ORGANIC DATA REVIEW CHECKLIST FOR GC/MS (revised 8/14/03; converted 10/14/08)

Site Name: DIM ROCK **Project #:** PROJ # WO# 125F110 WC# 1205016 **ABN** ☒ **VOA** ☐

Package Overview	Item	Comments	✓
	All results present? (All samples reported)	7 LIQ	✓
	Special requests done? (Low level DL, etc)	PEG / ETG (GLYCOLS)	✓
	Work Order Notes document all problems?	OK	✓
Quality Control	Holding times checked? (In limits; or reported)	SX 5/23 RLN 5/24 + 5/30	✓
	IPCs verified? (DFTPP or BFB; breakdown)	NA	NA
	ICAL passes criteria? (must print man. integ.)	PEG 1 → 50 ETG 1 → 100	✓
	Con. Cal. passes criteria? (must print man. integ.)	ok SEQ error > 12 HR TT.	○
	Calibration Status Report included (time/date stamp)?	ok	✓
	Surrogates checked? Pass criteria?	NA	NA
	Matrix spikes checked? Pass criteria?	ok	✓
	Blanks checked? Bk related probs?	ok	✓
	LFB/LCS checked? Probs?	ok - SOME TAILING	✓
	Area checks done? (ISTDs in limits)	NA	NA
Target Data	Final reports accurate? Document all inaccuracies.		✓
	All targets reported?	2 GLYCOLS	✓
	RLs accurate?	ok RL = 2 ug/ml	✓
	Calculation checks:	Sample Vol./DLF? – Calculation ck? – Date/Time Stamp ck?	✓
	Identification verified? (Spectra, RT and qualifiers)	ok	✓
	Integrations checked? (Manual and software)	ok	✓
	Man. integrations highlighted and clearly printed out?	ok	✓

TIC DATA	Item	Comments			✓
	Final reports accurate? Document all inaccuracies.	NOT REQ'D			
	All significant peaks reported? (No peaks missed)				
	Identification checked? (Spectra and Ion Ratios)				
	Calculation checks:	Sample volume?		Dilution factors?	
	TIC reports consistent?				

Data Package Content:

File Component Check	Item	✓	Item	✓	Item	✓
	1. General Info: includes Work Order, sample prep sheets, logbook copies; Work Order Notes		2. Target Data: includes copy of final report, detailed quant reports and chromatograms		3. TIC Data: includes copy of final report, detailed LSC rpt and chromatogram.	
	4. Matrix Spike, LFB/LCS and Blank Data		5. IPCs (DFTPP/BFB)		6. Calibration Data (ICAL and Continuing Cal)	

GENERAL COMMENTS: – MAY WANT TO ADD A(N) ~~IS/SS~~ (OR TWO) IS OR SS (IE ACONAC) FOR REFERENCE (RF + RT). ONE EARLY + ONE LATE (RT), SIMILAR TO PEST/PCB TMX/~~DMS~~ – SEE TROUBLESHOOTING NOTES ON BS HARDCOPY RPT. DCB

REVIEWER: NGANNER Area: GC X GC/MS ___ Other ___ DATE: 6/6/12

TL review B. Schuppener 6/12/12

CORRECTIVE ACTION BY ANALYST:

Item Corrected: _____

Corrected by: _____ Date: _____

Item Corrected: _____

Corrected by: _____ Date: _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

DRAFT

Final Analytical Report

Site Name ---------- Dimock Residential Groundwater Site

Contact ---------- Cynthia Caporale (3EA21)

Project No. ---------- 12SF110

Work Order(s) ---------- 1205010

Analyses included in this report:

ABN Glycols

Work Order Memo

Samples were first analyzed 5/24/12. Due to a sequence error, the ending CCs did not run right after the samples. The ending CCs were analyzed the next morning and the CC at 2 ug/ml did not appear to pass (no peaks). Draft data was reported as non-detects at 5 mg/L to R3 since peaks in the ending 5 ug/ml standard clearly were detectable (failed slightly low). After further review of the 2 ug/ml CC, the peaks had shifted due to a large phthalate peak that was not present in prior analysis of this same vial. Concentrations in the 2 ug/ml standard pass but the RTs are significantly shifted. The samples were analyzed again on 5/29/12 on a different instrument with a new column. Chromatography degraded significantly after the analysis of the BS for unknown reasons. The data could not be used. The original data are reported even though the ending CCs were analyzed the next morning.

Analyst 6/4/12 Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER **Printed: 5/31/2012 3:47:20PM**

1205010

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support
Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren
Project Number: 12SF110

Report To:
R6 Regional Support
Cynthia Caporale (3EA21)
10625 Fallstone Road
Houston, TX 77099
Phone: (281) 983-2100
Fax: (281) 983-2248

GPRA Code:
Cerclis Number:
Site Spill ID:

Date Due:	06/22/12 15:00 (21 day TAT)		
Received By:	Isaiah Harris	Date Received:	05/24/12 09:00
Logged In By:	Isaiah Harris	Date Logged In:	05/24/12 09:23

Prelim results ASAP. Final hardcopy TAT = 21 days

Samples Received at:	6°C		
Package Custody Seal	Yes	Sample Tags	Yes
On Ice	Yes	Chain of Custody	Yes
Intact	Yes	Preserved	No
Sample Custody Seals	Yes		

Analysis	Due	TAT	Expires	Comments
1205010-01 FB23 [Liquid] Sampled 05/23/12 13:25 Central				
ABN Glycols	06/19/12 12:00	18	05/30/12 13:25	
1205010-02 HW63 [Liquid] Sampled 05/23/12 13:09 Central				
ABN Glycols	06/19/12 12:00	18	05/30/12 13:09	
1205010-03 HW63z [Liquid] Sampled 05/23/12 13:10 Central				
ABN Glycols	06/19/12 12:00	18	05/30/12 13:10	
1205010-04 FB22 [Liquid] Sampled 05/22/12 11:58 Central				
ABN Glycols	06/19/12 12:00	18	05/29/12 11:58	
1205010-05 HW62 [Liquid] Sampled 05/22/12 15:59 Central				**Extra volume for QC**
ABN Glycols	06/19/12 12:00	18	05/29/12 15:59	
1205010-06 HW64 [Liquid] Sampled 05/22/12 11:10 Central				
ABN Glycols	06/19/12 12:00	18	05/29/12 11:10	
1205010-07 HW64-P [Liquid] Sampled 05/22/12 11:40 Central				
ABN Glycols	06/19/12 12:00	18	05/29/12 11:40	

Reviewed By Date

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Rd., Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

SAMPLE PREPARATION BENCH SHEET

Dimock Residential Groundwater Site

Batch#: B2E2402

Matrix: Liquid

Project#: 12SF110
Analysis: ABN Glycols
Preparation: ABN Aq Dir Inj
SOP Ref: SOP 712

Extraction Date: 5/24/2012
Completion Date: 5/24/12

☒ Within 7 day limit
☐ No limit
☐ Exceeded by 0
*(explain in comments)

(No Surrogate) **Concentration Method: None** **Clean Up Method: None**

Tag#	Lab Number & Container	Sampled	Days Held	Cl (mg/L)	SX pH	Initial (ml)	Final (ml)	Source ID	Spike ID	µL Spike	µL Surr	Ext pH	Extraction Comments
23484	1205010-01 A	05/23/12	1			1	1						
23431	1205010-02 A	05/23/12	1			1	1						
23458	1205010-03 A	05/23/12	1			1	1						
23232	1205010-04 A	05/22/12	2			1	1						
23351	1205010-05 A	05/22/12	2			1	1						
23187	1205010-06 A	05/22/12	2			1	1						
23204	1205010-07 A	05/22/12	2			1	1						
	B2E2402-BLK1	05/24/12	0			1	1						milliQ water
	B2E2402-BS1	05/24/12	0			1	1		2052302	50			milliQ water
23205	B2E2402-MS1	05/22/12	2			1	1	1205010-05	2052302	50			
23333	B2E2402-MSD1	05/22/12	2			1	1	1205010-05	2052302	50			

REAGENTS:
200 ug/ml Glycols Std# 2052302 200 Expires: 05/23/13

N/A
Extraction Solvent Lot No.

N/A
Final Solvent Lot No.

Prepared By 5/24/12
Date

ISTD ID#:

Reviewed By Date

Printed: 5/31/2012 3:44:31PM

DIM0096032
DIM0096011

	Sample	Vial	Inj Vol	Acquis Method	Quant Method	ANA
[illegible]	0.5 ug/ml Glycols 2052311	1	0.5	Glycol		DG
[illegible] 1479	no data					
	changed column					
[illegible]	1.0 ug/ml Glycols 2052310	2	0.5	Glycol	Glycol 5052412	
1481	↓ ↓ ↓	2	0.5			
1482	1 ug/ml Glycols 2052310	2				
1483	1 2052310					
1484	1 2052310					
1485	2 2052309	3				
1486	5 2052308	4				
1487	10 2052307	5				
1488	25 2052306	6				
1489	50 2052305	7				
1490	100 2052304	8				
1491	150 2052303	9				
1492	200 2052302	10				
1493	25 ug/ml 2032806	11				
10BNA 1494	DG 2B2E2402 - ~~BLK1~~ BS1	12				
1495	- MS1	13				
1496	- MSD1	14				
1497	- BLK1	15				
1498	1205010 - ~~BLK1~~ DG	~~15~~ 16				
1499	1205010 - 02 DG	~~13~~ 16				
1500	- DG ~~02~~ 03	~~18~~ 17				
1501	DG ~~03~~ 04	18				
1502	DG ~~04~~ 05	~~20~~ 19				
1503	DG ~~05~~ 06	20				
1504	DG ~~06~~ 07	~~22~~ 21				
~~1505~~	NO DATA ~~07 08~~	~~23~~				
10STD 1506	* 25 ug/ml Glycols 2032306	6				
1507	2 ↓ ↓ 2032309	3				
1508	5 ↓ ↓	4				

* ANALYZED 5/25/12 due to sequence error

DIM0096011

DIM0096033

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Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-01 **Station ID: FB23**

Batch: B2E2402
Sample Type: Liquid

Date Collected: 05/23/12
Sample Vol: 1ml

Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

x1
-MY-

DRAFT

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1498.D
Acq On : 24 May 2012 8:05 pm
Operator : DG
Sample : 1205010-01 Inst : Betty
Misc : DIMOCK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 12:32:48 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

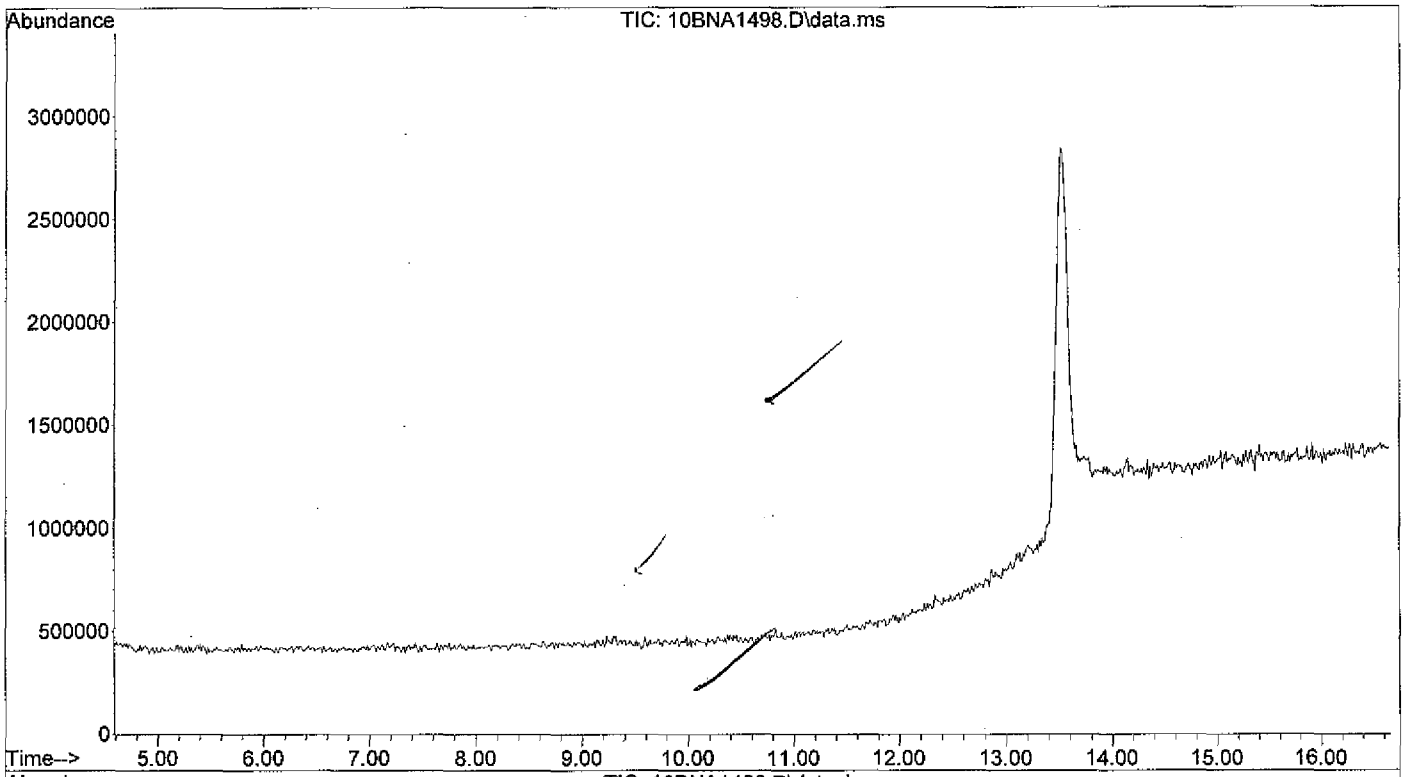
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	0.000		0	N.D.	d	
2) Ethylene Glycol	9.133	31	11389	N.D		

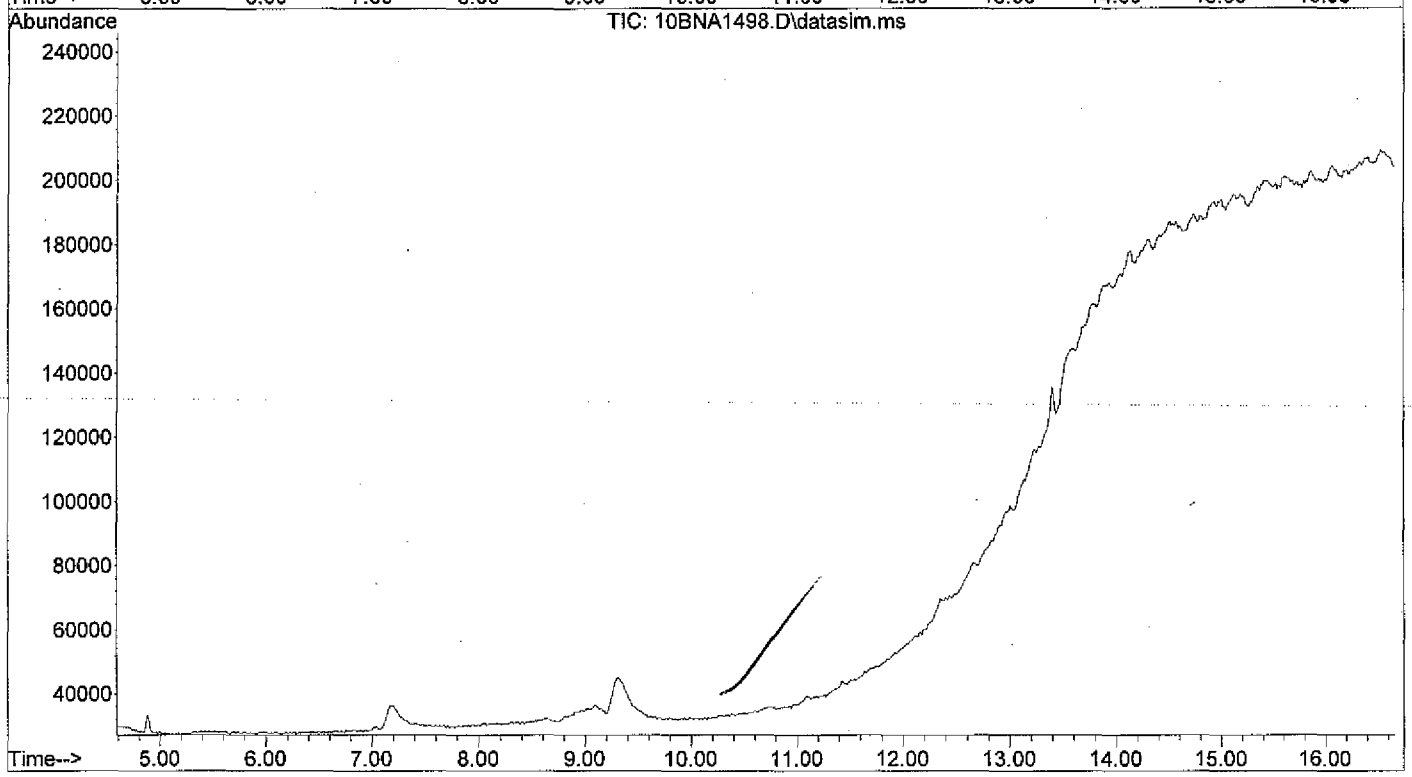
(#) = qualifier out of range (m) = manual integration (+) = signals summed

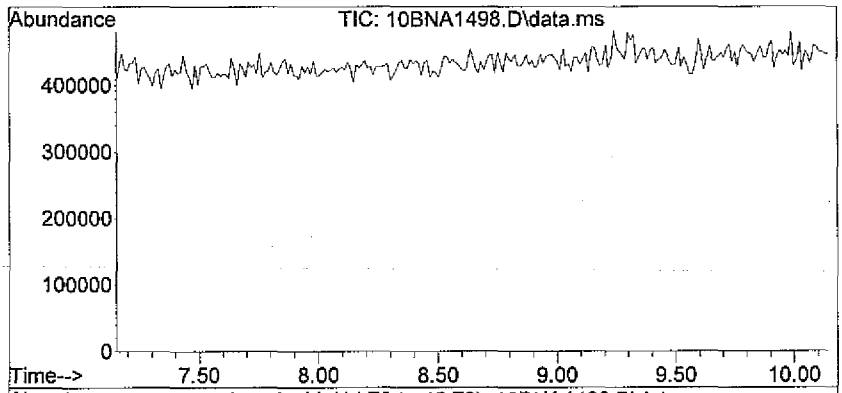
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1498.D
Acq On : 24 May 2012 8:05 pm
Operator : DG
Sample : 1205010-01 Inst : Betty
Misc : DIMOCK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 12:32:48 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration





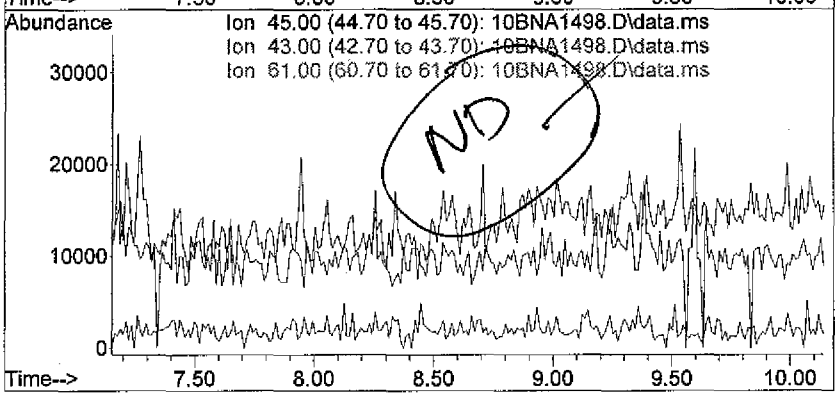


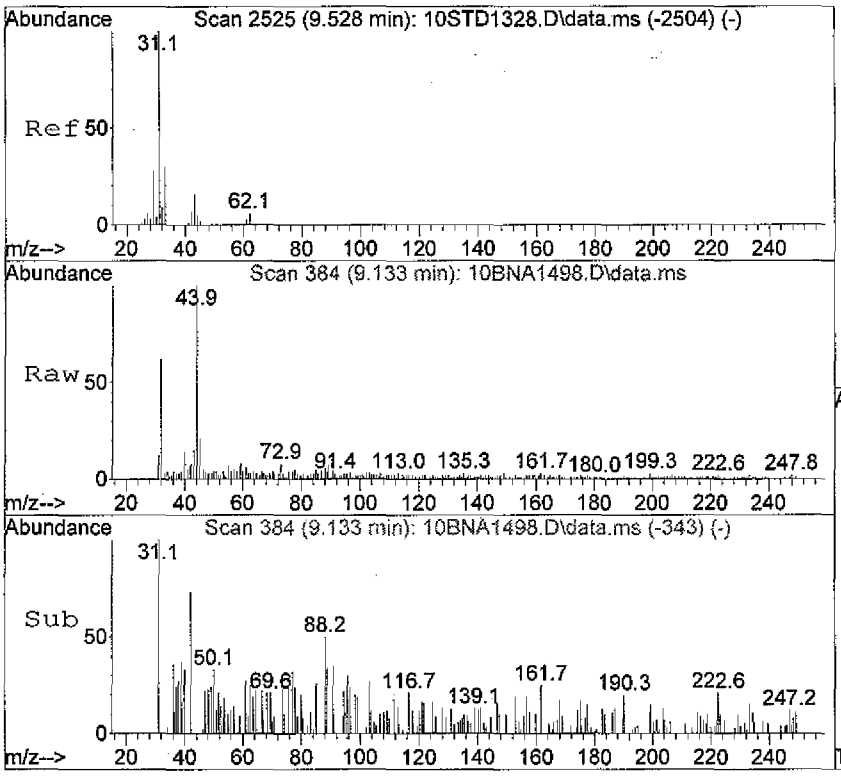
#1
Propylene Glycol
Concen: N.D.
Expected RT: 8.65 min

Lab File: 10BNA1498.D
Acq: 24 May 2012 8:05 pm

Tgt Ion: 45

Sig	Exp Ratio
45	100
43	32.6
61	7.7

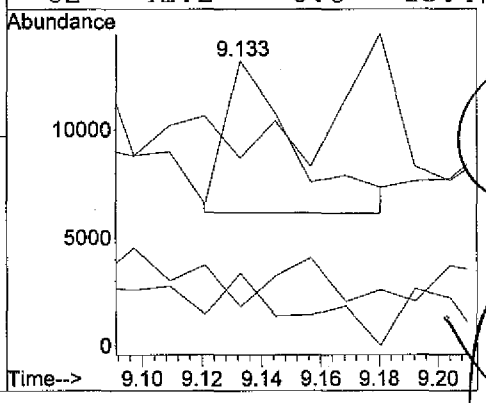




#2
Ethylene Glycol
Concen: Below Cal
RT: 9.133 min Scan# 384
Delta R.T. -0.012 min
Lab File: 10BNA1498.D
Acq: 24 May 2012 8:05 pm

Tgt Ion: 31 Resp: 11389

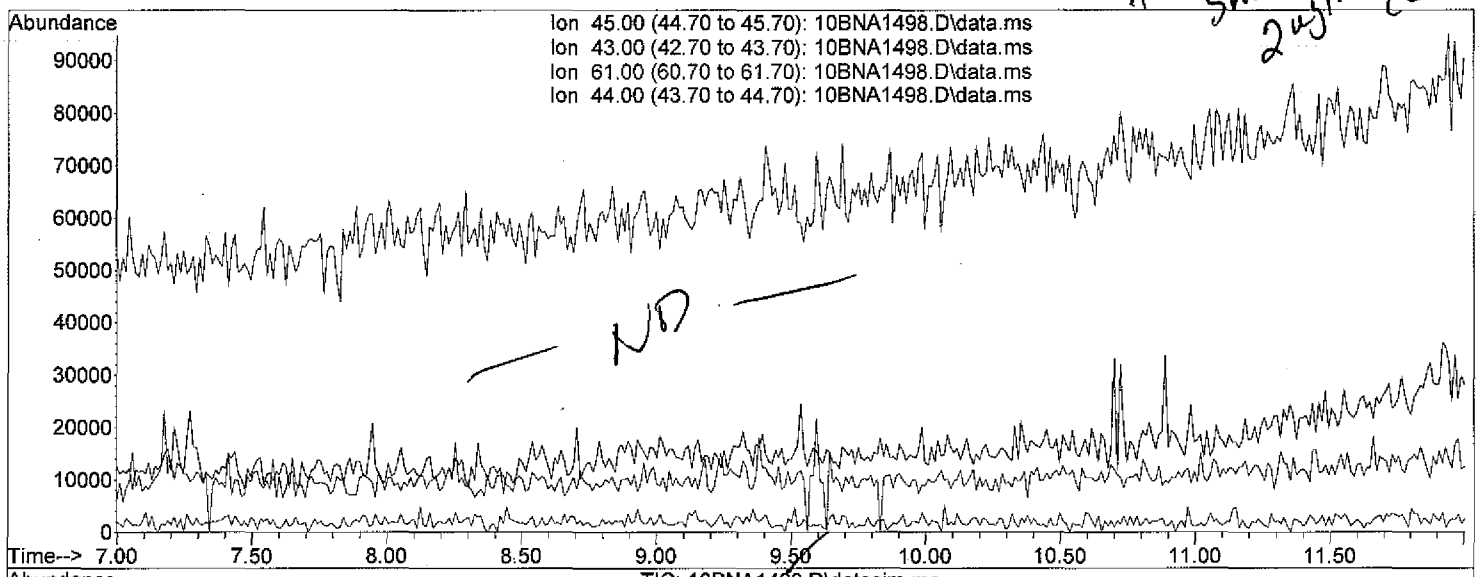
Ion	Ratio	Lower	Upper
31	100		
33	0.0	24.1	42.3#
43	0.0	18.4	36.6#
62	42.2	0.0	15.4#

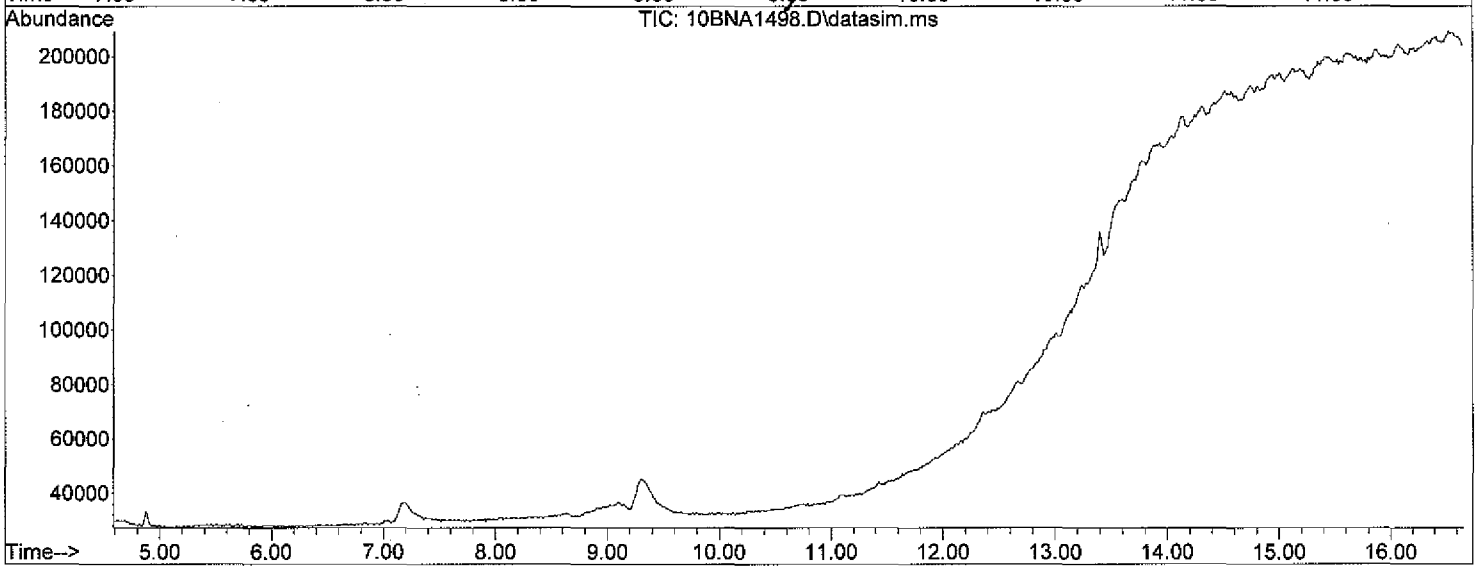


NC

File :D:\1\DATA\12_0524B\10BNA1498.D
Operator : DG
Acquired : 24 May 2012 8:05 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 1205010-01
Misc Info : DIMOCK
Vial Number: 16

PG - EICP
Added due to
Shift in
2ug/ml end
CC.





Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-02 **Station ID: HW63**

Batch: B2E2402
Sample Type: Liquid

Date Collected: 05/23/12
Sample Vol: 1ml

Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

DRAFT

X1
- M2

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1499.D
Acq On : 24 May 2012 8:23 pm
Operator : DG
Sample : 1205010-02 Inst : Betty
Misc : DIMOCK
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 31 12:33:45 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene Glycol	8.670	45	2709	N.D.	
2) Ethylene Glycol	9.370	31	102350m	0.239 ug/ml	NC | <RL

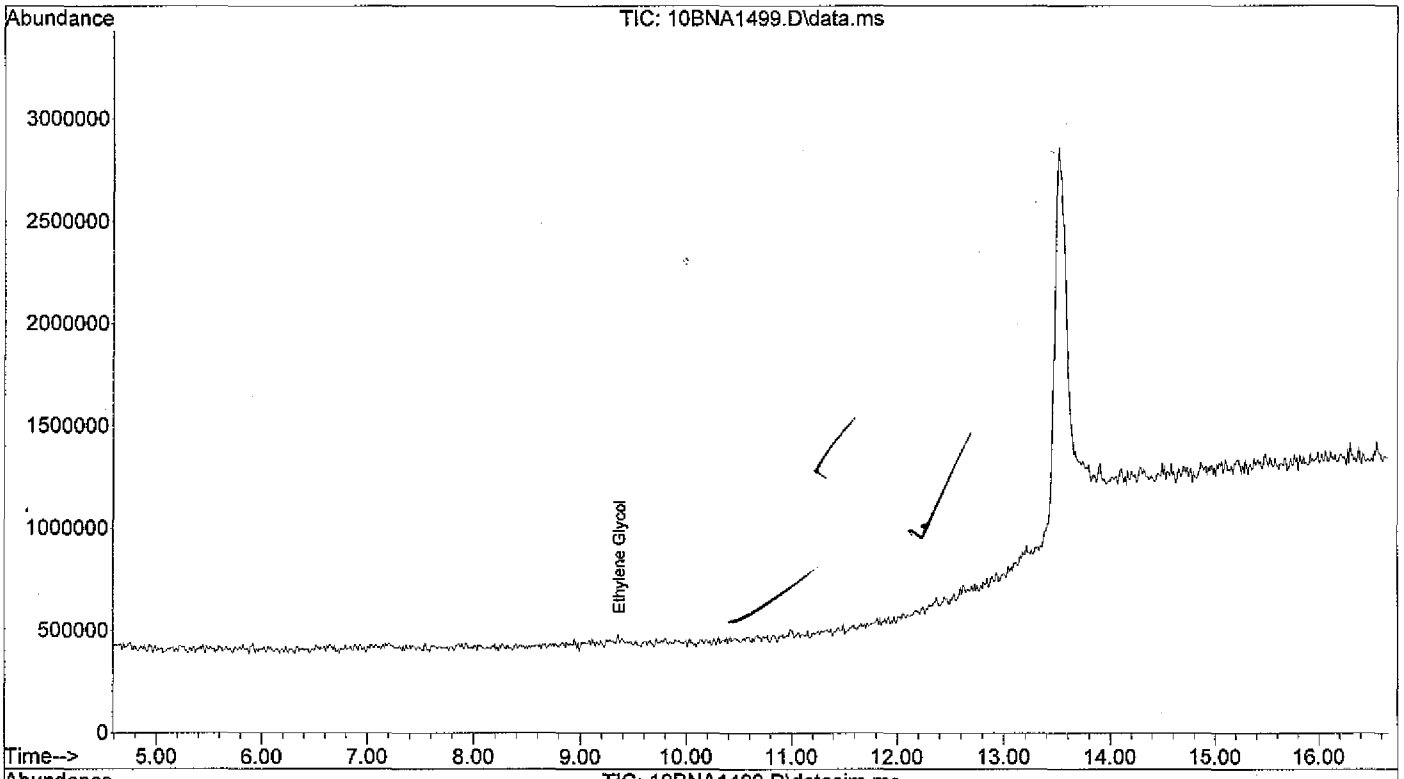
(#) = qualifier out of range (m) = manual integration (+) = signals summed

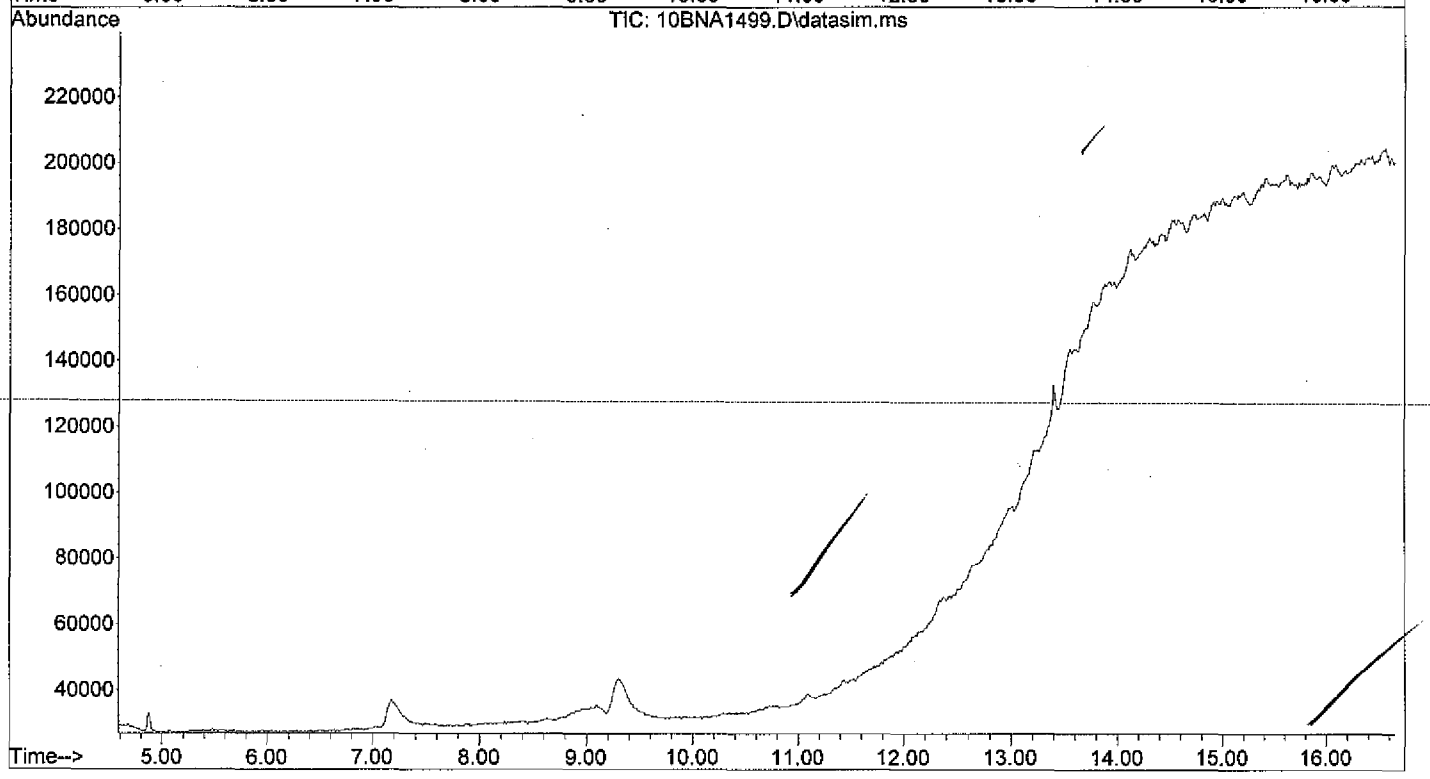
<RL

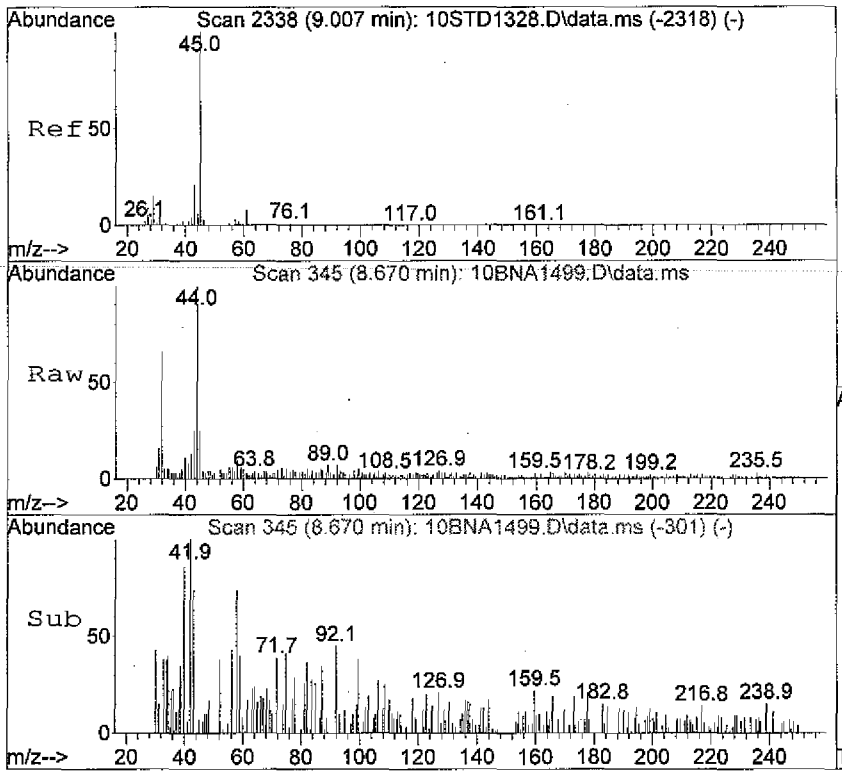
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1499.D
Acq On : 24 May 2012 8:23 pm
Operator : DG
Sample : 1205010-02 Inst : Betty
Misc : DIMOCK
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 31 12:33:45 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



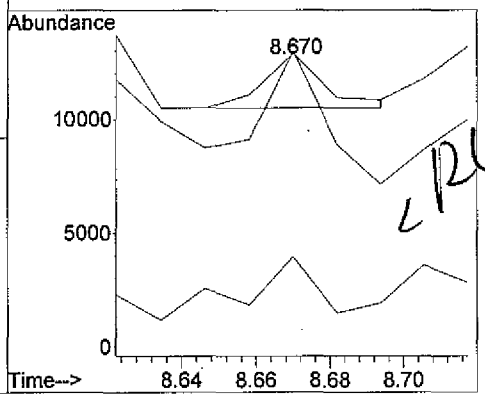


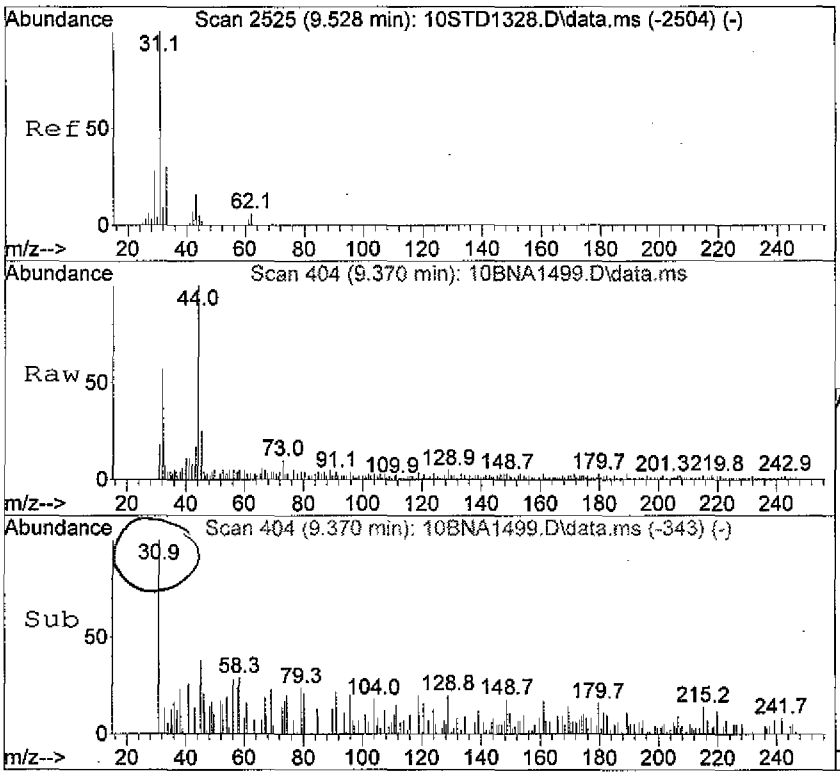


#1
Propylene Glycol
Concen: Below Cal
RT: 8.670 ~~min~~ Scan# 345
Delta R.T. 0.024 min
Lab File: 10BNA1499.D
Acq: 24 May 2012 8:23 pm

Tgt Ion: 45 Resp: 2709

Ion	Ratio	Lower	Upper
45	100		
43	227.2	24.0	41.2#
61	77.3	0.0	16.3#

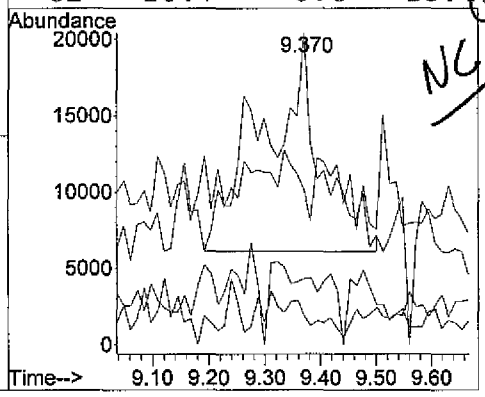




#2
Ethylene Glycol
Concen: 0.239 ug/ml m
RT: 9.370 min Scan# 404
Delta R.T. 0.225 min
Lab File: 10BNA1499.D
Acq: 24 May 2012 8:23 pm

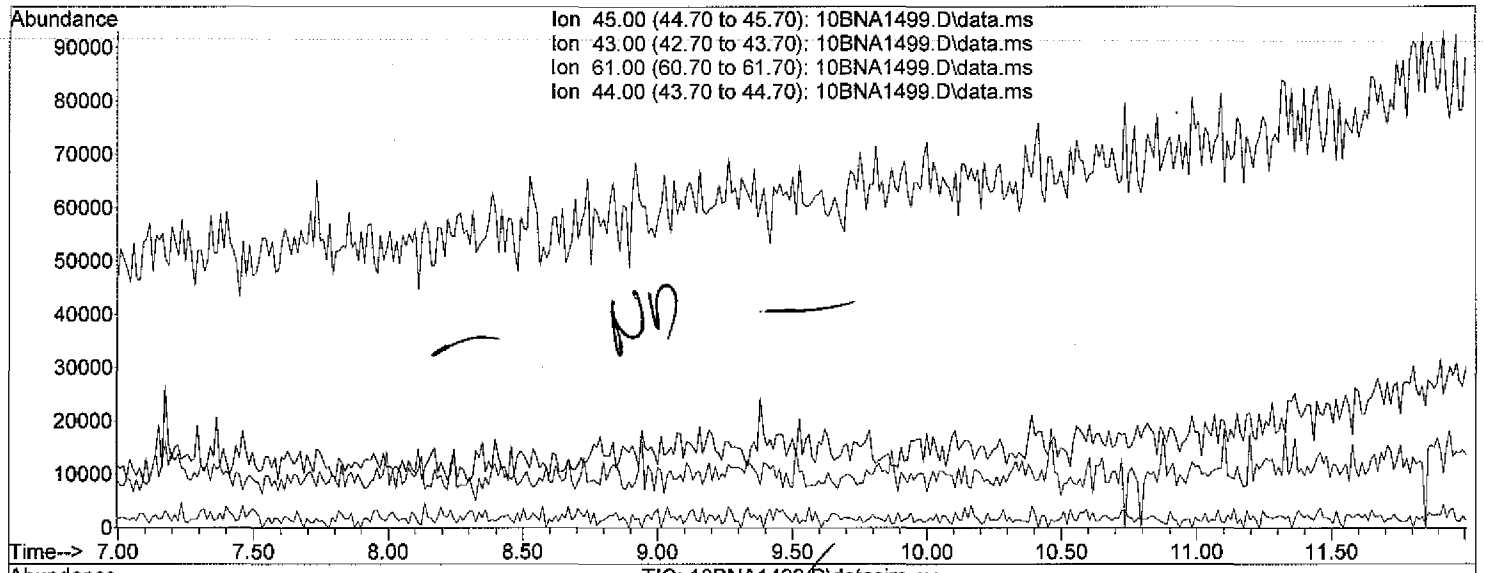
Tgt Ion: 31 Resp: 102350

Ion	Ratio	Lower	Upper
31	100		
33	42.0	24.1	42.3
43	98.5	18.4	36.6#
62	18.7	0.0	15.4#

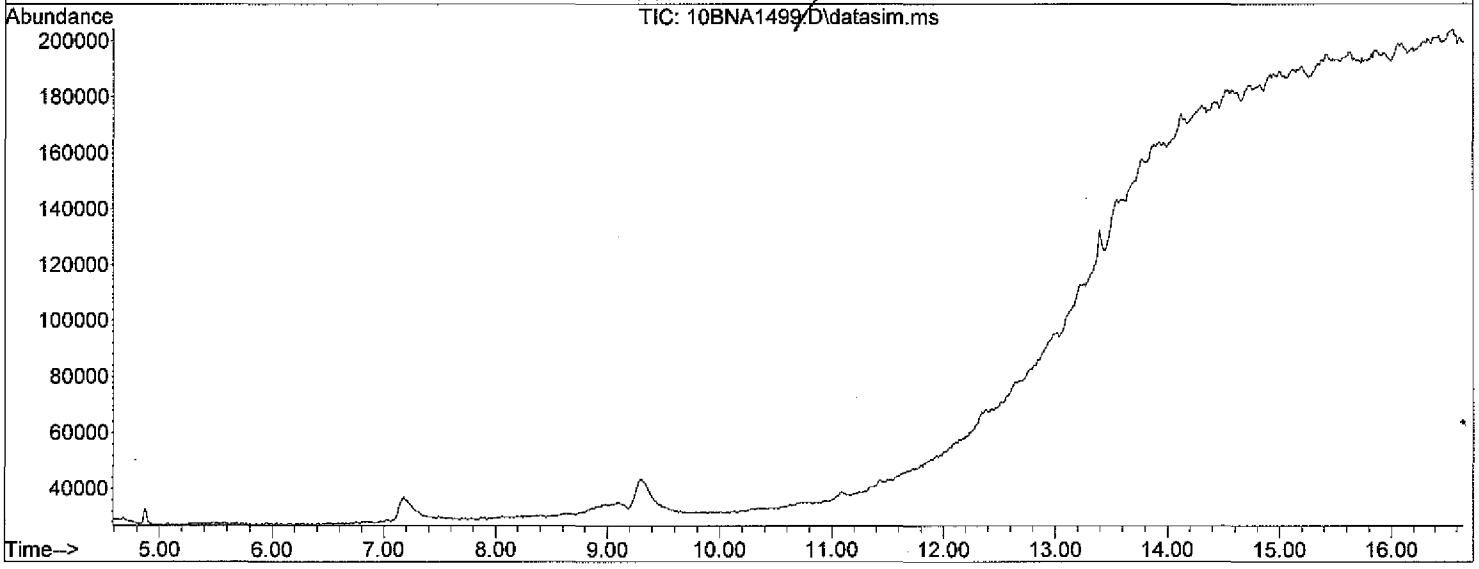


File :D:\1\DATA\12_0524B\10BNA1499.D
Operator : DG
Acquired : 24 May 2012 8:23 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 1205010-03
Misc Info : DIMOCK
Vial Number: 17

PG EICP



NN



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Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

ABN Glycols

Lab ID: 1205010-03 **Station ID: HW63z**

Batch: B2E2402 Date Collected: 05/23/12

Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

DRAFT

-MS-

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1500.D
Acq On : 24 May 2012 8:41 pm
Operator : DG
Sample : 1205010-03 Inst : Betty
Misc : DIMOCK
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 31 12:34:18 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.646	45	9248	N.D.		
2) Ethylene Glycol	9.299	31	89624m	0.209	ug/ml	<RL/NC

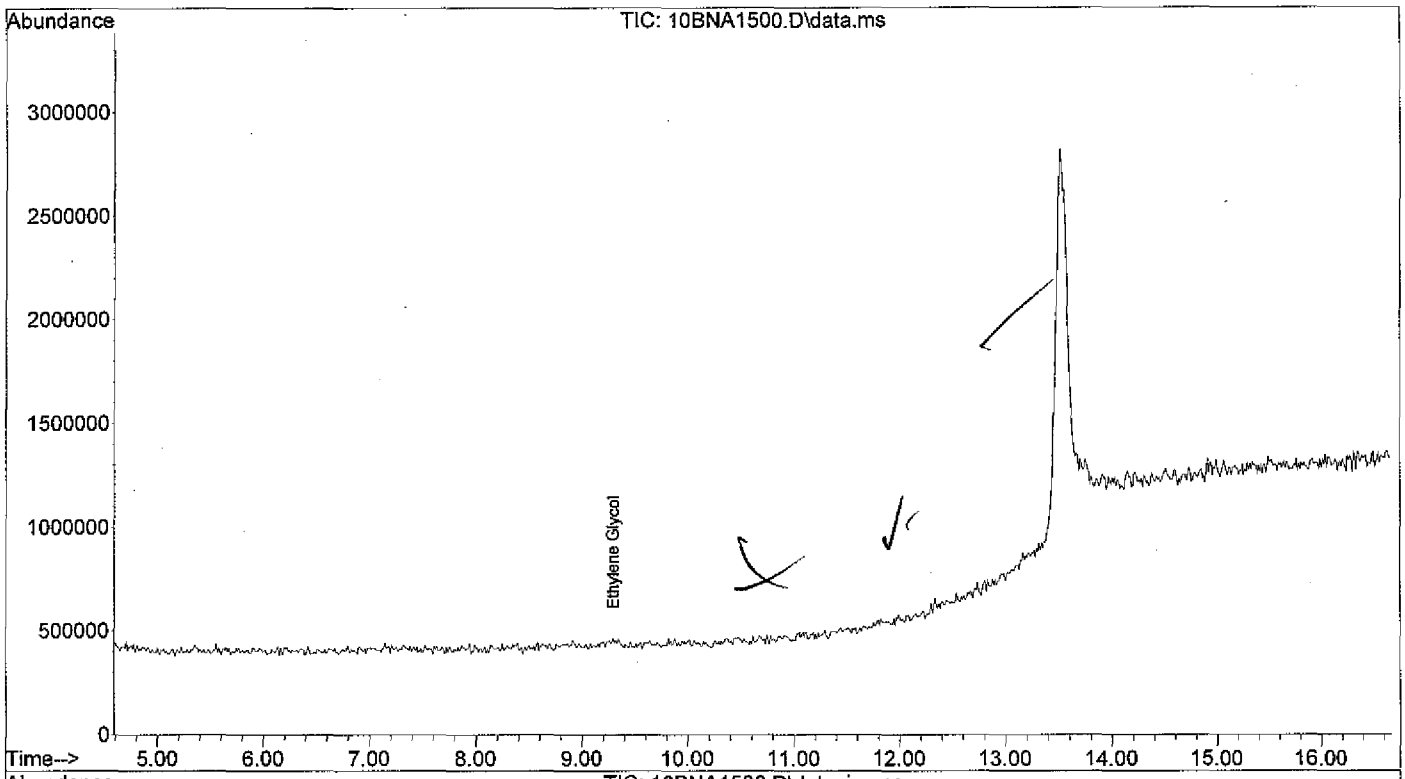
(#) = qualifier out of range (m) = manual integration (+) = signals summed

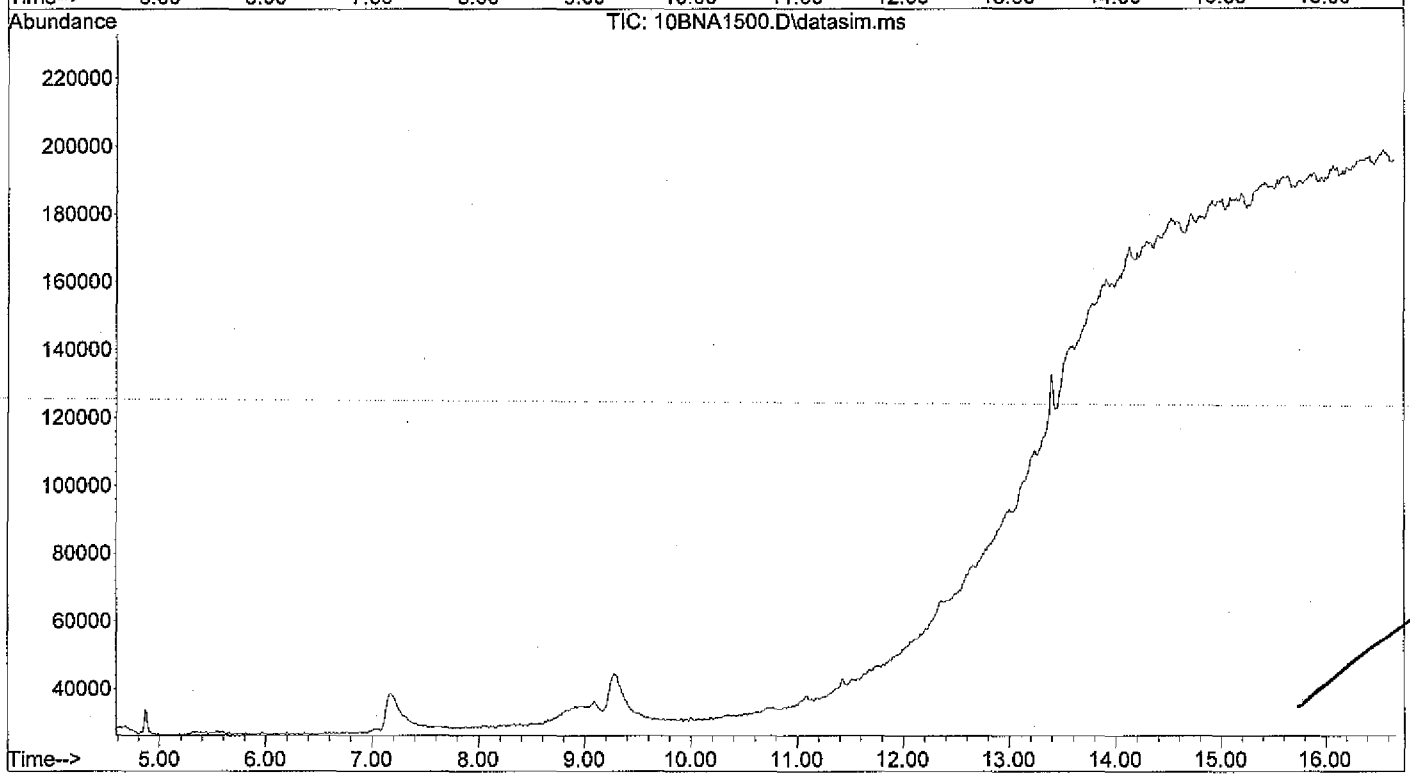
MY

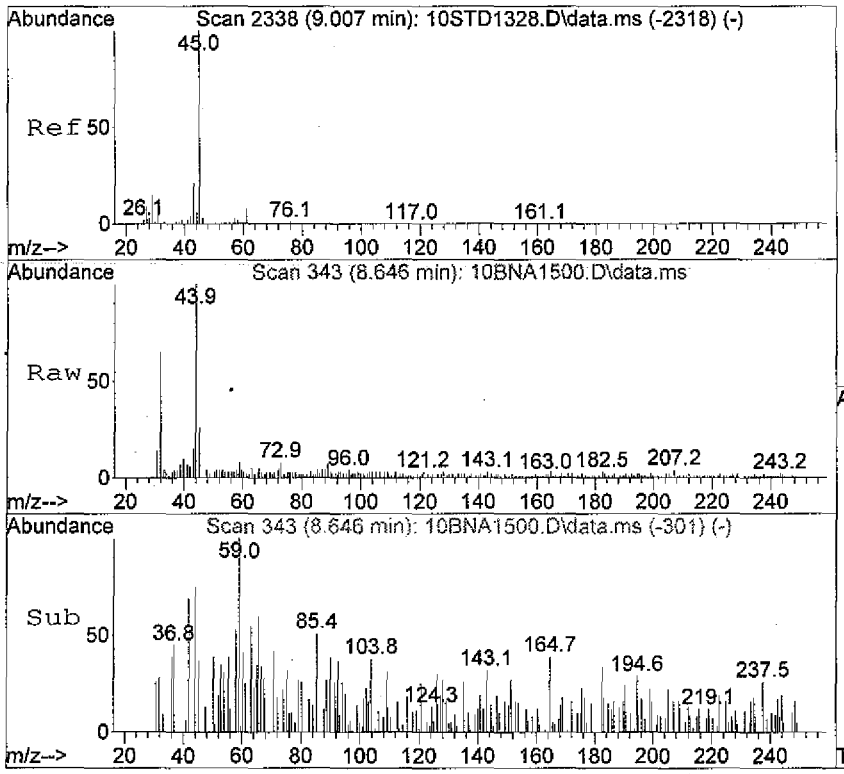
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1500.D
Acq On : 24 May 2012 8:41 pm
Operator : DG
Sample : 1205010-03 Inst : Betty
Misc : DIMOCK
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 31 12:34:18 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



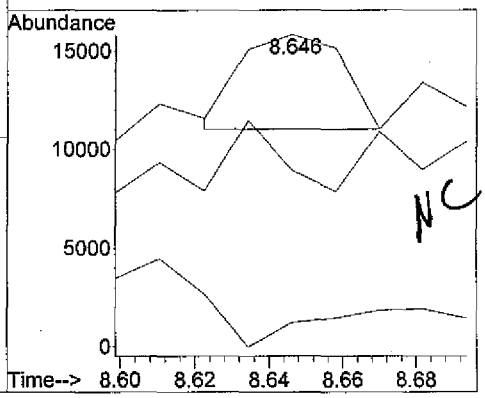




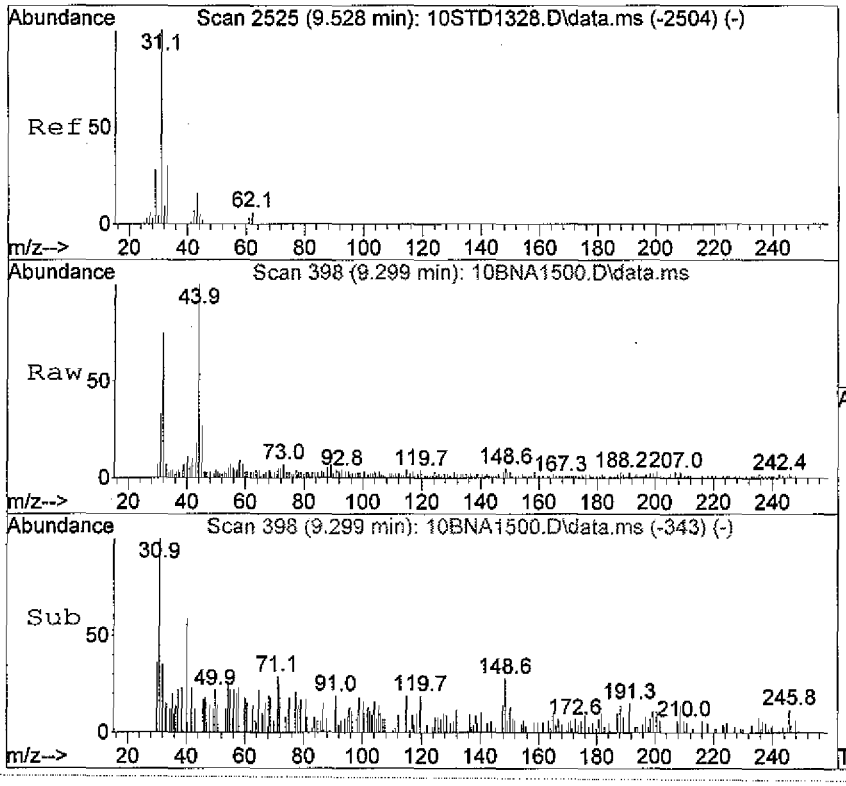
#1
Propylene Glycol
Concen: Below Cal
RT: 8.646 min Scan# 343
Delta R.T. 0.000 min
Lab File: 10BNA1500.D
Acq: 24 May 2012 8:41 pm

Tgt Ion: 45 Resp: 9248

Ion	Ratio	Lower	Upper
45	100		
43	0.0	24.0	41.2#
61	0.0	0.0	16.3



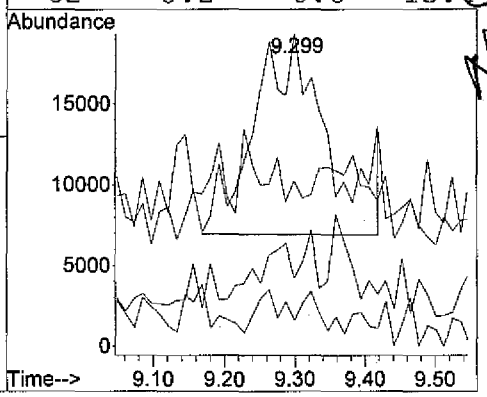
NC



#2
Ethylene Glycol
Concen: 0.209 ug/ml m
RT: 9.299 min Scan# 398
Delta R.T. 0.154 min
Lab File: 10BNA1500.D
Acq: 24 May 2012 8:41 pm

