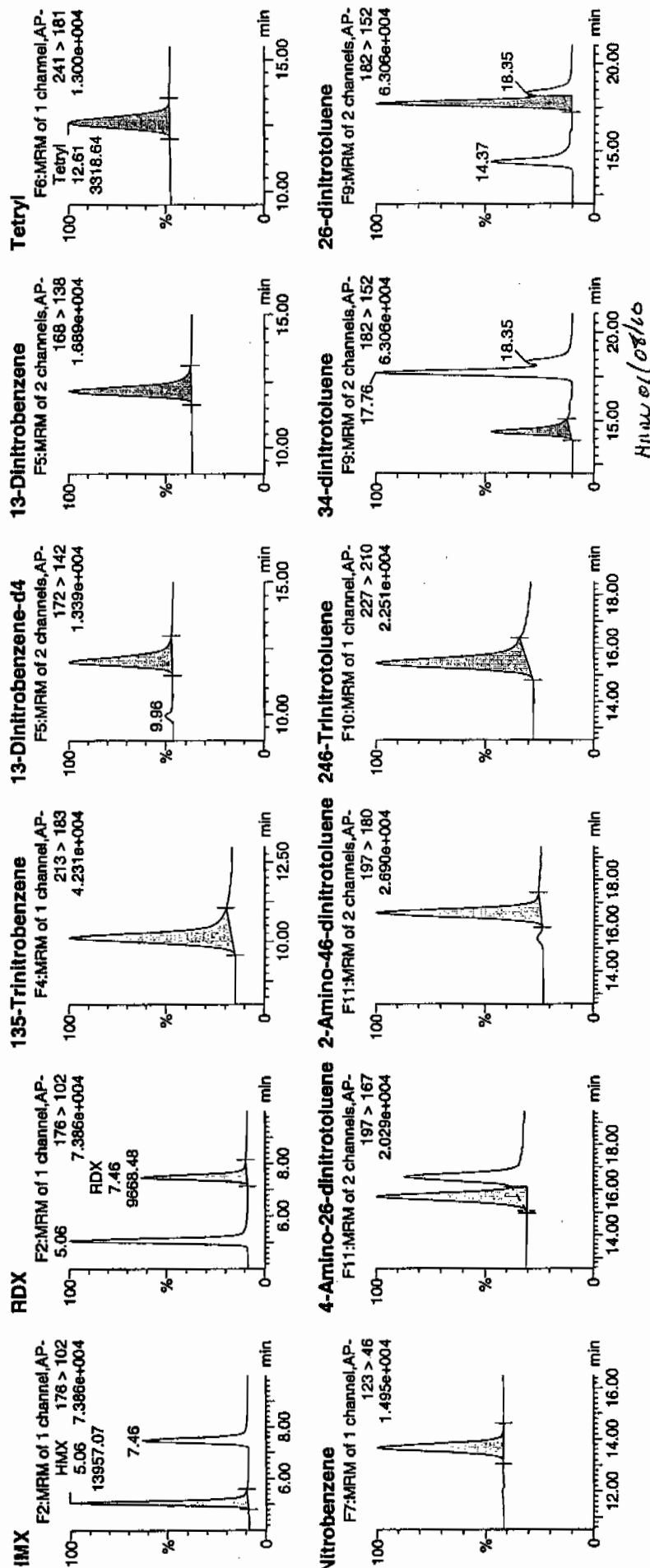
Date: 07-Jan-2010

Time: 11:46:15

ID: WXX100105-07CCV

Label: 1:1,B

1/10/10

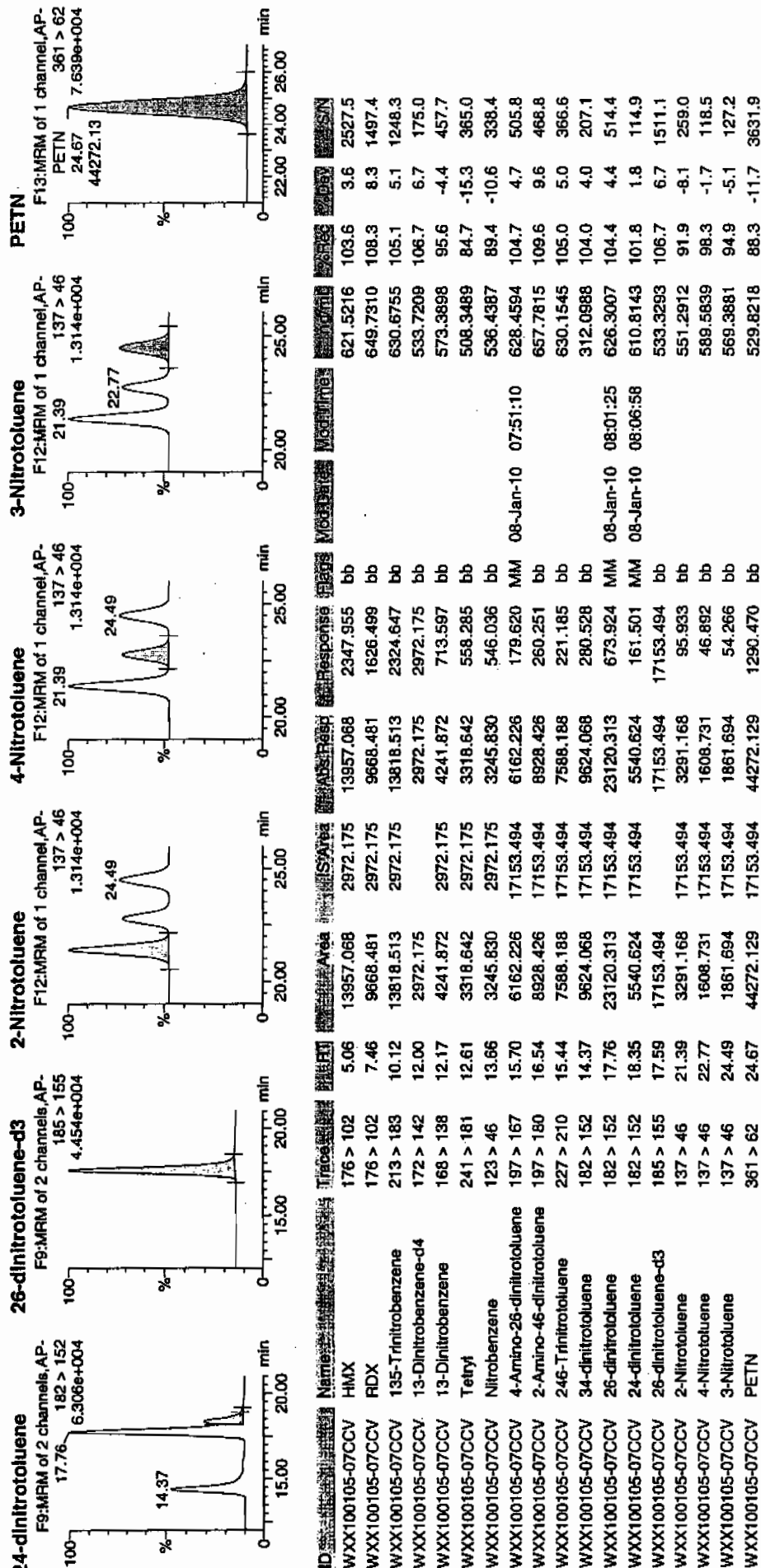


1/10/10

Printed: Fri Jan 08 08:09:43 2010, Page 22 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/07/10
 Time of Injection: 1146
 Standard Number: WXX100105-07CCV
 Data File: EXP0105084a

HMX	103.6
RDX	108.3
135-TNB	105.1
13-DNB	95.6
Tetryl	84.7
Nitrobenzene	89.4
4A-26-DNT	104.7
2A-46-DNT	109.6
246-TNT	105.0
34-DNT(surr)	104.0
26-DNT	104.4
24-DNT	101.8
2-NT	91.9
4-NT	98.3
3-NT	94.9
PETN	88.3

*WAT
1/10/10*

Total 1589.6

Average 99.4

WAT 01/08/10

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

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105086a

Analysis Date: 07-JAN-10 12:45

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	611.345	122	
2,4,6-Trinitrotoluene	40	51.014	128	
2,4-Dinitrotoluene	40	48.644	122	
2,6-Dinitrotoluene	40	44.062	110	
2,6-Dinitrotoluene-d3	500	546.377	109	
2-Amino-4,6-dinitrotoluene	40	42.357	106	
3,4-Dinitrotoluene	20	26.517	133	*
4-Amino-2,6-dinitrotoluene	40	47.796	119	
HMX	40	40.563	101	
Nitrobenzene	40	49.463	124	
PETN	40	50.097	125	
RDX	40	38.966	97	
Tetryl	40	24.846	62	*
m-Dinitrobenzene	40	36.52	91	
m-Nitrotoluene	40	55.279	138	*
o-Nitrotoluene	40	43.88	110	
p-Nitrotoluene	40	47.101	118	
1,3,5-Trinitrobenzene	40	34.64	87	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Filename: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0105086a

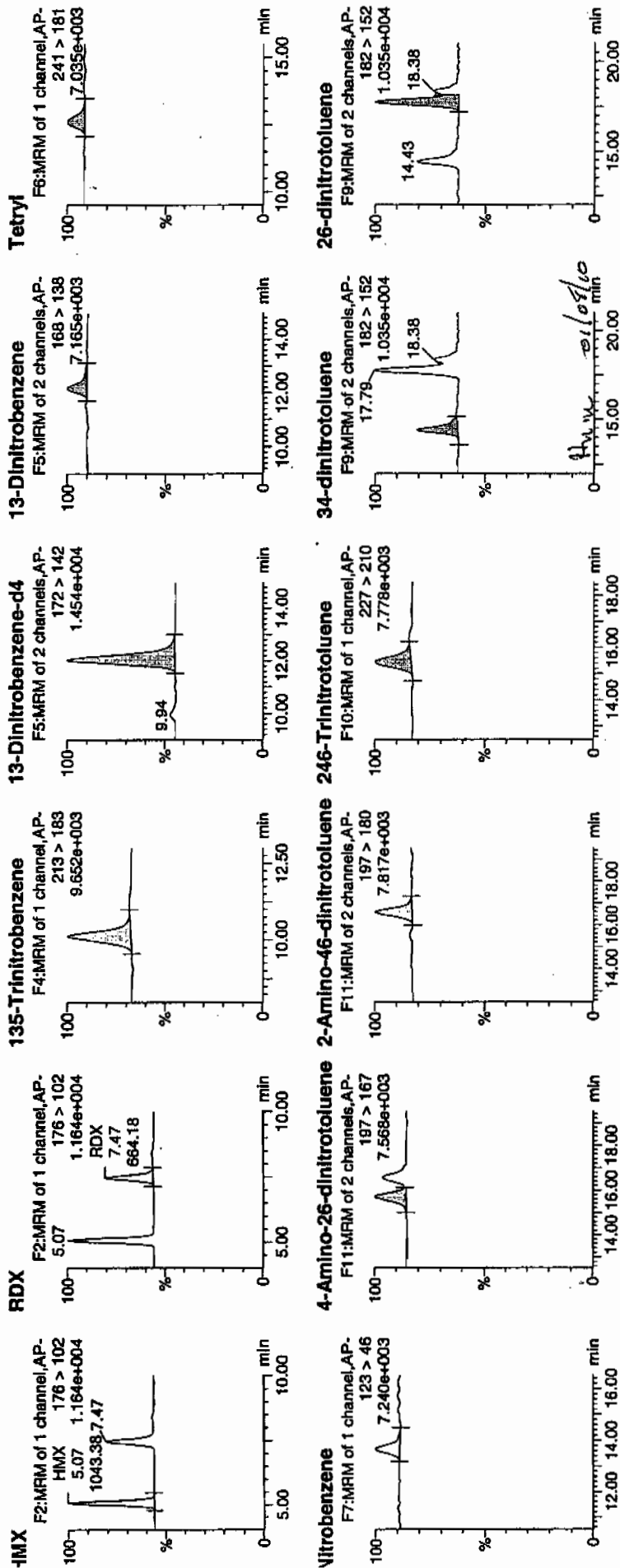
Date: 07-Jan-2010

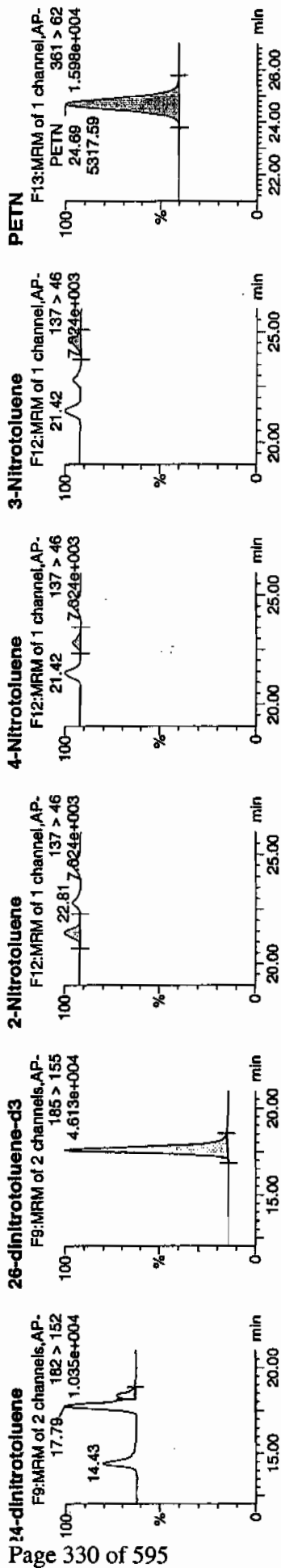
Time: 12:45:20

D: WXX100105-08CRI

File: 1:1,C

1/8/10





ID	Name	Trace	RT	Area	IS Area	Response	File	Mod	Time	Mod	Time	Mod	Time
WXX100105-08CRI	HMZ	176 > 102	5.07	1043.382	3404.445	153.238	bb			40.5633	101.4	1.4	231.1
WXX100105-08CRI	ROX	176 > 102	7.47	664.177	3404.445	97.546	bb			38.9661	97.4	-2.6	127.3
WXX100105-08CRI	135-Trinitrobenzene	213 > 183	10.12	1246.089	3404.445	183.009	bb			34.6404	86.6	-13.4	707.6
WXX100105-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	3404.445	3404.445	3404.445	bb			611.3447	122.3	22.3	217.6
WXX100105-08CRI	13-Dinitrobenzene	168 > 138	12.17	309.462	3404.445	45.450	bb			36.5197	91.3	-8.7	24.7
WXX100105-08CRI	Tetryl	241 > 181	12.63	317.311	3404.445	46.602	bb			24.8457	62.1	-37.9	28.5
WXX100105-08CRI	Nitrobenzene	123 > 46	13.67	342.815	3404.445	50.348	bb			49.4632	123.7	23.7	31.3
WXX100105-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	480.118	17573.148	13.661	MM	08-Jan-10	07:51:19	47.7959	119.5	19.5	41.2
WXX100105-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	589.004	17573.148	16.759	bb			42.3573	105.9	5.9	29.3
WXX100105-08CRI	246-Trinitrotoluene	227 > 210	15.45	629.325	17573.148	17.906	bb			51.0137	127.5	27.5	40.4
WXX100105-08CRI	34-dinitrotoluene	182 > 152	14.43	837.690	17573.148	23.834	bb			26.5167	132.6	32.6	38.7
WXX100105-08CRI	26-dinitrotoluene	182 > 152	17.79	1666.369	17573.148	47.412	MM	08-Jan-10	08:01:32	44.0619	110.2	10.2	79.7
WXX100105-08CRI	24-dinitrotoluene	182 > 152	18.38	452.039	17573.148	12.862	MM	08-Jan-10	08:06:49	48.6440	121.6	21.6	22.0
WXX100105-08CRI	26-dinitrotoluene-d3	185 > 155	17.60	17573.148	17573.148	17573.148	bb			546.3770	109.3	9.3	1390.6
WXX100105-08CRI	2-Nitrotoluene	137 > 46	21.42	268.369	17573.148	7.636	bb			43.8800	109.7	9.7	65.3
WXX100105-08CRI	4-Nitrotoluene	137 > 46	22.81	131.664	17573.148	3.746	bb			47.1012	117.8	17.8	33.0
WXX100105-08CRI	3-Nitrotoluene	137 > 46	24.57	185.165	17573.148	5.268	bb			55.2792	138.2	38.2	38.9
WXX100105-08CRI	PETN	361 > 62	24.69	5317.590	17573.148	151.299	bb			50.0966	125.2	25.2	368.1

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/07/10
 Time of Injection 1245
 Standard Number WXX100105-08CRI
 Data File EXP0105086a

HMX	101.4
RDX	97.4
135-TNB	86.6
13-DNB	91.3
Tetryl	62.1
Nitrobenzene	123.7
4A-26-DNT	119.5
2A-46-DNT	105.9
246-TNT	127.5
34-DNT(surr)	132.6
26-DNT	110.2
24-DNT	121.6
2-NT	109.7
4-NT	117.8
3-NT	138.2
PETN	125.2

*WXX
1/8/10*

Total 1770.7

Average 110.7

WXX 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105093a

Analysis Date: 07-JAN-10 16:29

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	504.834	101	
2-Amino-4,6-dinitrotoluene	600	718.322	120	
3,4-Dinitrotoluene	300	347.892	116	
4-Amino-2,6-dinitrotoluene	600	661.652	110	
HMX	600	554.588	92	
Nitrobenzene	600	520.766	87	
PETN	600	463.877	77	*
RDX	600	580.36	97	
Tetryl	600	476.046	79	*
m-Dinitrobenzene	600	555.057	93	
m-Nitrotoluene	600	609.97	102	
o-Nitrotoluene	600	594.575	99	
p-Nitrotoluene	600	640.447	107	
1,3,5-Trinitrobenzene	600	558.883	93	
1,3-Dinitrobenzene-d4	500	561.058	112	
2,4,6-Trinitrotoluene	600	668.825	111	
2,4-Dinitrotoluene	600	623.498	104	
2,6-Dinitrotoluene	600	621.598	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

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

Printed: Fri Jan 08 08:09:43 2010, Page 39 of 97

Dataset: C:\MASSLYNX\New_Exp.PRO\1010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

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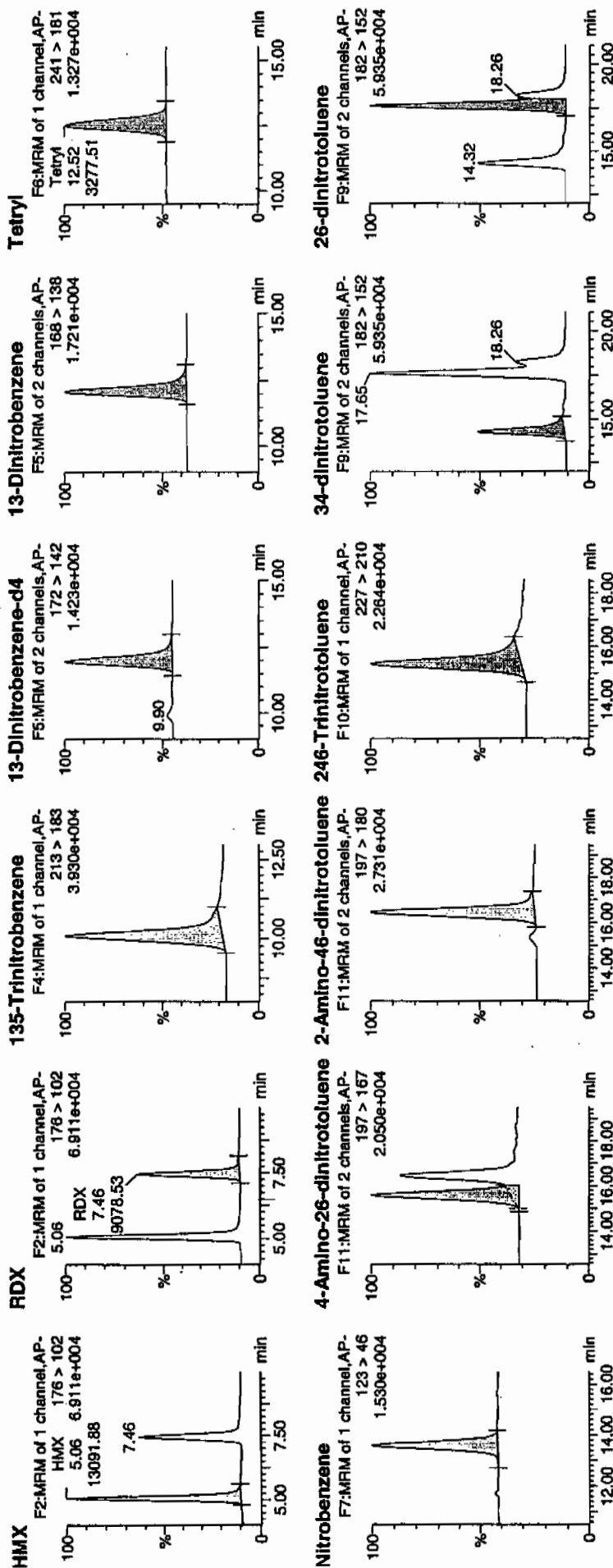
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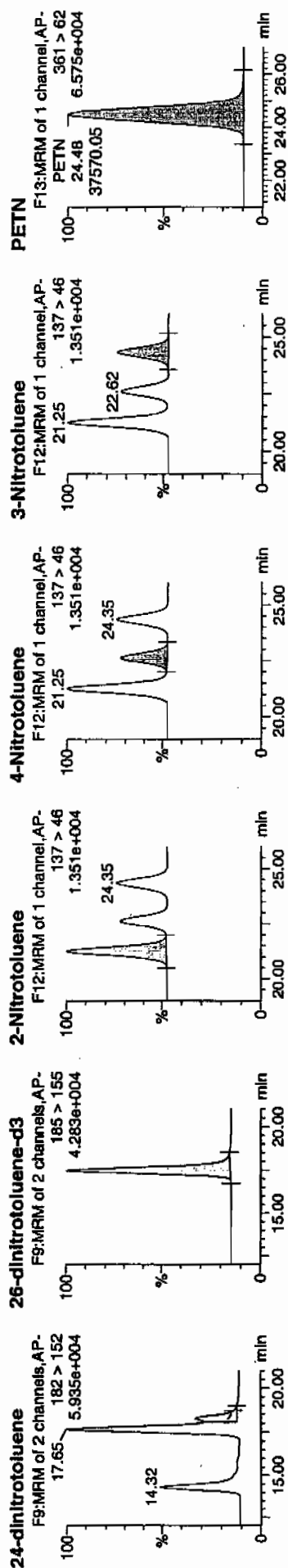
ID: WXX100105-07CCV

Vial: 1:1,B

1/10
1/10



1/10
1/10



ID	Name	Trace	FU	Area	%S Area	AbsResp	Response	Pkgs	Molecular Weight	Endpoint	Exptl	Calcd
WXX100105-07CCV	HMX	176 > 102	5.06	13091.881	3124.411	13091.881	2095.096	db		554.5878	92.4	-7.6
WXX100105-07CCV	RDX	176 > 102	7.46	9078.532	3124.411	9078.532	1452.839	bb		580.3597	96.7	-3.3
WXX100105-07CCV	135-Trinitrobenzene	213 > 183	10.09	12739.028	3124.411	12739.029	2038.629	bb		558.8827	93.1	-6.9
WXX100105-07CCV	13-Dinitrobenzene-d4	172 > 142	11.97	3124.411		3124.411		bb		561.0583	112.2	12.2
WXX100105-07CCV	13-Dinitrobenzene	168 > 138	12.10	4316.573	3124.411	4316.573	690.782	bb		555.0572	92.5	-7.5
WXX100105-07CCV	Tetryl	241 > 181	12.52	3277.513	3124.411	3277.513	524.501	bb		476.0457	79.3	-20.7
WXX100105-07CCV	Nitrobenzene	123 > 46	13.61	3312.394	3124.411	3312.394	530.083	bb		520.7659	86.8	-13.2
WXX100105-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.61	6141.063	16237.009	6141.063	189.107	MM	08-Jan-10	07:51:48		
WXX100105-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.45	9229.242	16237.009	9229.242	284.204	bb		718.3223	119.7	19.7
WXX100105-07CCV	246-Trinitrotoluene	227 > 210	15.37	7623.548	16237.009	7623.548	234.758	bb		668.8253	111.5	11.5
WXX100105-07CCV	34-dinitrotoluene	182 > 152	14.32	10154.637	16237.009	10154.637	312.700	bb		347.8920	116.0	16.0
WXX100105-07CCV	26-dinitrotoluene	182 > 152	17.65	21720.715	16237.009	21720.715	668.864	MM	08-Jan-10	08:02:28		
WXX100105-07CCV	24-dinitrotoluene	182 > 152	18.26	5353.502	16237.009	5353.502	164.855	MM	08-Jan-10	08:06:02		
WXX100105-07CCV	26-dinitrotoluene-d3	185 > 155	17.48	16237.009		16237.009		bb		504.8343	101.0	1.0
WXX100105-07CCV	2-Nitrotoluene	137 > 46	21.25	3359.920	16237.009	3359.920	103.465	bb		594.5748	89.1	-0.9
WXX100105-07CCV	4-Nitrotoluene	137 > 46	22.62	1654.149	16237.009	1654.149	50.938	bb		640.4473	106.7	6.7
WXX100105-07CCV	3-Nitrotoluene	137 > 46	24.35	1887.825	16237.009	1887.825	58.133	bb		609.9698	101.7	1.7
WXX100105-07CCV	PETN	361 > 62	24.48	37570.051	16237.009	37570.051	1156.926	bb		463.8769	77.3	-22.7

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/07/10
 Time of Injection: 1629
 Standard Number: WXX100105-07CCV
 Data File: EXP0105093a

HMX	92.4
RDX	96.7
135-TNB	93.1
13-DNB	92.5
Tetryl	79.3
Nitrobenzene	86.8
4A-26-DNT	110.3
2A-46-DNT	119.7
246-TNT	111.5
34-DNT(surr)	116.0
26-DNT	103.6
24-DNT	103.9
2-NT	99.1
4-NT	106.7
3-NT	101.7
PETN	77.3

Handwritten: 1/8/10

Total 1590.6

Average 99.4

Handwritten: 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105095a

Analysis Date: 07-JAN-10 17:28

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
RDX	40	43.526	109	
Tetryl	40	19.2	48	*
m-Dinitrobenzene	40	39.586	99	
m-Nitrotoluene	40	40.419	101	
o-Nitrotoluene	40	41.797	104	
p-Nitrotoluene	40	49.106	123	
PETN	40	41.165	103	
1,3,5-Trinitrobenzene	40	44.012	110	
1,3-Dinitrobenzene-d4	500	537.59	108	
2,4,6-Trinitrotoluene	40	46.089	115	
2,4-Dinitrotoluene	40	37.788	94	
2,6-Dinitrotoluene	40	44.674	112	
2,6-Dinitrotoluene-d3	500	512.817	103	
2-Amino-4,6-dinitrotoluene	40	43.424	109	
3,4-Dinitrotoluene	20	20.139	101	
4-Amino-2,6-dinitrotoluene	40	42.271	106	
HMX	40	44.319	111	
Nitrobenzene	40	36.092	90	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 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\10510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0105095a

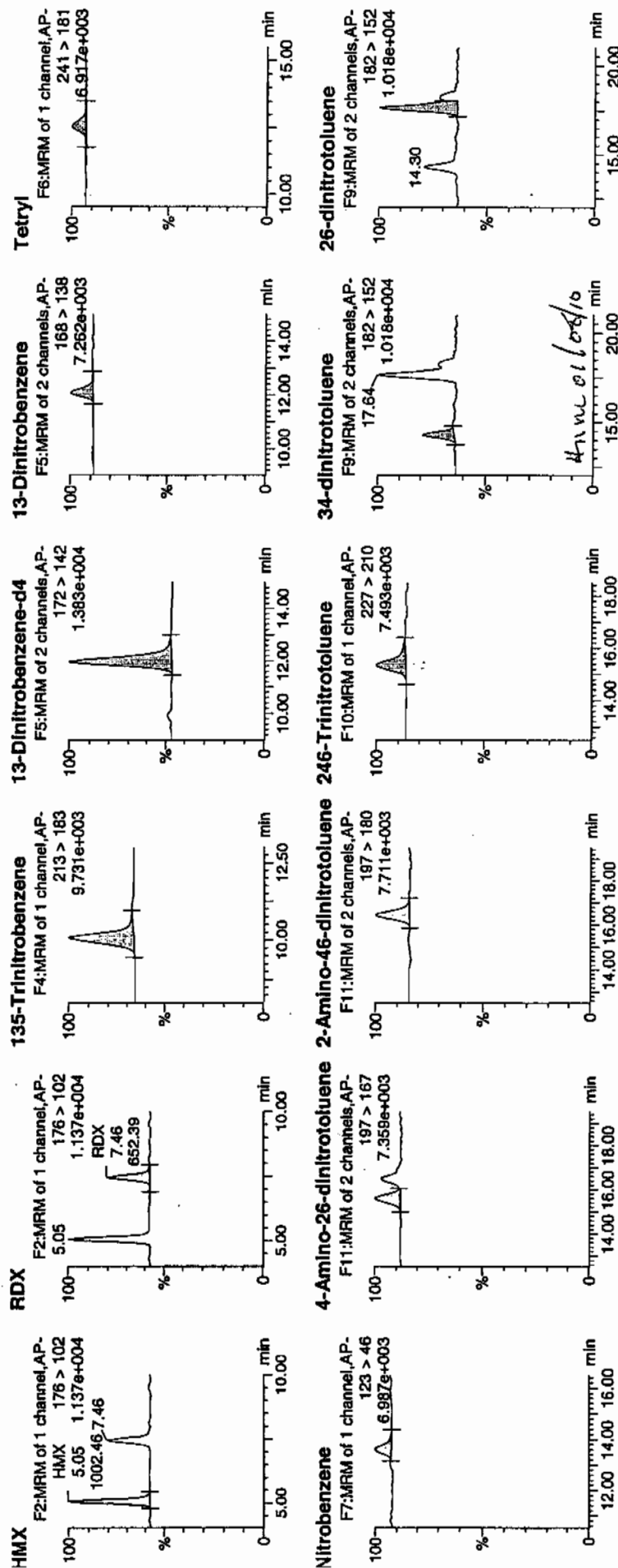
Date: 07-Jan-2010

Time: 17:28:36

ID: WXX100105-08CRI

Vial: 1:1,C

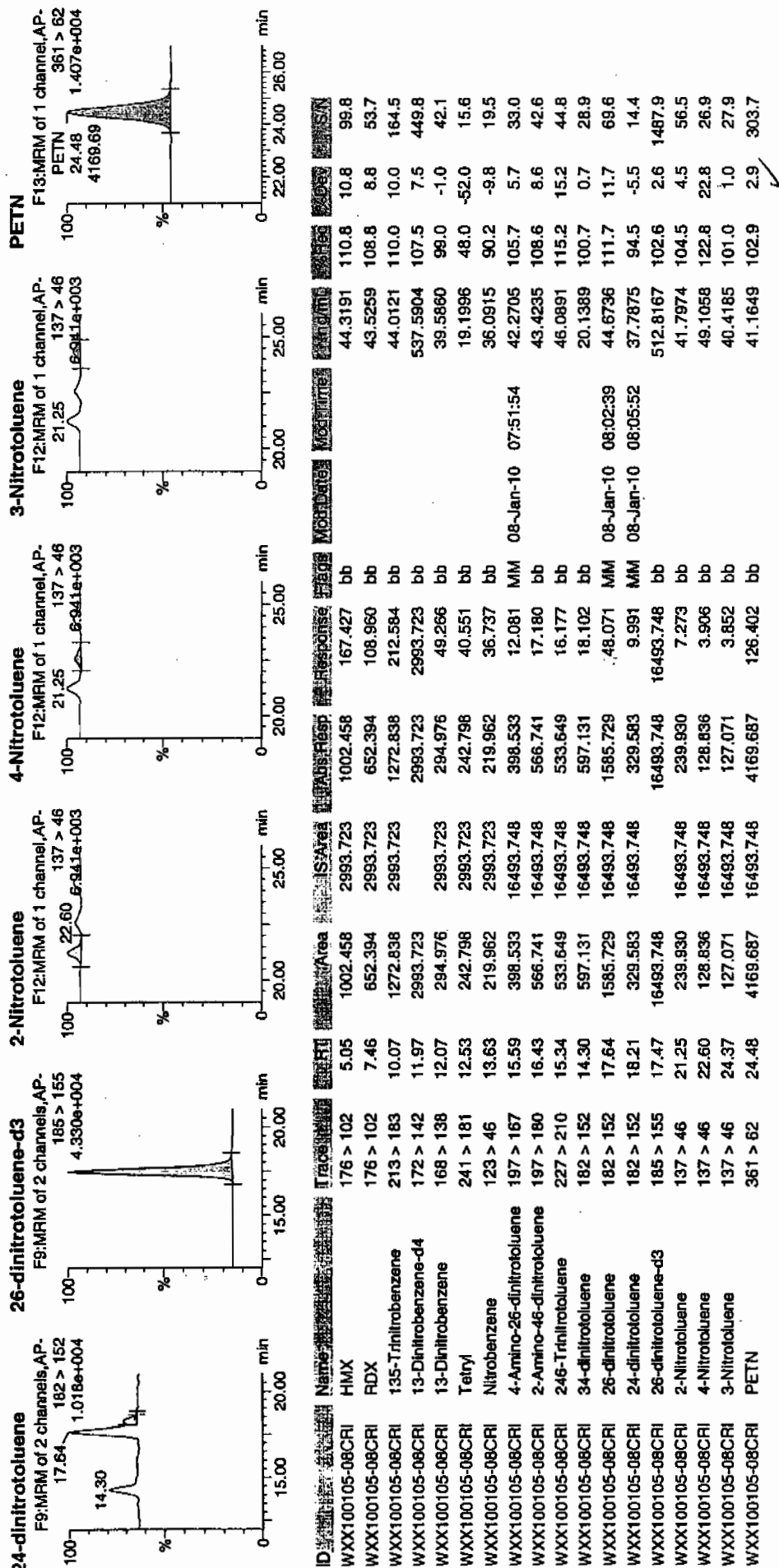
1/10/10



Printed: Fri Jan 08 08:09:43 2010, Page 44 of 97

Quantify Sample Report
3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/07/10
 Time of Injection 1728
 Standard Number WXX100105-08CRI
 Data File EXP0105095a

HMX	110.8
RDX	108.8
135-TNB	110.0
13-DNB	99.0
Tetryl	48.0
Nitrobenzene	90.2
4A-26-DNT	105.7
2A-46-DNT	108.6
246-TNT	115.2
34-DNT(surr)	100.7
26-DNT	111.7
24-DNT	94.5
2-NT	104.5
4-NT	122.8
3-NT	101.0
PETN	102.9

Handwritten: 1/8/10

Total 1634.4

Average 102.2

Handwritten: 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105106a

Analysis Date: 07-JAN-10 22:53

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	595.555	99	
2,6-Dinitrotoluene	600	626.541	104	
2,6-Dinitrotoluene-d3	500	567.774	114	
2-Amino-4,6-dinitrotoluene	600	664.644	111	
3,4-Dinitrotoluene	300	317.36	106	
4-Amino-2,6-dinitrotoluene	600	647.77	108	
HMX	600	550.035	92	
Nitrobenzene	600	531.461	89	
PETN	600	412.457	69	*
RDX	600	712.859	119	
Tetryl	600	529.049	88	
m-Dinitrobenzene	600	595.632	99	
m-Nitrotoluene	600	560.693	93	
o-Nitrotoluene	600	547.829	91	
p-Nitrotoluene	600	615.665	103	
1,3,5-Trinitrobenzene	600	567.209	95	
1,3-Dinitrobenzene-d4	500	595.633	119	
2,4,6-Trinitrotoluene	600	628.045	105	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Fri Jan 08 08:09:43 2010, Page 65 of 97

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

Dataset: C:\MASSLYNX\New_Exp\PROV010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP\PROV010510expA2.qld\EXP0105106a

Date: 07-Jan-2010

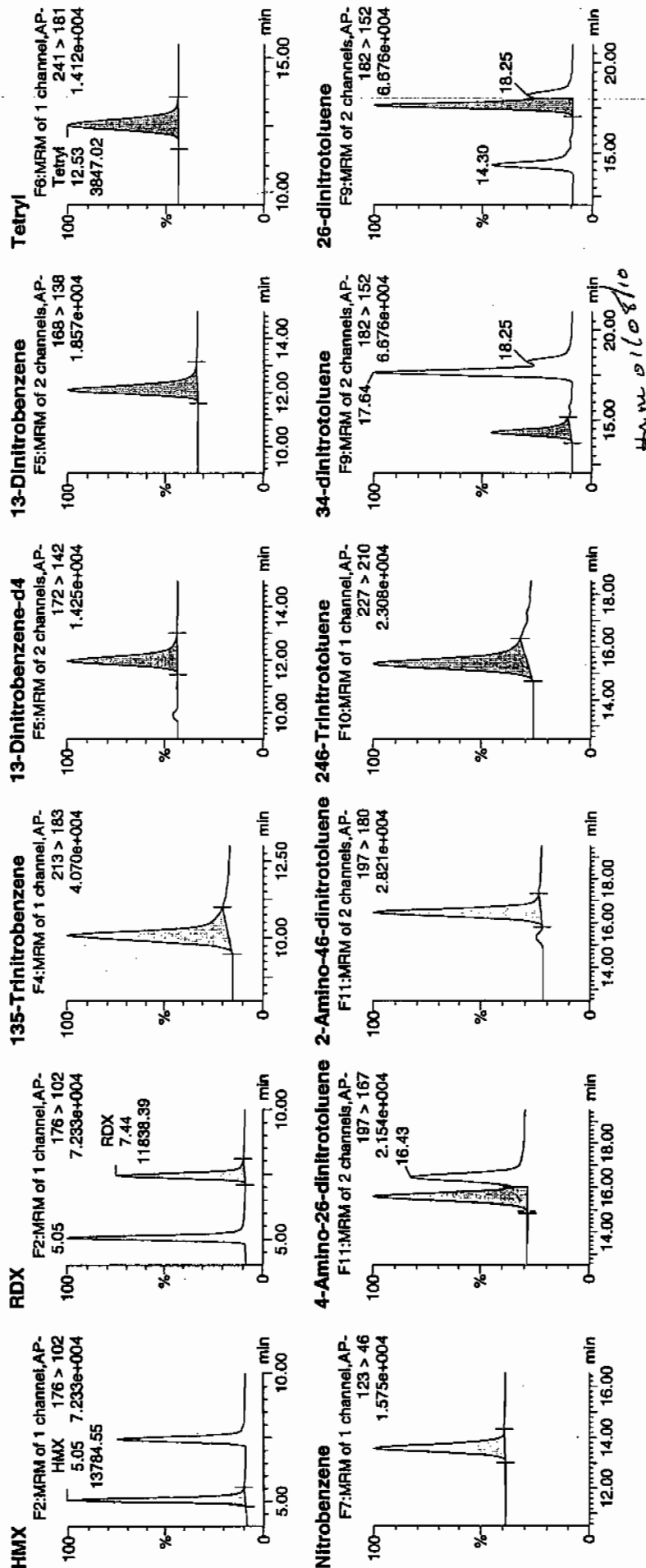
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ID: WXX100105-07CCV

Vial: 1:1,B

1/10/10

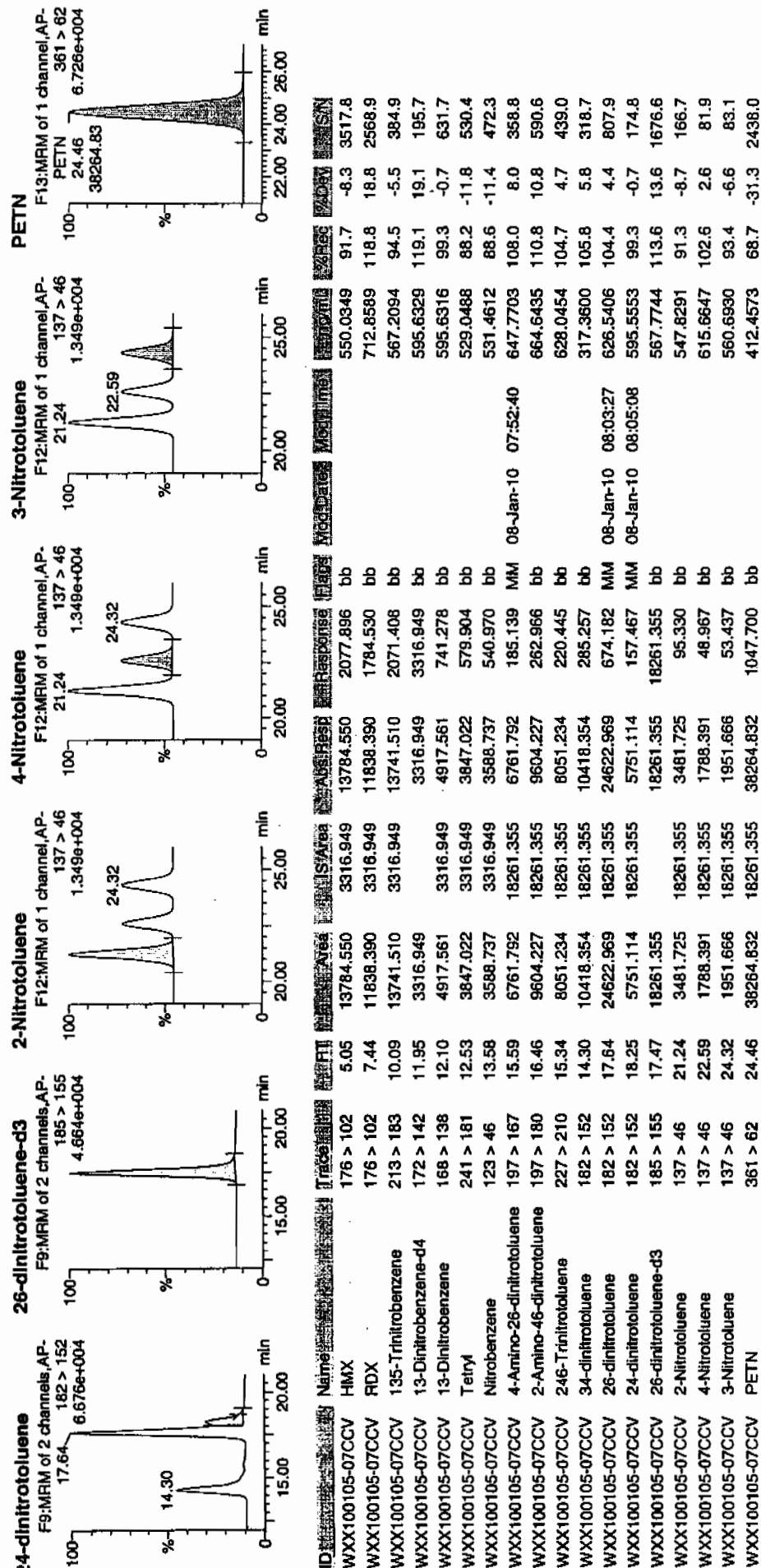
Page 341 of 595



Printed: Fri Jan 08 08:09:43 2010, Page 66 of 97

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

Dataset: C:\MASSLYNX\New_Exp_PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/07/10
 Time of Injection: 2253
 Standard Number: WXX100105-07CCV
 Data File: EXP0105106a

HMX	91.7
RDX	118.8
135-TNB	94.5
13-DNB	99.3
Tetryl	88.2
Nitrobenzene	88.6
4A-26-DNT	108.0
2A-46-DNT	110.8
246-TNT	104.7
34-DNT(surr)	105.8
26-DNT	104.4
24-DNT	99.3
2-NT	91.3
4-NT	102.6
3-NT	93.4
PETN	68.7

Total 1570.1

Average 98.1

*ndt
1/8/10*

4711K 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105108a

Analysis Date: 07-JAN-10 23:52

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	38.142	95	
1,3-Dinitrobenzene-d4	500	553.397	111	
2,4,6-Trinitrotoluene	40	45.997	115	
2,4-Dinitrotoluene	40	45.46	114	
2,6-Dinitrotoluene	40	42.879	107	
2,6-Dinitrotoluene-d3	500	545.989	109	
2-Amino-4,6-dinitrotoluene	40	42.796	107	
3,4-Dinitrotoluene	20	21.604	108	
4-Amino-2,6-dinitrotoluene	40	47.272	118	
HMX	40	41.558	104	
Nitrobenzene	40	35.126	88	
PETN	40	38.659	97	
RDX	40	41.865	105	
Tetryl	40	31.156	78	
m-Dinitrobenzene	40	40.758	102	
m-Nitrotoluene	40	42.116	105	
o-Nitrotoluene	40	37.641	94	
p-Nitrotoluene	40	43.216	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\PRO10510510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP\PRO10510510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Date: 07-Jan-2010

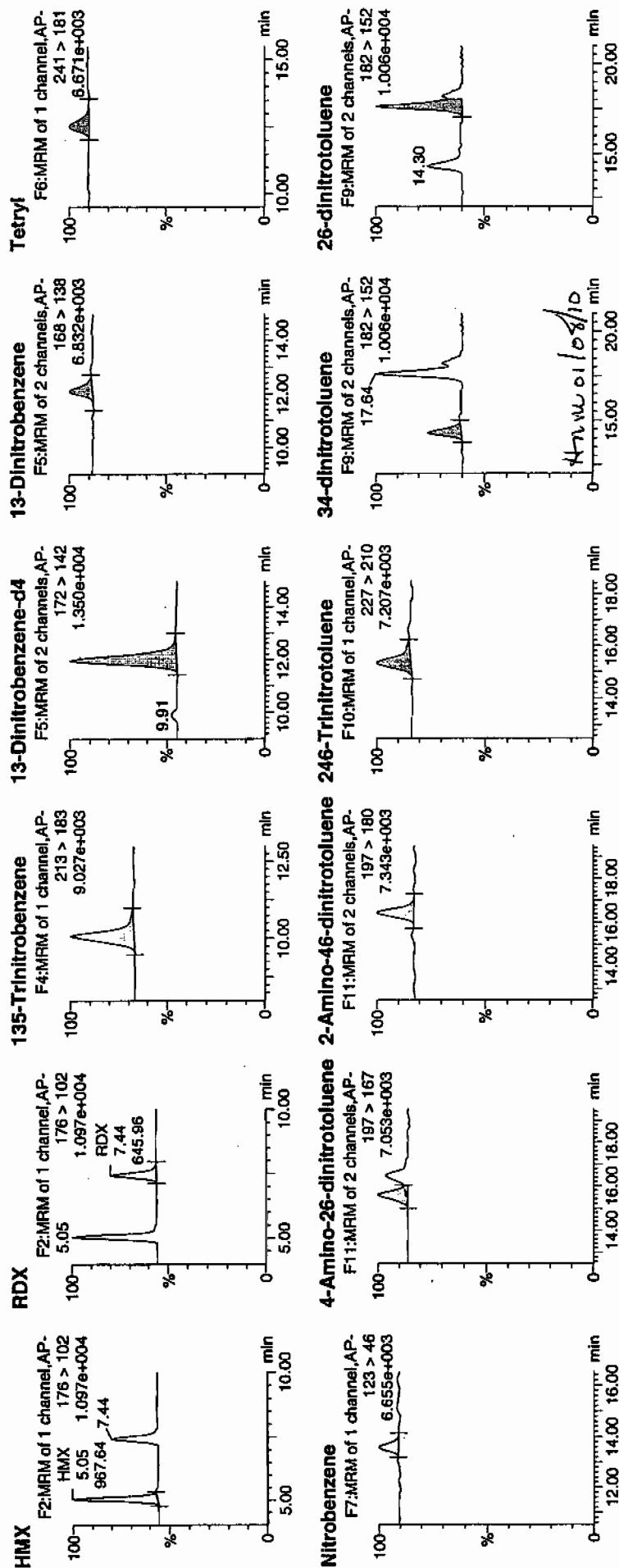
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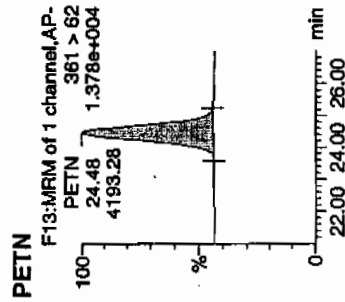
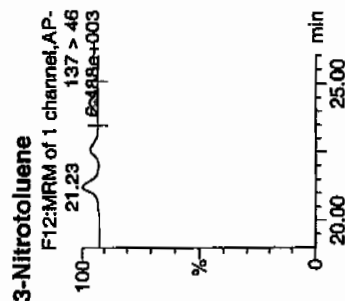
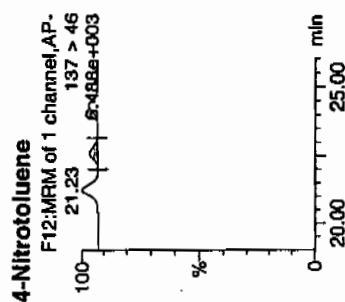
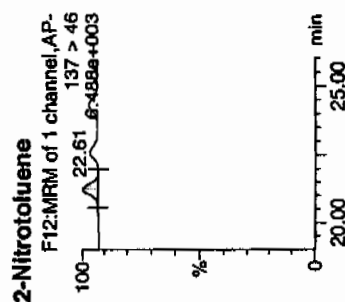
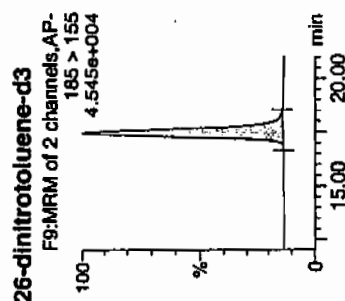
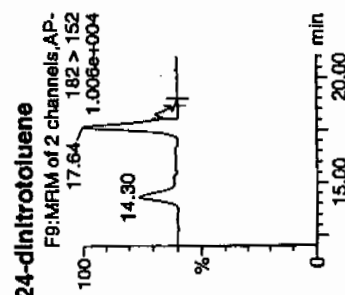
ID: WXX100105-08CRI

Vial: 1:1,C

1/8/10

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ID	Name	Trace MS/MS	Purity	Peak Area	Peak S/V Area	Abs. Resp	Response	Height	Molecular Weight	Retention Time	Log P	Boiling Point		
WXX100105-08C1	HMX	176 > 102	5.05	967.637	3081.749	967.637	156.995	bb		41.5577	103.9	3.9	238.9	
WXX100105-08C1	RDX	176 > 102	7.44	645.956	3081.749	645.956	104.803	bb		41.8654	104.7	4.7	129.4	
WXX100105-08C1	135-Trinitrobenzene	213 > 183	10.09	1195.988	3081.749	1195.988	194.044	bb		38.1419	95.4	-4.6	196.1	
WXX100105-08C1	13-Dinitrobenzene-d4	172 > 142	11.97	3081.749		3081.749		bb		553.3974	110.7	10.7	160.7	
WXX100105-08C1	13-Dinitrobenzene	168 > 138	12.10	312.638	3081.749	312.638	50.724	bb		40.7579	101.9	1.9	36.9	
WXX100105-08C1	Tetryl	241 > 181	12.53	328.905	3081.749	328.905	53.363	bb		31.1558	77.9	-22.1	24.1	
WXX100105-08C1	Nitrobenzene	123 > 46	13.58	220.370	3081.749	220.370	35.754	bb		35.1256	87.8	-12.2	18.1	
WXX100105-08C1	4-Amino-2,6-dinitrotoluene	197 > 167	15.62	474.519	17560.678	474.519	13.511	MM	08-Jan-10	07:52:51	118.2	18.2	38.4	
WXX100105-08C1	2-Amino-4,6-dinitrotoluene	197 > 180	16.46	594.685	17560.678	594.685	16.932	bb		42.7982	107.0	7.0	57.6	
WXX100105-08C1	2,4,6-Trinitrotoluene	227 > 210	15.34	567.031	17560.678	567.031	16.145	bb		45.9967	115.0	15.0	49.3	
WXX100105-08C1	3,4-dinitrotoluene	182 > 152	14.30	682.004	17560.678	682.004	19.418	bb		21.6039	108.0	8.0	19.0	
WXX100105-08C1	2,6-dinitrotoluene	182 > 152	17.64	1620.491	17560.678	1620.491	46.140	MM	08-Jan-10	08:03:38	42.8792	107.2	49.3	
WXX100105-08C1	2,4-dinitrotoluene	182 > 152	18.21	422.151	17560.678	422.151	12.020	MM	08-Jan-10	08:04:57	45.4600	113.7	13.7	11.8
WXX100105-08C1	2,6-dinitrotoluene-d3	185 > 155	17.47	17560.678		17560.678		bb		545.9893	109.2	9.2	1756.9	
WXX100105-08C1	2-Nitrotoluene	137 > 46	21.23	230.047	17560.678	230.047	6.550	bb		37.6408	94.1	-5.9	18.4	
WXX100105-08C1	4-Nitrotoluene	137 > 46	22.61	120.717	17560.678	120.717	3.437	bb		43.2157	108.0	8.0	9.4	
WXX100105-08C1	3-Nitrotoluene	137 > 46	24.34	140.974	17560.678	140.974	4.014	bb		42.1163	105.3	5.3	10.3	
WXX100105-08C1	PETN	361 > 62	24.48	4193.276	17560.678	4193.276	119.394	bb		38.6594	96.6	-3.4	59.3	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/07/10
 Time of Injection 2352
 Standard Number WXX100105-08CRI
 Data File EXP0105108a

HMX	103.9
RDX	104.7
135-TNB	95.4
13-DNB	101.9
Tetryl	77.9
Nitrobenzene	87.8
4A-26-DNT	118.2
2A-46-DNT	107.0
246-TNT	115.0
34-DNT(surr)	108.0
26-DNT	107.2
24-DNT	113.7
2-NT	94.1
4-NT	108.0
3-NT	105.3
PETN	96.6

*WTT
1/10/10*

Total 1644.7

Average 102.8

WTT 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0105119a

Analysis Date: 08-JAN-10 05:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Tetryl	600	594.766	99	
m-Dinitrobenzene	600	591.279	99	
m-Nitrotoluene	600	571.536	95	
o-Nitrotoluene	600	533.028	89	
p-Nitrotoluene	600	639.673	107	
1,3,5-Trinitrobenzene	600	645.585	108	
1,3-Dinitrobenzene-d4	500	535.819	107	
2,4,6-Trinitrotoluene	600	626.512	104	
2,4-Dinitrotoluene	600	584.158	97	
2,6-Dinitrotoluene	600	612.717	102	
2,6-Dinitrotoluene-d3	500	609.062	122	*
2-Amino-4,6-dinitrotoluene	600	697.936	116	
3,4-Dinitrotoluene	300	319.894	107	
4-Amino-2,6-dinitrotoluene	600	645.605	108	
HMX	600	668.819	111	
Nitrobenzene	600	605.056	101	
PETN	600	380.511	63	*
RDX	600	691.768	115	

Recovery Limits:

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

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Fri Jan 08 08:09:43 2010, Page 91 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0105119a

Date: 08-Jan-2010

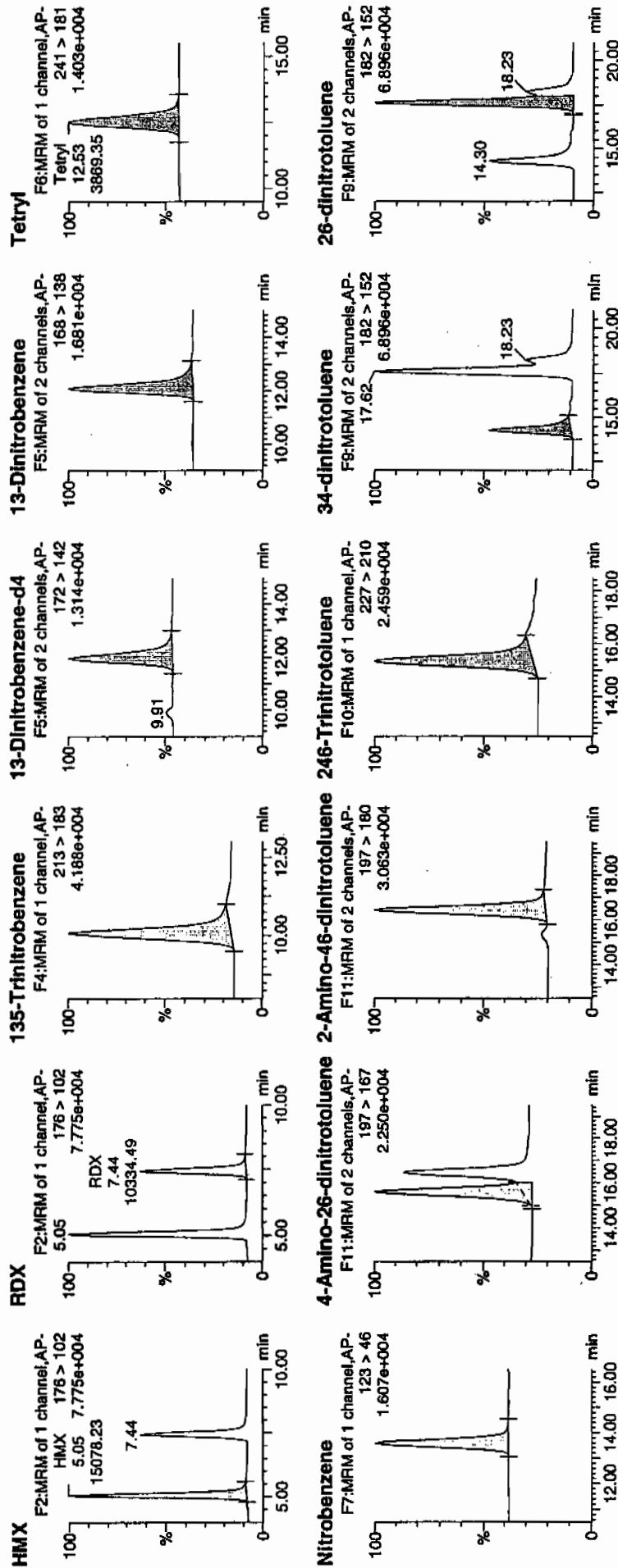
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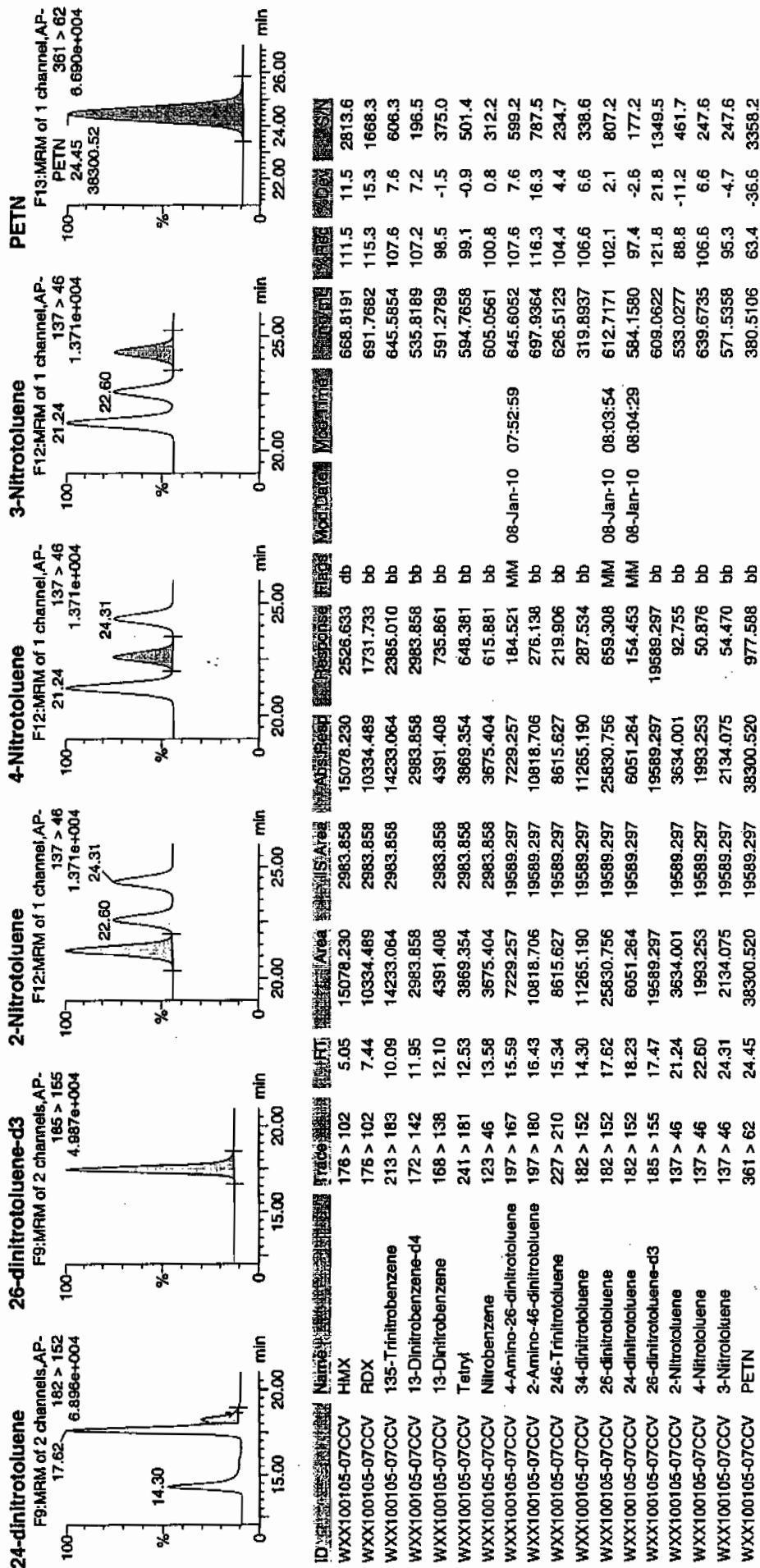
ID: WXX100105-07CCV

Vial: 1:1,B

1/19/10

Page 349 of 595





GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/08/10
 Time of Injection: 0516
 Standard Number: WXX100105-07CCV
 Data File: EXP0105119a

HMX	111.5
RDX	115.3
135-TNB	107.6
13-DNB	98.5
Tetryl	99.1
Nitrobenzene	100.8
4A-26-DNT	107.6
2A-46-DNT	116.3
246-TNT	104.4
34-DNT(surr)	106.6
26-DNT	102.1
24-DNT	97.4
2-NT	88.8
4-NT	106.6
3-NT	95.3
PETN	63.4

*MTT
1/8/10*

Total 1621.3

Average 101.3

Handwritten: 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0105121a

Analysis Date: 08-JAN-10 06:15

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	40	40.907	102	
2,6-Dinitrotoluene	40	40.995	102	
2,6-Dinitrotoluene-d3	500	619.883	124	
2-Amino-4,6-dinitrotoluene	40	35.713	89	
3,4-Dinitrotoluene	20	18.421	92	
4-Amino-2,6-dinitrotoluene	40	35.692	89	
HMX	40	46.845	117	
Nitrobenzene	40	32.536	81	
PETN	40	34.333	86	
RDX	40	42.59	106	
Tetryl	40	21.176	53	*
m-Dinitrobenzene	40	31.777	79	
m-Nitrotoluene	40	51.988	130	
o-Nitrotoluene	40	39.172	98	
p-Nitrotoluene	40	40.501	101	
1,3,5-Trinitrobenzene	40	27.817	70	*
1,3-Dinitrobenzene-d4	500	642.777	129	
2,4,6-Trinitrotoluene	40	31.047	78	

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: Fri Jan 08 08:09:43 2010, Page 95 of 97

Quantify Sample Report
3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

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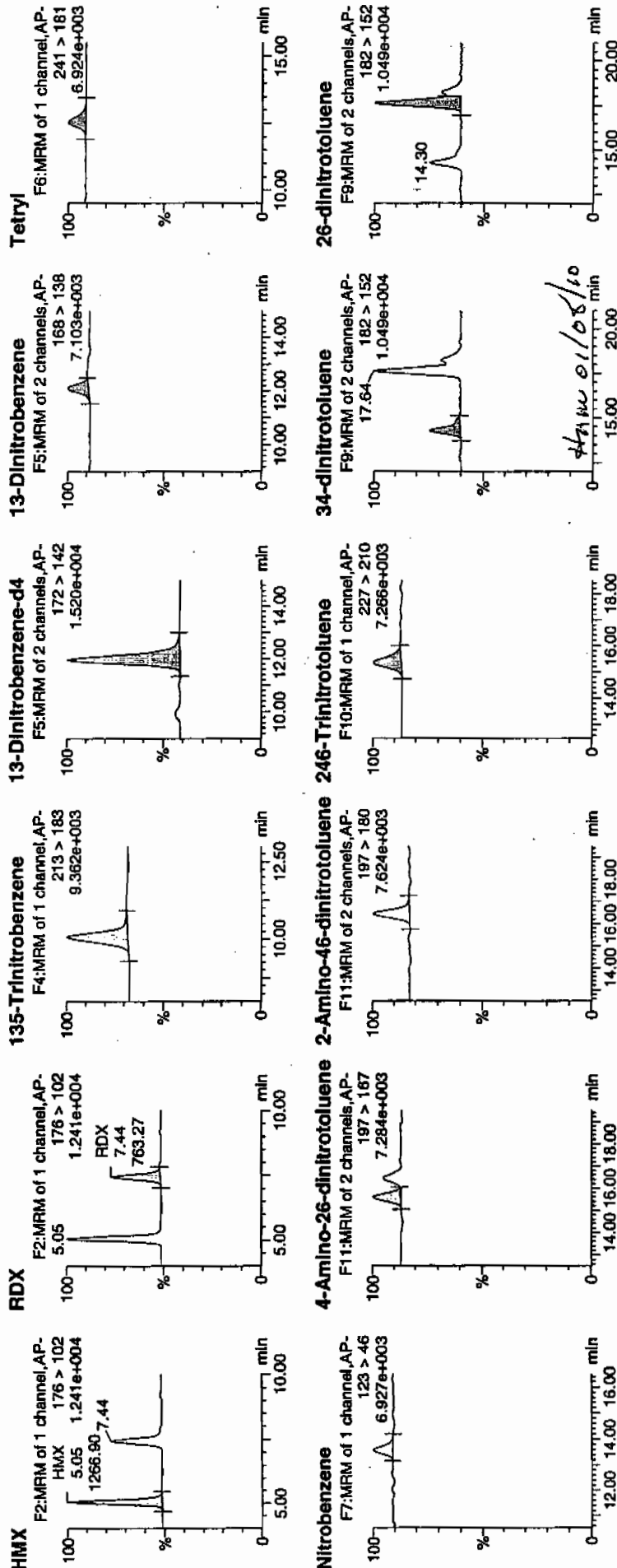
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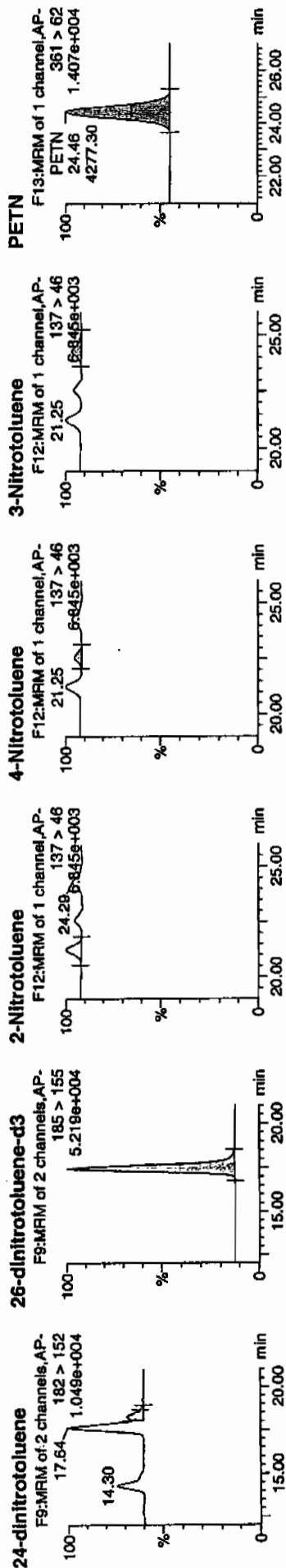
ID: WXX100105-08CRI

Vial: 1:1,C

RT
μs
1/3/10



Dataset: C:\MASSLYN\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



ID	Name	Trace	RT	Area	Area	Area	Response	Flags	ModDate	ModTime	Count	Rec	Vol	SN
WX100105-08C1	HM	176 > 102	5.05	1266.901	3579.484	1266.901	176.967	bb			46.8445	117.1	17.1	165.6
WX100105-08C1	RD	176 > 102	7.44	763.266	3579.484	763.266	106.617	bb			42.5698	106.5	6.5	85.7
WX100105-08C1	135-Trinitrobenzene	213 > 183	10.07	1156.594	3579.484	1156.594	161.559	bb			27.8172	69.5	-30.5	522.4
WX100105-08C1	13-Dinitrobenzene-d4	172 > 142	11.95	3579.484	3579.484	3579.484	3579.484	bb			642.7769	128.6	28.6	490.2
WX100105-08C1	13-Dinitrobenzene	168 > 138	12.10	283.121	3579.484	283.121	39.548	bb			31.7774	79.4	-20.6	31.5
WX100105-08C1	Tet	241 > 181	12.53	305.472	3579.484	305.472	42.670	bb			21.1762	52.9	-47.1	36.9
WX100105-08C1	Nitrobenzene	123 > 46	13.58	237.089	3579.484	237.089	33.118	bb			32.5357	81.3	-18.7	26.2
WX100105-08C1	4-Amino-26-dinitrotoluene	197 > 167	15.59	406.763	19937.336	406.763	10.201	MM	08-Jan-10 07:53:18		35.6916	89.2	-10.8	29.5
WX100105-08C1	2-Amino-46-dinitrotoluene	197 > 180	16.43	563.429	19937.336	563.429	14.130	bb			35.7134	89.3	-10.7	58.8
WX100105-08C1	246-Trinitrotoluene	227 > 210	15.34	434.531	19937.336	434.531	10.897	bb			31.0467	77.6	-22.4	55.0
WX100105-08C1	34-dinitrotoluene	182 > 152	14.30	660.242	19937.336	660.242	16.556	bb			18.4214	92.1	-7.9	44.3
WX100105-08C1	26-dinitrotoluene	182 > 152	17.64	1758.967	19937.336	1758.967	44.112	MM	08-Jan-10 08:04:04		40.9951	102.5	2.5	126.5
WX100105-08C1	24-dinitrotoluene	182 > 152	18.21	431.287	19937.336	431.287	10.816	MM	08-Jan-10 08:04:16		40.9074	102.3	2.3	28.6
WX100105-08C1	26-dinitrotoluene-d3	185 > 155	17.44	19937.336	19937.336	19937.336	19937.336	bb			619.8833	124.0	24.0	1936.4
WX100105-08C1	2-Nitrotoluene	137 > 46	21.25	271.804	19937.336	271.804	6.816	bb			39.1717	97.9	-2.1	64.8
WX100105-08C1	4-Nitrotoluene	137 > 46	22.58	128.445	19937.336	128.445	3.221	bb			40.5009	101.3	1.3	30.7
WX100105-08C1	3-Nitrotoluene	137 > 46	24.29	197.568	19937.336	197.568	4.955	bb			51.9879	130.0	30.0	39.0
WX100105-08C1	PETN	361 > 62	24.46	4277.298	19937.336	4277.298	107.269	bb			34.3333	85.8	-14.2	220.1

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/08/10
 Time of Injection 0615
 Standard Number WXX100105-08CRI
 Data File EXP0105121a

HMX	117.1
RDX	106.5
135-TNB	69.5
13-DNB	79.4
Tetryl	52.9
Nitrobenzene	81.3
4A-26-DNT	89.2
2A-46-DNT	89.3
246-TNT	77.6
34-DNT(surr)	92.1
26-DNT	102.5
24-DNT	102.3
2-NT	97.9
4-NT	101.3
3-NT	130.0
PETN	85.8

11/8/10

Total 1474.7

Average 92.2

done 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108012a

Analysis Date: 08-JAN-10 22:39

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Tetryl	40	33.119	83	
m-Dinitrobenzene	40	47.97	120	
m-Nitrotoluene	40	44.301	111	
o-Nitrotoluene	40	42.717	107	
p-Nitrotoluene	40	40.049	100	
1,3,5-Trinitrobenzene	40	62.632	157	*
1,3-Dinitrobenzene-d4	500	454.977	91	
2,4,6-Trinitrotoluene	40	36.667	92	
2,4-Dinitrotoluene	40	34.288	86	
2,6-Dinitrotoluene	40	40.401	101	
2,6-Dinitrotoluene-d3	500	509.639	102	
2-Amino-4,6-dinitrotoluene	40	40.883	102	
3,4-Dinitrotoluene	20	16.575	83	
4-Amino-2,6-dinitrotoluene	40	30.131	75	
HMX	40	42.046	105	
Nitrobenzene	40	53.695	134	*
PETN	40	42.102	105	
RDX	40	34.339	86	

Recovery Limits:

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

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108012a

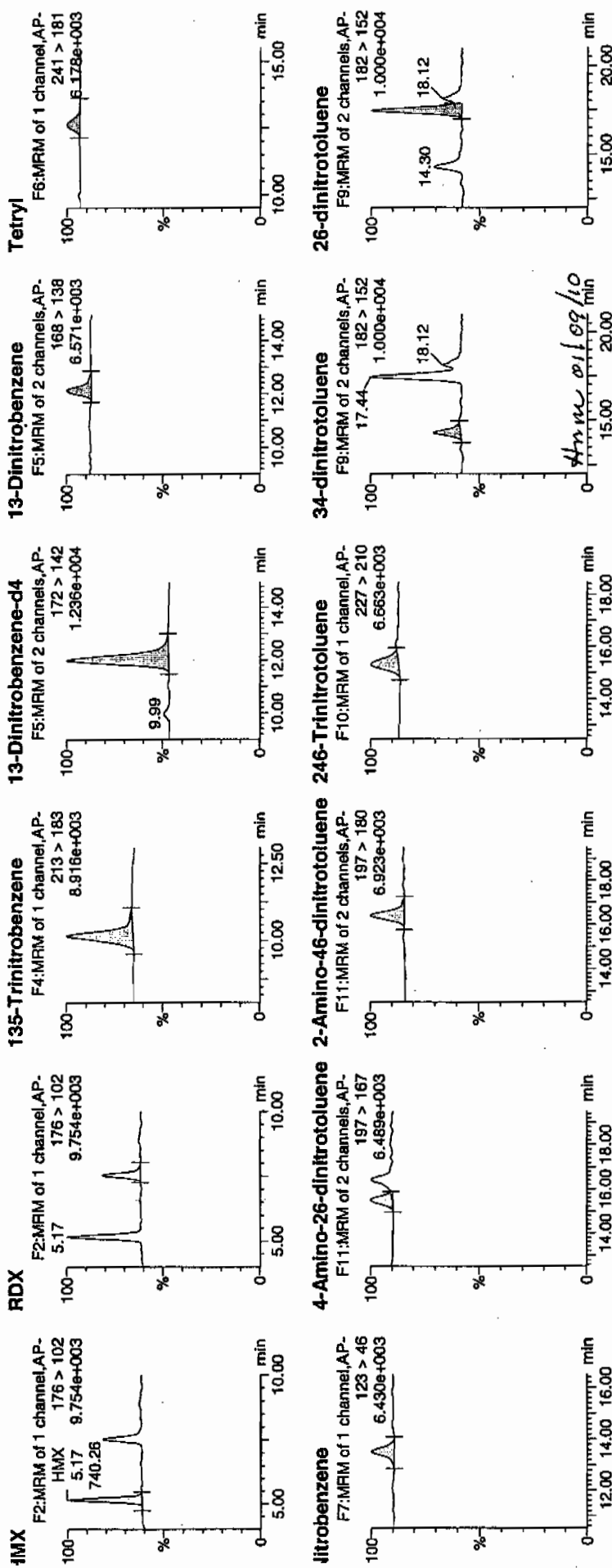
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Time: 22:39:36

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Ratio: 1:1,C

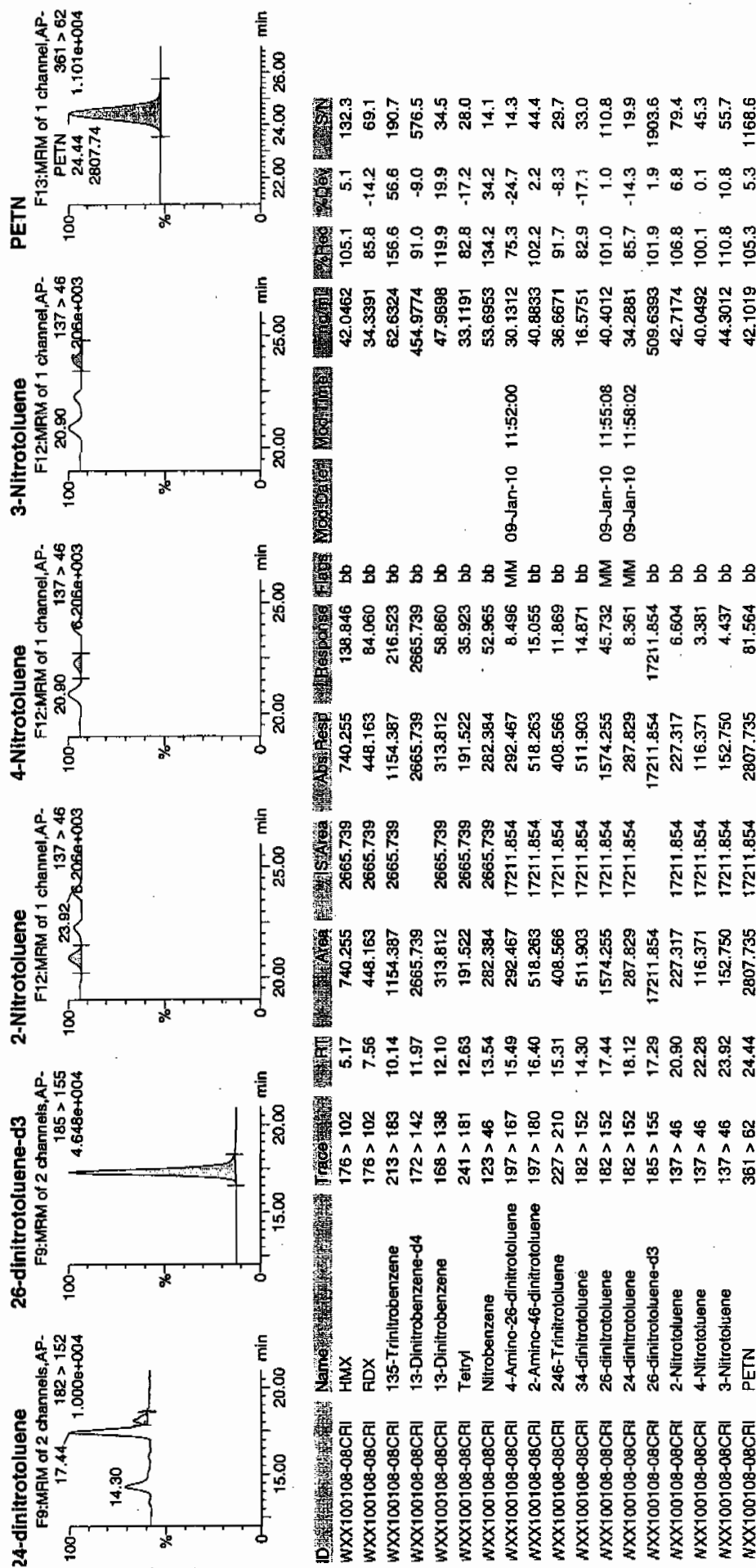
19/10



Printed: Sat Jan 09 12:02:23 2010, Page 24 of 61

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

Dataset: C:\MASSLYNX\New_Exp\PRO010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/08/10
 Time of Injection 2239
 Standard Number WXX100108-08CRI
 Data File EXP0108012a

HMX	105.1
RDX	85.8
135-TNB	156.6
13-DNB	119.9
Tetryl	82.8
Nitrobenzene	134.2
4A-26-DNT	75.3
2A-46-DNT	102.2
246-TNT	91.7
34-DNT(surr)	82.9
26-DNT	101.0
24-DNT	85.7
2-NT	106.8
4-NT	100.1
3-NT	110.8
PETN	105.3

mtf
1/9/10

Total 1646.2

Average 102.9

Sum 01/09/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108018a

Analysis Date: 09-JAN-10 01:36

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	600	494.24	82	
1,3,5-Trinitrobenzene	600	606.021	101	
1,3-Dinitrobenzene-d4	500	516.054	103	
2,4,6-Trinitrotoluene	600	608.705	101	
2,4-Dinitrotoluene	600	628.741	105	
2,6-Dinitrotoluene	600	563.684	94	
2,6-Dinitrotoluene-d3	500	538.099	108	
2-Amino-4,6-dinitrotoluene	600	601.969	100	
3,4-Dinitrotoluene	300	285.84	95	
4-Amino-2,6-dinitrotoluene	600	533.955	89	
HMX	600	554.517	92	
Nitrobenzene	600	581.678	97	
PETN	600	551.216	92	
RDX	600	705.816	118	
Tetryl	600	552.916	92	
m-Dinitrobenzene	600	589.319	98	
m-Nitrotoluene	600	544.817	91	
o-Nitrotoluene	600	528.699	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
 3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108018a

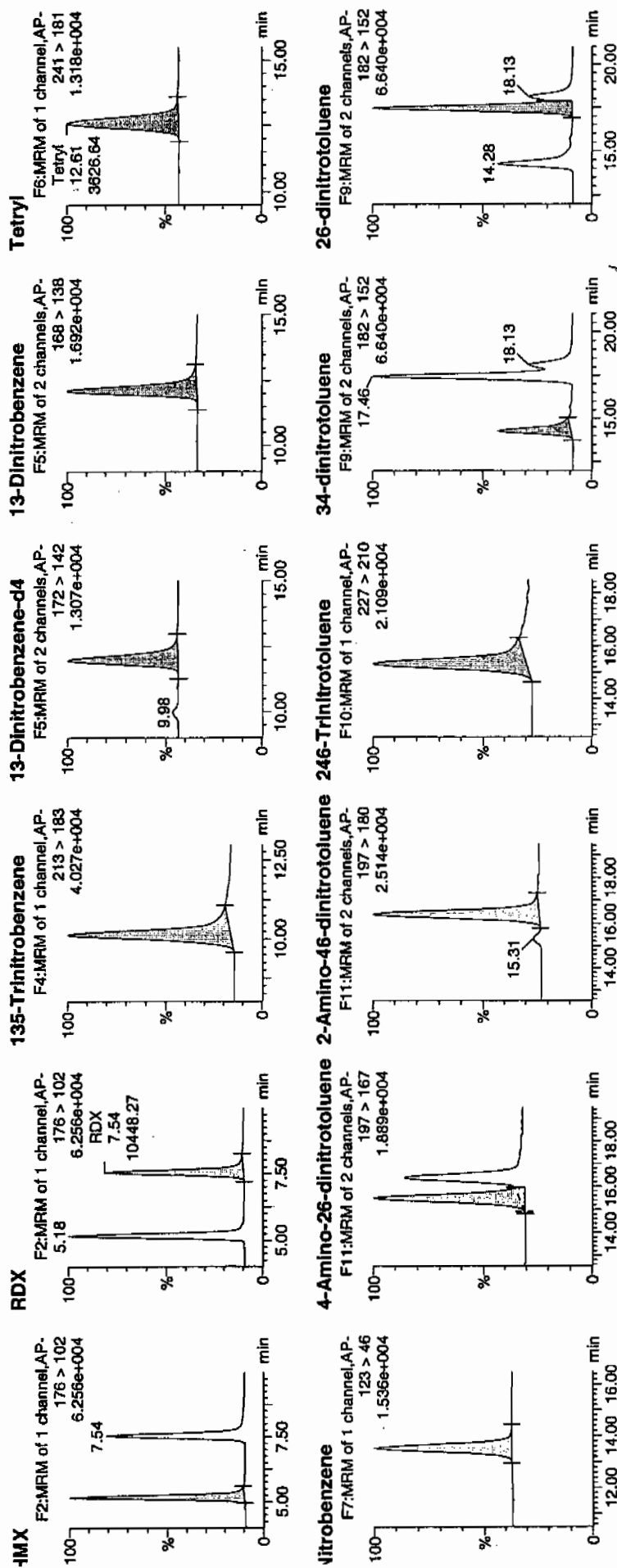
Date: 09-Jan-2010

Time: 01:36:28

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File: 1:1,B

1/9/10

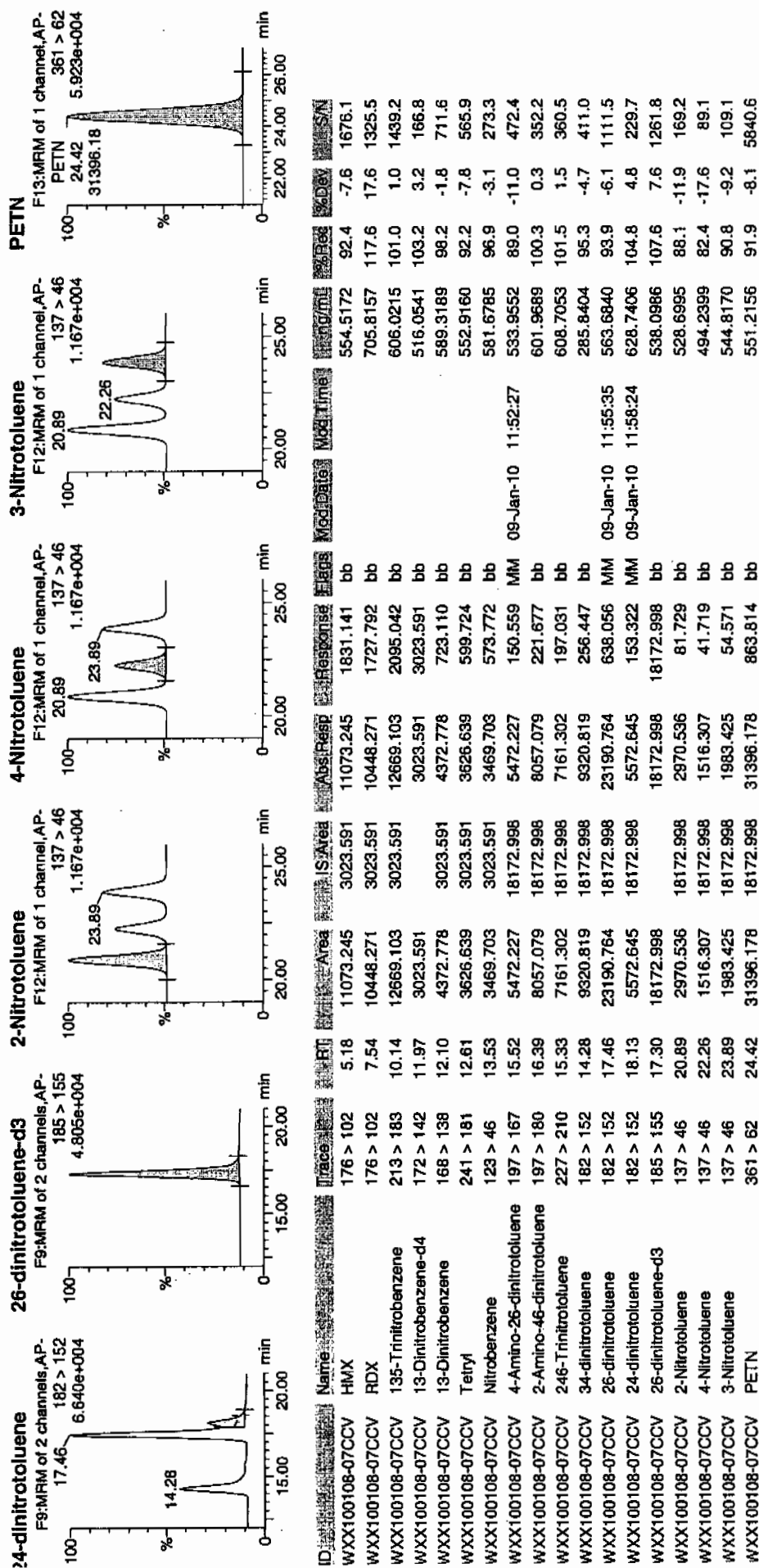


Handwritten note: 1/9/10

Printed: Sat Jan 09 12:02:23 2010, Page 36 of 61

Quantify Sample Report
 3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/09/10
 Time of Injection: 0136
 Standard Number: WXX100108-07CCV
 Data File: EXP0108018a

