1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

- The instrument runlogs
- Instrument output (SICP chromatograms) indicating the integrations used for quantification including chromatograms indicating both the automated and manual peak integration, where this has been edited
- Autotune instrument outputs including the mass resolution peak profiles
- DFTPP peak ratios, where required

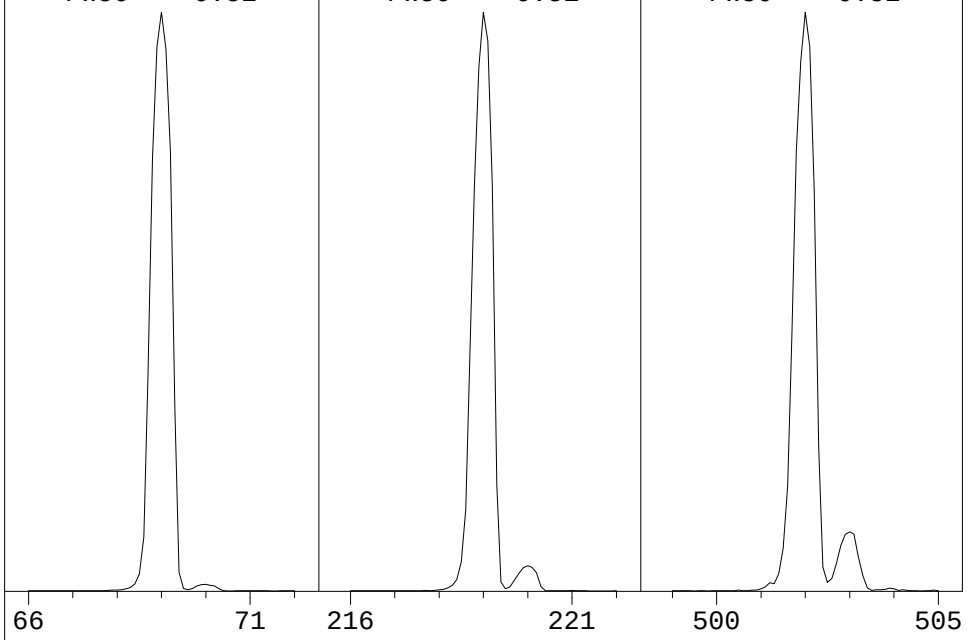
```
   Sequence Name: C:\MSDCHEM\1\SEQUENCE\3-160513-VOST.S
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\2016\1605\160513\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run      Sequence Barcode Options
    (X) Full Method             (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only       ( ) On Mismatch, Don't Inject
                                ( ) Barcode Disabled
   ----------------------------------------------------------------------
   Line                   Sample Name/Misc Info
 1) Sample         1  Blank
     Datafile         16051301
     Method           BFBRX140N
 2) Sample         2  50NGBFB
     Datafile         16051302
     Method           BFBRX140N
 3)  Sample        3  16051303 VOSTRXN  blank
 4)  Sample        2  16051304 VOSTRXN  50NG-VOSTSTD
 5)  Sample        2  16051305 VOSTRXN  blank
 6)  Sample        3  16051306 VOSTRXN  100NG-VOSTSTD
 7)  Sample        4  16051307 VOSTRXN  150NG-VOSTSTD
 8)  Sample        3  16051308 VOSTRXN  250NG-VOSTSTD
 9)  Sample        4  16051309 VOSTRXN  375NG-VOSTSTD
10)  Sample        3  16051310 VOSTRXN  500NG-VOSTSTD
11)  Sample        4  16051311 VOSTRXN  1000NG-VOSTSTD
12)  Sample        3  16051312 VOSTRXN  2000NG-VOSTSTD
```

5975 BFB Dynamic Target Tune

Fri May 13 09:42:49 2016 Instrument: ONLINE

C:\MSDCHEM\1\5975\bfb.u US10272620

Mass	69.00	Mass	219.00	Mass	502.00
Ab	681193	Ab	395032	Ab	19020
Pw50	0.52	Pw50	0.51	Pw50	0.52



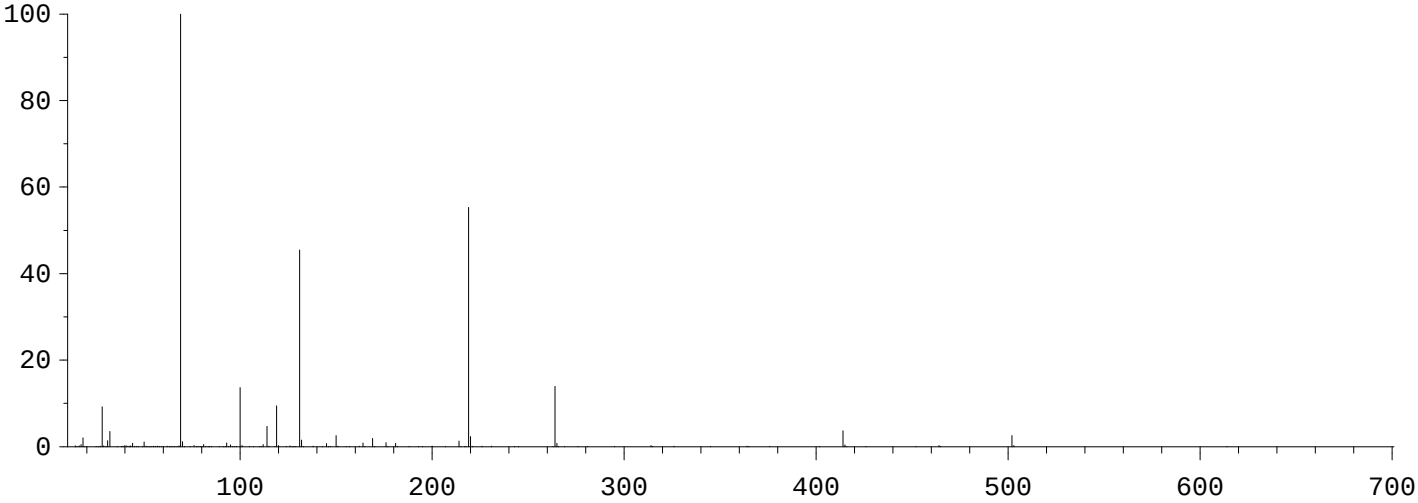
Ion Pol	Pos	MassGain	-472
		MassOffs	-40
Emission	34.6	AmuGain	2309
EIEnrgy	69.9	AmuOffs	125.50
Filament	1	Wid219	-0.030
		DC Pol	Pos
Repeller	19.90		
IonFcus	81.6	HEDEnab	On
EntLens	0.0	EMVolts	1518
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e+00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10

148 peaks Base: 69.00 Abundance: 645632



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	645632	100.00	70.00	7279	1.13
219.00	357056	55.30	220.00	15123	4.24
502.10	16616	2.57	503.10	1611	9.70

Air/Water Check: H20~2.07% N2~9.19% O2~3.55% CO2~0.80% N2/H2O~443.90%

Column(1) Flow: 0 Column(2): -1.79769e+308 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 69; EM Gain 129070

Repeller Maximum 20 volts using ion 219; Gain Factor 1.29

MassGain Values(Samples): -462(3) -459(2) -444(1) -413(0) -369(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	125.5	125.5	125.5	125.5	125.5	125.5	125.5
Entrance Lens Offset:	16.6	13.8	14.8	17.1	22.1	22.3	22.3
Target Abund(%):	1.0	100.0	45.0	55.0	3.5	2.5	
Actual Tune Abund(%):	1.0	100.0	45.5	55.3	3.7	2.6	

BFB

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051302.D
Acq On : 13 May 2016 10:30 am
Operator :
Sample : 50NGBFB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Title : Volatiles VOST
Last Update : Fri Aug 12 15:28:02 2016

AutoFind: Scans 1292, 1293, 1294; Background Corrected with Scan 1277

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	5326	PASS
75	95	30	60	45.5	11450	PASS
95	95	100	100	100.0	25148	PASS
96	95	5	9	6.7	1676	PASS
173	174	0.00	2	0.7	148	PASS
174	95	50	100	82.0	20613	PASS
175	174	5	9	7.1	1467	PASS
176	174	95	101	96.4	19872	PASS
177	176	5	9	6.7	1338	PASS

VOST160513Q7PTrev(RT).M Tue Aug 30 08:52:51 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051304.D
Acq On : 13 May 2016 12:16 pm
Operator : SG Instrument MSD-3
Sample : 50NG-VOSTSTD
Misc : Coder SG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 14:34:14 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:29:30 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.751	130	62989	250.00	ng		0.00
20) 1,4-Difluorobenzene	8.685	114	298878	250.00	ng		0.00
32) d5-Chlorobenzene	12.953	117	229250	250.00	ng		0.00
System Monitoring Compounds							
21) d4-1,2-Dichloroethane(...	7.843	65	95209	235.41	ng		0.00
Spiked Amount 250.000			Recovery = 94.16%				
48) d10-Ethylbenzene(SPK)	13.020	98	328525	207.77	ng		0.00
Spiked Amount 200.000			Recovery = 103.89%				
49) d8-Toluene(SURR)	11.101	98	328778	241.79	ng		0.00
Spiked Amount 250.000			Recovery = 96.72%				
50) 4-Bromofluorobenzene(S...	14.239	95	111869	248.11	ng		0.00
Spiked Amount 250.000			Recovery = 99.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.717	85	23526	56.44	ng		98
3) Chloromethane	1.897	50	29518m	60.07	ng		
4) Vinyl Chloride	2.010	62	22655m	38.20	ng		
5) Bromomethane	2.356	94	11235m	42.57	ng		
6) Chloroethane	2.462	64	10287m	33.22	ng		
7) Trichlorofluoromethane	2.740	101	44665	50.44	ng		99
8) 1,1-Dichloroethene	3.357	61	51026	47.77	ng		98
9) Acetone	3.418	43	22926	58.07	ng		98
10) Iodomethane	3.545	142	6344	14.96	ng		97
11) Carbon disulfide	3.636	76	88941	53.20	ng		99
12) Methylene Chloride	4.057	49	39445	53.50	ng		99
13) trans,1,2-Dichloroethene	4.494	61	31756	44.79	ng		98
14) 1,1-Dichloroethane	5.276	63	40707	46.38	ng		99
15) Vinyl Acetate	5.329	43	23989	53.87	ng		97
16) cis,1,2-Dichloroethene	6.322	61	37107	45.11	ng		97
17) 2-Butanone	6.330	43	15814	55.67	ng		95
18) Chloroform	6.977	83	37813	45.88	ng		99
19) 1,1,1-Trichloroethane	7.218	97	31574	67.20	ng		99
22) Carbon Tetrachloride	7.481	117	27611	48.43	ng		100
23) Benzene	7.850	78	164177	75.93	ng		99
24) 1,2-Dichloroethane	7.978	62	29489	47.71	ng		100
25) Trichloroethene	9.054	95	27153	56.06	ng		99
26) 1,2-Dichloropropane	9.513	63	28263	57.15	ng		99
27) Dibromomethane	9.656	93	12722	45.84	ng		98
28) Bromodichloromethane	10.010	83	28203	52.16	ng		99
29) cis,1,3-Dichloropropene	10.733	75	31409	56.72	ng		100
30) trans,1,3-Dichloropropene	11.568	75	18984	50.51	ng		99
31) 4-Methyl-2-Pentanone	10.981	43	46387	63.62	ng		99
33) Toluene	11.199	91	135218	59.31	ng		100
34) 1,1,2-Trichloroethane	11.816	83	21220	53.98	ng		98
35) Tetrachloroethene	11.884	166	29564	49.45	ng		99
36) 2-Hexanone	12.117	43	35488	61.01	ng		97
37) Chlorodibromomethane	12.275	129	26498	49.53	ng		99
38) Ethylene Dibromide	12.396	107	25805	53.04	ng		98
39) Chlorobenzene	12.983	112	72230	51.75	ng	#	82
40) 1,1,1,2-Tetrachloroethane	13.096	131	24056	48.49	ng		98
41) Ethylbenzene	13.103	91	138082	53.44	ng		100
42) M&P-Xylene	13.254	91	224893	102.49	ng		100
43) O-Xylene	13.668	91	114995	50.58	ng		99
44) Styrene	13.690	104	122543	63.05	ng		96
45) Bromoform	13.878	173	18193	43.31	ng		99
46) 1,1,2,2-Tetrachloroethane	14.390	83	35935m	52.84	ng		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051304.D
Acq On : 13 May 2016 12:16 pm
Operator : SG
Sample : 50NG-VOSTSTD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 14:34:14 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:29:30 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,2,3-Trichloropropane	14.435	75	29943m	52.66 ng	
51) Isopropylbenzene	14.059	105	133145	50.31 ng	99
52) 1,3,5-Trimethylbenzene	14.668	105	136200	52.80 ng	99
53) 1,2,4-Trimethylbenzene	15.030	105	134558	52.83 ng	100
54) 1,3-Dichlorobenzene	15.301	146	65711	49.44 ng	100
55) 1,4-Dichlorobenzene	15.398	146	70391	50.28 ng	99
56) 1,2-Dichlorobenzene	15.730	146	62886	50.01 ng	96
57) 1,2,4-Trichlorobenzene	17.205	180	50753	47.63 ng	98
58) Hexachlorobutadiene	17.317	225	26787	47.82 ng	99
59) Naphthalene	17.445	128	121808	46.06 ng	99
60) 1,1-Dichloropropene	7.511	75	36245	49.74 ng	98
61) 1,3-Dichloropropane	12.012	76	43419	53.43 ng	98
62) Bromobenzene	14.367	77	48139	51.14 ng	97
63) n-Propylbenzene	14.480	91	168616	50.34 ng	100
64) tert-Butylbenzene	14.969	119	101196	50.47 ng	99
65) sec-Butylbenzene	15.188	105	156093	50.45 ng	99
66) p-Isopropyltoluene	15.338	119	141427	51.86 ng	99
67) n-Butylbenzene	15.715	91	143069	54.33 ng	100
68) 1,2-Dibromo-3-chloropr...	16.460	157	8973m	54.30 ng	

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

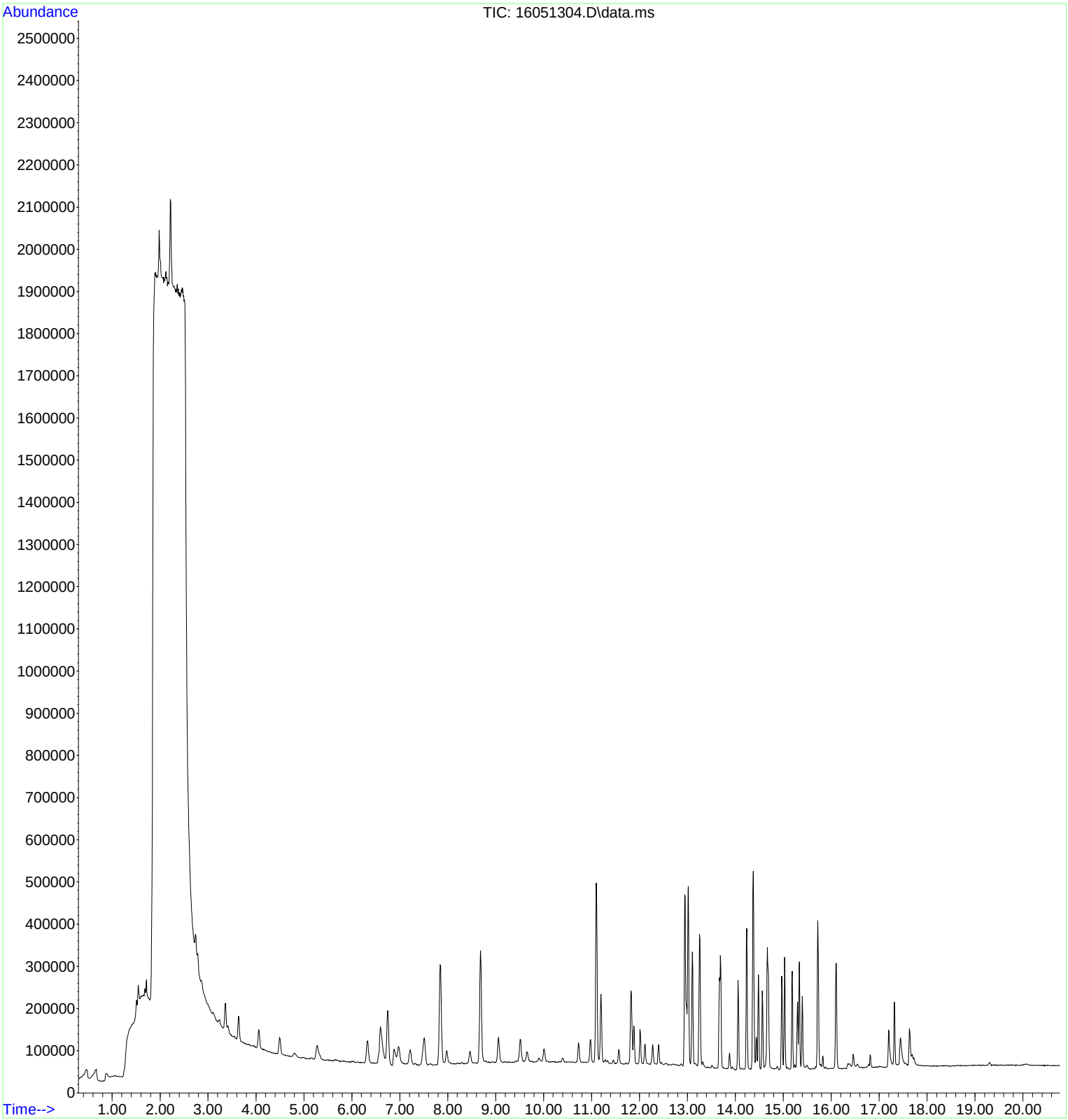
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

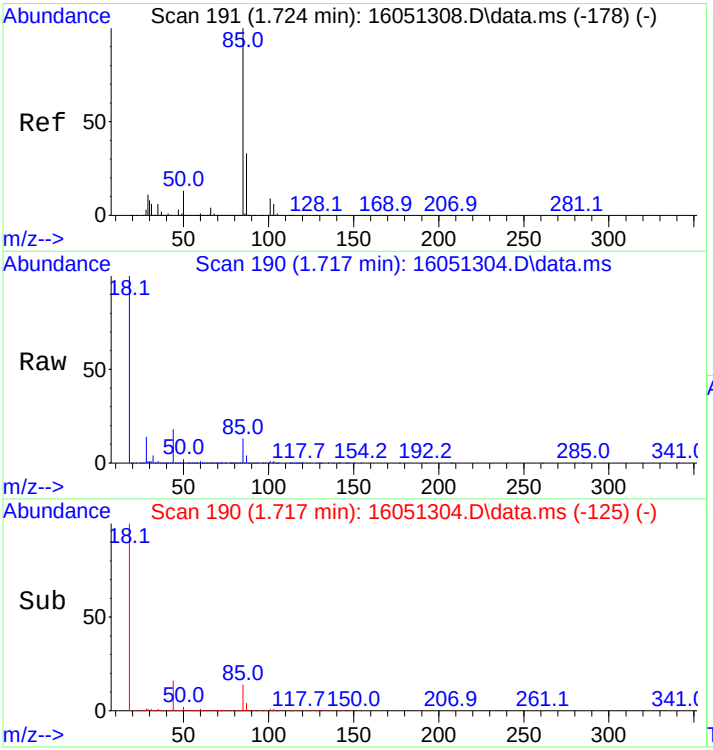
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051304.D
Acq On : 13 May 2016 12:16 pm
Operator : SG Instrument MSD-3
Sample : 50NG-VOSTSTD
Misc : Coder SG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 13:04:41 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

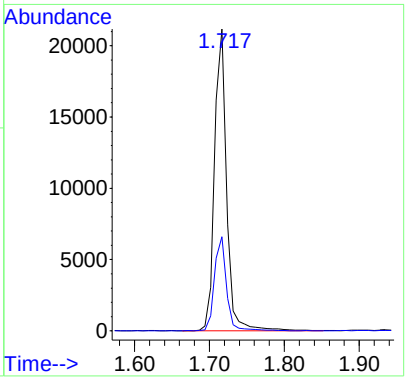


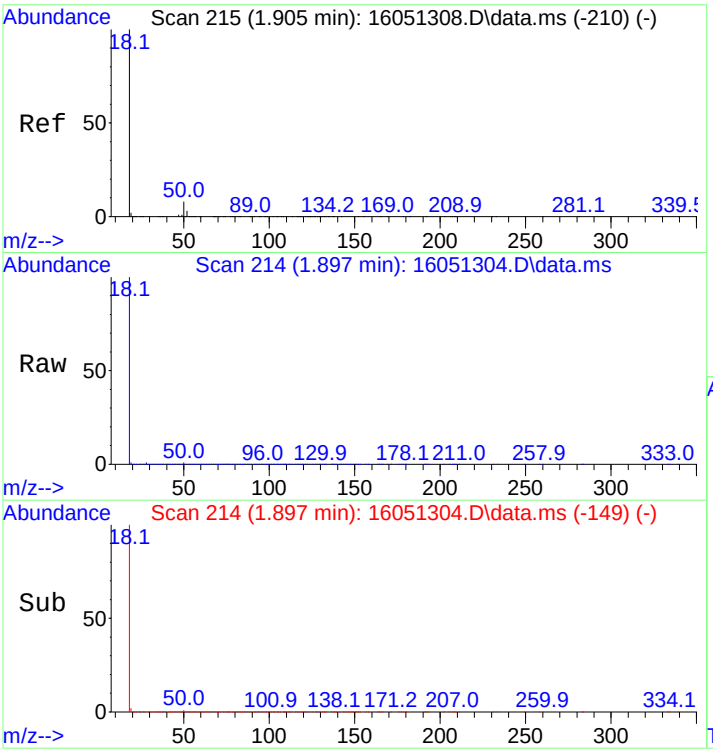


#2
Dichlorodifluoromethane
Concen: 56.30 ng
RT: 1.717 min Scan# 190
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 85 Resp: 23526

Ion	Ratio	Lower	Upper
85	100		
87	31.4	26.0	39.0

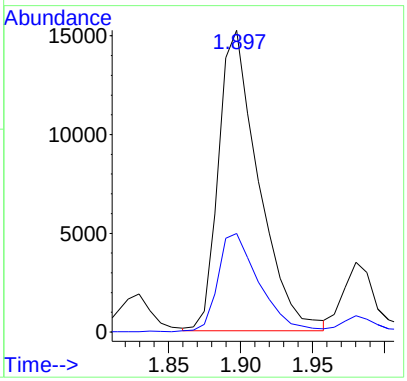


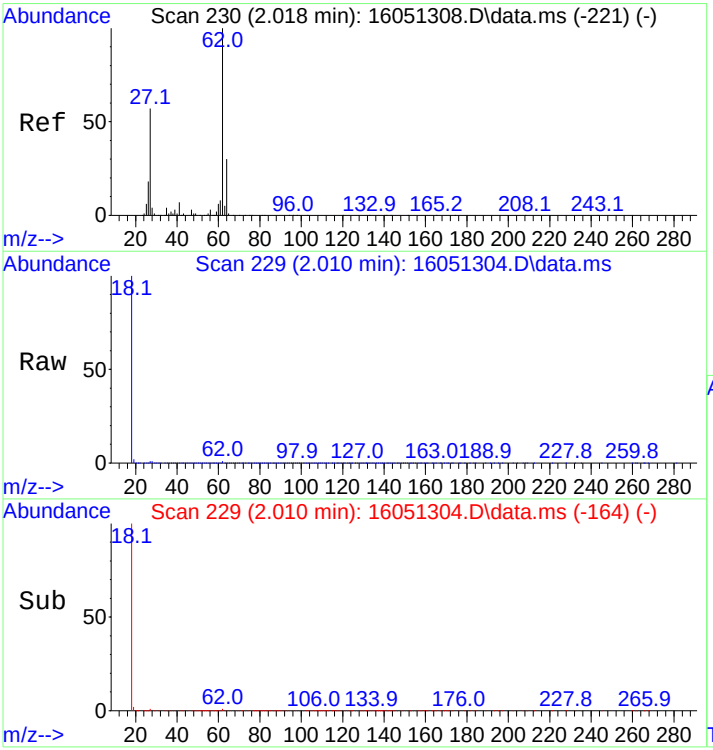


#3
Chloromethane
Concen: 59.56 ng
RT: 1.897 min Scan# 214
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 50 Resp: 29518

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.0	39.0

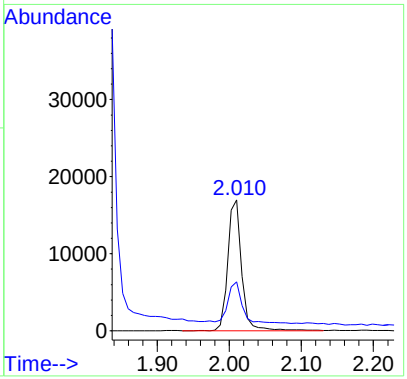


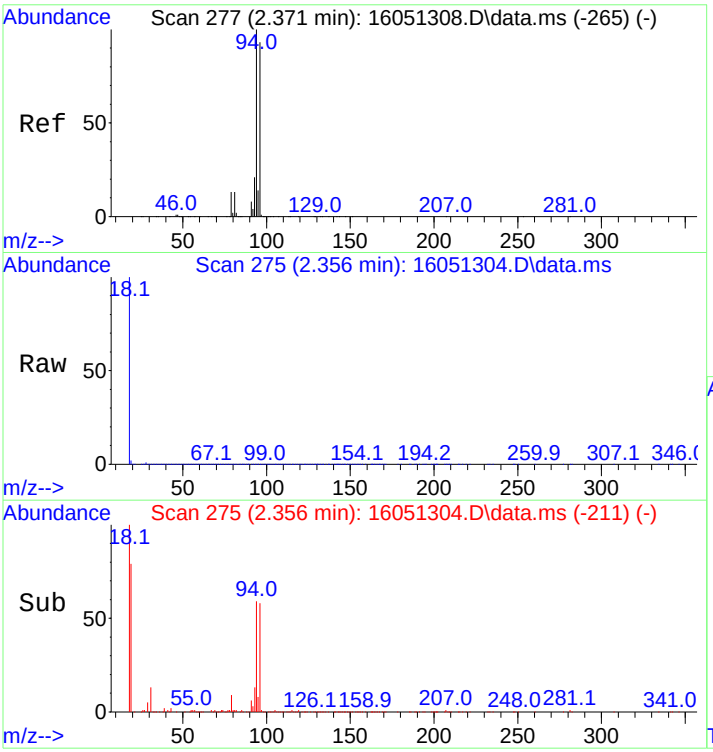


#4
Vinyl Chloride
Concen: 38.04 ng
RT: 2.010 min Scan# 229
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 62 Resp: 22655

Ion	Ratio	Lower	Upper
62	100		
64	49.3	25.7	38.5#

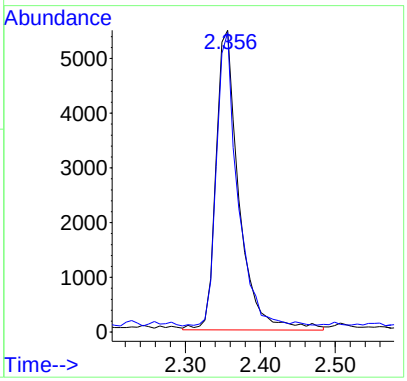


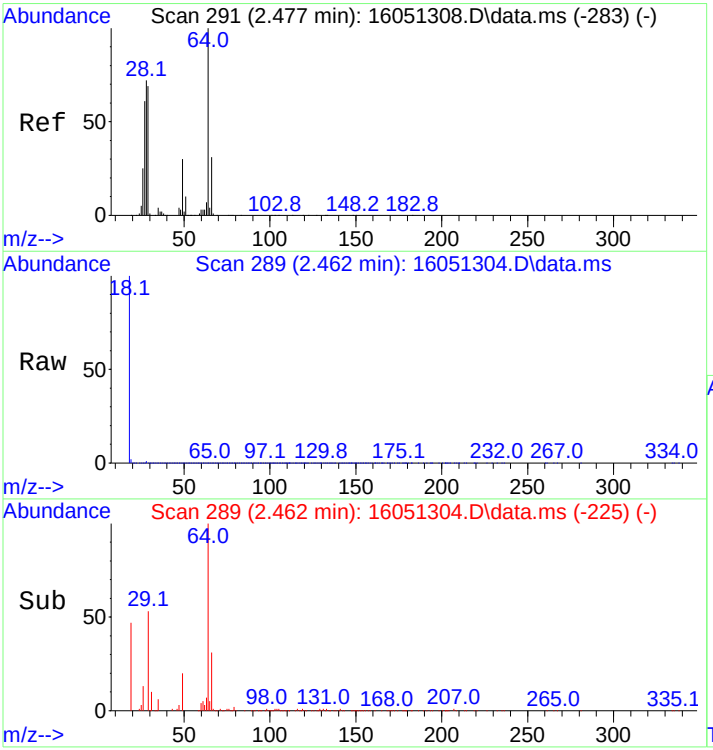


#5
Bromomethane
Concen: 44.07 ng
RT: 2.356 min Scan# 275
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 94 Resp: 11667

Ion	Ratio	Lower	Upper
94	100		
96	89.5	74.5	111.7

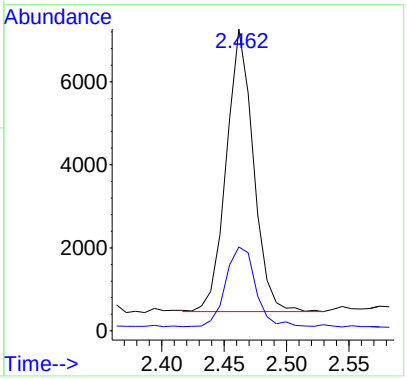


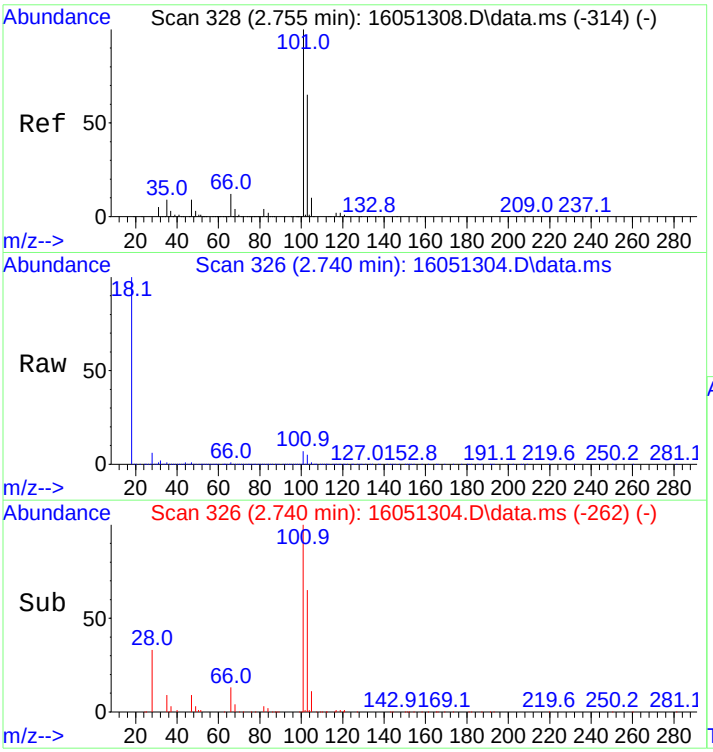


#6
Chloroethane
Concen: 33.09 ng
RT: 2.462 min Scan# 289
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 64 Resp: 10261

Ion	Ratio	Lower	Upper
64	100		
66	32.9	25.0	37.4

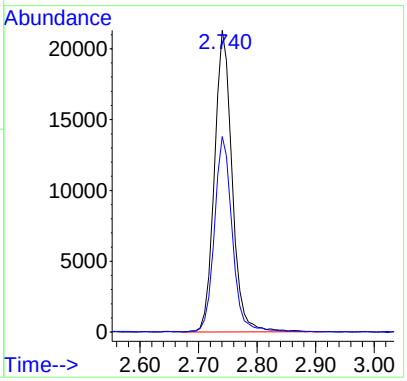


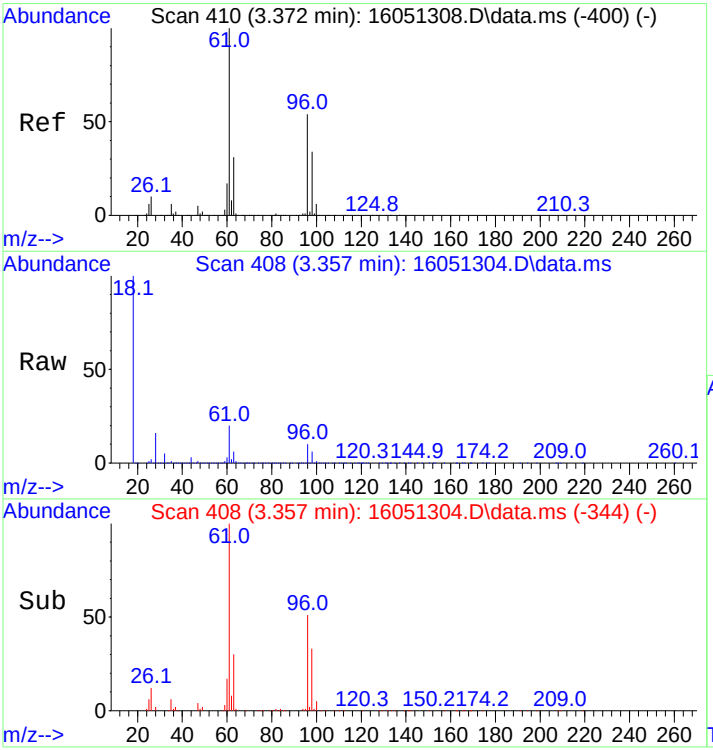


#7
Trichlorofluoromethane
Concen: 50.27 ng
RT: 2.740 min Scan# 326
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:101 Resp: 44665

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.6

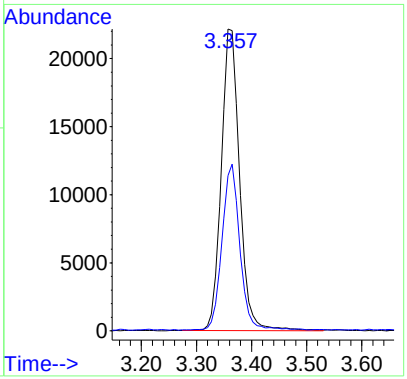


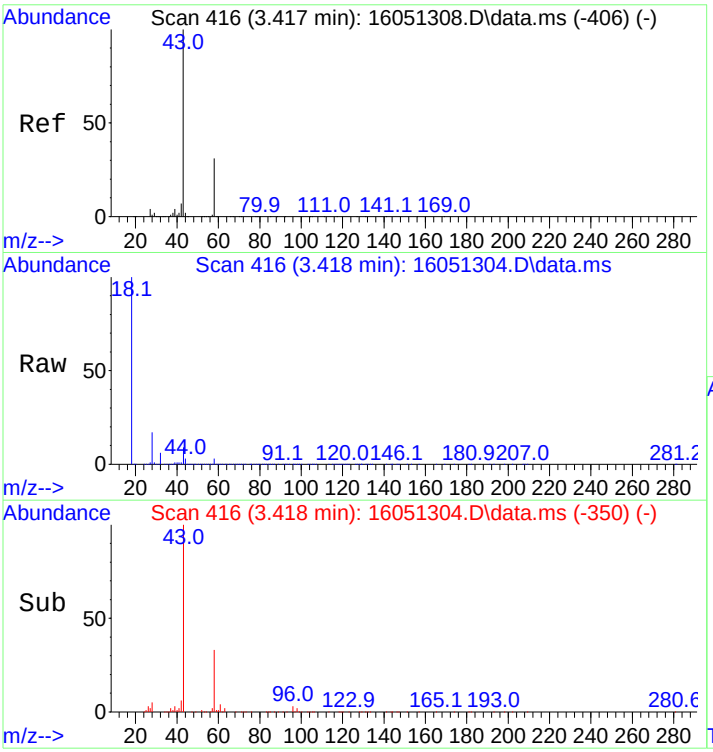


#8
1,1-Dichloroethene
Concen: 47.65 ng
RT: 3.357 min Scan# 408
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 61 Resp: 51026

Ion	Ratio	Lower	Upper
61	100		
96	53.3	44.1	66.1

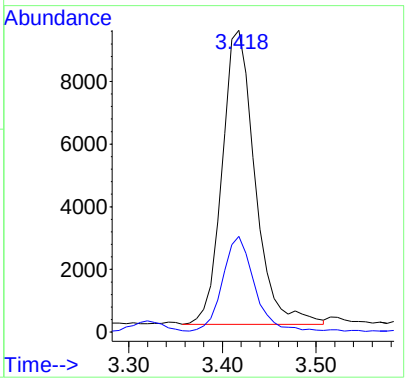


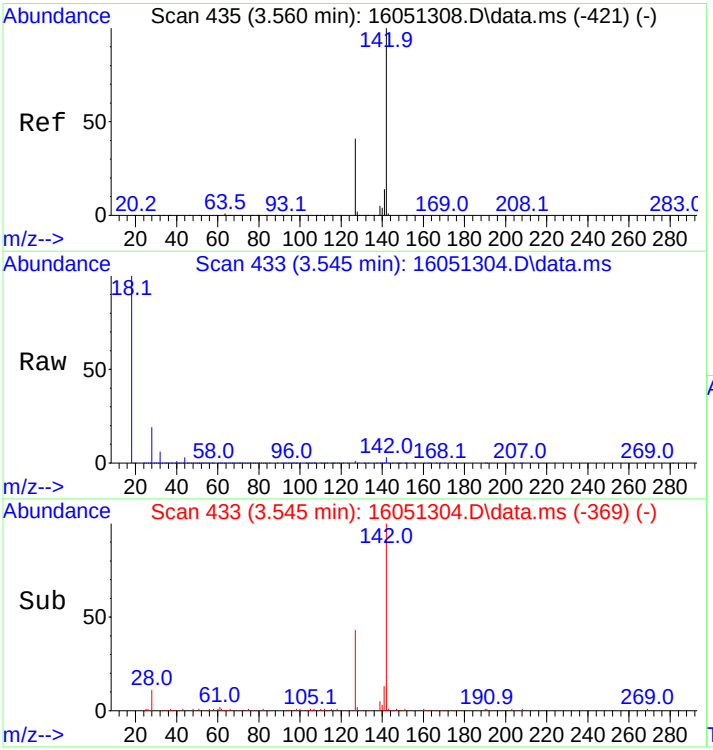


#9
Acetone
Concen: 57.53 ng
RT: 3.418 min Scan# 416
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 22926

Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.7	37.1

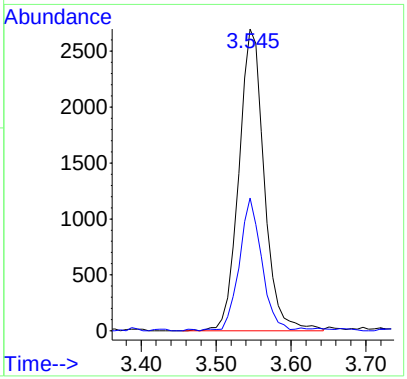


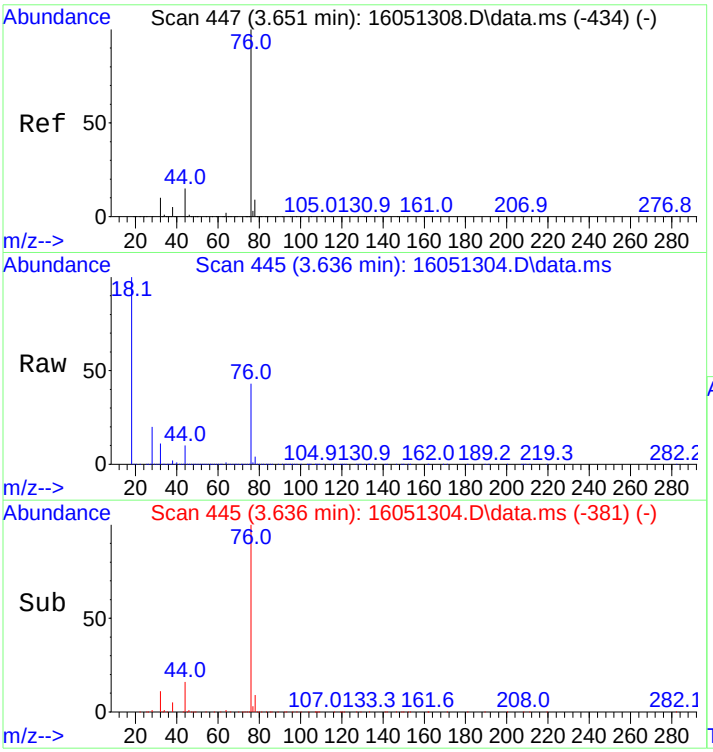


#10
Iodomethane
Concen: 14.94 ng
RT: 3.545 min Scan# 433
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:142 Resp: 6344

Ion	Ratio	Lower	Upper
142	100		
127	39.0	32.8	49.2

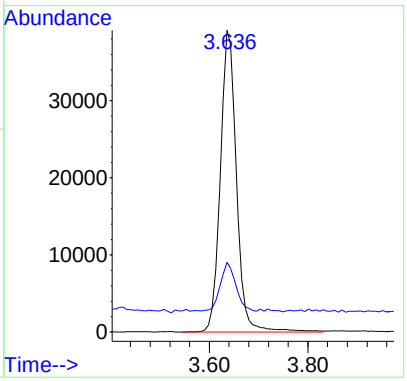


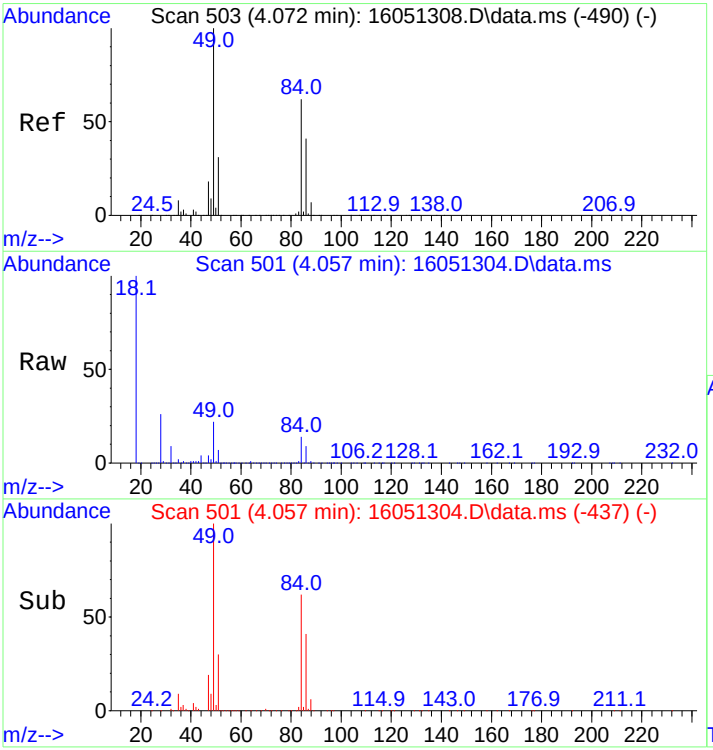


#11
Carbon disulfide
Concen: 53.06 ng
RT: 3.636 min Scan# 445
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 76 Resp: 88941

Ion	Ratio	Lower	Upper
76	100		
44	15.7	12.2	18.4

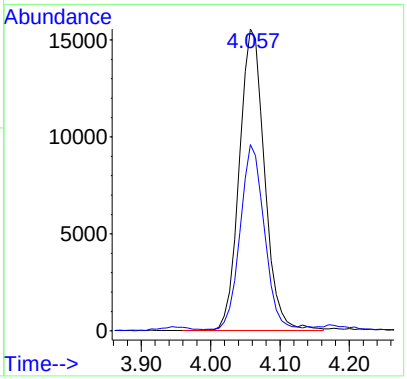


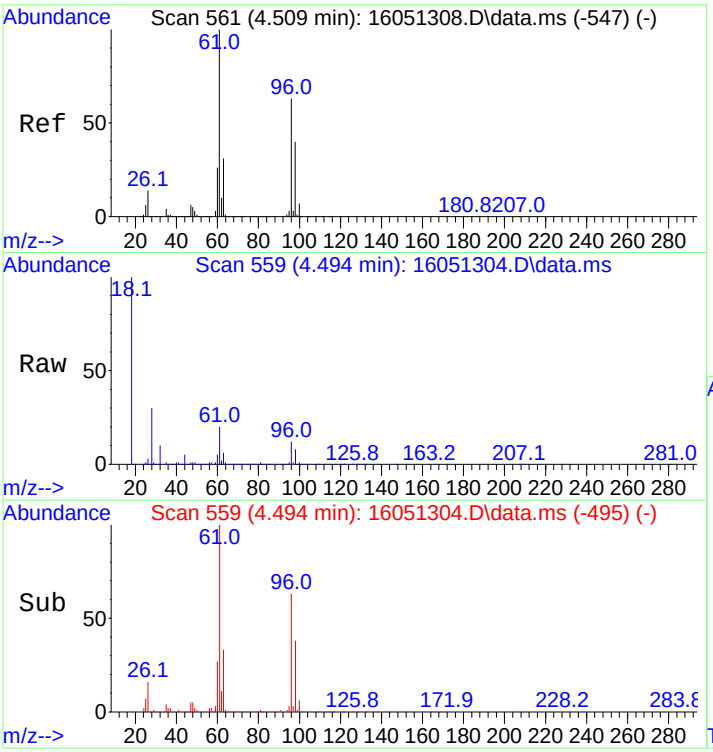


#12
Methylene Chloride
Concen: 53.23 ng
RT: 4.057 min Scan# 501
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 49 Resp: 39445

Ion	Ratio	Lower	Upper
49	100		
84	59.5	48.4	72.6

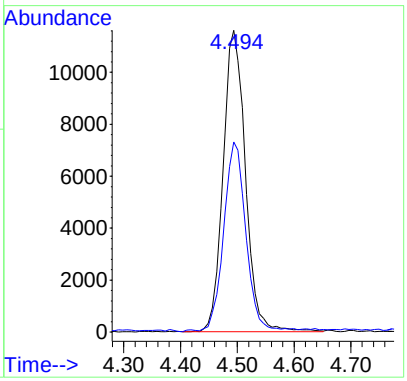


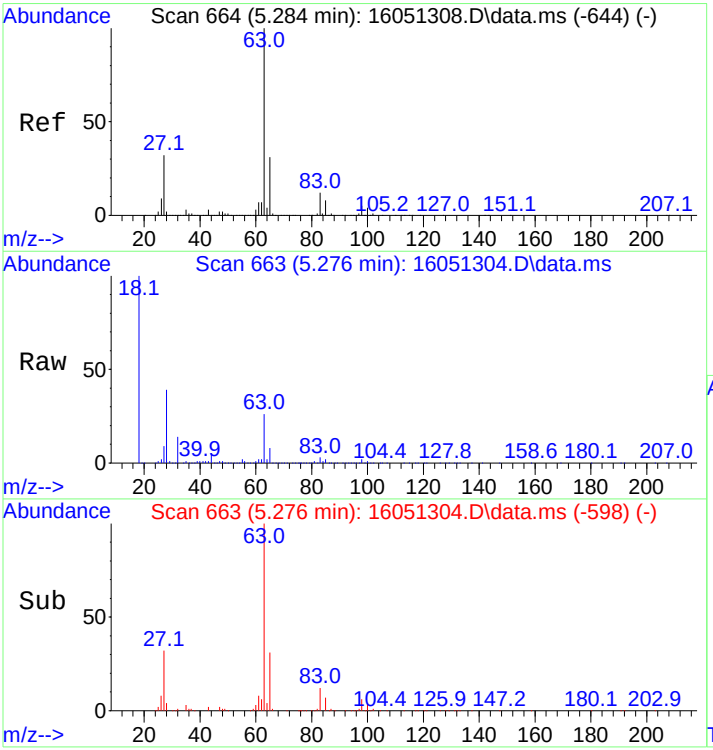


#13
trans,1,2-Dichloroethene
Concen: 44.68 ng
RT: 4.494 min Scan# 559
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 61 Resp: 31756

Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.2	75.4

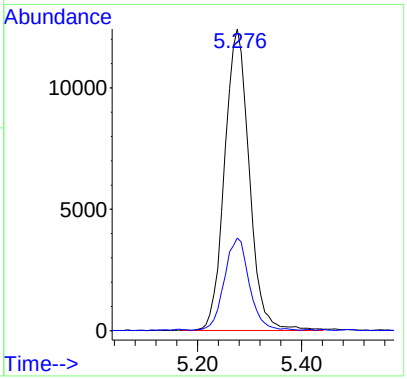


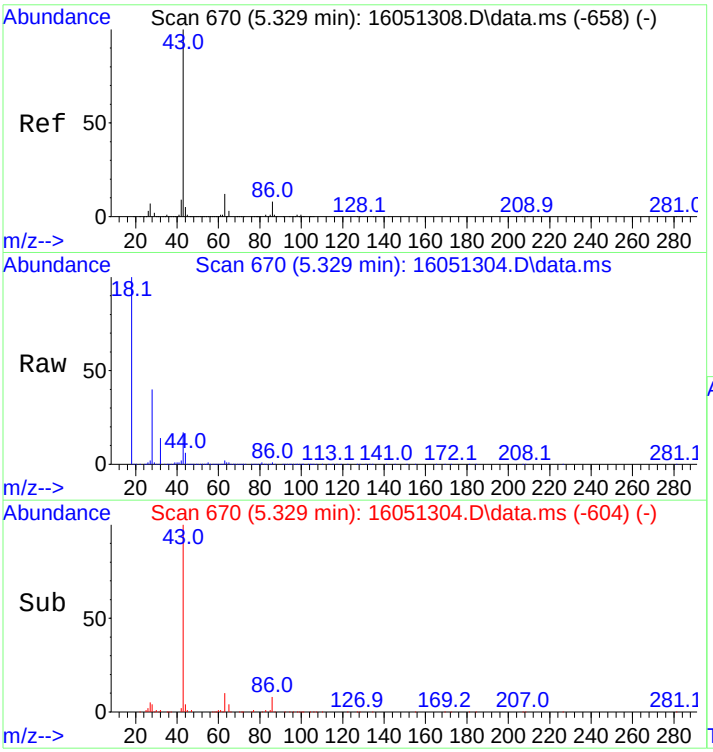


#14
1,1-Dichloroethane
Concen: 46.17 ng
RT: 5.276 min Scan# 663
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 63 Resp: 40707

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.6	37.0

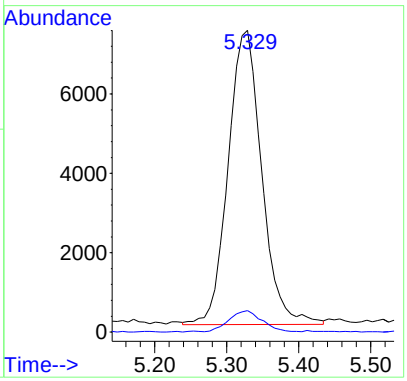


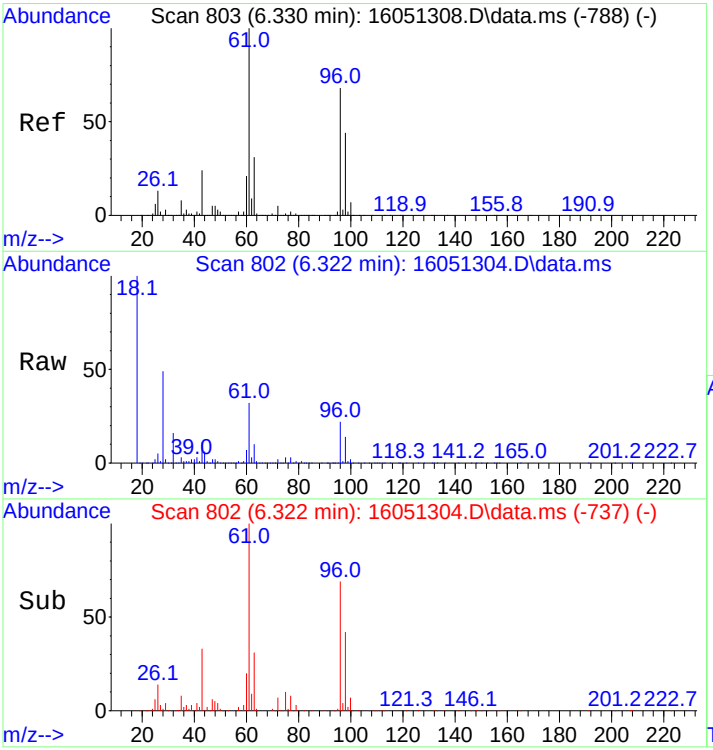


#15
Vinyl Acetate
Concen: 53.41 ng
RT: 5.329 min Scan# 670
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 23989

Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.6	9.8

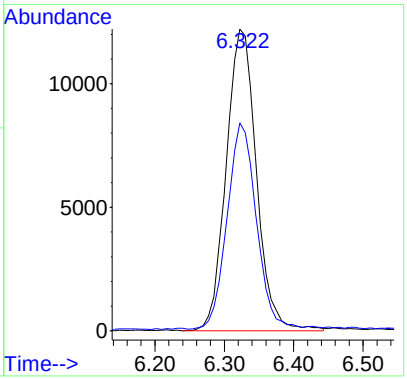


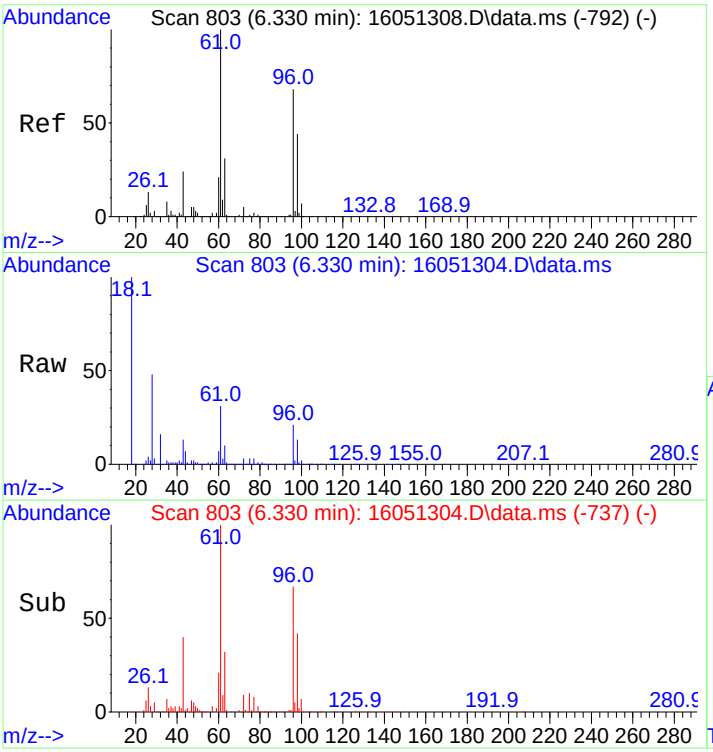


#16
cis,1,2-Dichloroethene
Concen: 45.04 ng
RT: 6.322 min Scan# 802
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 61 Resp: 37107

Ion	Ratio	Lower	Upper
61	100		
96	65.8	54.6	81.8

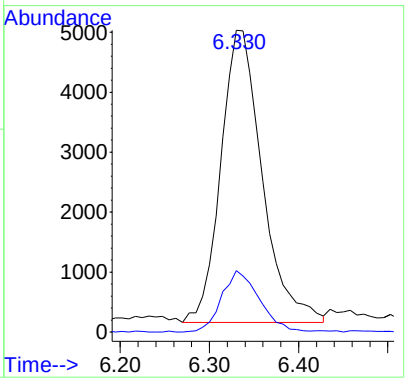


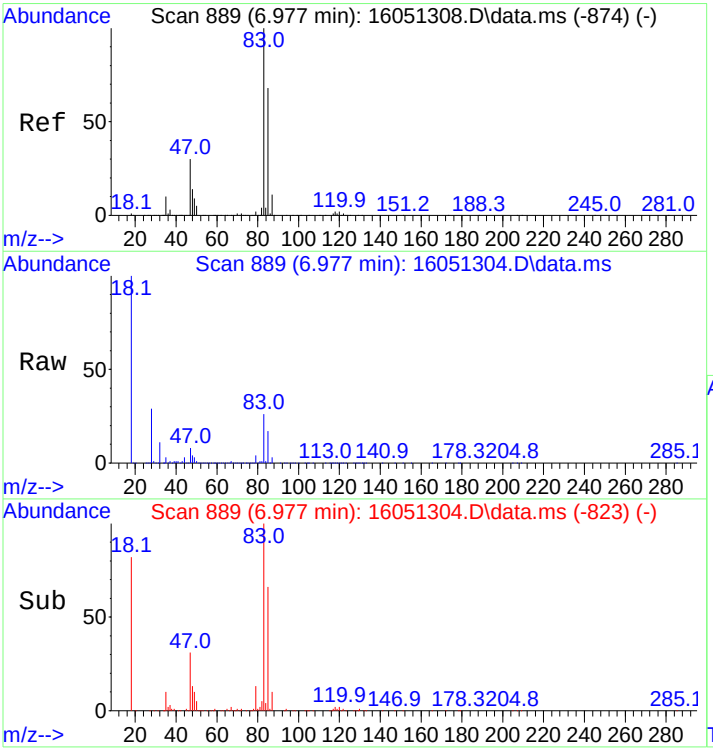


#17
2-Butanone
Concen: 55.50 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 15814

Ion	Ratio	Lower	Upper
43	100		
72	19.4	17.4	26.2

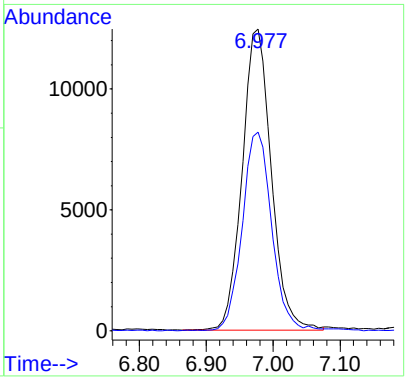


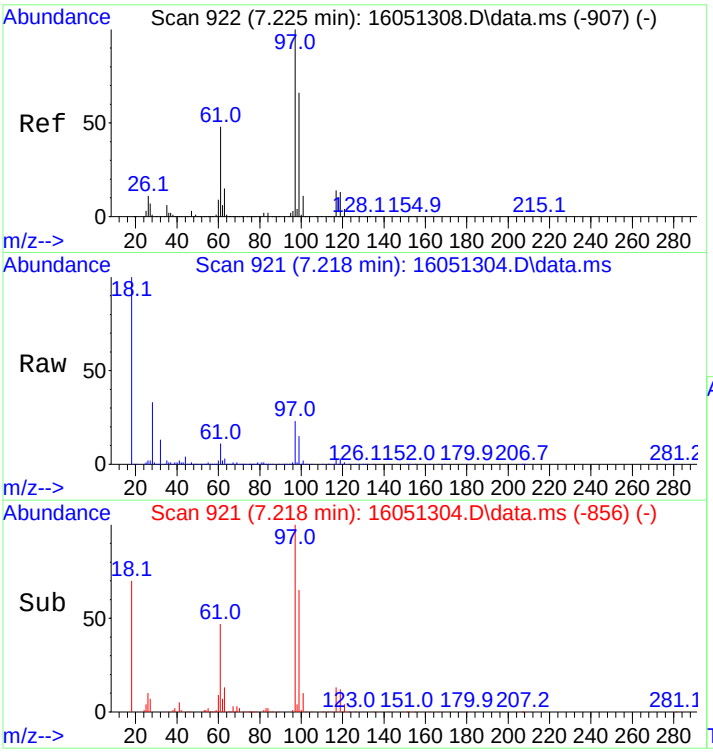


#18
Chloroform
Concen: 45.72 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 37813

Ion	Ratio	Lower	Upper
83	100		
85	66.8	53.9	80.9

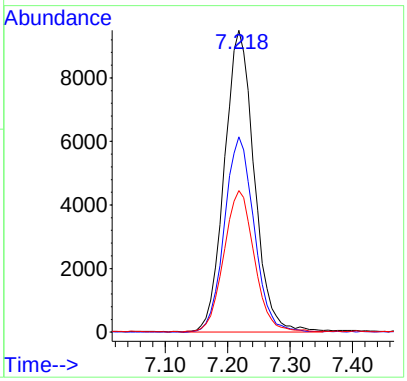


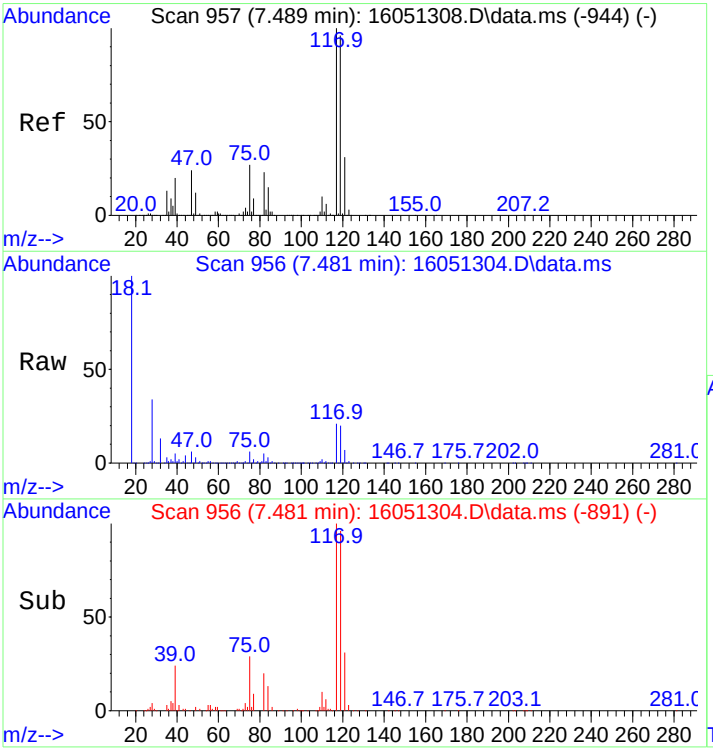


#19
1,1,1-Trichloroethane
Concen: 66.77 ng
RT: 7.218 min Scan# 921
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 97 Resp: 31574

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.3	76.9
61	48.1	37.6	56.4

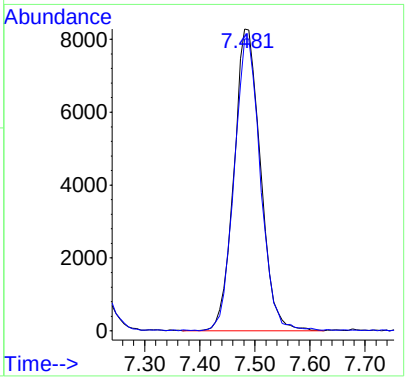


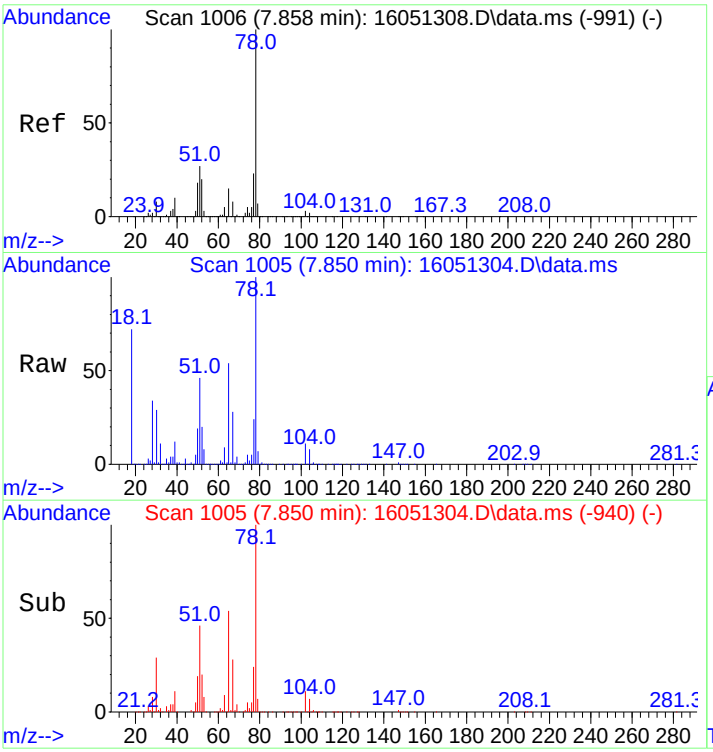


#22
Carbon Tetrachloride
Concen: 48.36 ng
RT: 7.481 min Scan# 956
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:117 Resp: 27611