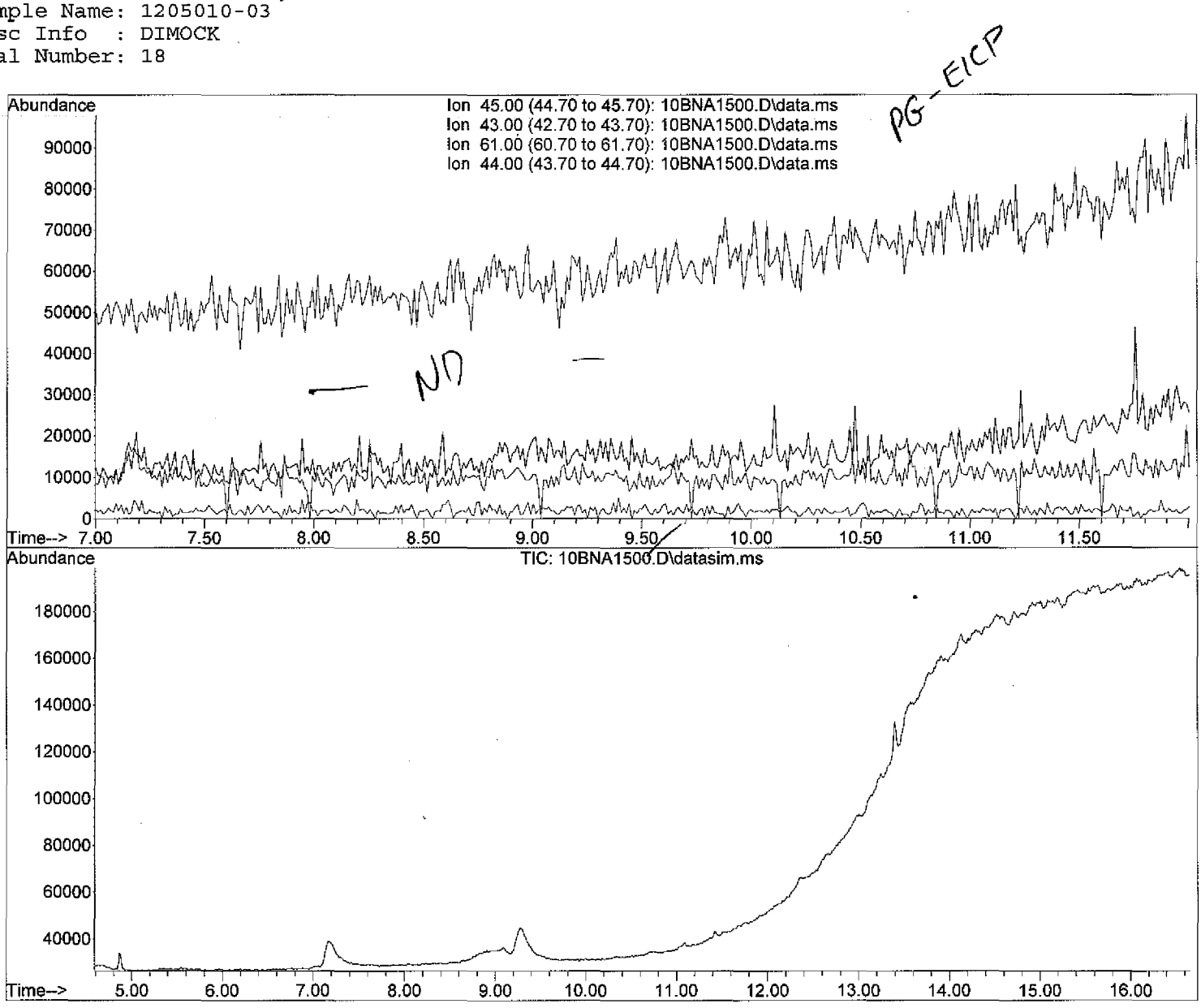
Tgt Ion: 31 Resp: 89624

Ion	Ratio	Lower	Upper
31	100		
33	21.7	24.1	42.3#
43	52.9	18.4	36.6#
62	8.2	0.0	15.4



NC

File :D:\1\DATA\12_0524B\10BNA1500.D
Operator : DG
Acquired : 24 May 2012 8:41 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 1205010-03
Misc Info : DIMOCK
Vial Number: 18



Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

ABN Glycols

Lab ID: 1205010-04 **Station ID: FB22**

Batch: B2E2402
Sample Type: Liquid

Date Collected: 05/22/12
Sample Vol: 1ml

Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

X1

-MS-

DRAFT

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1501.D
Acq On : 24 May 2012 8:59 pm
Operator : DG
Sample : 1205010-04 Inst : Betty
Misc : DIMOCK
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 12:35:12 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

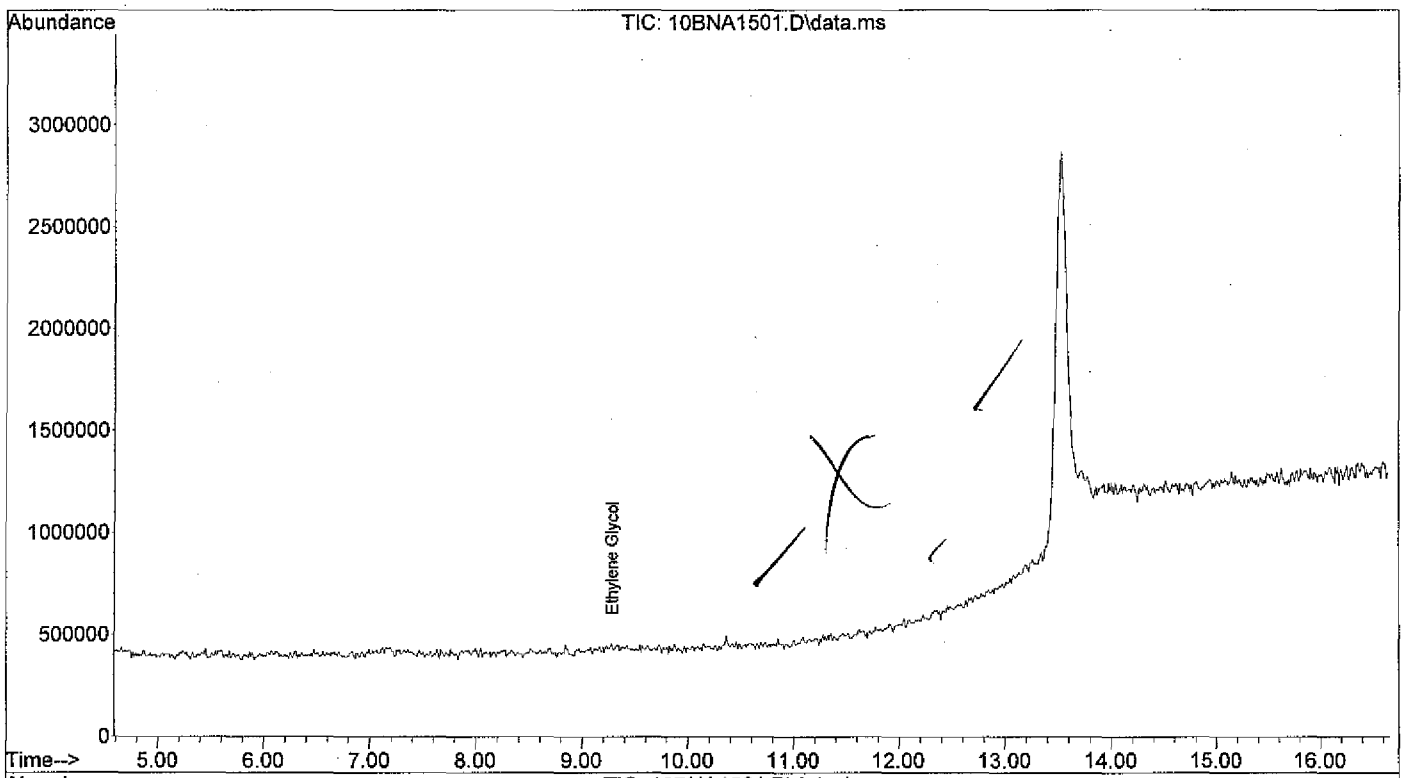
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.635	45	14043	N.D.		
2) Ethylene Glycol	9.287	31	108609m	0.254	ug/ml	LRL/NC

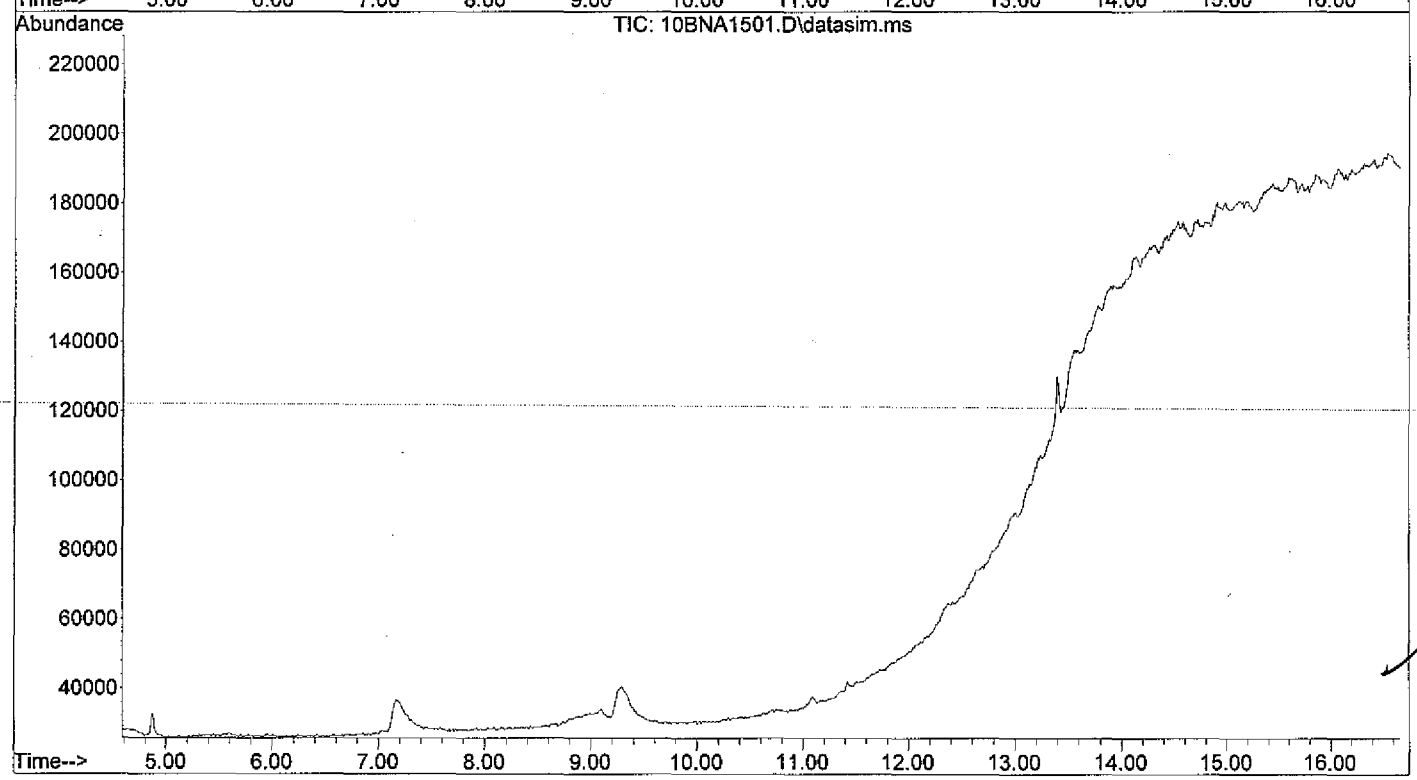
(#) = qualifier out of range (m) = manual integration (+) = signals summed

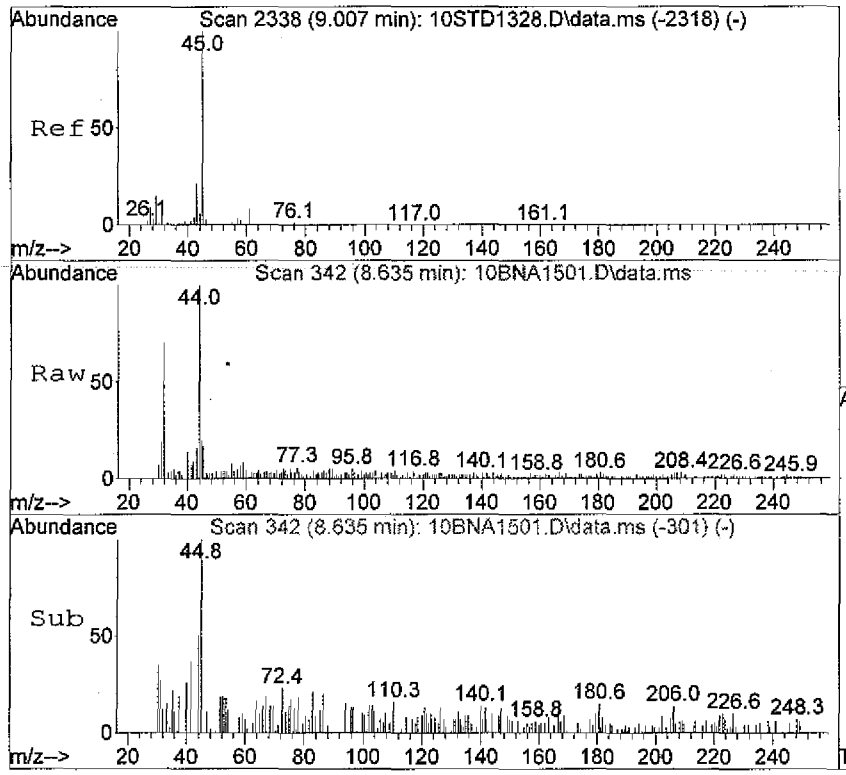
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1501.D
Acq On : 24 May 2012 8:59 pm
Operator : DG
Sample : 1205010-04 Inst : Betty
Misc : DIMOCK
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 12:35:12 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



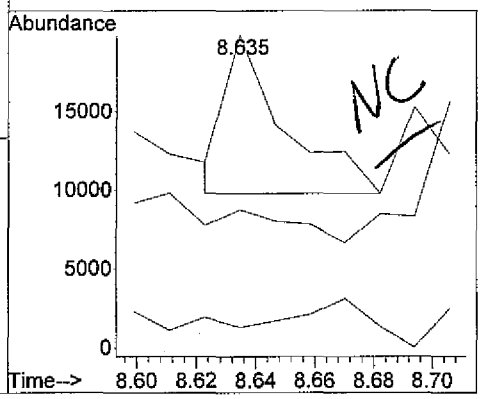


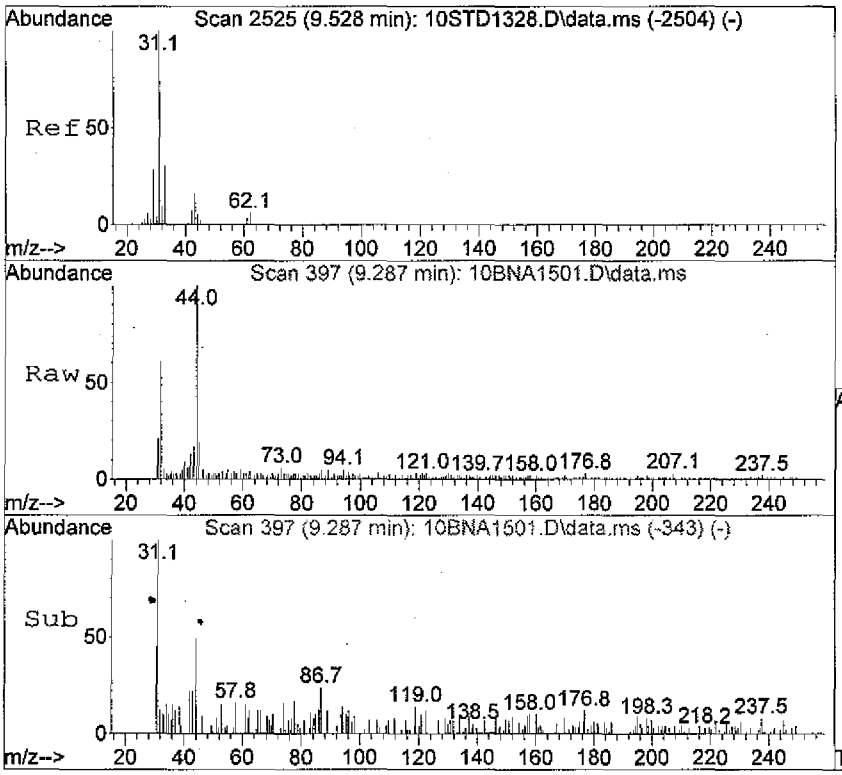


#1
Propylene Glycol
Concen: Below Cal
RT: 8.635 min Scan# 342
Delta R.T. -0.011 min
Lab File: 10BNA1501.D
Acq: 24 May 2012 8:59 pm

Tgt Ion: 45 Resp: 14043

Ion	Ratio	Lower	Upper
45	100		
43	6.9	24.0	41.2#
61	0.0	0.0	16.3

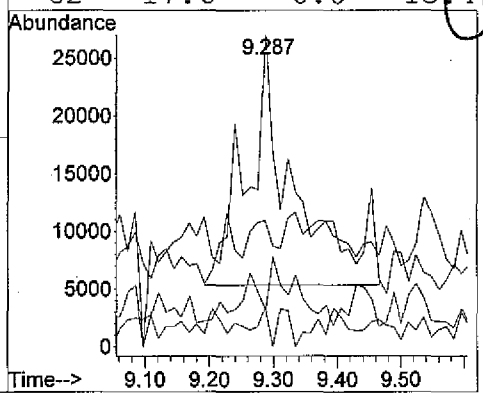




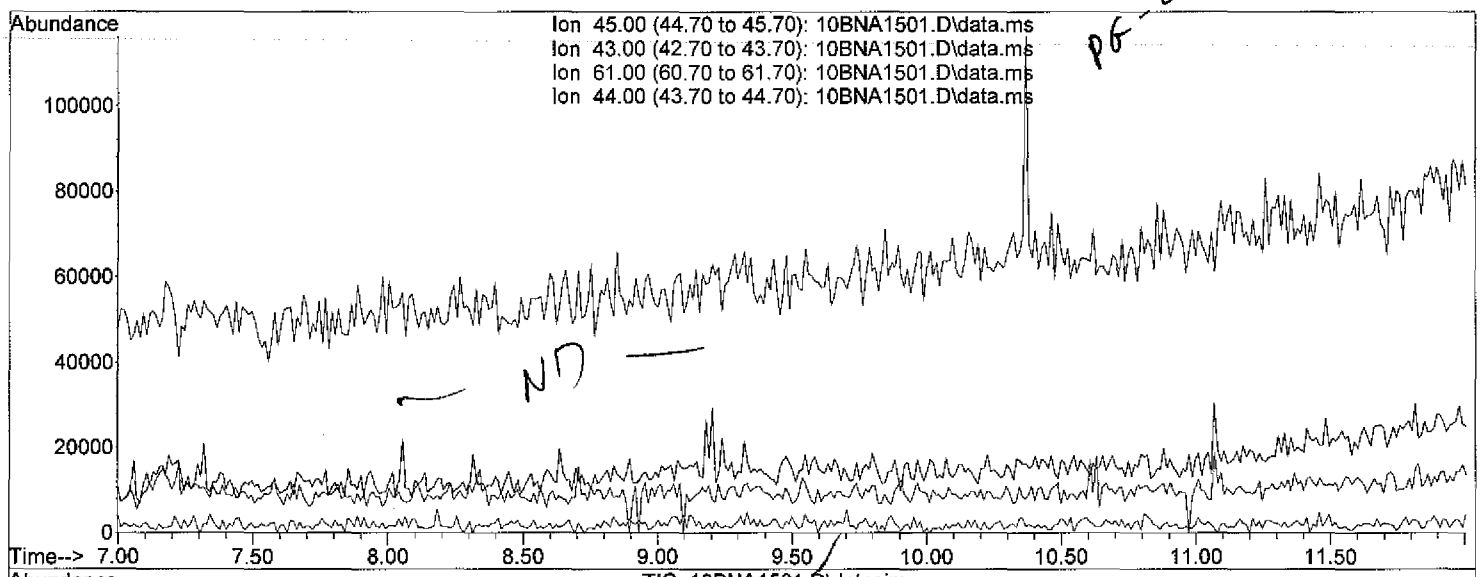
#2
Ethylene Glycol
Concen: 0.254 ug/ml m
RT: 9.287 min Scan# 397
Delta R.T. 0.143 min
Lab File: 10BNA1501.D
Acq: 24 May 2012 8:59 pm

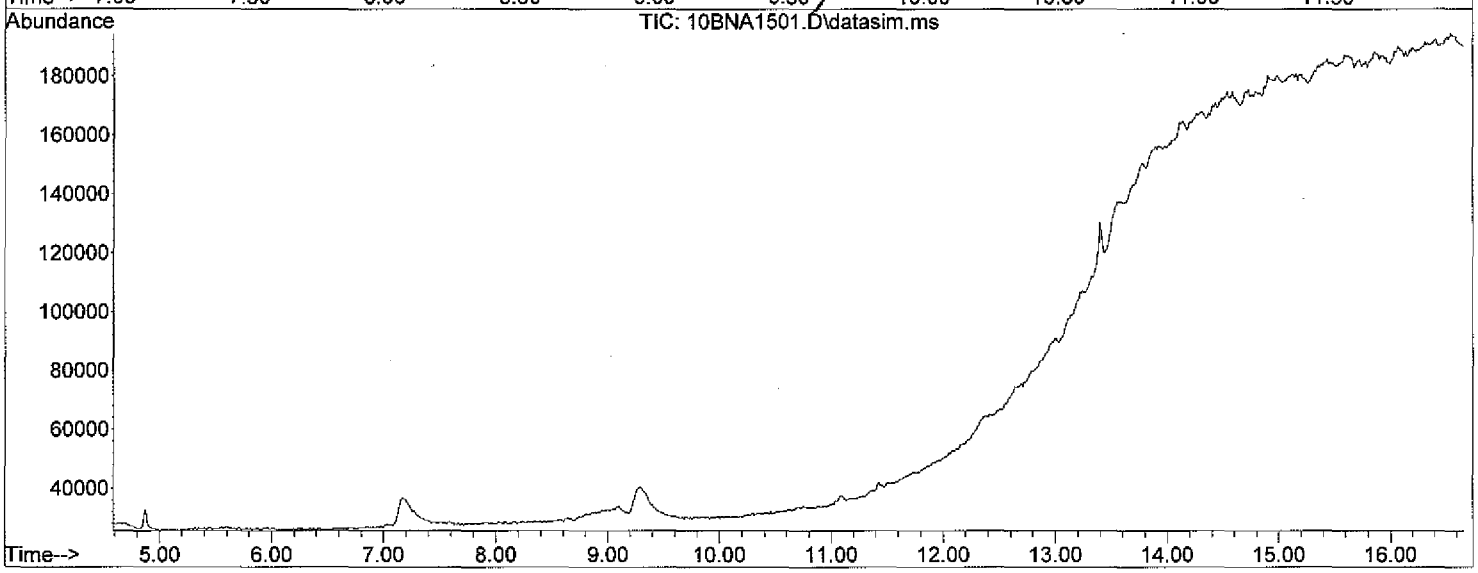
Tgt Ion: 31 Resp: 108609

Ion	Ratio	Lower	Upper
31	100		
33	23.5	24.1	42.3#
43	80.6	18.4	36.6#
62	17.6	0.0	15.4#



File :D:\1\DATA\12_0524B\10BNA1501.D
Operator : DG
Acquired : 24 May 2012 8:59 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 1205010-04
Misc Info : DIMOCK
Vial Number: 19





Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-05 **Station ID: HW62**

Batch: B2E2402
Sample Type: Liquid

Date Collected: 05/22/12
Sample Vol: 1ml

Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

DRAFT

X1

-My

Skon for MS/MSD

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1502.D
Acq On : 24 May 2012 9:18 pm
Operator : DG
Sample : 1205010-05 Inst : Betty
Misc : DIMOCK
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 31 12:35:52 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene Glycol	8.623	45	13130	N.D.	
2) Ethylene Glycol	9.323	31	83128m	0.194 ug/ml	LOQ/NC

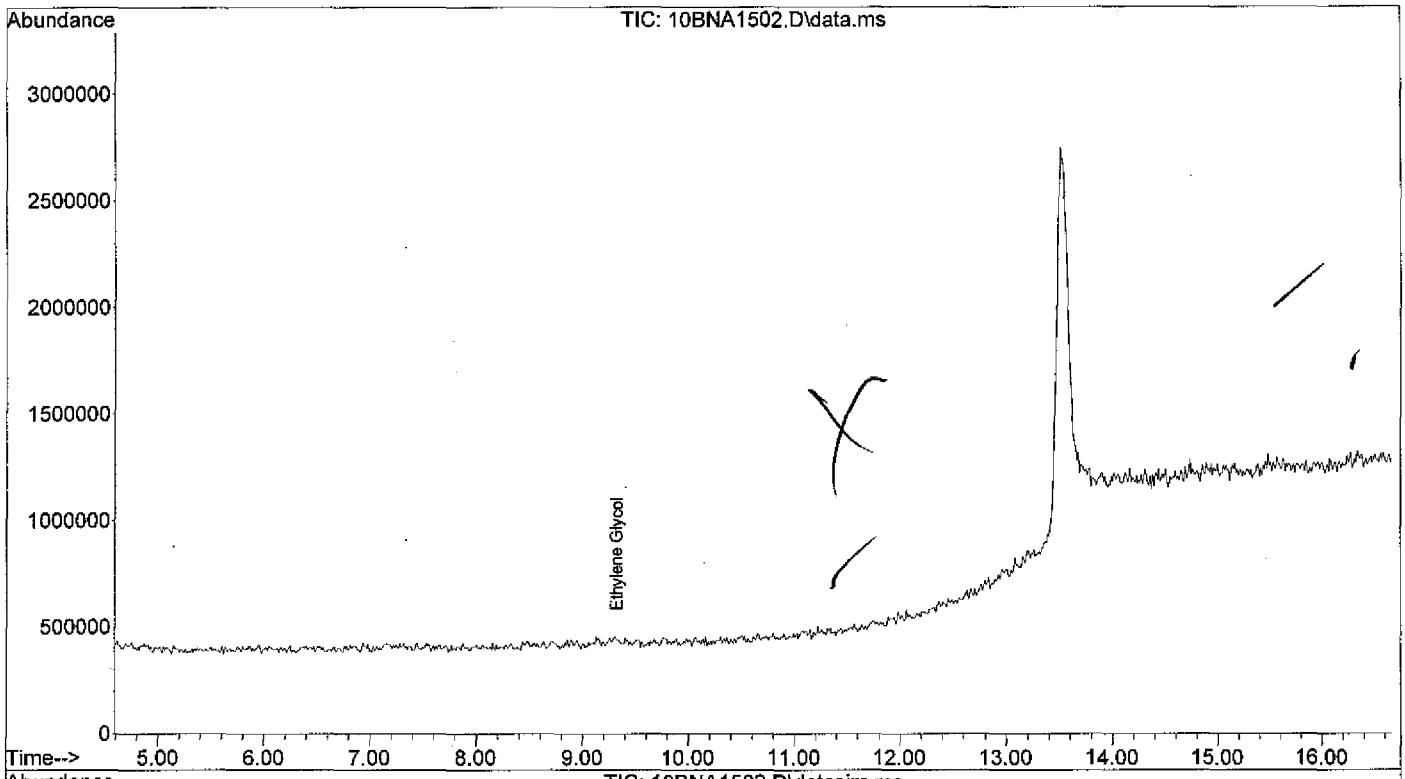
(#) = qualifier out of range (m) = manual integration (+) = signals summed

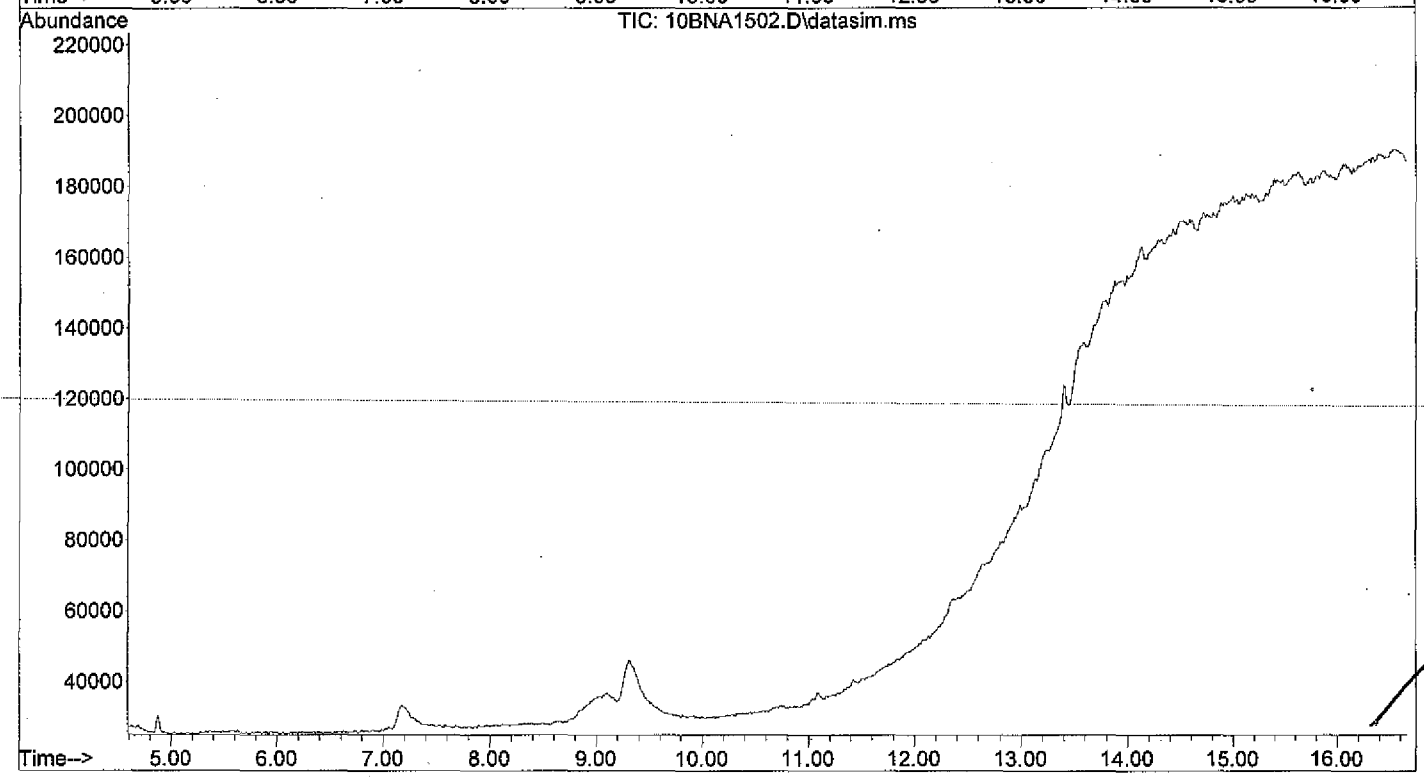
BKGRD FOR MS/MSD

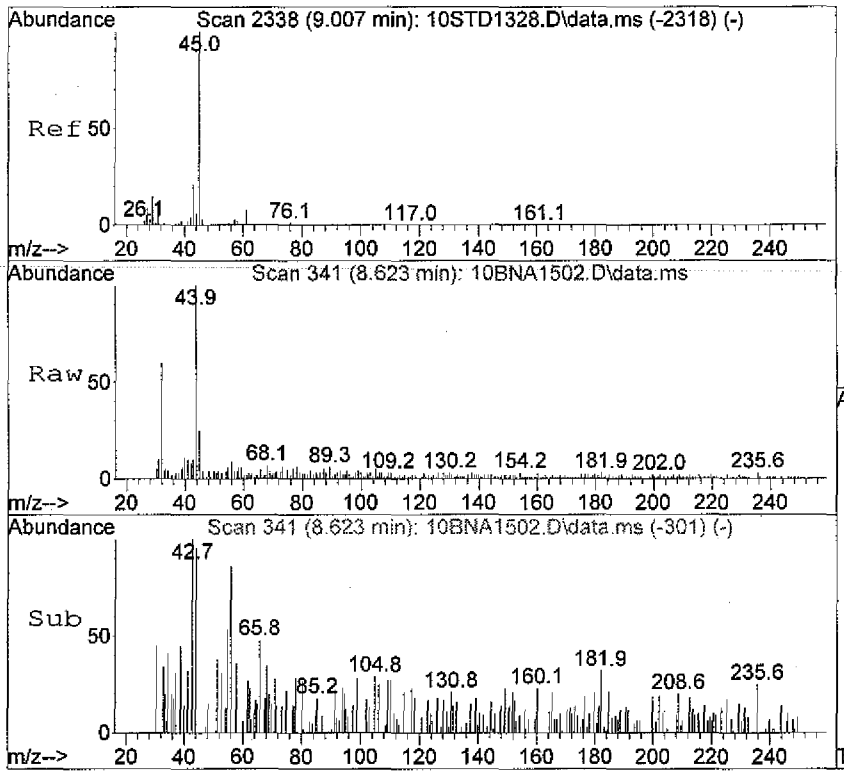
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1502.D
Acq On : 24 May 2012 9:18 pm
Operator : DG
Sample : 1205010-05 Inst : Betty
Misc : DIMOCK
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 31 12:35:52 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



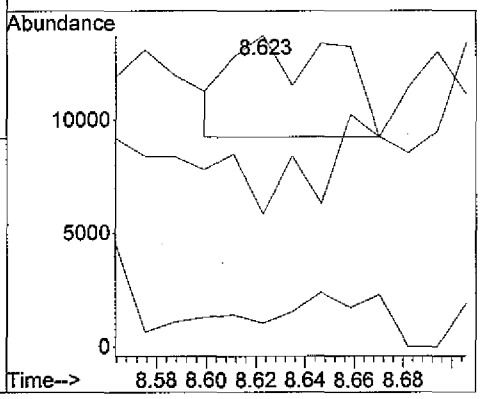


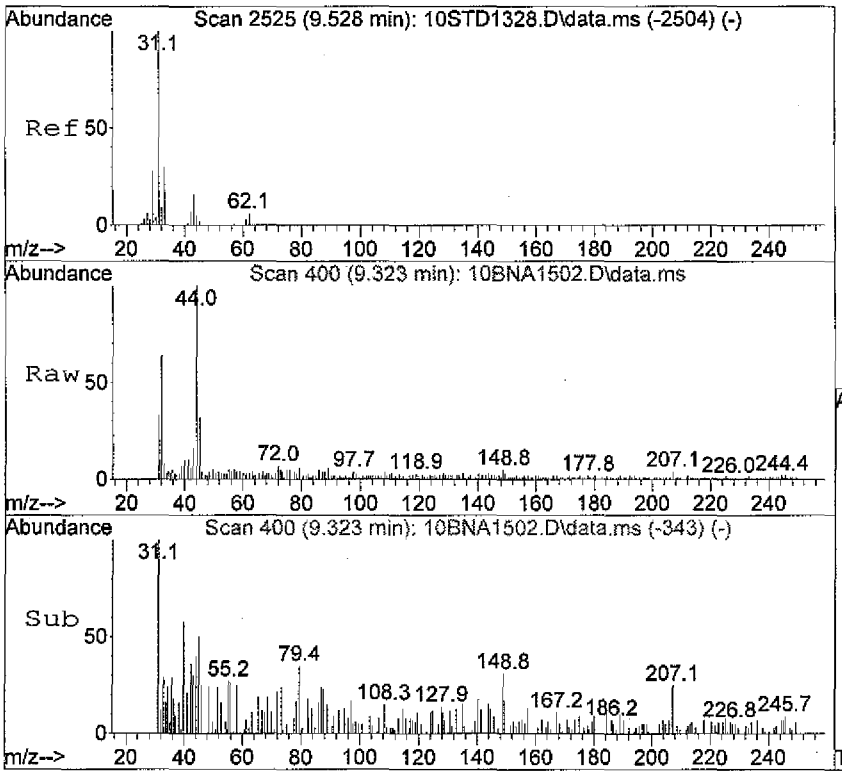


#1
Propylene Glycol
Concen: Below Cal
RT: 8.623 min Scan# 341
Delta R.T. -0.023 min
Lab File: 10BNA1502.D
Acq: 24 May 2012 9:18 pm

Tgt Ion: 45 Resp: 13130

Ion	Ratio	Lower	Upper
45	100		
43	0.0	24.0	41.2#
61	23.2	0.0	16.3#



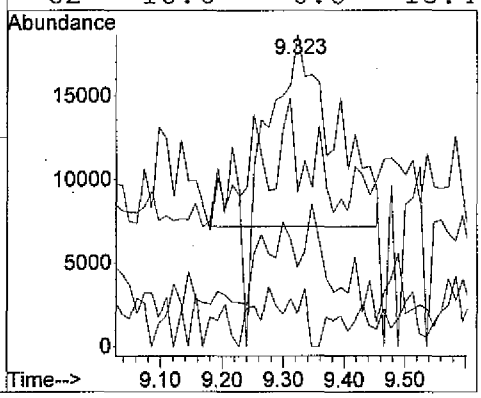


#2
Ethylene Glycol
Concen: 0.194 ug/ml m
RT: 9.323 min Scan# 400
Delta R.T. 0.178 min
Lab File: 10BNA1502.D
Acq: 24 May 2012 9:18 pm

Tgt Ion: 31 Resp: 83128

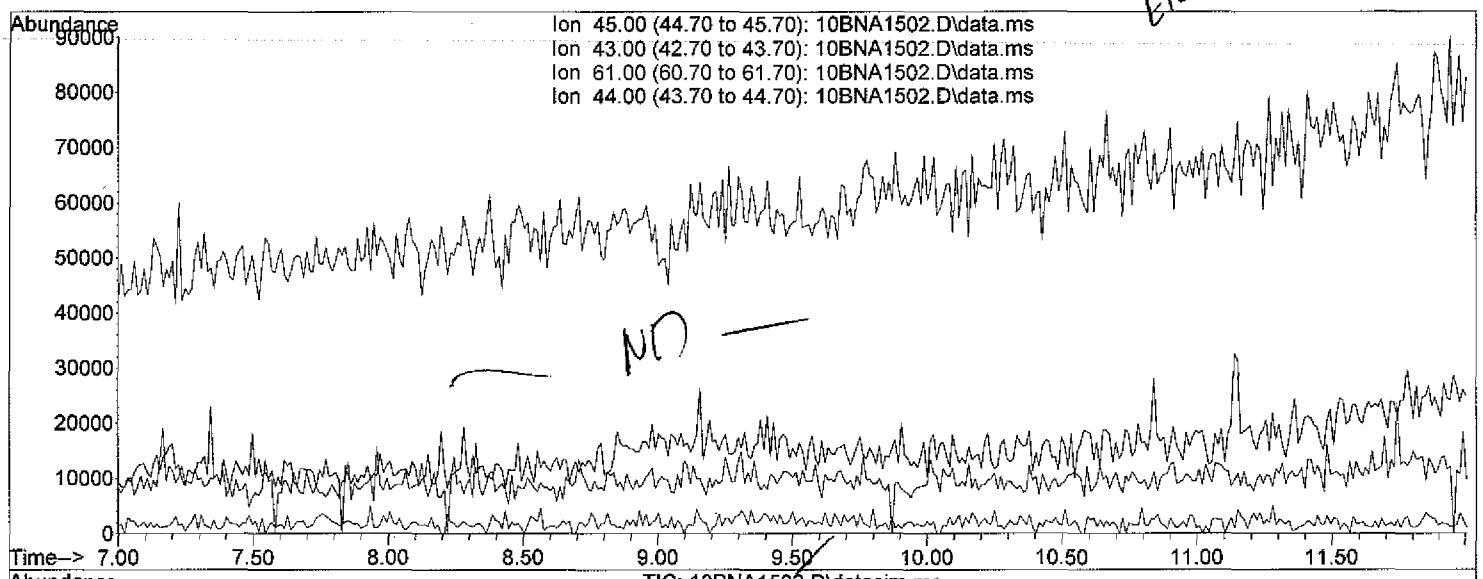
Ion	Ratio	Lower	Upper
31	100		
33	25.6	24.1	42.3
43	49.7	18.4	36.6#
62	10.6	0.0	15.4

NC

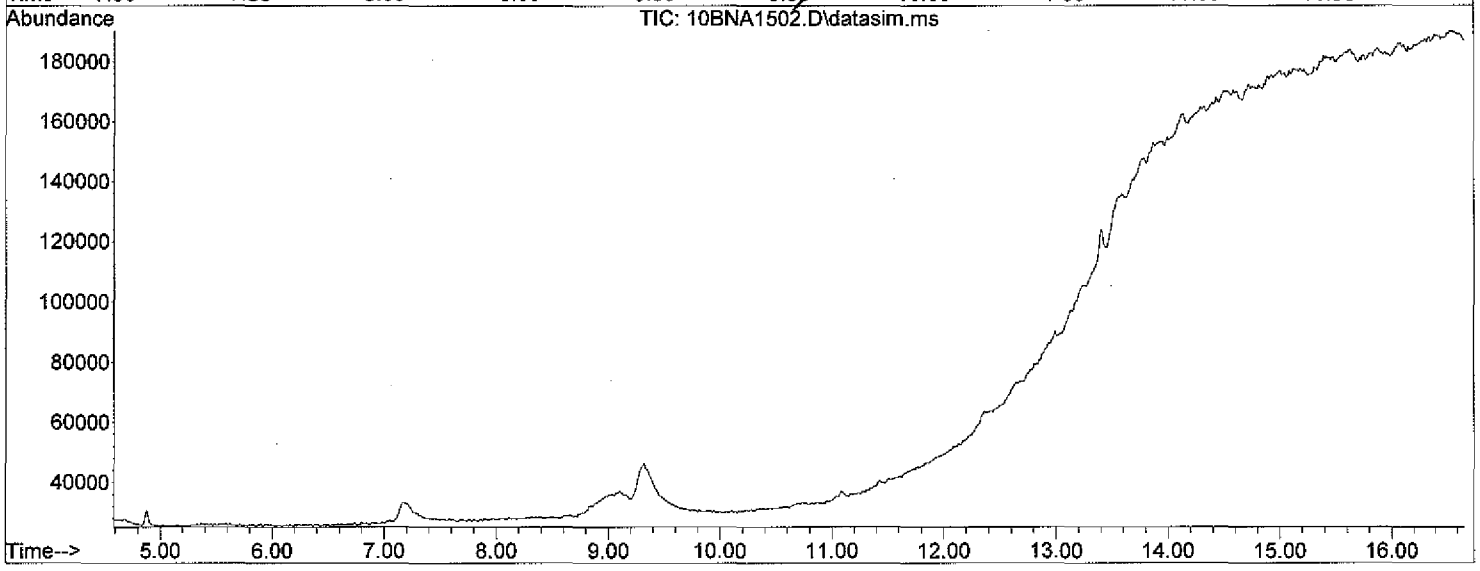


File :D:\1\DATA\12_0524B\10BNA1502.D
Operator : DG
Acquired : 24 May 2012 9:18 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 1205010-05
Misc Info : DIMOCK
Vial Number: 20

PG EICP



NO



Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-06 **Station ID: HW64**

Batch: B2E2402
Sample Type: Liquid

Date Collected: 05/22/12
Sample Vol: 1ml

Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

DRAFT

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1503.D
Acq On : 24 May 2012 9:36 pm
Operator : DG
Sample : 1205010-06 Inst : Betty
Misc : DIMOCK
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 12:36:07 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene Glycol	8.646	45	9424	N.D.	
2) Ethylene Glycol	9.157	31	6655	N.D.	

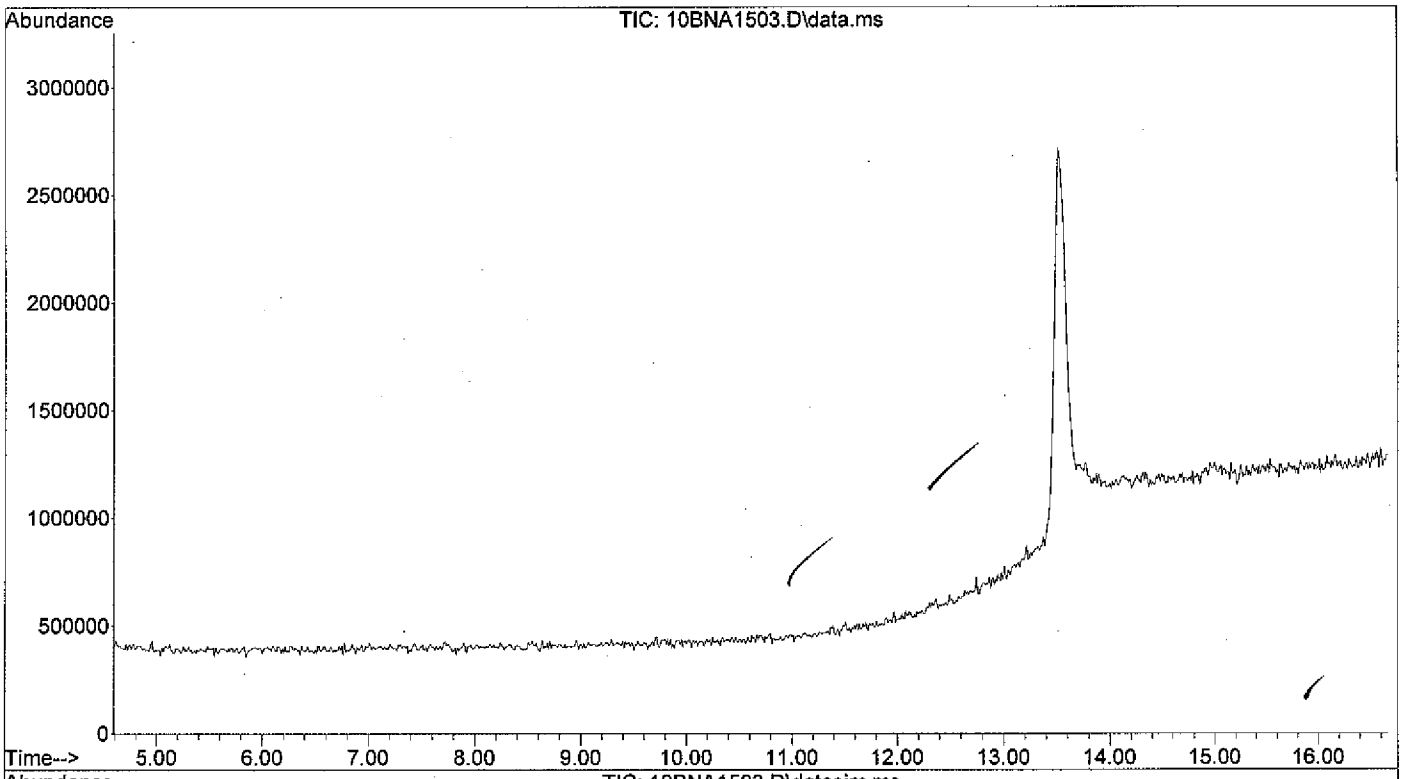
(#) = qualifier out of range (m) = manual integration (+) = signals summed

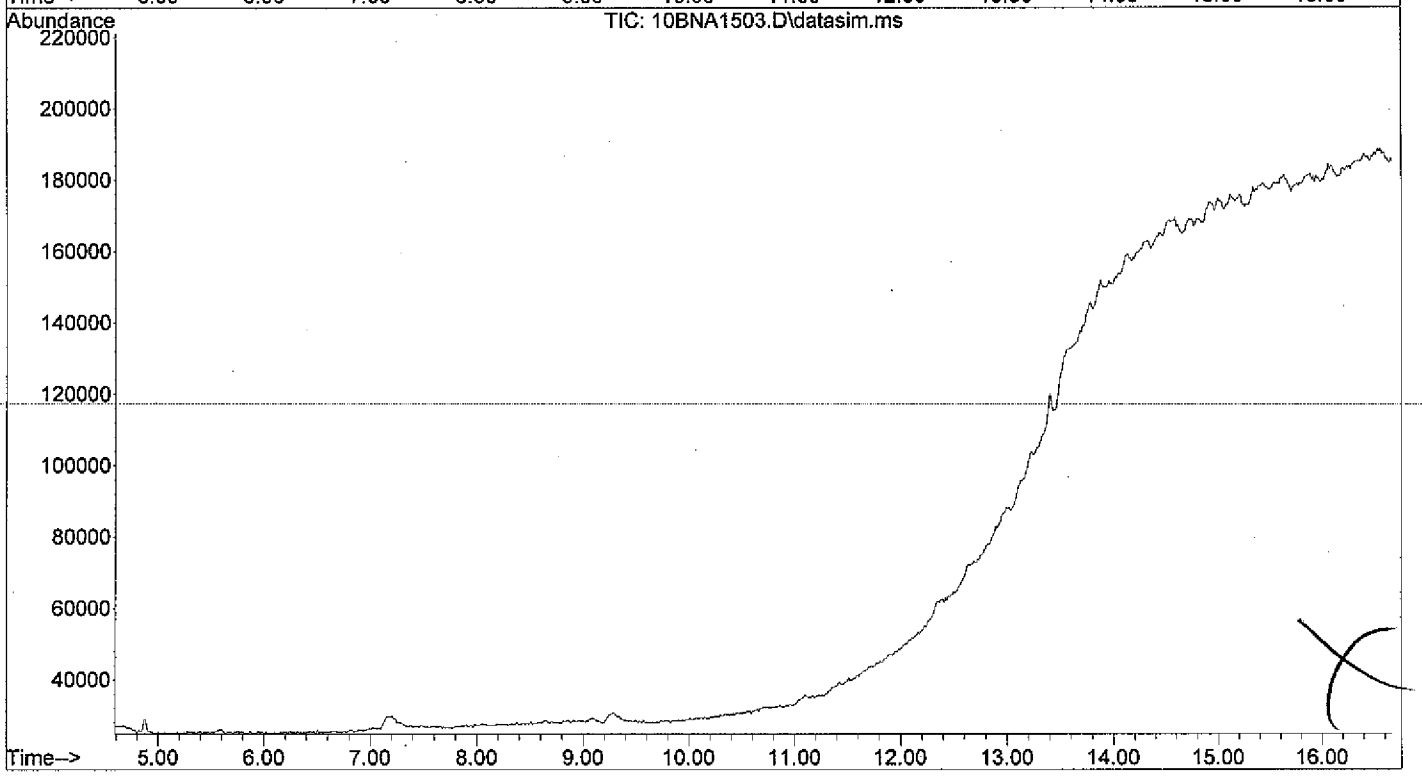
X-MD

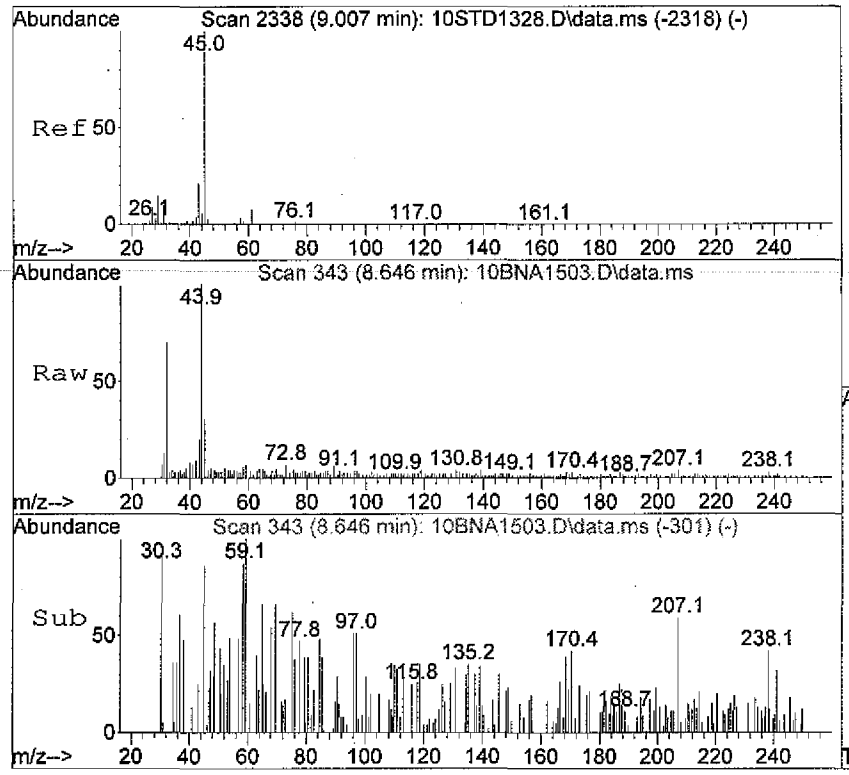
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1503.D
Acq On : 24 May 2012 9:36 pm
Operator : DG
Sample : 1205010-06 Inst : Betty
Misc : DIMOCK
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 12:36:07 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



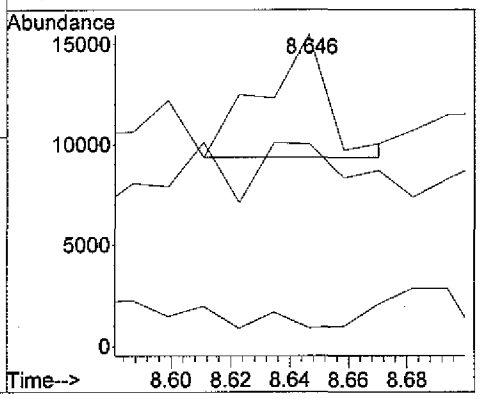


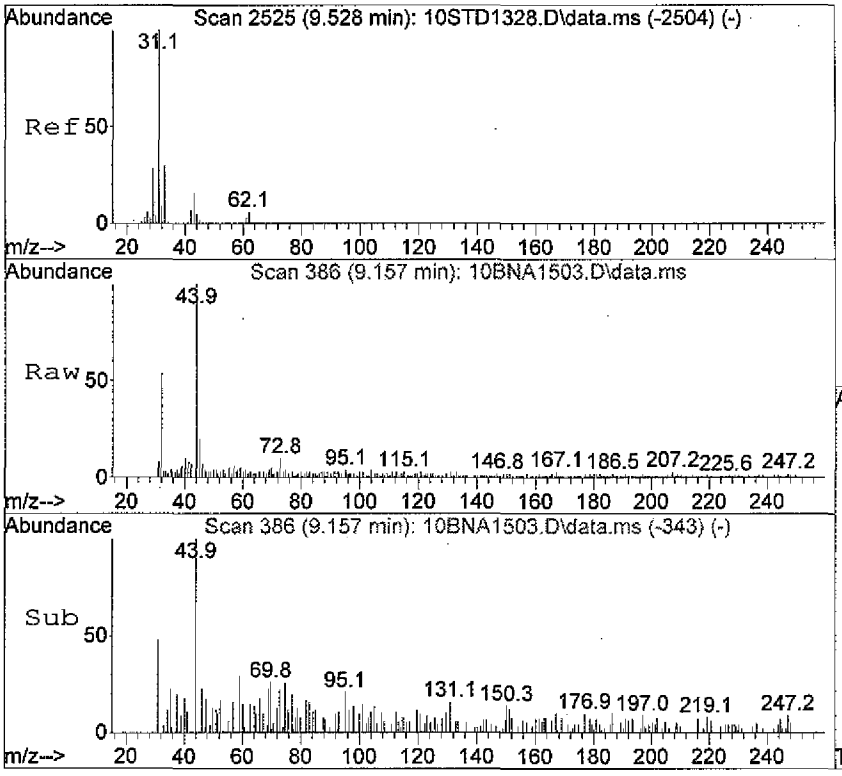


#1
Propylene Glycol
Concen: Below Cal
RT: 8.646 min Scan# 343
Delta R.T. 0.000 min
Lab File: 10BNA1503.D
Acq: 24 May 2012 9:36 pm

Tgt Ion: 45 Resp: 9424

Ion	Ratio	Lower	Upper
45	100		
43	10.9	24.0	41.2#
61	0.0	0.0	16.3

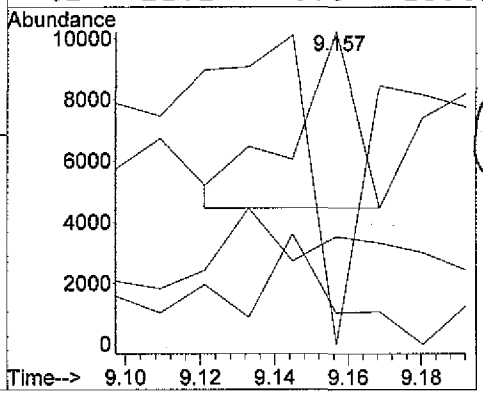




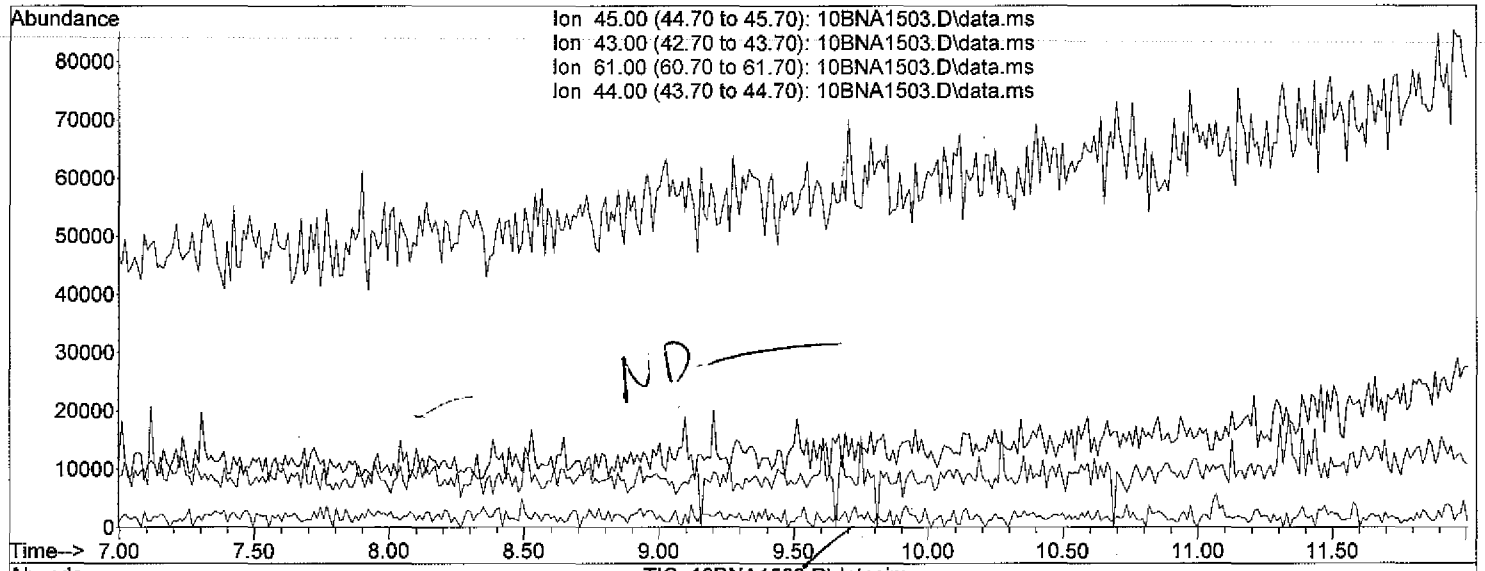
#2
Ethylene Glycol
Concen: Below Cal
RT: 9.157 min Scan# 386
Delta R.T. 0.012 min
Lab File: 10BNA1503.D
Acq: 24 May 2012 9:36 pm

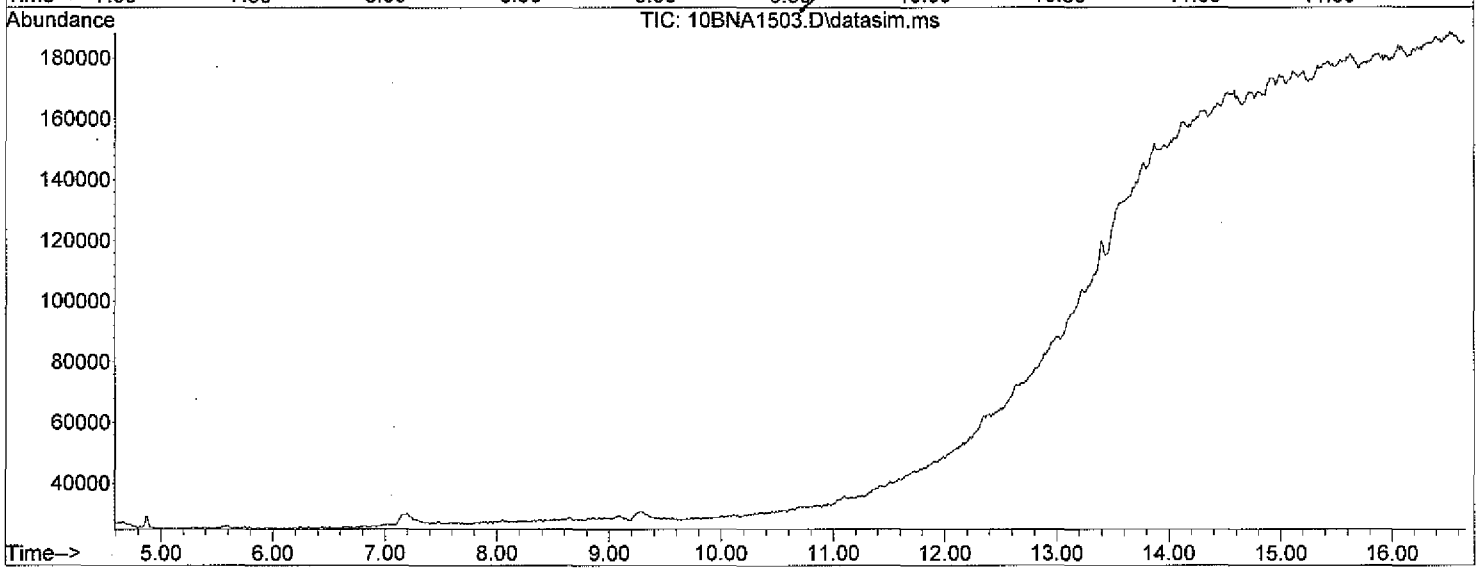
Tgt Ion: 31 Resp: 6655

Ion	Ratio	Lower	Upper
31	100		
33	0.0	24.1	42.3#
43	0.0	18.4	36.6#
62	21.2	0.0	15.4#



File :D:\1\DATA\12_0524B\10BNA1503.D
Operator : DG
Acquired : 24 May 2012 9:36 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 1205010-06
Misc Info : DIMOCK
Vial Number: 21





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Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS
ABN Glycols

Lab ID: 1205010-07 **Station ID: HW64-P**

Batch: B2E2402
Sample Type: Liquid

Date Collected: 05/22/12
Sample Vol: 1ml

Sample Qualifiers:
Analyst: DG

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	05/24/12	05/24/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

DG

DRAFT

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1504.D
Acq On : 24 May 2012 9:54 pm
Operator : DG
Sample : 1205010-07 Inst : Betty
Misc : DIMOCK
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 31 12:36:41 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

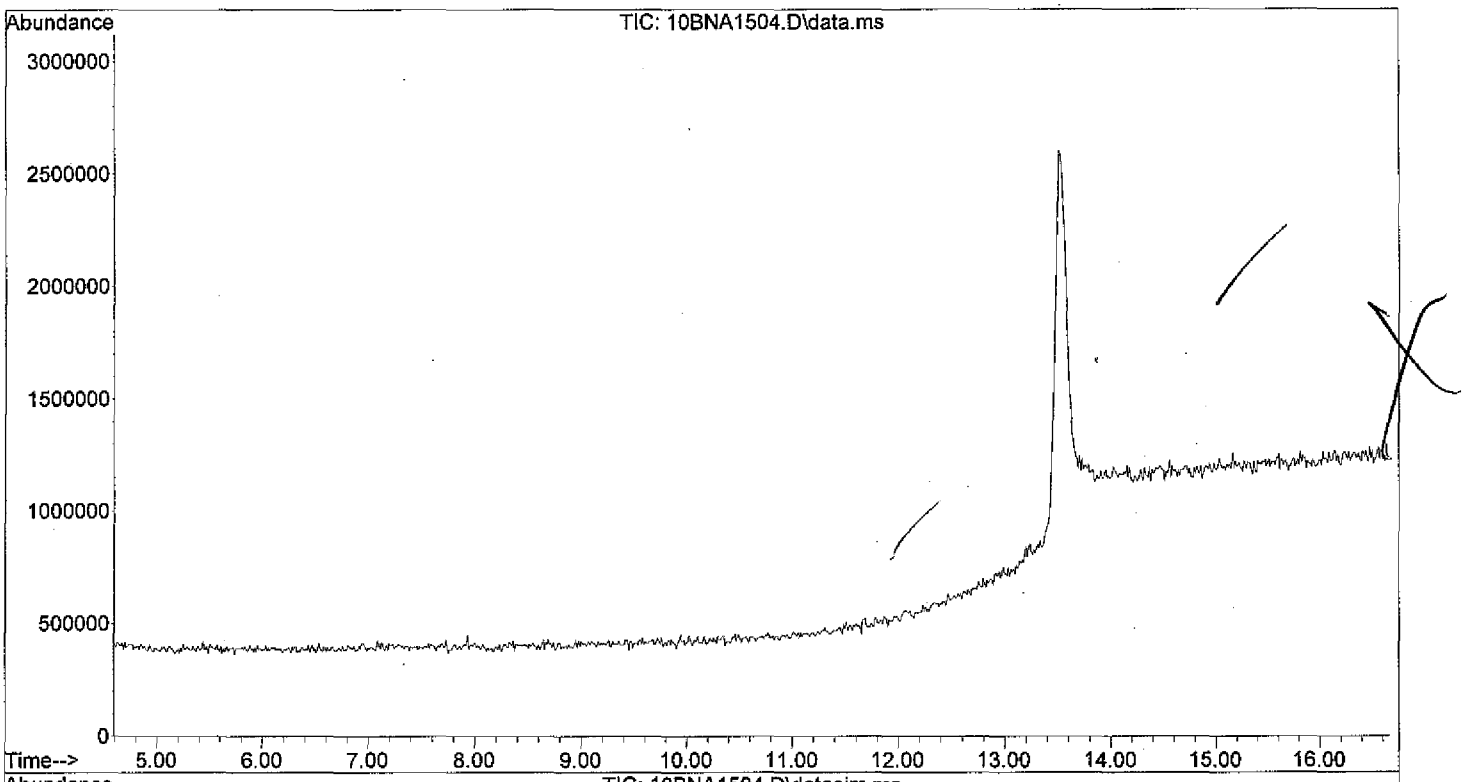
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.658	45	1509	N.D.		
2) Ethylene Glycol	0.000		0	N.D.		