HMX	92.4
RDX	117.6
135-TNB	101.0
13-DNB	98.2
Tetryl	92.2
Nitrobenzene	96.9
4A-26-DNT	89.0
2A-46-DNT	100.3
246-TNT	101.5
34-DNT(surr)	95.3
26-DNT	93.9
24-DNT	104.8
2-NT	88.1
4-NT	82.4
3-NT	90.8
PETN	91.9

MAF
1/9/10

Total 1536.3

Average 96.0

Done 01/09/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108020a

Analysis Date: 09-JAN-10 02:35

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	57.42	144	*
1,3-Dinitrobenzene-d4	500	478.135	96	
2,4,6-Trinitrotoluene	40	47.739	119	
2,4-Dinitrotoluene	40	43.444	109	
2,6-Dinitrotoluene	40	39.173	98	
2,6-Dinitrotoluene-d3	500	472.045	94	
2-Amino-4,6-dinitrotoluene	40	41.528	104	
3,4-Dinitrotoluene	20	19.72	99	
4-Amino-2,6-dinitrotoluene	40	39.363	98	
HMX	40	44.675	112	
Nitrobenzene	40	40.724	102	
PETN	40	50.356	126	
RDX	40	41.821	105	
Tetryl	40	41.61	104	
m-Dinitrobenzene	40	36.303	91	
m-Nitrotoluene	40	34.916	87	
o-Nitrotoluene	40	40.683	102	
p-Nitrotoluene	40	38.865	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

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Sample Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108020a

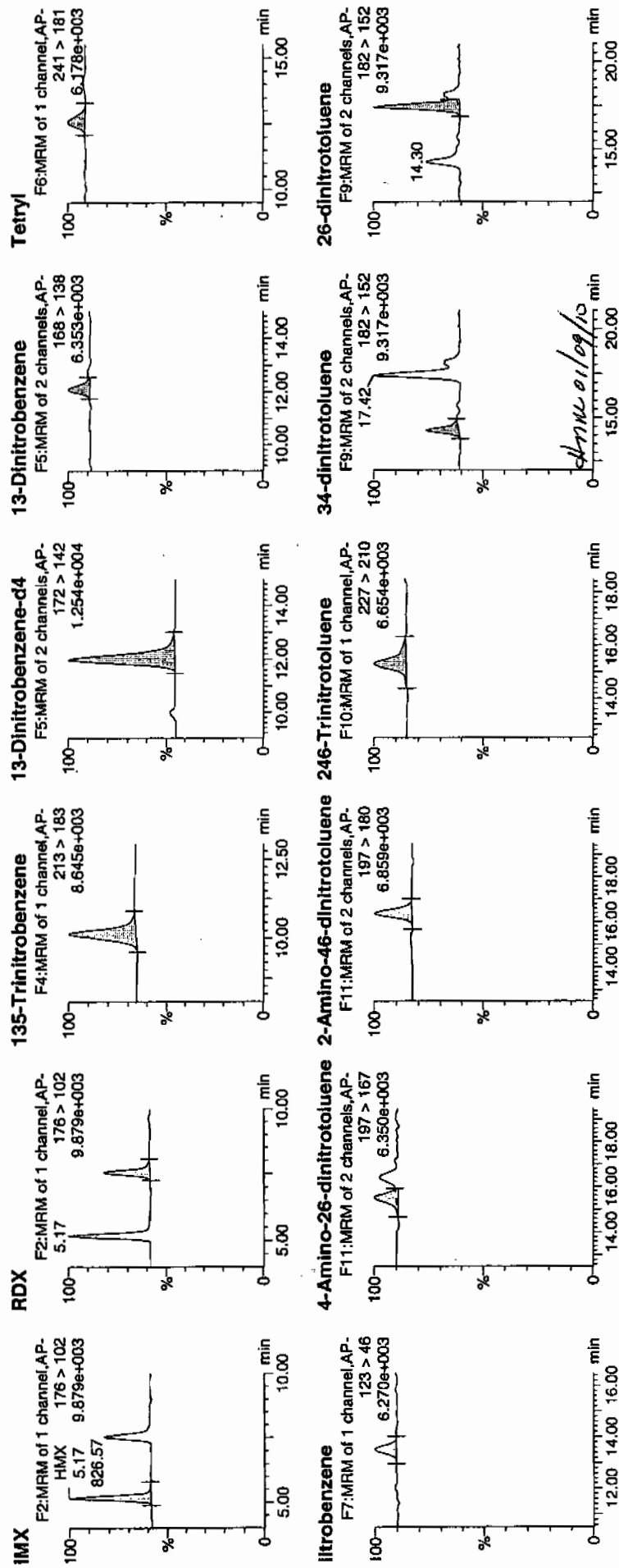
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Time: 02:35:25

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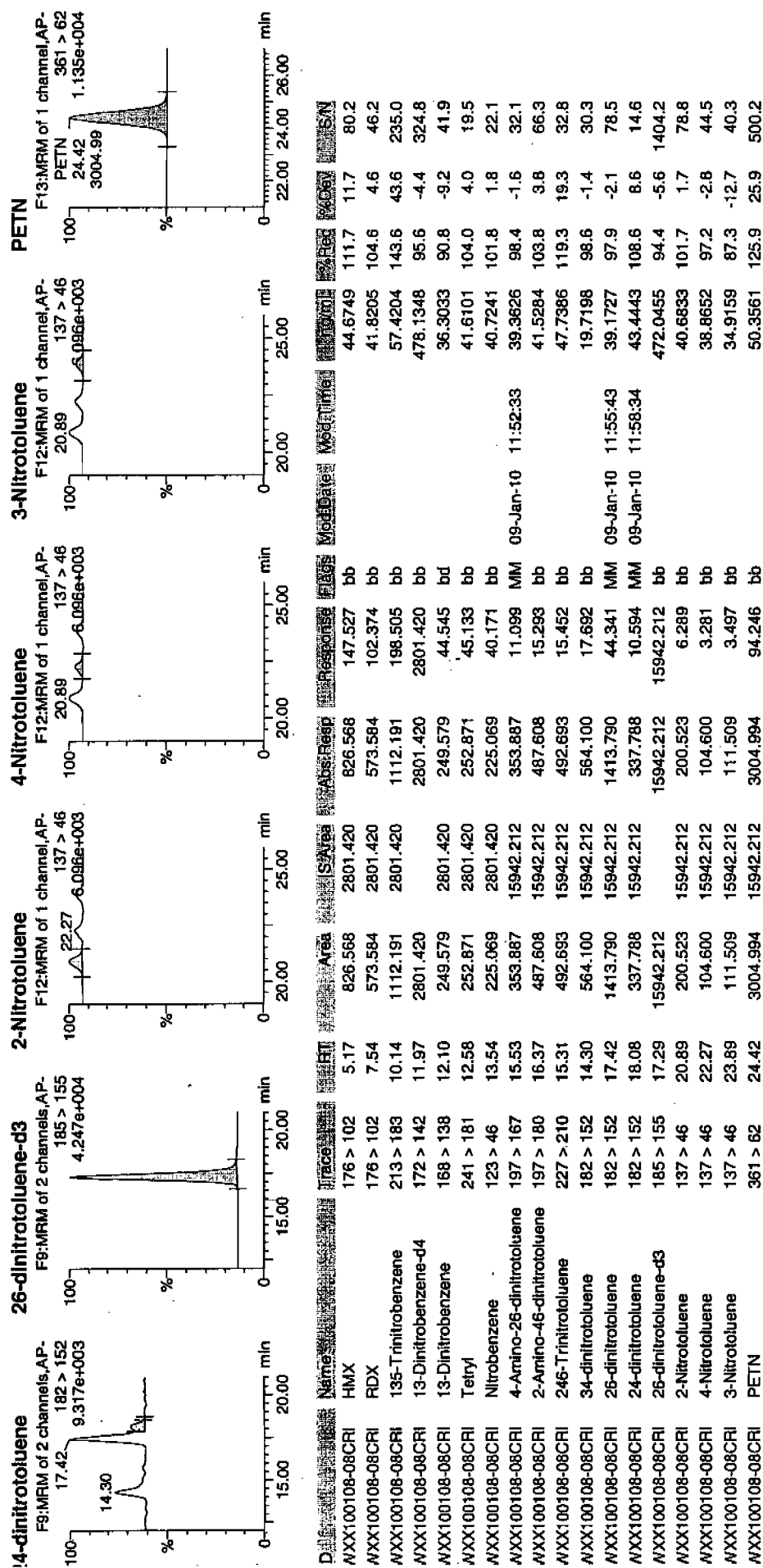
1/9/10



Printed: Sat Jan 09 12:02:23 2010, Page 40 of 61

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/09/10
 Time of Injection 0235
 Standard Number WXX100108-08CRI
 Data File EXP0108020a

HMX	111.7
RDX	104.6
135-TNB	143.6
13-DNB	90.8
Tetryl	104.0
Nitrobenzene	101.8
4A-26-DNT	98.4
2A-46-DNT	103.8
246-TNT	119.3
34-DNT(surr)	98.6
26-DNT	97.9
24-DNT	108.6
2-NT	101.7
4-NT	97.2
3-NT	87.3
PETN	125.9
Total	1695.2

mtf
1/9/10

Average

106.0

Done 01/08/10

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): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050013.wiff

Analysis Date: 05-JAN-10 17:38

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	100	98.7	99	
TATB	100	101	101	
tris(o-cresyl) phosphate	100	101	101	
2,4-Diamino-6-nitrotoluene	100	97.7	98	
2,6-Diamino-4-nitrotoluene	100	97.5	98	
3,4-Dinitrotoluene	50	50.4	101	

Recovery Limits:

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

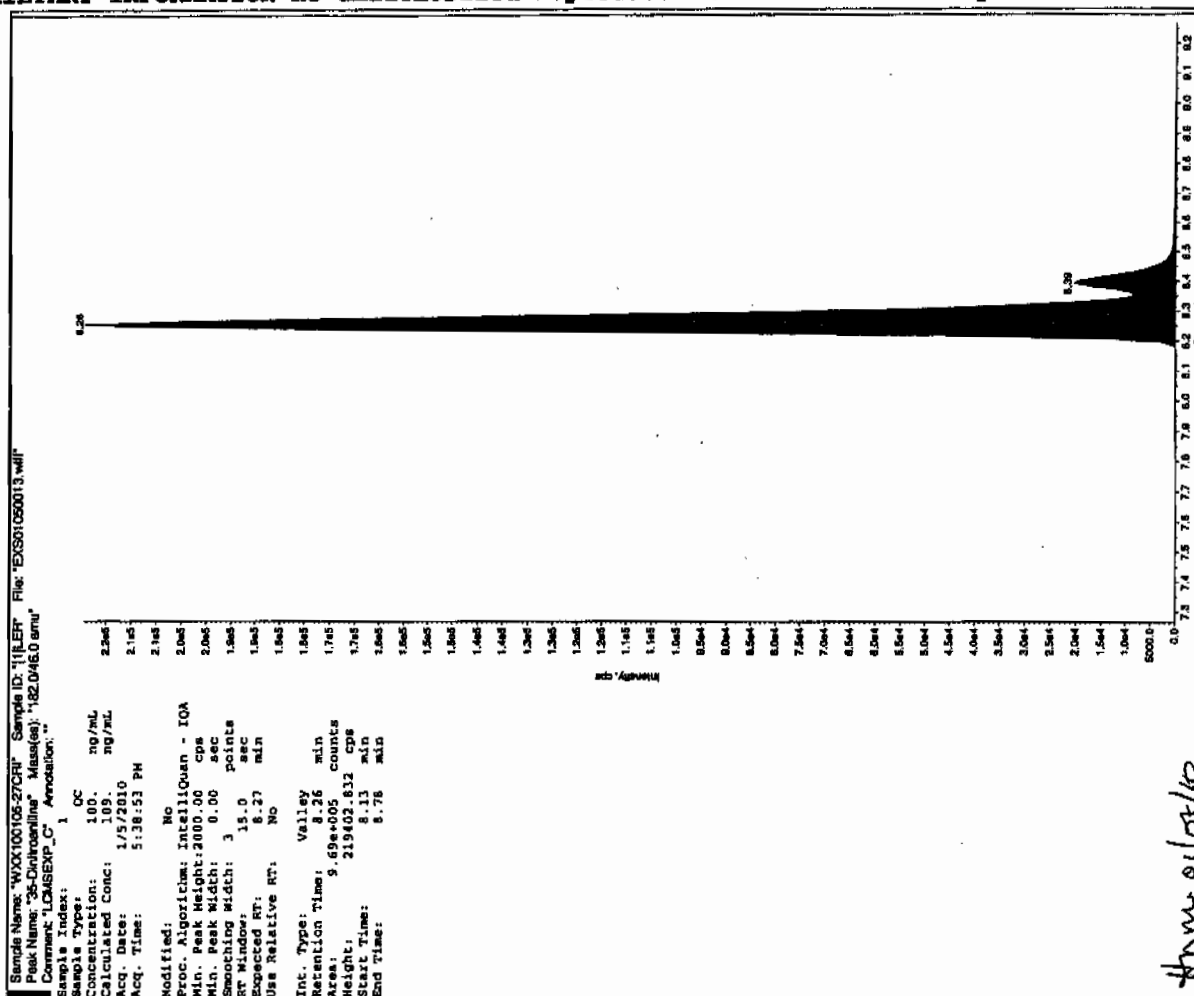
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

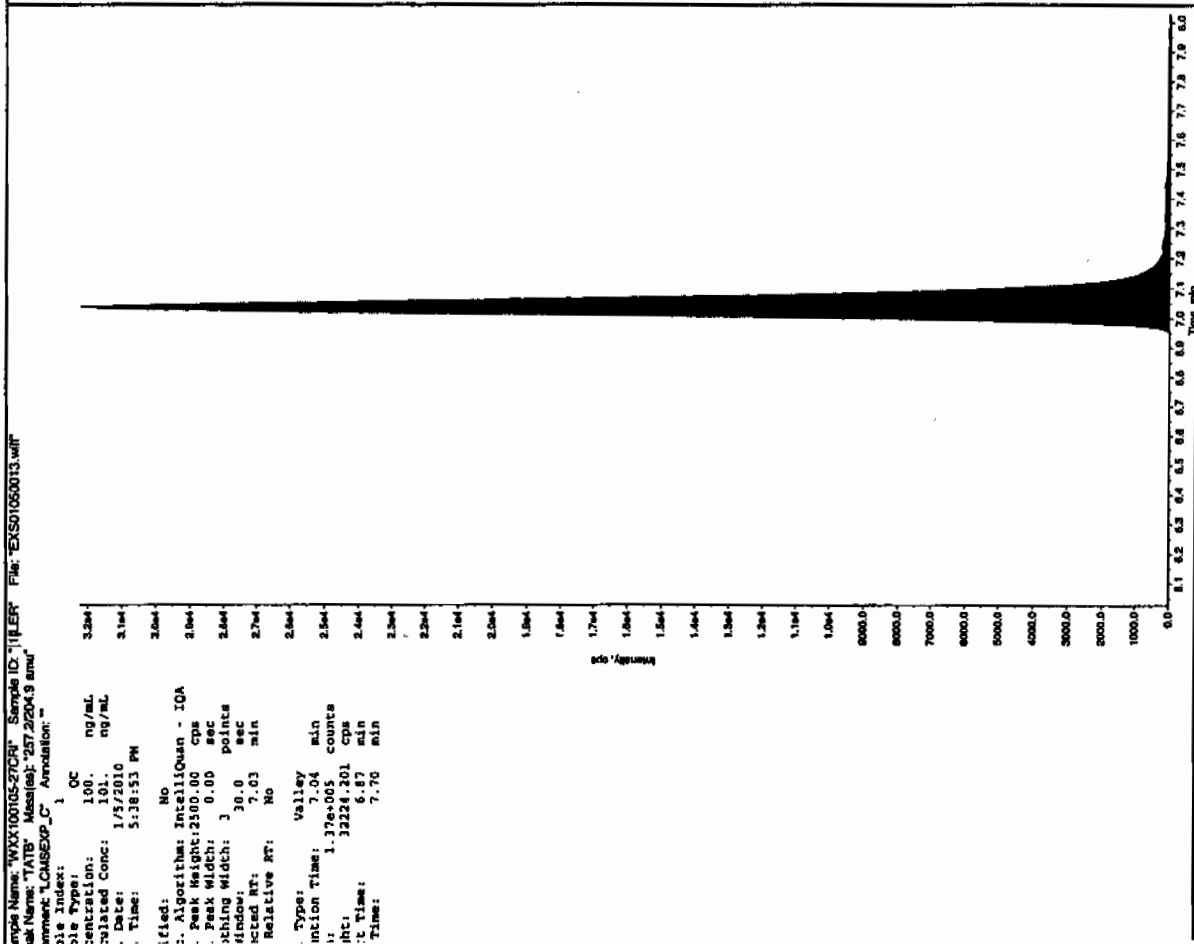
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

11/11/2010

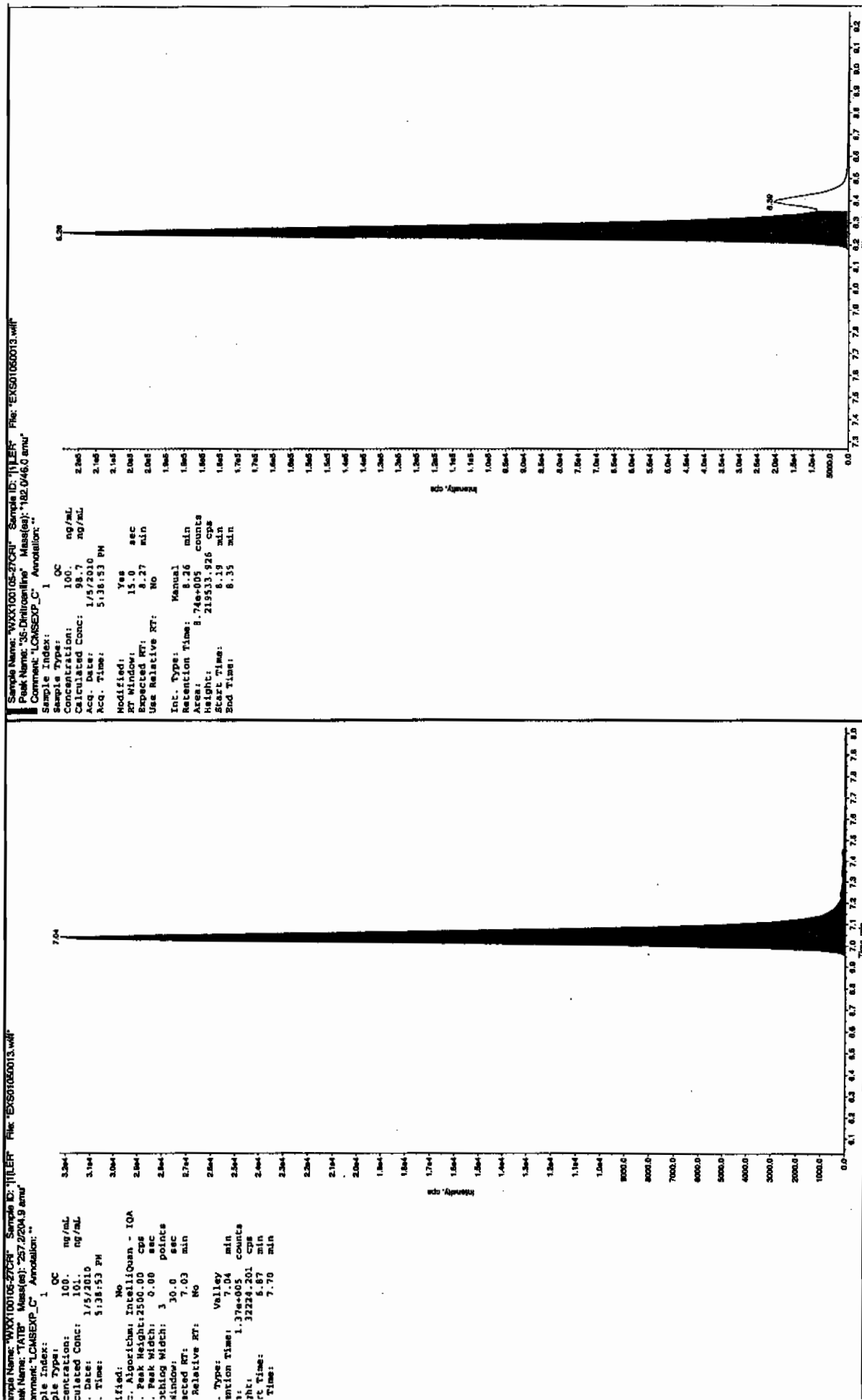


11/11/2010

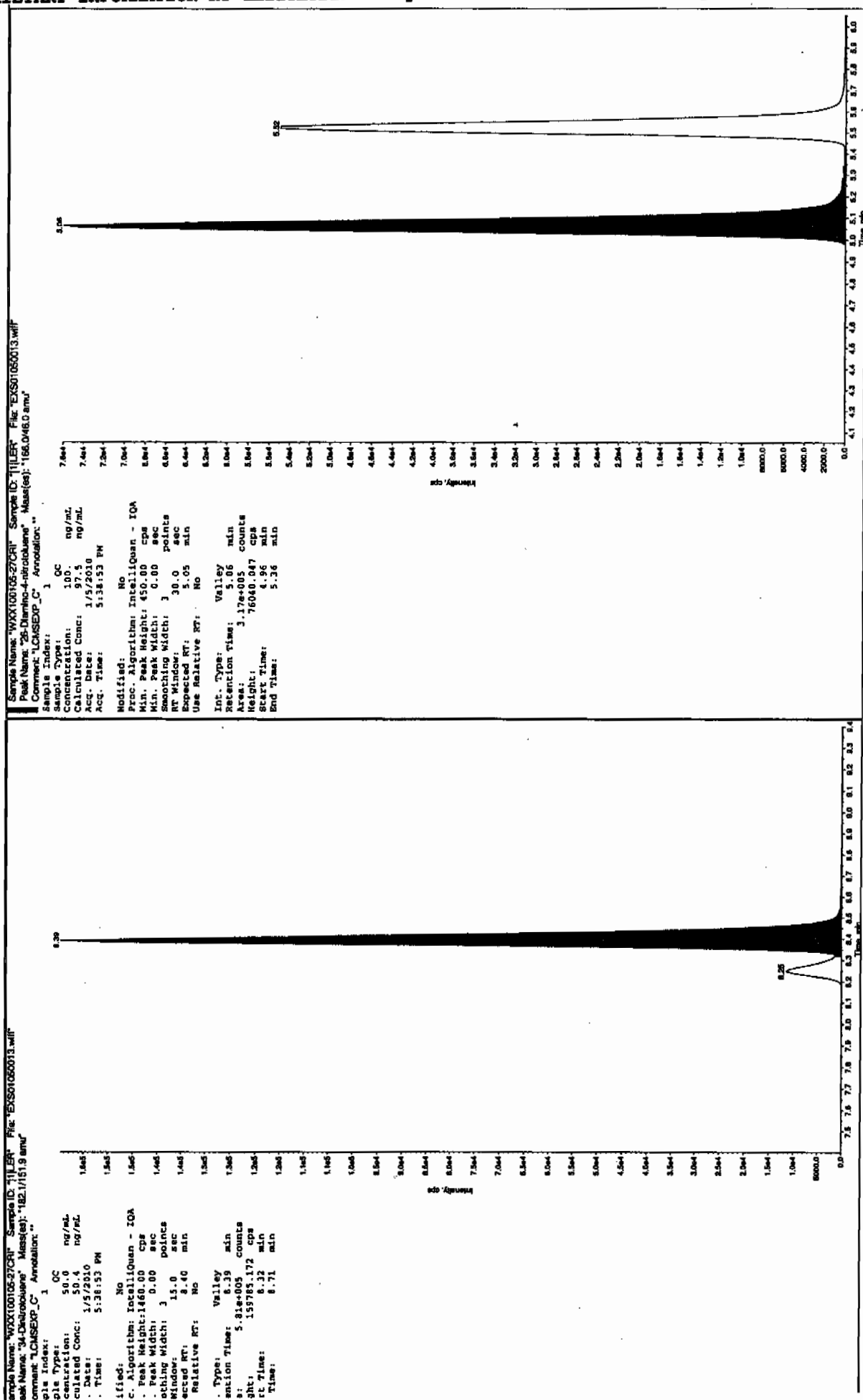


11/11/2010

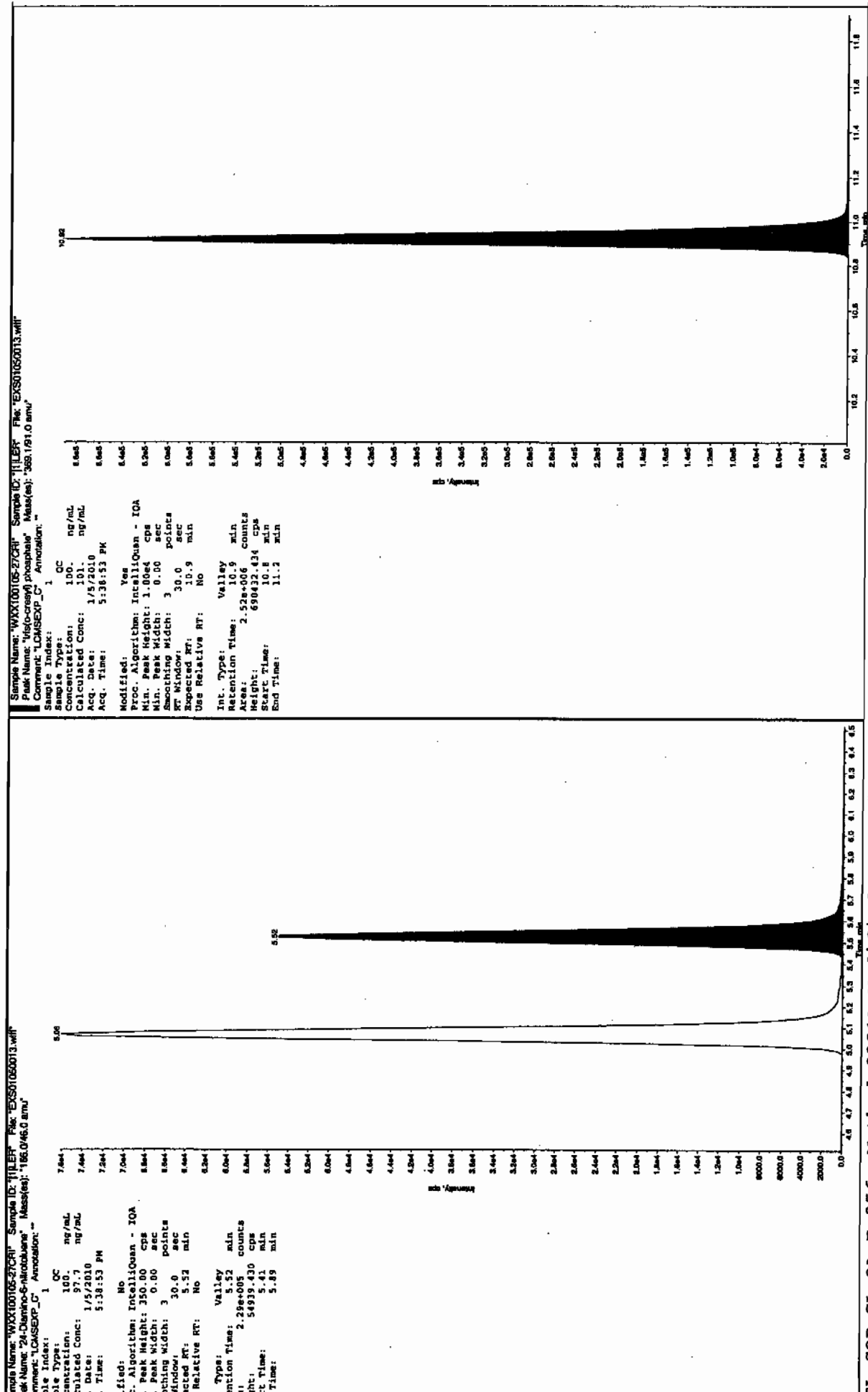
01/14/10
2012/2/28



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050024.wiff

Analysis Date: 05-JAN-10 20:31

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	498	100	
2,6-Diamino-4-nitrotoluene	500	425	85	
3,4-Dinitrotoluene	250	230	92	
3,5-Dinitroaniline	500	495	99	
TATB	500	521	104	
tris(o-cresyl) phosphate	500	508	102	

Recovery Limits:

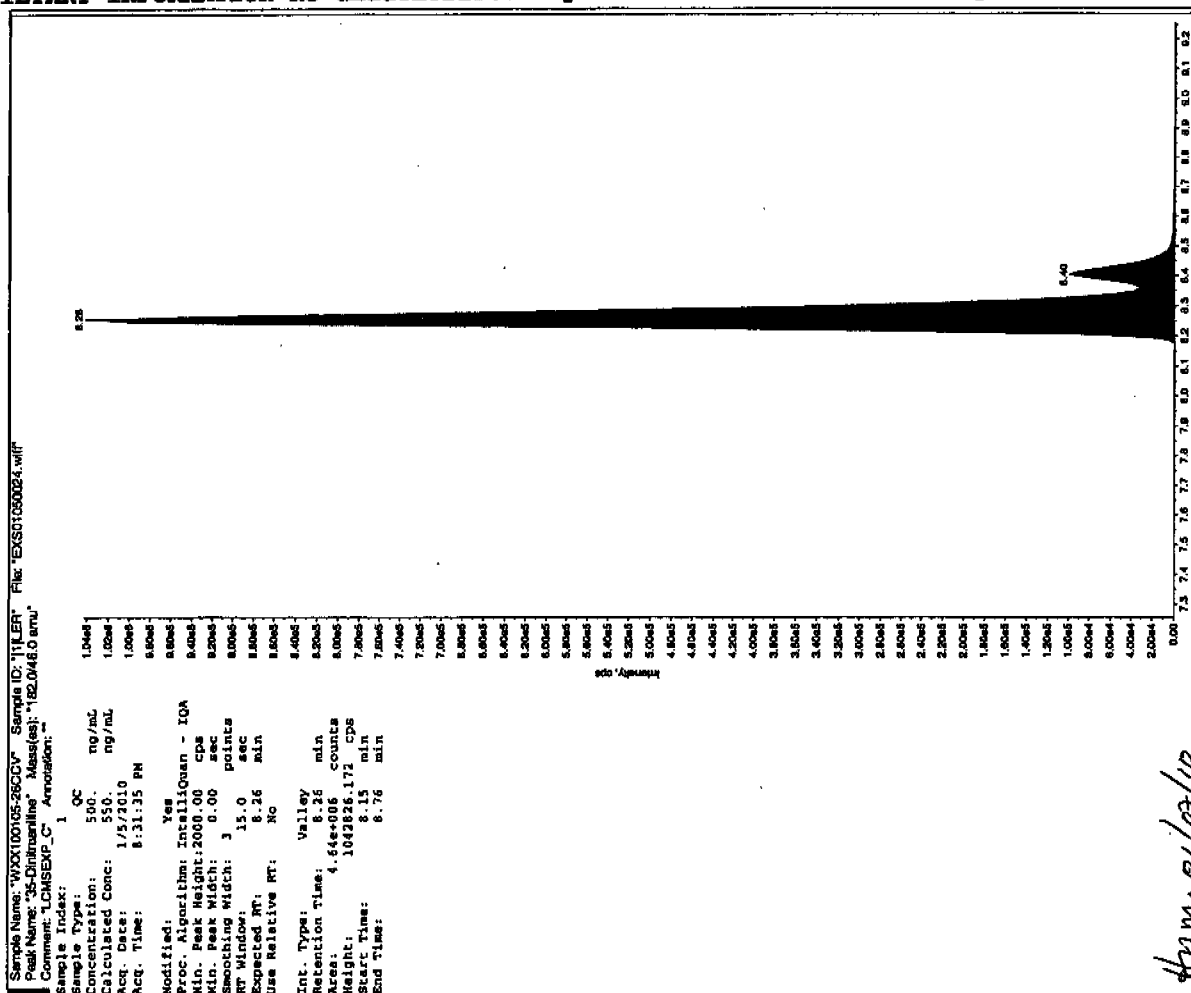
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

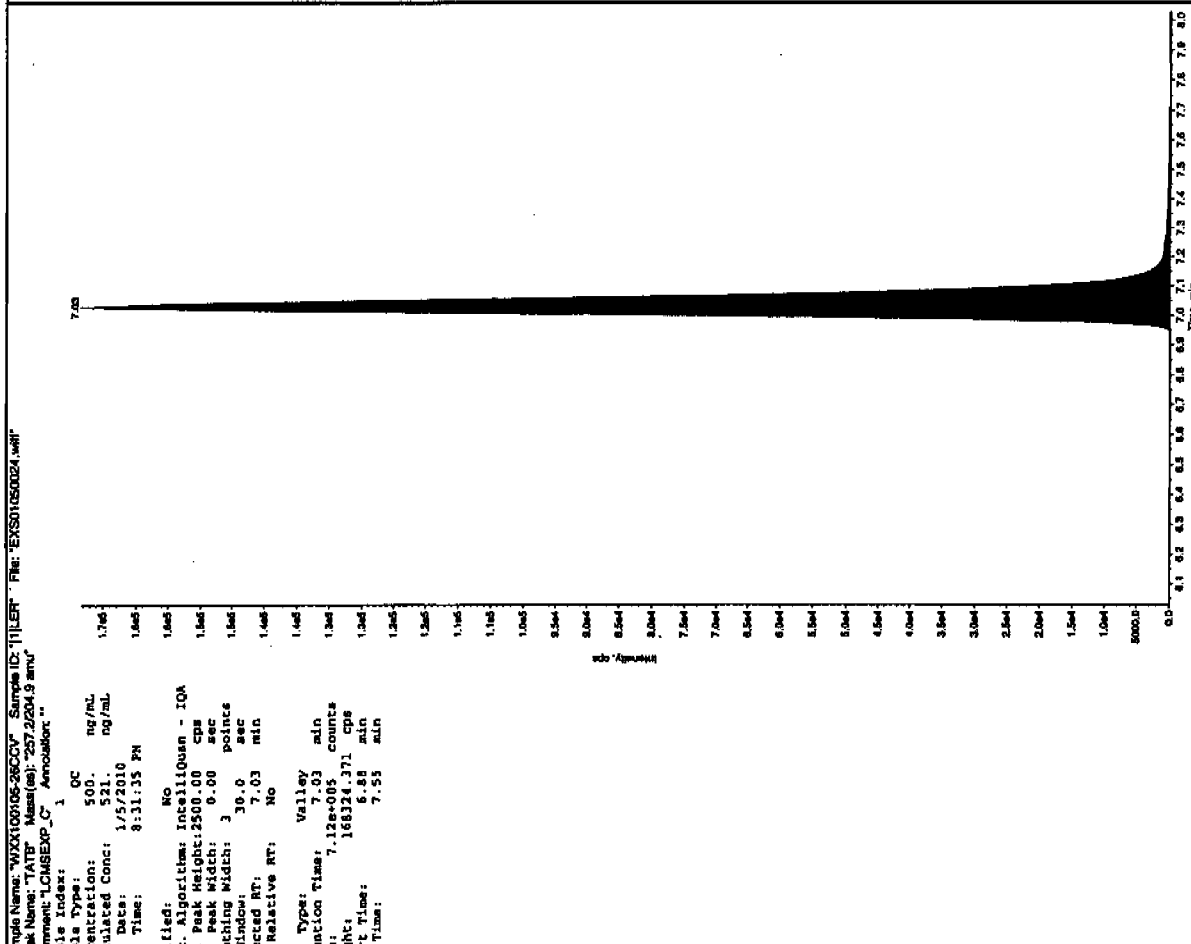
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/10/10
Dane
Bayer

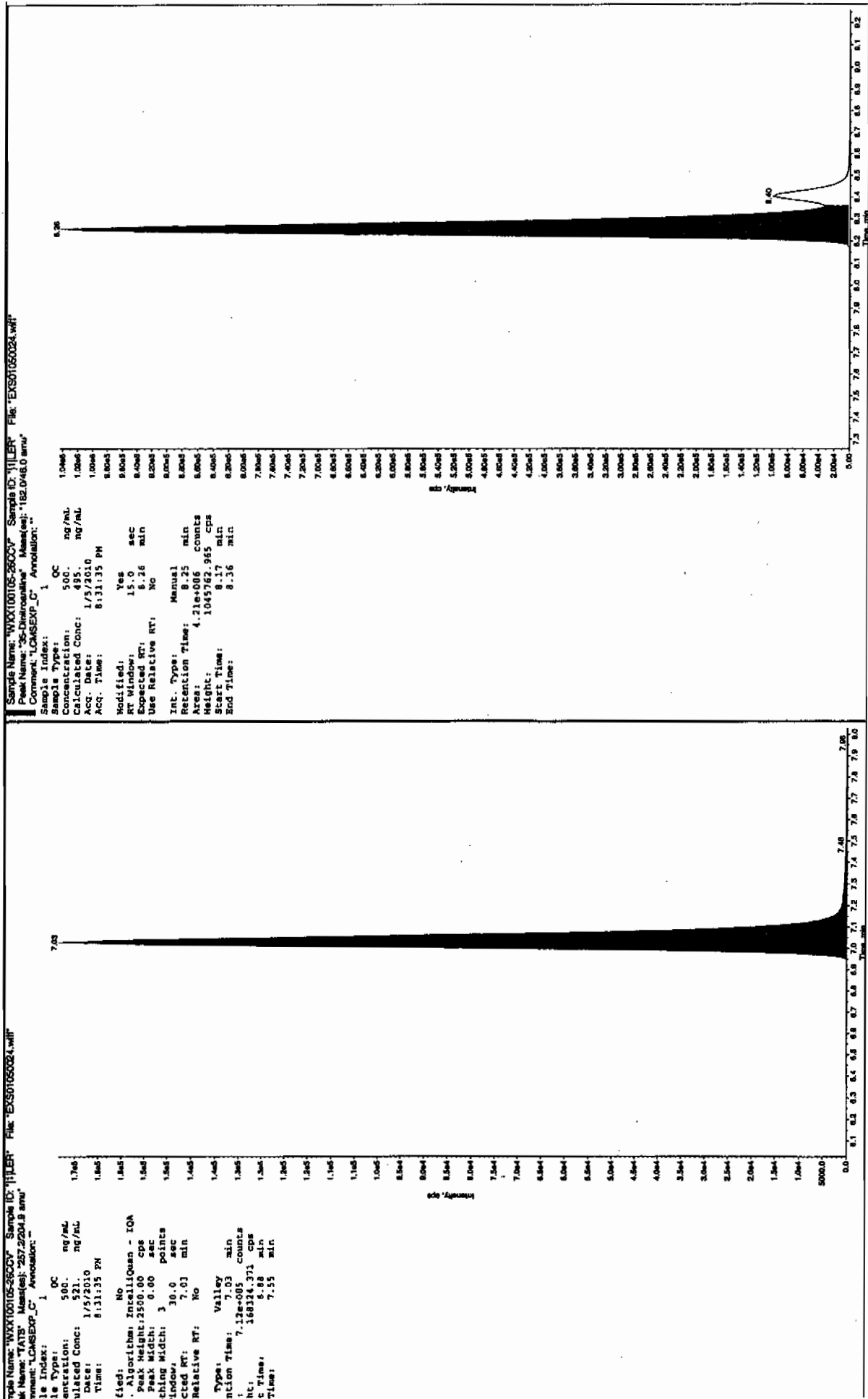


4mm 01/10/10

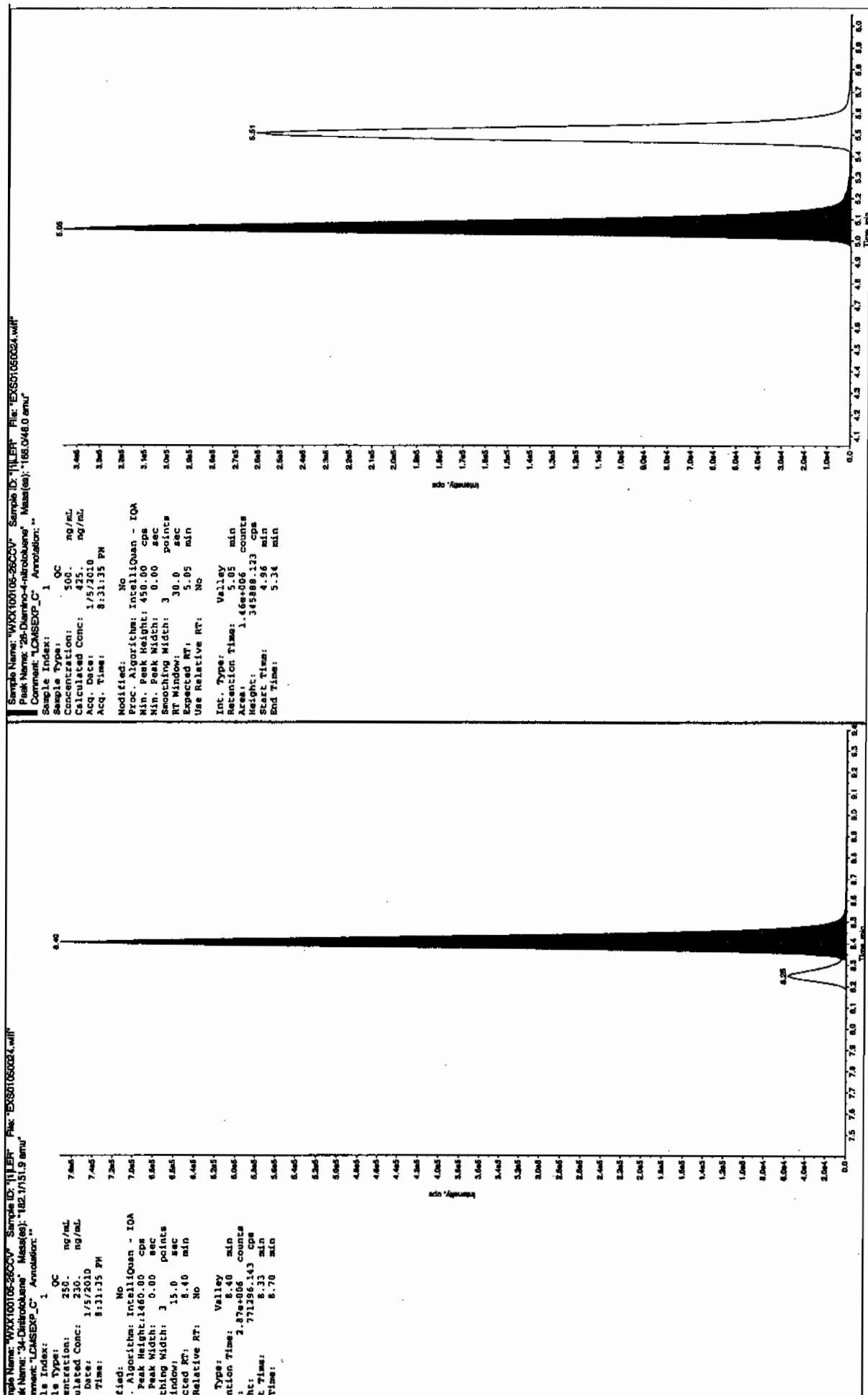


GL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

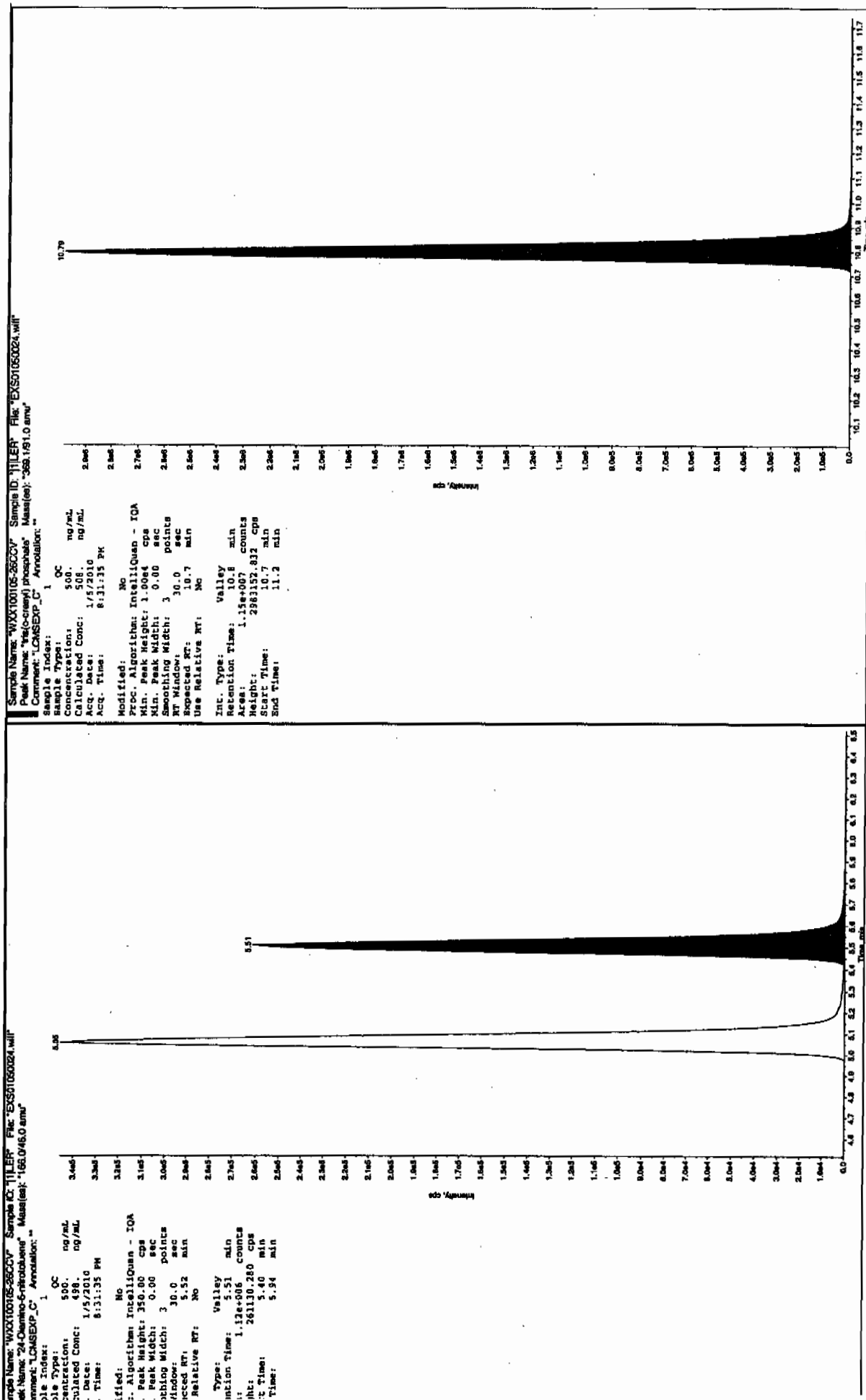
00580511410



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



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



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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050026.wiff

Analysis Date: 05-JAN-10 21:03

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	89.5	90	
2,6-Diamino-4-nitrotoluene	100	93.1	93	
3,4-Dinitrotoluene	50	50.6	101	
3,5-Dinitroaniline	100	102	102	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	93.4	93	

Recovery Limits:

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

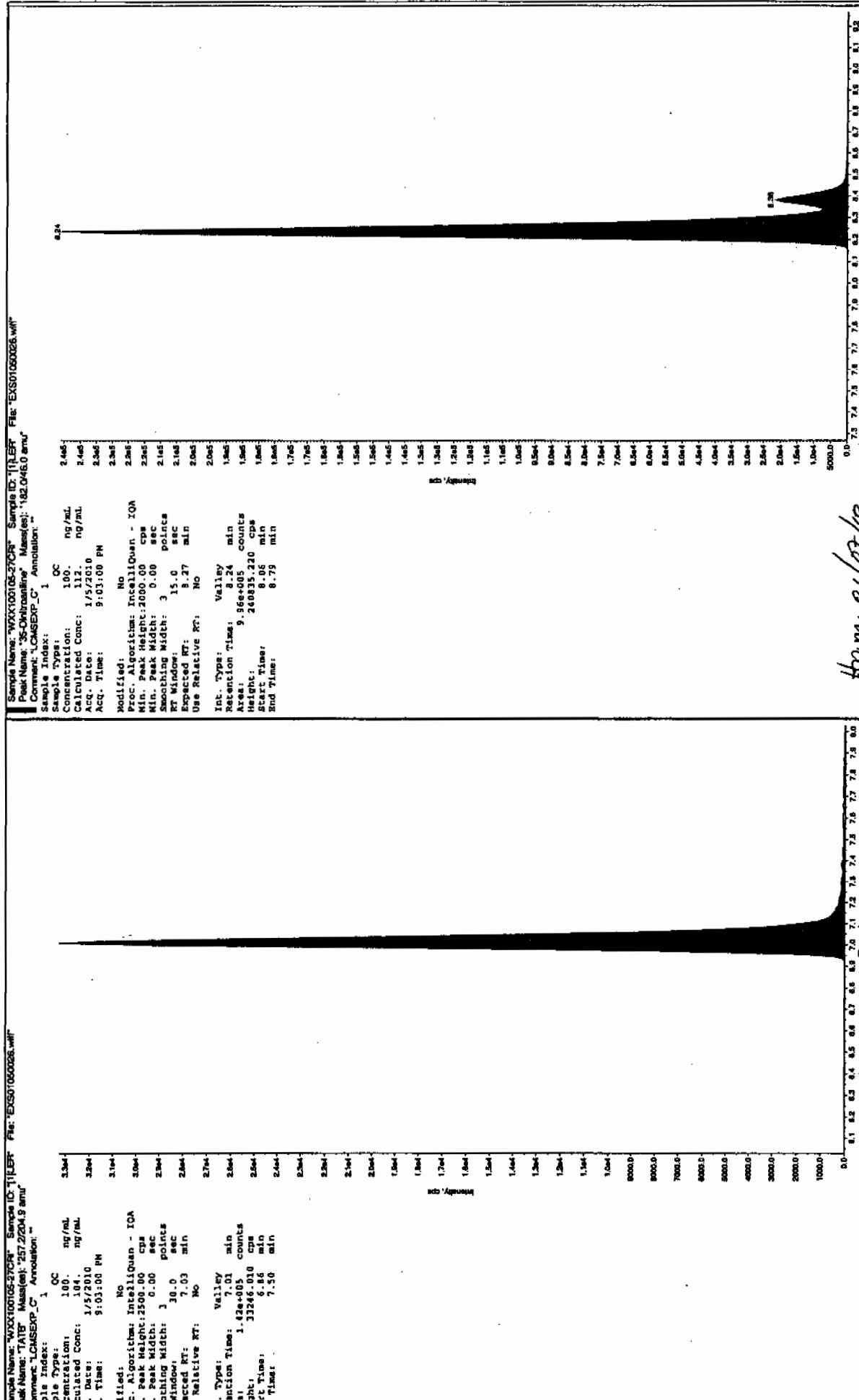
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

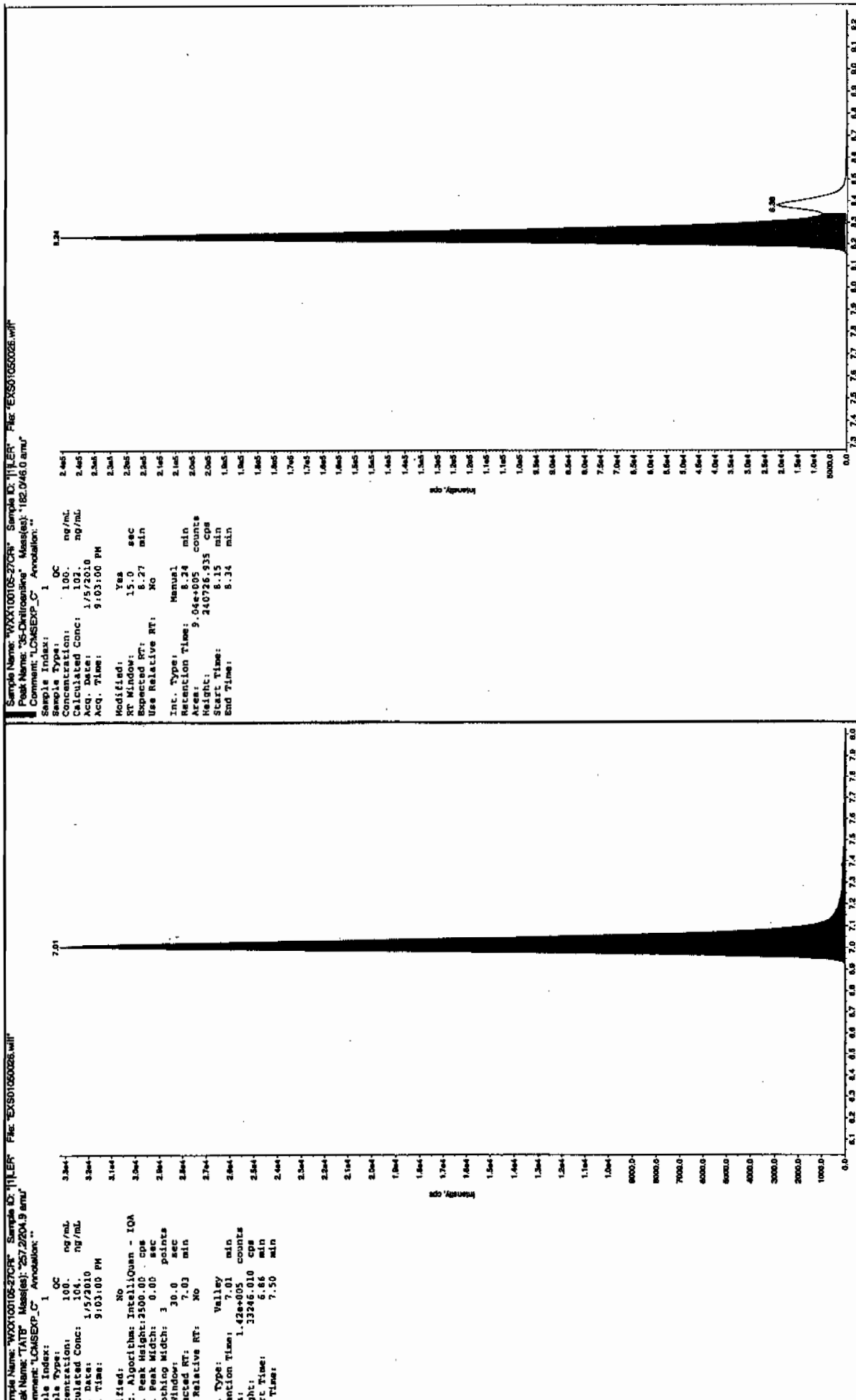
* Value outside of Recovery Limits

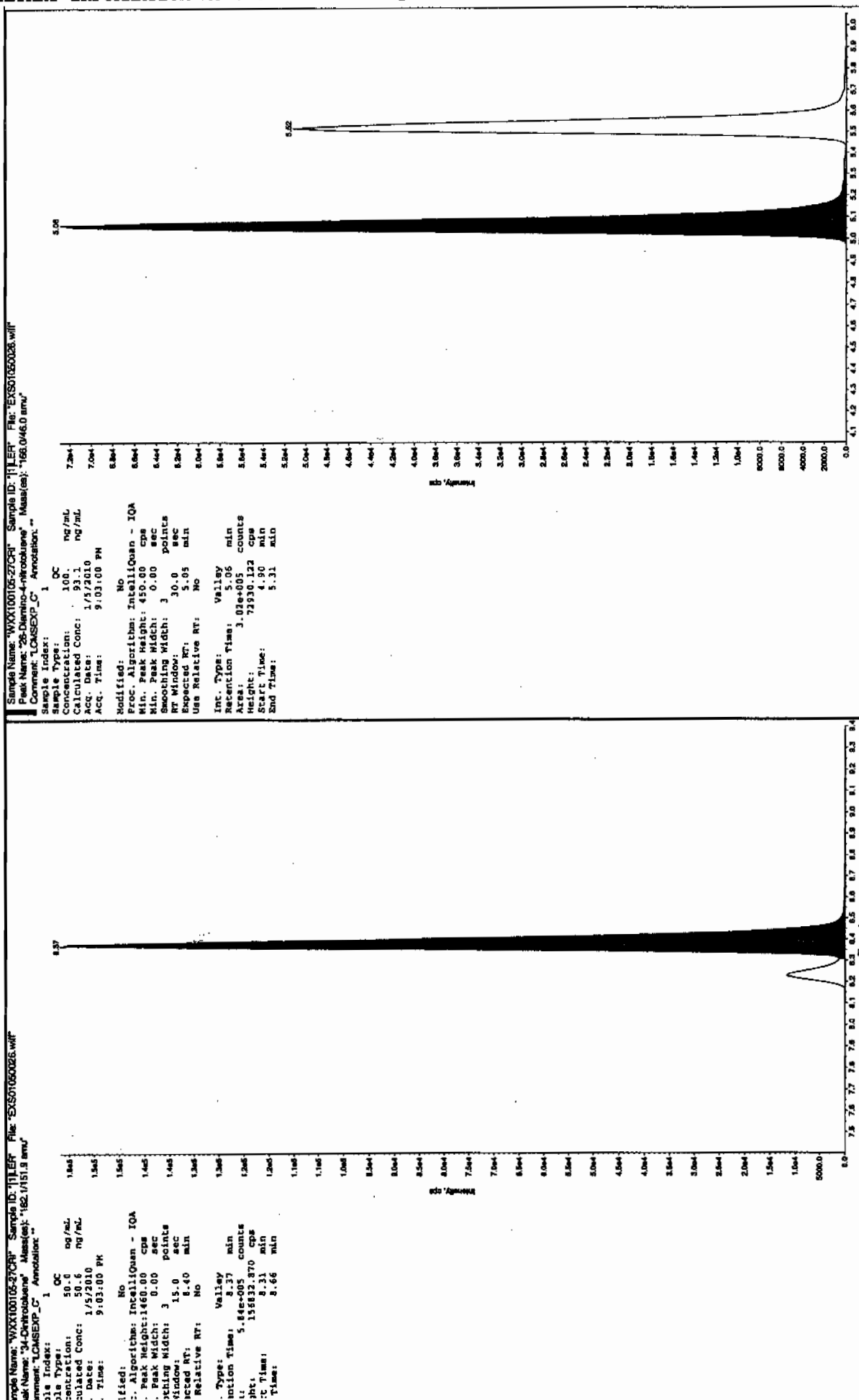
1/17/10
D. J. J.



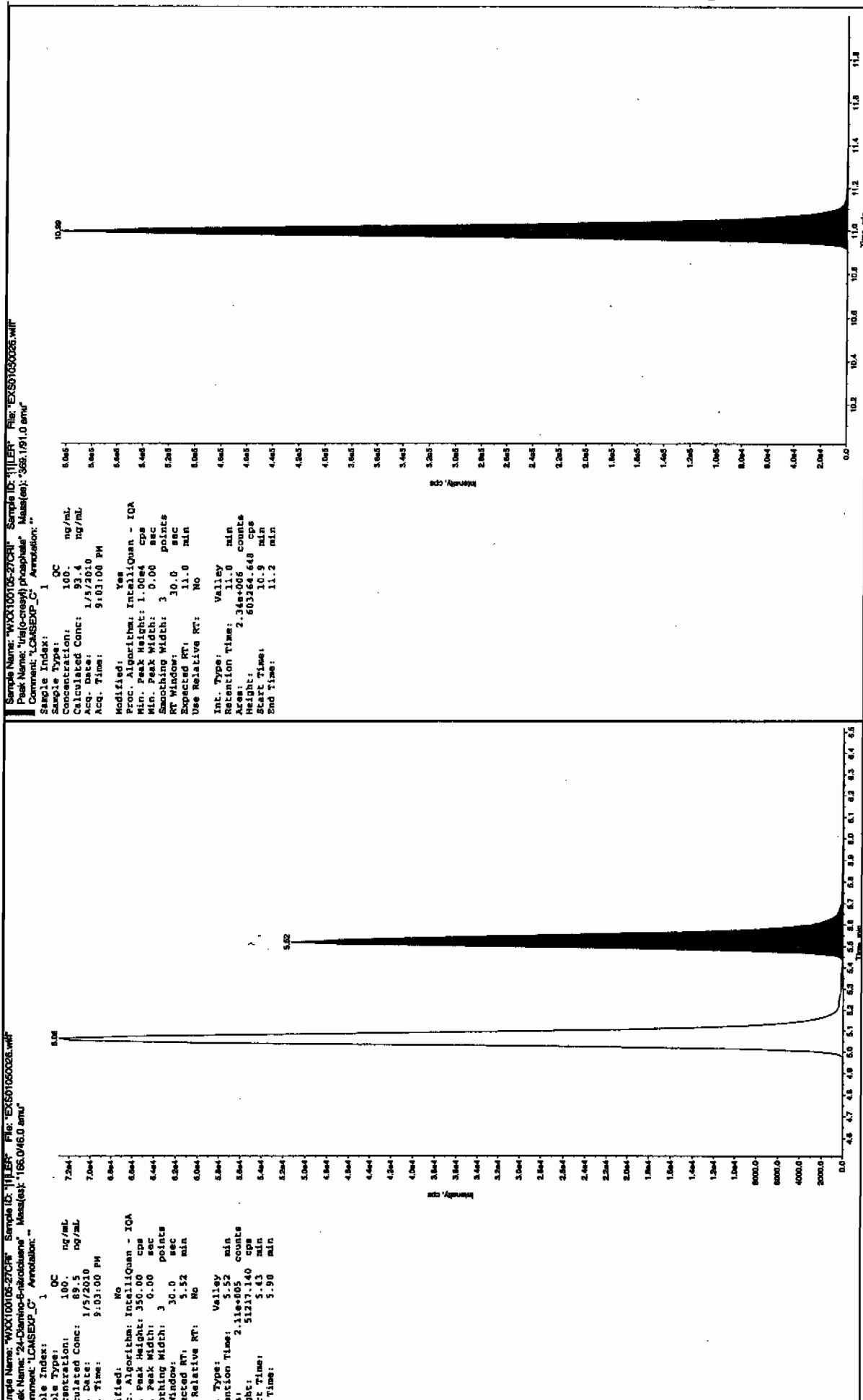
8.24 min

all
2/2/10





EL SOP GL-OA-E-056, Method 8321A-Modified LCMSEMS#4



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050037.wiff

Analysis Date: 05-JAN-10 23:55

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	469	94	
2,6-Diamino-4-nitrotoluene	500	380	76	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	522	104	
TATB	500	521	104	
tris(o-cresyl) phosphate	500	475	95	

Recovery Limits:

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

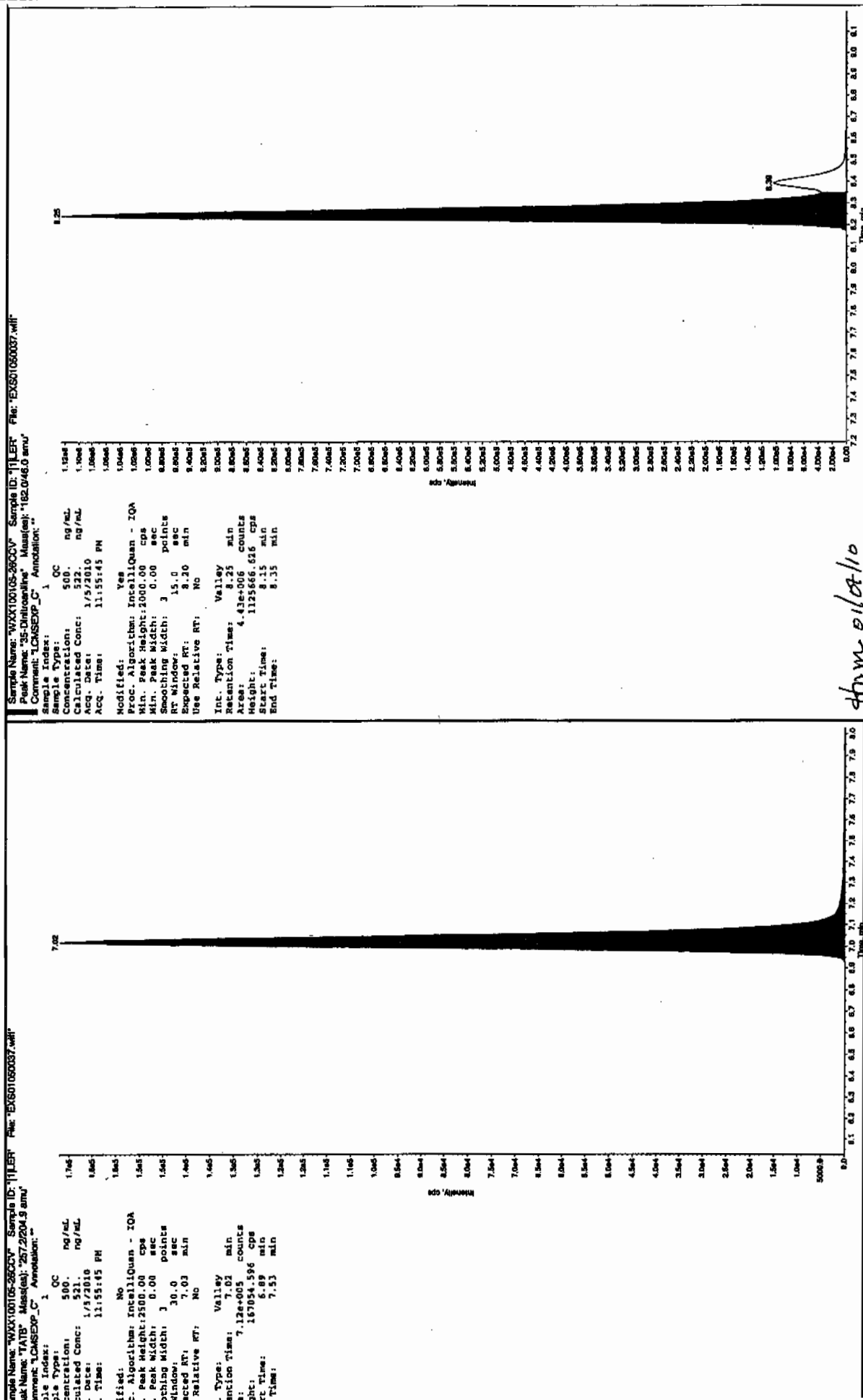
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

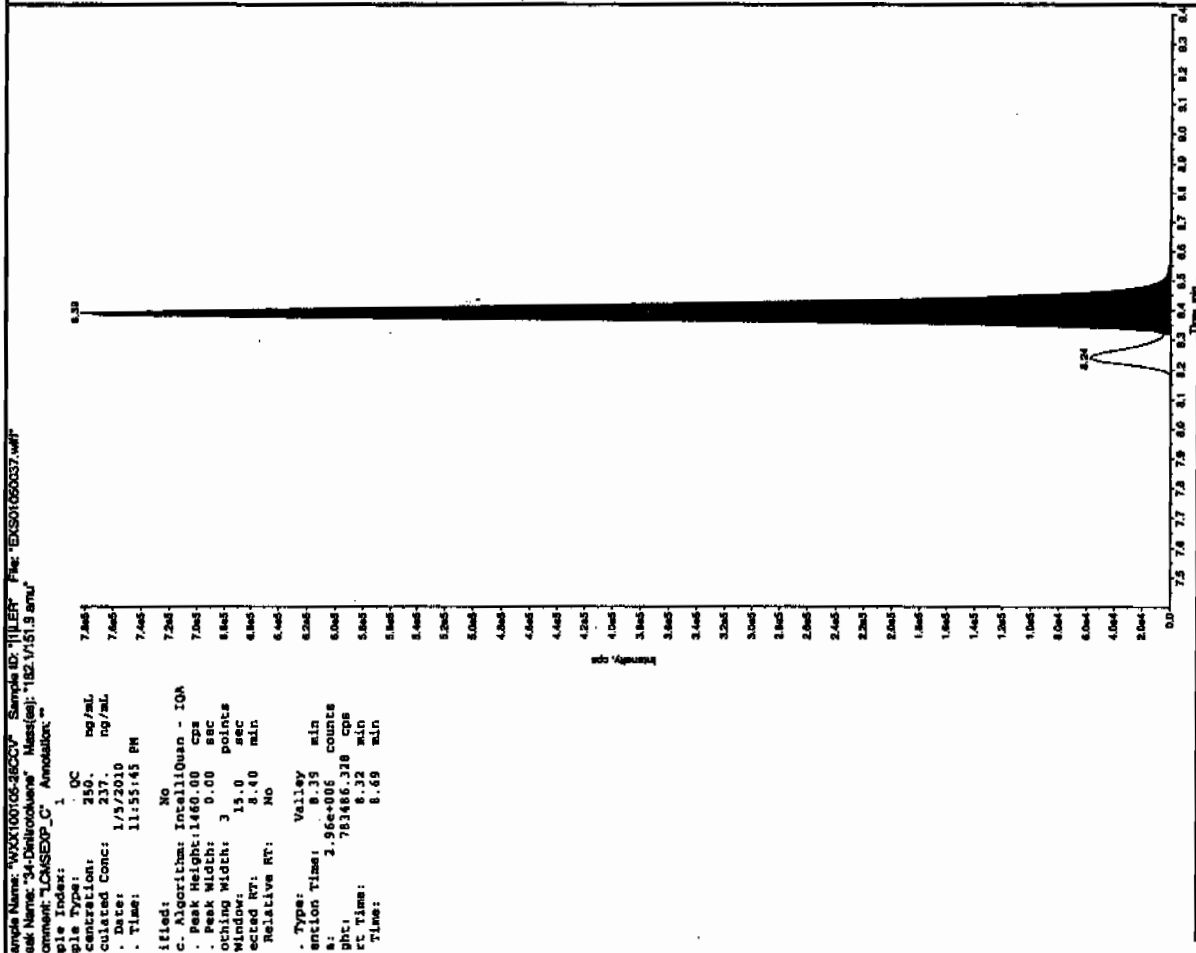
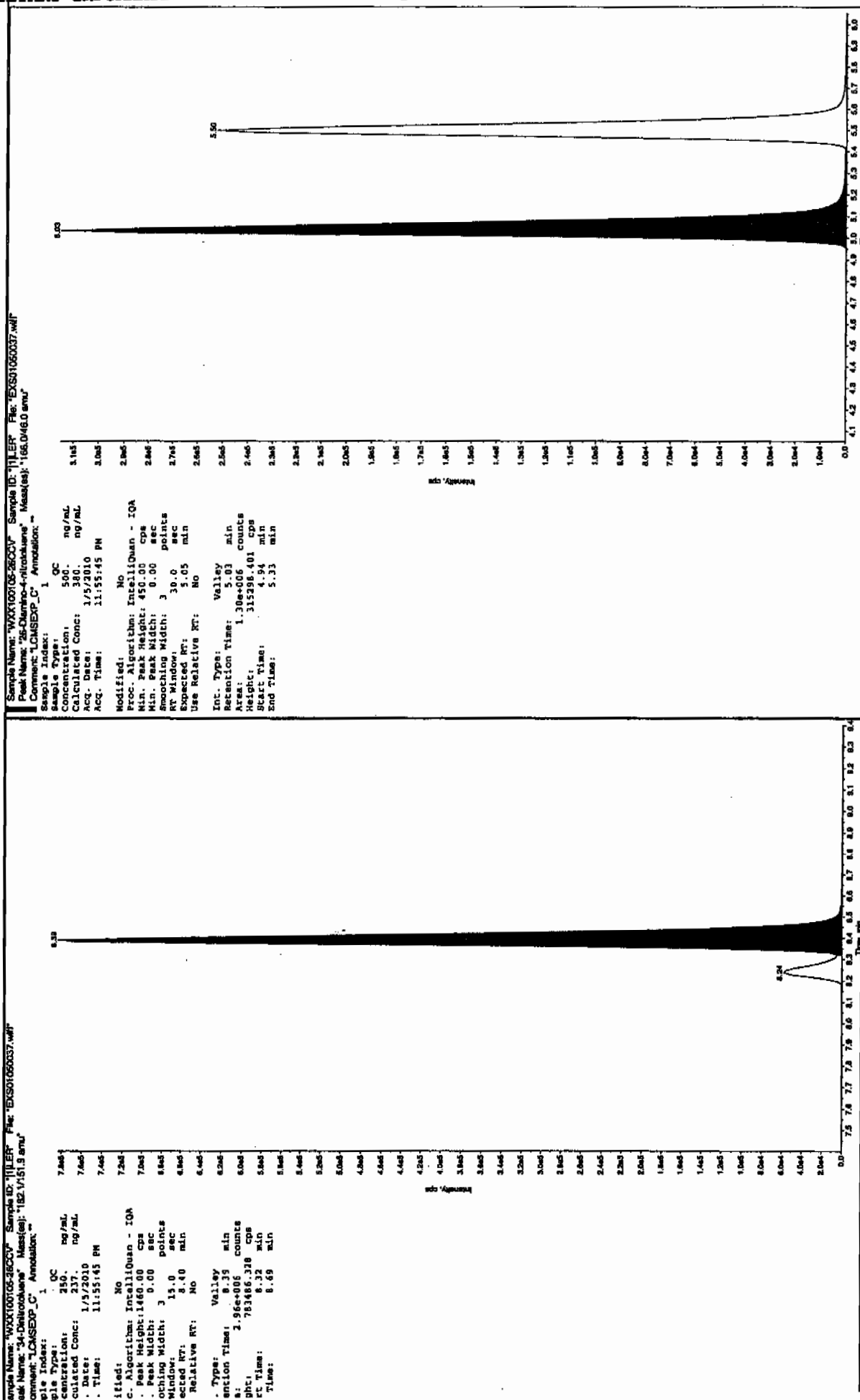
* Value outside of Recovery Limits

01/16/11
2028

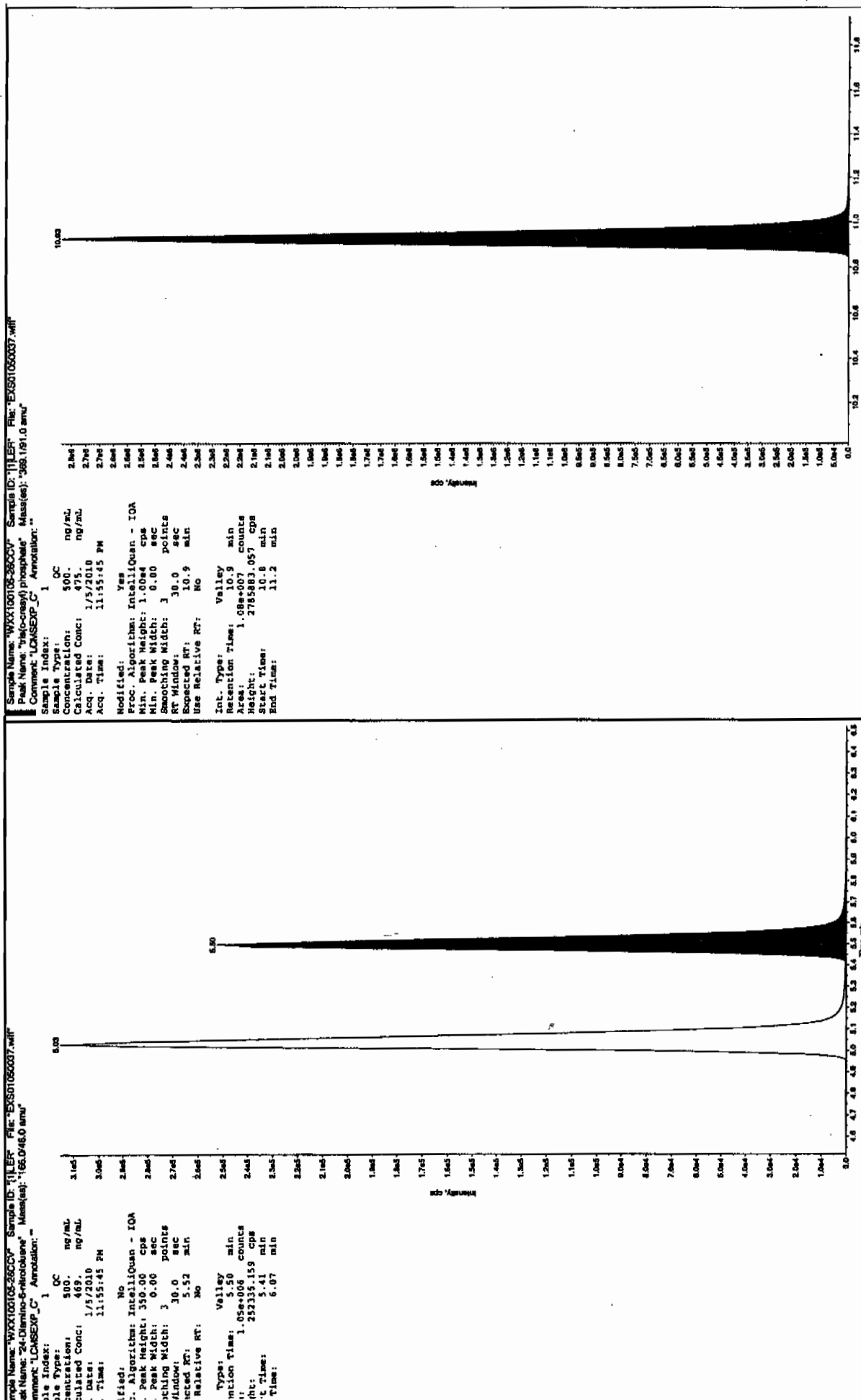


4mm 01/16/11

3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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



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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050039.wiff

Analysis Date: 06-JAN-10 00:27

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	87.7	88	
2,6-Diamino-4-nitrotoluene	100	94.9	95	
3,4-Dinitrotoluene	50	52	104	
3,5-Dinitroaniline	100	108	108	
TATB	100	111	111	
tris(o-cresyl) phosphate	100	93.6	94	

Recovery Limits:

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

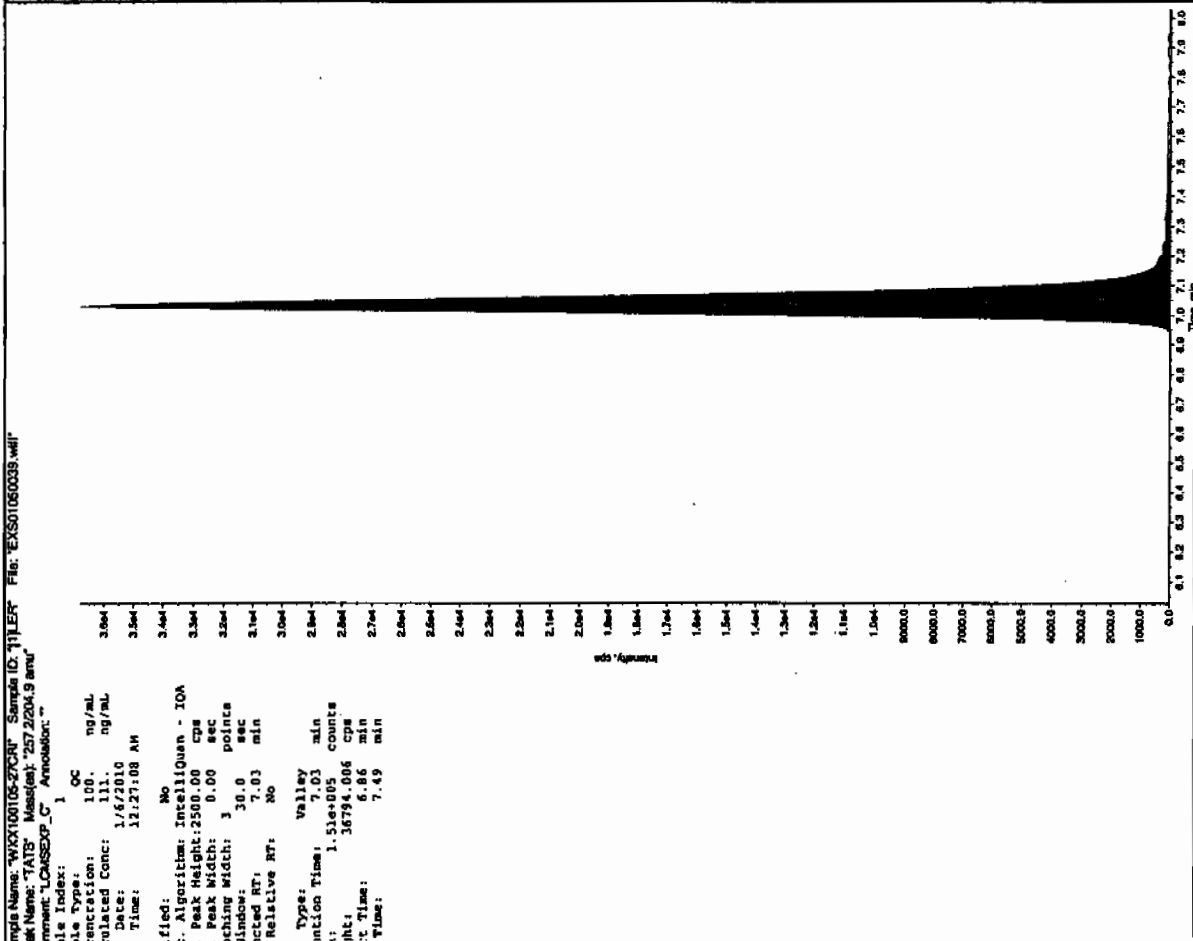
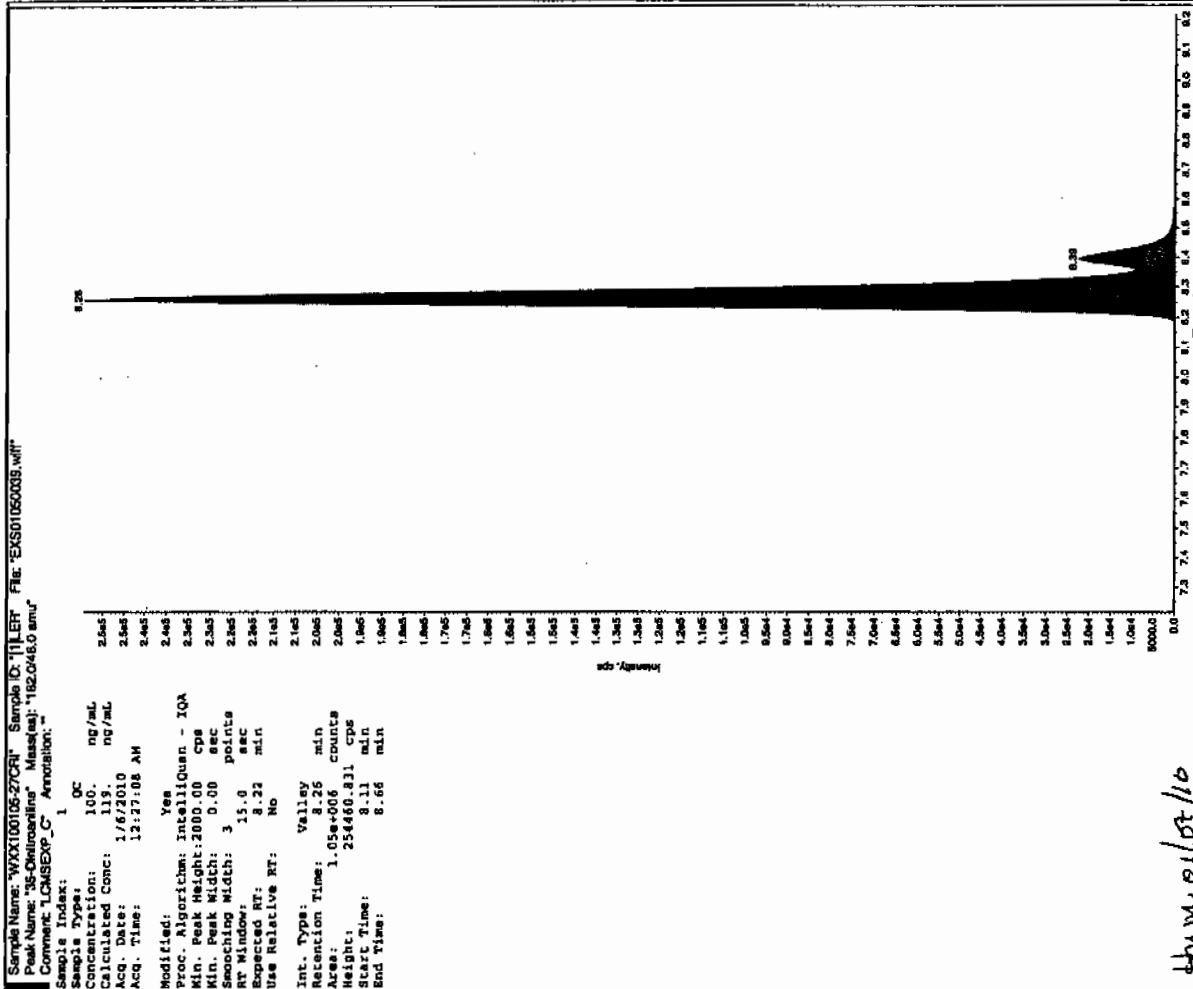
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