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.0	115.4

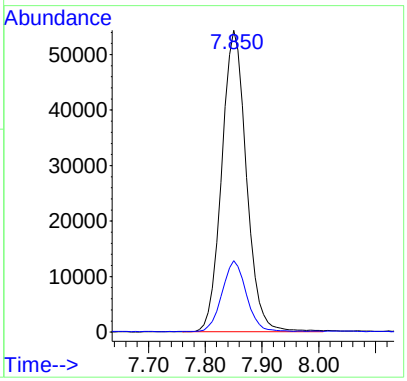


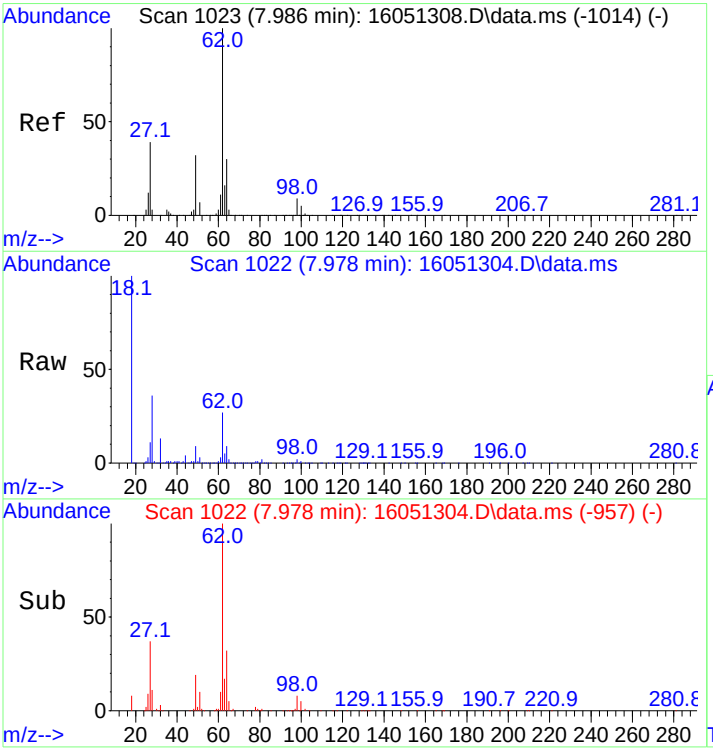


#23
Benzene
Concen: 75.88 ng
RT: 7.850 min Scan# 1005
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 78 Resp: 164177

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.3	27.5

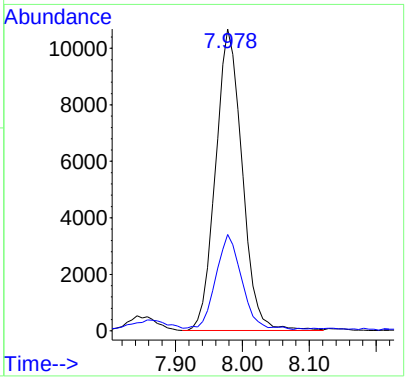


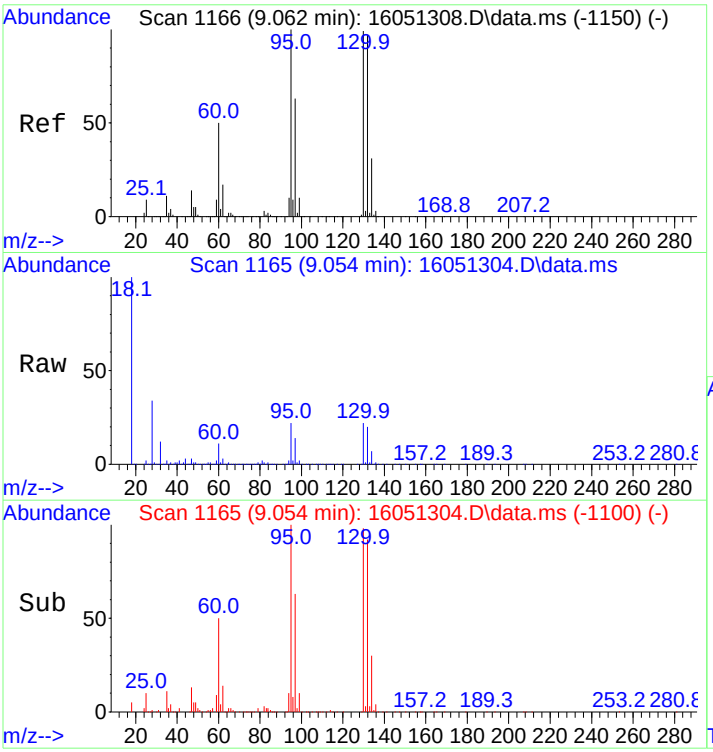


#24
1,2-Dichloroethane
Concen: 47.61 ng
RT: 7.978 min Scan# 1022
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 62 Resp: 29489

Ion	Ratio	Lower	Upper
62	100		
64	30.9	24.8	37.2

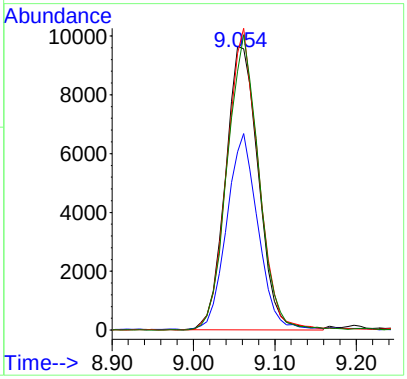


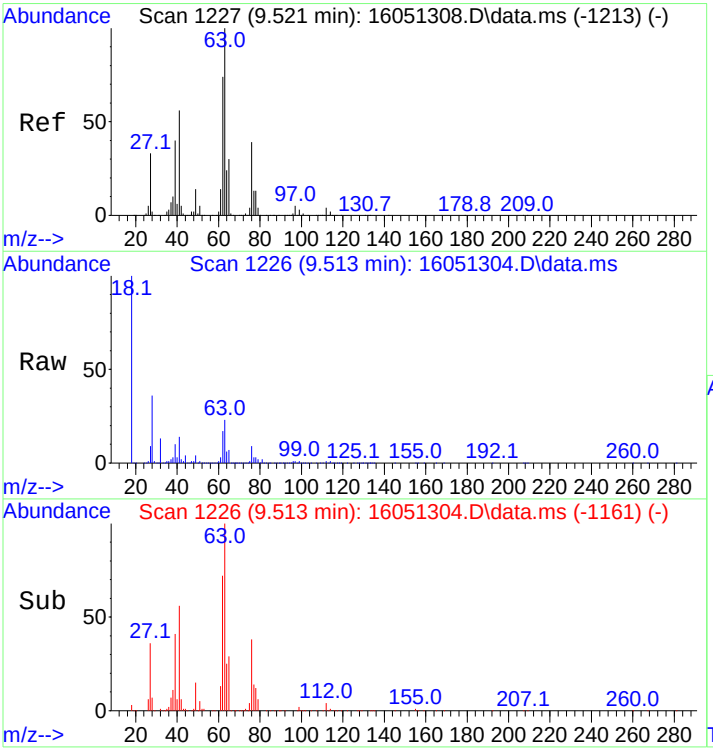


#25
Trichloroethene
Concen: 55.98 ng
RT: 9.054 min Scan# 1165
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 95 Resp: 27153

Ion	Ratio	Lower	Upper
95	100		
97	65.2	51.8	77.8
130	102.3	81.9	122.9
132	100.1	81.2	121.8

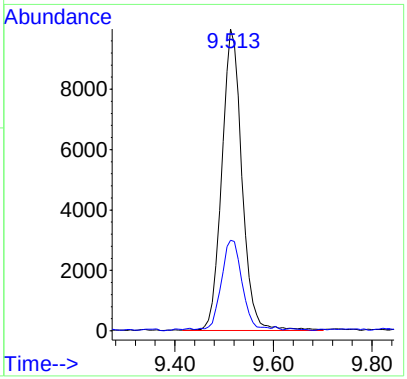


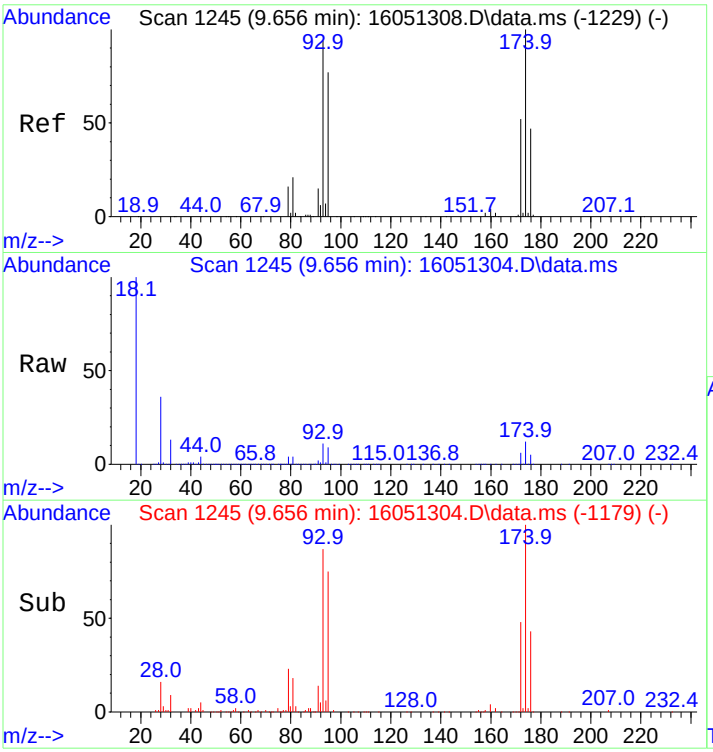


#26
1,2-Dichloropropane
Concen: 56.99 ng
RT: 9.513 min Scan# 1226
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 63 Resp: 28263

Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.2	36.2

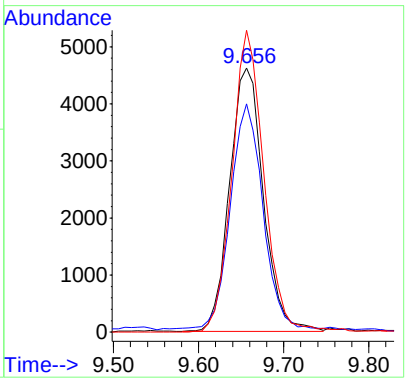


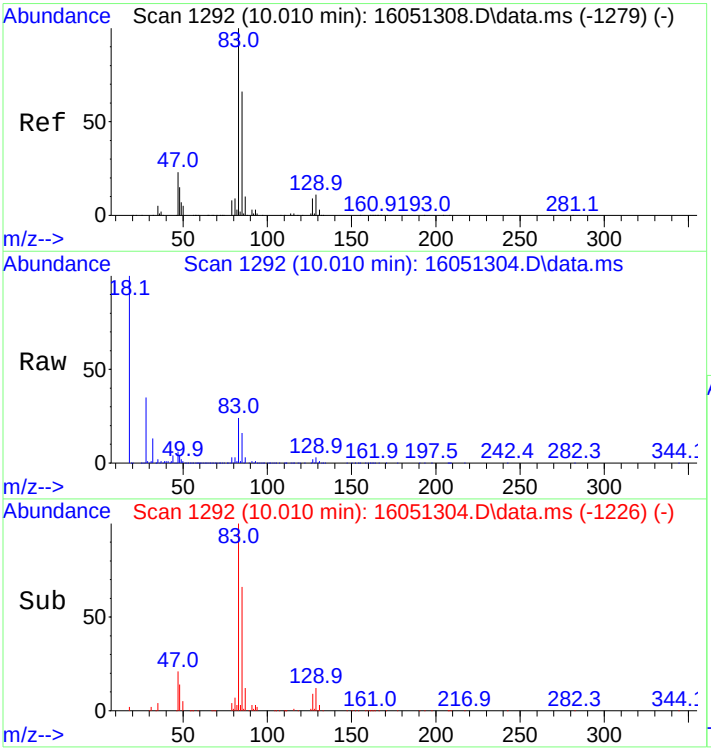


#27
Dibromomethane
Concen: 45.80 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 93 Resp: 12722

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.5	98.3
174	108.6	85.5	128.3

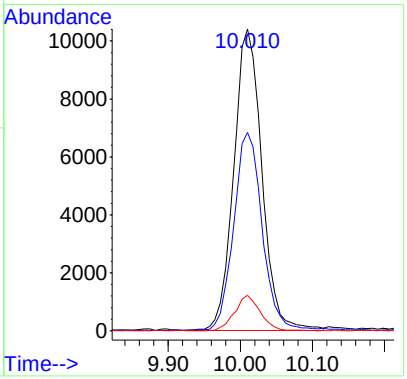


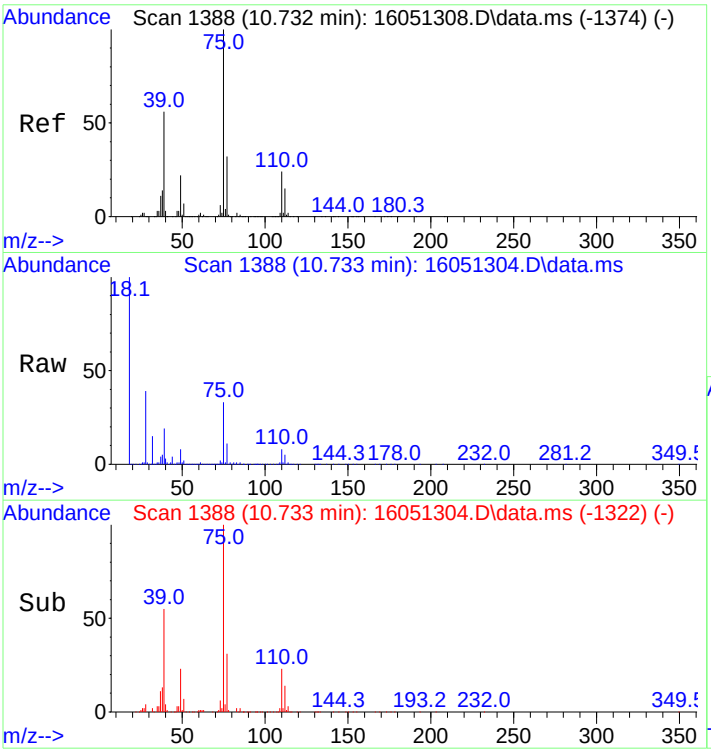


#28
Bromodichloromethane
Concen: 52.22 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 28203

Ion	Ratio	Lower	Upper
83	100		
85	66.5	52.5	78.7
87	10.8	8.3	12.5

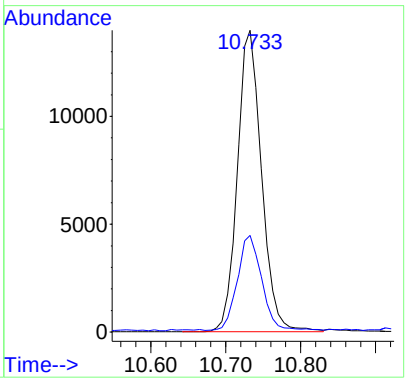


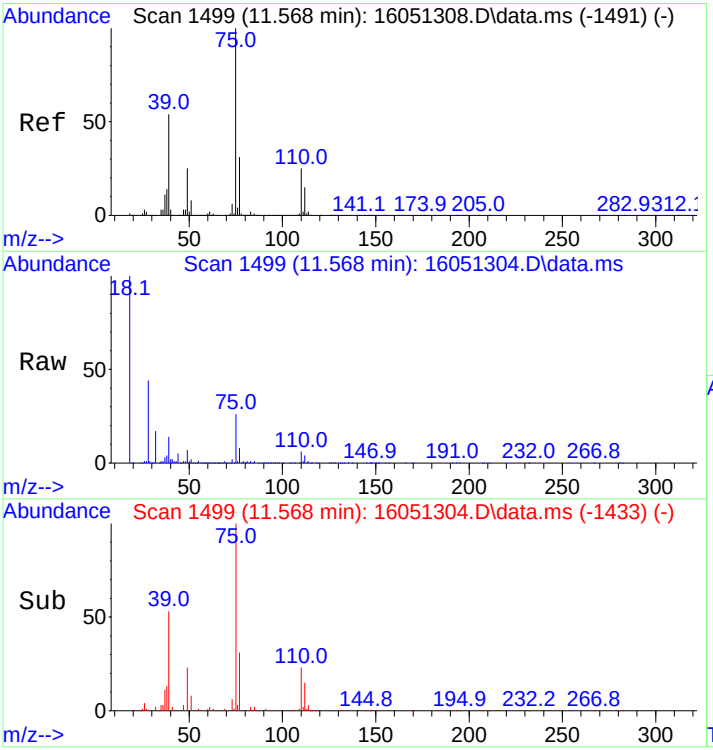


#29
cis,1,3-Dichloropropene
Concen: 56.77 ng
RT: 10.733 min Scan# 1388
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 31409

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4

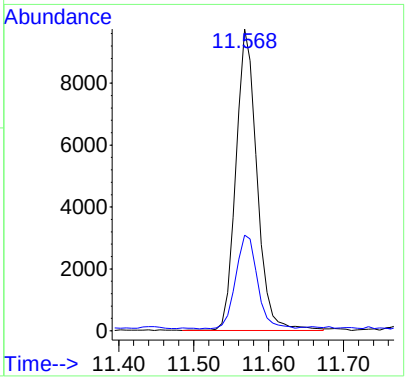


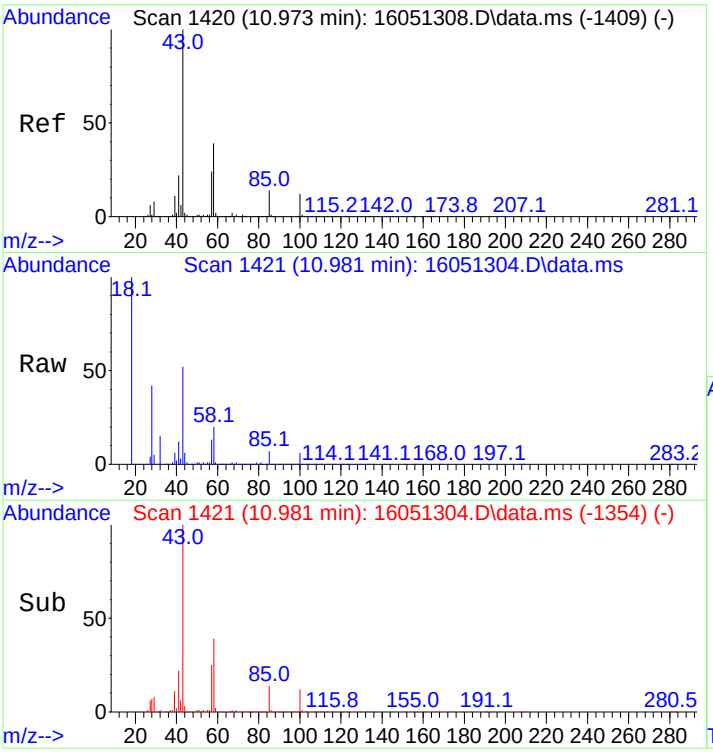


#30
trans,1,3-Dichloropropene
Concen: 50.45 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 18984

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.0	39.0

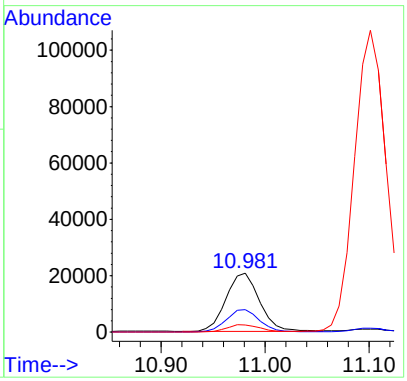


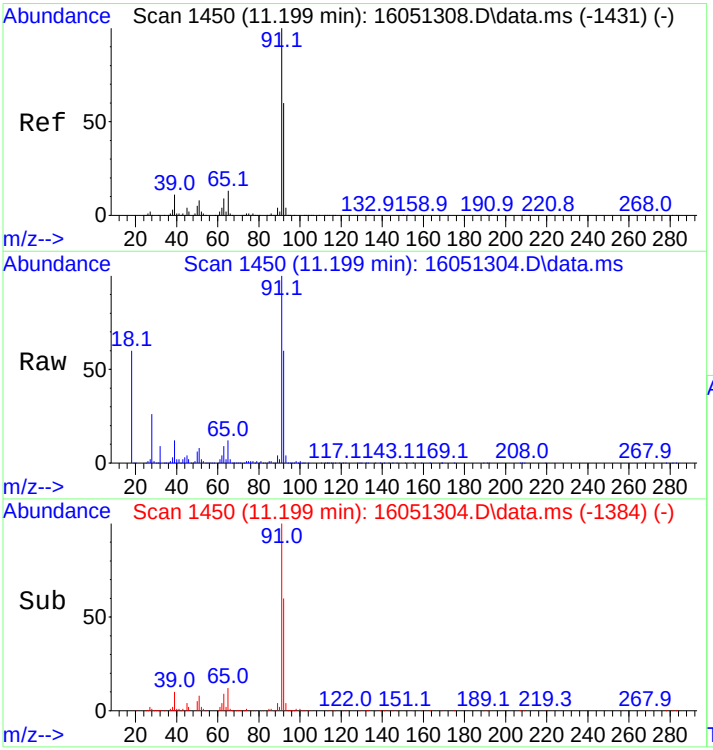


#31
4-Methyl-2-Pentanone
Concen: 63.51 ng
RT: 10.981 min Scan# 1421
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 46387

Ion	Ratio	Lower	Upper
43	100		
58	38.5	31.3	46.9
100	12.9	10.2	15.2

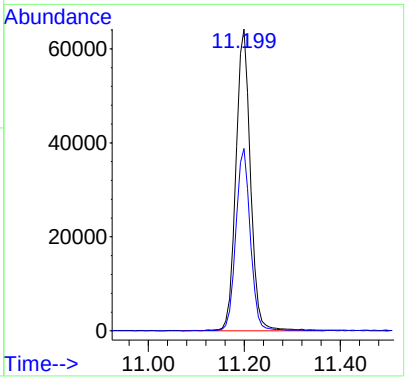


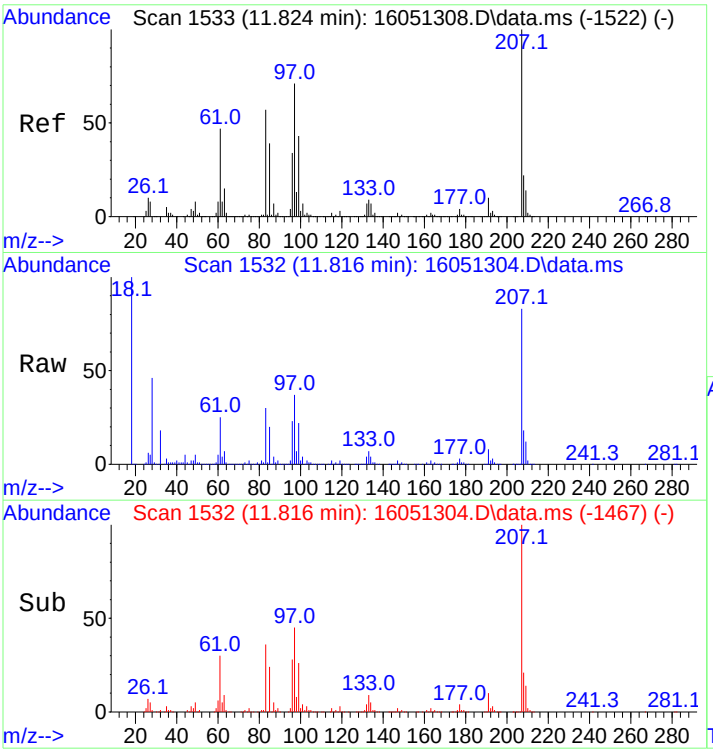


#33
Toluene
Concen: 59.47 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 135218

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.6	73.0

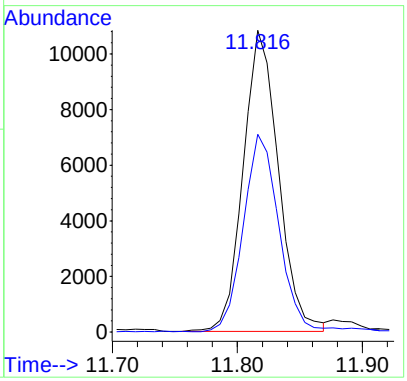


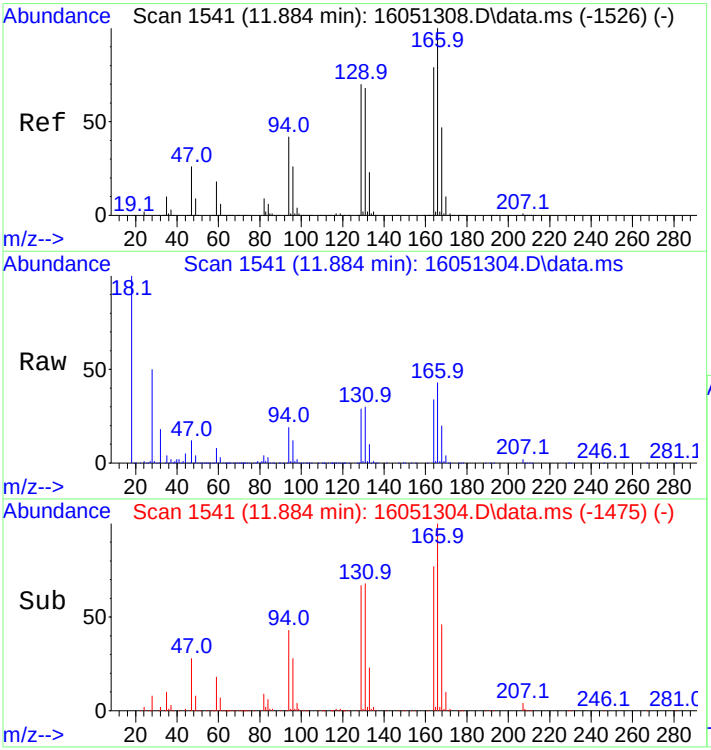


#34
1,1,2-Trichloroethane
Concen: 54.00 ng
RT: 11.816 min Scan# 1532
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 21220

Ion	Ratio	Lower	Upper
83	100		
85	66.8	54.7	82.1

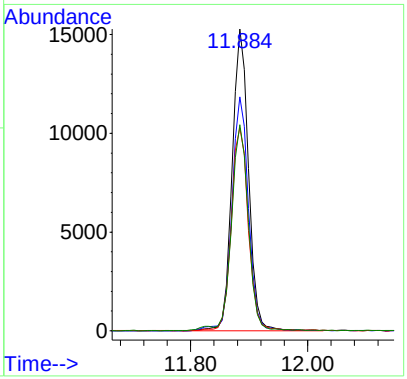


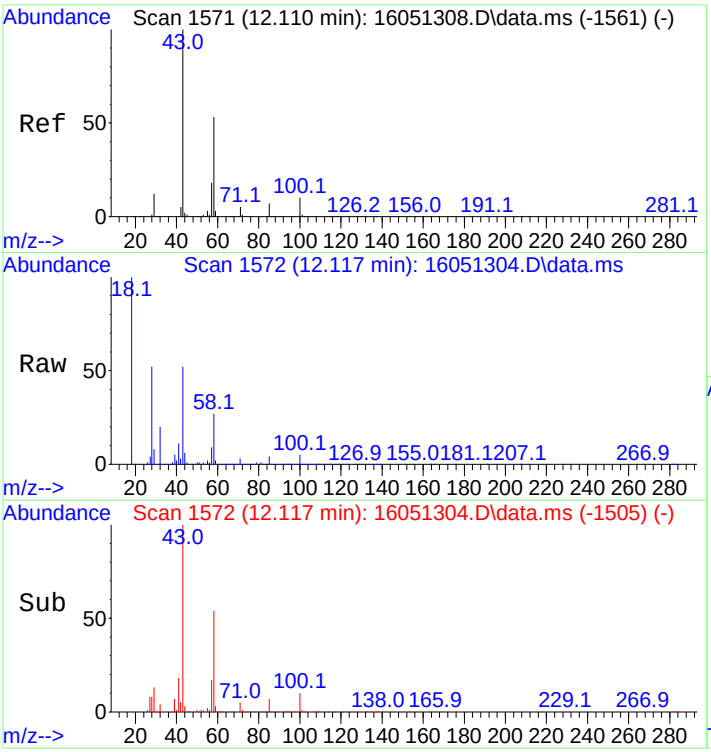


#35
Tetrachloroethene
Concen: 49.64 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:166 Resp: 29564

Ion	Ratio	Lower	Upper
166	100		
164	79.6	63.2	94.8
129	70.3	55.5	83.3
131	70.6	55.2	82.8

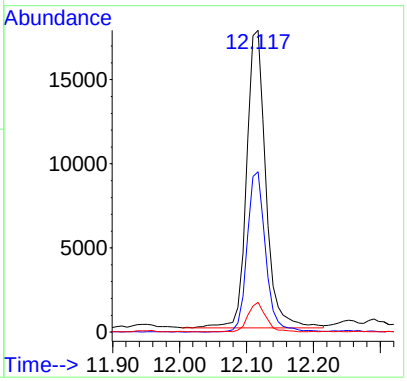


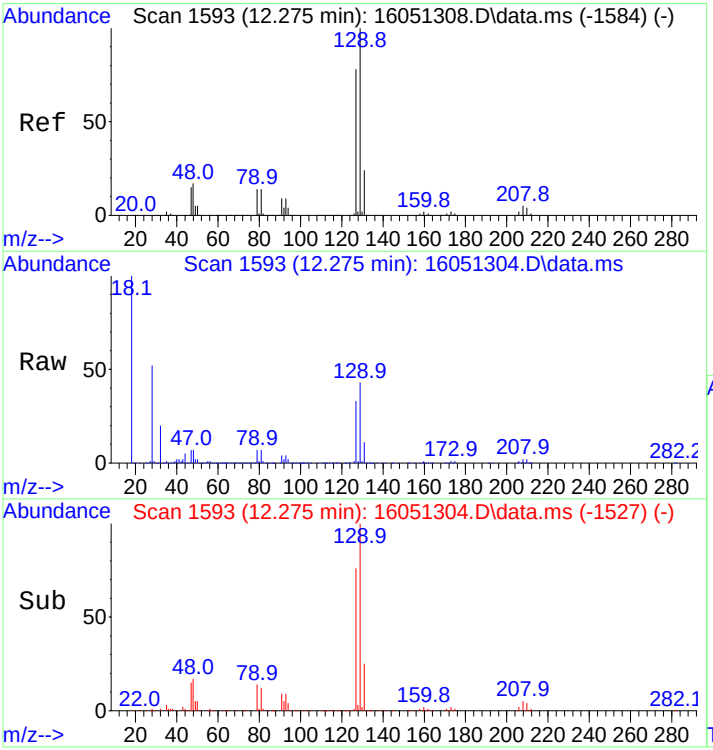


#36
2-Hexanone
Concen: 60.83 ng
RT: 12.117 min Scan# 1572
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 35488

Ion	Ratio	Lower	Upper
43	100		
58	51.7	43.6	65.4
100	9.3	7.8	11.8

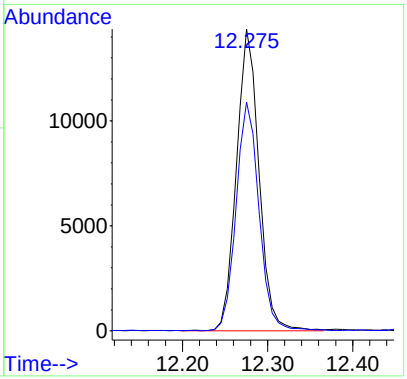


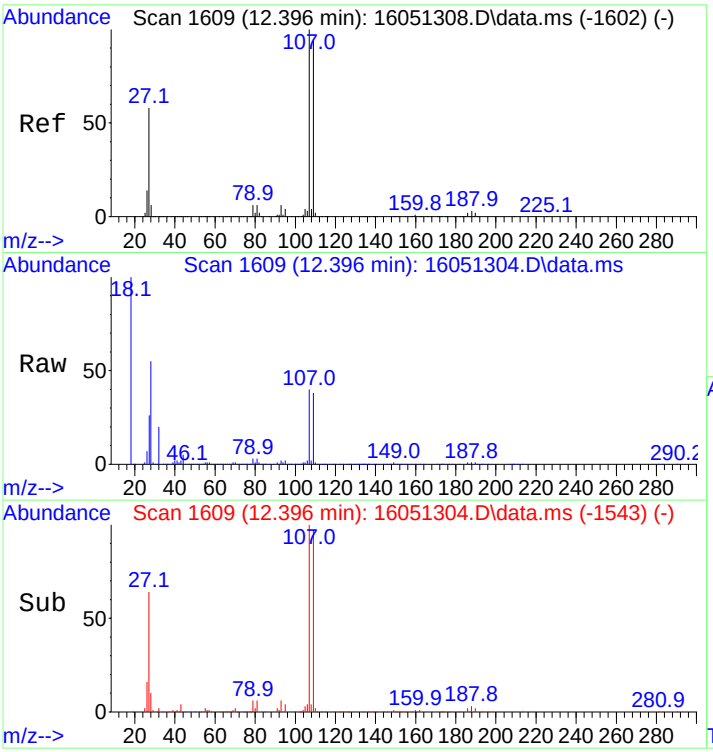


#37
Chlorodibromomethane
Concen: 49.71 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:129 Resp: 26498

Ion	Ratio	Lower	Upper
129	100		
127	77.1	62.3	93.5

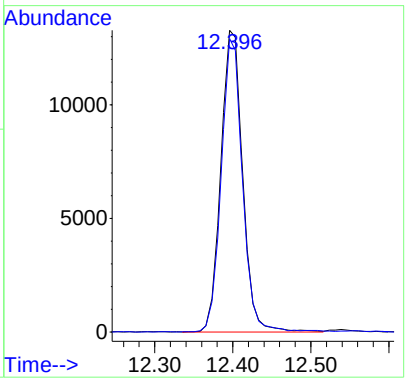


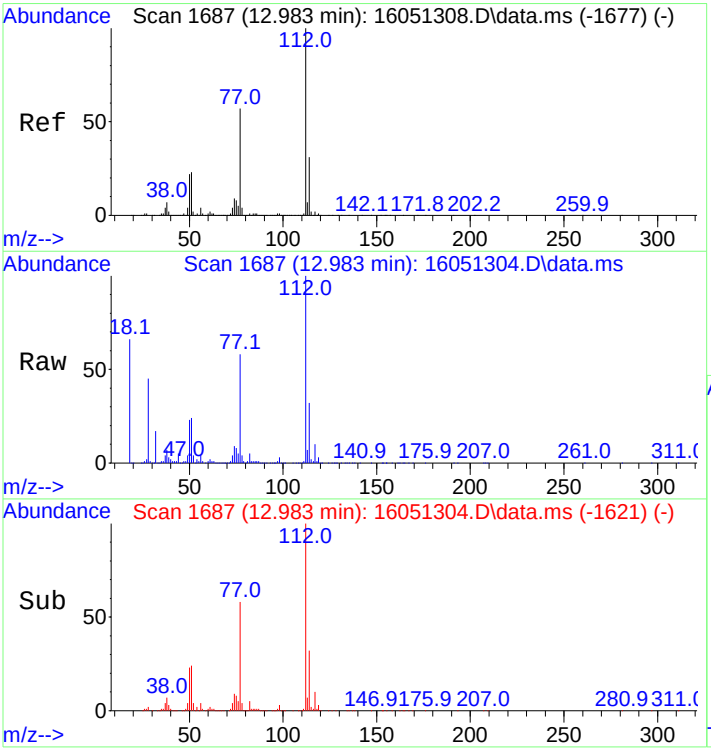


#38
Ethylene Dibromide
Concen: 53.04 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:107 Resp: 25805

Ion	Ratio	Lower	Upper
107	100		
109	95.0	74.3	111.5

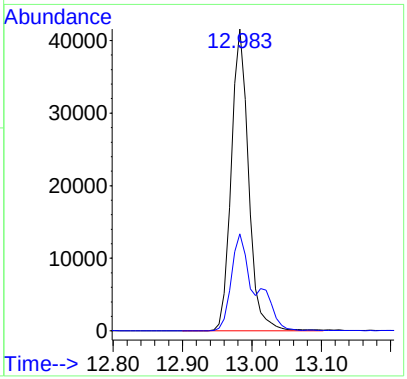


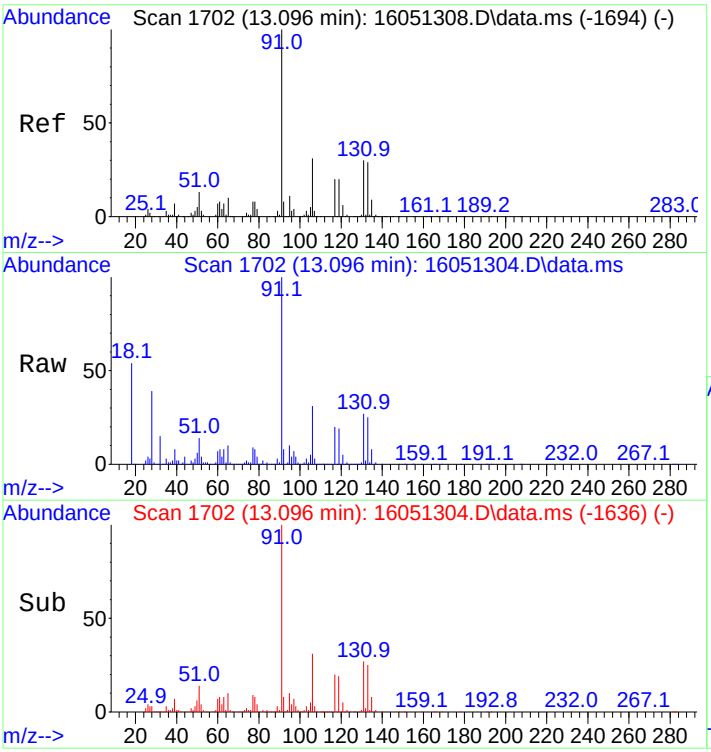


#39
Chlorobenzene
Concen: 51.69 ng
RT: 12.983 min Scan# 1687
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:112 Resp: 72230

Ion	Ratio	Lower	Upper
112	100		
114	44.7	27.5	41.3#

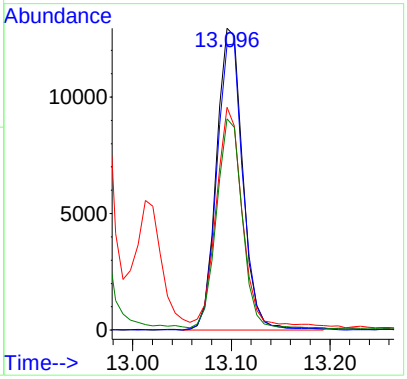


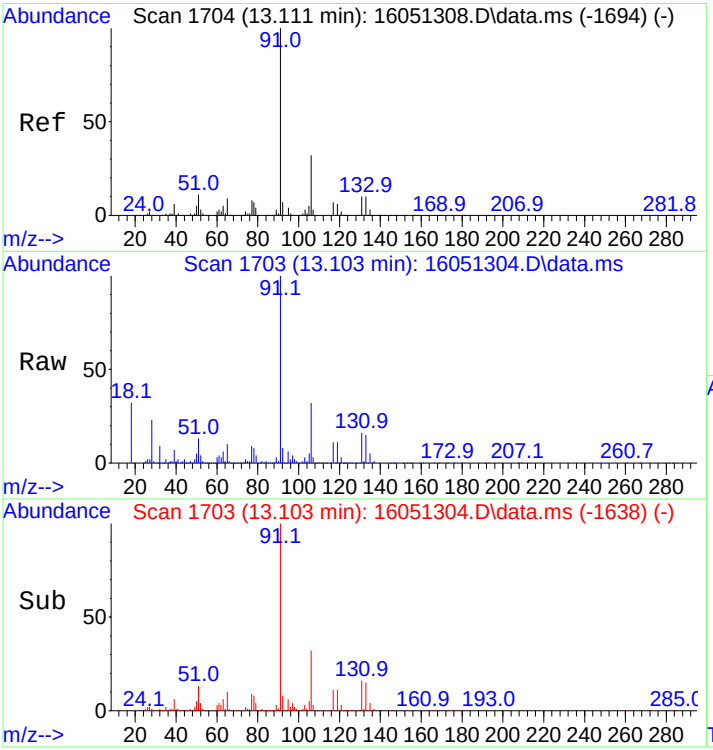


#40
1,1,1,2-Tetrachloroethane
Concen: 48.51 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:131 Resp: 24056

Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.8	116.6
117	74.5	57.1	85.7
119	68.5	54.3	81.5

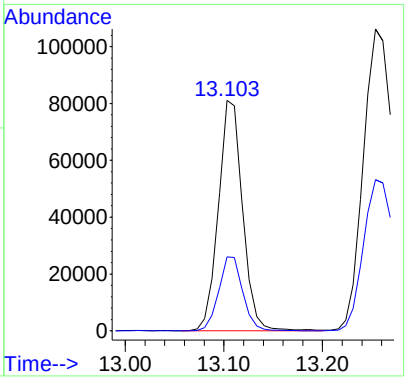


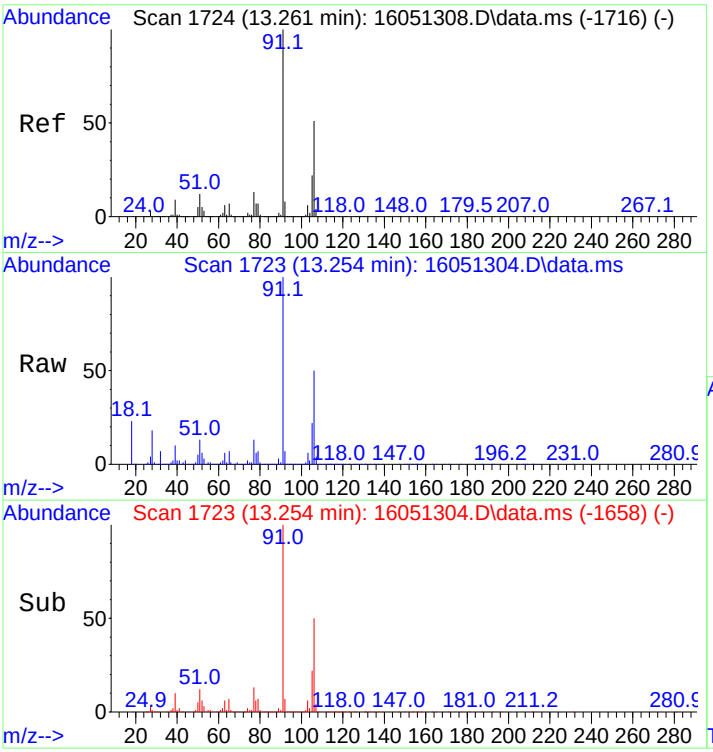


#41
Ethylbenzene
Concen: 53.45 ng
RT: 13.103 min Scan# 1703
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 138082

Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.5	38.3

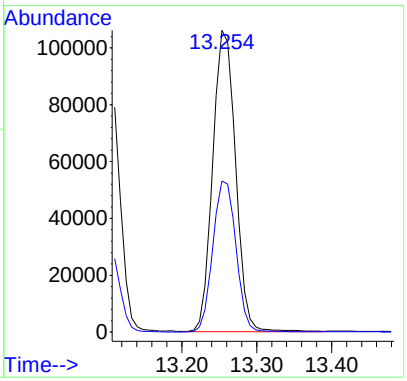


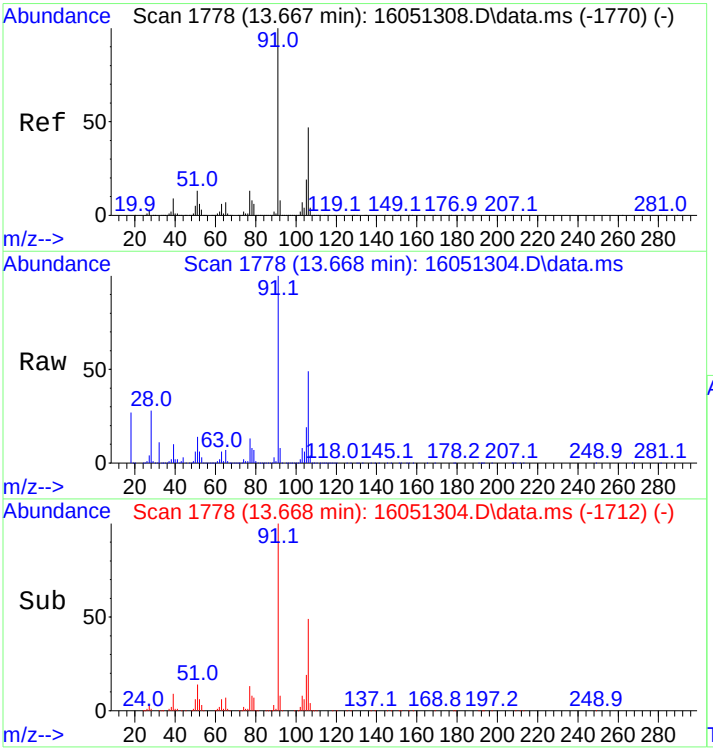


#42
M&P-Xylene
Concen: 102.37 ng
RT: 13.254 min Scan# 1723
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 224893

Ion	Ratio	Lower	Upper
91	100		
106	50.8	40.4	60.6

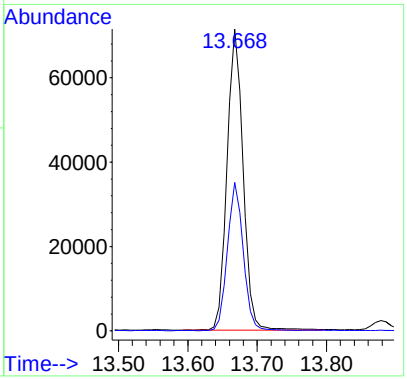


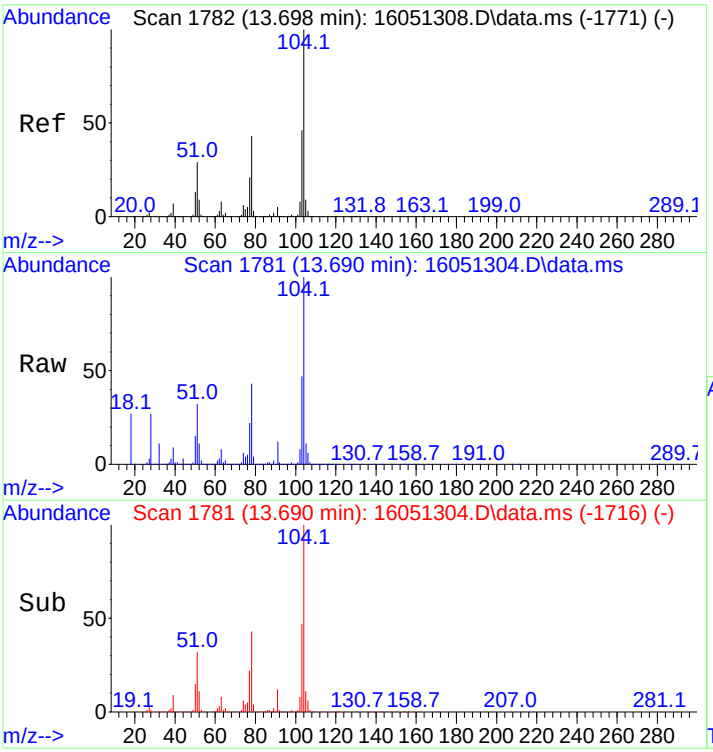


#43
O-Xylene
Concen: 50.50 ng
RT: 13.668 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 114995

Ion	Ratio	Lower	Upper
91	100		
106	48.5	38.2	57.2

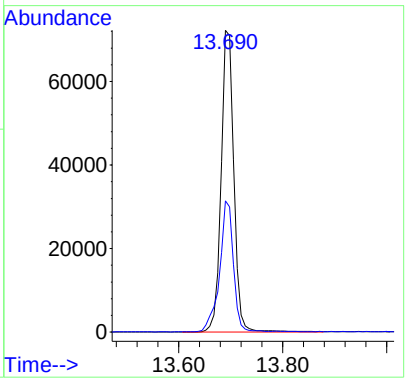


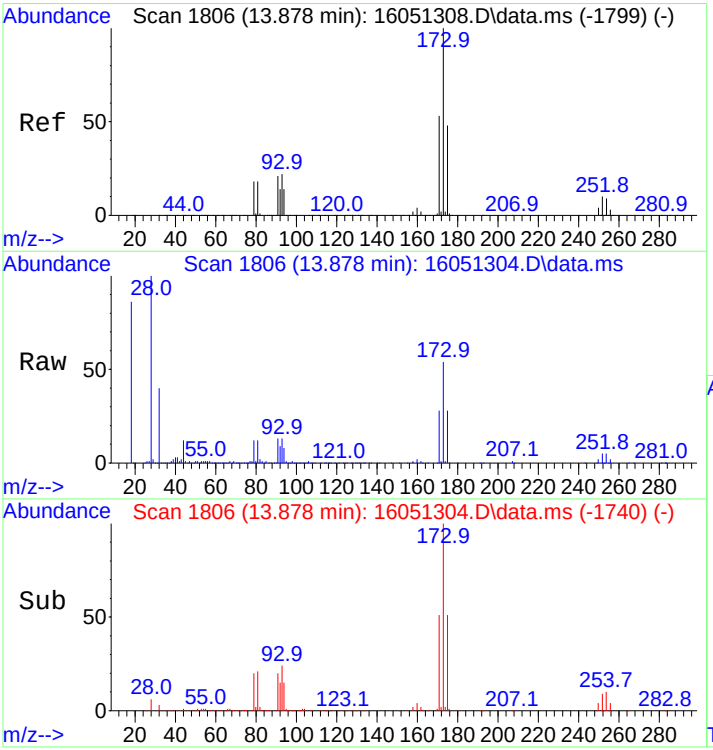


#44
Styrene
Concen: 63.04 ng
RT: 13.690 min Scan# 1781
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:104 Resp: 122543

Ion	Ratio	Lower	Upper
104	100		
78	46.9	39.8	59.6

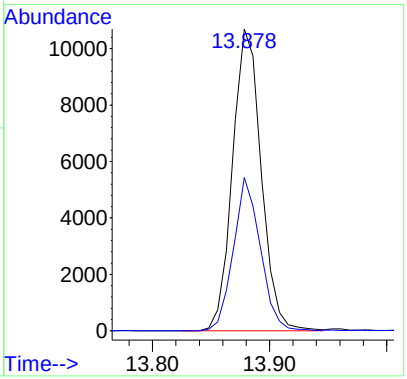


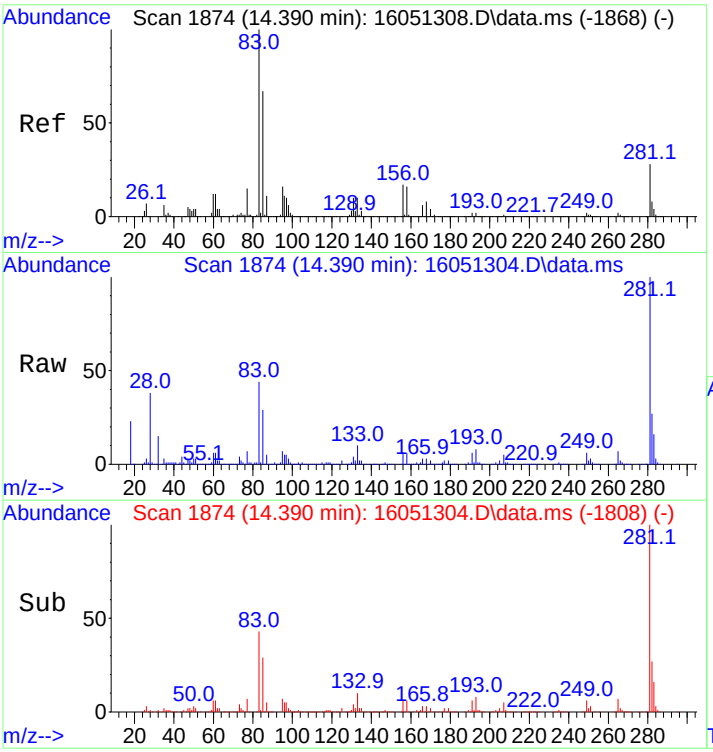


#45
Bromoform
Concen: 43.31 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:173 Resp: 18193

Ion	Ratio	Lower	Upper
173	100		
175	47.7	38.5	57.7

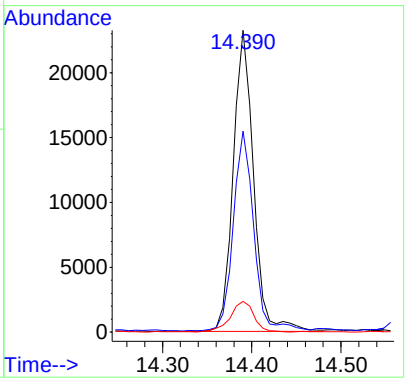


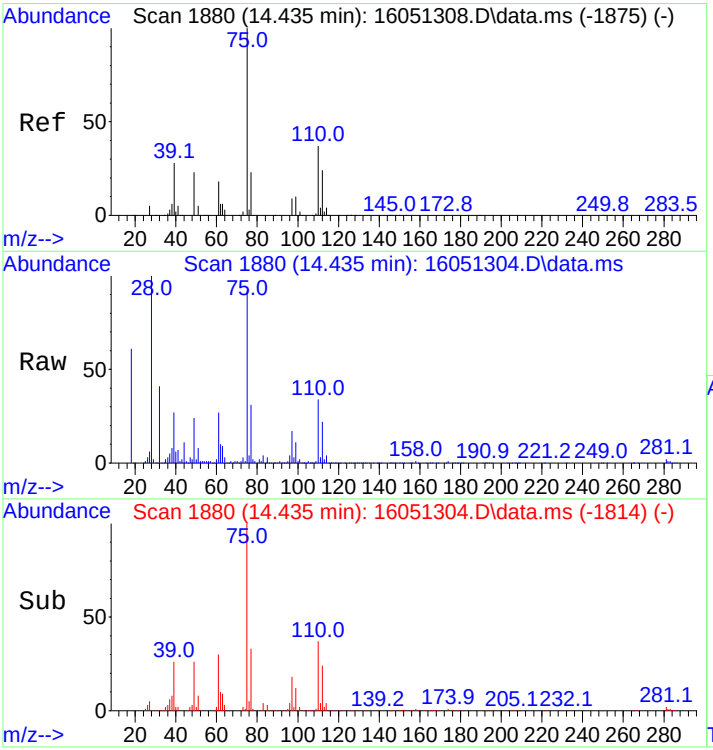


#46
1,1,2,2-Tetrachloroethane
Concen: 55.81 ng
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 37052

Ion	Ratio	Lower	Upper
83	100		
85	66.4	53.1	79.7
131	11.7	8.9	13.3

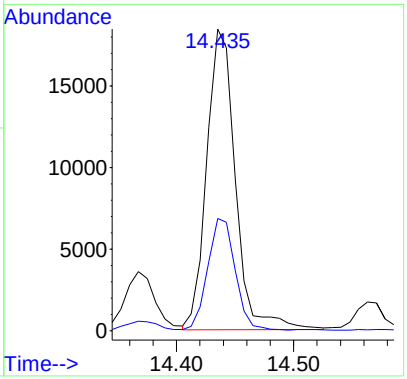


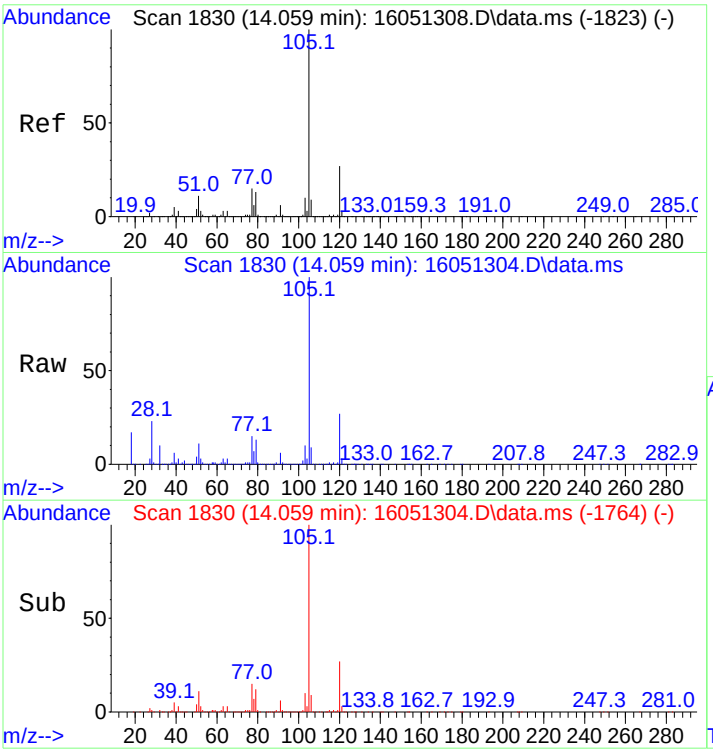


#47
1,2,3-Trichloropropane
Concen: 57.42 ng
RT: 14.435 min Scan# 1880
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 31491

Ion	Ratio	Lower	Upper
75	100		
110	36.1	30.5	45.7

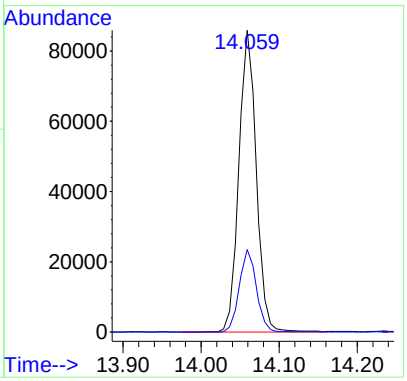


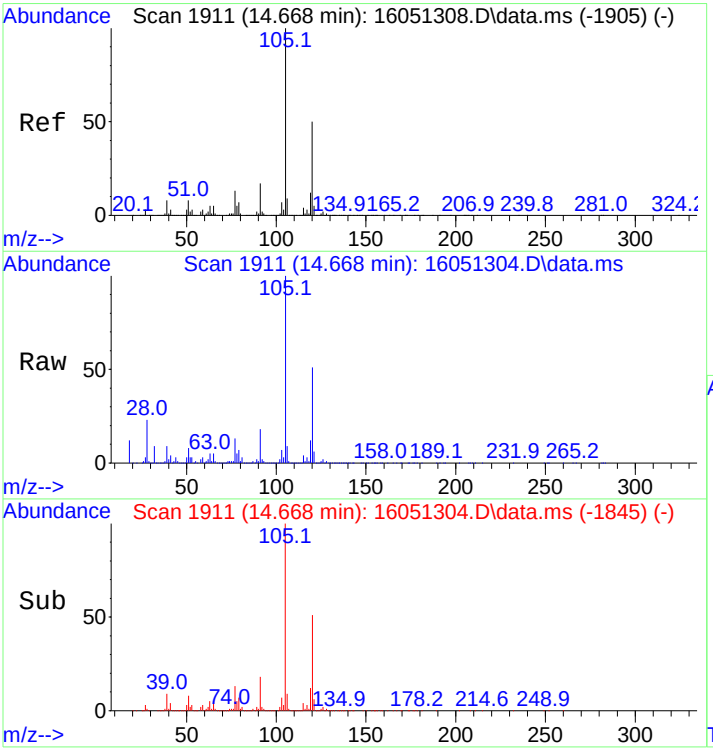


#51
Isopropylbenzene
Concen: 50.31 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 133145

Ion	Ratio	Lower	Upper
105	100		
120	27.1	21.4	32.2

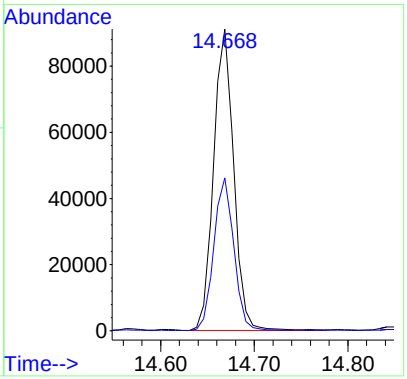


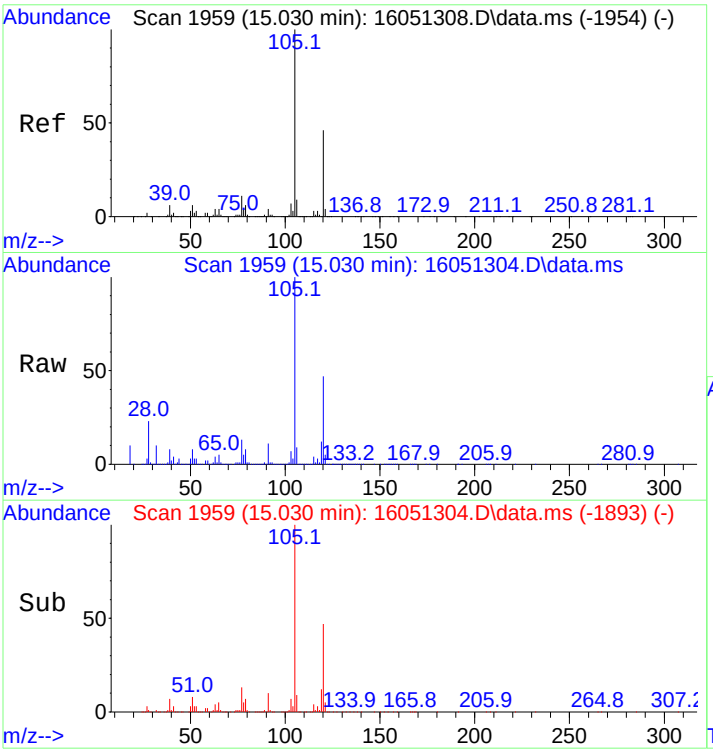


#52
1,3,5-Trimethylbenzene
Concen: 52.81 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 136200

Ion	Ratio	Lower	Upper
105	100		
120	50.6	39.9	59.9

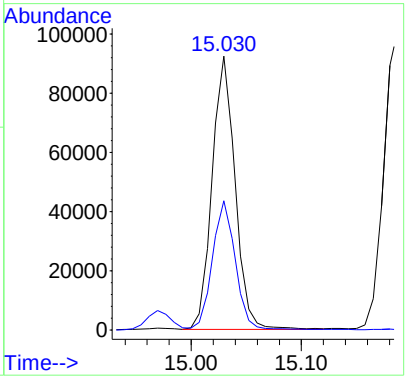


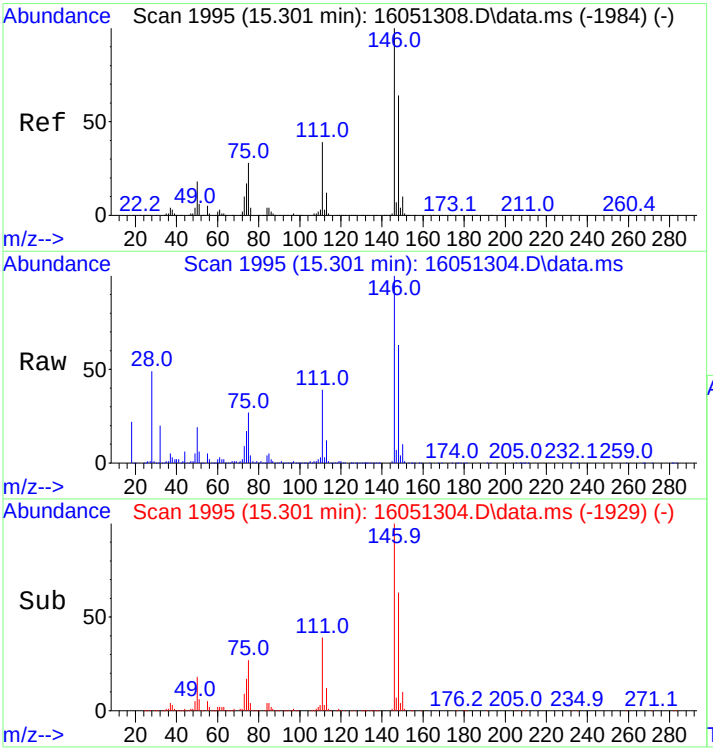


#53
1,2,4-Trimethylbenzene
Concen: 52.84 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 134558