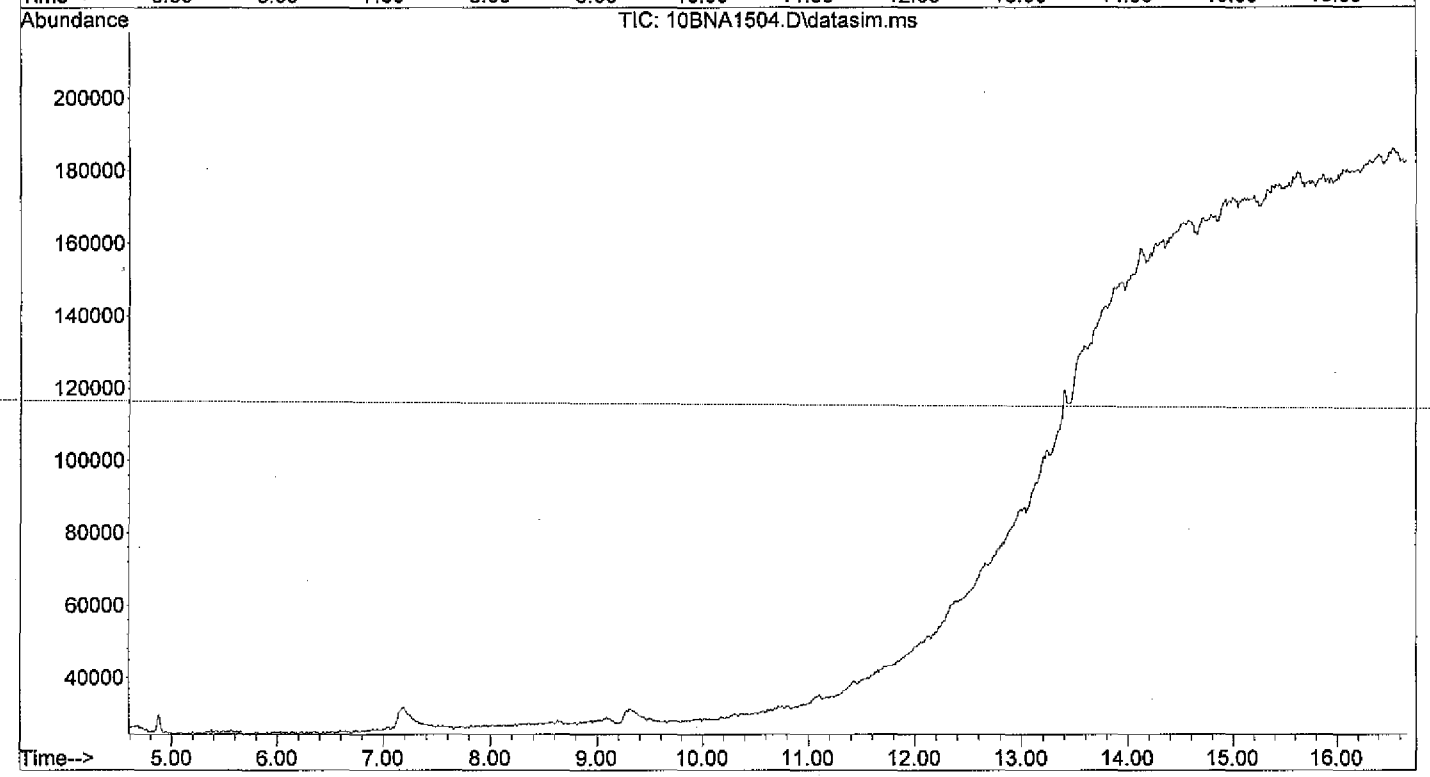
(#) = qualifier out of range (m) = manual integration (+) = signals summed

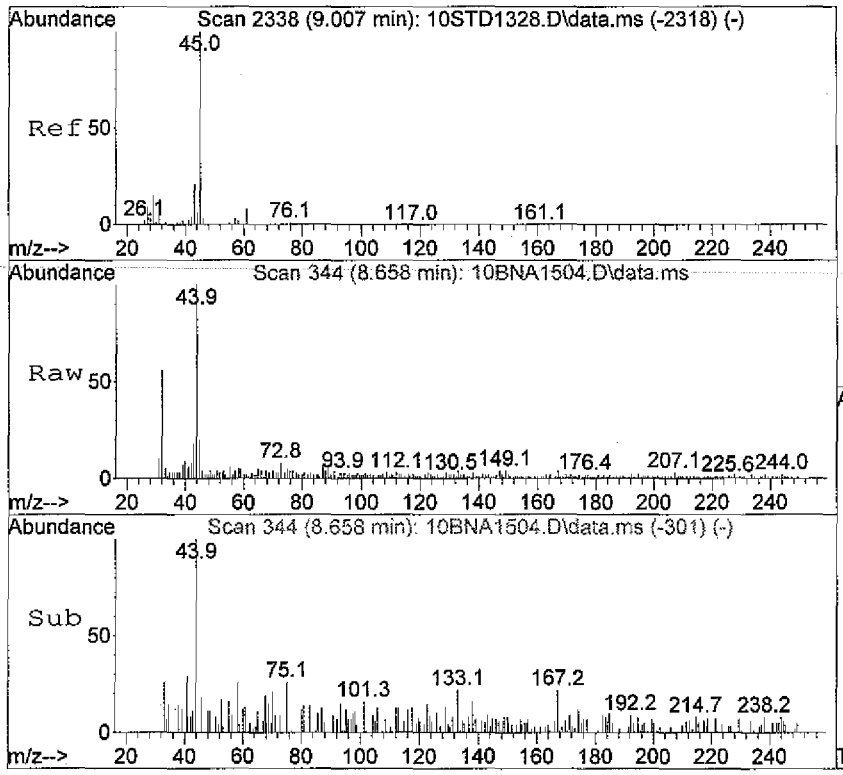
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1504.D
Acq On : 24 May 2012 9:54 pm
Operator : DG
Sample : 1205010-07 Inst : Betty
Misc : DIMOCK
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 31 12:36:41 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



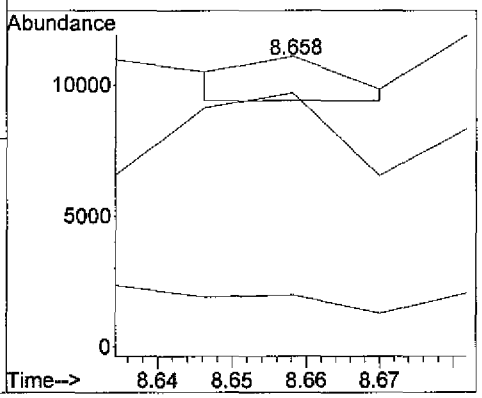




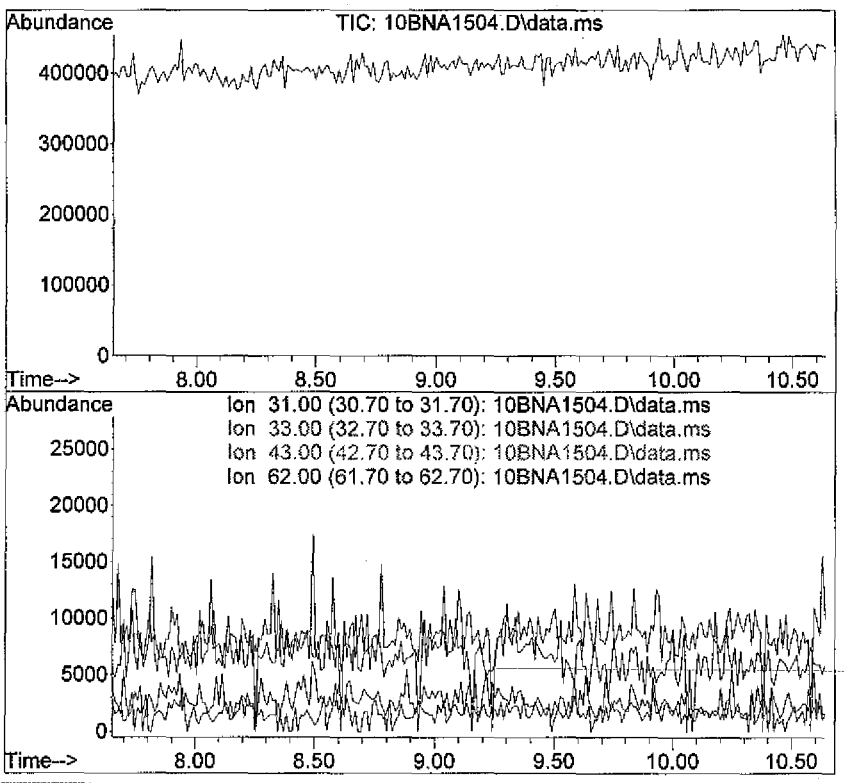
#1
Propylene Glycol
Concen: Below Cal
RT: 8.658 min Scan# 344
Delta R.T. 0.012 min
Lab File: 10BNA1504.D
Acq: 24 May 2012 9:54 pm

Tgt Ion: 45 Resp: 1509

Ion	Ratio	Lower	Upper
45	100		
43	199.4	24.0	41.2#
61	0.0	0.0	16.3



NC



#2
Ethylene Glycol
Concen: N.D.
Expected RT: 9.14 min

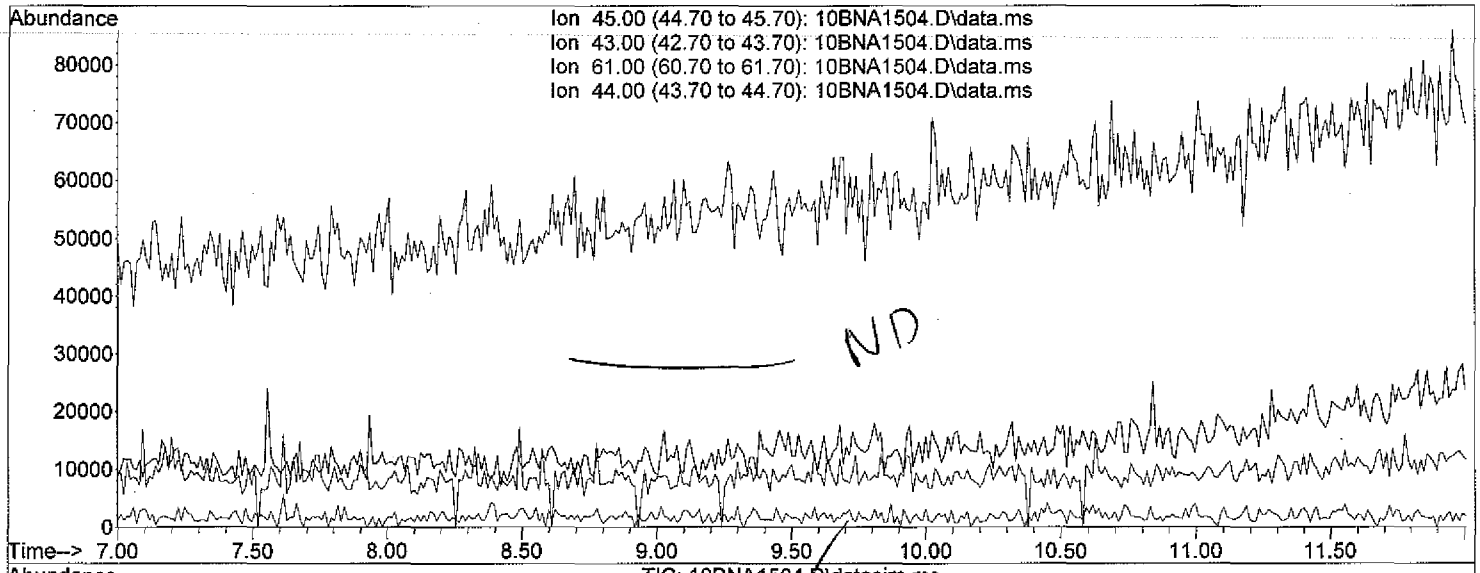
Lab File: 10BNA1504.D
Acq: 24 May 2012 9:54 pm

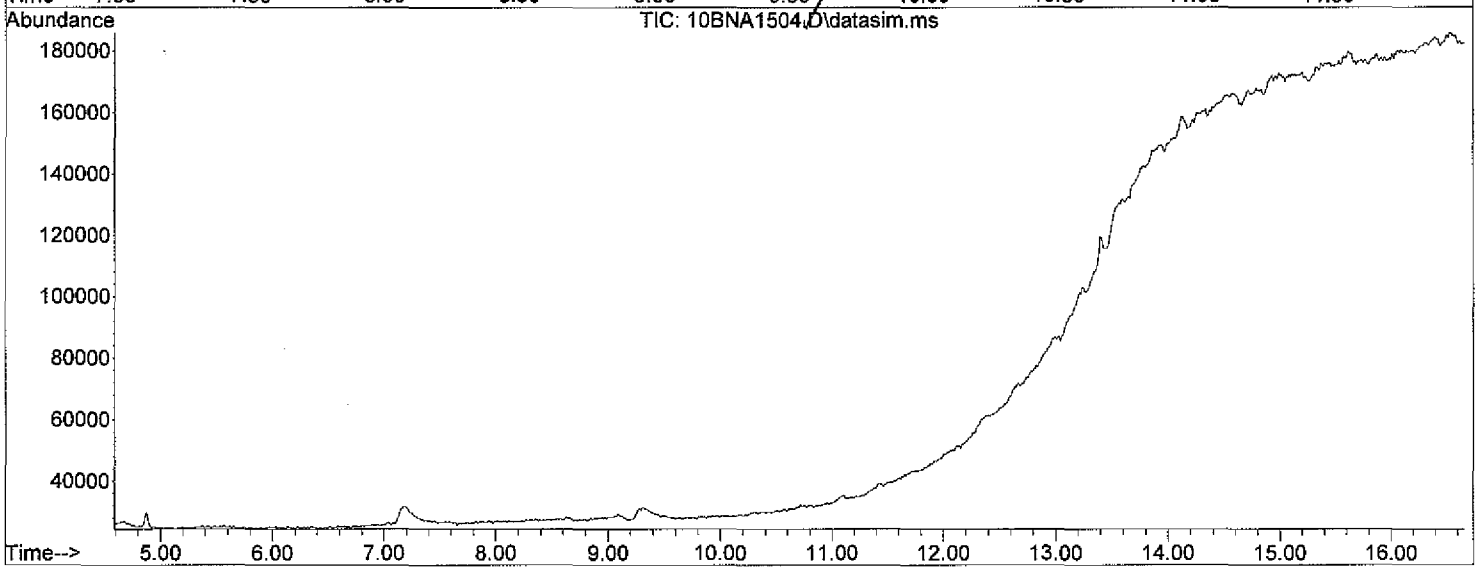
Tgt Ion: 31

Sig	Exp Ratio
31	100
33	33.2
43	27.5
62	6.3

File :D:\1\DATA\12_0524B\10BNA1504.D
Operator : DG
Acquired : 24 May 2012 9:54 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 1205010-07
Misc Info : DIMOCK
Vial Number: 22

PG EICP





Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2E2402 **Sample Type: Liquid**

Blank (B2E2402-BLK1)

Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

LCS (B2E2402-BS1)

Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Propylene glycol	9.2		2.0	10.0	91.8	70-130
Ethylene glycol	9.4		2.0	10.0	94.3	70-130

Matrix Spike (B2E2402-MS1)

Source: 1205010-05 Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Propylene glycol	9.8		2.0	10.0		98.3	70-130
Ethylene glycol	11.1		2.0	10.0		111	70-130

Matrix Spike Dup (B2E2402-MSD1)

Source: 1205010-05 Prepared: 5/24/2012 Analyzed: 5/24/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	9.0		2.0	10.0		90.0	70-130	8.89	30
Ethylene glycol	10.5		2.0	10.0		105	70-130	5.58	30

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1497.D
Acq On : 24 May 2012 7:47 pm
Operator : DG
Sample : B2E2402-BLK1 Inst : Betty BLK1
Misc : DIMOCK
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 31 12:32:04 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene Glycol	8.611	45	5692	N.D.	
2) Ethylene Glycol	9.157	31	3151	N.D.	

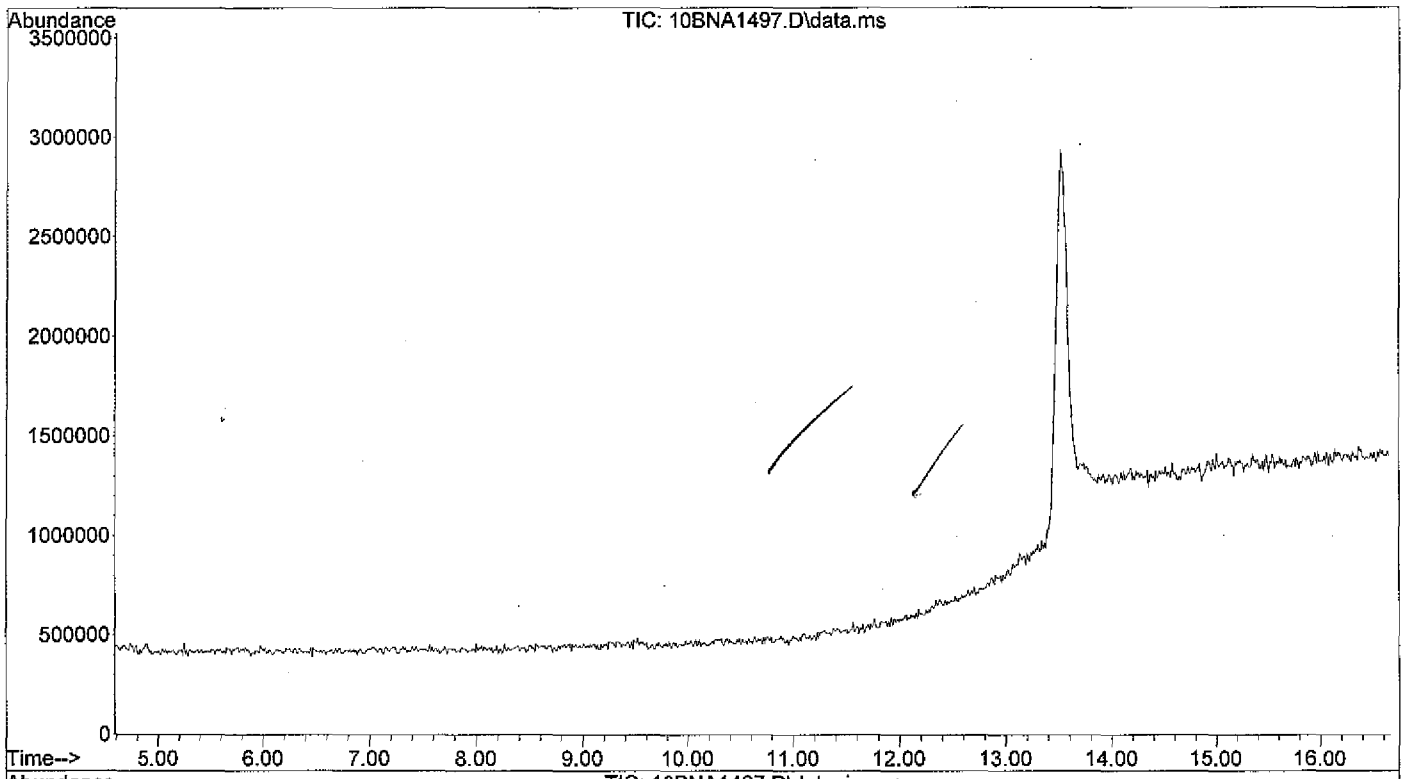
(#) = qualifier out of range (m) = manual integration (+) = signals summed

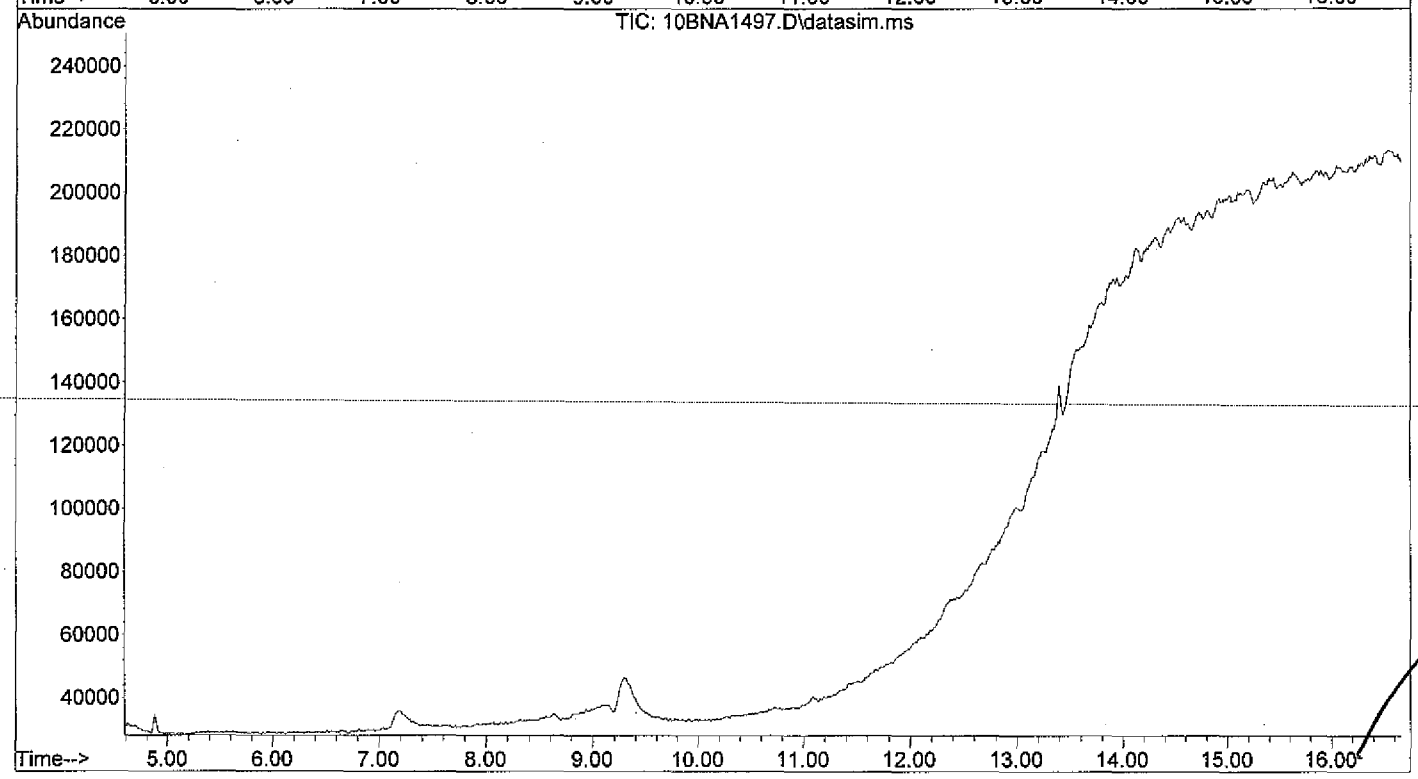
NM

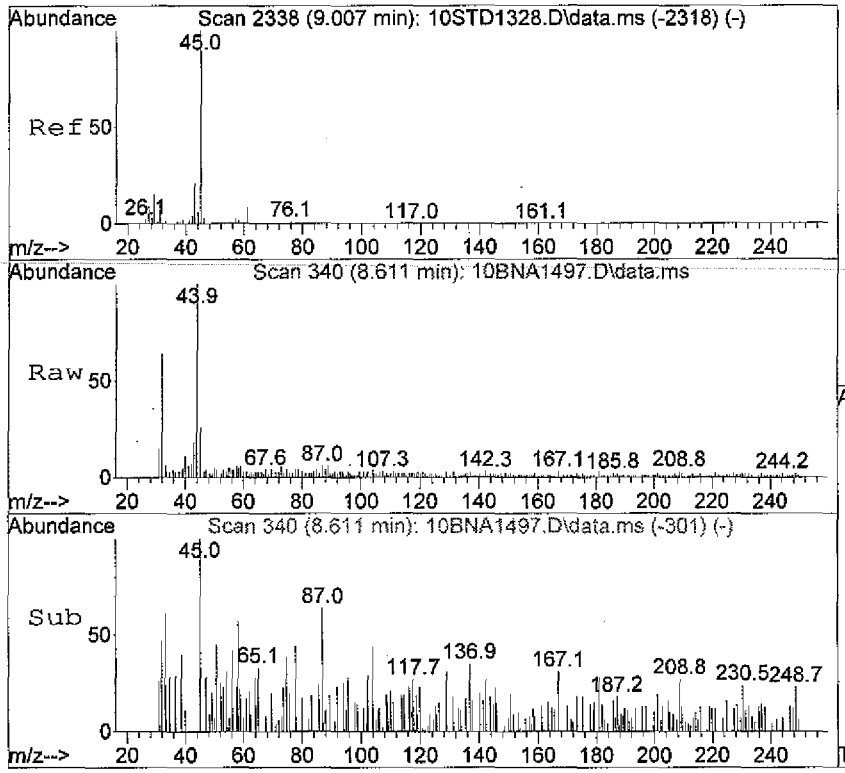
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1497.D
Acq On : 24 May 2012 7:47 pm
Operator : DG
Sample : B2E2402-BLK1 Inst : Betty
Misc : DIMOCK
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 31 12:32:04 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



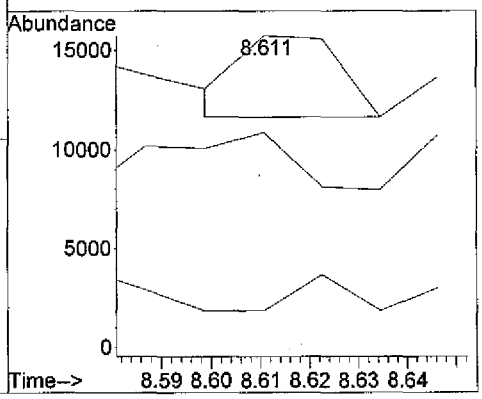


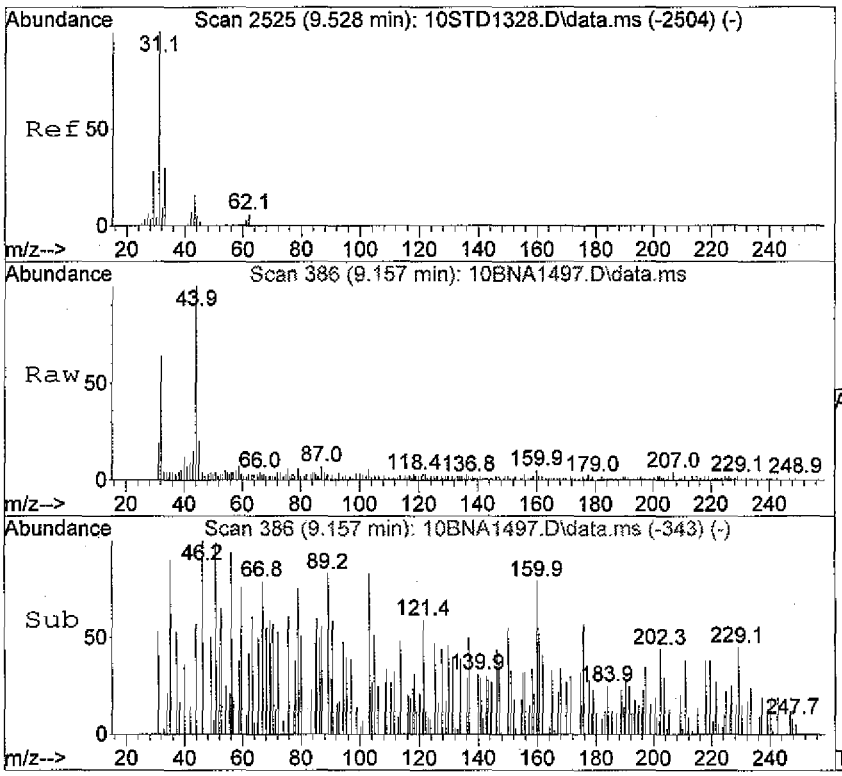


#1
Propylene Glycol
Concen: Below Cal
RT: 8.611 min Scan# 340
Delta R.T. -0.035 min
Lab File: 10BNA1497.D
Acq: 24 May 2012 7:47 pm

Tgt Ion: 45 Resp: 5692

Ion	Ratio	Lower	Upper
45	100		
43	55.0	24.0	41.2#
61	0.6	0.0	16.3

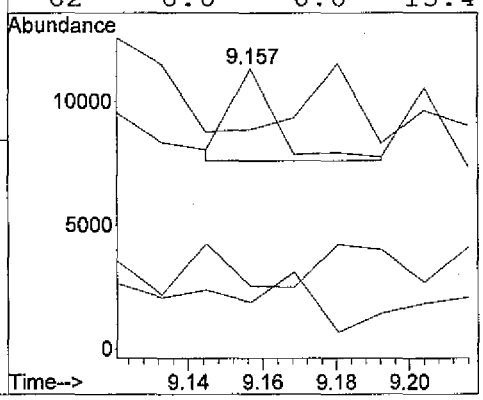




#2
Ethylene Glycol
Concen: Below Cal
RT: 9.157 min Scan# 386
Delta R.T. 0.012 min
Lab File: 10BNA1497.D
Acq: 24 May 2012 7:47 pm

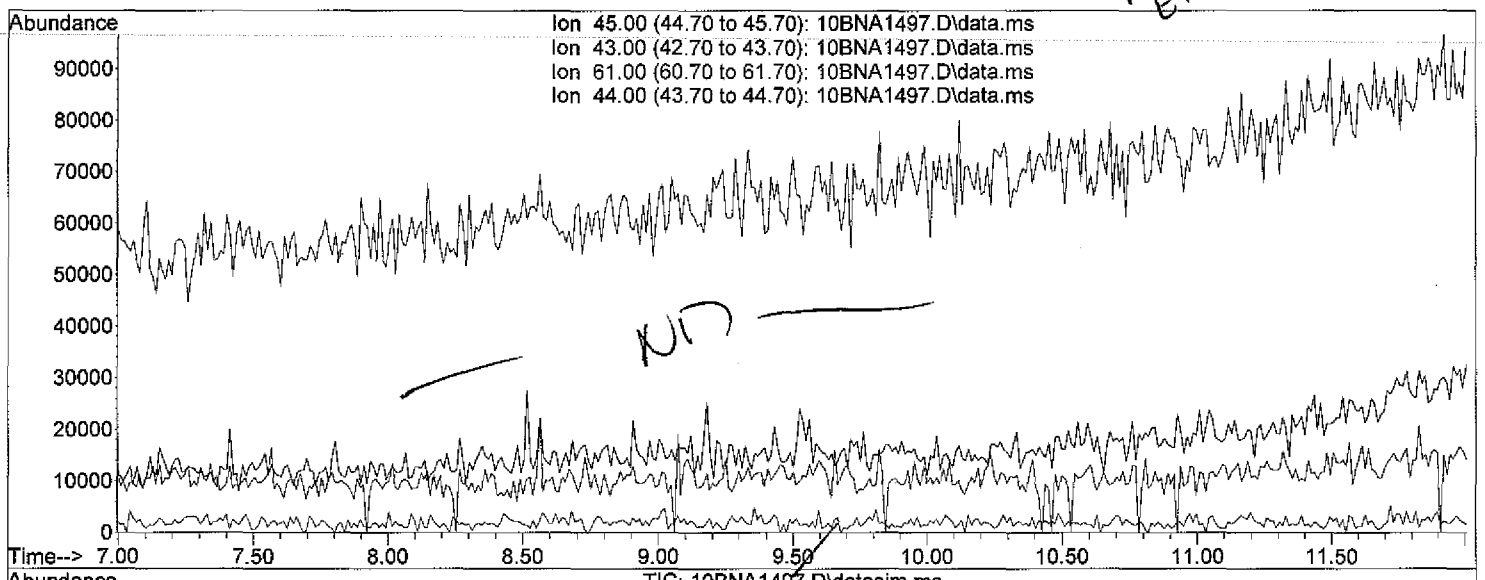
Tgt Ion: 31 Resp: 3151

Ion	Ratio	Lower	Upper
31	100		
33	0.0	24.1	42.3#
43	9.4	18.4	36.6#
62	0.0	0.0	15.4

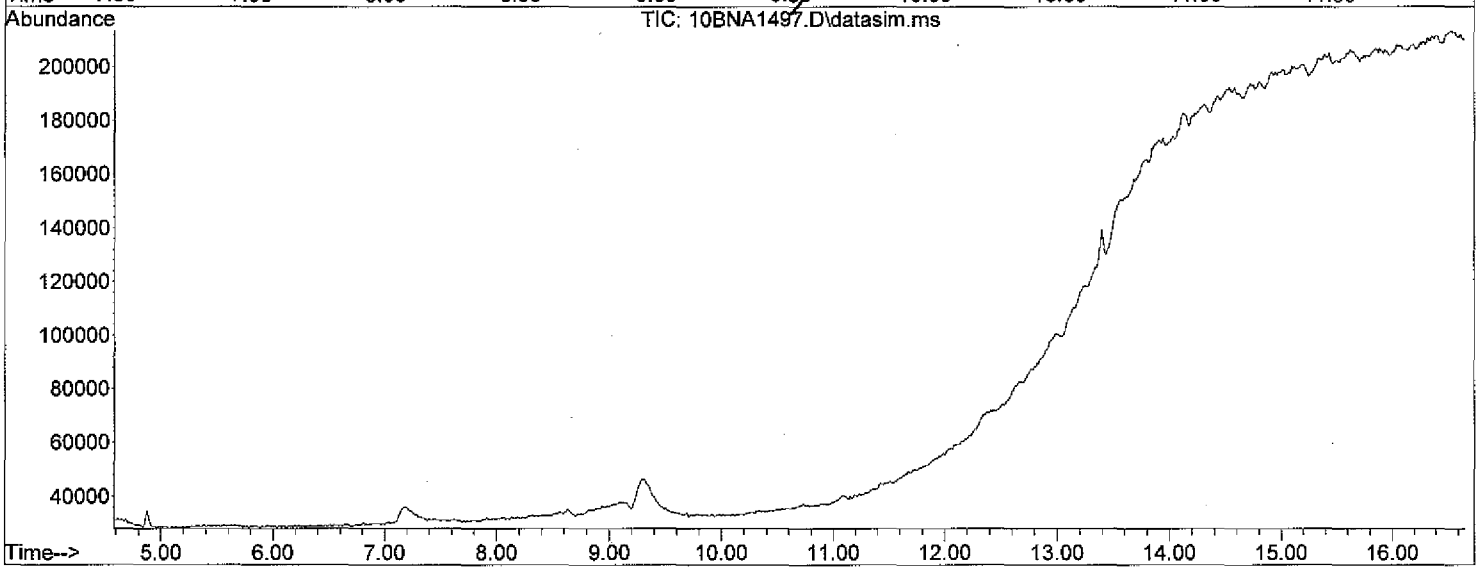


File :D:\1\DATA\12_0524B\10BNA1497.D
Operator : DG
Acquired : 24 May 2012 7:47 pm using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: B2E2402-BLK1
Misc Info : DIMOCK
Vial Number: 15

PG EICP



ND



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1494.D
Acq On : 24 May 2012 6:52 pm
Operator : DG
Sample : B2E2402-BS1 Inst : Betty
Misc : DIMOCK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 12:48:14 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	Qvalue
Target Compounds						
1) Propylene Glycol	8.682	45	7080745m	9.177 ug/ml		91.87%
2) Ethylene Glycol	9.180	31	4038557	9.429 ug/ml#	87	94.37

(#) = qualifier out of range (m) = manual integration (+) = signals summed

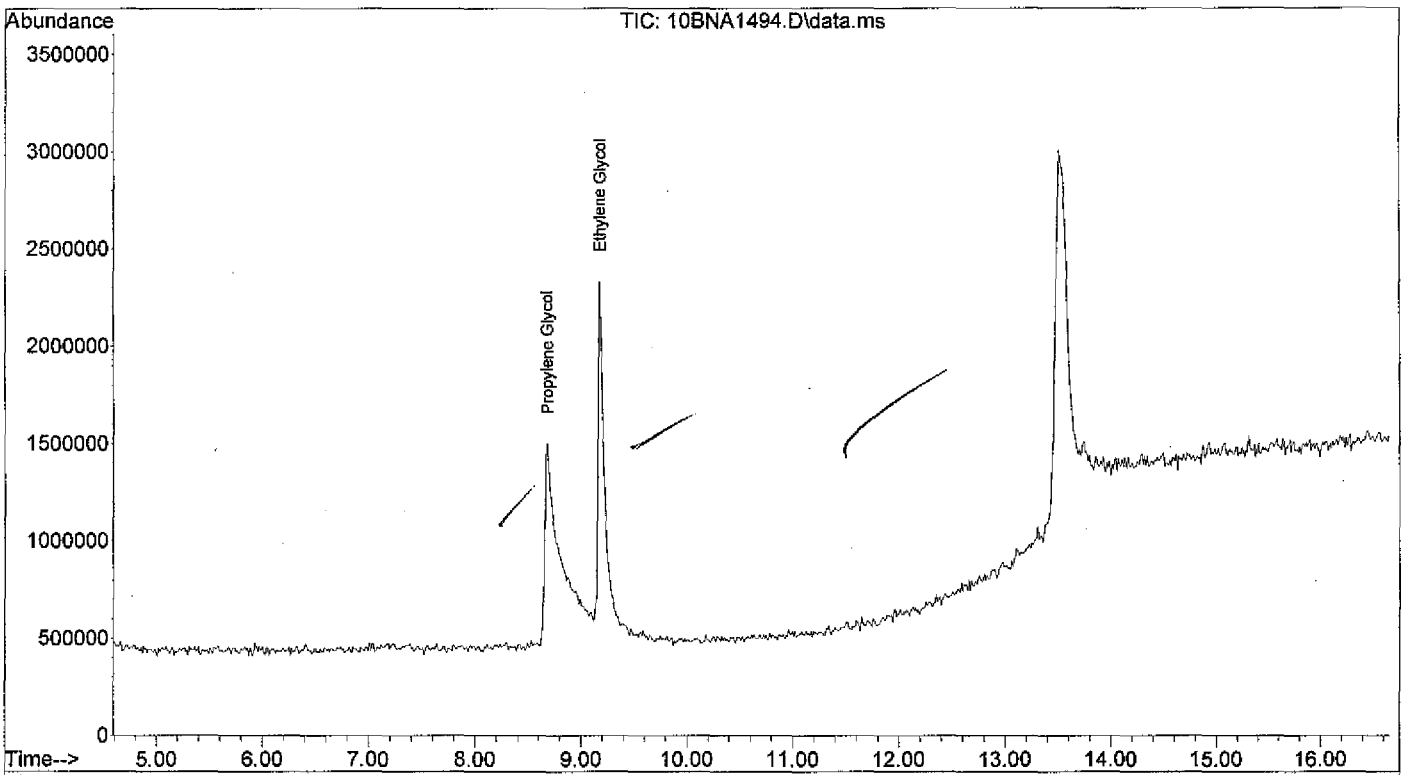
BS1

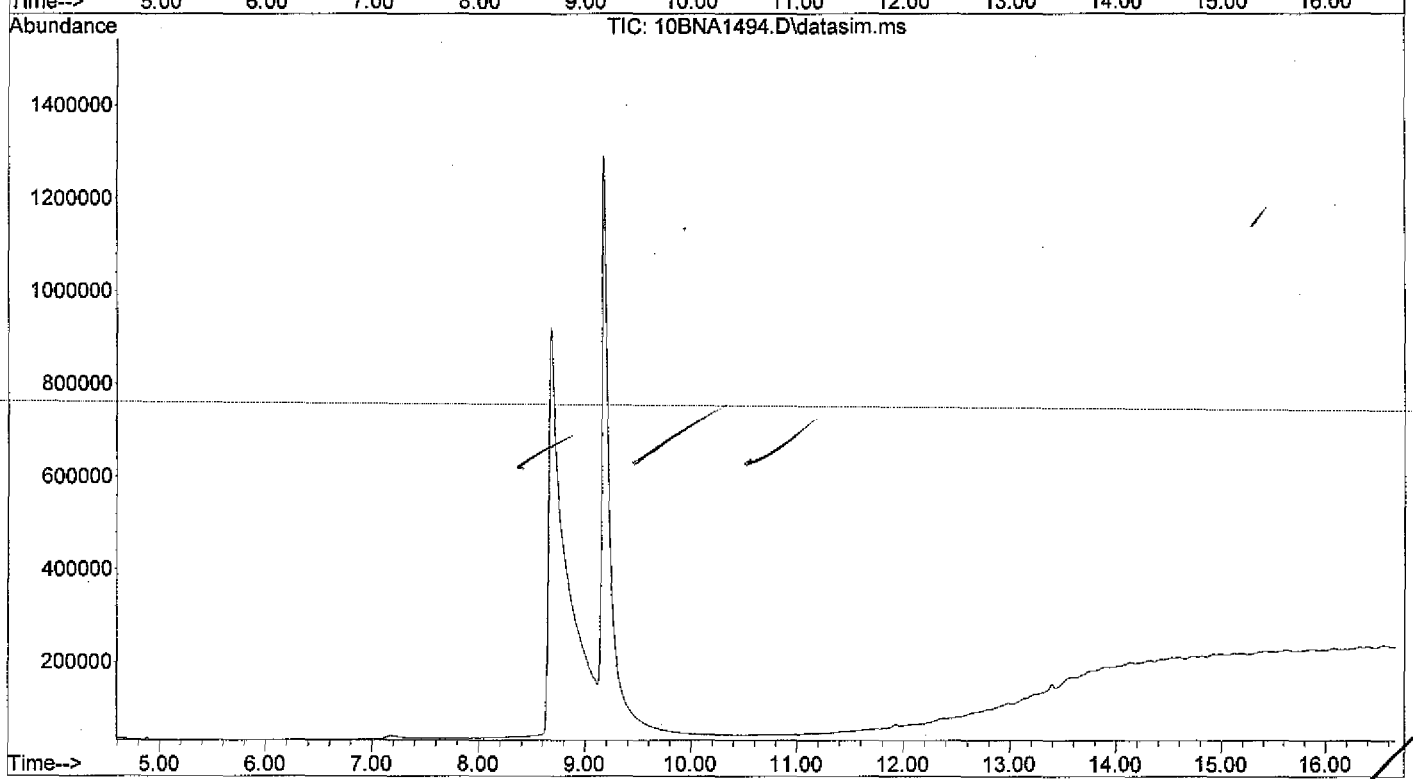
10 ppm

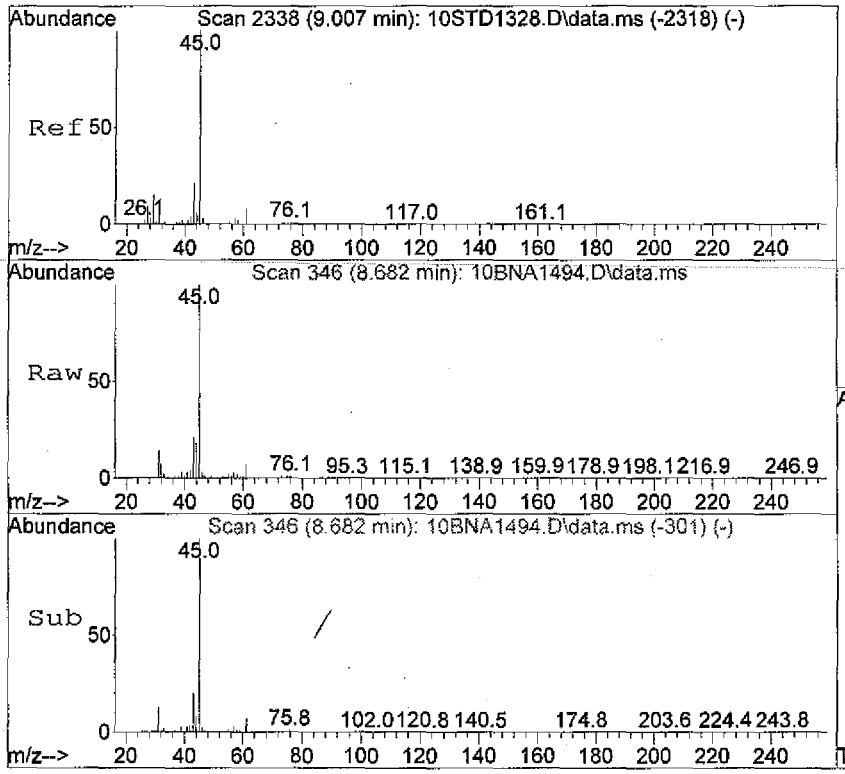
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1494.D
Acq On : 24 May 2012 6:52 pm
Operator : DG
Sample : B2E2402-BS1 Inst : Betty
Misc : DIMOCK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 12:48:14 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



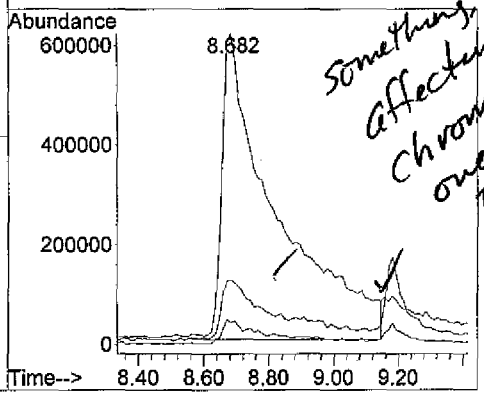




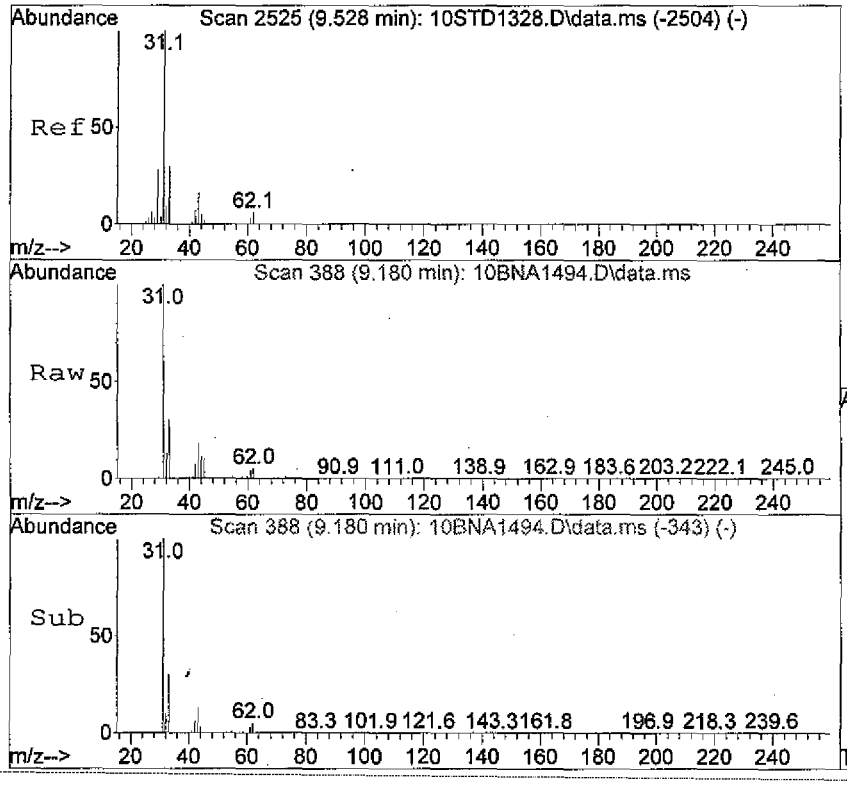
#1
Propylene Glycol
Concen: 9.177 ug/ml m
RT: 8.682 min Scan# 346
Delta R.T. 0.036 min
Lab File: 10BNA1494.D
Acq: 24 May 2012 6:52 pm

Tgt Ion: 45 Resp: 7080745

Ion	Ratio	Lower	Upper
45	100		
43	20.8	24.0	41.2#
61	7.0	0.0	16.3



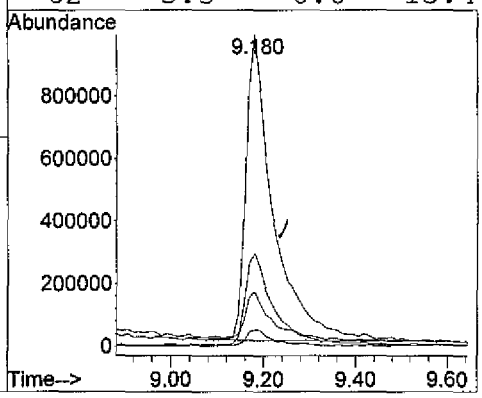
Something affecting chrom. once BS is shot.



#2
Ethylene Glycol
Concen: 9.429 ug/ml
RT: 9.180 min Scan# 388
Delta R.T. 0.036 min
Lab File: 10BNA1494.D
Acq: 24 May 2012 6:52 pm

Tgt Ion: 31 Resp: 4038557

Ion	Ratio	Lower	Upper
31	100		
33	29.7	24.1	42.3
43	15.6	18.4	36.6#
62	5.3	0.0	15.4



H_2O?

- WHAT IS BS SOLVENT?
- ANY OTHER CMPDS IN ALT SOURCE
- CHECK PH OF STD.

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1495.D
Acq On : 24 May 2012 7:10 pm
Operator : DG
Sample : B2E2402-MS1 Inst : Betty
Misc : DIMOCK
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 12:30:54 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Qvalue	Dev(Min)
Target Compounds						
1) Propylene Glycol	8.682	45	7586932m	9.833 ug/ml		
2) Ethylene Glycol	9.180	31	4765589	11.126 ug/ml#	88	

98.3%
111%

(#) = qualifier out of range (m) = manual integration (+) = signals summed

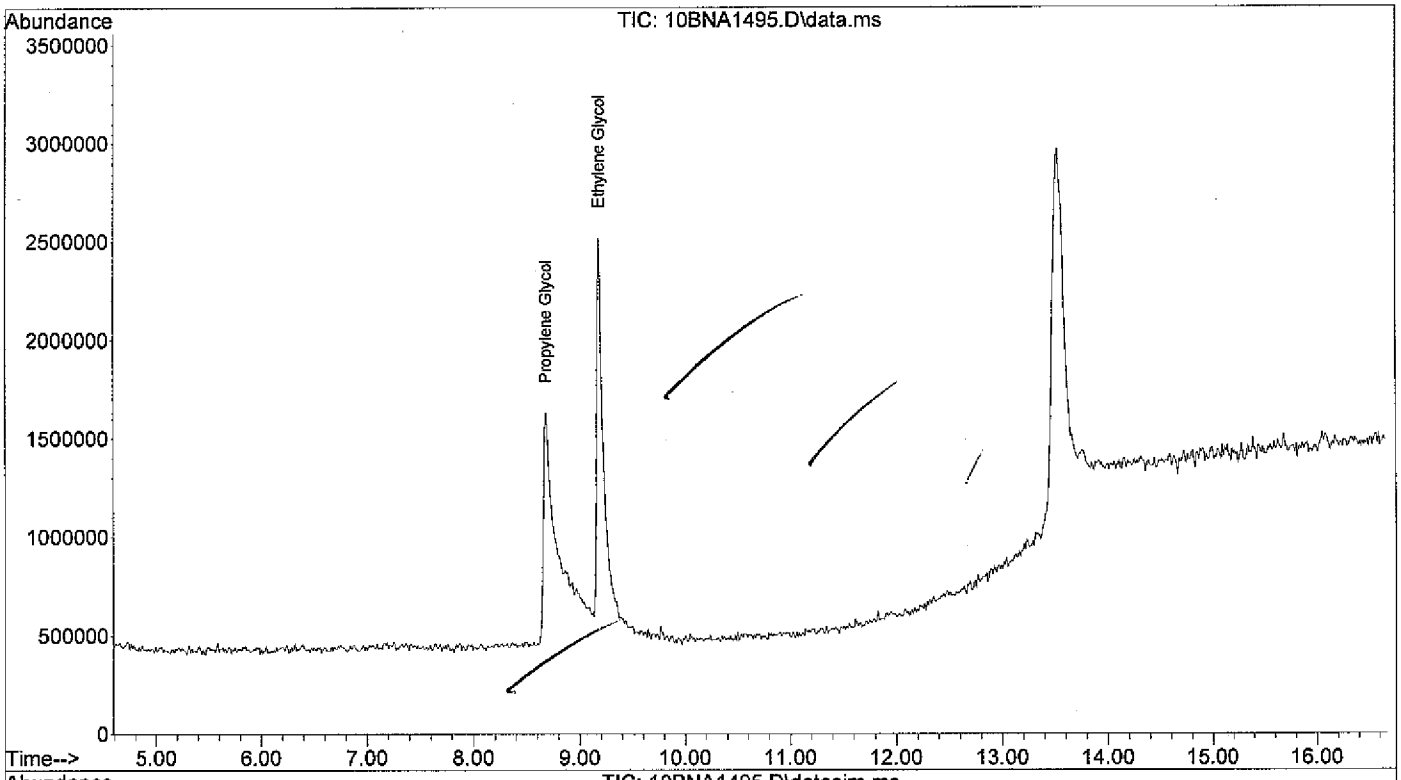
Spiked at low conc due to instrument problems to ensure at least RL of 10ppm could be used

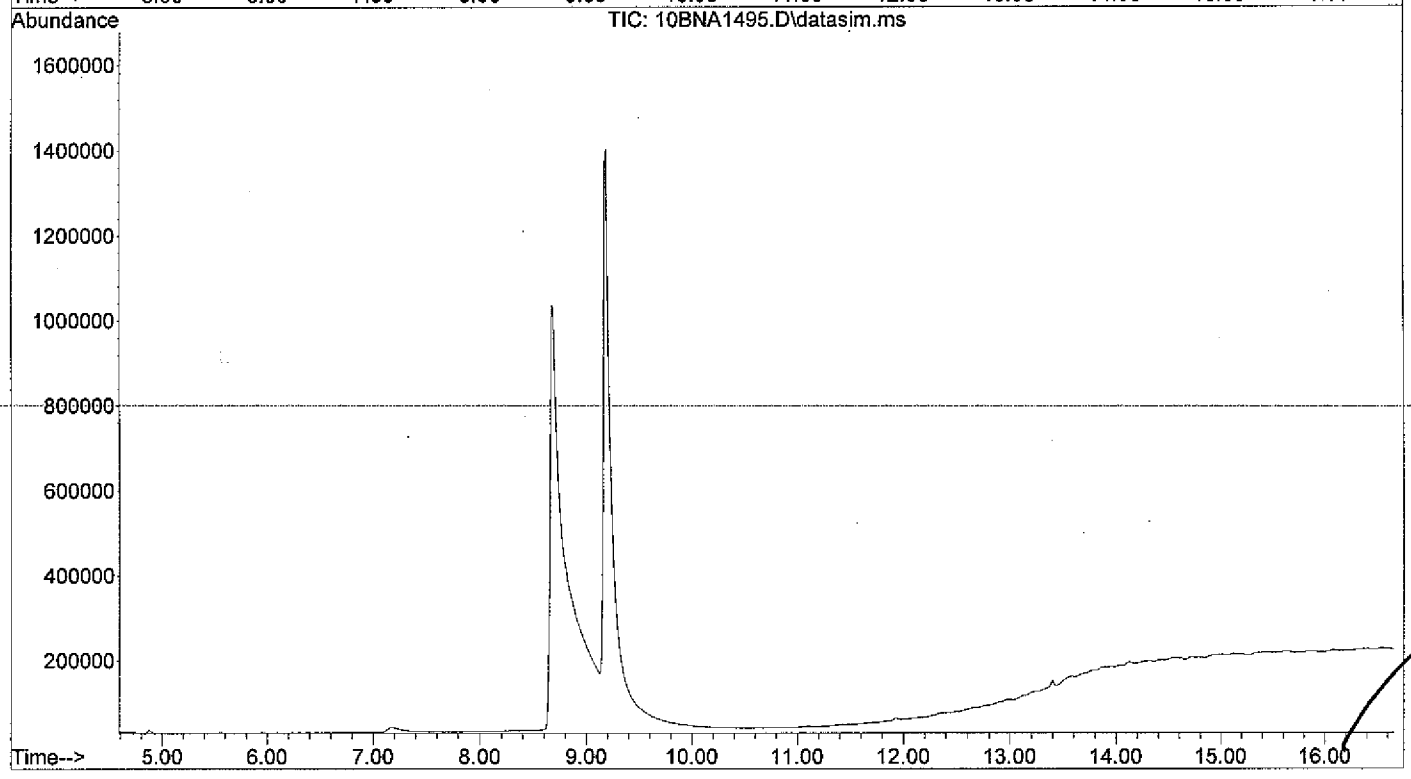
MS1

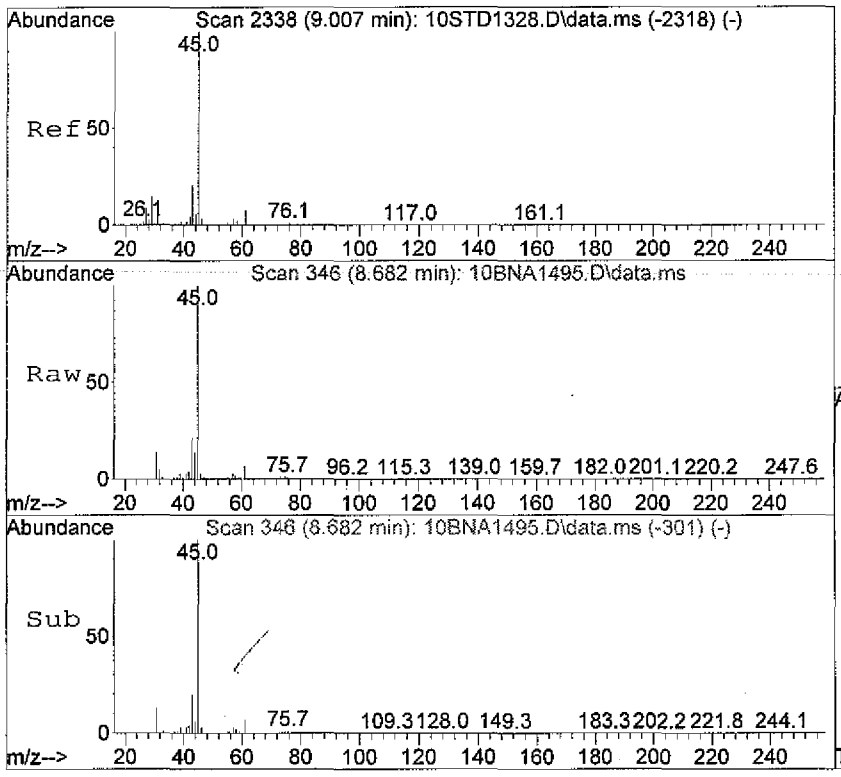
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1495.D
Acq On : 24 May 2012 7:10 pm
Operator : DG
Sample : B2E2402-MS1 Inst : Betty
Misc : DIMOCK
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 12:30:54 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