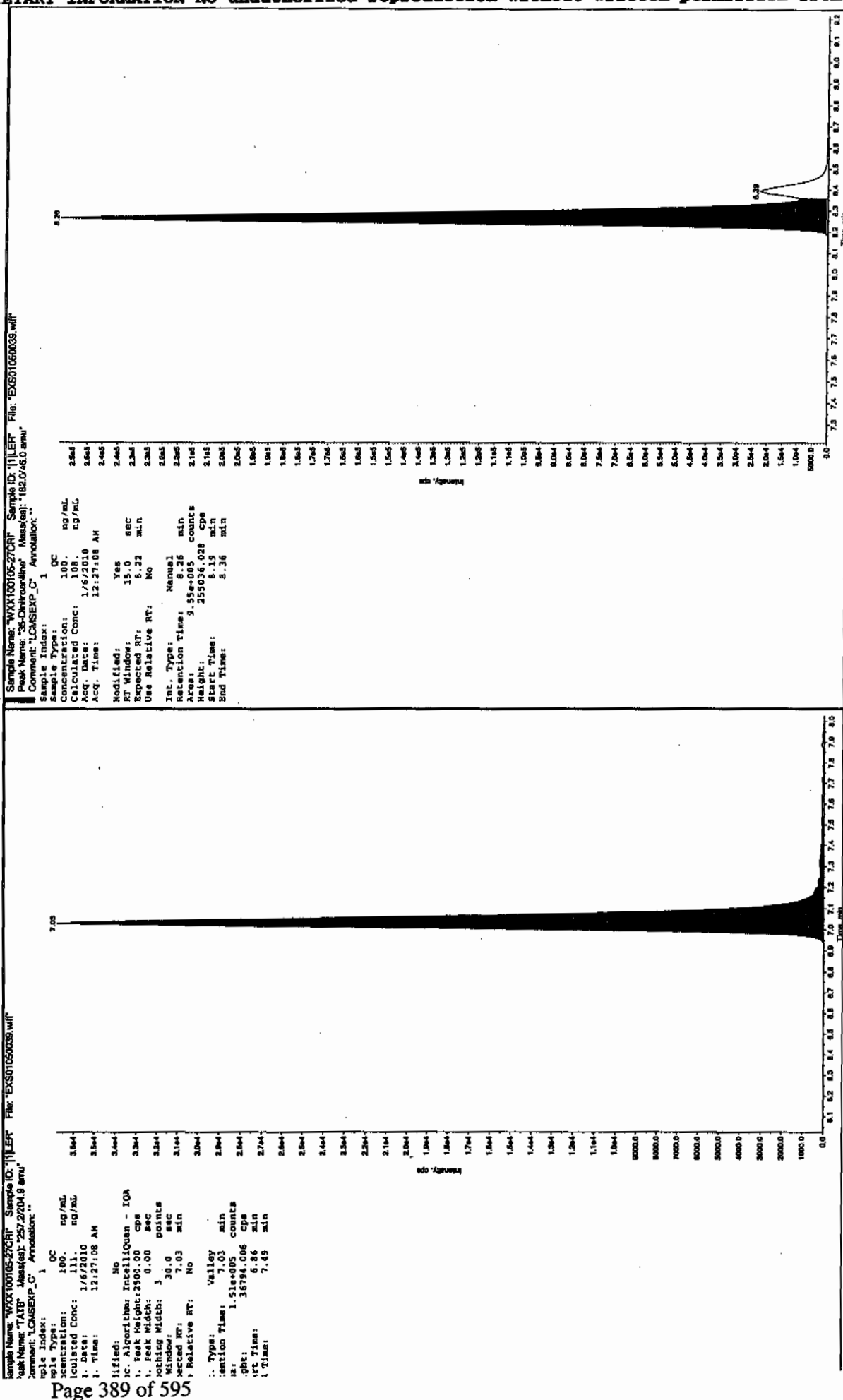
* Value outside of Recovery Limits

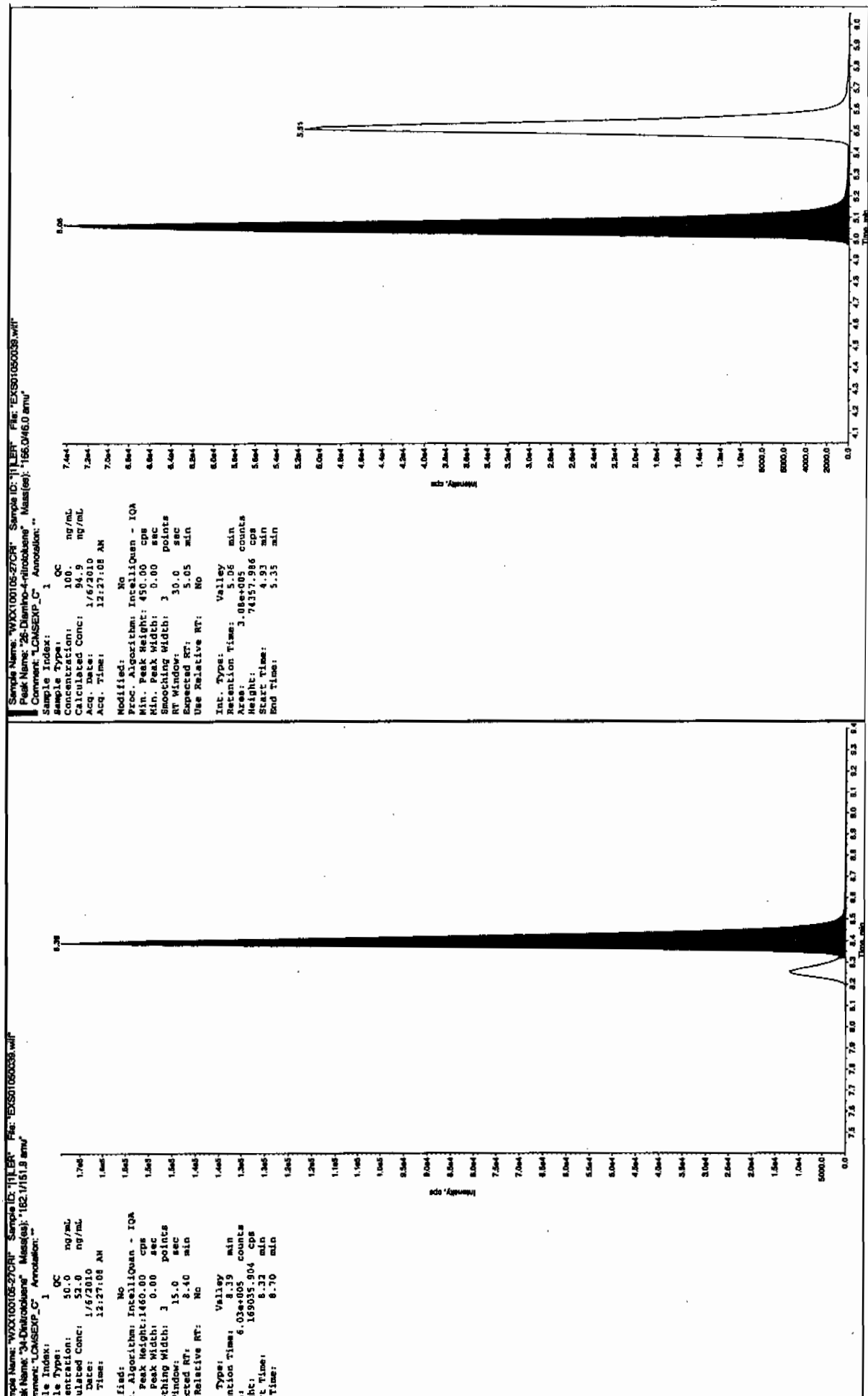
01/11/11
J. L. SOP
GL-0A-E-056



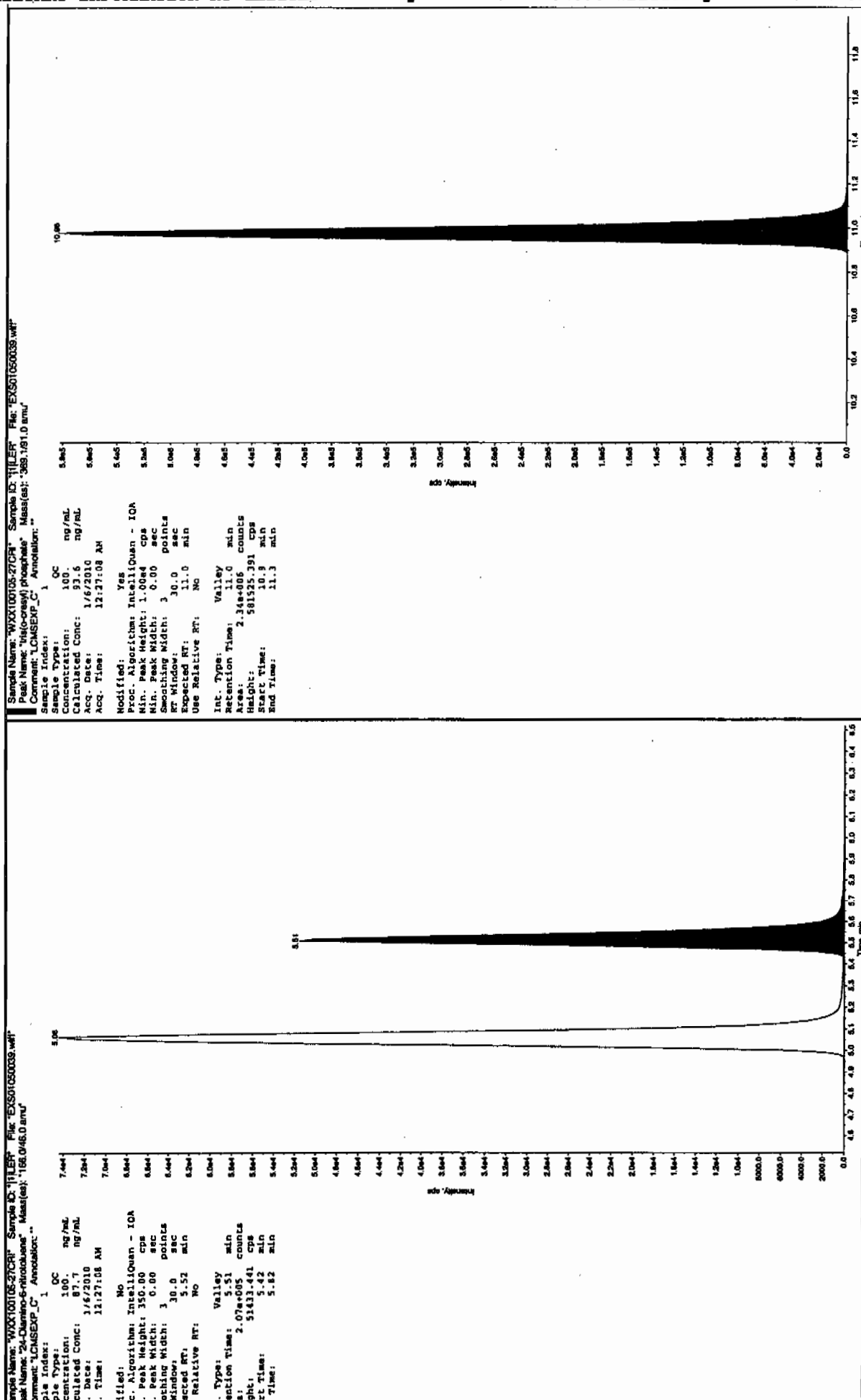
J. L. SOP GL-0A-E-056, Method 8321A-Modified LCMSMS#4

11/11/10
2020
2020





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



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050050.wiff

Analysis Date: 06-JAN-10 03:19

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	479	96	
2,6-Diamino-4-nitrotoluene	500	449	90	
3,4-Dinitrotoluene	250	224	90	
3,5-Dinitroaniline	500	515	103	
TATB	500	537	107	
tris(o-cresyl) phosphate	500	476	95	

Recovery Limits:

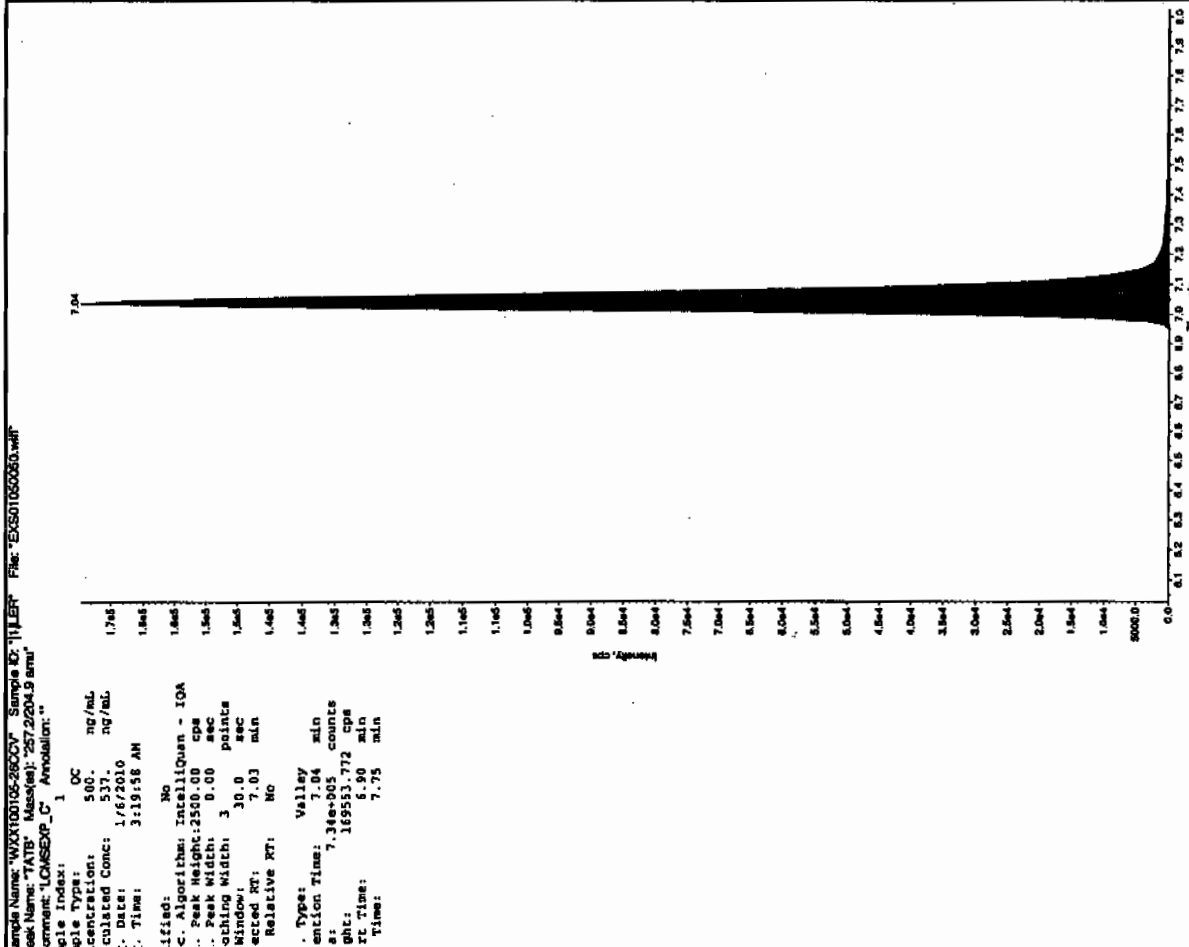
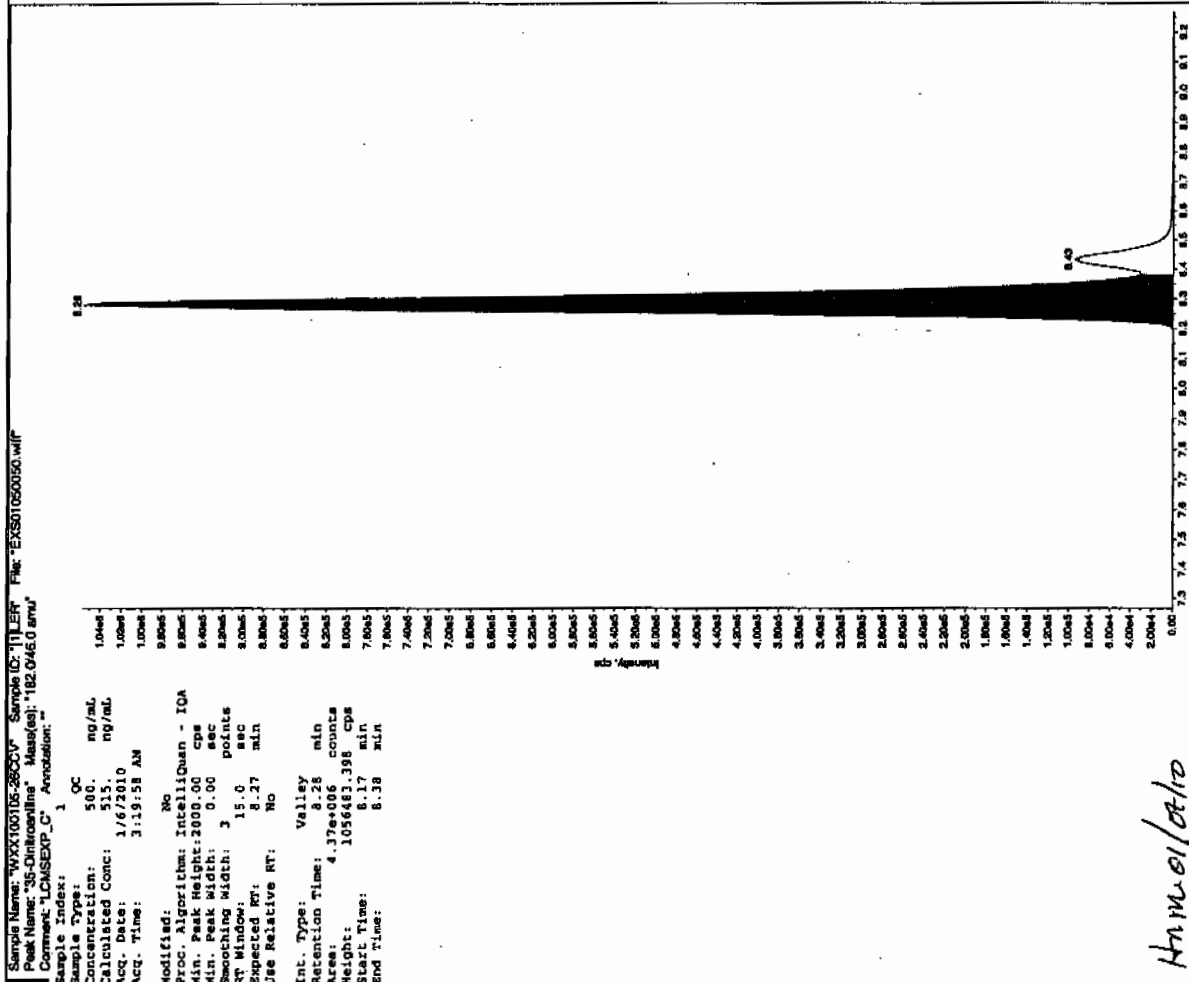
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

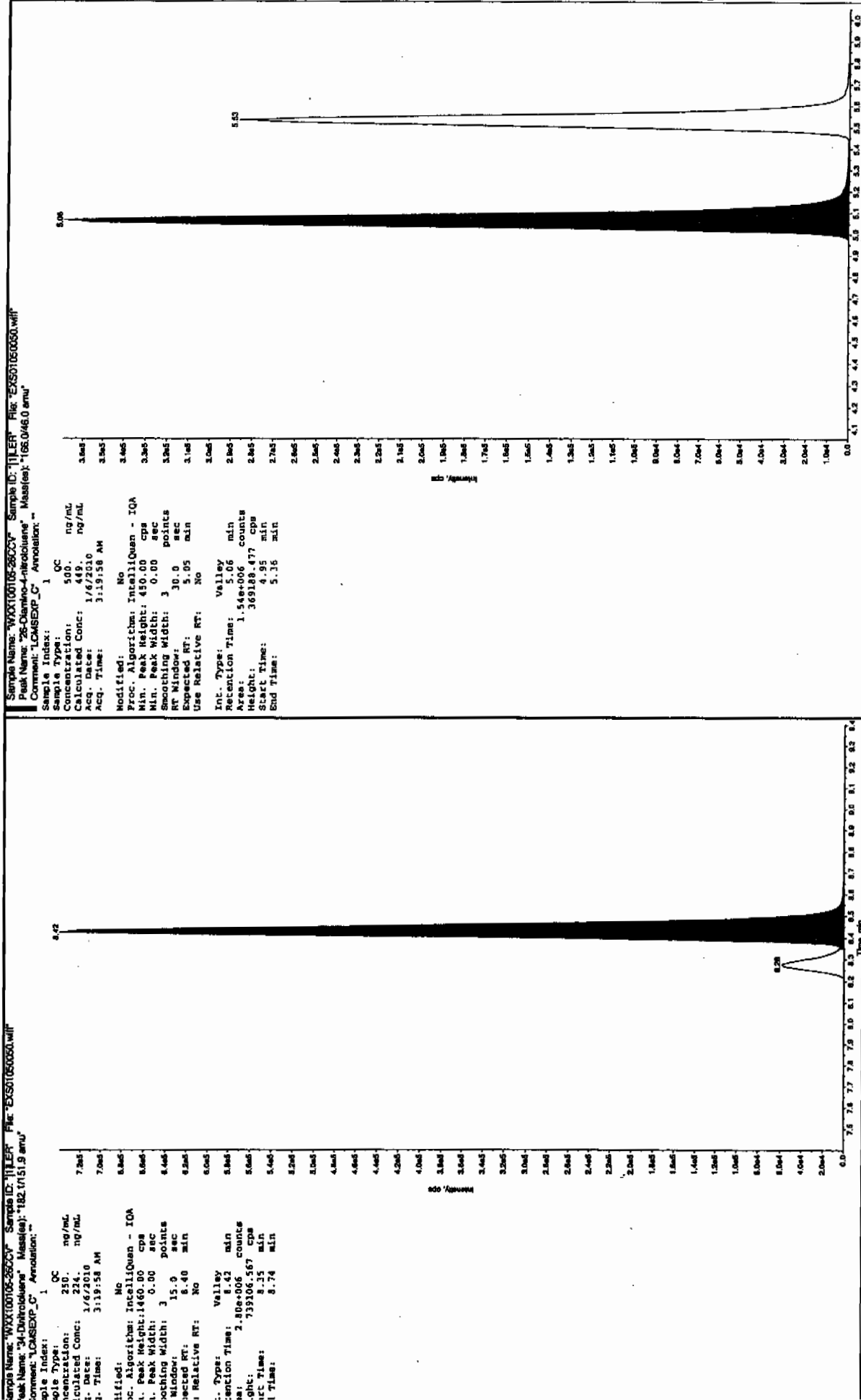
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

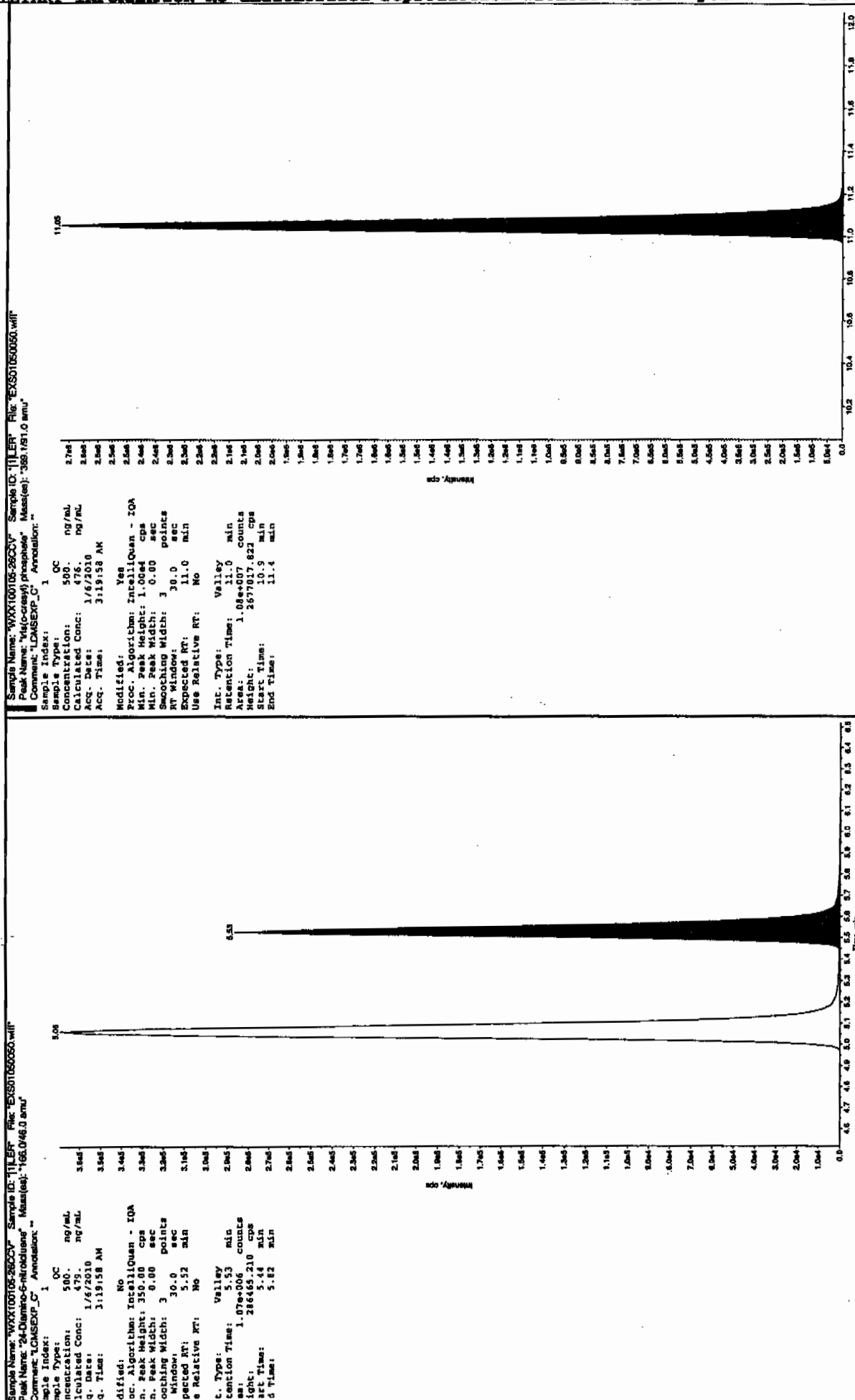
2/11/10
J. J. J.



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



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



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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050052.wiff

Analysis Date: 06-JAN-10 03:51

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	80.6	81	
2,6-Diamino-4-nitrotoluene	100	86.8	87	
3,4-Dinitrotoluene	50	52	104	
3,5-Dinitroaniline	100	105	105	
TATB	100	107	107	
tris(o-cresyl) phosphate	100	97	97	

Recovery Limits:

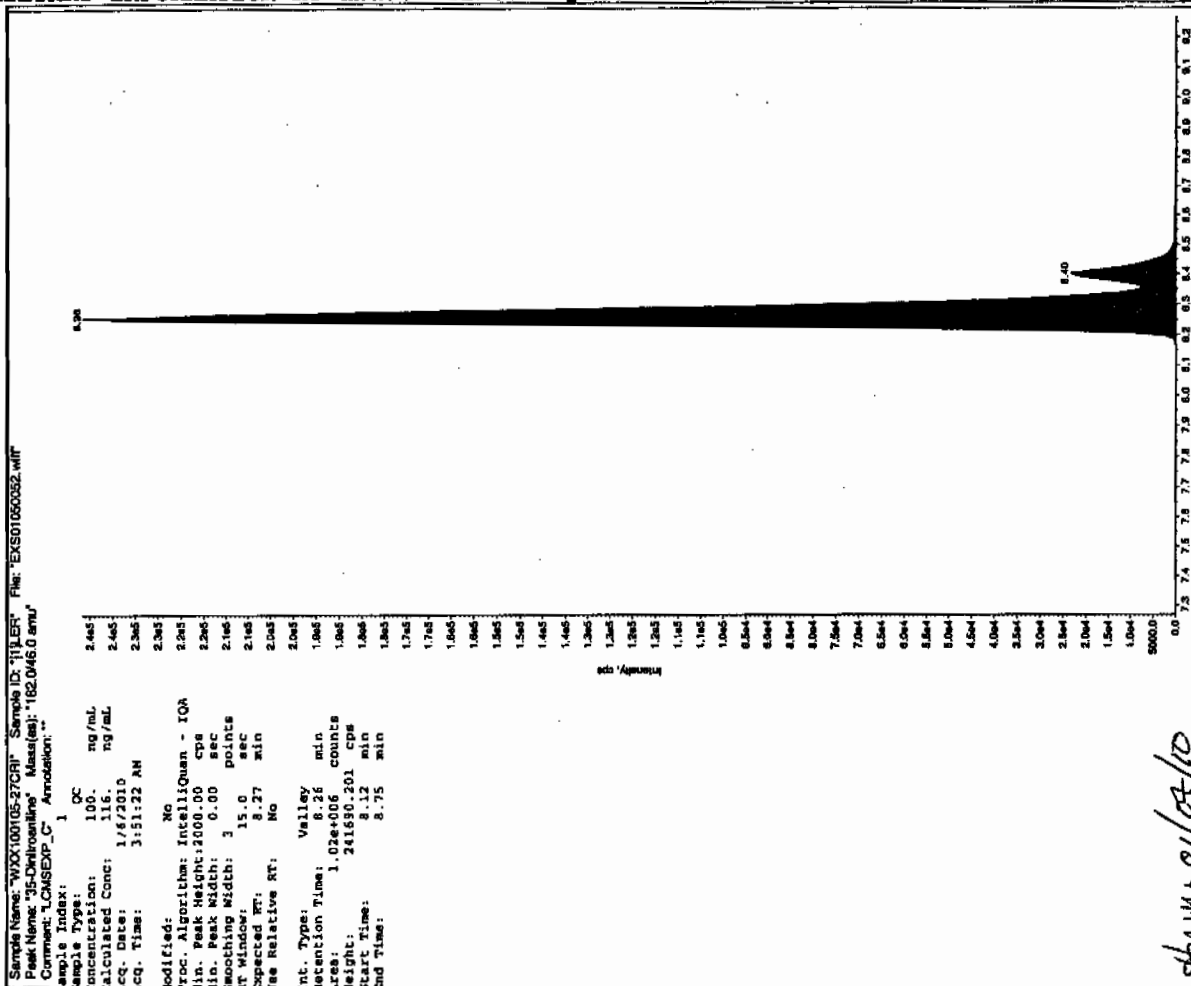
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

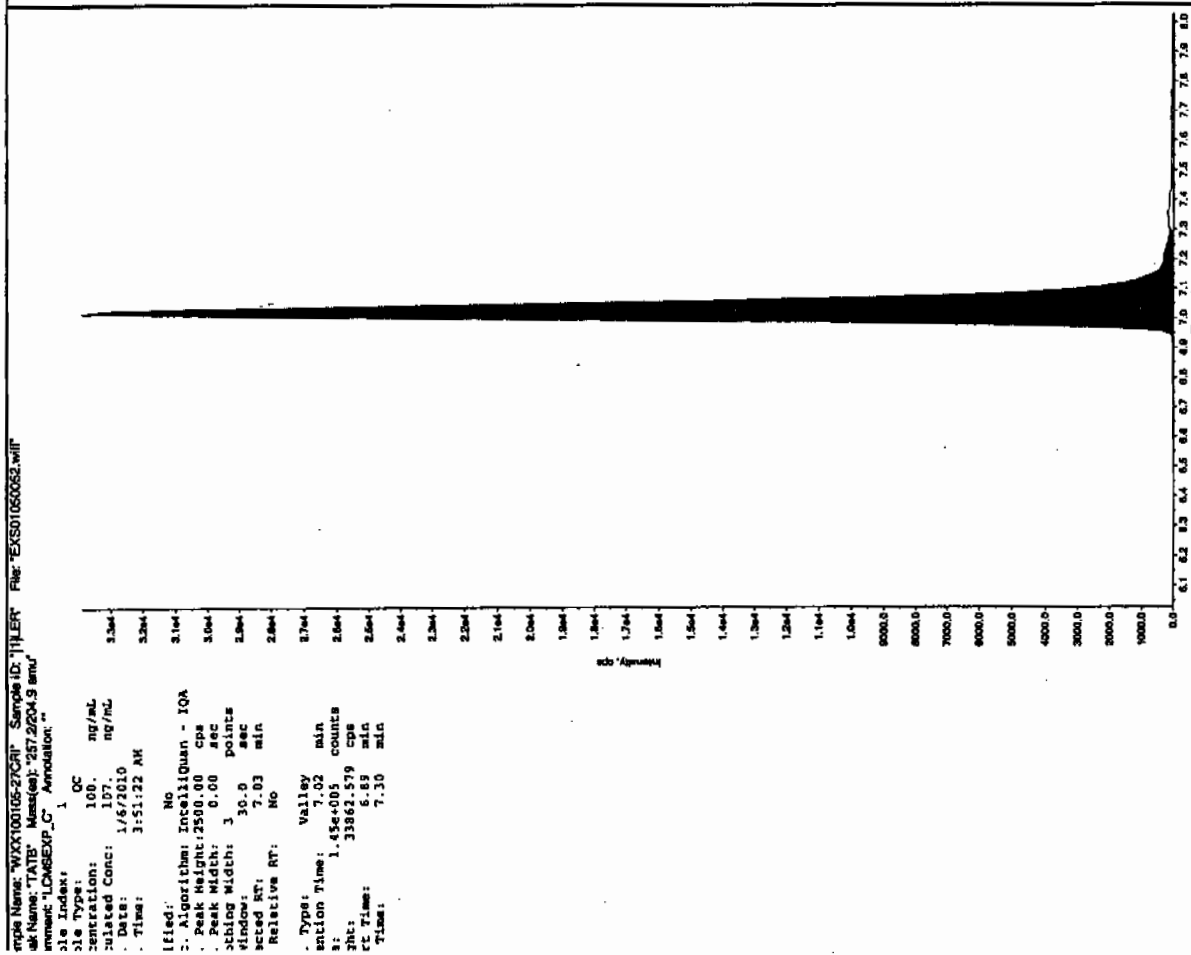
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before
17/11/10

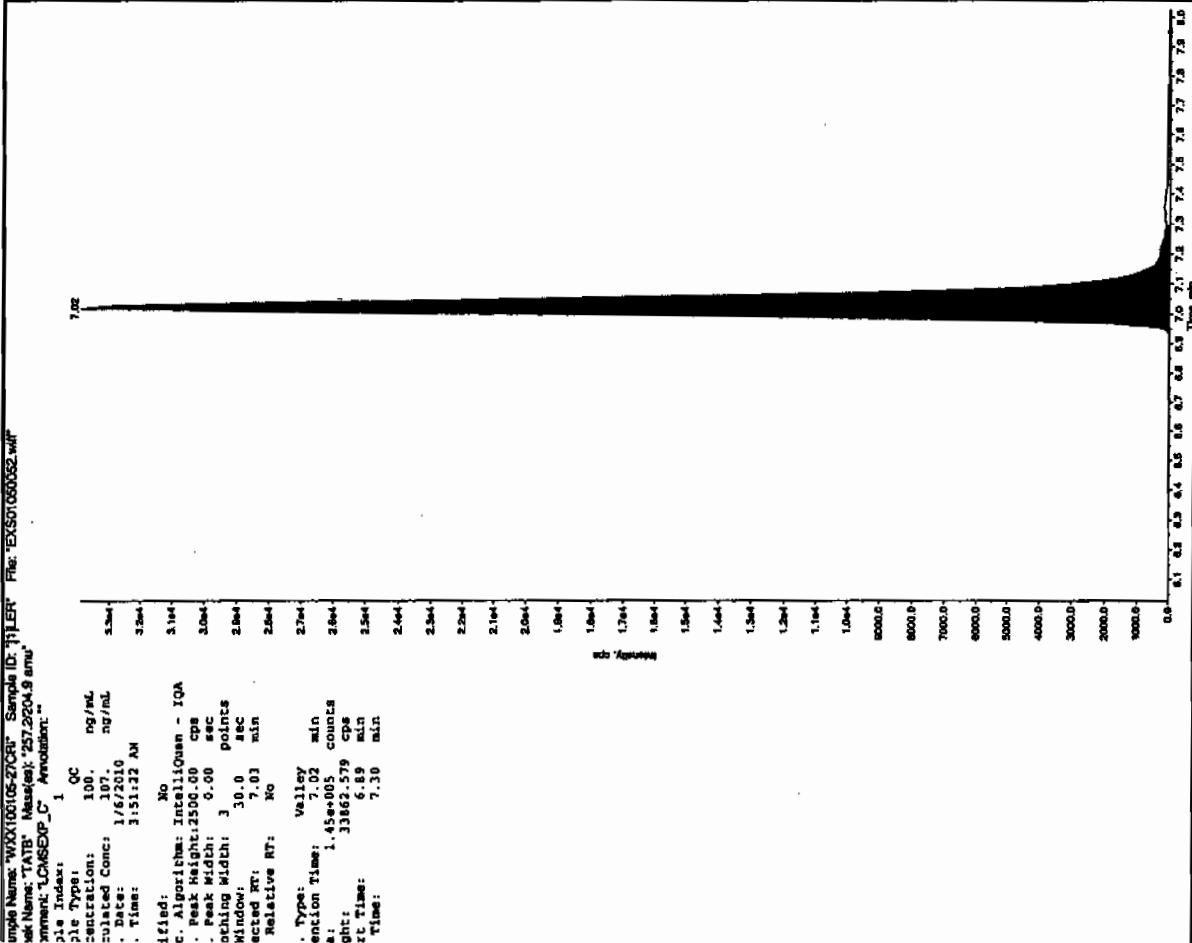
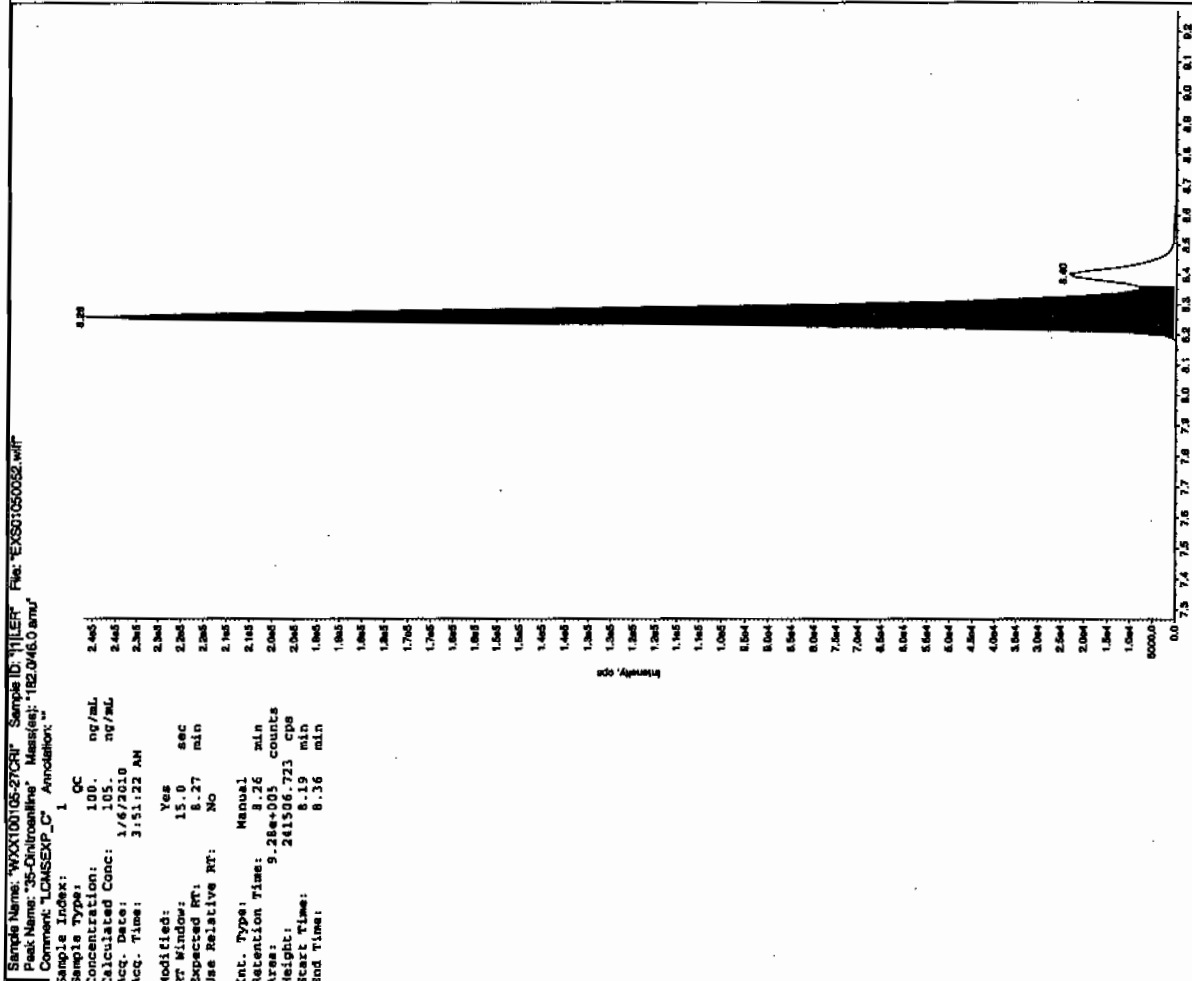


show 01/07/10

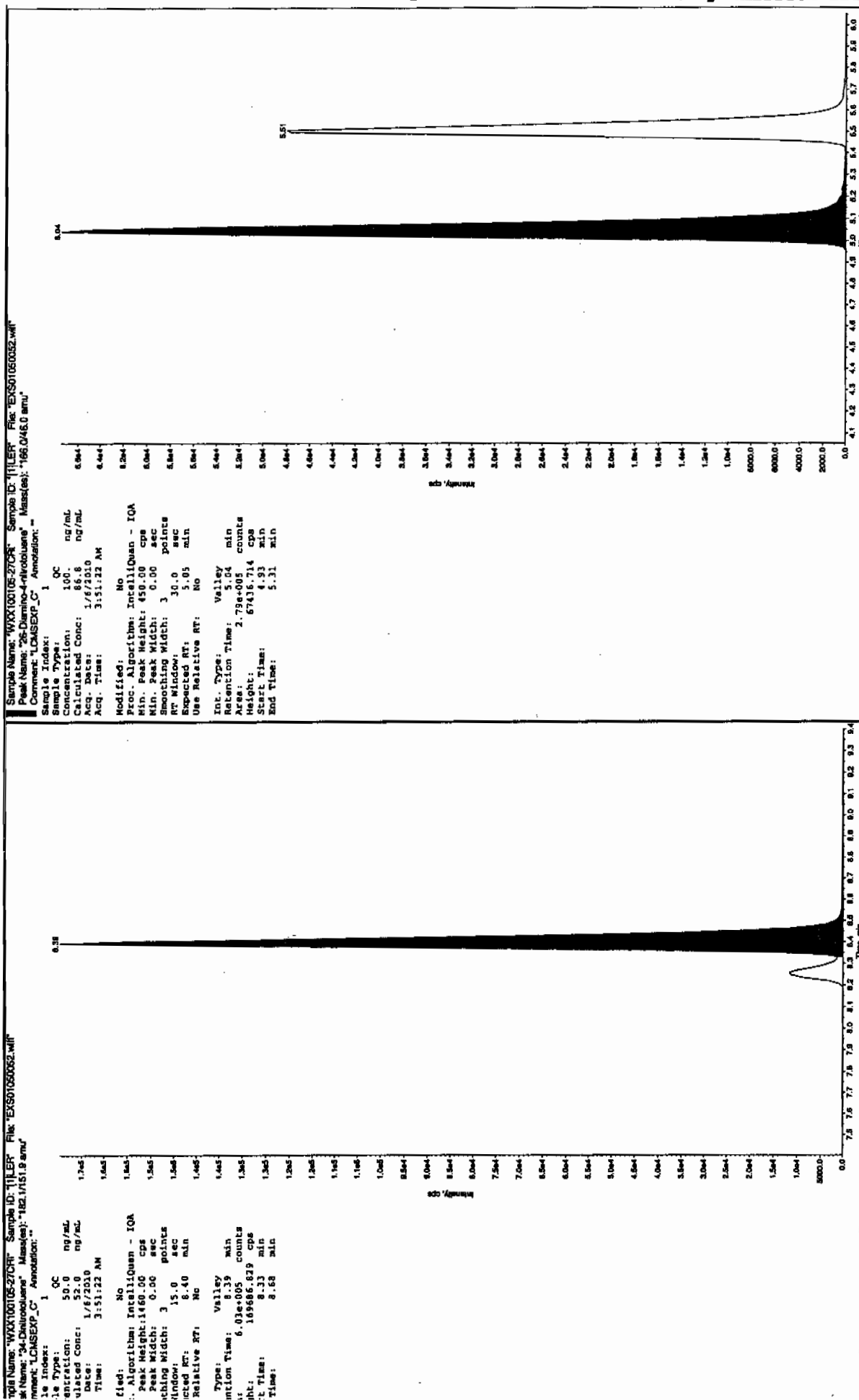


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

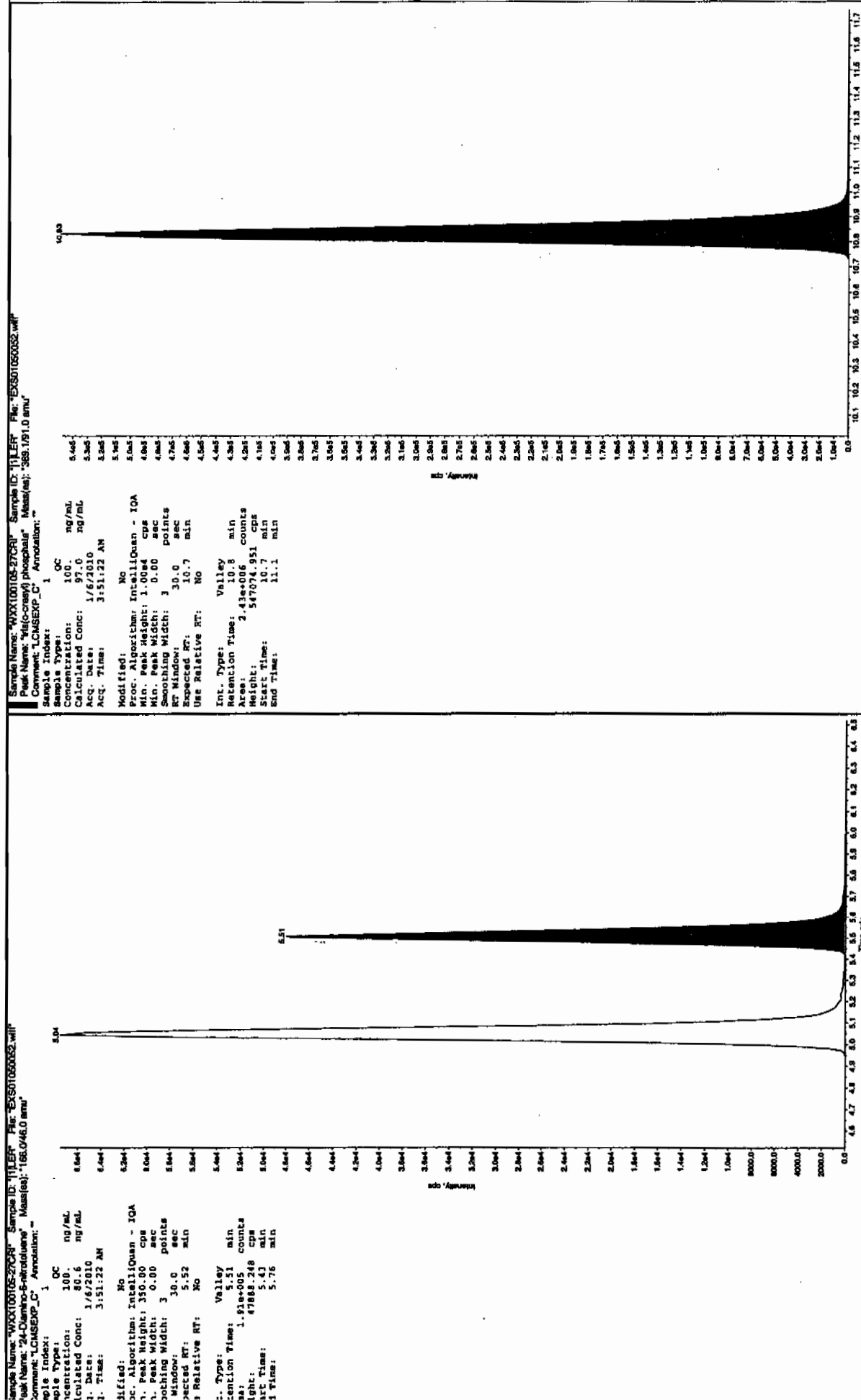
1/3/10
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EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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



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

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050063.wiff

Analysis Date: 06-JAN-10 06:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	494	99	
2,6-Diamino-4-nitrotoluene	500	452	90	
3,4-Dinitrotoluene	250	222	89	
3,5-Dinitroaniline	500	508	102	
TATB	500	542	108	
tris(o-cresyl) phosphate	500	491	98	

Recovery Limits:

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

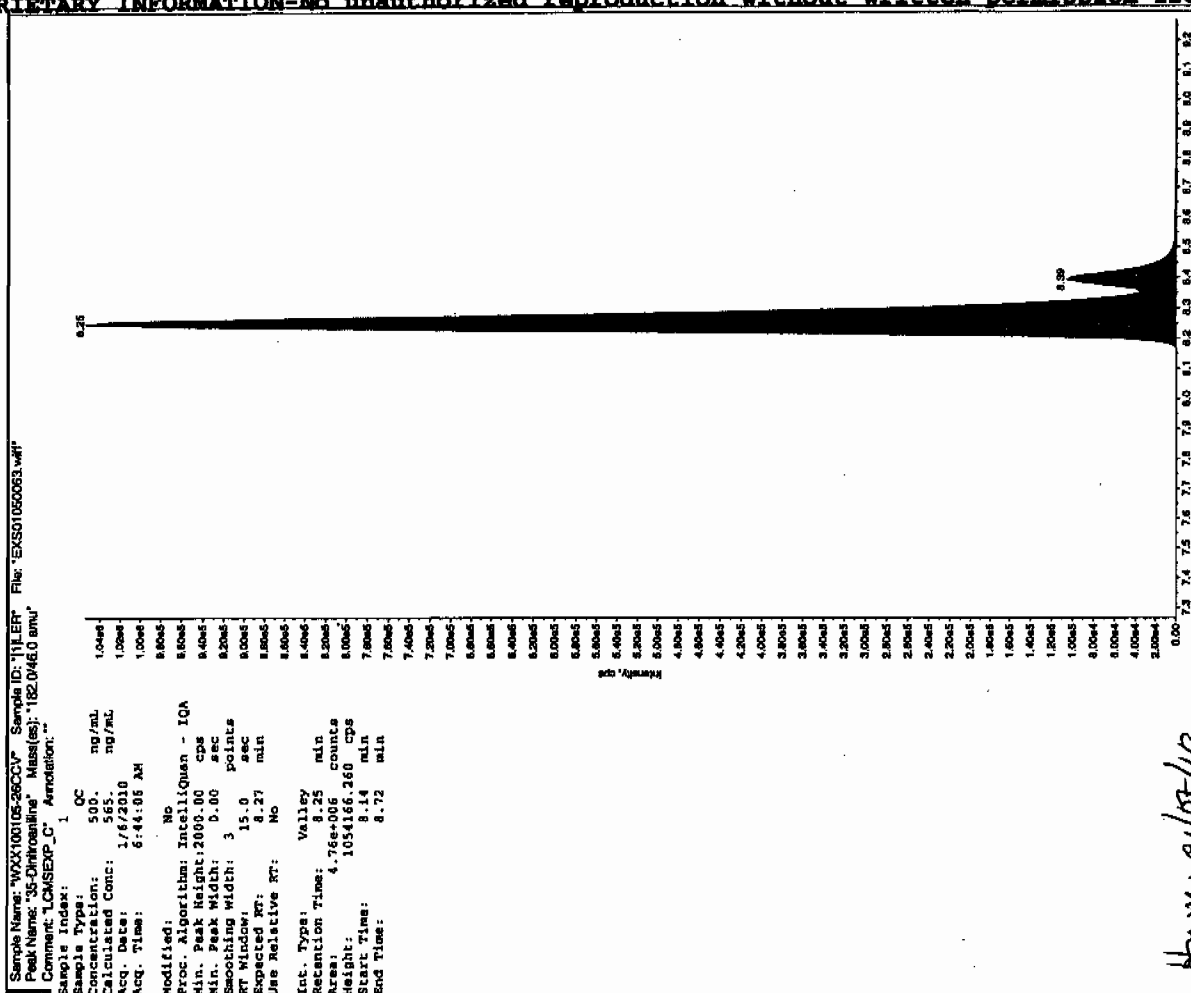
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

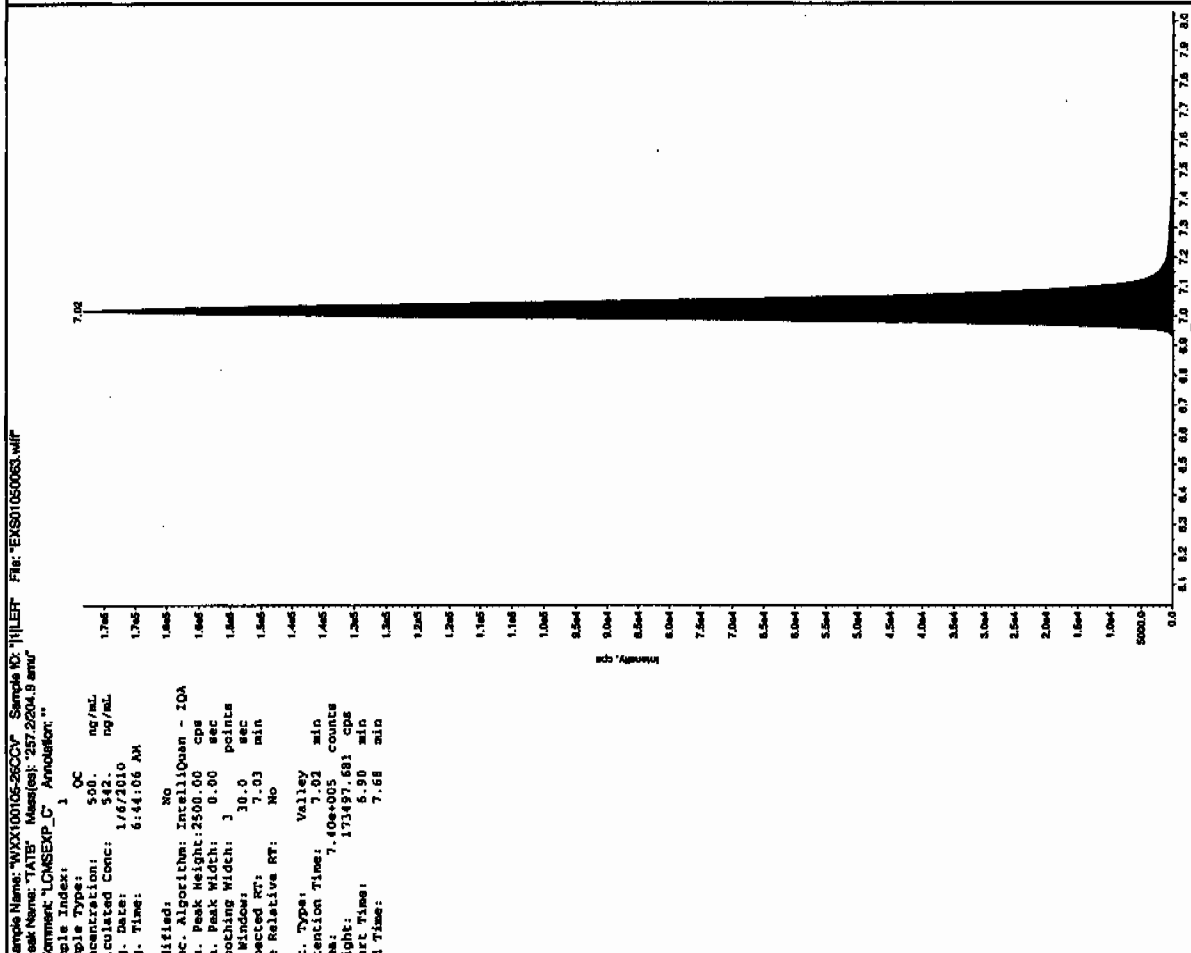
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

before
1/17/10

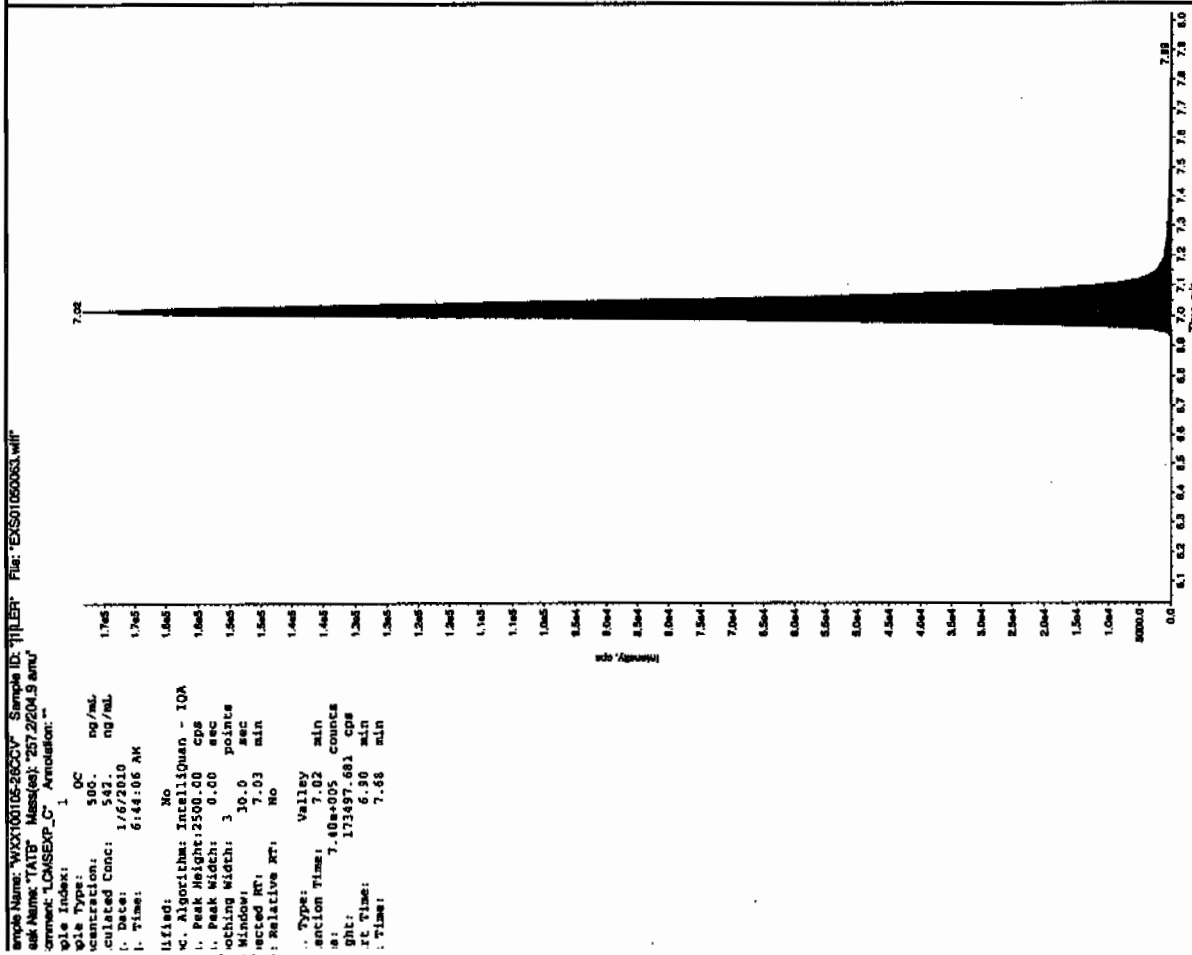
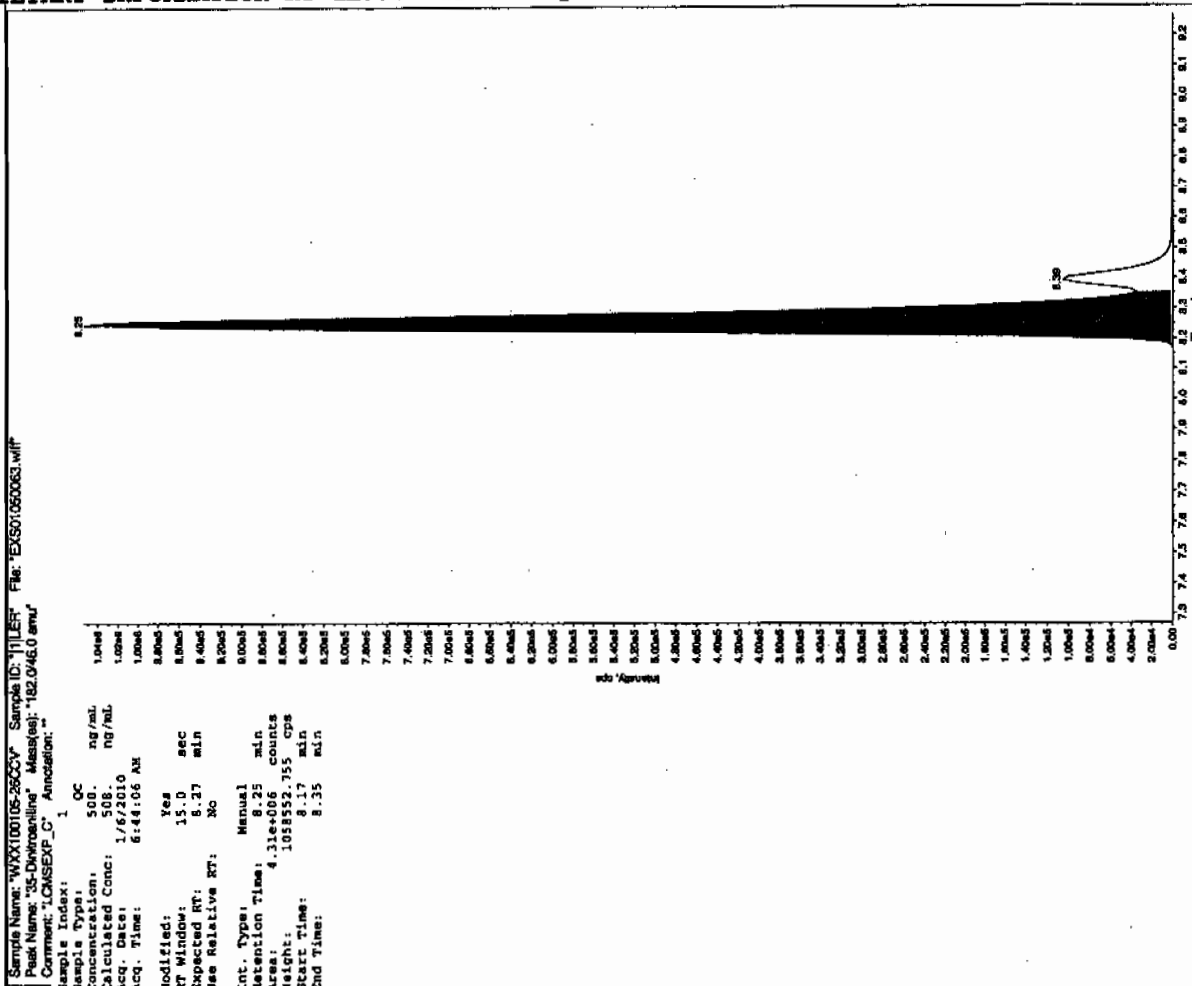


have 01/05/10

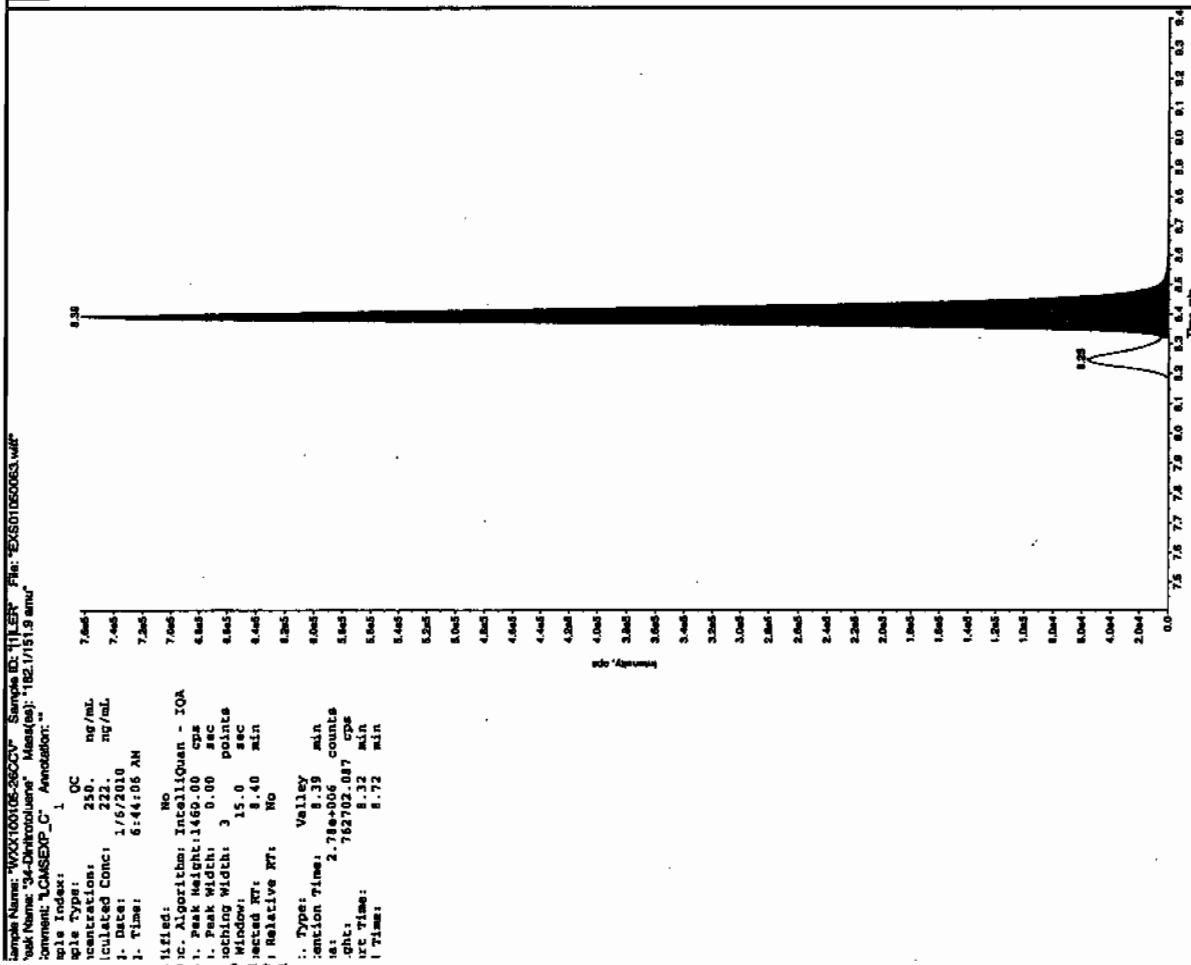
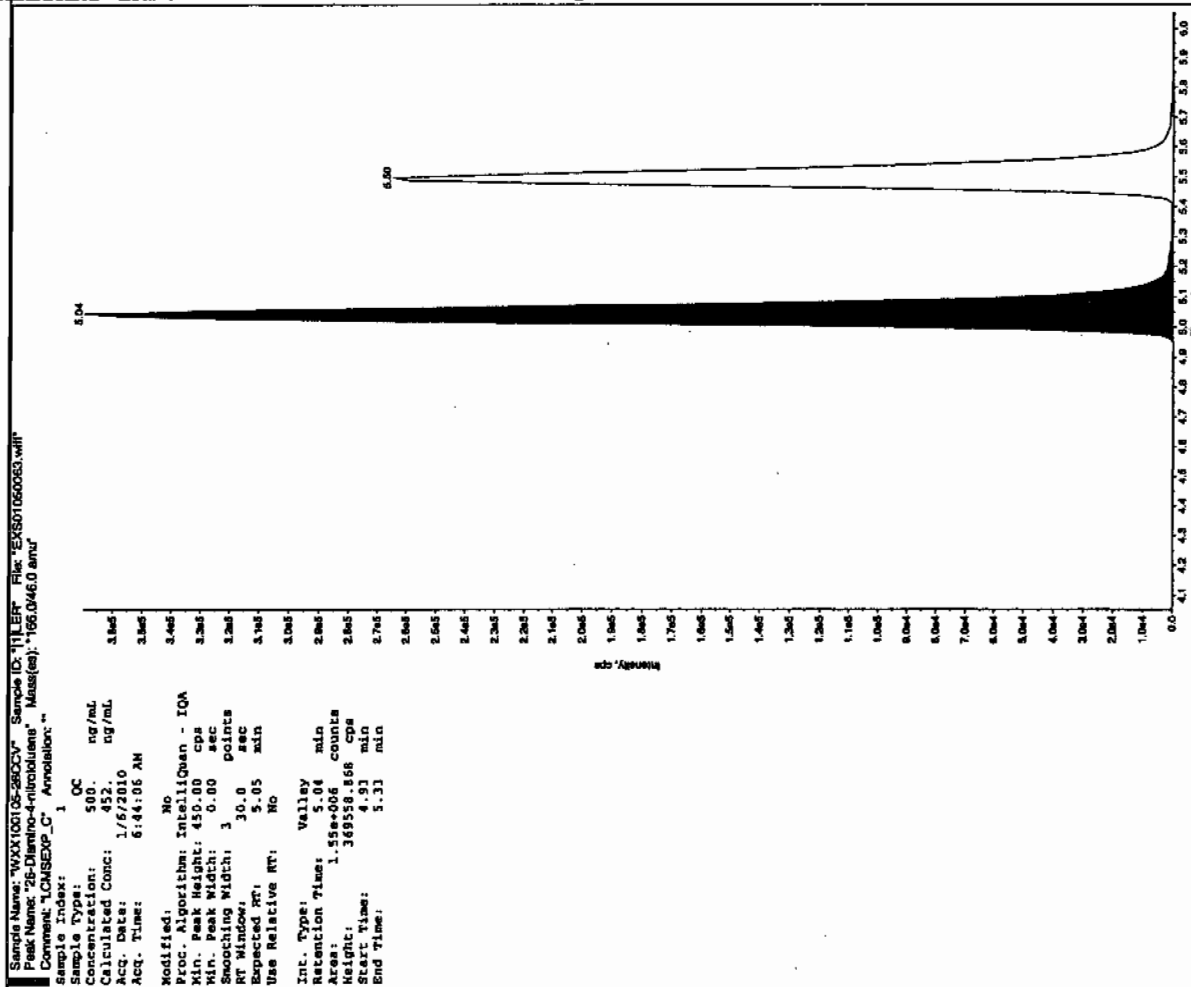


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

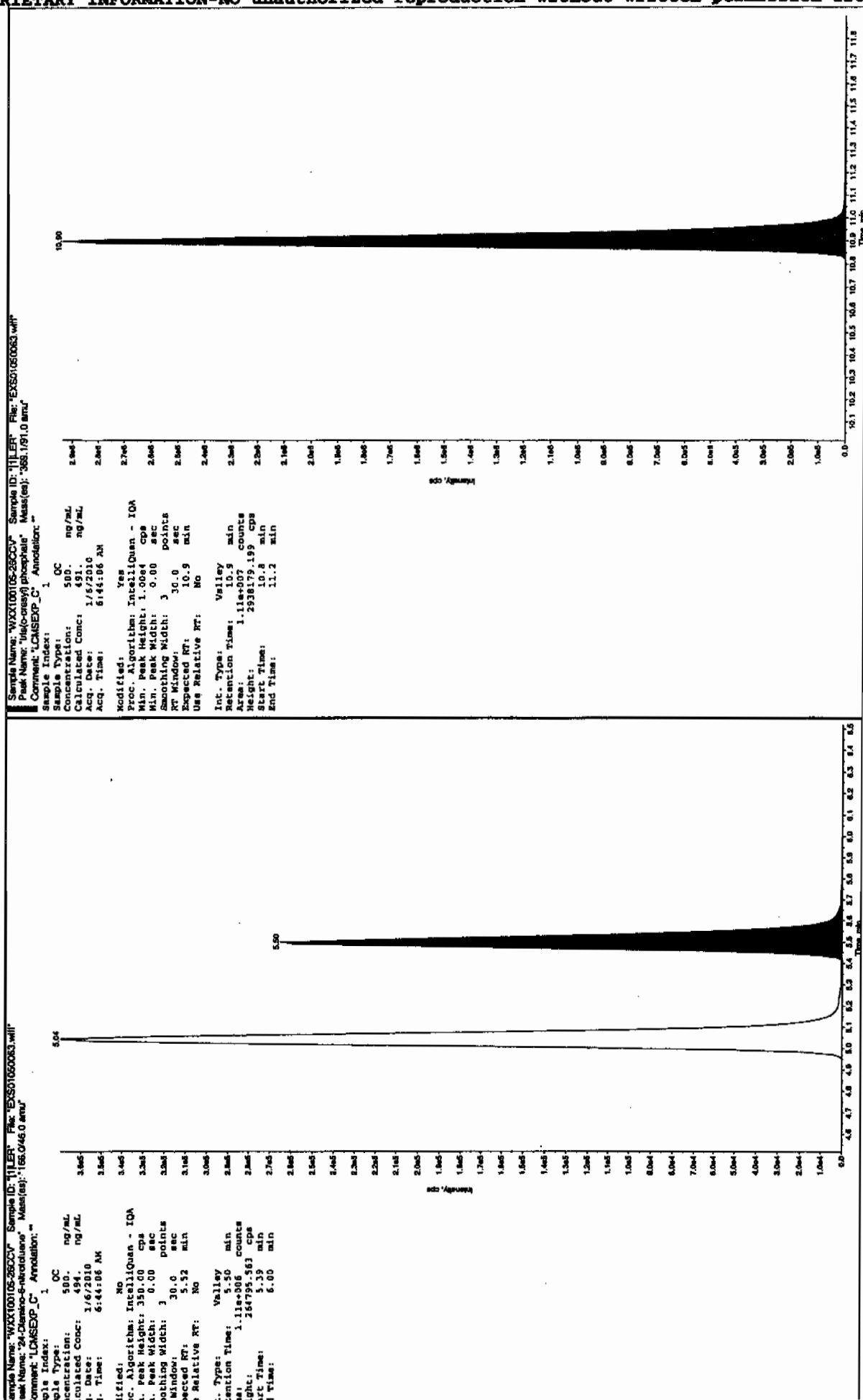
17/11/10
320240



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



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSEXP#4



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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050065.wiff

Analysis Date: 06-JAN-10 07:15

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	82.8	83	
2,6-Diamino-4-nitrotoluene	100	92.7	93	
3,4-Dinitrotoluene	50	48.7	98	
3,5-Dinitroaniline	100	105	105	
TATB	100	110	110	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

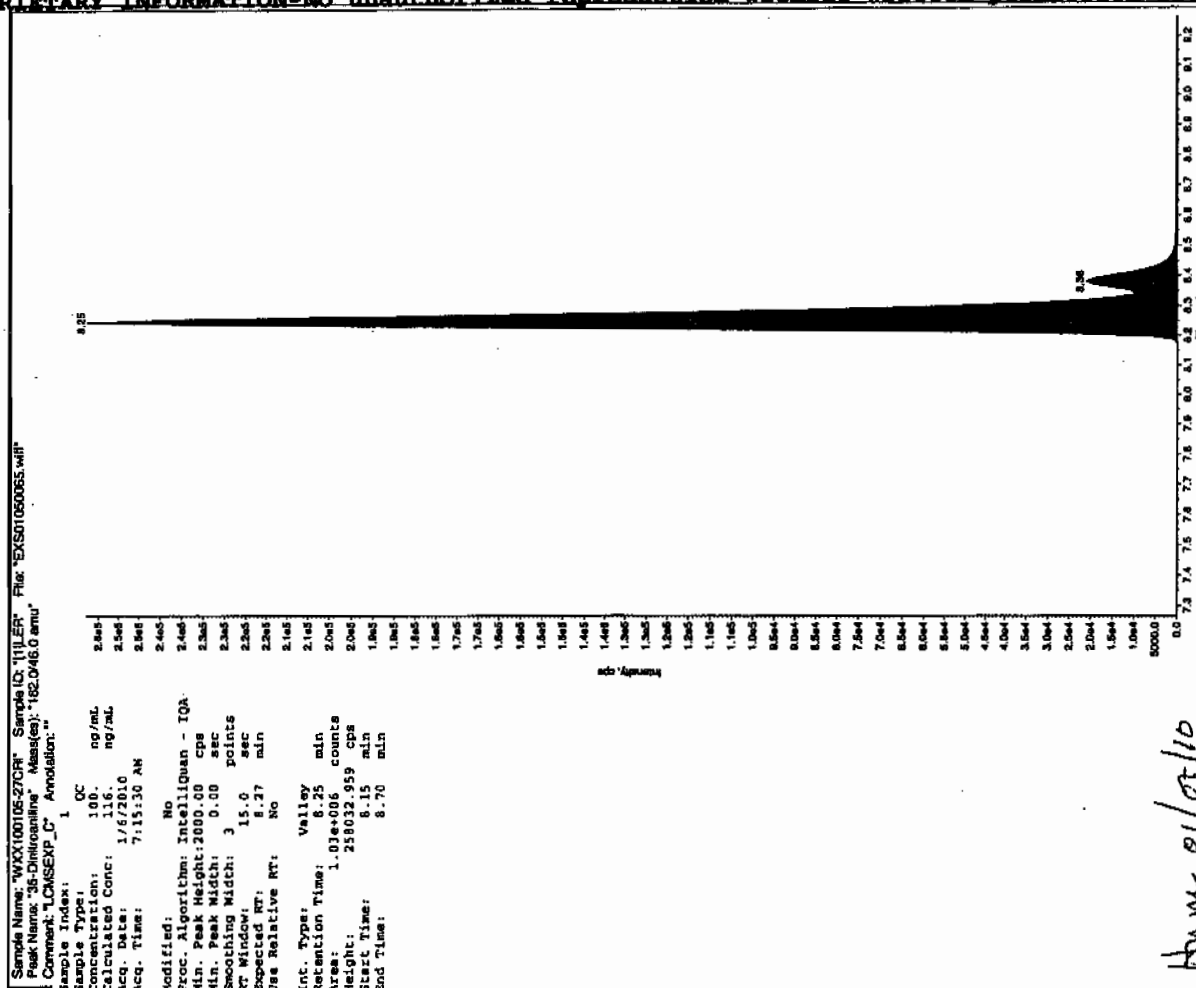
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

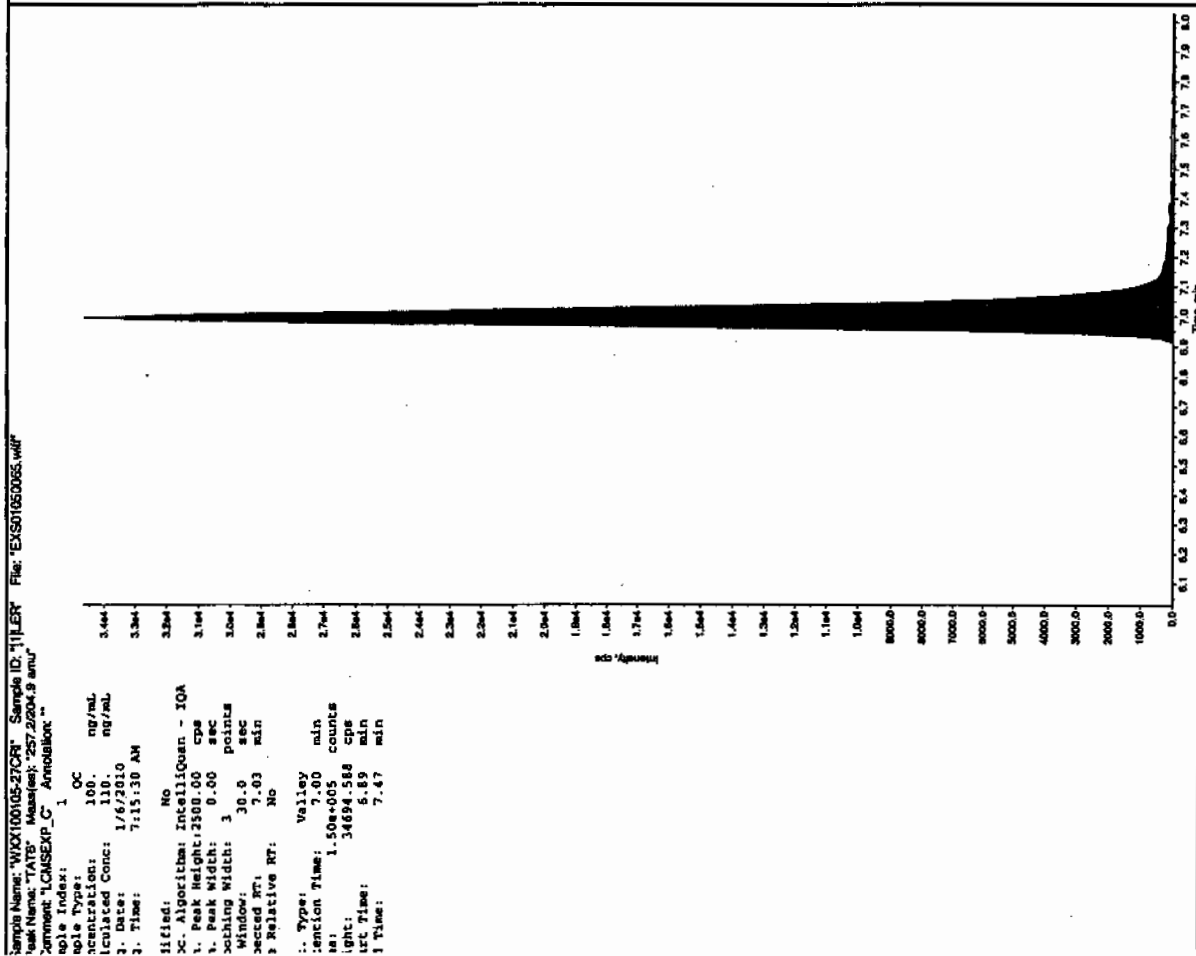
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/17/10
Diane