Ion	Ratio	Lower	Upper
105	100		
120	46.8	37.5	56.3

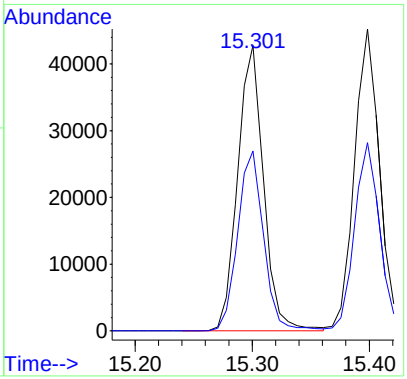


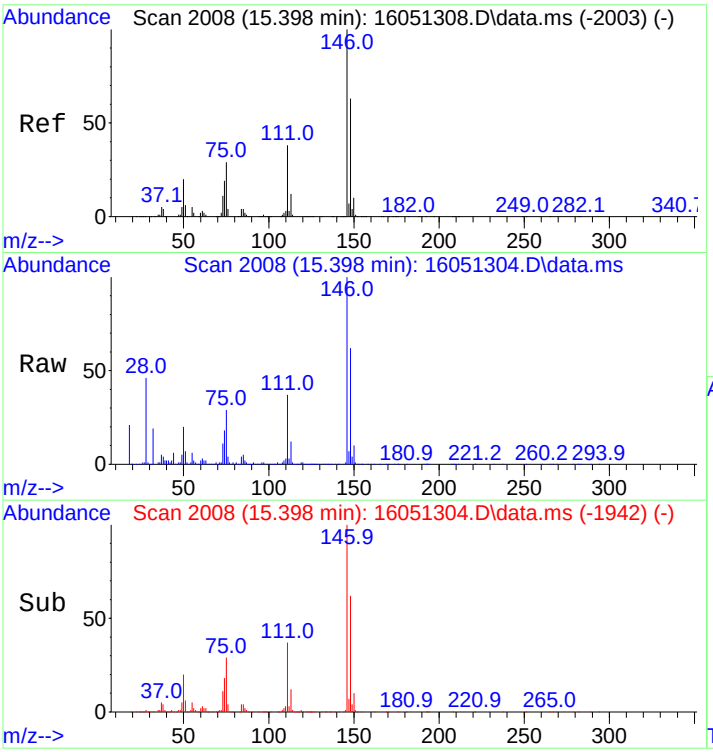


#54
1,3-Dichlorobenzene
Concen: 49.44 ng
RT: 15.301 min Scan# 1995
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:146 Resp: 65711

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.6	76.0

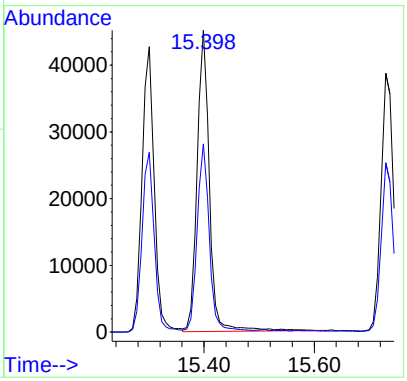


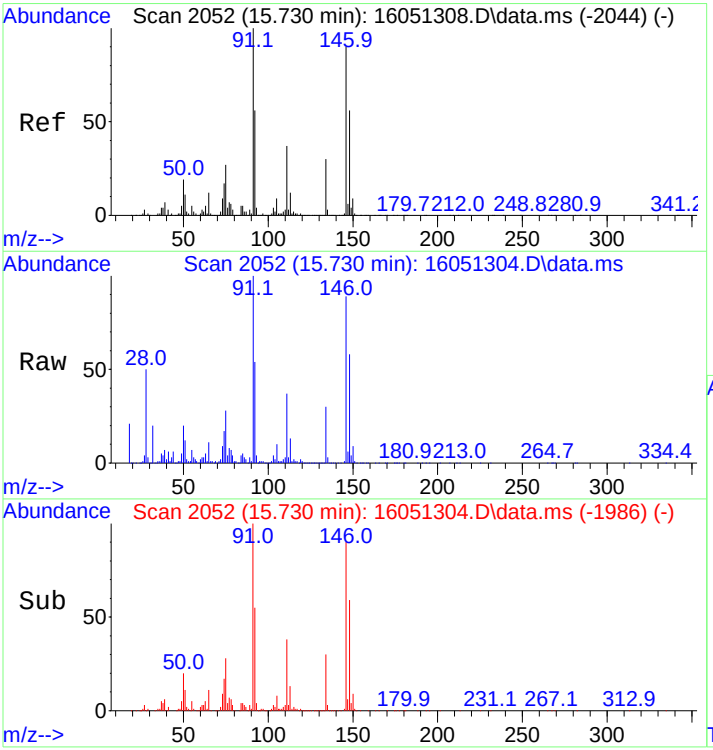


#55
1,4-Dichlorobenzene
Concen: 50.10 ng
RT: 15.398 min Scan# 2008
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:146 Resp: 70391

Ion	Ratio	Lower	Upper
146	100		
148	61.7	49.9	74.9

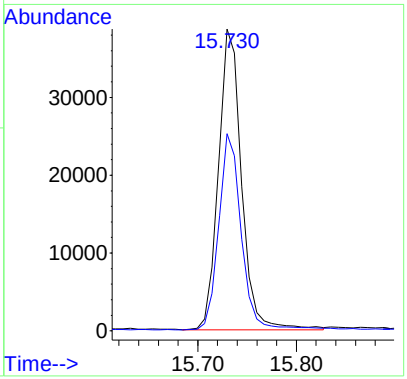


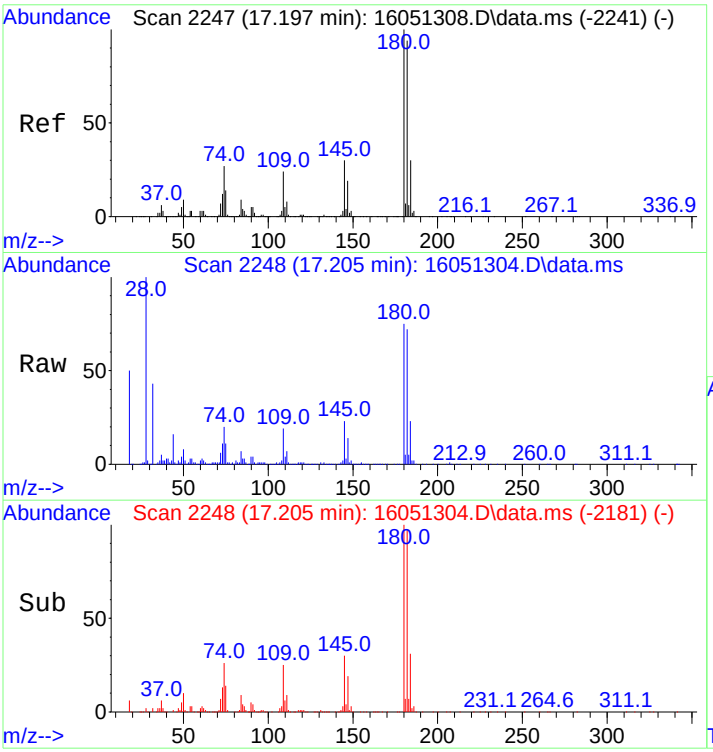


#56
1,2-Dichlorobenzene
Concen: 50.02 ng
RT: 15.730 min Scan# 2052
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:146 Resp: 62886

Ion	Ratio	Lower	Upper
146	100		
148	65.1	49.9	74.9

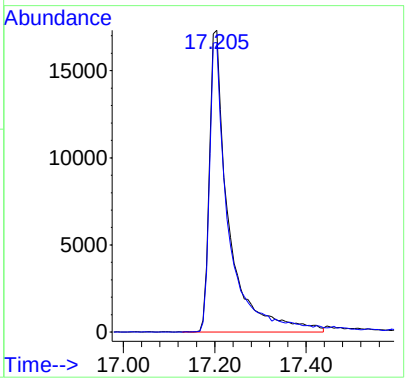


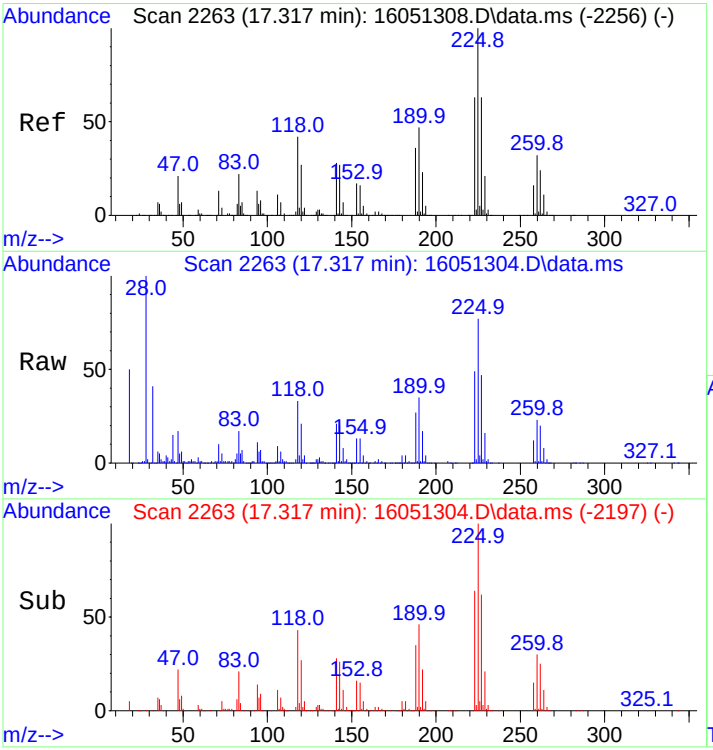


#57
1,2,4-Trichlorobenzene
Concen: 47.60 ng
RT: 17.205 min Scan# 2248
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:180 Resp: 50753

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.0	112.4

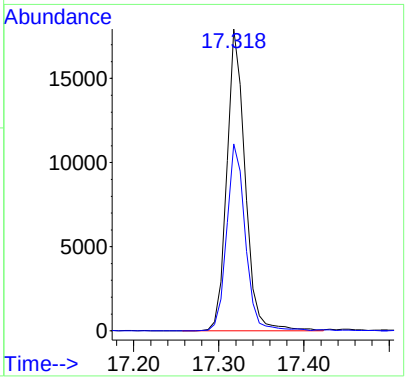


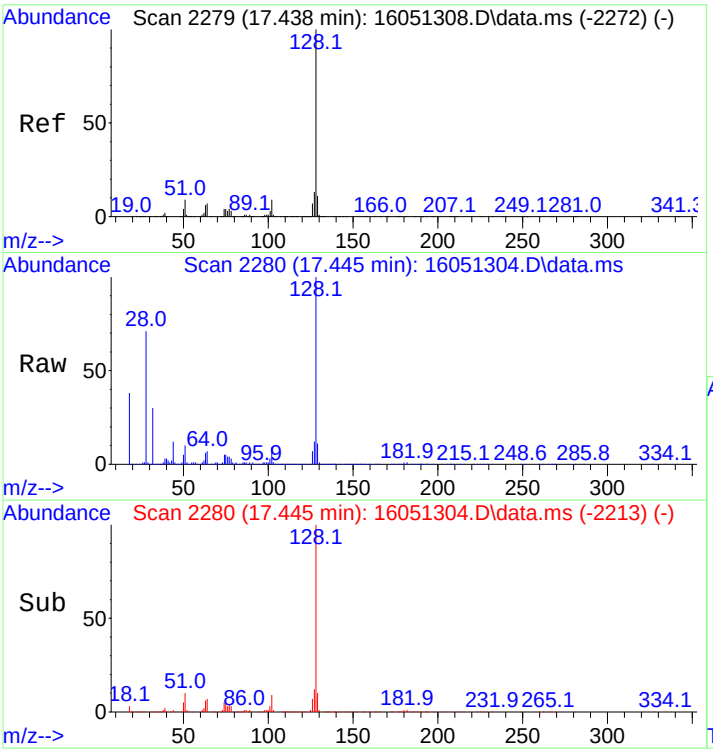


#58
Hexachlorobutadiene
Concen: 47.80 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:225 Resp: 26787

Ion	Ratio	Lower	Upper
225	100		
227	62.9	51.1	76.7

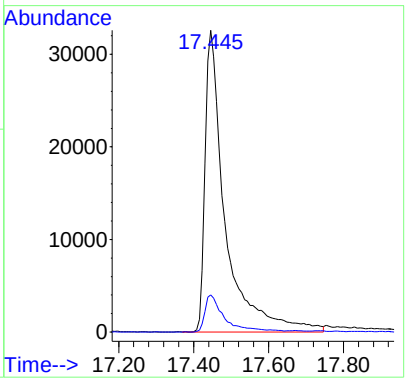


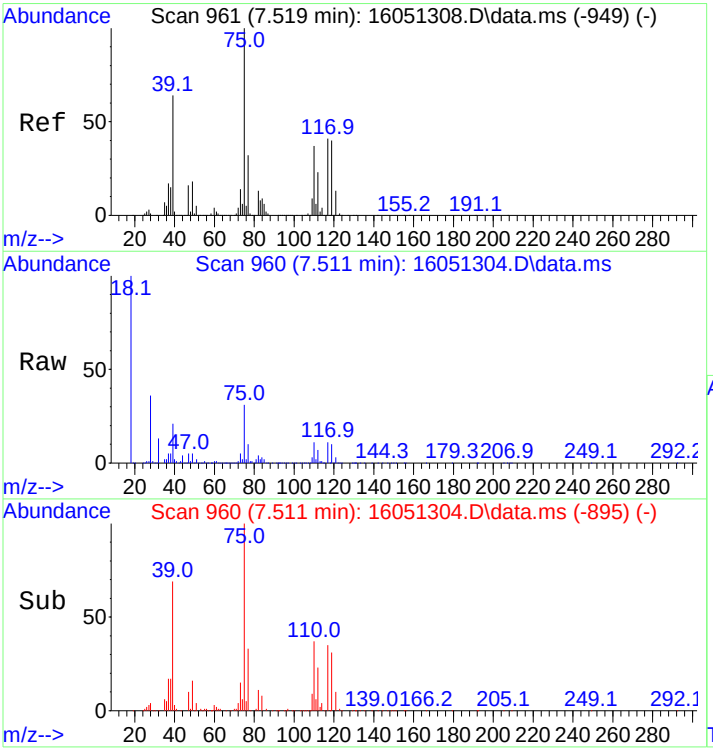


#59
Naphthalene
Concen: 46.54 ng
RT: 17.445 min Scan# 2280
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:128 Resp: 121808

Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.8	14.8

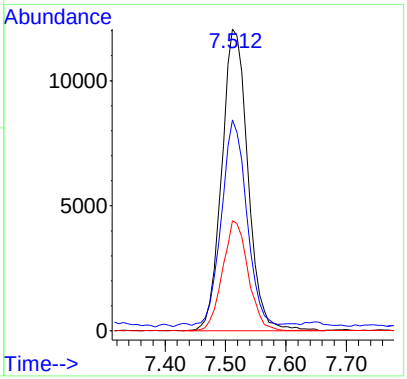


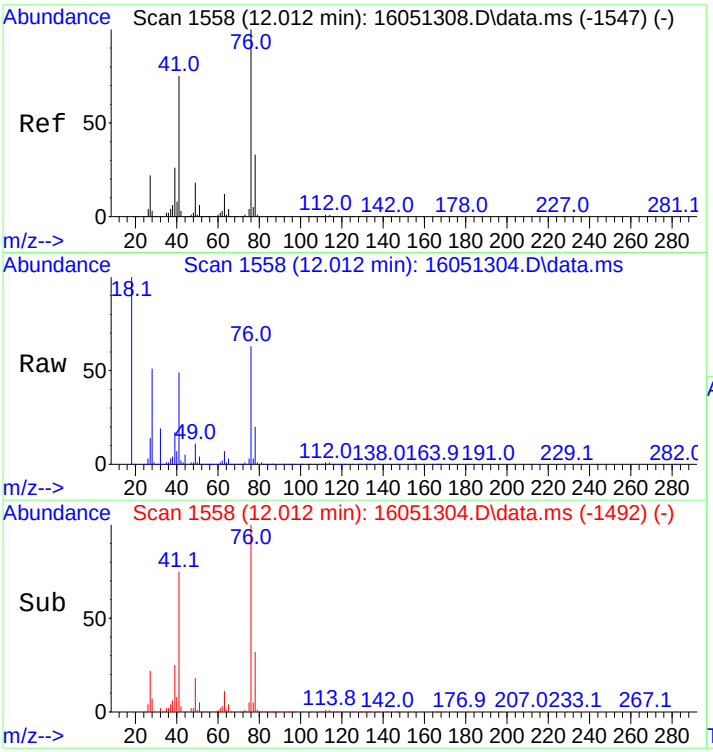


#60
1,1-Dichloropropene
Concen: 49.75 ng
RT: 7.511 min Scan# 960
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 36245

Ion	Ratio	Lower	Upper
75	100		
39	66.1	51.8	77.6
110	35.7	29.3	43.9

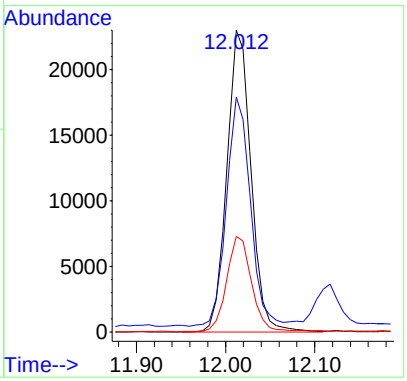


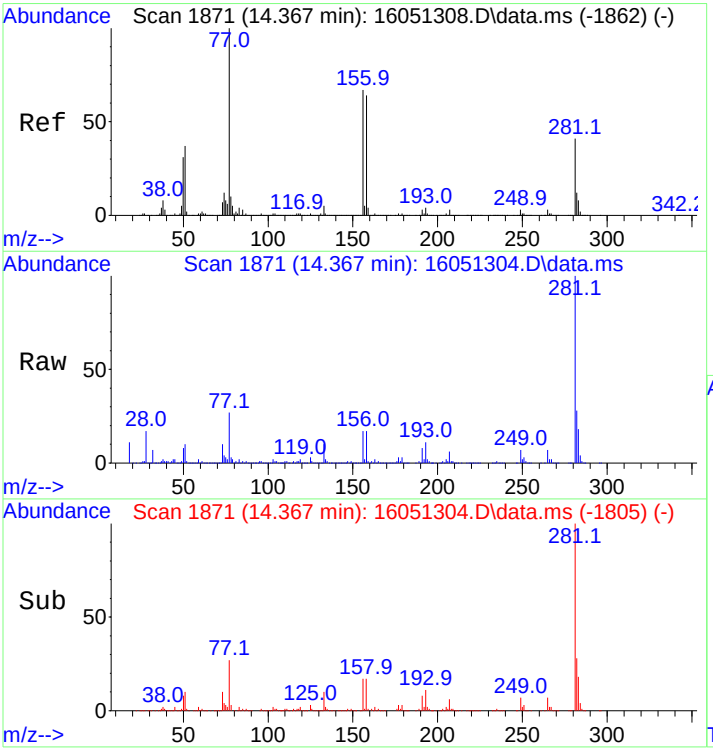


#61
1,3-Dichloropropane
Concen: 53.43 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 76 Resp: 43419

Ion	Ratio	Lower	Upper
76	100		
41	75.6	58.2	87.4
78	32.9	26.1	39.1

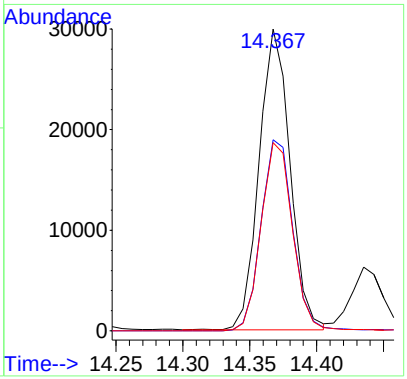


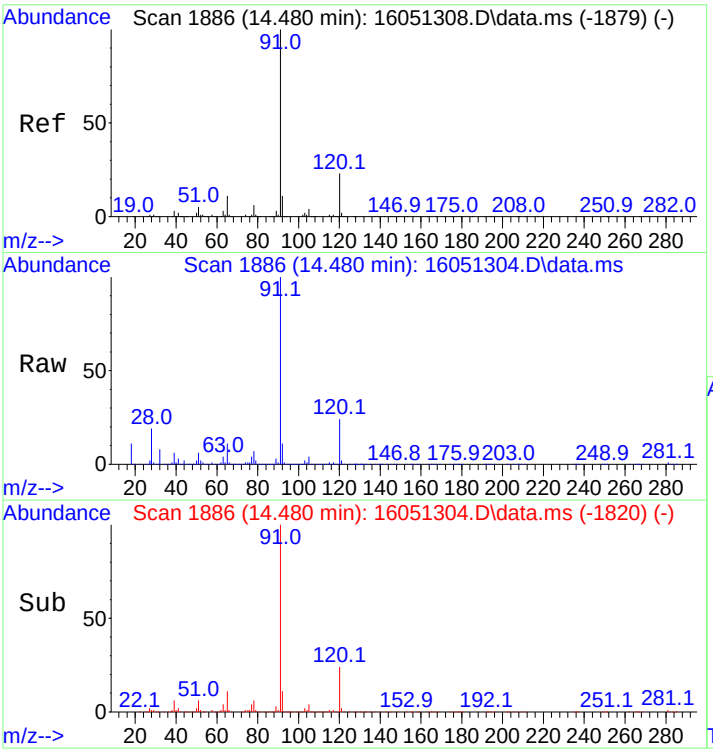


#62
Bromobenzene
Concen: 51.11 ng
RT: 14.367 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 77 Resp: 48139

Ion	Ratio	Lower	Upper
77	100		
156	65.9	55.0	82.4
158	64.0	53.3	79.9

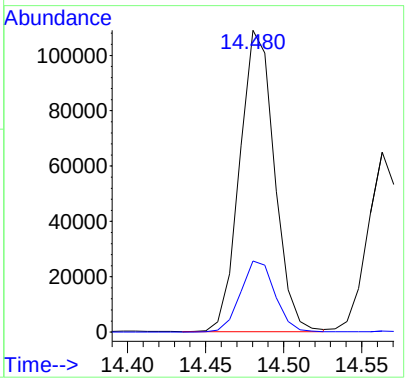


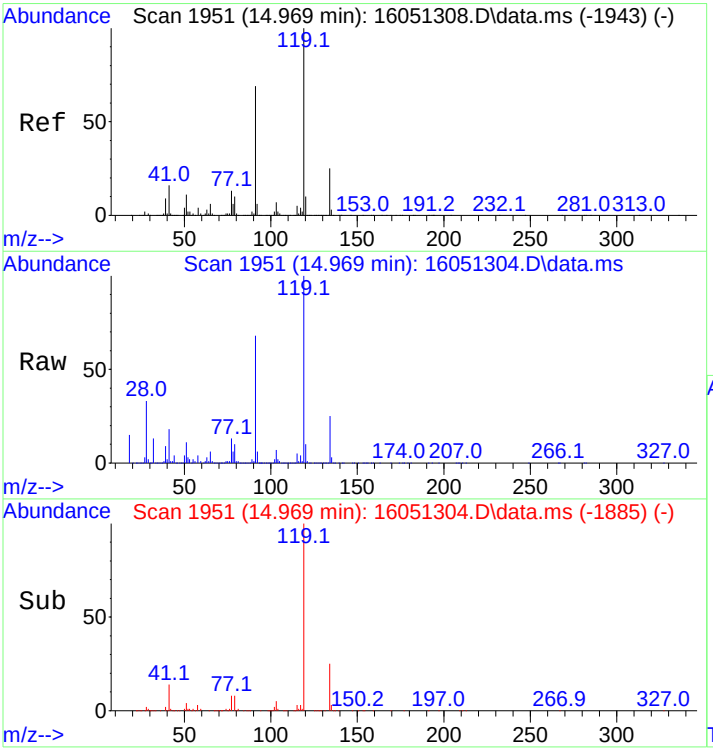


#63
n-Propylbenzene
Concen: 50.34 ng
RT: 14.480 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 168616

Ion	Ratio	Lower	Upper
91	100		
120	23.5	18.6	28.0

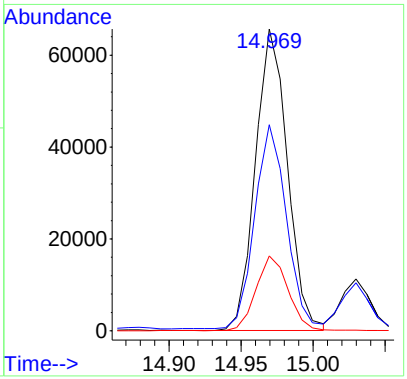


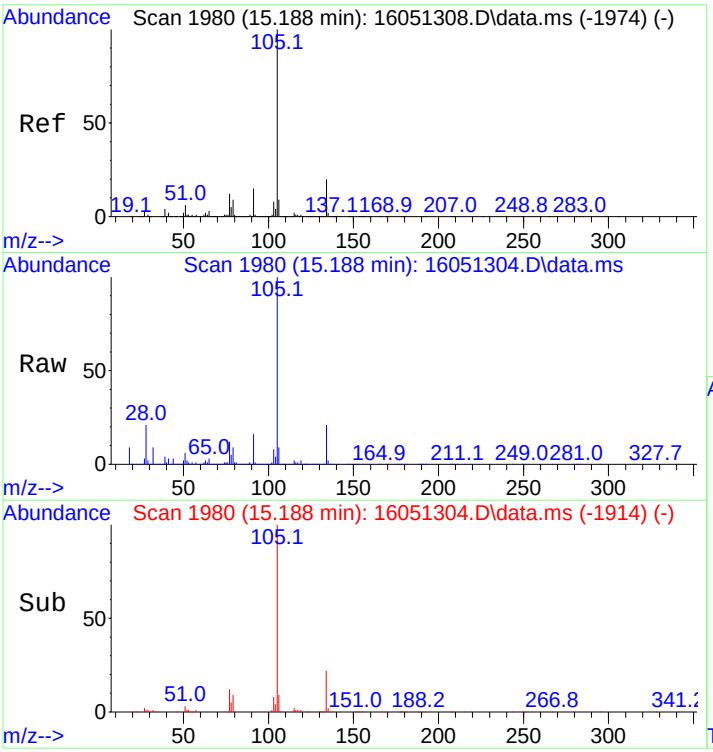


#64
tert-Butylbenzene
Concen: 50.47 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:119 Resp: 101196

Ion	Ratio	Lower	Upper
119	100		
91	66.9	54.0	81.0
134	25.0	19.9	29.9

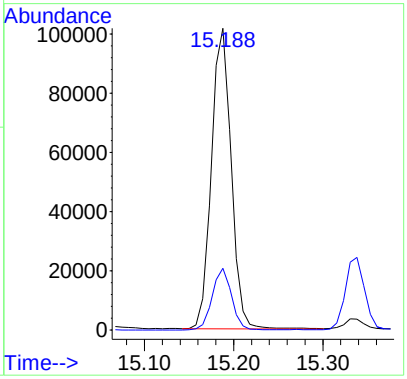


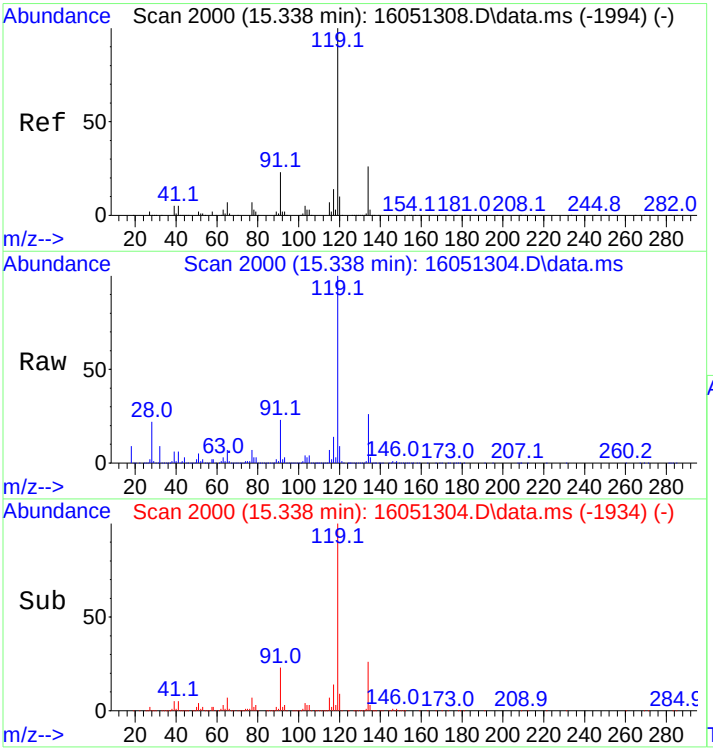


#65
sec-Butylbenzene
Concen: 50.52 ng
RT: 15.188 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 156093

Ion	Ratio	Lower	Upper
105	100		
134	20.1	15.7	23.5

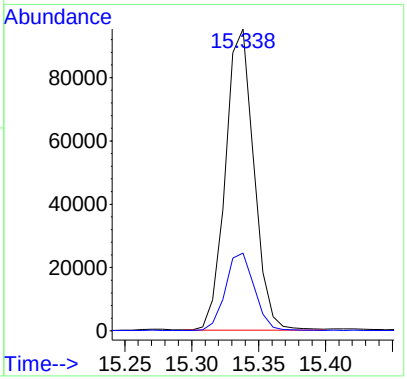


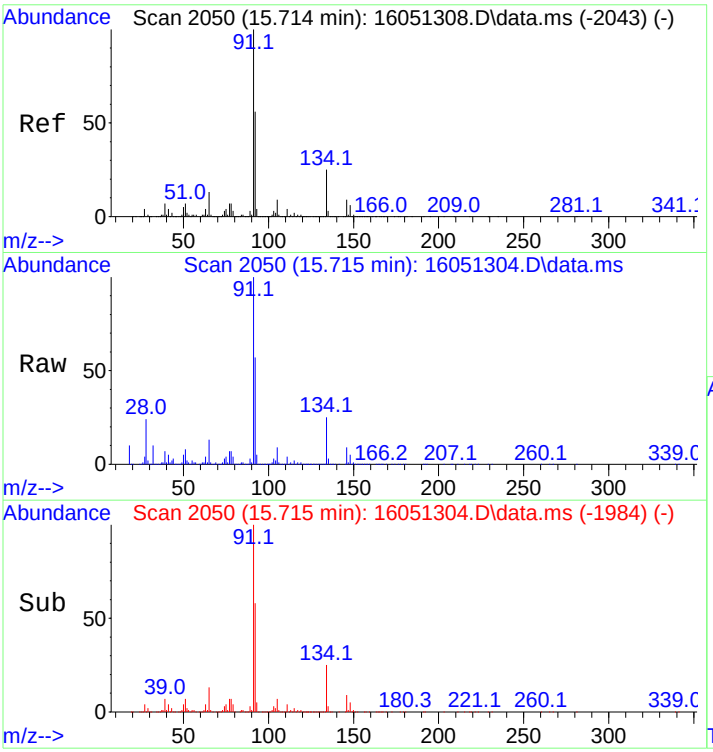


#66
p-Isopropyltoluene
Concen: 51.92 ng
RT: 15.338 min Scan# 2000
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:119 Resp: 141427

Ion	Ratio	Lower	Upper
119	100		
134	26.4	20.6	31.0

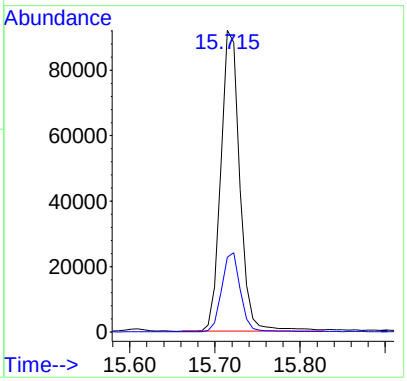


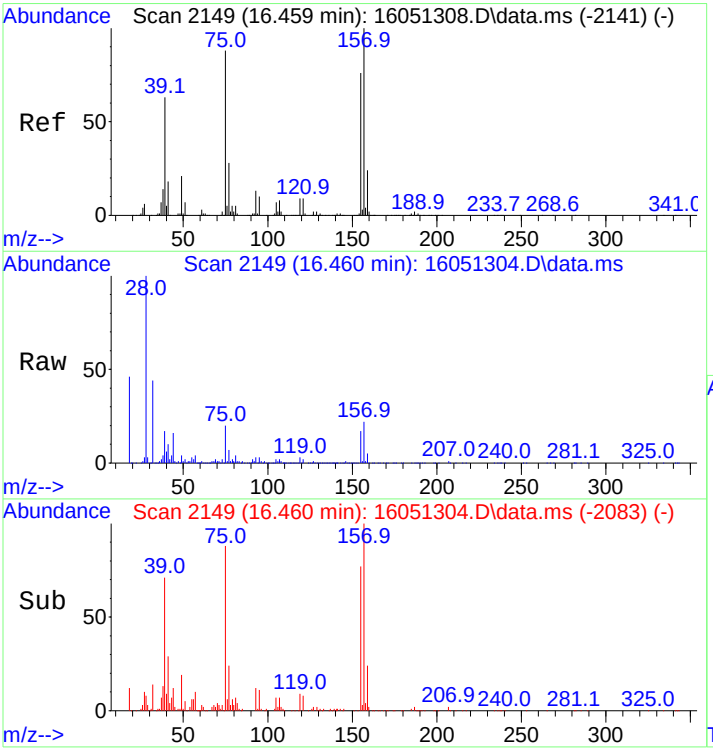


#67
n-Butylbenzene
Concen: 54.33 ng
RT: 15.715 min Scan# 2050
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 143069

Ion	Ratio	Lower	Upper
91	100		
134	26.1	21.0	31.6

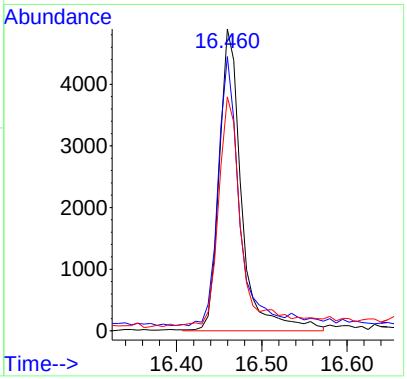




#68
1,2-Dibromo-3-chloropropane
Concen: 54.27 ng
RT: 16.460 min Scan# 2149
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:157 Resp: 8973

Ion	Ratio	Lower	Upper
157	100		
75	83.3	68.6	103.0
155	80.0	62.2	93.2



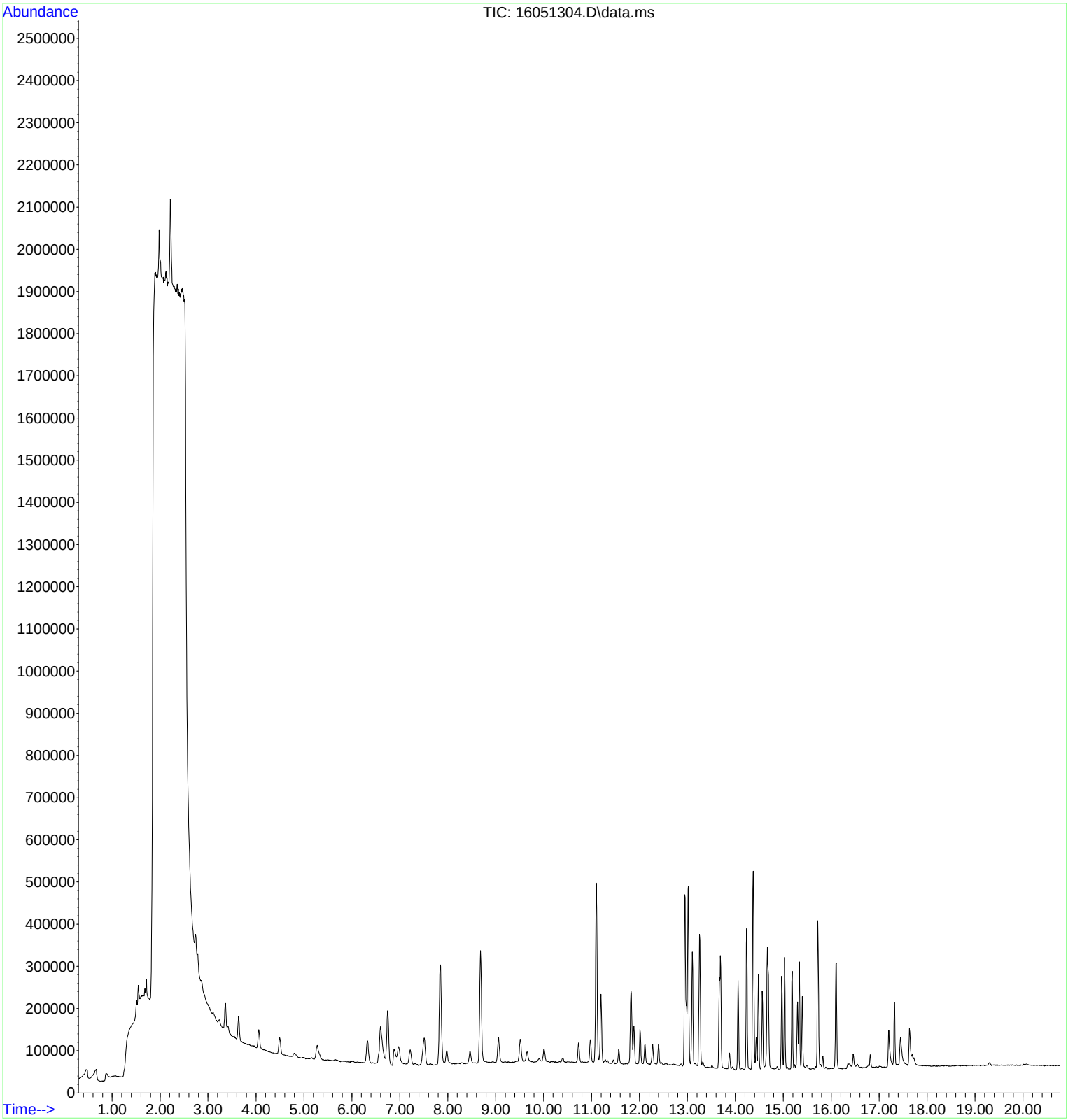
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

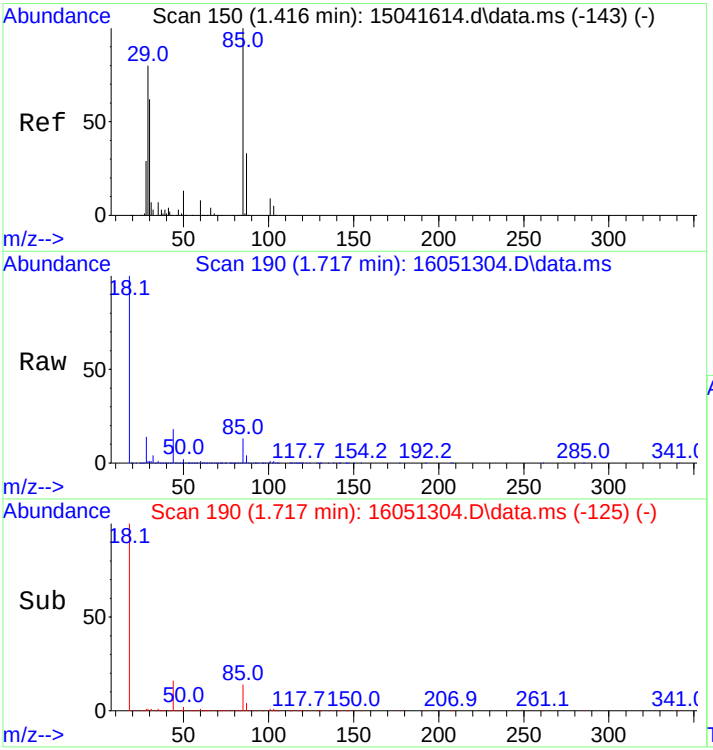
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051304.D
Acq On : 13 May 2016 12:16 pm
Operator : SG Instrument MSD-3
Sample : 50NG-VOSTSTD
Misc : Coder SG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 14:34:14 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:29:30 2016
Response via : Initial Calibration

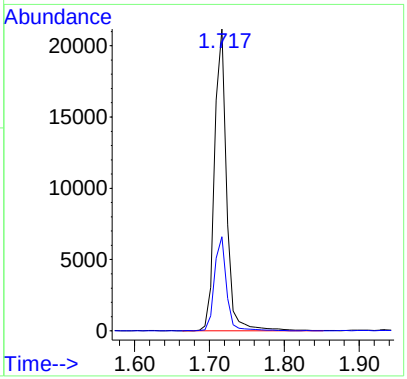


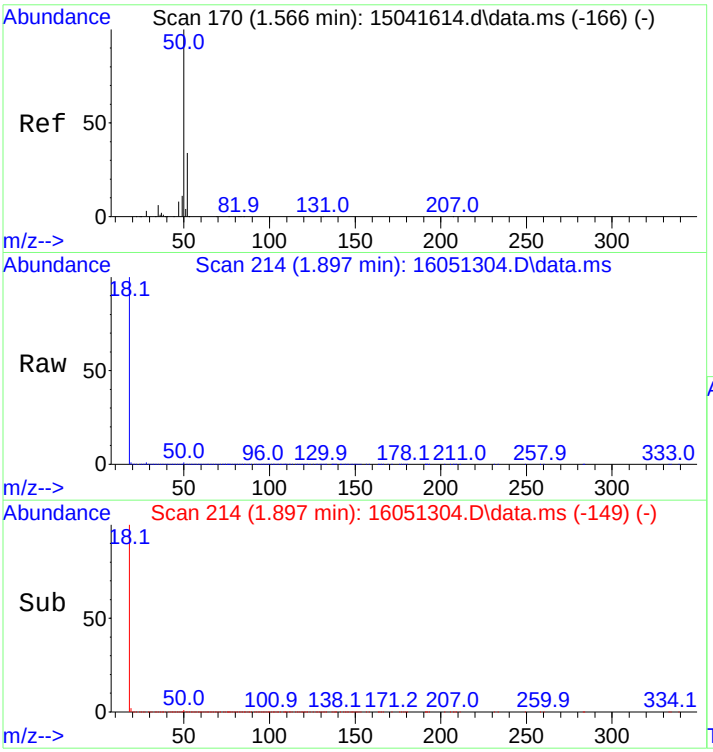


#2
Dichlorodifluoromethane
Concen: 56.44 ng
RT: 1.717 min Scan# 190
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 85 Resp: 23526

Ion	Ratio	Lower	Upper
85	100		
87	31.4	26.0	39.0

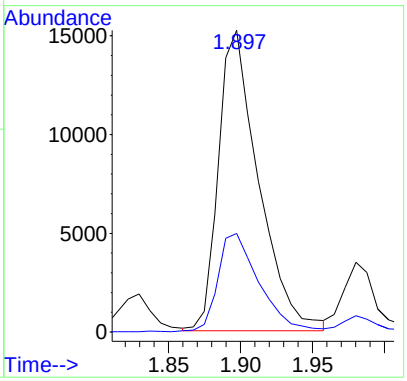


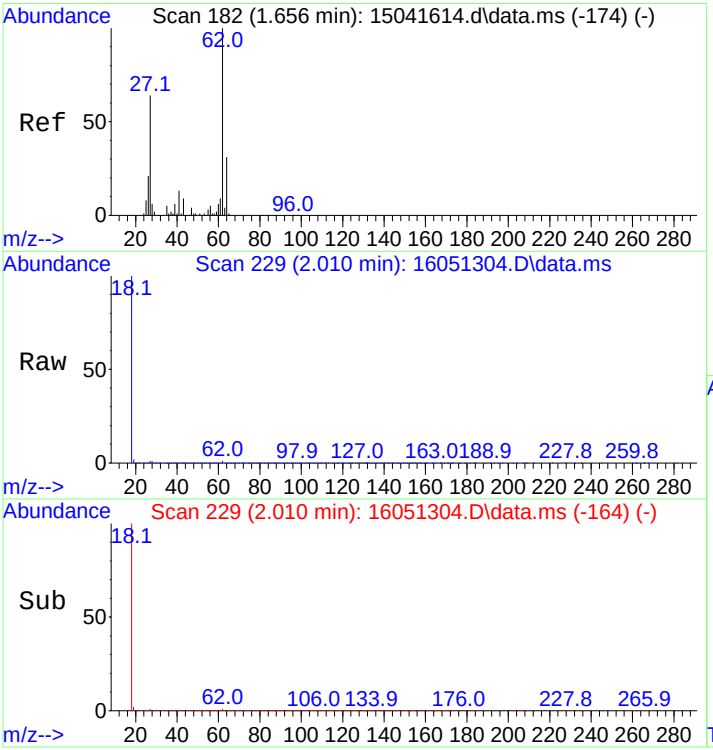


#3
Chloromethane
Concen: 60.07 ng m
RT: 1.897 min Scan# 214
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 50 Resp: 29518

Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.0	39.0

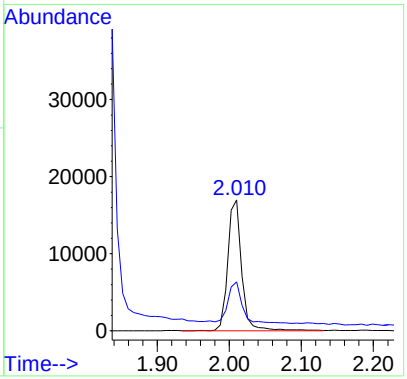


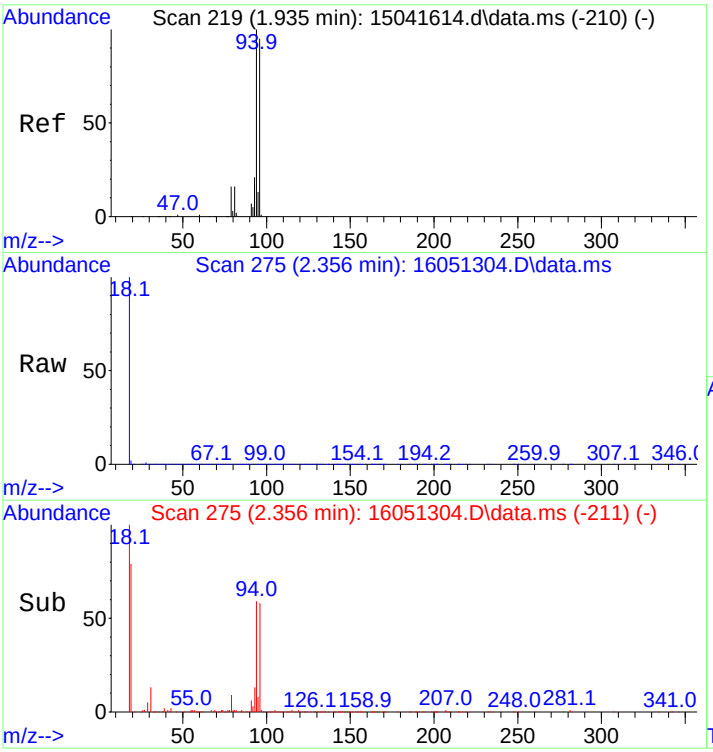


#4
Vinyl Chloride
Concen: 38.20 ng m
RT: 2.010 min Scan# 229
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 62 Resp: 22655

Ion	Ratio	Lower	Upper
62	100		
64	28.5	25.7	38.5

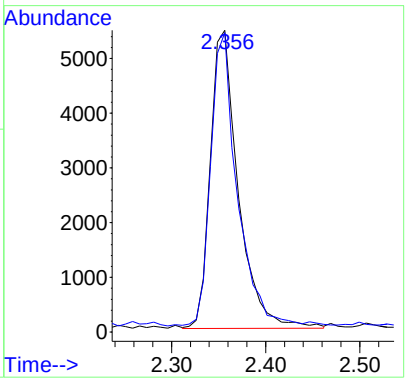


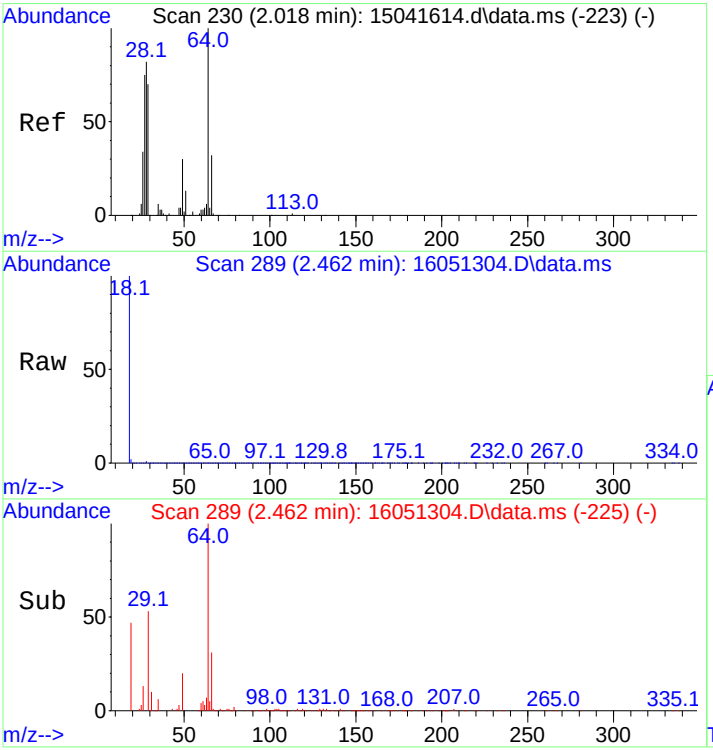


#5
Bromomethane
Concen: 42.57 ng m
RT: 2.356 min Scan# 275
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 94 Resp: 11235

Ion	Ratio	Lower	Upper
94	100		
96	92.8	74.5	111.7

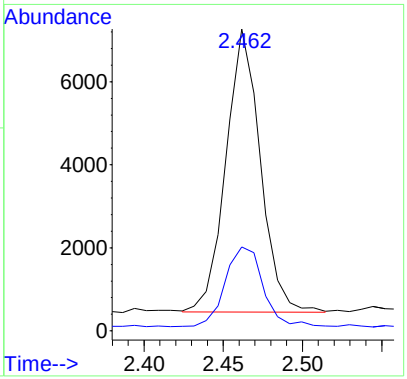


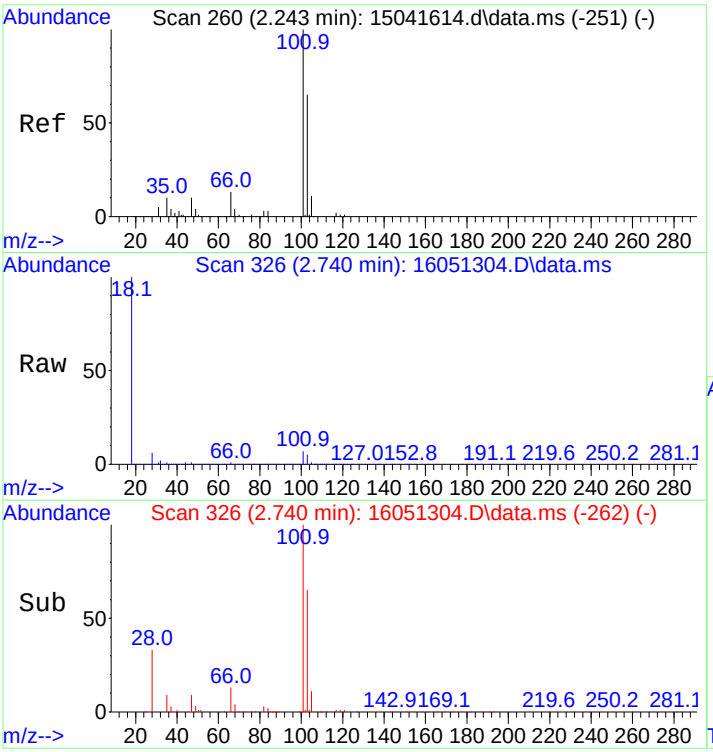


#6
Chloroethane
Concen: 33.22 ng m
RT: 2.462 min Scan# 289
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 64 Resp: 10287

Ion	Ratio	Lower	Upper
64	100		
66	30.4	25.0	37.4

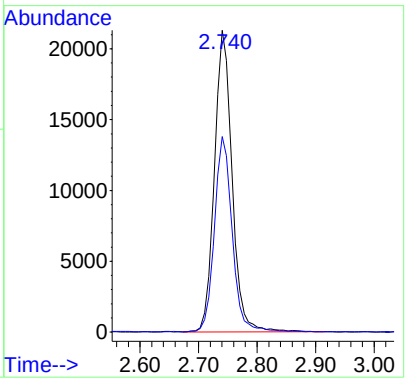


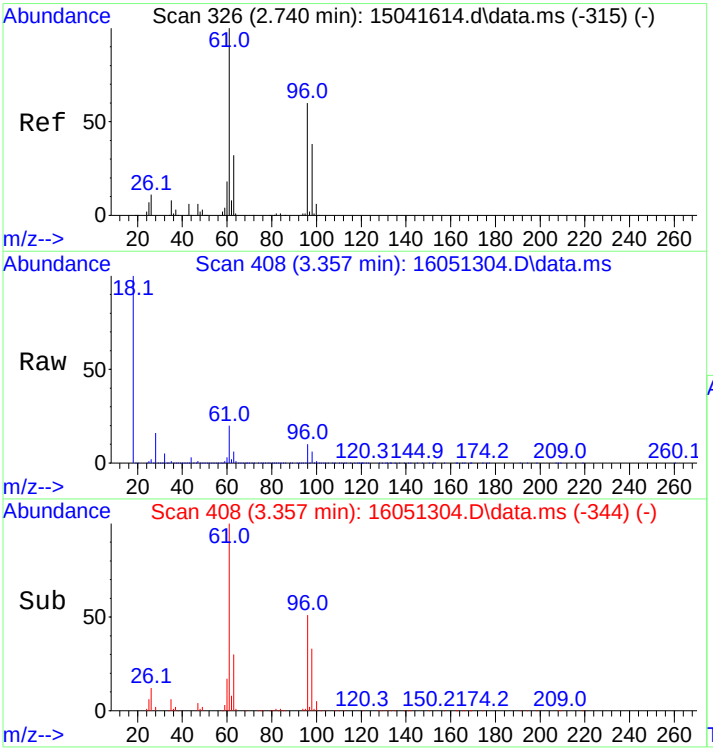


#7
Trichlorofluoromethane
Concen: 50.44 ng
RT: 2.740 min Scan# 326
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:101 Resp: 44665

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.6

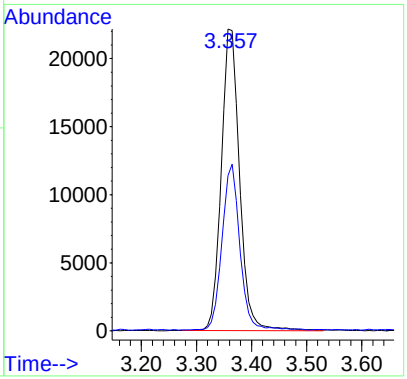


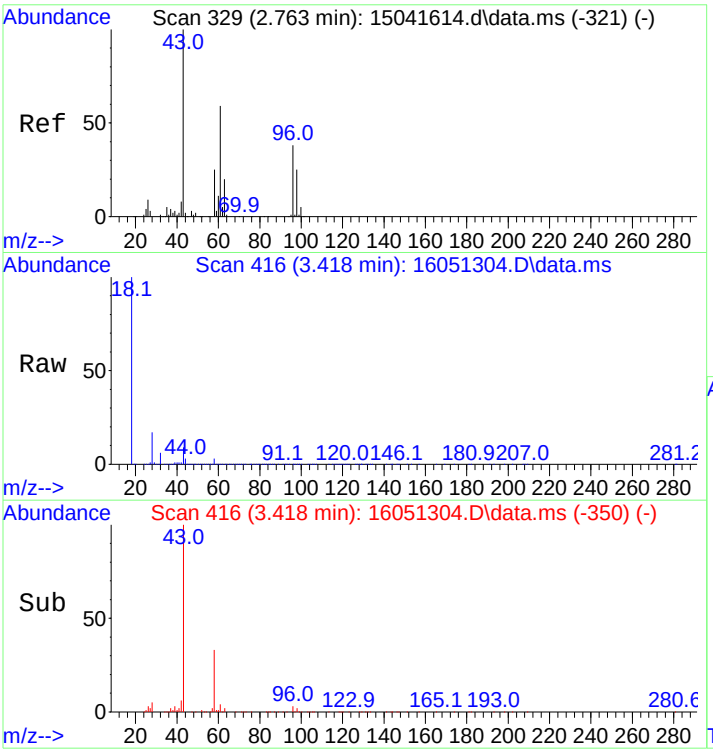


#8
1,1-Dichloroethene
Concen: 47.77 ng
RT: 3.357 min Scan# 408
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 61 Resp: 51026

Ion	Ratio	Lower	Upper
61	100		
96	53.3	44.1	66.1

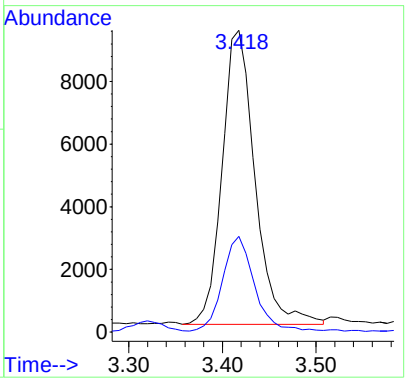


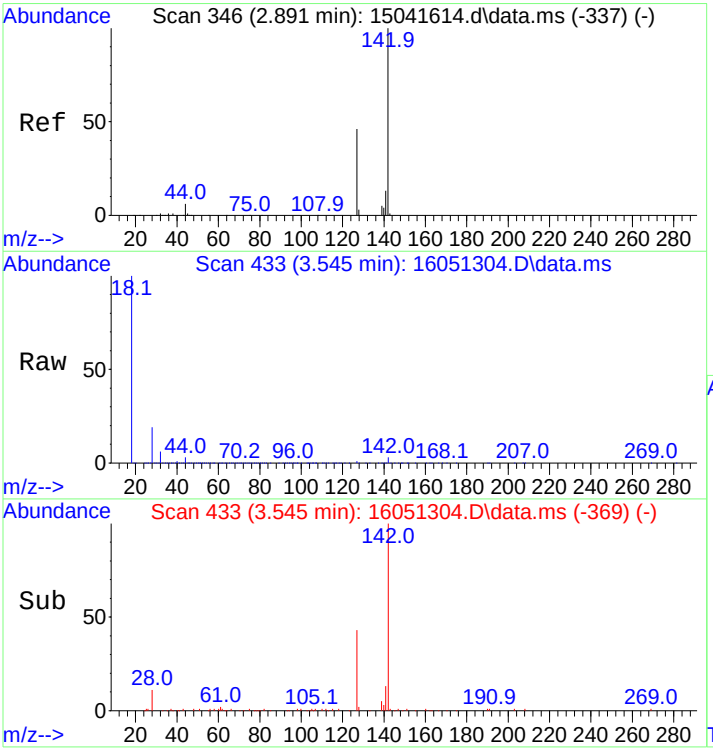


#9
Acetone
Concen: 58.07 ng
RT: 3.418 min Scan# 416
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 22926

Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.7	37.1

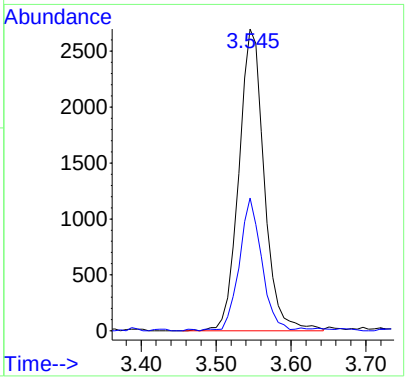


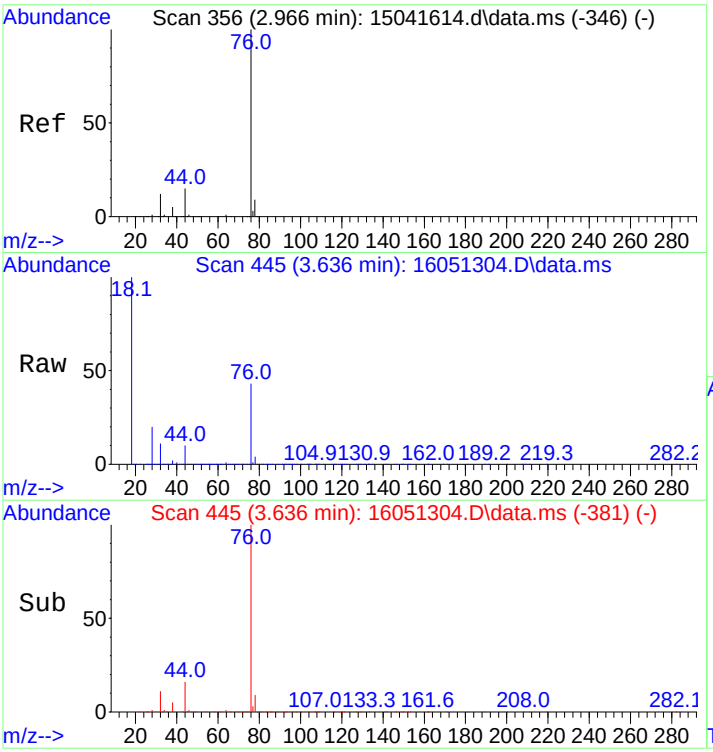


#10
Iodomethane
Concen: 14.96 ng
RT: 3.545 min Scan# 433
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:142 Resp: 6344

Ion	Ratio	Lower	Upper
142	100		
127	39.0	32.8	49.2

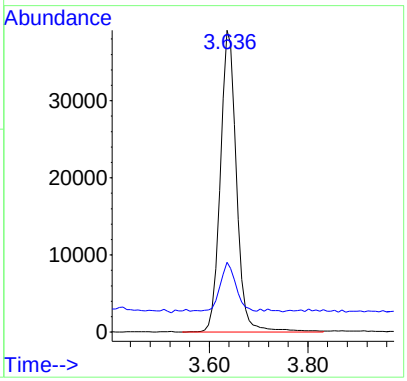


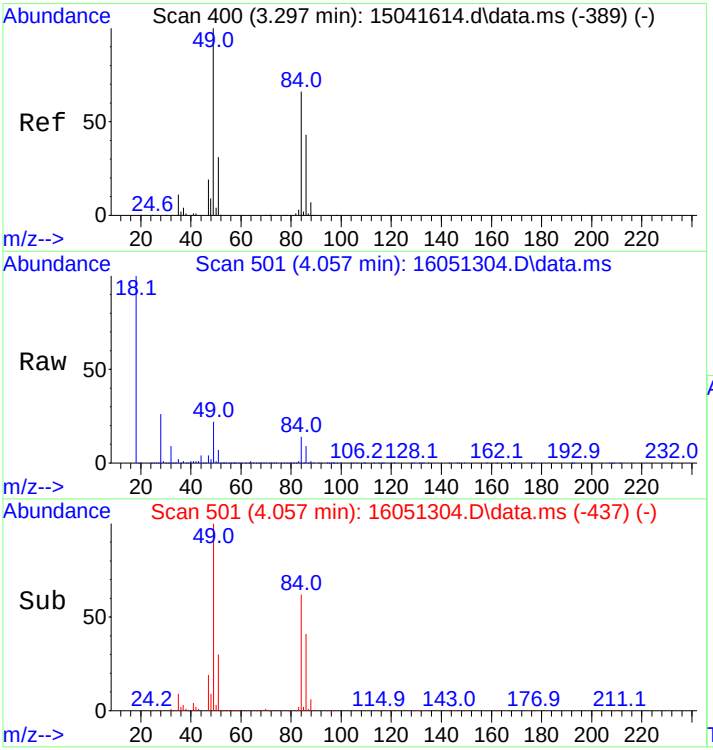


#11
Carbon disulfide
Concen: 53.20 ng
RT: 3.636 min Scan# 445
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 76 Resp: 88941