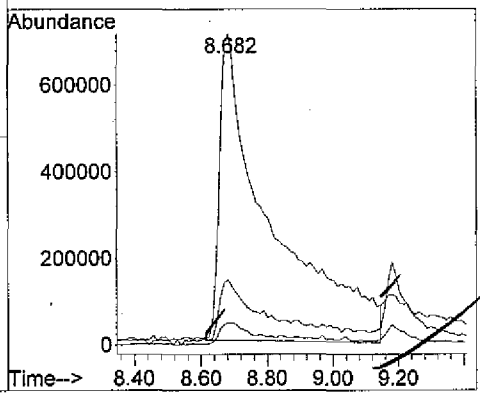


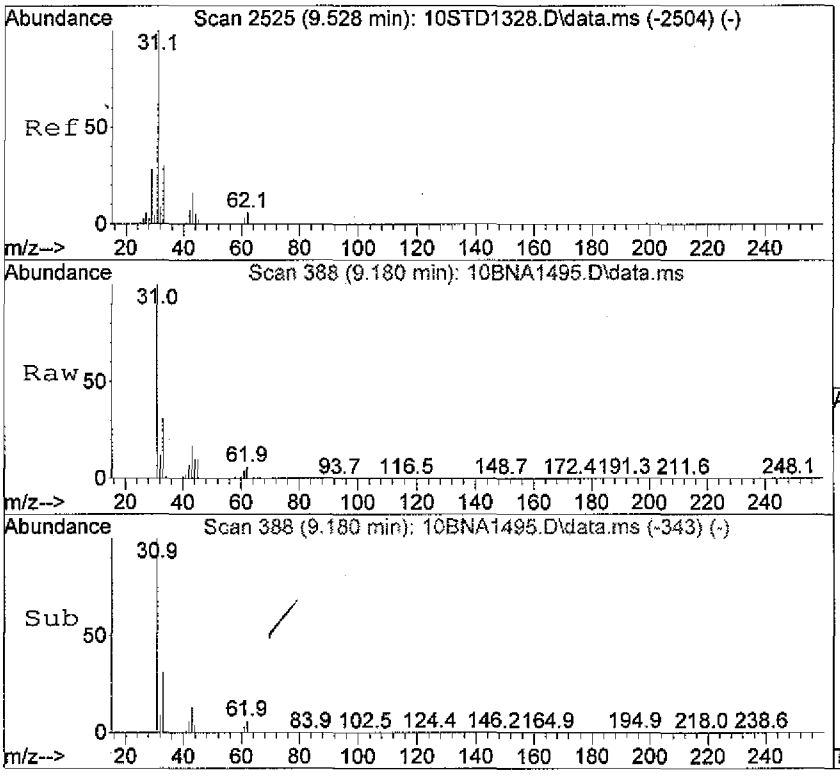


#1
Propylene Glycol
Concen: 9.833 ug/ml m
RT: 8.682 min Scan# 346
Delta R.T. 0.036 min
Lab File: 10BNA1495.D
Acq: 24 May 2012 7:10 pm

Tgt Ion: 45 Resp: 7586932

Ion	Ratio	Lower	Upper
45	100		
43	20.9	24.0	41.2# ok
61	7.2	0.0	16.3

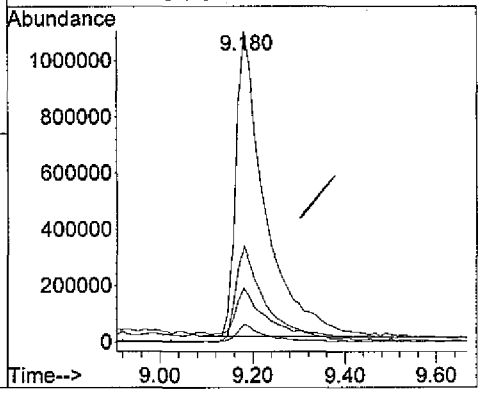




#2
Ethylene Glycol
Concen: 11.126 ug/ml
RT: 9.180 min Scan# 388
Delta R.T. 0.036 min
Lab File: 10BNA1495.D
Acq: 24 May 2012 7:10 pm

Tgt Ion: 31 Resp: 4765589

Ion	Ratio	Lower	Upper
31	100		
33	30.9	24.1	42.3
43	15.2	18.4	36.6# ok
62	5.5	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1496.D
Acq On : 24 May 2012 7:29 pm
Operator : DG
Sample : B2E2402-MSD1 Inst : Betty
Misc : DIMOCK
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 12:31:47 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Target Compounds							
1) Propylene Glycol	8.694	45	6941295m	8.996	ug/ml		90%
2) Ethylene Glycol	9.180	31	4506829	10.522	ug/ml#	88	105%

(#) = qualifier out of range (m) = manual integration (+) = signals summed

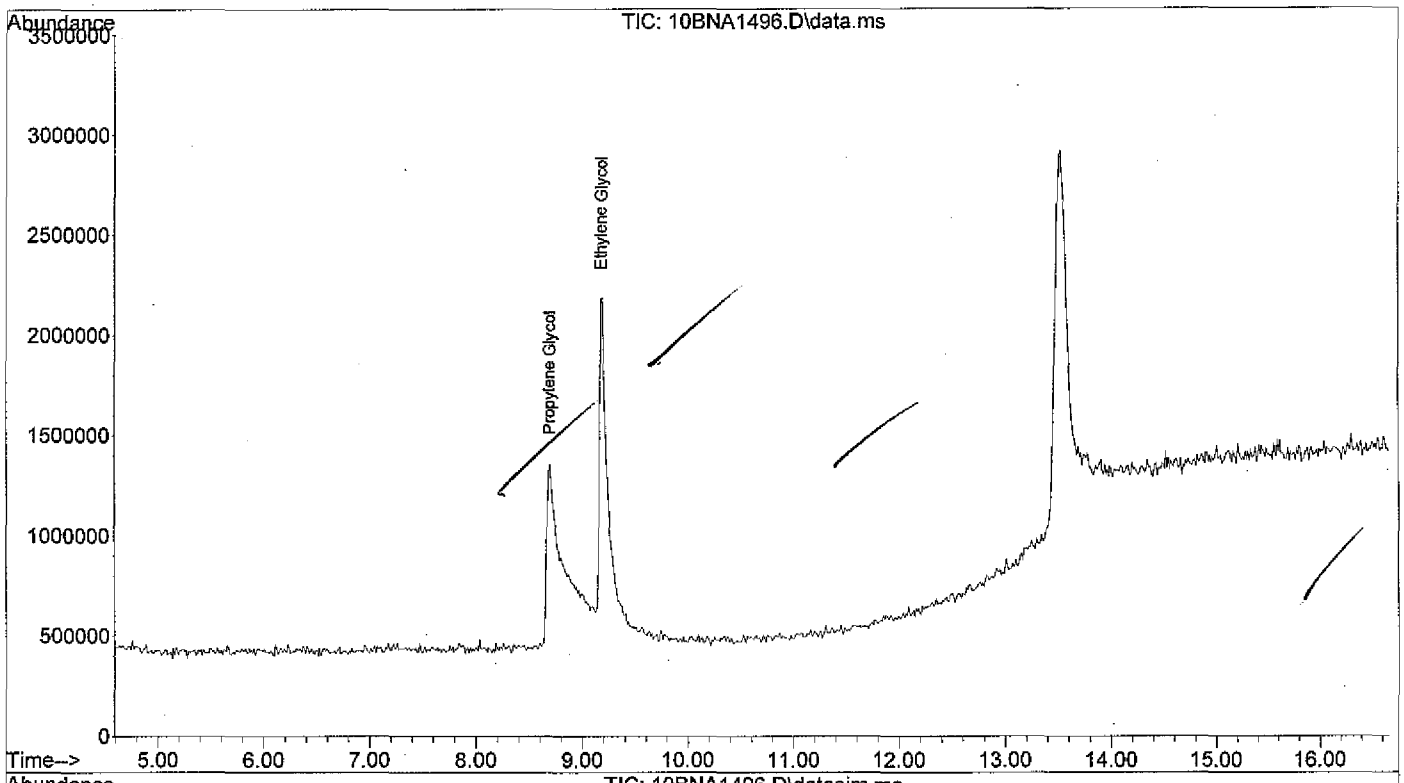
MSD1

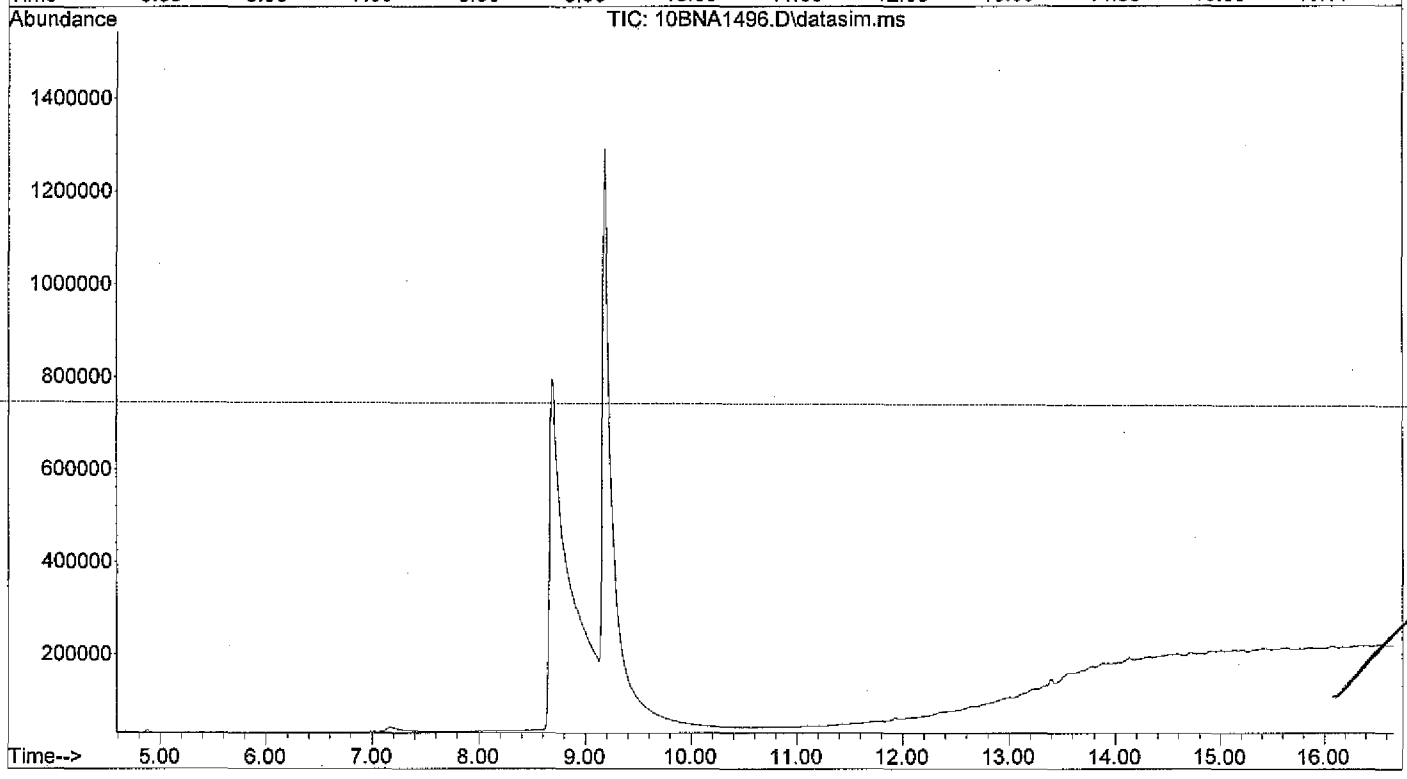
X1

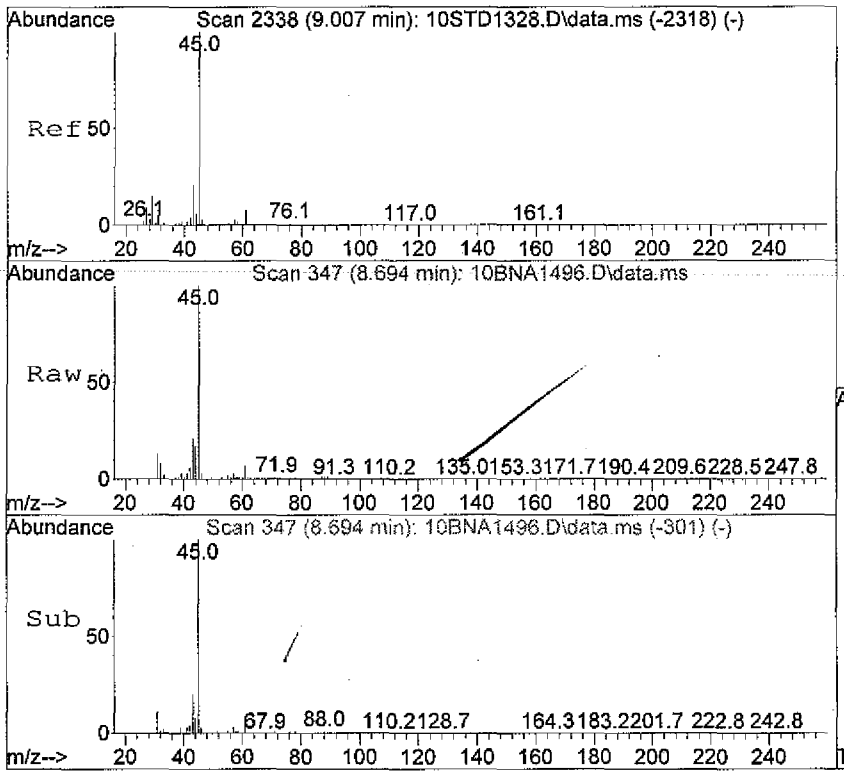
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10BNA1496.D
Acq On : 24 May 2012 7:29 pm
Operator : DG
Sample : B2E2402-MSD1 Inst : Betty
Misc : DIMOCK
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 12:31:47 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



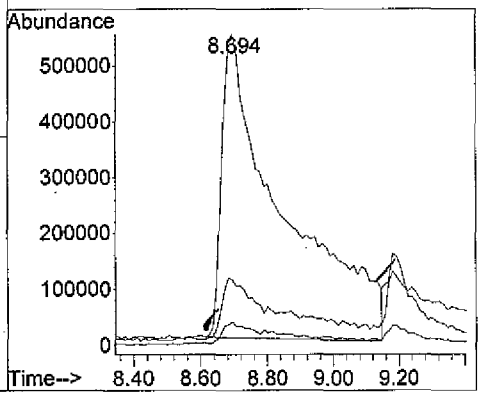


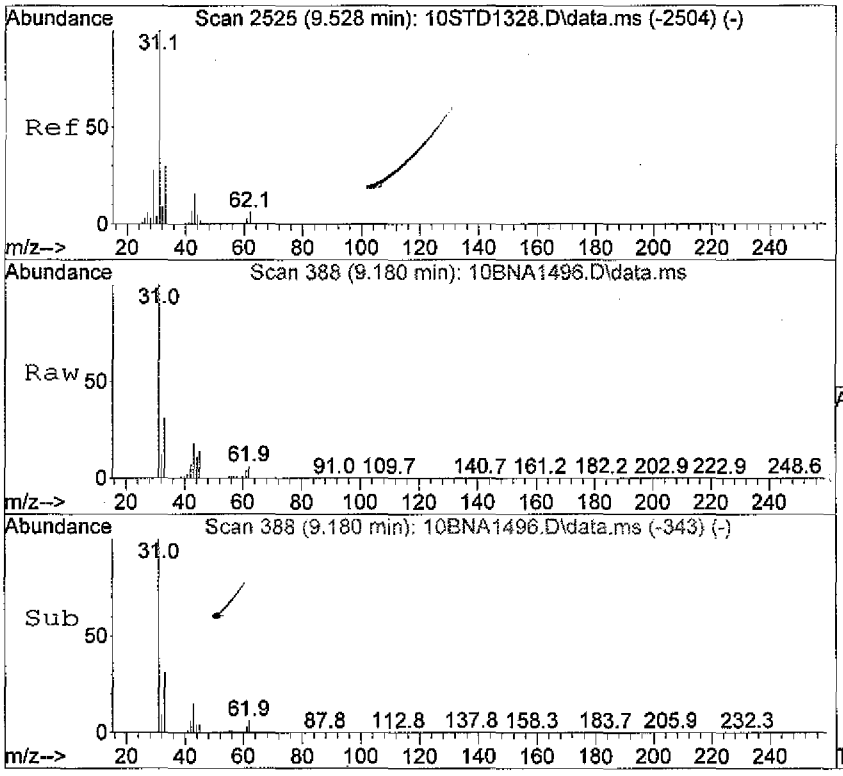


#1
Propylene Glycol
Concen: 8.996 ug/ml m
RT: 8.694 min Scan# 347
Delta R.T. 0.048 min
Lab File: 10BNA1496.D
Acq: 24 May 2012 7:29 pm

Tgt Ion: 45 Resp: 6941295

Ion	Ratio	Lower	Upper
45	100		
43	21.0	24.0	41.2#
61	7.4	0.0	16.3

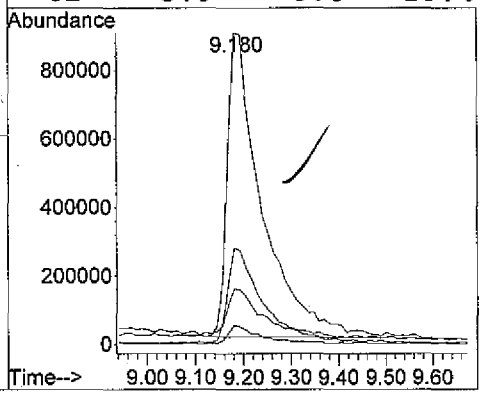




#2
Ethylene Glycol
Concen: 10.522 ug/ml
RT: 9.180 min Scan# 388
Delta R.T. 0.036 min
Lab File: 10BNA1496.D
Acq: 24 May 2012 7:29 pm

Tgt Ion: 31 Resp: 4506829

Ion	Ratio	Lower	Upper
31	100		
33	30.9	24.1	42.3
43	15.5	18.4	36.6#
62	5.9	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1506.D
Acq On : 25 May 2012 9:14 am
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Betty
Misc : 2052306
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 12:38:04 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

83.5%

Compound	R.T.	QIon	Response	Conc Units	Qvalue	Dev(Min)
Target Compounds						
1) Propylene Glycol	8.694	45	16107001m	20.876 ug/ml	passes	
2) Ethylene Glycol	9.181	31	10378915	24.232 ug/ml#	passes	8

20.8

24.23 96.9%

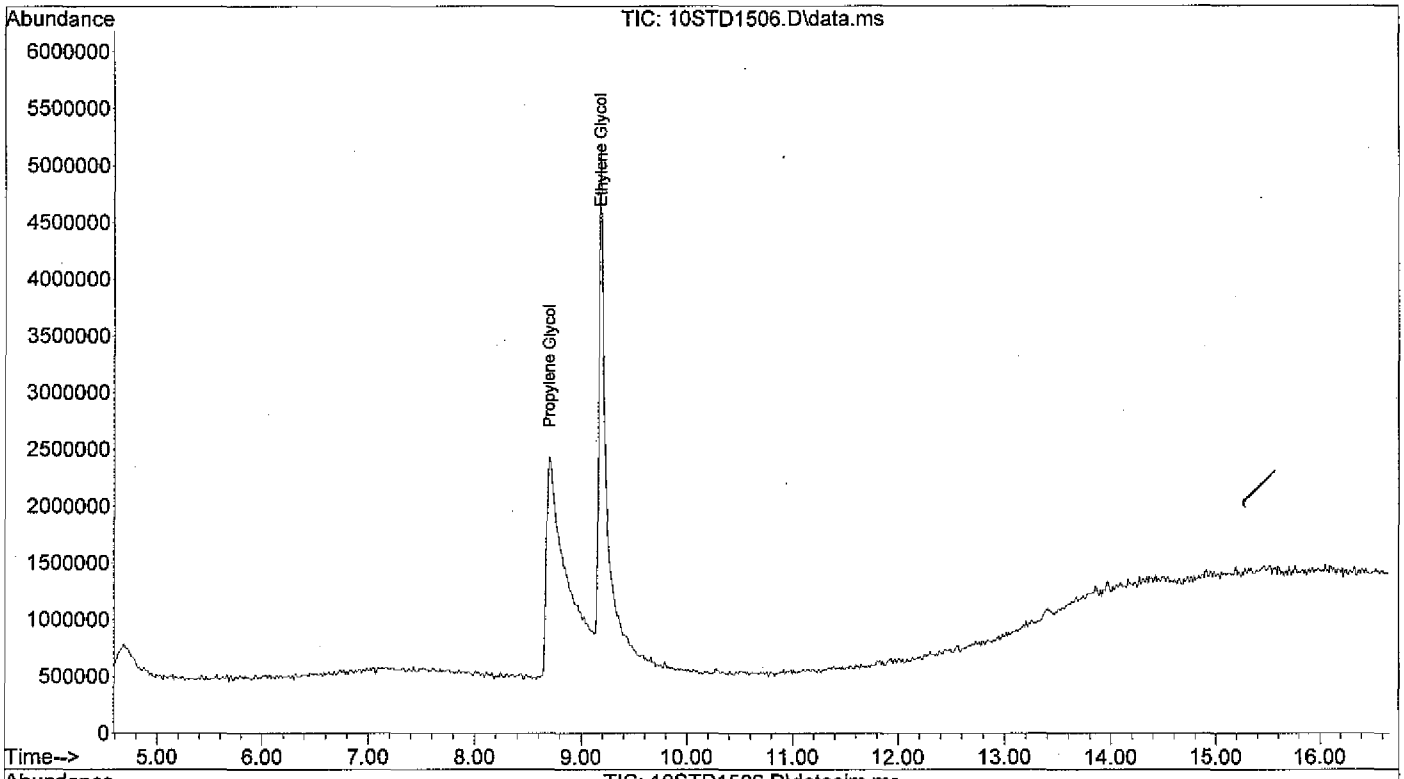
(#) = qualifier out of range (m) = manual integration (+) = signals summed

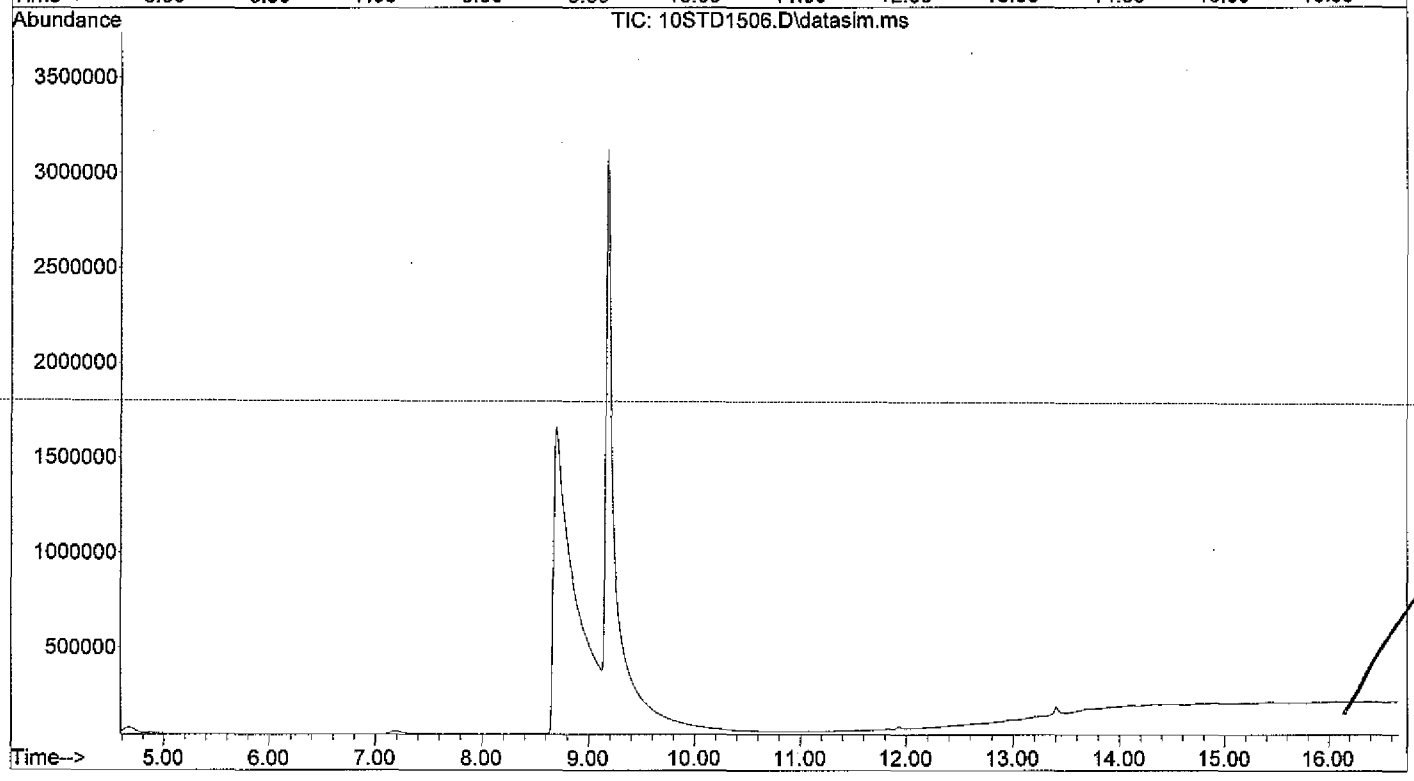
- end CC, analyzed next morning due to sequence error

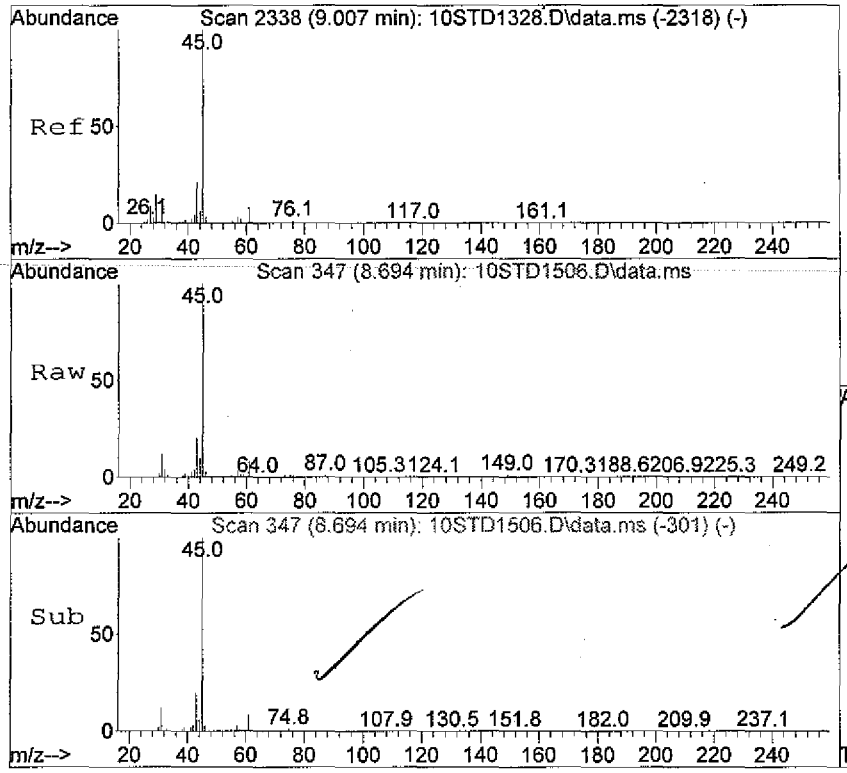
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1506.D
Acq On : 25 May 2012 9:14 am
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Betty
Misc : 2052306
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 12:38:04 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration







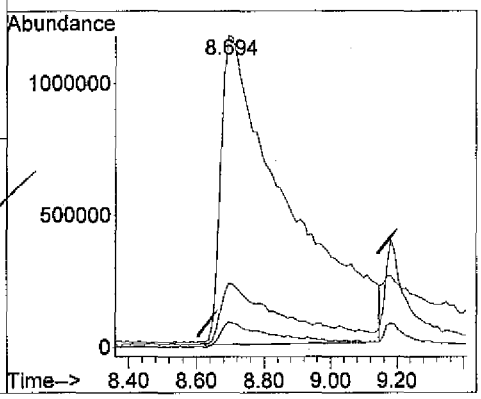
#1
Propylene Glycol
Concen: 20.876 ug/ml m
RT: 8.694 min ~~Scan# 347~~
Delta R.T. 0.048 min
Lab File: 10STD1506.D
Acq: 25 May 2012 9:14 am

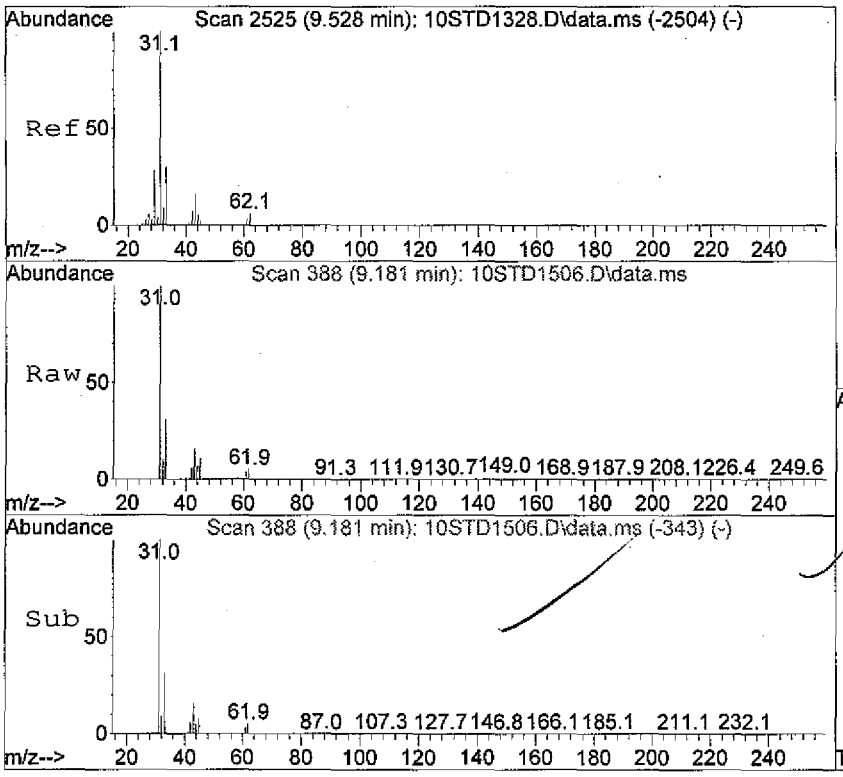
RT SHIFT

Tgt Ion: 45 Resp:16107002

Ion	Ratio	Lower	Upper
45	100		
43	20.5	24.0	41.2#
61	8.2	0.0	16.3

OK





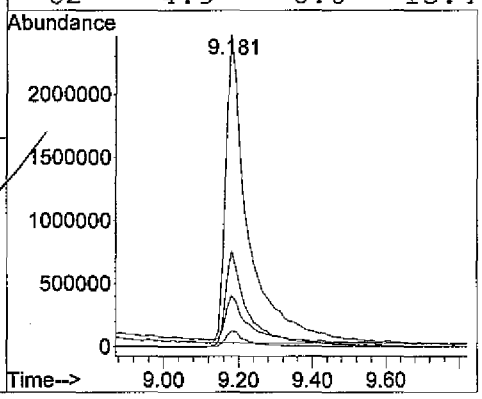
#2
Ethylene Glycol
Concen: 24.232 ug/ml
RT: 9.181 min Scan# 388
Delta R.T. 0.036 min
Lab File: 10STD1506.D
Acq: 25 May 2012 9:14 am

RT SHIFT

Tgt Ion: 31 Resp:10378915

Ion	Ratio	Lower	Upper
31	100		
33	30.8	24.1	42.3
43	14.8	18.4	36.6#
62	4.9	0.0	15.4

OK



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1507.D
Acq On : 25 May 2012 9:34 am
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Betty
Misc : 2052309
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 12:38:57 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	9.323	45	171401 m	2.221	ug/ml	111%
2) Ethylene Glycol	9.406	31	90712 m	2.118	ug/ml	

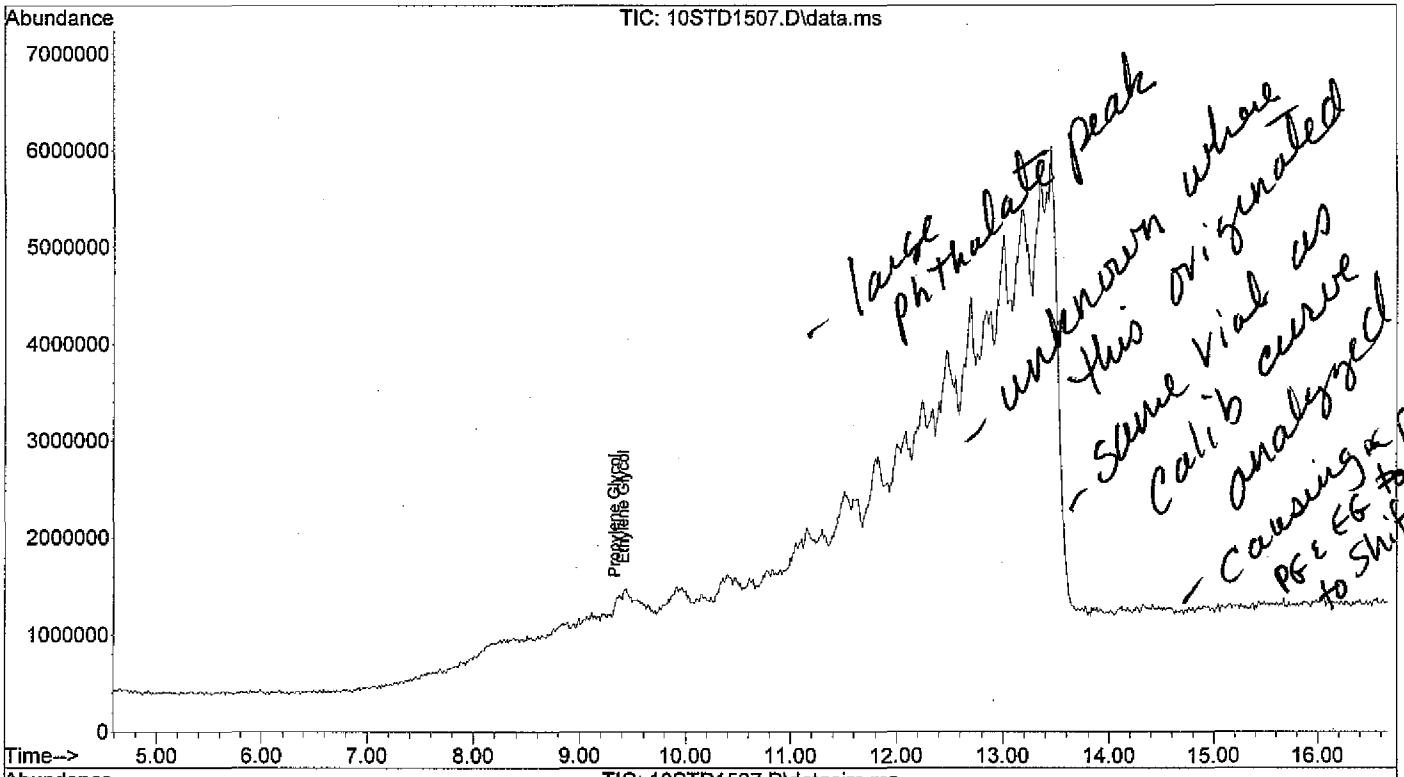
(#) = qualifier out of range (m) = manual integration (+) = signals summed

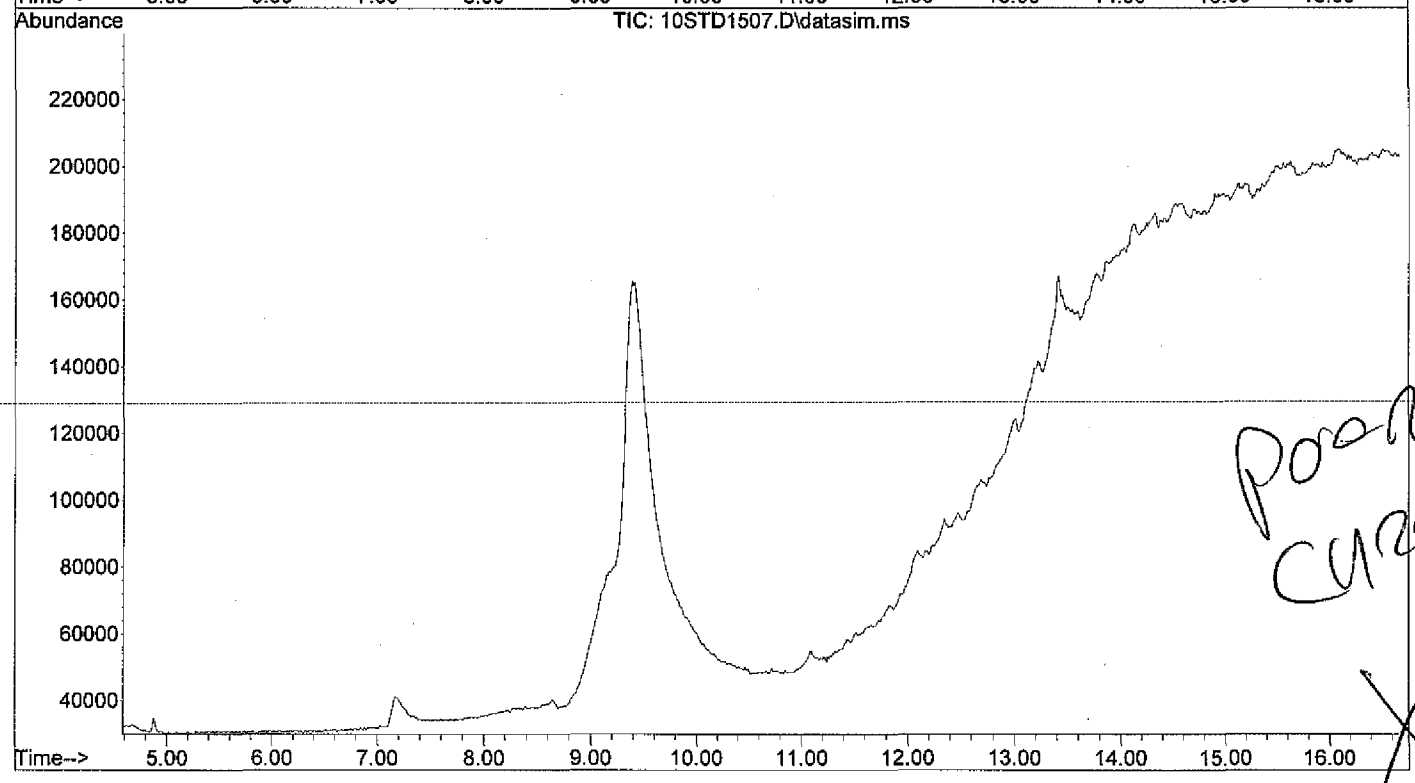
- CC analyzed next day due to sequence error.

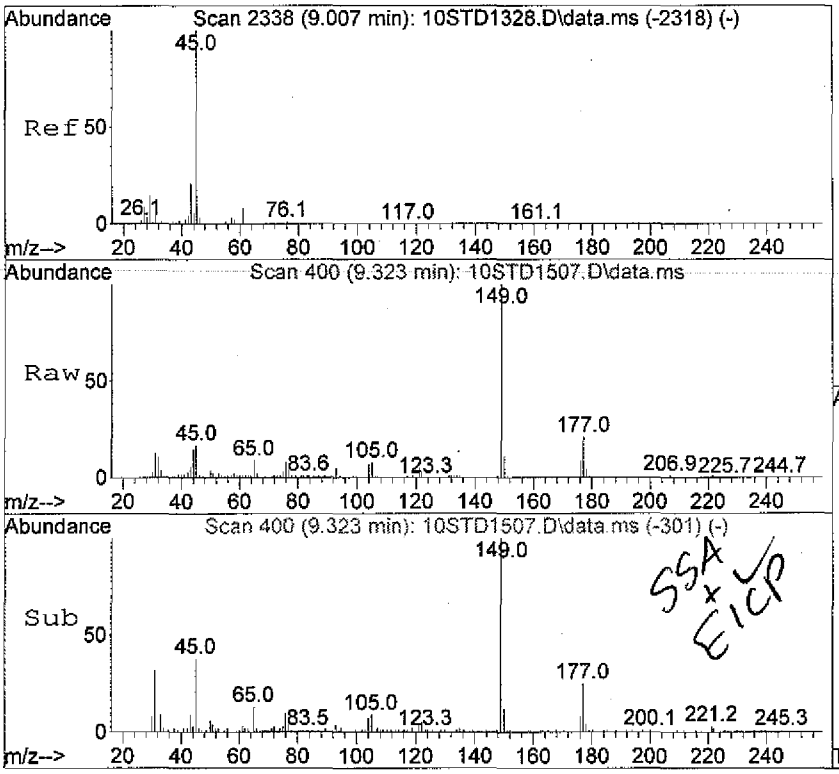
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1507.D
Acq On : 25 May 2012 9:34 am
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Betty
Misc : 2052309
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 12:38:57 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration







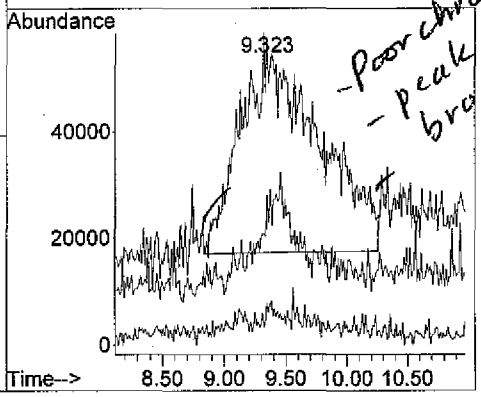
SSA x EICP

#1
Propylene Glycol
Concen: 2.221 ug/ml
RT: 9.323 min Scan# 400
Delta R.T. 0.677 min
Lab File: 10STD1507.D
Acq: 25 May 2012 9:34 am

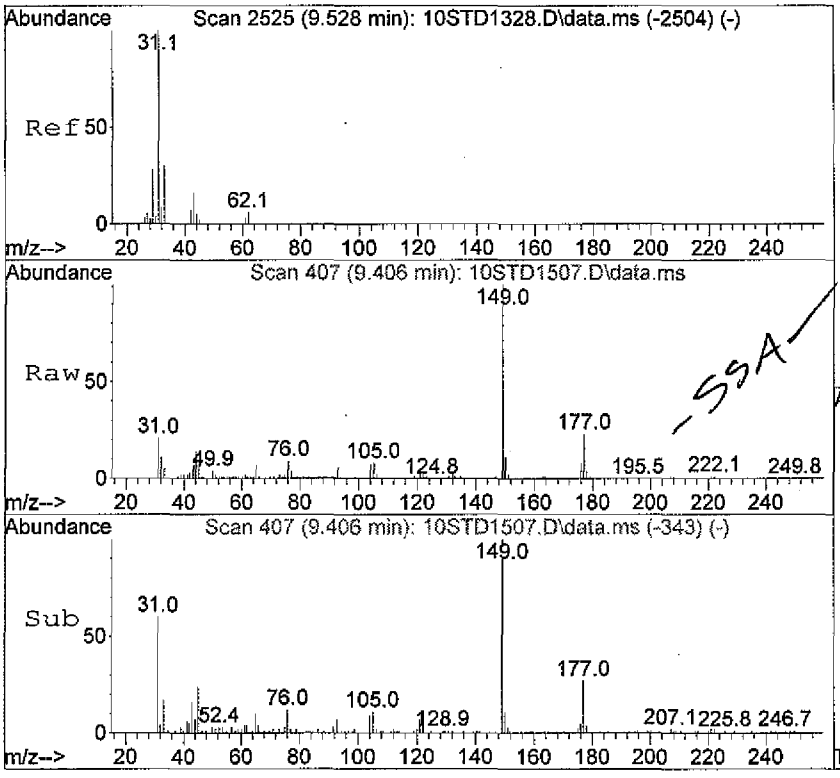
large shift

Tgt Ion: 45 Resp: 1714016

Ion	Ratio	Lower	Upper
45	100		
43	35.6	24.0	41.2
61	5.8	0.0	16.3



- Poor chrom
- peak broadening



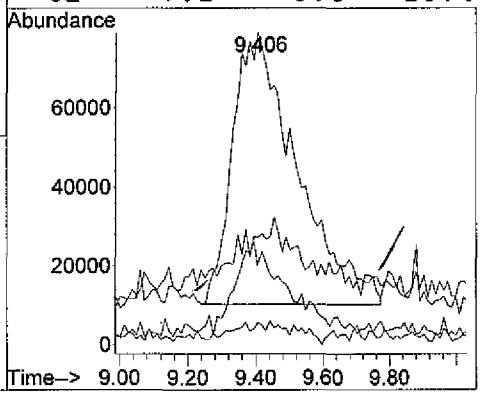
SSA

#2
Ethylene Glycol
Concen: 2.118 ug/ml
RT: 9.406 min Scan# 407
Delta R.T. 0.261 min
Lab File: 10STD1507.D
Acq: 25 May 2012 9:34 am

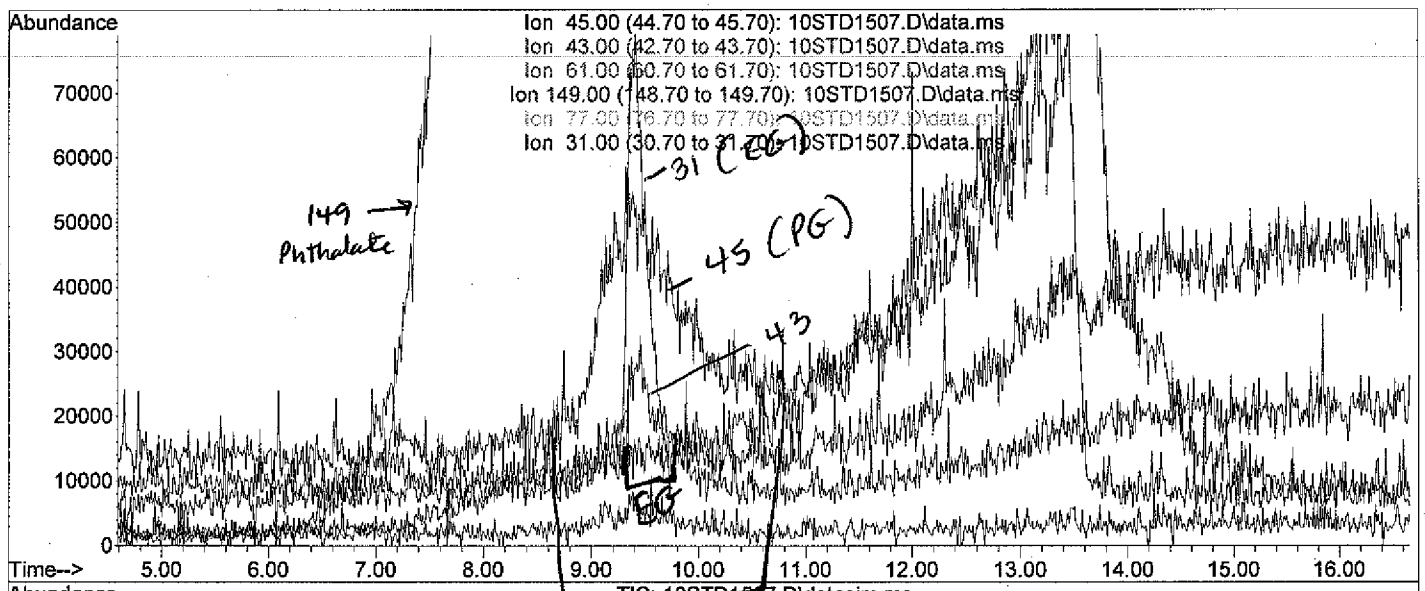
large shift

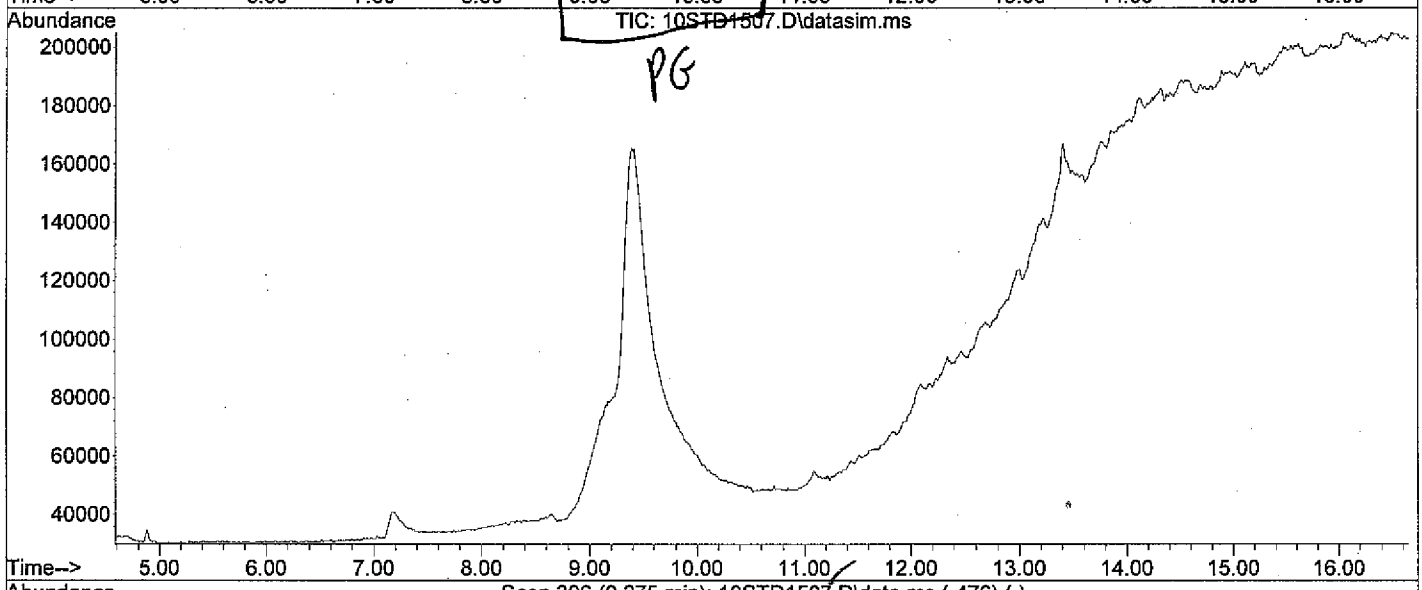
Tgt Ion: 31 Resp: 907121

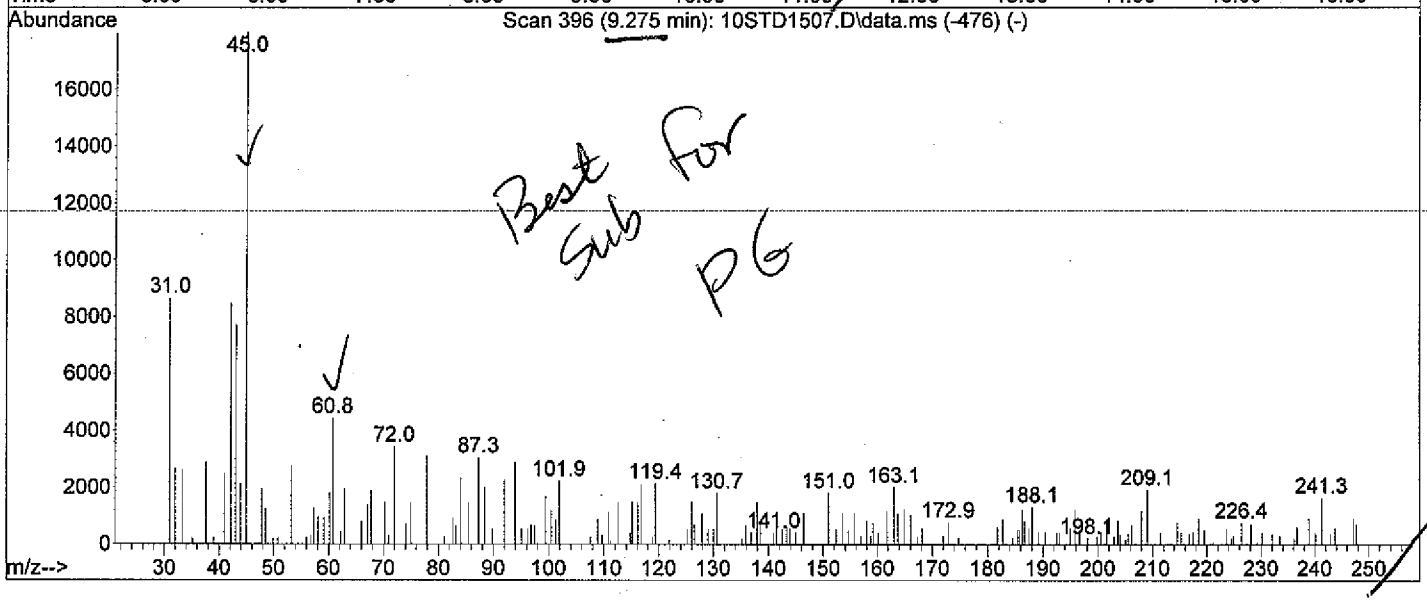
Ion	Ratio	Lower	Upper
31	100		
33	25.5	24.1	42.3
43	34.5	18.4	36.6
62	7.1	0.0	15.4



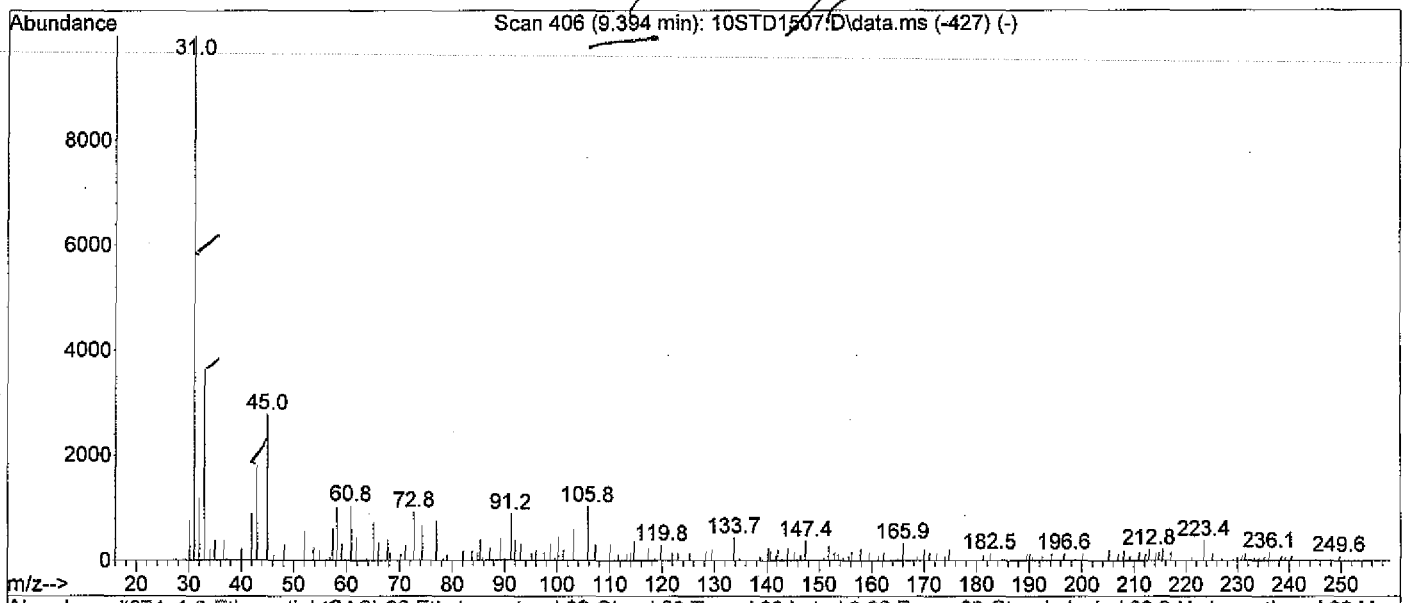
File :D:\1\DATA\12_0524B\10STD1507.D
Operator : DG
Acquired : 25 May 2012 9:34 am using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 2 UG/ML GLYCOLS
Misc Info : 2052309
Vial Number: 3

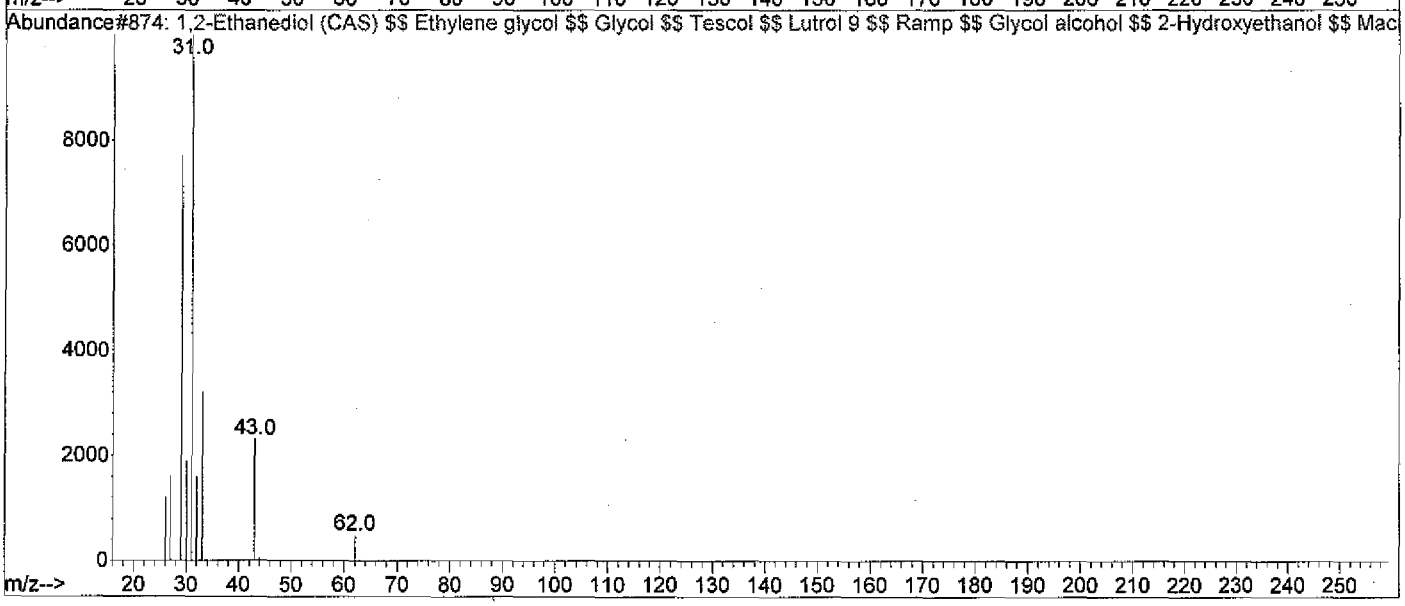






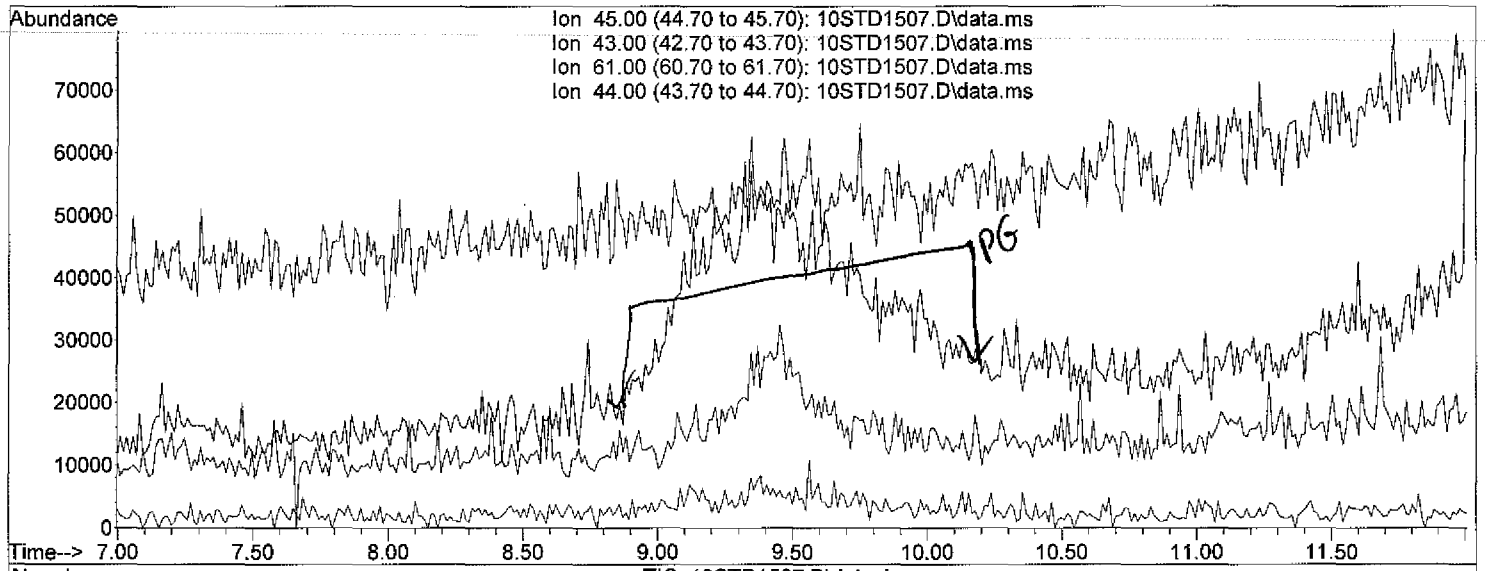
Library Searched : \\BIGSALLY\Database\wiley7n.l
Quality : 28
ID : 1,2-Ethanediol (CAS) $$ Ethylene glycol $$ Glycol $$ Tescol $$ Lutrol 9 $$ Ramp $$ Glycol alcohol $$ 2-Hydroxyethanol $$ Macrogol 400 BPC $$ Ethylene alcohol $$ Ethylene dihydrate $$ Monoethylene glycol $$ 1,2-Dihydroxyethane $$ Fridex $$ Ucar 17 $$ Dowth