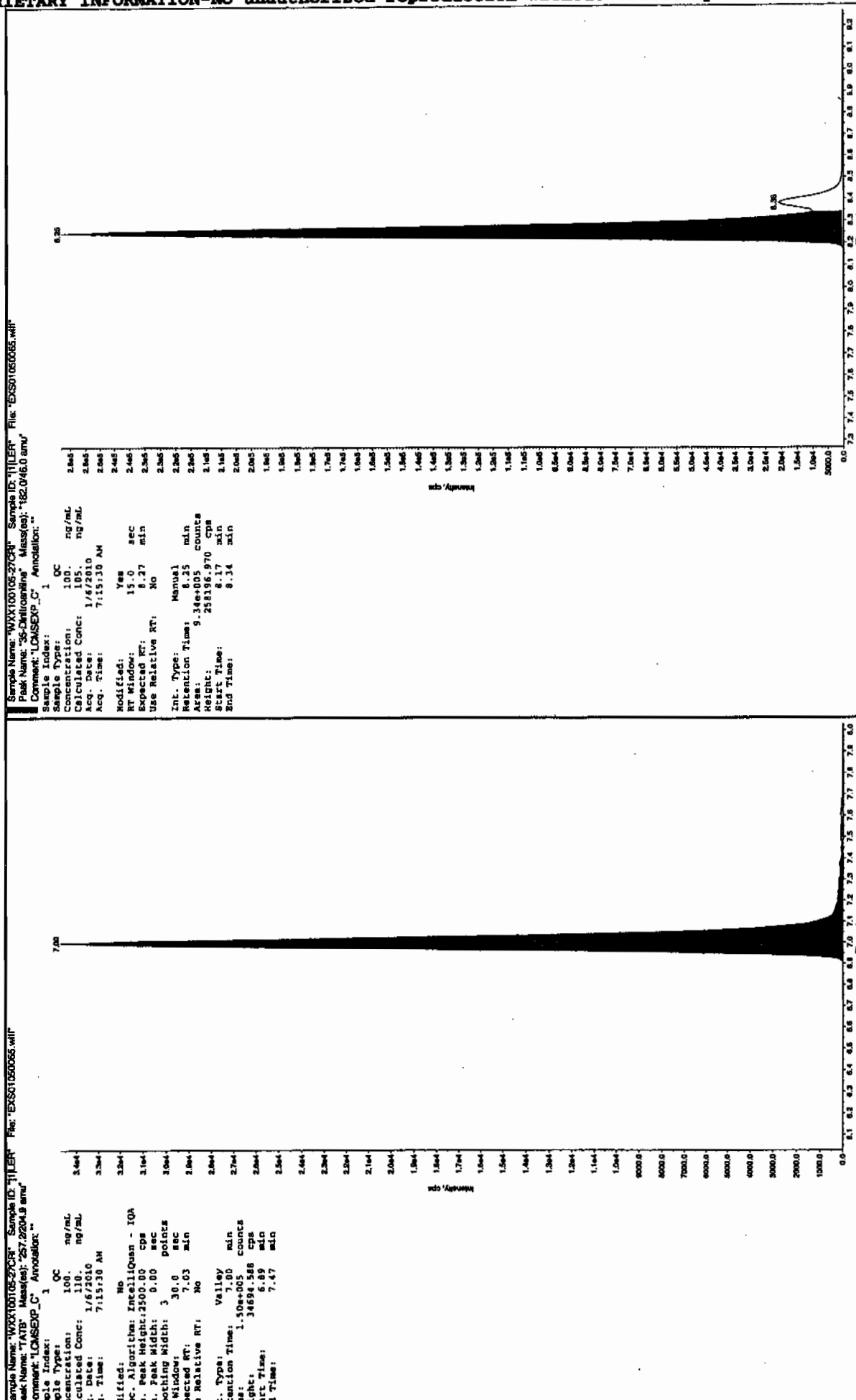


Diane 01/07/10

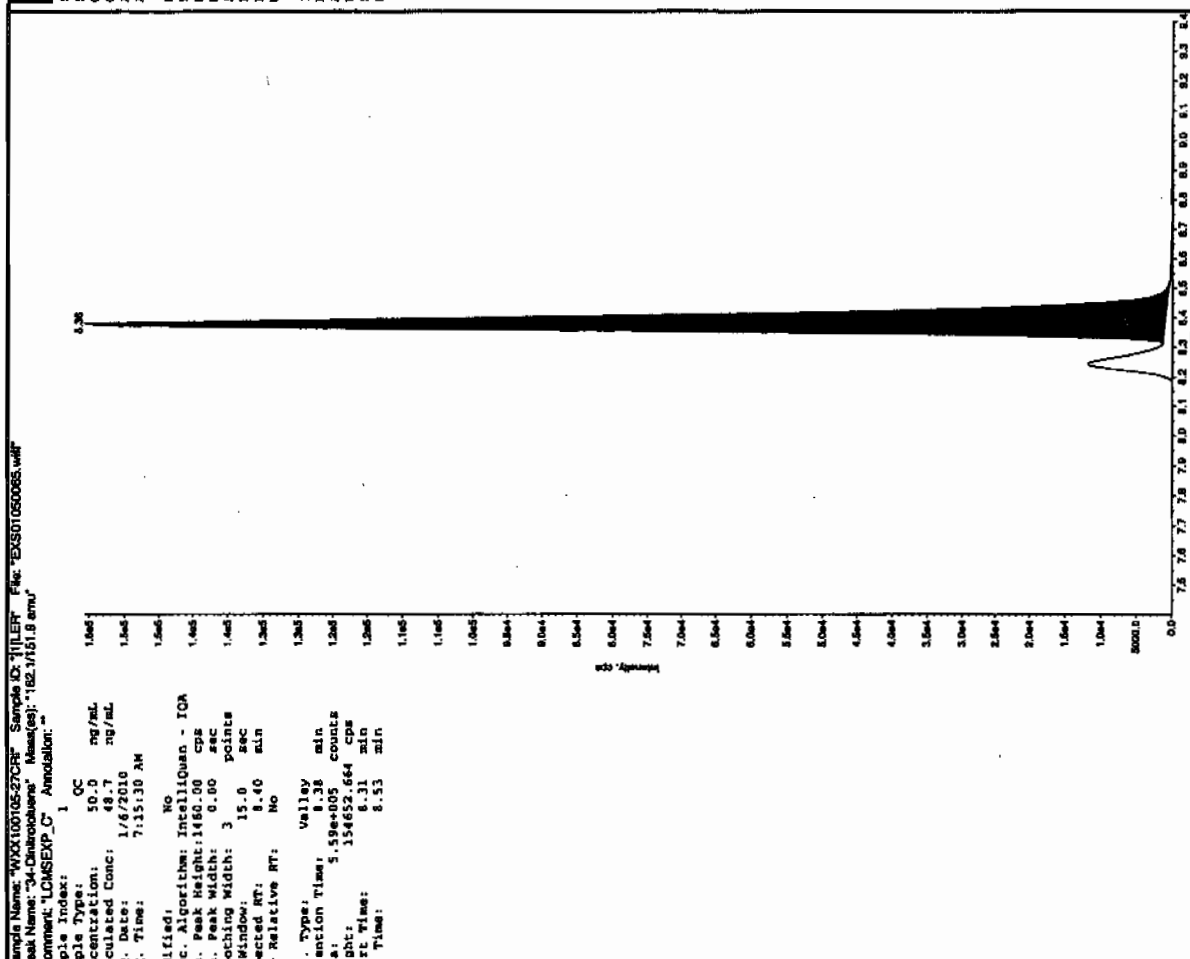
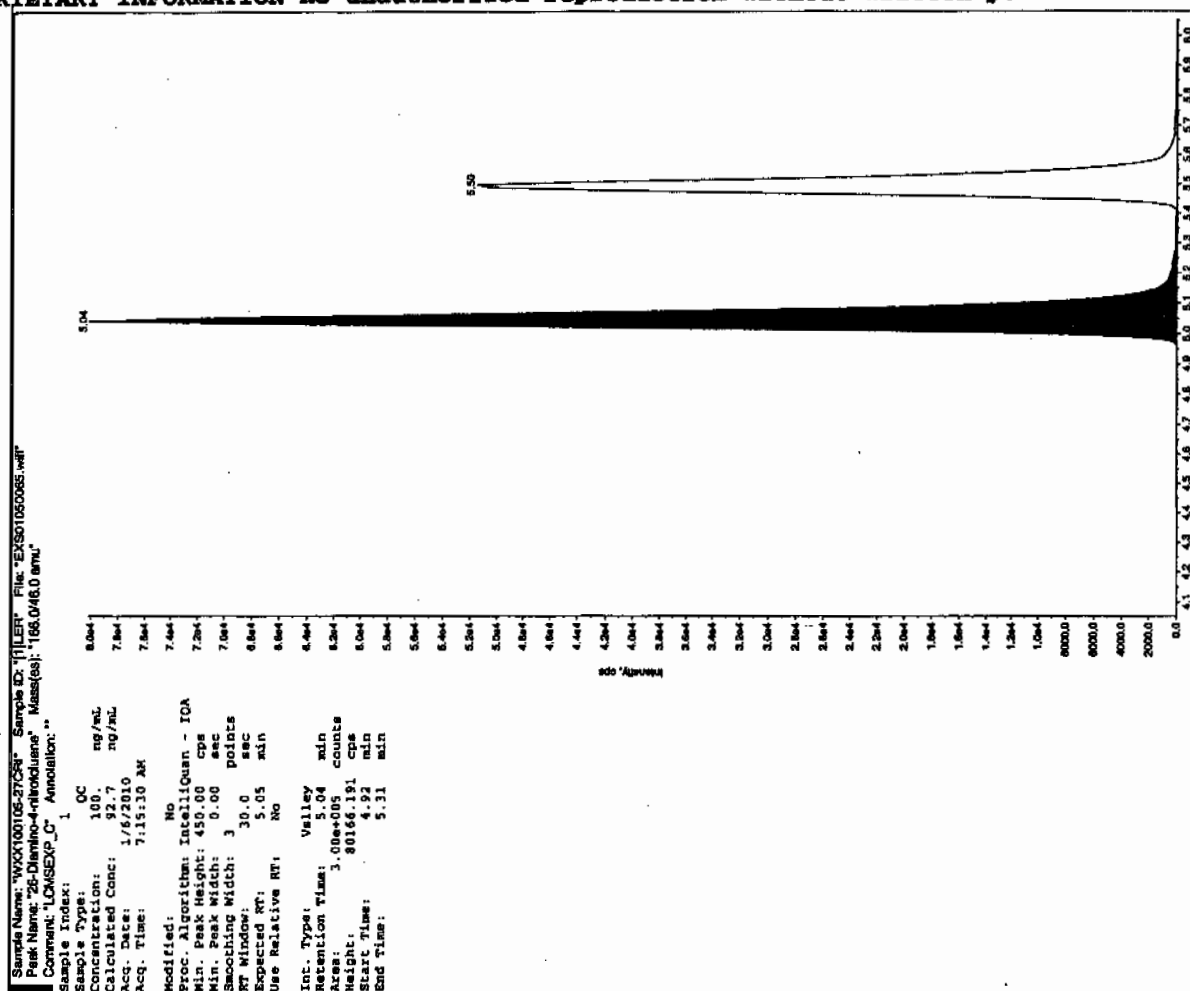


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

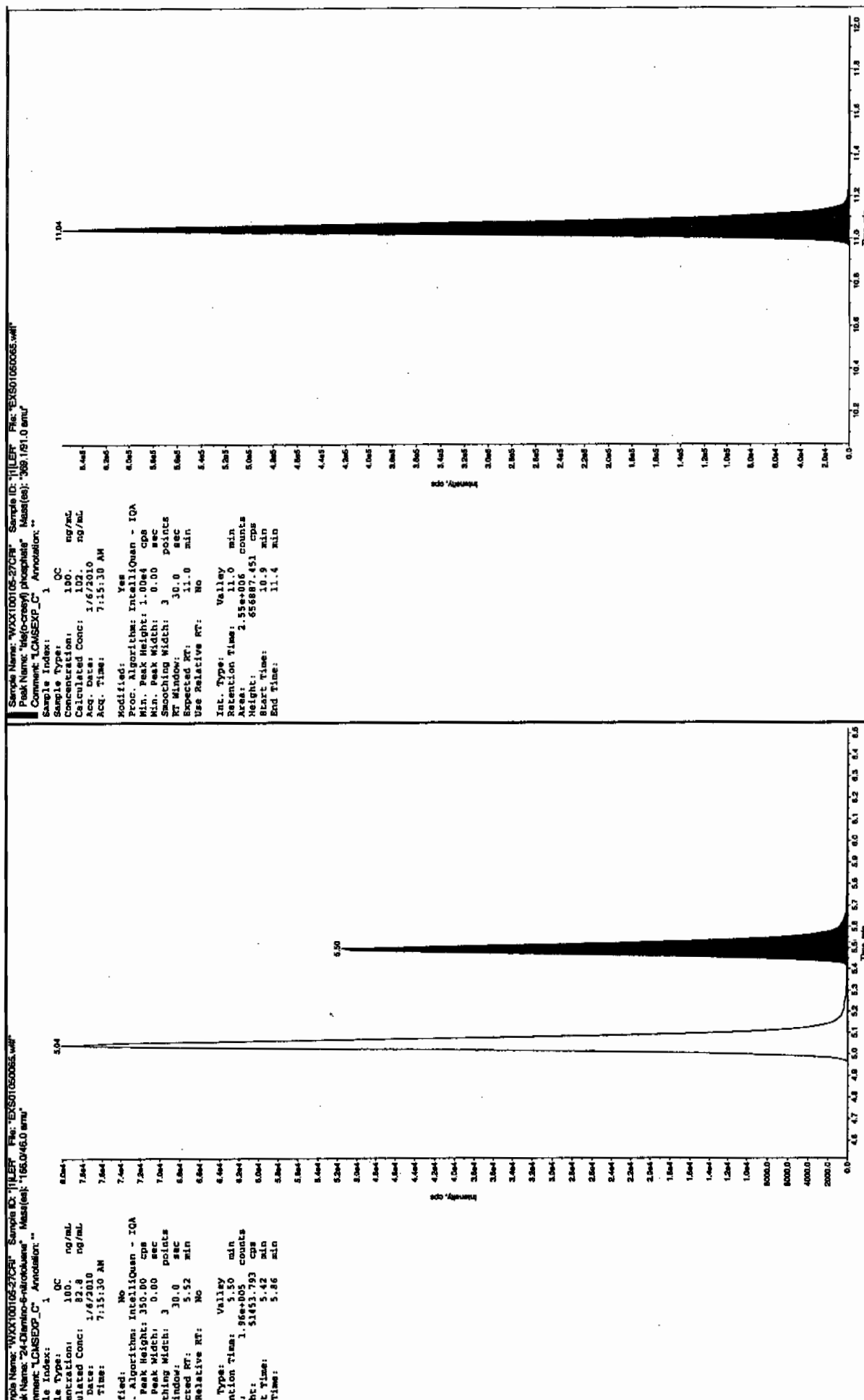
green
1/12/10



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



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



3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050070.wiff

Analysis Date: 06-JAN-10 08:34

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	430	86	
2,6-Diamino-4-nitrotoluene	500	427	85	
3,4-Dinitrotoluene	250	226	90	
3,5-Dinitroaniline	500	521	104	
TATB	500	548	110	
tris(o-cresyl) phosphate	500	484	97	

Recovery Limits:

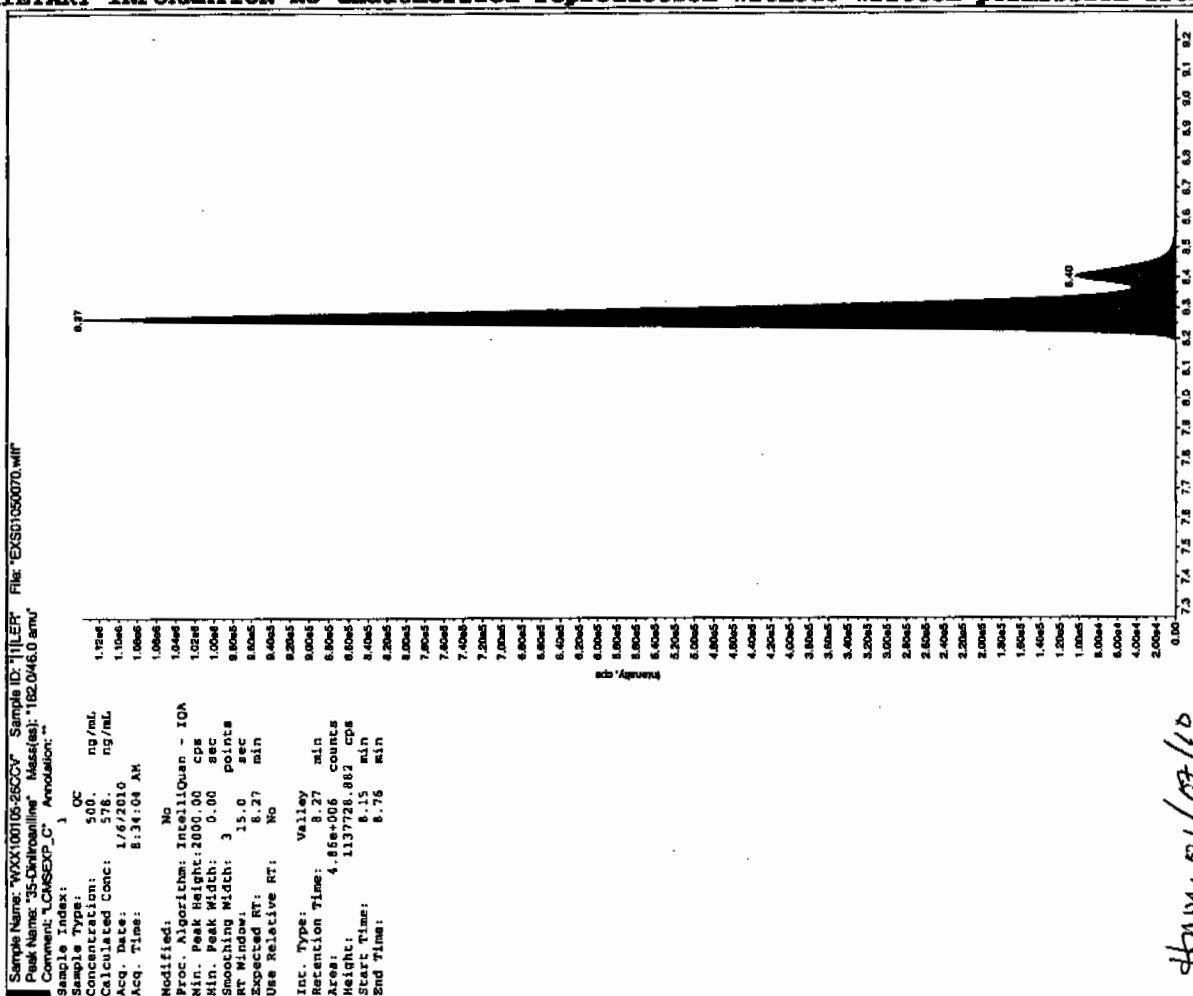
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

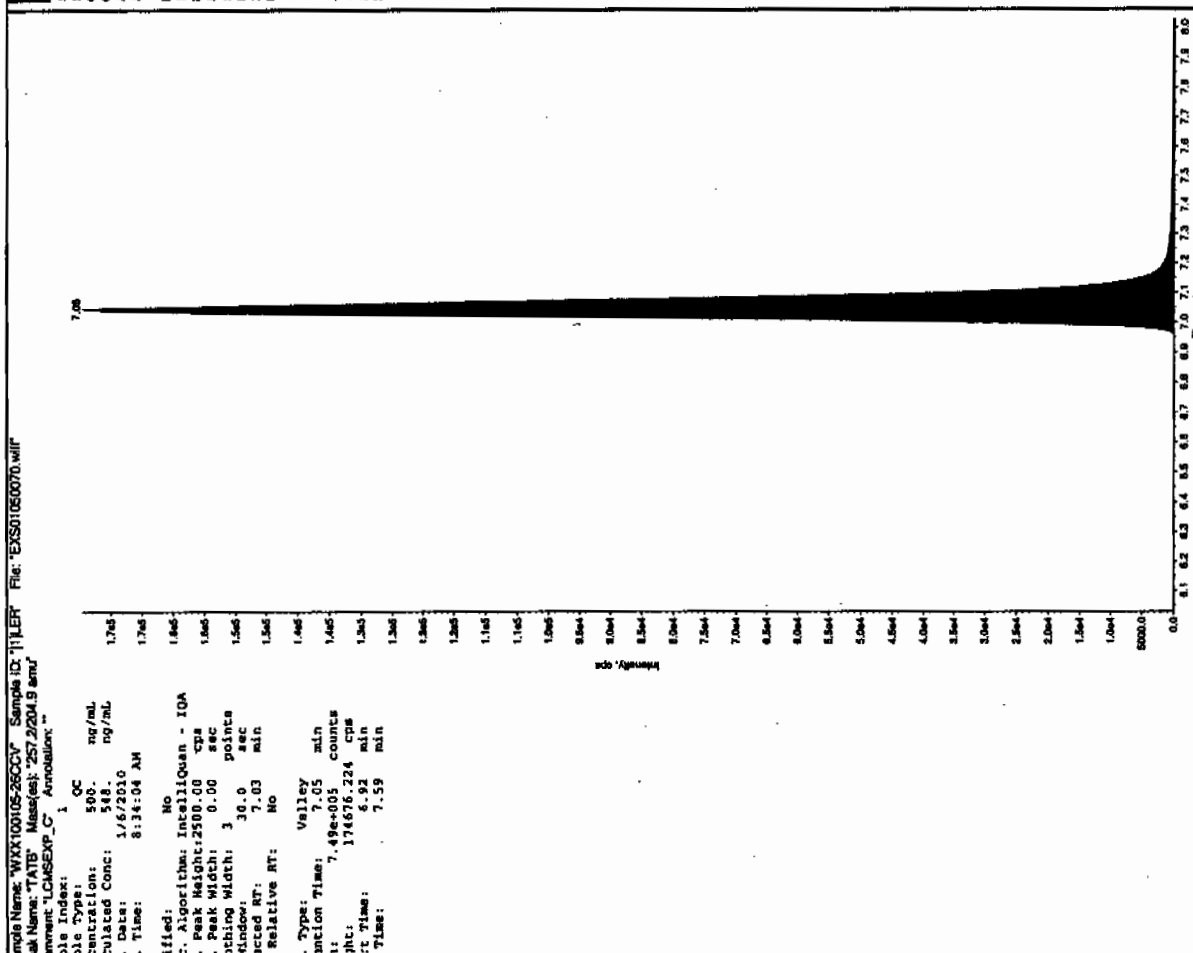
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/16/11
B. J. Jones

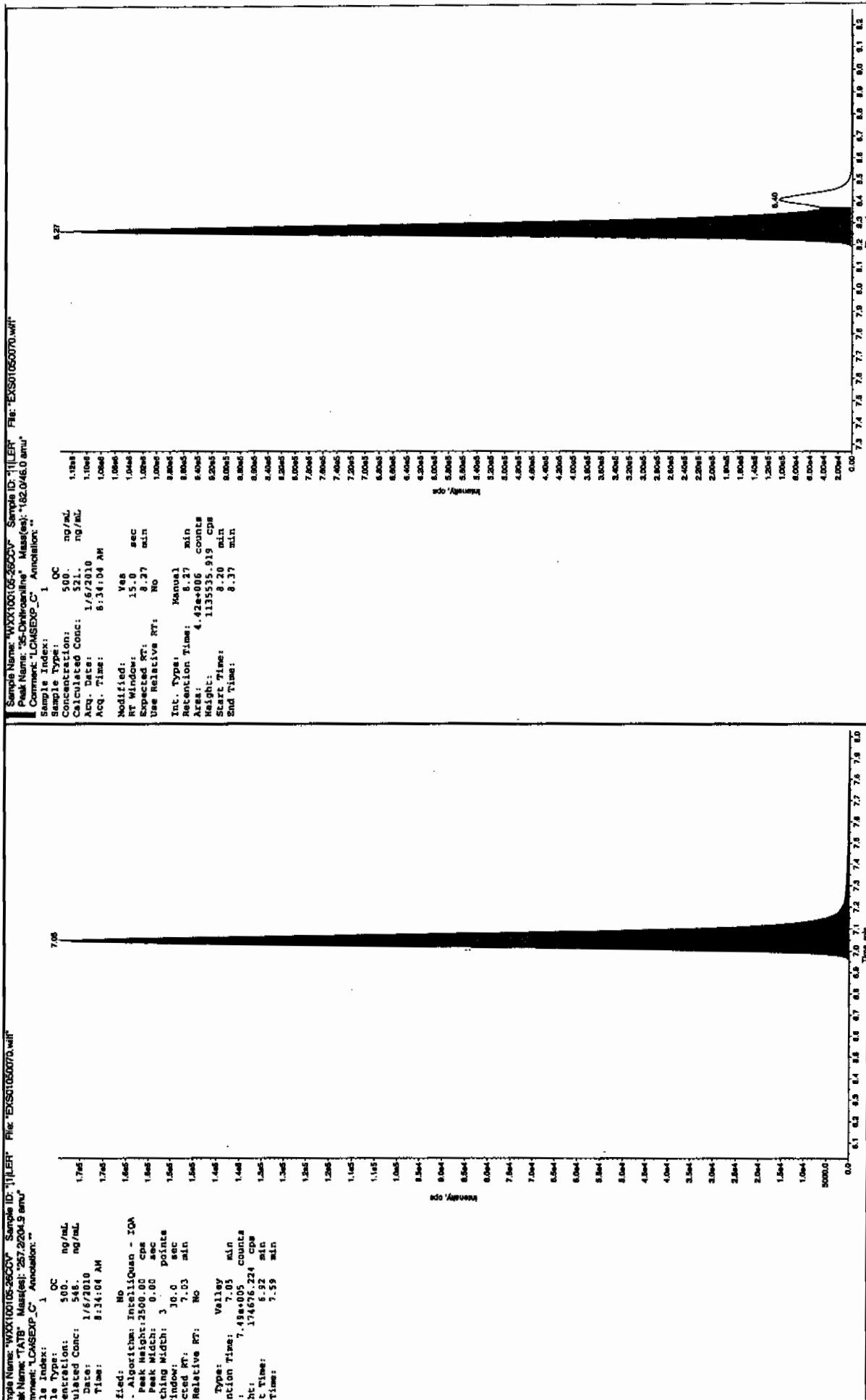


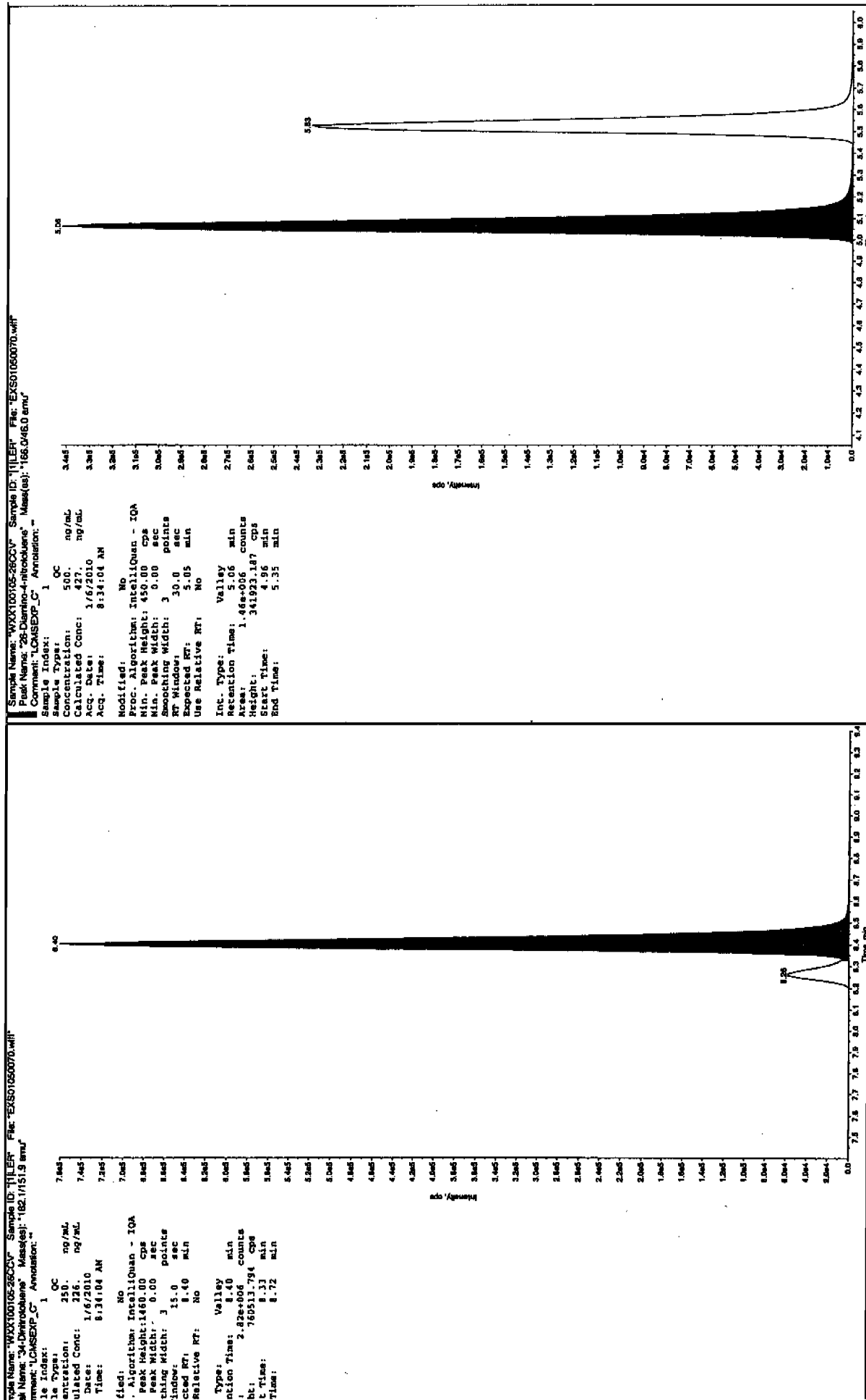
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EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1074

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050072.wiff

Analysis Date: 06-JAN-10 09:05

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	100	108	108	
tris(o-cresyl) phosphate	100	100	100	
2,4-Diamino-6-nitrotoluene	100	73.3	73	
2,6-Diamino-4-nitrotoluene	100	91.9	92	
3,4-Dinitrotoluene	50	50.8	102	
3,5-Dinitroaniline	100	103	103	

Recovery Limits:

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

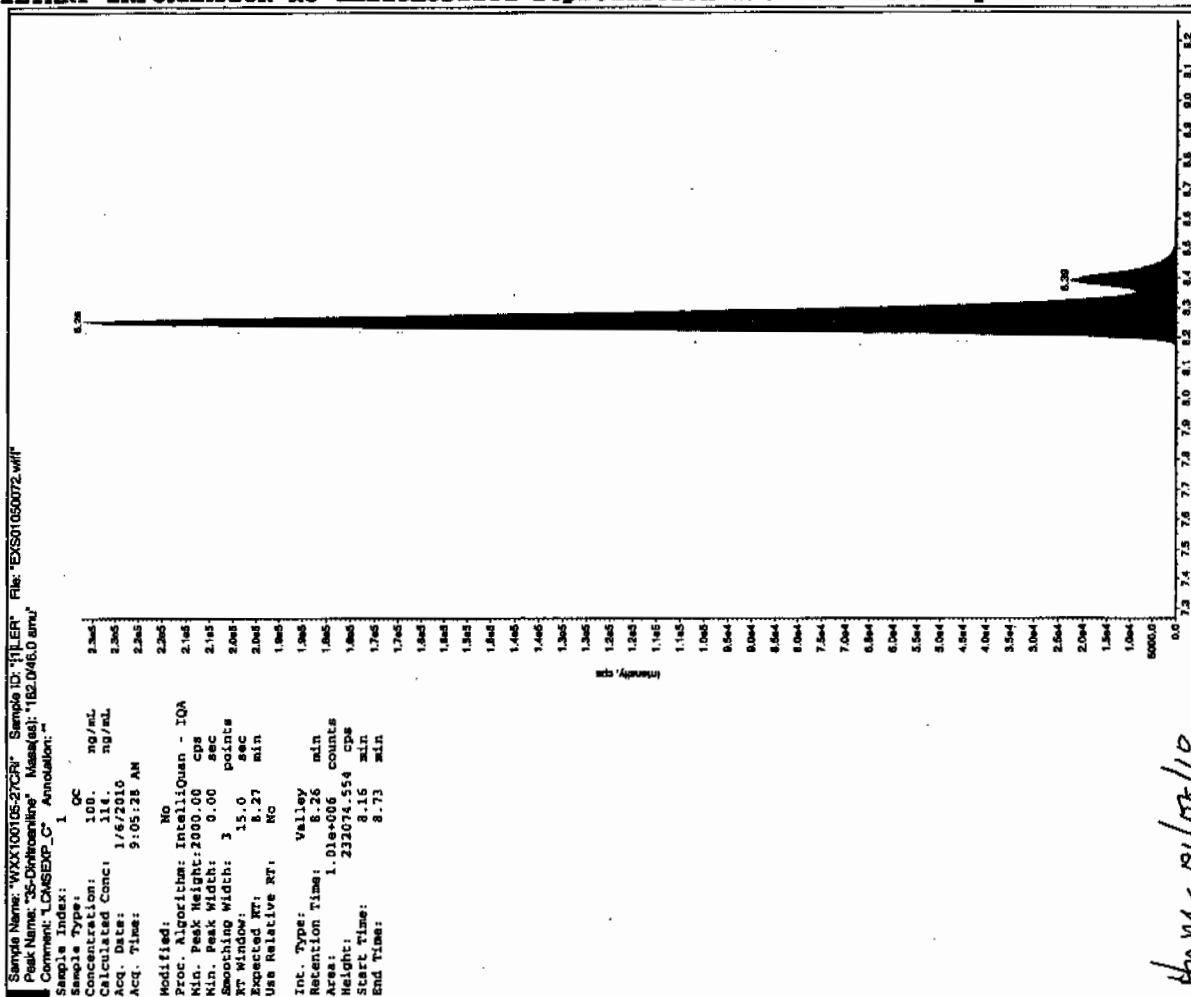
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

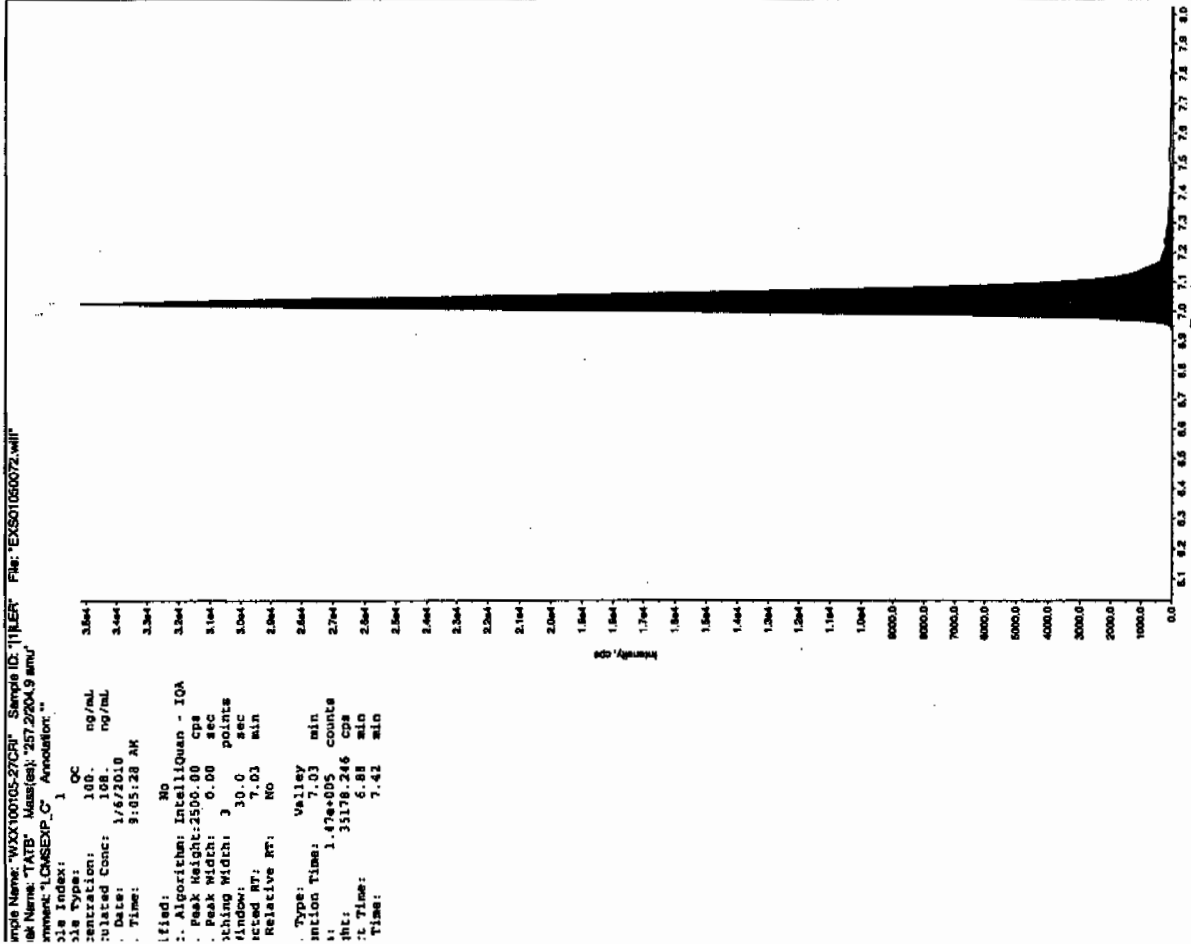
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/16/10
L. J. J. J.

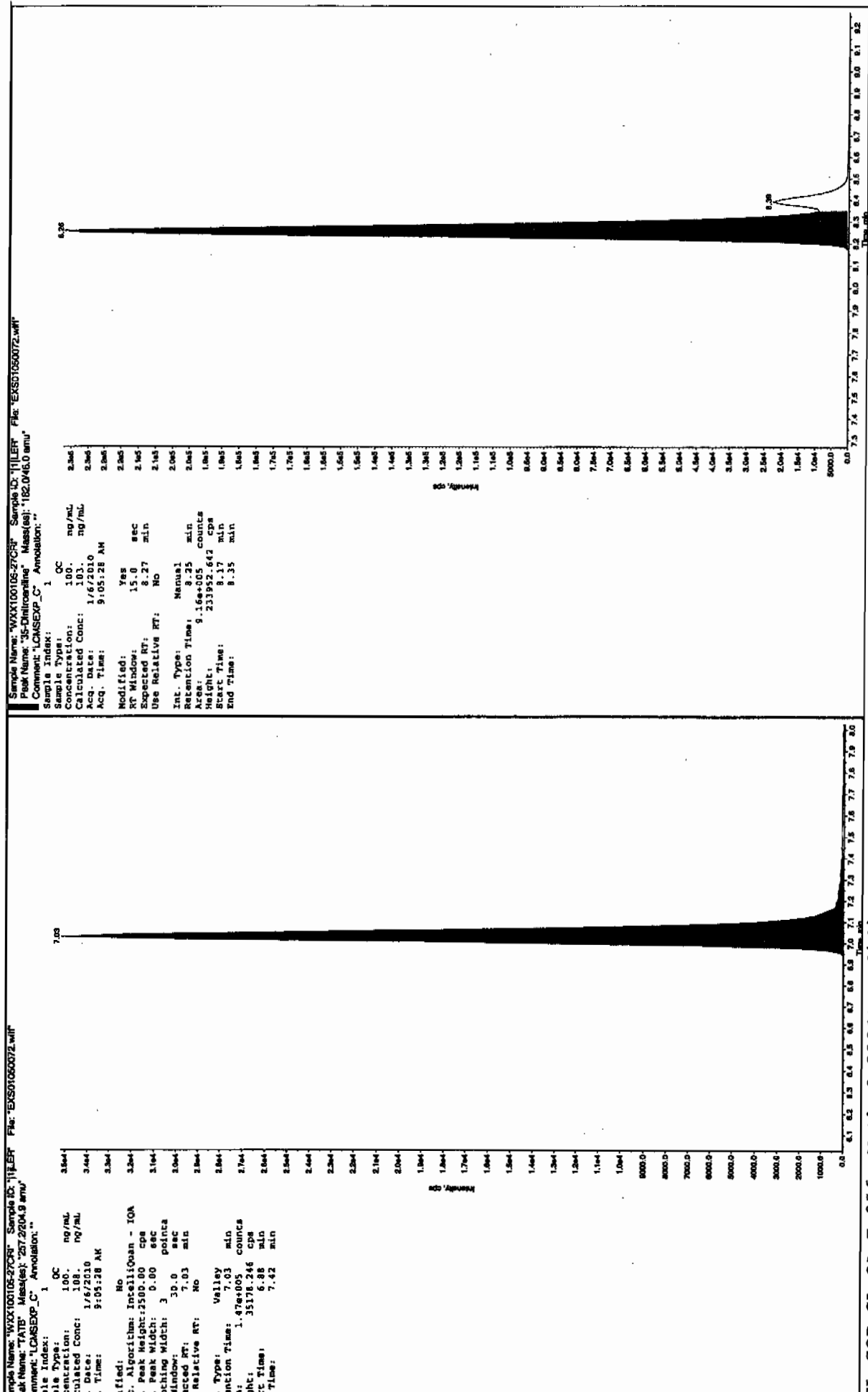


01/08/10

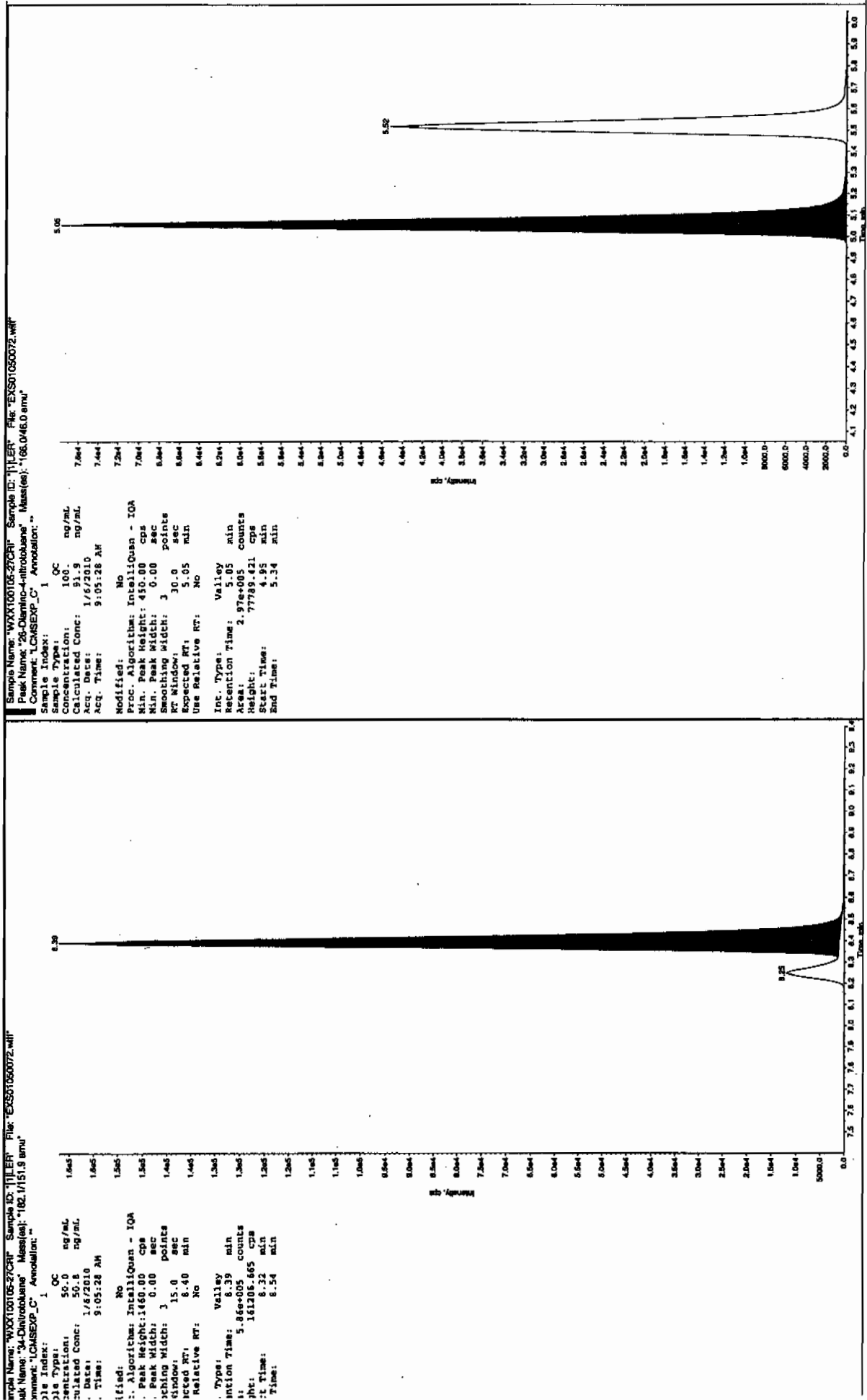


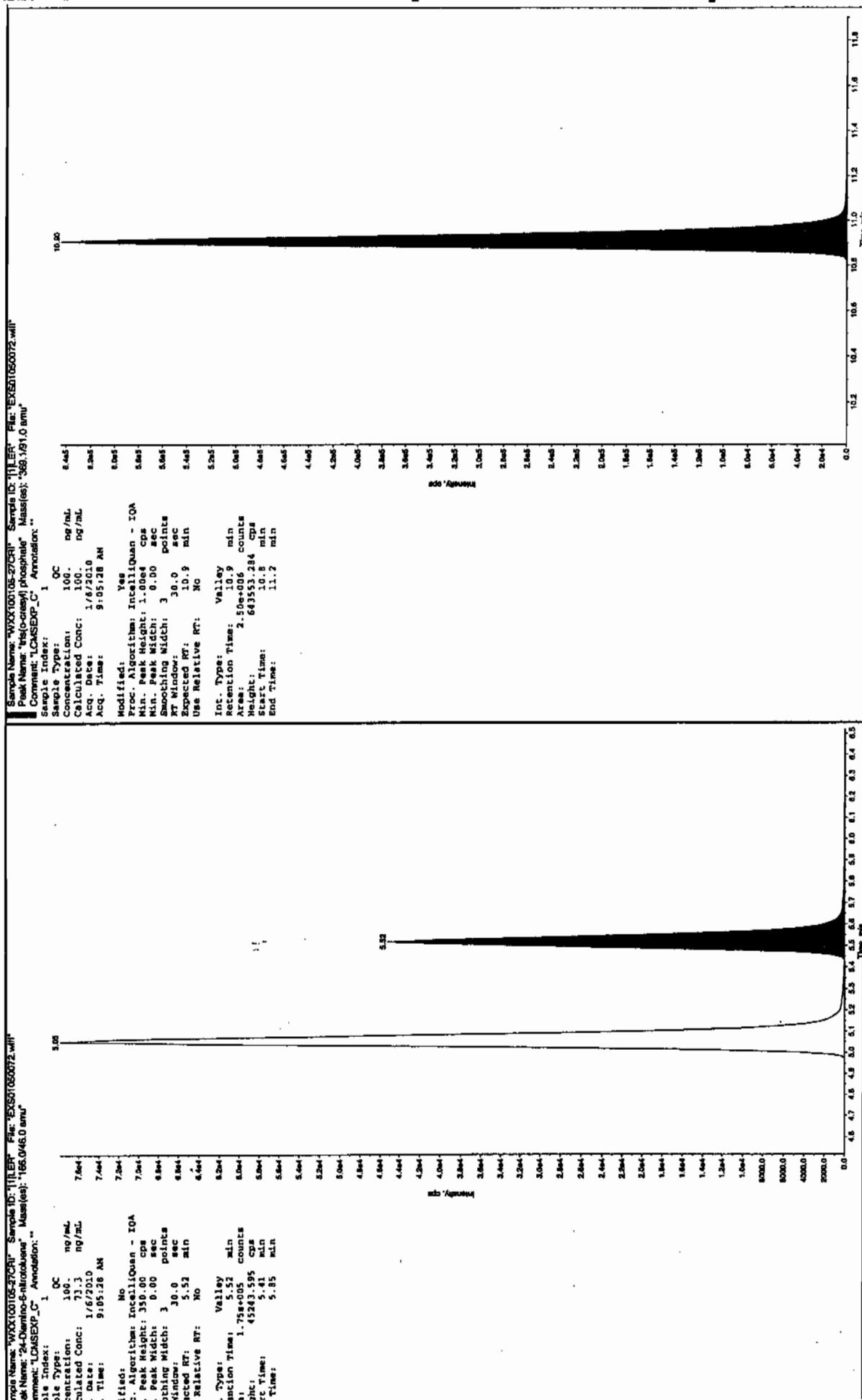
3L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

2/1/11
2007
2007



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





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

QUALITY CONTROL DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 937040

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 1202005126

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105096a

Date Analyzed: 07-JAN-10 17:58

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp_PRO\10510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0105096a

Date: 07-Jan-2010

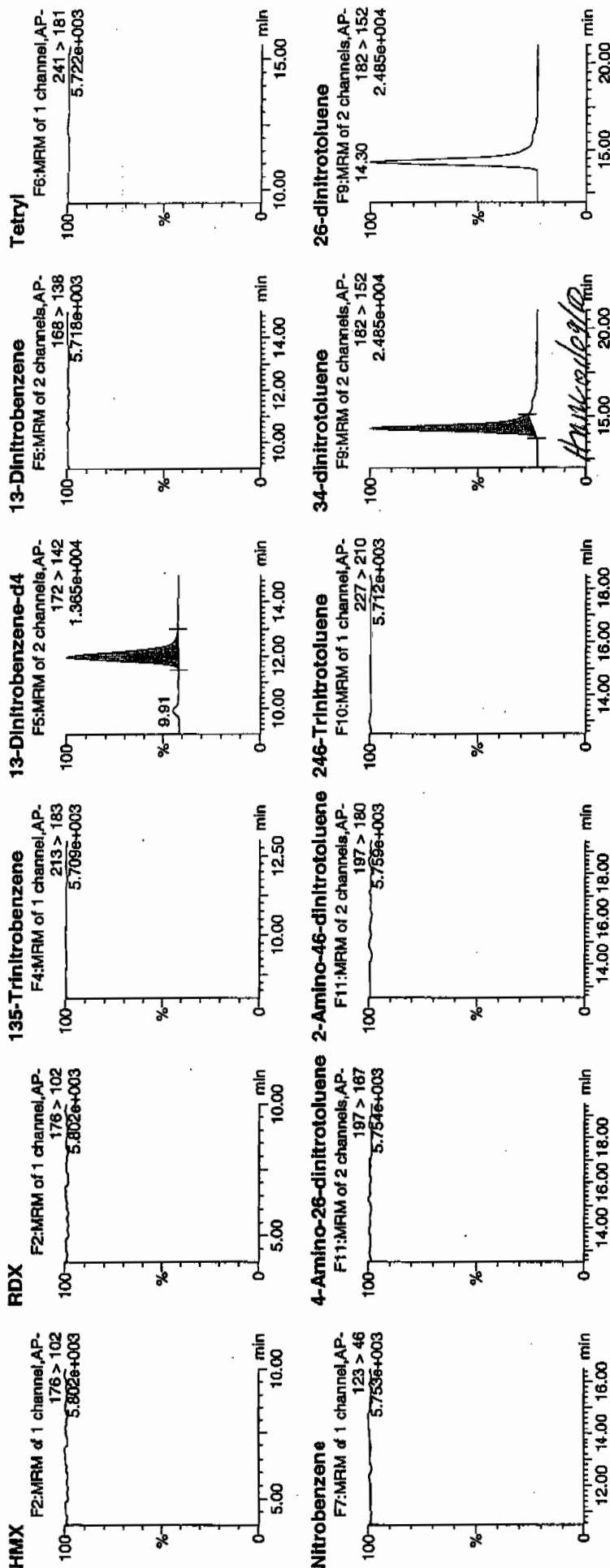
Time: 17:58:06

ID: 1202005126

Vial: 3:1.A

LANU 937041 / 8027 / MB / 21

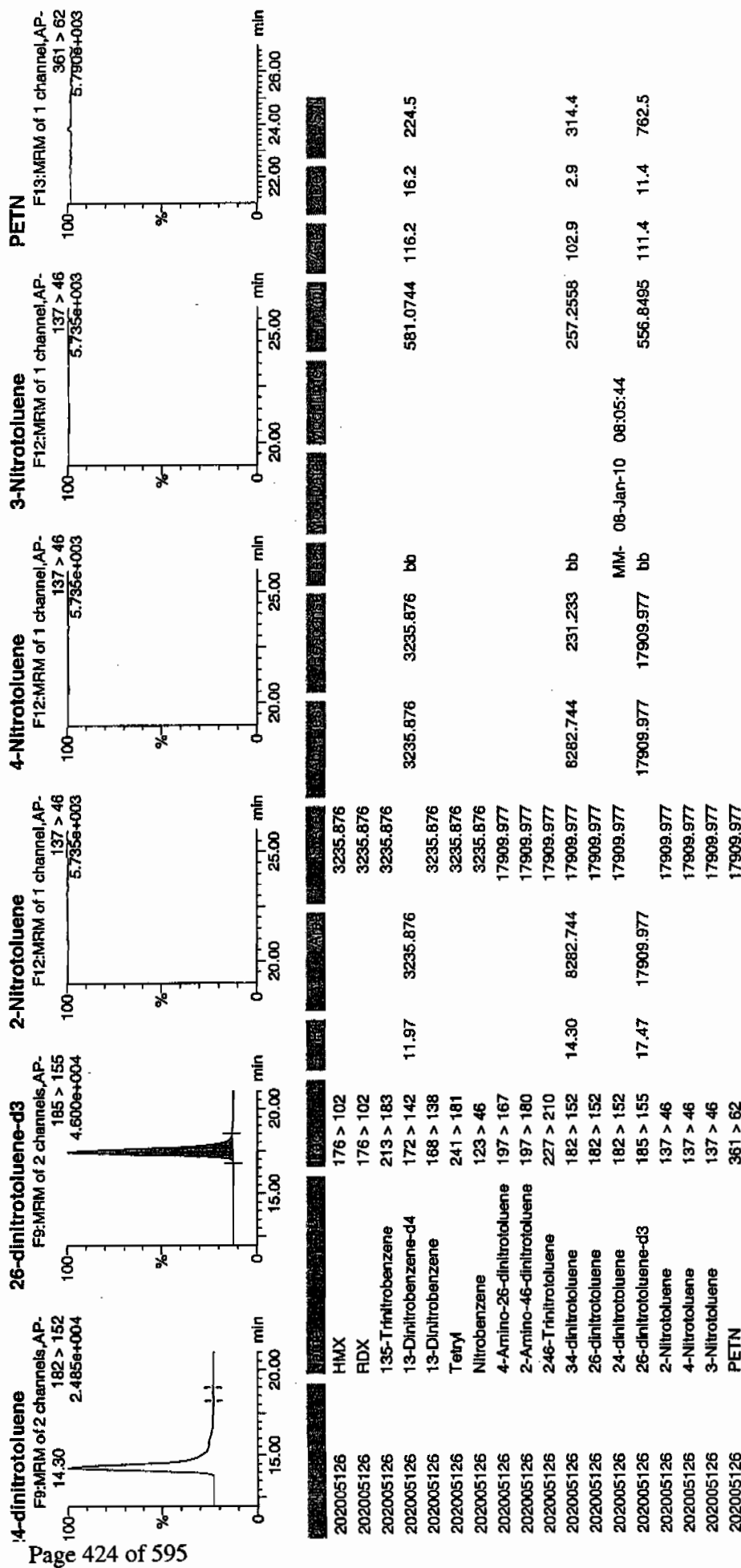
10/10



Printed: Fri Jan 08 08:09:43 2010, Page 46 of 97

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 937040

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 1202005126

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050040.wiff

Date Analyzed: 06-JAN-10 00:42

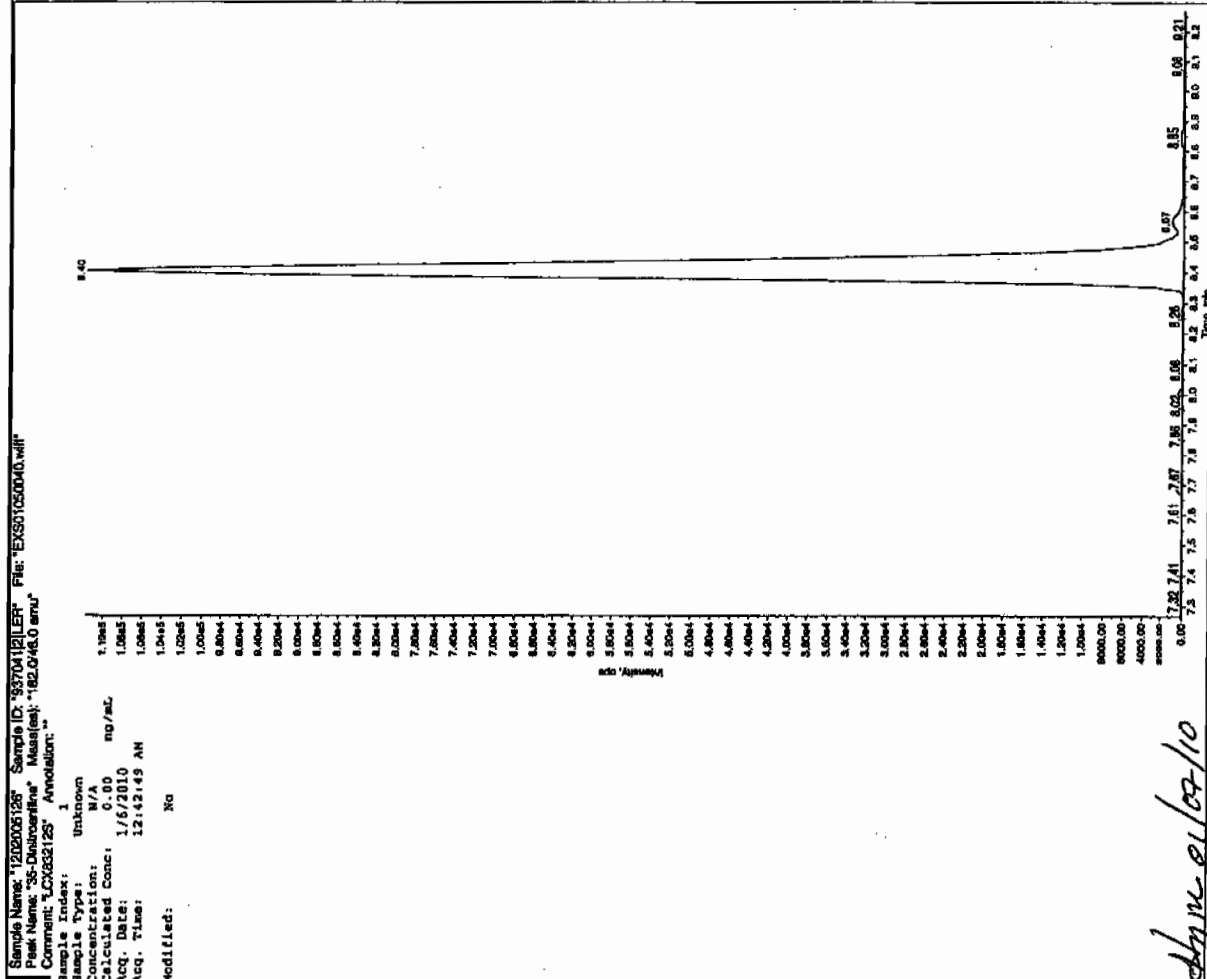
Units: ug/kg

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

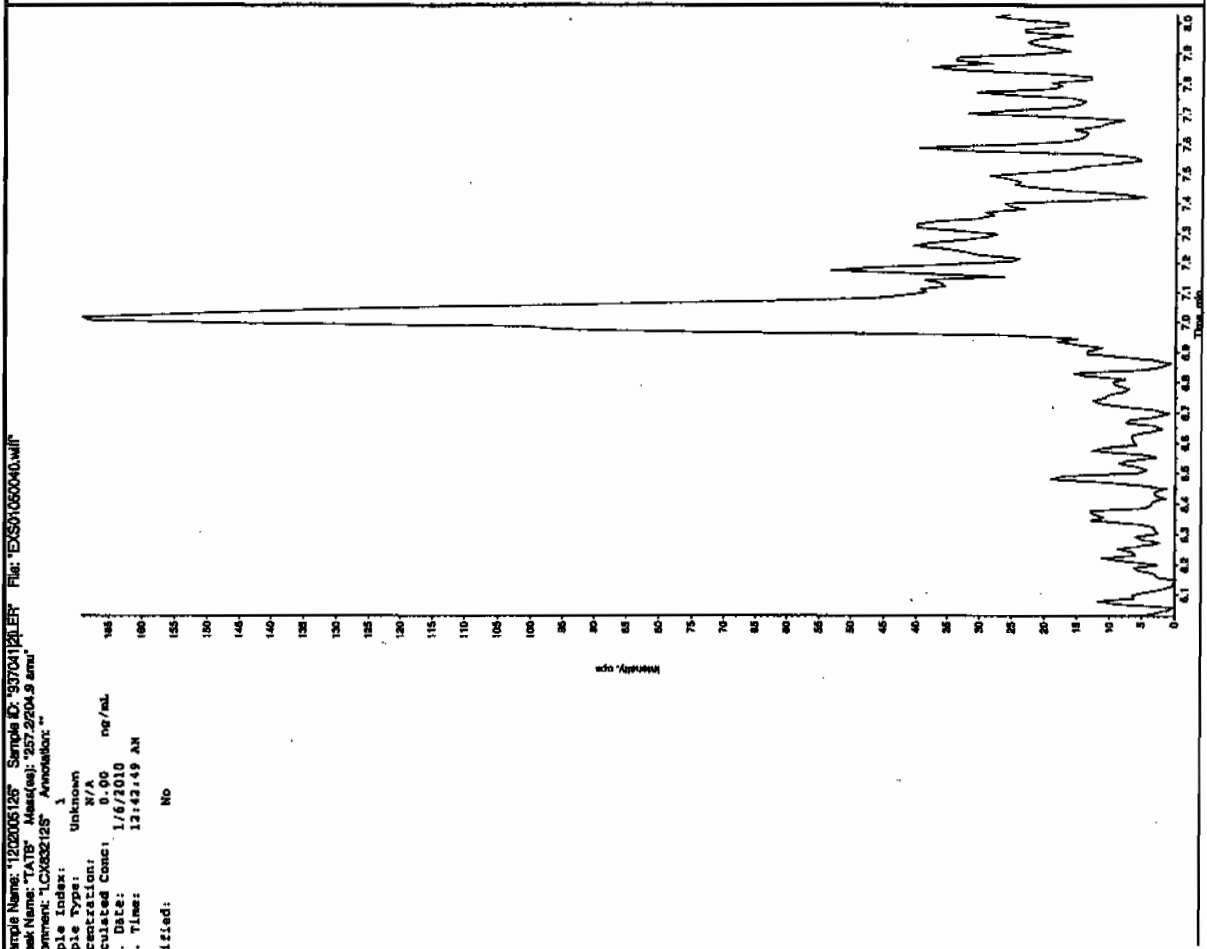
*Concentration =

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

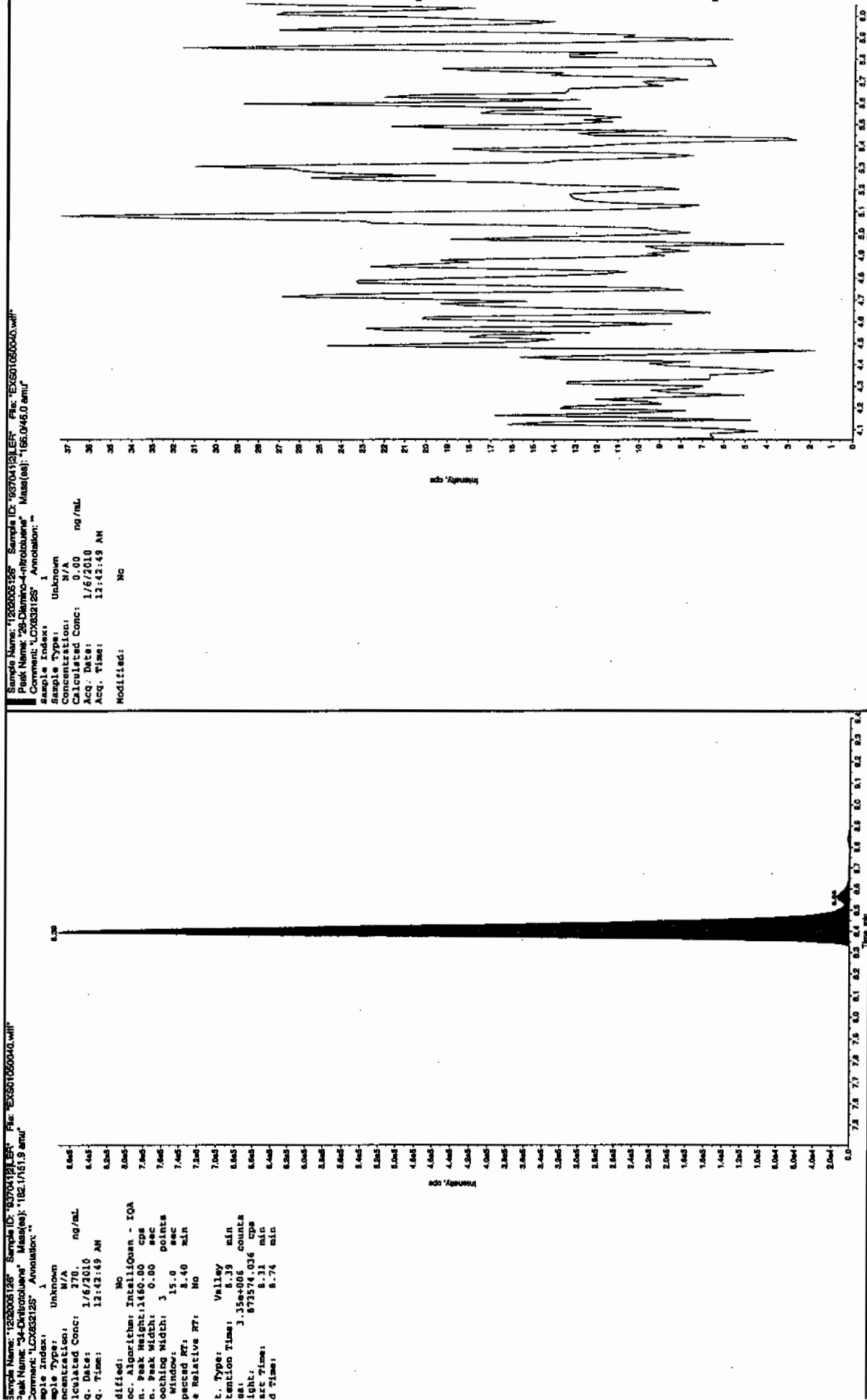
8/2/10
11/10/10



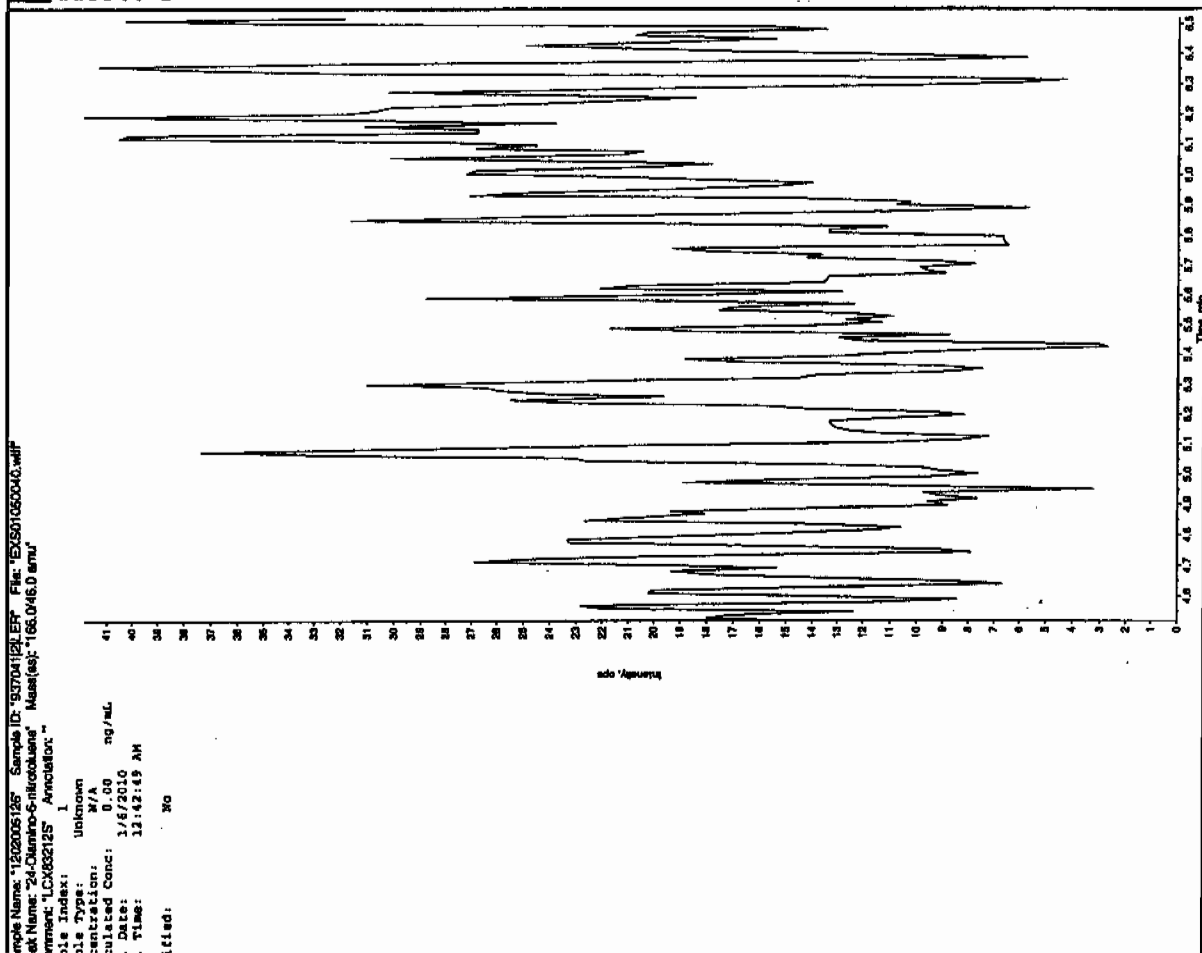
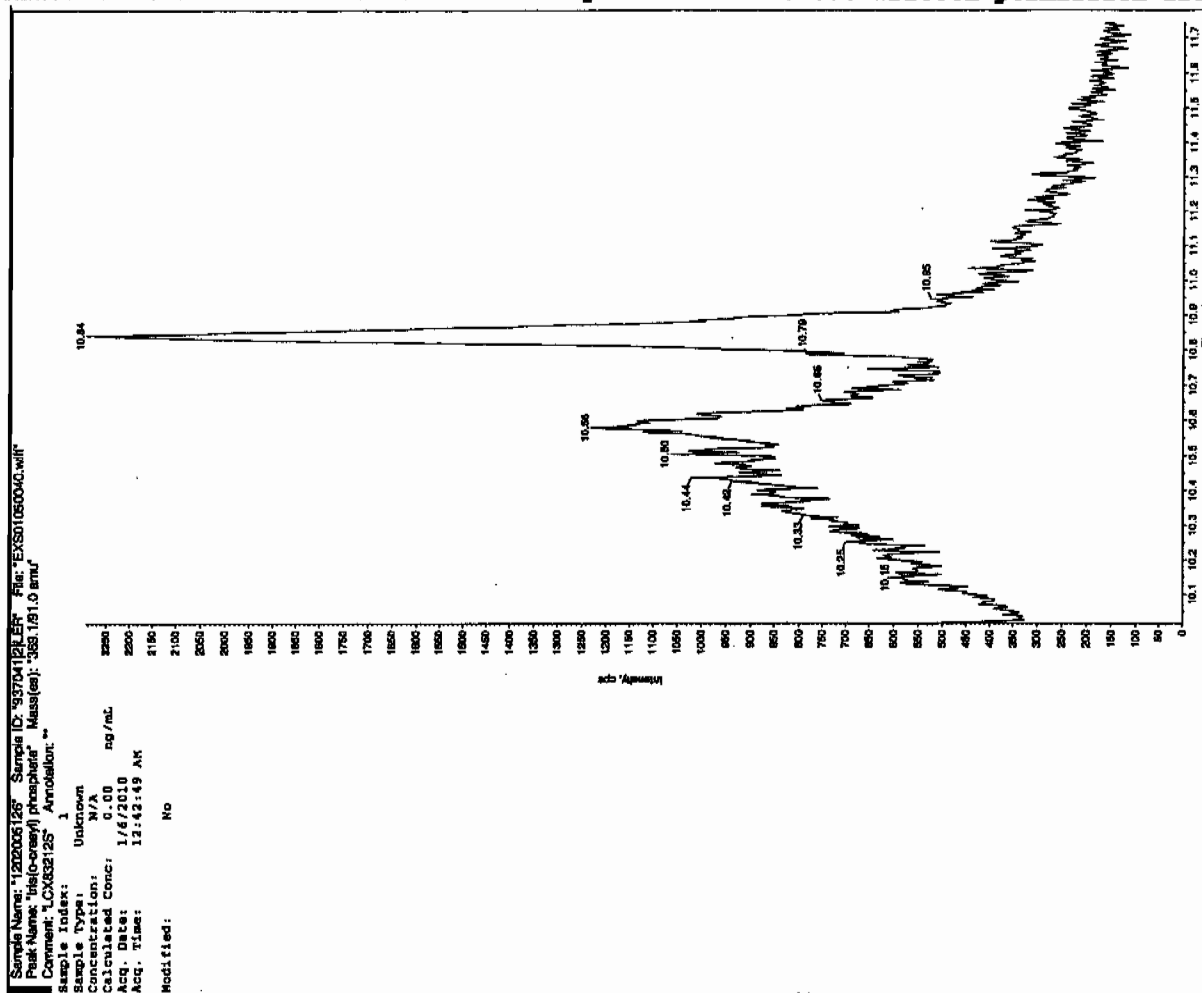
8/2/10
11/10/10



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



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



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 937040

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 1202005127

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0105097a

Date Analyzed: 07-JAN-10 18:27

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4860	
121-14-2	2,4-Dinitrotoluene	4920	
121-82-4	RDX	4500	
19406-51-0	4-Amino-2,6-dinitrotoluene	4720	
2691-41-0	HMX	4060	
35572-78-2	2-Amino-4,6-dinitrotoluene	5180	
479-45-8	Tetryl	3500	
606-20-2	2,6-Dinitrotoluene	4800	
78-11-5	PETN	3870	
88-72-2	o-Nitrotoluene	4190	
98-95-3	Nitrobenzene	4130	
99-08-1	m-Nitrotoluene	4320	
99-35-4	1,3,5-Trinitrobenzene	4480	
99-65-0	m-Dinitrobenzene	4370	
99-99-0	p-Nitrotoluene	4740	

*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:\MASSLYN\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYN\NEW_EXP.PRO\Data\EXP0105097a

Date: 07-Jan-2010

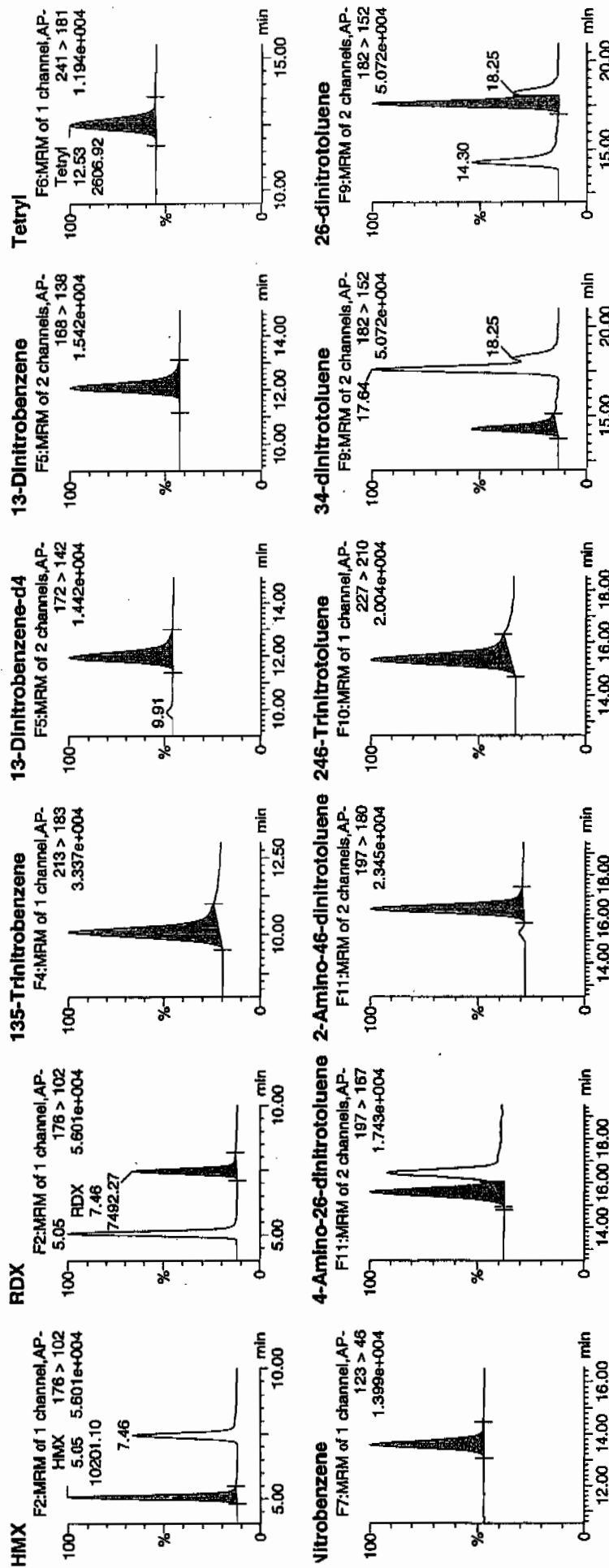
Time: 18:27:41

ID: 1202005127

Vial: 3:1,B

1/8/10

937041 / 8022 / 108 / 21

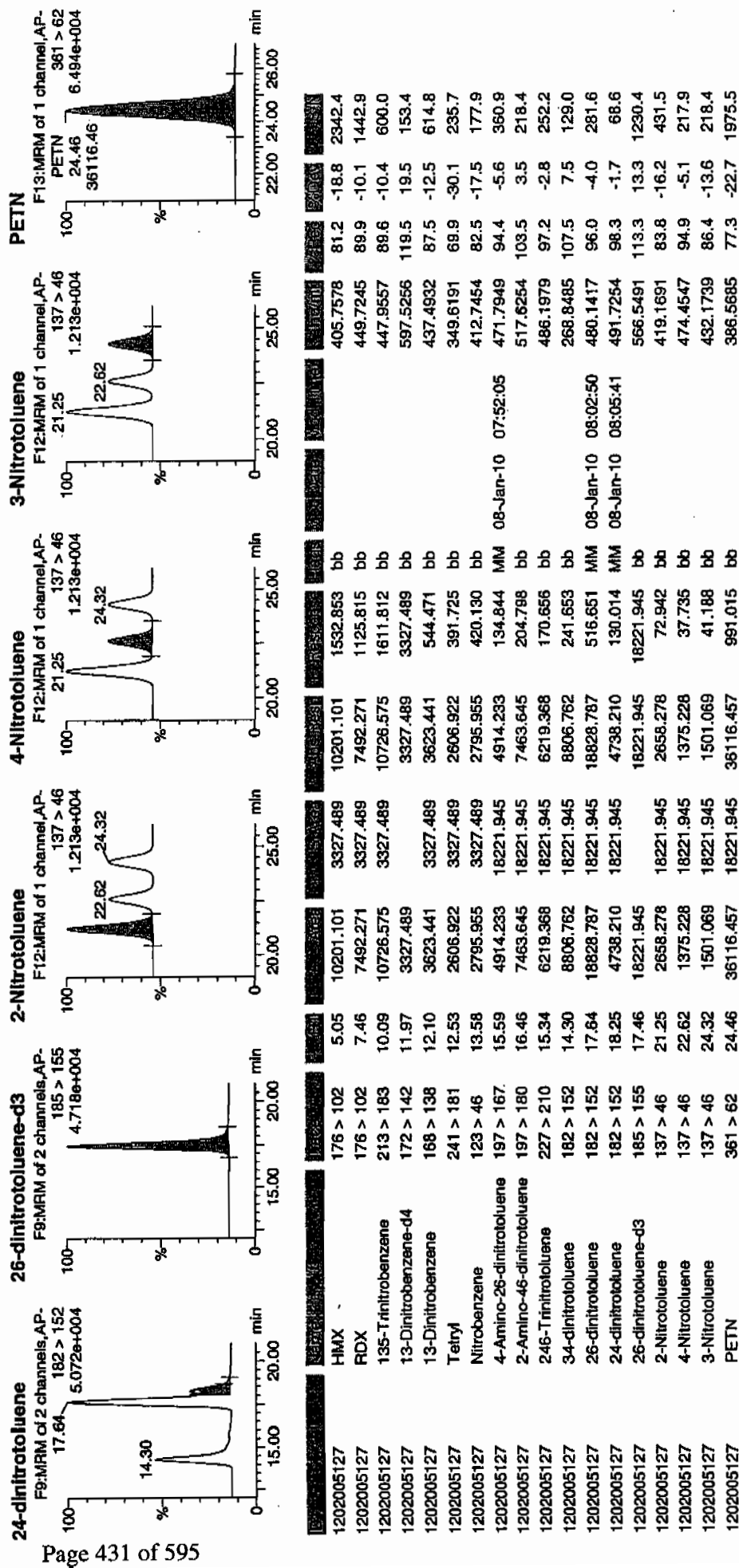


8/1/10

Printed: Fri Jan 08 08:09:43 2010, Page 48 of 97

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

Dataset: C:\MASSLYN\New_Exp.PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 937040

Lab Code: GEL

GEL Job No (SDG) 10-1074

Matrix: SOIL

GEL Sample ID: 1202005127

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 937040

Concentrated Extract Volume (mL) 10

Date Extracted: 04-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050041.wiff

Date Analyzed: 06-JAN-10 00:58

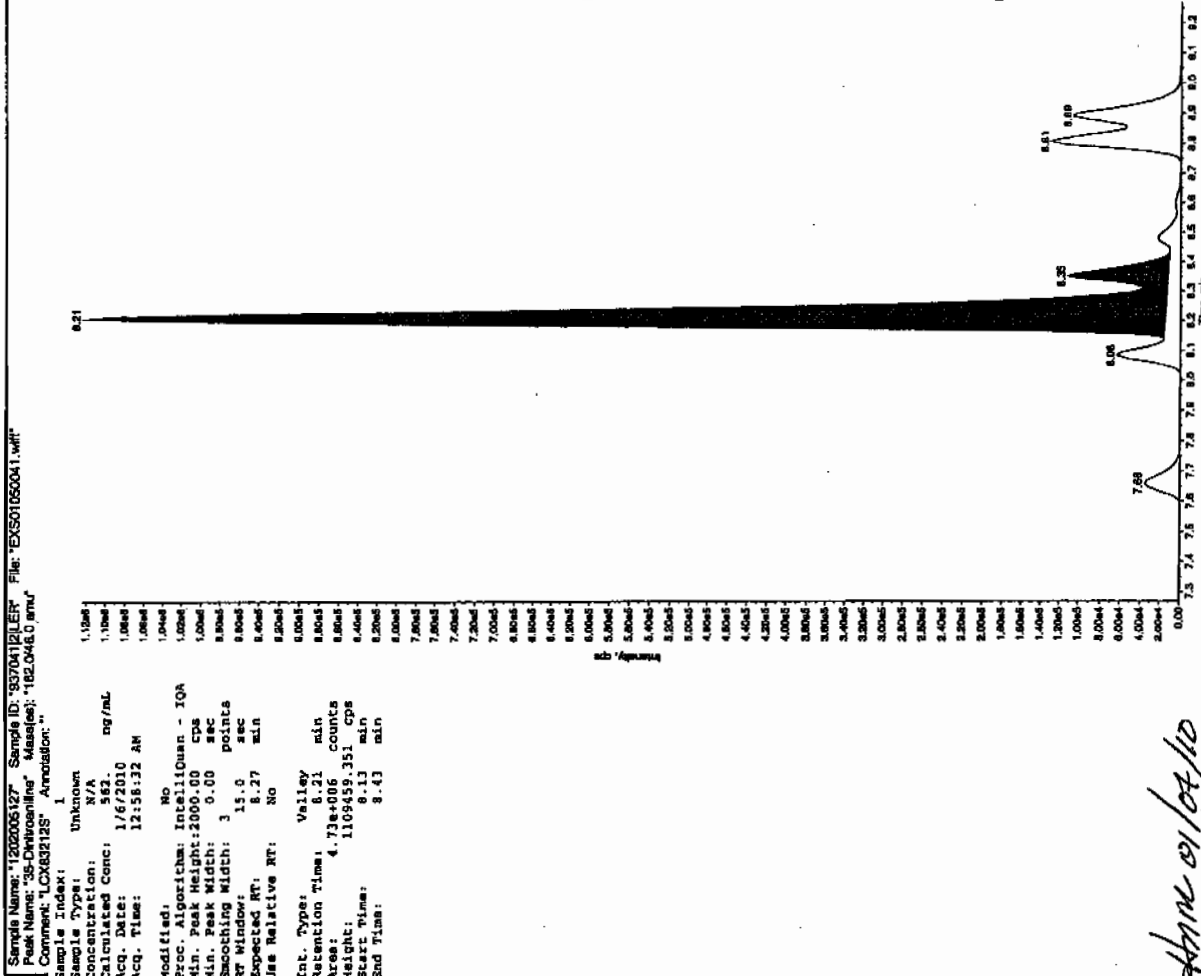
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	16900	
59229-75-3	2,6-Diamino-4-nitrotoluene	3910	
618-87-1	3,5-Dinitroaniline	5320	
6629-29-4	2,4-Diamino-6-nitrotoluene	3410	
78-30-8	tris(o-cresyl) phosphate	5020	