Ion	Ratio	Lower	Upper
76	100		
44	15.7	12.2	18.4

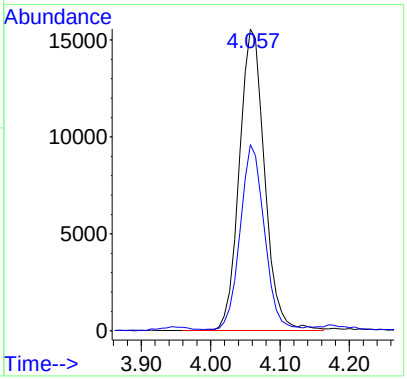


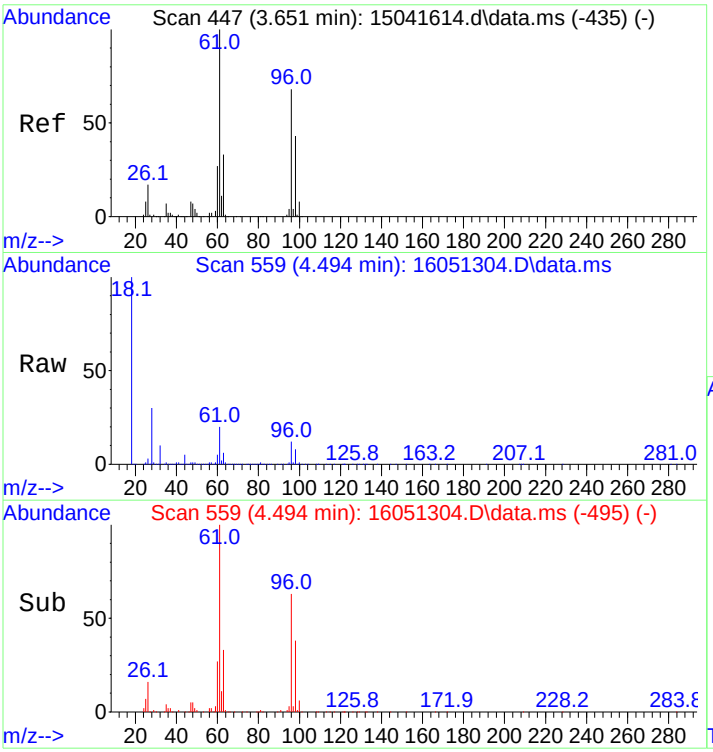


#12
Methylene Chloride
Concen: 53.50 ng
RT: 4.057 min Scan# 501
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 49 Resp: 39445

Ion	Ratio	Lower	Upper
49	100		
84	59.5	48.4	72.6

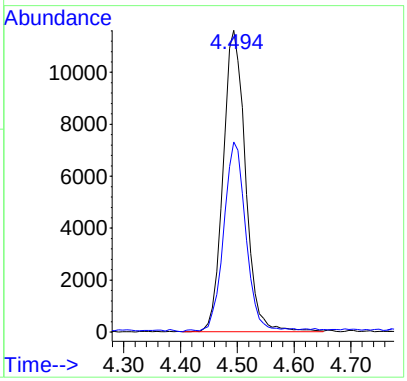


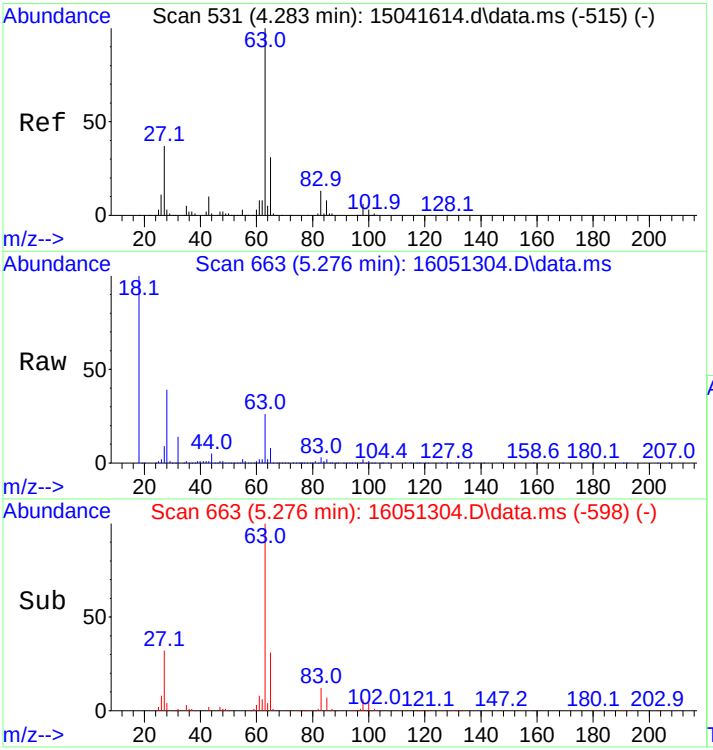


#13
trans,1,2-Dichloroethene
Concen: 44.79 ng
RT: 4.494 min Scan# 559
Delta R.T. -0.015 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 61 Resp: 31756

Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.2	75.4

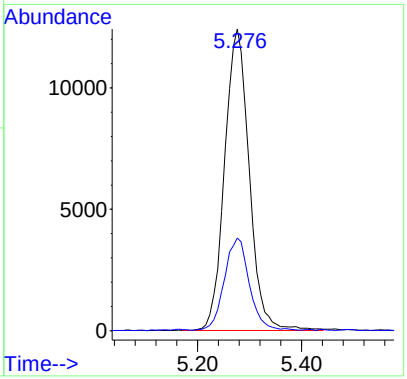


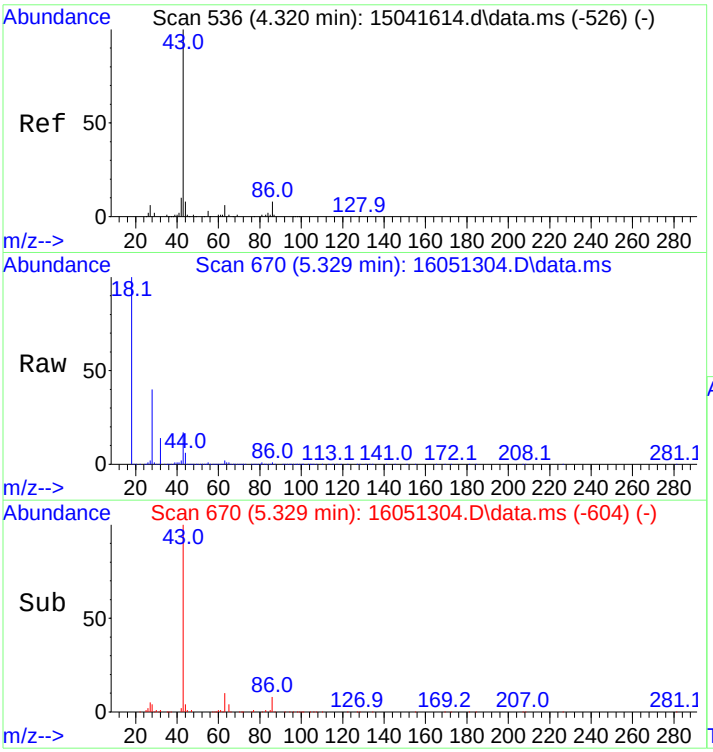


#14
1,1-Dichloroethane
Concen: 46.38 ng
RT: 5.276 min Scan# 663
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 63 Resp: 40707

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.6	37.0

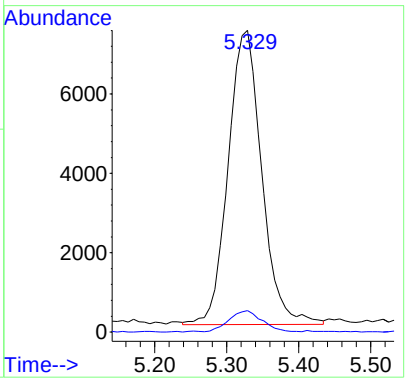


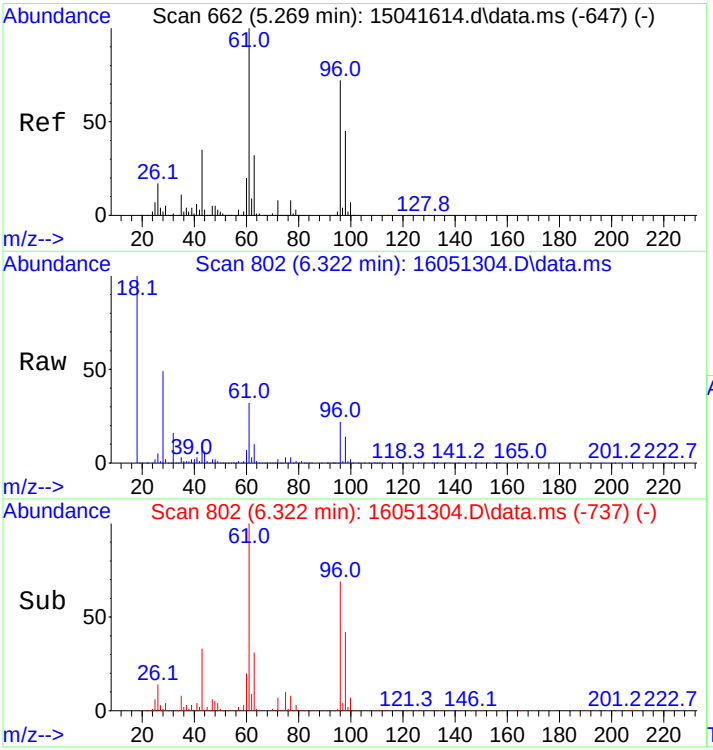


#15
Vinyl Acetate
Concen: 53.87 ng
RT: 5.329 min Scan# 670
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 23989

Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.6	9.8

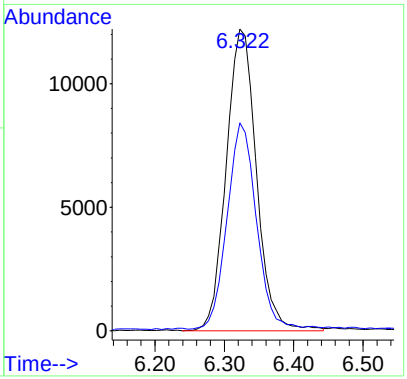


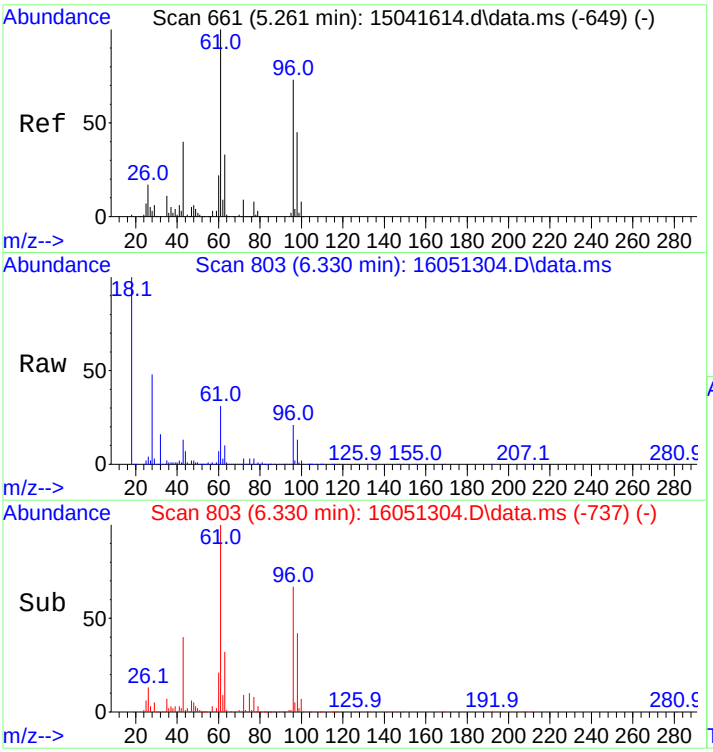


#16
cis,1,2-Dichloroethene
Concen: 45.11 ng
RT: 6.322 min Scan# 802
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 61 Resp: 37107

Ion	Ratio	Lower	Upper
61	100		
96	65.8	54.6	81.8

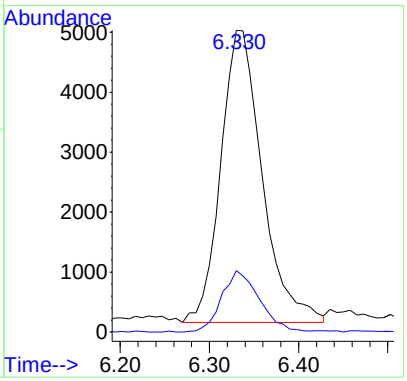


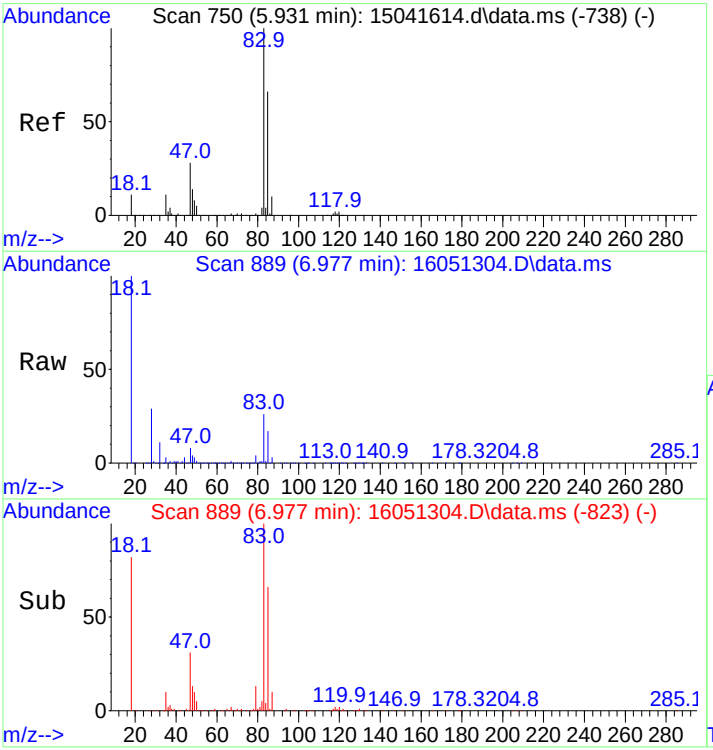


#17
2-Butanone
Concen: 55.67 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 15814

Ion	Ratio	Lower	Upper
43	100		
72	19.4	17.4	26.2

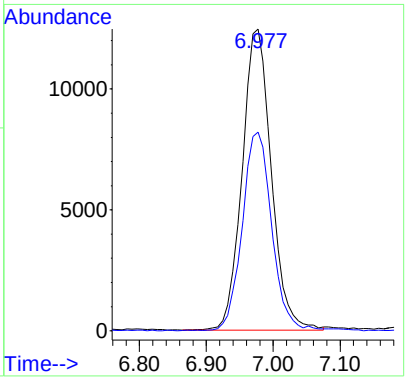


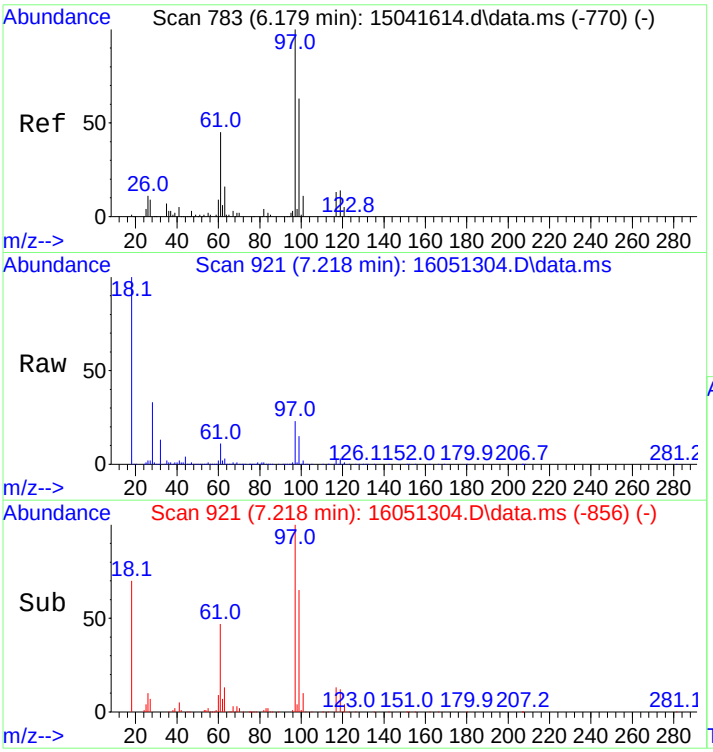


#18
Chloroform
Concen: 45.88 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 37813

Ion	Ratio	Lower	Upper
83	100		
85	66.8	53.9	80.9

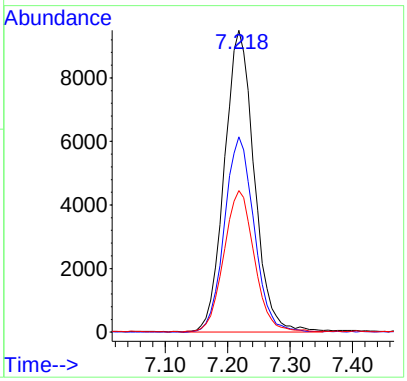


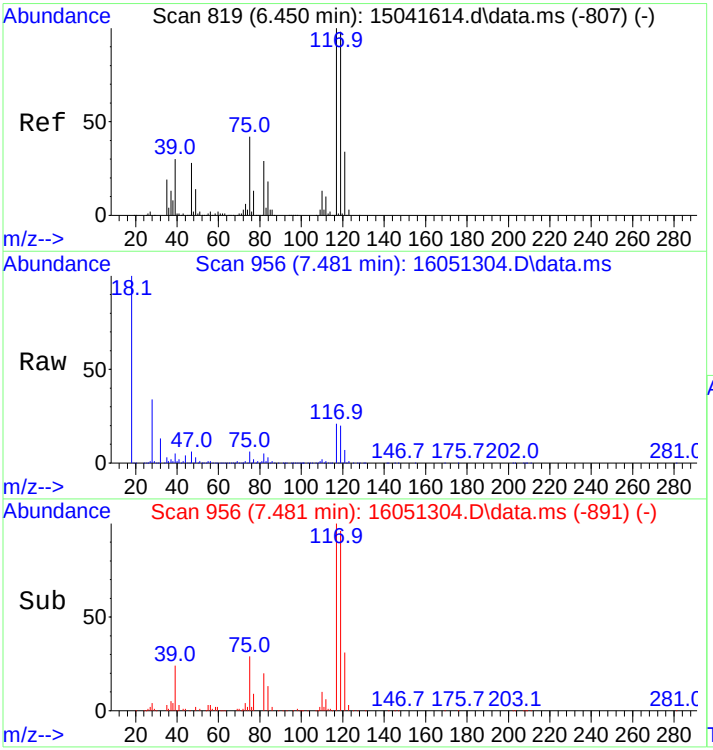


#19
1,1,1-Trichloroethane
Concen: 67.20 ng
RT: 7.218 min Scan# 921
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 97 Resp: 31574

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.3	76.9
61	48.1	37.6	56.4

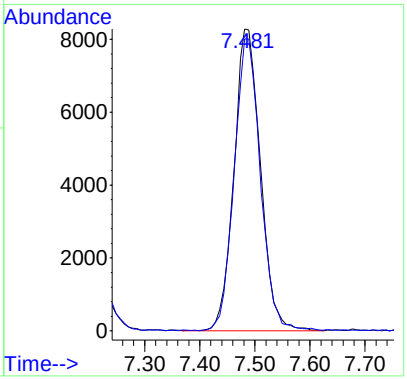


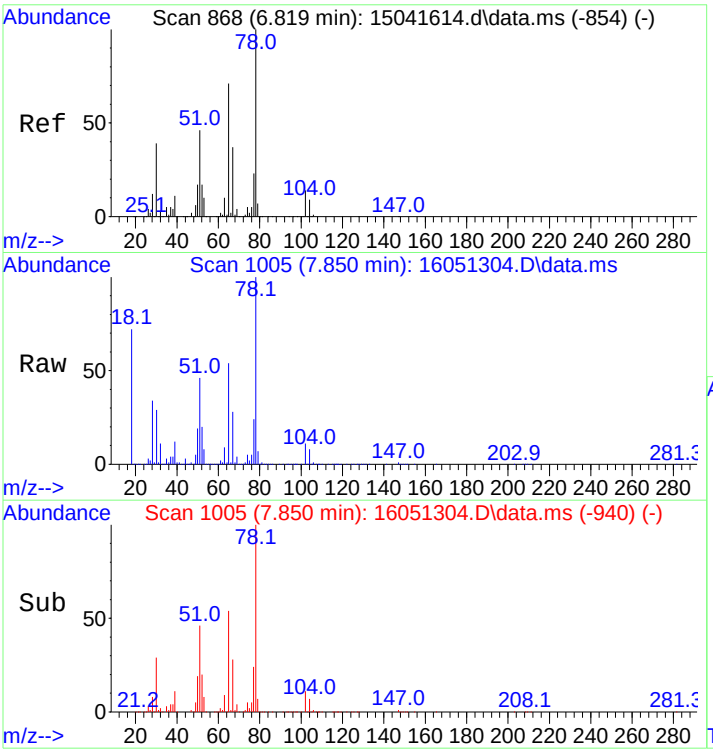


#22
Carbon Tetrachloride
Concen: 48.43 ng
RT: 7.481 min Scan# 956
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:117 Resp: 27611

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.0	115.4

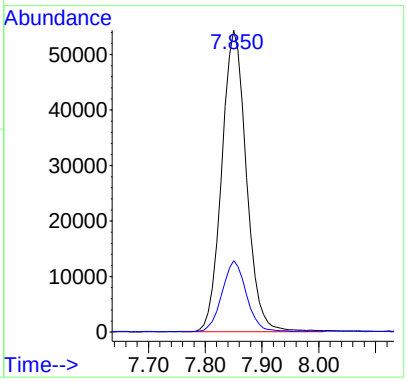


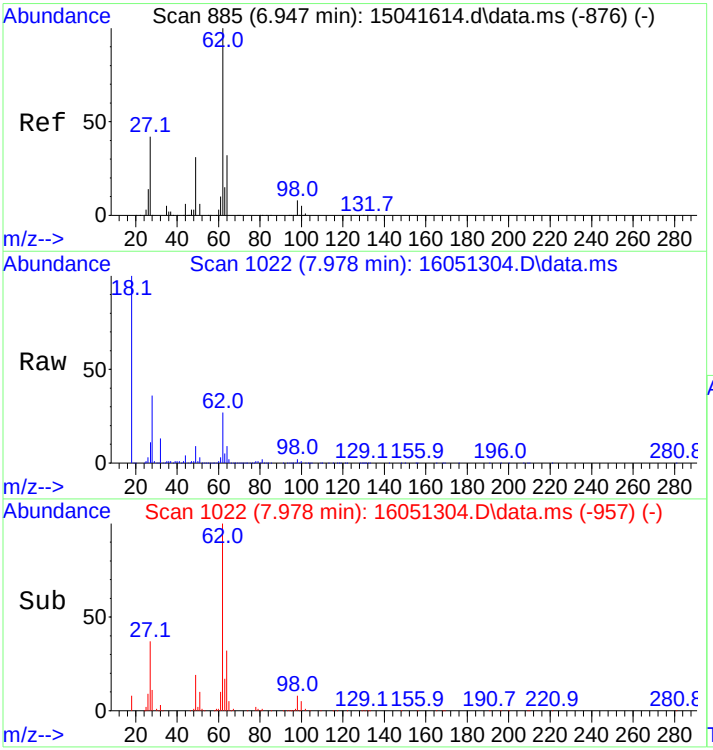


#23
Benzene
Concen: 75.93 ng
RT: 7.850 min Scan# 1005
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 78 Resp: 164177

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.3	27.5

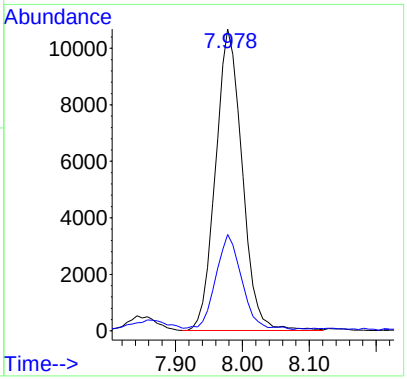


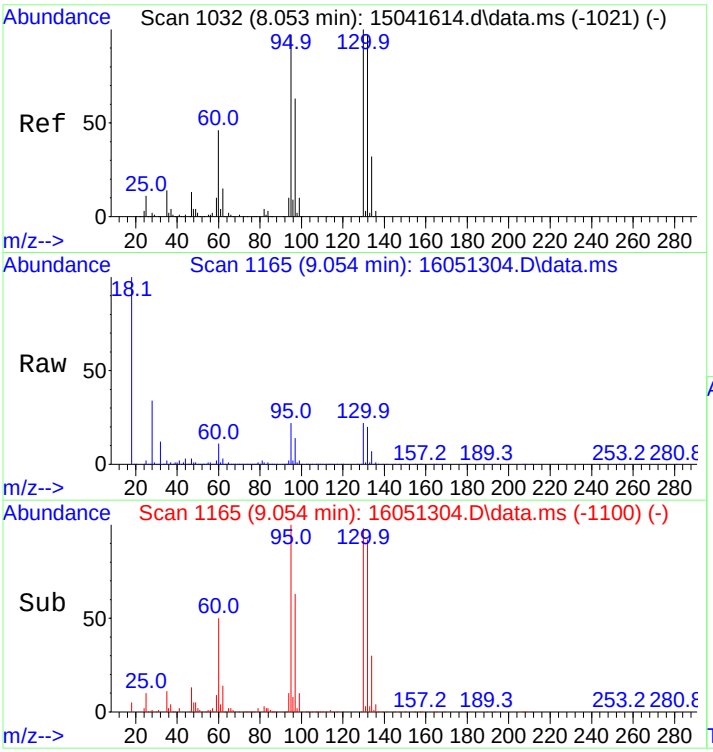


#24
1,2-Dichloroethane
Concen: 47.71 ng
RT: 7.978 min Scan# 1022
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 62 Resp: 29489

Ion	Ratio	Lower	Upper
62	100		
64	30.9	24.8	37.2

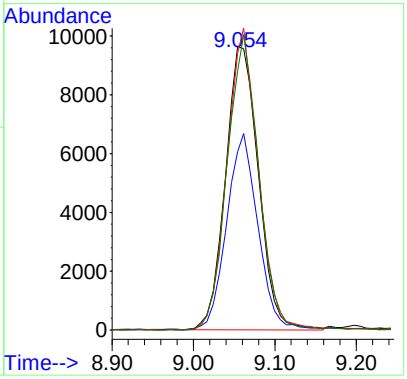


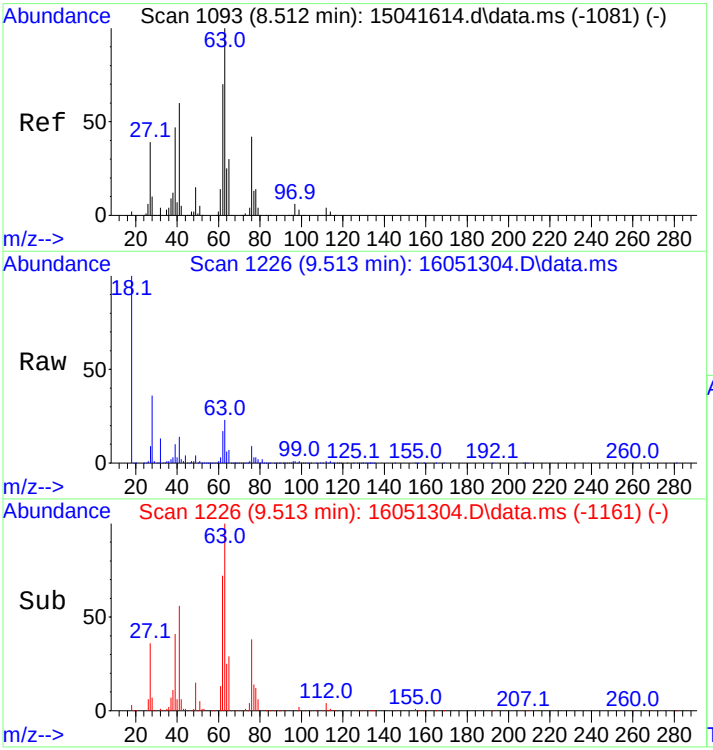


#25
Trichloroethene
Concen: 56.06 ng
RT: 9.054 min Scan# 1165
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 95 Resp: 27153

Ion	Ratio	Lower	Upper
95	100		
97	65.2	51.8	77.8
130	102.3	81.9	122.9
132	100.1	81.2	121.8

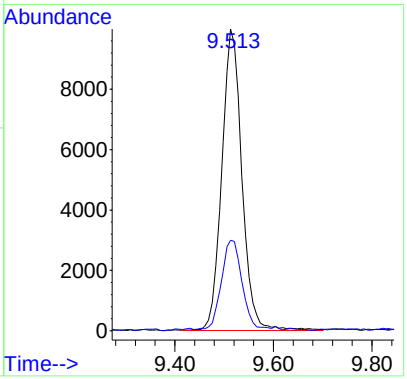


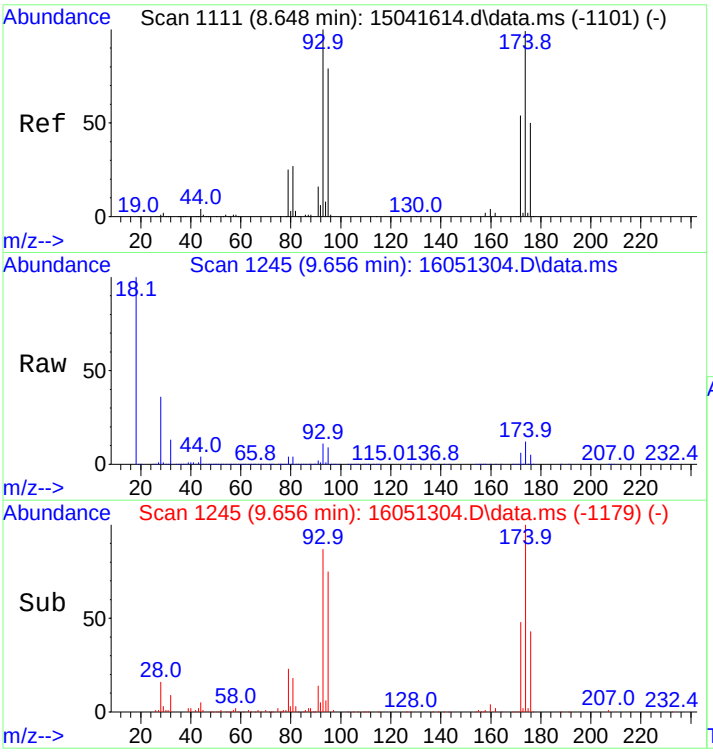


#26
1,2-Dichloropropane
Concen: 57.15 ng
RT: 9.513 min Scan# 1226
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 63 Resp: 28263

Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.2	36.2

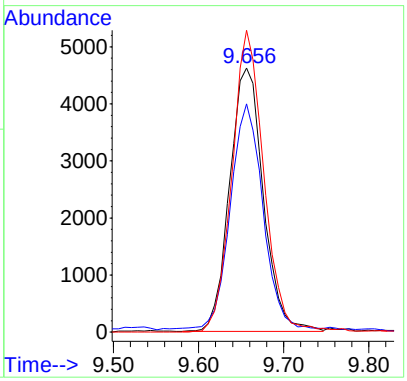


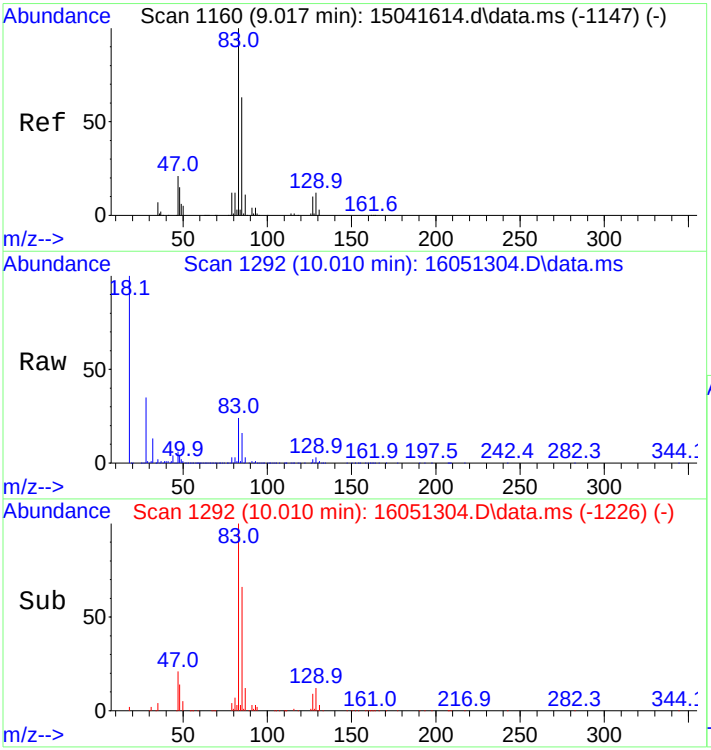


#27
Dibromomethane
Concen: 45.84 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 93 Resp: 12722

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.5	98.3
174	108.6	85.5	128.3

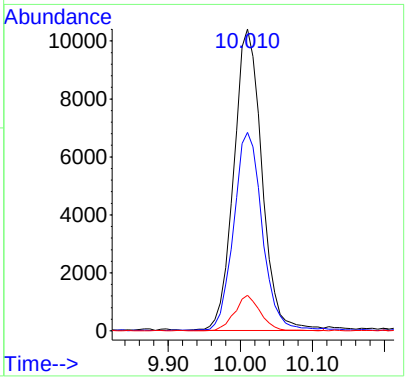


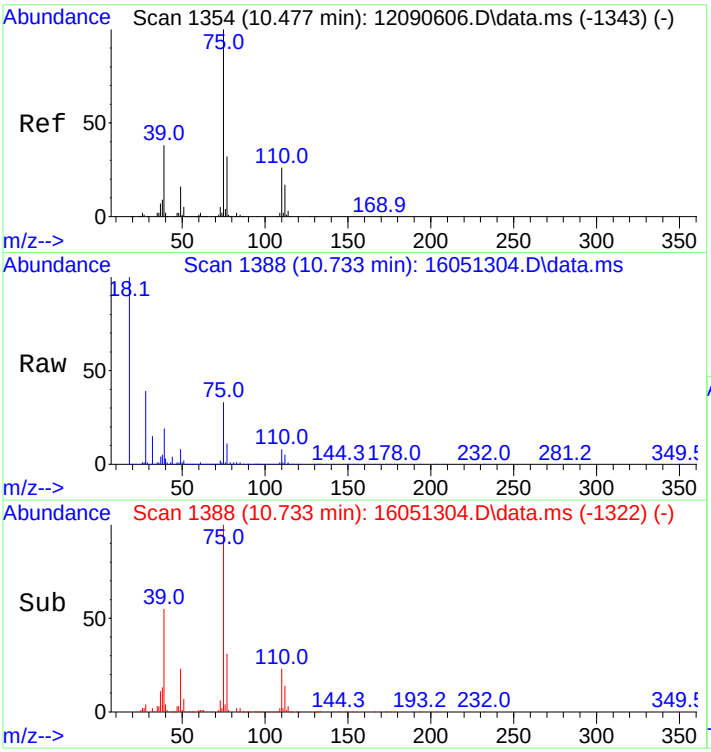


#28
Bromodichloromethane
Concen: 52.16 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 28203

Ion	Ratio	Lower	Upper
83	100		
85	66.5	52.5	78.7
87	10.8	8.3	12.5

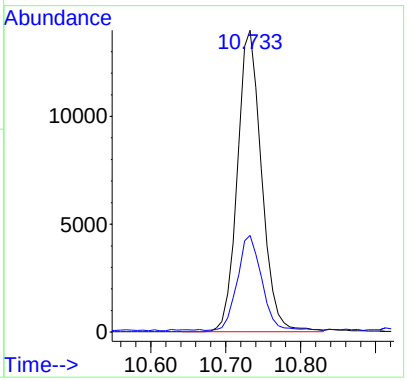


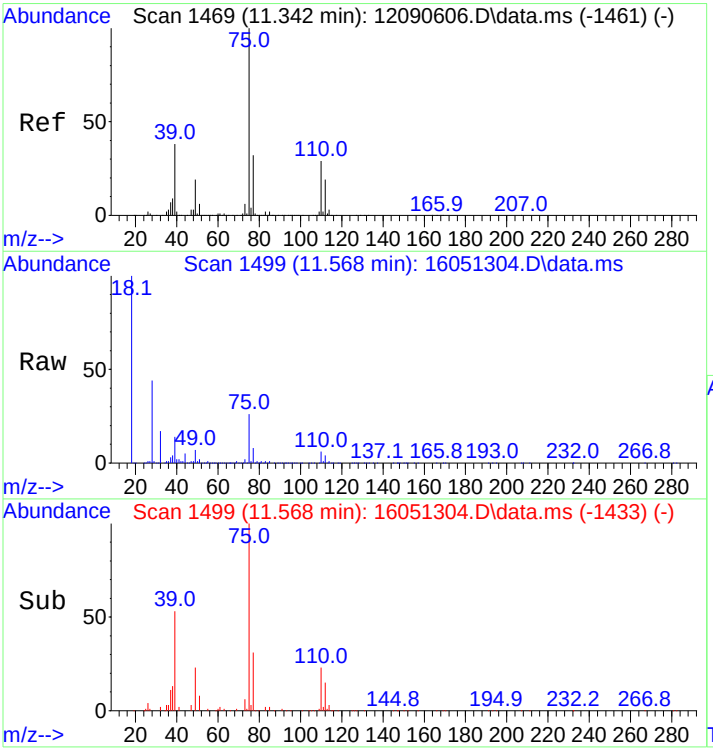


#29
cis,1,3-Dichloropropene
Concen: 56.72 ng
RT: 10.733 min Scan# 1388
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 31409

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4

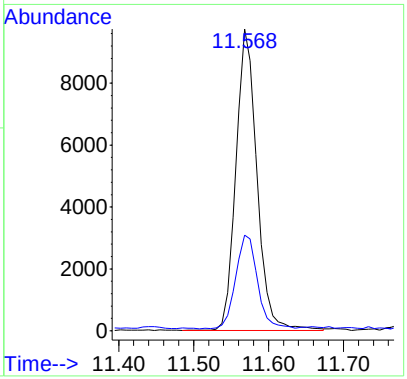


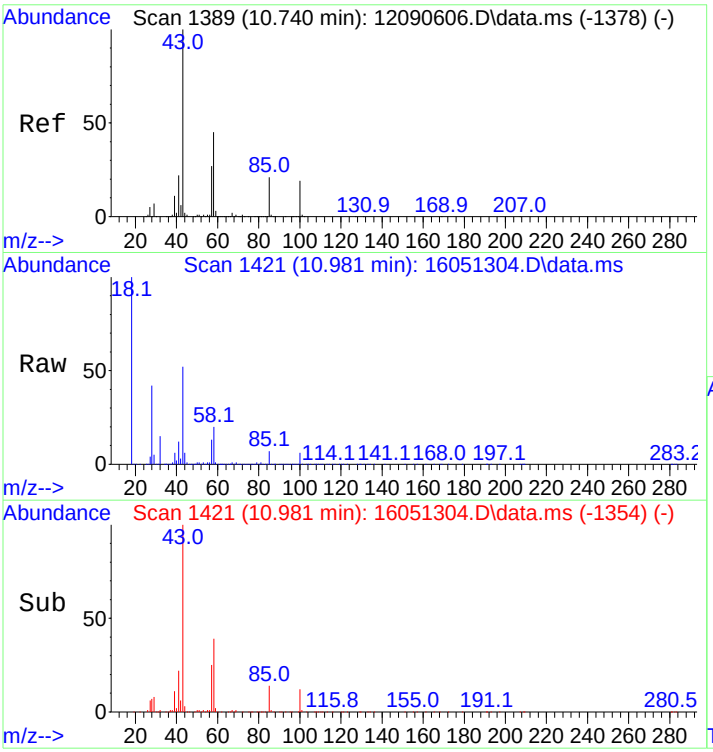


#30
trans,1,3-Dichloropropene
Concen: 50.51 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 18984

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.0	39.0

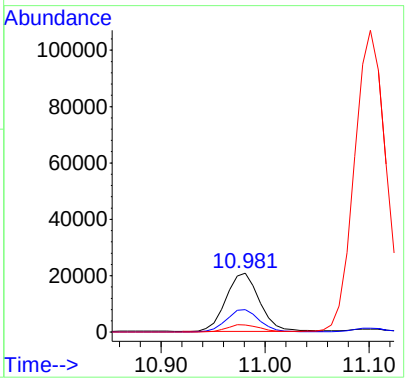


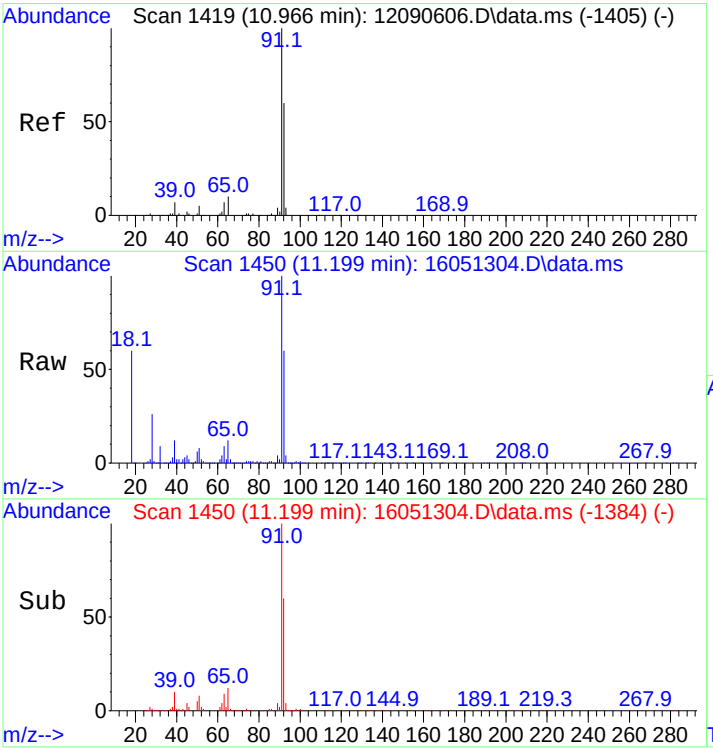


#31
4-Methyl-2-Pentanone
Concen: 63.62 ng
RT: 10.981 min Scan# 1421
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 46387

Ion	Ratio	Lower	Upper
43	100		
58	38.5	31.3	46.9
100	12.9	10.2	15.2

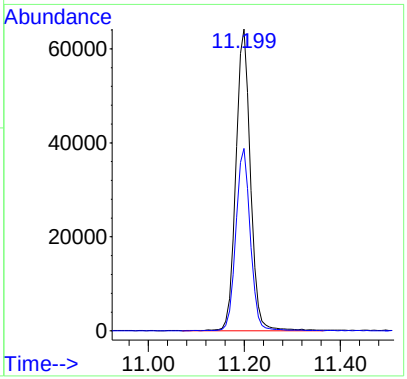


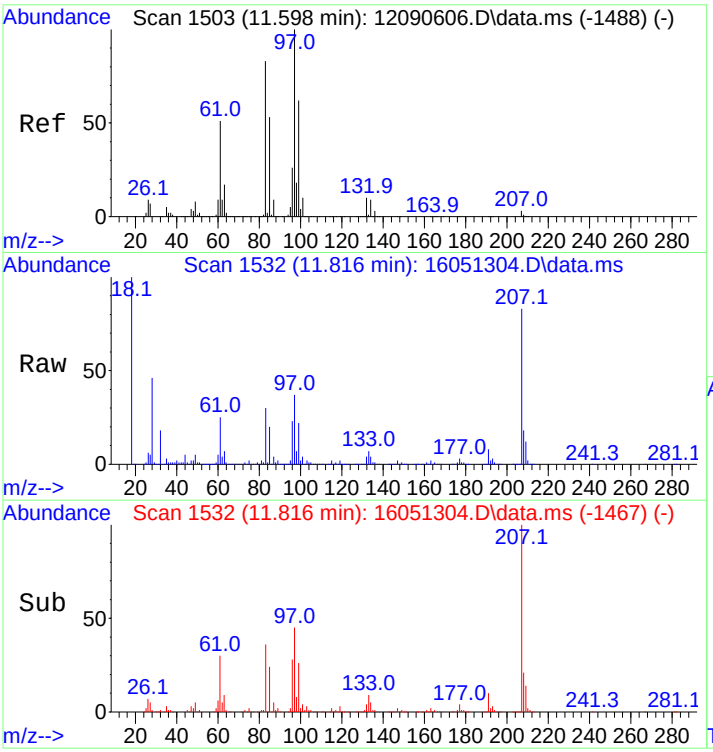


#33
Toluene
Concen: 59.31 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 135218

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.6	73.0

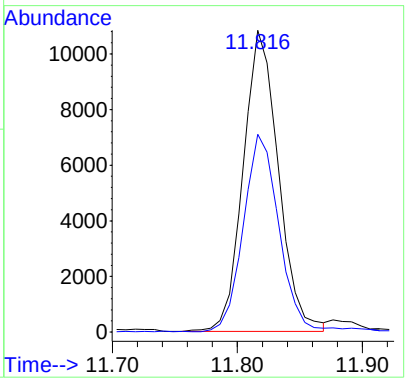


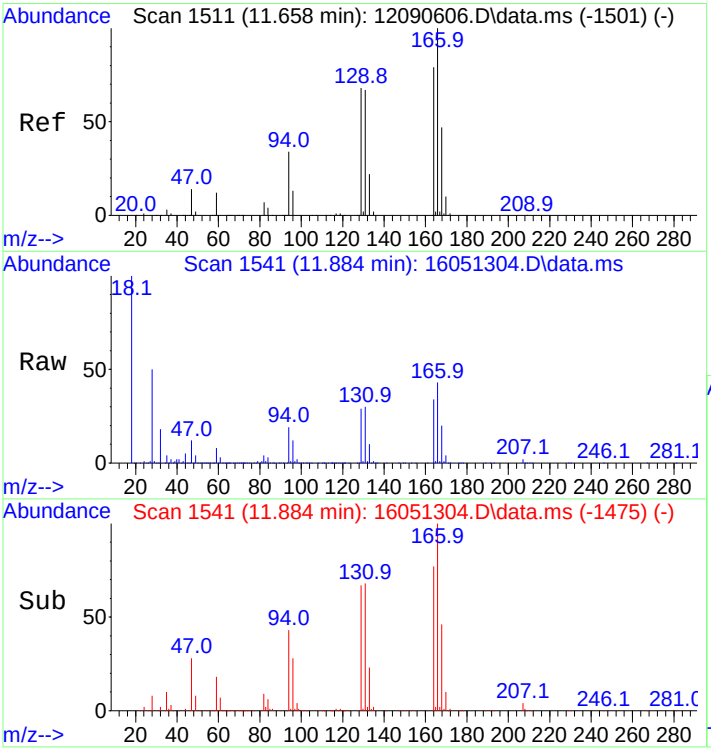


#34
1,1,2-Trichloroethane
Concen: 53.98 ng
RT: 11.816 min Scan# 1532
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 21220

Ion	Ratio	Lower	Upper
83	100		
85	66.8	54.7	82.1

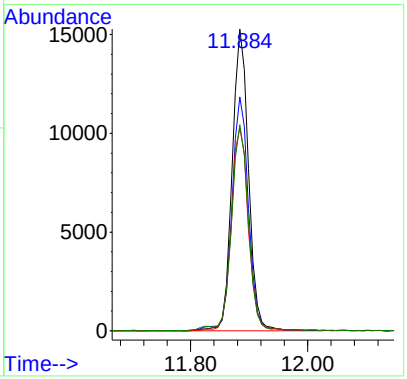


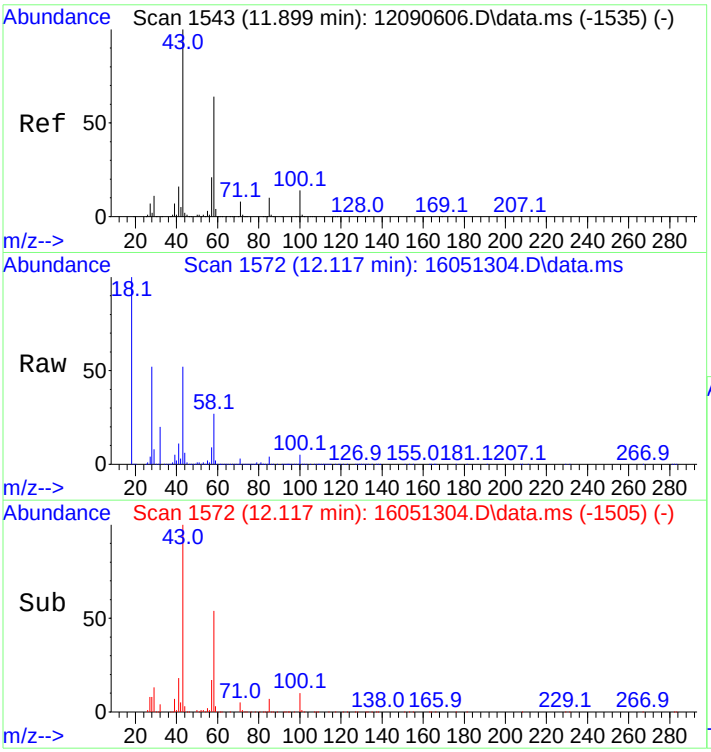


#35
Tetrachloroethene
Concen: 49.45 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:166 Resp: 29564

Ion	Ratio	Lower	Upper
166	100		
164	79.6	63.2	94.8
129	70.3	55.5	83.3
131	70.6	55.2	82.8

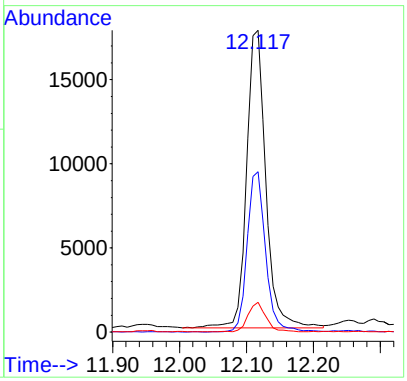


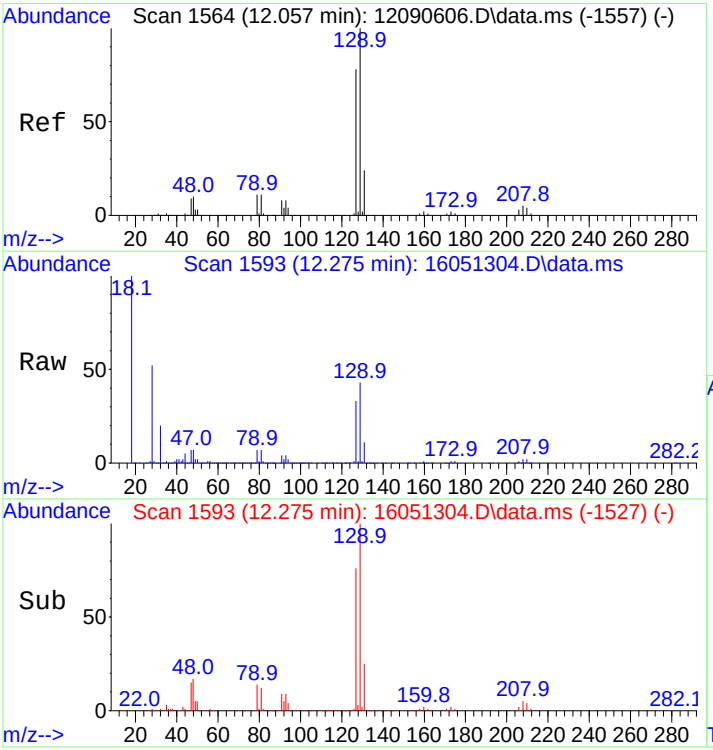


#36
2-Hexanone
Concen: 61.01 ng
RT: 12.117 min Scan# 1572
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 43 Resp: 35488

Ion	Ratio	Lower	Upper
43	100		
58	51.7	43.6	65.4
100	9.3	7.8	11.8

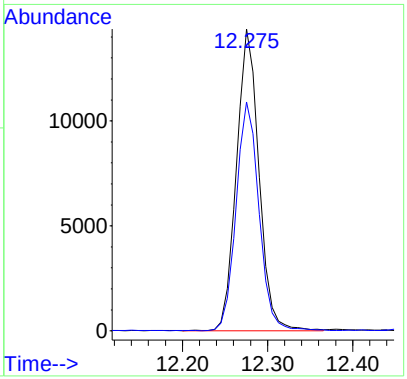


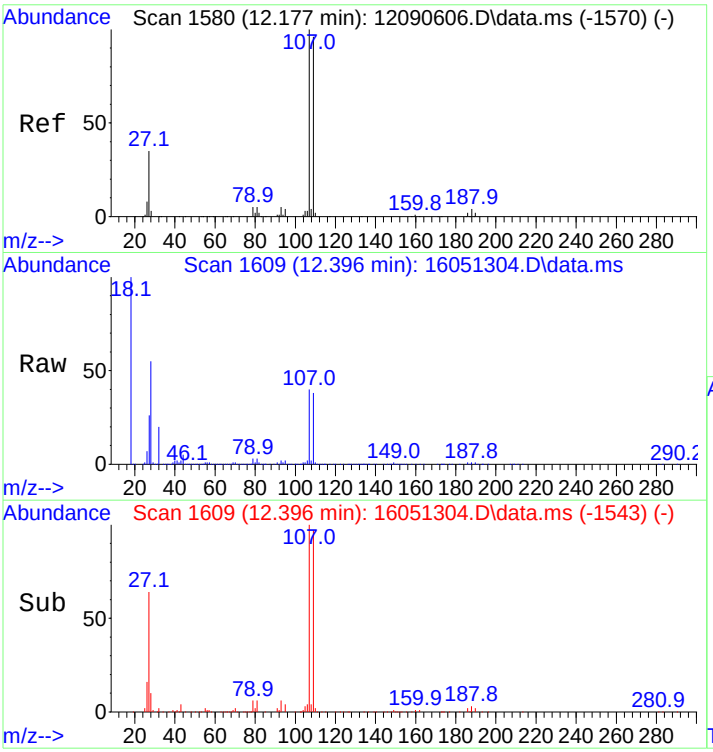


#37
Chlorodibromomethane
Concen: 49.53 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:129 Resp: 26498

Ion	Ratio	Lower	Upper
129	100		
127	77.1	62.3	93.5

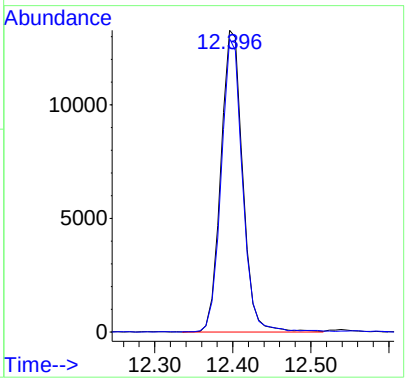


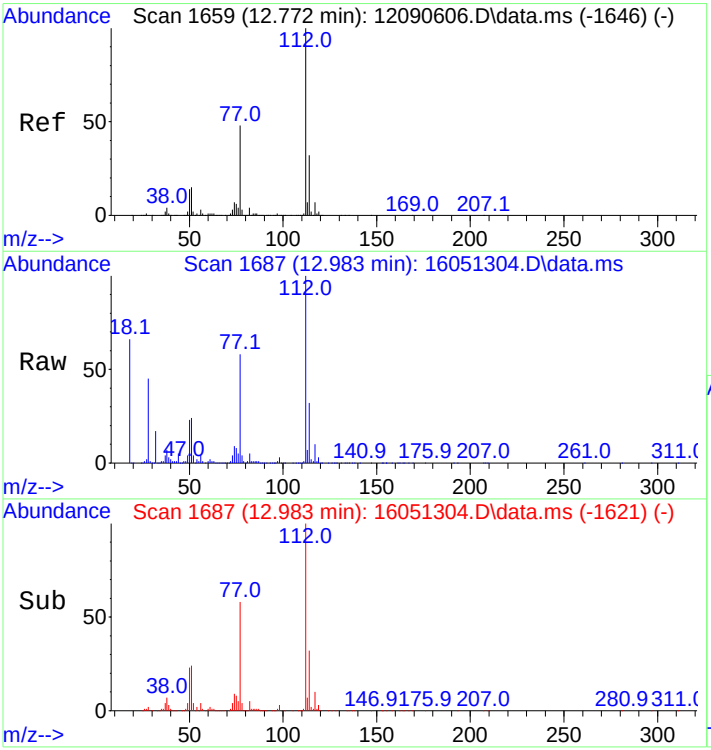


#38
Ethylene Dibromide
Concen: 53.04 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:107 Resp: 25805

Ion	Ratio	Lower	Upper
107	100		
109	95.0	74.3	111.5

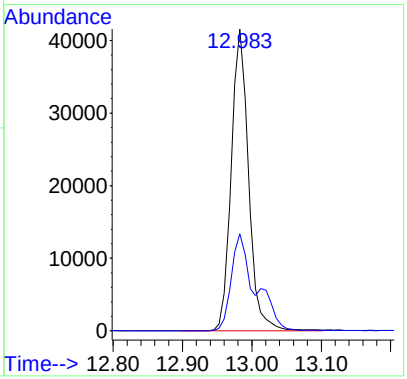


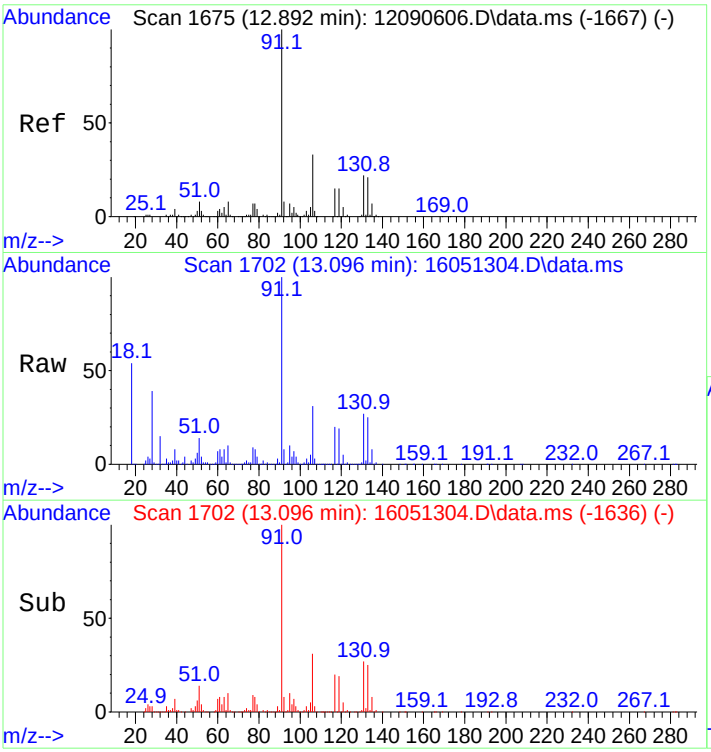


#39
Chlorobenzene
Concen: 51.75 ng
RT: 12.983 min Scan# 1687
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:112 Resp: 72230

Ion	Ratio	Lower	Upper
112	100		
114	44.7	27.5	41.3#

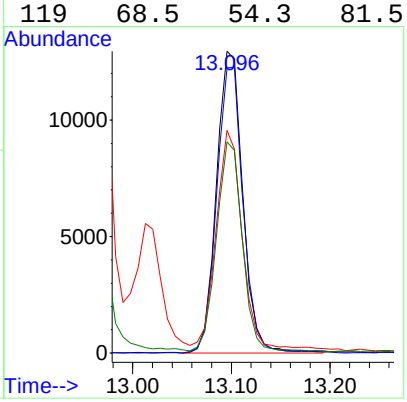


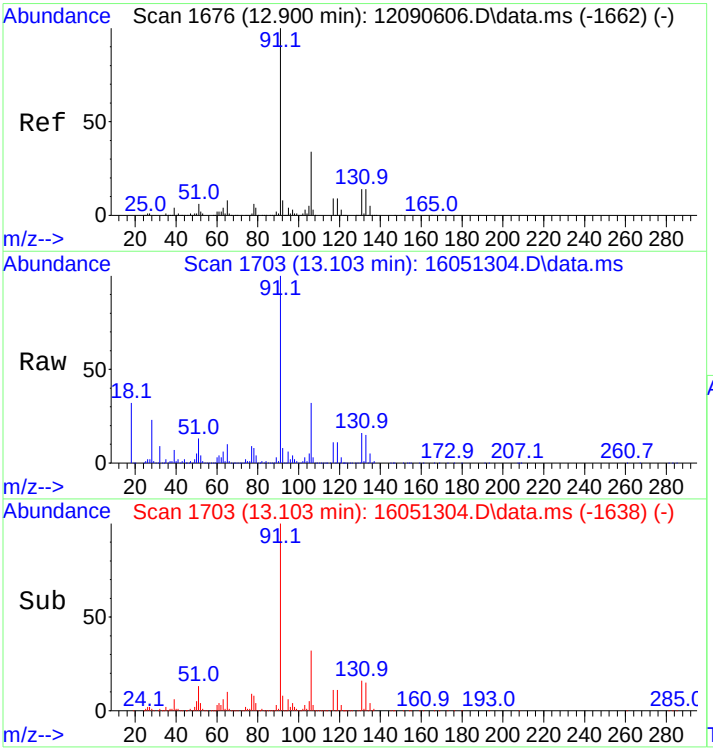


#40
1,1,1,2-Tetrachloroethane
Concen: 48.49 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:131 Resp: 24056

Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.8	116.6
117	74.5	57.1	85.7
119	68.5	54.3	81.5