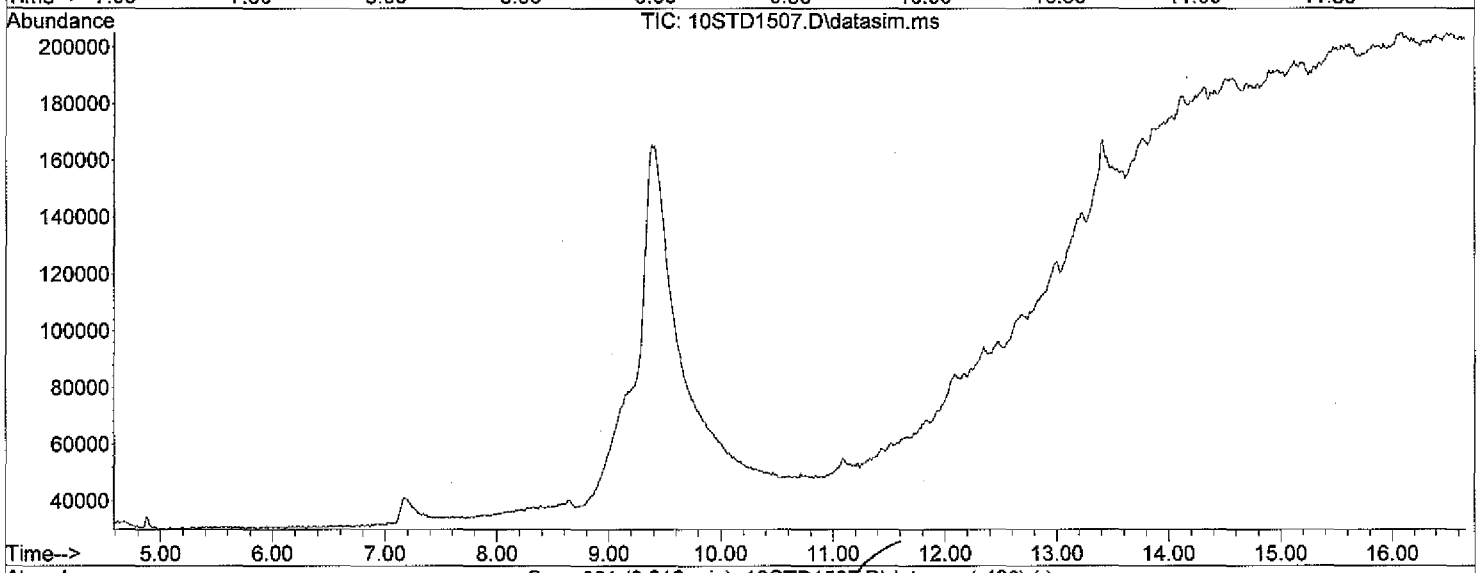


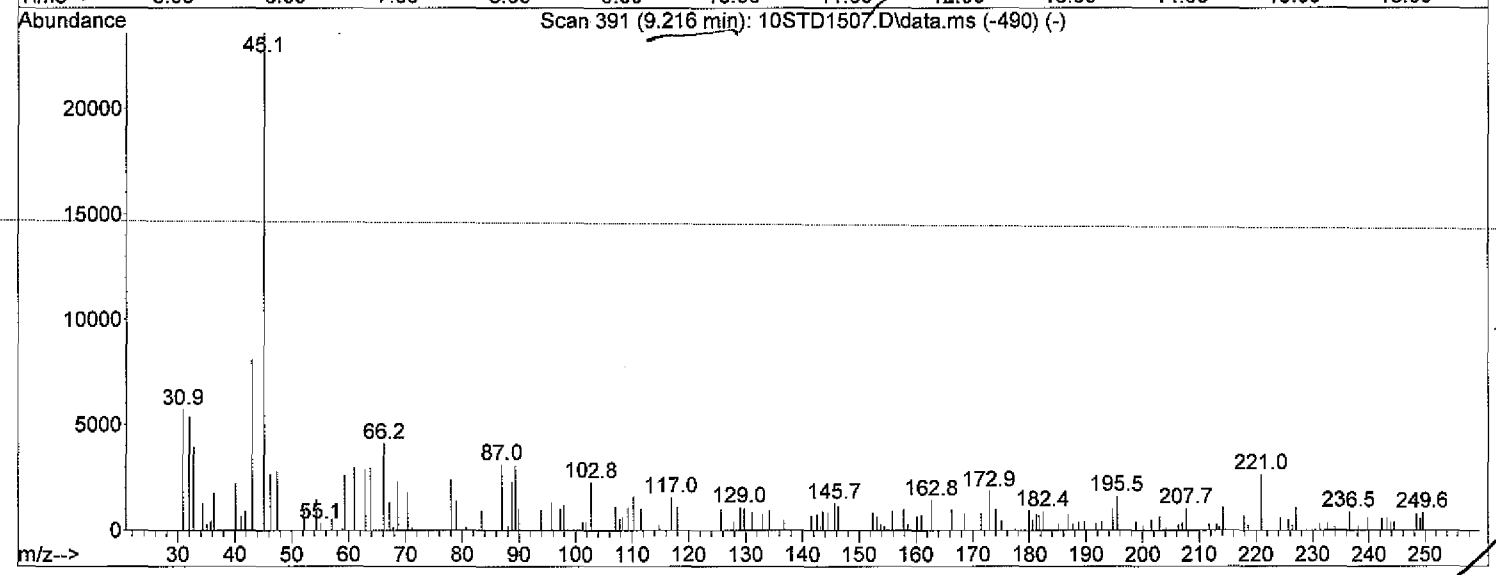


File :D:\1\DATA\12_0524B\10STD1507.D
Operator : DG
Acquired : 25 May 2012 9:34 am using AcqMethod GLYCOL.M
Instrument : Betty
Sample Name: 2 UG/ML GLYCOLS
Misc Info : 2052309
Vial Number: 3

PG EICP







Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1508.D
Acq On : 25 May 2012 9:55 am
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Betty
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 12:39:25 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Qvalue	Dev(Min)
Target Compounds							
1) Propylene Glycol	8.670	45	2593996m	3.362	ug/ml		
2) Ethylene Glycol	9.180	31	1343179	3.136	ug/ml#	86	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0.6

Qvalue too low

62.7%

4-6 ug/ml QC limits

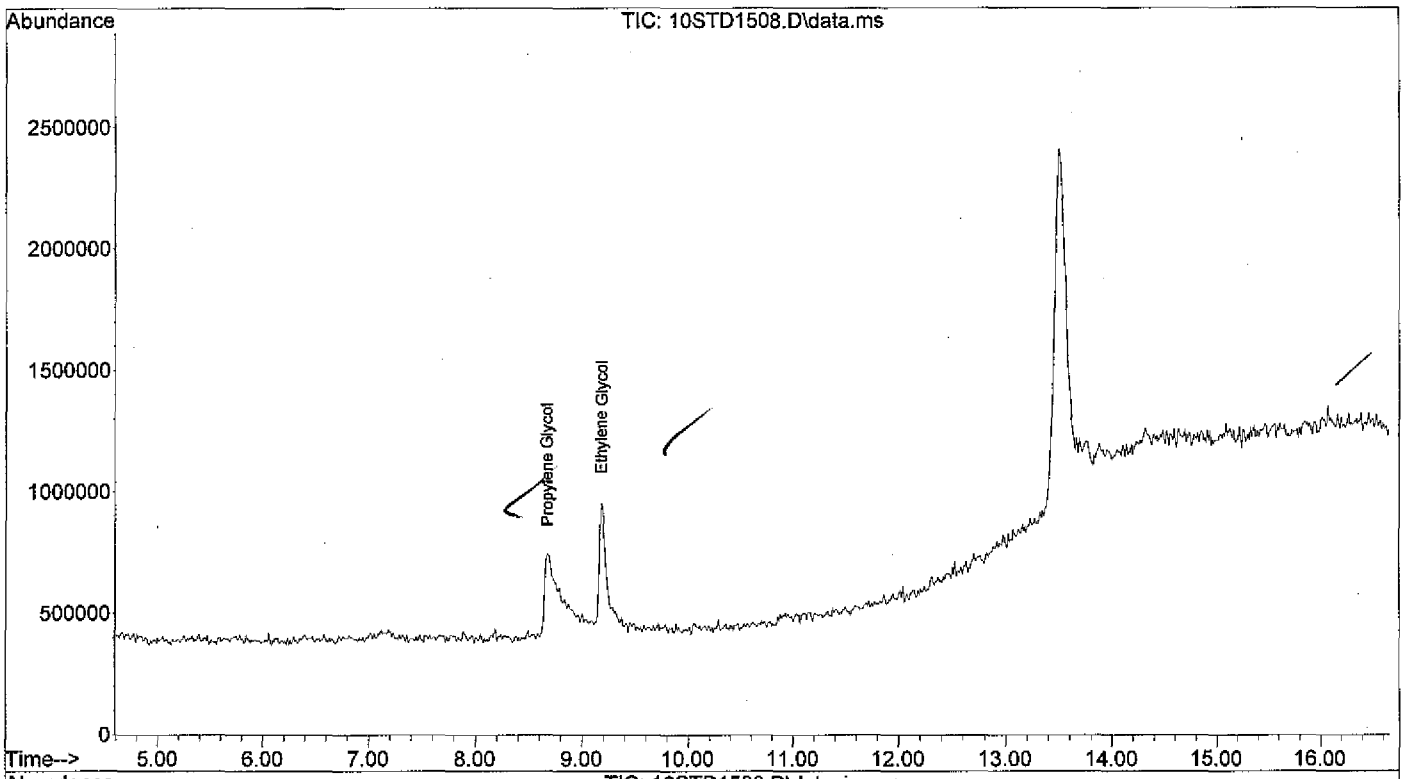
> 1/2 area of 5 ug/ml ical pt

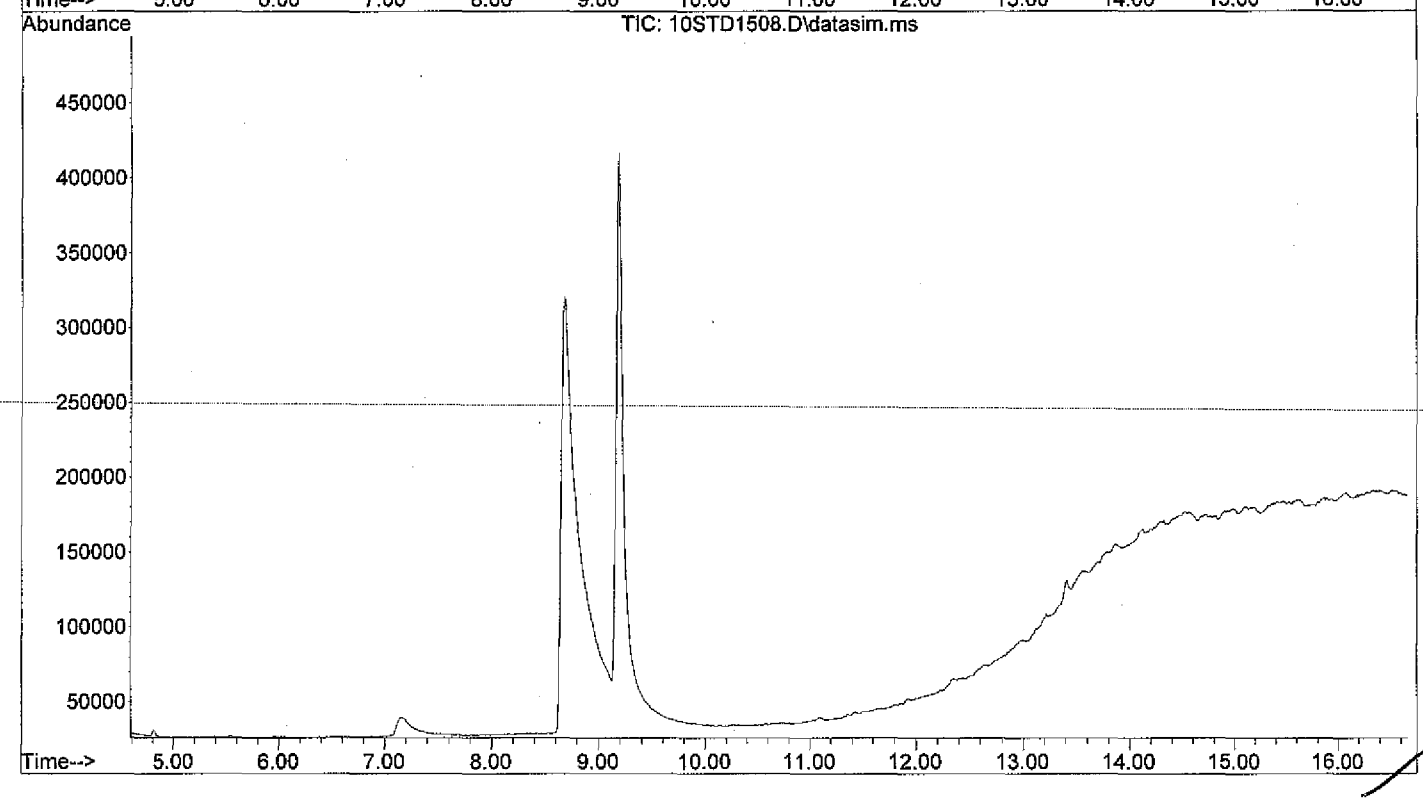
Low REC

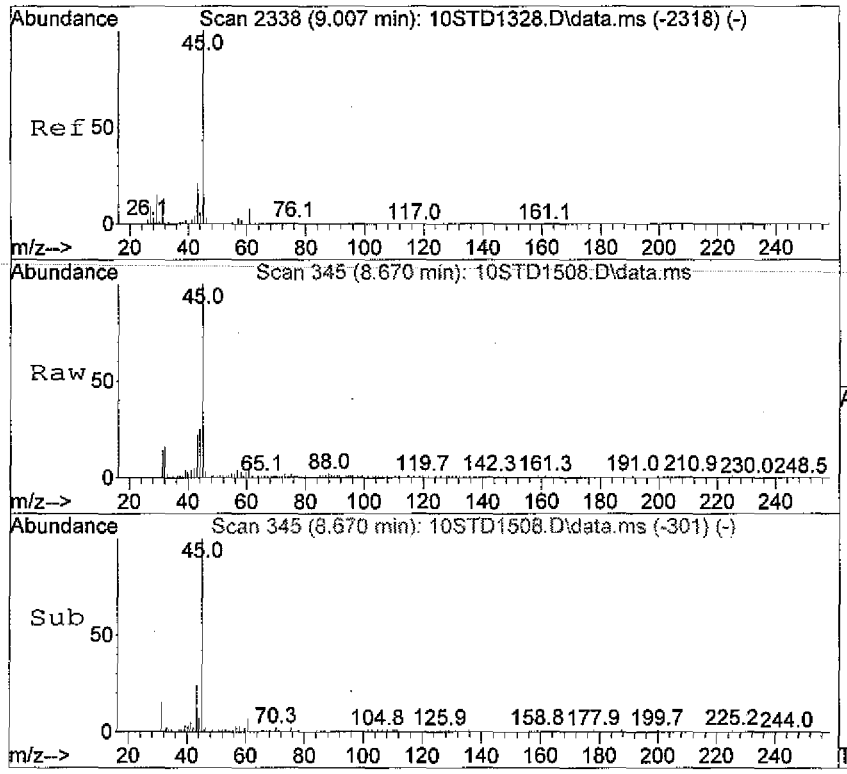
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1508.D
Acq On : 25 May 2012 9:55 am
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Betty
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 12:39:25 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



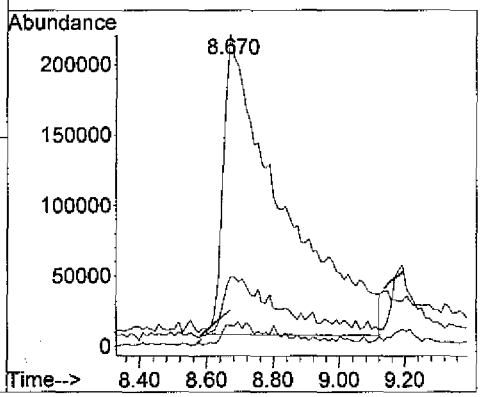


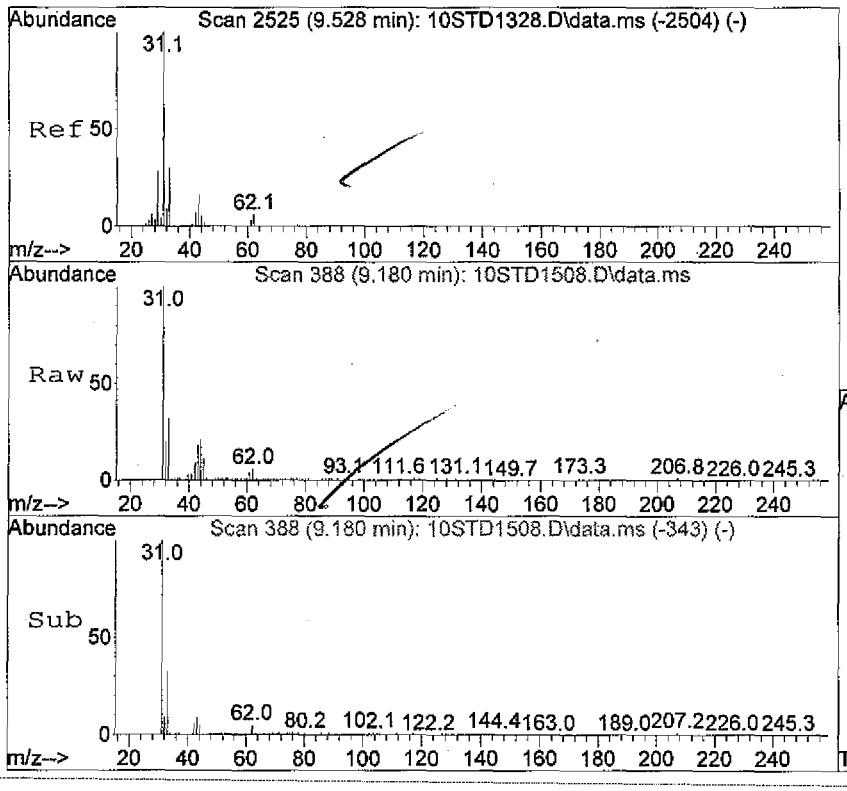


#1
Propylene Glycol
Concen: 3.362 ug/ml m
RT: 8.670 min Scan# 345
Delta R.T. 0.024 min
Lab File: 10STD1508.D
Acq: 25 May 2012 9:55 am

Tgt Ion: 45 Resp: 2593996

Ion	Ratio	Lower	Upper
45	100		
43	22.4	24.0	41.2 ok
61	6.7	0.0	16.3

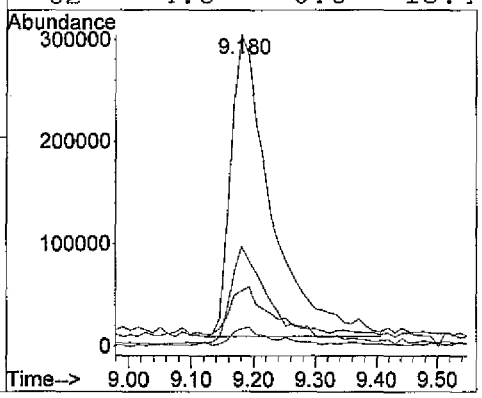




#2
Ethylene Glycol
Concen: 3.136 ug/ml
RT: 9.180 min Scan# 388
Delta R.T. 0.036 min
Lab File: 10STD1508.D
Acq: 25 May 2012 9:55 am

Tgt Ion: 31 Resp: 1343179

Ion	Ratio	Lower	Upper
31	100		
33	31.8	24.1	42.3
43	14.5	18.4	36.6 ok
62	4.8	0.0	15.4



Response Factor Report Betty

CALIBRATION RANGE:
PG - 1 ug/mL to 50 ug/mL
EG - 1 ug/mL to 100 ug/mL

Method Path : D:\1\METHODS\
Method File : GLYCOLS 052412..M
Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
Last Update : Thu May 31 12:28:27 2012
Response Via : Initial Calibration

Calibration Files
~~200 =10STD1463.D~~ ~~150 =10STD1462.D~~ 100 =10STD1490.D 50 =10STD1489.D 25 =10STD1488.D
10 =10STD1487.D 5 =10STD1486.D 2 =10STD1485.D 1 =10STD1484.D ~~0.5 =10STD1453.D~~

Compound	~~200~~	~~150~~	100	50	25	10	5	2	1	~~0.5~~	Avg	%RSD
1) Propylene Glycol			6.178	8.653	8.738	8.489	7.680	5.555			7.716 E5	14.47
2) Ethylene Glycol			3.118	4.689	4.700	4.476	4.681	4.332	3.986		4.283 E5	13.42

(#) = Out of Range

GLYCOLS 052412..M Thu May 31 14:07:07 2012

<20% ok AVG RF F.T.

All source ok

- Std's at 0.5, 150 & 200 not included. 150 & 200 had saturation. 0.5 not analyzed.

ICM UNID 6/6/12 M

DIM0096095

DIM0096011

Calibration Report Betty

Method Path : D:\1\METHODS\
Method File : GLYCOLS 052412..M
Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
Last Update : Thu May 31 12:28:27 2012
Response Via : Initial Calibration

Calibration Files
200 =10STD1463 150 =10STD1462 100 =10STD1490 50 =10STD1489 25 =10STD1488
10 =10STD1487 5 =10STD1486 2 =10STD1485 1 =10STD1484 0.5 =10STD1453

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	Propylene Glycol	Avg	-----	7.7156 e5	-----	0.1447
2)	Ethylene Glycol	Avg	-----	4.2831 e5	-----	0.1342

GLYCOLS 052412..M Thu May 31 12:29:23 2012

AVG RF

Calibration Status Report Betty

Method Path : D:\1\METHODS\
Method File : GLYCOLS 052412..M
Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:24:33 2012
Last Update : Thu May 31 12:28:27 2012
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	~~200~~	~~200~~	~~0~~	~~D:\1\DATA\12_0523\10STD1463.D~~ DC
2	~~150~~	~~150~~	~~0~~	~~D:\1\DATA\12_0523\10STD1462.D~~ DC
3	100	100	0	D:\1\DATA\12_0524B\10STD1490.D
4	50	50	0	D:\1\DATA\12_0524B\10STD1489.D
5	25	25	0	D:\1\DATA\12_0524B\10STD1488.D
6	10	10	0	D:\1\DATA\12_0524B\10STD1487.D
7	5	5	0	D:\1\DATA\12_0524B\10STD1486.D
8	2	2	0	D:\1\DATA\12_0524B\10STD1485.D
9	1	1	0	D:\1\DATA\12_0524B\10STD1484.D
10	~~0.5~~	~~1~~	~~0~~	~~D:\1\DATA\12_0523\10STD1453.D~~ DC

points are not included in curve.

#	ID	Update Time	Quant Time	Acquisition Time
1	200	May 23 12:56 2012	May 23 12:56 2012	23 May 2012 10:34 am
2	150	May 23 10:45 2012	May 23 10:45 2012	23 May 2012 10:16 am
3	100	May 31 12:28 2012	May 31 12:24 2012	24 May 2012 5:40 pm
4	50	May 31 12:28 2012	May 31 12:24 2012	24 May 2012 5:22 pm
5	25	May 31 12:27 2012	May 31 12:23 2012	24 May 2012 5:03 pm
6	10	May 31 12:27 2012	May 31 12:23 2012	24 May 2012 4:45 pm
7	5	May 31 12:27 2012	May 31 12:22 2012	24 May 2012 4:27 pm
8	2	May 31 12:27 2012	May 31 12:21 2012	24 May 2012 4:09 pm
9	1	May 31 12:26 2012	May 31 12:20 2012	24 May 2012 3:51 pm
10	0.5	May 23 08:09 2012	May 23 08:08 2012	23 May 2012 7:33 am

GLYCOLS 052412..M Thu May 31 12:28:31 2012

Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1484.D
Acq On : 24 May 2012 3:51 pm
Operator : DG
Sample : 1 UG/ML GLYCOLS Inst : Betty
Misc : 2052310
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 12:20:17 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 24 20:56:49 2012
QLast Update : Thu May 31 12:20:05 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.658	45	655538	0.850	ug/ml	90
2) Ethylene Glycol	9.168	31	398572	0.931	ug/ml#	89

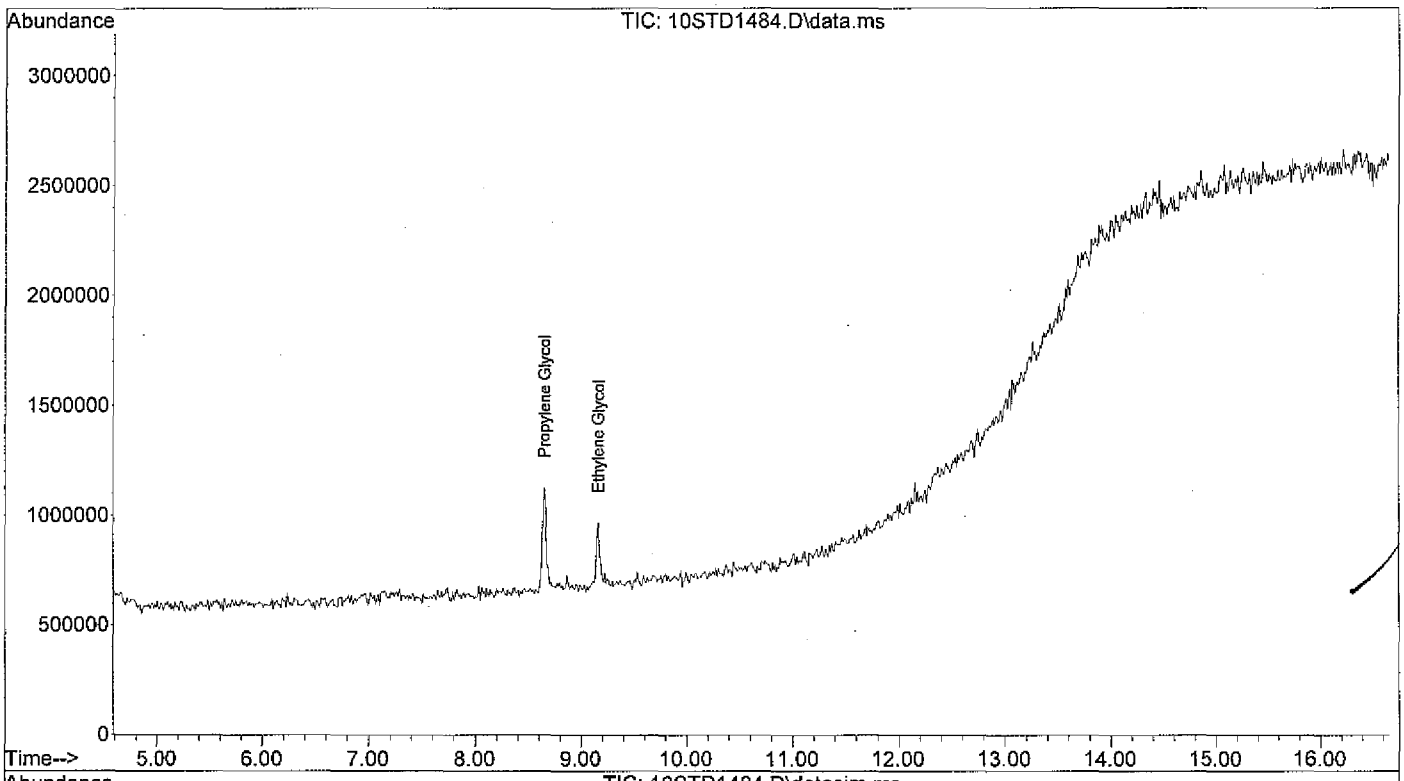
(#) = qualifier out of range (m) = manual integration (+) = signals summed

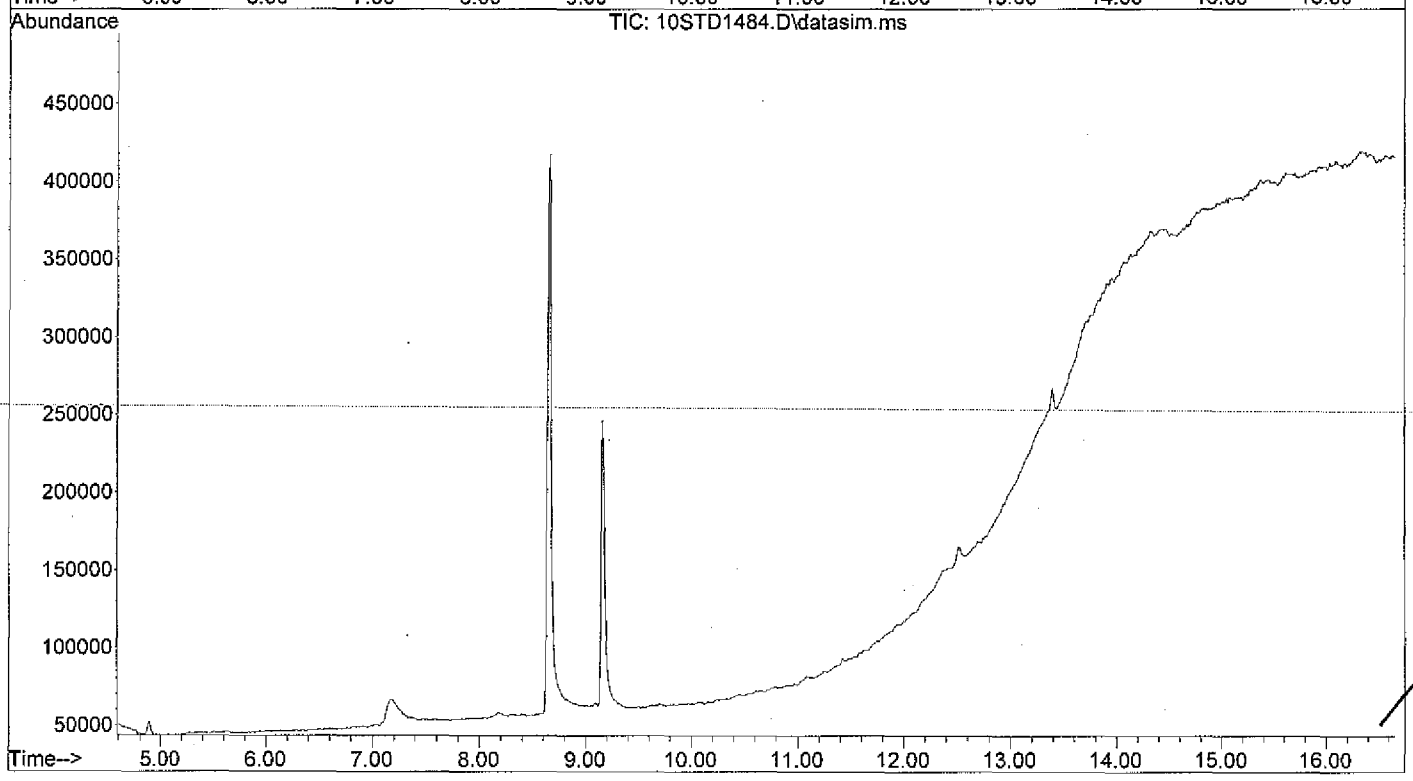
1 STD

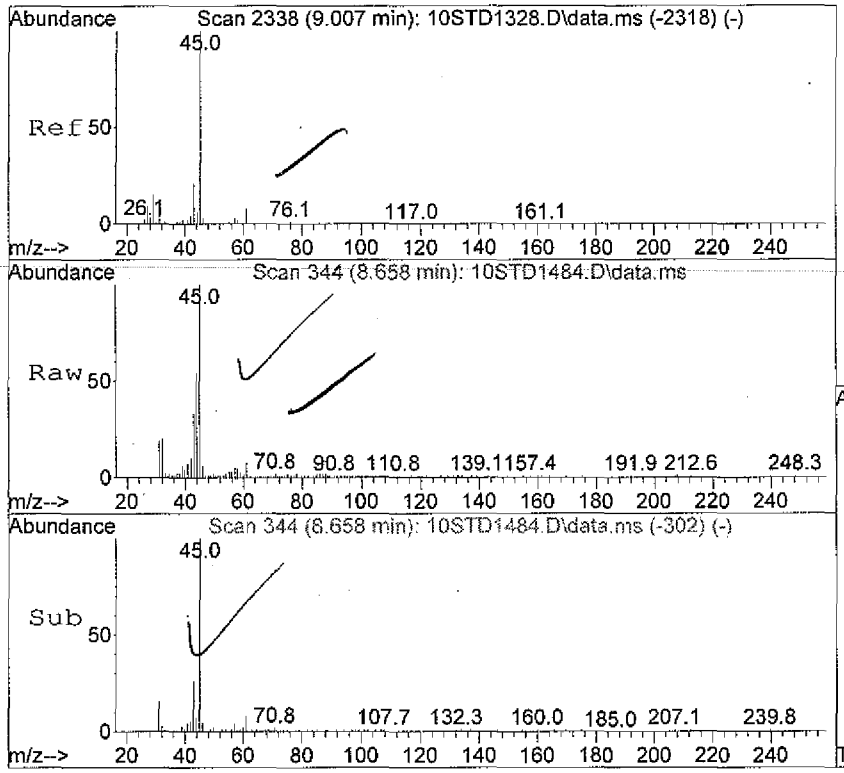
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1484.D
Acq On : 24 May 2012 3:51 pm
Operator : DG
Sample : 1 UG/ML GLYCOLS Inst : Betty
Misc : 2052310
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 12:20:17 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 24 20
QLast Update : Thu May 31 12:20:05 2012
Response via : Initial Calibration



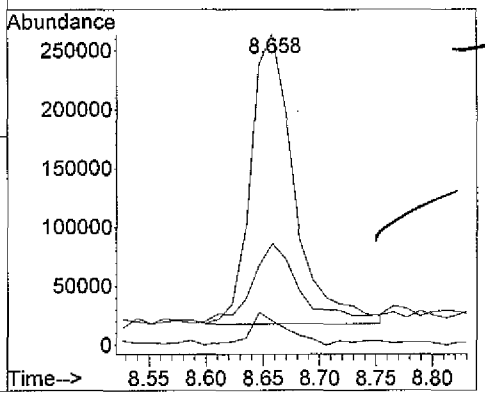


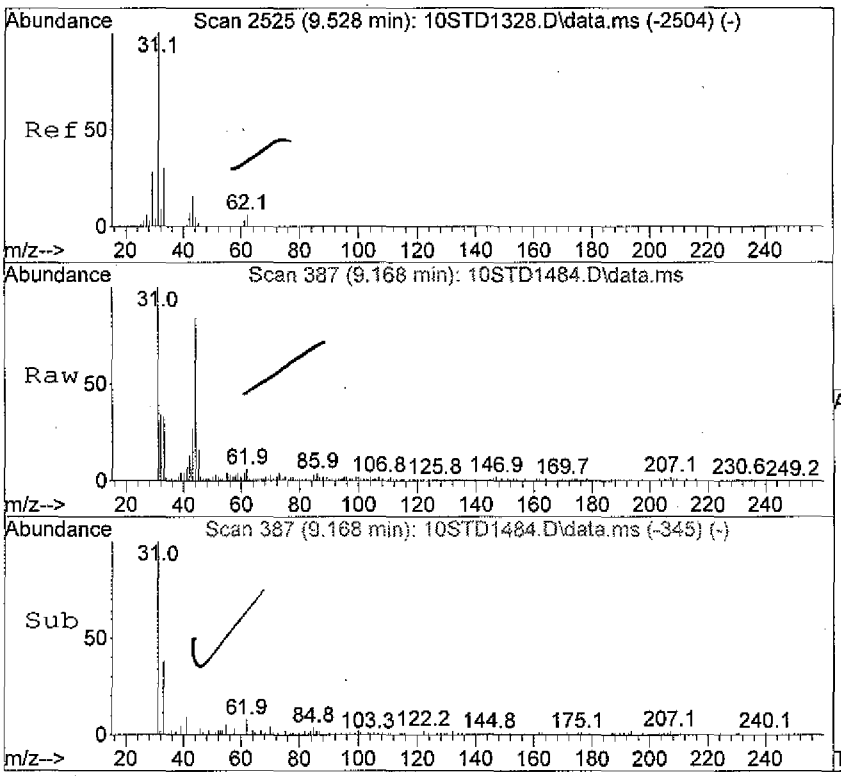


#1
Propylene Glycol
Concen: 0.850 ug/ml
RT: 8.658 min Scan# 344
Delta R.T. 0.000 min
Lab File: 10STD1484.D
Acq: 24 May 2012 3:51 pm

Tgt Ion: 45 Resp: 655538

Ion	Ratio	Lower	Upper
45	100		
43	26.2	24.0	41.2
61	7.1	0.0	16.3

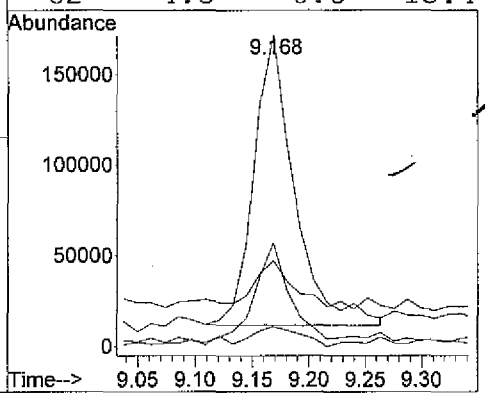




#2
Ethylene Glycol
Concen: 0.931 ug/ml
RT: 9.168 min Scan# 387
Delta R.T. 0.000 min
Lab File: 10STD1484.D
Acq: 24 May 2012 3:51 pm

Tgt Ion: 31 Resp: 398572

Ion	Ratio	Lower	Upper
31	100		
33	33.1	24.1	42.3
43	14.6	18.4	36.6#
62	4.5	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1485.D
Acq On : 24 May 2012 4:09 pm
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Betty
Misc : 2052309
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 12:21:53 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:20:29 2012
QLast Update : Thu May 31 12:20:29 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene Glycol	8.658	45	1535980*	1.991 ug/ml	88
2) Ethylene Glycol	9.169	31	866483.	2.023 ug/ml#	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

2 STD

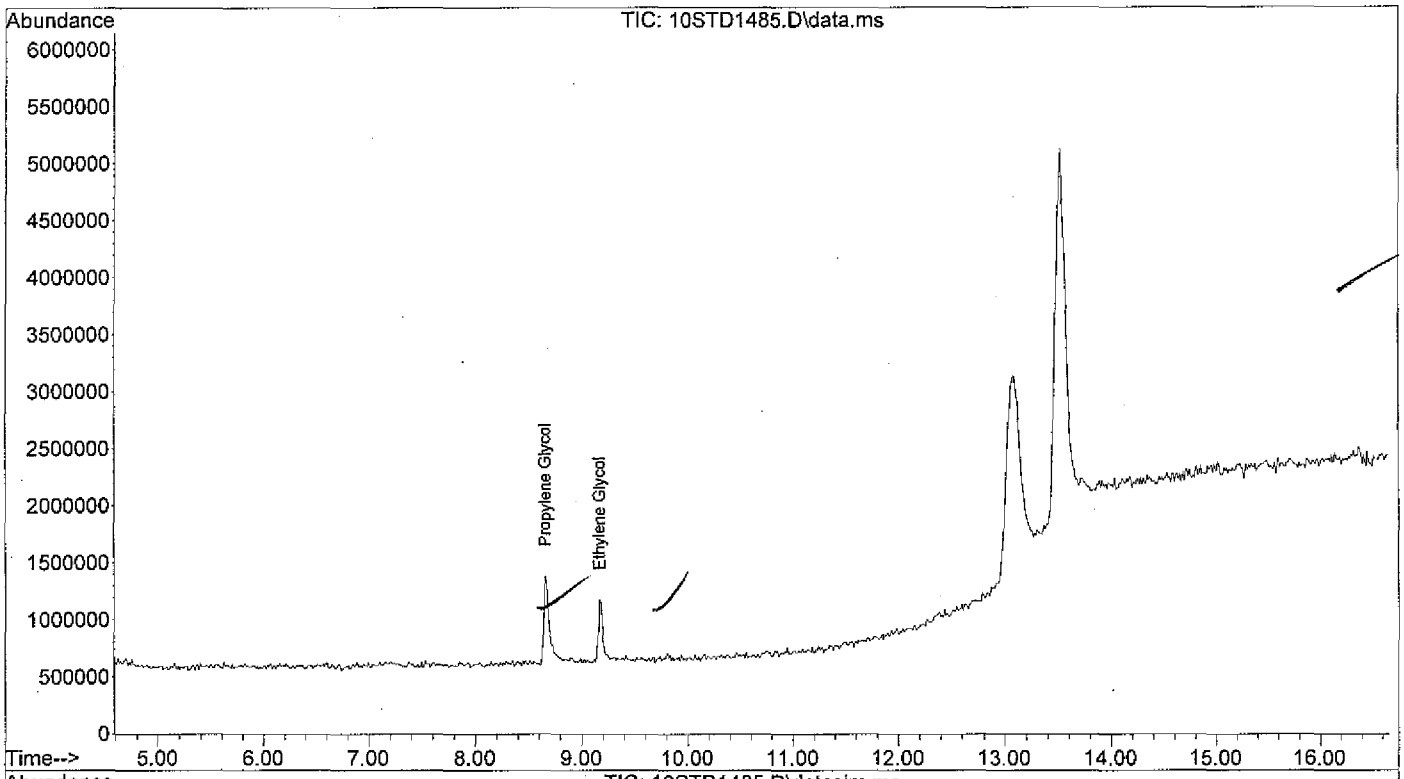
DIM0096011

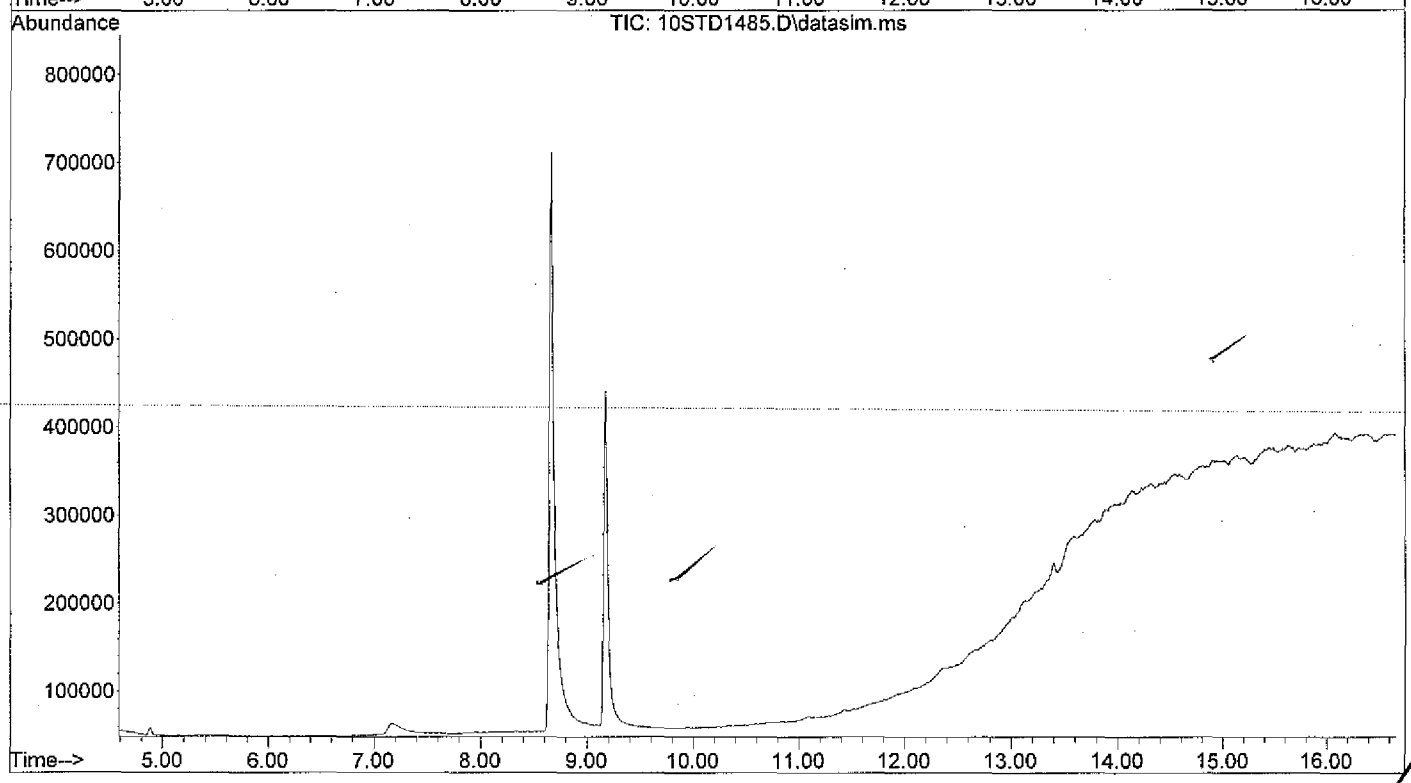
DIM0096101

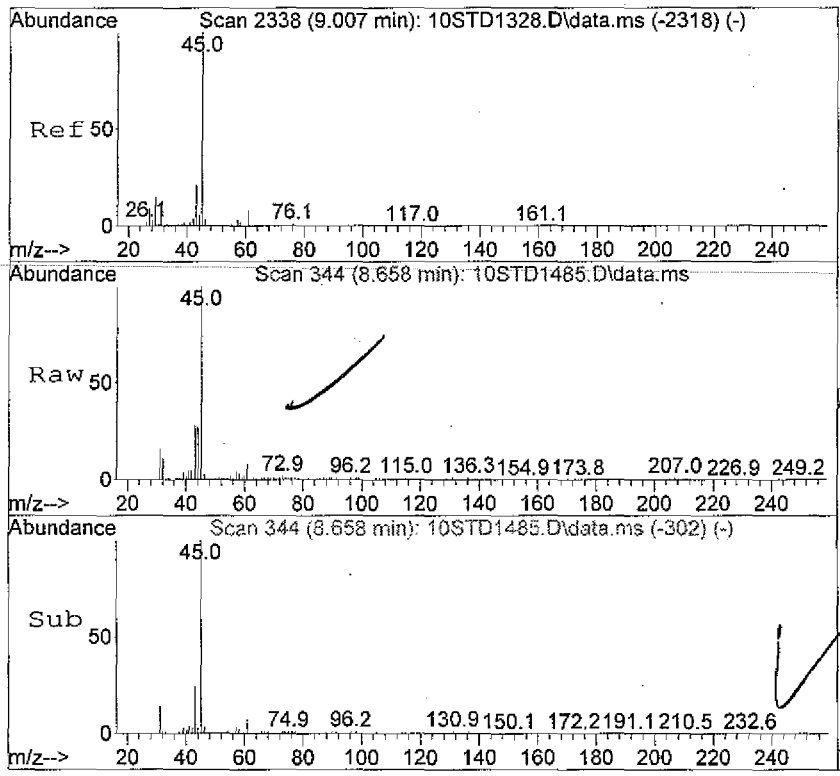
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1485.D
Acq On : 24 May 2012 4:09 pm
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Betty
Misc : 2052309
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 12:21:53 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:20:29 2012
Response via : Initial Calibration



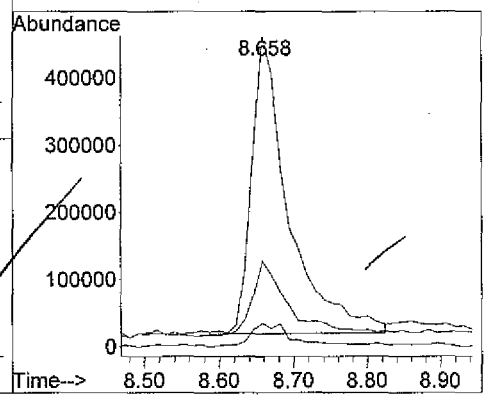


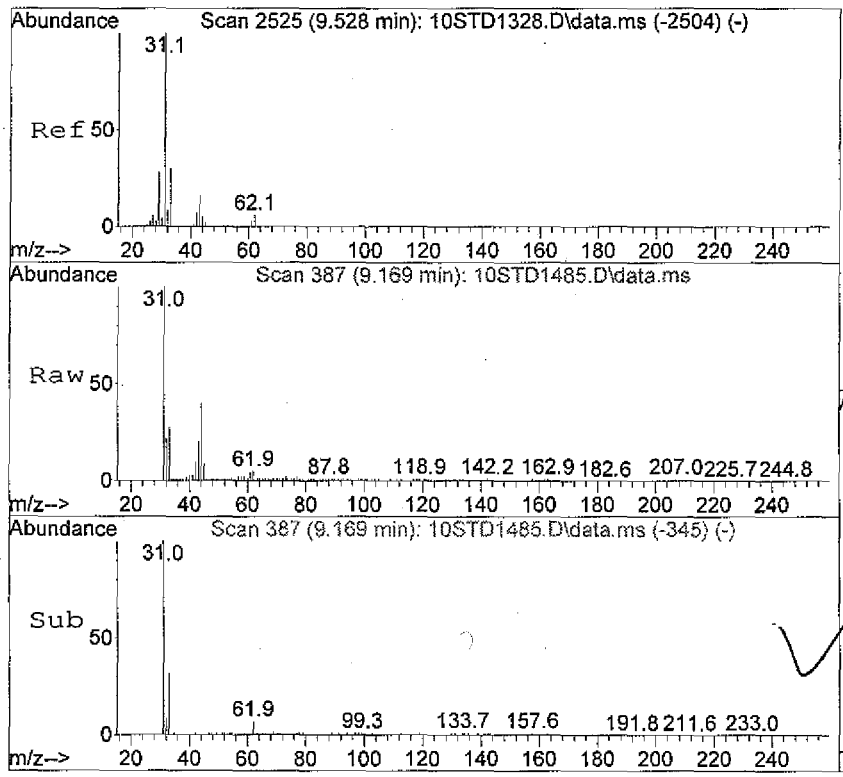


#1
Propylene Glycol
Concen: 1.991 ug/ml
RT: 8.658 min Scan# 344
Delta R.T. 0.000 min
Lab File: 10STD1485.D
Acq: 24 May 2012 4:09 pm

Tgt Ion: 45 Resp: 1535980

Ion	Ratio	Lower	Upper
45	100		
43	24.6	24.0	41.2
61	7.6	0.0	16.3

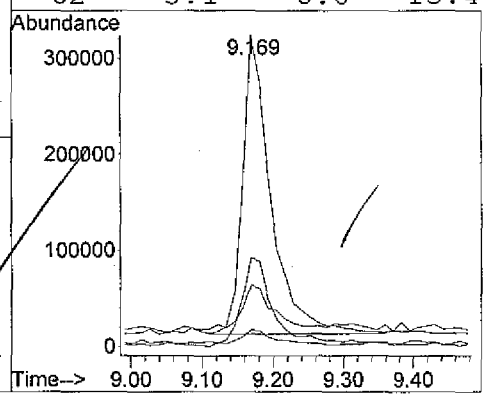




#2
Ethylene Glycol
Concen: 2.023 ug/ml
RT: 9.169 min Scan# 387
Delta R.T. 0.000 min
Lab File: 10STD1485.D
Acq: 24 May 2012 4:09 pm

Tgt Ion: 31 Resp: 866483

Ion	Ratio	Lower	Upper
31	100		
33	28.2	24.1	42.3
43	14.1	18.4	36.6#
62	5.1	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1486.D
Acq On : 24 May 2012 4:27 pm
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Betty
Misc : 2052308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 12:22:21 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:20:29 2012
QLast Update : Thu May 31 12:22:04 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.658	45	4244487	5.501	ug/ml#	83
2) Ethylene Glycol	9.169	31	2340529	5.465	ug/ml#	90

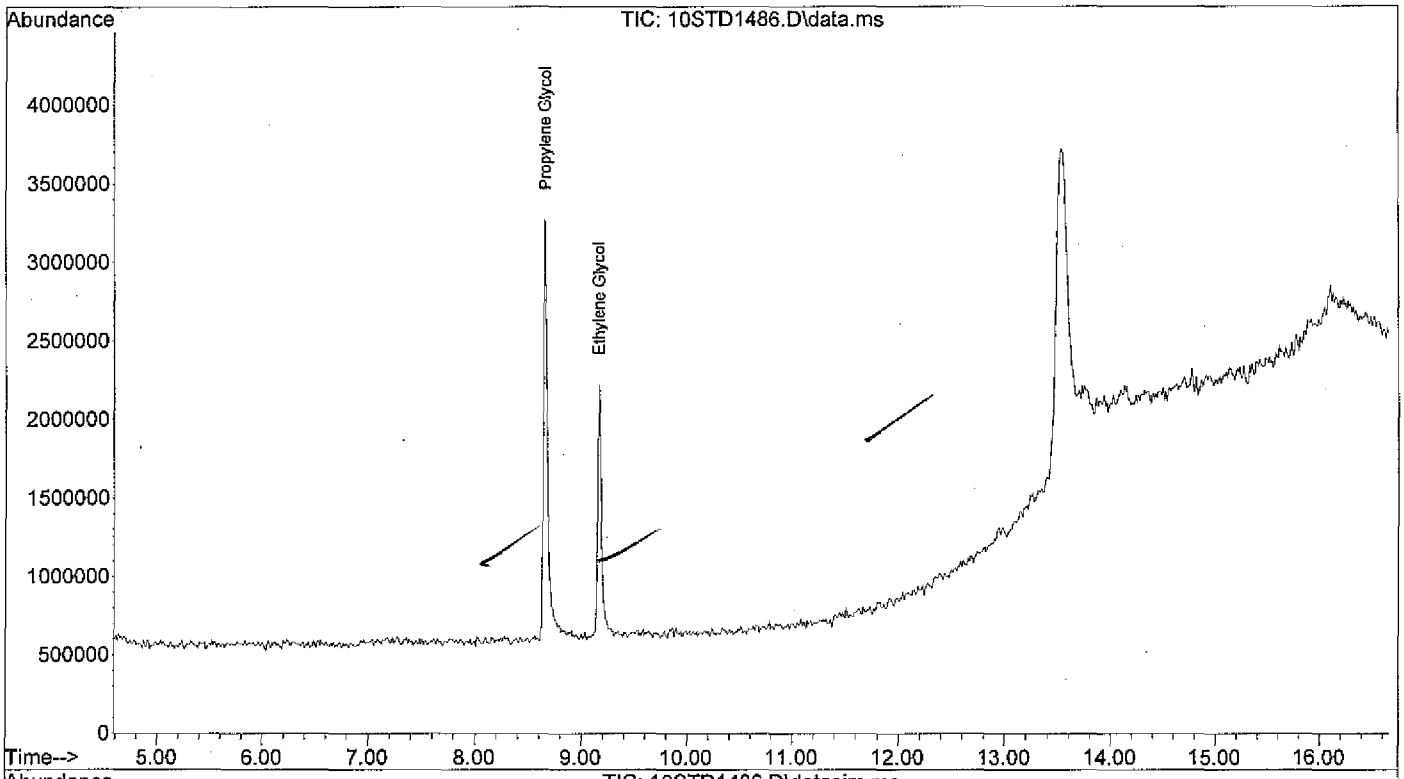
(#) = qualifier out of range (m) = manual integration (+) = signals summed

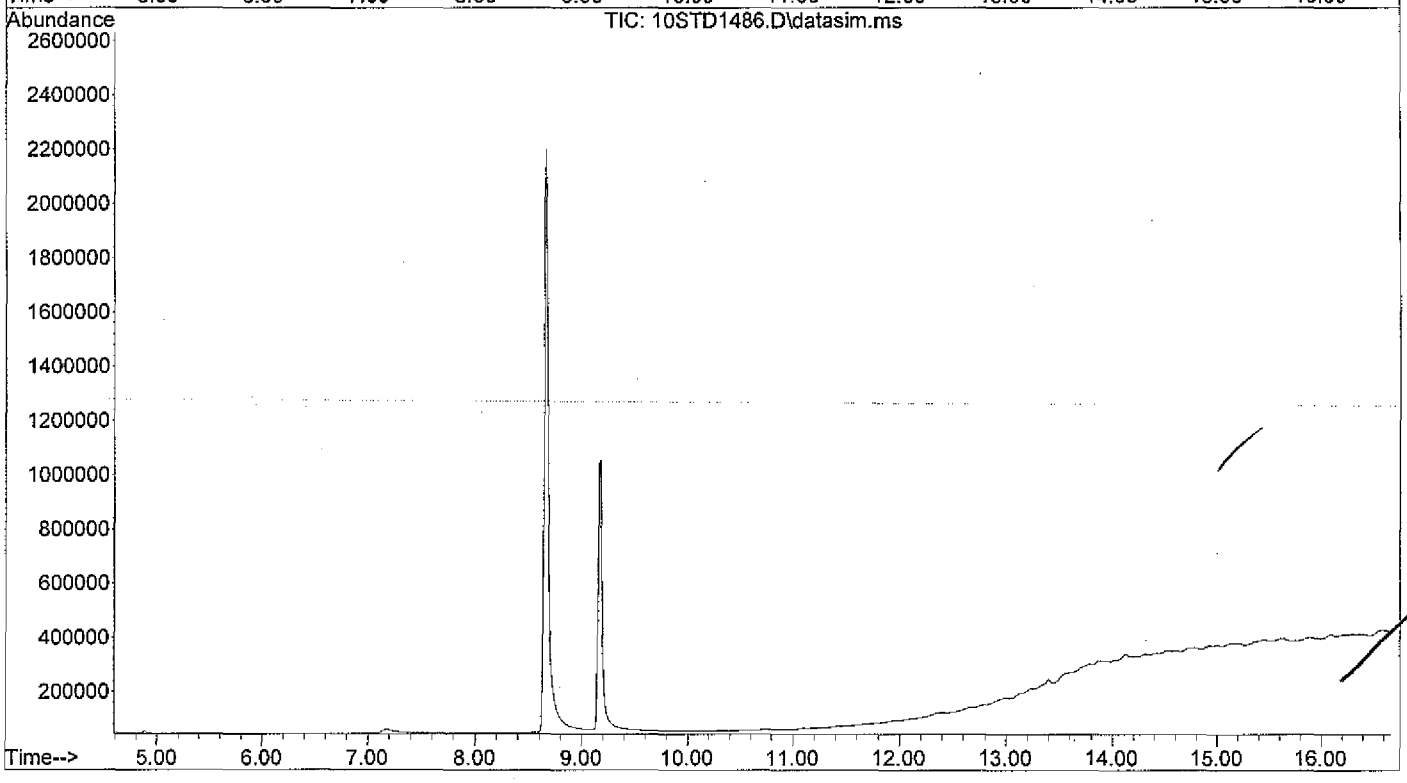
5 STD

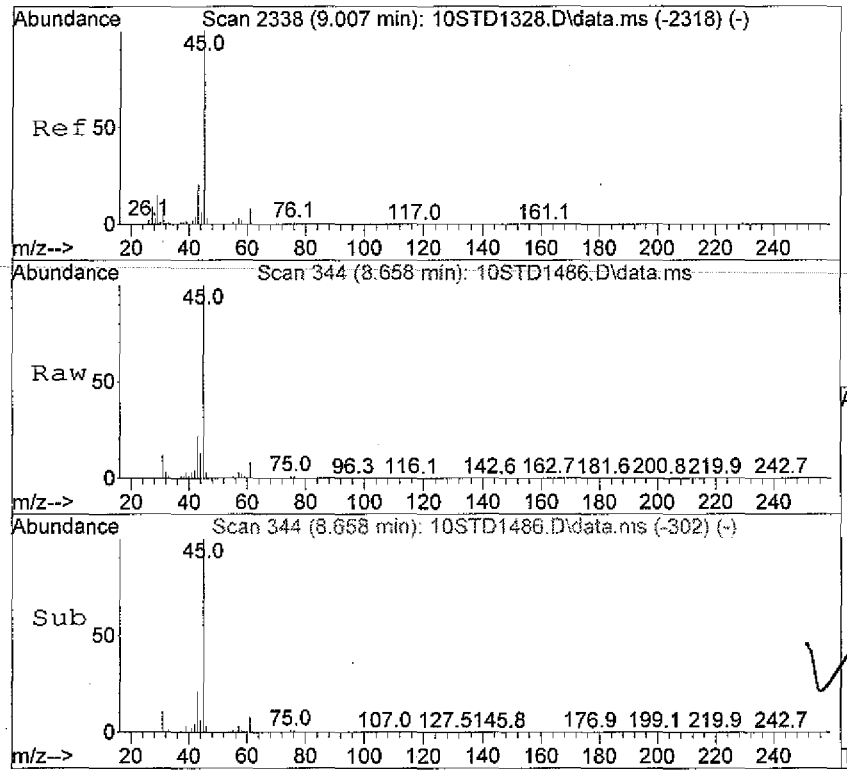
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1486.D
Acq On : 24 May 2012 4:27 pm
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Betty
Misc : 2052308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 12:22:21 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:22:04 2012
Response via : Initial Calibration



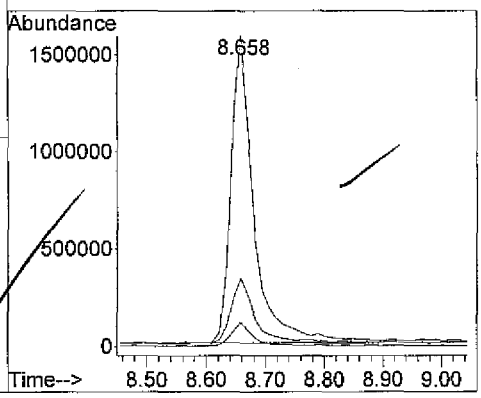


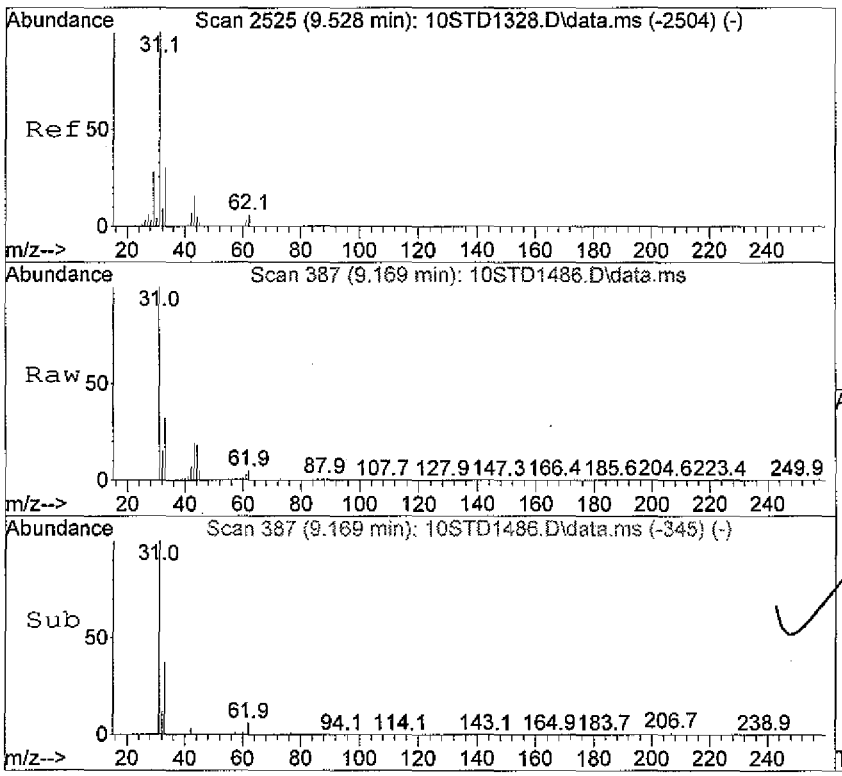


#1
Propylene Glycol
Concen: 5.501 ug/ml
RT: 8.658 min Scan# 344
Delta R.T. 0.000 min
Lab File: 10STD1486.D
Acq: 24 May 2012 4:27 pm