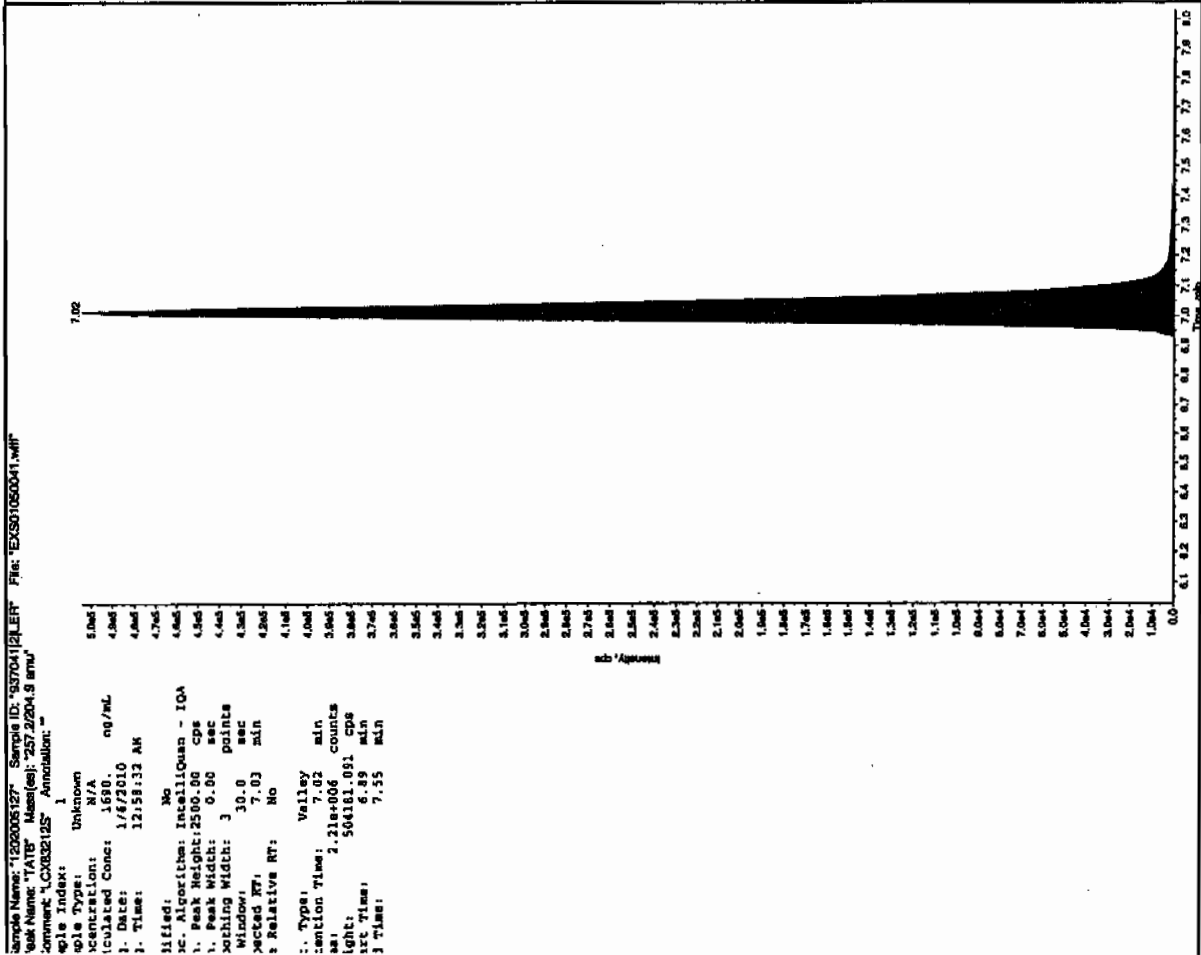
*Concentration =

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

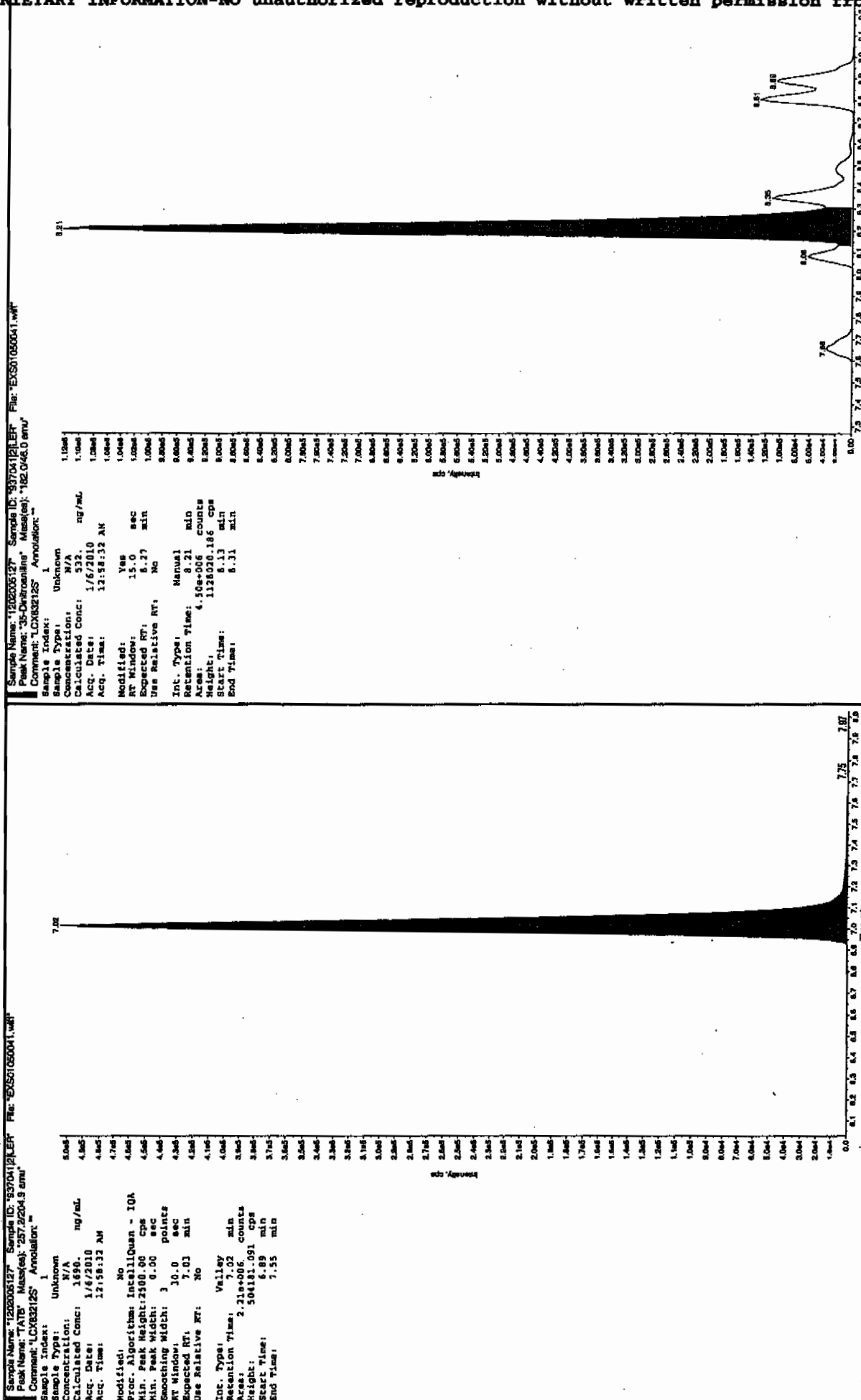
01/16/11
 08/22/11
 09/14/11



Amc 01/07/10



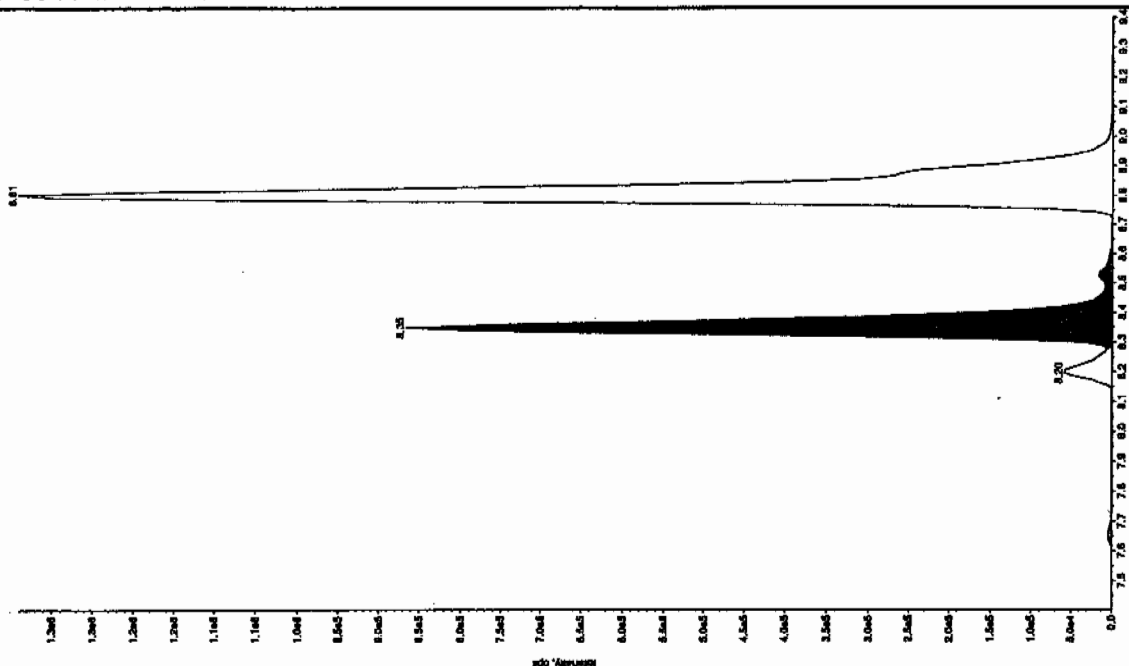
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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

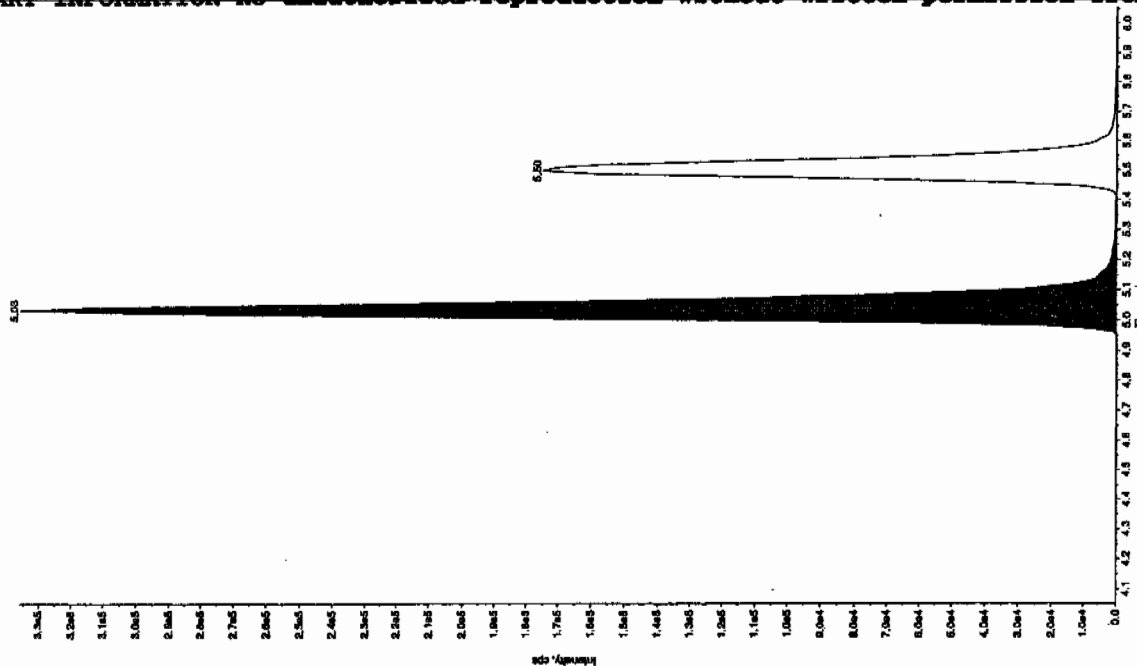
Sample Name: 1202005127 Sample ID: 93704121LEF File: EX501050041.wif
 Peak Name: 34-Chlorobutane Mass(es): 162.1/151.9 amu
 Comment: LCM832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 260. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:58:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 1480.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Selected RT: 8.62 min
 Use Relative RT: No
 RT Type: Valley
 Retention Time: 8.35 min
 Area: 3.23e+006 counts
 Height: 652118.512 cps
 Start Time: 8.28 min
 End Time: 8.62 min



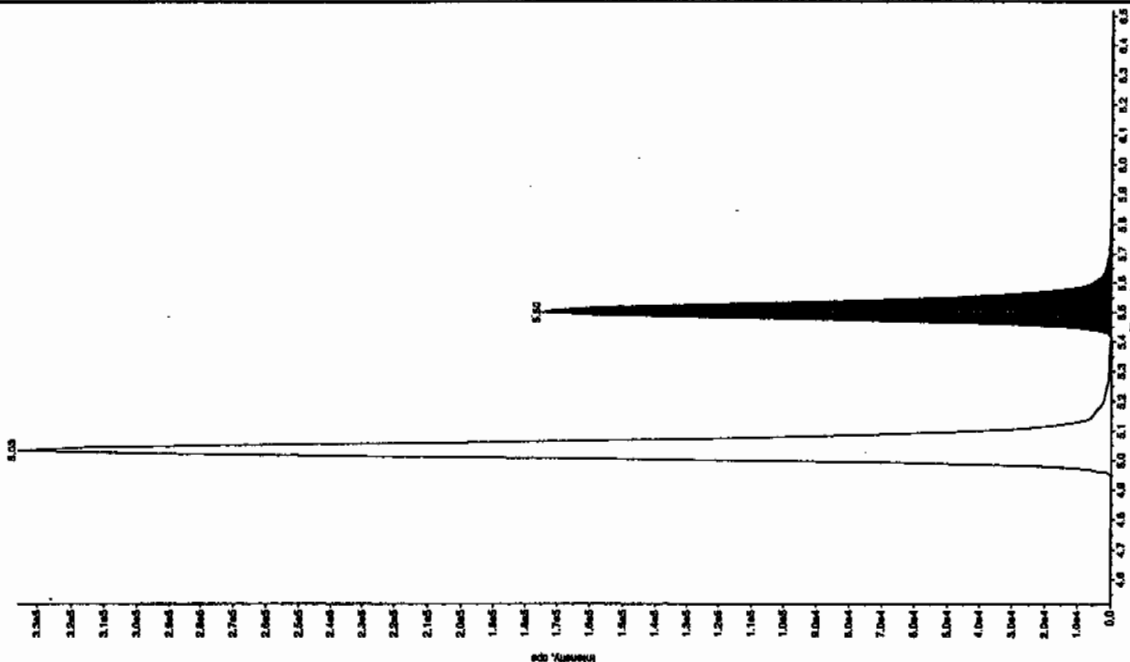
Sample Name: 1202005127 Sample ID: 93704121LEF File: EX501050041.wif
 Peak Name: 26-Chloro-nitrobenzene Mass(es): 166.0/166.0 amu
 Comment: LCM832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 391. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:58:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 30.0 sec
 Selected RT: 5.03 min
 Use Relative RT: No
 RT Type: Valley
 Retention Time: 5.03 min
 Area: 1.34e+006 counts
 Height: 336113.586 cps
 Start Time: 4.93 min
 End Time: 5.33 min



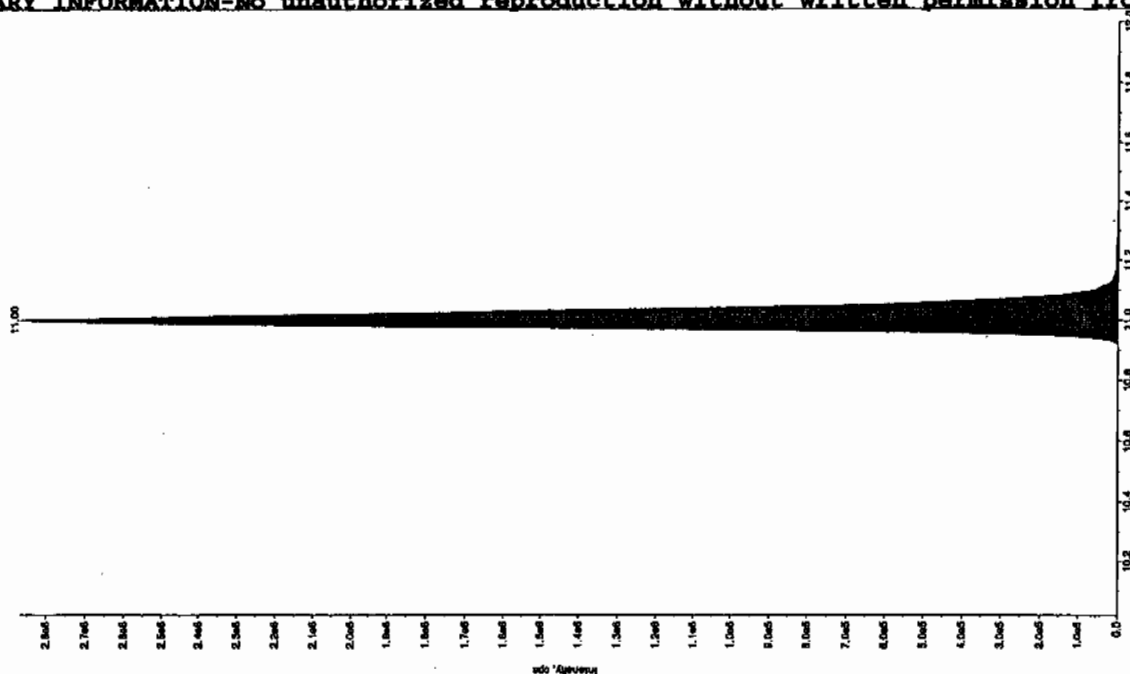
Sample Name: "120005127" Sample ID: "83704128.ER" File: "EX501050041.wif"
 Peak Name: "24-Diamino-6-nitro-squene" Mass(es): "168.046.0 amu"
 Comment: "LCX832125" Acquisition: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 341. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:58:32 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 6.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.53 min
 Use Relative RT: No
 Ret. Type: Valley
 Retention Time: 5.50 min
 Area: 7.57e+005 counts
 Height: 174436.568 cps
 Start Time: 5.41 min
 End Time: 5.96 min



Sample Name: "120005127" Sample ID: "83704128.ER" File: "EX501050041.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "389.191.0 amu"
 Comment: "LCX832125" Acquisition: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 503. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:58:32 AM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 6.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 11.0 min
 Use Relative RT: No
 Ret. Type: Valley
 Retention Time: 11.0 min
 Area: 1.13e+007 counts
 Height: 2868533.447 cps
 Start Time: 10.9 min
 End Time: 11.3 min



MISCELLANEOUS DATA

Prep Logbook Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 937040 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	Alliquot (g)	Prepped Alliquot (mL)	Prepped Factor (mL/g)
1202005126 MB	04-JAN-2010 14:30:57	2	10	5
1202005127 LCS	04-JAN-2010 14:30:57	2	10	5
243517003	04-JAN-2010 14:30:57	2	10	5
243517004	04-JAN-2010 14:30:57	2	10	5
243517005	04-JAN-2010 14:30:57	2	10	5
243517006	04-JAN-2010 14:30:57	2	10	5
243517007	04-JAN-2010 14:30:57	2	10	5
243517008	04-JAN-2010 14:30:57	2	10	5
1202005624 MS (243517008)	04-JAN-2010 14:30:57	2	10	5
1202005625 MSD (243517008)	04-JAN-2010 14:30:57	2	10	5
243517009	04-JAN-2010 14:30:57	2	10	5
243519001	04-JAN-2010 14:30:57	2	10	5
243519002	04-JAN-2010 14:30:57	2	10	5
243519003	04-JAN-2010 14:30:57	2	10	5
243519004	04-JAN-2010 14:30:57	2	10	5
243519005	04-JAN-2010 14:30:57	2	10	5
243519006	04-JAN-2010 14:30:57	2	10	5
243519007	04-JAN-2010 14:30:57	2	10	5
243519008	04-JAN-2010 14:30:57	2	10	5
243519009	04-JAN-2010 14:30:57	2	10	5
243519010	04-JAN-2010 14:30:57	2	10	5
243519011	04-JAN-2010 14:30:57	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments
LCS	1202005127	8321 Explosives LCS	DX091230-03	.1	mL	Final Solvent: ACN
LCS	1202005127	8321 LANL Explosives Mix 10mg/L	UX091117-03.1	1	mL	
MS	1202005624	8321 Explosives LCS	DX091230-03	.1	mL	
MS	1202005624	8321 LANL Explosives Mix 10mg/L	UX091117-03.1	1	mL	
MSD	1202005625	8321 Explosives LCS	DX091230-03	.1	mL	
MSD	1202005625	8321 LANL Explosives Mix 10mg/L	UX091117-03.1	1	mL	
SURR	All	3,4-Dinitrocoluene (8330 Sur.) 100ppm	DX091230-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 01/05/10
 Extr. Injection Volume: 50uL
 Sequence Number: 010510expA
 Initial Calibration Date: 01/05/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX091201-01.4
 Mobile Phase Lot#: 1248119, 1236350
 Standard-Samp Reagent Lot#: 1246693, 1233976
 Reviewed BY: *Ann*
 Date: *01/09/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100105-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0105001a	XIBLK01	MAP	1/5/10 18:57			1		USE	B
EXP0105002a	XIBLK01	MAP	1/5/10 19:26			1		USE	B
EXP0105003a	WXXICAL-01	MAP	1/5/10 19:56			1		USE	I
EXP0105004a	WXXICAL-02	MAP	1/5/10 20:25			1		USE	I
EXP0105005a	WXXICAL-03	MAP	1/5/10 20:55			1		USE	I
EXP0105006a	WXXICAL-04	MAP	1/5/10 21:24			1		USE	I
EXP0105007a	WXXICAL-05	MAP	1/5/10 21:54			1		USE	I
EXP0105008a	WXXICAL-06	MAP	1/5/10 22:23			1		USE	I
EXP0105009a	XIBLK02	MAP	1/5/10 22:53			1		USE	B
EXP0105010a	WXXICV	MAP	1/5/10 23:22			1		USE	C
EXP0105011a	XIBLK03	MAP	1/5/10 23:52			1		USE	B
EXP0105012a	WXXCRI	MAP	1/6/10 0:21			1		USE	C
EXP0105013a	1201993746	MAP	1/6/10 0:51	932033	Various	2	LANL	USE	S
EXP0105014a	1201993747	MAP	1/6/10 1:20	932033	Various	2	LANL	USE	S
EXP0105015a	242652005	MAP	1/6/10 1:50	932033	10-850	2	LANL	USE	S
EXP0105016a	242666005	MAP	1/6/10 2:19	932033	10-868	2	LANL	USE	S
EXP0105017a	1201993748	MAP	1/6/10 2:49	932033	10-868	2	LANL	USE	S
EXP0105018a	1201993749	MAP	1/6/10 3:18	932033	10-868	2	LANL	USE	S
EXP0105019a	242761001	MAP	1/6/10 3:47	932033	10-875	2	LANL	USE	S
EXP0105020a	WXXCCV	MAP	1/6/10 4:17			1		USE	C
EXP0105021a	XIBLK04	MAP	1/6/10 4:46			1		USE	B
EXP0105022a	WXXCRI	MAP	1/6/10 5:16			1		USE	C
EXP0105023a	1201994721	MAP	1/6/10 5:45	932553	Various	2	LANL	USE	S
EXP0105024a	1201994722	MAP	1/6/10 6:15	932553	Various	2	LANL	USE	S
EXP0105025a	242752009	MAP	1/6/10 6:44	932553	10-880	2	LANL	USE	S
EXP0105026a	242752016	MAP	1/6/10 7:14	932553	10-880	2	LANL	USE	S
EXP0105027a	242752020	MAP	1/6/10 7:43	932553	10-880	2	LANL	USE	S
EXP0105028a	242788002	MAP	1/6/10 8:13	932553	10-894	2	LANL	USE	S
EXP0105029a	242788006	MAP	1/6/10 8:42	932553	10-894	2	LANL	USE	S

EXP0105030a	1201994723	MAP	1/6/10 9:12	932553	10-894	2	LANL	USE	S
EXP0105031a	1201994724	MAP	1/6/10 9:42	932553	10-894	2	LANL	USE	S
EXP0105032a	Kaolin LCS	MAP	1/6/10 10:11	SCREEN	NA	2	GEL	USE	S
EXP0105033a	WXXCCV	MAP	1/6/10 10:41			1		USE	C
EXP0105034a	XIBLK05	MAP	1/6/10 11:10			1		USE	B
EXP0105035a	WXXCRI	MAP	1/6/10 11:40			1		USE	C
EXP0105036a	1202003502	MAP	1/6/10 12:09	936357	Various	2	LANL	USE	S
EXP0105037a	1202003503	MAP	1/6/10 12:39	936357	Various	2	LANL	DUSE-RA	S
EXP0105038a	243393002	MAP	1/6/10 13:08	936357	10-1005	2	LANL	USE	S
EXP0105039a	243399001	MAP	1/6/10 13:38	936357	10-1009-1	2	LANL	USE	S
EXP0105040a	243399002	MAP	1/6/10 14:07	936357	10-1009-1	2	LANL	USE	S
EXP0105041a	243399003	MAP	1/6/10 14:37	936357	10-1009-1	2	LANL	USE	S
EXP0105042a	243399004	MAP	1/6/10 15:06	936357	10-1009-1	2	LANL	USE	S
EXP0105043a	243399005	MAP	1/6/10 15:36	936357	10-1009-1	2	LANL	USE	S
EXP0105044a	243406002	MAP	1/6/10 16:05	936357	10-1011	2	LANL	USE	S
EXP0105045a	WXXCCV	MAP	1/6/10 16:34			1		USE	C
EXP0105046a	XIBLK06	MAP	1/6/10 17:04			1		USE	B
EXP0105047a	WXXCRI	MAP	1/6/10 17:34			1		USE	C
EXP0105048a	1202003504	MAP	1/6/10 18:03	936357	10-1011	2	LANL	USE	S
EXP0105049a	1202003505	MAP	1/6/10 18:33	936357	10-1011	2	LANL	USE	S
EXP0105050a	243406003	MAP	1/6/10 19:02	936357	10-1011	2	LANL	USE	S
EXP0105051a	243406004	MAP	1/6/10 19:31	936357	10-1011	2	LANL	USE	S
EXP0105052a	243406005	MAP	1/6/10 20:01	936357	10-1011	2	LANL	DUSE-RA	S
EXP0105053a	243406006	MAP	1/6/10 20:30	936357	10-1011	2	LANL	DUSE-RA	S
EXP0105054a	243406007	MAP	1/6/10 21:00	936357	10-1011	2	LANL	DUSE-RA	S
EXP0105055a	243406008	MAP	1/6/10 21:29	936357	10-1011	2	LANL	USE	S
EXP0105056a	243406009	MAP	1/6/10 21:59	936357	10-1011	2	LANL	USE	S
EXP0105057a	243406010	MAP	1/6/10 22:28	936357	10-1011	2	LANL	DUSE-RA	S
EXP0105058a	WXXCCV	MAP	1/6/10 22:58			1		USE	C
EXP0105059a	XIBLK07	MAP	1/6/10 23:27			1		USE	B
EXP0105060a	WXXCRI	MAP	1/6/10 23:57			1		USE	C
EXP0105061a	1202005136	MAP	1/7/10 0:26	937046	Various	2	LANL	USE	S
EXP0105062a	1202005137	MAP	1/7/10 0:56	937046	Various	2	LANL	USE	S
EXP0105063a	243535001	MAP	1/7/10 1:25	937046	10-1078	2	LANL	USE	S
EXP0105064a	243535002	MAP	1/7/10 1:55	937046	10-1078	2	LANL	USE	S
EXP0105065a	243535003	MAP	1/7/10 2:24	937046	10-1078	2	LANL	USE	S
EXP0105066a	243535004	MAP	1/7/10 2:54	937046	10-1078	2	LANL	USE	S

EXP0105067a	243535005	MAP	17/10 3:23	937046	10-1078	2	LANL	USE	S
EXP0105068a	243535006	MAP	17/10 3:53	937046	10-1078	2	LANL	USE	S
EXP0105069a	243535007	MAP	17/10 4:22	937046	10-1078	2	LANL	USE	S
EXP0105070a	243535008	MAP	17/10 4:52	937046	10-1078	2	LANL	USE	S
EXP0105071a	WXXCCV	MAP	17/10 5:21			1		USE	C
EXP0105072a	XIBLK08	MAP	17/10 5:51			1		USE	B
EXP0105073a	WXXCRI	MAP	17/10 6:21			1		USE	C
EXP0105074a	243535009	MAP	17/10 6:50	937046	10-1078	2	LANL	USE	S
EXP0105075a	243535010	MAP	17/10 7:20	937046	10-1078	2	LANL	USE	S
EXP0105076a	243540001	MAP	17/10 7:49	937046	10-1077	2	LANL	USE	S
EXP0105077a	1202005138	MAP	17/10 8:19	937046	10-1077	2	LANL	USE-RA	S
EXP0105078a	1202005139	MAP	17/10 8:49	937046	10-1077	2	LANL	USE	S
EXP0105079a	243540002	MAP	17/10 9:18	937046	10-1077	2	LANL	USE	S
EXP0105080a	243540003	MAP	17/10 9:48	937046	10-1077	2	LANL	USE	S
EXP0105081a	243546001	MAP	17/10 10:17	937046	10-1083	2	LANL	USE	S
EXP0105082a	243546002	MAP	17/10 10:47	937046	10-1083	2	LANL	USE	S
EXP0105083a	243546003	MAP	17/10 11:16	937046	10-1083	2	LANL	USE	S
EXP0105084a	WXXCCV	MAP	17/10 11:46			1		USE	C
EXP0105085a	XIBLK09	MAP	17/10 12:15			1		USE	B
EXP0105086a	WXXCRI	MAP	17/10 12:45			1		USE	C
EXP0105087a	1202003503	MAP	17/10 13:32	936357	Various	2	LANL	USE	S
EXP0105088a	243406005	MAP	17/10 14:02	936357	10-1011	2	LANL	USE	S
EXP0105089a	243406006	MAP	17/10 14:31	936357	10-1011	2	LANL	USE	S
EXP0105090a	243406007	MAP	17/10 15:01	936357	10-1011	2	LANL	USE	S
EXP0105091a	243406010	MAP	17/10 15:30	936357	10-1011	2	LANL	USE	S
EXP0105092a	1202005138	MAP	17/10 16:00	937046	10-1077	2	LANL	USE	S
EXP0105093a	WXXCCV	MAP	17/10 16:29			1		USE	C
EXP0105094a	XIBLK10	MAP	17/10 16:59			1		USE	B
EXP0105095a	WXXCRI	MAP	17/10 17:28			1		USE	C
EXP0105096a	1202005126	MAP	17/10 17:58	937041	Various	2	LANL	USE	S
EXP0105097a	1202005127	MAP	17/10 18:27	937041	Various	2	LANL	USE	S
EXP0105098a	243517003	MAP	17/10 18:57	937041	10-1073	2	LANL	USE	S
EXP0105099a	243517004	MAP	17/10 19:26	937041	10-1073	2	LANL	USE	S
EXP0105100a	243517005	MAP	17/10 19:56	937041	10-1073	2	LANL	USE	S
EXP0105101a	243517006	MAP	17/10 20:25	937041	10-1073	2	LANL	USE	S
EXP0105102a	243517007	MAP	17/10 20:54	937041	10-1073	2	LANL	USE	S
EXP0105103a	243517008	MAP	17/10 21:24	937041	10-1073	2	LANL	USE	S

EXP0105104a	1202005624	MAP	17/10 21:54	937041	10-1073	2	LANL	USE	S
EXP0105105a	1202005625	MAP	17/10 22:23	937041	10-1073	2	LANL	DUSE-RA	S
EXP0105106a	WXXCVC	MAP	17/10 22:53			1		USE	C
EXP0105107a	XIBLK11	MAP	17/10 23:22			1		USE	B
EXP0105108a	WXXCRI	MAP	17/10 23:52			1		USE	C
EXP0105109a	243517009	MAP	18/10 0:21	937041	10-1073	2	LANL	USE	S
EXP0105110a	243519001	MAP	18/10 0:51	937041	10-1074	2	LANL	USE	S
EXP0105111a	243519002	MAP	18/10 1:20	937041	10-1074	2	LANL	USE	S
EXP0105112a	243519003	MAP	18/10 1:50	937041	10-1074	2	LANL	USE	S
EXP0105113a	243519004	MAP	18/10 2:19	937041	10-1074	2	LANL	USE	S
EXP0105114a	243519005	MAP	18/10 2:49	937041	10-1074	2	LANL	DUSE-RA	S
EXP0105115a	243519006	MAP	18/10 3:18	937041	10-1074	2	LANL	USE	S
EXP0105116a	243519007	MAP	18/10 3:48	937041	10-1074	2	LANL	DUSE-RA	S
EXP0105117a	243519008	MAP	18/10 4:17	937041	10-1074	2	LANL	USE	S
EXP0105118a	243519009	MAP	18/10 4:47	937041	10-1074	2	LANL	USE	S
EXP0105119a	WXXCVC	MAP	18/10 5:16			1		USE	C
EXP0105120a	XIBLK12	MAP	18/10 5:46			1		USE	B
EXP0105121a	WXXCRI	MAP	18/10 6:15			1		USE	C
EXP0105122a	243519010	MAP	18/10 6:45	937041	10-1074	2	LANL	DUSE-RA	S
EXP0105123a	243519011	MAP	18/10 7:14	937041	10-1074	2	LANL	DUSE-RA	S
EXP0105124a	XIBLK13	MAP	18/10 7:44			1		DUSE	B
EXP0105125a	1201998993	MAP	18/10 8:13	934323	Various	2	LANL	DUSE-RA	S
EXP0105126a	1201998994	MAP	18/10 8:43	934323	Various	2	LANL	DUSE-RA	S
EXP0105127a	243012005	MAP	18/10 9:12	934323	10-937	2	LANL	DUSE-RA	S
EXP0105128a	243016003	MAP	18/10 9:42	934323	10-932	2	LANL	DUSE-RA	S
EXP0105129a	1201998995	MAP	18/10 10:11	934323	10-932	2	LANL	DUSE-RA	S
EXP0105130a	1201998996	MAP	18/10 10:41	934323	10-932	2	LANL	DUSE-RA	S
EXP0105131a	243016007	MAP	18/10 11:10	934323	10-932	2	LANL	DUSE-RA	S
EXP0105132a	WXXCVC	MAP	18/10 11:40			1		DUSE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 01/08/10
 Extr. Injection Volume: 50uL
 Sequence Number: 010810expA
 Initial Calibration Date: 01/08/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX091201-01.4
 Mobile Phase Lot#: 1250684, 1236350
 Standard-Samp Reagent Lot#: 1246693, 1246195
 Reviewed BY: *AMC*
 Date: *2/29/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100108-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXP0108001a	XIBLK01	MAP	1/8/10 17:15			1		USE	B
EXP0108002a	XIBLK01	MAP	1/8/10 17:44			1		USE	B
EXP0108003a	WXXICAL-01	MAP	1/8/10 18:14			1		USE	I
EXP0108004a	WXXICAL-02	MAP	1/8/10 18:43			1		USE	I
EXP0108005a	WXXICAL-03	MAP	1/8/10 19:13			1		USE	I
EXP0108006a	WXXICAL-04	MAP	1/8/10 19:42			1		USE	I
EXP0108007a	WXXICAL-05	MAP	1/8/10 20:12			1		USE	I
EXP0108008a	WXXICAL-06	MAP	1/8/10 20:41			1		USE	I
EXP0108009a	XIBLK02	MAP	1/8/10 21:11			1		USE	B
EXP0108010a	WXXICV	MAP	1/8/10 21:40			1		USE	C
EXP0108011a	XIBLK03	MAP	1/8/10 22:10			1		USE	B
EXP0108012a	WXXCRI	MAP	1/8/10 22:39			1		USE	C
EXP0108013a	1202005625	MAP	1/8/10 23:09	937041	10-1073	2	LANL	USE	S
EXP0108014a	243519005	MAP	1/8/10 23:38	937041	10-1074	2	LANL	USE	S
EXP0108015a	243519007	MAP	1/9/10 0:08	937041	10-1074	2	LANL	USE	S
EXP0108016a	243519010	MAP	1/9/10 0:37	937041	10-1074	2	LANL	USE	S
EXP0108017a	243519011	MAP	1/9/10 1:07	937041	10-1074	2	LANL	USE	S
EXP0108018a	WXXCCV	MAP	1/9/10 1:36			1		USE	C
EXP0108019a	XIBLK04	MAP	1/9/10 2:05			1		USE	B
EXP0108020a	WXXCRI	MAP	1/9/10 2:35			1		USE	C
EXP0108021a	1201998993	MAP	1/9/10 3:04	934323	Various	2	LANL	USE	S
EXP0108022a	1201998994	MAP	1/9/10 3:34	934323	Various	2	LANL	USE	S
EXP0108023a	243012005	MAP	1/9/10 4:03	934323	10-937	2	LANL	USE	S
EXP0108024a	243016003	MAP	1/9/10 4:33	934323	10-932	2	LANL	USE	S
EXP0108025a	1201998995	MAP	1/9/10 5:02	934323	10-932	2	LANL	USE	S
EXP0108026a	1201998996	MAP	1/9/10 5:32	934323	10-932	2	LANL	USE	S
EXP0108027a	243016007	MAP	1/9/10 6:01	934323	10-932	2	LANL	USE	S
EXP0108028a	WXXCCV	MAP	1/9/10 6:31			1		USE	C
EXP0108029a	XIBLK05	MAP	1/9/10 7:00			1		USE	B
EXP0108030a	WXXCRI	MAP	1/9/10 7:30			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 01/05/10

Extr. Injection Volume: 10uL

Sequence Number: 010510exs

Initial Calibration Date: 010510 Standard-Samp Reagent Lot#: 1233976, 1246693

Method: 8321A-Modified

Int. Std.: N/A

Mobile Phase Lot#: 1236350, 1246467

Reviewed By: *Amc*

Date: 01/07/10

SOP: GL-OA-E-056 Rev.12

Alt Check Std. ID: WXX100105-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS01050001.wiff	XIBLK01	LER	1/5/2010 14:30			1		USE	B
EXS01050002.wiff	XIBLK01	LER	1/5/2010 14:46			1		USE	B
EXS01050003.wiff	WXXICAL-19	LER	1/5/2010 15:01			1		USE	I
EXS01050004.wiff	WXXICAL-20	LER	1/5/2010 15:17			1		USE	I
EXS01050005.wiff	WXXICAL-21	LER	1/5/2010 15:33			1		USE	I
EXS01050006.wiff	WXXICAL-22	LER	1/5/2010 15:49			1		USE	I
EXS01050007.wiff	WXXICAL-23	LER	1/5/2010 16:04			1		USE	I
EXS01050008.wiff	WXXICAL-24	LER	1/5/2010 16:20			1		USE	I
EXS01050009.wiff	WXXICAL-25	LER	1/5/2010 16:36			1		USE	I
EXS01050010.wiff	XIBLK02	LER	1/5/2010 16:51			1		USE	B
EXS01050011.wiff	WXXICV	LER	1/5/2010 17:07			1		USE	C
EXS01050012.wiff	XIBLK03	LER	1/5/2010 17:23			1		USE	B
EXS01050013.wiff	WXXCRI	LER	1/5/2010 17:38			1		USE	C
EXS01050014.wiff	1202005136	LER	1/5/2010 17:54	937046	VARIOUS	2	LANL	USE	S
EXS01050015.wiff	1202005137	LER	1/5/2010 18:10	937046	VARIOUS	2	LANL	USE	S
EXS01050016.wiff	243535001	LER	1/5/2010 18:25	937046	10-1078	2	LANL	USE	S
EXS01050017.wiff	243535002	LER	1/5/2010 18:41	937046	10-1078	2	LANL	USE	S
EXS01050018.wiff	243535003	LER	1/5/2010 18:57	937046	10-1078	2	LANL	USE	S
EXS01050019.wiff	243535004	LER	1/5/2010 19:13	937046	10-1078	2	LANL	USE	S
EXS01050020.wiff	243535005	LER	1/5/2010 19:28	937046	10-1078	2	LANL	USE	S
EXS01050021.wiff	243535006	LER	1/5/2010 19:44	937046	10-1078	2	LANL	USE	S
EXS01050022.wiff	243535007	LER	1/5/2010 20:00	937046	10-1078	2	LANL	USE	S
EXS01050023.wiff	243535008	LER	1/5/2010 20:15	937046	10-1078	2	LANL	USE	S
EXS01050024.wiff	WXXCCV	LER	1/5/2010 20:31			1		USE	C
EXS01050025.wiff	XIBLK04	LER	1/5/2010 20:47			1		USE	B
EXS01050026.wiff	WXXCRI	LER	1/5/2010 21:03			1		USE	C
EXS01050027.wiff	243535009	LER	1/5/2010 21:18	937046	10-1078	2	LANL	USE	S
EXS01050028.wiff	243535010	LER	1/5/2010 21:34	937046	10-1078	2	LANL	USE	S
EXS01050029.wiff	243540001	LER	1/5/2010 21:50	937046	10-1077	2	LANL	USE	S
EXS01050030.wiff	1202005138	LER	1/5/2010 22:05	937046	10-1077	2	LANL	USE	S

EXS01050031.wiff	1202005139	LER	1/5/2010 22:21	937046	10-1077	2	LANL	USE	S
EXS01050032.wiff	243540002	LER	1/5/2010 22:37	937046	10-1077	2	LANL	USE	S
EXS01050033.wiff	243540003	LER	1/5/2010 22:52	937046	10-1077	2	LANL	USE	S
EXS01050034.wiff	243546001	LER	1/5/2010 23:08	937046	10-1083	2	LANL	USE	S
EXS01050035.wiff	243546002	LER	1/5/2010 23:24	937046	10-1083	2	LANL	USE	S
EXS01050036.wiff	243546003	LER	1/5/2010 23:40	937046	10-1083	2	LANL	USE	S
EXS01050037.wiff	WXXCCV	LER	1/5/2010 23:55			1		USE	C
EXS01050038.wiff	XIBLK05	LER	1/6/2010 0:11			1		USE	B
EXS01050039.wiff	WXXCRI	LER	1/6/2010 0:27			1		USE	C
EXS01050040.wiff	1202005126	LER	1/6/2010 0:42	937041	VARIOUS	2	LANL	USE	S
EXS01050041.wiff	1202005127	LER	1/6/2010 0:58	937041	VARIOUS	2	LANL	USE	S
EXS01050042.wiff	243517003	LER	1/6/2010 1:14	937041	10-1073	2	LANL	USE	S
EXS01050043.wiff	243517004	LER	1/6/2010 1:29	937041	10-1073	2	LANL	USE	S
EXS01050044.wiff	243517005	LER	1/6/2010 1:45	937041	10-1073	2	LANL	USE	S
EXS01050045.wiff	243517006	LER	1/6/2010 2:01	937041	10-1073	2	LANL	USE	S
EXS01050046.wiff	243517007	LER	1/6/2010 2:17	937041	10-1073	2	LANL	USE	S
EXS01050047.wiff	243517008	LER	1/6/2010 2:32	937041	10-1073	2	LANL	USE	S
EXS01050048.wiff	1202005624	LER	1/6/2010 2:48	937041	10-1073	2	LANL	USE	S
EXS01050049.wiff	1202005625	LER	1/6/2010 3:04	937041	10-1073	2	LANL	USE	S
EXS01050050.wiff	WXXCCV	LER	1/6/2010 3:19			1		USE	C
EXS01050051.wiff	XIBLK06	LER	1/6/2010 3:35			1		USE	B
EXS01050052.wiff	WXXCRI	LER	1/6/2010 3:51			1		USE	C
EXS01050053.wiff	243517009	LER	1/6/2010 4:07	937041	10-1073	2	LANL	USE	S
EXS01050054.wiff	243519001	LER	1/6/2010 4:22	937041	10-1074	2	LANL	USE	S
EXS01050055.wiff	243519002	LER	1/6/2010 4:38	937041	10-1074	2	LANL	USE	S
EXS01050056.wiff	243519003	LER	1/6/2010 4:54	937041	10-1074	2	LANL	USE	S
EXS01050057.wiff	243519004	LER	1/6/2010 5:09	937041	10-1074	2	LANL	USE	S
EXS01050058.wiff	243519005	LER	1/6/2010 5:25	937041	10-1074	2	LANL	USE	S
EXS01050059.wiff	243519006	LER	1/6/2010 5:41	937041	10-1074	2	LANL	USE	S
EXS01050060.wiff	243519007	LER	1/6/2010 5:56	937041	10-1074	2	LANL	USE	S
EXS01050061.wiff	243519008	LER	1/6/2010 6:12	937041	10-1074	2	LANL	USE	S
EXS01050062.wiff	243519009	LER	1/6/2010 6:28	937041	10-1074	2	LANL	USE	S
EXS01050063.wiff	WXXCCV	LER	1/6/2010 6:44			1		USE	C
EXS01050064.wiff	XIBLK07	LER	1/6/2010 6:59			1		USE	B
EXS01050065.wiff	WXXCRI	LER	1/6/2010 7:15			1		USE	C
EXS01050066.wiff	243519010	LER	1/6/2010 7:31	937041	10-1074	2	LANL	USE	S
EXS01050067.wiff	243519011	LER	1/6/2010 7:46	937041	10-1074	2	LANL	USE	S

EXS01050068.wiff	XIBLK08	LER	1/6/2010 8:02	SCREEN	SOLID	1		USE	B
EXS01050069.wiff	kaolin screen	LER	1/6/2010 8:18			1	O2Si	USE	C
EXS01050070.wiff	WXXCCV	LER	1/6/2010 8:34			1		USE	C
EXS01050071.wiff	XIBLK08	LER	1/6/2010 8:49			1		USE	B
EXS01050072.wiff	WXXCRI	LER	1/6/2010 9:05			1		USE	C
EXS01050073.wiff	1202005106	LER	1/6/2010 9:21	937031	VARIOUS	2	LANL	USE	S
EXS01050074.wiff	1202005107	LER	1/6/2010 9:36	937031	VARIOUS	2	LANL	USE	S
EXS01050075.wiff	243457001	LER	1/6/2010 9:52	937031	10-1038	2	LANL	USE	S
EXS01050076.wiff	1202005108	LER	1/6/2010 10:08	937031	10-1038	2	LANL	USE	S
EXS01050077.wiff	1202005109	LER	1/6/2010 10:24	937031	10-1038	2	LANL	USE	S
EXS01050078.wiff	243457002	LER	1/6/2010 10:39	937031	10-1038	2	LANL	USE	S
EXS01050079.wiff	243457003	LER	1/6/2010 10:55	937031	10-1038	2	LANL	USE	S
EXS01050080.wiff	243457004	LER	1/6/2010 11:11	937031	10-1038	2	LANL	USE	S
EXS01050081.wiff	243502001	LER	1/6/2010 11:26	937031	10-1065	2	LANL	USE	S
EXS01050082.wiff	243502002	LER	1/6/2010 11:42	937031	10-1065	2	LANL	USE	S
EXS01050083.wiff	WXXCCV	LER	1/6/2010 11:58			1		USE	C
EXS01050084.wiff	XIBLK09	LER	1/6/2010 12:13			1		USE	B
EXS01050085.wiff	WXXCRI	LER	1/6/2010 12:29			1		USE	C
EXS01050086.wiff	243502003	LER	1/6/2010 12:45	937031	10-1065	2	LANL	USE	S
EXS01050087.wiff	243502004	LER	1/6/2010 13:01	937031	10-1065	2	LANL	USE	S
EXS01050088.wiff	243502005	LER	1/6/2010 13:16	937031	10-1065	2	LANL	USE	S
EXS01050089.wiff	243502006	LER	1/6/2010 13:32	937031	10-1065	2	LANL	USE	S
EXS01050090.wiff	243502007	LER	1/6/2010 13:48	937031	10-1065	2	LANL	USE	S
EXS01050091.wiff	243502008	LER	1/6/2010 14:03	937031	10-1065	2	LANL	USE	S
EXS01050092.wiff	243509001	LER	1/6/2010 14:19	937031	10-1069	2	LANL	USE	S
EXS01050093.wiff	243509002	LER	1/6/2010 14:35	937031	10-1069	2	LANL	USE	S
EXS01050094.wiff	243509003	LER	1/6/2010 14:50	937031	10-1069	2	LANL	USE	S
EXS01050095.wiff	WXXCCV	LER	1/6/2010 15:06			1		USE	C
EXS01050096.wiff	XIBLK10	LER	1/6/2010 15:28			1		USE	B
EXS01050097.wiff	WXXCRI	LER	1/6/2010 15:44			1		USE	C
EXS01050098.wiff	1202004626	LER	1/6/2010 15:59	936890	VARIOUS	2	LANL	USE	S
EXS01050099.wiff	1202004627	LER	1/6/2010 16:15	936890	VARIOUS	2	LANL	USE	S
EXS01050100.wiff	243490001	LER	1/6/2010 16:31	936890	10-1036	2	LANL	USE	S
EXS01050101.wiff	1202004628	LER	1/6/2010 16:47	936890	10-1036	2	LANL	USE	S
EXS01050102.wiff	1202004629	LER	1/6/2010 17:02	936890	10-1036	2	LANL	USE	S
EXS01050103.wiff	243490002	LER	1/6/2010 17:18	936890	10-1036	2	LANL	USE	S
EXS01050104.wiff	243490003	LER	1/6/2010 17:34	936890	10-1036	2	LANL	USE	S

EXS01050105.wiff	243490004	LER	1/6/2010 17:49	936890	10-1036	2	LANL	USE	S
EXS01050106.wiff	243490005	LER	1/6/2010 18:05	936890	10-1036	2	LANL	USE	S
EXS01050107.wiff	243490006	LER	1/6/2010 18:21	936890	10-1036	2	LANL	USE	S
EXS01050108.wiff	WXXCCV	LER	1/6/2010 18:37			1		USE	C
EXS01050109.wiff	XIBLK11	LER	1/6/2010 18:52			1		USE	B
EXS01050110.wiff	WXXCRI	LER	1/6/2010 19:08			1		USE	C
EXS01050111.wiff	243490007	LER	1/6/2010 19:24	936890	10-1036	2	LANL	USE	S
EXS01050112.wiff	243543001	LER	1/6/2010 19:39	936890	10-1081	2	LANL	USE	S
EXS01050113.wiff	XIBLK12	LER	1/6/2010 19:55			1		USE	B
EXS01050114.wiff	UXX091229-02.1	LER	1/6/2010 20:11	SCREEN	SOLID	2	O2SI	USE	S
EXS01050115.wiff	XIBLK13	LER	1/6/2010 20:26			1		USE	B
EXS01050116.wiff	1202006213	LER	1/6/2010 20:42	937556	VARIOUS	2	LANL	USE	S
EXS01050117.wiff	1202006214	LER	1/6/2010 20:58	937556	VARIOUS	2	LANL	USE	S
EXS01050118.wiff	243611001	LER	1/6/2010 21:14	937556	10-1096	2	LANL	USE	S
EXS01050119.wiff	1202006215	LER	1/6/2010 21:29	937556	10-1096	2	LANL	USE	S
EXS01050120.wiff	1202006216	LER	1/6/2010 21:45	937556	10-1096	2	LANL	USE	S
EXS01050121.wiff	WXXCCV	LER	1/6/2010 22:01			1		USE	C
EXS01050122.wiff	XIBLK14	LER	1/6/2010 22:16			1		USE	B
EXS01050123.wiff	WXXCRI	LER	1/6/2010 22:32			1		USE	C
EXS01050124.wiff	243611002	LER	1/6/2010 22:48	937556	10-1096	2	LANL	USE	S
EXS01050125.wiff	243611003	LER	1/6/2010 23:03	937556	10-1096	2	LANL	USE	S
EXS01050126.wiff	243615001	LER	1/6/2010 23:19	937556	10-1098-1	2	LANL	USE	S
EXS01050127.wiff	243615002	LER	1/6/2010 23:35	937556	10-1098-1	2	LANL	USE	S
EXS01050128.wiff	243615003	LER	1/6/2010 23:50	937556	10-1098-1	2	LANL	USE	S
EXS01050129.wiff	243615004	LER	1/7/2010 0:06	937556	10-1098-1	2	LANL	USE	S
EXS01050130.wiff	243615005	LER	1/7/2010 0:22	937556	10-1098-1	2	LANL	USE	S
EXS01050131.wiff	243615006	LER	1/7/2010 0:38	937556	10-1098-1	2	LANL	USE	S
EXS01050132.wiff	243615007	LER	1/7/2010 0:53	937556	10-1098-1	2	LANL	USE	S
EXS01050133.wiff	243615008	LER	1/7/2010 1:09	937556	10-1098-1	2	LANL	USE	S
EXS01050134.wiff	WXXCCV	LER	1/7/2010 1:25			1		USE	C
EXS01050135.wiff	XIBLK15	LER	1/7/2010 1:40			1		USE	B
EXS01050136.wiff	WXXCRI	LER	1/7/2010 1:56			1		USE	C
EXS01050137.wiff	243615009	LER	1/7/2010 2:12	937556	10-1098-1	2	LANL	USE	S
EXS01050138.wiff	WXXCCV	LER	1/7/2010 2:27			1		USE	C
EXS01050139.wiff	XIBLK16	LER	1/7/2010 2:43			1		USE	B
EXS01050140.wiff	WXXCRI	LER	1/7/2010 2:59			1		USE	C

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

Dataset: C:\MASSLYNX\New_Exp_PRO\010510expA2.qld, Time: Fri Jan 08 08:07:47 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\IData\EXP0105104a

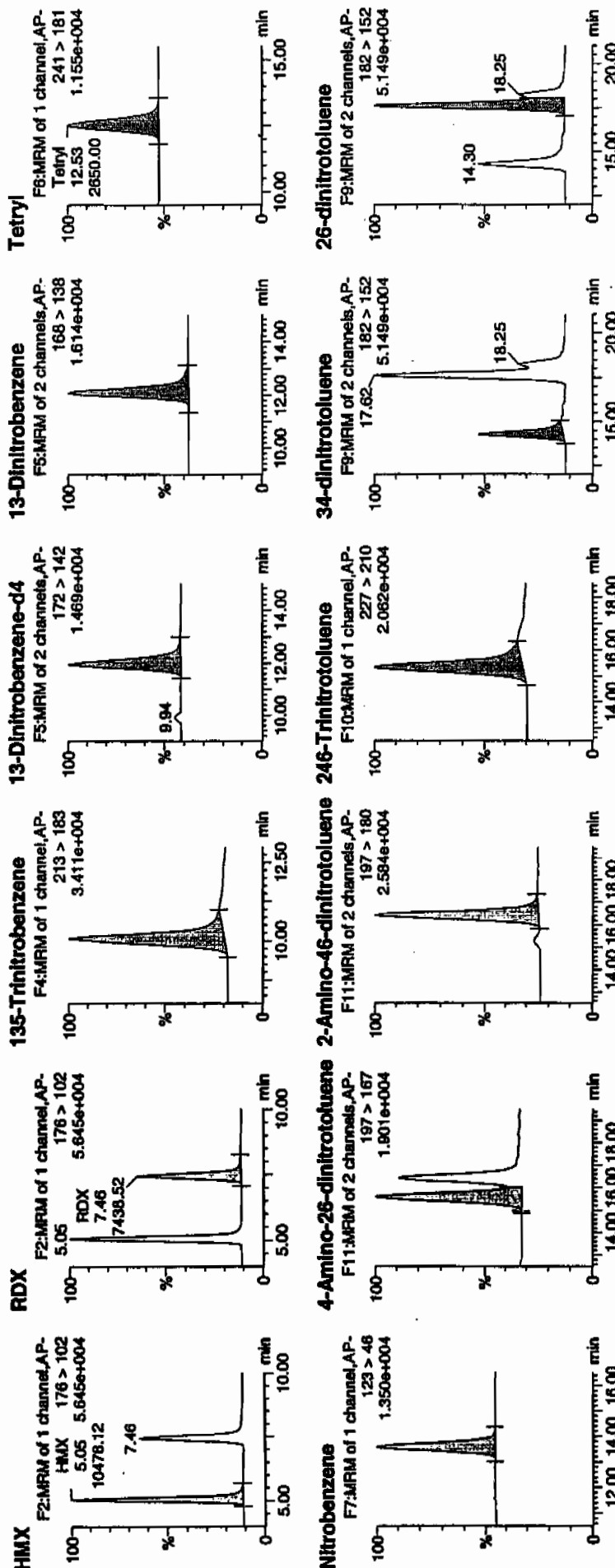
Date: 07-Jan-2010

Time: 21:54:14

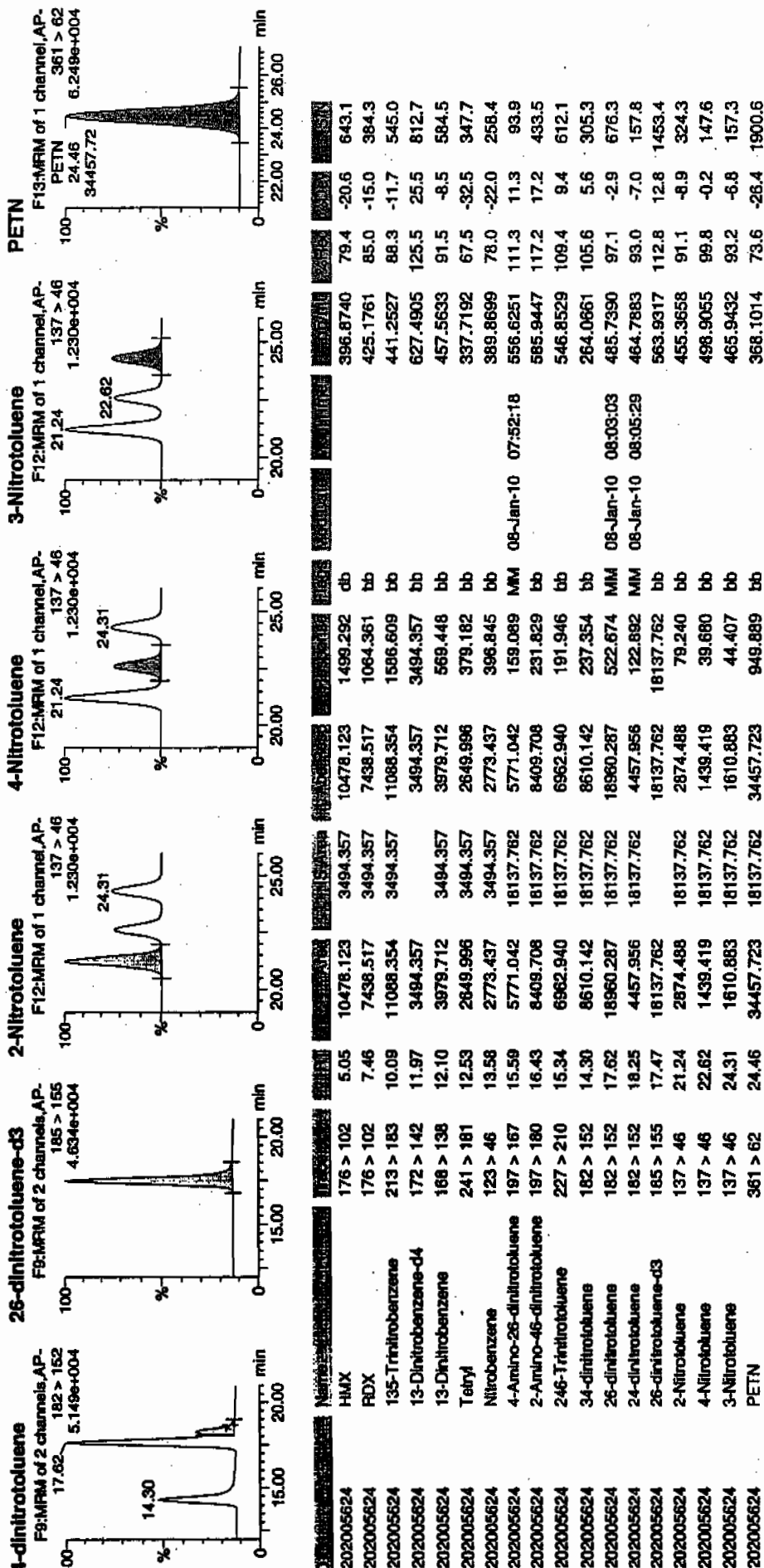
ID: 1202005624

Vial: 3:2,C

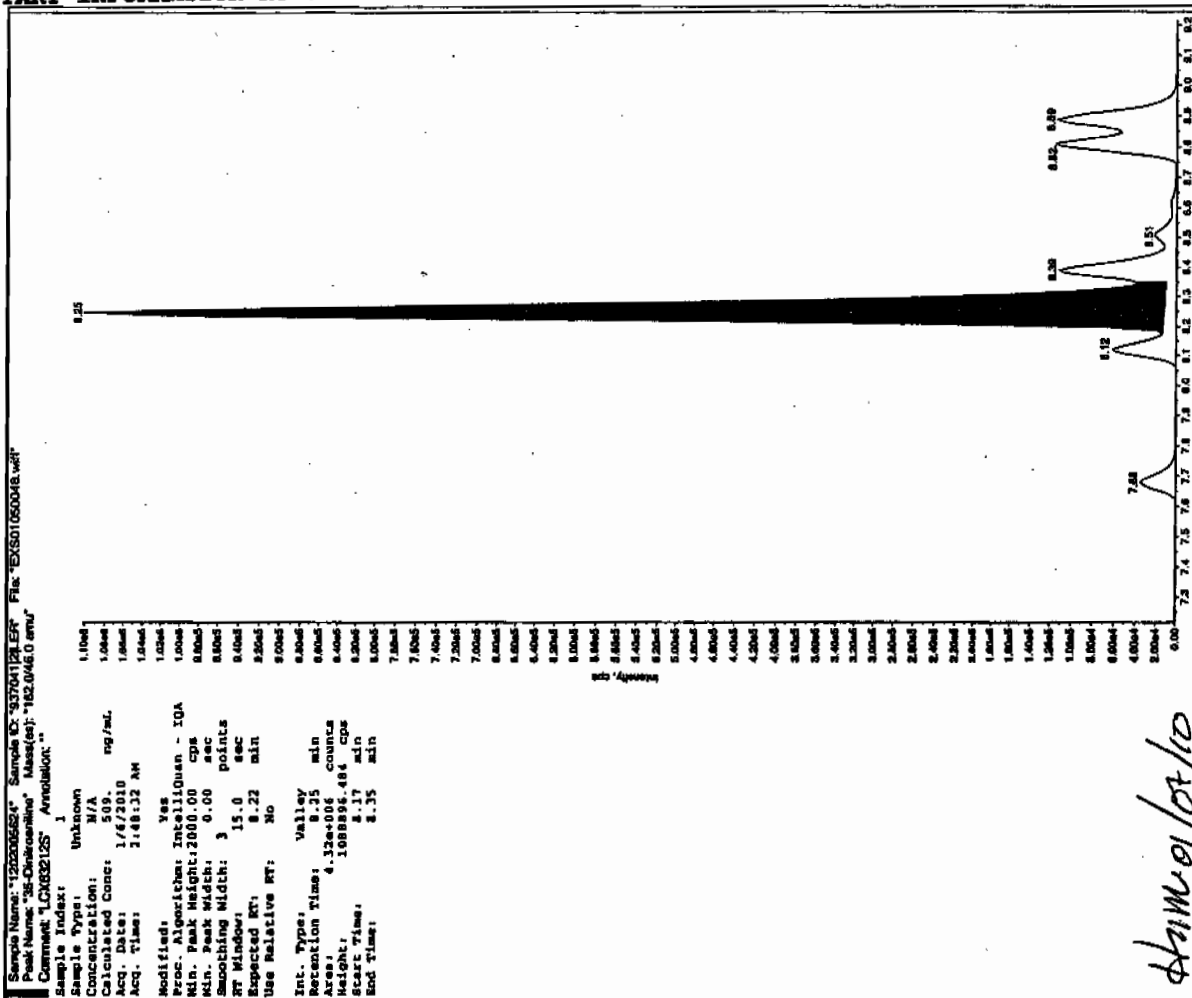
WAT
1/8/10
WAV/937041 / saved / 24351700849 / 21



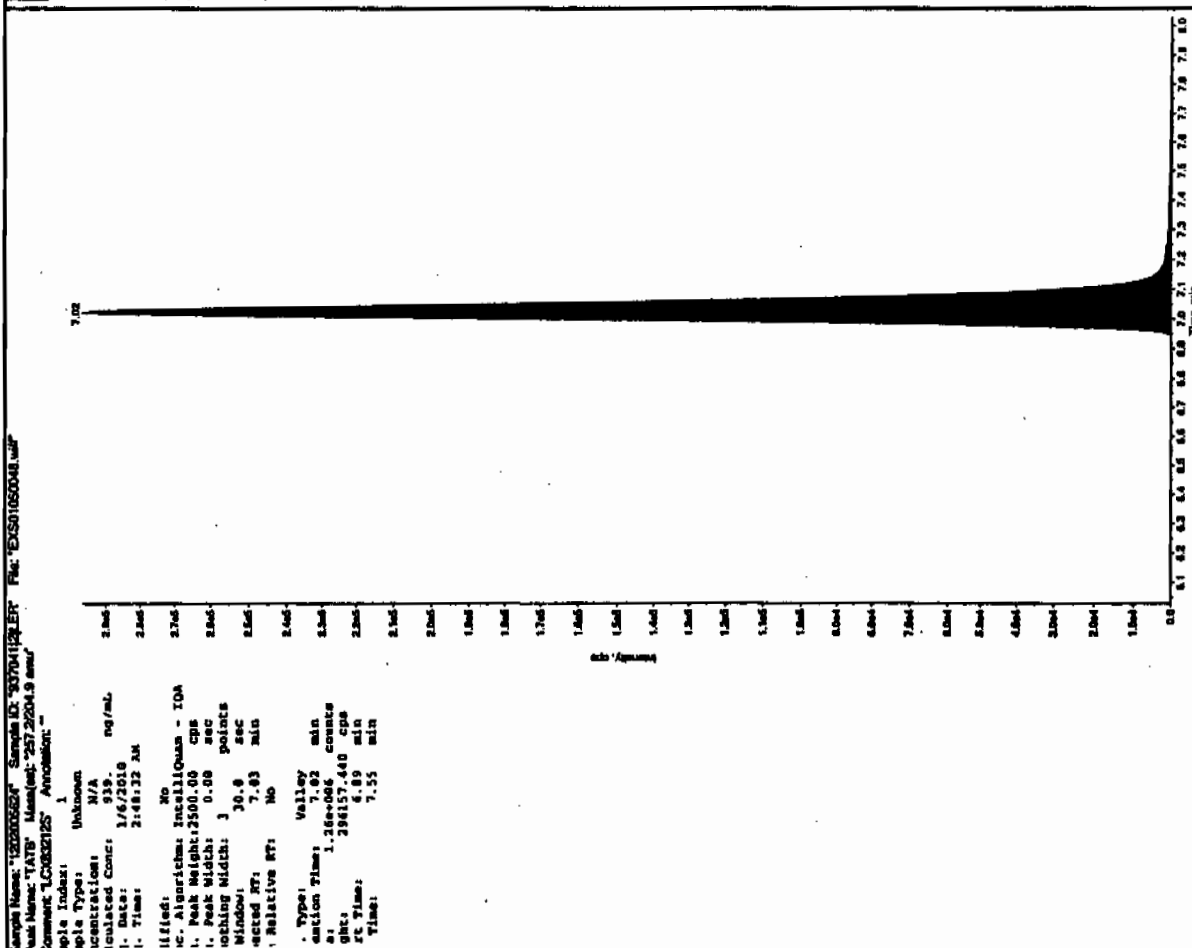
AMM 01/09/10

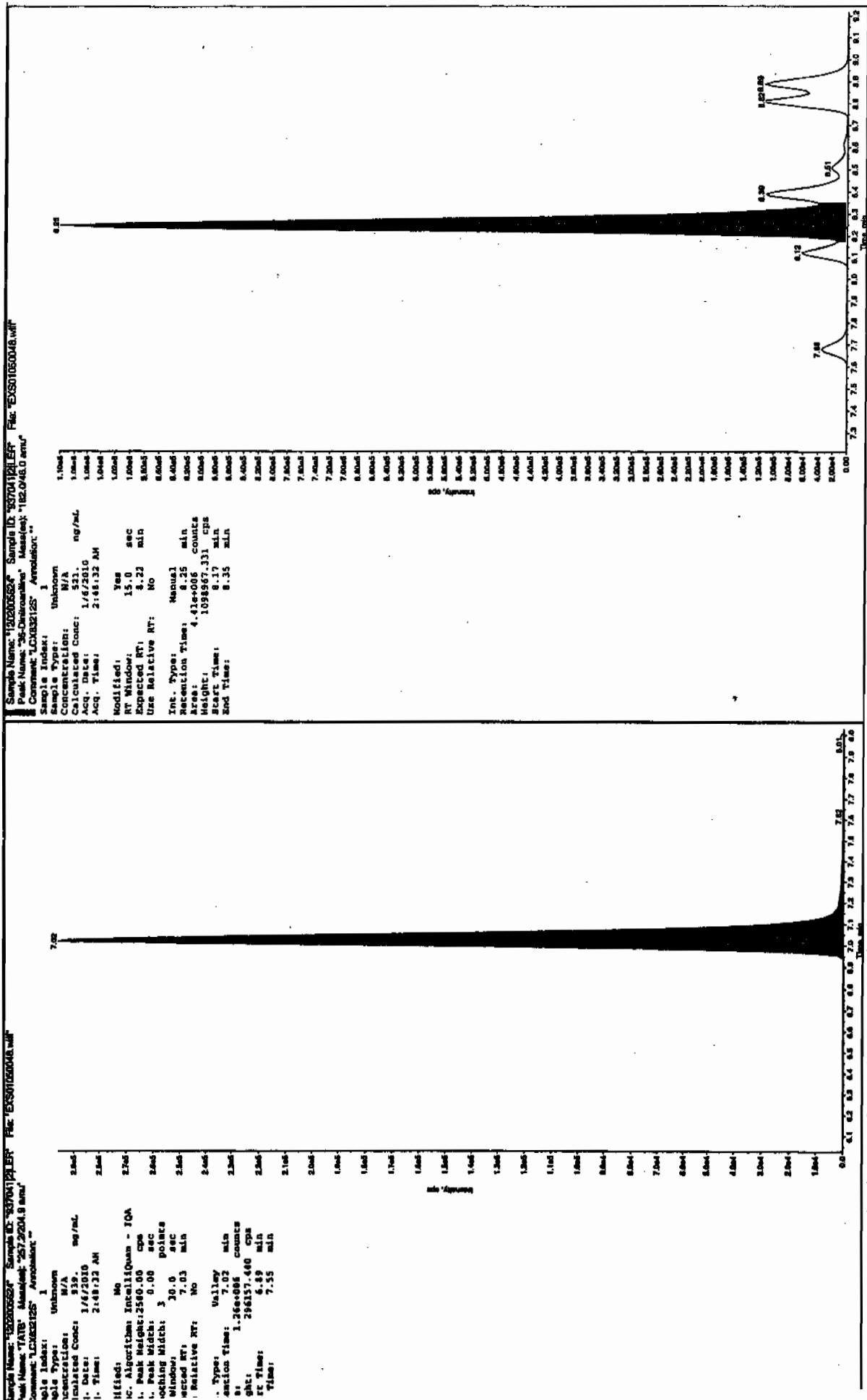


11/11/10
Debra

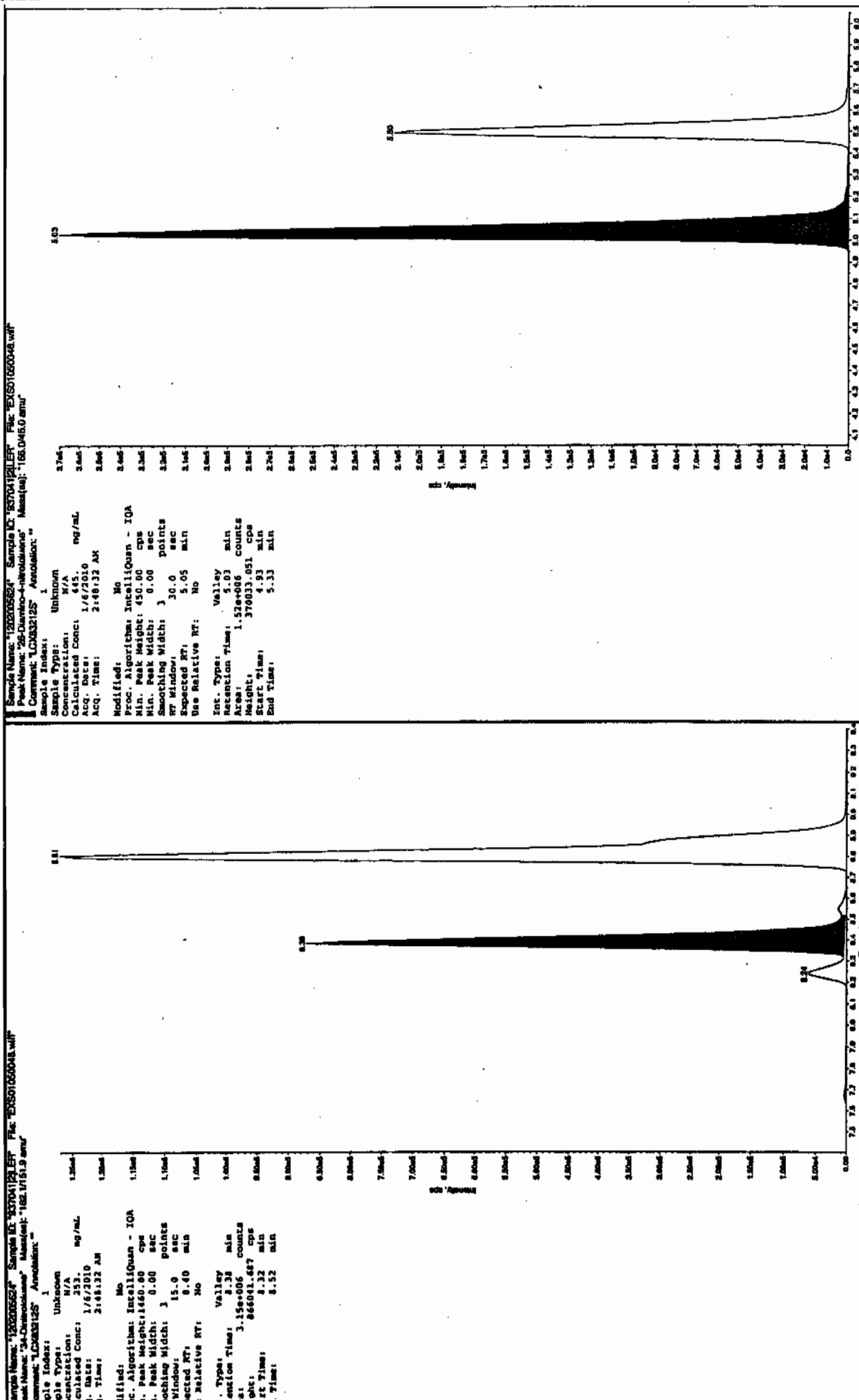


4/11/10/01/01/10

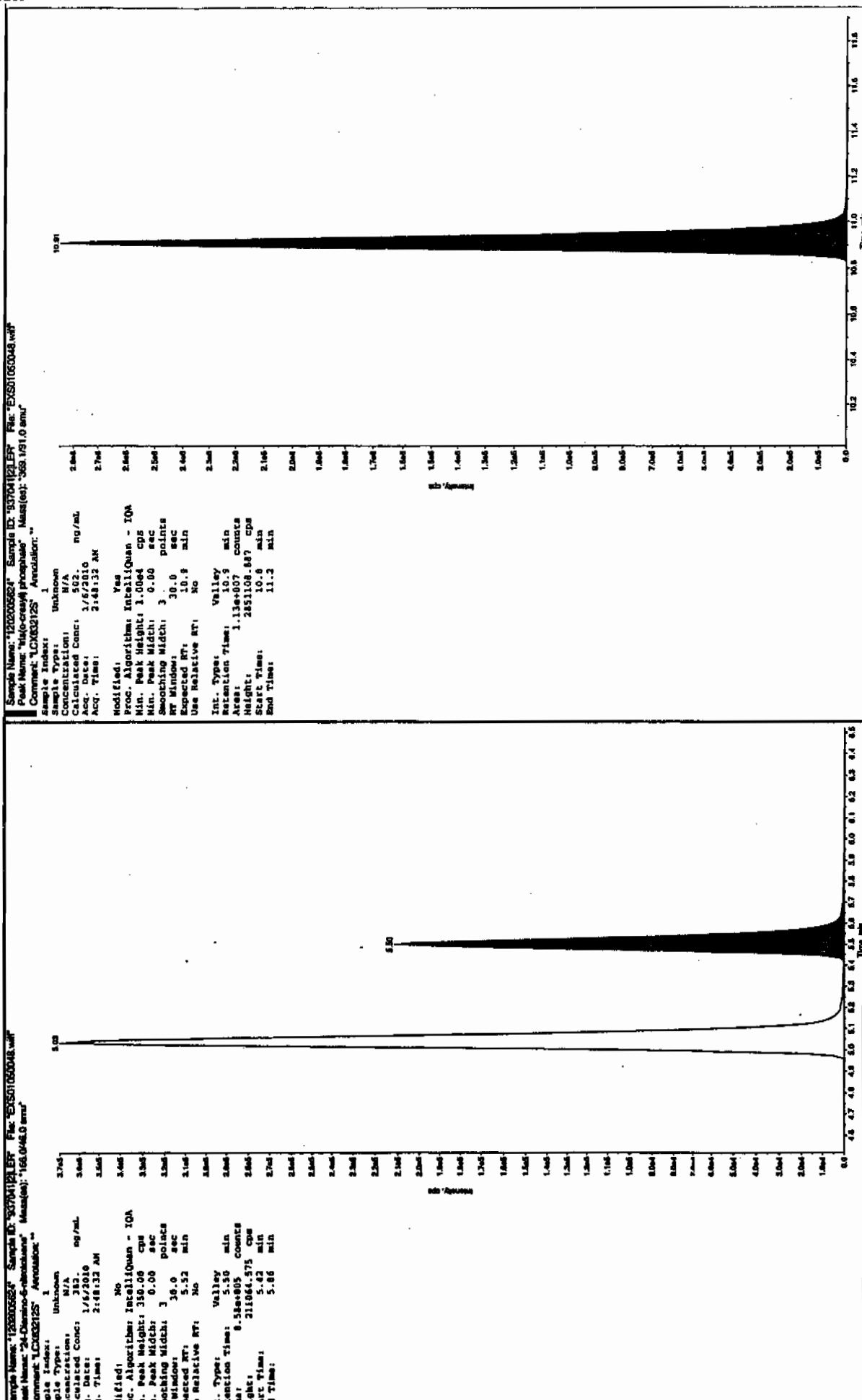




L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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



Printed: Sat Jan 09 12:02:23 2010, Page 25 of 61

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

Dataset: C:\MASSLYNX\New_Exp.PRO\10810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0108013a

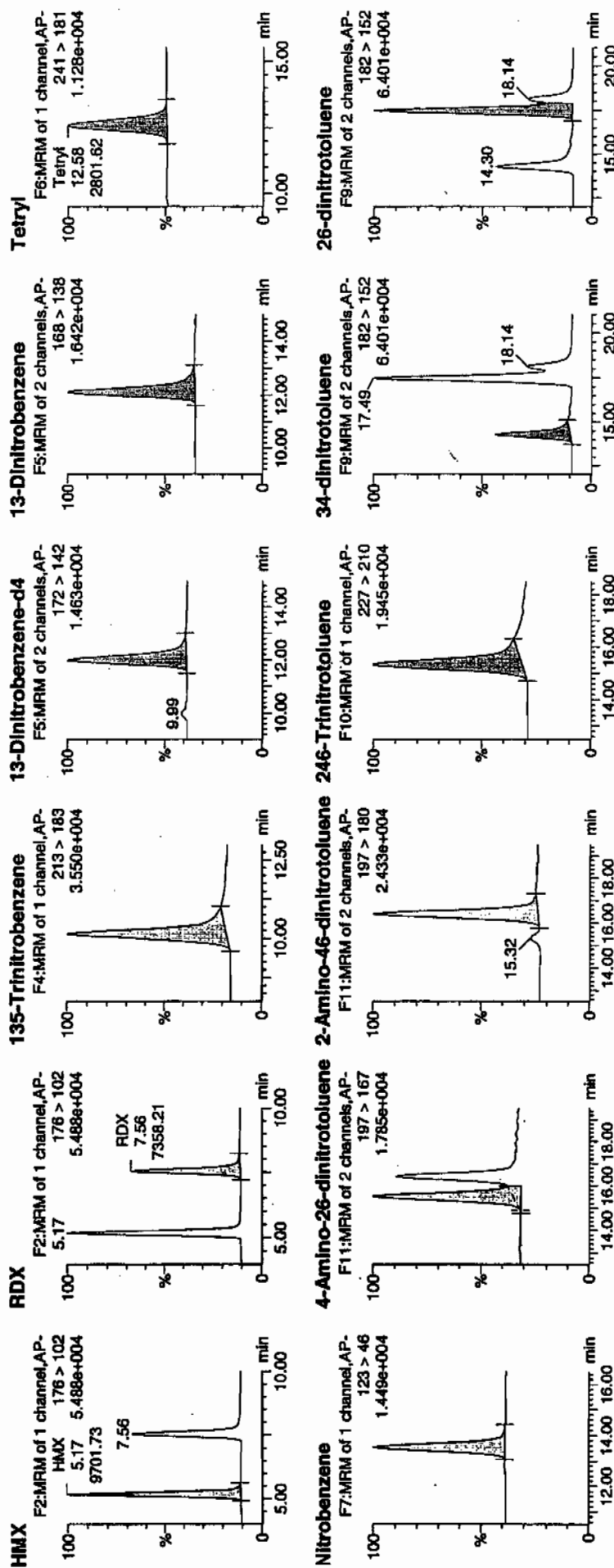
Date: 08-Jan-2010

Time: 23:09:03

ID: 1202005625

Vial: 1:4,A

1/9/10
21
243577008USD / 21
1937041 / Sizes

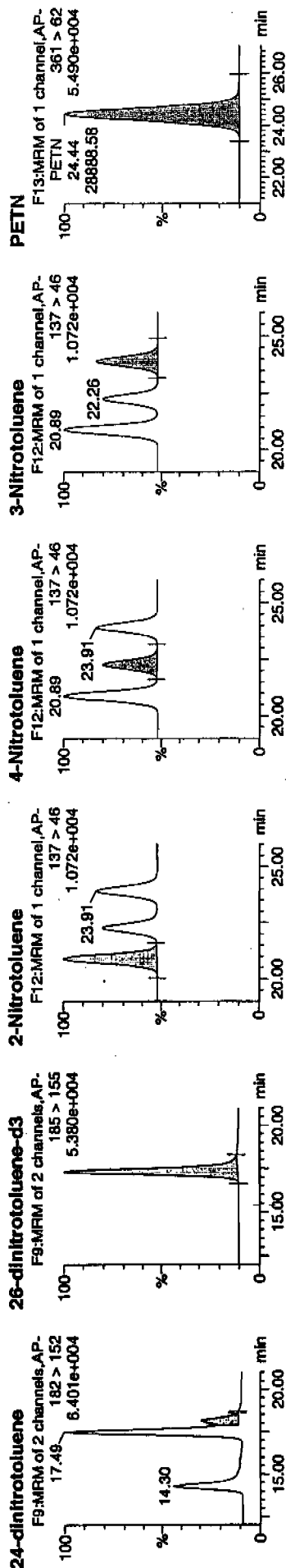


Stamm 01/09/10

Quantify Sample Report

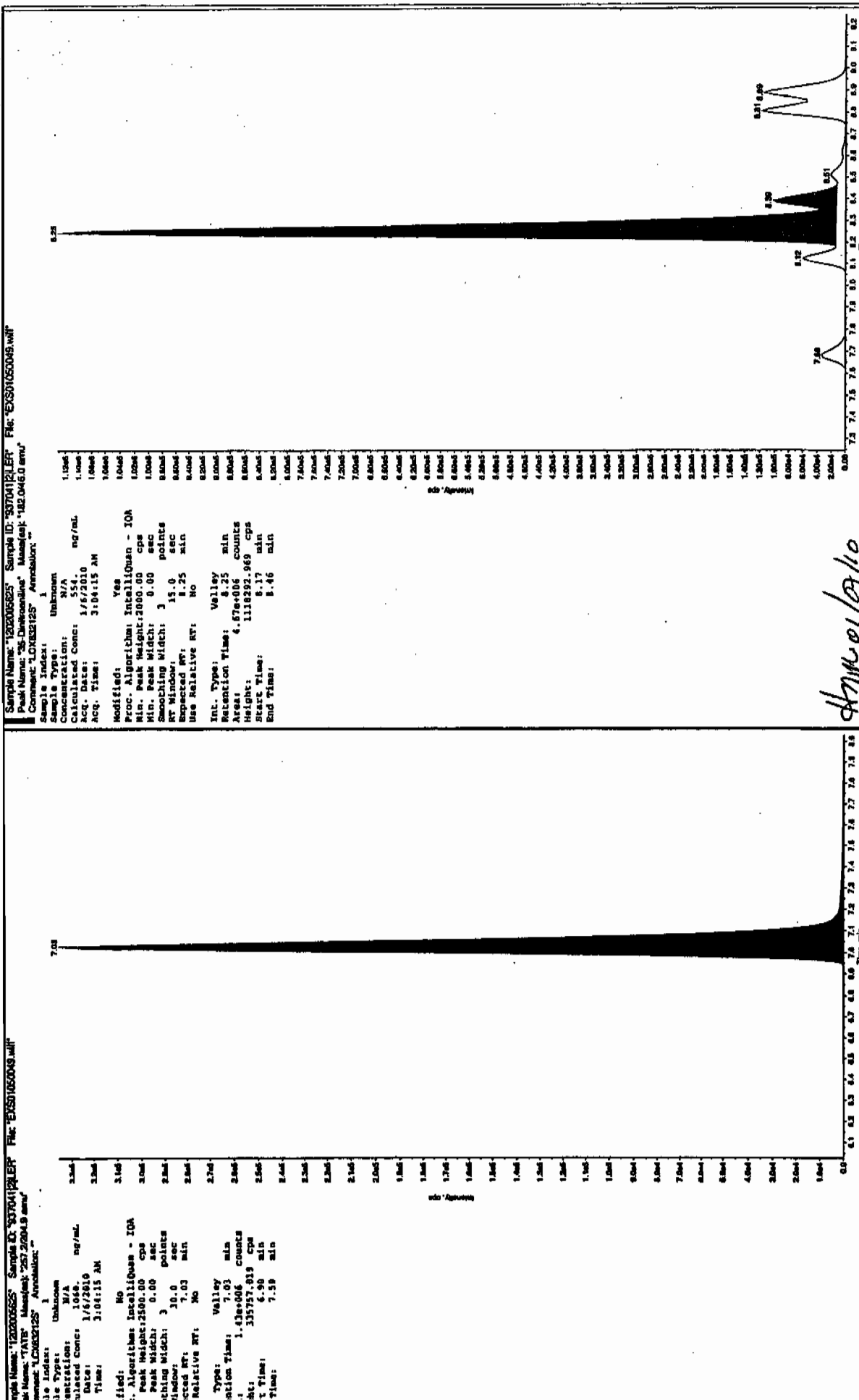
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