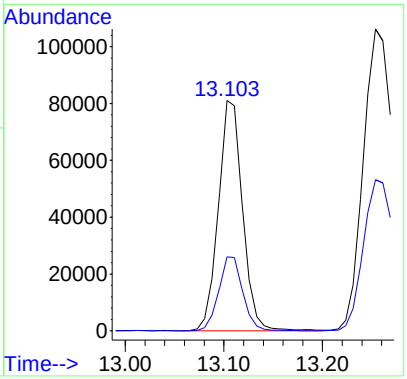


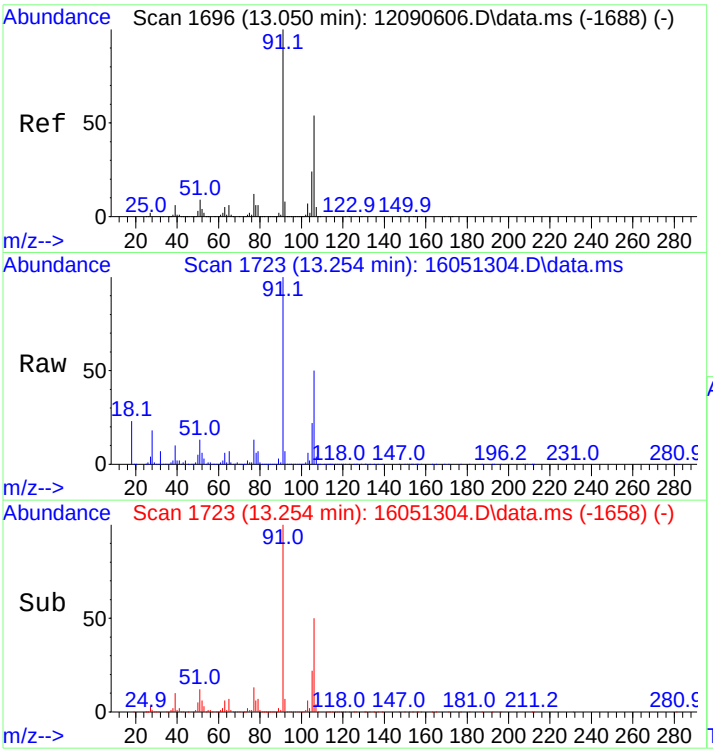


#41
Ethylbenzene
Concen: 53.44 ng
RT: 13.103 min Scan# 1703
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 138082

Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.5	38.3

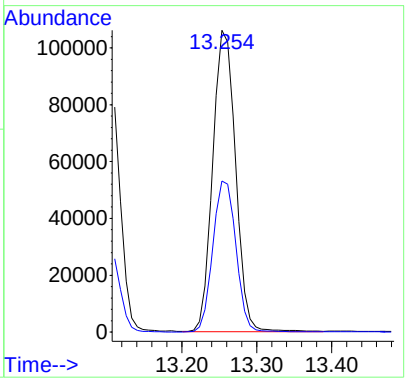


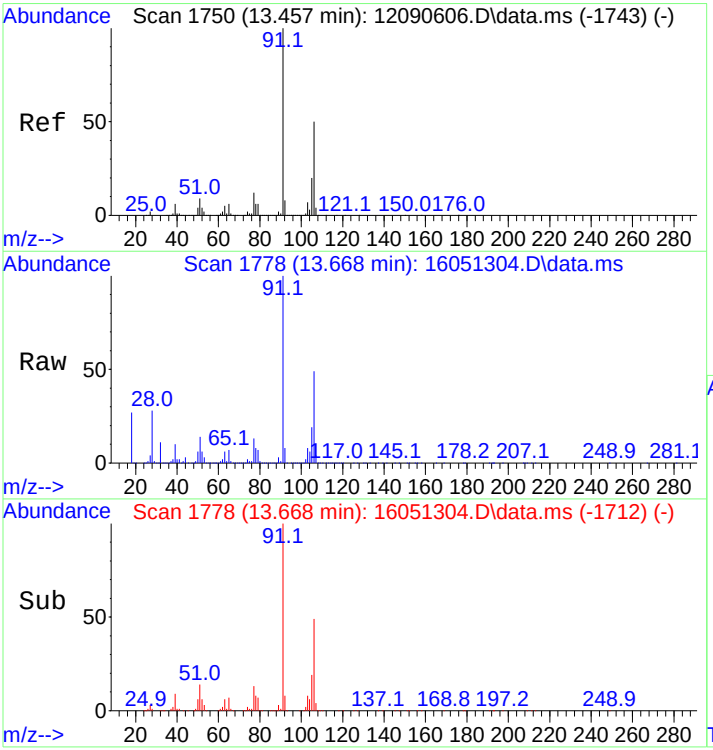


#42
M&P-Xylene
Concen: 102.49 ng
RT: 13.254 min Scan# 1723
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 224893

Ion	Ratio	Lower	Upper
91	100		
106	50.8	40.4	60.6

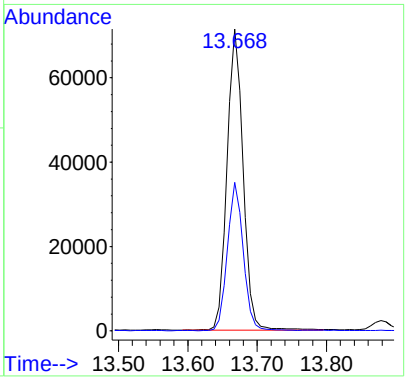


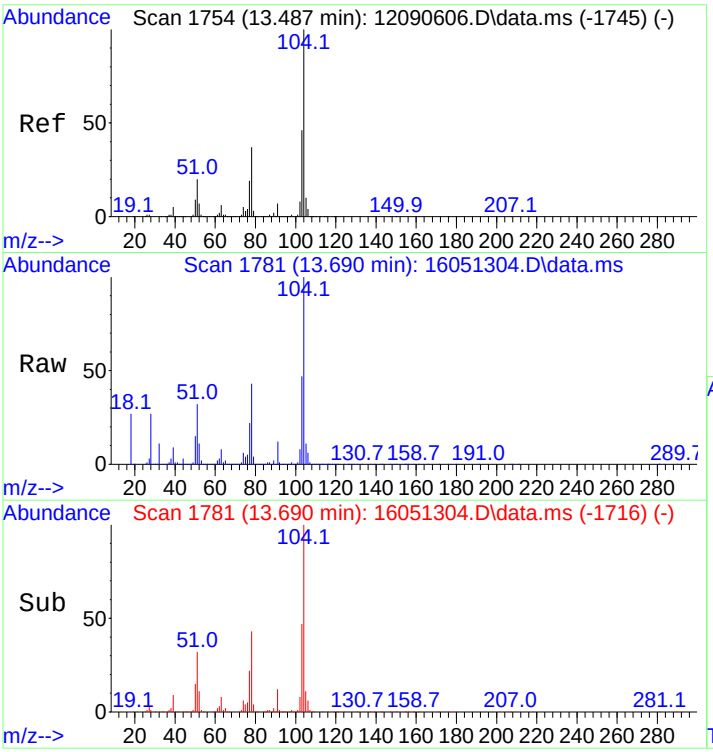


#43
O-Xylene
Concen: 50.58 ng
RT: 13.668 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 114995

Ion	Ratio	Lower	Upper
91	100		
106	48.5	38.2	57.2

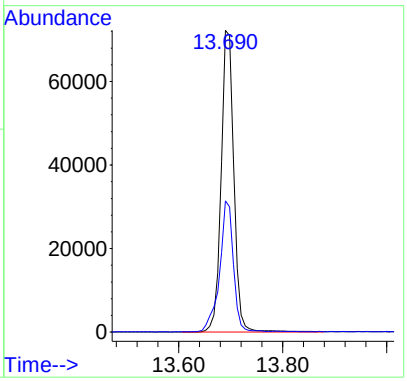


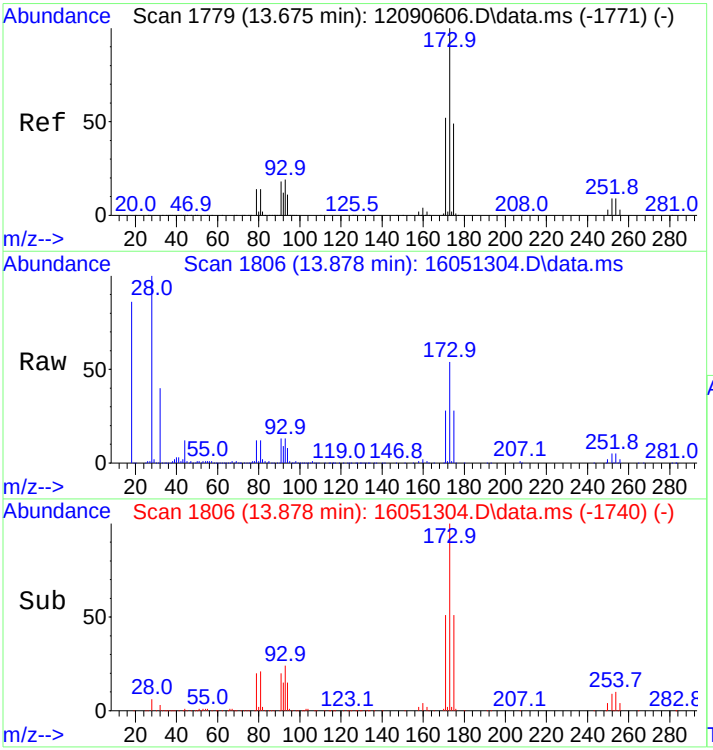


#44
Styrene
Concen: 63.05 ng
RT: 13.690 min Scan# 1781
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:104 Resp: 122543

Ion	Ratio	Lower	Upper
104	100		
78	46.9	39.8	59.6

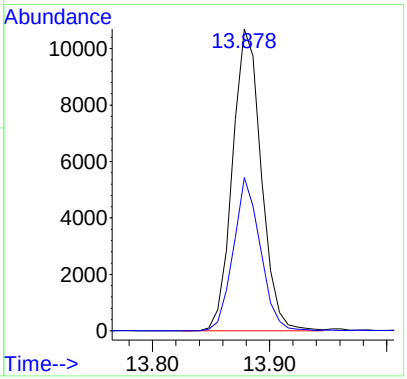


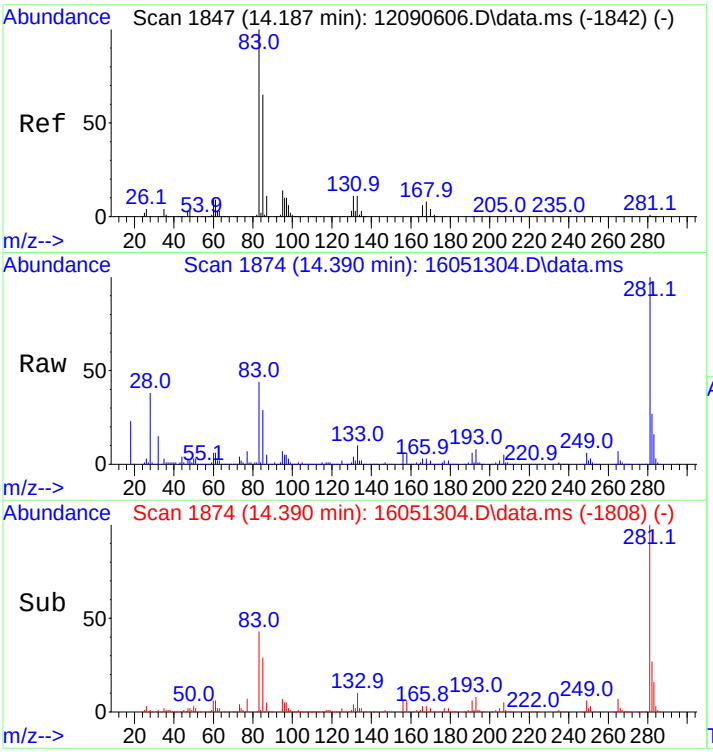


#45
Bromoform
Concen: 43.31 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:173 Resp: 18193

Ion	Ratio	Lower	Upper
173	100		
175	47.7	38.5	57.7

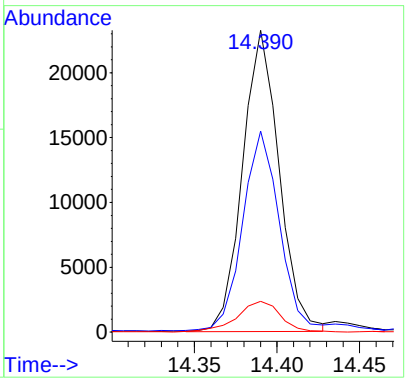


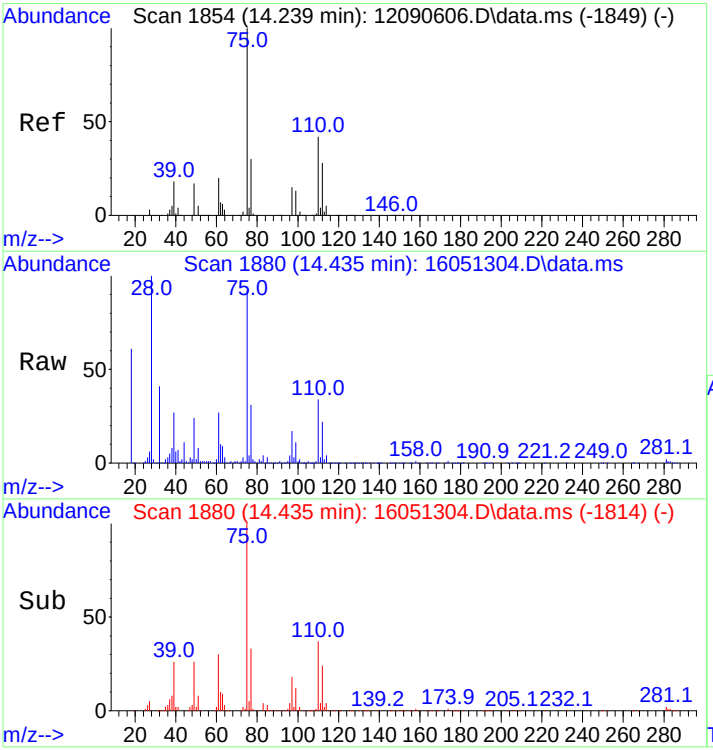


#46
1,1,2,2-Tetrachloroethane
Concen: 52.84 ng m
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 83 Resp: 35935

Ion	Ratio	Lower	Upper
83	100		
85	66.3	53.2	79.8
131	12.1	9.0	13.6

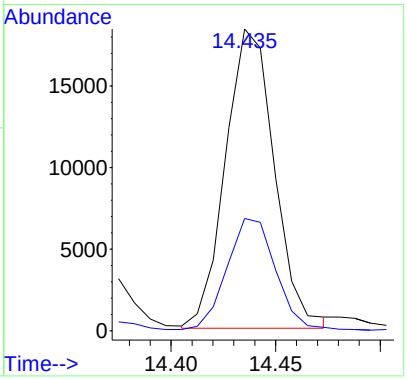


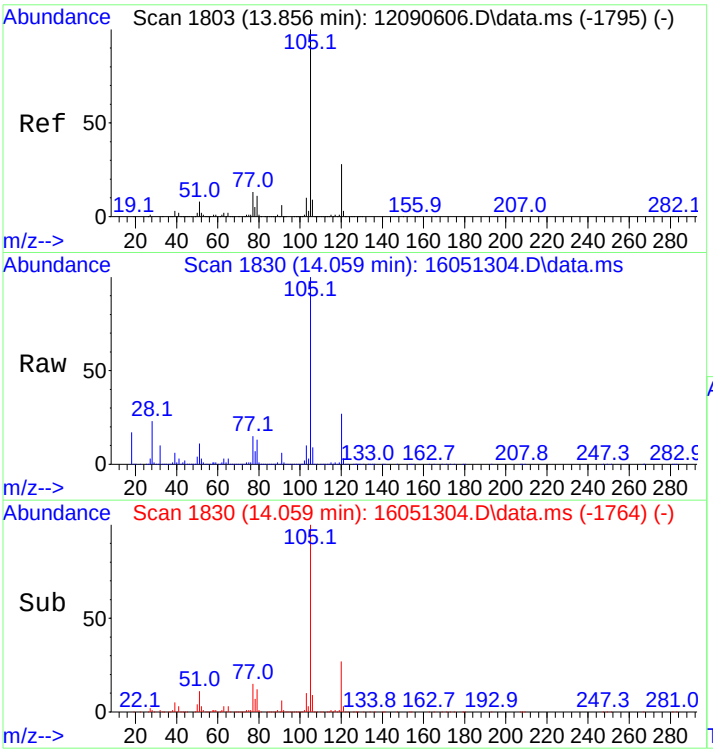


#47
1,2,3-Trichloropropane
Concen: 52.66 ng m
RT: 14.435 min Scan# 1880
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 29943

Ion	Ratio	Lower	Upper
75	100		
110	36.8	30.3	45.5

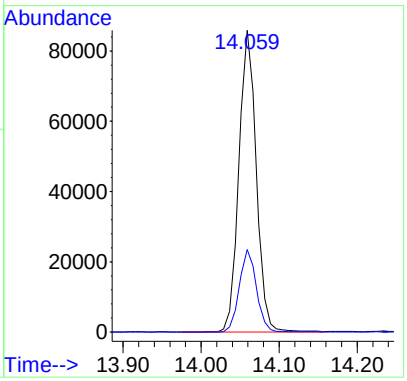


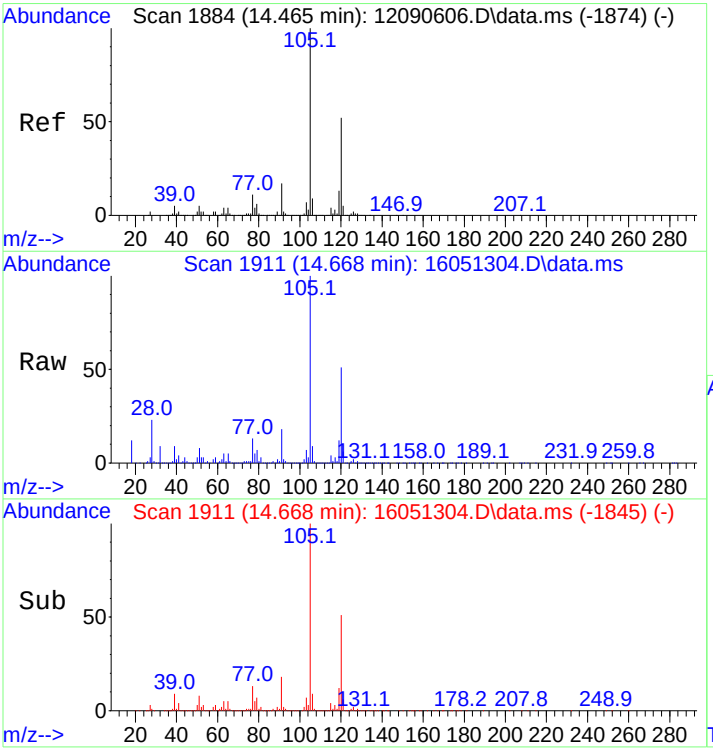


#51
Isopropylbenzene
Concen: 50.31 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 133145

Ion	Ratio	Lower	Upper
105	100		
120	27.1	21.4	32.2

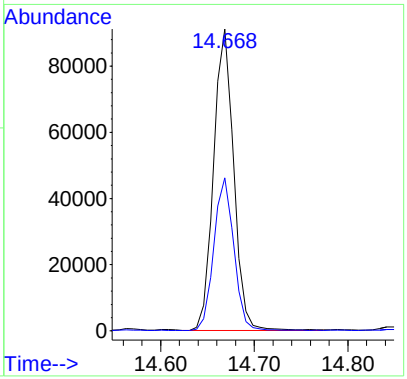


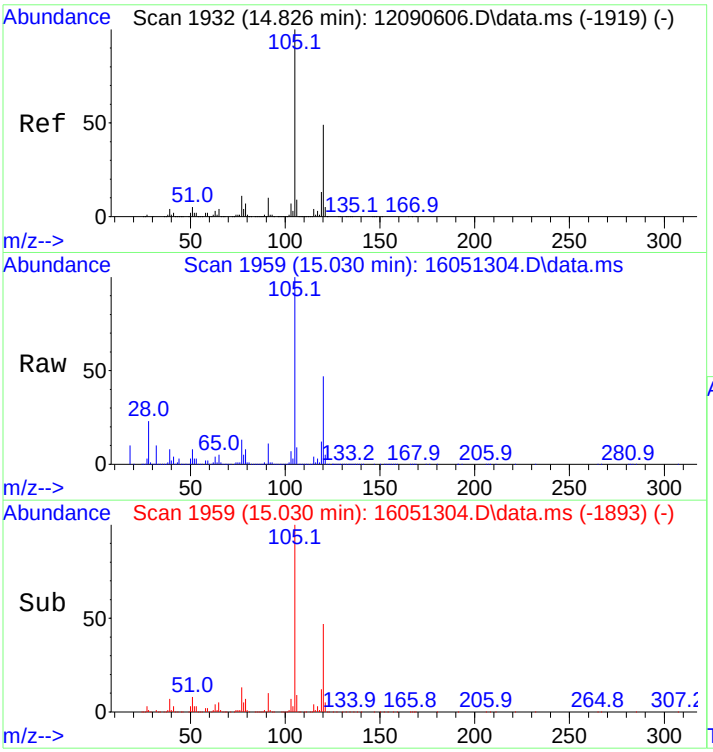


#52
1,3,5-Trimethylbenzene
Concen: 52.80 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 136200

Ion	Ratio	Lower	Upper
105	100		
120	50.6	39.9	59.9

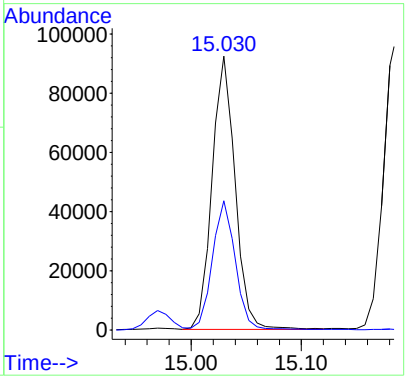


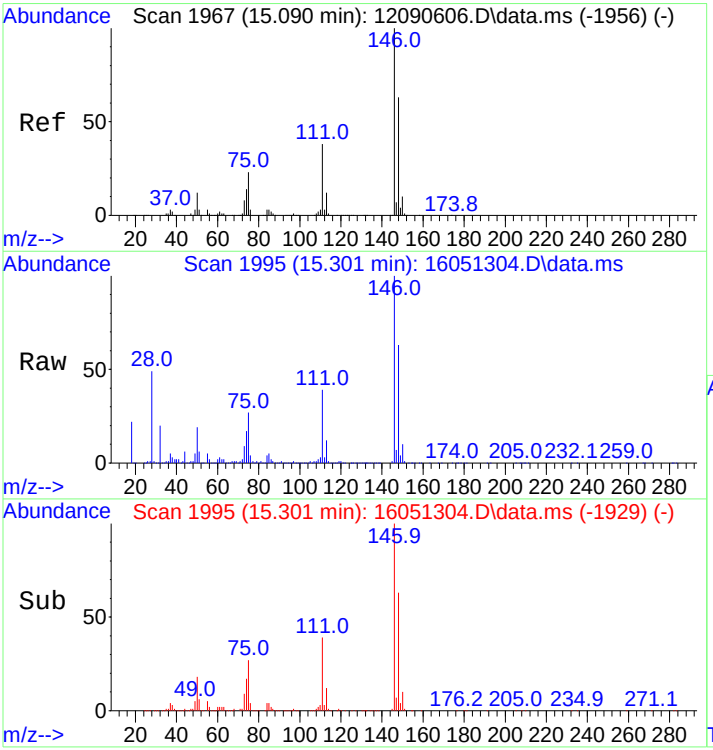


#53
1,2,4-Trimethylbenzene
Concen: 52.83 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 134558

Ion	Ratio	Lower	Upper
105	100		
120	46.8	37.5	56.3

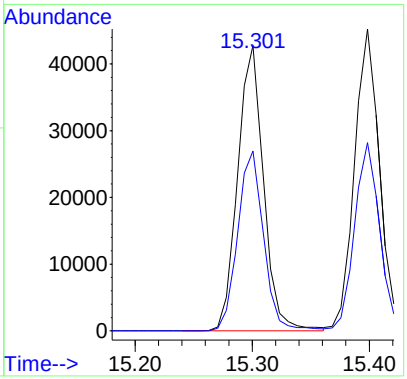


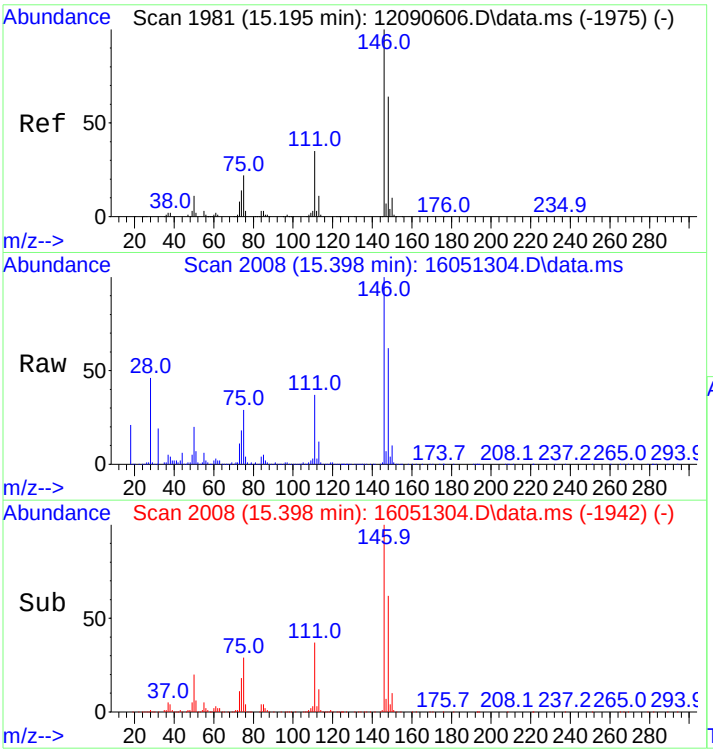


#54
1,3-Dichlorobenzene
Concen: 49.44 ng
RT: 15.301 min Scan# 1995
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:146 Resp: 65711

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.6	76.0

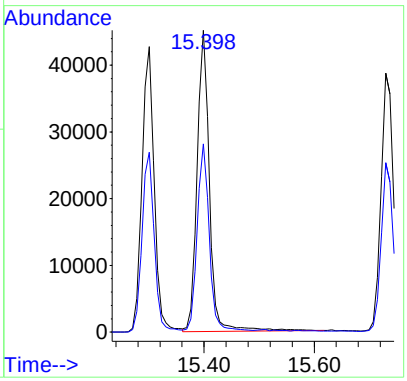


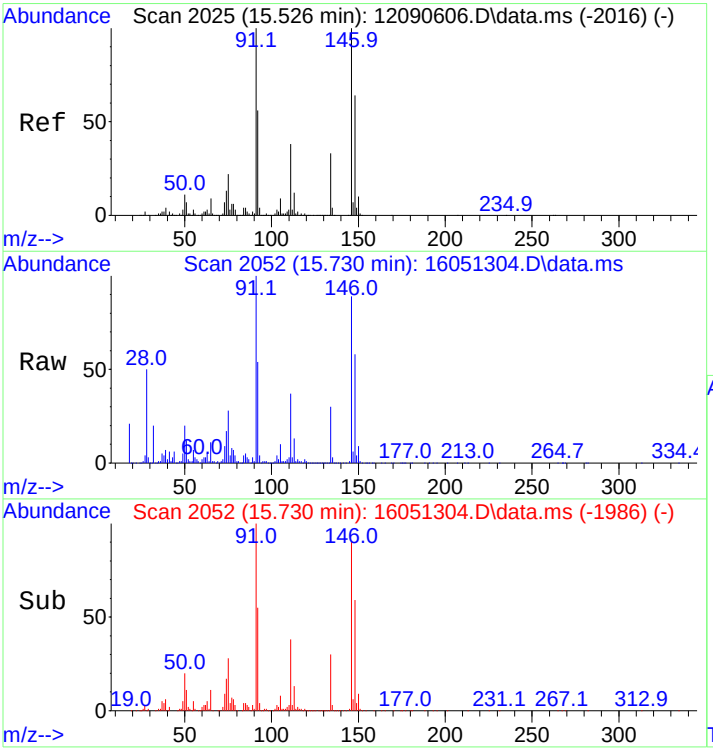


#55
1,4-Dichlorobenzene
Concen: 50.28 ng
RT: 15.398 min Scan# 2008
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:146 Resp: 70391

Ion	Ratio	Lower	Upper
146	100		
148	61.7	49.9	74.9

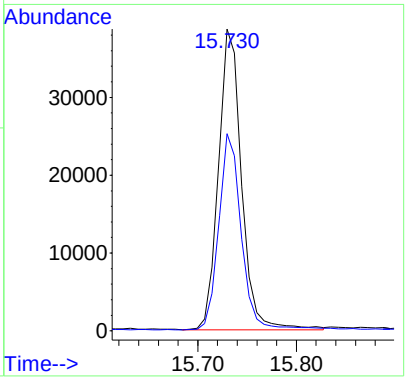


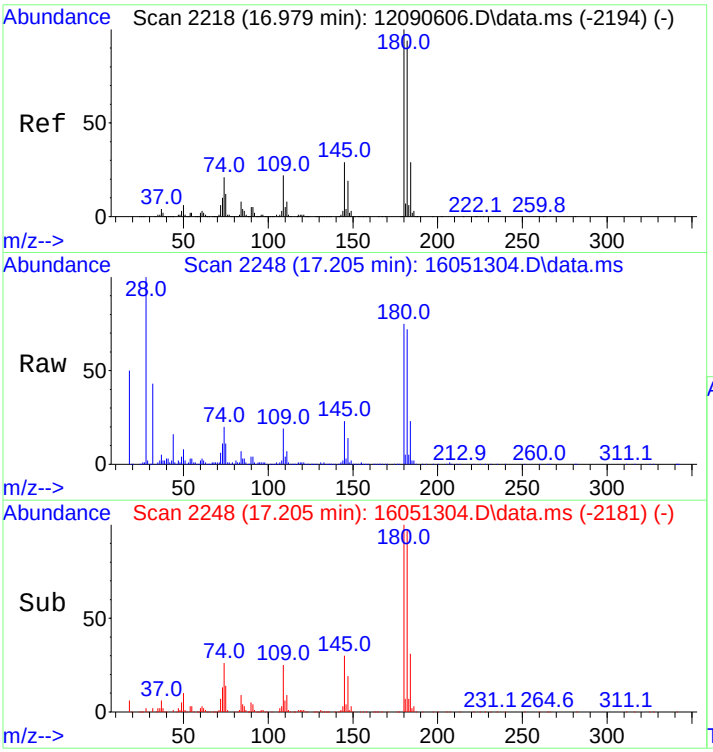


#56
1,2-Dichlorobenzene
Concen: 50.01 ng
RT: 15.730 min Scan# 2052
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:146 Resp: 62886

Ion	Ratio	Lower	Upper
146	100		
148	65.1	49.9	74.9

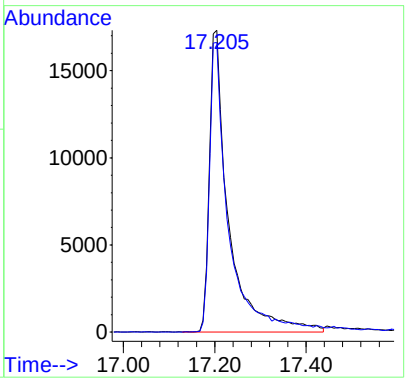


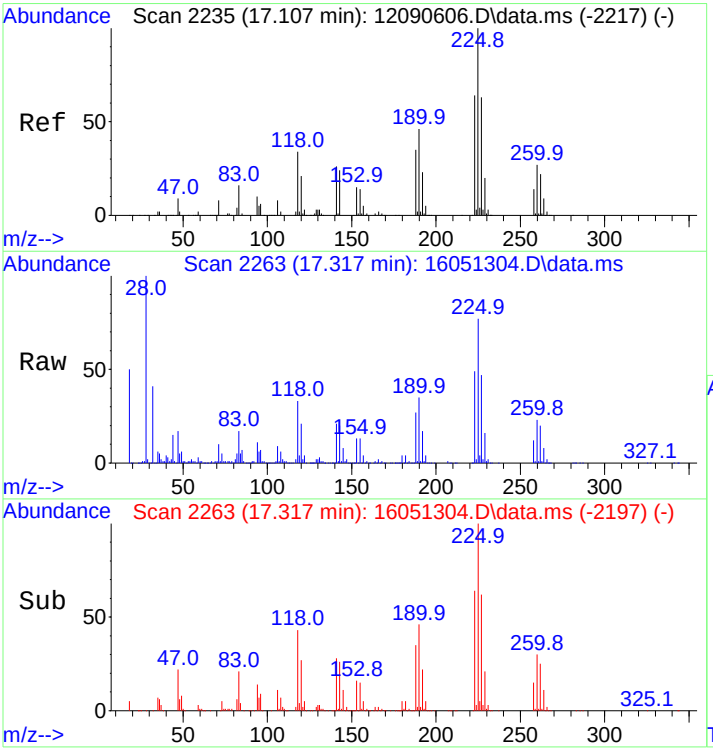


#57
1,2,4-Trichlorobenzene
Concen: 47.63 ng
RT: 17.205 min Scan# 2248
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:180 Resp: 50753

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.0	112.4

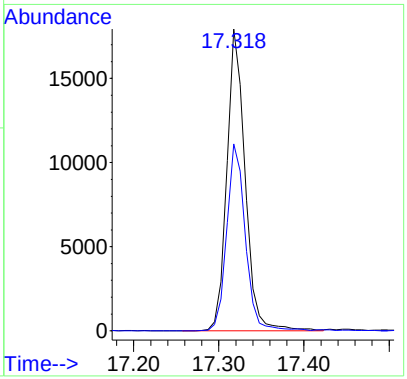


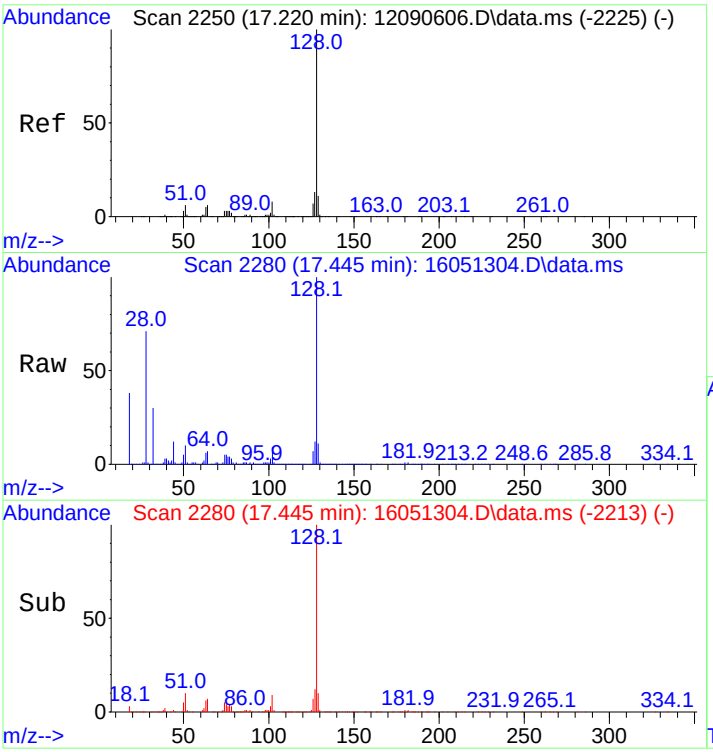


#58
Hexachlorobutadiene
Concen: 47.82 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:225 Resp: 26787

Ion	Ratio	Lower	Upper
225	100		
227	62.9	51.1	76.7

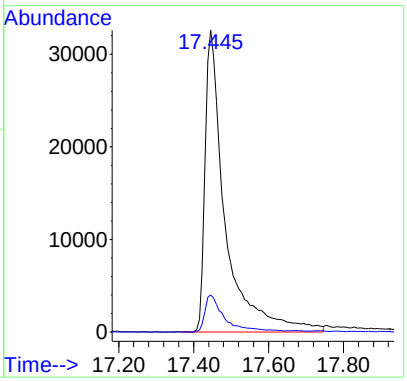


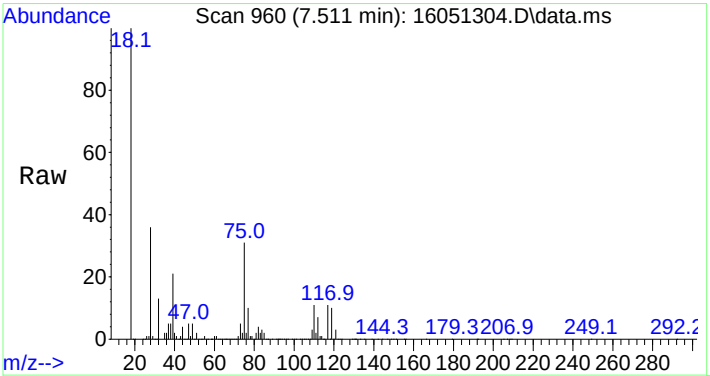


#59
Naphthalene
Concen: 46.06 ng
RT: 17.445 min Scan# 2280
Delta R.T. 0.008 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:128 Resp: 121808

Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.8	14.8

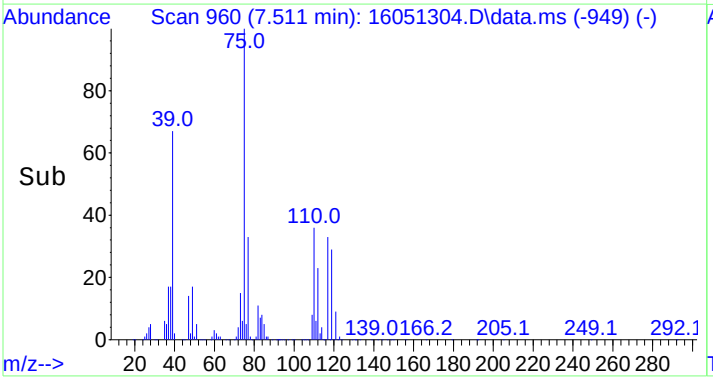


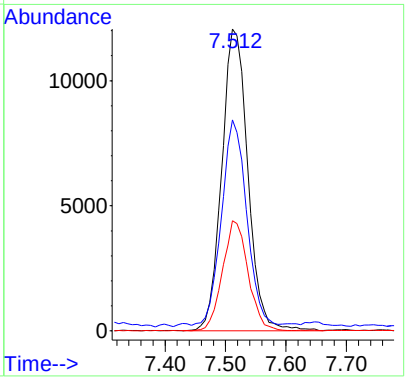


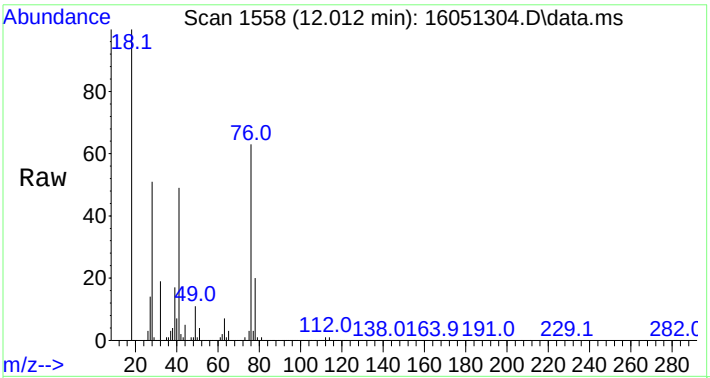
#60
1,1-Dichloropropene
Concen: 49.74 ng
RT: 7.511 min Scan# 960
Delta R.T. -0.007 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 75 Resp: 36245

Ion	Ratio	Lower	Upper
75	100		
39	66.1	51.7	77.5
110	35.7	29.3	43.9



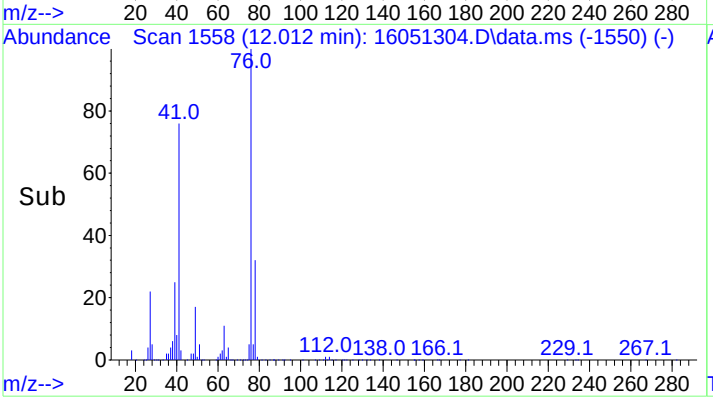


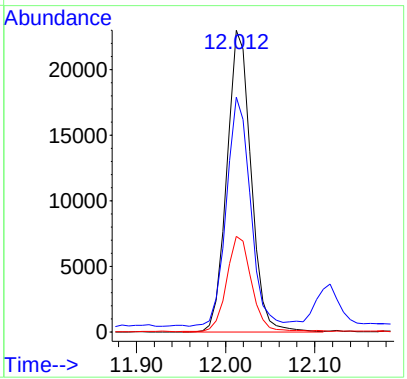


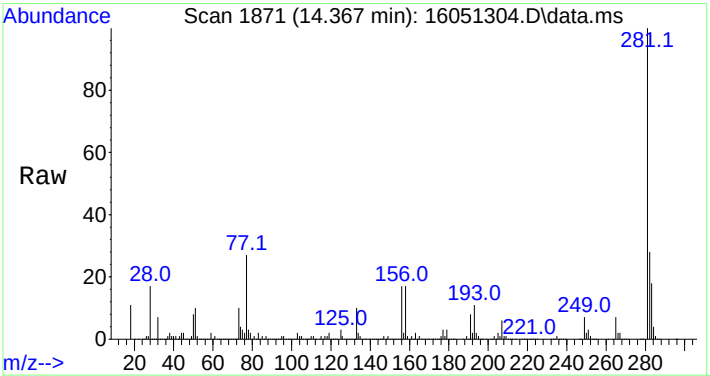
#61
1,3-Dichloropropane
Concen: 53.43 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 76 Resp: 43419

Ion	Ratio	Lower	Upper
76	100		
41	75.6	58.2	87.4
78	32.9	26.1	39.1



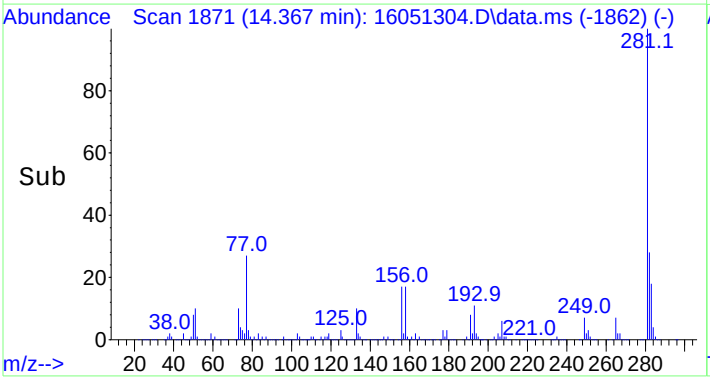


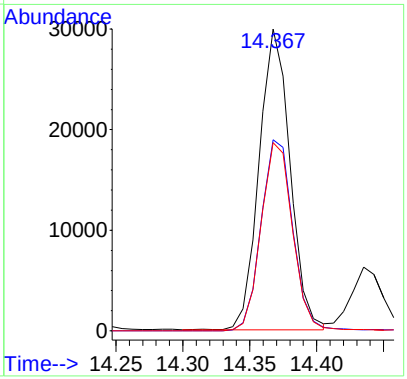


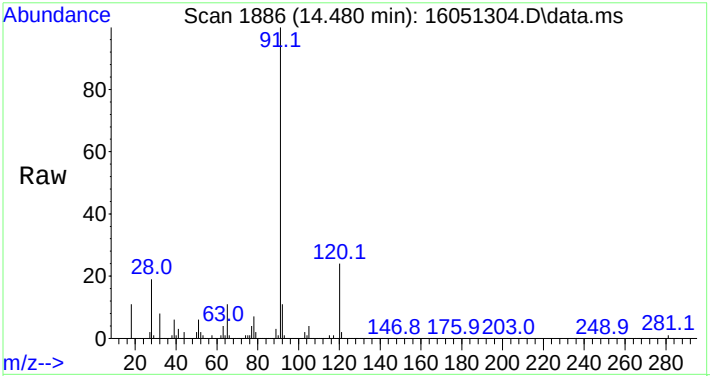
#62
Bromobenzene
Concen: 51.14 ng
RT: 14.367 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 77 Resp: 48139

Ion	Ratio	Lower	Upper
77	100		
156	65.9	55.0	82.4
158	64.0	53.3	79.9



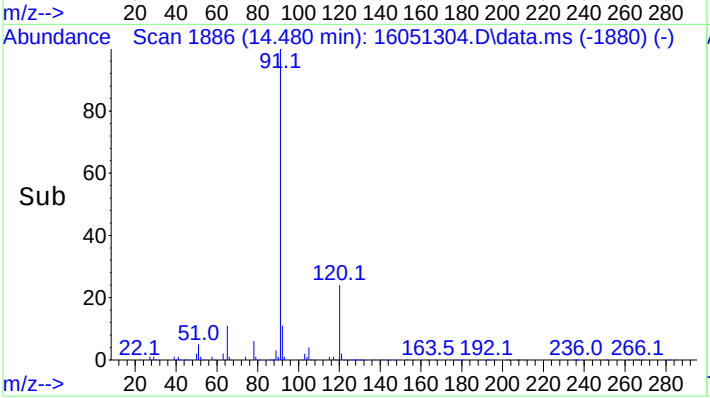


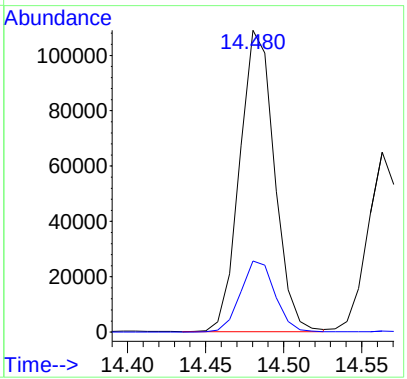


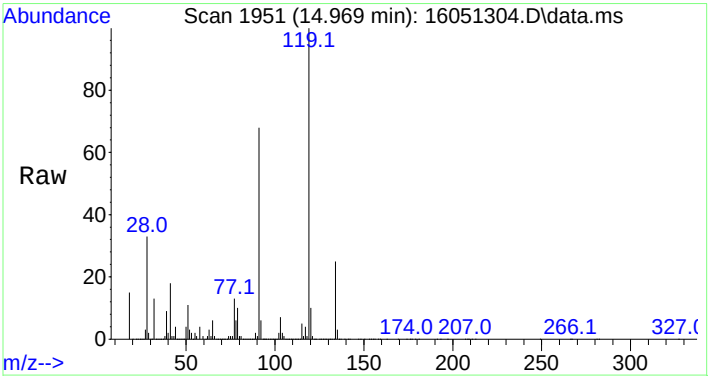
#63
n-Propylbenzene
Concen: 50.34 ng
RT: 14.480 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 168616

Ion	Ratio	Lower	Upper
91	100		
120	23.5	18.6	28.0



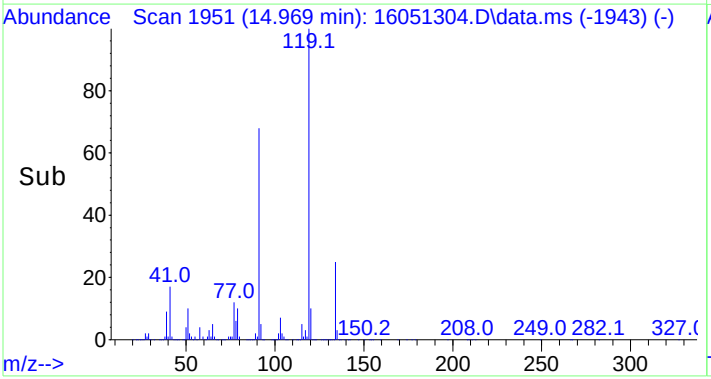


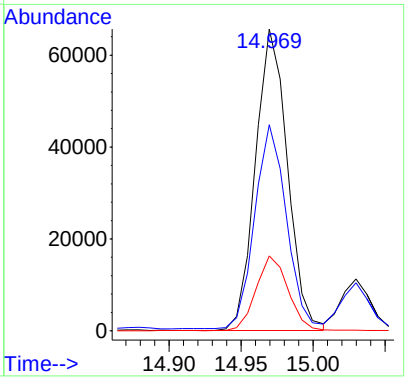


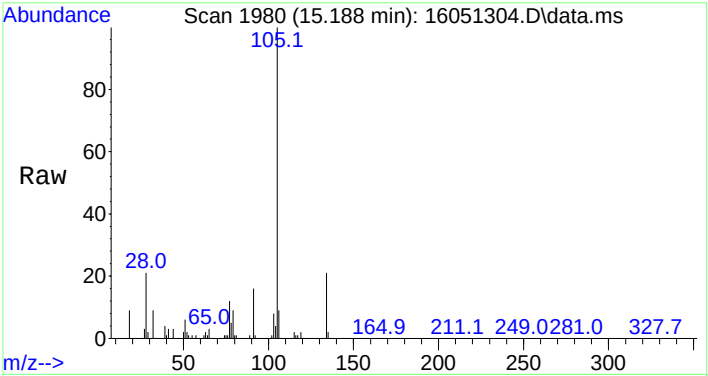
#64
tert-Butylbenzene
Concen: 50.47 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:119 Resp: 101196

Ion	Ratio	Lower	Upper
119	100		
91	66.9	54.0	81.0
134	25.0	19.9	29.9



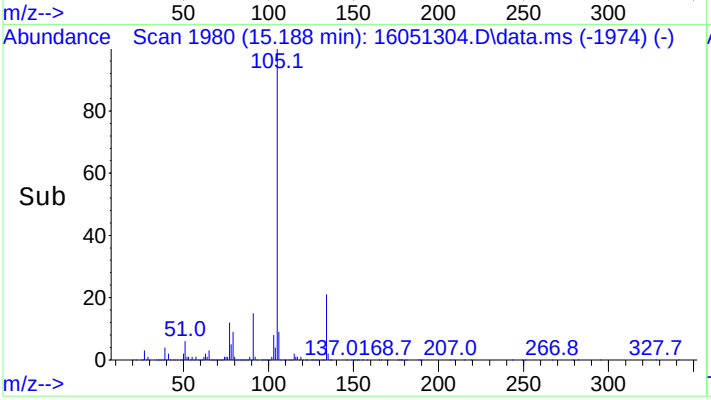


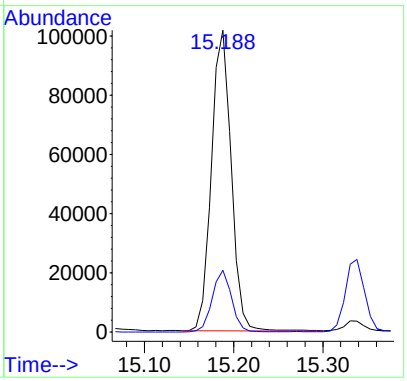


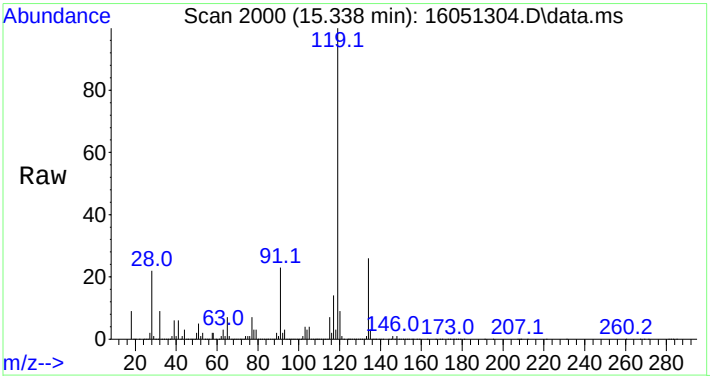
#65
sec-Butylbenzene
Concen: 50.45 ng
RT: 15.188 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:105 Resp: 156093

Ion	Ratio	Lower	Upper
105	100		
134	20.1	15.7	23.5



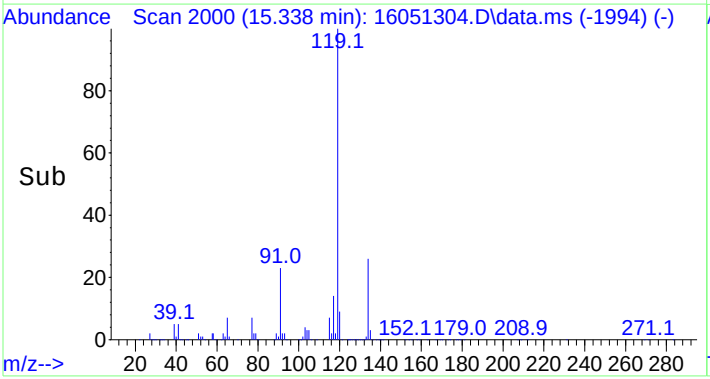


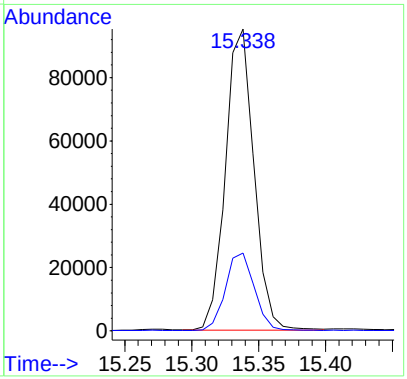


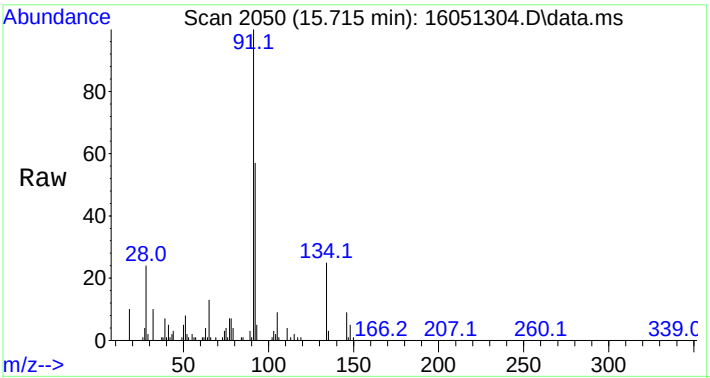
#66
p-Isopropyltoluene
Concen: 51.86 ng
RT: 15.338 min Scan# 2000
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:119 Resp: 141427

Ion	Ratio	Lower	Upper
119	100		
134	26.4	20.6	31.0



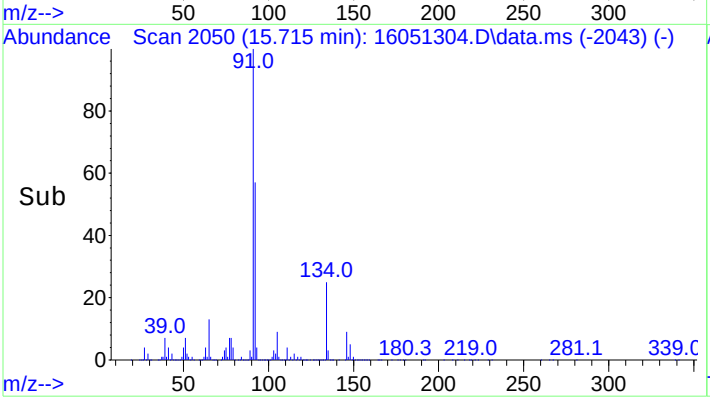


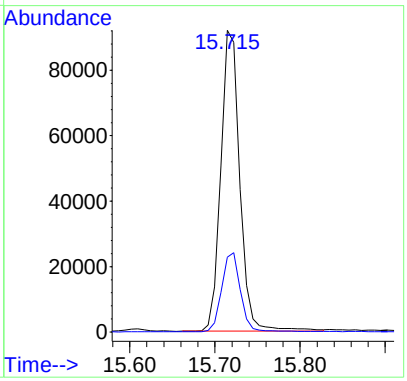


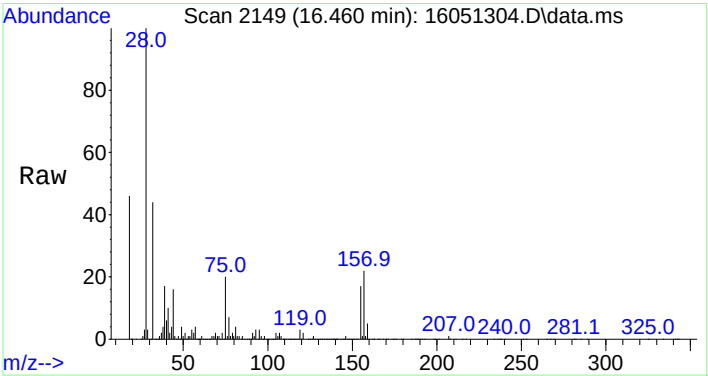
#67
n-Butylbenzene
Concen: 54.33 ng
RT: 15.715 min Scan# 2050
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion: 91 Resp: 143069

Ion	Ratio	Lower	Upper
91	100		
134	26.1	21.0	31.6



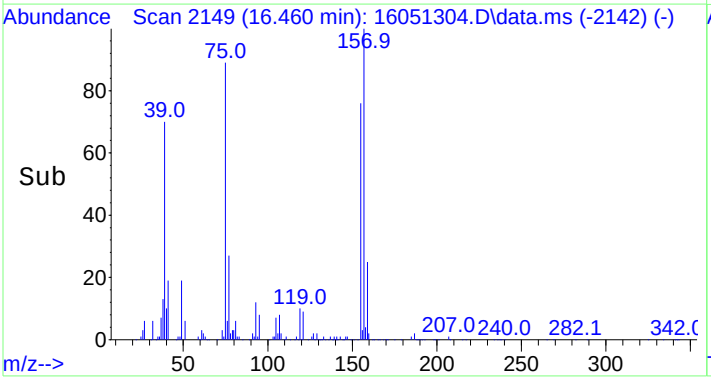


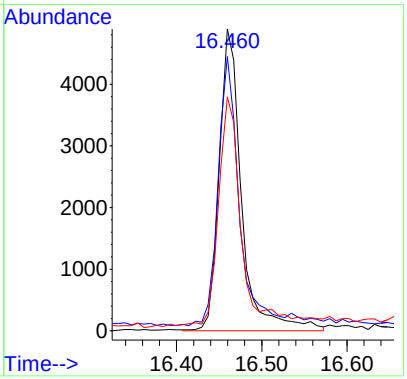


#68
1,2-Dibromo-3-chloropropane
Concen: 54.30 ng m
RT: 16.460 min Scan# 2149
Delta R.T. 0.000 min
Lab File: 16051304.D
Acq: 13 May 2016 12:16 pm

Tgt Ion:157 Resp: 8973

Ion	Ratio	Lower	Upper
157	100		
75	83.3	68.6	103.0
155	71.9	62.2	93.2





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051306.D
Acq On : 13 May 2016 1:51 pm
Operator : SG Instrument MSD-3
Sample : 100NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:37:48 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:34:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.759	130	94395	250.00 ng	0.00
20) 1,4-Difluorobenzene	8.685	114	448504	250.00 ng	0.00
32) d5-Chlorobenzene	12.953	117	316694	250.00 ng	0.00
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.843	65	120787	198.82 ng	0.00
Spiked Amount 250.000			Recovery	= 79.53%	
48) d10-Ethylbenzene(SPK)	13.020	98	460750	211.66 ng	0.00
Spiked Amount 200.000			Recovery	= 105.83%	
49) d8-Toluene(SURR)	11.101	98	469049	250.01 ng	0.00
Spiked Amount 250.000			Recovery	= 100.00%	
50) 4-Bromofluorobenzene(S...	14.239	95	151759	243.29 ng	0.00
Spiked Amount 250.000			Recovery	= 97.32%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.724	85	74319	118.68 ng	100
3) Chloromethane	1.905	50	83996	113.10 ng	99
4) Vinyl Chloride	2.018	62	95038	106.47 ng	96
5) Bromomethane	2.371	94	39678	100.02 ng	98
6) Chloroethane	2.477	64	49819m	107.10 ng	
7) Trichlorofluoromethane	2.755	101	142143	106.76 ng	99
8) 1,1-Dichloroethene	3.372	61	162829	101.47 ng	99
9) Acetone	3.417	43	54516	91.28 ng	99
10) Iodomethane	3.560	142	66857	105.04 ng	100
11) Carbon disulfide	3.651	76	259249	103.20 ng	99
12) Methylene Chloride	4.065	49	114117	102.76 ng	98
13) trans,1,2-Dichloroethene	4.509	61	81982	76.97 ng	98
14) 1,1-Dichloroethane	5.284	63	96221	72.83 ng	100
15) Vinyl Acetate	5.337	43	57342	85.19 ng	100
16) cis,1,2-Dichloroethene	6.330	61	95169	77.09 ng	100
17) 2-Butanone	6.330	43	30038	70.35 ng	100
18) Chloroform	6.977	83	91005	73.43 ng	100
19) 1,1,1-Trichloroethane	7.225	97	64201	90.59 ng	100
22) Carbon Tetrachloride	7.496	117	80805	94.31 ng	99
23) Benzene	7.858	78	341907	105.30 ng	100
24) 1,2-Dichloroethane	7.986	62	72048	77.51 ng	99
25) Trichloroethene	9.062	95	71999	98.91 ng	100
26) 1,2-Dichloropropane	9.521	63	70987	95.38 ng	99
27) Dibromomethane	9.656	93	29449	70.64 ng	99
28) Bromodichloromethane	10.018	83	72244	89.15 ng	100
29) cis,1,3-Dichloropropene	10.732	75	73680	88.75 ng	100
30) trans,1,3-Dichloropropene	11.568	75	46616	82.55 ng	99
31) 4-Methyl-2-Pentanone	10.981	43	89761	81.90 ng	99
33) Toluene	11.199	91	311817	99.27 ng	99
34) 1,1,2-Trichloroethane	11.816	83	50262	92.59 ng	99
35) Tetrachloroethene	11.884	166	78116m	94.65 ng	
36) 2-Hexanone	12.110	43	65024m	80.26 ng	
37) Chlorodibromomethane	12.275	129	66656	90.53 ng	99
38) Ethylene Dibromide	12.396	107	62775	93.40 ng	97
39) Chlorobenzene	12.983	112	189104	97.97 ng	93
40) 1,1,1,2-Tetrachloroethane	13.096	131	63506	92.70 ng	99
41) Ethylbenzene	13.111	91	358874	100.57 ng	100
42) M&P-Xylene	13.254	91	620547	204.50 ng	100
43) O-Xylene	13.667	91	320417	101.86 ng	100
44) Styrene	13.690	104	271000	100.92 ng	99
45) Bromoform	13.878	173	50056	86.26 ng	99
46) 1,1,2,2-Tetrachloroethane	14.390	83	83732	89.09 ng	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051306.D
Acq On : 13 May 2016 1:51 pm
Operator : SG
Sample : 100NG-VOSTSTD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:37:48 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:34:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,2,3-Trichloropropane	14.435	75	64965m	82.93 ng	
51) Isopropylbenzene	14.059	105	366165	100.15 ng	100
52) 1,3,5-Trimethylbenzene	14.668	105	356396	100.02 ng	100
53) 1,2,4-Trimethylbenzene	15.030	105	345983	98.34 ng	100
54) 1,3-Dichlorobenzene	15.301	146	175886	95.79 ng	99
55) 1,4-Dichlorobenzene	15.398	146	192775	99.33 ng	99
56) 1,2-Dichlorobenzene	15.737	146	176864	101.84 ng	100
57) 1,2,4-Trichlorobenzene	17.197	180	134091	91.04 ng	98
58) Hexachlorobutadiene	17.317	225	74698	96.48 ng	99
59) Naphthalene	17.438	128	315713	87.33 ng	99
60) 1,1-Dichloropropene	7.526	75	97323	96.69 ng	98
61) 1,3-Dichloropropane	12.019	76	104409	93.01 ng	99
62) Bromobenzene	14.367	77	125421	96.40 ng	99
63) n-Propylbenzene	14.480	91	461715	99.79 ng	100
64) tert-Butylbenzene	14.969	119	278375	100.51 ng	99
65) sec-Butylbenzene	15.188	105	431349	101.06 ng	100
66) p-Isopropyltoluene	15.338	119	378421	100.57 ng	100
67) n-Butylbenzene	15.722	91	368507	101.30 ng	100
68) 1,2-Dibromo-3-chloropr...	16.467	157	19430	84.92 ng	99