Tgt Ion: 45 Resp: 4244487

Ion	Ratio	Lower	Upper
45	100		
43	20.9	24.0	41.2#
61	7.6	0.0	16.3

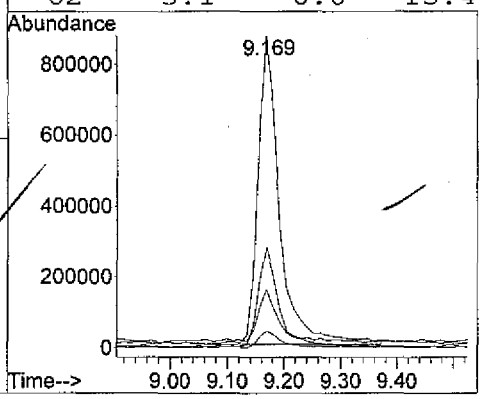




#2
Ethylene Glycol
Concen: 5.465 ug/ml
RT: 9.169 min Scan# 387
Delta R.T. -0.000 min
Lab File: 10STD1486.D
Acq: 24 May 2012 4:27 pm

Tgt Ion: 31 Resp: 2340529

Ion	Ratio	Lower	Upper
31	100		
33	32.2	24.1	42.3
43	16.3	18.4	36.6#
62	5.1	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1487.D
Acq On : 24 May 2012 4:45 pm
Operator : DG
Sample : 10 UG/ML GLYCOLS Inst : Betty
Misc : 2052307
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 12:23:05 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412.M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:22:04 2012
QLast Update : Thu May 31 12:22:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.658	45	8737937	11.325	ug/ml#	83
2) Ethylene Glycol	9.168	31	4475953	10.450	ug/ml#	88

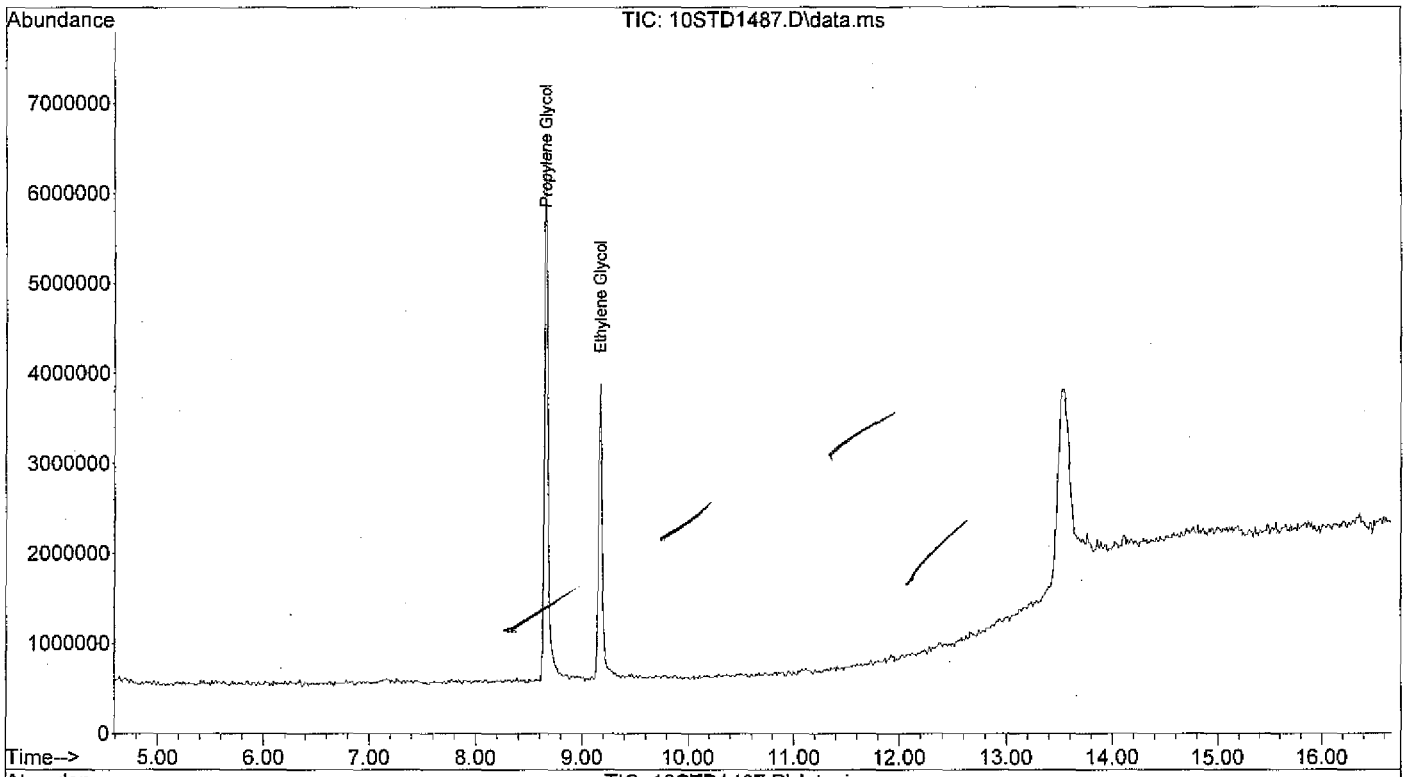
(#) = qualifier out of range (m) = manual integration (+) = signals summed

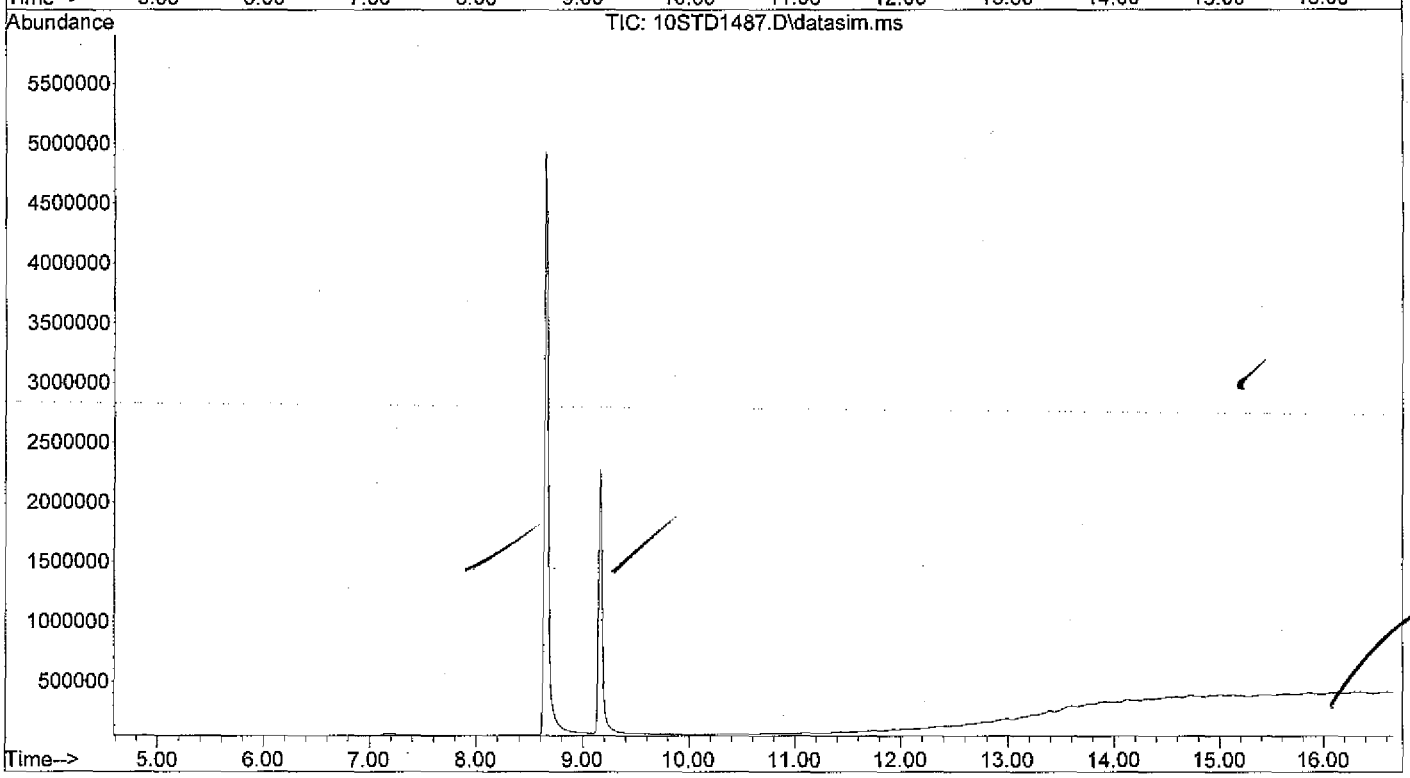
10 STD

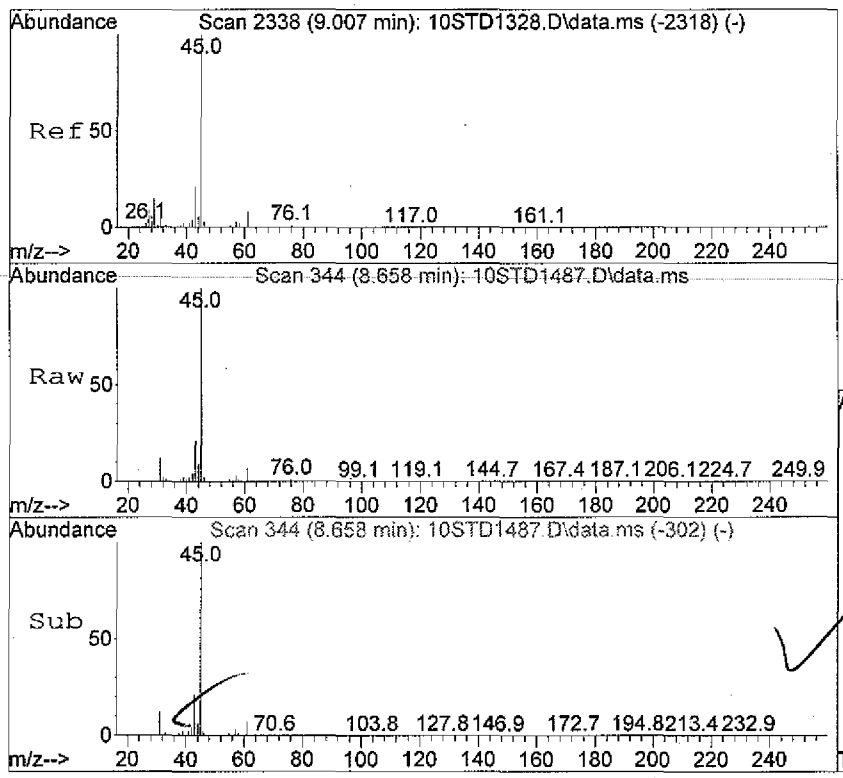
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1487.D
Acq On : 24 May 2012 4:45 pm
Operator : DG
Sample : 10 UG/ML GLYCOLS Inst : Betty
Misc : 2052307
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 12:23:05 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:22:43 2012
Response via : Initial Calibration



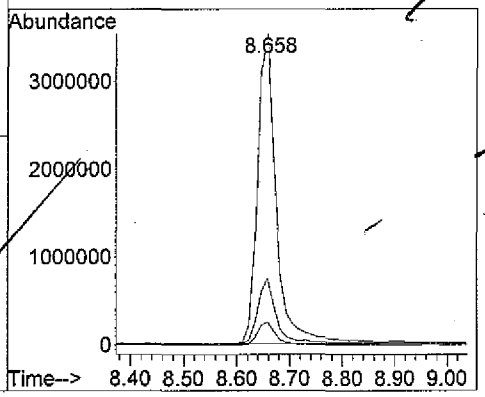


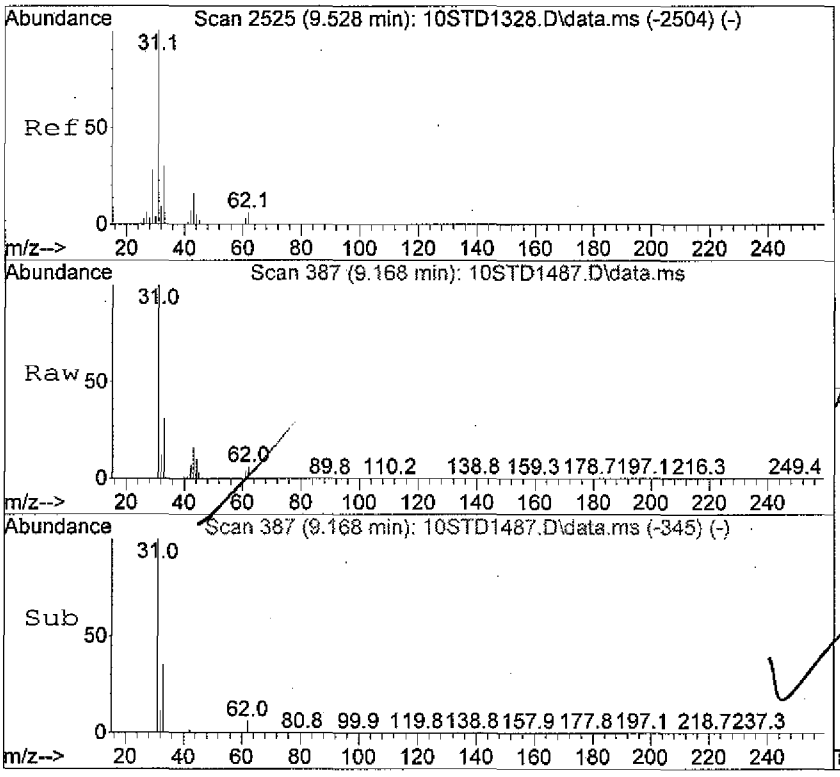


#1
Propylene Glycol
Concen: 11.325 ug/ml
RT: 8.658 min Scan# 344
Delta R.T. 0.000 min
Lab File: 10STD1487.D
Acq: 24 May 2012 4:45 pm

Tgt Ion: 45 Resp: 8737937

Ion	Ratio	Lower	Upper
45	100		
43	20.9	24.0	41.2#
61	7.4	0.0	16.3

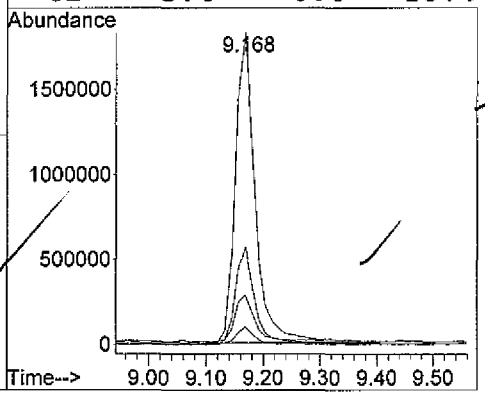




#2
Ethylene Glycol
Concen: 10.450 ug/ml
RT: 9.168 min Scan# 387
Delta R.T. -0.000 min
Lab File: 10STD1487.D
Acq: 24 May 2012 4:45 pm

Tgt Ion: 31 Resp: 4475953

Ion	Ratio	Lower	Upper
31	100		
33	31.3	24.1	42.3
43	15.0	18.4	36.6#
62	5.6	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1488.D
Acq On : 24 May 2012 5:03 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Betty
Misc : 2052306
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 12:23:40 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:22:43 2012
QLast Update : Thu May 31 12:23:23 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.646	45	21633579	28.039	ug/ml#	84
2) Ethylene Glycol	9.168	31	11751227	27.436	ug/ml#	87

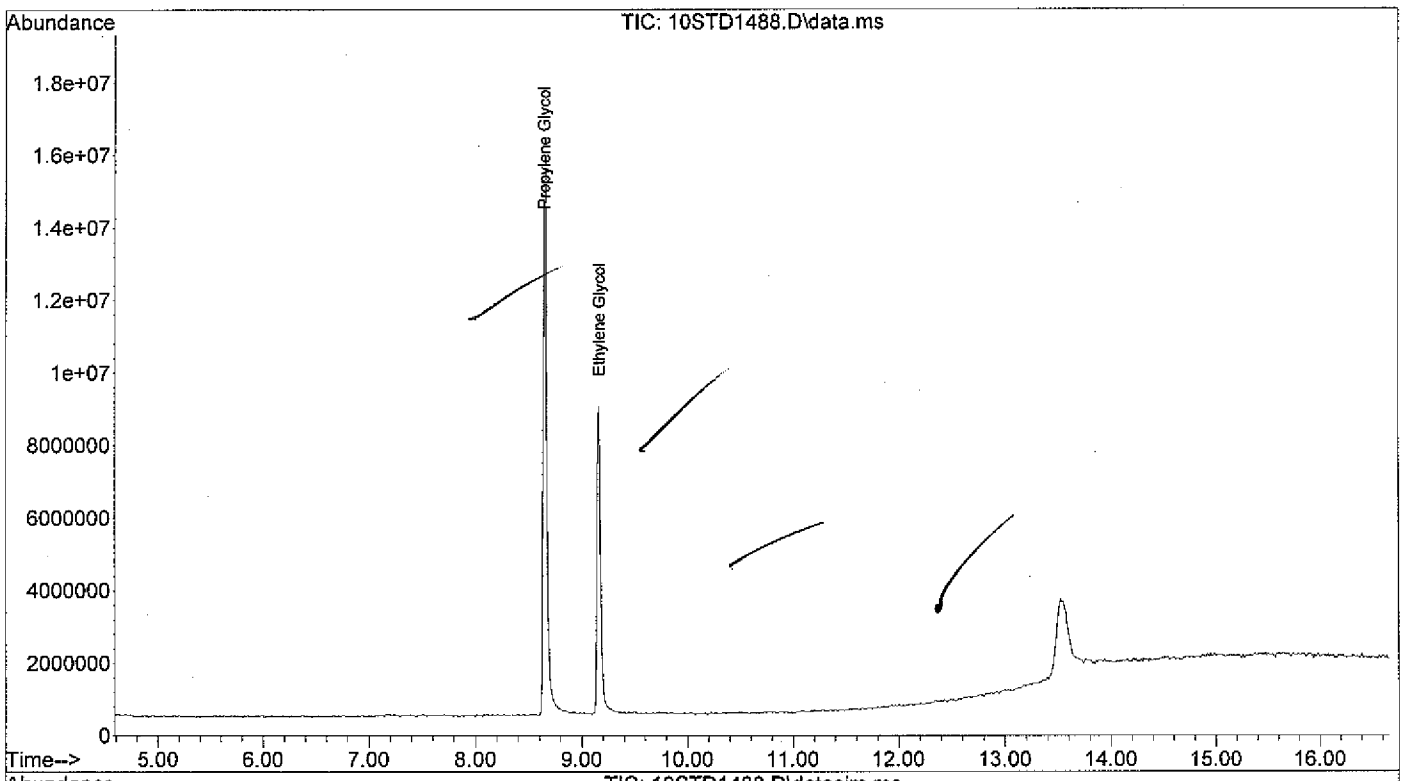
(#) = qualifier out of range (m) = manual integration (+) = signals summed

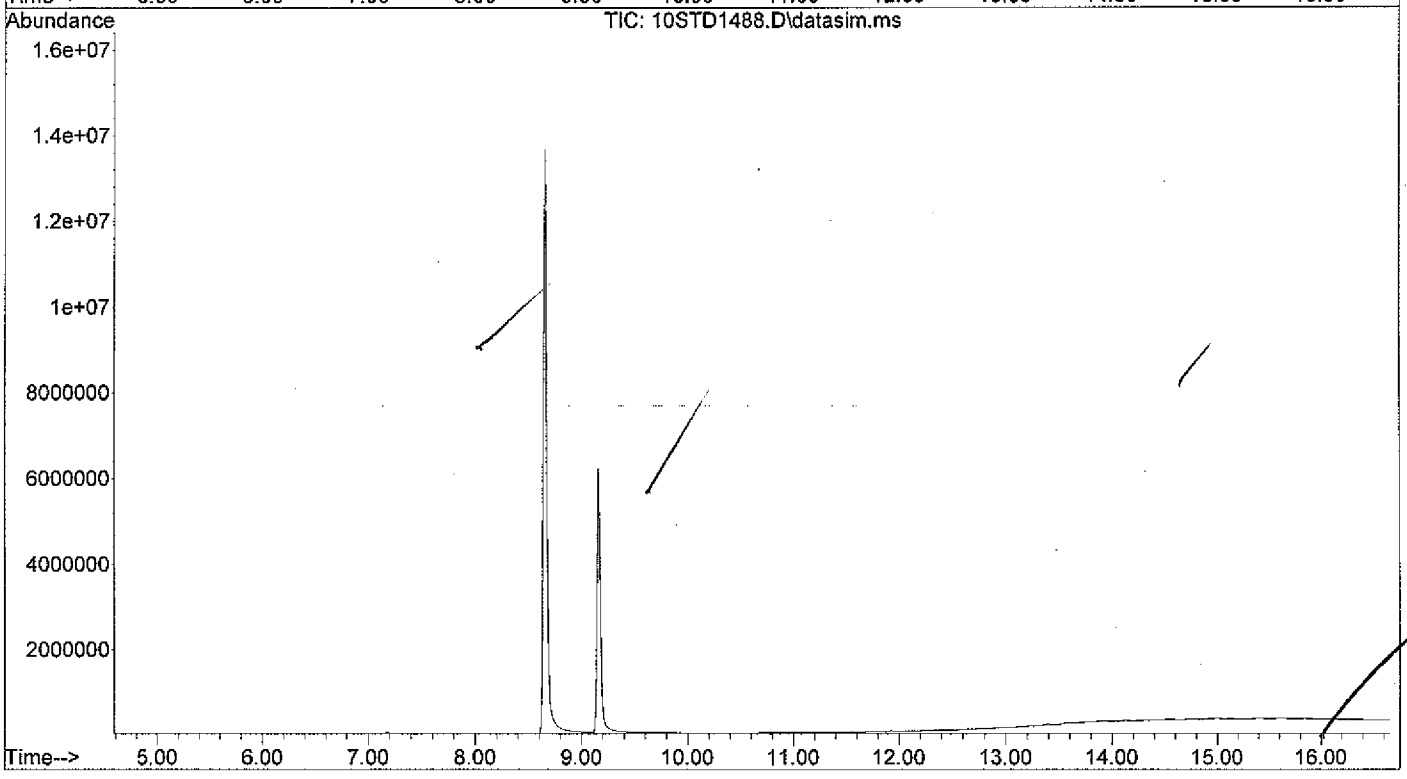
25 STD

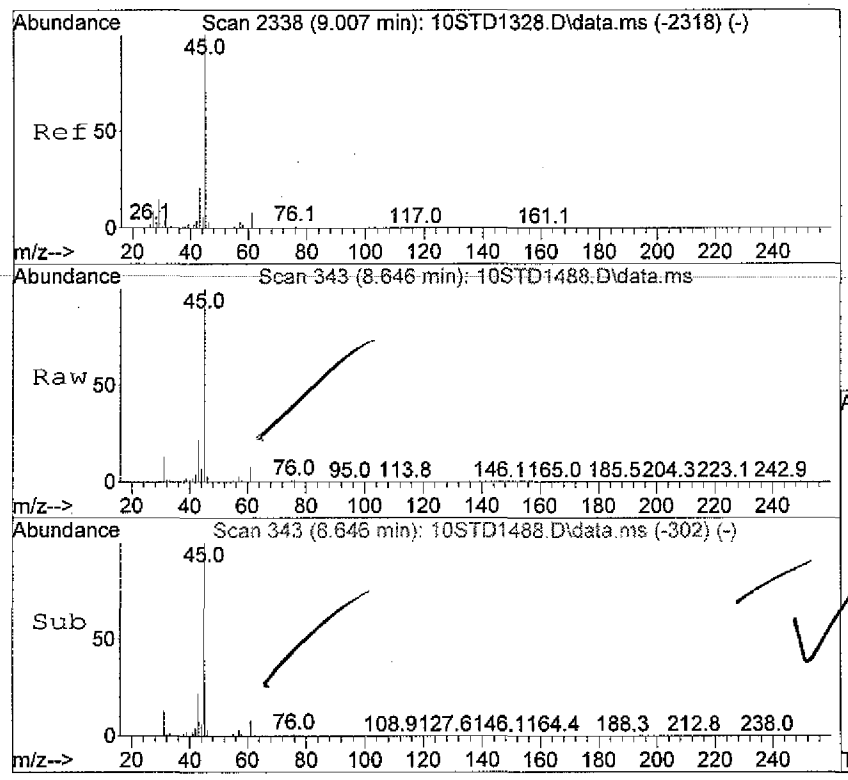
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1488.D
Acq On : 24 May 2012 5:03 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Betty
Misc : 2052306
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 12:23:40 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:23:23 2012
Response via : Initial Calibration



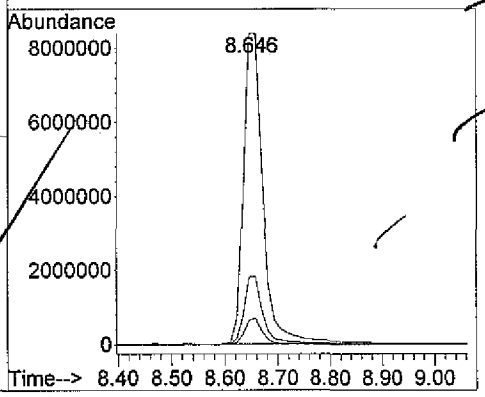


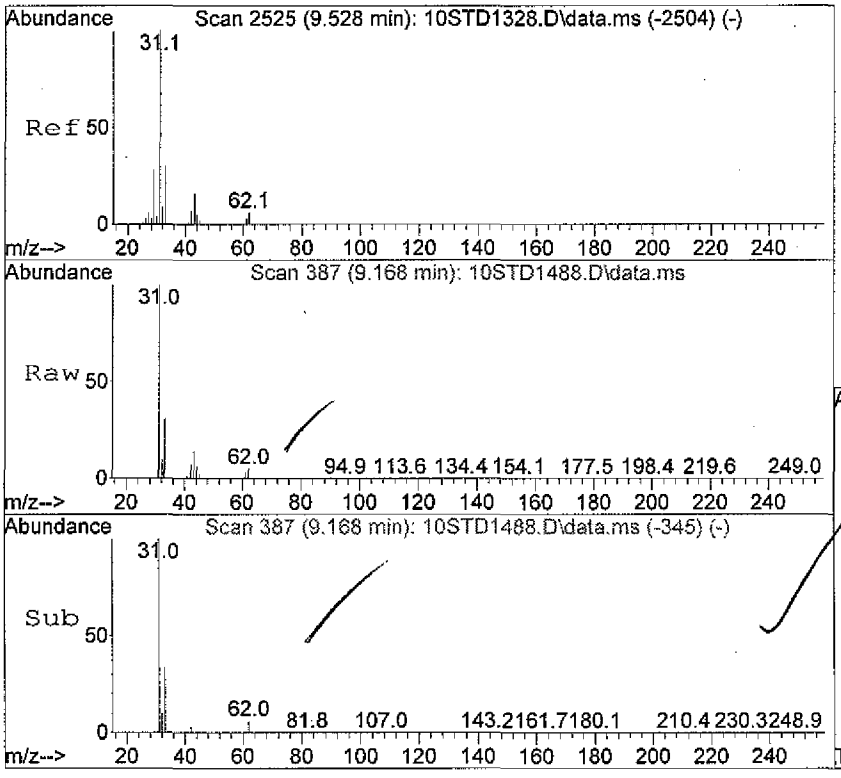


#1
Propylene Glycol
Concen: 28.039 ug/ml
RT: 8.646 min Scan# 343
Delta R.T. -0.012 min
Lab File: 10STD1488.D
Acq: 24 May 2012 5:03 pm

Tgt Ion: 45 Resp:21633579

Ion	Ratio	Lower	Upper
45	100		
43	21.7	24.0	41.2#
61	7.8	0.0	16.3

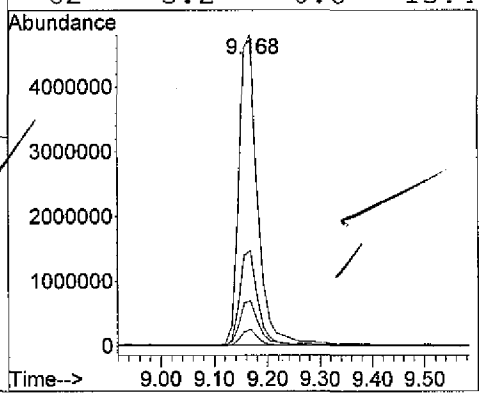




#2
Ethylene Glycol
Concen: 27.436 ug/ml
RT: 9.168 min Scan# 387
Delta R.T. 0.000 min
Lab File: 10STD1488.D
Acq: 24 May 2012 5:03 pm

Tgt Ion: 31 Resp:11751227

Ion	Ratio	Lower	Upper
31	100		
33	30.6	24.1	42.3
43	14.1	18.4	36.6#
62	5.2	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1489.D
Acq On : 24 May 2012 5:22 pm
Operator : DG
Sample : 50 UG/ML GLYCOLS Inst : Betty
Misc : 2052305
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:24:21 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:23:23 2012
QLast Update : Thu May 31 12:24:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.635	45	30889288	40.035	ug/ml	88
2) Ethylene Glycol	9.157	31	23442734	54.733	ug/ml#	84

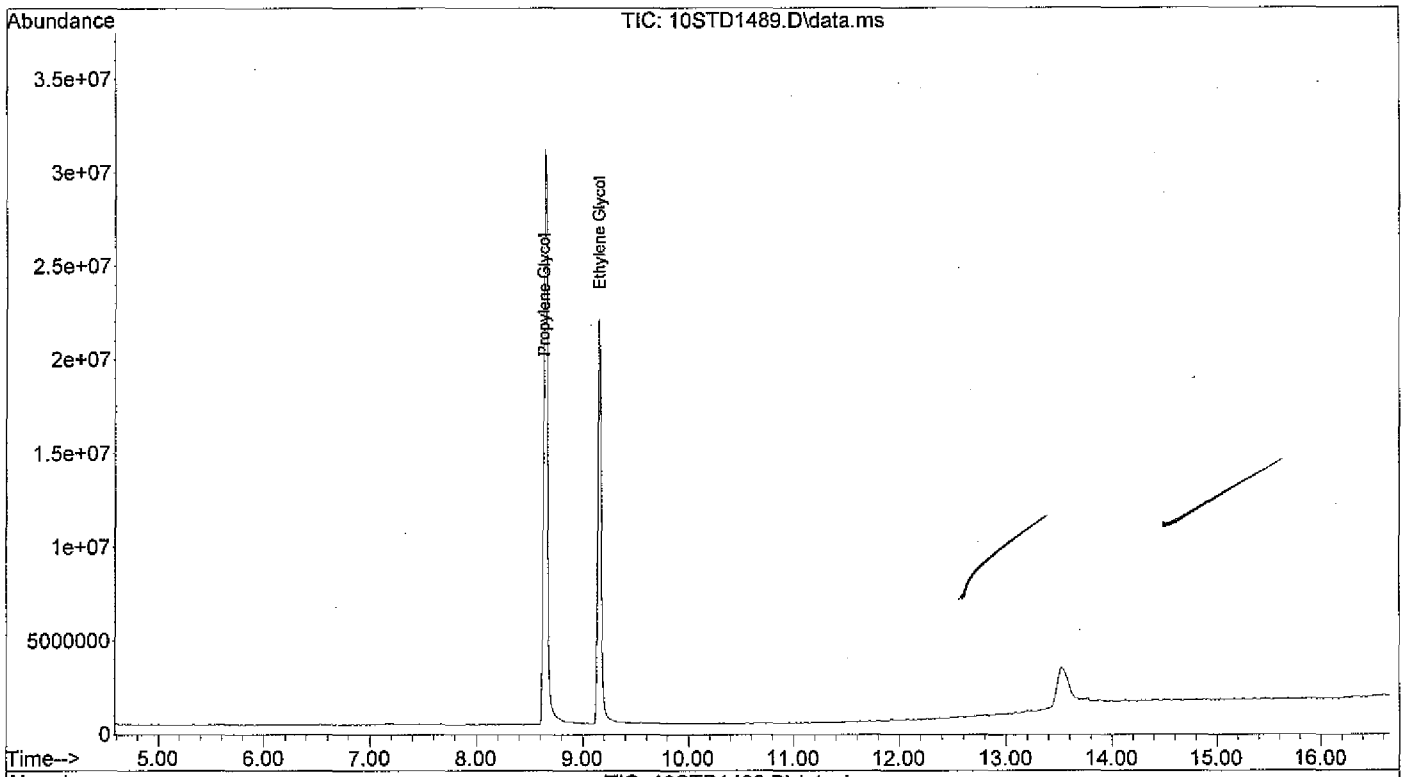
(#) = qualifier out of range (m) = manual integration (+) = signals summed

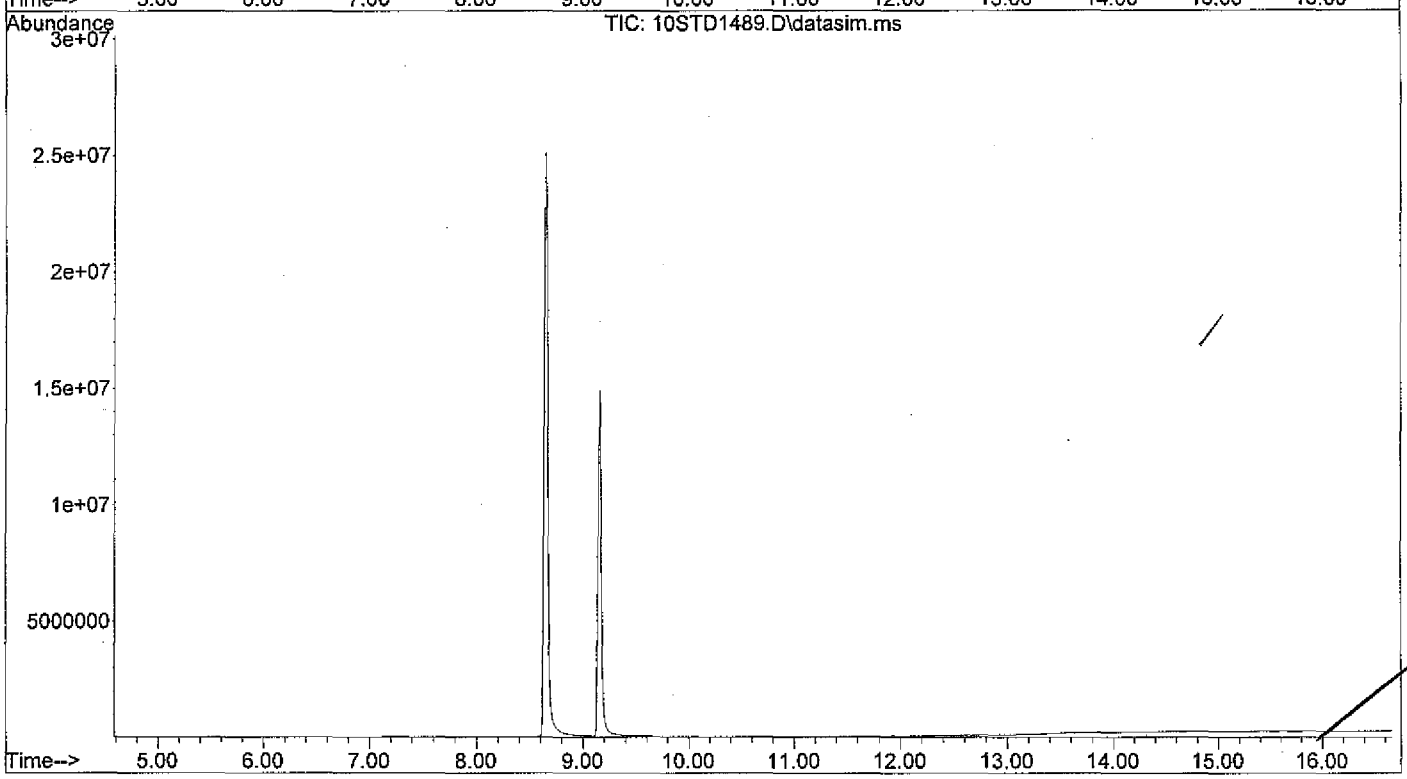
See SM

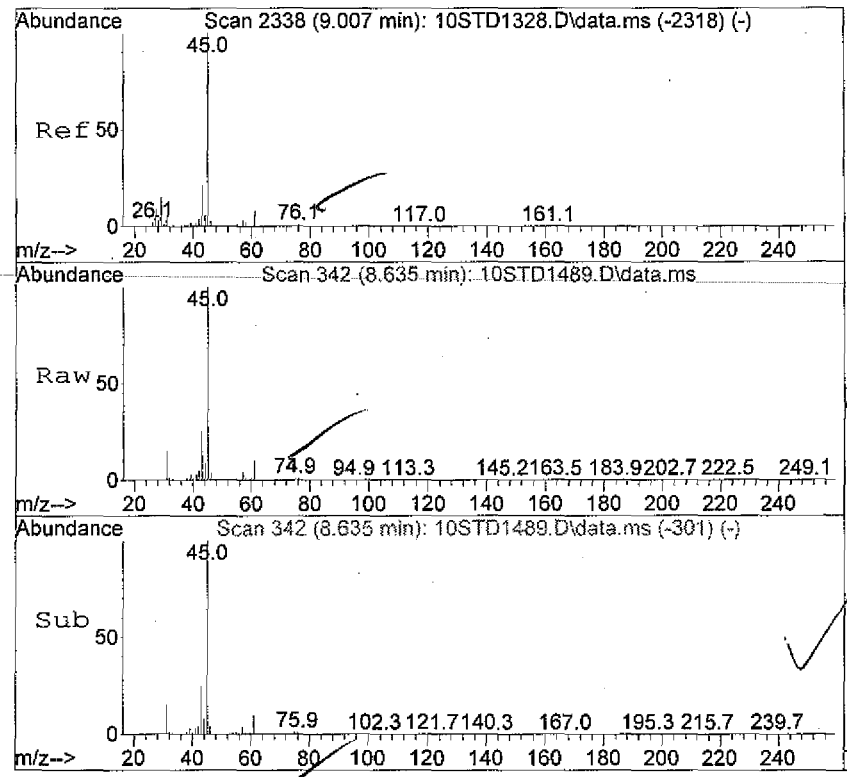
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1489.D
Acq On : 24 May 2012 5:22 pm
Operator : DG
Sample : 50 UG/ML GLYCOLS Inst : Betty
Misc : 2052305
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:24:21 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:24:06 2012
Response via : Initial Calibration



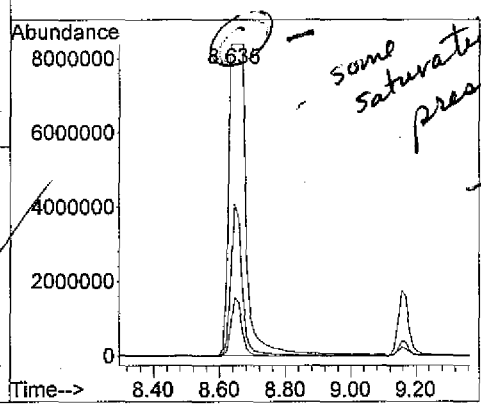




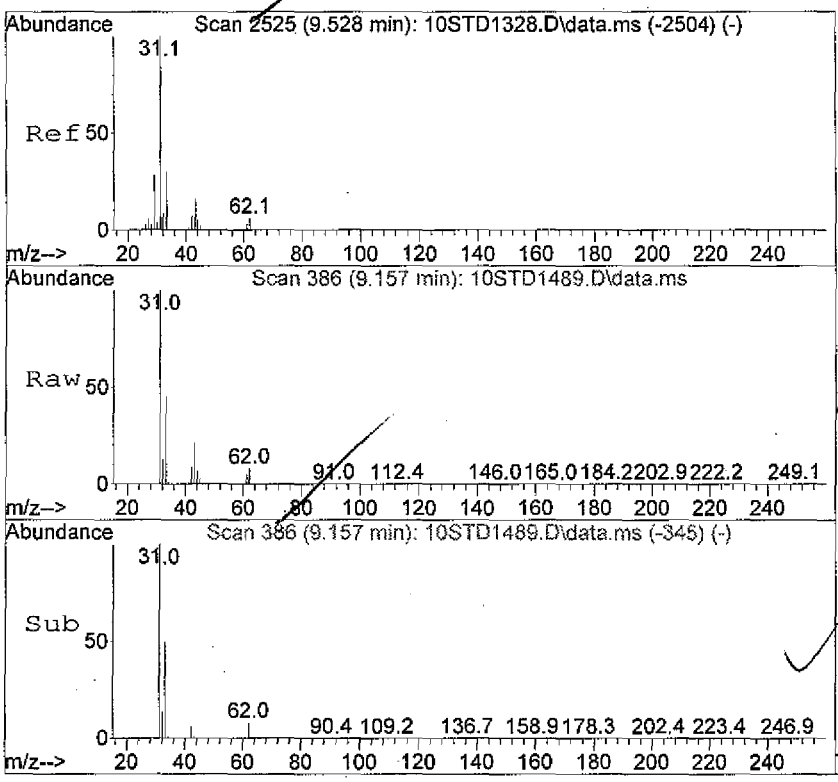
#1
Propylene Glycol
Concen: 40.035 ug/ml
RT: 8.635 min Scan# 342
Delta R.T. -0.011 min
Lab File: 10STD1489.D
Acq: 24 May 2012 5:22 pm

Tgt Ion: 45 Resp:30889288

Ion	Ratio	Lower	Upper
45	100		
43	25.1	24.0	41.2
61	9.5	0.0	16.3



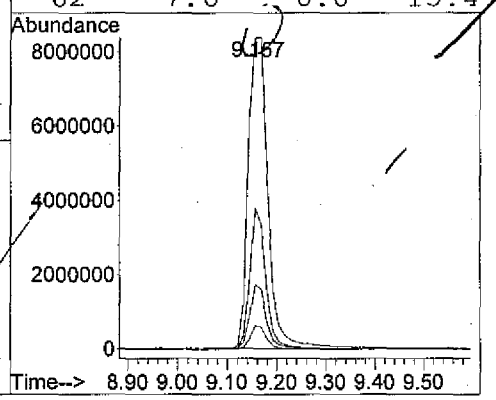
some saturation present



#2
Ethylene Glycol
Concen: 54.733 ug/ml
RT: 9.157 min Scan# 386
Delta R.T. -0.012 min
Lab File: 10STD1489.D
Acq: 24 May 2012 5:22 pm

Tgt Ion: 31 Resp:23442734

Ion	Ratio	Lower	Upper
31	100		
33	45.4	24.1	42.3#
43	20.7	18.4	36.6
62	7.6	0.0	15.4



Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1490.D
Acq On : 24 May 2012 5:40 pm
Operator : DG
Sample : 100 UG/ML GLYCOLS Inst : Betty
Misc : 2052304
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:24:49 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:24:06 2012
QLast Update : Thu May 31 12:24:33 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene Glycol	8.646	45	48573233	62.955 ug/ml# *	70
2) Ethylene Glycol	9.145	31	31175536	72.787 ug/ml	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

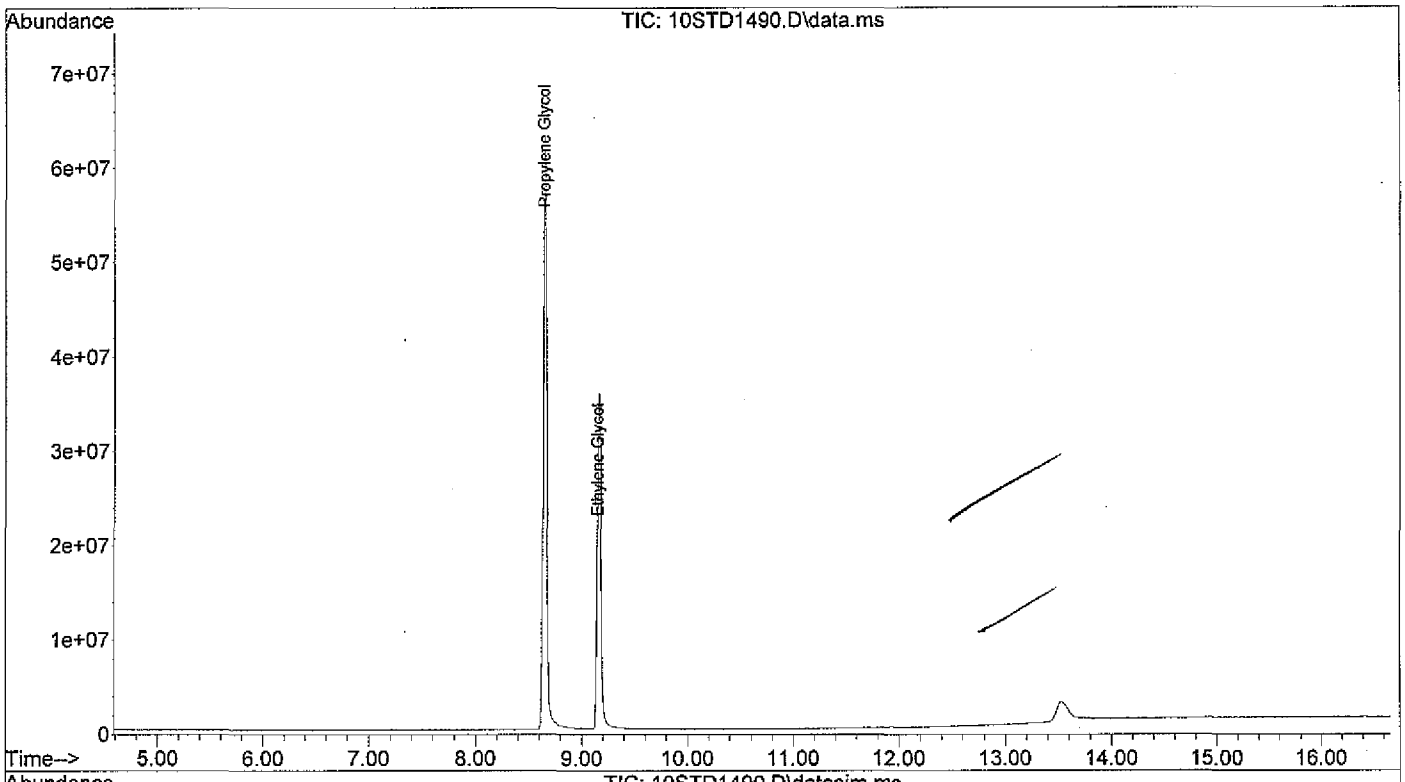
* not included due to saturation RSD > 20% w/ this pt.

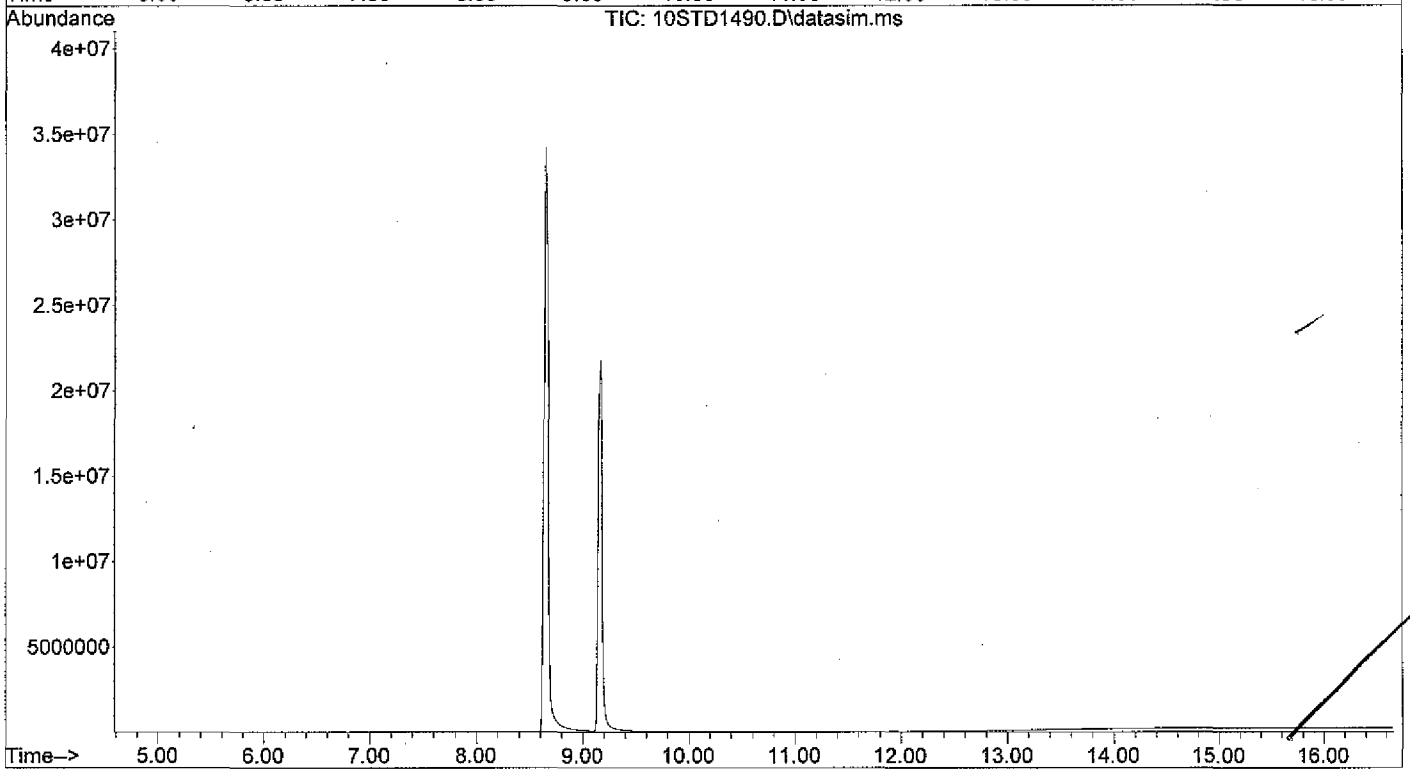
100
STM

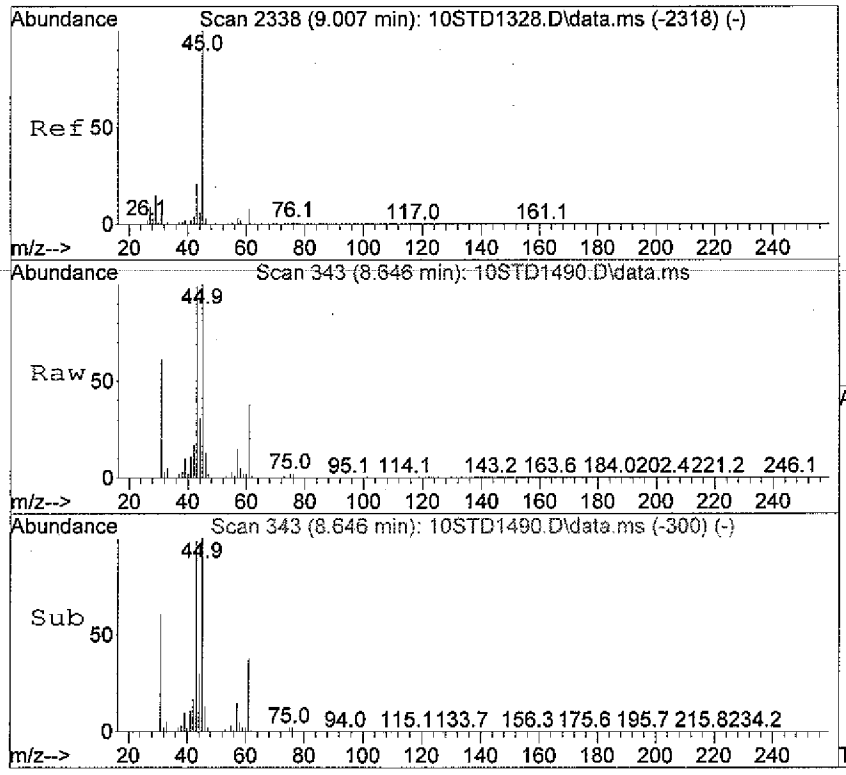
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1490.D
Acq On : 24 May 2012 5:40 pm
Operator : DG
Sample : 100 UG/ML GLYCOLS Inst : Betty
Misc : 2052304
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:24:49 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:24:33 2012
Response via : Initial Calibration



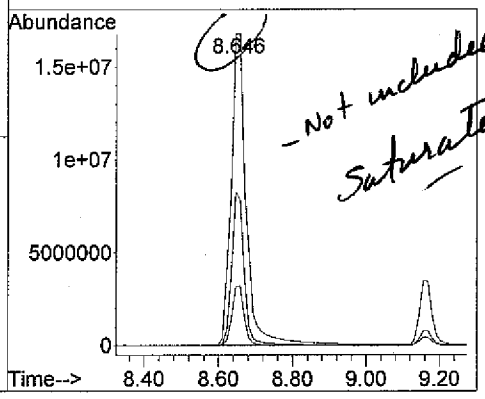




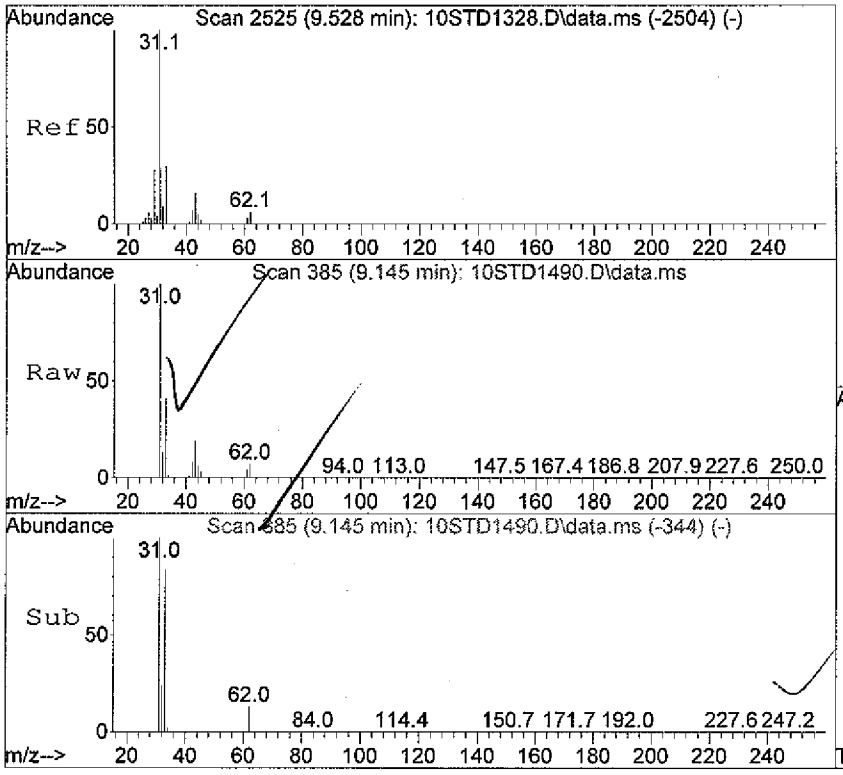
#1
Propylene Glycol
Concen: 62.955 ug/ml
RT: 8.646 min Scan# 343
Delta R.T. 0.011 min
Lab File: 10STD1490.D
Acq: 24 May 2012 5:40 pm

Tgt Ion: 45 Resp:48573233

Ion	Ratio	Lower	Upper
45	100		
43	49.4	24.0	41.2#
61	18.9	0.0	16.3#



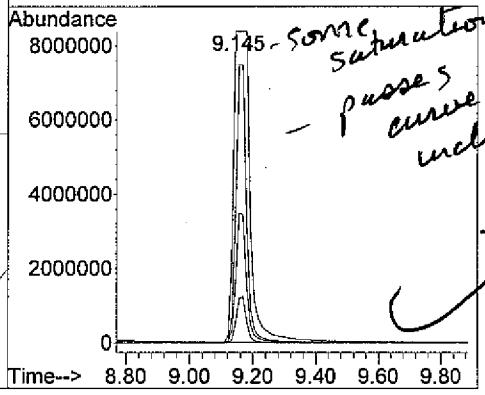
- Not included
Saturated



#2
Ethylene Glycol
Concen: 72.787 ug/ml
RT: 9.145 min Scan# 385
Delta R.T. -0.012 min
Lab File: 10STD1490.D
Acq: 24 May 2012 5:40 pm

Tgt Ion: 31 Resp:31175536

Ion	Ratio	Lower	Upper
31	100		
33	40.8	24.1	42.3
43	18.7	18.4	36.6
62	6.5	0.0	15.4



- Some saturation
- passes curve to include

Quantitation Report (Not Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1491.D
Acq On : 24 May 2012 5:58 pm
Operator : DG
Sample : 150 UG/ML GLYCOLS Inst : Betty
Misc : 2052303
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 15:48:49 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene Glycol	8.646	45	54040901	70.041	ug/ml#	64
2) Ethylene Glycol	9.145	31	34280719	80.037	ug/ml#	77

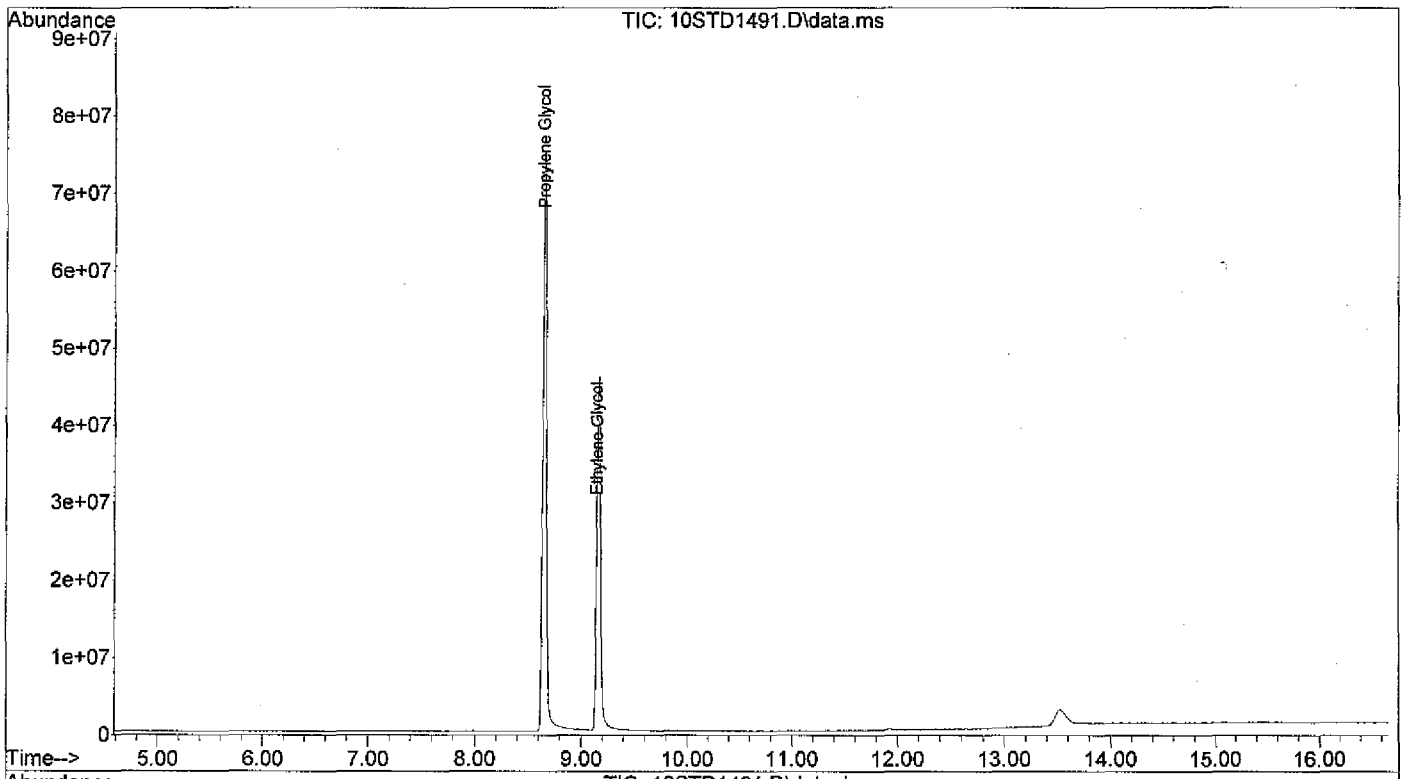
(#) = qualifier out of range (m) = manual integration (+) = signals summed

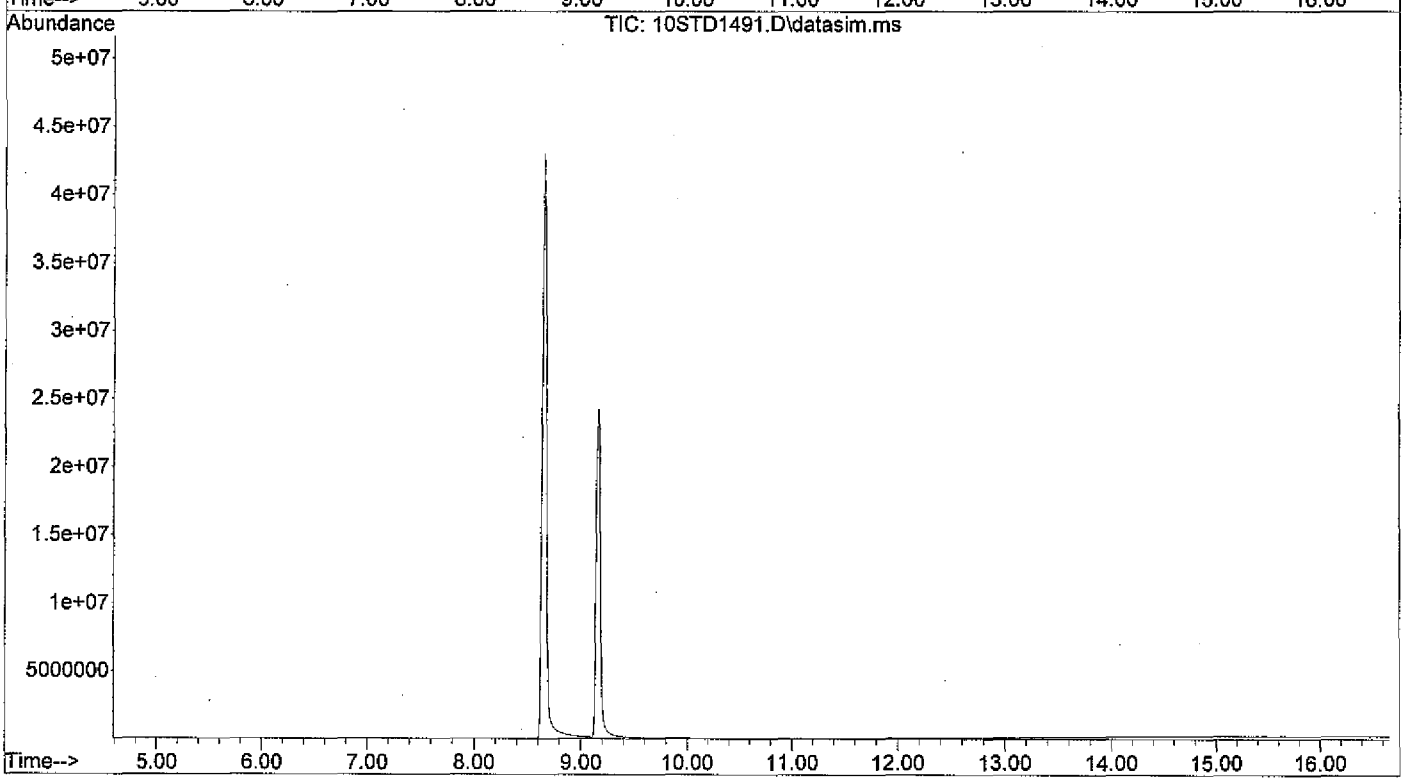
Not used due to Saturation

Quantitation Report (Not Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1491.D
Acq On : 24 May 2012 5:58 pm
Operator : DG
Sample : 150 UG/ML GLYCOLS Inst : Betty
Misc : 2052303
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 15:48:49 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration





Quantitation Report (Not Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1492.D
Acq On : 24 May 2012 6:16 pm
Operator : DG
Sample : 200 UG/ML GLYCOLS Inst : Betty
Misc : 2052302
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 15:49:06 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene Glycol	8.634	45	68264373	88.476 ug/ml#	79
2) Ethylene Glycol	9.168	31	42770229	99.858 ug/ml#	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

not used due to saturation

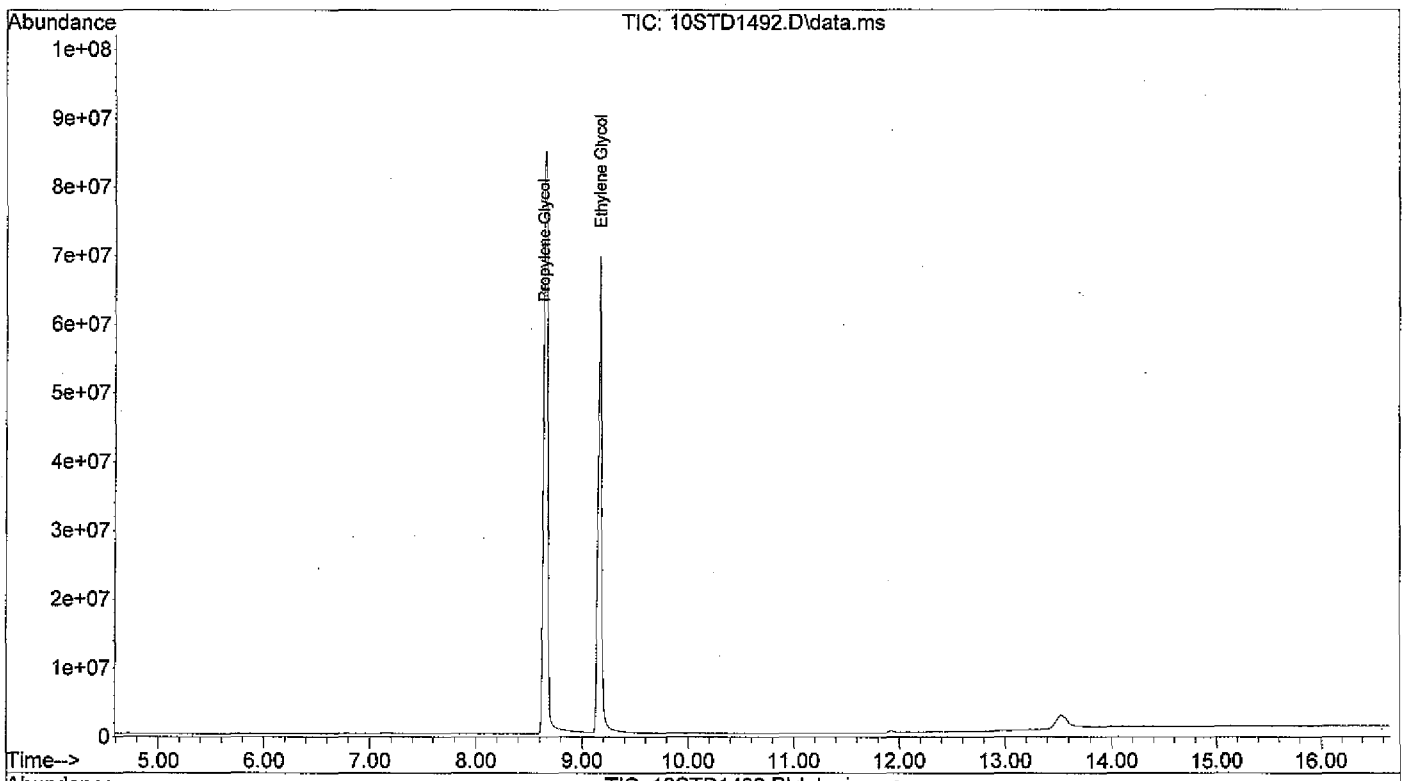
X

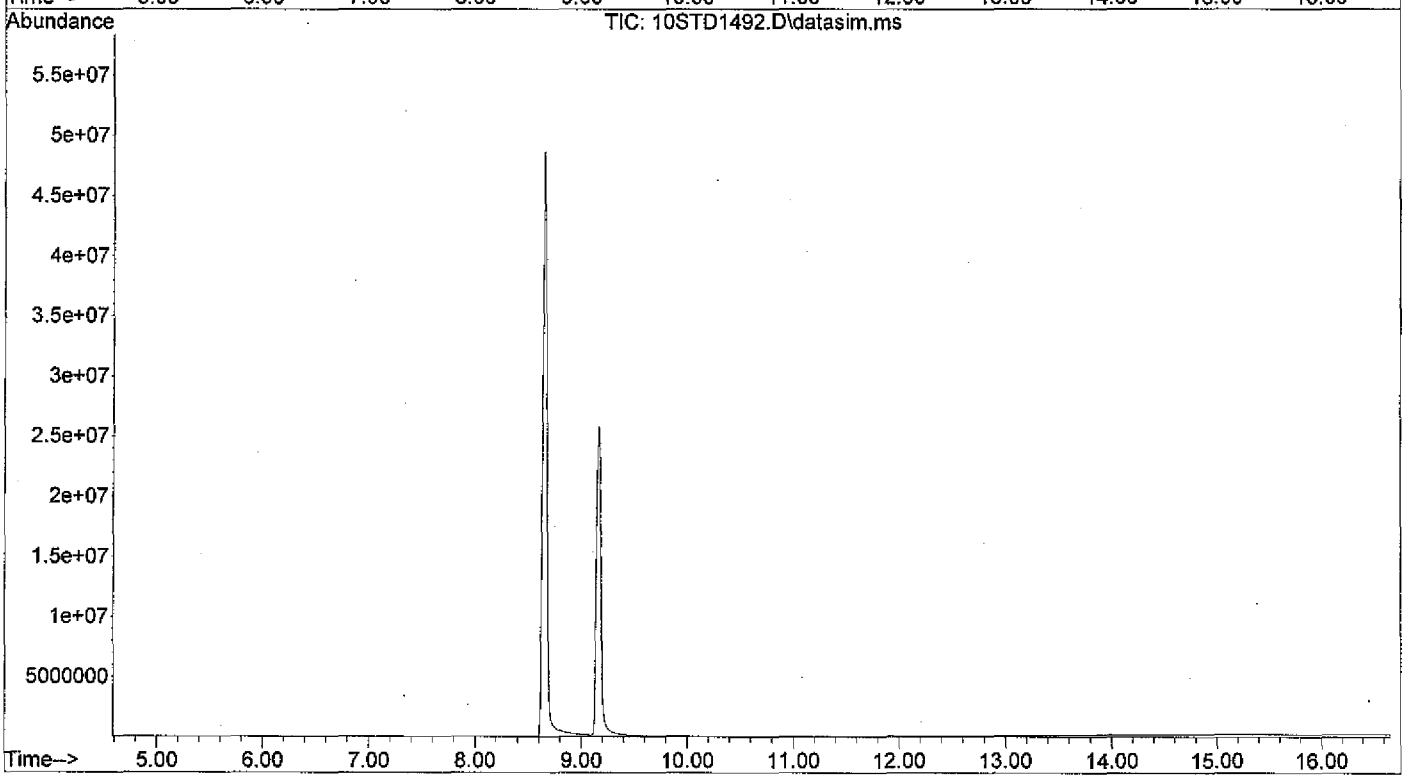
MW

Quantitation Report (Not Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1492.D
Acq On : 24 May 2012 6:16 pm
Operator : DG
Sample : 200 UG/ML GLYCOLS Inst : Betty
Misc : 2052302
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 15:49:06 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1493.D
Acq On : 24 May 2012 6:34 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Betty
Misc : 2032806 - ALT S
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 12:37:34 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12:28:19 2012
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Qvalue Dev(Min)
Target Compounds					
1) Propylene Glycol	8.646	45	24047259	31.167 ug/ml#	81 (24.7)
2) Ethylene Glycol	9.156	31	13185650	30.785 ug/ml#	88 (23.1)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

17.5 – 32.5

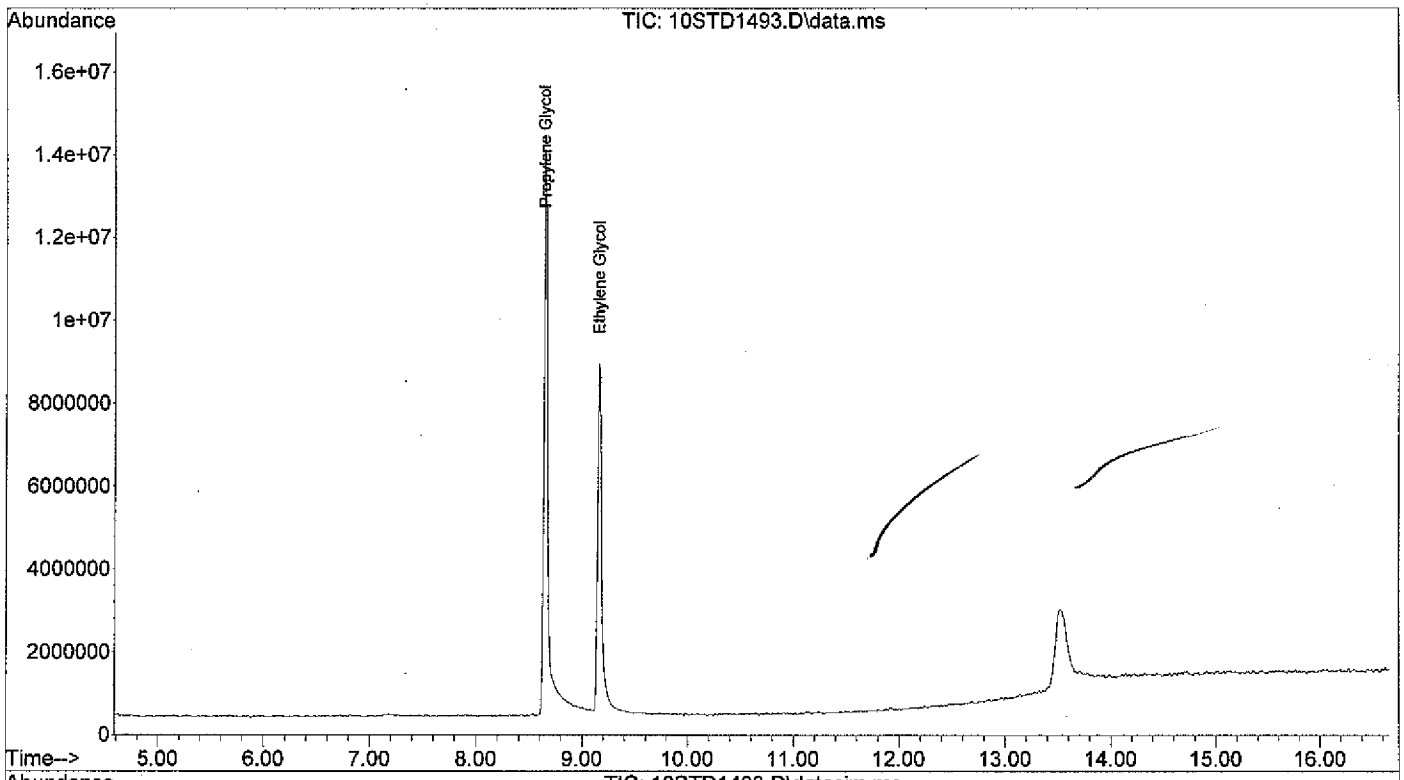
ok for A.S.

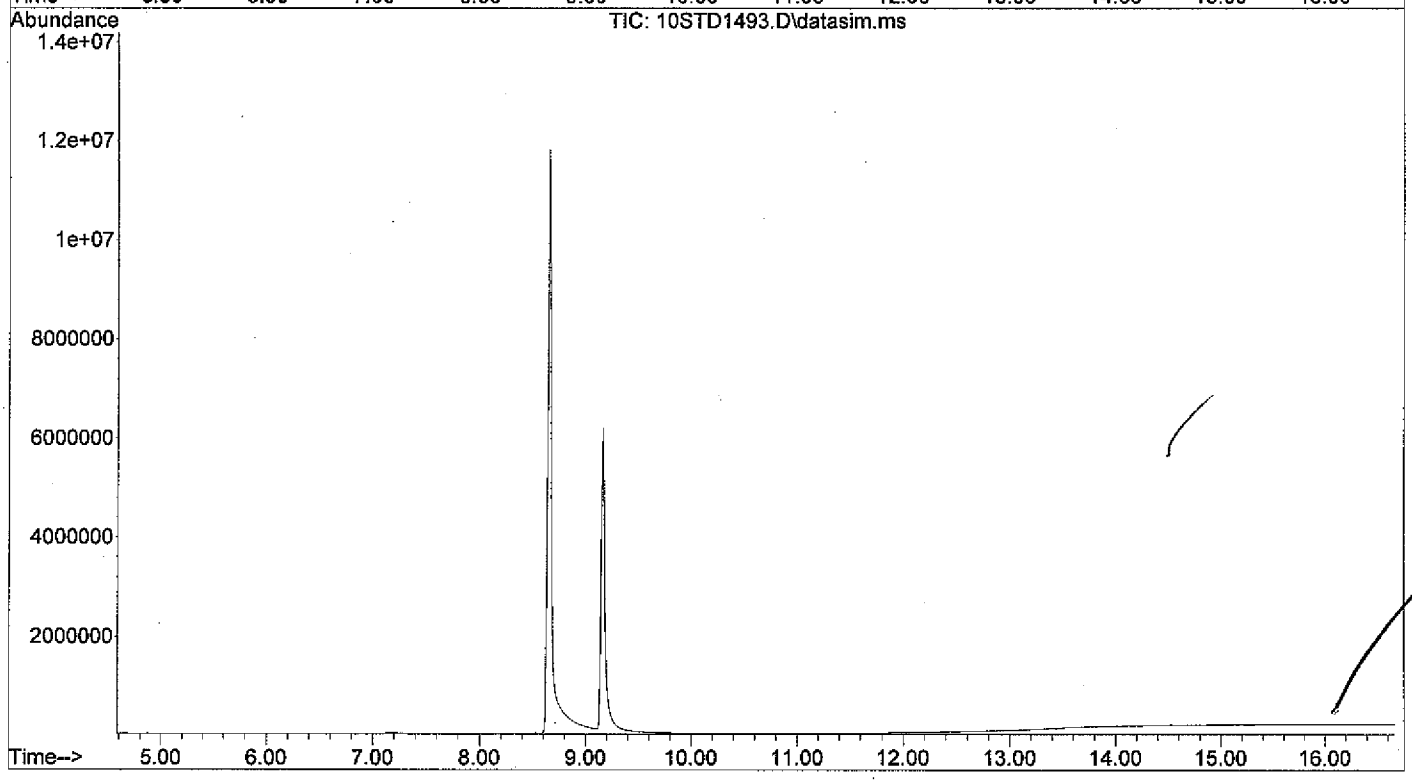
ALT SOURCE

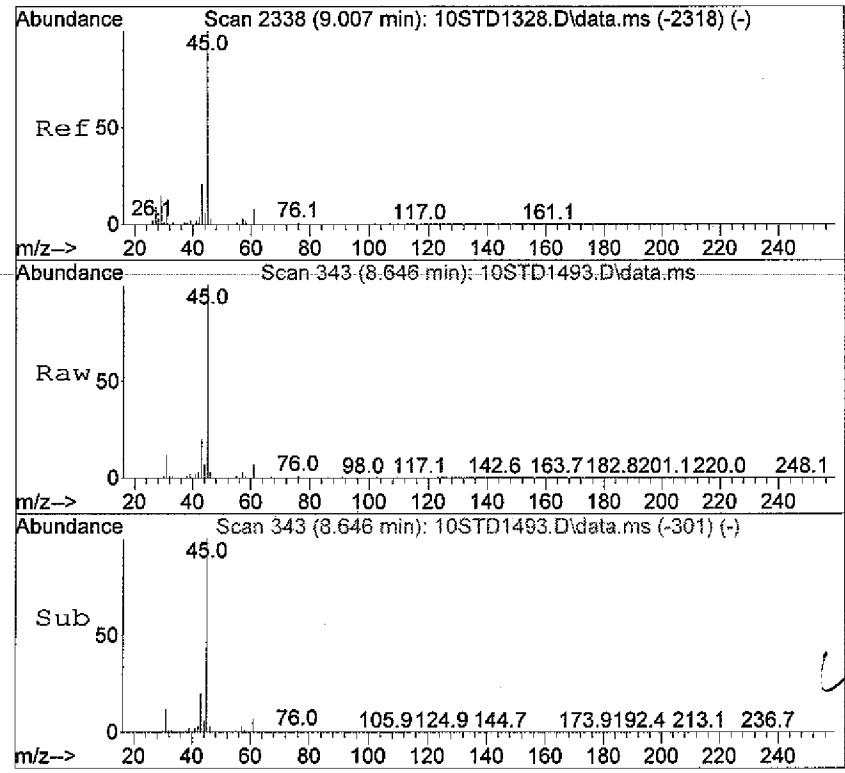
Quantitation Report (QT Reviewed)

Data Path : D:\1\DATA\12_0524B\
Data File : 10STD1493.D
Acq On : 24 May 2012 6:34 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Betty
Misc : 2032806 - ALT S
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 12:37:34 2012
Quant Method : D:\1\METHODS\GLYCOLS 052412..M
Quant Title : Propylene Glycol and Ethylene Glycol by direct injThu May 31 12
QLast Update : Thu May 31 12:28:27 2012
Response via : Initial Calibration



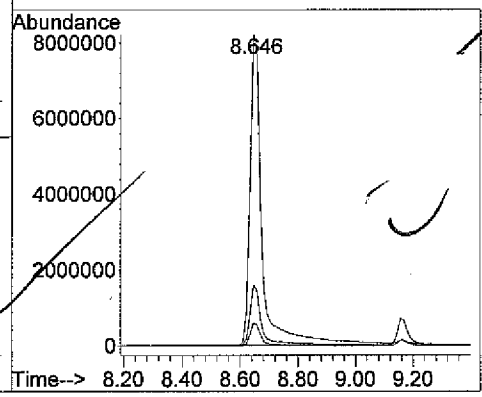


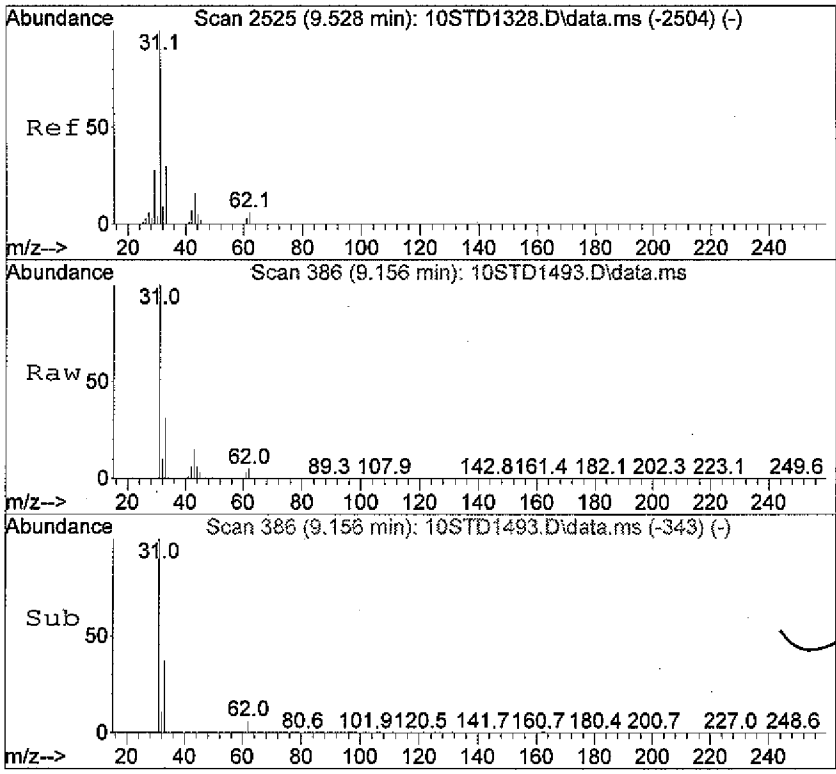


#1
Propylene Glycol
Concen: 31.167 ug/ml
RT: 8.646 min Scan# 343
Delta R.T. 0.000 min
Lab File: 10STD1493.D
Acq: 24 May 2012 6:34 pm

Tgt Ion: 45 Resp:24047259

Ion	Ratio	Lower	Upper
45	100		
43	19.5	24.0	41.2#
61	7.4	0.0	16.3

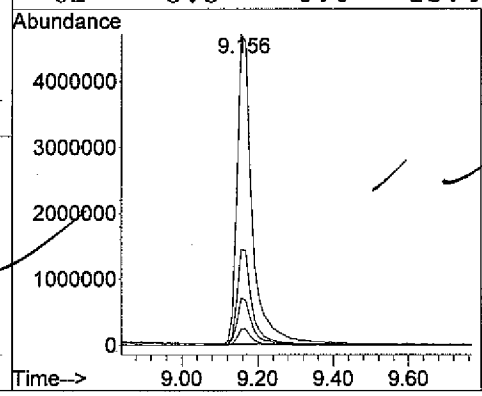




#2
Ethylene Glycol
Concen: 30.785 ug/ml
RT: 9.156 min Scan# 386
Delta R.T. 0.012 min
Lab File: 10STD1493.D
Acq: 24 May 2012 6:34 pm

Tgt Ion: 31 Resp:13185650

Ion	Ratio	Lower	Upper
31	100		
33	30.9	24.1	42.3
43	14.8	18.4	36.6#
62	5.3	0.0	15.4



Response Factor Report Sally

Method Path : C:\msdchem\1\METHODS\
Method File : GLYCOLS 052912.M
Title : Glycols by direct injection
Last Update : Wed May 30 07:26:43 2012
Response Via : Initial Calibration

Calibration Files
1 =8STD5786.D 2 =8STD5787.D 5 =8STD5788.D 10 =8STD5789.D 25 =8STD5790.D 50 =8STD5791.D
100 =8STD5792.D

	Compound	1	2	5	10	25	50	100	Avg	%RSD
1)	Propylene glycol	0.960	0.825	0.886	0.862	0.961	1.016	1.088	0.943 E5	9.74
2)	Ethylene glycol	5.163	4.824	5.241	5.025	5.429	6.213	6.820	5.531 E4	13.02

(#) = Out of Range

- Data Not used
- chromatography degraded after BS shot
- PG ND in 2, 5 ug/ml and CC's
- EG ND in 2 ug/ml and CC

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5786.D
Acq On : 29 May 2012 2:09 pm
Operator : DG
Sample : 1 UG/ML GLYCOLS Inst : Sally
Misc : 2052310
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 14:26:15 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 13:20:09 2012
Response via : Continuing Cal File: C:\msdchem\1\DATA\12_0307\8STD5720.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds	Qvalue

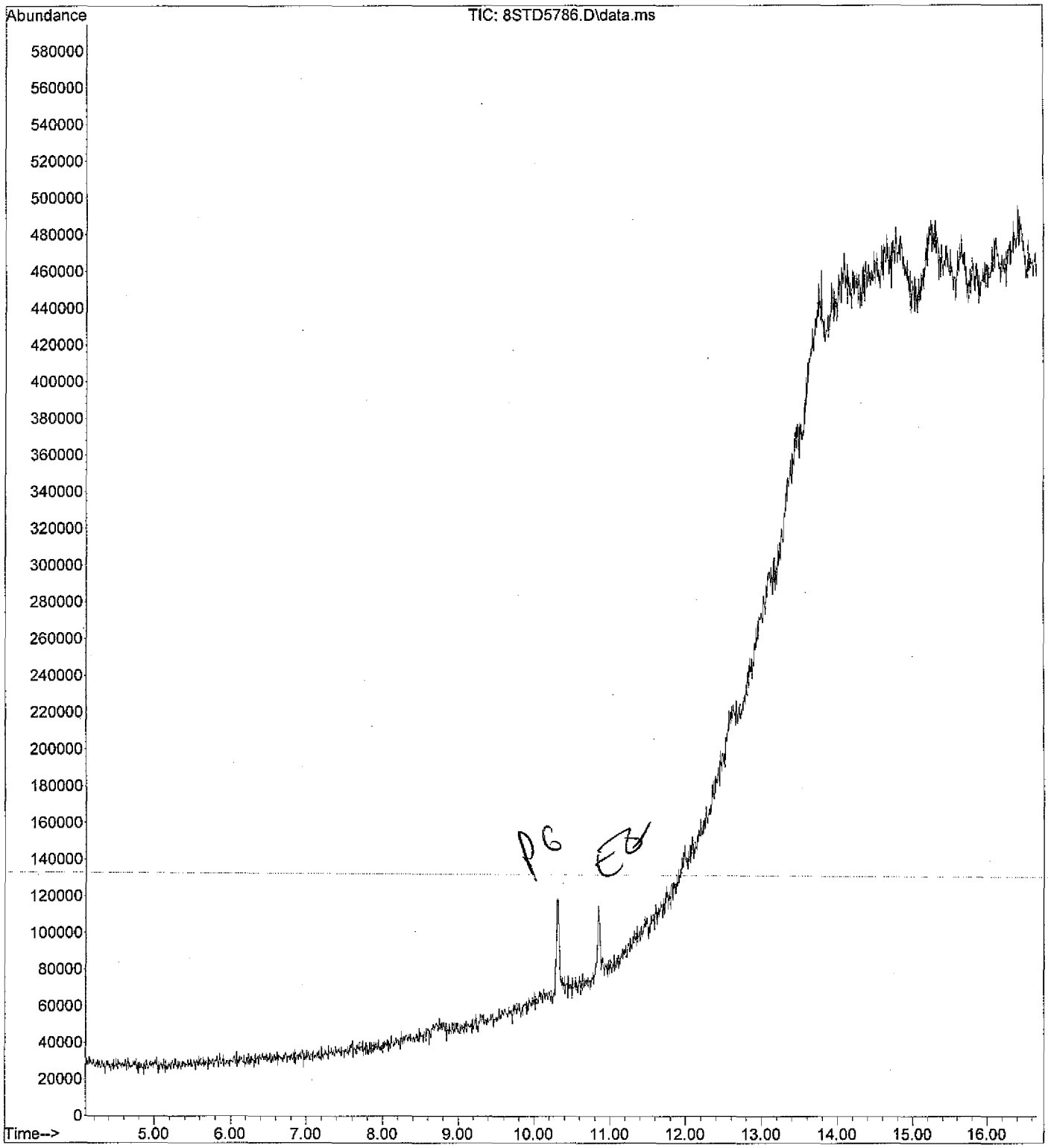
(#) = qualifier out of range (m) = manual integration (+) = signals summed

NO ALERTS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5786.D
Acq On : 29 May 2012 2:09 pm
Operator : DG
Sample : 1 UG/ML GLYCOLS Inst : Sally
Misc : 2052310
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 14:26:15 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 13:20:09 2012
Response via : Continuing Cal File: C:\msdchem\1\DATA\12_0307\8STD5720.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5787.D
Acq On : 29 May 2012 2:29 pm
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Sally
Misc : 2052309
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 14:53:25 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 14:26:40 2012
Response via : Continuing Cal File: C:\msdchem\1\DATA\12_0307\8STD5720.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds Qvalue

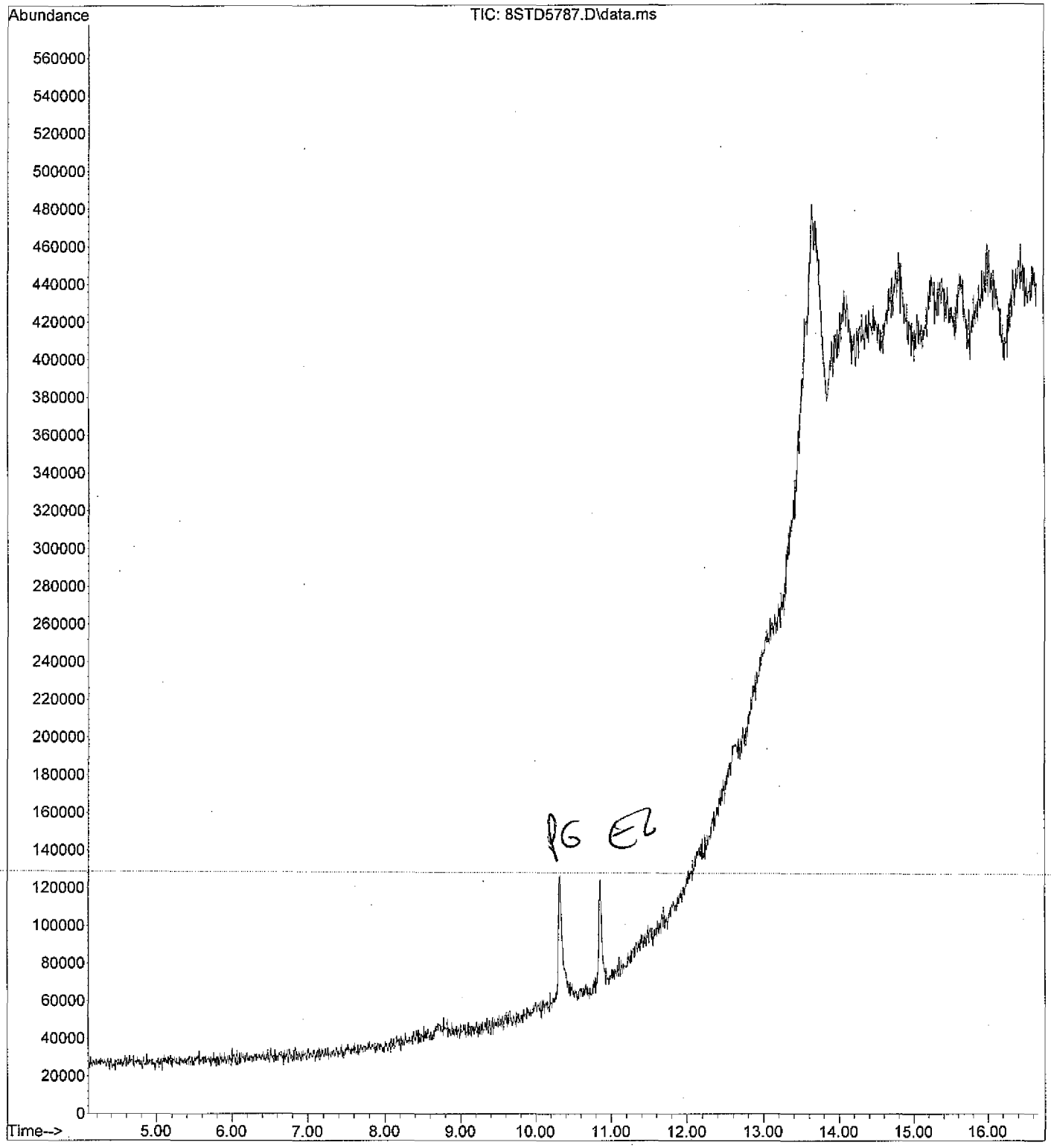
(#) = qualifier out of range (m) = manual integration (+) = signals summed

No ALERT

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5787.D
Acq On : 29 May 2012 2:29 pm
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Sally
Misc : 2052309
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 14:53:25 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 14:26:40 2012
Response via : Continuing Cal File: C:\msdchem\1\DATA\12_0307\8STD5720.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5788.D
Acq On : 29 May 2012 2:48 pm
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Sally
Misc : 2052308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 15:26:51 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 14:53:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	10.302	45	442978m	4.964	ug/ml	
2) Ethylene glycol	10.840	31	262051	5.248	ug/ml#	15

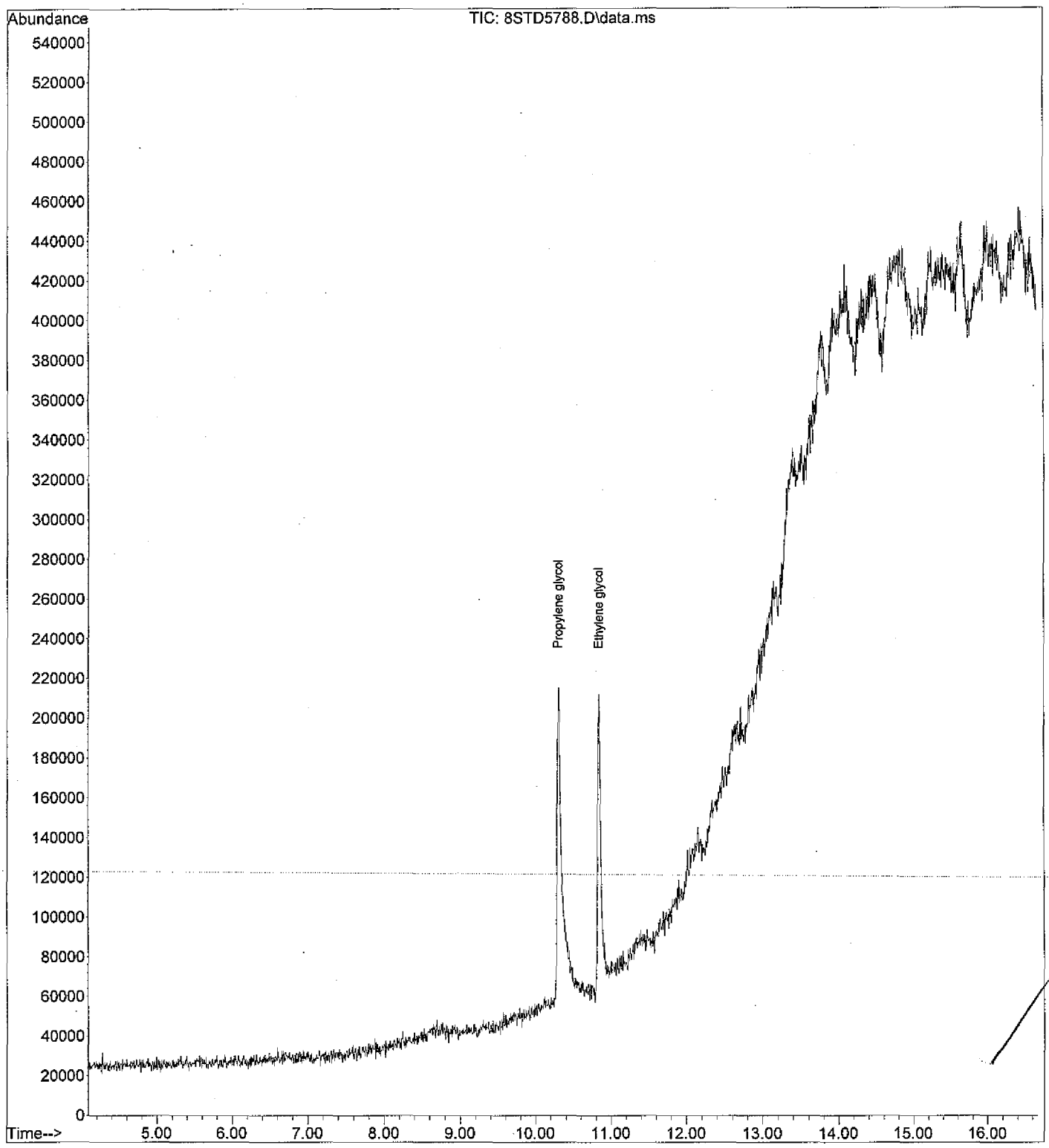
not used

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5788.D
Acq On : 29 May 2012 2:48 pm
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Sally
Misc : 2052308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 15:26:51 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 14:53:39 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5789.D
Acq On : 29 May 2012 3:08 pm
Operator : DG
Sample : 10 UG/ML GLYCOLS Inst : Sally
Misc : 2052307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:27:18 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:27:05 2012
Response via : Initial Calibration

No fuel

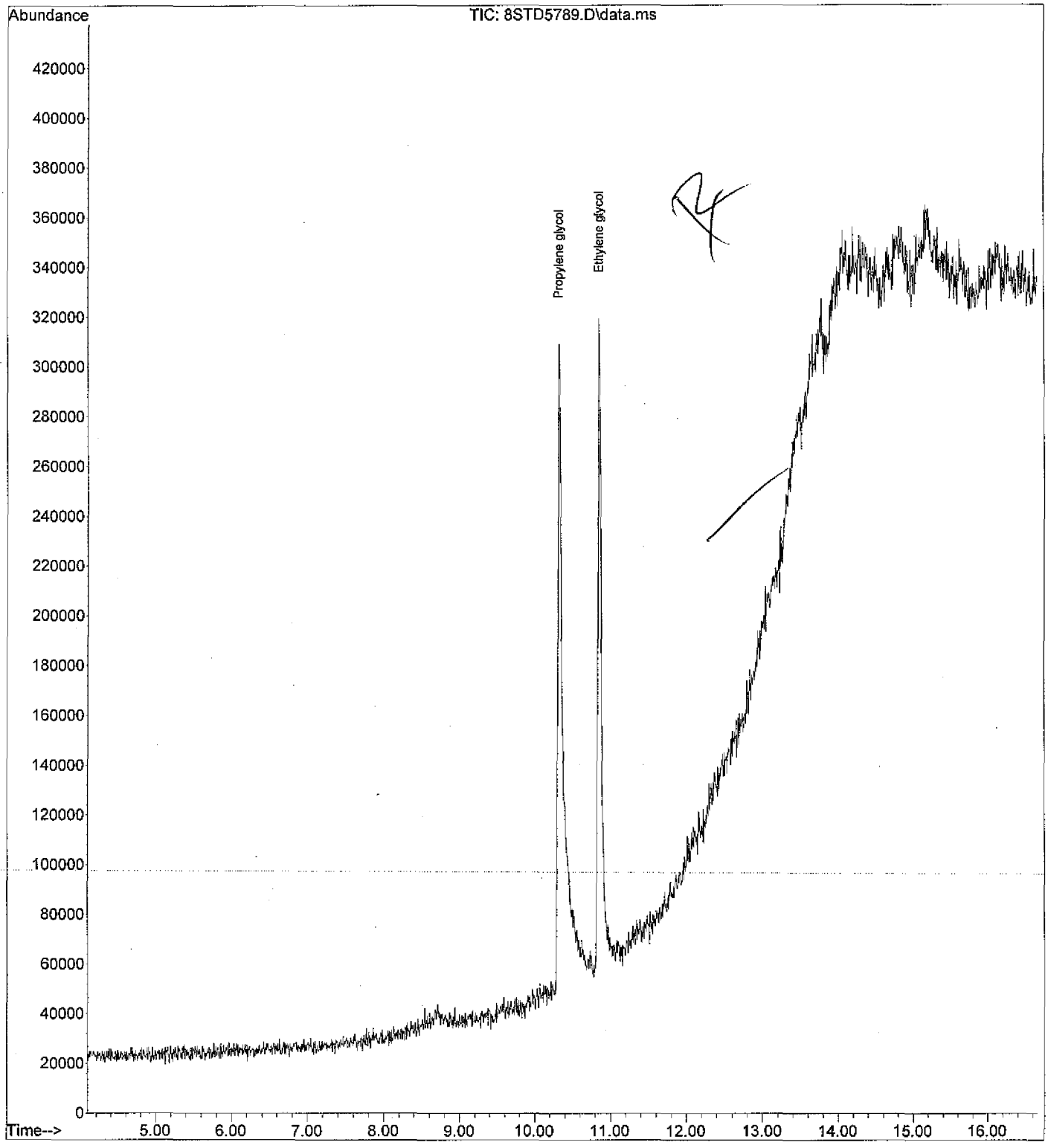
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene glycol	10.323	45	862399m	9.687 ug/ml	
2) Ethylene glycol	10.856	31	502470	9.899 ug/ml#	16

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5789.D
Acq On : 29 May 2012 3:08 pm
Operator : DG
Sample : 10 UG/ML GLYCOLS Inst : Sally
Misc : 2052307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:27:18 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:27:05 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5790.D
Acq On : 29 May 2012 3:28 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Sally
Misc : 2052306
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 15:58:39 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:27:29 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene glycol	10.302	45	2401959m	27.194 ug/ml	
2) Ethylene glycol	10.840	31	1357190	26.805 ug/ml#	16

not used

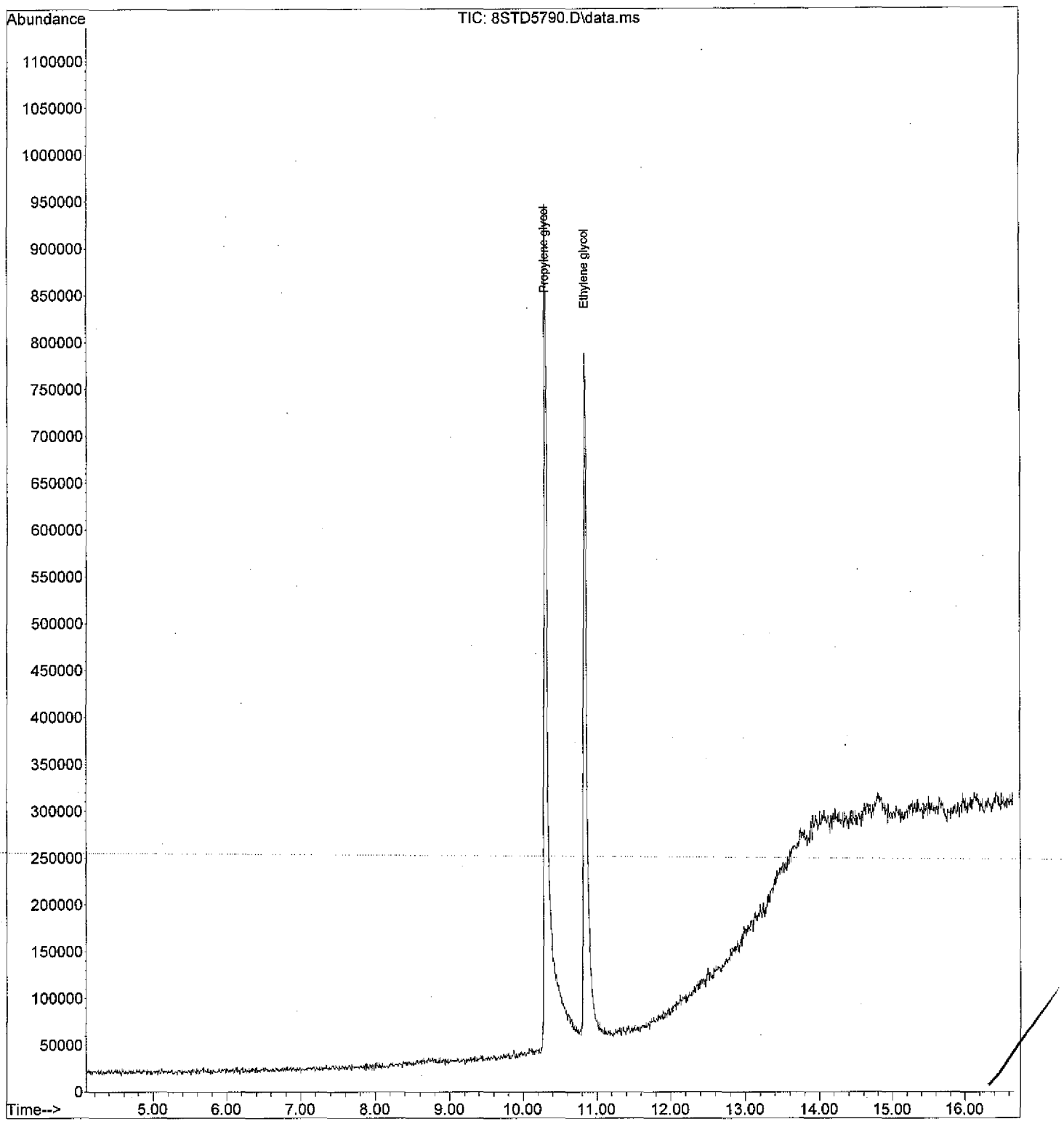
(#) = qualifier out of range (m) = manual integration (+) = signals summed

X

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5790.D
Acq On : 29 May 2012 3:28 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Sally
Misc : 2052306
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 15:58:39 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:27:29 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5792.D
Acq On : 29 May 2012 4:07 pm
Operator : DG
Sample : 100 UG/ML GLYCOLS Inst : Sally
Misc : 2052304
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 07:26:27 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:59:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	10.302	45	10875805m (+)	118.431	ug/ml	
2) Ethylene glycol	10.835	31	6819897	128.296	ug/ml#	16

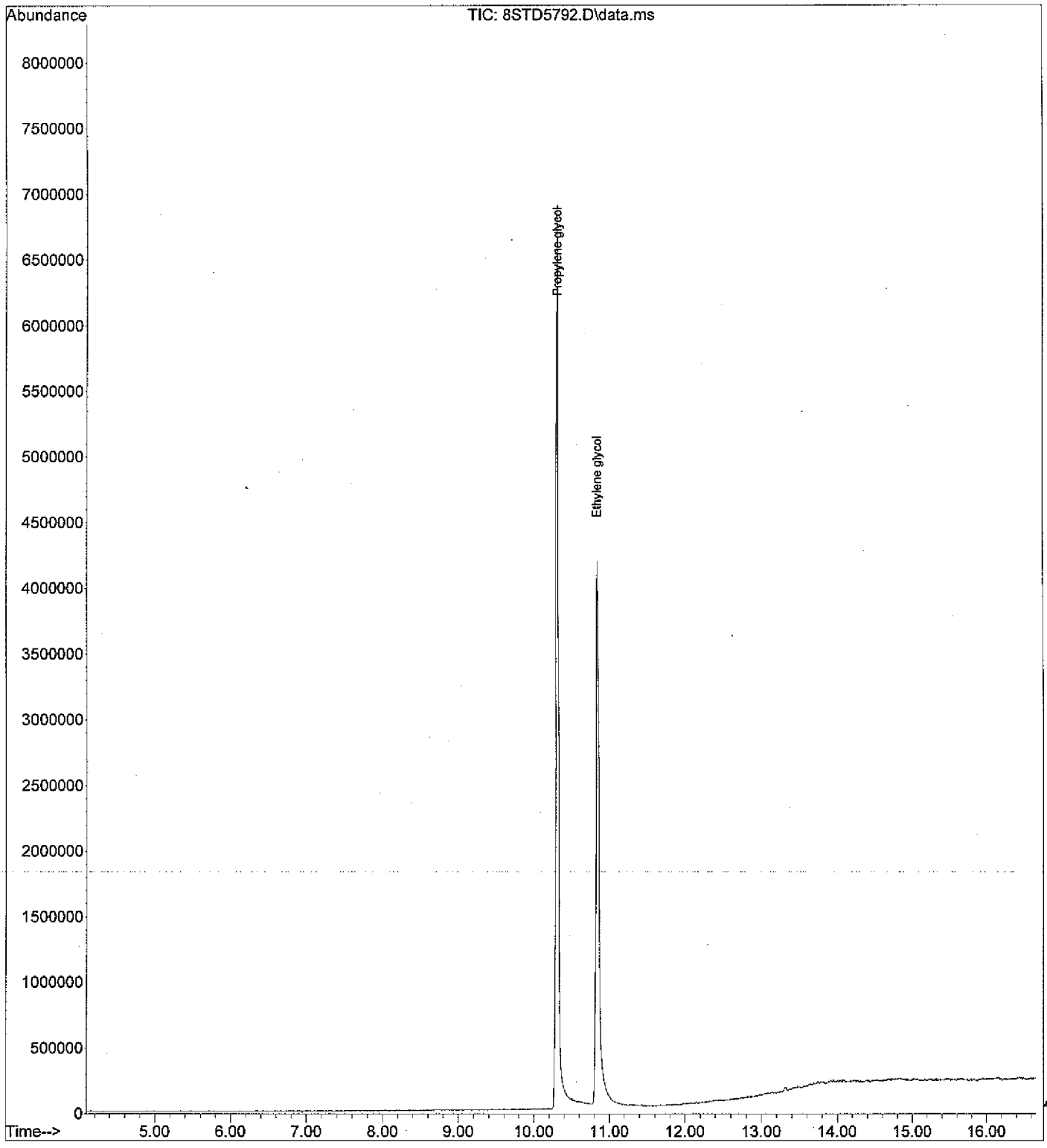
Not used

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5792.D
Acq On : 29 May 2012 4:07 pm
Operator : DG
Sample : 100 UG/ML GLYCOLS Inst : Sally
Misc : 2052304
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 07:26:27 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:59:37 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5793.D
Acq On : 29 May 2012 4:27 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Sally
Misc : 2032806
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 04 10:33:58 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	10.323	45	2425781m	25.738	ug/ml	
2) Ethylene glycol	10.851	31	1672719	30.245	ug/ml#	16

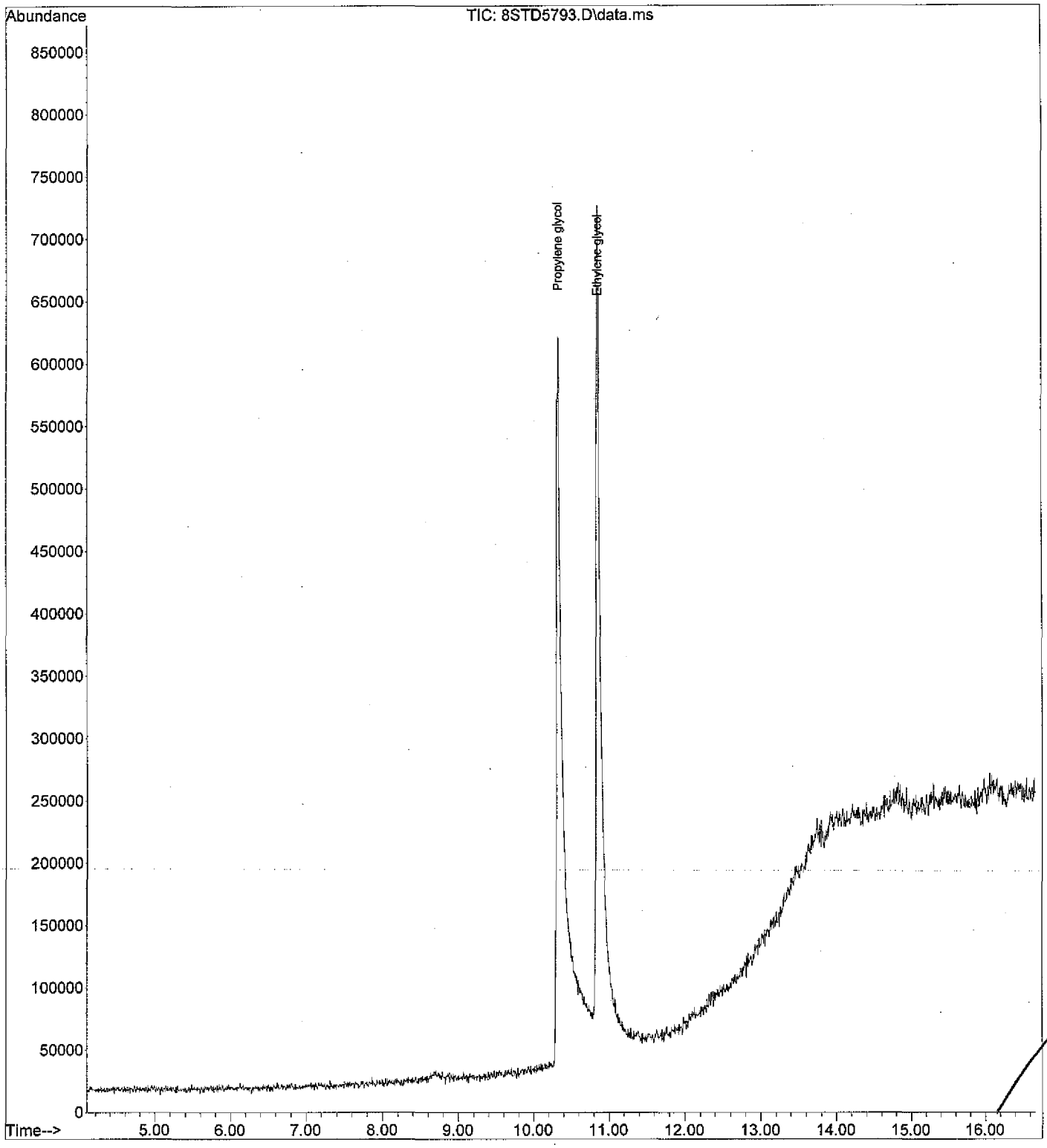
No trace

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5793.D
Acq On : 29 May 2012 4:27 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Sally
Misc : 2032806
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 04 10:33:58 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\Snapshot\
Data File : 8STD5791.D
Acq On : 29 May 2012 3:47 pm
Operator : DG
Sample : 50 UG/ML GLYCOLS Inst : Sally
Misc : 2052305
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 15:59:17 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:58:52 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	10.302	45	5080265m	56.524	ug/ml	
2) Ethylene glycol	10.840	31	3106590	60.483	ug/ml#	16

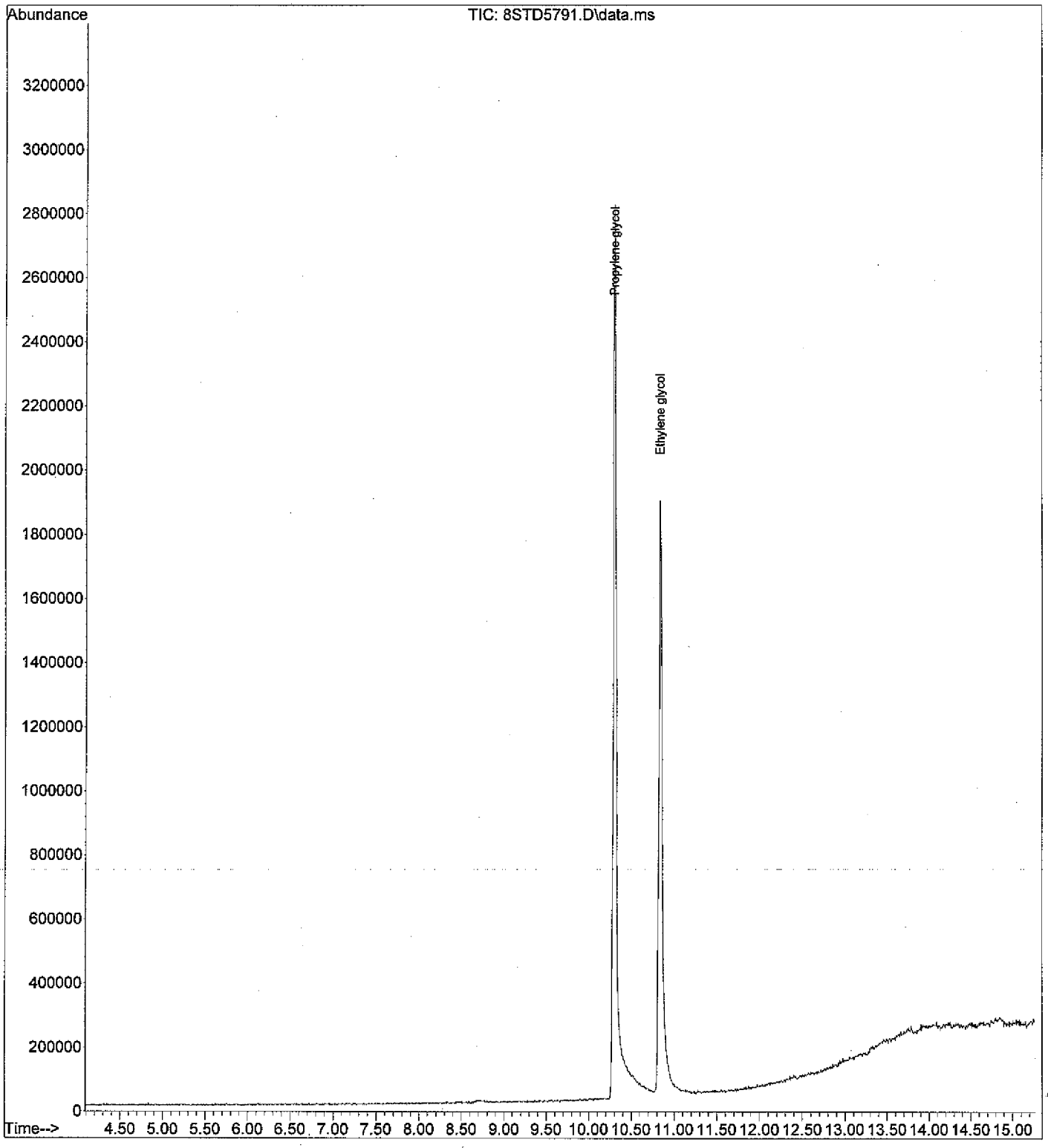
no fuel

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\Snapshot\
Data File : 8STD5791.D
Acq On : 29 May 2012 3:47 pm
Operator : DG
Sample : 50 UG/ML GLYCOLS Inst : Sally
Misc : 2052305
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 15:59:17 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:58:52 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5792.D
Acq On : 29 May 2012 4:07 pm
Operator : DG
Sample : 100 UG/ML GLYCOLS Inst : Sally
Misc : 2052304
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 07:26:27 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:59:37 2012
Response via : Initial Calibration

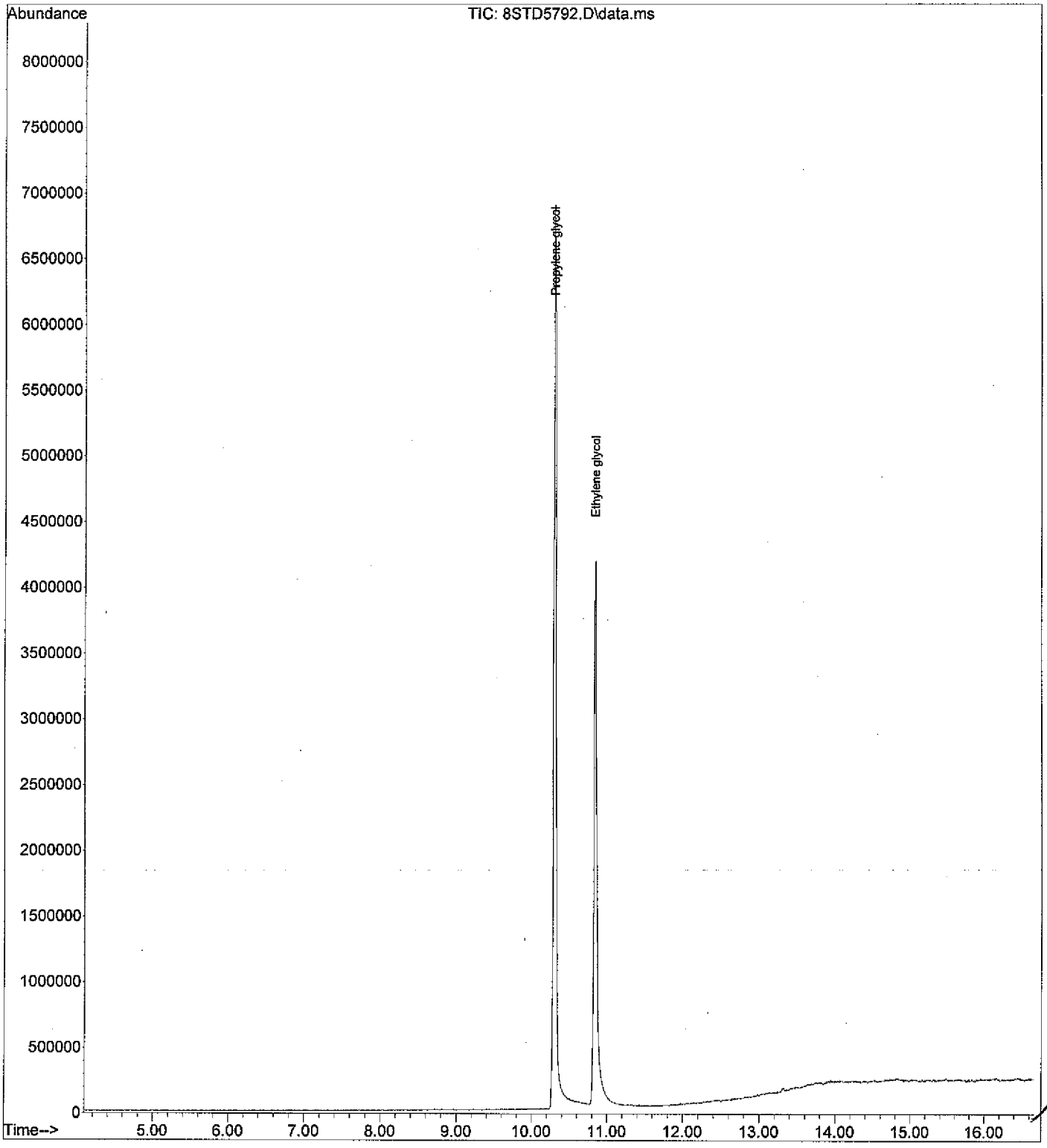
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	10.302	45	10875805(m)	118.431	ug/ml	
2) Ethylene glycol	10.835	31	6819897	128.296	ug/ml#	16