NAME	MOLECULAR WEIGHT	MW	MP	BP	DENSITY	REFRACTIVE INDEX	LOG P	TOXICITY	ENVIRONMENTAL FATE	USE		
HMX	1202005625	176 > 102	5.17	9701.727	3624.321	9701.727	1338.420	bb	405.3084	81.1	-18.9	1386.5
RDX	1202005625	176 > 102	7.56	7358.206	3624.321	7358.206	1015.115	bb	414.6820	82.9	-17.1	889.2
135-Trinitrobenzene	1202005625	213 > 183	10.14	11246.938	3624.321	11246.938	1551.592	bb	448.8207	89.8	-10.2	709.0
13-Dinitrobenzene-d4	1202005625	172 > 142	11.97	3624.321	3624.321	3624.321	3624.321	bb	618.5842	123.7	23.7	286.2
13-Dinitrobenzene	1202005625	168 > 138	12.10	4284.856	3624.321	4284.856	591.125	bb	481.7543	96.4	-3.6	289.2
Tetryl	1202005625	241 > 181	12.58	2801.616	3624.321	2801.616	386.502	bb	356.3361	71.3	-28.7	258.7
Nitrobenzene	1202005625	123 > 46	13.54	3259.979	3624.321	3259.979	449.737	bb	455.9339	91.2	-8.8	412.9
4-Amino-2,6-dinitrotoluene	1202005625	197 > 167	15.53	5290.541	21071.504	5290.541	125.538	MM	445.2171	89.0	-11.0	142.8
2-Amino-4,6-dinitrotoluene	1202005625	197 > 180	16.40	7688.083	21071.504	7688.083	162.428	bb	495.3681	99.1	-0.9	539.7
3,4-Trinitrotoluene	1202005625	227 > 210	15.34	6457.994	21071.504	6457.994	153.240	bb	473.4169	94.7	-5.3	155.8
24-dinitrotoluene	1202005625	182 > 152	14.30	9238.007	21071.504	9238.007	219.206	bb	244.3311	97.7	-2.3	135.8
26-dinitrotoluene	1202005625	182 > 152	17.49	22546.900	21071.504	22546.900	535.009	MM	472.6488	94.5	-5.5	360.3
24-dinitrotoluene	1202005625	182 > 152	18.14	5010.514	21071.504	5010.514	118.893	MM	487.5548	97.5	-2.5	73.7
26-dinitrotoluene-d3	1202005625	185 > 155	17.29	21071.504	21071.504	21071.504	21071.504	bb	623.9227	124.8	24.8	1470.8
2-Nitrotoluene	1202005625	137 > 46	20.89	2561.915	21071.504	2561.915	60.791	bb	393.2510	78.7	-21.3	561.8
4-Nitrotoluene	1202005625	137 > 46	22.26	1436.558	21071.504	1436.558	34.088	bb	403.8359	80.8	-19.2	328.3
3-Nitrotoluene	1202005625	137 > 46	23.91	1712.883	21071.504	1712.883	40.645	bb	405.7828	81.2	-18.8	365.7
PETN	1202005625	361 > 62	24.44	28888.576	21071.504	28888.576	685.489	bb	435.1560	87.0	-13.0	7535.9

1/14/11
not for
release



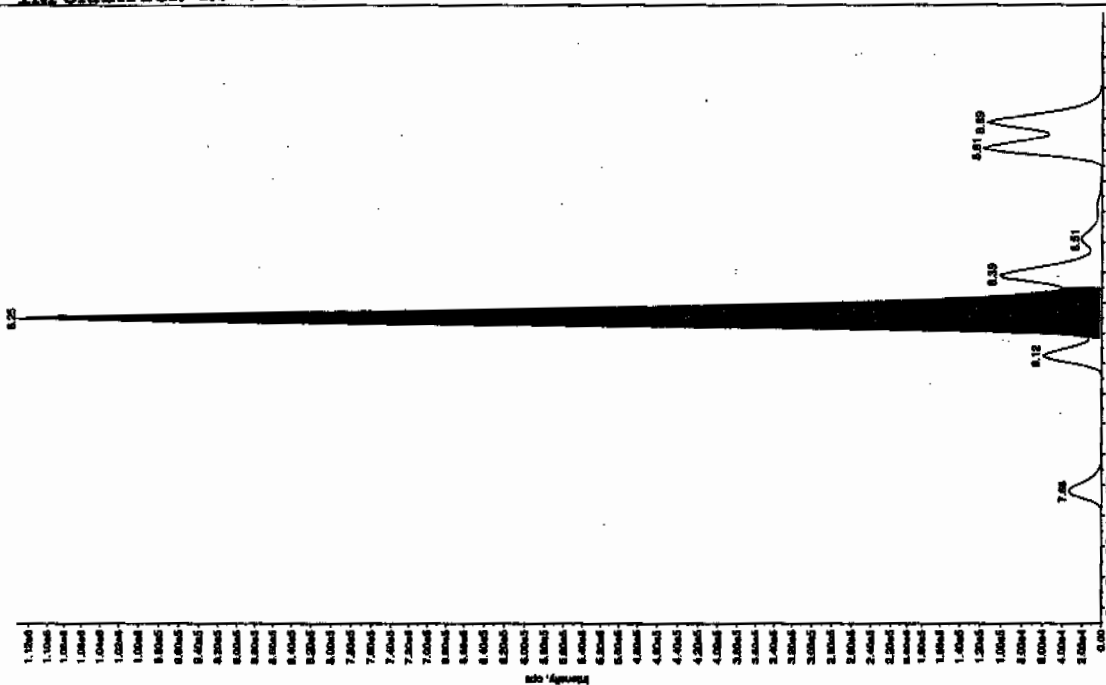
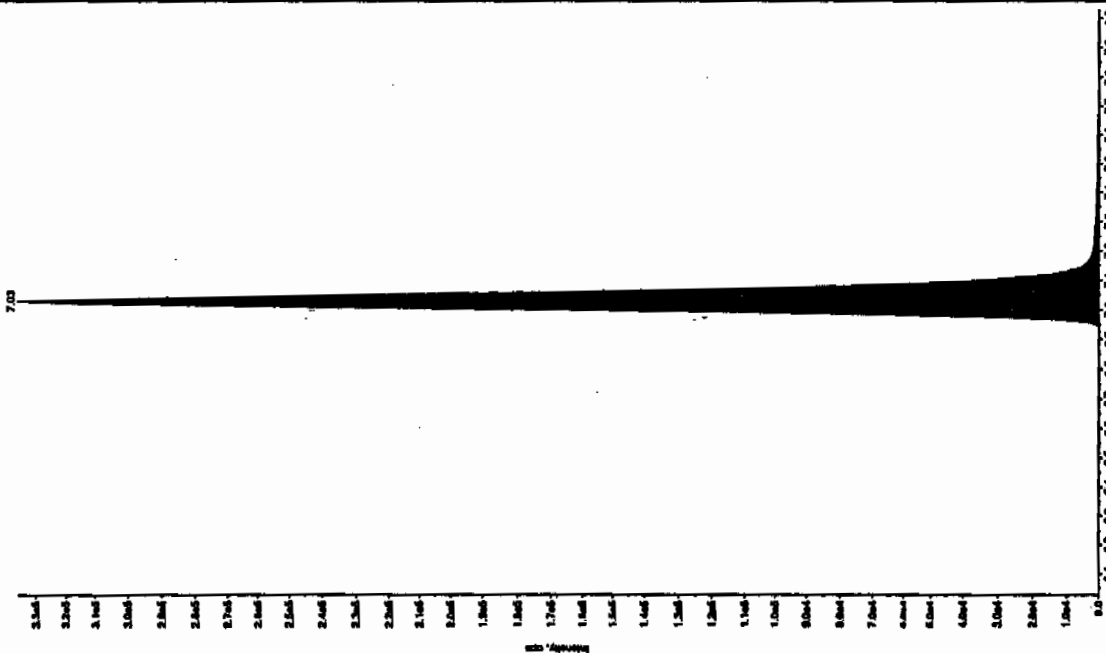
8/11/10

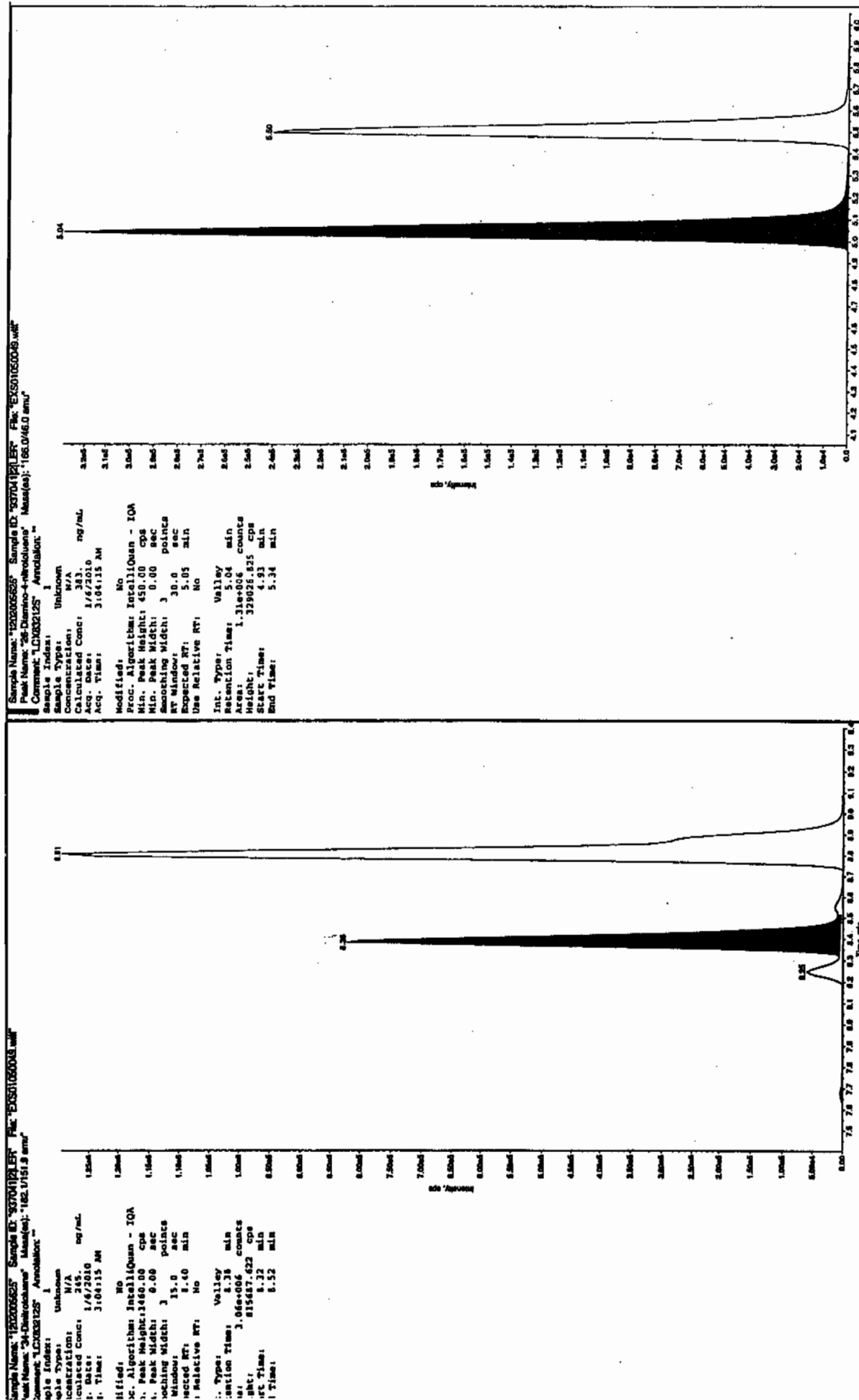
01/16/10
2440
2440

Sample Name: "1250000525" Sample ID: "83704121ER" File: "EX001050048.wdf"
Peak Name: "TATB" Mass(es): "257.2004.9 amu"
Comment: "LCMS32125" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A ng/mL
Calculated Conc: 1040
Acq. Date: 1/6/2010
Acq. Time: 3:04:15 AM
Modified: No
RT Window: 10.0 sec
Expected RT: 8.25 min
Use Relative RT: No
Inc. Type: Manual
Retention Time: 8.25 min
Area: 4.47e+006 counts
Height: 113851.574 cps
Start Time: 8.19 min
End Time: 8.35 min

Sample Index: 1
Sample Type: Unknown
Concentration: N/A ng/mL
Calculated Conc: 1040
Acq. Date: 1/6/2010
Acq. Time: 3:04:15 AM
Modified: No
RT Window: 10.0 sec
Expected RT: 8.25 min
Use Relative RT: No
Inc. Type: Manual
Retention Time: 8.25 min
Area: 4.47e+006 counts
Height: 113851.574 cps
Start Time: 8.19 min
End Time: 8.35 min

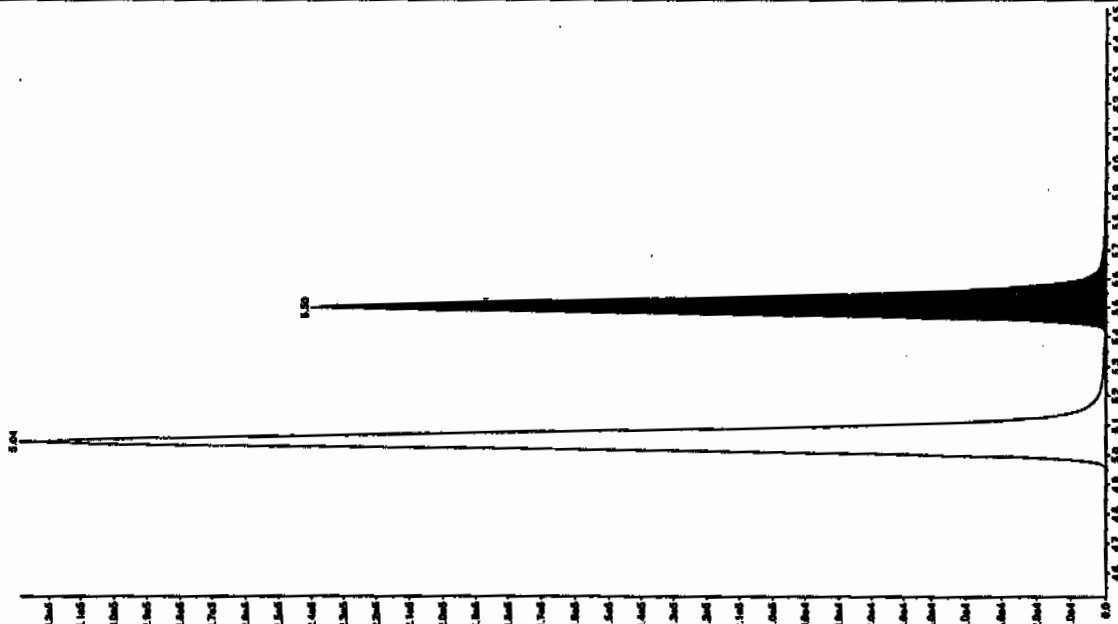




EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

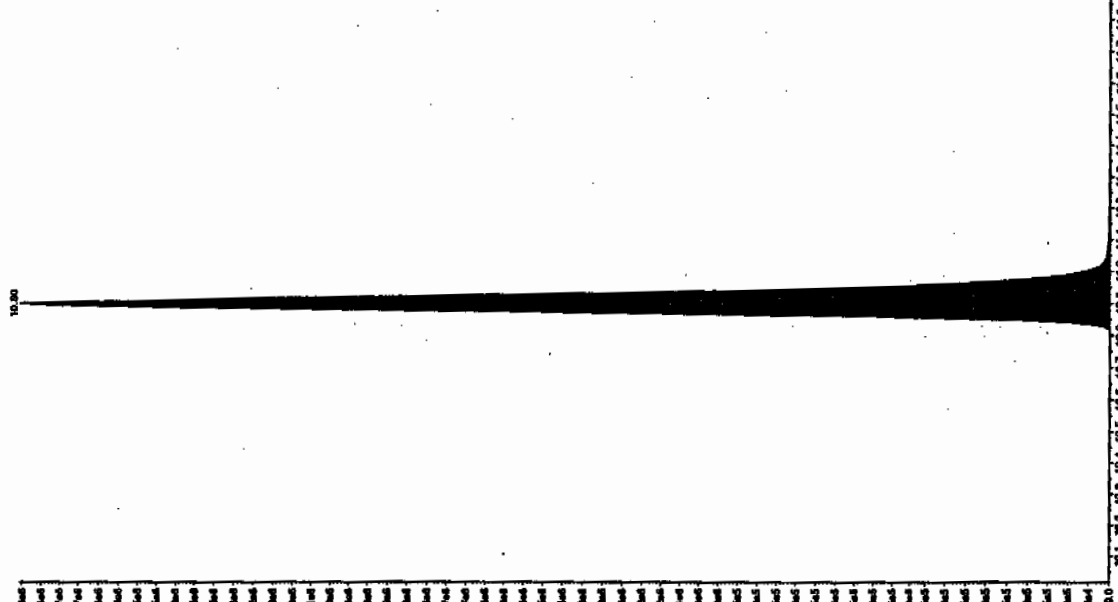
Sample Name: "1200000000" Sample ID: "93704121" File: "EX001050048.mpl"
 Peak Name: "24-Dimethyl-6-aminopurine" Mass(es): "166.046.0 amu"
 Comment: "LCMS03125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.000 mg/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:04:15 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 In. Peak Height: 150.00 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.52 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.50 min
 Height: 5.65e5 counts
 Weight: 23995.813 cps
 Start Time: 5.39 min
 End Time: 6.00 min



Sample Name: "1200000000" Sample ID: "93704121" File: "EX001050048.mpl"
 Peak Name: "Isi(o-orexy) phosphate" Mass(es): "369.101.0 amu"
 Comment: "LCMS03125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.000 mg/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:04:15 AM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 In. Peak Height: 1.00e4 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Height: 1.14e4 counts
 Weight: 289745.049 cps
 Start Time: 10.8 min
 End Time: 11.2 min



GEL Laboratories LLC
Form GEL-NCR

NCR Report No.: 778672
Revision No.: 1

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo.Day Yr. 09-JAN-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: 937041	Sample Numbers: 1202005127, 1202005624, 1202005625		
<p>Potentially affected work order(s)(SDG): 243517(10-1073), 243519(10-1074)</p> <p>Application Issues:</p> <p>Failed Recovery for MSD/PSD</p> <p>Failed Recovery for LCS/LCSD</p> <p>Failed Recovery for MS/PS</p>			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
<p>1. The Laboratory Control Sample (1202005127) did not meet spike recovery limits for TATB at 338%. The recovery limits are 47-166%.</p> <p>2. The Matrix Spike (1202005624) did not meet spike recovery limits for TATB at 188%. The recovery limits are 44-166%.</p> <p>3. The Matrix Spike Duplicate (1202005625) did not meet spike recovery limits for TATB at 212%. The recovery limits are 44-166%.</p>		<p>1., 2. & 3. While TATB exhibited a high bias in the LCS, MS and MSD, it was not detected in the associated samples. The data are reported with the appropriate NCR, and the discrepancies are noted in the case narrative.</p>	

Originator's Name:
Michael Penny 09-JAN-10

Data Validator/Group Leader:
Herbert Maier 09-JAN-10

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1074**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 937093
Prep Batch Number: 937092

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
243519001	RE12-10-7606
243519002	RE12-10-7607
243519003	RE12-10-7596
243519004	RE12-10-7597
243519005	RE12-10-7608
1202005226	Method Blank (MB)
1202005227	Laboratory Control Sample (LCS)
1202005228	243547002(WST54-10-9921) Matrix Spike (MS)
1202005229	243547002(WST54-10-9921) 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.

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

A LANL sample of similar matrix associated with another SDG (#10-1084) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data are included in the package summarizing the results.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information**Electronic Package Comment**

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports (DERs) are for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integrations

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VIIs will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD2A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD2A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticide II)

Certification Statement

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

Review Validation

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

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

Reviewer: Andy Whetlock

Date: 1-19-2010

Roadmap for LANL 10-1074 PCB

This roadmap was analyzed by jen01212 on 12-31-2009, 11:13.

This roadmap was reviewed by rob01090 on 01-04-2010, 16:36.

This roadmap was packaged by yml on 01-18-2010, 10:05.

Front Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/028f2801.d	243519001	sample	29-DEC-2009	12:24	10-1074.sub	RE12-10-7606	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/029f2901.d	243519002	sample	29-DEC-2009	12:35	10-1074.sub	RE12-10-7607	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/030f3001.d	243519003	sample	29-DEC-2009	12:46	10-1074.sub	RE12-10-7596	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/031f3101.d	243519004	sample	29-DEC-2009	12:57	10-1074.sub	RE12-10-7597	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/032f3201.d	243519005	sample	29-DEC-2009	13:08	10-1074.sub	RE12-10-7608	1.00000	937093	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/028f2801.d	243519001	sample	29-DEC-2009	12:24	10-1074.sub	RE12-10-7606	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/029f2901.d	243519002	sample	29-DEC-2009	12:35	10-1074.sub	RE12-10-7607	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/030f3001.d	243519003	sample	29-DEC-2009	12:46	10-1074.sub	RE12-10-7596	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/031f3101.d	243519004	sample	29-DEC-2009	12:57	10-1074.sub	RE12-10-7597	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/032f3201.d	243519005	sample	29-DEC-2009	13:08	10-1074.sub	RE12-10-7608	1.00000	937093	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/012f1201-4.d	1202005226	mb	29-DEC-2009	09:27	10-1074.sub	PBLK01	1.00000	937093	
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/013f1301-4.d	1202005227	lcs	29-DEC-2009	09:38	10-1074.sub	PBLK01LCS	1.00000	937093	

Back QC Sample Column

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/012b1201-4.d	1202005226	mb	29-DEC-2009	09:27	10-1074.sub	PBLK01	1.00000	937093	
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b/013b1301-4.d	1202005227	lcs	29-DEC-2009	09:38	10-1074.sub	PBLK01LCS	1.00000	937093	

SAMPLE DATA SUMMARY

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1074
Lab Sample ID: 243519003Date Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 10
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	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1074

Lab Sample ID: 243519004

Client ID: RE12-10-7597

Batch ID: 937093

Run Date: 12/29/2009 12:57

Prep Date: 12/28/2009 20:43

Data File: 031f3101.d

031b3101.d

Date Collected: 12/21/2009 12:00

Date Received: 12/24/2009 09:30

Client: LANL010

Method: SW846 8082

Inst: ECD2A.J

Analyst: JAOC

Aliquot: 30.01 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 5.1

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.51	ug/kg	1.17	3.51	1
11104-28-2	Aroclor-1221	U	3.51	ug/kg	1.17	3.51	1
11141-16-5	Aroclor-1232	U	3.51	ug/kg	1.17	3.51	1
53469-21-9	Aroclor-1242	U	3.51	ug/kg	1.17	3.51	1
12672-29-6	Aroclor-1248	U	3.51	ug/kg	1.17	3.51	1
11097-69-1	Aroclor-1254	U	3.51	ug/kg	1.17	3.51	1
11096-82-5	Aroclor-1260	U	3.51	ug/kg	1.17	3.51	1

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1074
Lab Sample ID: 243519001Date Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.17 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1074

Lab Sample ID: 243519002

Client ID: RE12-10-7607

Batch ID: 937093

Run Date: 12/29/2009 12:35

Prep Date: 12/28/2009 20:43

Data File: 029f2901.d

029b2901.d

Date Collected: 12/21/2009 12:00

Date Received: 12/24/2009 09:30

Client: LANL010

Method: SW846 8082

Inst: ECD2A.1

Analyst: JAOC

Aliquot: 30.19 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 6.2

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

PCB

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Certificate of Analysis
Sample Summary

SDG Number: 10-1074

Lab Sample ID: 243519005

Client ID: RE12-10-7608

Batch ID: 937093

Run Date: 12/29/2009 13:08

Prep Date: 12/28/2009 20:43

Data File: 032f3201.d

032b3201.d

Date Collected: 12/21/2009 12:00

Date Received: 12/24/2009 09:30

Client: LANL010

Method: SW846 8082

Inst: ECD2A.J

Analyst: JAOC

Aliquot: 30.11 g

Column: 1 CLP1

2 CLP2

Matrix: R

% Moisture: 10.7

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.72	ug/kg	1.24	3.72	1
11104-28-2	Aroclor-1221	U	3.72	ug/kg	1.24	3.72	1
11141-16-5	Aroclor-1232	U	3.72	ug/kg	1.24	3.72	1
53469-21-9	Aroclor-1242	U	3.72	ug/kg	1.24	3.72	1
12672-29-6	Aroclor-1248	U	3.72	ug/kg	1.24	3.72	1
11097-69-1	Aroclor-1254	U	3.72	ug/kg	1.24	3.72	1
11096-82-5	Aroclor-1260	U	3.72	ug/kg	1.24	3.72	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1074

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 #
1202005226	MB for batch 937092	65	69	71	81
1202005227	LCS for batch 937092	66	69	70	79
243519001	RE12-10-7606	57	61	63	67
243519002	RE12-10-7607	63	67	70	76
243519003	RE12-10-7596	61	64	67	74
243519004	RE12-10-7597	60	64	68	73
243519005	RE12-10-7608	59	63	64	71

Surrogate

4CMX = 4cmx

DCB = Decachlorobiphenyl

Acceptance Limits

(34%-105%)

(33%-115%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB

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**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-1074

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 937092

Matrix: SOIL

Lab Sample ID:1202005227

Instrument: ECD2A.I

Analysis Date: 12/29/2009 09:38

Dilution: 1

Analyst: JAOC

Prep Batch II 937092

Inj. Vol: 1 uL

Batch ID: 937093

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	21.1	63	41-110
11096-82-5	LCS Aroclor-1260	33.3	0.0	26.3	79	48-110

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1084

Client ID: WST54-10-9921MS

Lab Sample ID:1202005228

Instrument: ECD2A.I

Analyst: JAOC

Inj. Vol: 1 uL

Sample Type: Matrix Spike

Matrix: S

%Moisture: 11.1

Analysis Date: 12/29/2009 13:53

Dilution: 1

Prep Batch ID: 937092

Batch ID: 937093

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	37.3	0.00 U	22.4	60	23-117
11096-82-5	MS Aroclor-1260	37.3	0.00 U	29.7	80	27-116

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1084

Sample Type: Matrix Spike Duplicate

Client ID: WST54-10-9921MSD

Matrix: S

Lab Sample ID:1202005229

%Moisture: 11.1

Instrument: ECD2A.I

Analysis Date: 12/29/2009 14:04

Dilution: 1

Analyst: JAOC

Pre Batch II 937092

Inj. Vol: 1 uL

Batch ID: 937093

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	Acceptance RPD	Acceptance Limits
12674-11-2	MSD Aroclor-1016	37.3	0.00 U	24.1	65	23-117	7	0-30
11096-82-5	MSD Aroclor-1260	37.3	0.00 U	30.7	82	27-116	3	0-30

Method Blank Summary

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SDG Number:	10-1074	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 937092	Instrument ID:	ECD2A.I_2	Data File:	012b1201-1.d
Lab Sample ID:	1202005226		ECD2A.I_1		012f1201-1.d
Column:	CLP2	Prep Date:	12/28/2009 20:43	Analyzed:	12/29/09 09:27
	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 937092	1202005227	013f1301-1.d 013b1301-1.d	12/29/09	0938
02 RE12-10-7606	243519001	028f2801.d 028b2801.d	12/29/09	1224
03 RE12-10-7607	243519002	029f2901.d 029b2901.d	12/29/09	1235
04 RE12-10-7596	243519003	030f3001.d 030b3001.d	12/29/09	1246
05 RE12-10-7597	243519004	031f3101.d 031b3101.d	12/29/09	1257
06 RE12-10-7608	243519005	032f3201.d 032b3201.d	12/29/09	1308

SAMPLE DATA

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1074
Lab Sample ID: 243519003Date Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 10
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	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

Data File: /chem/ecd2a.i/122909.b/030f3001.d
Report Date: 31-Dec-2009 09:12

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/030f3001.d

Lab Smp Id: 243519003

Client Smp ID: RE12-10-7596

Inj Date : 29-DEC-2009 12:46

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |243519003|1|

Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7596|||

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 30

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1074.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	30.04000	Weight of sample extracted (g)
M	10.01350	% Moisture

Cpnd Variable

Local Compound Variable

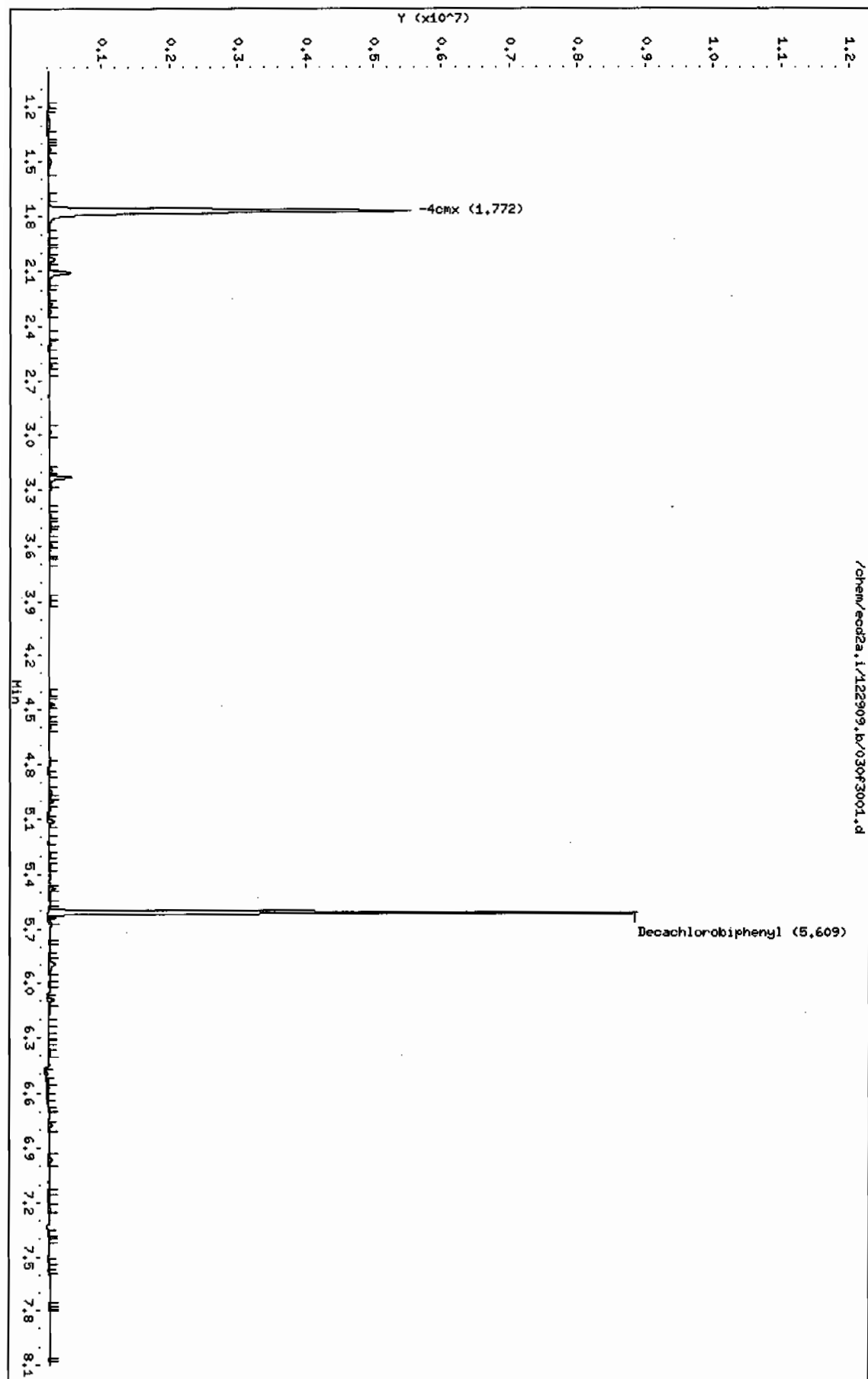
CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
1.772	1.771	0.001	7568457	121.500	4.5 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.609	5.607	0.002	7304375	134.987	5.0 80.00- 120.00	100.00

Data File: /chem/ecod2a.i/122909.b/030f3001.d
Date: 29-DEC-2009 12:46
Client ID: RE12-10-7596
Sample Info: 124351900311
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecod2a.i
Operator: JHOC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/030b3001.d
Report Date: 31-Dec-2009 09:17

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/030b3001.d

Lab Smp Id: 243519003

Client Smp ID: RE12-10-7596

Inj Date : 29-DEC-2009 12:46

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |243519003|1|

Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7596|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:47 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 30

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1074.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	30.04000	Weight of sample extracted (g)
M	10.01350	% Moisture

Cpnd Variable

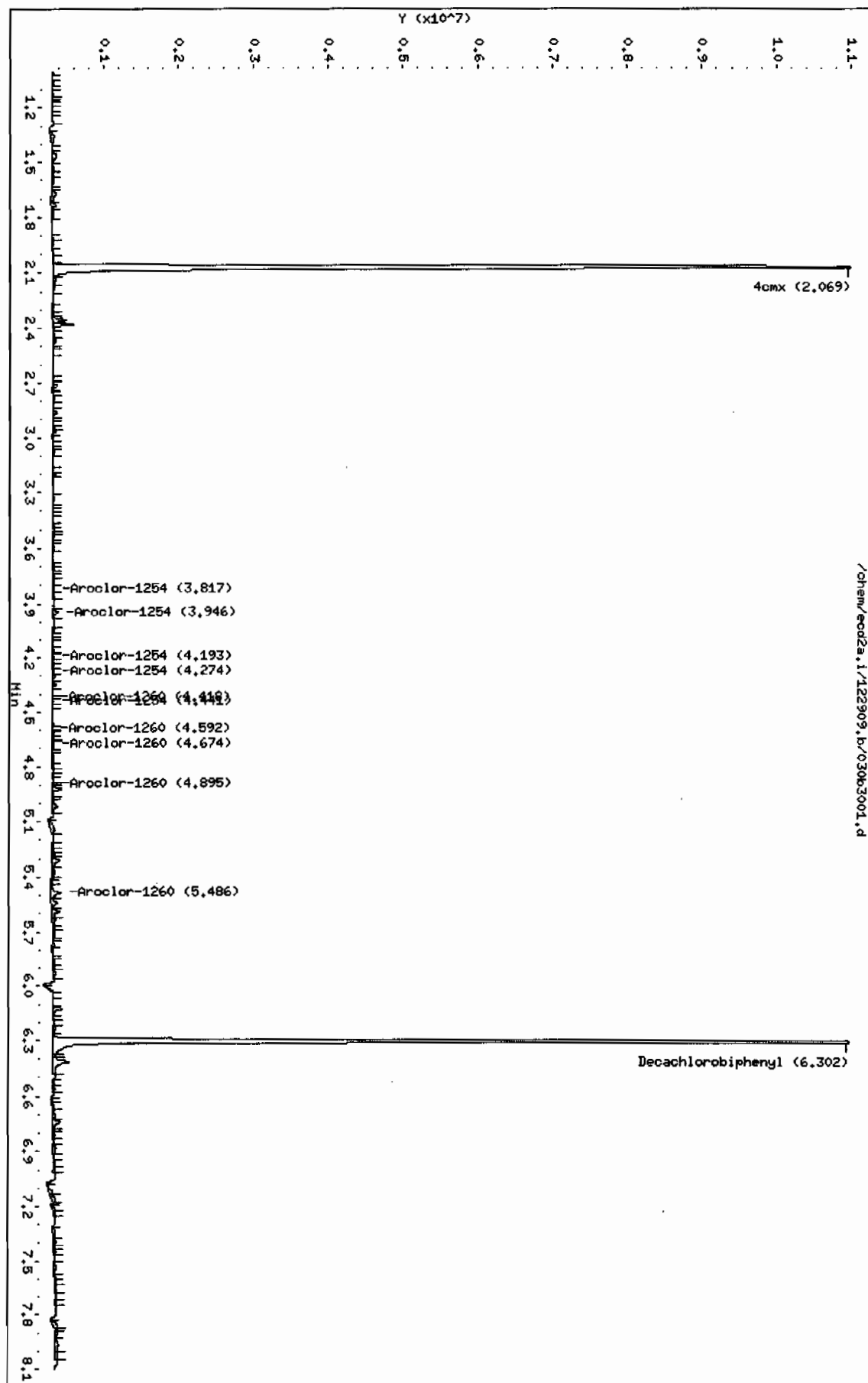
Local Compound Variable

CONCENTRATIONS

ON-COL			FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx					CAS #: 877-09-8	
2.069	2.068	0.001	16622771 128.542	4.8	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.302	6.300	0.002	16663899 147.752	5.5	80.00- 120.00	100.00
<hr/>						

Data File: /chem/eod2a.i/122909.b/03063001.d
Date: 29-DEC-2009 12:46
Client ID: RE12-10-7596
Sample Info: 124361900311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod2a.i
Operator: JHOC
Column diameter: 0.25



PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1074
Lab Sample ID: 243519004Date Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 5.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.51	ug/kg	1.17	3.51	1
11104-28-2	Aroclor-1221	U	3.51	ug/kg	1.17	3.51	1
11141-16-5	Aroclor-1232	U	3.51	ug/kg	1.17	3.51	1
53469-21-9	Aroclor-1242	U	3.51	ug/kg	1.17	3.51	1
12672-29-6	Aroclor-1248	U	3.51	ug/kg	1.17	3.51	1
11097-69-1	Aroclor-1254	U	3.51	ug/kg	1.17	3.51	1
11096-82-5	Aroclor-1260	U	3.51	ug/kg	1.17	3.51	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/031f3101.d
 Lab Smp Id: 243519004 Client Smp ID: RE12-10-7597
 Inj Date : 29-DEC-2009 12:57
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |243519004|1|
 Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7597|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
 Als bottle: 31
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1074.sub
 Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	5.14080	% Moisture

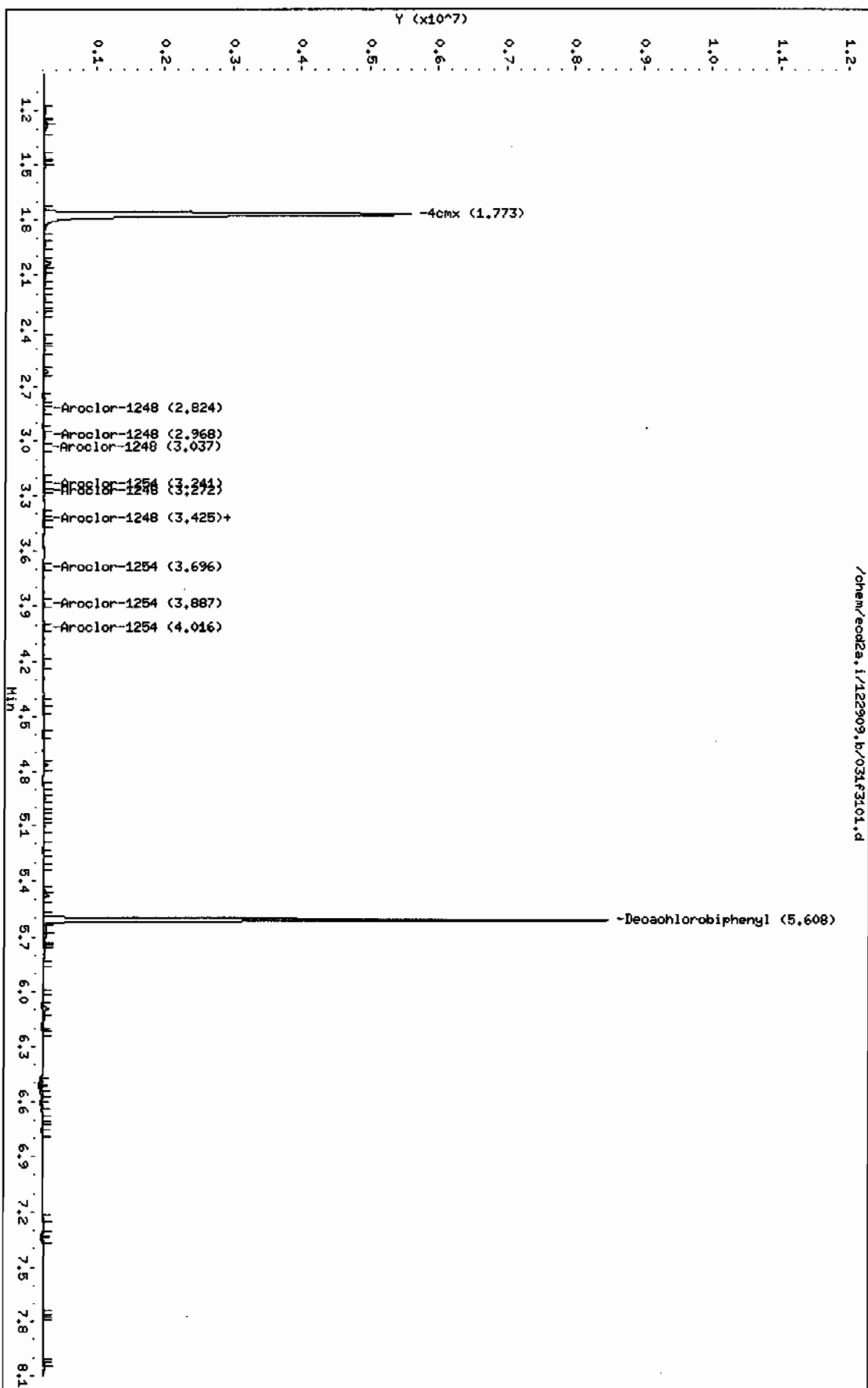
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
1.773	1.771	0.002	7534566 120.956	4.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.608	5.607	0.001	7314754 135.179	4.7	80.00- 120.00	100.00

Data File: /chem/ecod2a.i/122909.b/031f3101.d
 Date : 29-DEC-2009 12:57
 Client ID: RE12-10-7697
 Sample Info: 124351900411
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecod2a.i
 Operator: JADC
 Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/031b3101.d
Report Date: 31-Dec-2009 09:12

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd2a.i/122909.b/031b3101.d
Lab Smp Id: 243519004 Client Smp ID: RE12-10-7597
Inj Date : 29-DEC-2009 12:57
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243519004|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7597|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 31
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1074.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	5.14080	% 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	
2.069	2.068	0.001	16507401	127.650	4.5 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.301	6.300	0.001	16383438	145.265	5.1 80.00- 120.00	100.00

Data File: /chem/eod2a.i/122909.b/031b3101.d

Date: 29-DEC-2009 12:57

Client ID: RE12-10-7597

Sample Info: 124361900411

Volume Injected (uL): 1.0

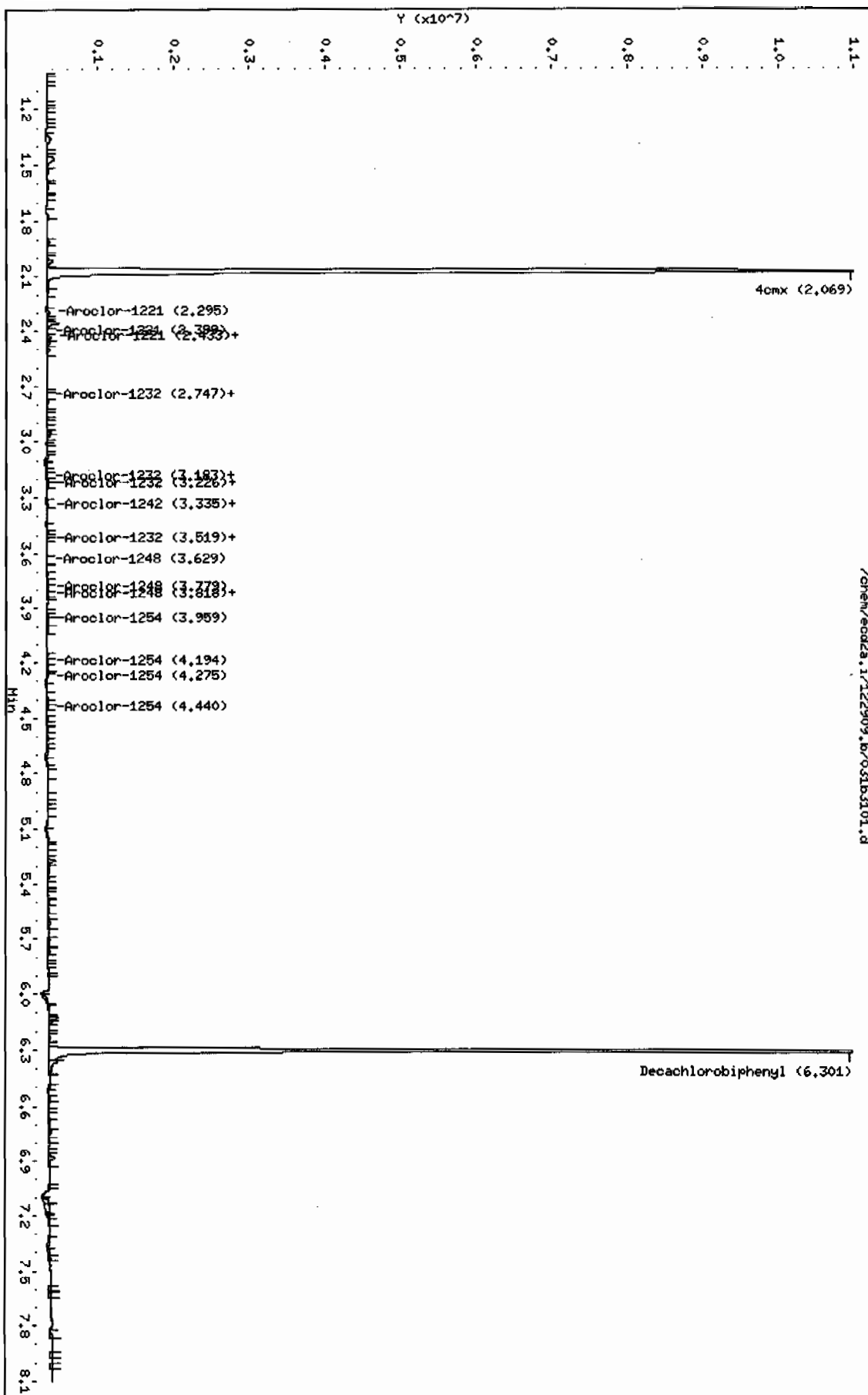
Column phase: CLP2

Instrument: eod2a.i

Operator: JROC

Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1074

Lab Sample ID: 243519001

Date Collected: 12/21/2009 12:00

Date Received: 12/24/2009 09:30

Matrix: R

%Moisture: 10.4

Client ID: RE12-10-7606

Batch ID: 937093

Run Date: 12/29/2009 12:24

Prep Date: 12/28/2009 20:43

Data File: 028f2801.d

Client: LANL010

Method: SW846 8082

Inst: ECD2A.I

Analyst: JAOC

Aliquot: 30.17 g

Column: 1 CLP1

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

Data File: /chem/ecd2a.i/122909.b/028f2801.d
Report Date: 31-Dec-2009 09:11

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/028f2801.d

Lab Smp Id: 243519001

Client Smp ID: RE12-10-7606

Inj Date : 29-DEC-2009 12:24

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |243519001|1|

Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7606|1|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 28

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1074.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.17000	Weight of sample extracted (g)
M	10.41340	% Moisture

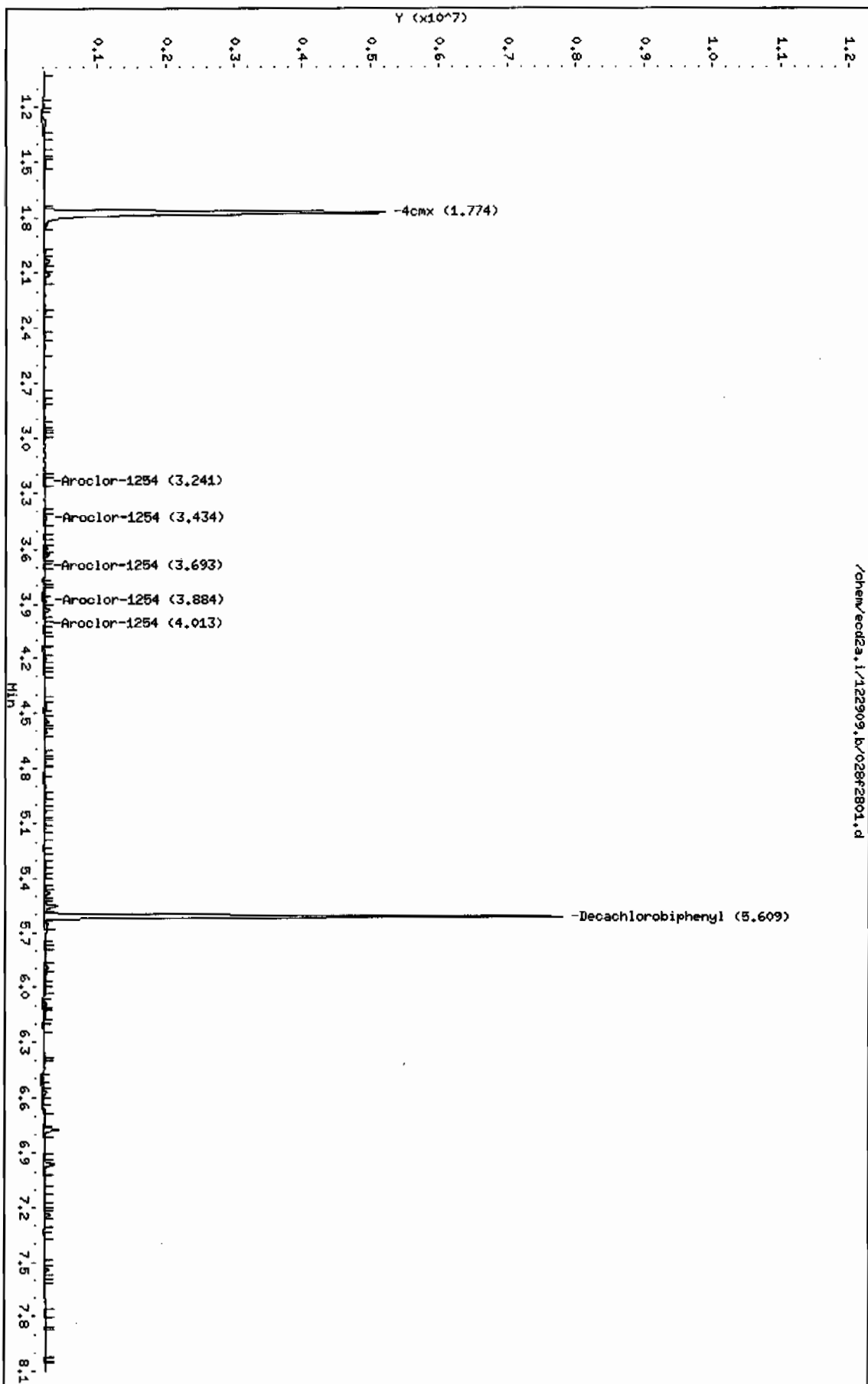
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
			RESPONSE (ug/L)	(ug/Kg)		
\$ 11 4cmx					CAS #: 877-09-8	
1.774	1.771	0.003	7082629 113.701	4.2	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.609	5.607	0.002	6792862 125.534	4.6	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/122909.b/028f2801.d
Date: 29-DEC-2009 12:24
Client ID: RE12-10-7606
Sample Info: 124351900111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i
Operator: JHOC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/028b2801.d
 Report Date: 31-Dec-2009 09:18

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd2a.i/122909.b/028b2801.d
 Lab Smp Id: 243519001 Client Smp ID: RE12-10-7606
 Inj Date : 29-DEC-2009 12:24
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |243519001|1|
 Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7606|1|1|
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1074.sub
 Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

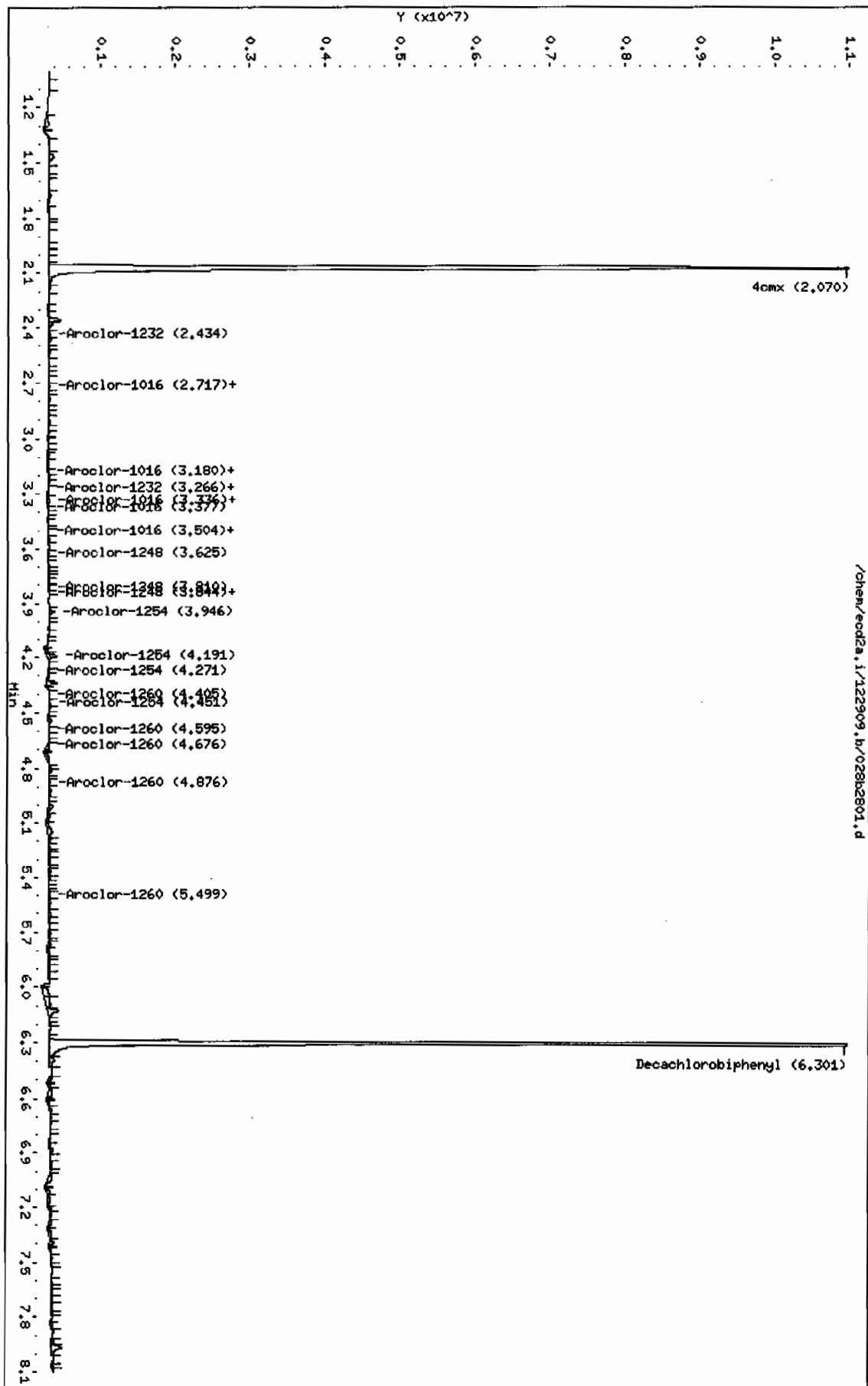
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.17000	Weight of sample extracted (g)
M	10.41340	% Moisture

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 2.070 2.068 0.002 15650524 121.024 4.5 80.00~ 120.00 100.00							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3 6.301 6.300 0.001 15145312 134.287 5.0 80.00~ 120.00 100.00							

Data File: /chem/ecod2a.i/122909.b/02862801.d
 Date : 29-DEC-2009 12:24
 Client ID: RE12-10-7606
 Sample Info: 124351900111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecod2a.i
 Operator: J60C
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1074

Lab Sample ID: 243519002

Client ID: RE12-10-7607

Batch ID: 937093

Run Date: 12/29/2009 12:35

Prep Date: 12/28/2009 20:43

Data File: 029f2901.d

029b2901.d

Date Collected: 12/21/2009 12:00

Date Received: 12/24/2009 09:30

Client: LANL010

Method: SW846 8082

Inst: ECD2A.I

Analyst: JAOC

Aliquot: 30.19 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 6.2

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.53	ug/kg	1.18	3.53	1
11104-28-2	Aroclor-1221	U	3.53	ug/kg	1.18	3.53	1
11141-16-5	Aroclor-1232	U	3.53	ug/kg	1.18	3.53	1
53469-21-9	Aroclor-1242	U	3.53	ug/kg	1.18	3.53	1
12672-29-6	Aroclor-1248	U	3.53	ug/kg	1.18	3.53	1
11097-69-1	Aroclor-1254	U	3.53	ug/kg	1.18	3.53	1
11096-82-5	Aroclor-1260	U	3.53	ug/kg	1.18	3.53	1

Data File: /chem/ecd2a.i/122909.b/029f2901.d
Report Date: 31-Dec-2009 09:11

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/029f2901.d
Lab Smp Id: 243519002 Client Smp ID: RE12-10-7607
Inj Date : 29-DEC-2009 12:35
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243519002|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7607|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1074.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

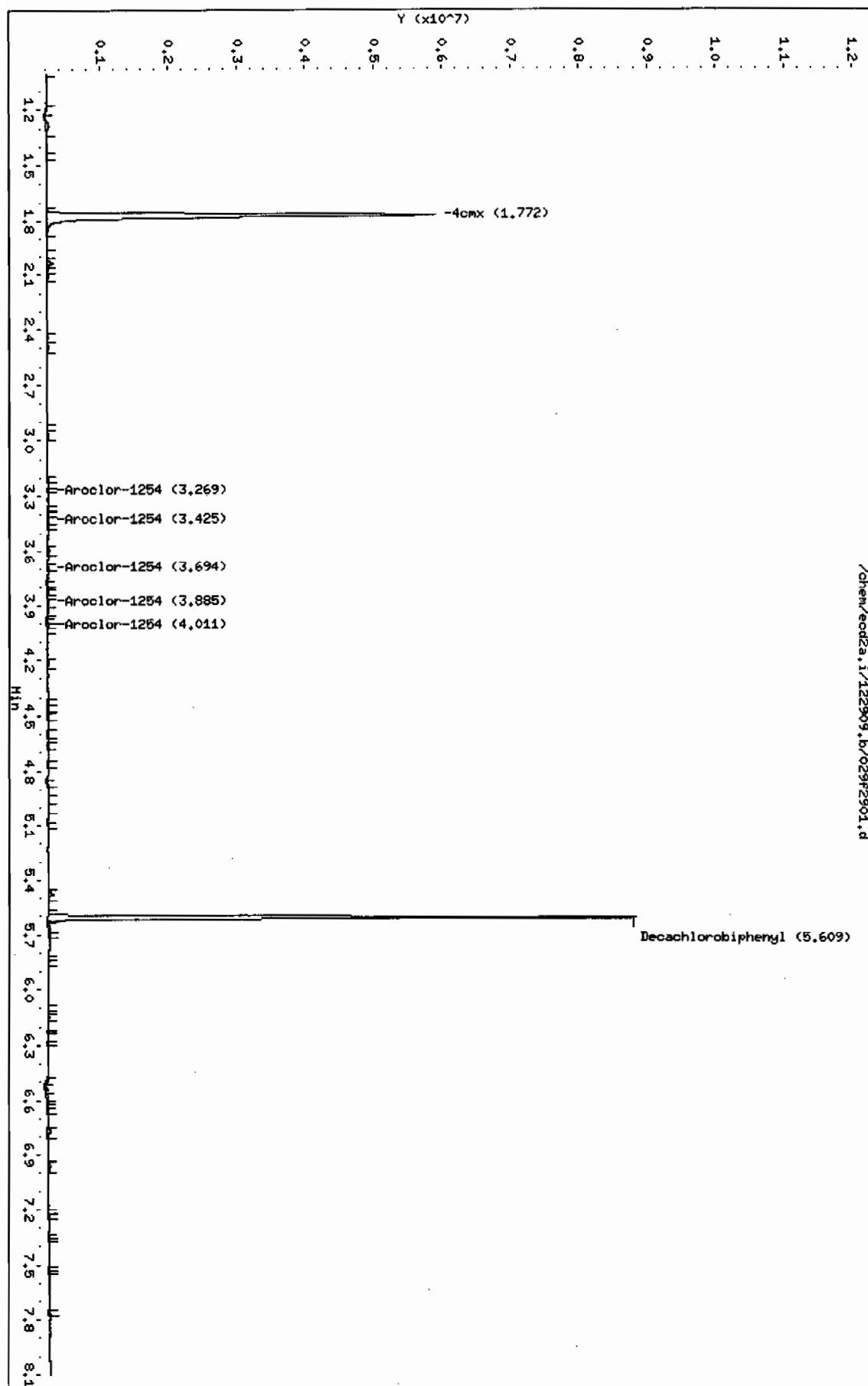
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.19000	Weight of sample extracted (g)
M	6.17170	% Moisture

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			
1.772	1.771	0.001	7826742 125.647	4.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.609	5.607	0.002	7592393 140.310	5.0	80.00- 120.00	100.00

Data File: /chem/ecod2a.i/122909.b/029f2901.d
Date: 29-DEC-2009 12:35
Client ID: RE12-10-7607
Sample Info: 124361900211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecod2a.i
Operator: JADC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/029b2901.d
Report Date: 31-Dec-2009 09:11

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/029b2901.d
Lab Smp Id: 243519002 Client Smp ID: RE12-10-7607
Inj Date : 29-DEC-2009 12:35
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243519002|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7607|1|1|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1074.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.19000	Weight of sample extracted (g)
M	6.17170	% Moisture

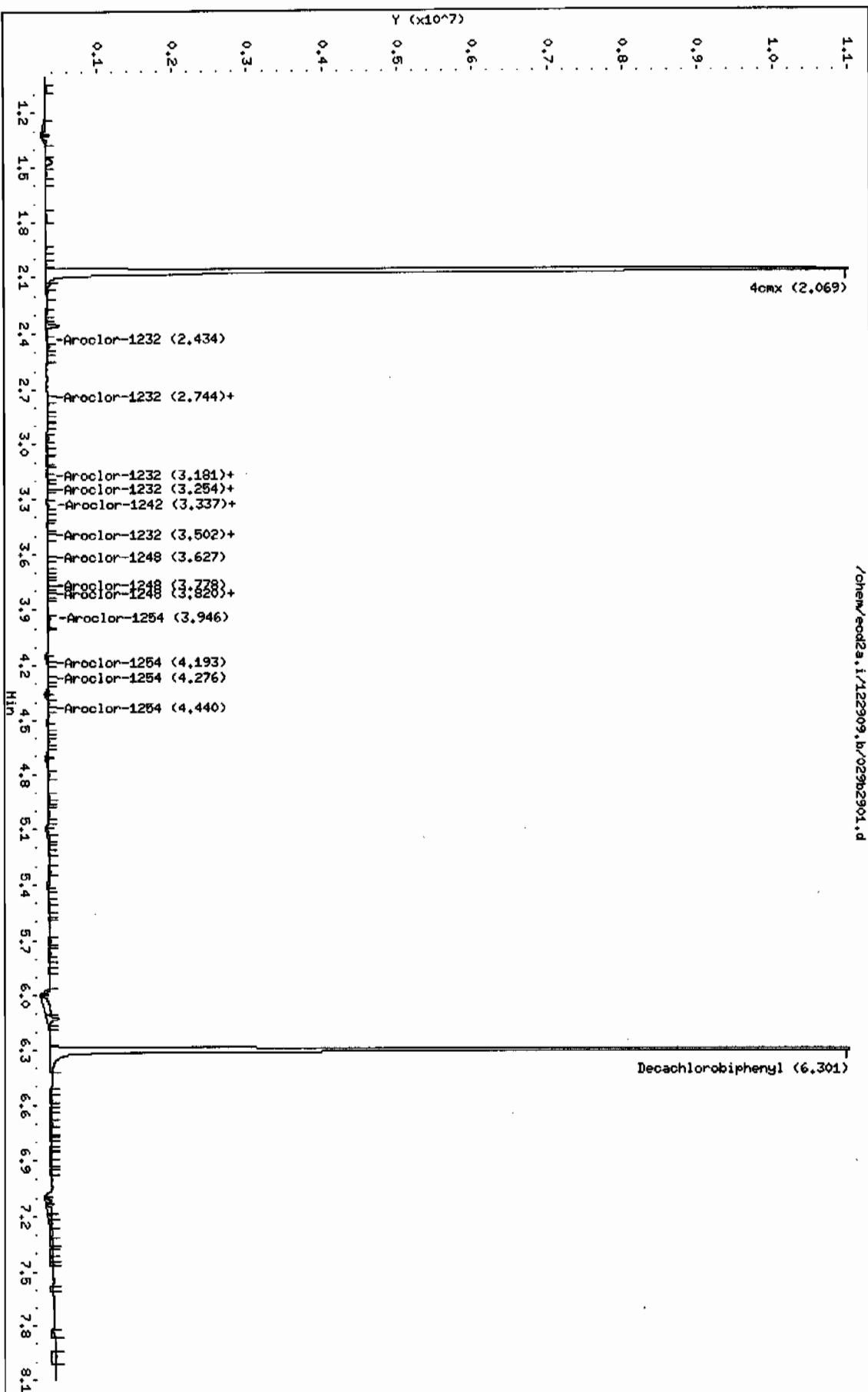
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11.4cmx					CAS #: 877-09-8	
2.069	2.068	0.001	17391358 134.485	4.7	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.301	6.300	0.001	17116065 151.761	5.4	80.00- 120.00	100.00

Data File: /chem/eod2a.i/122909.b/02962901.d
Date: 29-DEC-2009 12:35
Client ID: RE12-10-7607
Sample Info: 124351900211
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod2a.i
Operator: JHCC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1074
Lab Sample ID: 243519005

Date Collected: 12/21/2009 12:00
Date Received: 12/24/2009 09:30
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.11 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 10.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.72	ug/kg	1.24	3.72	1
11104-28-2	Aroclor-1221	U	3.72	ug/kg	1.24	3.72	1
11141-16-5	Aroclor-1232	U	3.72	ug/kg	1.24	3.72	1
53469-21-9	Aroclor-1242	U	3.72	ug/kg	1.24	3.72	1
12672-29-6	Aroclor-1248	U	3.72	ug/kg	1.24	3.72	1
11097-69-1	Aroclor-1254	U	3.72	ug/kg	1.24	3.72	1
11096-82-5	Aroclor-1260	U	3.72	ug/kg	1.24	3.72	1

Data File: /chem/ecd2a.i/122909.b/032f3201.d
Report Date: 31-Dec-2009 09:19

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/032f3201.d

Lab Smp Id: 243519005

Client Smp ID: RE12-10-7608

Inj Date : 29-DEC-2009 13:08

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |243519005|1|

Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7608|||

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 32

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1074.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	10.73350	% 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	
1.773	1.771	0.002	7386306	118.576	4.4 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.609	5.607	0.002	6887782	127.289	4.7 80.00- 120.00	100.00

Data File: /chem/eod2a.i/122909.b/v32f3201.d

Date : 29-DEC-2009 13:08

Client ID: RE12-10-7608

Sample Info: 1243519005111

Volume Injected (uL): 1.0

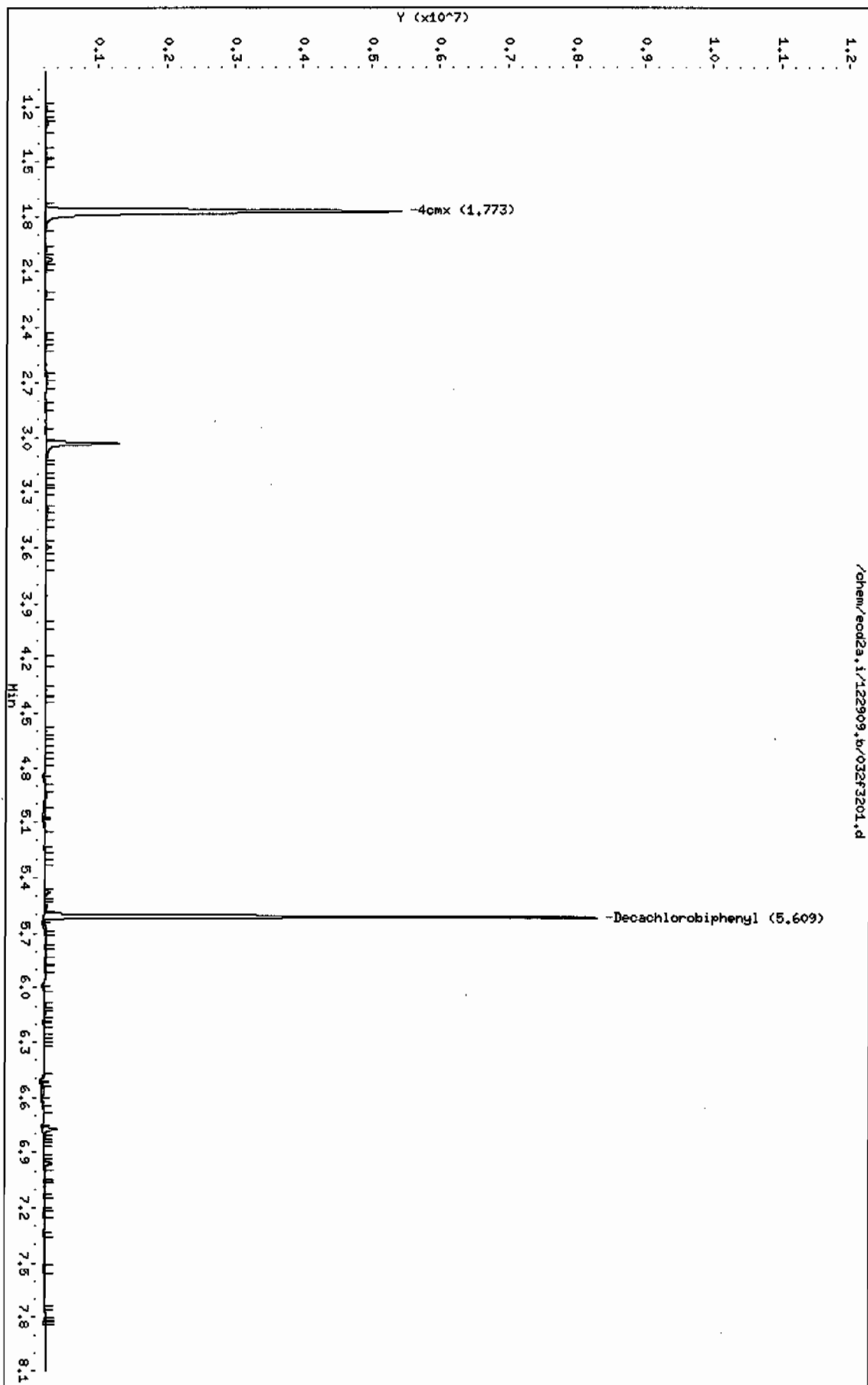
Column phase: CLP1

Instrument: eod2a.i

Operator: JADC

Column diameter: 0.25

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Data File: /chem/ecd2a.i/122909.b/032b3201.d
Report Date: 31-Dec-2009 09:12

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd2a.i/122909.b/032b3201.d
Lab Smp Id: 243519005 Client Smp ID: RE12-10-7608
Inj Date : 29-DEC-2009 13:08
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243519005|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7608|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1074.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	10.73350	% Moisture

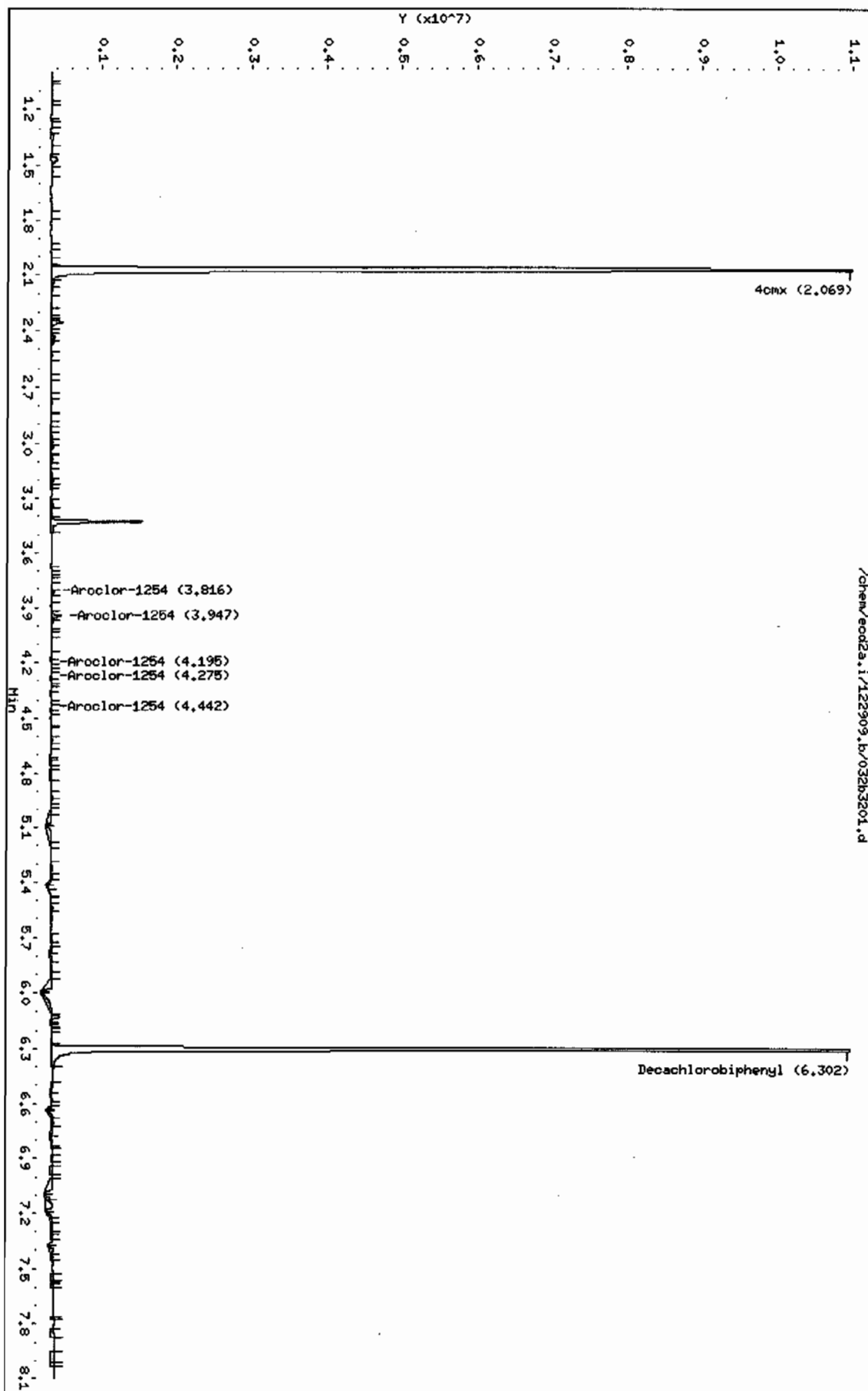
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx					CAS #: 877-09-8	
2.069	2.068	0.001	16317120	126.178	4.7 80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.302	6.300	0.002	16078897	142.565	5.3 80.00- 120.00	100.00
<hr/>						

Data File: /chem/eod2a.i/122909.b/032b3201.d
Date : 29-DEC-2009 13:08
Client ID: RE12-10-7608
Sample Info: 124351900E111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25

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STANDARDS DATA

Report Date: 31-Dec-2009 09:15

Calibration History

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008f0801.d
12-NOV-2009 16:22	AR1268	/chem/ecd2a.i/111209a.b/035f3501.d
30-NOV-2009 10:12	AR1248	/chem/ecd2a.i/113009a.b/011f1101.d
12-NOV-2009 14:09	AR1242	/chem/ecd2a.i/111209a.b/023f2301.d
30-NOV-2009 08:43	AR1254	/chem/ecd2a.i/113009a.b/003f0301.d
14-DEC-2009 08:51	AR1660	/chem/ecd2a.i/121409.b/011f1101.d
Cal Level: 2 , Cal Amount: 250.00000		
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009f0901.d
12-NOV-2009 16:33	AR1268	/chem/ecd2a.i/111209a.b/036f3601.d
30-NOV-2009 10:23	AR1248	/chem/ecd2a.i/113009a.b/012f1201.d
12-NOV-2009 14:20	AR1242	/chem/ecd2a.i/111209a.b/024f2401.d
30-NOV-2009 08:54	AR1254	/chem/ecd2a.i/113009a.b/004f0401.d
14-DEC-2009 09:02	AR1660	/chem/ecd2a.i/121409.b/012f1201.d
Cal Level: 3 , Cal Amount: 500.00000		
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010f1001.d
12-NOV-2009 16:44	AR1268	/chem/ecd2a.i/111209a.b/037f3701.d
30-NOV-2009 10:34	AR1248	/chem/ecd2a.i/113009a.b/013f1301.d
12-NOV-2009 14:31	AR1242	/chem/ecd2a.i/111209a.b/025f2501.d
30-NOV-2009 09:05	AR1254	/chem/ecd2a.i/113009a.b/005f0501.d
14-DEC-2009 09:13	AR1660	/chem/ecd2a.i/121409.b/013f1301.d
Cal Level: 4 , Cal Amount: 1000.00000		
30-NOV-2009 10:45	AR1248	/chem/ecd2a.i/113009a.b/014f1401.d
12-NOV-2009 14:42	AR1242	/chem/ecd2a.i/111209a.b/026f2601.d
30-NOV-2009 09:16	AR1254	/chem/ecd2a.i/113009a.b/006f0601.d
14-DEC-2009 09:24	AR1660	/chem/ecd2a.i/121409.b/014f1401.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010f1001.d
12-NOV-2009 16:55	AR1268	/chem/ecd2a.i/111209a.b/038f3801.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011f1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007f0701.d
12-NOV-2009 11:00	AR1232	/chem/ecd2a.i/111209a.b/006f0601.d
Cal Level: 5 , Cal Amount: 4000.00000		
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012f1201.d
12-NOV-2009 17:07	AR1268	/chem/ecd2a.i/111209a.b/039f3901.d
30-NOV-2009 10:56	AR1248	/chem/ecd2a.i/113009a.b/015f1501.d

12-NOV-2009 14:53	AR1242	/chem/ecd2a.i/111209a.b/027f2701.d
30-NOV-2009 09:27	AR1254	/chem/ecd2a.i/113009a.b/007f0701.d
14-DEC-2009 09:35	AR1660	/chem/ecd2a.i/121409.b/015f1501.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 14:26	AR1660	/chem/ecd2a.i/122909.b/039f3901.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 13:19	AR1660	/chem/ecd2a.i/122909.b/033f3301.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 11:17	AR1660	/chem/ecd2a.i/122909.b/022f2201.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:50	AR1268	/chem/ecd2a.i/122909.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:39	AR1262	/chem/ecd2a.i/122909.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:28	AR1221	/chem/ecd2a.i/122909.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:17	AR1232	/chem/ecd2a.i/122909.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:59	AR1248	/chem/ecd2a.i/122909.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:48	AR1242	/chem/ecd2a.i/122909.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:37	AR1254	/chem/ecd2a.i/122909.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:26	AR1660	/chem/ecd2a.i/122909.b/002f0201.d

Report Date: 31-Dec-2009 09:15

Calibration History

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008b0801.d
12-NOV-2009 16:22	AR1268	/chem/ecd2a.i/111209a.b/035b3501.d
30-NOV-2009 10:12	AR1248	/chem/ecd2a.i/113009a.b/011b1101.d
12-NOV-2009 14:09	AR1242	/chem/ecd2a.i/111209a.b/023b2301.d
30-NOV-2009 08:43	AR1254	/chem/ecd2a.i/113009a.b/003b0301.d
14-DEC-2009 08:51	AR1660	/chem/ecd2a.i/121409.b/011b1101.d

Cal Level: 2 , Cal Amount: 250.00000		
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009b0901.d
12-NOV-2009 16:33	AR1268	/chem/ecd2a.i/111209a.b/036b3601.d
30-NOV-2009 10:23	AR1248	/chem/ecd2a.i/113009a.b/012b1201.d
12-NOV-2009 14:20	AR1242	/chem/ecd2a.i/111209a.b/024b2401.d
30-NOV-2009 08:54	AR1254	/chem/ecd2a.i/113009a.b/004b0401.d
14-DEC-2009 09:02	AR1660	/chem/ecd2a.i/121409.b/012b1201.d

Cal Level: 3 , Cal Amount: 500.00000		
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010b1001.d
12-NOV-2009 16:44	AR1268	/chem/ecd2a.i/111209a.b/037b3701.d
30-NOV-2009 10:34	AR1248	/chem/ecd2a.i/113009a.b/013b1301.d
12-NOV-2009 14:31	AR1242	/chem/ecd2a.i/111209a.b/025b2501.d
30-NOV-2009 09:05	AR1254	/chem/ecd2a.i/113009a.b/005b0501.d
14-DEC-2009 09:13	AR1660	/chem/ecd2a.i/121409.b/013b1301.d

Cal Level: 4 , Cal Amount: 1000.00000		
30-NOV-2009 10:45	AR1248	/chem/ecd2a.i/113009a.b/014b1401.d
12-NOV-2009 14:42	AR1242	/chem/ecd2a.i/111209a.b/026b2601.d
30-NOV-2009 09:16	AR1254	/chem/ecd2a.i/113009a.b/006b0601.d
14-DEC-2009 09:24	AR1660	/chem/ecd2a.i/121409.b/014b1401.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010b1001.d
12-NOV-2009 16:55	AR1268	/chem/ecd2a.i/111209a.b/038b3801.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011b1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007b0701.d
12-NOV-2009 11:00	AR1232	/chem/ecd2a.i/111209a.b/006b0601.d

Cal Level: 5 , Cal Amount: 4000.00000		
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012b1201.d
12-NOV-2009 17:07	AR1268	/chem/ecd2a.i/111209a.b/039b3901.d
30-NOV-2009 10:56	AR1248	/chem/ecd2a.i/113009a.b/015b1501.d
12-NOV-2009 14:53	AR1242	/chem/ecd2a.i/111209a.b/027b2701.d
30-NOV-2009 09:27	AR1254	/chem/ecd2a.i/113009a.b/007b0701.d
14-DEC-2009 09:35	AR1660	/chem/ecd2a.i/121409.b/015b1501.d

Ccal Level Mode: GLOBAL LEVEL 4

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GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 29-Dec-2009 14:49 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