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

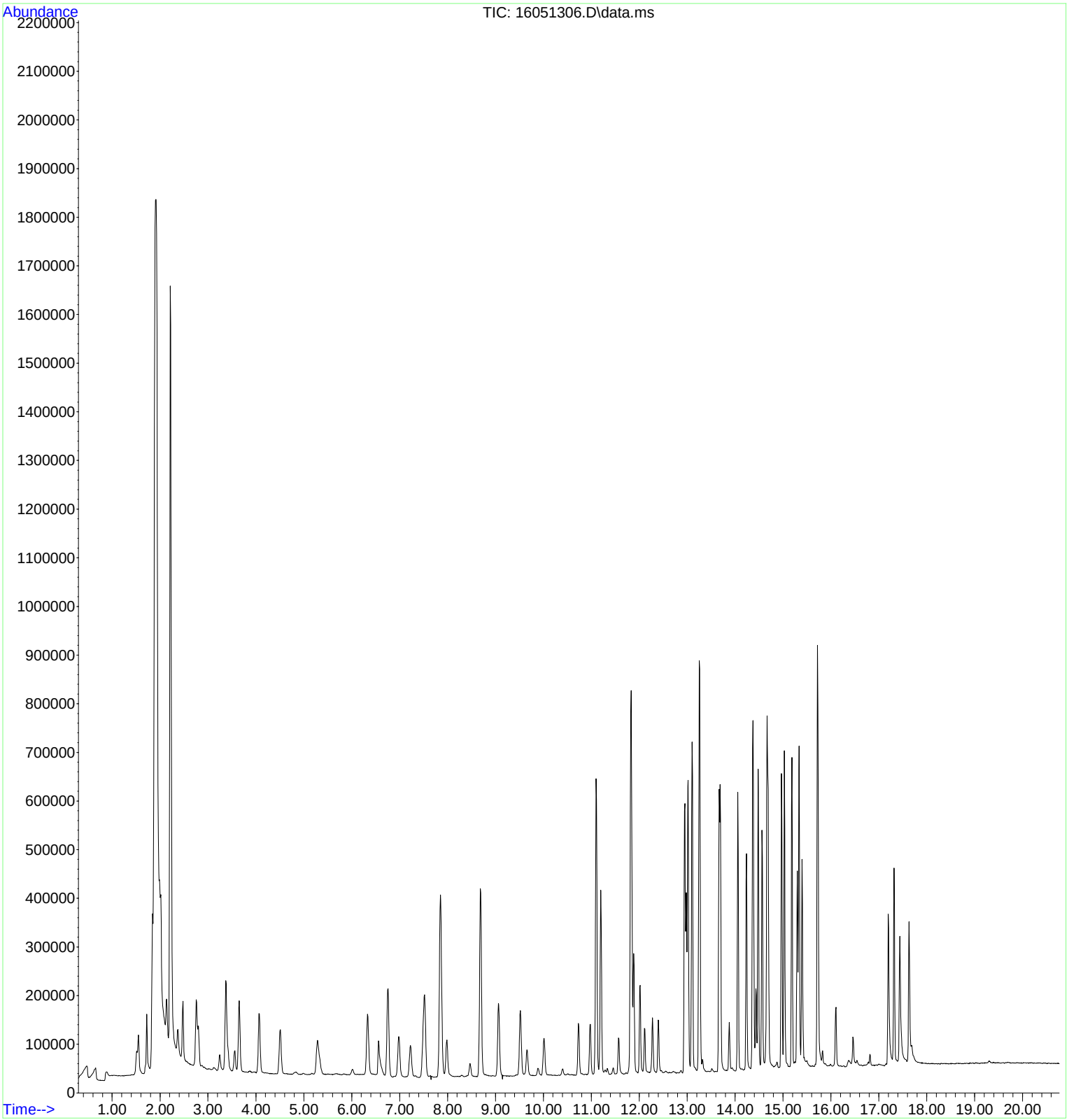
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

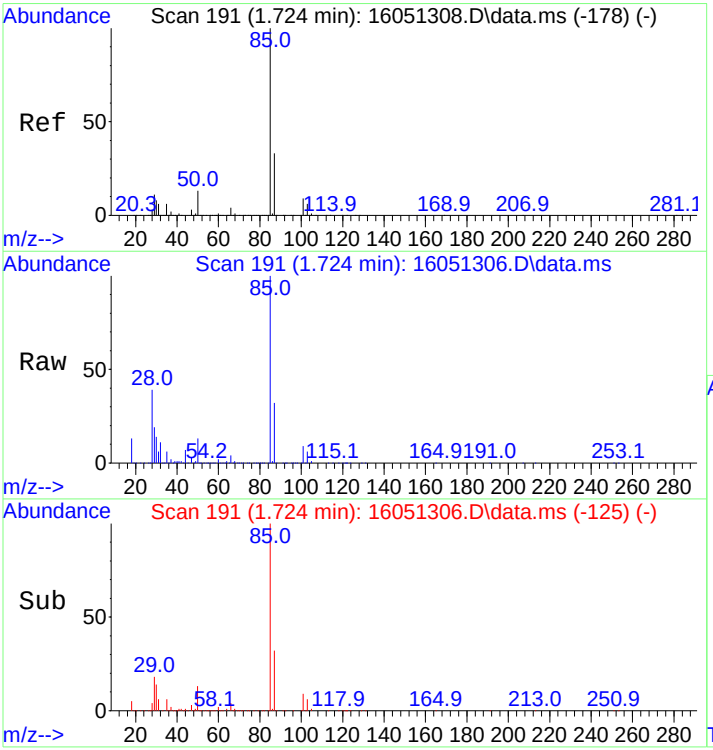
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051306.D
Acq On : 13 May 2016 1:51 pm
Operator : SG Instrument MSD-3
Sample : 100NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 13:05:38 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

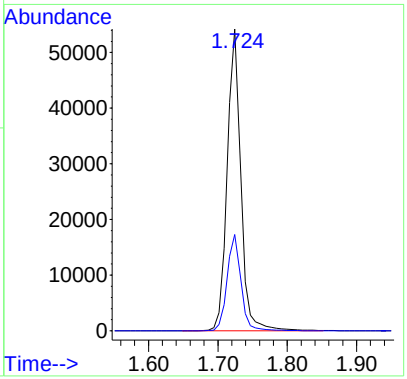


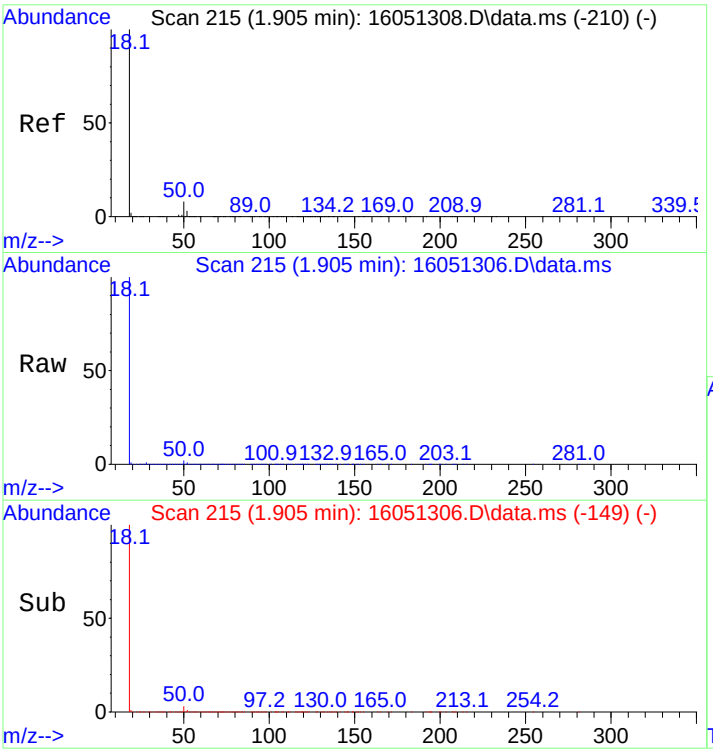


#2
Dichlorodifluoromethane
Concen: 118.68 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 85 Resp: 74319

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.0	39.0

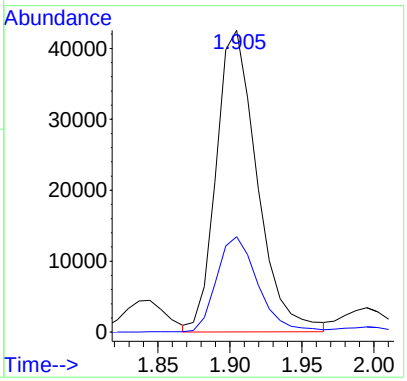


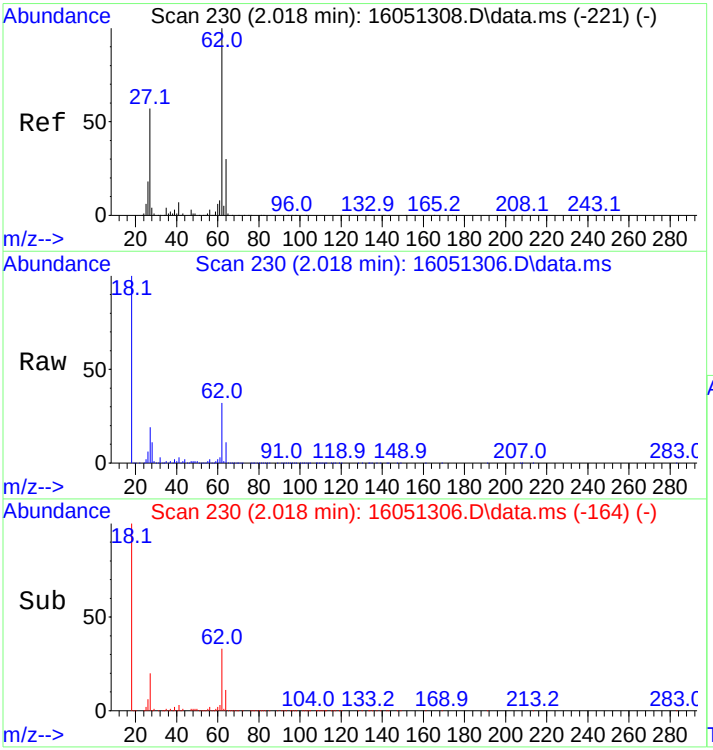


#3
Chloromethane
Concen: 113.10 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 50 Resp: 83996

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.0	39.0

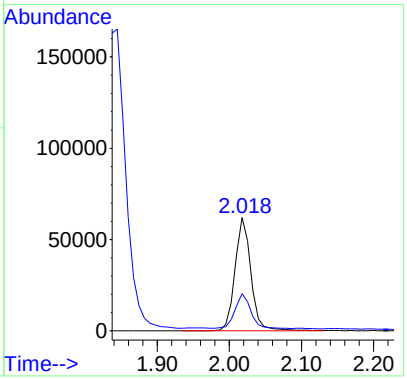


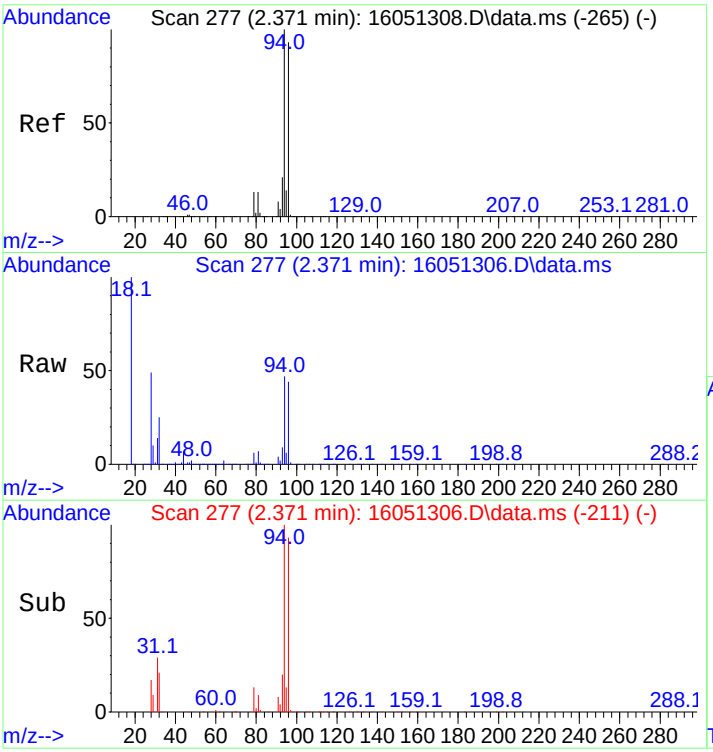


#4
Vinyl Chloride
Concen: 106.47 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 62 Resp: 95038

Ion	Ratio	Lower	Upper
62	100		
64	29.8	25.7	38.5

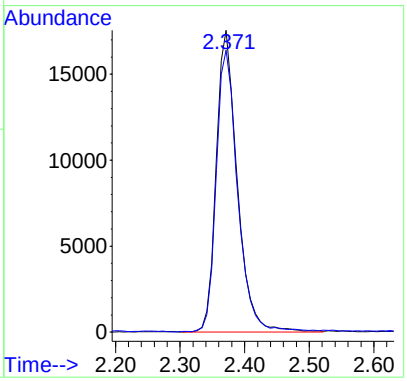


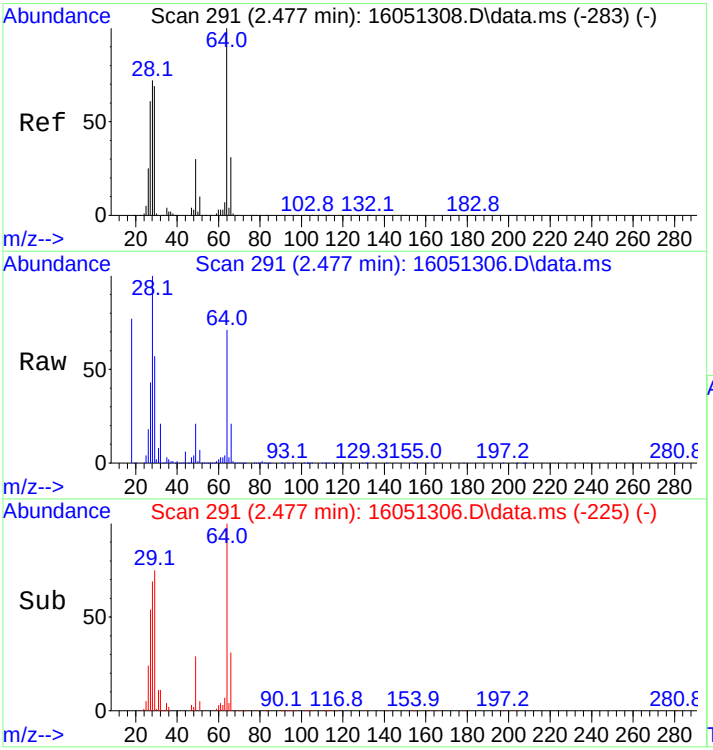


#5
Bromomethane
Concen: 100.02 ng
RT: 2.371 min Scan# 277
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 94 Resp: 39678

Ion	Ratio	Lower	Upper
94	100		
96	95.2	74.5	111.7

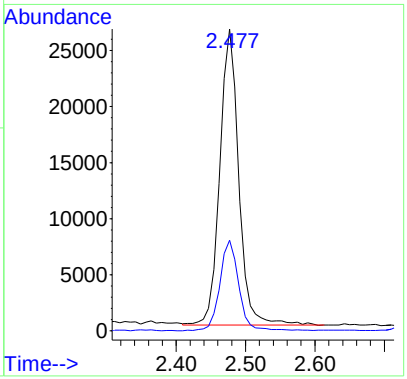


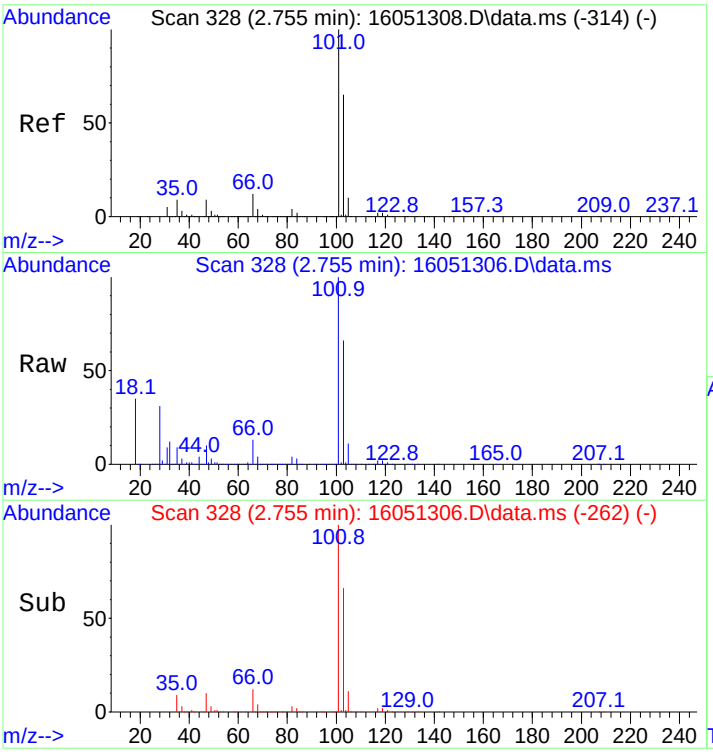


#6
Chloroethane
Concen: 107.82 ng
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 64 Resp: 50110

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4

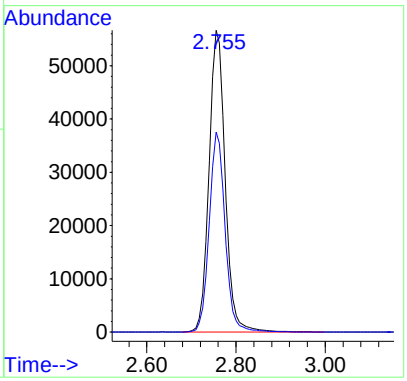


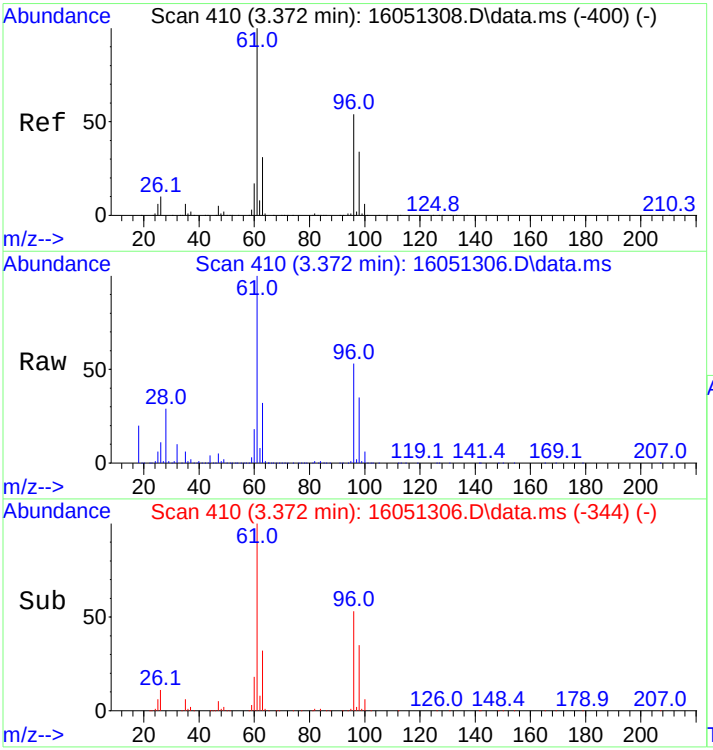


#7
Trichlorofluoromethane
Concen: 106.76 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:101 Resp: 142143

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.8	77.6

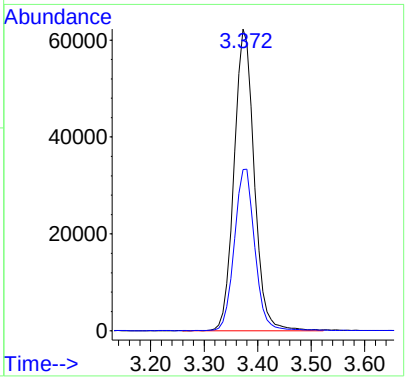


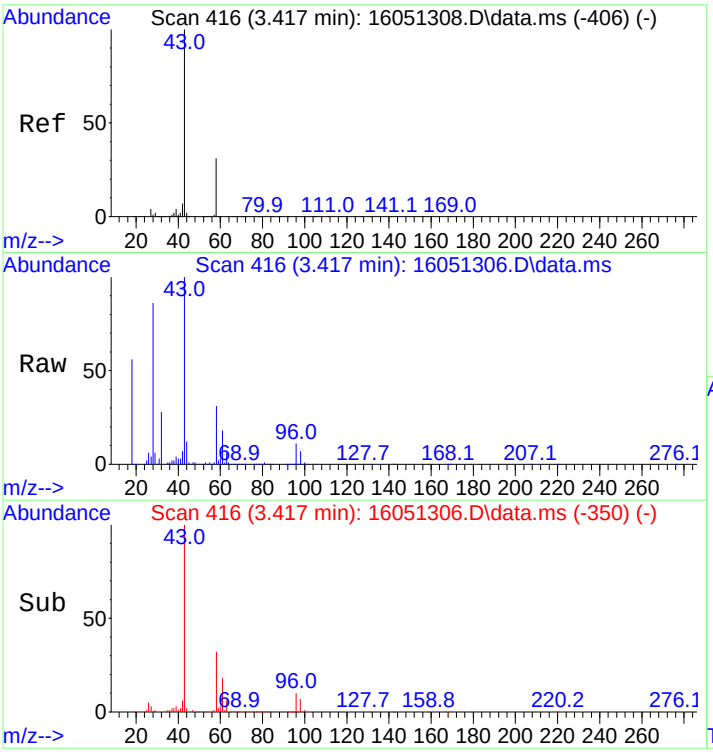


#8
1,1-Dichloroethene
Concen: 101.47 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 61 Resp: 162829

Ion	Ratio	Lower	Upper
61	100		
96	54.7	44.1	66.1

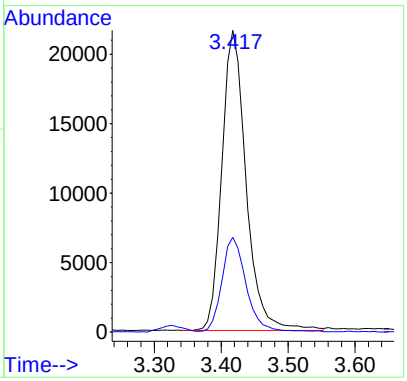


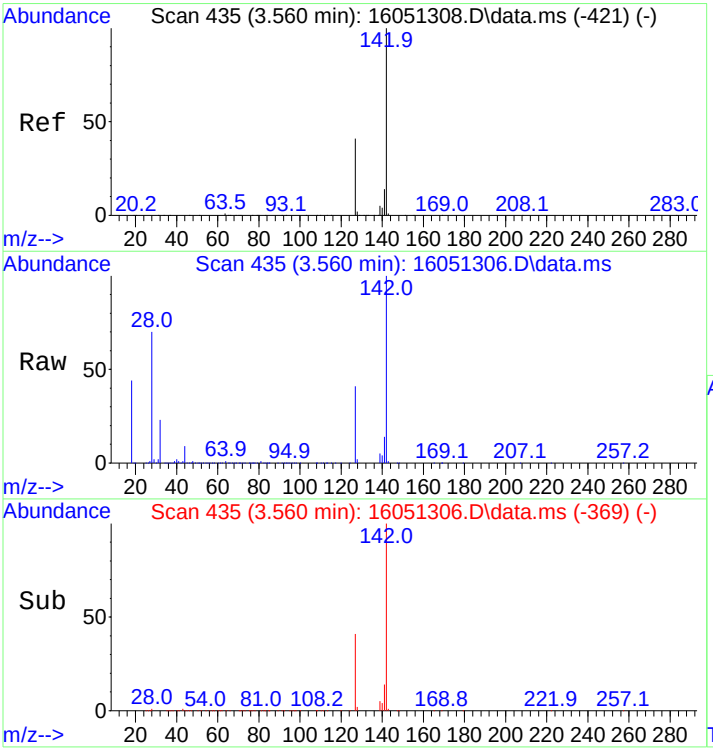


#9
Acetone
Concen: 91.28 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 54516

Ion	Ratio	Lower	Upper
43	100		
58	31.6	24.7	37.1

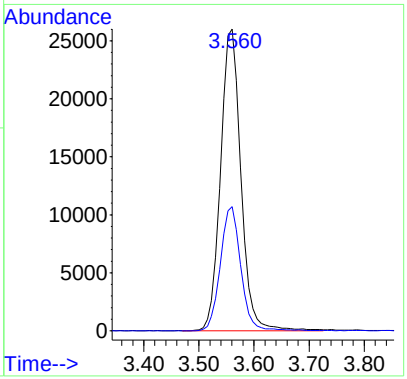


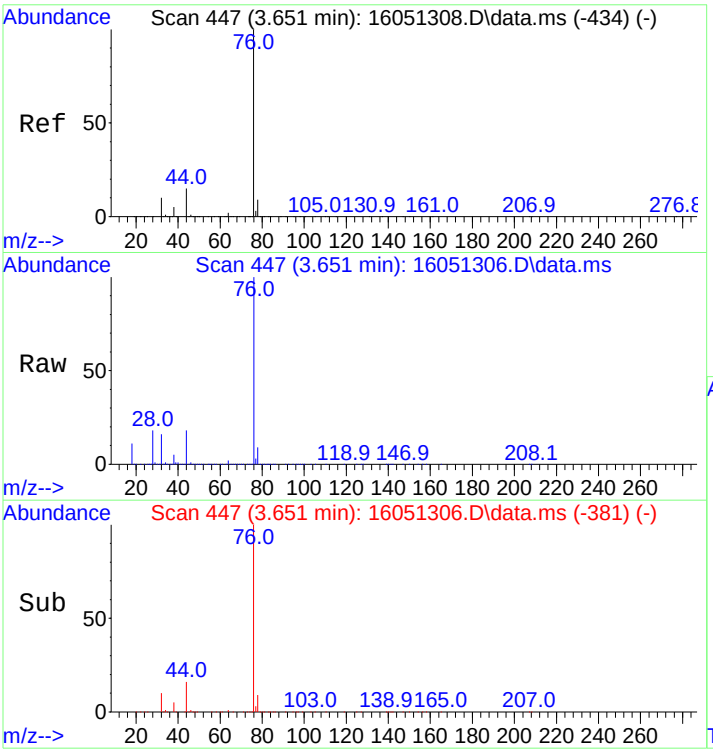


#10
Iodomethane
Concen: 105.04 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:142 Resp: 66857

Ion	Ratio	Lower	Upper
142	100		
127	41.3	32.8	49.2

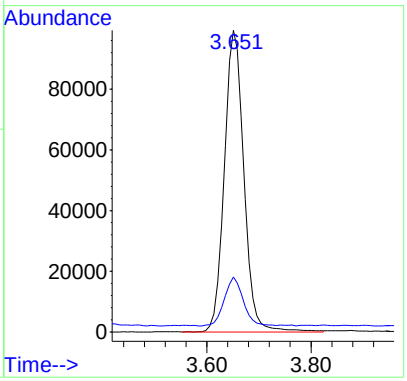


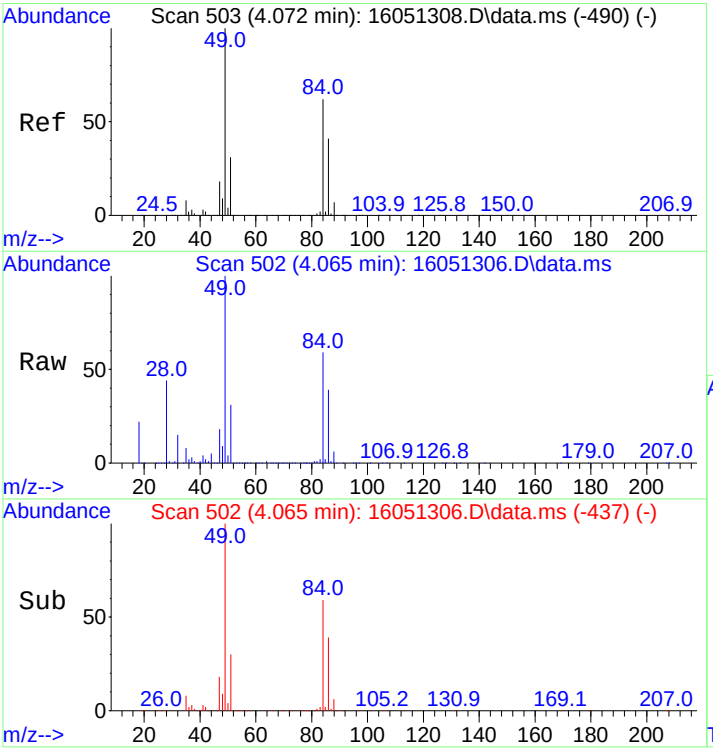


#11
Carbon disulfide
Concen: 103.20 ng
RT: 3.651 min Scan# 447
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 76 Resp: 259249

Ion	Ratio	Lower	Upper
76	100		
44	15.7	12.2	18.4

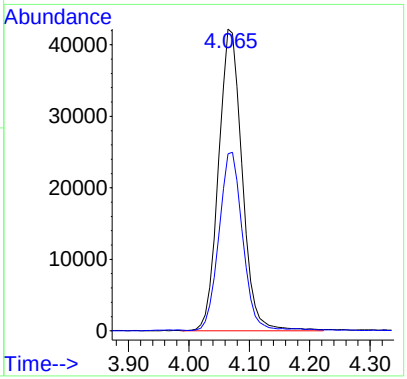


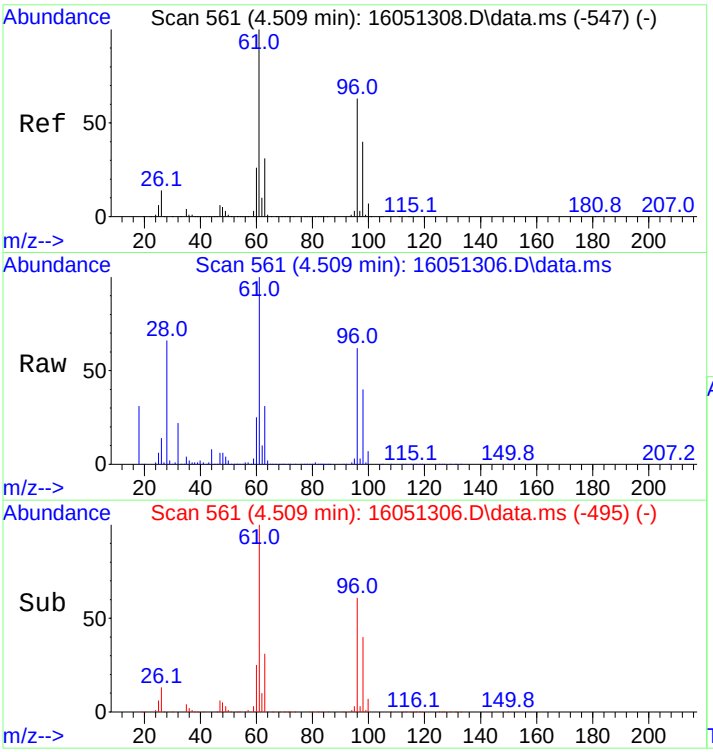


#12
Methylene Chloride
Concen: 102.76 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 49 Resp: 114117

Ion	Ratio	Lower	Upper
49	100		
84	59.2	48.4	72.6

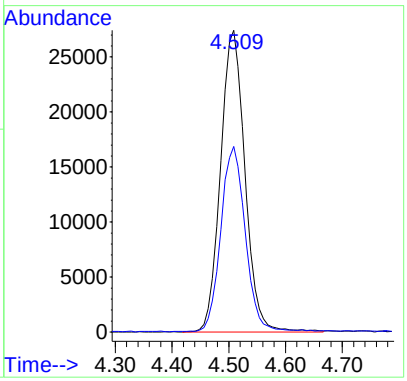


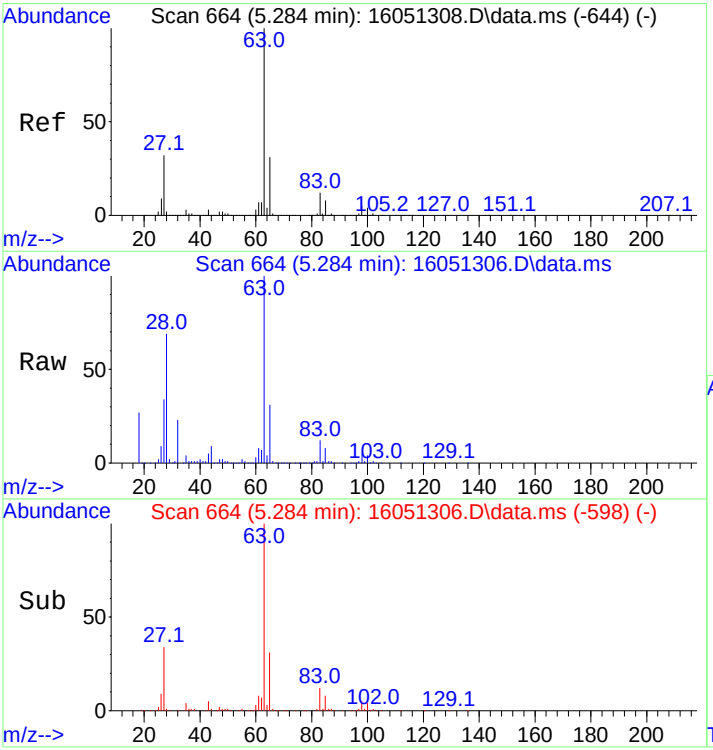


#13
trans,1,2-Dichloroethene
Concen: 76.97 ng
RT: 4.509 min Scan# 561
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 61 Resp: 81982

Ion	Ratio	Lower	Upper
61	100		
96	61.3	50.2	75.4

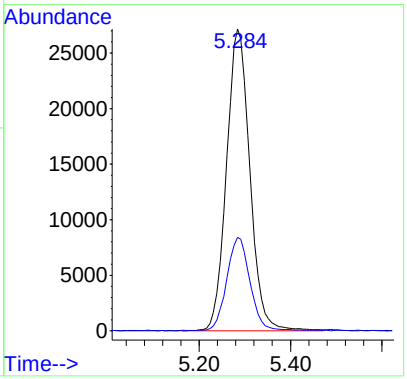


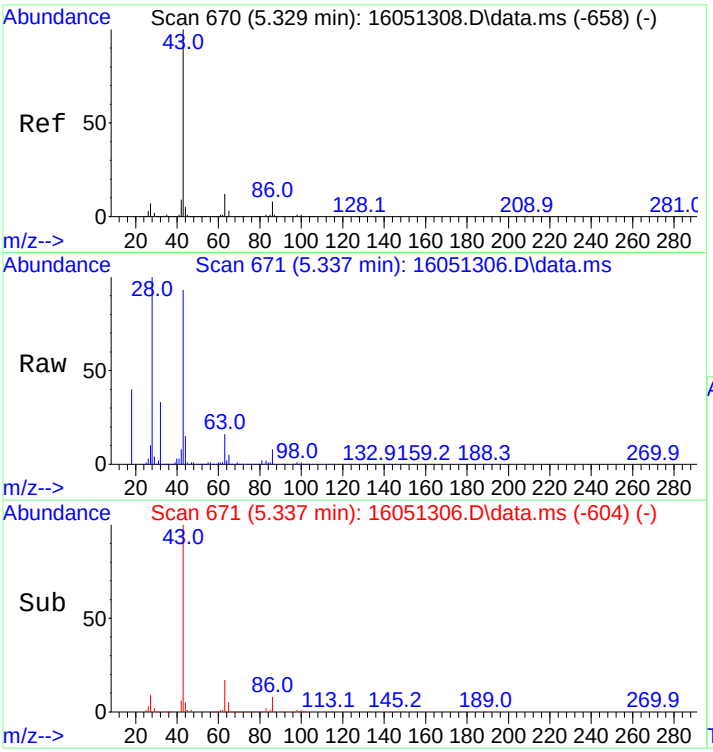


#14
1,1-Dichloroethane
Concen: 72.83 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 63 Resp: 96221

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

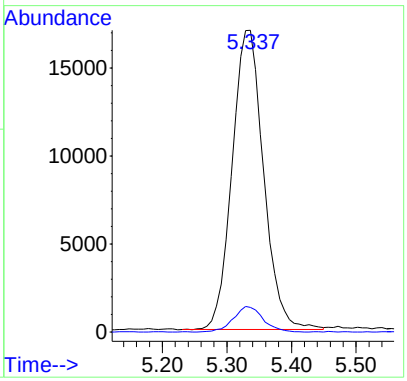


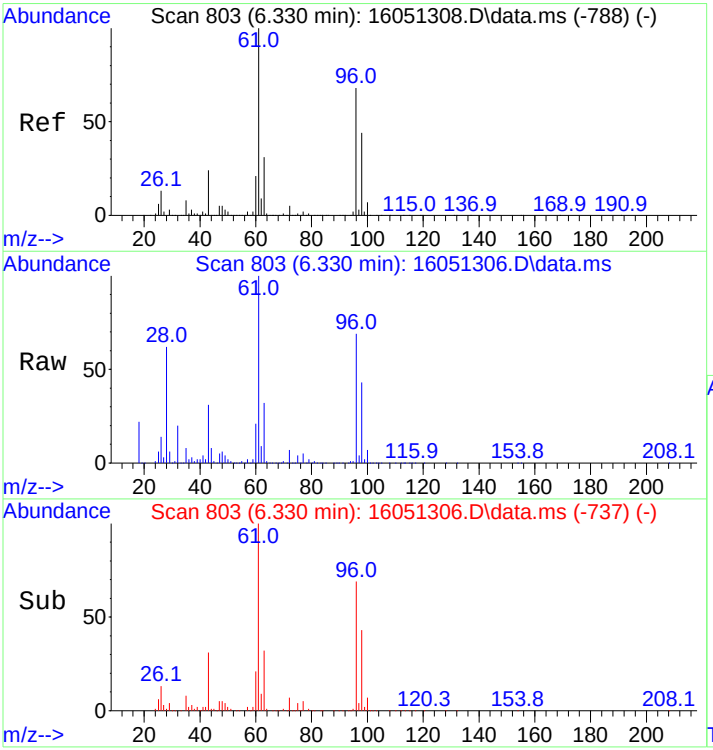


#15
Vinyl Acetate
Concen: 85.19 ng
RT: 5.337 min Scan# 671
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 57342

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.6	9.8

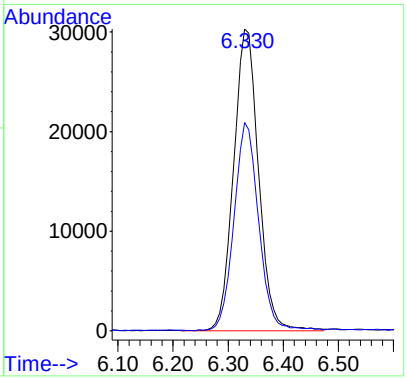


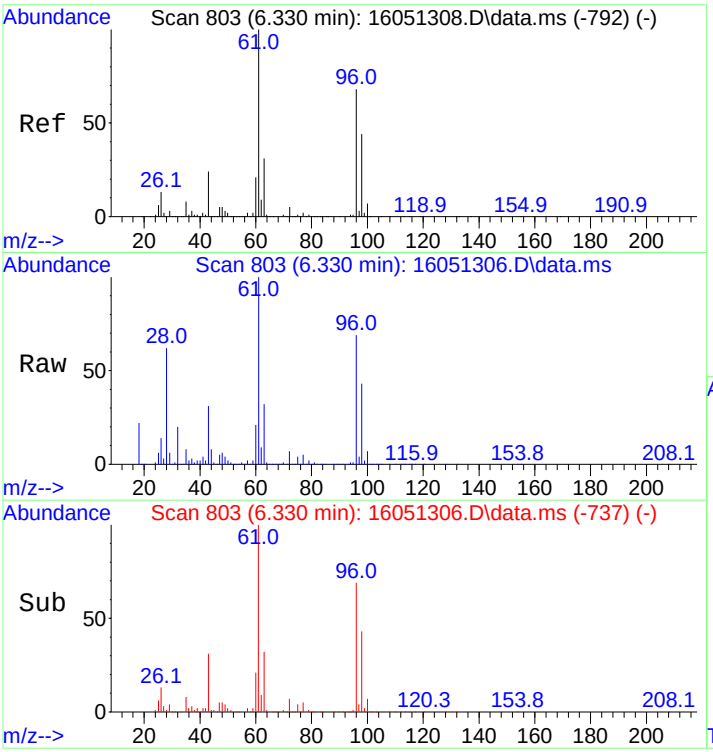


#16
cis,1,2-Dichloroethene
Concen: 77.09 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 61 Resp: 95169

Ion	Ratio	Lower	Upper
61	100		
96	68.2	54.6	81.8

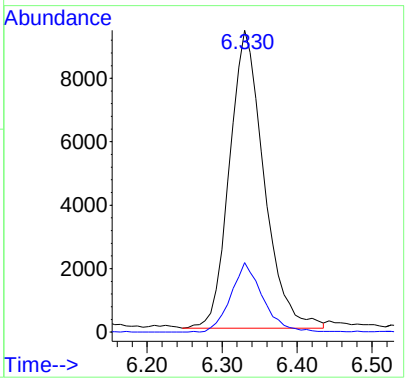


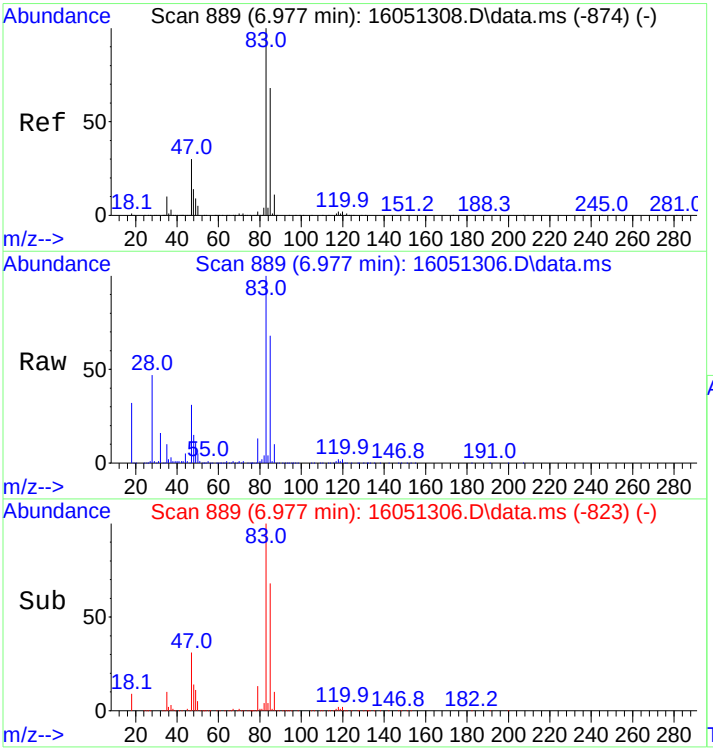


#17
2-Butanone
Concen: 70.35 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 30038

Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.4	26.2

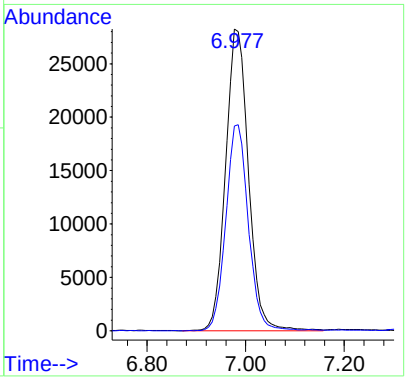


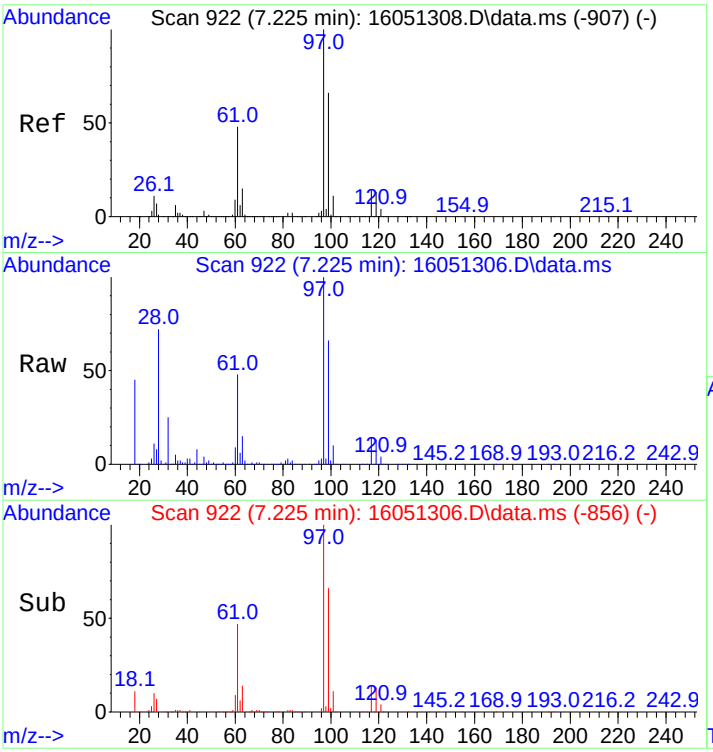


#18
Chloroform
Concen: 73.43 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 91005

Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.9	80.9

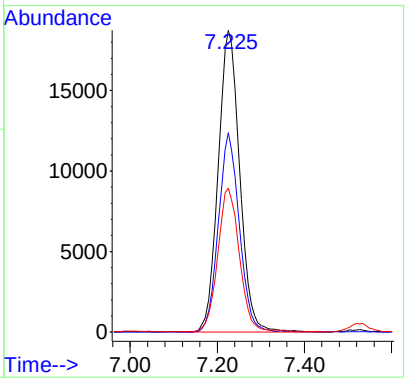


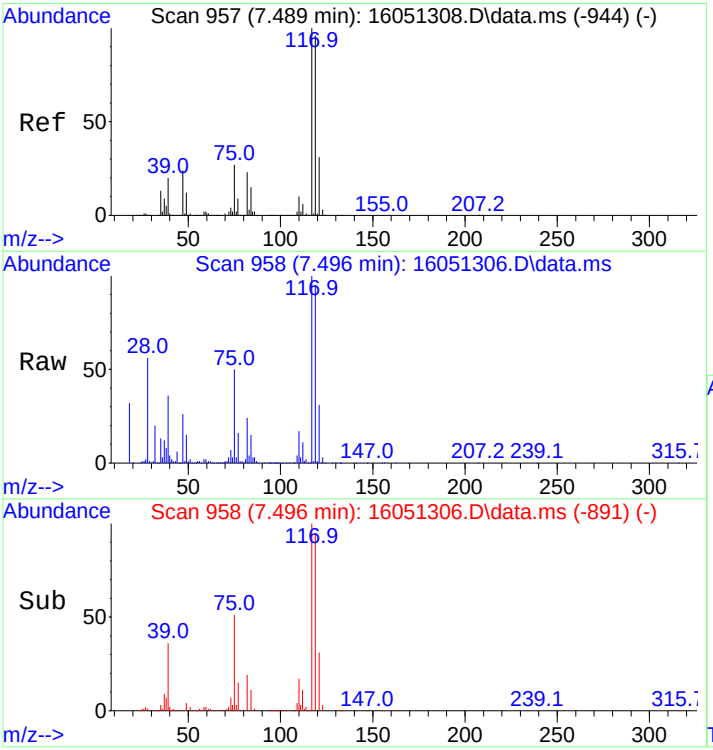


#19
1,1,1-Trichloroethane
Concen: 90.59 ng
RT: 7.225 min Scan# 922
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 97 Resp: 64201

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	47.7	37.6	56.4

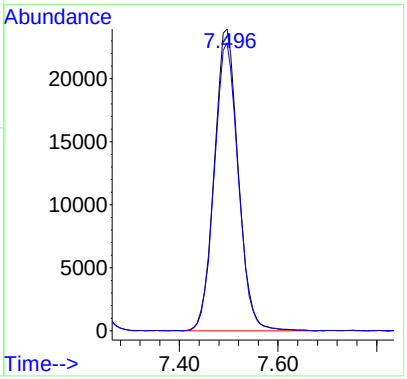


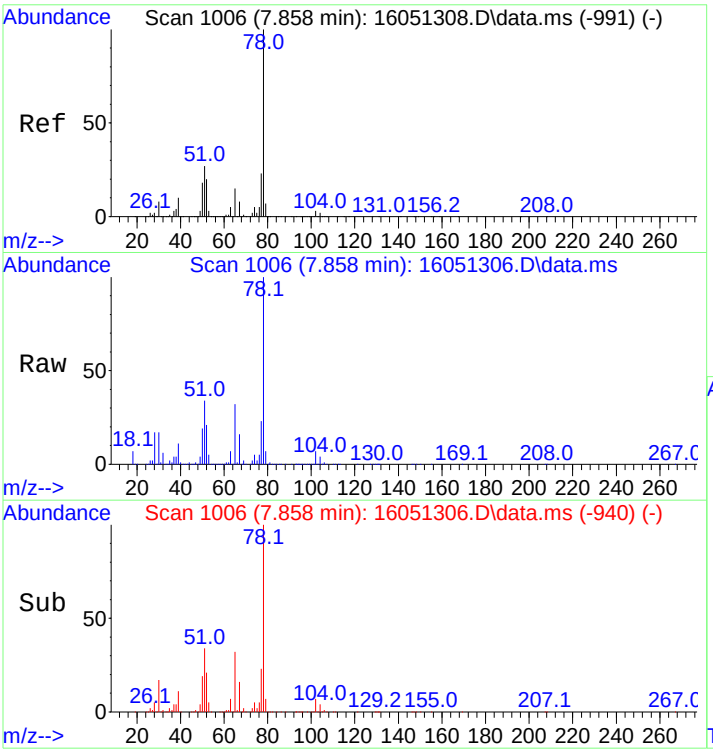


#22
Carbon Tetrachloride
Concen: 94.31 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:117 Resp: 80805

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.0	115.4

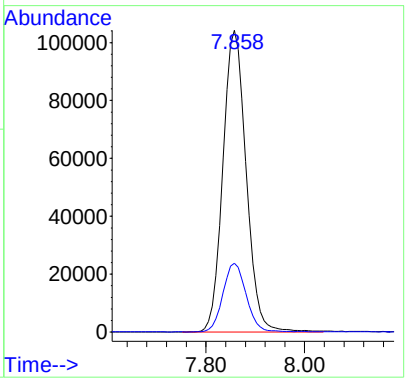


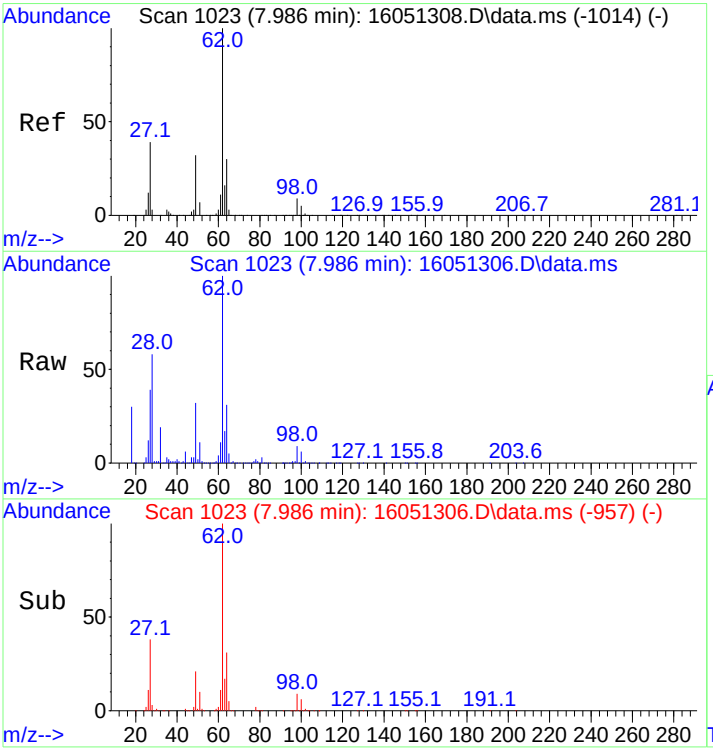


#23
Benzene
Concen: 105.30 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 78 Resp: 341907

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

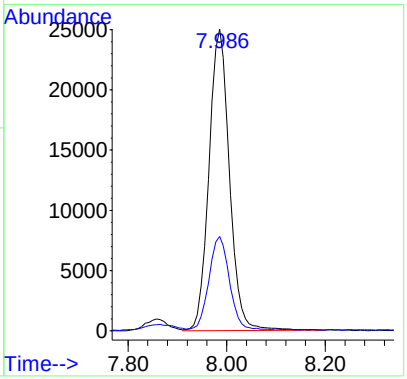


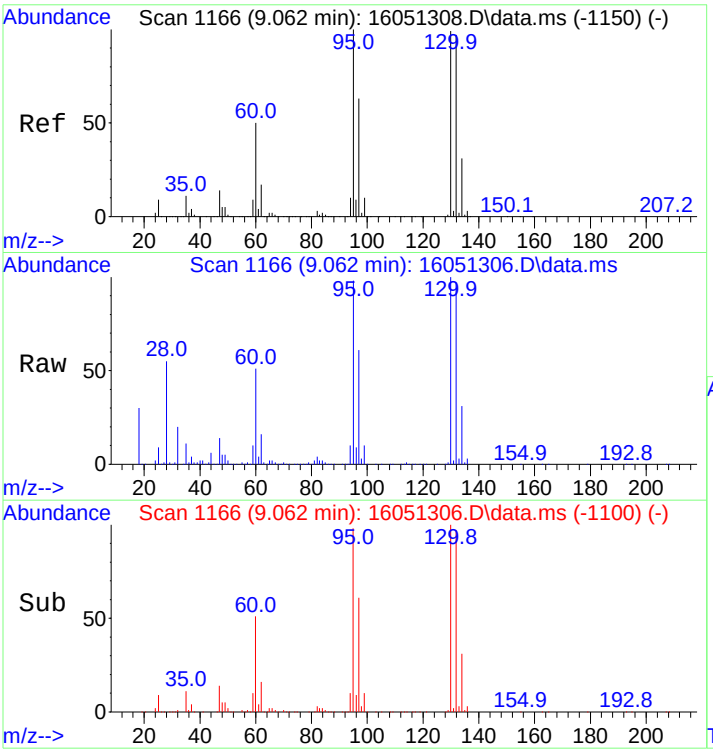


#24
1,2-Dichloroethane
Concen: 77.51 ng
RT: 7.986 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 62 Resp: 72048

Ion	Ratio	Lower	Upper
62	100		
64	31.7	24.8	37.2

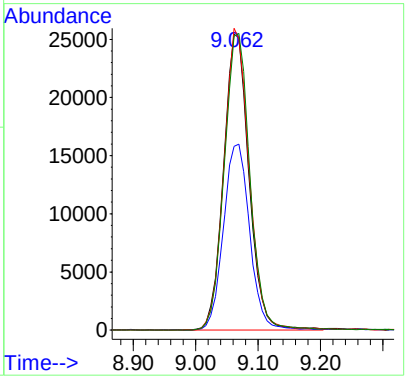


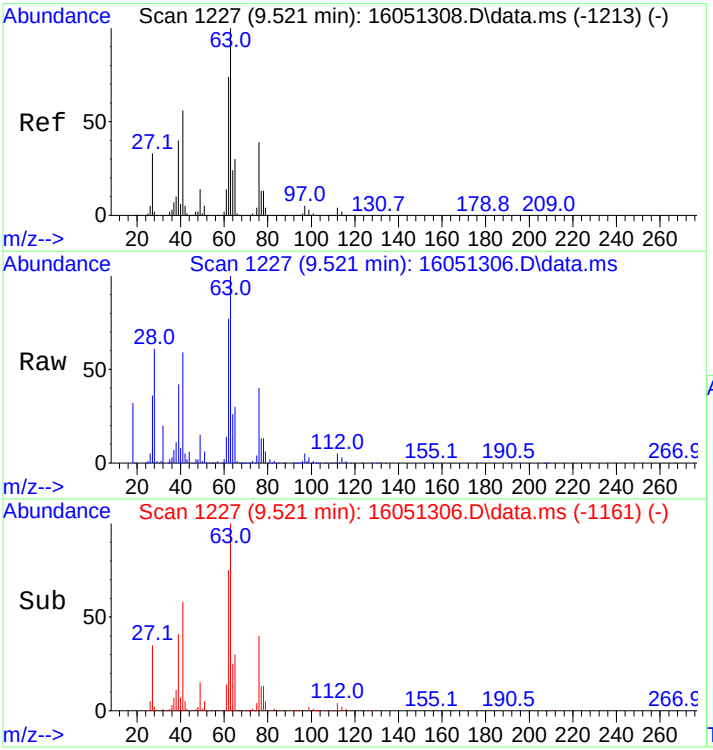


#25
Trichloroethene
Concen: 98.91 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 95 Resp: 71999

Ion	Ratio	Lower	Upper
95	100		
97	65.0	51.8	77.8
130	101.7	81.9	122.9
132	101.4	81.2	121.8

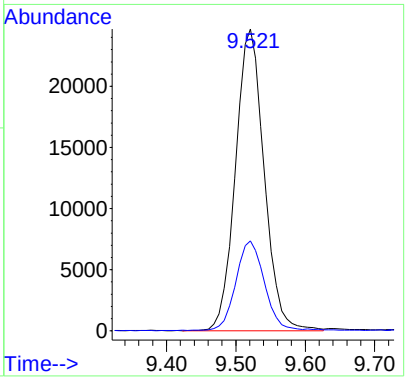


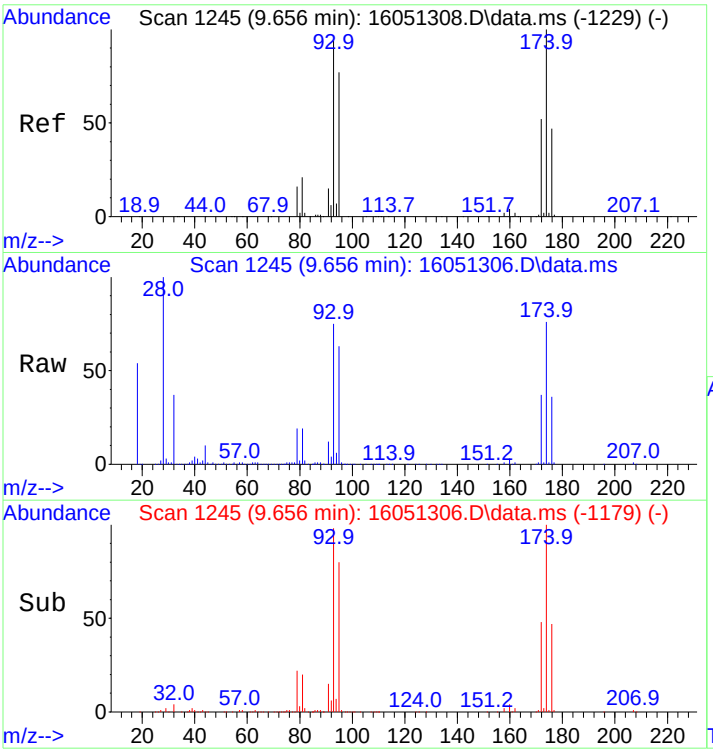


#26
1,2-Dichloropropane
Concen: 95.38 ng
RT: 9.521 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 63 Resp: 70987

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.2	36.2

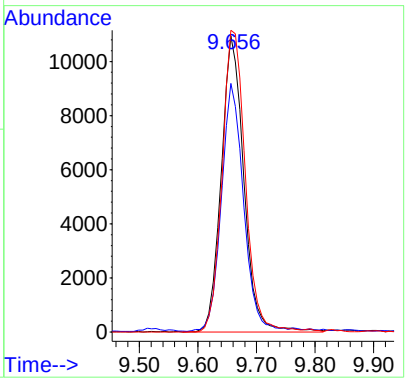


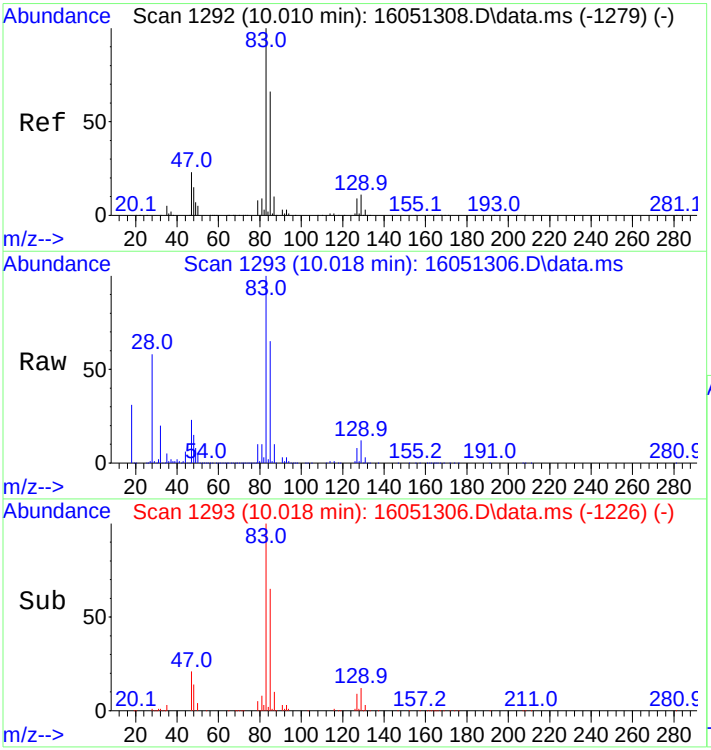


#27
Dibromomethane
Concen: 70.64 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 93 Resp: 29449

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	104.2	85.5	128.3

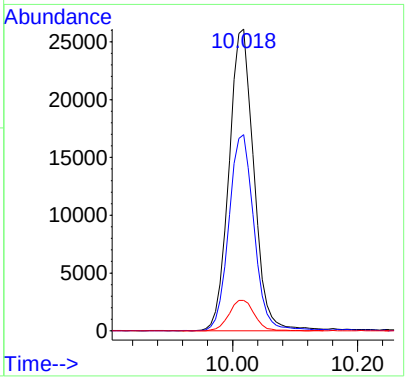


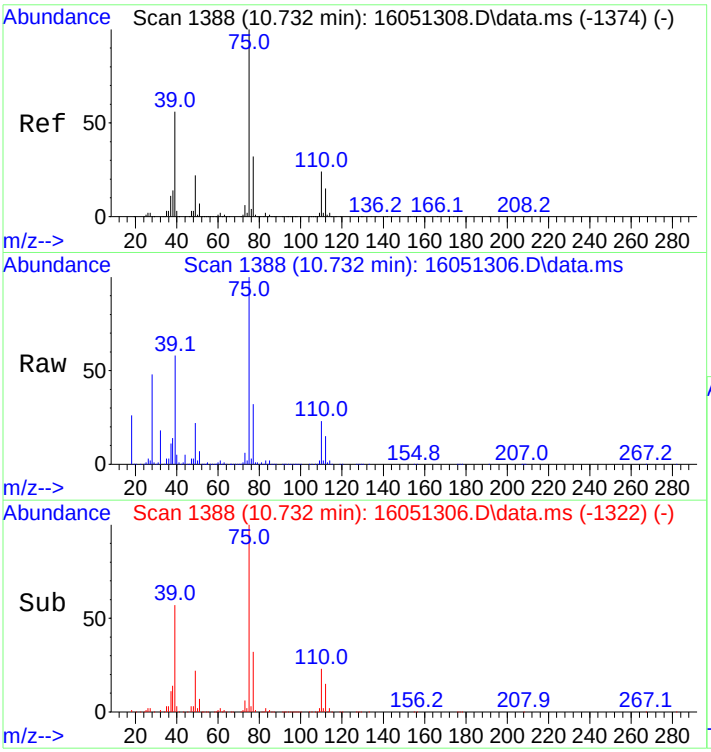


#28
Bromodichloromethane
Concen: 89.15 ng
RT: 10.018 min Scan# 1293
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 72244

Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.5	78.7
87	10.5	8.3	12.5

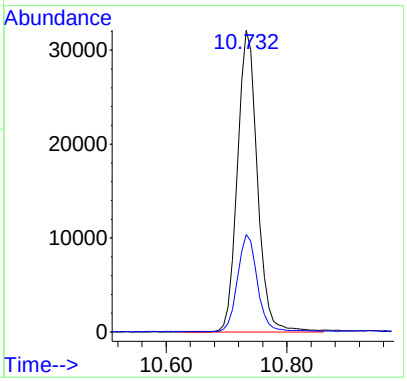


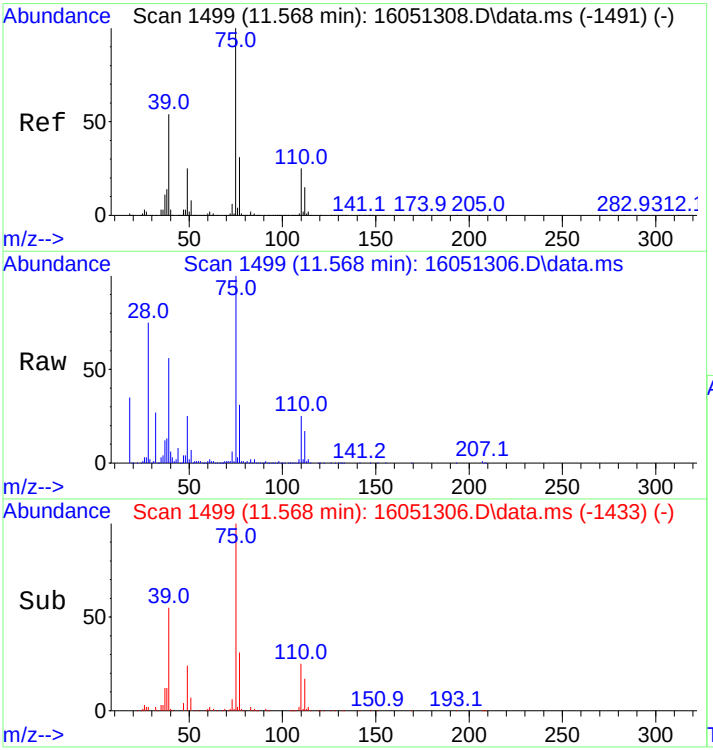


#29
cis,1,3-Dichloropropene
Concen: 88.75 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 73680

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.6	38.4

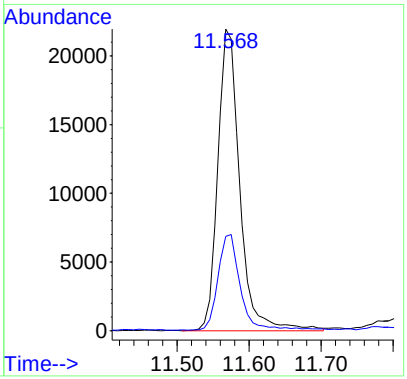


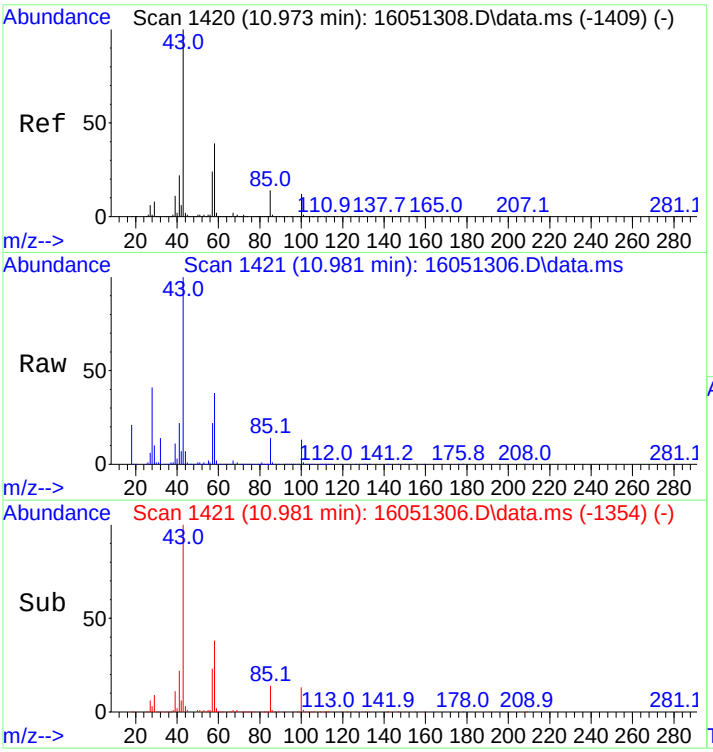


#30
trans,1,3-Dichloropropene
Concen: 82.55 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 46616

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.0	39.0

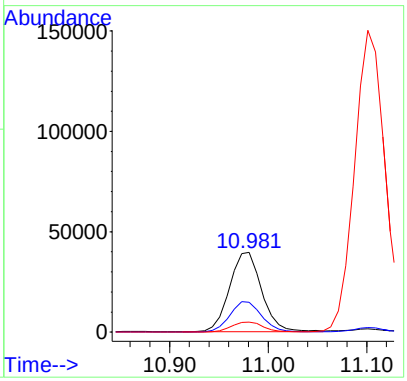


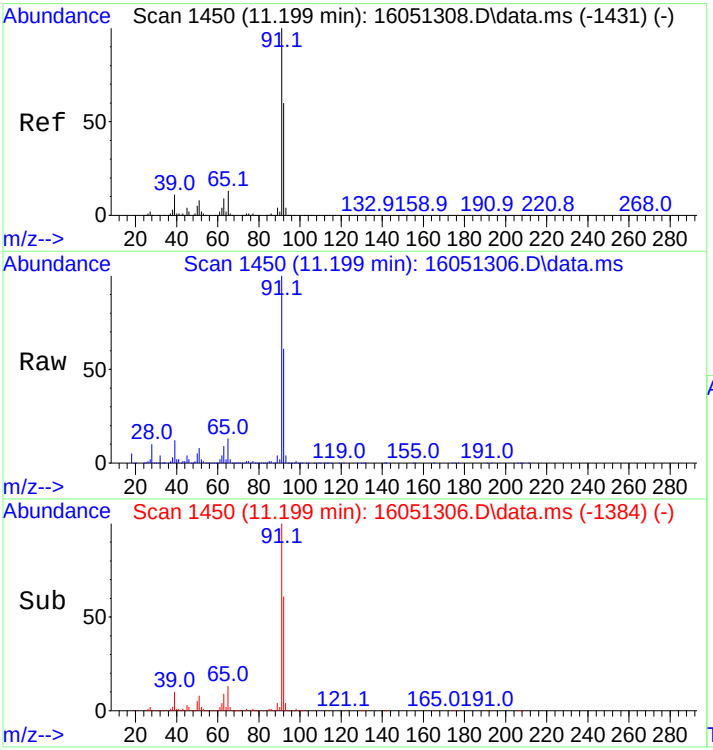


#31
4-Methyl-2-Pentanone
Concen: 81.90 ng
RT: 10.981 min Scan# 1421
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 89761

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.3	46.9
100	12.8	10.2	15.2

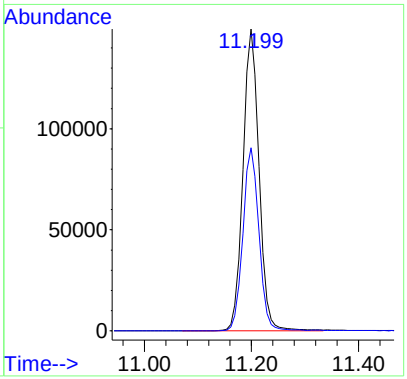


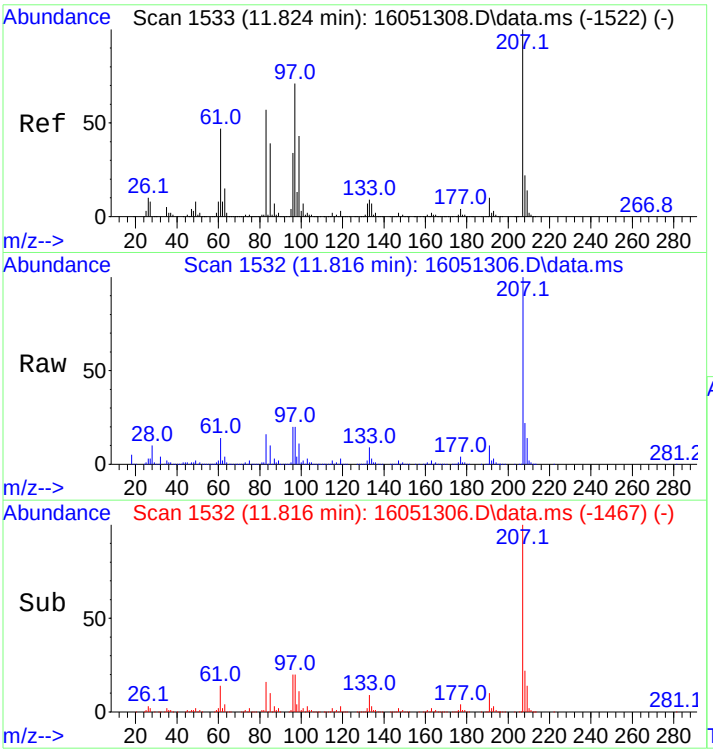


#33
Toluene
Concen: 99.27 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 311817

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.6	73.0

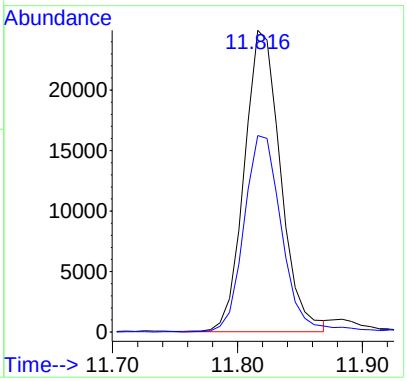


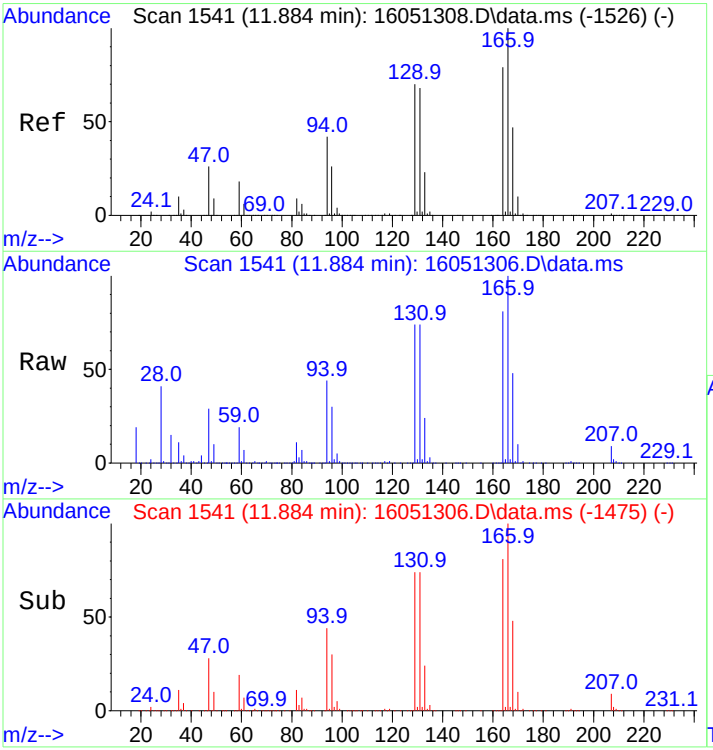


#34
1,1,2-Trichloroethane
Concen: 92.59 ng
RT: 11.816 min Scan# 1532
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 50262

Ion	Ratio	Lower	Upper
83	100		
85	67.9	54.7	82.1

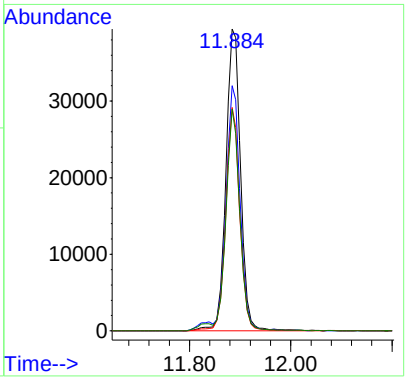


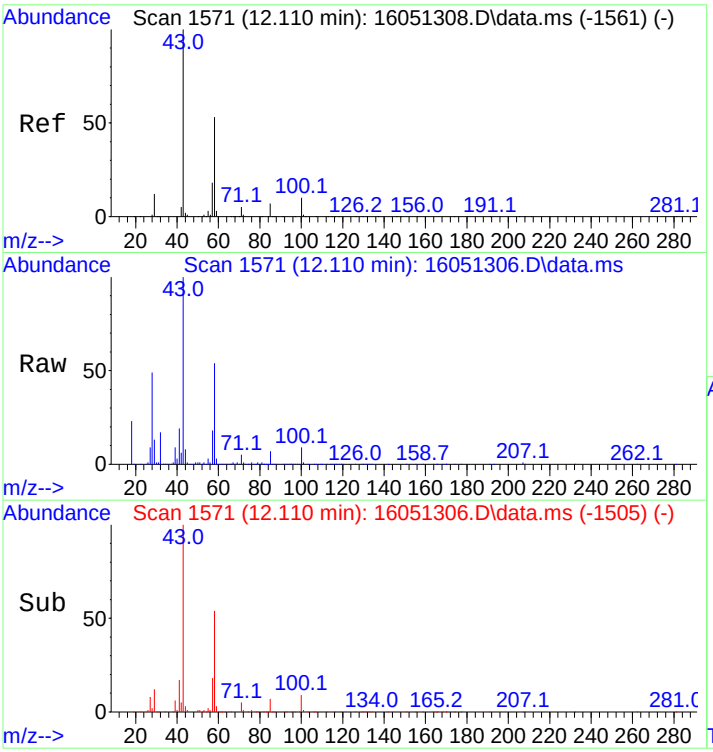


#35
Tetrachloroethene
Concen: 97.17 ng
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:166 Resp: 79941

Ion	Ratio	Lower	Upper
166	100		
164	80.8	63.2	94.8
129	70.9	55.5	83.3
131	71.6	55.2	82.8

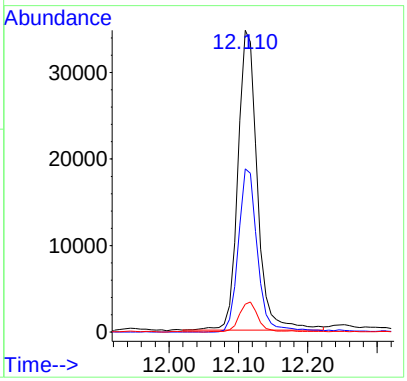


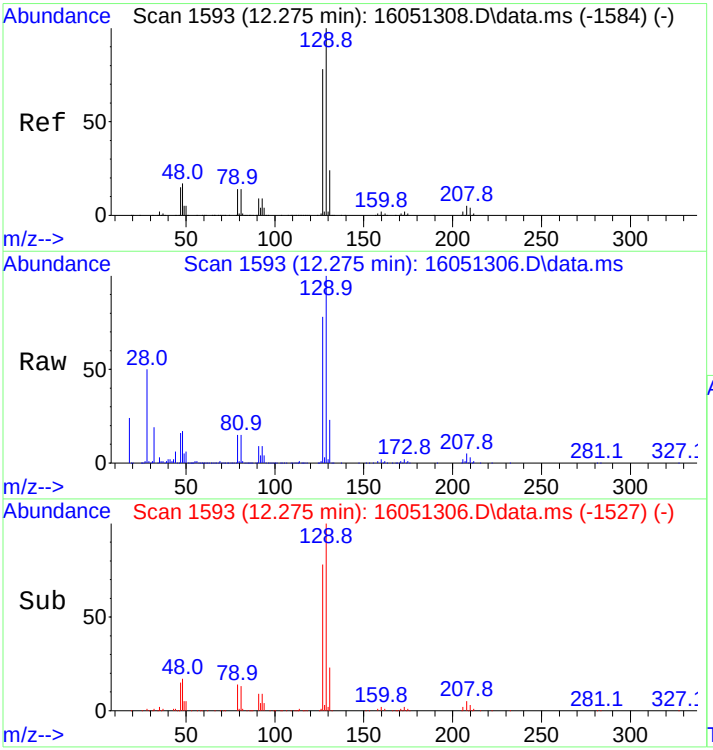


#36
2-Hexanone
Concen: 83.89 ng
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 67605

Ion	Ratio	Lower	Upper
43	100		
58	53.6	43.6	65.4
100	9.5	7.8	11.8

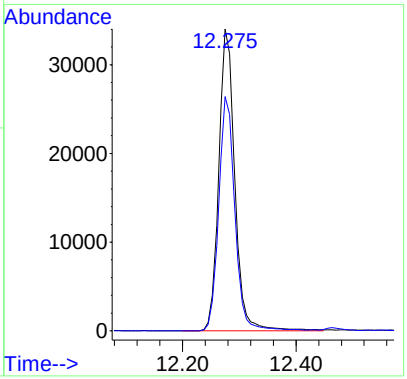


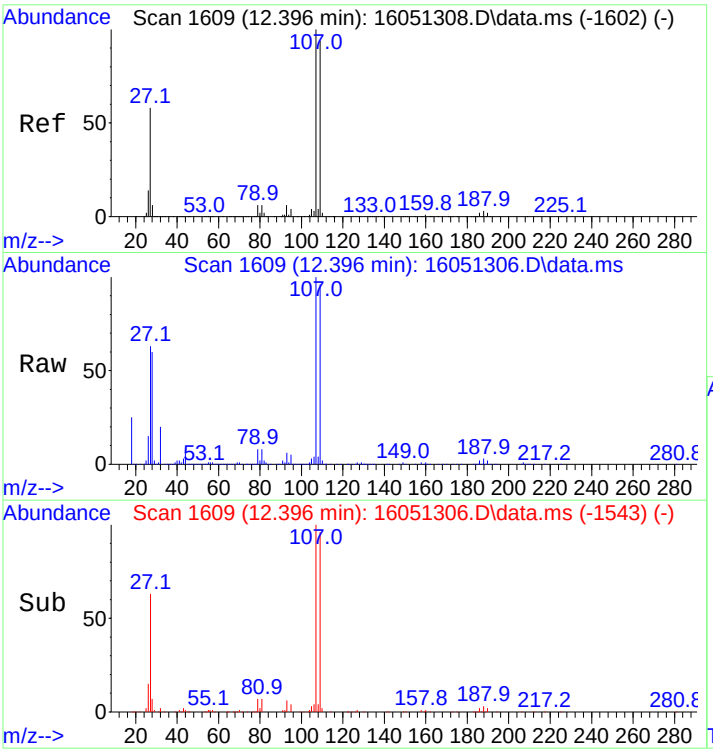


#37
Chlorodibromomethane
Concen: 90.53 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:129 Resp: 66656

Ion	Ratio	Lower	Upper
129	100		
127	78.6	62.3	93.5

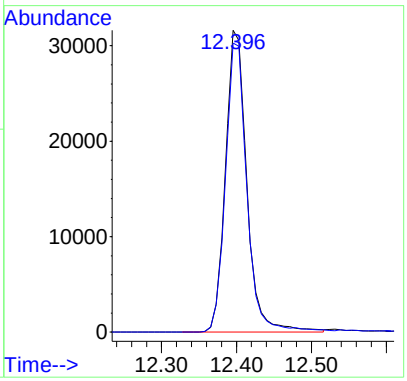


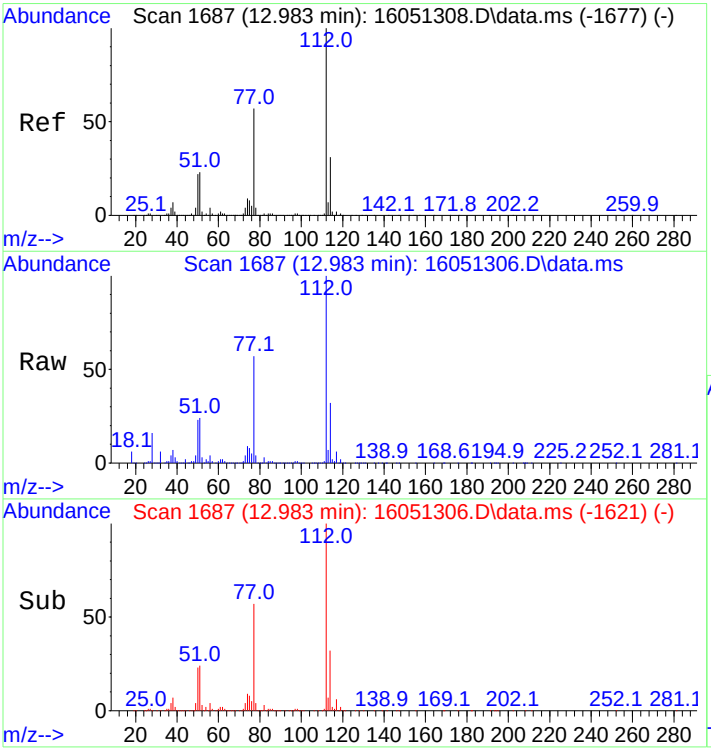


#38
Ethylene Dibromide
Concen: 93.40 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:107 Resp: 62775

Ion	Ratio	Lower	Upper
107	100		
109	96.2	74.3	111.5

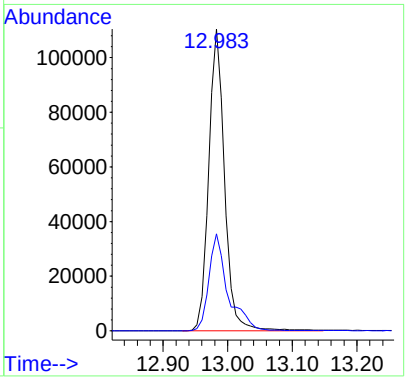


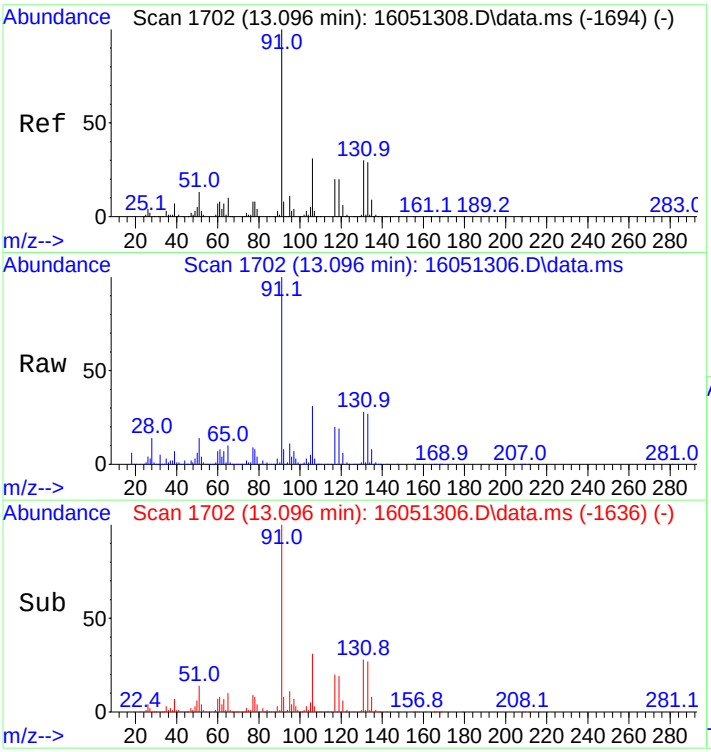


#39
Chlorobenzene
Concen: 97.97 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:112 Resp: 189104

Ion	Ratio	Lower	Upper
112	100		
114	38.6	27.5	41.3

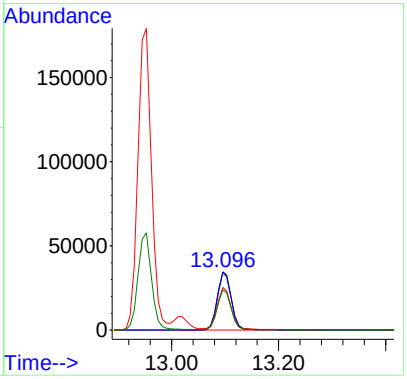


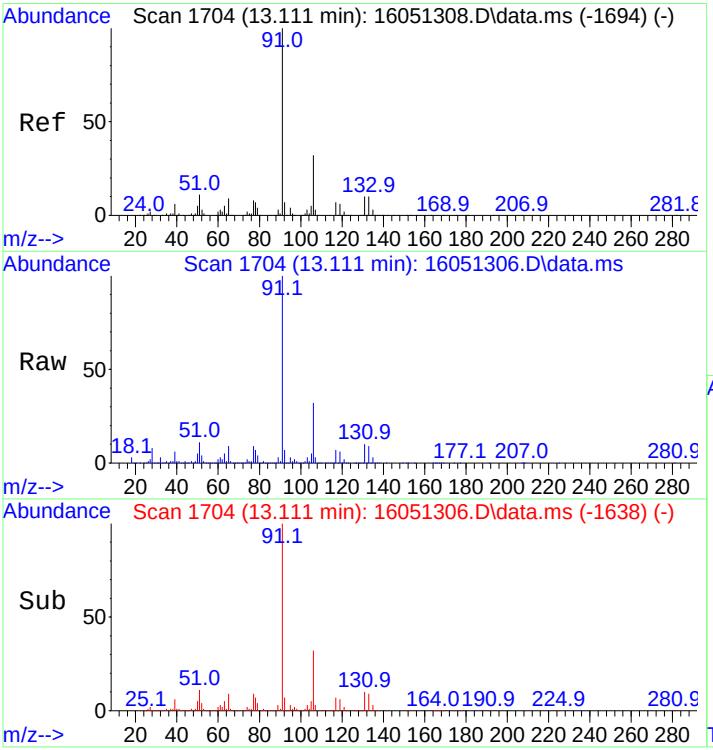


#40
1,1,1,2-Tetrachloroethane
Concen: 92.70 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:131 Resp: 63506

Ion	Ratio	Lower	Upper
131	100		
133	95.8	77.8	116.6
117	73.5	57.1	85.7
119	68.1	54.3	81.5

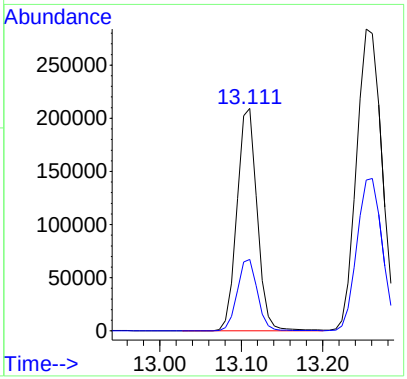


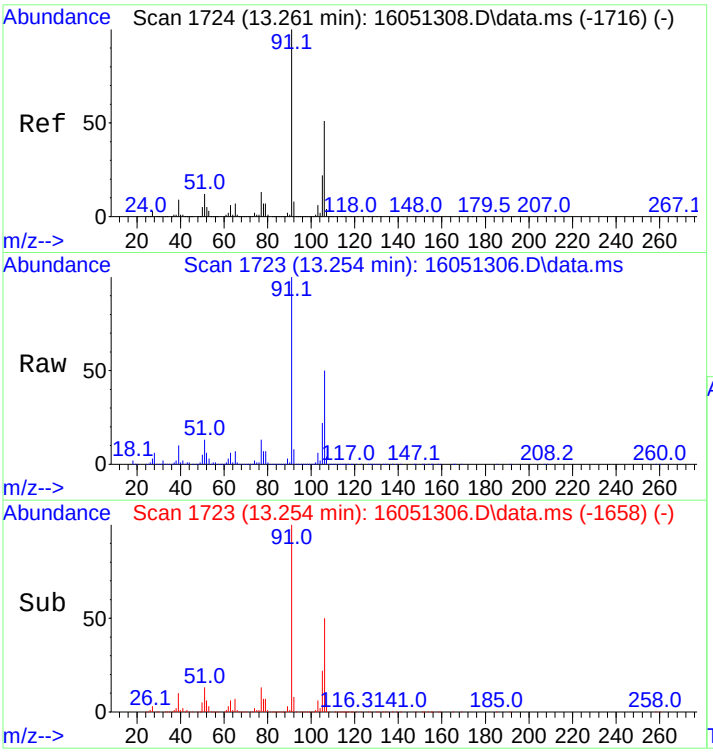


#41
Ethylbenzene
Concen: 100.57 ng
RT: 13.111 min Scan# 1704
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 358874

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.5	38.3

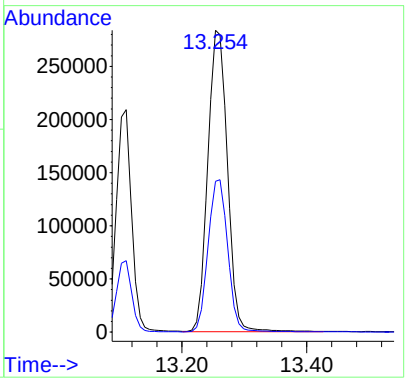


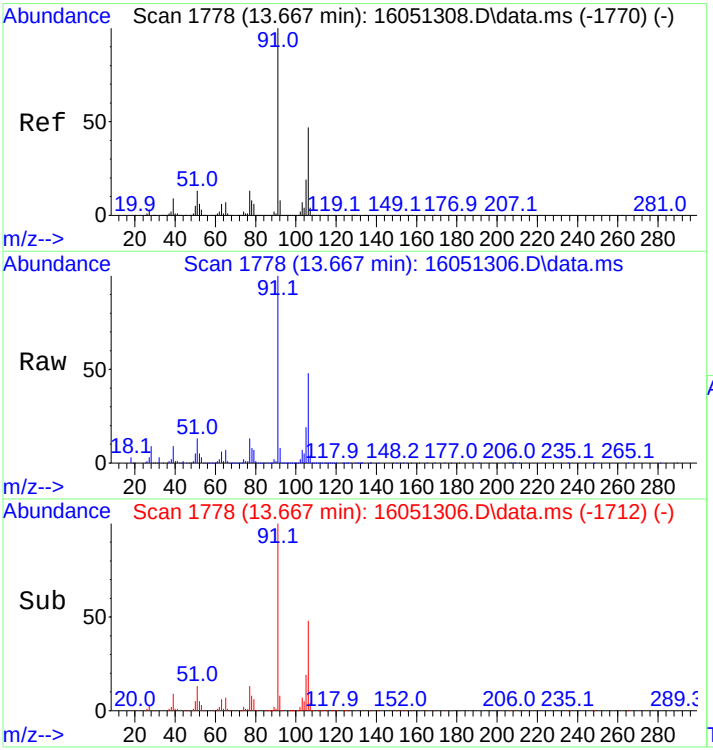


#42
M&P-Xylene
Concen: 204.48 ng
RT: 13.254 min Scan# 1723
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 620547

Ion	Ratio	Lower	Upper
91	100		
106	50.4	40.4	60.6

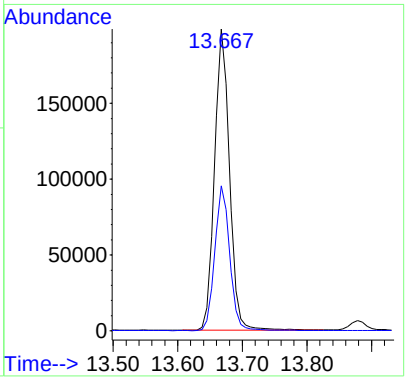


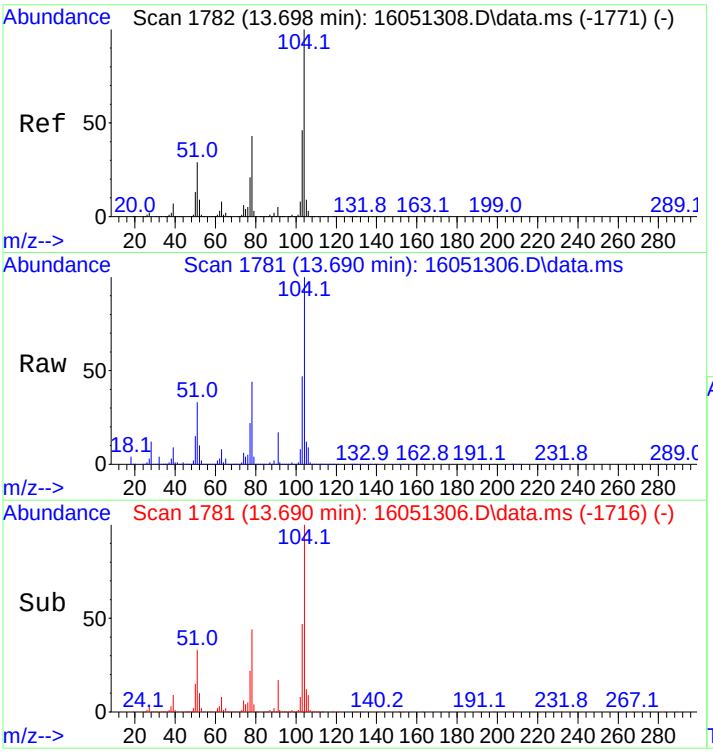


#43
O-Xylene
Concen: 101.86 ng
RT: 13.667 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 320417

Ion	Ratio	Lower	Upper
91	100		
106	47.9	38.2	57.2

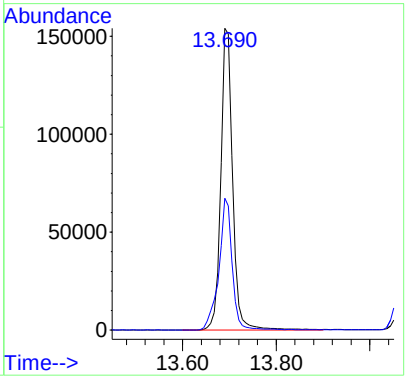


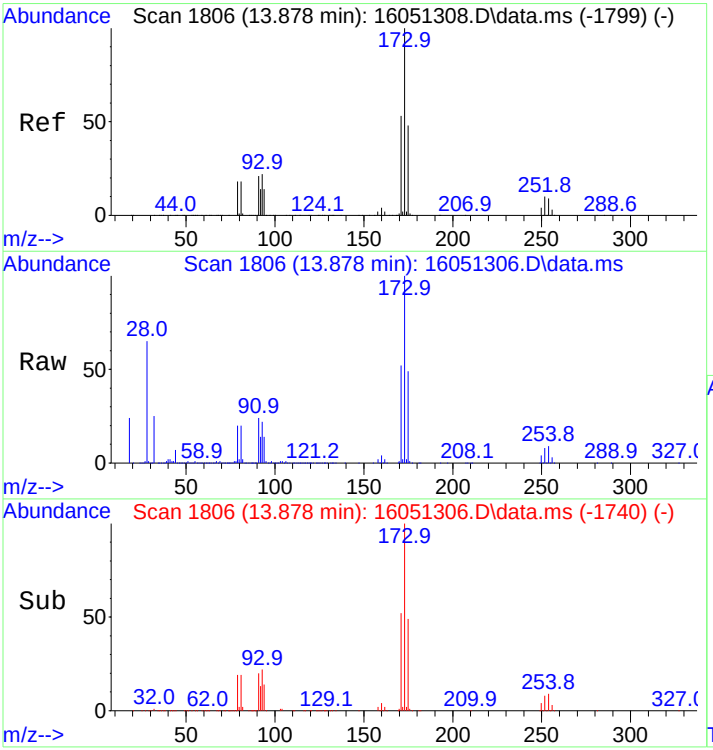


#44
Styrene
Concen: 100.92 ng
RT: 13.690 min Scan# 1781
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:104 Resp: 271000

Ion	Ratio	Lower	Upper
104	100		
78	48.8	39.8	59.6

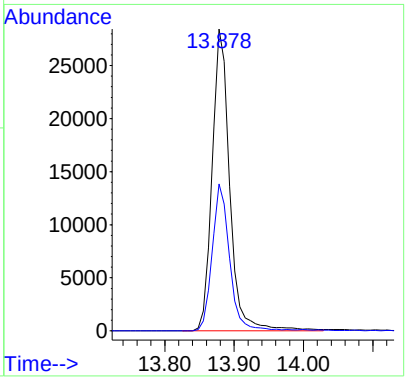


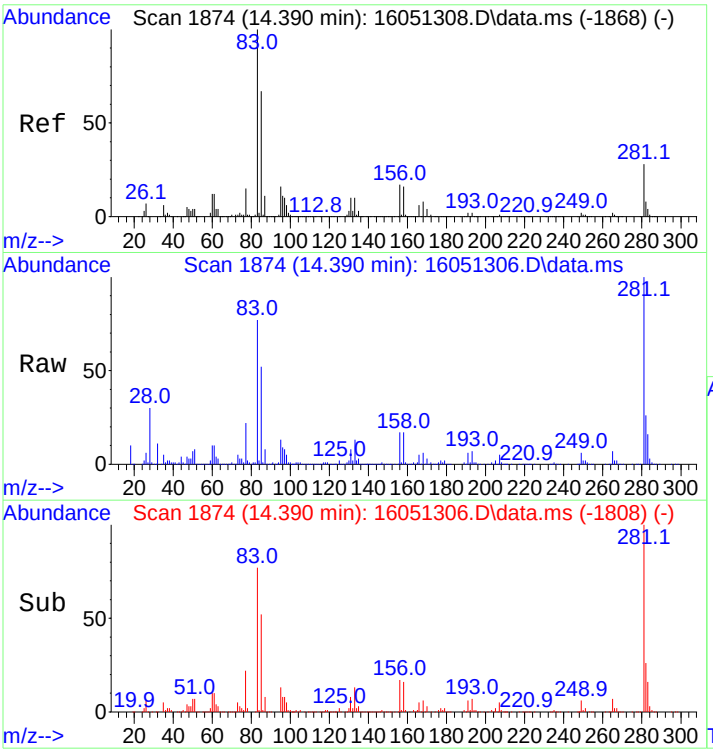


#45
Bromoform
Concen: 86.26 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:173 Resp: 50056

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.5	57.7

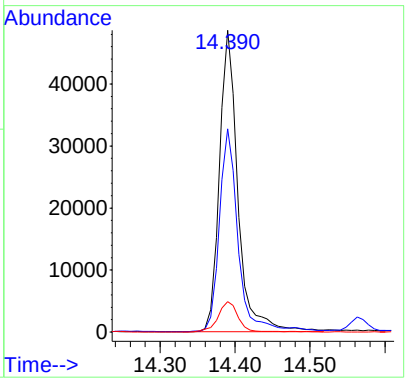


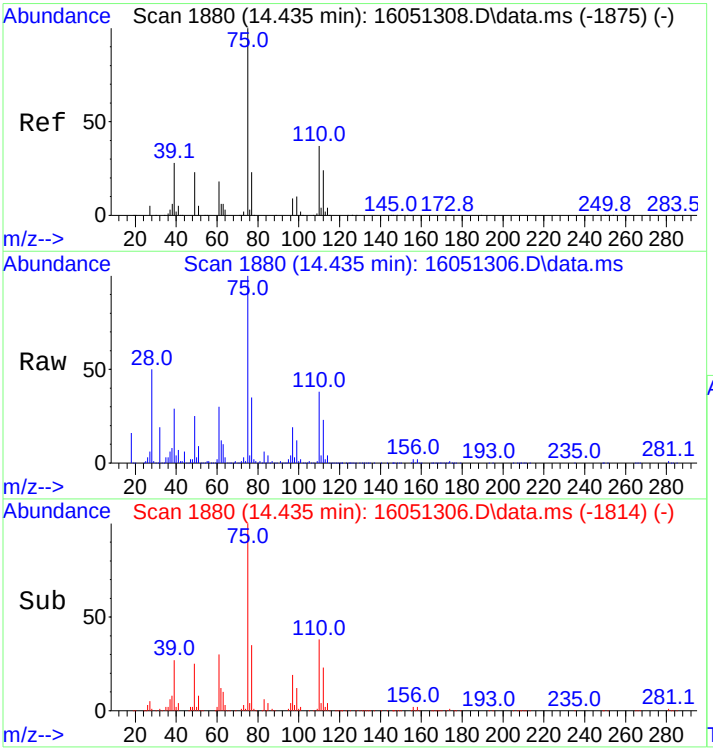


#46
1,1,2,2-Tetrachloroethane
Concen: 91.30 ng
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 83732

Ion	Ratio	Lower	Upper
83	100		
85	68.5	53.1	79.7
131	11.2	8.9	13.3

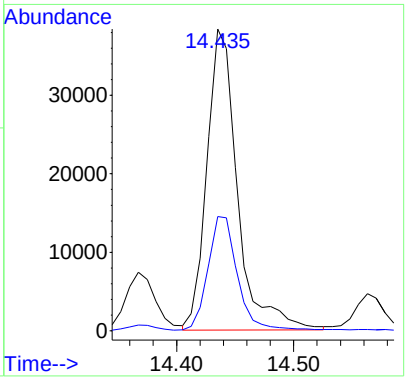


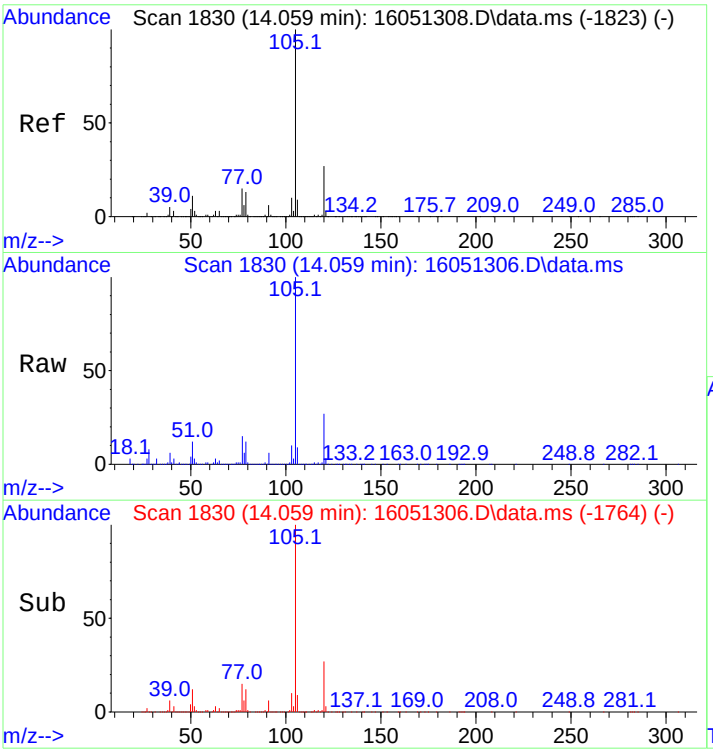


#47
1,2,3-Trichloropropane
Concen: 92.15 ng
RT: 14.435 min Scan# 1880
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 69812

Ion	Ratio	Lower	Upper
75	100		
110	37.3	30.5	45.7

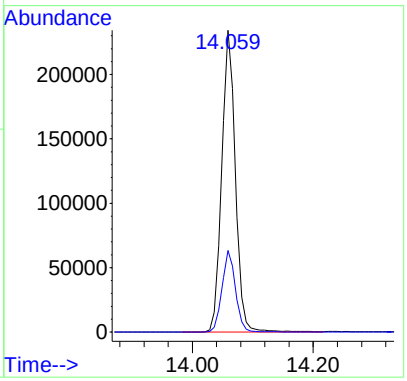


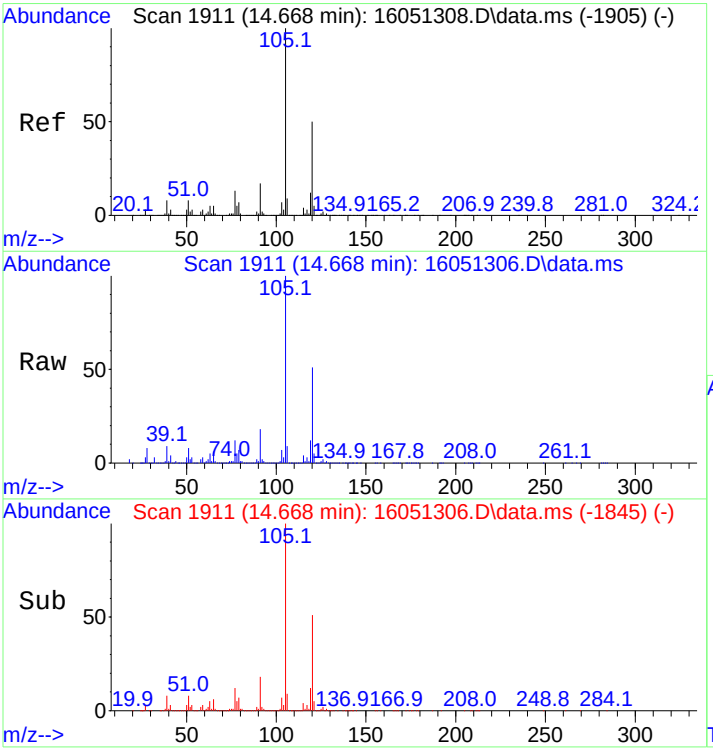


#51
Isopropylbenzene
Concen: 100.15 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 366165

Ion	Ratio	Lower	Upper
105	100		
120	26.8	21.4	32.2

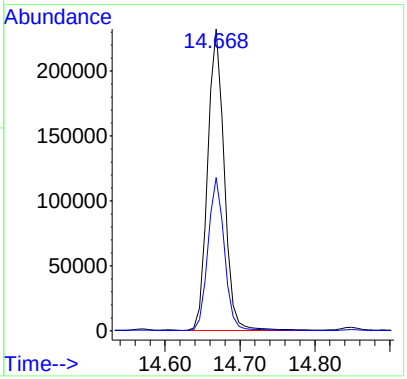


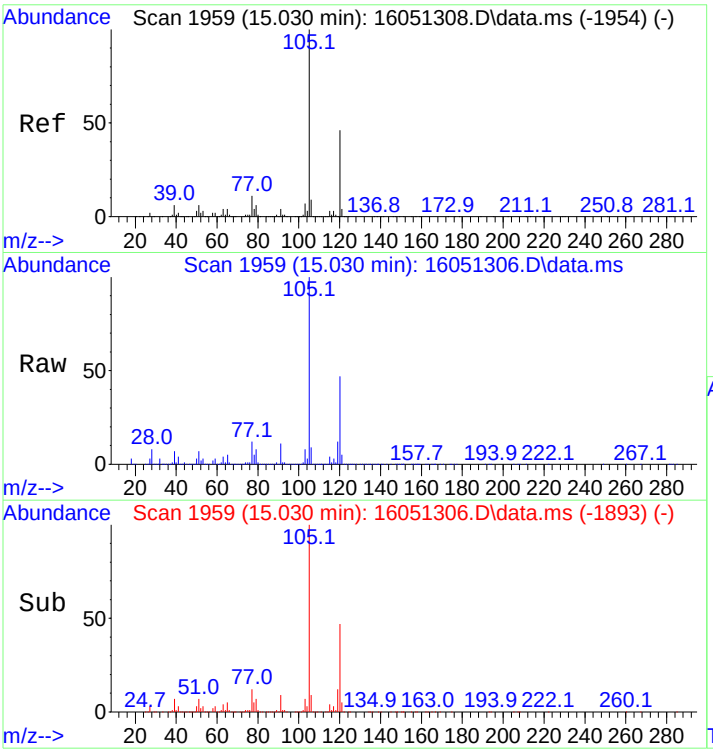


#52
1,3,5-Trimethylbenzene
Concen: 100.02 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 356396

Ion	Ratio	Lower	Upper
105	100		
120	50.2	39.9	59.9

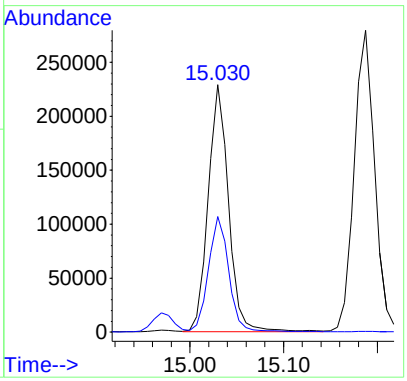


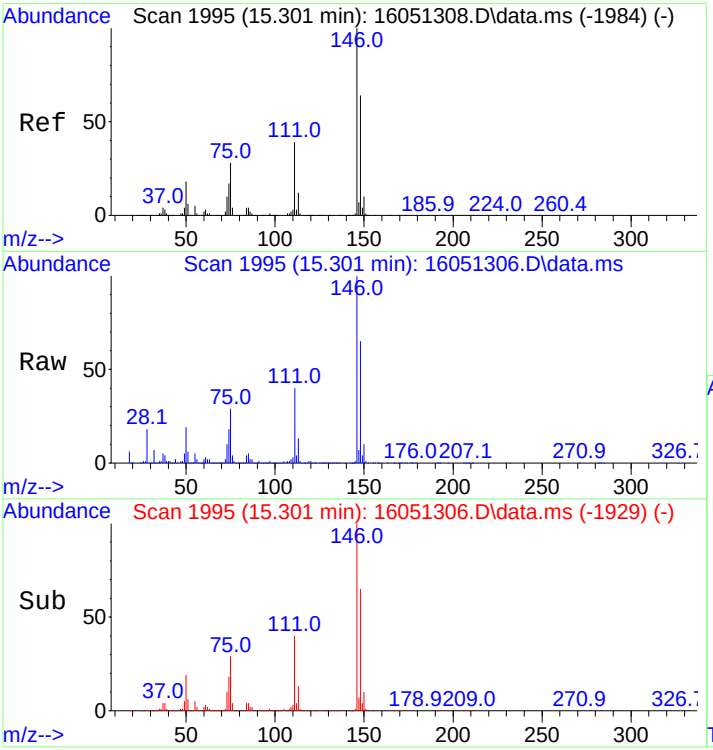


#53
1,2,4-Trimethylbenzene
Concen: 98.34 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 345983

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.5	56.3

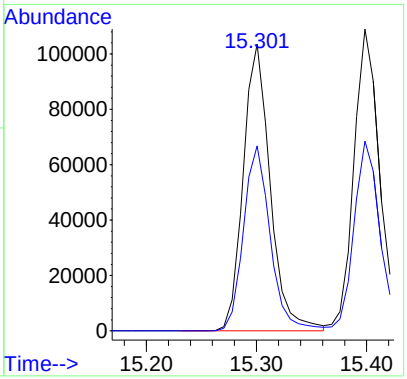


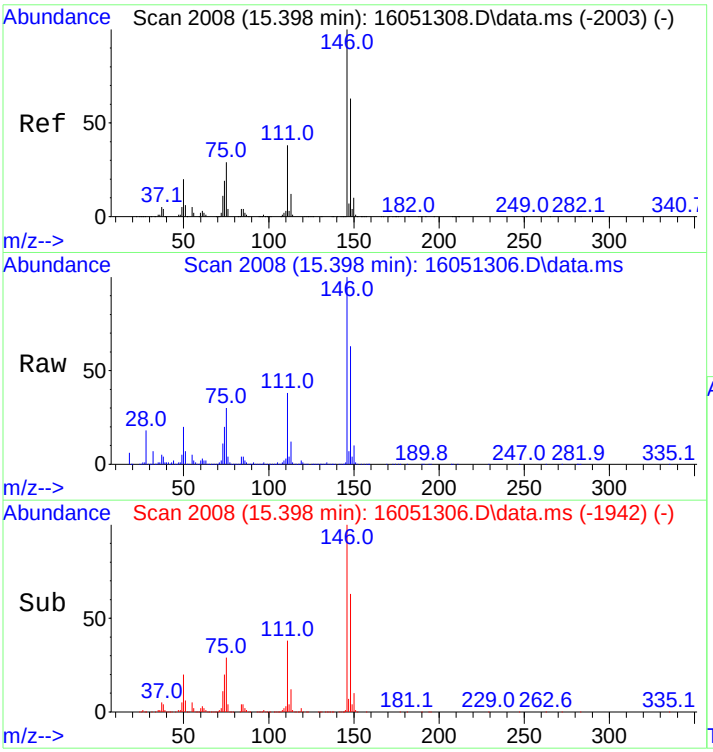


#54
1,3-Dichlorobenzene
Concen: 95.79 ng
RT: 15.301 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:146 Resp: 175886

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.6	76.0

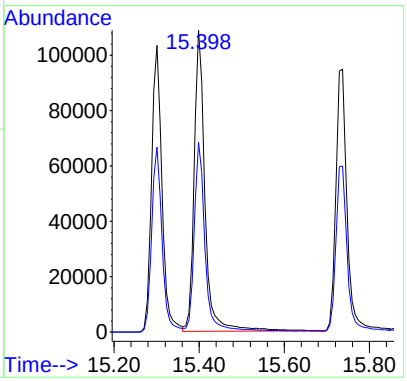


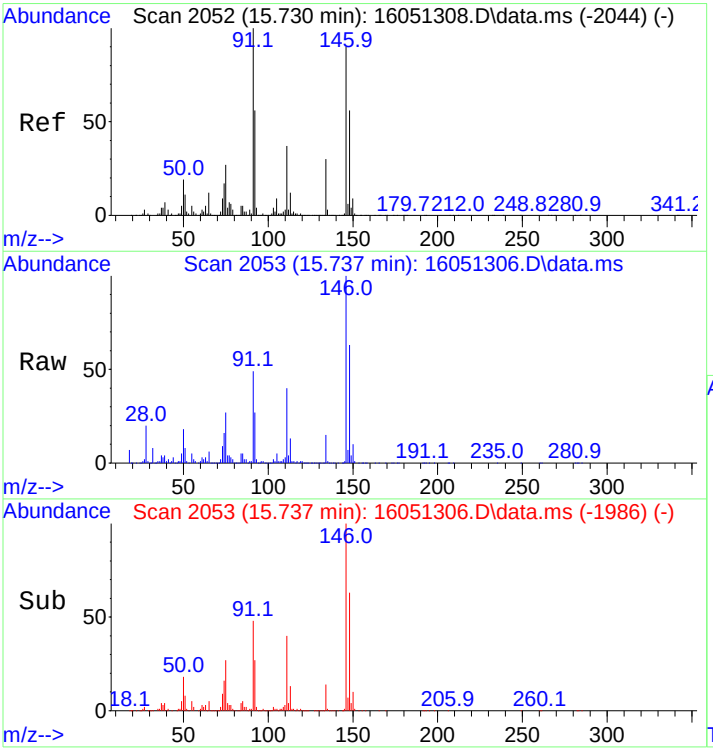


#55
1,4-Dichlorobenzene
Concen: 99.33 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:146 Resp: 192775

Ion	Ratio	Lower	Upper
146	100		
148	61.8	49.9	74.9

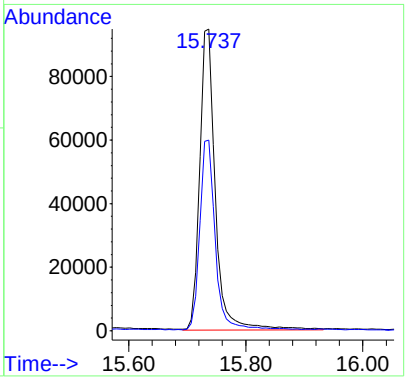


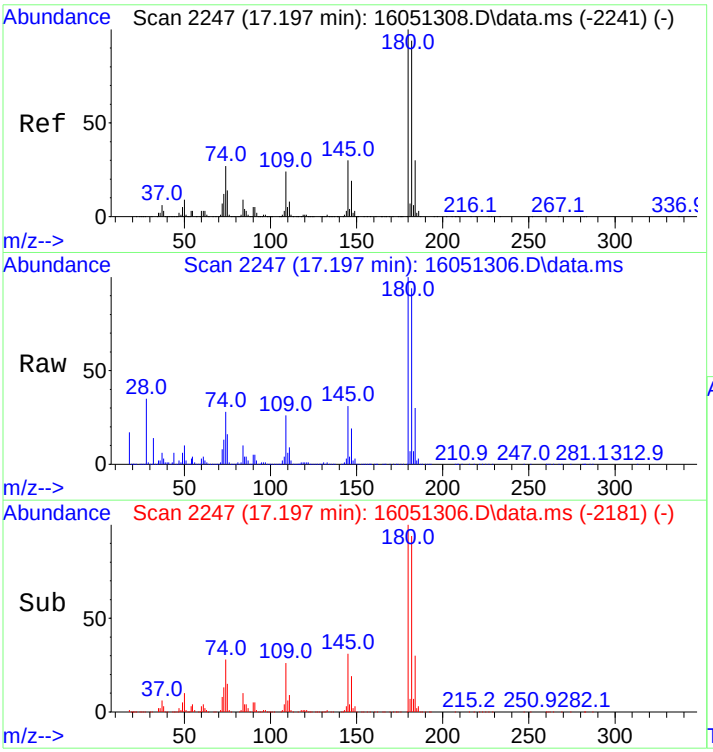


#56
1,2-Dichlorobenzene
Concen: 101.84 ng
RT: 15.737 min Scan# 2053
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:146 Resp: 176864

Ion	Ratio	Lower	Upper
146	100		
148	62.3	49.9	74.9

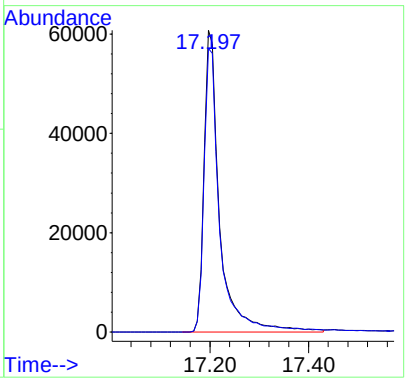


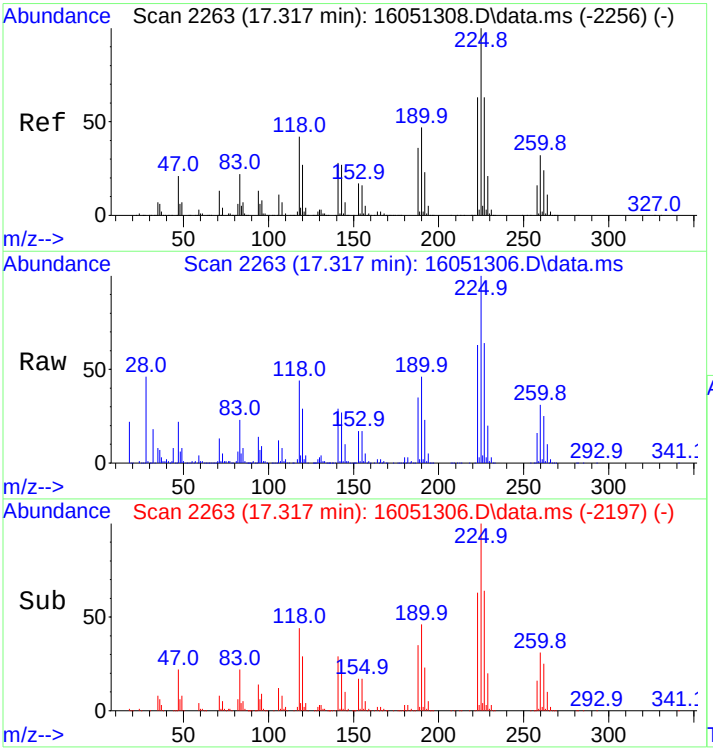


#57
1,2,4-Trichlorobenzene
Concen: 91.04 ng
RT: 17.197 min Scan# 2247
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:180 Resp: 134091

Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.0	112.4

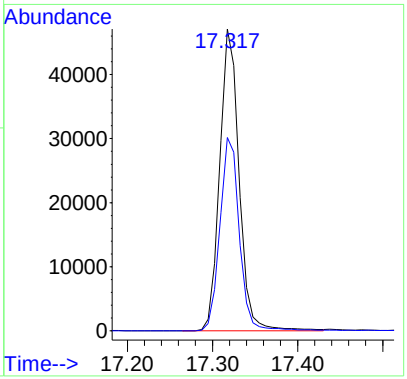


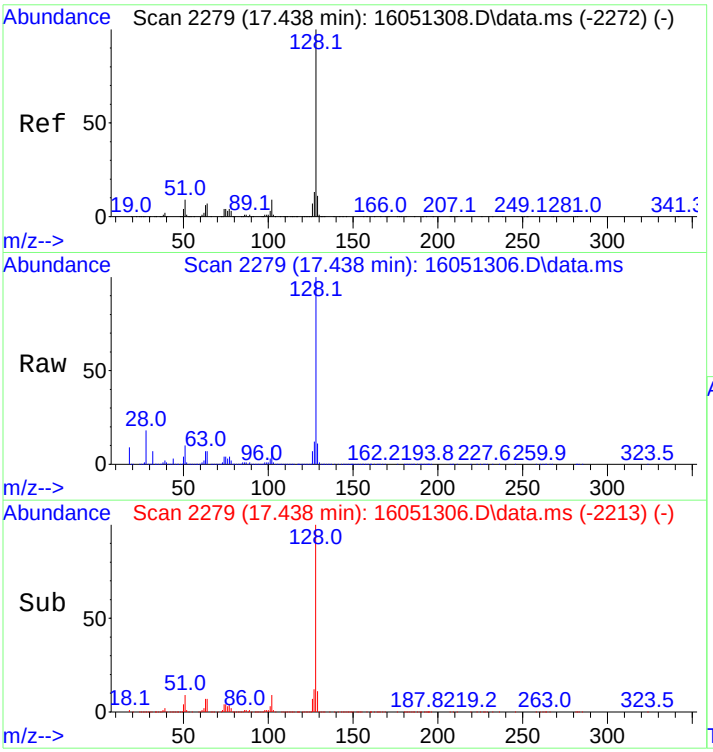


#58
Hexachlorobutadiene
Concen: 96.48 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:225 Resp: 74698

Ion	Ratio	Lower	Upper
225	100		
227	64.4	51.1	76.7

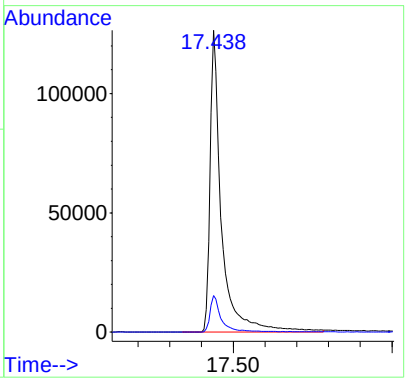


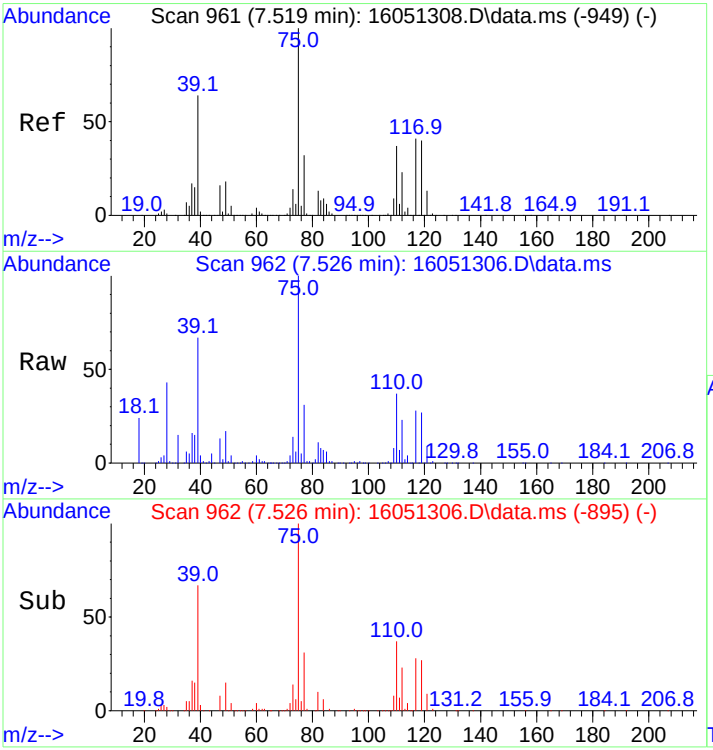


#59
Naphthalene
Concen: 87.33 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:128 Resp: 315713