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5792.D
Acq On : 29 May 2012 4:07 pm
Operator : DG
Sample : 100 UG/ML GLYCOLS Inst : Sally
Misc : 2052304
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 07:26:27 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS.M
Quant Title : Glycols by direct injection
QLast Update : Tue May 29 15:59:37 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5806.D
Acq On : 29 May 2012 8:43 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Sally
Misc : 2052306
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 10:31:36 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	11.399	45	1552865(m)	16.476	ug/ml	
2) Ethylene glycol	11.081	31	1476990(m)	26.706	ug/ml	

no tuned

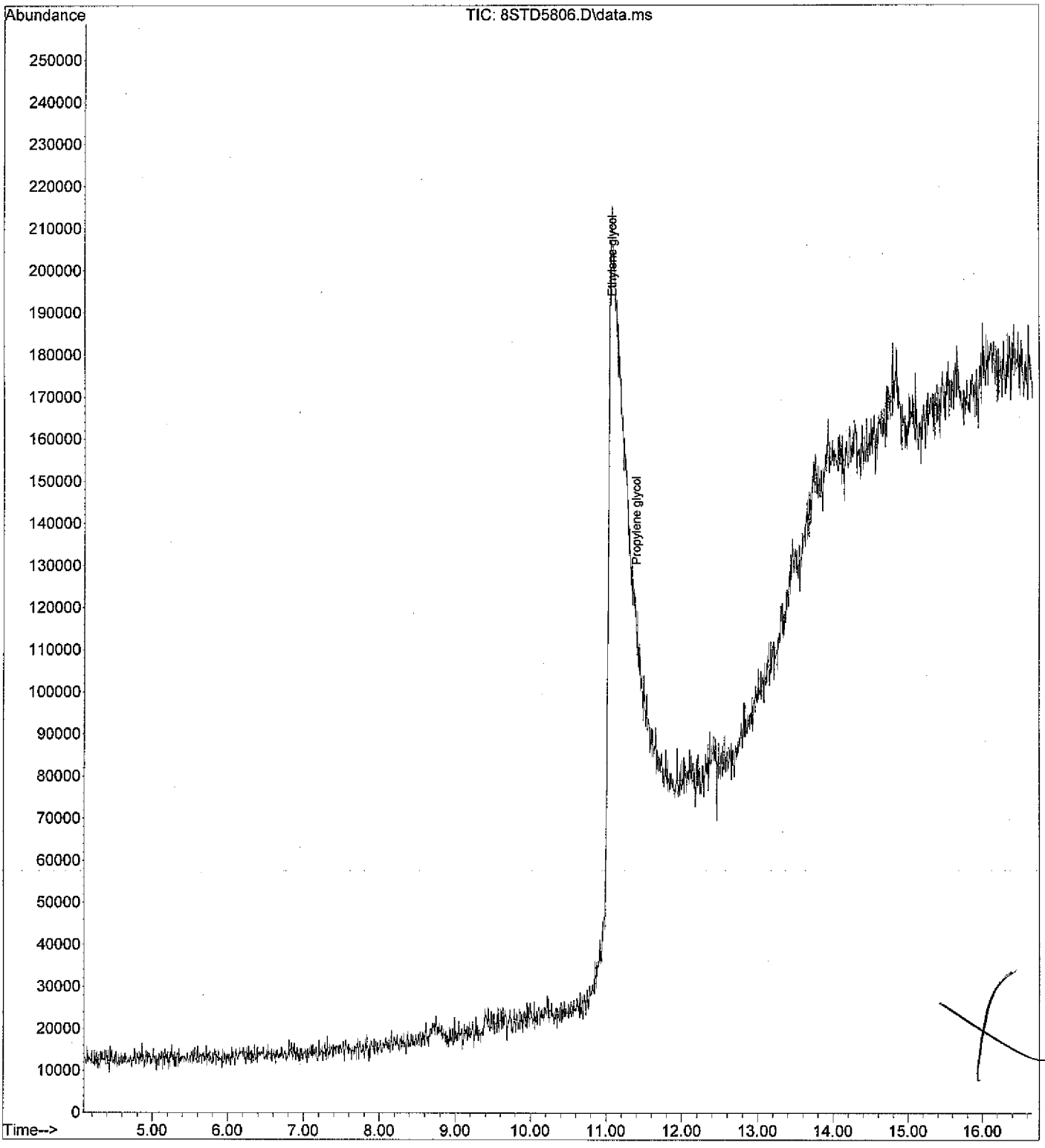
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Poor Chrom after BS shot

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5806.D
Acq On : 29 May 2012 8:43 pm
Operator : DG
Sample : 25 UG/ML GLYCOLS Inst : Sally
Misc : 2052306
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 10:31:36 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5807.D
Acq On : 29 May 2012 9:03 pm
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Sally
Misc : 2052309
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 07:27:25 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

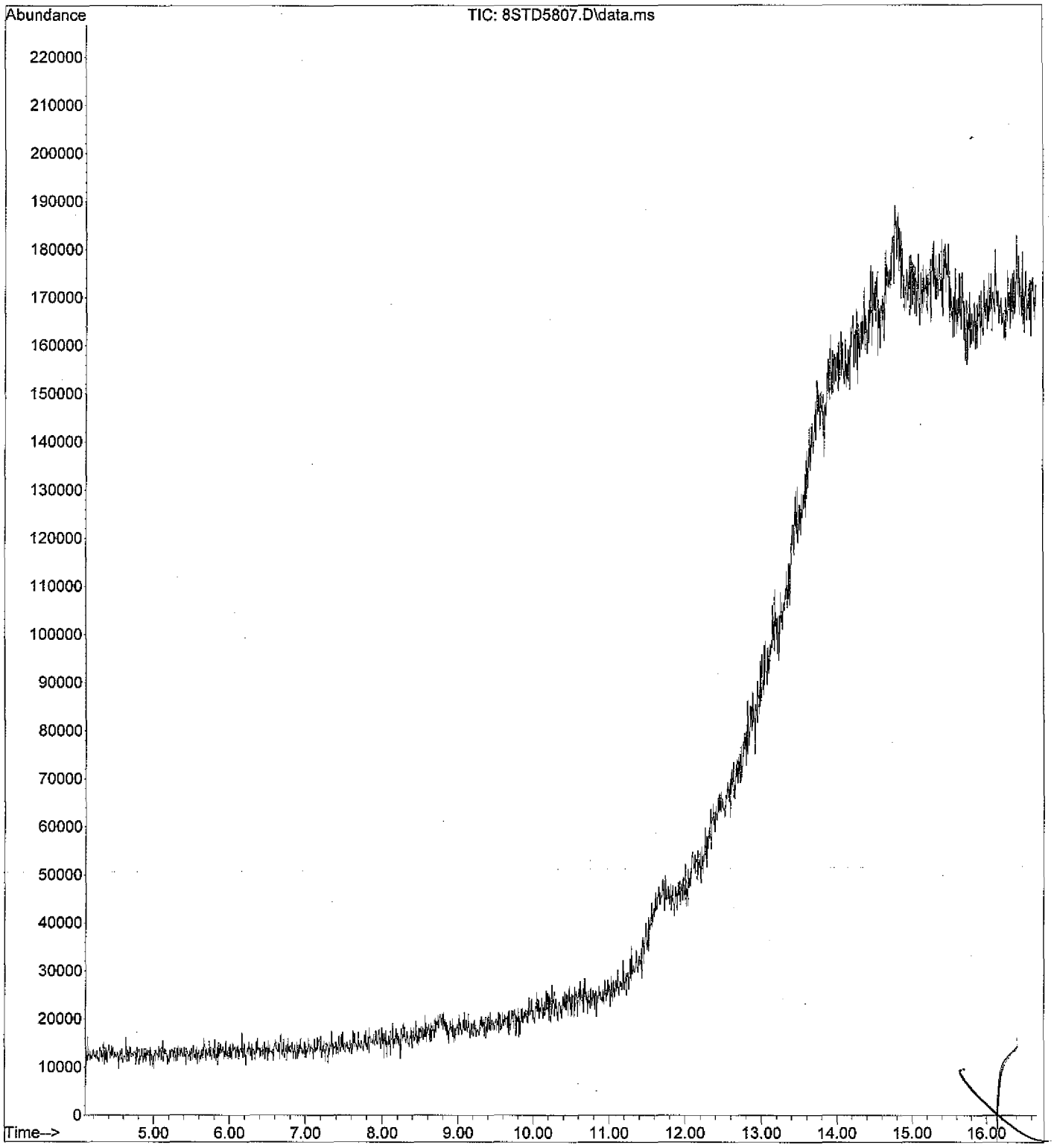
NDs for

DIM0096011 DIM0096147

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5807.D
Acq On : 29 May 2012 9:03 pm
Operator : DG
Sample : 2 UG/ML GLYCOLS Inst : Sally
Misc : 2052309
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 07:27:25 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5808.D
Acq On : 30 May 2012 7:36 am
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Sally
Misc : 2052308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 10:31:02 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) Ethylene glycol	11.465	31	31694m	5.731	ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

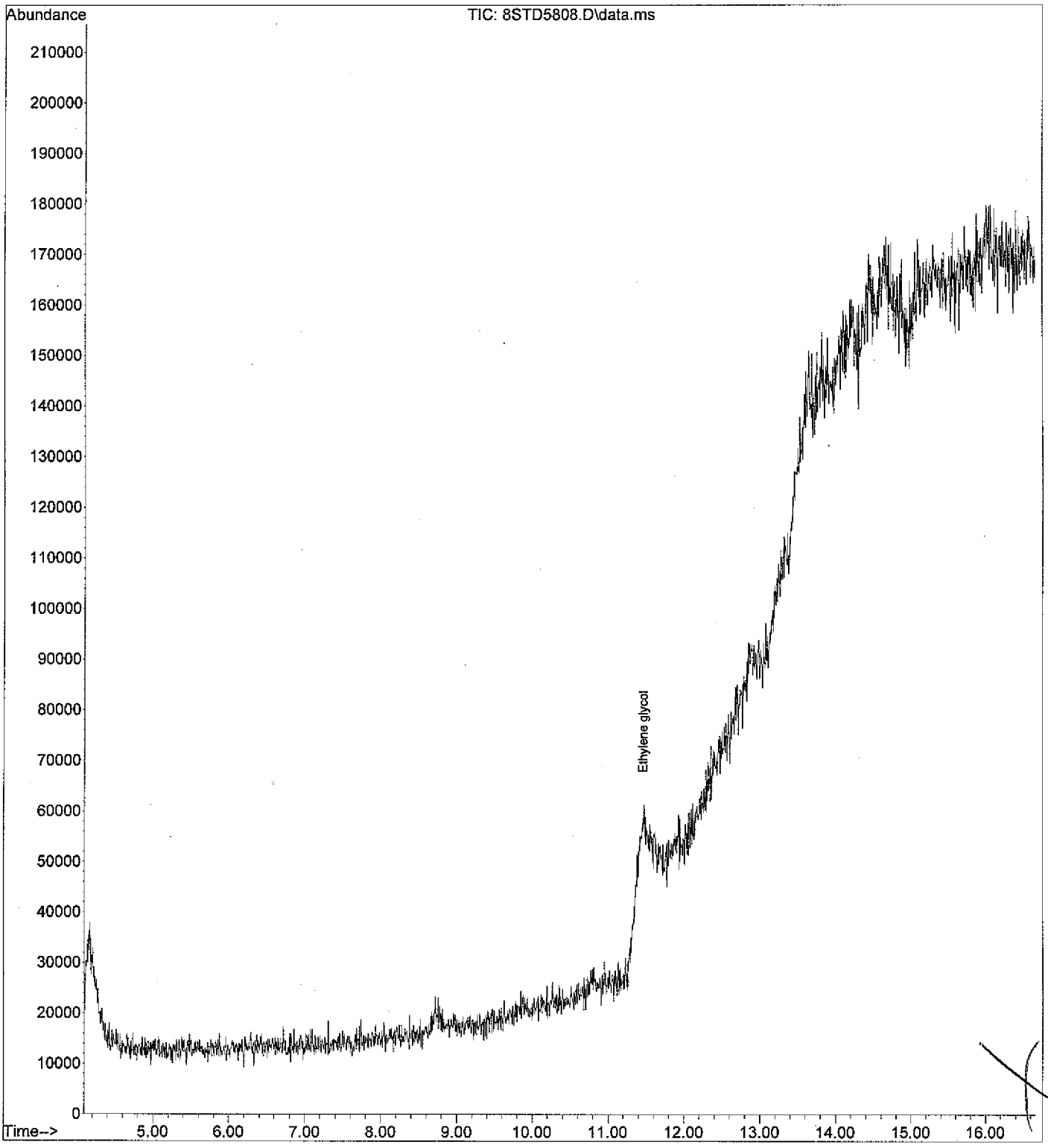
ND for PE

GLYCOLS 052912.M Mon Jun 04 10:34:56 2012 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8STD5808.D
Acq On : 30 May 2012 7:36 am
Operator : DG
Sample : 5 UG/ML GLYCOLS Inst : Sally
Misc : 2052308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 10:31:02 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5794.D
Acq On : 29 May 2012 4:47 pm
Operator : DG
Sample : B2E2402-BS1 Inst : Sally
Misc : DIMOCK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 07:31:26 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene glycol	10.645	45	1063573m	11.285 ug/m	
2) Ethylene glycol	10.917	31	600669m	10.861 ug/m	

not used

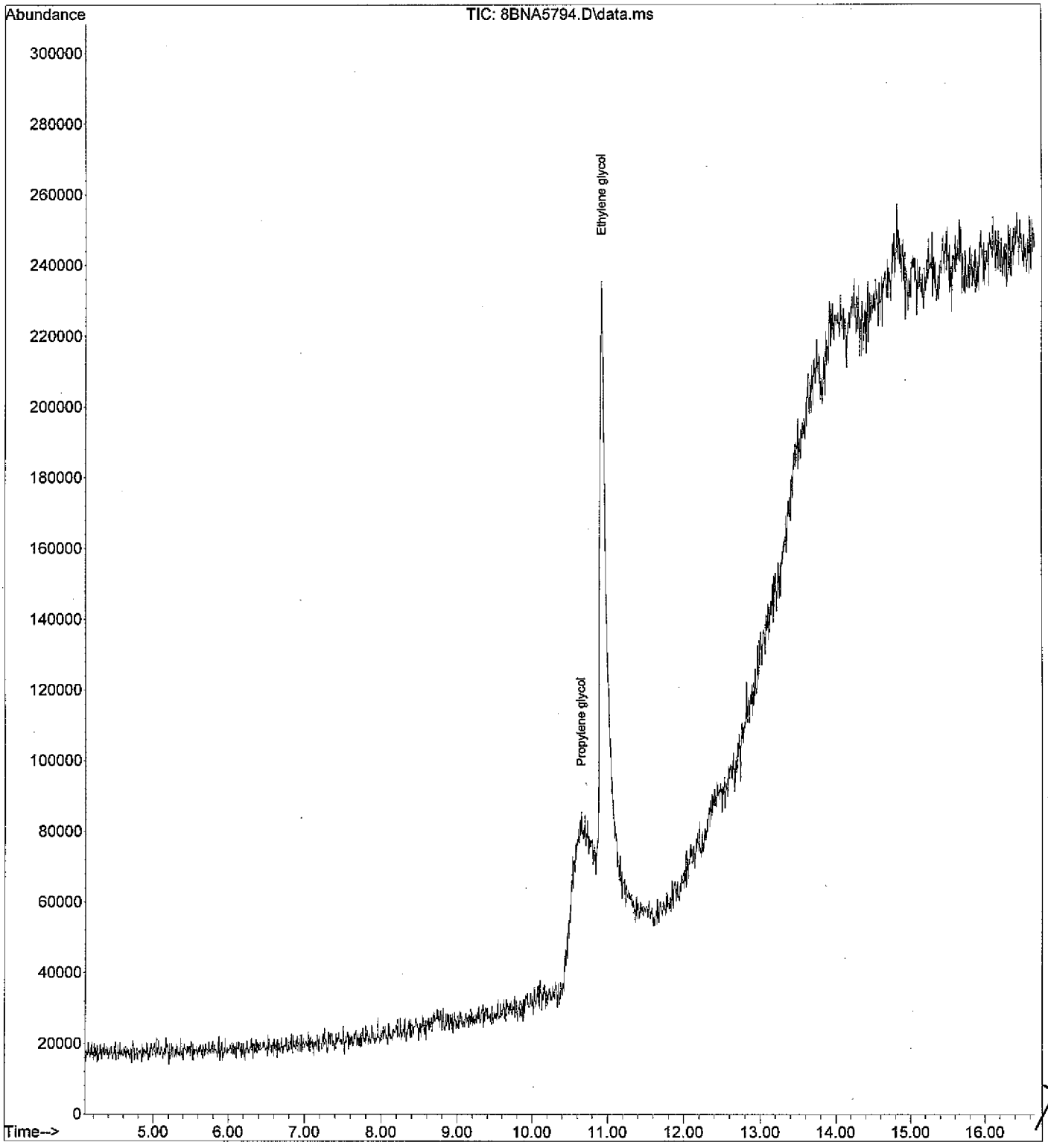
(#) = qualifier out of range (m) = manual integration (+) = signals summed

- This was made from same source of water & cal's Std's.
- unknown why Chromatography degrades after this shot.
- data not used

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5794.D
Acq On : 29 May 2012 4:47 pm
Operator : DG
Sample : B2E2402-BS1 Inst : Sally
Misc : DIMOCK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 07:31:26 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5795.D
Acq On : 29 May 2012 5:06 pm
Operator : DG
Sample : B2E2402-MS1 Inst : Sally
Misc : DIMOCK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 07:31:58 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene glycol	10.804	45	1180855m	12.529 ug/ml	
2) Ethylene glycol	10.938	31	710936m	12.854 ug/ml	

not used

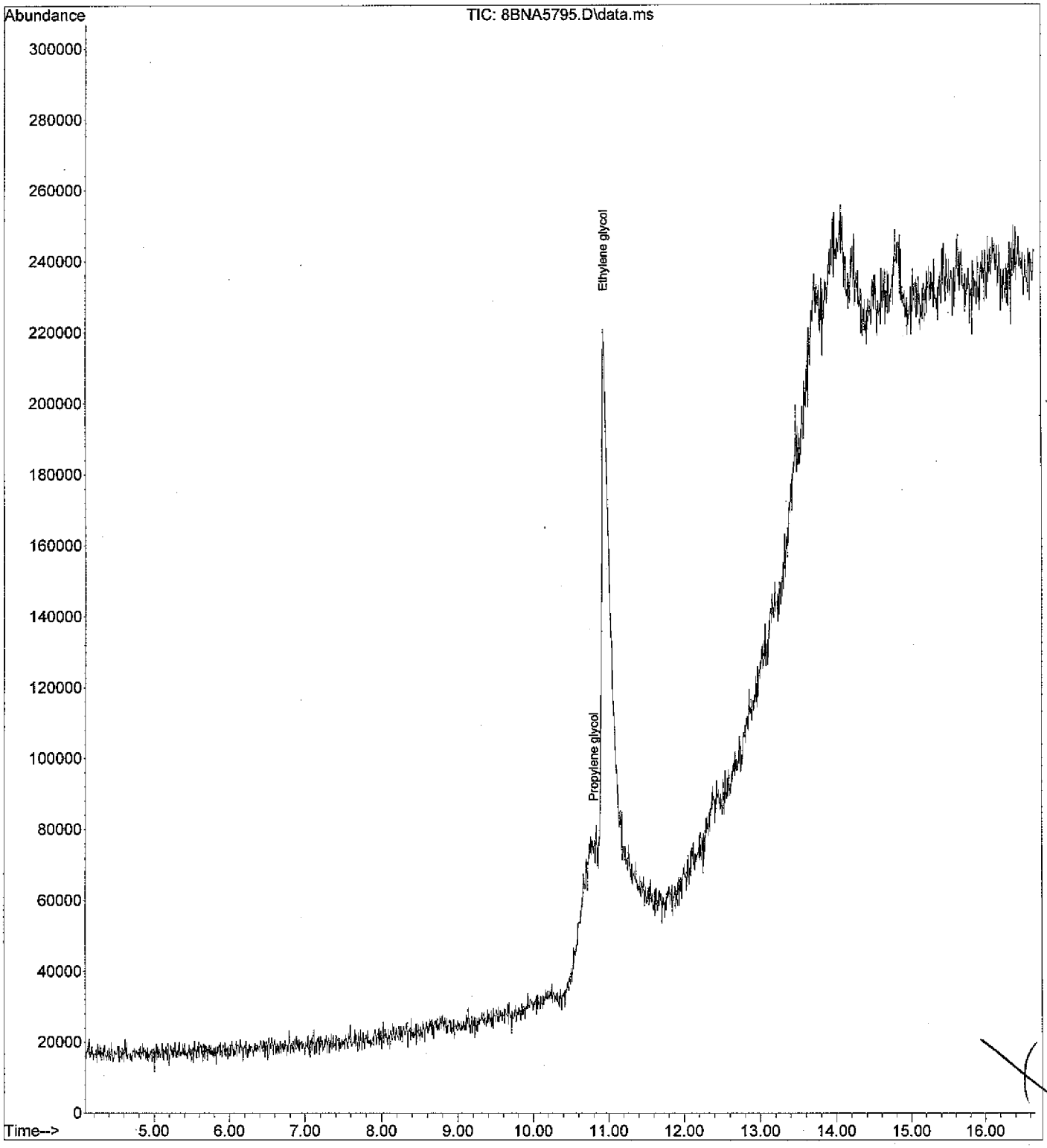
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Poor chrom.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5795.D
Acq On : 29 May 2012 5:06 pm
Operator : DG
Sample : B2E2402-MS1 Inst : Sally
Misc : DIMOCK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 07:31:58 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5796.D
Acq On : 29 May 2012 5:26 pm
Operator : DG
Sample : B2E2402-MSD1 Inst : Sally
Misc : DIMOCK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 07:32:36 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	10.974	45	1134080m	12.033	ug/ml	
2) Ethylene glycol	10.974	31	735754m	13.303	ug/ml	

not used

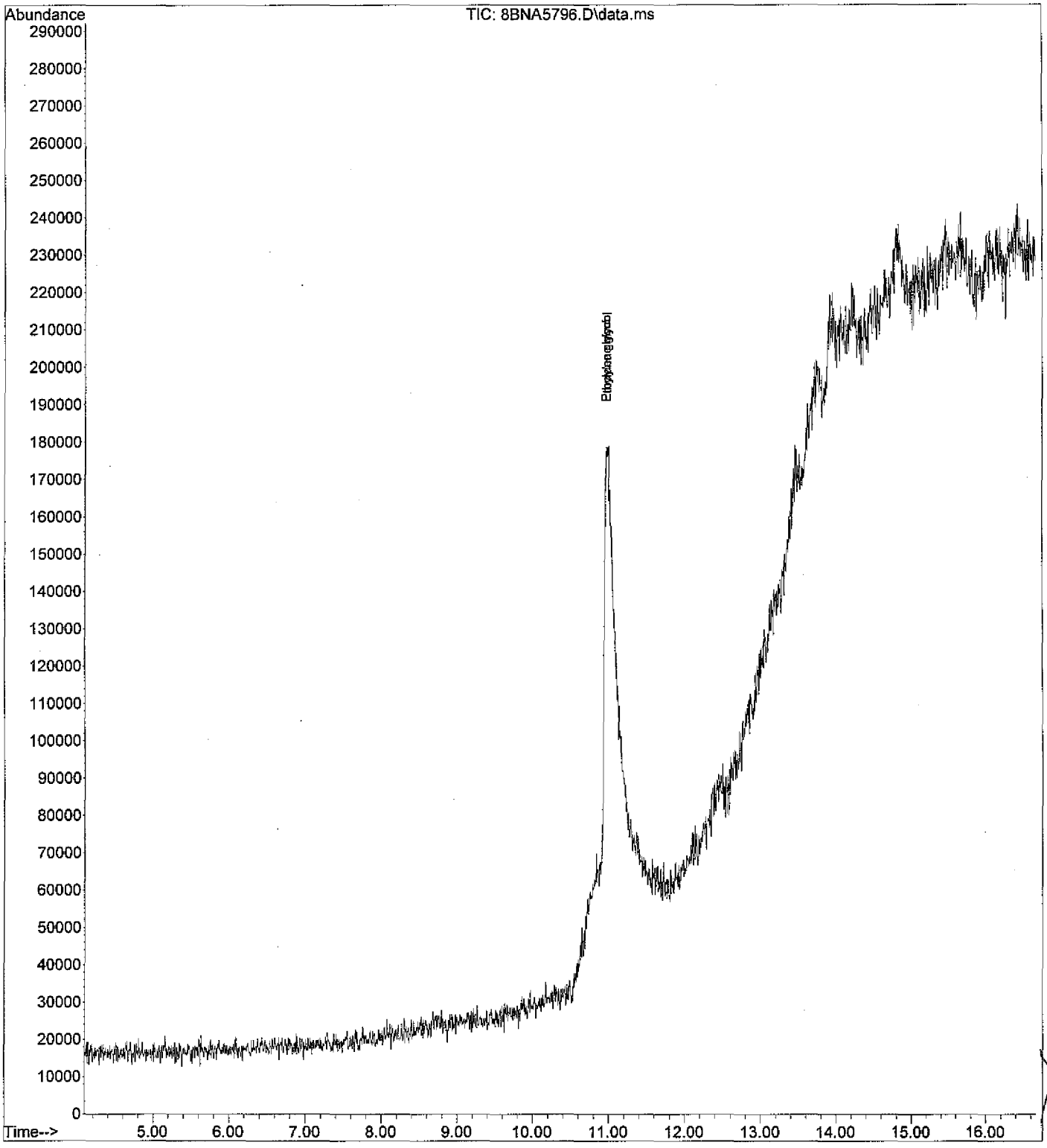
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Poor Chrom.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5796.D
Acq On : 29 May 2012 5:26 pm
Operator : DG
Sample : B2E2402-MSD1 Inst : Sally
Misc : DIMOCK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 07:32:36 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5797.D
Acq On : 29 May 2012 5:46 pm
Operator : DG
Sample : B2E2402-BK1 Inst : Sally
Misc : DIMOCK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 10:37:26 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds	Qvalue

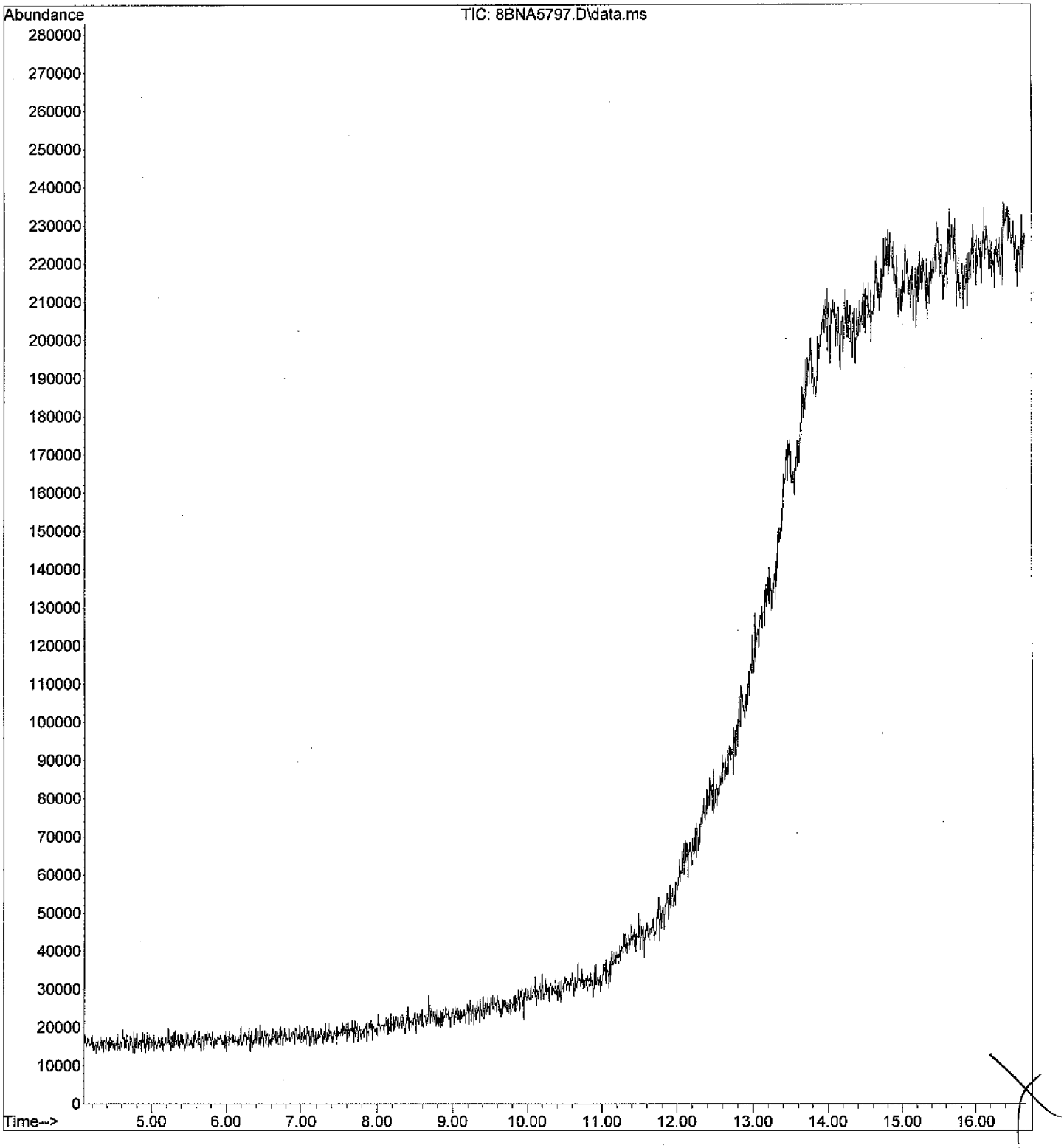
(#) = qualifier out of range (m) = manual integration (+) = signals summed

all ND's

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5797.D
Acq On : 29 May 2012 5:46 pm
Operator : DG
Sample : B2E2402-BK1 Inst : Sally
Misc : DIMOCK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 10:37:26 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5798.D
Acq On : 29 May 2012 6:05 pm
Operator : DG
Sample : B2E2402-BK1 Inst : Sally
Misc : DIMOCK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 10:36:51 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) Ethylene glycol	11.296	31	9134 m	1.652	ug/ml	

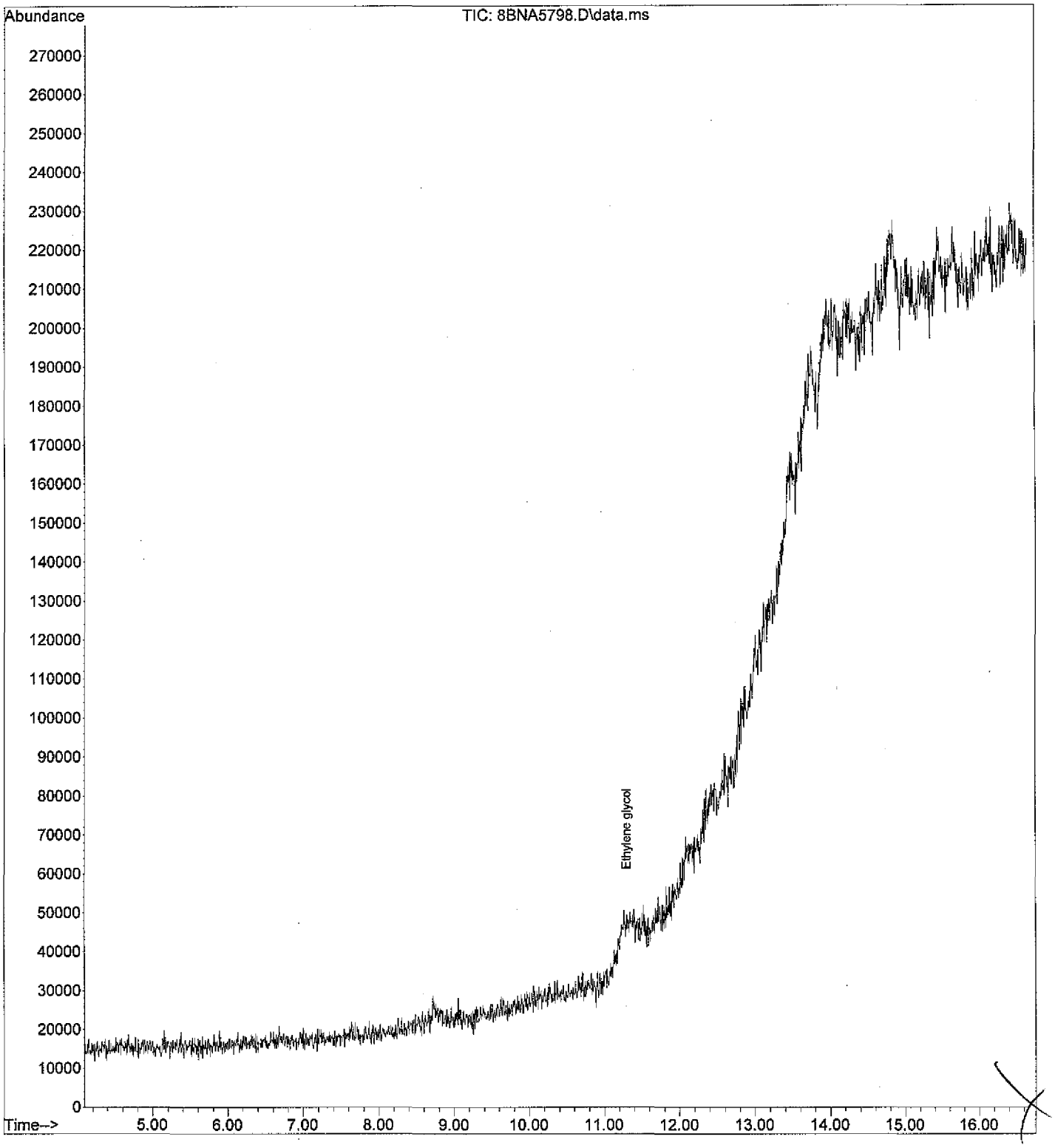
not used

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5798.D
Acq On : 29 May 2012 6:05 pm
Operator : DG
Sample : B2E2402-BK1 Inst : Sally
Misc : DIMOCK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 10:36:51 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5799.D
Acq On : 29 May 2012 6:25 pm
Operator : DG
Sample : 1205010-01 Inst : Sally
Misc : DIMOCK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 10:37:50 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene glycol	10.323	45	1887	0.020 ug/ml#	20

(#) = qualifier out of range (m) = manual integration (+) = signals summed

PG - ND to 25 mg/L
EG - ND to 5 mg/L

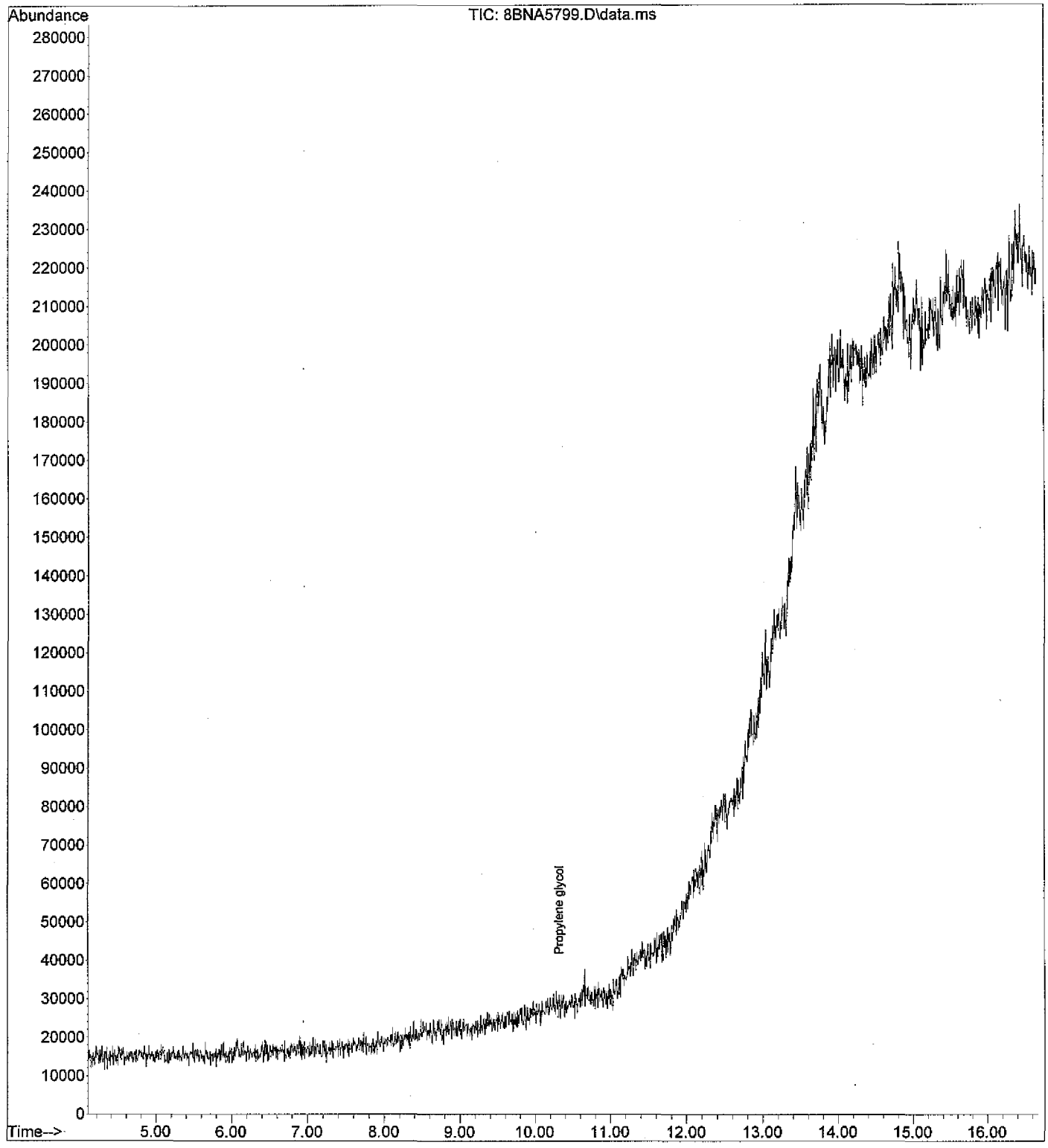
applies to all 5x's

GLYCOLS 052912.M Mon Jun 04 10:38:02 2012 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5799.D
Acq On : 29 May 2012 6:25 pm
Operator : DG
Sample : 1205010-01 Inst : Sally
Misc : DIMOCK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 10:37:50 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5800.D
Acq On : 29 May 2012 6:45 pm
Operator : DG
Sample : 1205010-02 Inst : Sally
Misc : DIMOCK
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 04 10:38:17 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

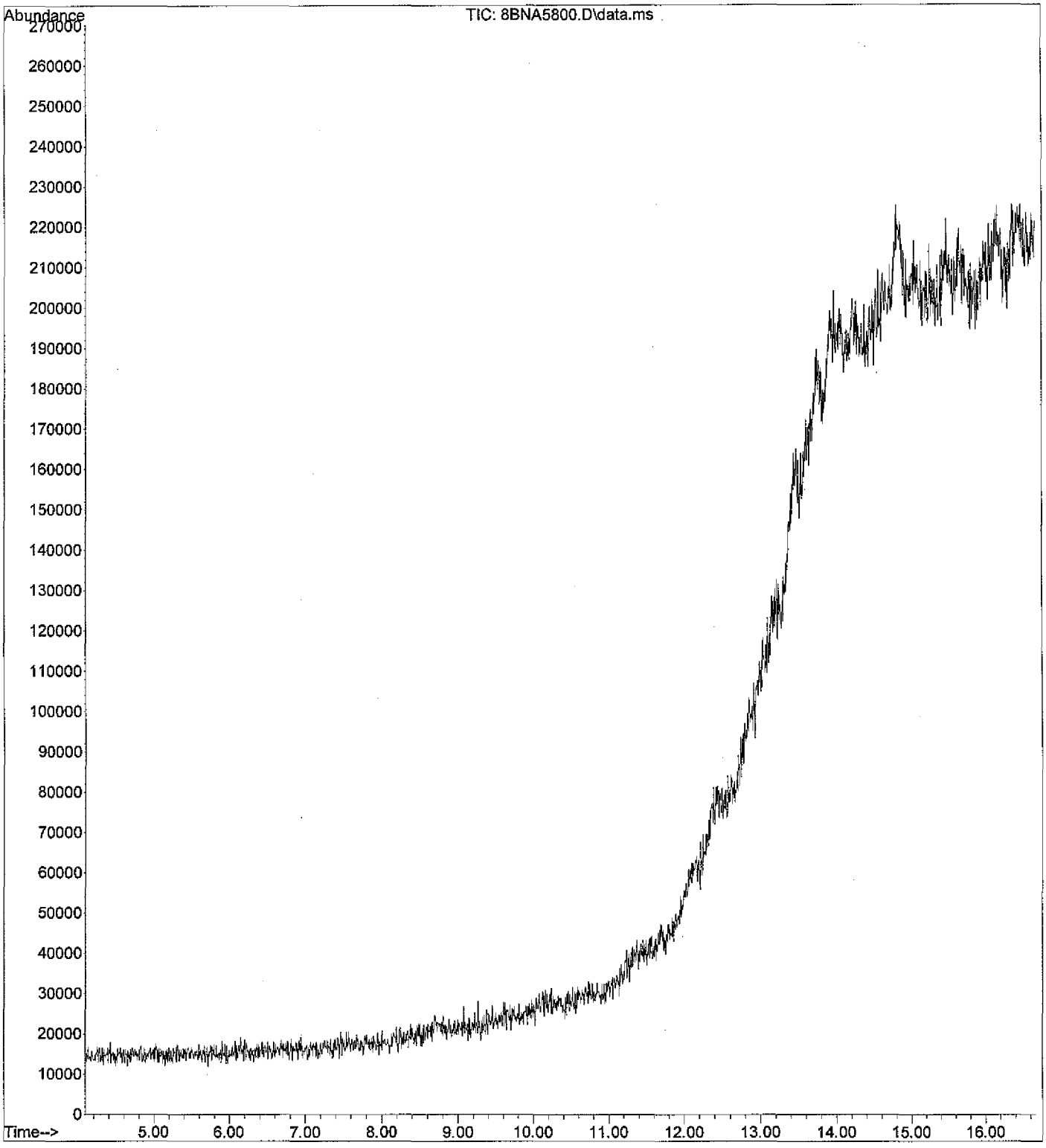
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5800.D
Acq On : 29 May 2012 6:45 pm
Operator : DG
Sample : 1205010-02 Inst : Sally
Misc : DIMOCK
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 04 10:38:17 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5801.D
Acq On : 29 May 2012 7:04 pm
Operator : DG
Sample : 1205010-03 Inst : Sally
Misc : DIMOCK
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 04 10:39:01 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

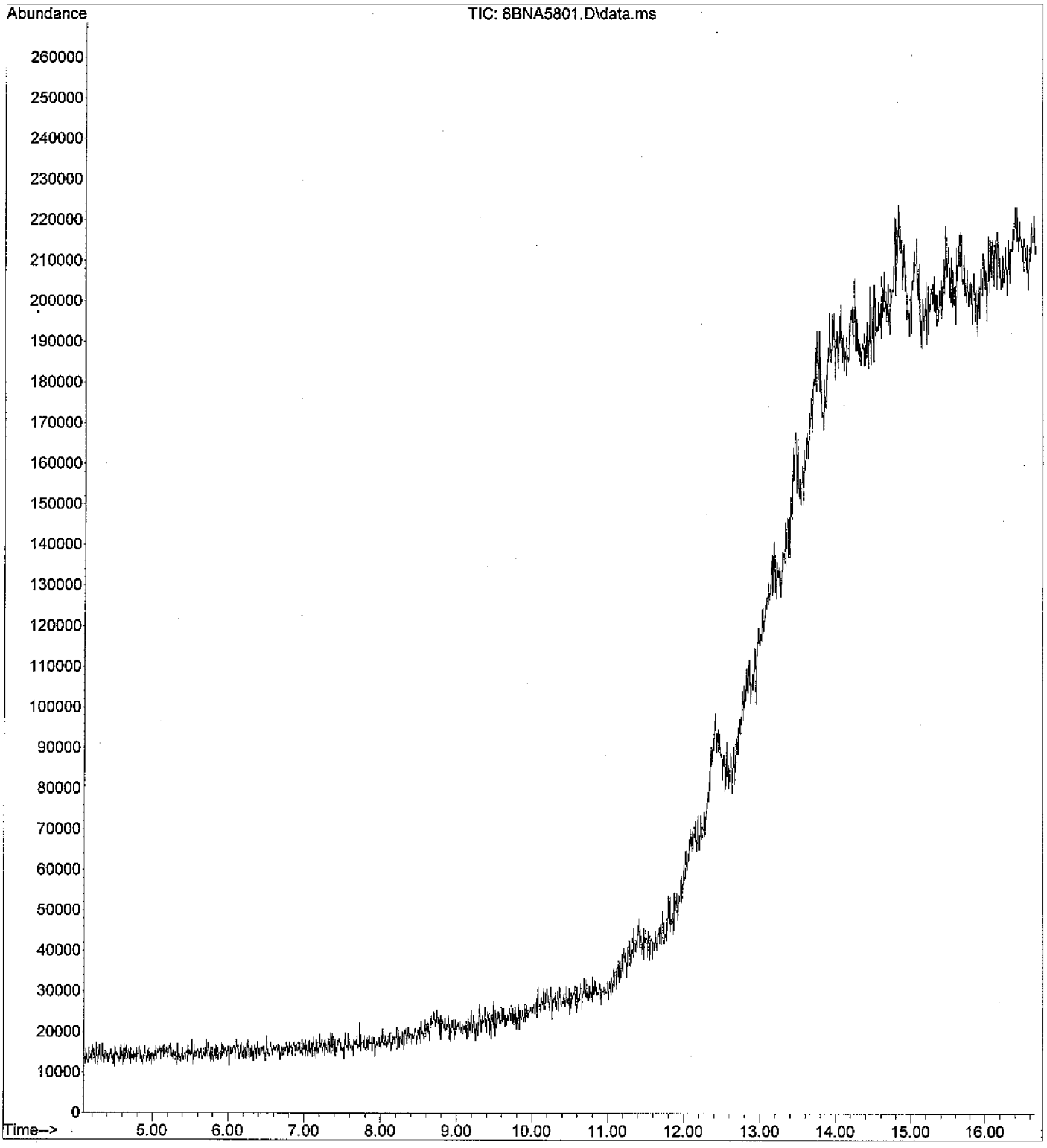
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5801.D
Acq On : 29 May 2012 7:04 pm
Operator : DG
Sample : 1205010-03 Inst : Sally
Misc : DIMOCK
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 04 10:39:01 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5802.D
Acq On : 29 May 2012 7:24 pm
Operator : DG
Sample : 1205010-04 Inst : Sally
Misc : DIMOCK
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 10:39:25 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

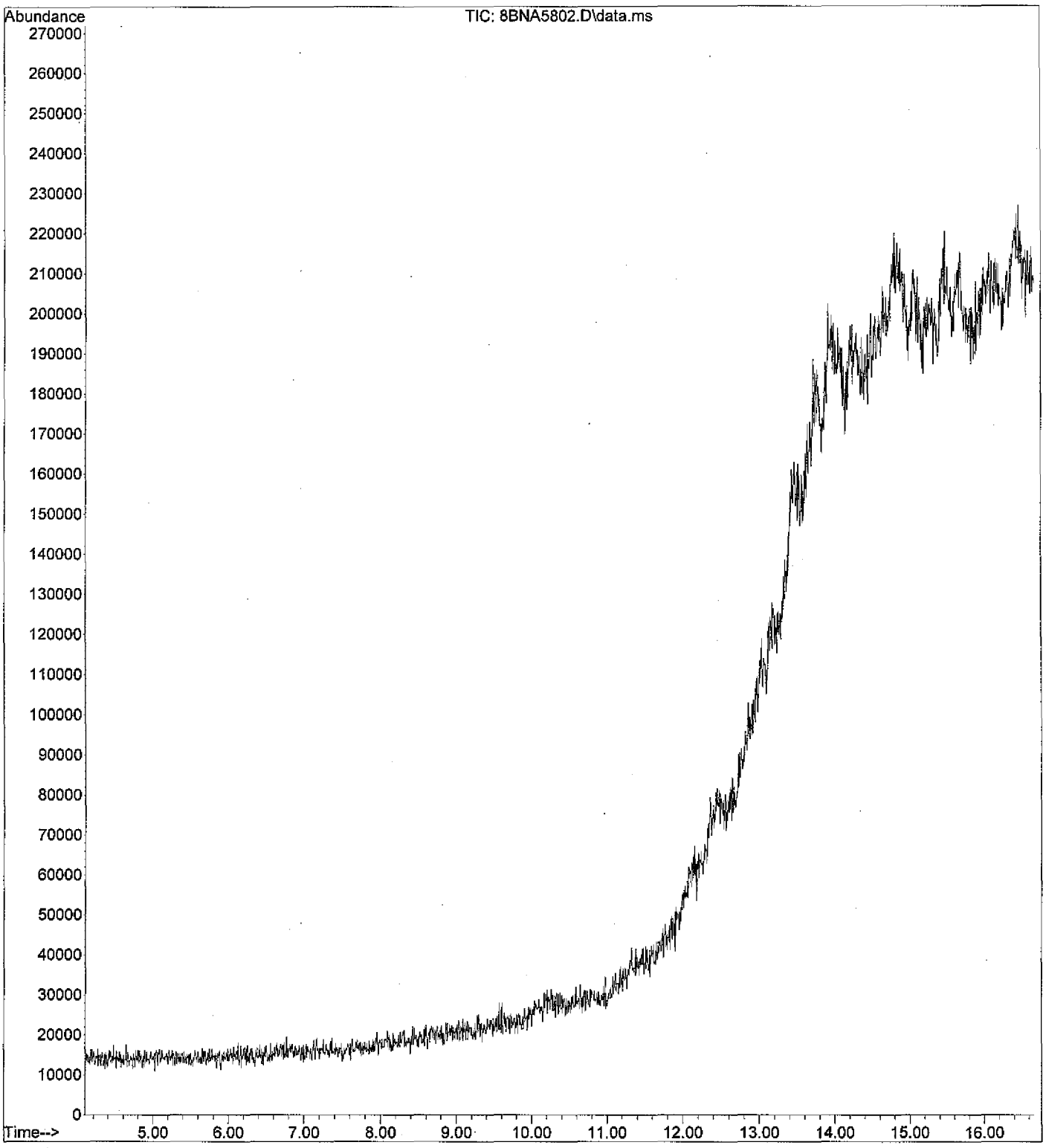
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5802.D
Acq On : 29 May 2012 7:24 pm
Operator : DG
Sample : 1205010-04 Inst : Sally
Misc : DIMOCK
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 10:39:25 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5803.D
Acq On : 29 May 2012 7:44 pm
Operator : DG
Sample : 1205010-05 Inst : Sally
Misc : DIMOCK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 04 10:39:53 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

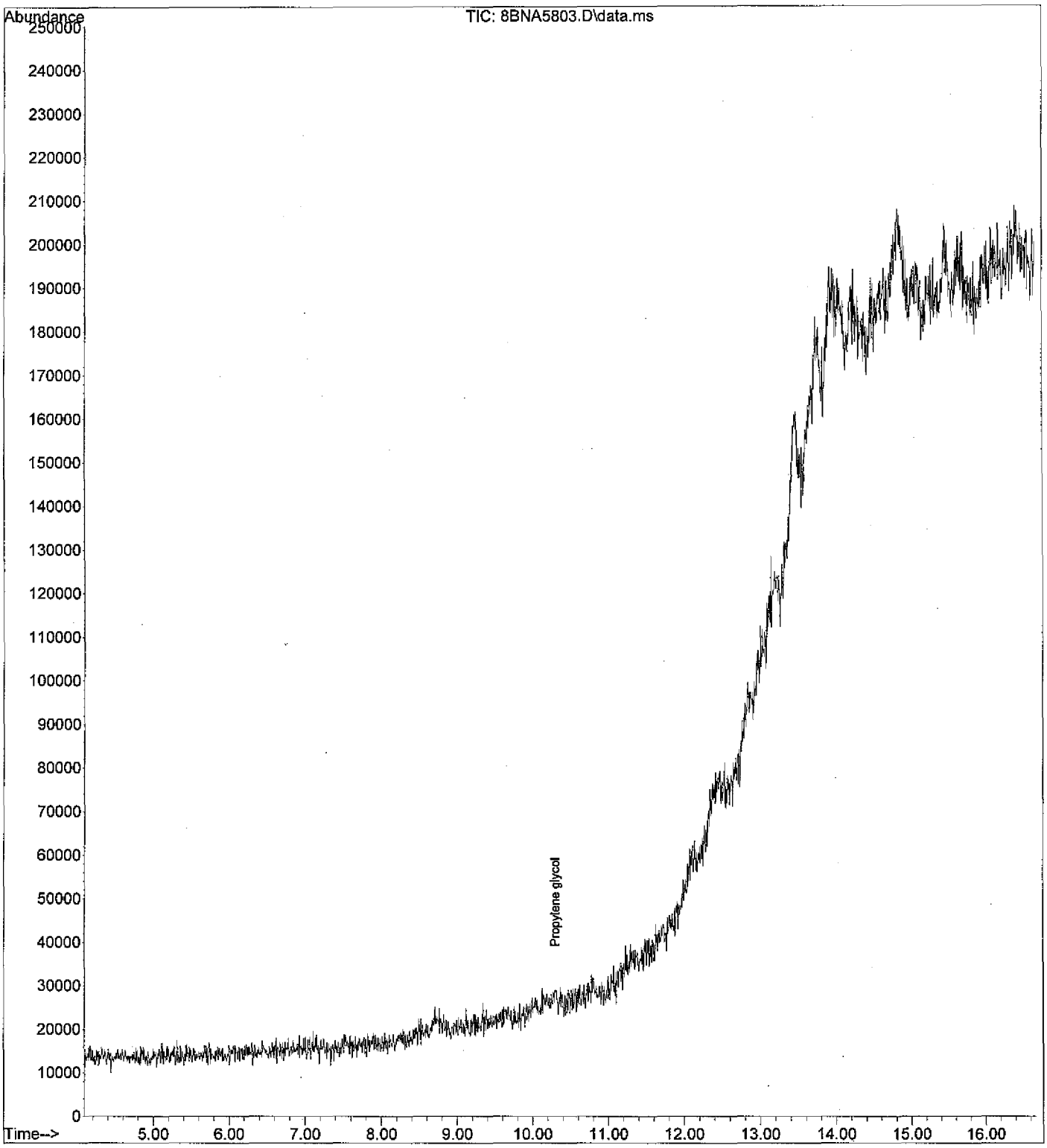
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Propylene glycol	10.297	45	2414	0.026	ug/ml#	51

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5803.D
Acq On : 29 May 2012 7:44 pm
Operator : DG
Sample : 1205010-05 Inst : Sally
Misc : DIMOCK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 04 10:39:53 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5804.D
Acq On : 29 May 2012 8:03 pm
Operator : DG
Sample : 1205010-06 Inst : Sally
Misc : DIMOCK
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 04 10:40:19 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

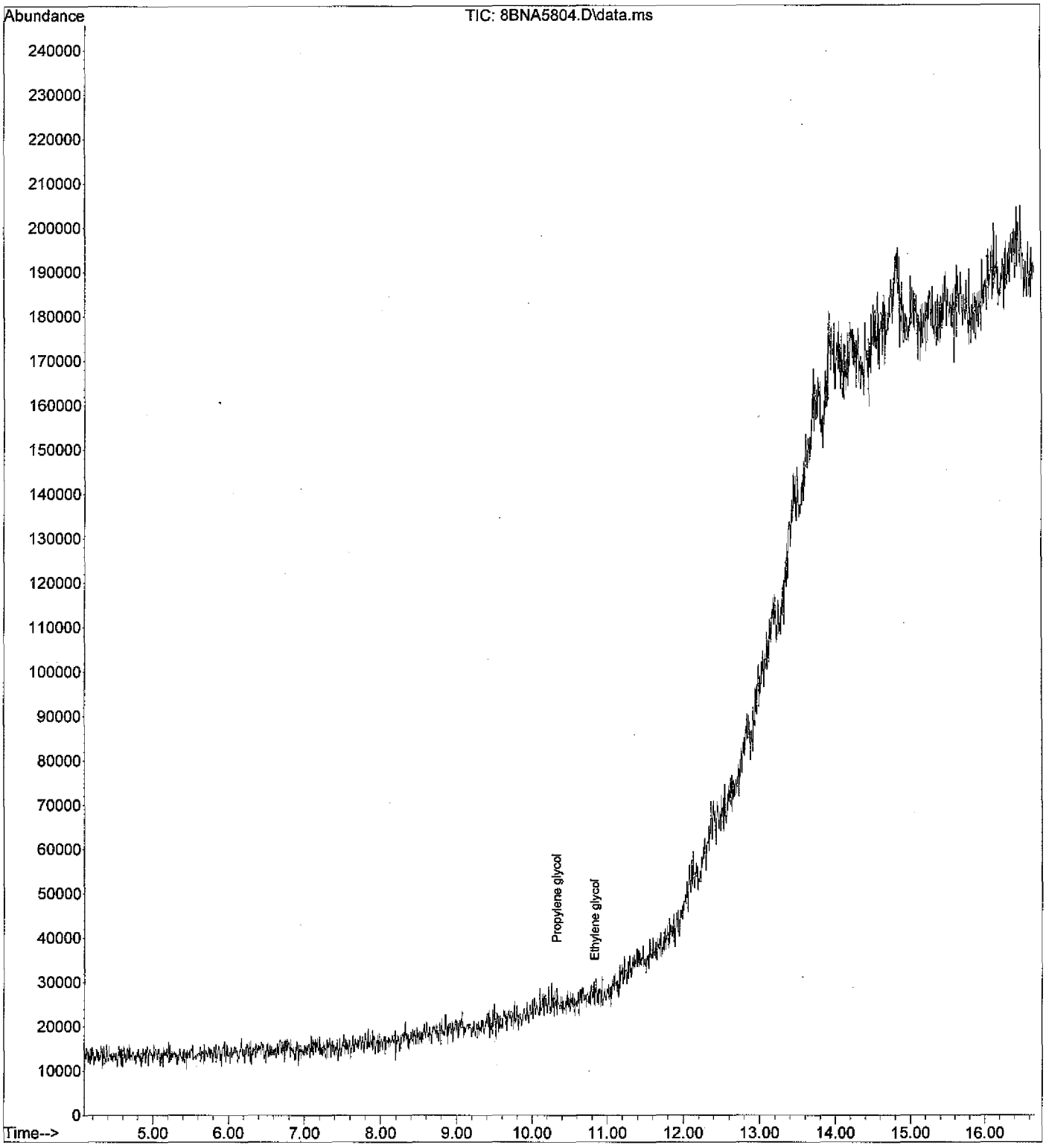
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Propylene glycol	10.323	45	2287	0.024 ug/ml#	79
2) Ethylene glycol	10.830	31	1216	0.022 ug/ml#	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5804.D
Acq On : 29 May 2012 8:03 pm
Operator : DG
Sample : 1205010-06 Inst : Sally
Misc : DIMOCK
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 04 10:40:19 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

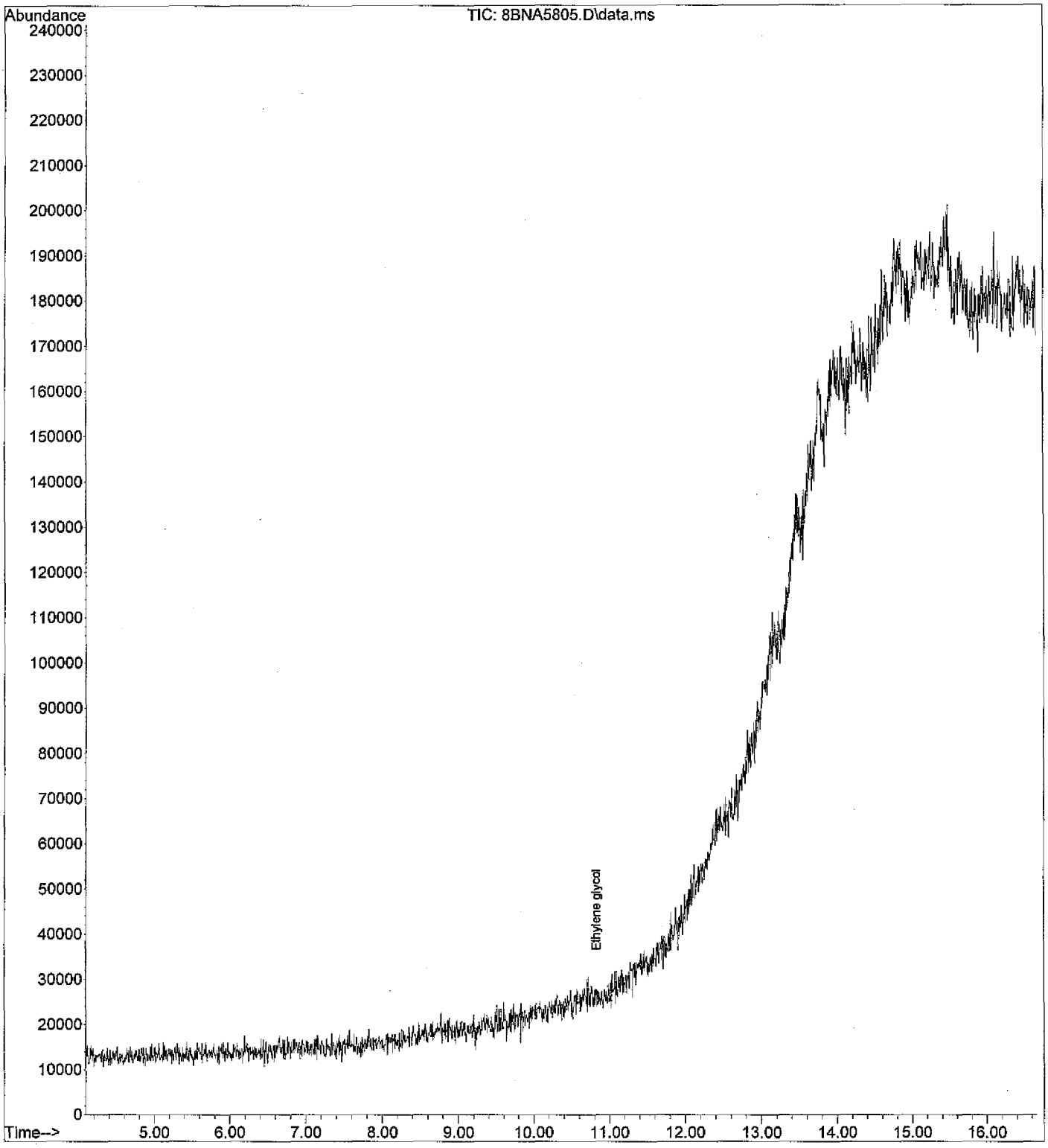
Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5805.D
Acq On : 29 May 2012 8:23 pm
Operator : DG
Sample : 1205010-07 Inst : Sally
Misc : DIMOCK
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 04 10:40:48 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) Ethylene glycol	10.820	31	2046	0.037	ug/ml#	33

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12_0529\
Data File : 8BNA5805.D
Acq On : 29 May 2012 8:23 pm
Operator : DG
Sample : 1205010-07 Inst : Sally
Misc : DIMOCK
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 04 10:40:48 2012
Quant Method : C:\msdchem\1\METHODS\GLYCOLS 052912.M
Quant Title : Glycols by direct injection
QLast Update : Wed May 30 07:26:43 2012
Response via : Initial Calibration