 Initial:Start Threshold 500.000000
 Initial:End Threshold 250.000000
 Initial:Area Threshold 10000.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 2.000000
 Initial:Negative Peaks OFF
 Initial:Tension 1.100000
 8.500:Bunch Factor 2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.273	2.243-2.303	2.238e+03
	2.597	2.567-2.627	4.685e+03
	2.688	2.658-2.718	1.901e+03
	2.823	2.793-2.853	9.760e+02
	2.974	2.944-3.004	1.458e+03
2 Aroclor-1221	1.436	1.406-1.466	4.641e+02
	1.898	1.868-1.928	6.570e+02
	1.997	1.967-2.027	3.467e+02
3 Aroclor-1232	2.027	1.997-2.057	1.165e+03
	2.277	2.247-2.307	9.314e+02
	2.693	2.663-2.723	8.004e+02
	2.736	2.706-2.766	5.102e+02
4 Aroclor-1242	2.981	2.951-3.011	5.840e+02
	2.274	2.244-2.304	1.733e+03
	2.689	2.659-2.719	1.484e+03
	2.731	2.701-2.761	9.058e+02
	2.824	2.794-2.854	7.269e+02
5 Aroclor-1248	2.976	2.946-3.006	1.120e+03
	2.825	2.795-2.855	1.527e+03
	2.975	2.945-3.005	2.027e+03
	3.035	3.005-3.065	1.571e+03
	3.270	3.240-3.300	2.218e+03
	3.424	3.394-3.454	1.913e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.242	3.212-3.272	2.080e+03
	3.424	3.394-3.454	2.772e+03
	3.694	3.664-3.724	3.742e+03
	3.886	3.856-3.916	2.783e+03
	4.015	3.985-4.045	2.760e+03
7 Aroclor-1260	4.014	3.984-4.044	4.165e+03
	4.286	4.256-4.316	2.591e+03
	4.451	4.421-4.481	2.631e+03
	4.664	4.634-4.694	6.088e+03
	4.853	4.823-4.883	2.942e+03
8 Aroclor-1262	3.824	3.794-3.854	2.273e+03
	4.017	3.987-4.047	3.072e+03
	4.288	4.258-4.318	4.004e+03
	4.453	4.423-4.483	3.573e+03
	4.856	4.826-4.886	2.501e+03
9 Aroclor-1268	4.884	4.854-4.914	9.392e+03
	4.910	4.880-4.940	9.361e+03
	5.043	5.013-5.073	7.073e+03
	5.281	5.251-5.311	3.056e+03
	5.478	5.448-5.508	2.201e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.771	1.741-1.801	6.229e+04
\$ 12 Decachlorobiphenyl	5.607	5.577-5.637	5.411e+04
13 4,4'-DDT	4.229	4.209-4.249	5.006e+04
14 4,4'-DDD	4.036	4.016-4.056	7.298e+04
15 4,4'-DDE	3.632	3.612-3.652	7.426e+04

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 29-Dec-2009 14:47 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	1000.000000
Initial:End Threshold	500.000000
Initial:Area Threshold	500.000000
Initial:P-P Resolution	0.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	OFF
Initial:Tension	4.000000
4.200:Tension	1.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.745	2.715-2.775	4.538e+03
	3.179	3.149-3.209	3.602e+03
	3.330	3.300-3.360	2.053e+03
	3.359	3.329-3.389	2.137e+03
	3.518	3.488-3.548	2.871e+03
2 Aroclor-1221	2.292	2.262-2.322	1.263e+03
	2.397	2.367-2.427	7.739e+02
	2.442	2.412-2.472	3.051e+03
3 Aroclor-1232	2.442	2.412-2.472	2.061e+03
	2.747	2.717-2.777	1.960e+03
	3.183	3.153-3.213	1.498e+03
	3.254	3.224-3.284	9.309e+02
4 Aroclor-1242	3.521	3.491-3.551	1.107e+03
	2.746	2.716-2.776	3.445e+03
	3.181	3.151-3.211	2.681e+03
	3.253	3.223-3.283	1.637e+03
	3.331	3.301-3.361	1.508e+03
5 Aroclor-1248	3.518	3.488-3.548	2.145e+03
	3.332	3.302-3.362	3.282e+03
	3.519	3.489-3.549	4.187e+03
	3.605	3.575-3.635	4.451e+03
	3.795	3.765-3.825	4.697e+03
	3.824	3.794-3.854	5.389e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.818	3.788-3.848	4.985e+03
	3.959	3.929-3.989	5.799e+03
	4.196	4.166-4.226	4.023e+03
	4.277	4.247-4.307	7.731e+03
	4.440	4.410-4.470	5.608e+03
7 Aroclor-1260	4.414	4.384-4.444	5.767e+03
	4.565	4.535-4.595	7.124e+03
	4.677	4.647-4.707	4.819e+03
	4.874	4.844-4.904	5.632e+03
	5.500	5.470-5.530	9.038e+03
8 Aroclor-1262	4.415	4.385-4.445	4.703e+03
	4.567	4.537-4.597	5.853e+03
	4.875	4.845-4.905	8.946e+03
	5.076	5.046-5.106	7.772e+03
	5.254	5.224-5.284	1.672e+04
9 Aroclor-1268	5.498	5.468-5.528	2.032e+04
	5.531	5.501-5.561	2.018e+04
	5.703	5.673-5.733	1.496e+04
	5.903	5.873-5.933	6.438e+03
	6.127	6.097-6.157	4.409e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.068	2.038-2.098	1.293e+05
\$ 12 Decachlorobiphenyl	6.300	6.270-6.330	1.128e+05
13 4,4'-DDT	4.814	4.794-4.834	8.705e+04
14 4,4'-DDD	4.600	4.580-4.620	1.499e+05
15 4,4'-DDE	4.195	4.175-4.215	1.504e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Cal Date : 29-Dec-2009 14:49 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd2a.i/120209.b/008f0801.d
 Level 2: /chem/ecd2a.i/120209.b/009f0901.d
 Level 3: /chem/ecd2a.i/120209.b/010f1001.d
 Level 4: /chem/ecd2a.i/113009a.b/014f1401.d
 Level 5: /chem/ecd2a.i/120209.b/012f1201.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)	2466	2335	2250	2152	1986	2238	8.133
(2)	4869	4683	4664	4616	4594	4685	2.323
(3)	2072	1962	1892	1818	1764	1901	6.365
(4)	1061	990	984	930	915	976	5.885
(5)	1595	1490	1441	1389	1375	1458	6.121
2 Aroclor-1221(1)	++++	++++	++++	464	++++	464	0.000
(2)	++++	++++	++++	657	++++	657	0.000
(3)	++++	++++	++++	347	++++	347	0.000
3 Aroclor-1232(1)	++++	++++	++++	1165	++++	1165	0.000
(2)	++++	++++	++++	931	++++	931	0.000
(3)	++++	++++	++++	800	++++	800	0.000
(4)	++++	++++	++++	510	++++	510	0.000
(5)	++++	++++	++++	584	++++	584	0.000
4 Aroclor-1242(1)	1990	1799	1692	1619	1566	1733	9.686
(2)	1678	1536	1439	1387	1381	1484	8.410
(3)	1015	931	874	843	866	906	7.639
(4)	817	761	714	669	673	727	8.615
(5)	1272	1143	1059	1036	1087	1120	8.434
5 Aroclor-1248(1)	1738	1529	1527	1515	1325	1527	9.560
(2)	2238	2070	1990	2006	1832	2027	7.247
(3)	1706	1611	1571	1551	1415	1571	6.718
(4)	2322	2198	2161	2230	2178	2218	2.874
(5)	2083	1922	1902	1885	1770	1913	5.861
6 Aroclor-1254(1)	2304	2118	2048	2007	1924	2080	6.888
(2)	2981	2797	2739	2702	2642	2772	4.677
(3)	3870	3712	3711	3744	3675	3742	2.011
(4)	2886	2776	2725	2760	2767	2783	2.186
(5)	2994	2820	2741	2711	2533	2760	6.080

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Cal Date : 29-Dec-2009 14:49 jen01212
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
7 Aroclor-1260(1)	4187	4145	4185	4134	4175	4165	0.584
(2)	2696	2603	2589	2529	2536	2591	2.593
(3)	2699	2626	2625	2591	2614	2631	1.539
(4)	5867	6003	6142	6129	6296	6088	2.650
(5)	2925	2904	2929	2920	3034	2942	1.769
8 Aroclor-1262(1)	2530	2266	2239	2239	2092	2273	6.993
(2)	3295	3066	3031	3051	2917	3072	4.482
(3)	4237	3997	3977	3997	3815	4004	3.763
(4)	3754	3532	3556	3594	3430	3573	3.295
(5)	2578	2453	2481	2538	2454	2501	2.217
9 Aroclor-1268(1)	9077	9136	9272	9373	10103	9392	4.409
(2)	9332	9272	9238	9197	9765	9361	2.470
(3)	6985	6923	6953	6984	7523	7073	3.568
(4)	3112	3015	2984	2964	3207	3056	3.331
(5)	21397	21592	21760	21851	23464	22013	3.767
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	50063	++++	50063	0.000
14 4,4'-DDD	++++	++++	++++	72978	++++	72978	0.000
15 4,4'-DDE	++++	++++	++++	74262	++++	74262	0.000
11 4cmx	61300	61246	62868	63075	62969	62292	1.498
12 Decachlorobiphenyl	55102	53352	54400	53360	54345	54112	1.389

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Cal Date : 29-Dec-2009 14:47 jen01212
Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd2a.i/120209.b/008b0801.d
Level 2: /chem/ecd2a.i/120209.b/009b0901.d
Level 3: /chem/ecd2a.i/120209.b/010b1001.d
Level 4: /chem/ecd2a.i/113009a.b/014b1401.d
Level 5: /chem/ecd2a.i/120209.b/012b1201.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)	4662	4582	4609	4551	4285	4538	3.244
(2)	3647	3696	3564	3575	3528	3602	1.886
(3)	2078	2044	2044	2059	2041	2053	0.760
(4)	2149	2125	2133	2140	2138	2137	0.428
(5)	2852	2832	2882	2908	2879	2871	1.025
2 Aroclor-1221(1)	++++	++++	++++	1263	++++	1263	0.000
(2)	++++	++++	++++	774	++++	774	0.000
(3)	++++	++++	++++	3051	++++	3051	0.000
3 Aroclor-1232(1)	++++	++++	++++	2061	++++	2061	0.000
(2)	++++	++++	++++	1960	++++	1960	0.000
(3)	++++	++++	++++	1498	++++	1498	0.000
(4)	++++	++++	++++	931	++++	931	0.000
(5)	++++	++++	++++	1107	++++	1107	0.000
4 Aroclor-1242(1)	3674	3489	3409	3384	3271	3445	4.346
(2)	2815	2677	2634	2637	2644	2681	2.863
(3)	1696	1624	1594	1606	1663	1637	2.599
(4)	1601	1513	1471	1467	1487	1508	3.655
(5)	2235	2100	2068	2141	2180	2145	3.068
5 Aroclor-1248(1)	3439	3315	3263	3296	3099	3282	3.723
(2)	4291	4205	4192	4250	3996	4187	2.717
(3)	4601	4495	4377	4484	4299	4451	2.609
(4)	4665	4612	4696	4831	4682	4697	1.733
(5)	5471	5399	5390	5477	5208	5389	2.022
6 Aroclor-1254(1)	5121	4955	4998	5025	4828	4985	2.145
(2)	5885	5693	5812	5852	5753	5799	1.330
(3)	4010	3906	3992	4126	4082	4023	2.109
(4)	7559	7611	7766	7925	7797	7731	1.909
(5)	5659	5569	5439	5821	5553	5608	2.538

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Cal Date : 29-Dec-2009 14:47 jen01212
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
7 Aroclor-1260(1)	5735	5627	5779	5816	5877	5767	1.626
(2)	6687	7031	7243	7286	7372	7124	3.855
(3)	4572	4701	4890	4942	4988	4819	3.647
(4)	5377	5518	5714	5746	5803	5632	3.163
(5)	8369	8607	9231	9252	9728	9038	6.039
8 Aroclor-1262(1)	4855	4536	4634	4812	4677	4703	2.776
(2)	5760	5648	5834	6083	5942	5853	2.859
(3)	8687	8674	9001	9349	9021	8946	3.121
(4)	7559	7507	7790	8124	7880	7772	3.221
(5)	15890	16154	16824	17584	17141	16719	4.167
9 Aroclor-1268(1)	18829	19584	20101	20533	22559	20321	6.904
(2)	18822	19343	20333	20389	22025	20182	6.077
(3)	13874	14365	14864	15141	16565	14962	6.808
(4)	5734	6115	6404	6840	7097	6438	8.497
(5)	40707	42777	43856	44408	48724	44094	6.689
M 10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	87046	++++	87046	0.000
14 4,4'-DDD	++++	++++	++++	149858	++++	149858	0.000
15 4,4'-DDE	++++	++++	++++	150414	++++	150414	0.000
\$ 11 4cmx	118604	126358	131414	133891	136323	129318	5.440
\$ 12 Decachlorobiphenyl	109662	108705	113295	113170	119083	112783	3.614

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.: 10-1074
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 0726
 Lab File ID: 002F0201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	1979.810	0.01	-11.5	15.0
(2)	4685.268	4181.732	0.01	-10.7	15.0
(3)	1901.482	1665.482	0.01	-12.4	15.0
(4)	975.978	854.977	0.01	-12.4	15.0
(5)	1457.866	1264.967	0.01	-13.2	15.0
Aroclor-1260	4165.097	4064.277	0.01	-2.4	15.0
(2)	2590.571	2586.356	0.01	-0.2	15.0
(3)	2631.205	2655.669	0.01	0.9	15.0
(4)	6087.596	6276.714	0.01	3.1	15.0
(5)	2942.150	3010.974	0.01	2.3	15.0
4cmx	62291.660	63833.220	0.01	2.5	15.0
Decachlorobiphenyl	54111.563	60710.230	0.01	12.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1074
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 0726
 Lab File ID: 002B0201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4194.660	0.01	-7.6	15.0
(2)	3602.166	3292.312	0.01	-8.6	15.0
(3)	2053.230	1911.309	0.01	-6.9	15.0
(4)	2137.091	2011.780	0.01	-5.9	15.0
(5)	2870.516	2685.788	0.01	-6.4	15.0
Aroclor-1260	5766.921	5686.021	0.01	-1.4	15.0
(2)	7123.891	7269.875	0.01	2.0	15.0
(3)	4818.707	4996.379	0.01	3.7	15.0
(4)	5631.757	5755.064	0.01	2.2	15.0
(5)	9037.511	9498.759	0.01	5.1	15.0
4cmx	129318.03	138216.34	0.01	6.9	15.0
Decachlorobiphenyl	112782.99	128323.67	0.01	13.8	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.: 10-1074
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 1117
 Lab File ID: 022F2201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	2015.417	0.01	-9.9	15.0
(2)	4685.268	4292.741	0.01	-8.4	15.0
(3)	1901.482	1720.292	0.01	-9.5	15.0
(4)	975.978	868.251	0.01	-11.0	15.0
(5)	1457.866	1328.140	0.01	-8.9	15.0
Aroclor-1260	4165.097	4128.858	0.01	-0.9	15.0
(2)	2590.571	2595.442	0.01	0.2	15.0
(3)	2631.205	2674.422	0.01	1.6	15.0
(4)	6087.596	6344.394	0.01	4.2	15.0
(5)	2942.150	3057.700	0.01	3.9	15.0
4cmx	62291.660	64591.400	0.01	3.7	15.0
Decachlorobiphenyl	54111.563	59777.760	0.01	10.5	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1074
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 1117
 Lab File ID: 022B2201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4206.631	0.01	-7.3	15.0
(2)	3602.166	3357.192	0.01	-6.8	15.0
(3)	2053.230	1937.576	0.01	-5.6	15.0
(4)	2137.091	2015.700	0.01	-5.7	15.0
(5)	2870.516	2726.459	0.01	-5.0	15.0
Aroclor-1260	5766.921	5723.117	0.01	-0.8	15.0
(2)	7123.891	7231.224	0.01	1.5	15.0
(3)	4818.707	4952.700	0.01	2.8	15.0
(4)	5631.757	5709.014	0.01	1.4	15.0
(5)	9037.511	9420.244	0.01	4.2	15.0
4cmx	129318.03	138965.45	0.01	7.5	15.0
Decachlorobiphenyl	112782.99	126206.43	0.01	11.9	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.: 10-1074
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 1319
 Lab File ID: 033F3301 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	1993.207	0.01	-10.9	15.0
(2)	4685.268	4235.451	0.01	-9.6	15.0
(3)	1901.482	1681.845	0.01	-11.6	15.0
(4)	975.978	855.469	0.01	-12.3	15.0
(5)	1457.866	1272.409	0.01	-12.7	15.0
Aroclor-1260	4165.097	4051.908	0.01	-2.7	15.0
(2)	2590.571	2534.869	0.01	-2.2	15.0
(3)	2631.205	2598.438	0.01	-1.2	15.0
(4)	6087.596	6222.715	0.01	2.2	15.0
(5)	2942.150	2984.601	0.01	1.4	15.0
4cmx	62291.660	63890.880	0.01	2.6	15.0
Decachlorobiphenyl	54111.563	59712.280	0.01	10.4	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1074
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 1319
 Lab File ID: 033B3301 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4214.100	0.01	-7.1	15.0
(2)	3602.166	3324.513	0.01	-7.7	15.0
(3)	2053.230	1908.470	0.01	-7.0	15.0
(4)	2137.091	1986.637	0.01	-7.0	15.0
(5)	2870.516	2683.627	0.01	-6.5	15.0
Aroclor-1260	5766.921	5648.155	0.01	-2.0	15.0
(2)	7123.891	7199.691	0.01	1.1	15.0
(3)	4818.707	4916.596	0.01	2.0	15.0
(4)	5631.757	5644.741	0.01	0.2	15.0
(5)	9037.511	9437.102	0.01	4.4	15.0
4cmx	129318.03	138879.46	0.01	7.4	15.0
Decachlorobiphenyl	112782.99	126108.28	0.01	11.8	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/002f0201.d

Lab Smp Id: WAR091211-60 01

Client Smp ID: AR166001

Inj Date : 29-DEC-2009 07:26

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 01

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.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				
1.771	1.771	0.000	6383322	100.000	102	80.00-	120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
5.607	5.607	0.000	6071023	100.000	112	80.00-	120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2				
2.273	2.273	0.000	1979809	1000.00	885	80.00-	120.00	100.00	
2.597	2.597	0.000	4181731	1000.00	892	192.49-	232.49	211.22	
2.688	2.688	0.000	1665482	1000.00	876	64.38-	104.38	84.12	
2.823	2.823	0.000	854976	1000.00	876	22.92-	62.92	43.18	
2.974	2.974	0.000	1264967	1000.00	868	43.84-	83.84	63.89	
Average of Peak Amounts =					879				

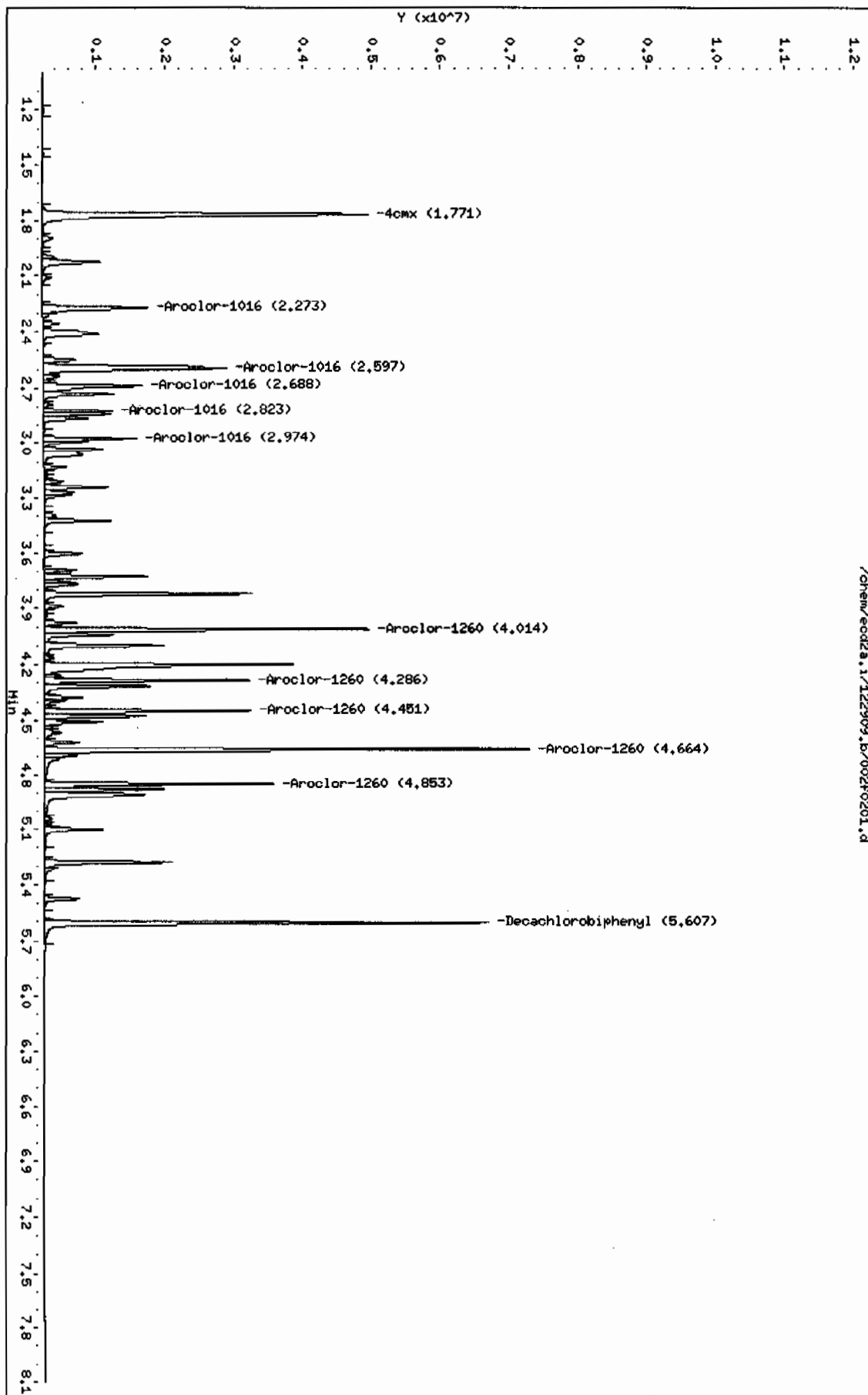
7 Aroclor-1260					CAS #: 11096-82-5				
4.014	4.014	0.000	4064277	1000.00	976	80.00-	120.00	100.00	
4.286	4.286	0.000	2586356	1000.00	998	42.56-	82.56	63.64	
4.451	4.451	0.000	2655669	1000.00	1010	44.13-	84.13	65.34	
4.664	4.664	0.000	6276714	1000.00	1030	133.57-	173.57	154.44	
4.853	4.853	0.000	3010973	1000.00	1020	53.66-	93.66	74.08	
Average of Peak Amounts =					1.01e+03				

Data File: /chem/eod2a.i/122909.b/002f0201.d
Date: 29-DEC-2009 07:26
Client ID: AR166001
Sample Info: 14R091211-60 01

Column phase: CLP1

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25

/chem/eod2a.i/122909.b/002f0201.d



Data File: /chem/ecd2a.i/122909.b/002b0201.d
Report Date: 29-Dec-2009 14:41

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/002b0201.d

Lab Smp Id: WAR091211-60 01

Client Smp ID: AR166001

Inj Date : 29-DEC-2009 07:26

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 01

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:41 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 2

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			
2.068	2.068	0.000	13821634 100.000	107	80.00- 120.00	100.00	

12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.300	6.300	0.000	12832367 100.000	114	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
2.745	2.745	0.000	4194660 1000.00	924	80.00- 120.00	100.00	
3.179	3.179	0.000	3292312 1000.00	914	58.49- 98.49	78.49	
3.330	3.330	0.000	1911309 1000.00	931	25.57- 65.57	45.57	
3.359	3.359	0.000	2011780 1000.00	941	27.96- 67.96	47.96	
3.518	3.518	0.000	2685788 1000.00	936	44.03- 84.03	64.03	
Average of Peak Amounts =				929			

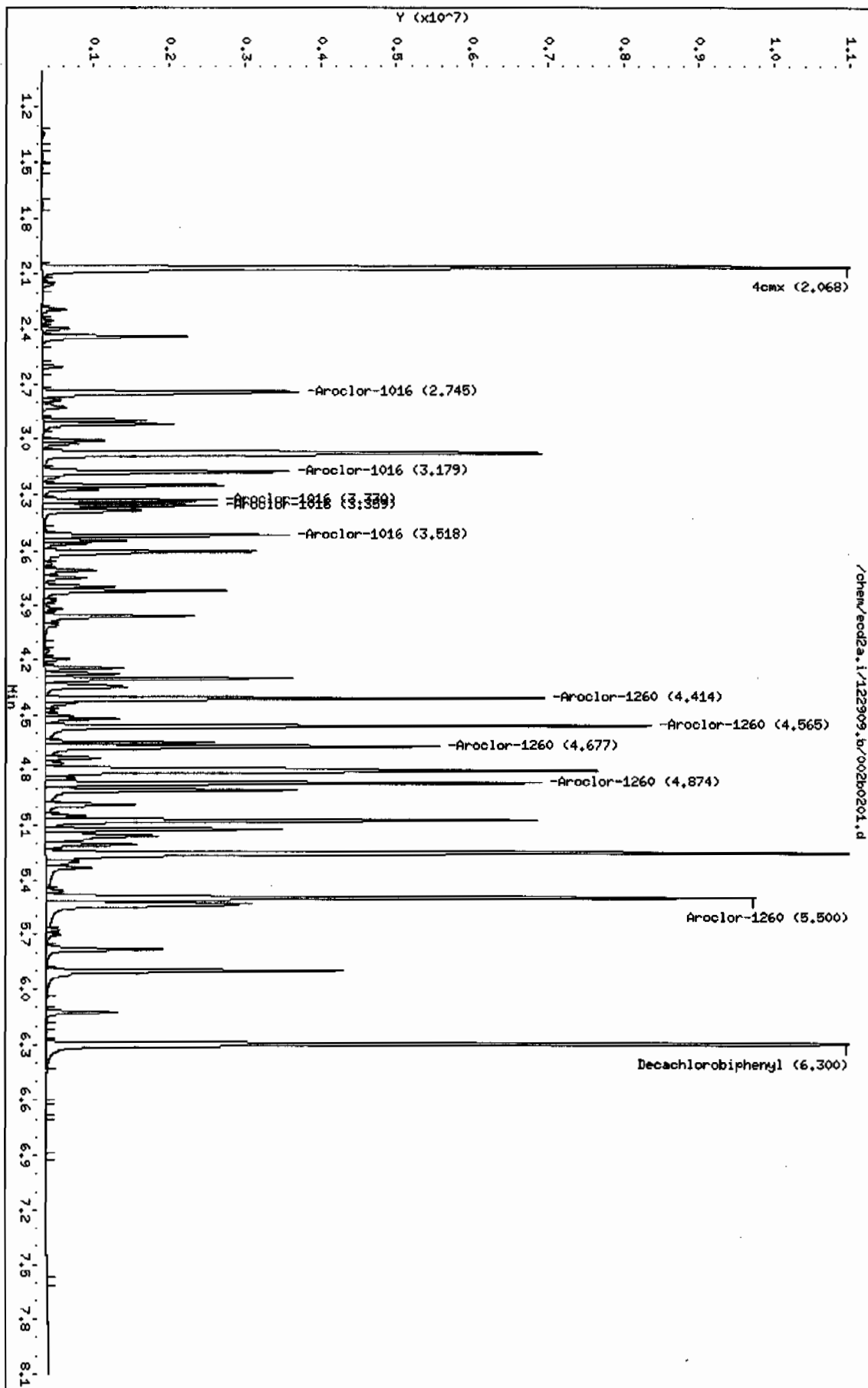
7 Aroclor-1260				CAS #: 11096-82-5			
4.414	4.414	0.000	5686021 1000.00	986	80.00- 120.00	100.00	
4.565	4.565	0.000	7269875 1000.00	1020	107.86- 147.86	127.86	
4.677	4.677	0.000	4996379 1000.00	1040	67.87- 107.87	87.87	
4.874	4.874	0.000	5755064 1000.00	1020	81.21- 121.21	101.21	
5.500	5.500	0.000	9498759 1000.00	1050	147.05- 187.05	167.05	
Average of Peak Amounts =				1.02e+03			

Data File: /chem/ecd2a.i/122909.b/002b0201.d
Date: 23-DEC-2009 07:26
Client ID: AR16001
Sample Info: 14AR091211-60 01

Column phase: CLP2

Instrument: ecd2a.i
Operator: JAC
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/003f0301.d

Lab Smp Id: WAR091216-54 Client Smp ID: AR125401

Inj Date : 29-DEC-2009 07:37

Operator : JAOC Inst ID: ecd2a.i

Smp Info : |WAR091216-54

Misc Info : |PCB_CVS|1254||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.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	
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
1.771	1.771	0.000	6744893	100.000	108	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.608	5.607	0.001	6435687	100.000	119	80.00- 120.00	100.00	

6 Aroclor-1254					CAS #: 11097-69-1			
3.242	3.242	0.000	1956242	1000.00	940	80.00- 120.00	100.00	
3.424	3.424	0.000	2598080	1000.00	937	112.81- 152.81	132.81	
3.694	3.694	0.000	3579085	1000.00	956	162.96- 202.96	182.96	
3.886	3.886	0.000	2609855	1000.00	938	113.41- 153.41	133.41	
4.015	4.015	0.000	2682182	1000.00	972	117.11- 157.11	137.11	
Average of Peak Amounts =					949			

Data File: /chem/ecd2a.i/122909.b/003f0301.d

Date : 29-DEC-2009 07:37

Client ID: AR125401

Sample Info: 1MAR091216-54

Column phase: CLP1

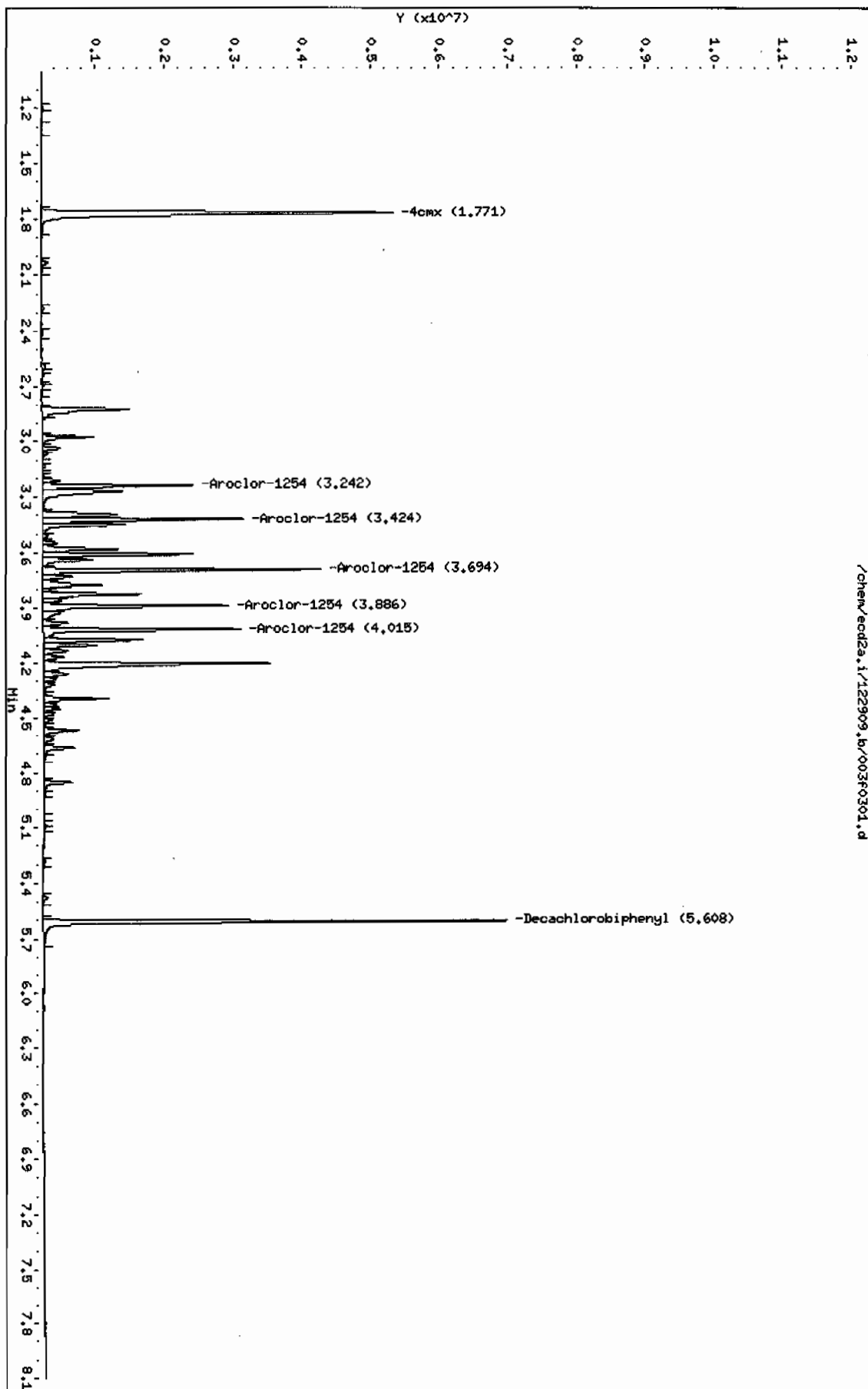
Instrument: ecd2a.i

Operator: JPOC

Column diameter: 0.25

/chem/ecd2a.i/122909.b/003f0301.d

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/003b0301.d
 Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
 Inj Date : 29-DEC-2009 07:37
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091216-54
 Misc Info : |PCB_CVS|1254||CVS|
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:42 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1254.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		
2.068	2.068	0.000	14704314	100.000	114	80.00- 120.00	100.00

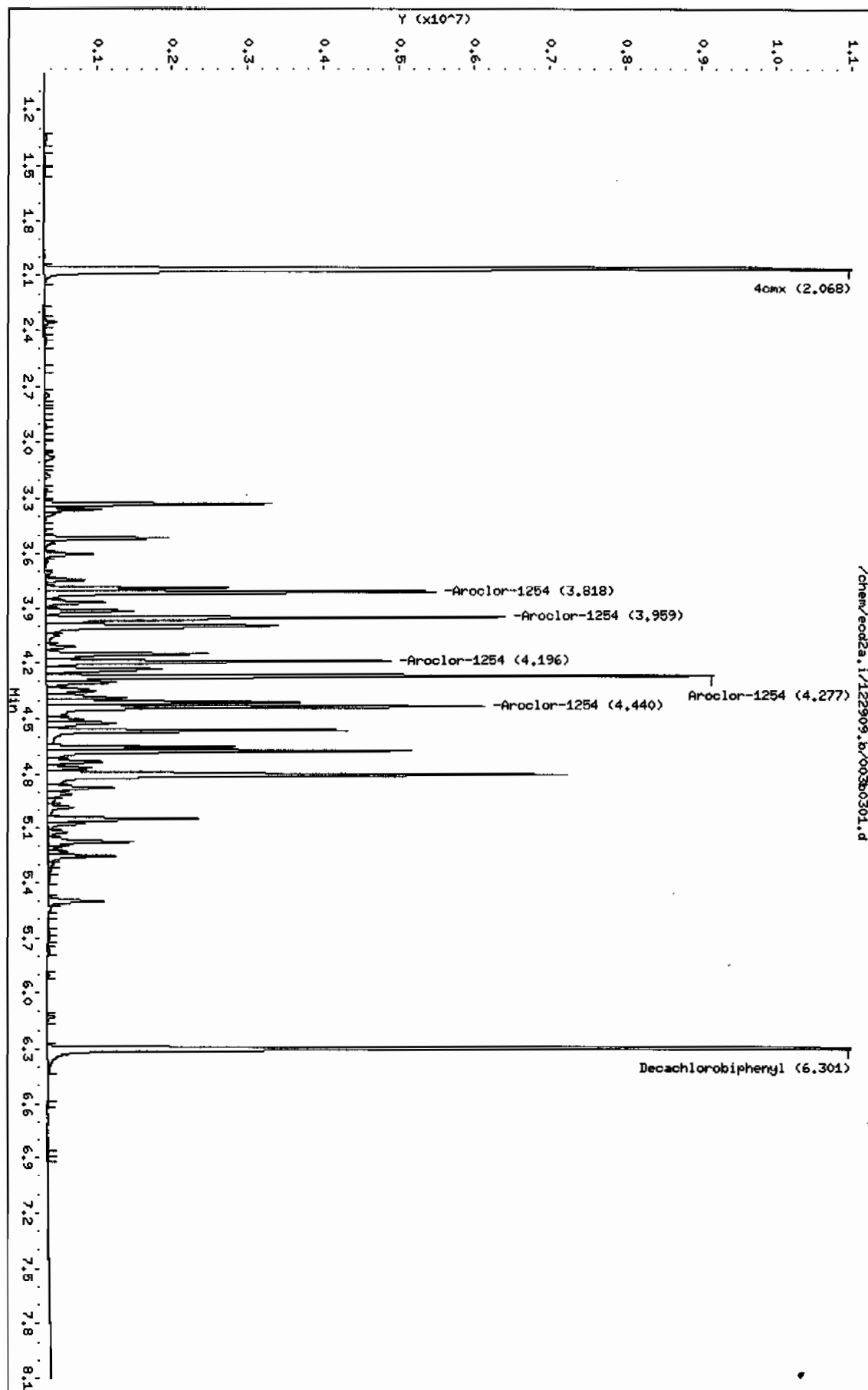
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.301	6.300	0.001	13560839	100.000	120	80.00- 120.00	100.00

6 Aroclor-1254					CAS #: 11097-69-1		
3.818	3.818	0.000	4876217	1000.00	978	80.00- 120.00	100.00
3.959	3.959	0.000	5566214	1000.00	960	94.15- 134.15	114.15
4.196	4.196	0.000	3977097	1000.00	988	61.56- 101.56	81.56
4.277	4.277	0.000	7608694	1000.00	984	136.04- 176.04	156.04
4.440	4.440	0.000	5544908	1000.00	989	93.71- 133.71	113.71
Average of Peak Amounts =					980		

Data File: /chem/ecod2a.i/122909.b/003b0301.d
Date: 29-DEC-2009 07:37
Client ID: R6125401
Sample Info: 1H6R091216-54

Column phase: CLP2

Instrument: ecod2a.i
Operator: JHOC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/004f0401.d
Report Date: 29-Dec-2009 14:37

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/004f0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 29-DEC-2009 07:48
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091217-42
Misc Info : |PCB_CVS|1242||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.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

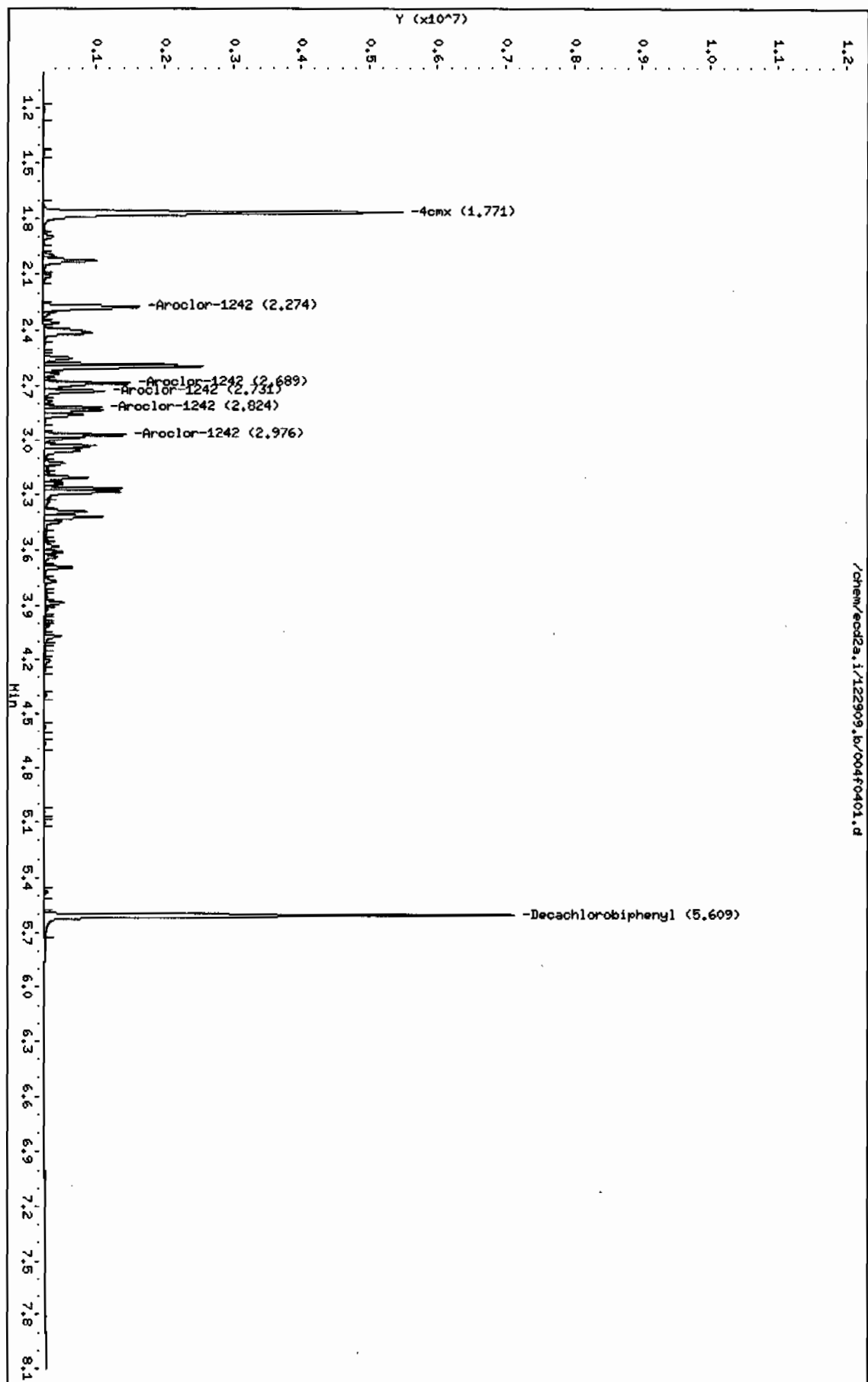
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx				CAS #: 877-09-8		
1.771	1.771	0.000	6773785 100.000	109	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.609	5.607	0.002	6474825 100.000	120	80.00- 120.00	100.00
<hr/>						
4 Aroclor-1242				CAS #: 53469-21-9		
2.274	2.274	0.000	1765815 1000.00	1020	80.00- 120.00	100.00
2.689	2.689	0.000	1458150 1000.00	982	62.58- 102.58	82.58
2.731	2.731	0.000	900745 1000.00	994	31.01- 71.01	51.01
2.824	2.824	0.000	710651 1000.00	978	20.24- 60.24	40.24
2.976	2.976	0.000	1119351 1000.00	1000	43.39- 83.39	63.39
Average of Peak Amounts =				995		

Data File: /chem/ecod2a.i/122909.b/004f0401.d
Date : 29-DEC-2009 07:48
Client ID: ARL24201
Sample Info: 1HAR091217-42

Column phase: CLP1

Instrument: ecod2a.i
Operator: JHOC
Column diameter: 0.25

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Data File: /chem/ecd2a.i/122909.b/004b0401.d
 Report Date: 29-Dec-2009 14:43

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/004b0401.d
 Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
 Inj Date : 29-DEC-2009 07:48
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091217-42
 Misc Info : |PCB_CVS|1242||CVS|
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:43 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 4 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1242.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		
2.069	2.068	0.001	14696292	100.000	114 80.00- 120.00	100.00

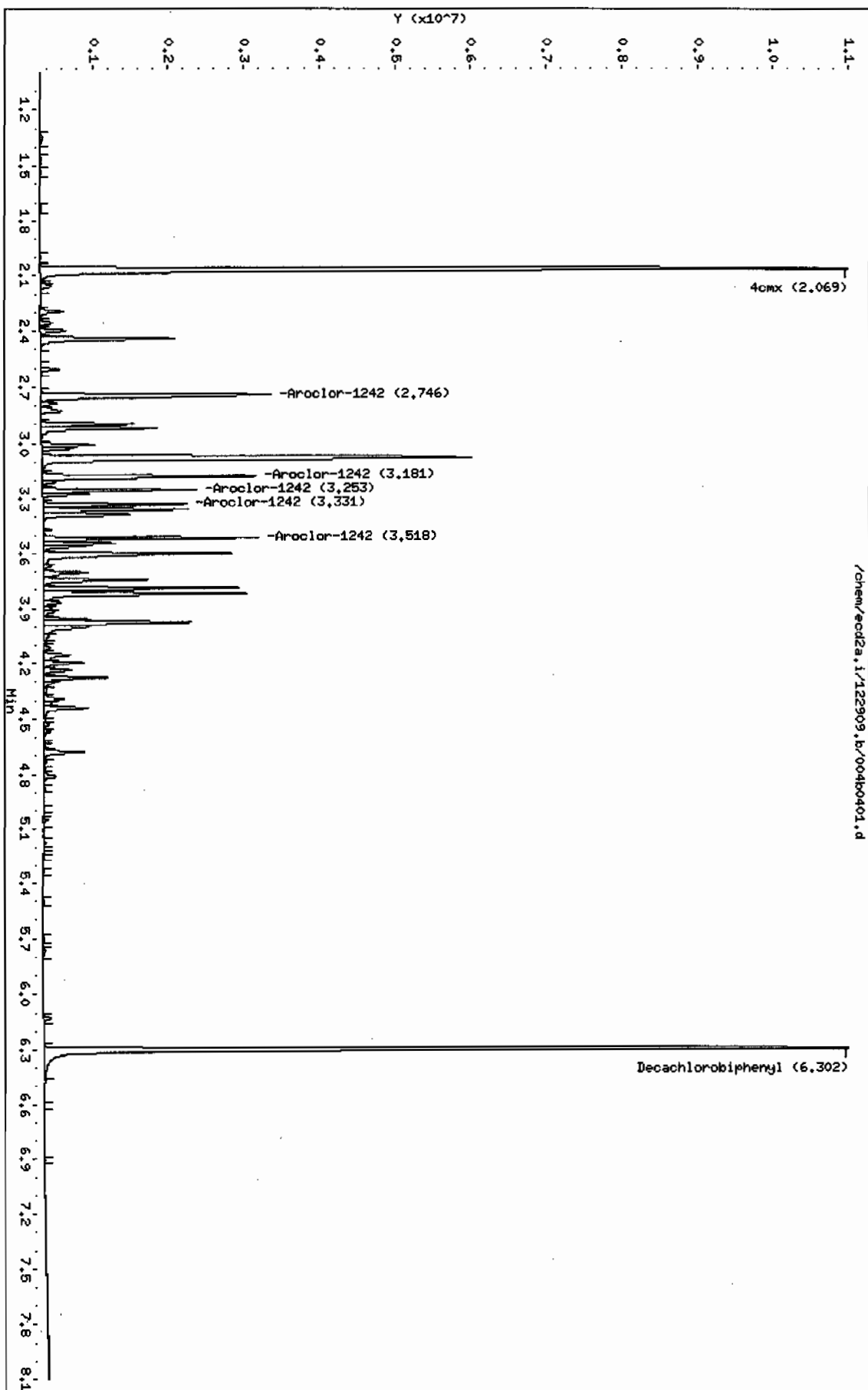
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.302	6.300	0.002	13702837	100.000	121 80.00- 120.00	100.00

4 Aroclor-1242				CAS #: 53469-21-9		
2.746	2.746	0.000	3718888	1000.00	1080 80.00- 120.00	100.00
3.181	3.181	0.000	2793608	1000.00	1040 55.12- 95.12	75.12
3.253	3.253	0.000	1669349	1000.00	1020 24.89- 64.89	44.89
3.331	3.331	0.000	1567550	1000.00	1040 22.15- 62.15	42.15
3.518	3.518	0.000	2299357	1000.00	1070 41.83- 81.83	61.83
Average of Peak Amounts *				1.05e+03		

Data File: /chem/ecd2a.i/122909.b/004b0401.d
Date : 29-DEC-2009 07:48
Client ID: AR124201
Sample Info: 1MAR091217-42

Column Phase: CLP2

Instrument: ecd2a.i
Operator: JROC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/005f0501.d
Report Date: 29-Dec-2009 14:37

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/005f0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 29-DEC-2009 07:59
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091217-48
Misc Info : |PCB_CVS|1248||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
---	-----	-----	-----	-----	-----	-----
\$ 11 4cmx				CAS #: 877-09-8		
1.770	1.771	-0.001	7360215	100.000	118 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.610	5.607	0.003	7090053	100.000	131 80.00- 120.00	100.00

5 Aroclor-1248				CAS #: 12672-29-6		
2.825	2.825	0.000	1468344	1000.00	962 80.00- 120.00	100.00
2.975	2.975	0.000	1982668	1000.00	978 115.03- 155.03	135.03
3.035	3.035	0.000	1519725	1000.00	967 83.50- 123.50	103.50
3.270	3.270	0.000	2078664	1000.00	937 121.57- 161.57	141.57
3.424	3.424	0.000	1799011	1000.00	940 102.52- 142.52	122.52
Average of Peak Amounts =				957		

Data File: /chem/eod2a.i/122909.b/006f0501.d

Date : 29-DEC-2009 07:59

Client ID: AR124801

Sample Info: 1MRO91217-48

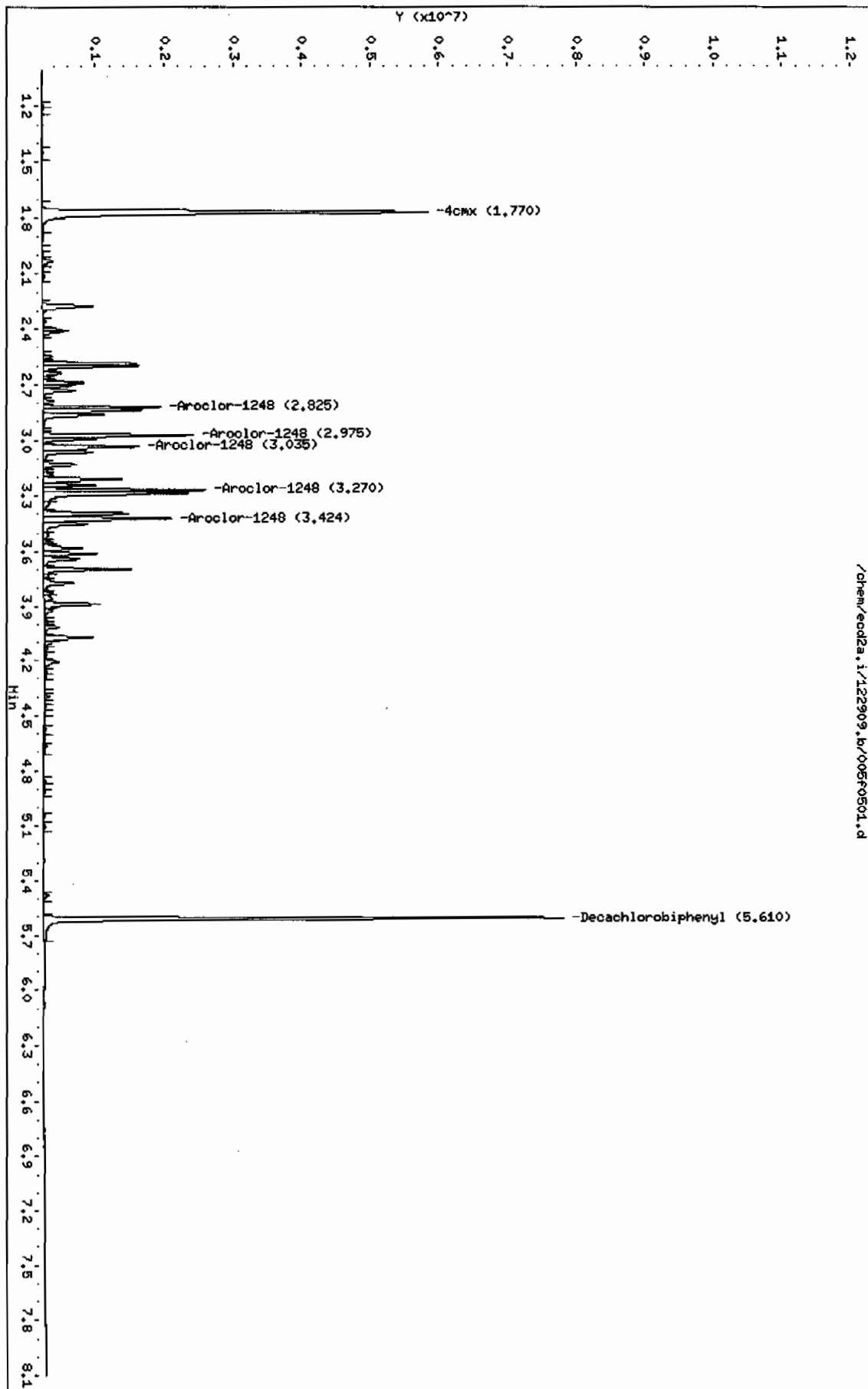
Column phase: CLP1

Instrument: eod2a.i

Operator: JROC

Column diameter: 0.25

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Data File: /chem/ecd2a.i/122909.b/005b0501.d
 Report Date: 29-Dec-2009 14:43

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/005b0501.d
 Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
 Inj Date : 29-DEC-2009 07:59
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091217-48
 Misc Info : |PCB_CVS|1248||CVS|
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:43 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.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: hpc1pl1

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
2.069	2.068	0.001	16057466 100.000	124	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.302	6.300	0.002	14981334 100.000	133	80.00- 120.00	100.00

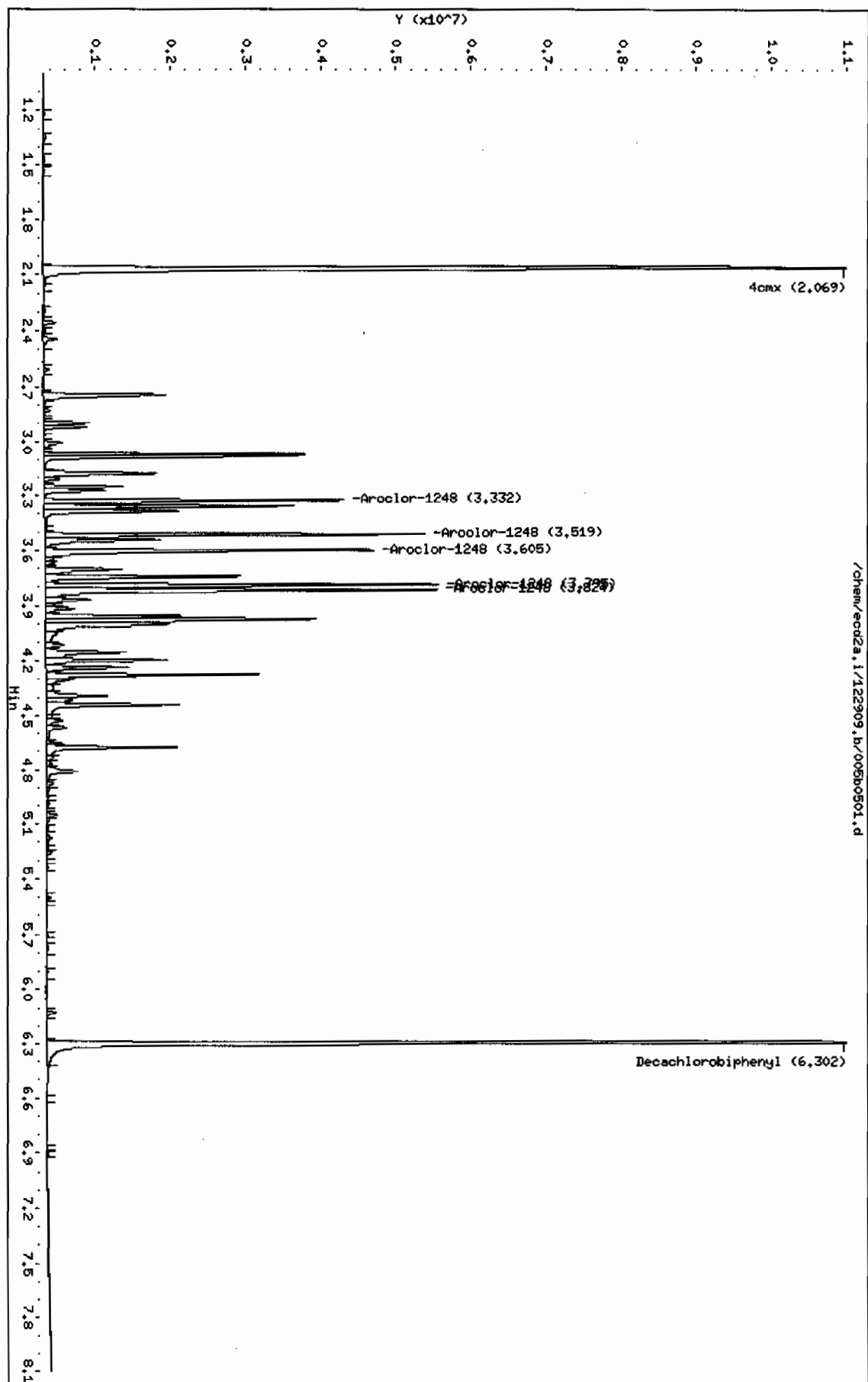
5 Aroclor-1248				CAS #: 12672-29-6		
3.332	3.332	0.000	3275090 1000.00	998	80.00- 120.00	100.00
3.519	3.519	0.000	4196280 1000.00	1000	108.13- 148.13	128.13
3.605	3.605	0.000	4475627 1000.00	1000	116.66- 156.66	136.66
3.795	3.795	0.000	4536185 1000.00	966	118.51- 158.51	138.51
3.824	3.824	0.000	5374355 1000.00	997	144.10- 184.10	164.10
Average of Peak Amounts =				994		

Data File: /chem/eod2a.i/122909.b/005b0501.d
Date : 29-DEC-2009 07:59
Client ID: AR124801
Sample Info: 1MR091217-48

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Column phase: CLP2

Instrument: eod2a.i
Operator: JHOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/006f0601.d
 Lab Smp Id: WAR090930-32 Client Smp ID: AR123201
 Inj Date : 29-DEC-2009 08:17
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR090930-32
 Misc Info : |PCB_CVS|1232||CVS|
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.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
==	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx					CAS #: 877-09-8		
1.772	1.771	0.001	10114890	100.000	162	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.616	5.607	0.009	9874511	100.000	182	80.00- 120.00	100.00

3 Aroclor-1232					CAS #: 11141-16-5		
2.027	2.027	0.000	1546440	1000.00	1330	80.00- 120.00	100.00
2.277	2.277	0.000	1232894	1000.00	1320	59.72- 99.72	79.72
2.693	2.693	0.000	1048268	1000.00	1310	47.79- 87.79	67.79
2.736	2.736	0.000	666971	1000.00	1310	23.13- 63.13	43.13
2.981	2.981	0.000	767292	1000.00	1310	29.62- 69.62	49.62
Average of Peak Amounts =					1.32e+03		

Data File: /chem/ecod2a.i/122909.b/006f0601.d

Date : 29-DEC-2009 08:17

Client ID: R6123201

Sample Info: 14R090930-32

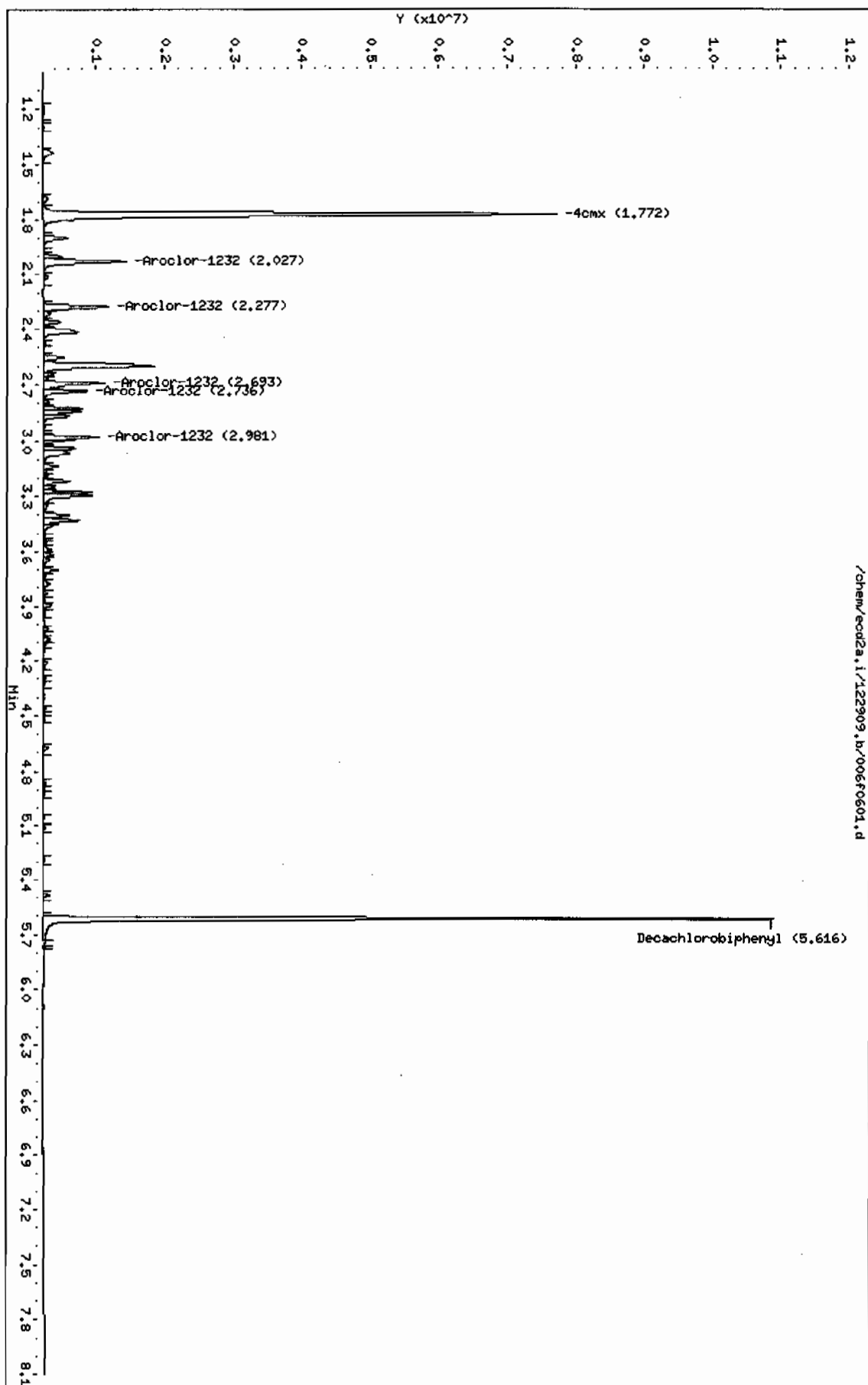
Column phase: CLP1

Instrument: ecod2a.i

Operator: JHOC

Column diameter: 0.25

/chem/ecod2a.i/122909.b/006f0601.d



Data File: /chem/ecd2a.i/122909.b/006b0601.d
Report Date: 29-Dec-2009 14:44

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/006b0601.d
Lab Smp Id: WAR090930-32 Client Smp ID: AR123201
Inj Date : 29-DEC-2009 08:17
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR090930-32
Misc Info : |PCB_CVS|1232||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:43 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

		AMOUNTS							
		CAL-AMT		ON-COL					
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO			
==	=====	*****	=====	=====	=====	=====			
\$ 11 4cmx CAS #: 877-09-8									
2.069	2.068	0.001	22199517 100.000	172	80.00- 120.00	100.00			

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3									
6.304	6.300	0.004	21227910 100.000	188	80.00- 120.00	100.00			

3 Aroclor-1232 CAS #: 11141-16-5									
2.442	2.442	0.000	2893358 1000.00	1400	80.00- 120.00	100.00			
2.747	2.747	0.000	2666991 1000.00	1360	72.18- 112.18	92.18			
3.183	3.183	0.000	1975790 1000.00	1320	48.29- 88.29	68.29			
3.254	3.254	0.000	1214623 1000.00	1300	21.98- 61.98	41.98			
3.521	3.521	0.000	1476417 1000.00	1330	31.03- 71.03	51.03			
Average of Peak Amounts =			1.34e+03						

Data File: /chem/eod2a.i/122909.b/0060601.d
Date: 29-DEC-2009 08:17
Client ID: ARL23201
Sample Info: IAR090930-32

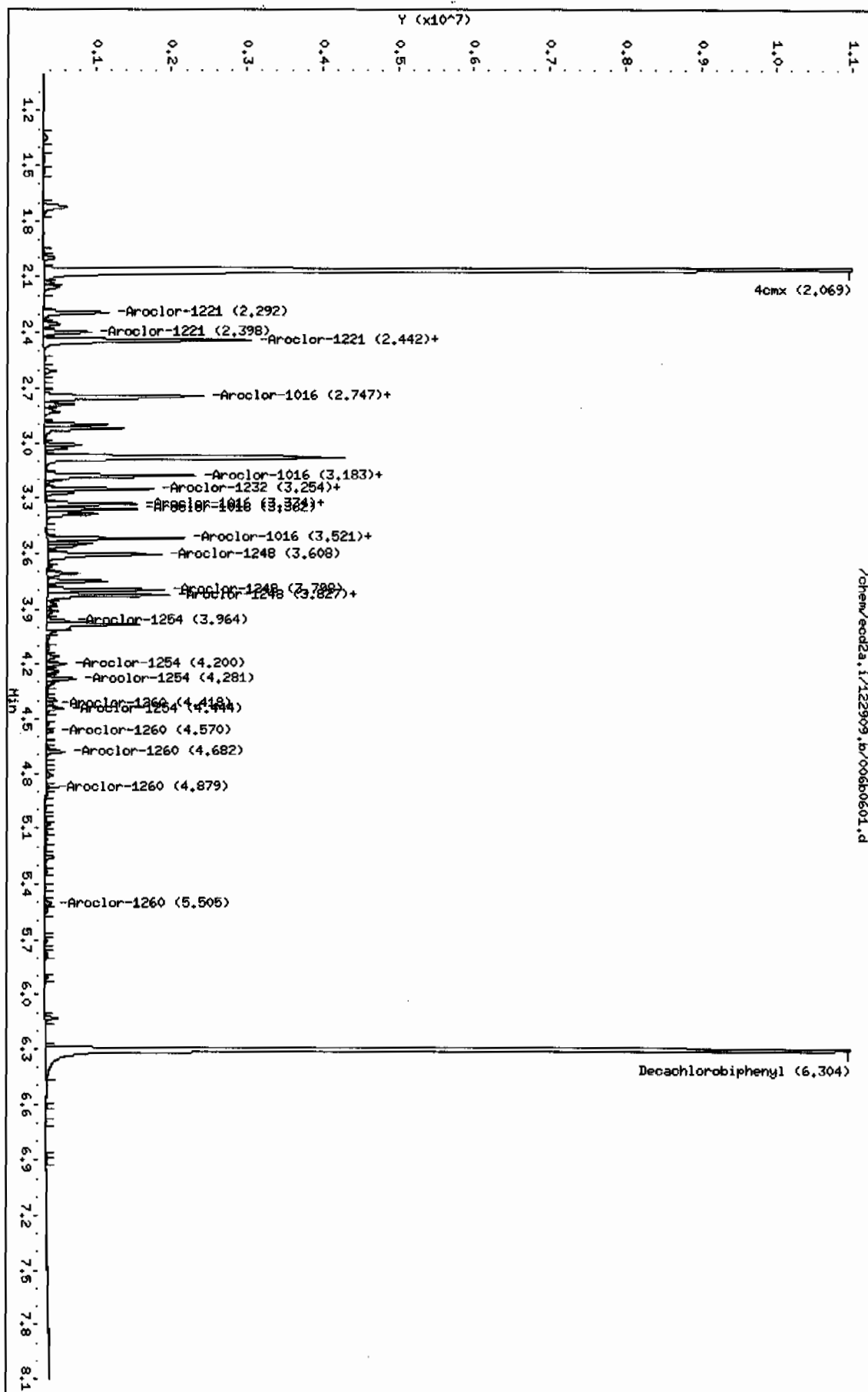
Instrument: eod2a.i

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Column phase: CLP2

Operator: JHOC
Column diameter: 0.25

/chem/eod2a.i/122909.b/0060601.d



Data File: /chem/ecd2a.i/122909.b/007f0701.d
Report Date: 29-Dec-2009 14:38

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/007f0701.d
Lab Smp Id: WAR091111-21 Client Smp ID: AR122101
Inj Date : 29-DEC-2009 08:28
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091111-21
Misc Info : |PCB_CVS|1262||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.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

\$ 11 4cmx					CAS #: 877-09-8	
1.770	1.771	-0.001	7024932 100.000	113	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.610	5.607	0.003	6697965 100.000	124	80.00- 120.00	100.00

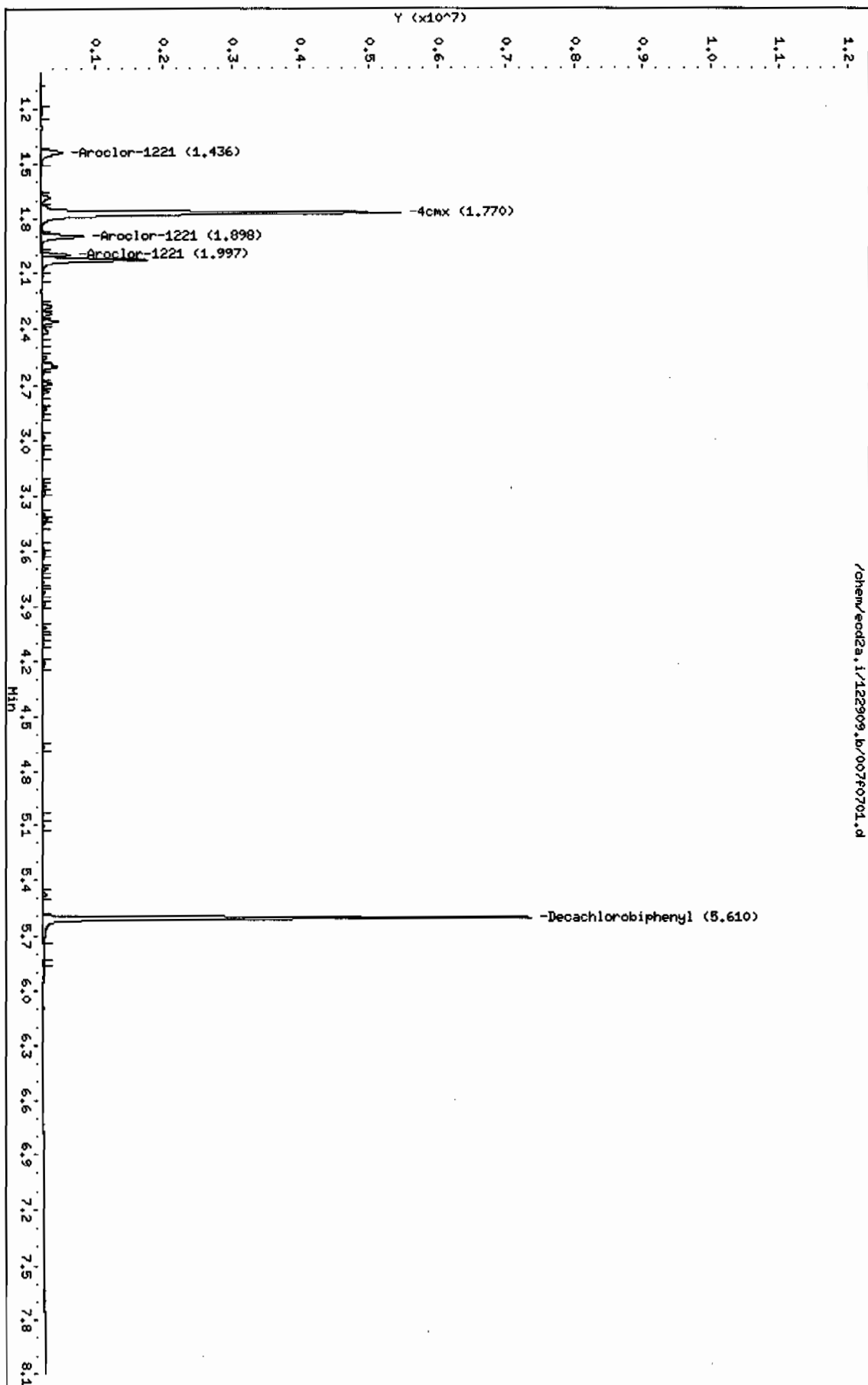
2 Aroclor-1221					CAS #: 11104-28-2	
1.436	1.436	0.000	558071 1000.00	1200	80.00- 120.00	100.00
1.898	1.898	0.000	800768 1000.00	1220	123.49- 163.49	143.49
1.997	1.997	0.000	428834 1000.00	1240	56.84- 96.84	76.84
Average of Peak Amounts =			1.22e+03			

Data File: /chem/eod2a.i/122909.b/007f0701.d
Date : 29-DEC-2009 08:28
Client ID: AR122101
Sample Info: 144R091111-21

Column phase: CLP1

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25

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Data File: /chem/ecd2a.i/122909.b/007b0701.d
Report Date: 29-Dec-2009 14:38

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/007b0701.d
Lab Smp Id: WAR091111-21 Client Smp ID: AR122101
Inj Date : 29-DEC-2009 08:28
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091111-21
Misc Info : |PCB_CVS|1262||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 13:36 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.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

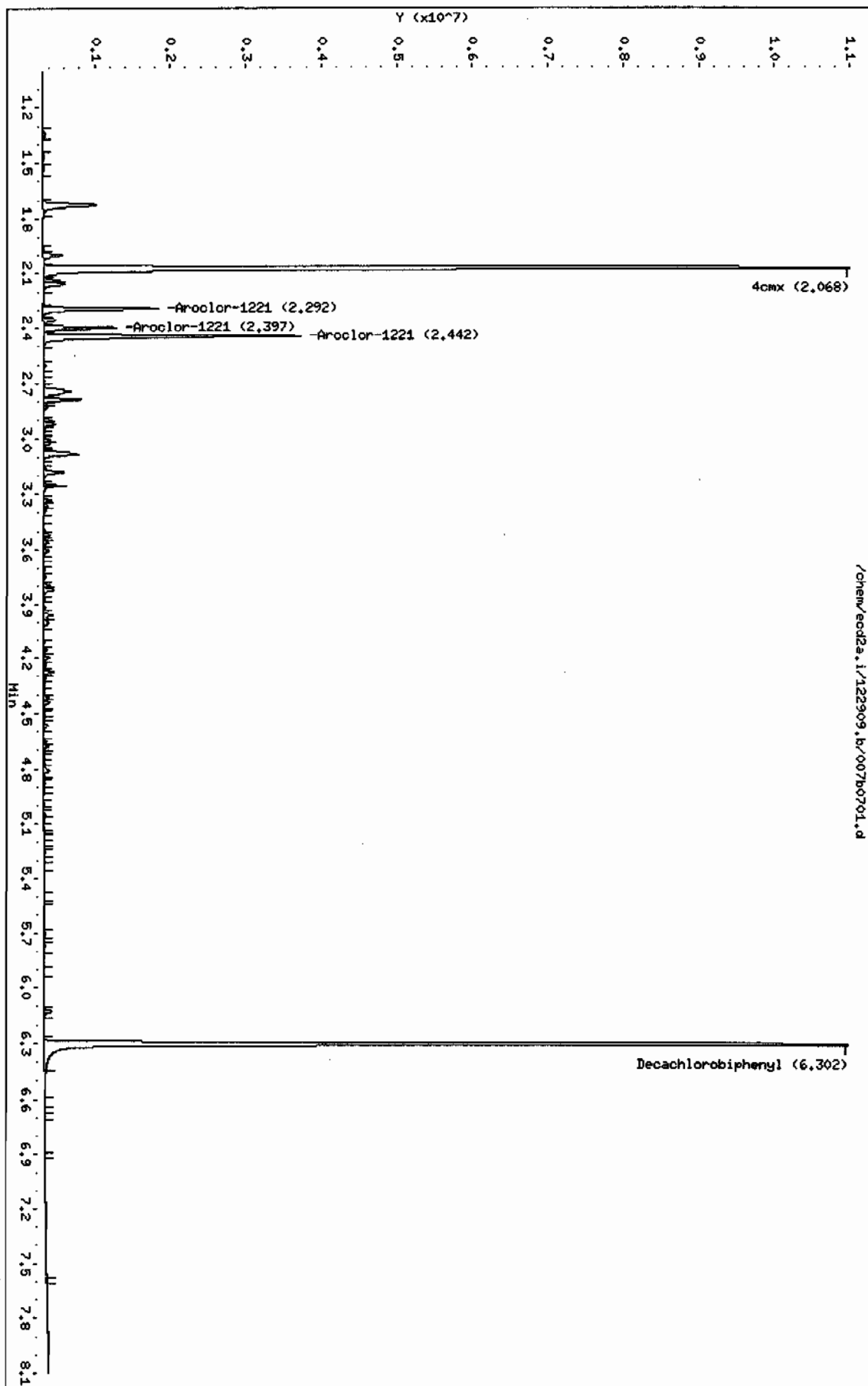
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx				CAS #: 877-09-8		
2.068	2.068	0.000	14992798 100.000	116	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.302	6.300	0.002	14125451 100.000	125	80.00- 120.00	100.00
<hr/>						
2 Aroclor-1221				CAS #: 11104-28-2		
2.292	2.292	0.000	1486678 1000.00	1180	80.00- 120.00	100.00
2.397	2.397	0.000	909190 1000.00	1170	41.16- 81.16	61.16
2.442	2.442	0.000	3573346 1000.00	1170	220.36- 260.36	240.36
Average of Peak Amounts =			1.17e+03			

Data File: /chem/eod2a.i/122909.b/007b0701.d
Date : 29-DEC-2009 08:28
Client ID: AR122101
Sample Info: 14R091111-21

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Column phase: CLP2

Instrument: eod2a.i
Operator: JADC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/022f2201.d
 Report Date: 29-Dec-2009 14:40

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/022f2201.d

Lab Smp Id: WAR091211-60 02

Client Smp ID: AR166002

Inj Date : 29-DEC-2009 11:17

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 02

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 22

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			
1.775	1.771	0.004	6459140 100.000	104	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.610	5.607	0.003	5977776 100.000	110	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
2.276	2.273	0.003	2015417 1000.00	901	80.00- 120.00	100.00	
2.600	2.597	0.003	4292741 1000.00	916	192.49- 232.49	213.00	
2.691	2.688	0.003	1720292 1000.00	905	64.38- 104.38	85.36	
2.826	2.823	0.003	868251 1000.00	890	22.92- 62.92	43.08	
2.976	2.974	0.002	1328140 1000.00	911	43.84- 83.84	65.90	
Average of Peak Amounts =				904			

7 Aroclor-1260				CAS #: 11096-82-5			
4.016	4.014	0.002	4128857 1000.00	991	80.00- 120.00	100.00	
4.287	4.286	0.001	2595441 1000.00	1000	42.56- 82.56	62.86	
4.453	4.451	0.002	2674421 1000.00	1020	44.13- 84.13	64.77	
4.666	4.664	0.002	6344393 1000.00	1040	133.57- 173.57	153.66	
4.855	4.853	0.002	3057700 1000.00	1040	53.66- 93.66	74.06	
Average of Peak Amounts =				1.02e+03			

Data File: /chem/eod2a.i/122909.b/022f2201.d

Date: 29-DEC-2009 11:17

Client ID: AR16002

Sample Info: IWR091211-60 02

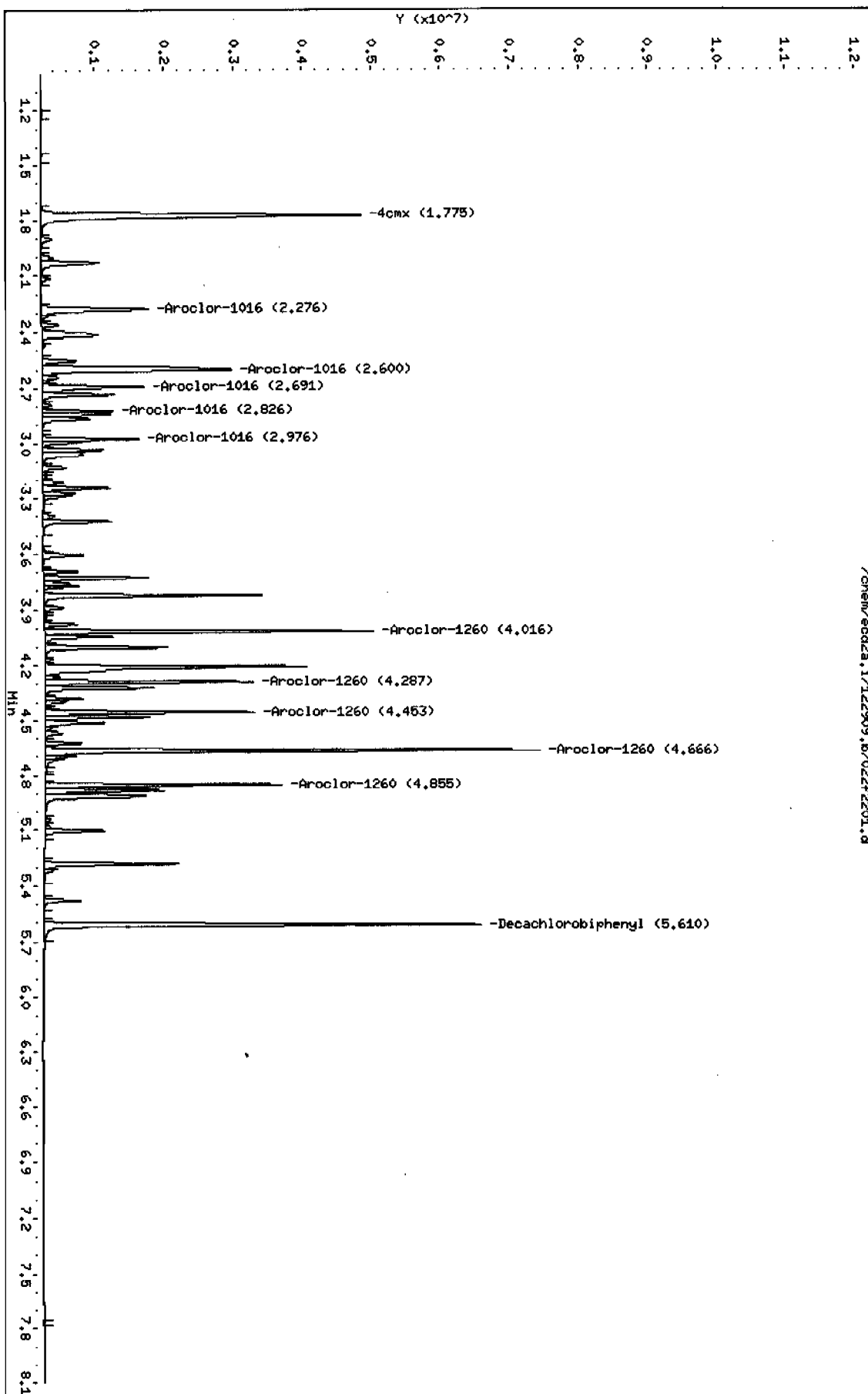
Column phase: CLP1

Instrument: eod2a.i

Operator: JROC

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/022b2201.d

Lab Smp Id: WAR091211-60 02

Client Smp ID: AR166002

Inj Date : 29-DEC-2009 11:17

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 02

Misc Info : |PCB_CVS|1660|CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:45 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.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							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.071	2.068	0.003	13896545	100.000	107	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.302	6.300	0.002	12620643	100.000	112	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.747	2.745	0.002	4206631	1000.00	927	80.00- 120.00	100.00
3.182	3.179	0.003	3357192	1000.00	932	59.81- 99.81	79.81
3.332	3.330	0.002	1937576	1000.00	944	26.06- 66.06	46.06
3.361	3.359	0.002	2015700	1000.00	943	27.92- 67.92	47.92
3.519	3.518	0.001	2726459	1000.00	950	44.81- 84.81	64.81
Average of Peak Amounts =					939		

7 Aroclor-1260					CAS #: 11096-82-5		
4.415	4.414	0.001	5723117	1000.00	992	80.00- 120.00	100.00
4.566	4.565	0.001	7231224	1000.00	1020	106.35- 146.35	126.35
4.678	4.677	0.001	4952700	1000.00	1030	66.54- 106.54	86.54
4.875	4.874	0.001	5709014	1000.00	1010	79.75- 119.75	99.75
5.501	5.500	0.001	9420244	1000.00	1040	144.60- 184.60	164.60
Average of Peak Amounts =					1.02e+03		

Data File: /chem/ecod2a.i/122909.b/02262201.d

Date : 29-DEC-2009 11:17

Client ID: AR166002

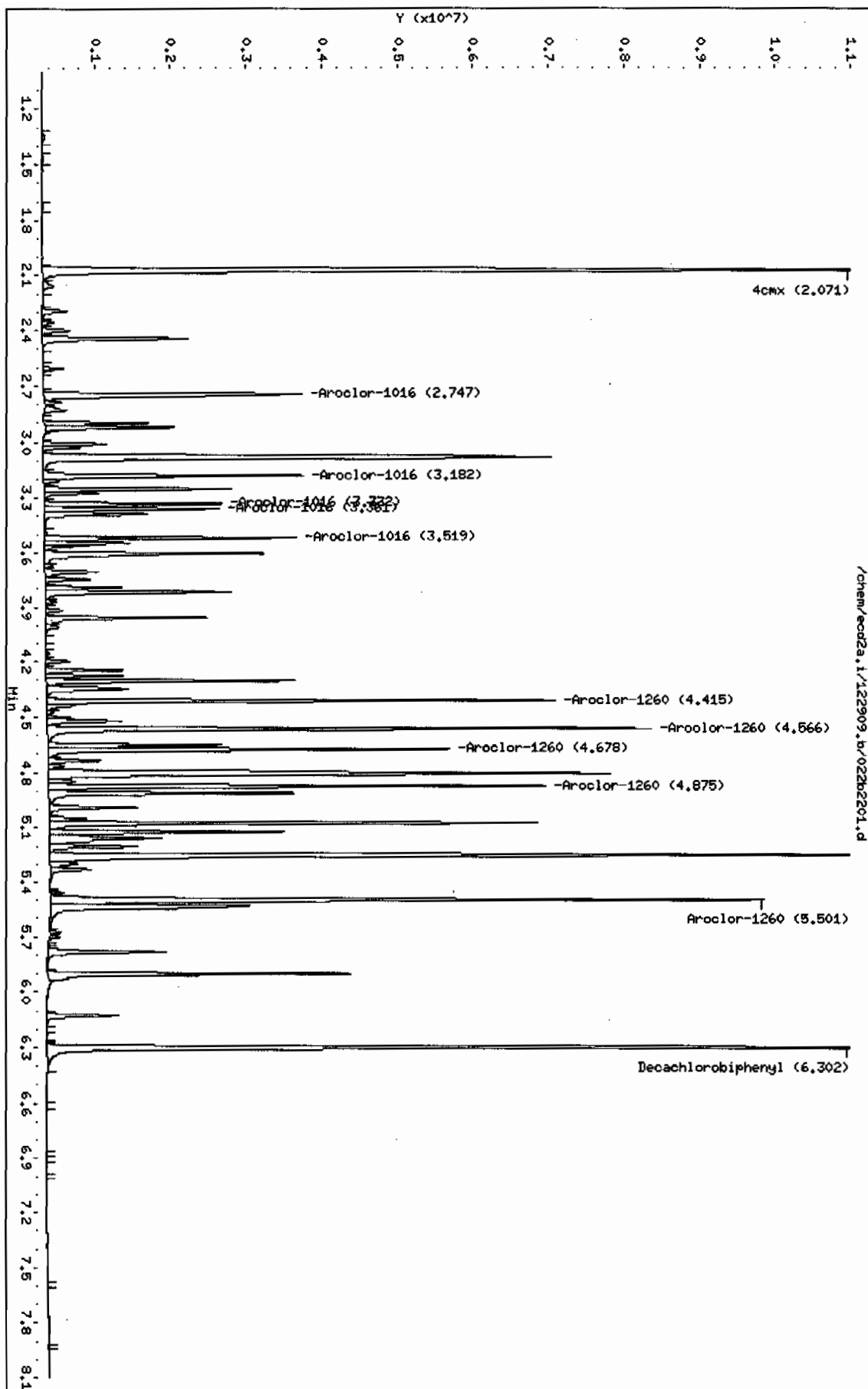
Sample Info: 14R091211-60 02

Column phase: CLP2

Instrument: ecod2a.i

Operator: JHCC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/033f3301.d
Lab Smp Id: WAR091211-60 03 Client Smp ID: AR166003
Inj Date : 29-DEC-2009 13:19
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091211-60 03
Misc Info : |PCB_CVS|1660||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	*****	=====	*****	=====	=====

\$ 11 4cmx				CAS #: 877-09-8		
1.773	1.771	0.002	6389088 100.000	102 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.609	5.607	0.002	5971228 100.000	110 80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2		
2.275	2.273	0.002	1993207 1000.00	891 80.00- 120.00	100.00	
2.599	2.597	0.002	4235450 1000.00	904 191.82- 231.82	212.49	
2.690	2.688	0.002	1681845 1000.00	884 64.77- 104.77	84.38	
2.825	2.823	0.002	855469 1000.00	876 22.45- 62.45	42.92	
2.976	2.974	0.002	1272408 1000.00	873 43.69- 83.69	63.84	
Average of Peak Amounts =				886		

7 Aroclor-1260				CAS #: 11096-82-5		
4.016	4.014	0.002	4051908 1000.00	973 80.00- 120.00	100.00	
4.288	4.286	0.002	2534868 1000.00	978 42.92- 82.92	62.56	
4.453	4.451	0.002	2598438 1000.00	988 46.15- 86.15	64.13	
4.666	4.664	0.002	6222714 1000.00	1020 132.63- 172.63	153.57	
4.855	4.853	0.002	2984601 1000.00	1010 53.77- 93.77	73.66	
Average of Peak Amounts =				995		

Data File: /chem/ecod2a.i/122909.b/033f3301.d

Date: 29-DEC-2009 13:19

Client ID: PR166003

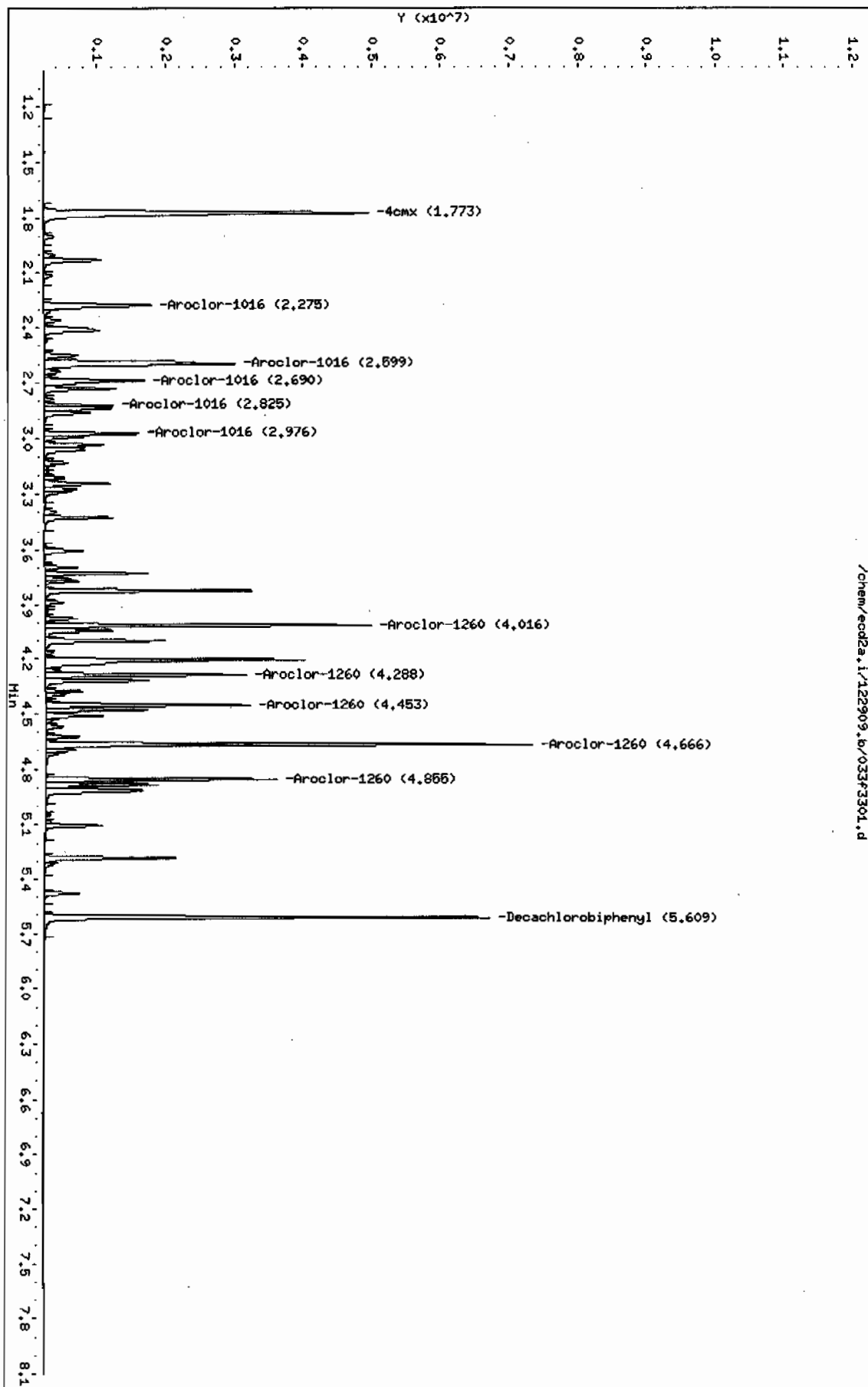
Sample Info: 1MAR091211-60 03

Column phase: CLP1

Instrument: ecod2a.i

Operator: JADC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/033b3301.d
 Lab Smp Id: WAR091211-60 03 Client Smp ID: AR166003
 Inj Date : 29-DEC-2009 13:19
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091211-60 03
 Misc Info : |PCB_CVS|1660||CVS|
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 33 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.070	2.068	0.002	13887946	100.000	107	80.00~ 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.301	6.300	0.001	12610828	100.000	112	80.00~ 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.747	2.745	0.002	4214100	1000.00	929	80.00~ 120.00	100.00
3.182	3.179	0.003	3324513	1000.00	923	58.34~ 98.34	78.89
3.332	3.330	0.002	1908470	1000.00	929	24.56~ 64.56	45.29
3.361	3.359	0.002	1986637	1000.00	930	26.71~ 66.71	47.14
3.519	3.518	0.001	2683627	1000.00	935	43.42~ 83.42	63.68
Average of Peak Amounts *					929		

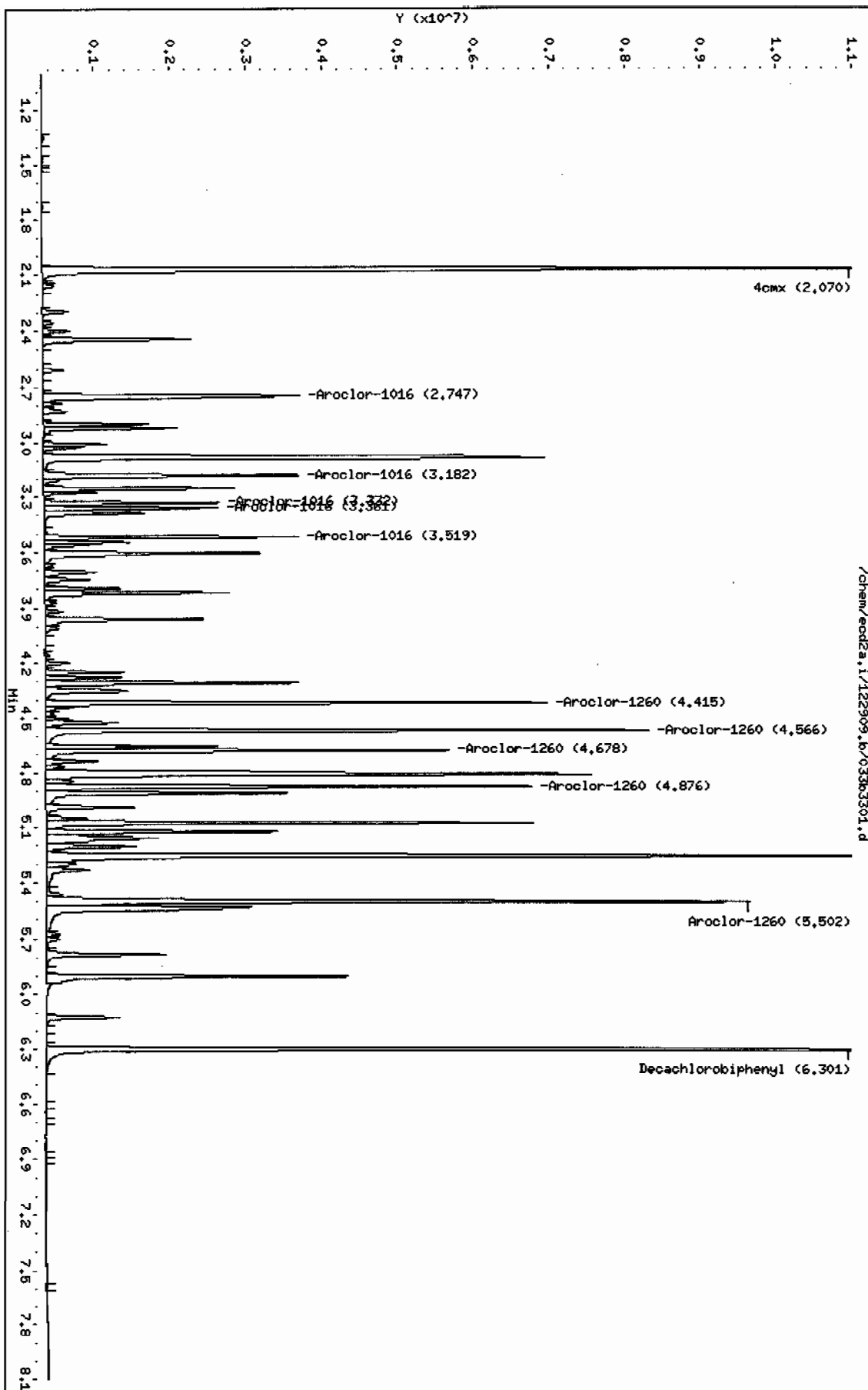
7 Aroclor-1260					CAS #: 11096-82-5		
4.415	4.414	0.001	5648155	1000.00	979	80.00~ 120.00	100.00
4.566	4.565	0.001	7199691	1000.00	1010	107.94~ 147.94	127.47
4.678	4.677	0.001	4916596	1000.00	1020	67.11~ 107.11	87.05
4.876	4.874	0.002	5644741	1000.00	1000	80.57~ 120.57	99.94
5.502	5.500	0.002	9437102	1000.00	1040	146.62~ 186.62	167.08
Average of Peak Amounts *					1.01e+03		

Data File: /chem/eod2a.i/122909.b/03303301.d
Date: 29-DEC-2009 13:19
Client ID: AR166003
Sample Info: 146R091211-60 03

Column phase: CLP2

Instrument: eod2a.i

Operator: JROC
Column diameter: 0.25



8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1074

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.77			DCB: 5.61			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR091130-99	12/14/09 0700	1.77	5.61	
02	ZZZZZ	ZZZZZ	12/14/09 0711	1.77	5.61	
03	AR125401	WAR091102-54	12/14/09 0722	1.77	5.61	
04	AR124201	WAR091102-42	12/14/09 0733	1.77	5.61	
05	AR124801	WAR091027-48	12/14/09 0744	1.77	5.61	
06	AR123201	WAR090930-32	12/14/09 0755	1.77	5.61	
07	AR122101	WAR091111-21	12/14/09 0807	1.77	5.61	
08	ZZZZZ	ZZZZZ	12/14/09 0818	1.77	5.61	
09	AR126201	WAR091111-62	12/14/09 0829	1.77	5.61	
10	AR126801	WAR091106-68	12/14/09 0840	1.77	5.61	
11	AR166001	WAR091214-01	12/14/09 0851	1.77	5.61	
12	AR166002	WAR091214-02	12/14/09 0902	1.77	5.61	
13	AR166003	WAR091214-03	12/14/09 0913	1.77	5.61	
14	AR166004	WAR091214-04	12/14/09 0924	1.77	5.61	
15	AR166005	IAR091102-01	12/14/09 0935	1.77	5.61	
16	AR166001	WAR091211-60	12/14/09 0946	1.77	5.61	
17	DDTANALOGSTD	WAR091020-DD	12/14/09 0958			
18	PIBLK02	WAR091130-99	12/14/09 1009	1.77	5.61	
19	ZZZZZ	ZZZZZ	12/14/09 1020	1.77	5.61	
20	ZZZZZ	ZZZZZ	12/14/09 1031	1.77	5.61	
21	ZZZZZ	ZZZZZ	12/14/09 1042	1.77		
22	ZZZZZ	ZZZZZ	12/14/09 1053	1.76		
23	ZZZZZ	ZZZZZ	12/14/09 1104	1.76		
24	ZZZZZ	ZZZZZ	12/14/09 1115	1.77	5.61	
25	ZZZZZ	ZZZZZ	12/14/09 1126	1.77	5.61	
26	ZZZZZ	ZZZZZ	12/14/09 1137	1.76		
27	ZZZZZ	ZZZZZ	12/14/09 1148	1.77	5.61	
28	ZZZZZ	ZZZZZ	12/14/09 1159	1.76	5.62	
29	AR166002	WAR091211-60	12/14/09 1211	1.77	5.61	
30	PIBLK03	WAR091130-99	12/14/09 1222	1.77	5.61	
31	ZZZZZ	ZZZZZ	12/14/09 1233	1.77	5.61	
32	ZZZZZ	ZZZZZ	12/14/09 1244	1.76		

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.: 10-1074

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.07				DCB: 6.30			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
							#
01	PIBLK01	WAR091130-99	12/14/09	0700	2.07		6.31
02	ZZZZZ	ZZZZZ	12/14/09	0711	2.07		6.30
03	AR125401	WAR091102-54	12/14/09	0722	2.07		6.30
04	AR124201	WAR091102-42	12/14/09	0733	2.07		6.30
05	AR124801	WAR091027-48	12/14/09	0744	2.07		6.30
06	AR123201	WAR090930-32	12/14/09	0755	2.07		6.30
07	AR122101	WAR091111-21	12/14/09	0807	2.07		6.30
08	ZZZZZ	ZZZZZ	12/14/09	0818	2.07		6.30
09	AR166201	WAR091111-62	12/14/09	0829	2.07		6.30
10	AR126801	WAR091106-68	12/14/09	0840	2.07		6.30
11	AR166001	WAR091214-01	12/14/09	0851	2.07		6.30
12	AR166002	WAR091214-02	12/14/09	0902	2.07		6.30
13	AR166003	WAR091214-03	12/14/09	0913	2.07		6.30
14	AR166004	WAR091214-04	12/14/09	0924	2.07		6.30
15	AR166005	IAR091102-01	12/14/09	0935	2.07		6.30
16	AR166001	WAR091211-60	12/14/09	0946	2.07		6.30
17	DDTANALOGSTD	WAR091020-DD	12/14/09	0958			
18	PIBLK02	WAR091130-99	12/14/09	1009	2.07		6.30
19	ZZZZZ	ZZZZZ	12/14/09	1020	2.07		6.30
20	ZZZZZ	ZZZZZ	12/14/09	1031	2.07		6.30
21	ZZZZZ	ZZZZZ	12/14/09	1042	2.07		
22	ZZZZZ	ZZZZZ	12/14/09	1053	2.07		
23	ZZZZZ	ZZZZZ	12/14/09	1104	2.06		
24	ZZZZZ	ZZZZZ	12/14/09	1115	2.07		6.30
25	ZZZZZ	ZZZZZ	12/14/09	1126	2.07		6.31
26	ZZZZZ	ZZZZZ	12/14/09	1137	2.07		
27	ZZZZZ	ZZZZZ	12/14/09	1148	2.07		6.30
28	ZZZZZ	ZZZZZ	12/14/09	1159	2.06		6.30
29	AR166002	WAR091211-60	12/14/09	1211	2.07		6.30
30	PIBLK03	WAR091130-99	12/14/09	1222	2.07		6.30
31	ZZZZZ	ZZZZZ	12/14/09	1233	2.07		6.31
32	ZZZZZ	ZZZZZ	12/14/09	1244	2.07		

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.: 10-1074

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.77			DCB: 5.61		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	12/29/09 0715	1.77	5.60
02	AR166001	WAR091211-60	12/29/09 0726	1.77	5.61
03	AR125401	WAR091216-54	12/29/09 0737	1.77	5.61
04	AR124201	WAR091217-42	12/29/09 0748	1.77	5.61
05	AR124801	WAR091217-48	12/29/09 0759	1.77	5.61
06	AR123201	WAR090930-32	12/29/09 0817	1.77	5.62
07	AR122101	WAR091111-21	12/29/09 0828	1.77	5.61
08	AR126201	WAR091111-62	12/29/09 0839	1.77	5.61
09	AR126801	WAR091106-68	12/29/09 0850	1.77	5.61
10	DDTANALOGSTD	WAR091219-DD	12/29/09 0901		
11	PIBLK02	WAR091130-99	12/29/09 0913	1.77	5.61
12	PBLK01	1202005226	12/29/09 0927	1.77	5.61
13	PBLK01LCS	1202005227	12/29/09 0938	1.77	5.61
14	ZZZZZ	ZZZZZ	12/29/09 0949	1.77	5.61
15	ZZZZZ	ZZZZZ	12/29/09 1000	1.77	5.61
16	ZZZZZ	ZZZZZ	12/29/09 1011	1.77	5.61
17	ZZZZZ	ZZZZZ	12/29/09 1022	1.77	5.61
18	ZZZZZ	ZZZZZ	12/29/09 1033	1.77	5.61
19	ZZZZZ	ZZZZZ	12/29/09 1044	1.77	5.61
20	ZZZZZ	ZZZZZ	12/29/09 1055	1.77	5.61
21	ZZZZZ	ZZZZZ	12/29/09 1106	1.77	5.61
22	AR166002	WAR091211-60	12/29/09 1117	1.77	5.61
23	PIBLK03	WAR091130-99	12/29/09 1128	1.77	5.61
24	ZZZZZ	ZZZZZ	12/29/09 1140	1.77	5.61
25	ZZZZZ	ZZZZZ	12/29/09 1151	1.77	5.61
26	ZZZZZ	ZZZZZ	12/29/09 1202	1.77	5.61
27	ZZZZZ	ZZZZZ	12/29/09 1213	1.77	5.61
28	RE12-10-7606	243519001	12/29/09 1224	1.77	5.61
29	RE12-10-7607	243519002	12/29/09 1235	1.77	5.61
30	RE12-10-7596	243519003	12/29/09 1246	1.77	5.61
31	RE12-10-7597	243519004	12/29/09 1257	1.77	5.61
32	RE12-10-7608	243519005	12/29/09 1308	1.77	5.61

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.: 10-1074

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.77			DCB: 5.61		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR166003	WAR091211-60	12/29/09 1319	1.77	5.61
02	PIBLK04	WAR091130-99	12/29/09 1330	1.77	5.61
03	ZZZZZ	ZZZZZ	12/29/09 1342	1.77	5.61
04	ZZZZZ	ZZZZZ	12/29/09 1353	1.77	5.61
05	ZZZZZ	ZZZZZ	12/29/09 1404	1.77	5.61
06	ZZZZZ	ZZZZZ	12/29/09 1415	1.77	5.61
07	AR166004	WAR091211-60	12/29/09 1426	1.77	5.61
08	PIBLK05	WAR091130-99	12/29/09 1437	1.77	5.61
09					
10					
11					
12					
13					
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31					
32					

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1074

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.07				DCB: 6.30			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	12/29/09	0715	2.07	6.30	
02	AR166001	WAR091211-60	12/29/09	0726	2.07	6.30	
03	AR125401	WAR091216-54	12/29/09	0737	2.07	6.30	
04	AR124201	WAR091217-42	12/29/09	0748	2.07	6.30	
05	AR124801	WAR091217-48	12/29/09	0759	2.07	6.30	
06	AR123201	WAR090930-32	12/29/09	0817	2.07	6.30	
07	AR122101	WAR091111-21	12/29/09	0828	2.07	6.30	
08	AR126201	WAR091111-62	12/29/09	0839	2.07	6.30	
09	AR126801	WAR091106-68	12/29/09	0850	2.07	6.30	
10	DDTANALOGSTD	WAR091219-DD	12/29/09	0901			
11	PIBLK02	WAR091130-99	12/29/09	0913	2.07	6.30	
12	PBLK01	1202005226	12/29/09	0927	2.07	6.30	
13	PBLK01LCS	1202005227	12/29/09	0938	2.07	6.30	
14	ZZZZZ	ZZZZZ	12/29/09	0949	2.07	6.30	
15	ZZZZZ	ZZZZZ	12/29/09	1000	2.07	6.30	
16	ZZZZZ	ZZZZZ	12/29/09	1011	2.07	6.30	
17	ZZZZZ	ZZZZZ	12/29/09	1022	2.07	6.30	
18	ZZZZZ	ZZZZZ	12/29/09	1033	2.07	6.30	
19	ZZZZZ	ZZZZZ	12/29/09	1044	2.07	6.30	
20	ZZZZZ	ZZZZZ	12/29/09	1055	2.07	6.30	
21	ZZZZZ	ZZZZZ	12/29/09	1106	2.07	6.30	
22	AR166002	WAR091211-60	12/29/09	1117	2.07	6.30	
23	PIBLK03	WAR091130-99	12/29/09	1128	2.07	6.30	
24	ZZZZZ	ZZZZZ	12/29/09	1140	2.07	6.30	
25	ZZZZZ	ZZZZZ	12/29/09	1151	2.07	6.30	
26	ZZZZZ	ZZZZZ	12/29/09	1202	2.07	6.30	
27	ZZZZZ	ZZZZZ	12/29/09	1213	2.07	6.30	
28	RE12-10-7606	243519001	12/29/09	1224	2.07	6.30	
29	RE12-10-7607	243519002	12/29/09	1235	2.07	6.30	
30	RE12-10-7596	243519003	12/29/09	1246	2.07	6.30	
31	RE12-10-7597	243519004	12/29/09	1257	2.07	6.30	
32	RE12-10-7608	243519005	12/29/09	1308	2.07	6.30	

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.: 10-1074

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.07			DCB: 6.30			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
=====	=====	=====	=====	=====		=====
01 AR166003	WAR091211-60	12/29/09	1319	2.07		6.30
02 PIBLK04	WAR091130-99	12/29/09	1330	2.07		6.30
03 ZZZZZ	ZZZZZ	12/29/09	1342	2.07		6.30
04 ZZZZZ	ZZZZZ	12/29/09	1353	2.07		6.30
05 ZZZZZ	ZZZZZ	12/29/09	1404	2.07		6.30
06 ZZZZZ	ZZZZZ	12/29/09	1415	2.07		6.30
07 AR166004	WAR091211-60	12/29/09	1426	2.07		6.30
08 PIBLK05	WAR091130-99	12/29/09	1437	2.07		6.30
09						
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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: 10-1074

Client ID: LCS for batch 937092

Lab Sample ID: 1202005227

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD2A.I_1

Inst: ECD2A.I_2

Column: CLP1

Column: CLP2

Analyzed: 29-DEC-09 09:38

Analyzed: 29-DEC-09 09:38

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.673
Column 1	1	2.28	2.24 - 2.3	21.8		ug/kg	
	2	2.6	2.57 - 2.63	21.1		ug/kg	
	3	2.69	2.66 - 2.72	20.8		ug/kg	
	4	2.83	2.79 - 2.85	21.1		ug/kg	
	5	2.98	2.94 - 3	20.9		ug/kg	
					21.2		
Column 2	1	2.75	2.72 - 2.78	21.1		ug/kg	
	2	3.18	3.15 - 3.21	20.7		ug/kg	
	3	3.33	3.3 - 3.36	21.2		ug/kg	
	4	3.36	3.33 - 3.39	20.8		ug/kg	
	5	3.52	3.49 - 3.55	21.2		ug/kg	
					21		
Aroclor-1260							2.56
Column 1	1	4.02	3.98 - 4.04	25.4		ug/kg	
	2	4.29	4.26 - 4.32	25.9		ug/kg	
	3	4.45	4.42 - 4.48	26.3		ug/kg	
	4	4.67	4.63 - 4.69	27.5		ug/kg	
	5	4.86	4.82 - 4.88	26.3		ug/kg	
					26.3		
Column 2	1	4.42	4.38 - 4.44	24.4		ug/kg	
	2	4.57	4.54 - 4.6	25.5		ug/kg	
	3	4.68	4.65 - 4.71	25.2		ug/kg	
	4	4.88	4.84 - 4.9	25.6		ug/kg	
	5	5.5	5.47 - 5.53	27.3		ug/kg	
					25.6		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1074

Matrix: SOIL

Lab Sample ID: 1202005226

Client Sample: QC for batch 937092

Client: LANL010

Project: QC

Client ID: MB for batch 937092

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 937093

Inst: ECD2A.I

Dilution: 1

Run Date: 12/29/2009 09:27

Analyst: JAOC

Inj. Vol: 1 uL

Prep Date: 12/28/2009 20:43

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

Data File: /chem/ecd2a.i/122909.b/012f1201-4.d
Report Date: 30-Dec-2009 10:14

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/012f1201-4.d
Lab Smp Id: 1202005226 Client Smp ID: PBLK01
Inj Date : 29-DEC-2009 09:27
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202005226|1|
Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1074.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx							CAS #: 877-09-8	
1.770	1.771	-0.001	8143925	130.739	4.4	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl							CAS #: 2051-24-3	
5.613	5.607	0.006	7671039	141.763	4.7	80.00- 120.00	100.00	

Data File: /chem/ecod2a.i/122909.b/012f1201-4.d

Date : 29-DEC-2009 09:27

Client ID: PBLK01

Sample Info: 1120200522611

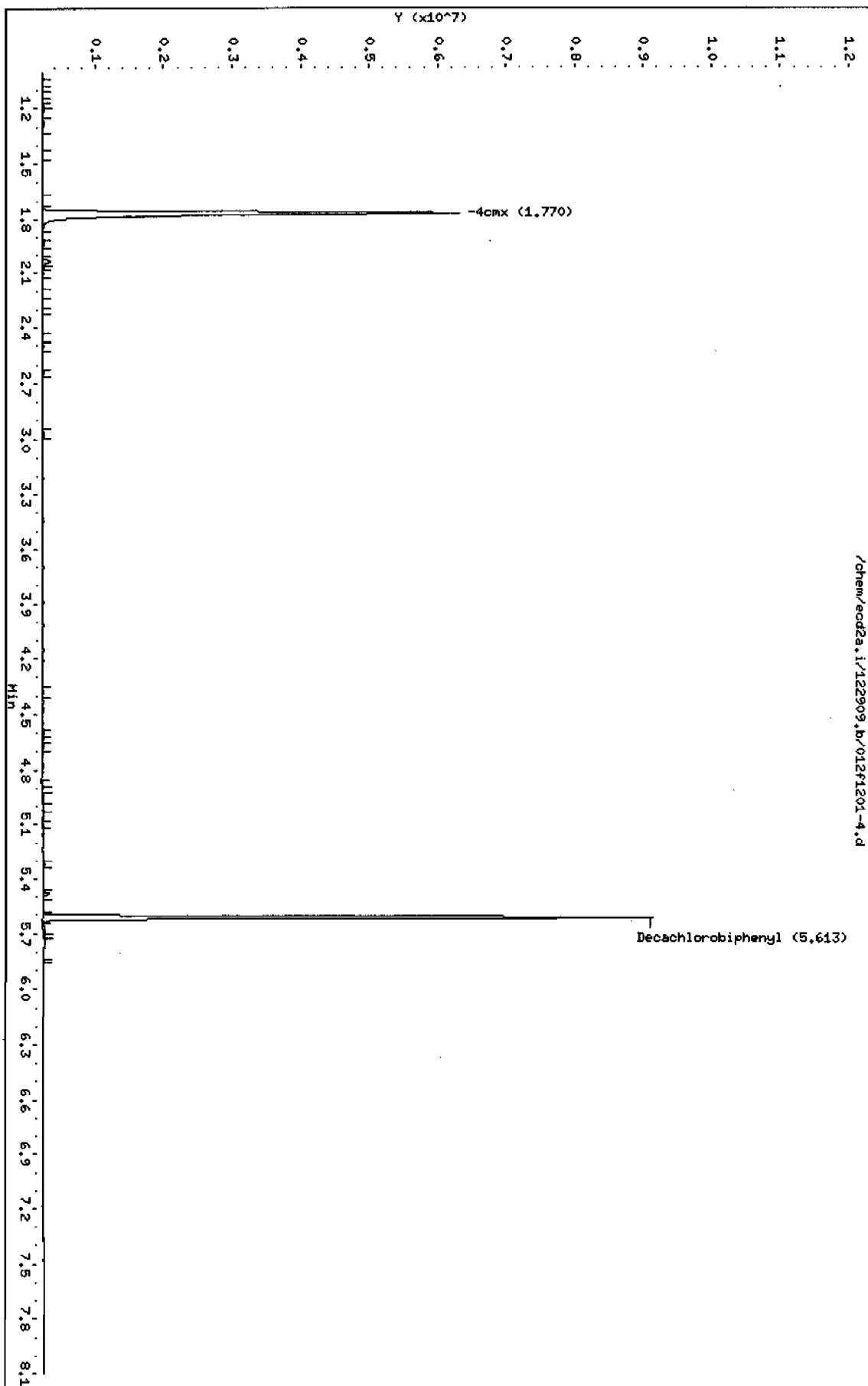
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecod2a.i

Operator: J90C

Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/012b1201-4.d
 Report Date: 30-Dec-2009 10:11

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/012b1201-4.d
 Lab Smp Id: 1202005226 Client Smp ID: PBLK01
 Inj Date : 29-DEC-2009 09:27
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005226|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1074.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO

\$ 11 4cmx					CAS #: 877-09-8	
2.066	2.068	-0.002	17916708	138.548	4.6 80.00~ 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.303	6.300	0.003	18327481	162.502	5.4 80.00~ 120.00	100.00

Data File: /chem/ecod2a.i/122909.b/012b1201-4.d

Date : 29-DEC-2009 09:27

Client ID: PRLK01

Sample Info: 11202005226141

Volume Injected (uL): 1.0

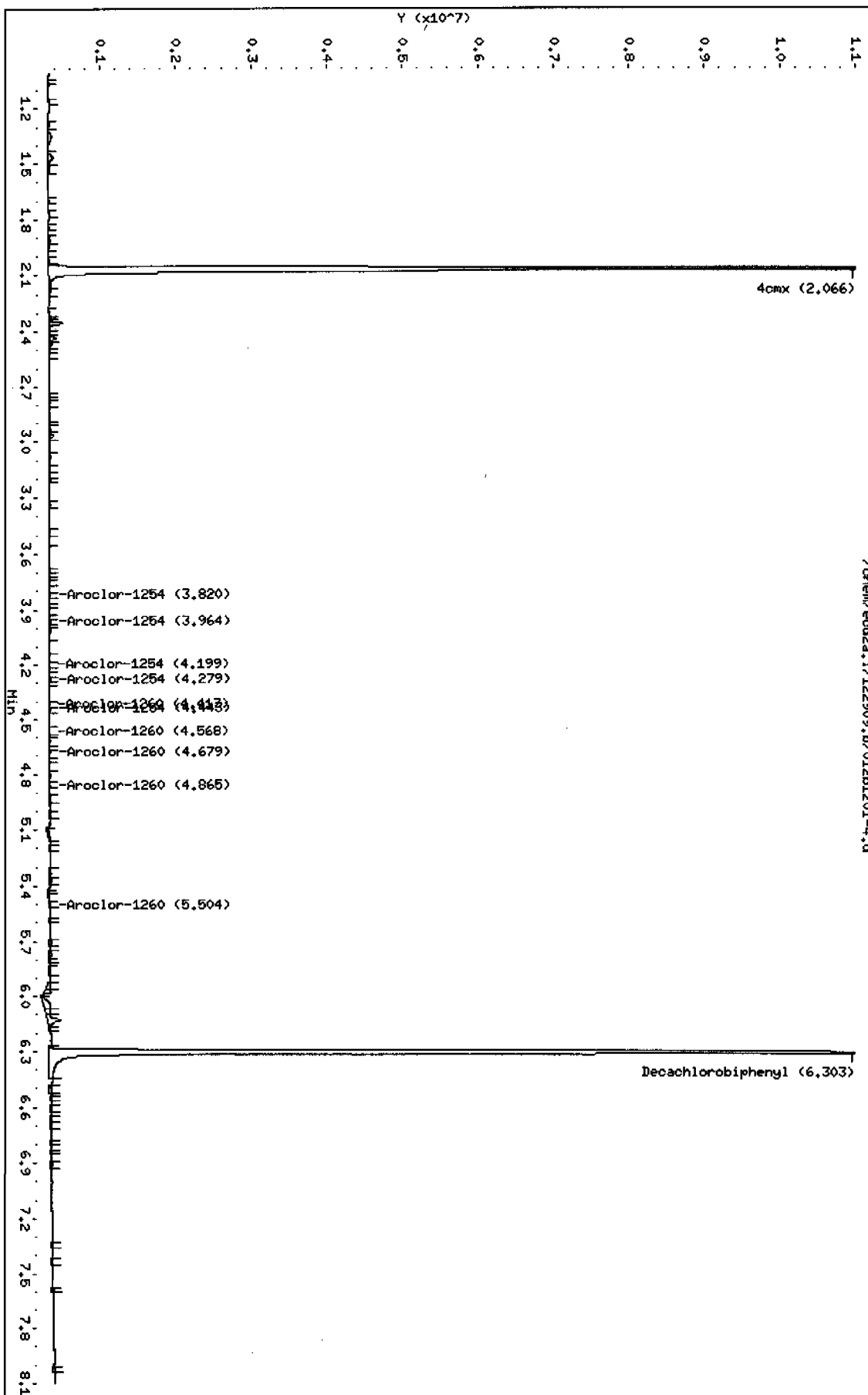
Column phase: CLP2

Instrument: ecod2a.i

Operator: JHOC

Column diameter: 0.25

Page 1



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1074

Lab Sample ID: 1202005227

Client Sample: QC for batch 937092

Client ID: LCS for batch 937092

Batch ID: 937093

Run Date: 12/29/2009 09:38

Prep Date: 12/28/2009 20:43

Data File: 013f1301-1.d

013b1301-1.d

Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL

Project: QC
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		21.1	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		26.3	ug/kg	1.11	3.33	1

Data File: /chem/ecd2a.i/122909.b/013f1301-4.d
 Report Date: 30-Dec-2009 10:14

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/013f1301-4.d
 Lab Smp Id: 1202005227 Client Smp ID: PBLK01LCS
 Inj Date : 29-DEC-2009 09:38
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005227|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1074.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					CAS #: 877-09-8		
1.773	1.771	0.002	8184621 131.392	4.4	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.610	5.607	0.003	7531097 139.177	4.6	80.00- 120.00	100.00	
1 Aroclor-1016					CAS #: 12674-11-2		
2.276	2.273	0.003	1464235 654.351	21.8	80.00- 120.00	100.00	
2.599	2.597	0.002	2965794 633.004	21.1	191.82- 231.82	202.55	
2.691	2.688	0.003	1186756 624.122	20.8	64.77- 104.77	81.05	
2.826	2.823	0.003	618759 633.989	21.1	22.45- 62.45	42.26	

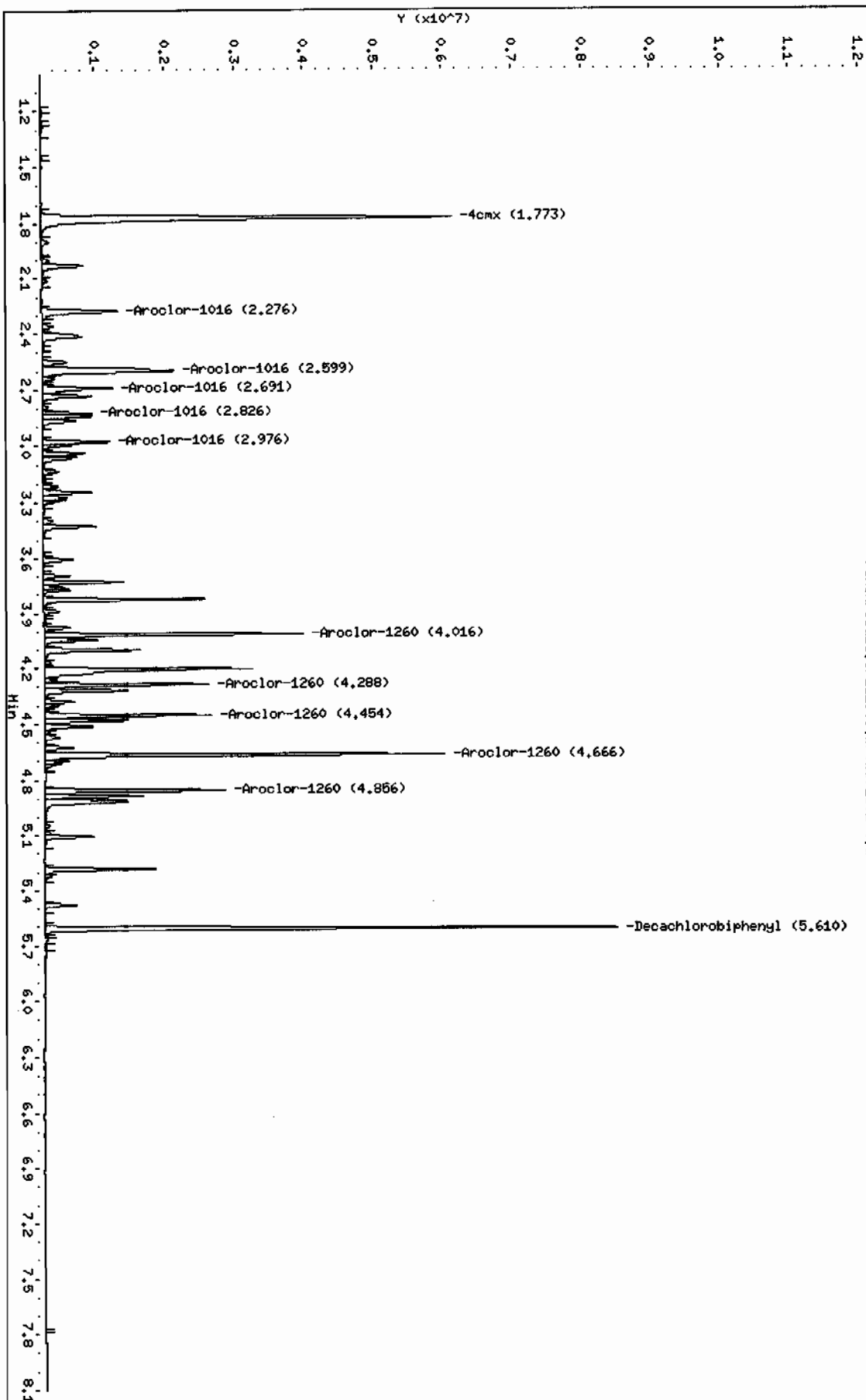
CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
2.976	2.974	0.002	915257	627.806	20.9	43.69-	83.69	62.51	
Average of Peak Concentrations =					21.2				

7 Aroclor-1260					CAS #:	11096-82-5			
4.016	4.014	0.002	3171930	761.550	25.4	80.00-	120.00	100.00	
4.288	4.286	0.002	2014984	777.815	25.9	42.92-	82.92	63.53	
4.454	4.451	0.003	2076929	789.345	26.3	46.15-	86.15	65.48	
4.666	4.664	0.002	5017946	824.290	27.5	132.63-	172.63	158.20	
4.856	4.853	0.003	2320195	788.605	26.3	53.77-	93.77	73.15	
Average of Peak Concentrations =					26.3				

Data File: /chem/eod2a.i/122909.b/013F1301-4.d
Date: 29-DEC-2009 09:38
Client ID: PRLK01LCS
Sample Info: 1202005227141
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JHOC
Column diameter: 0.25

/chem/eod2a.i/122909.b/013F1301-4.d



Data File: /chem/ecd2a.i/122909.b/013b1301-4.d
Report Date: 30-Dec-2009 10:12

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd2a.i/122909.b/013b1301-4.d
Lab Smp Id: 1202005227 Client Smp ID: PBLK01LCS
Inj Date : 29-DEC-2009 09:38
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202005227|1|
Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1074.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				
2.070	2.068	0.002	17898820 138.409	4.6	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
6.302	6.300	0.002	17817344 157.979	5.3	80.00- 120.00	100.00	

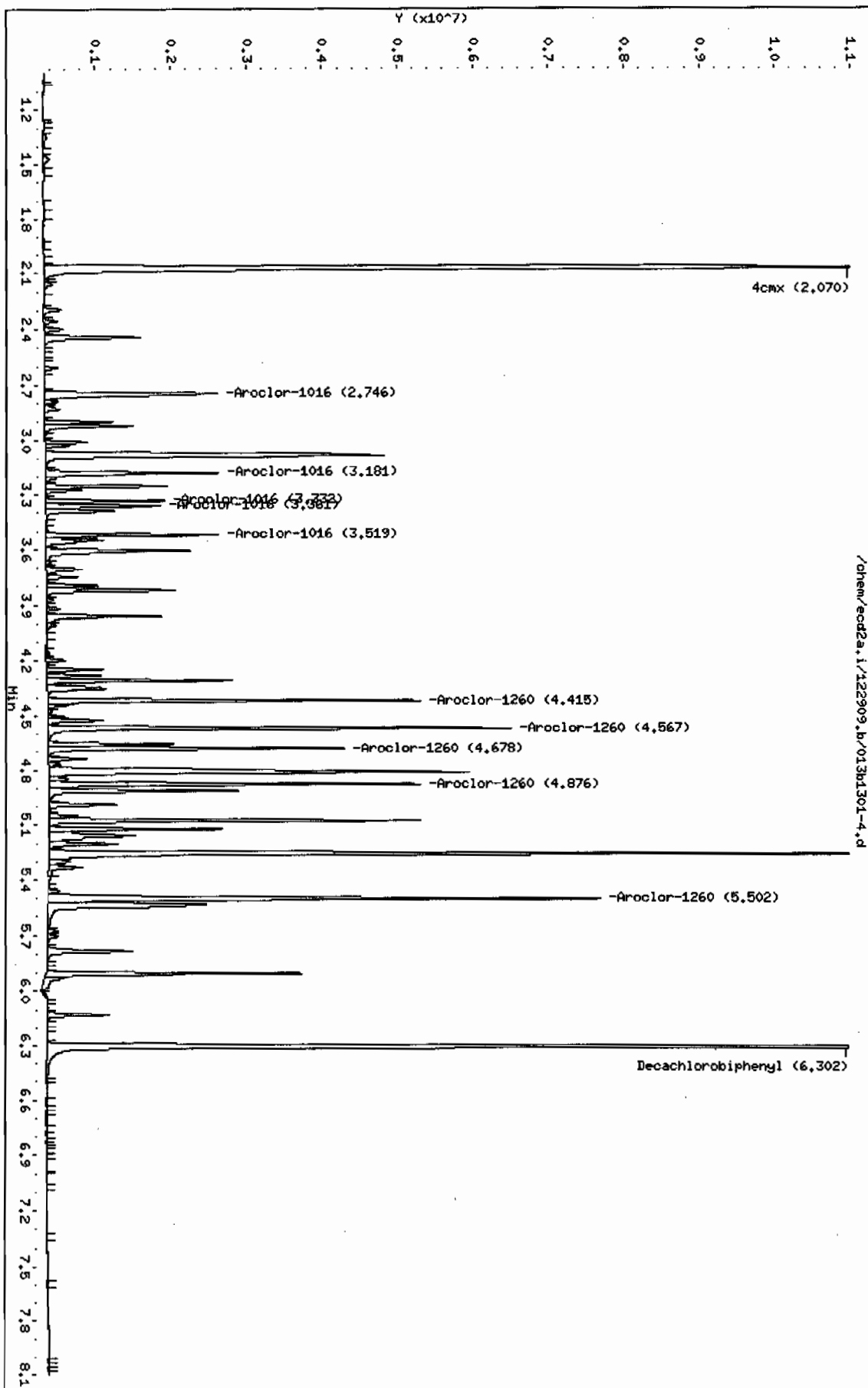
1 Aroclor-1016			CAS #: 12674-11-2				
2.746	2.745	0.001	2879212 634.492	21.1	80.00- 120.00	100.00	
3.181	3.179	0.002	2234760 620.393	20.7	58.34- 98.34	77.62	
3.332	3.330	0.002	1305611 635.882	21.2	24.56- 64.56	45.35	
3.361	3.359	0.002	1333055 623.771	20.8	26.71- 66.71	46.30	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)									
3.519	3.518	0.001	1829775	637.438	21.2	43.42-	83.42	63.55	
Average of Peak Concentrations =					21.0				

7 Aroclor-1260					CAS #: 11096-82-5				
4.415	4.414	0.001	4221981	732.103	24.4	80.00-	120.00	100.00	
4.567	4.565	0.002	5453794	765.564	25.5	107.94-	147.94	129.18	
4.678	4.677	0.001	3640930	755.582	25.2	67.11-	107.11	86.24	
4.876	4.874	0.002	4331800	769.174	25.6	80.57-	120.57	102.60	
5.502	5.500	0.002	7406477	819.526	27.3	146.62-	186.62	175.43	
Average of Peak Concentrations =					25.6				

Data File: /chem/ecod2a.i/122909.b/013b1301-4.d
 Date : 29-DEC-2009 09:38
 Client ID: PBLK01LCS
 Sample Info: 11292005227/11
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecod2a.i
 Operator: JPD
 Column diameter: 0.25



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD2

DATE: 12/14/2009

METHOD: ECD2-F-8082-111209A.m

OPERATOR: YS1

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT: DA385

ALUMINA LOT: 1230997-A

COPPER LOT: 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standards Log

Initial Calibration Std ID's: See Calibration History and Standards Log

GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography

Injection Volume: 1.0 uL

Sequence Number:

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1WAR091130-99 IB	YS1	14-DEC-2009 07:00	1	121409	1.01	1CLEAN	
1002f0201.d	1WAR091211-60 01	YS1	14-DEC-2009 07:11	1	121409	1.01	1DUSE RE-I-CAL	
1003f0301.d	1WAR091102-54	YS1	14-DEC-2009 07:22	1	121409	1.01	1PASSED ON BOTH COLUMNS	
1004f0401.d	1WAR091102-42	YS1	14-DEC-2009 07:33	1	121409	1.01	1PASSED ON BOTH COLUMNS	
1005f0501.d	1WAR091027-48	YS1	14-DEC-2009 07:44	1	121409	1.01	1PASSED ON BOTH COLUMNS	
1006f0601.d	1WAR090930-32	YS1	14-DEC-2009 07:55	1	121409	1.01	1PATTERN ONLY	
1007f0701.d	1WAR091111-21	YS1	14-DEC-2009 08:07	1	121409	1.01	1PATTERN ONLY	
1008f0801.d	1ARI1660-4	YS1	14-DEC-2009 08:18	1	121409	1.01	1DUSE SCREEN	
1009f0901.d	1WAR091111-62	YS1	14-DEC-2009 08:29	1	121409	1.01	1PATTERN ONLY	
1010f1001.d	1WAR091106-68	YS1	14-DEC-2009 08:40	1	121409	1.01	1PATTERN ONLY	
1011f1101.d	1WAR091214-01 60	YS1	14-DEC-2009 08:51	1	121409	1.01	1ARI1660 I-CAL LEVEL 1	
1012f1201.d	1WAR091214-02 60	YS1	14-DEC-2009 09:02	1	121409	1.01	1ARI1660 I-CAL LEVEL 2	
1013f1301.d	1WAR091214-03 60	YS1	14-DEC-2009 09:13	1	121409	1.01	1ARI1660 I-CAL LEVEL 3	
1014f1401.d	1WAR091214-04 60	YS1	14-DEC-2009 09:24	1	121409	1.01	1ARI1660 I-CAL LEVEL 4	
1015f1501.d	1IAR091102-01	YS1	14-DEC-2009 09:35	1	121409	1.01	1ARI1660 I-CAL LEVEL 5	

Instrument Batch: /chem/ecd2a.i/121409.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1016f1601.d	1WAR091211-60 01	YS1	14-DEC-2009 09:46	1	121409	1.01	1PASSED ON BOTH COLUMNS	

1017f1701.d	WAR091020-DDT	YS1	14-DEC-2009 09:58	1	121409	1	1.0	ODT ANALOG STANDARD
1018f1801.d	WAR091130-99 02	YS1	14-DEC-2009 10:09	ISOLV	121409	1	1.0	IB
1019f1901.d	1201992205	YS1	14-DEC-2009 10:20	931371	241934	1	1.0	QC A
1020f2001.d	1201992206	YS1	14-DEC-2009 10:31	931371	241934	1	1.0	QC A
1021f2101.d	241934001	YS1	14-DEC-2009 10:42	931371	241934	1	10.0	NREA
1022f2201.d	1201992207	YS1	14-DEC-2009 10:53	931371	241934	1	10.0	QC A
1023f2301.d	1201992208	YS1	14-DEC-2009 11:04	931371	241934	1	10.0	QC A
1024f2401.d	241934002	YS1	14-DEC-2009 11:15	931371	241934	1	1.0	NREA
1025f2501.d	241934003	YS1	14-DEC-2009 11:26	931371	241934	1	1.0	NREA
1026f2601.d	241934004	YS1	14-DEC-2009 11:37	931371	241934	1	10.0	NREA
1027f2701.d	241934005	YS1	14-DEC-2009 11:48	931371	241934	1	1.0	NREA
1028f2801.d	241934006	YS1	14-DEC-2009 11:59	931371	241934	1	20.0	NREA
1029f2901.d	WAR091211-60 02	YS1	14-DEC-2009 12:11	11660	121409	1	1.0	CVS
1030f3001.d	WAR091130-99 03	YS1	14-DEC-2009 12:22	ISOLV	121409	1	1.0	IB
1031f3101.d	241934007	YS1	14-DEC-2009 12:33	931371	241934	1	1.0	NREA
1032f3201.d	241934008	YS1	14-DEC-2009 12:44	931371	241934	1	10.0	NREA
1033f3301.d	241934009	YS1	14-DEC-2009 13:00	931371	241934	1	1.0	NREA
1034f3401.d	241934010	YS1	14-DEC-2009 13:11	931371	241934	1	10.0	NREA
1035f3501.d	241934011	YS1	14-DEC-2009 13:27	931371	241934	1	5.0	NREA

Page: 2

Instrument Batch: /chem/ecd2a.i/121409.b

1036f3601.d	241935001	YS1	14-DEC-2009 13:43	931371	241935	1	1.0	NREA
1037f3701.d	241935004	YS1	14-DEC-2009 13:54	931371	241935	1	5.0	NREA
1038f3801.d	241935005	YS1	14-DEC-2009 14:05	931371	241935	1	5.0	NREA
1039f3901.d	241935006	YS1	14-DEC-2009 14:21	931371	241935	1	50.0	NREA
1040f4001.d	241935007	YS1	14-DEC-2009 14:36	931371	241935	1	5.0	NREA
1041f4101.d	WAR091211-60 03	YS1	14-DEC-2009 14:52	1	121409	1	1.0	IB

1042f4201.d	IWAR091130-99 04	YSL	14-DEC-2009 15:03	SOLV	121409	1	1.0	IB	CLEAN	
1043f4301.d	1241934009	YSL	14-DEC-2009 15:14	1931371	1241934	1	5.0	NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
1044f4401.d	1241935008	YSL	14-DEC-2009 15:30	1931371	1241935	1	20000.0	NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
1045f4501.d	IWAR091211-60 04	YSL	14-DEC-2009 15:45	1	121409	1	1.0		PASSED ON BOTH COLUMNS	

Instrument Batch: /chem/ecd2a.i/121409.b

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GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD2

DATE: 12/30/2009

METHOD: ECD2-F-8082-111209A.m

OPERATOR: JAOC

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT: DA385

ALUMINA LOT: 1230997-A

COPPER LOT: 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standards Log

Initial Calibration Std ID's: See Calibration History and Standards Log

GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography

Injection Volume: 1.0 uL

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
I001f0101.d	WAR091130-99 IB	JAOC	129-DEC-2009 07:15	I122909	I 1.0I	I	CLEAN	
I002f0201.d	WAR091211-60 01	JAOC	129-DEC-2009 07:26	I122909	I 1.0I	I	PASSES BOTH COLUMNS	
I003f0301.d	WAR091216-54	JAOC	129-DEC-2009 07:37	I122909	I 1.0I	I	PASSES BOTH COLUMNS	
I004f0401.d	WAR091217-42	JAOC	129-DEC-2009 07:48	I122909	I 1.0I	I	PASSES BOTH COLUMNS	
I005f0501.d	WAR091217-48	JAOC	129-DEC-2009 07:59	I122909	I 1.0I	I	PASSES BOTH COLUMNS	
I006f0601.d	WAR090930-32	JAOC	129-DEC-2009 08:17	I122909	I 1.0I	I	PATTERN ONLY	
I007f0701.d	WAR091111-21	JAOC	129-DEC-2009 08:28	I122909	I 1.0I	I	PATTERN ONLY	
I008f0801.d	WAR091111-62	JAOC	129-DEC-2009 08:39	I122909	I 1.0I	I	PATTERN ONLY	
I009f0901.d	WAR091106-68	JAOC	129-DEC-2009 08:50	I122909	I 1.0I	I	PATTERN ONLY	
I010f1001.d	WAR091219-DDT	JAOC	129-DEC-2009 09:01	I122909	I 1.0I	I	DDT	
I011f1101.d	WAR091130-99 02	JAOC	129-DEC-2009 09:13	I122909	I 1.0I	I	CLEAN	
I012f1201.d	1202005226	JAOC	129-DEC-2009 09:27	1937093	110-1036	I 1.0I	QC A	UPLOAD BOTH, USE HIGHER
I013f1301.d	1202005227	JAOC	129-DEC-2009 09:38	1937093	110-1036	I 1.0I	QC A	UPLOAD BOTH, USE HIGHER
I014f1401.d	1243457003	JAOC	129-DEC-2009 09:49	1937093	110-1038	I 1.0I	LANL	UPLOAD BOTH, USE HIGHER
I015f1501.d	1243457004	JAOC	129-DEC-2009 10:00	1937093	110-1038	I 1.0I	LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/122909.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
I016f1601.d	1243472001	JAOC	129-DEC-2009 10:11	1937093	110-1057	I 1.0I	LANL	UPLOAD BOTH, USE HIGHER

1017f1701.d	1243472002	JAO	29-DEC-2009 10:22	937093	10-1057	1.0 LANL	UPLOAD BOTH, USE HIGHER
1018f1801.d	1243472003	JAO	29-DEC-2009 10:33	937093	10-1057	1.0 LANL	UPLOAD BOTH, USE HIGHER
1019f1901.d	1243490001	JAO	29-DEC-2009 10:44	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
1020f2001.d	1243490002	JAO	29-DEC-2009 10:55	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
1021f2101.d	1243490003	JAO	29-DEC-2009 11:06	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
1022f2201.d	1243490002	JAO	29-DEC-2009 11:17	122909	1.0	PASSES BOTH COLUMNS	
1023f2301.d	1243490003	JAO	29-DEC-2009 11:28	122909	1.0	CLEAN	
1024f2401.d	1243490004	JAO	29-DEC-2009 11:40	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
1025f2501.d	1243517007	JAO	29-DEC-2009 11:51	937093	10-1073	1.0 LANL	UPLOAD BOTH, USE HIGHER
1026f2601.d	1243517008	JAO	29-DEC-2009 12:02	937093	10-1073	1.0 LANL	UPLOAD BOTH, USE HIGHER
1027f2701.d	1243517009	JAO	29-DEC-2009 12:13	937093	10-1073	1.0 LANL	UPLOAD BOTH, USE HIGHER
1028f2801.d	1243519001	JAO	29-DEC-2009 12:24	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
1029f2901.d	1243519002	JAO	29-DEC-2009 12:35	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
1030f3001.d	1243519003	JAO	29-DEC-2009 12:46	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
1031f3101.d	1243519004	JAO	29-DEC-2009 12:57	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
1032f3201.d	1243519005	JAO	29-DEC-2009 13:08	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
1033f3301.d	1243519006	JAO	29-DEC-2009 13:19	122909	1.0	PASSES BOTH COLUMNS	
1034f3401.d	1243519007	JAO	29-DEC-2009 13:30	122909	1.0	CLEAN	
1035f3501.d	1243547002	JAO	29-DEC-2009 13:42	937093	10-1084	1.0 LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/122909.b

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1036f3601.d	12202005228	JAO	29-DEC-2009 13:53	937093	10-1084	1.0 QC A	UPLOAD BOTH, USE HIGHER
1037f3701.d	12202005229	JAO	29-DEC-2009 14:04	937093	10-1084	1.0 QC A	UPLOAD BOTH, USE HIGHER
1038f3801.d	1243547003	JAO	29-DEC-2009 14:15	937093	10-1084	1.0 LANL	UPLOAD BOTH, USE HIGHER
1039f3901.d	1243547004	JAO	29-DEC-2009 14:26	122909	1.0	PASSES BOTH COLUMNS	
1040f4001.d	1243547005	JAO	29-DEC-2009 14:37	122909	1.0	CLEAN	

Data File: /chem/ecd2a.i/122909.b/036b3601.d
 Report Date: 31-Dec-2009 09:19

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd2a.i/122909.b/036b3601.d
 Lab Smp Id: 1202005228 Client Smp ID: WST54-10-9921MS
 Inj Date : 29-DEC-2009 13:53
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005228|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 36 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1084.sub
 Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	11.09100	% 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		
2.068	2.068	0.000	17126572	132.438	4.9 80.00- 120.00	100.00	

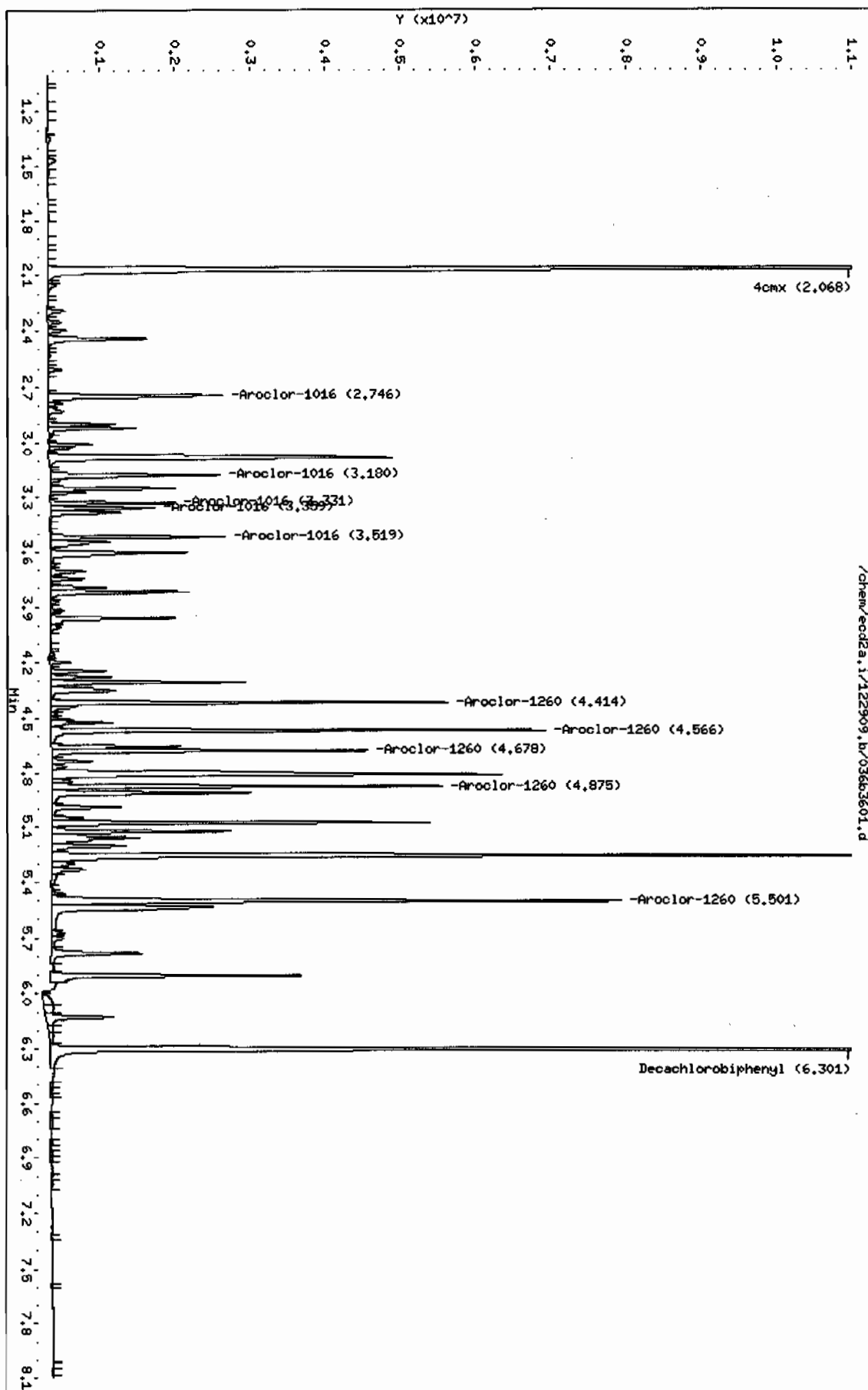
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.301	6.300	0.001	17171358	152.251	5.7 80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2		
2.746	2.745	0.001	2830727	623.808	23.3 80.00- 120.00	100.00	
3.180	3.179	0.001	2217386	615.570	23.0 58.34- 98.34	78.33	
3.331	3.330	0.001	1337551	651.438	24.3 24.56- 64.56	47.25	
3.359	3.359	0.000	1208015	565.261	21.1 26.71- 66.71	42.68	
3.519	3.518	0.001	1875453	653.350	24.4 43.42- 83.42	66.25	
Average of Peak Concentrations =			23.2				

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)		TARGET RANGE	RATIO
--	-----	-----	-----	-----	-----	-----
7 Aroclor-1260			CAS #: 11096-82-5			
4.414	4.414	0.000	4459338	773.261	28.8 80.00- 120.00	100.00
4.566	4.565	0.001	5860124	822.602	30.7 107.94- 147.94	131.41
4.678	4.677	0.001	3877434	804.663	30.0 67.11- 107.11	86.95
4.875	4.874	0.001	4545278	807.080	30.1 80.57- 120.57	101.93
5.501	5.500	0.001	7616995	842.820	31.4 146.62- 186.62	170.81
Average of Peak Concentrations =			30.2			

Data File: /chem/ecod2a.i/122909.b/036b3601.d
Date: 29-DEC-2009 13:53
Client ID: MST54-10-9924HS
Sample Info: 11202005228111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecod2a.i
Operator: JROC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/036f3601.d
Report Date: 31-Dec-2009 09:20

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/036f3601.d
Lab Smp Id: 1202005228 Client Smp ID: WST54-10-9921MS
Inj Date : 29-DEC-2009 13:53
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202005228|1|
Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1084.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	11.09100	% 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	
1.771	1.771	0.000	7821503 125.563	4.7	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.609	5.607	0.002	7461180 137.885	5.1	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2	
2.274	2.273	0.001	1358669 607.175	22.6	80.00- 120.00	100.00(M)
2.598	2.597	0.001	2913922 621.933	23.2	191.82- 231.82	214.47
2.688	2.688	0.000	1173723 617.268	23.0	64.77- 104.77	86.39
2.824	2.823	0.001	604102 618.971	23.1	22.45- 62.45	44.46
2.976	2.974	0.002	793559 544.329	20.3	43.69- 83.69	58.41
Average of Peak Concentrations =				22.4		

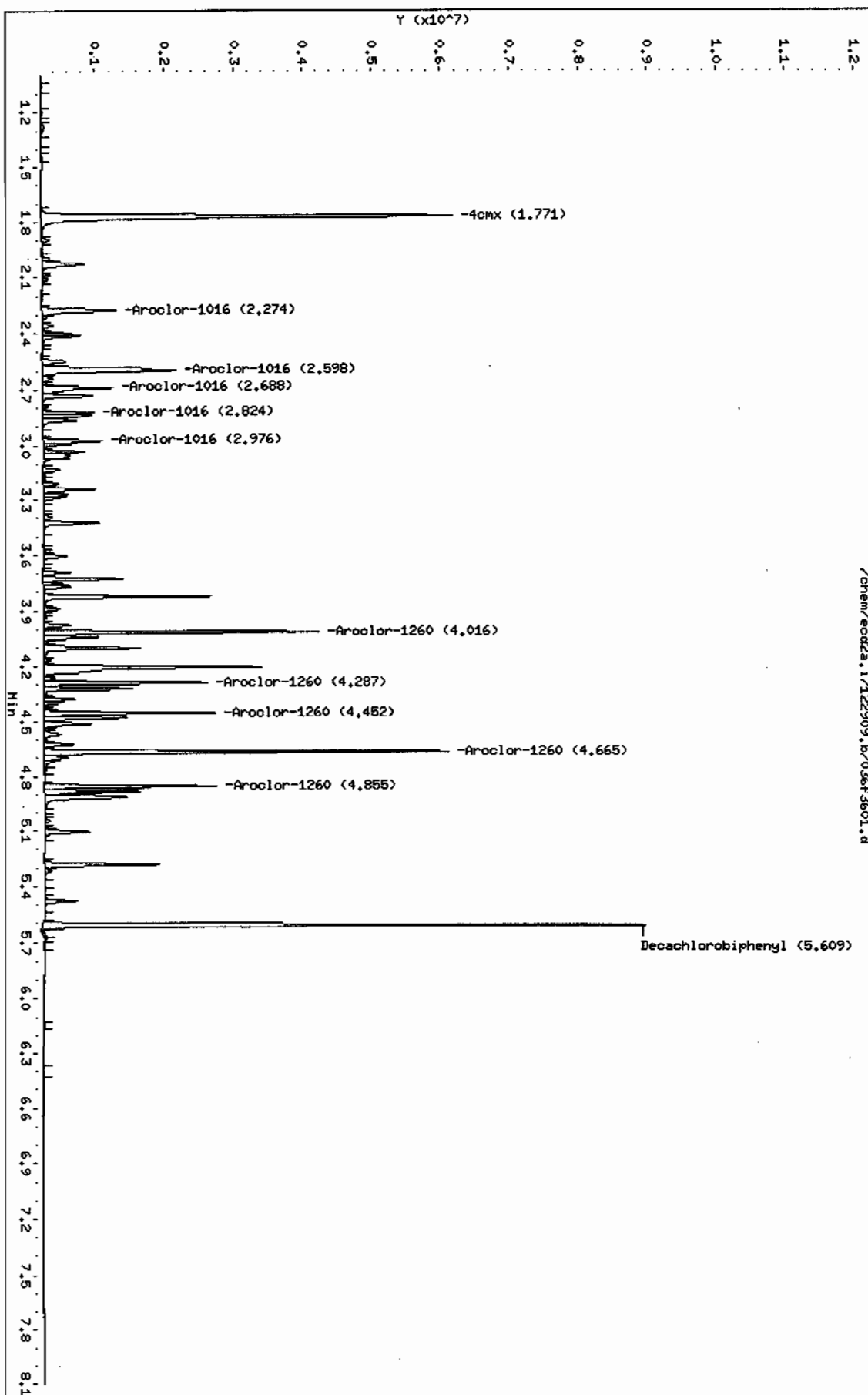
		CONCENTRATIONS					
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5			
4.016	4.014	0.002	3324493	798.179	29.8 80.00- 120.00	100.00	
4.287	4.286	0.001	2060507	795.387	29.7 42.92- 82.92	61.98	
4.452	4.451	0.001	2108687	801.415	29.9 46.15- 86.15	63.43	
4.665	4.664	0.001	5154171	846.668	31.6 132.63- 172.63	155.04	
4.855	4.853	0.002	2180887	741.256	27.7 53.77- 93.77	65.60	
Average of Peak Concentrations =				29.7			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eod2a.i/122909.b/036f3601.d
Date: 29-DEC-2009 13:53
Client ID: MST64-10-992LMS
Sample Info: 1120200522811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JMO
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/037b3701.d
Report Date: 31-Dec-2009 09:20

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/037b3701.d
Lab Smp Id: 1202005229 Client Smp ID: WST54-10-9921MSD
Inj Date : 29-DEC-2009 14:04
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202005229|1|
Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 37 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1084.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	30.17000	Weight of sample extracted (g)
M	11.09100	% 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			
2.069	2.068	0.001	18247734	141.107	5.3	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.301	6.300	0.001	17814926	157.958	5.9	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.746	2.745	0.001	2912309	641.786	23.9	80.00- 120.00	100.00	
3.181	3.179	0.002	2339521	649.476	24.2	58.34- 98.34	80.33	
3.332	3.330	0.002	1388934	676.463	25.2	24.56- 64.56	47.69	
3.360	3.359	0.001	1402698	656.359	24.5	26.71- 66.71	48.16	
3.519	3.518	0.001	1933785	673.672	25.1	43.42- 83.42	66.40	
Average of Peak Concentrations =					24.6			

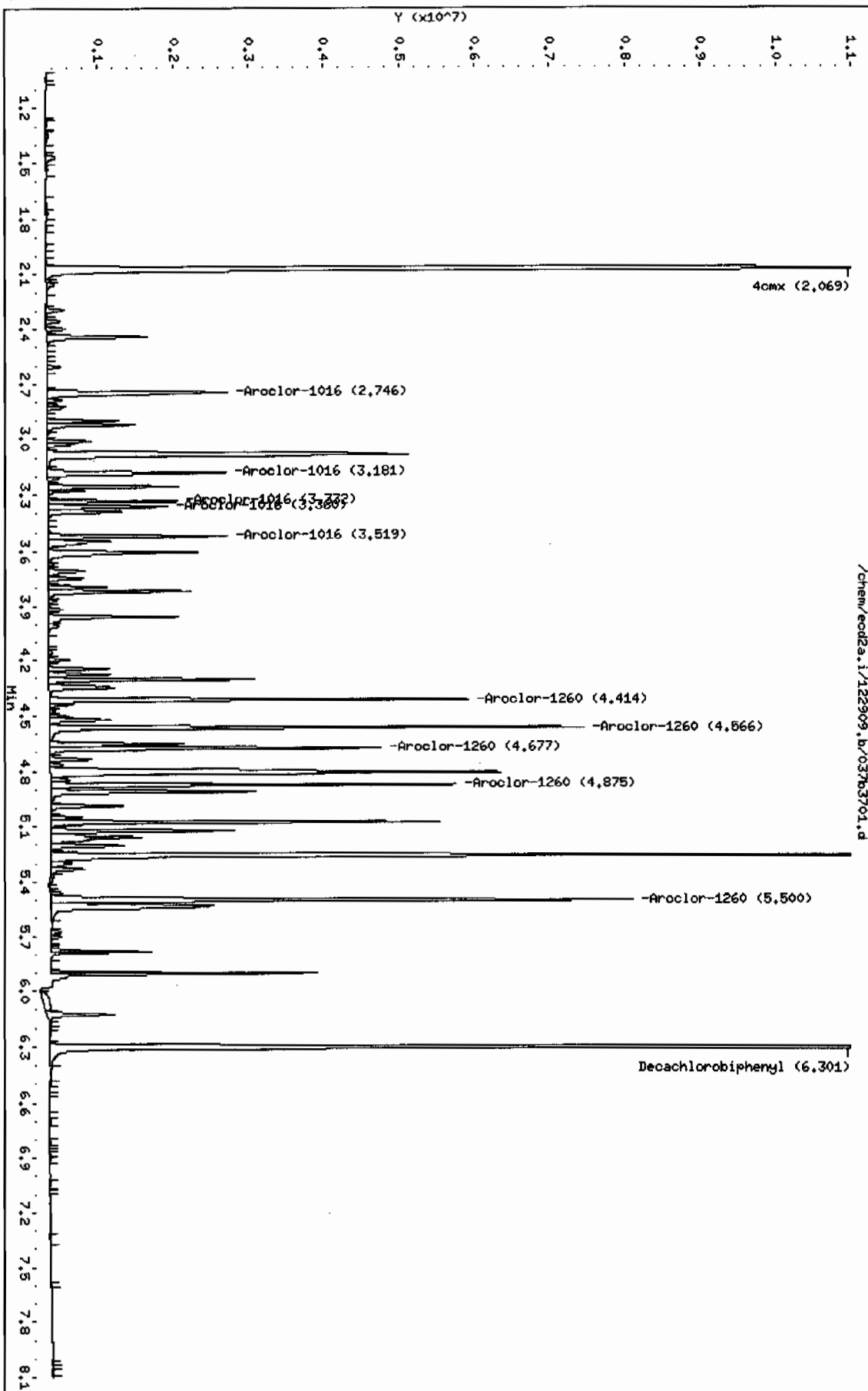
Data File: /chem/ecd2a.i/122909.b/037b3701.d
Report Date: 31-Dec-2009 09:20

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CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5			
4.414	4.414	0.000	4606360	798.755	29.8 80.00- 120.00	100.00
4.566	4.565	0.001	6012028	843.925	31.5 107.94- 147.94	130.52
4.677	4.677	0.000	3959627	821.720	30.6 67.11- 107.11	85.96
4.875	4.874	0.001	4649139	825.522	30.8 80.57- 120.57	100.93
5.500	5.500	0.000	7728487	855.157	31.9 146.62- 186.62	167.78
Average of Peak Concentrations =			30.9			

Data File: /chem/ecod2a.i/122909.b/037b3701.d
Date: 29-DEC-2009 14:04
Client ID: MSTB4-10-9921MSD
Sample Info: 1202006229111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecod2a.i
Operator: JHOC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/037f3701.d
Report Date: 31-Dec-2009 09:20

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd2a.i/122909.b/037f3701.d
Lab Smp Id: 1202005229 Client Smp ID: WST54-10-9921MSD
Inj Date : 29-DEC-2009 14:04
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202005229|1|
Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MSD|1|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 37 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1084.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	30.17000	Weight of sample extracted (g)
M	11.09100	% Moisture

Cpnd Variable Local Compound Variable

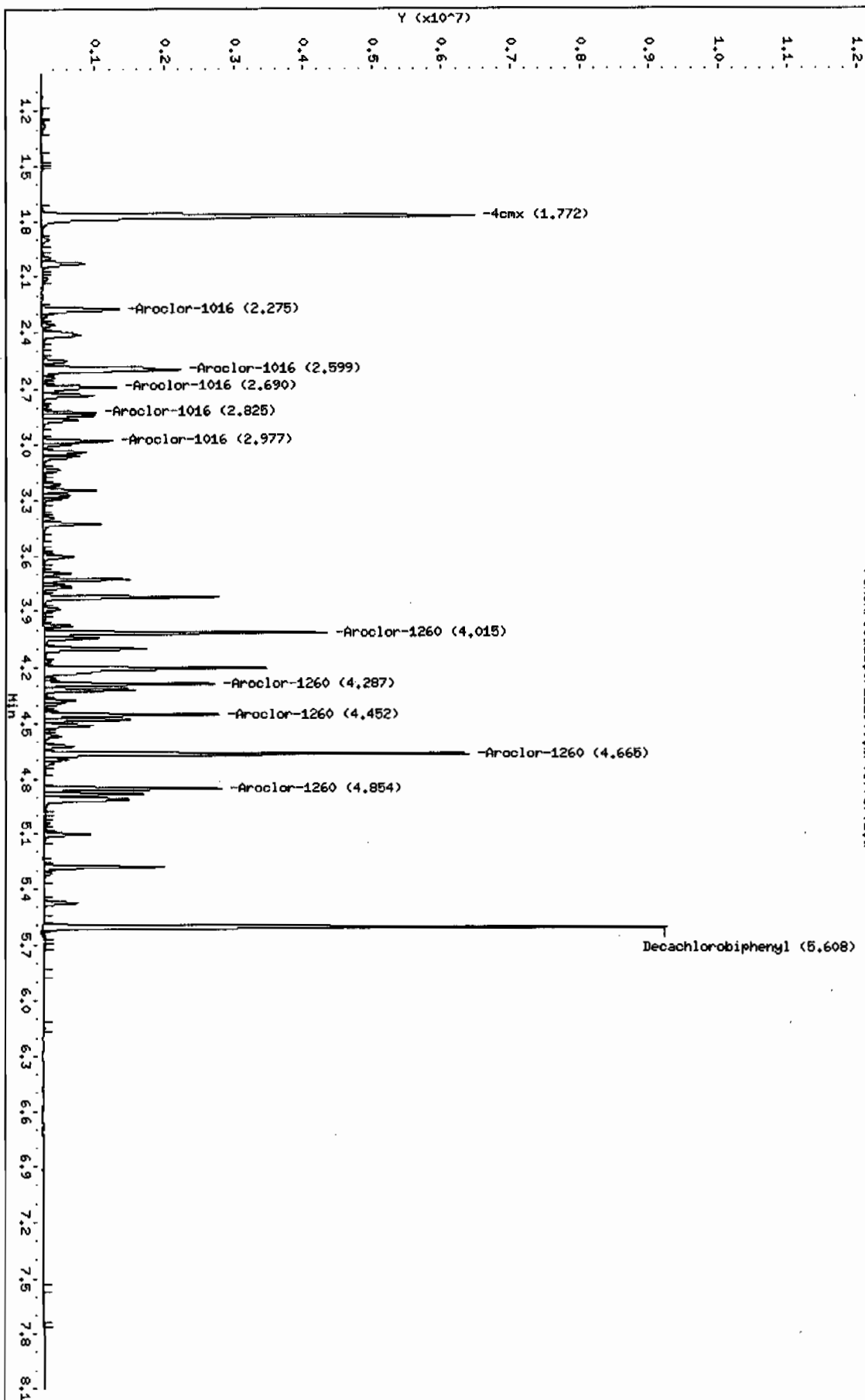
CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
			RESPONSE (ug/L)	(ug/Kg)		
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
1.772	1.771	0.001	8299557	133.237	5.0 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.608	5.607	0.001	7807358	144.283	5.4 80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2			
2.275	2.273	0.002	1410986	630.555	23.5 80.00- 120.00	100.00
2.599	2.597	0.002	3065472	654.279	24.4 191.82- 231.82	217.26
2.690	2.688	0.002	1214242	638.577	23.8 64.77- 104.77	86.06
2.825	2.823	0.002	632311	647.874	24.2 22.45- 62.45	44.81
2.977	2.974	0.003	960167	658.611	24.6 43.69- 83.69	68.05
Average of Peak Concentrations =				24.1		

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5			
4.015	4.014	0.001	3436575	825.089	30.8	80.00-	120.00	100.00
4.287	4.286	0.001	2150260	830.033	30.9	42.92-	82.92	62.57
4.452	4.451	0.001	2183682	829.917	30.9	46.15-	86.15	63.54
4.665	4.664	0.001	5313352	872.816	32.5	132.63-	172.63	154.61
4.854	4.853	0.001	2261311	768.591	28.6	53.77-	93.77	65.80
Average of Peak Concentrations =					30.7			

Data File: /chem/eod2a.i/122909.b/0373701.d
Date: 29-DEC-2009 14:04
Client ID: MST54-10-9921HSD
Sample Info: 1120200522911
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JAC
Column diameter: 0.25

/chem/eod2a.i/122909.b/0373701.d



Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 937092
Analyst: Andrew Schwenin
Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202005226 MB	28-DEC-2009 20:43:58	30	H2SO4/KM2	2	2	9	1	0.03333
1202005227 LCS	28-DEC-2009 20:43:58	30	H2SO4/KM2	2	2	9	1	0.03333
243457003	28-DEC-2009 20:43:58	30.02	H2SO4/KM2	2	2	9	1	0.03331
243457004	28-DEC-2009 20:43:58	30.19	H2SO4/KM2	2	2	9	1	0.03312
243472001	28-DEC-2009 20:43:58	30.02	H2SO4/KM2	2	2	9	1	0.03331
243472002	28-DEC-2009 20:43:58	30.03	H2SO4/KM2	2	2	9	1	0.0333
243472003	28-DEC-2009 20:43:58	30.12	H2SO4/KM2	2	2	9	1	0.0332
243490001	28-DEC-2009 20:43:58	30.08	H2SO4/KM2	2	2	9	1	0.03324
243490002	28-DEC-2009 20:43:58	30.14	H2SO4/KM2	2	2	9	1	0.03318
243490003	28-DEC-2009 20:43:58	30.05	H2SO4/KM2	2	2	9	1	0.03328
243517007	28-DEC-2009 20:43:58	30.14	H2SO4/KM2	2	2	9	1	0.03318
243517008	28-DEC-2009 20:43:58	30.15	H2SO4/KM2	2	2	9	1	0.03317
243517009	28-DEC-2009 20:43:58	30.01	H2SO4/KM2	2	2	9	1	0.03332
243519001	28-DEC-2009 20:43:58	30.17	H2SO4/KM2	2	2	9	1	0.03315
243519002	28-DEC-2009 20:43:58	30.19	H2SO4/KM2	2	2	9	1	0.03312
243519003	28-DEC-2009 20:43:58	30.04	H2SO4/KM2	2	2	9	1	0.03329
243519004	28-DEC-2009 20:43:58	30.01	H2SO4/KM2	2	2	9	1	0.03321
243519005	28-DEC-2009 20:43:58	30.11	H2SO4/KM2	2	2	9	1	0.03329
243547002	28-DEC-2009 20:43:58	30.04	H2SO4/KM2	2	2	9	1	0.03318
1202005228 MS (243547002)	28-DEC-2009 20:43:58	30.14	H2SO4/KM2	2	2	9	1	0.03315
1202005229 MSD (243547002)	28-DEC-2009 20:43:58	30.07	H2SO4/KM2	2	2	9	1	0.03329
243547003	28-DEC-2009 20:43:58	30.04	H2SO4/KM2	2	2	9	1	0.03329

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202005227	PCB Laboratory Control	WRE091210-07	1	mL	Clean up Date: 12/28/09
MS	1202005228	PCB Laboratory Control	WRE091210-07	1	mL	Clean up Initials: AJS
MSD	1202005229	PCB Laboratory Control	WRE091210-07	1	mL	Verified By: AV
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE091130-15	1	mL	Final Solvent: Hexane
REGNT	All	1:1 sulfuric acid	1133264a	5	mL	Clean Up SOP: GL-OA-E-037
REGNT	All	Acetone	1233927	150	mL	
REGNT	All	Hexane	1241300-B2	150	mL	
REGNT	All	5% Potassium Permanganate	B1202457-F	5	mL	
SOURC	All	SODIUM SULFATE	1242582	30	g	