Ion	Ratio	Lower	Upper
128	100		
127	11.7	9.8	14.8

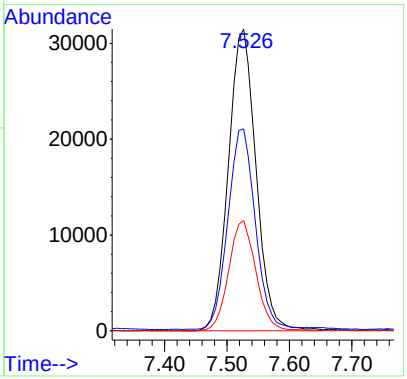


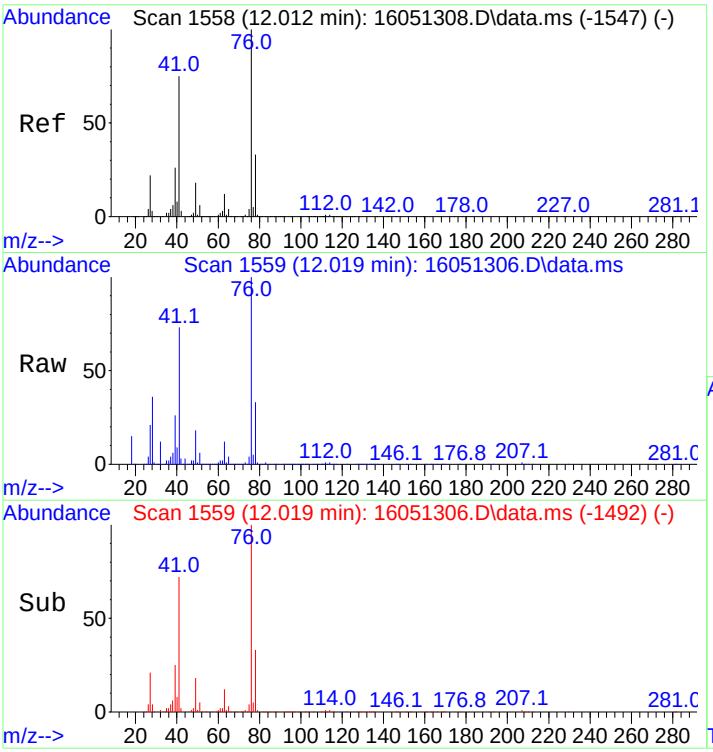


#60
1,1-Dichloropropene
Concen: 96.69 ng
RT: 7.526 min Scan# 962
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 97323

Ion	Ratio	Lower	Upper
75	100		
39	66.7	51.8	77.6
110	36.0	29.3	43.9

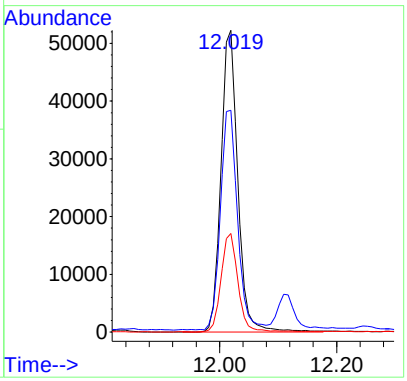


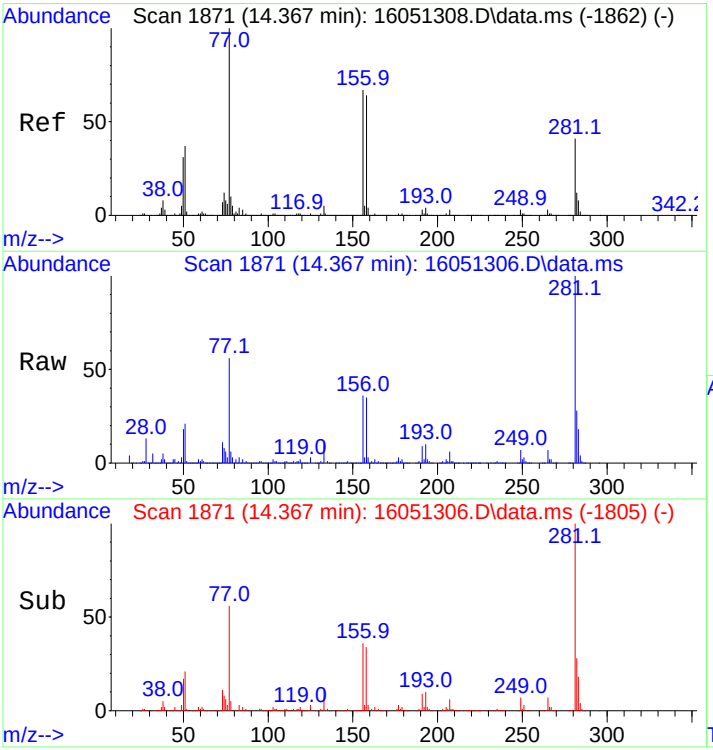


#61
1,3-Dichloropropane
Concen: 93.01 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 76 Resp: 104409

Ion	Ratio	Lower	Upper
76	100		
41	73.8	58.2	87.4
78	32.7	26.1	39.1

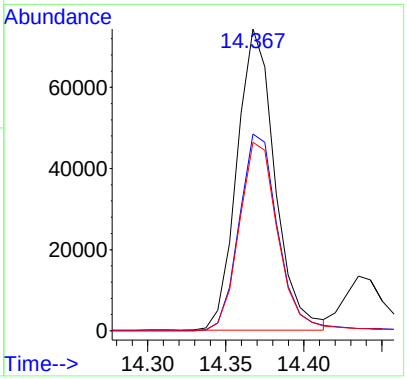


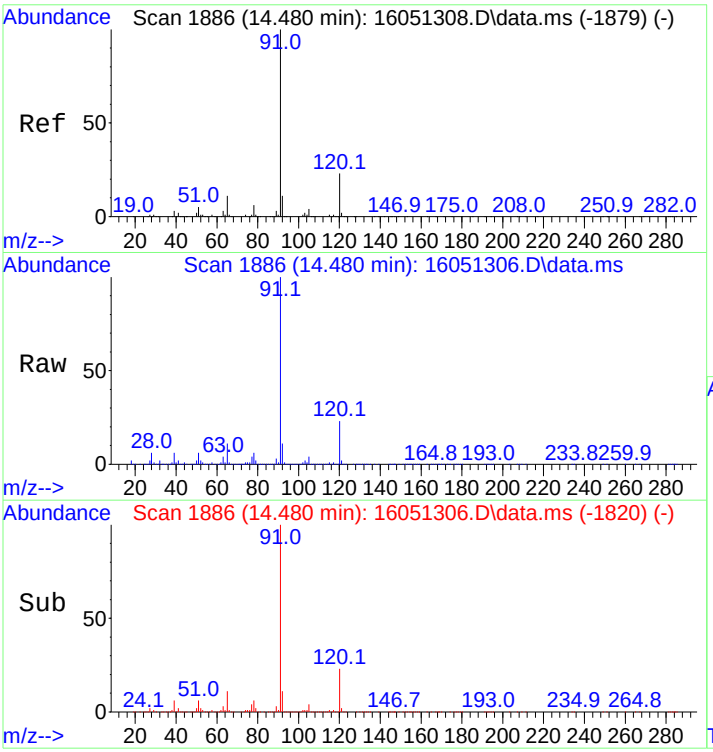


#62
Bromobenzene
Concen: 96.40 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 77 Resp: 125421

Ion	Ratio	Lower	Upper
77	100		
156	68.3	55.0	82.4
158	65.3	53.3	79.9

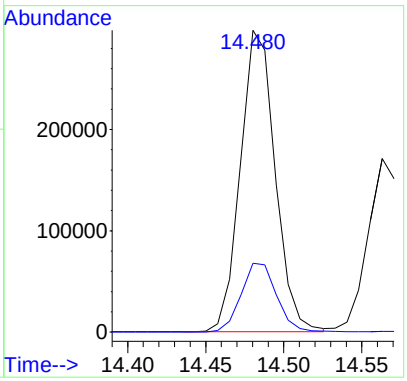


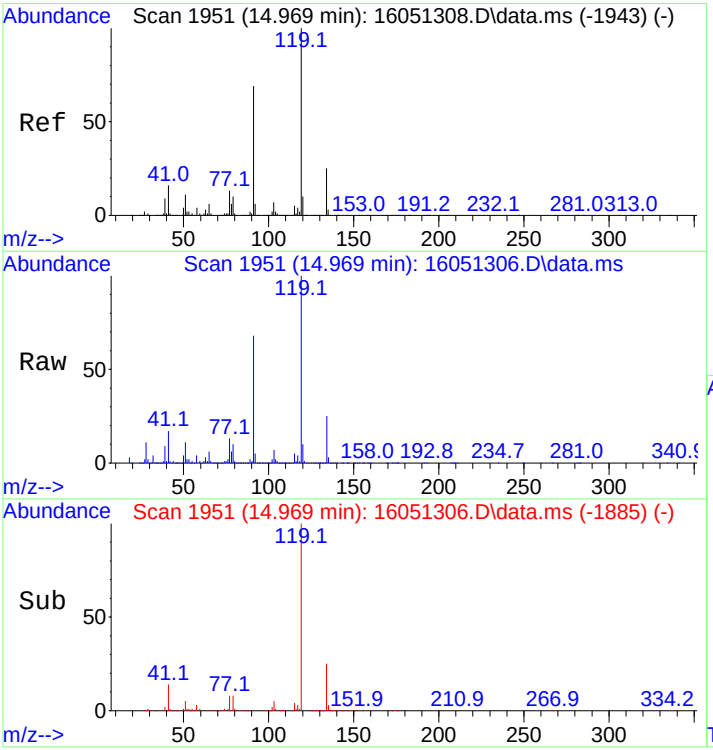


#63
n-Propylbenzene
Concen: 99.79 ng
RT: 14.480 min Scan# 1886
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 461715

Ion	Ratio	Lower	Upper
91	100		
120	23.4	18.6	28.0

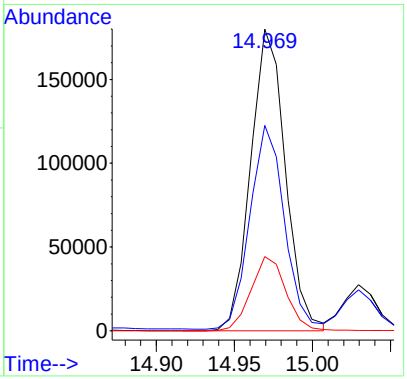


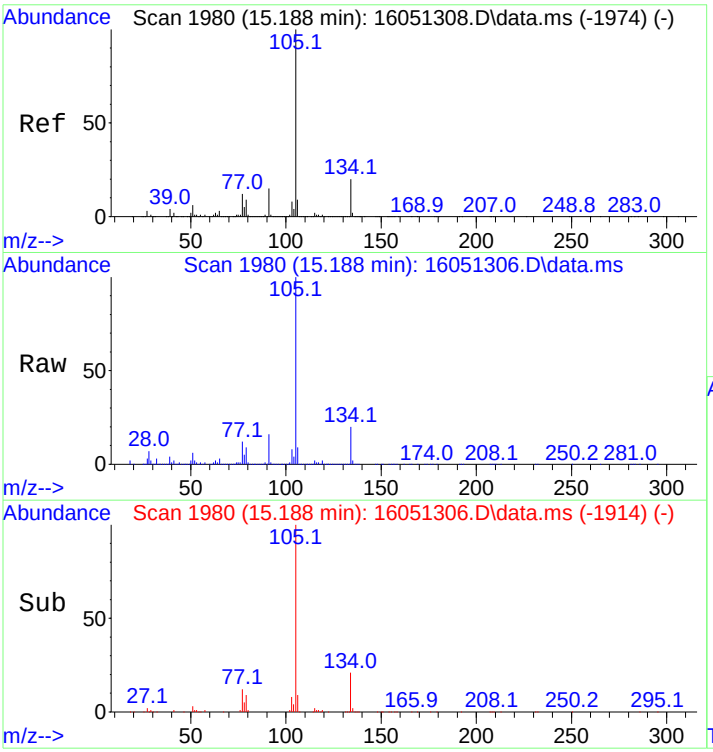


#64
tert-Butylbenzene
Concen: 100.51 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:119 Resp: 278375

Ion	Ratio	Lower	Upper
119	100		
91	67.0	54.0	81.0
134	25.1	19.9	29.9

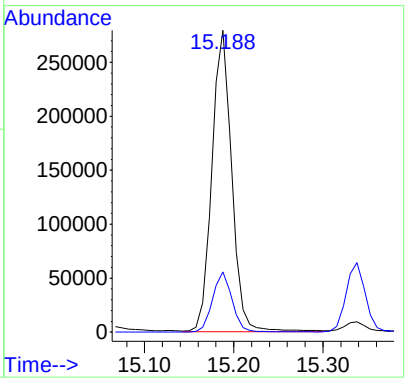


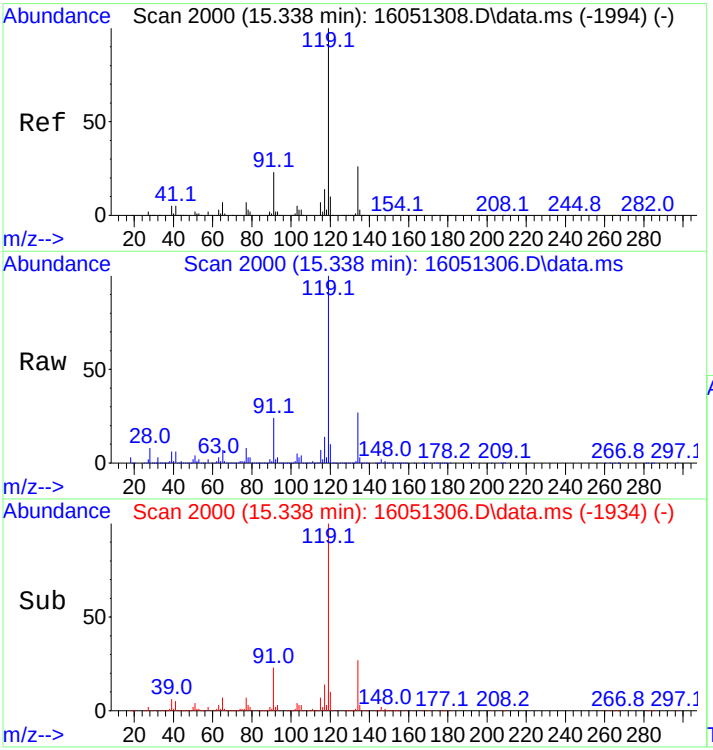


#65
sec-Butylbenzene
Concen: 101.06 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 431349

Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.7	23.5

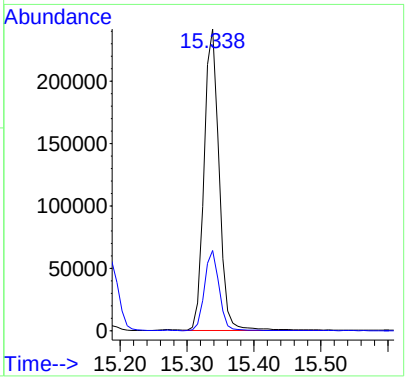


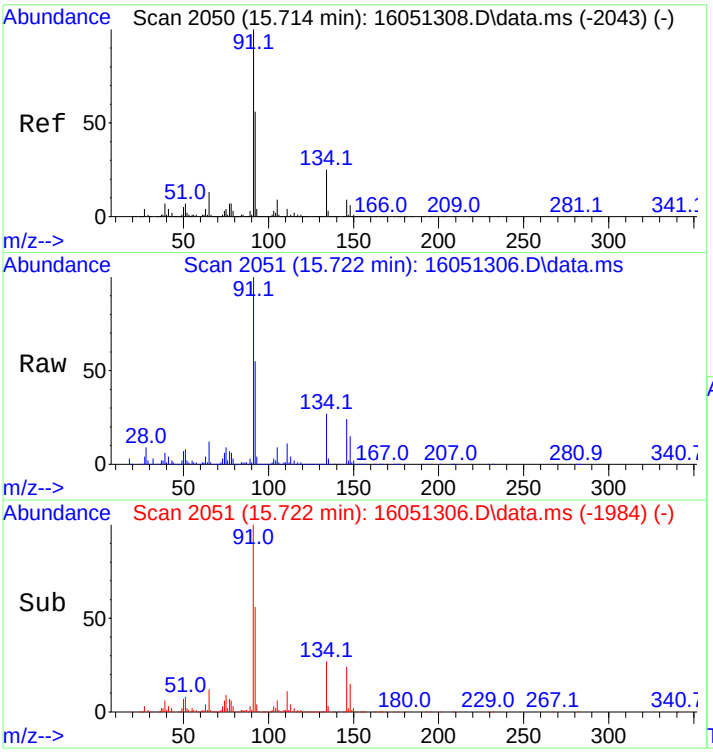


#66
p-Isopropyltoluene
Concen: 100.57 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:119 Resp: 378421

Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.6	31.0

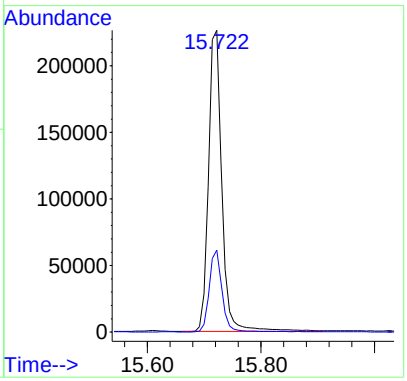


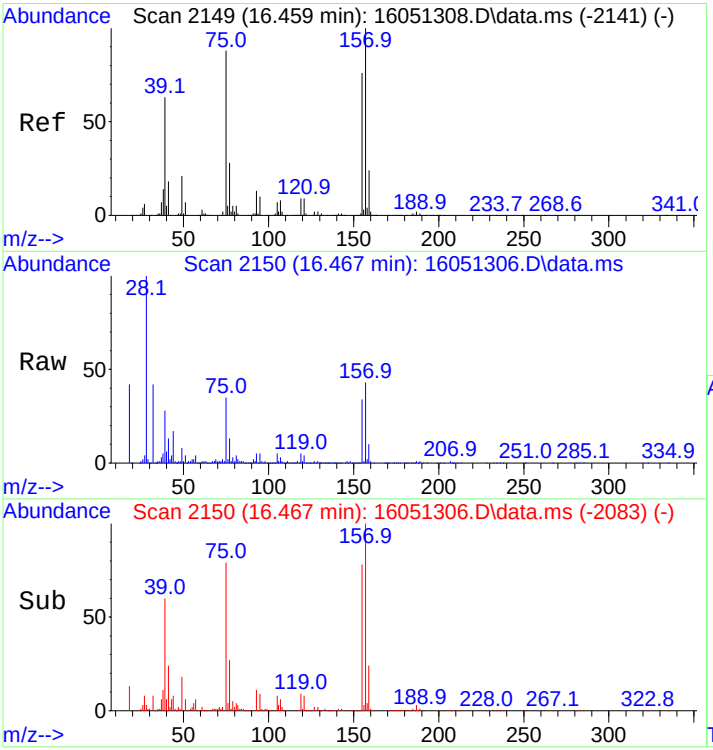


#67
n-Butylbenzene
Concen: 101.30 ng
RT: 15.722 min Scan# 2051
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 368507

Ion	Ratio	Lower	Upper
91	100		
134	26.2	21.0	31.6

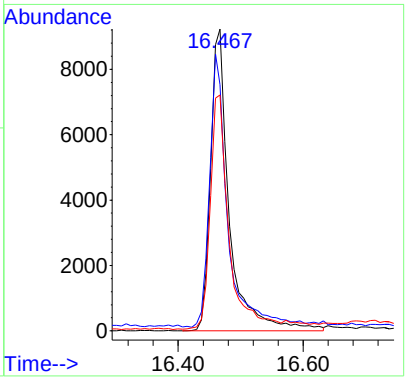




#68
1,2-Dibromo-3-chloropropane
Concen: 85.06 ng
RT: 16.467 min Scan# 2150
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:157 Resp: 19430

Ion	Ratio	Lower	Upper
157	100		
75	87.3	68.6	103.0
155	77.9	62.2	93.2



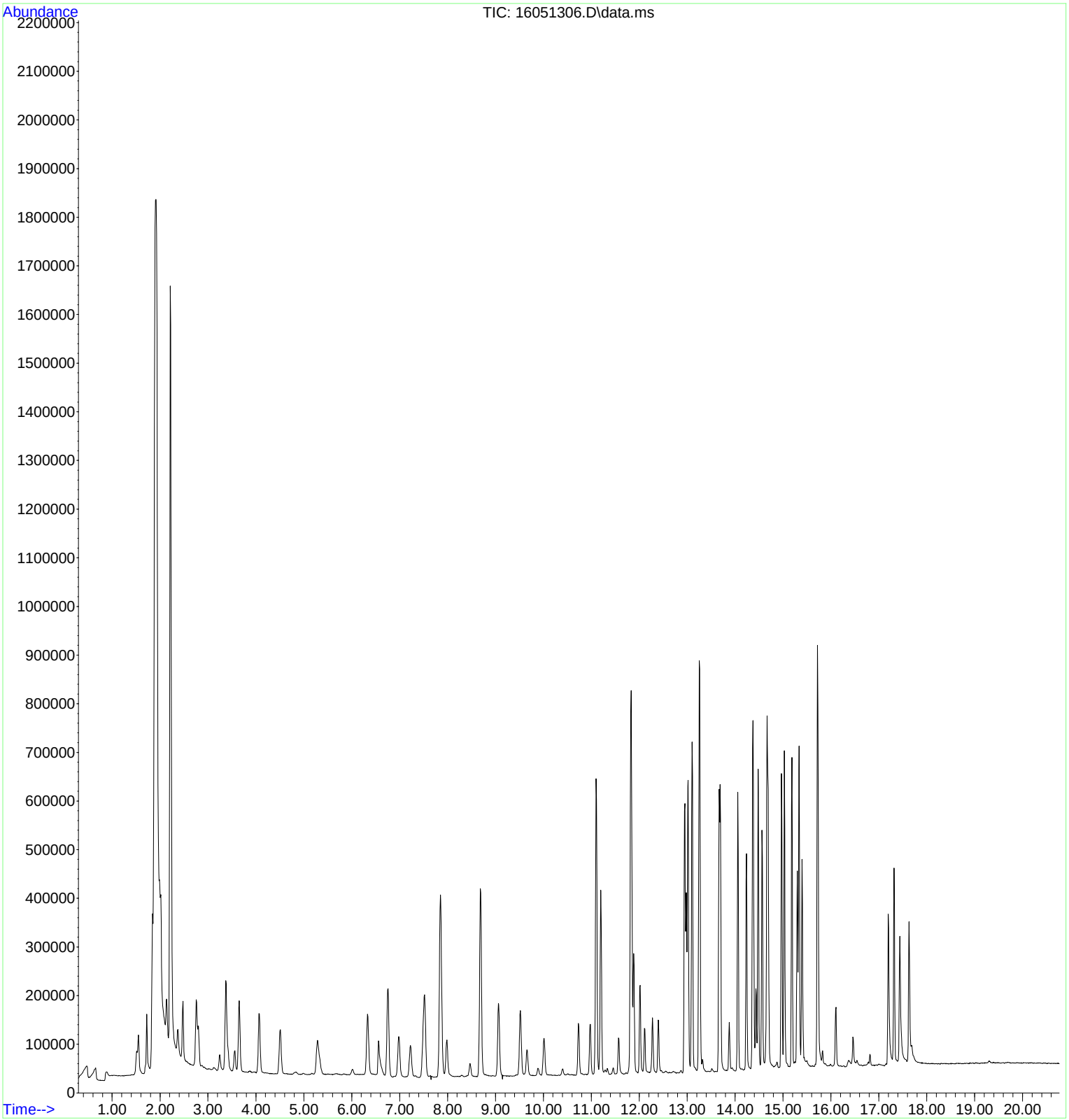
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

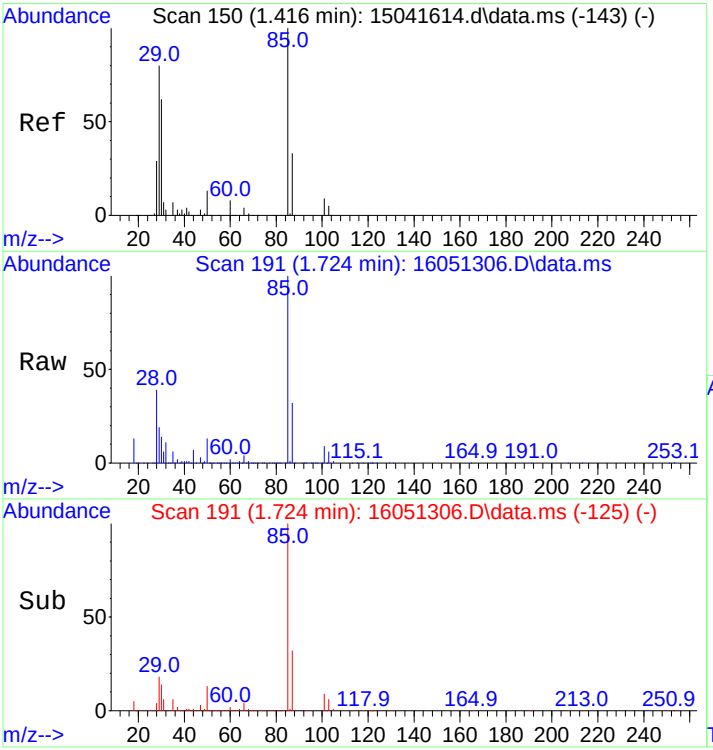
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051306.D
Acq On : 13 May 2016 1:51 pm
Operator : SG Instrument MSD-3
Sample : 100NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:37:48 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:34:46 2016
Response via : Initial Calibration

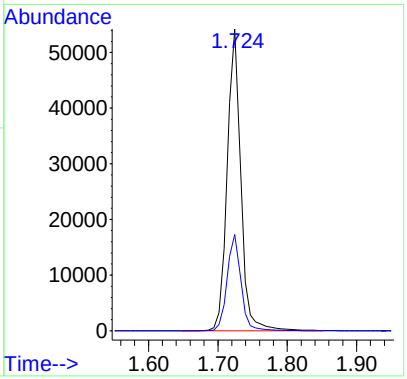


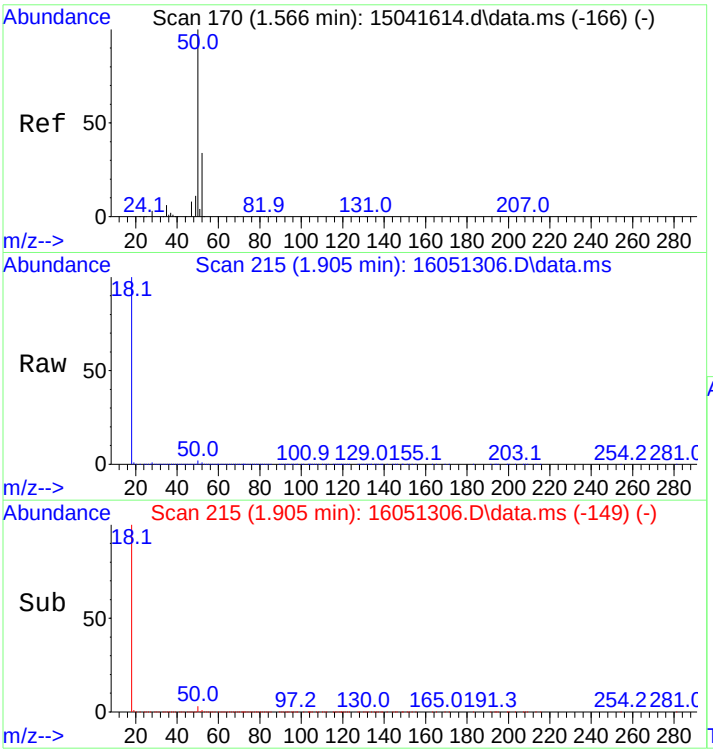


#2
Dichlorodifluoromethane
Concen: 118.68 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 85 Resp: 74319

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.0	39.0

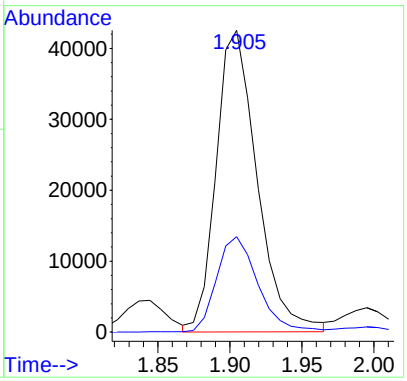


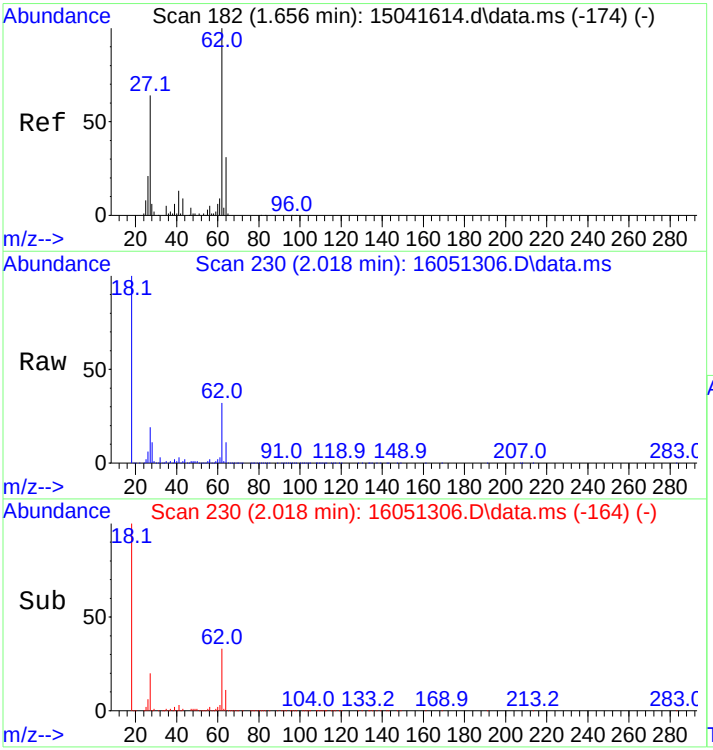


#3
Chloromethane
Concen: 113.10 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 50 Resp: 83996

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.0	39.0

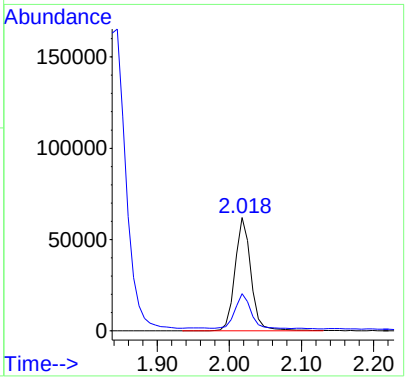


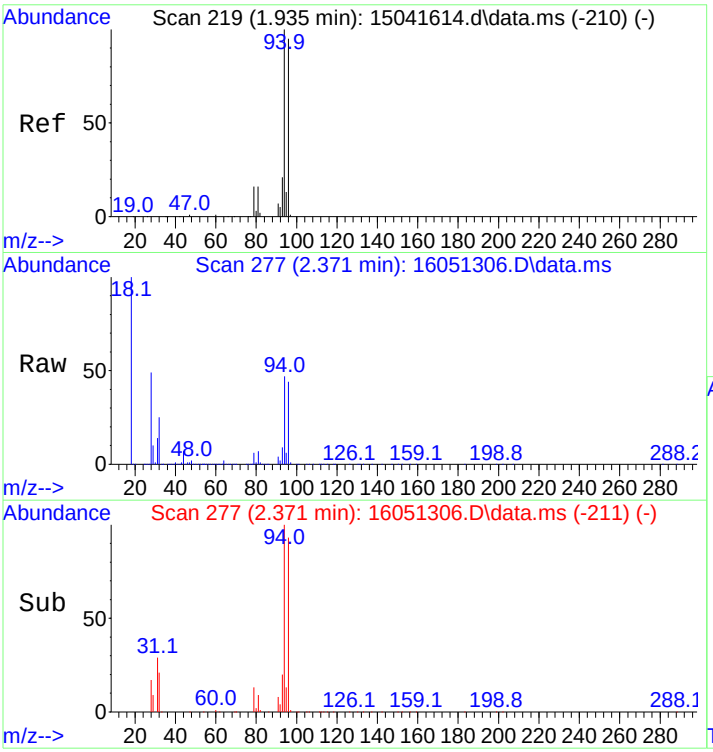


#4
Vinyl Chloride
Concen: 106.47 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 62 Resp: 95038

Ion	Ratio	Lower	Upper
62	100		
64	29.8	25.7	38.5

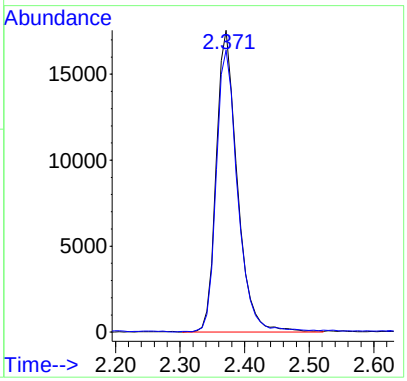


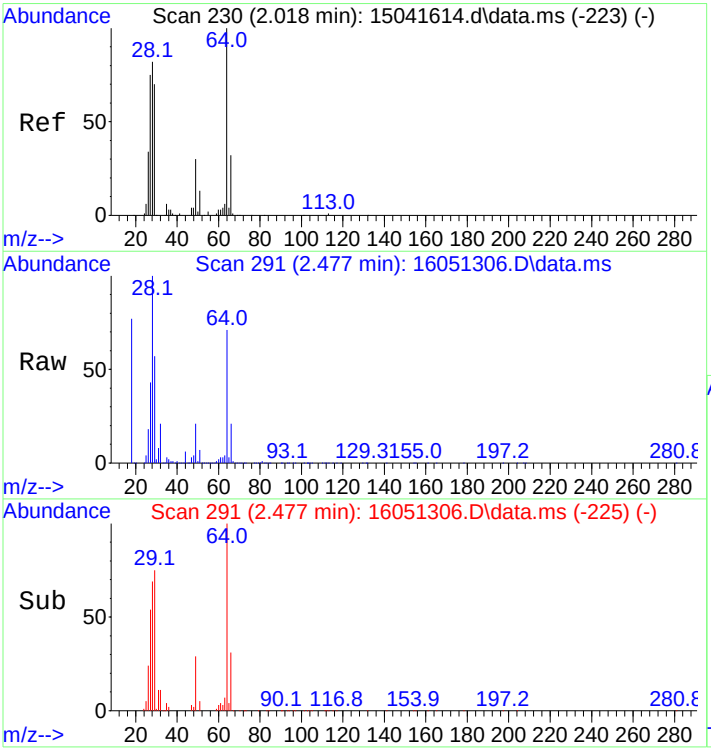


#5
Bromomethane
Concen: 100.02 ng
RT: 2.371 min Scan# 277
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 94 Resp: 39678

Ion	Ratio	Lower	Upper
94	100		
96	95.2	74.5	111.7

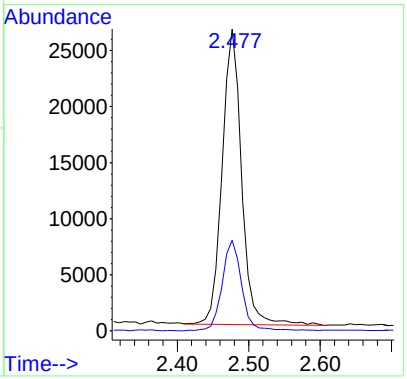


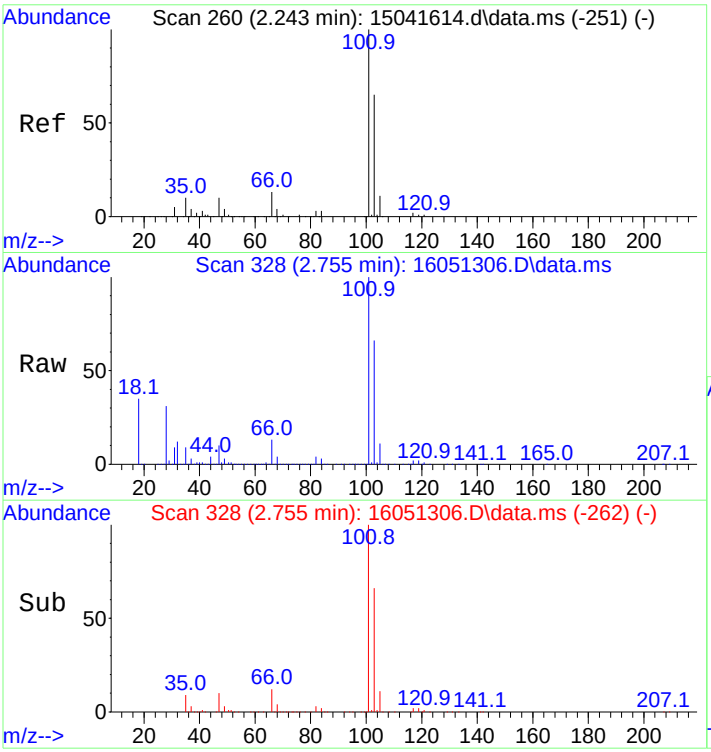


#6
Chloroethane
Concen: 107.10 ng m
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 64 Resp: 49819

Ion	Ratio	Lower	Upper
64	100		
66	30.4	25.0	37.4

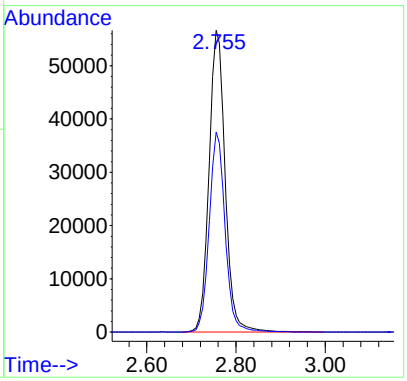


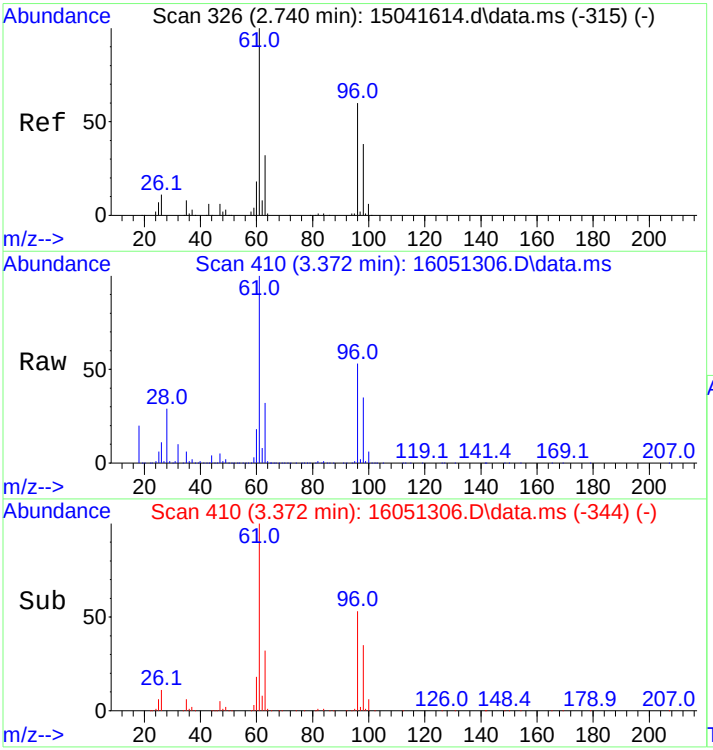


#7
Trichlorofluoromethane
Concen: 106.76 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:101 Resp: 142143

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.8	77.6

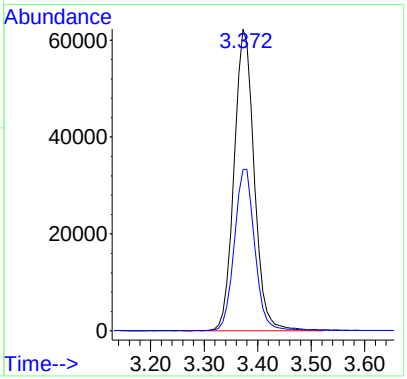


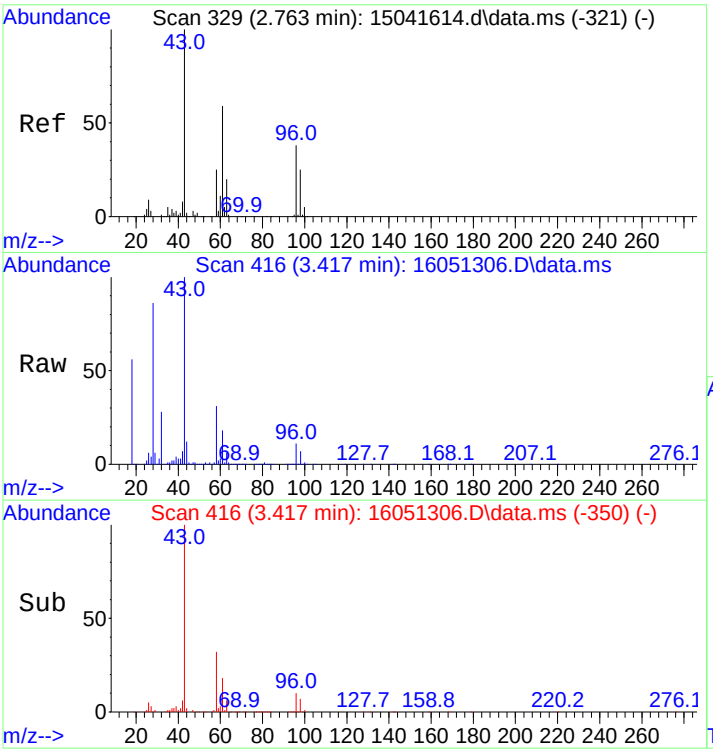


#8
1,1-Dichloroethene
Concen: 101.47 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 61 Resp: 162829

Ion	Ratio	Lower	Upper
61	100		
96	54.7	44.1	66.1

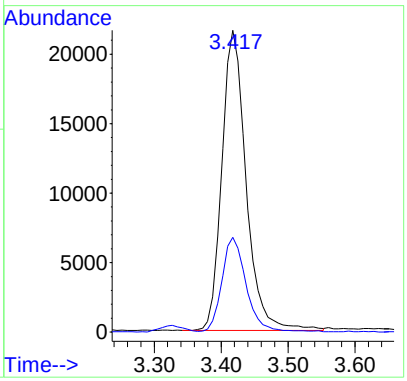


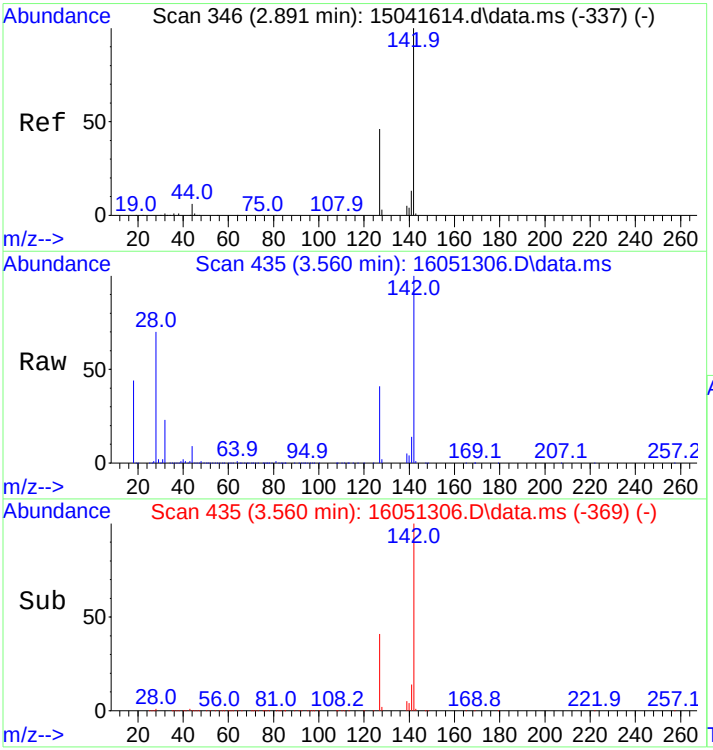


#9
Acetone
Concen: 91.28 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 54516

Ion	Ratio	Lower	Upper
43	100		
58	31.6	24.7	37.1

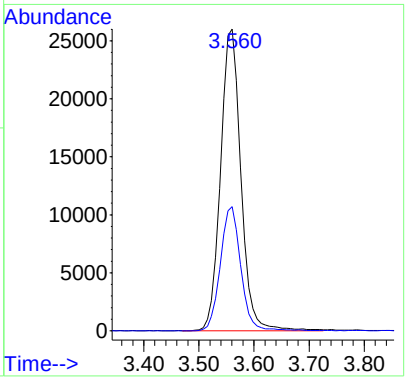


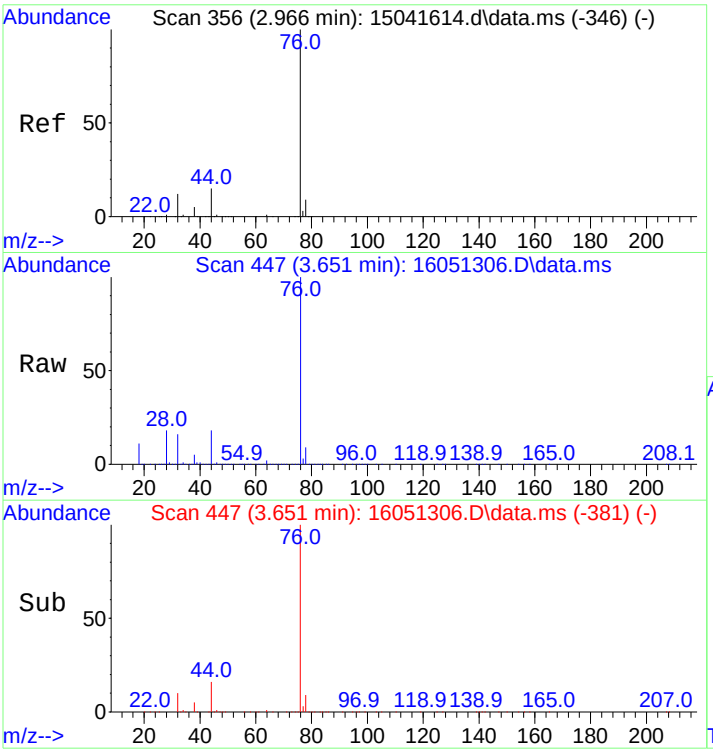


#10
Iodomethane
Concen: 105.04 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:142 Resp: 66857

Ion	Ratio	Lower	Upper
142	100		
127	41.3	32.8	49.2

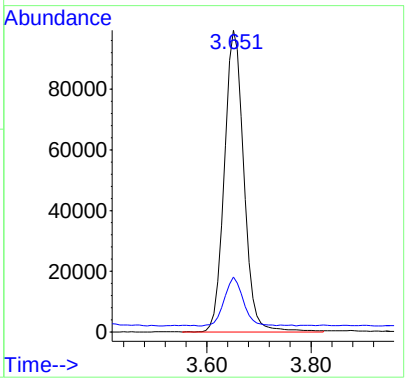


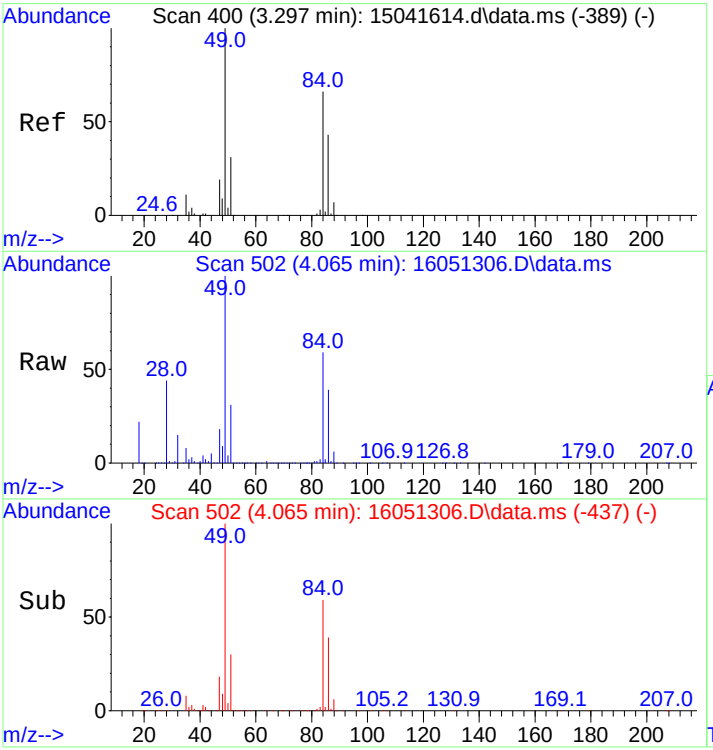


#11
Carbon disulfide
Concen: 103.20 ng
RT: 3.651 min Scan# 447
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 76 Resp: 259249

Ion	Ratio	Lower	Upper
76	100		
44	15.7	12.2	18.4

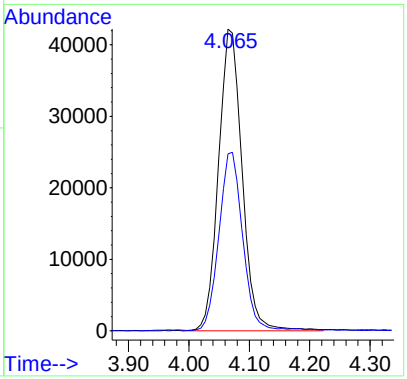


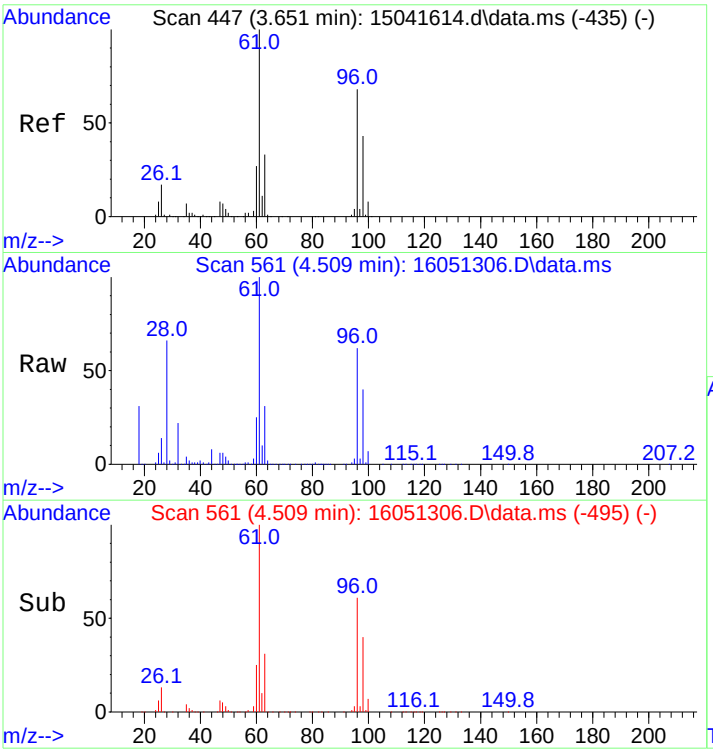


#12
Methylene Chloride
Concen: 102.76 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 49 Resp: 114117

Ion	Ratio	Lower	Upper
49	100		
84	59.2	48.4	72.6

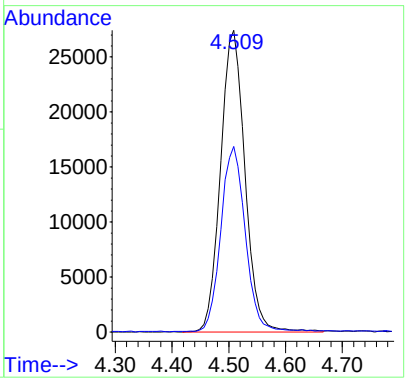


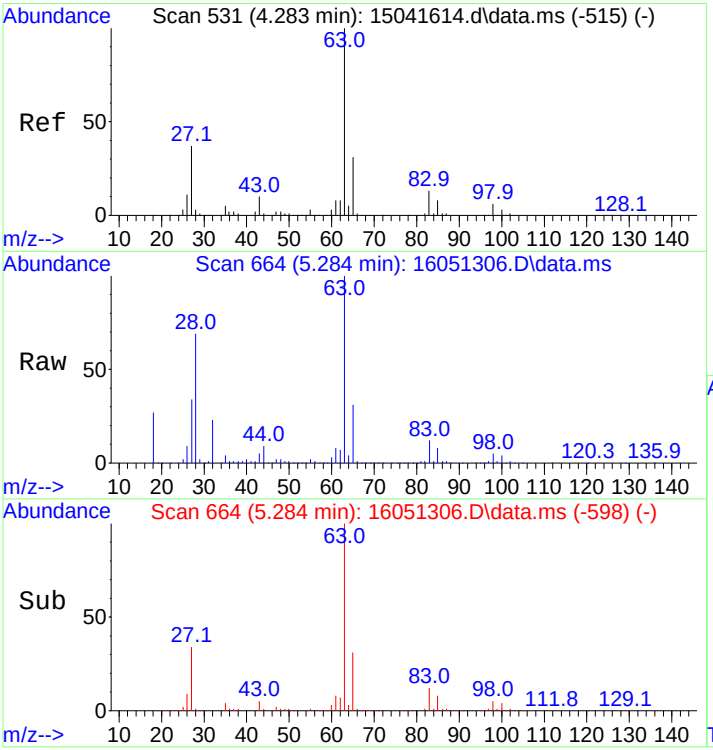


#13
trans,1,2-Dichloroethene
Concen: 76.97 ng
RT: 4.509 min Scan# 561
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 61 Resp: 81982

Ion	Ratio	Lower	Upper
61	100		
96	61.3	50.2	75.4

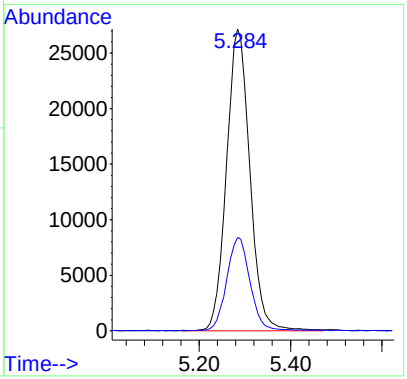


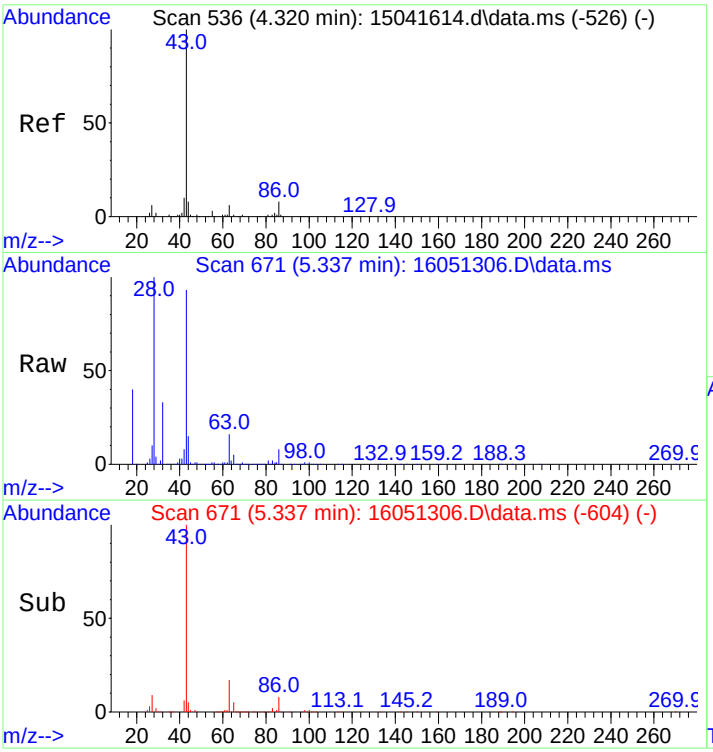


#14
1,1-Dichloroethane
Concen: 72.83 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 63 Resp: 96221

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

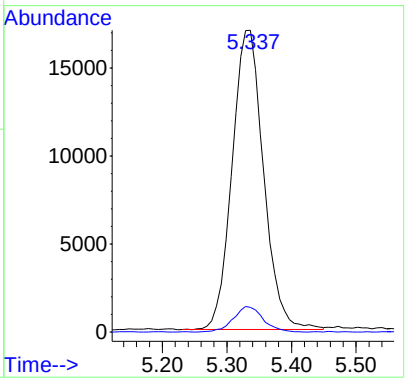


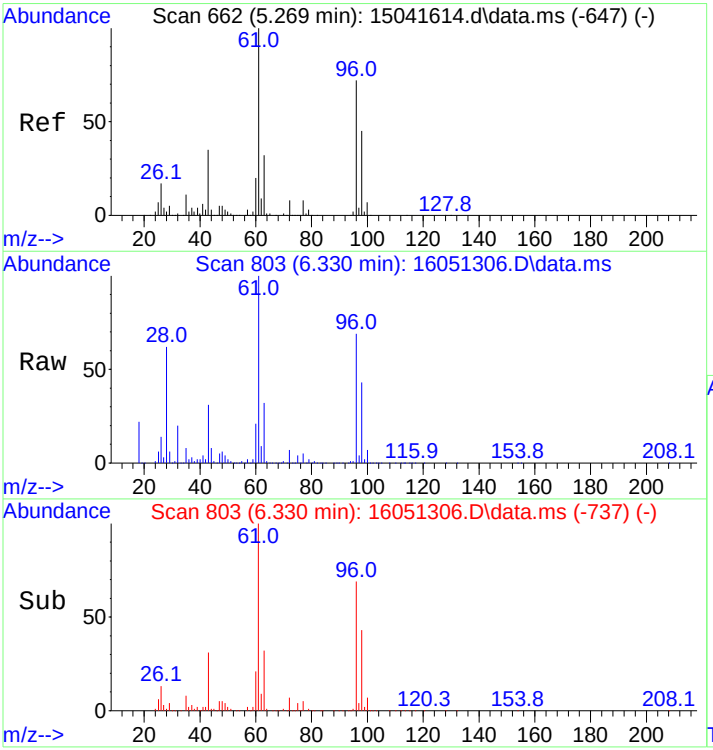


#15
Vinyl Acetate
Concen: 85.19 ng
RT: 5.337 min Scan# 671
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 57342

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.6	9.8

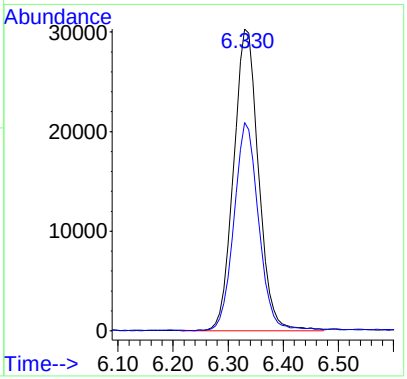


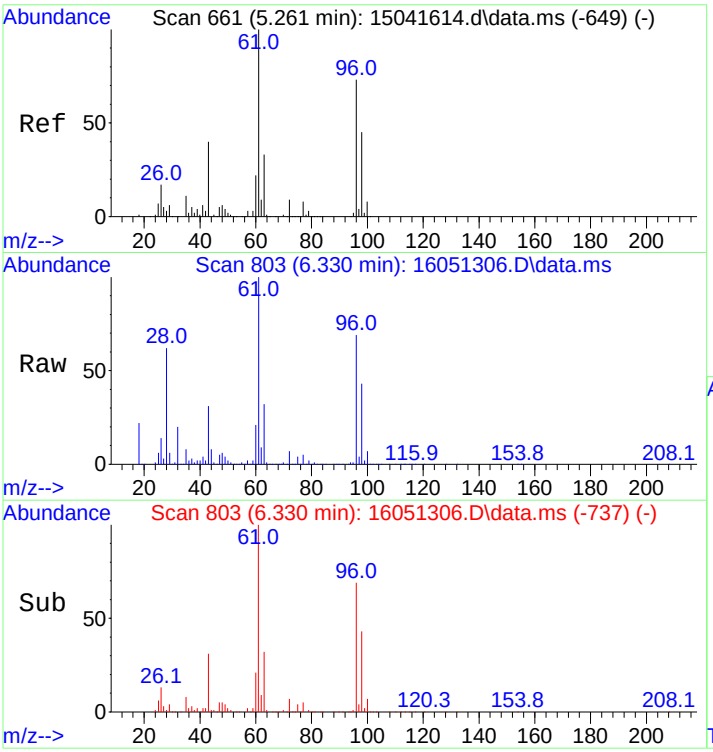


#16
cis,1,2-Dichloroethene
Concen: 77.09 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 61 Resp: 95169

Ion	Ratio	Lower	Upper
61	100		
96	68.2	54.6	81.8

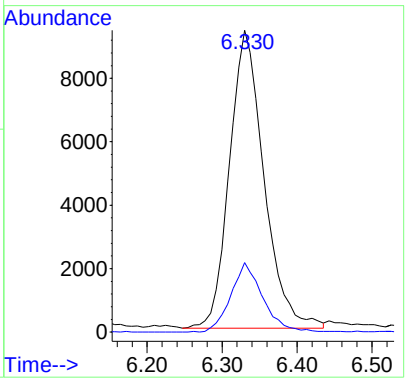


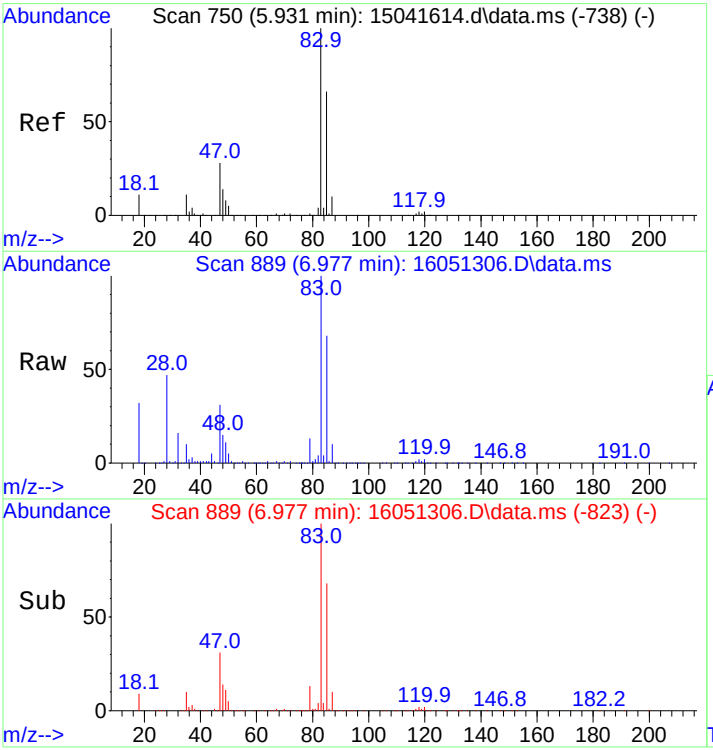


#17
2-Butanone
Concen: 70.35 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 30038

Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.4	26.2

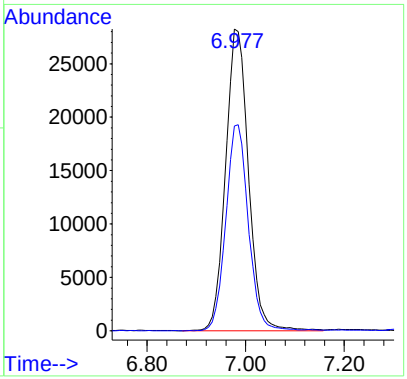


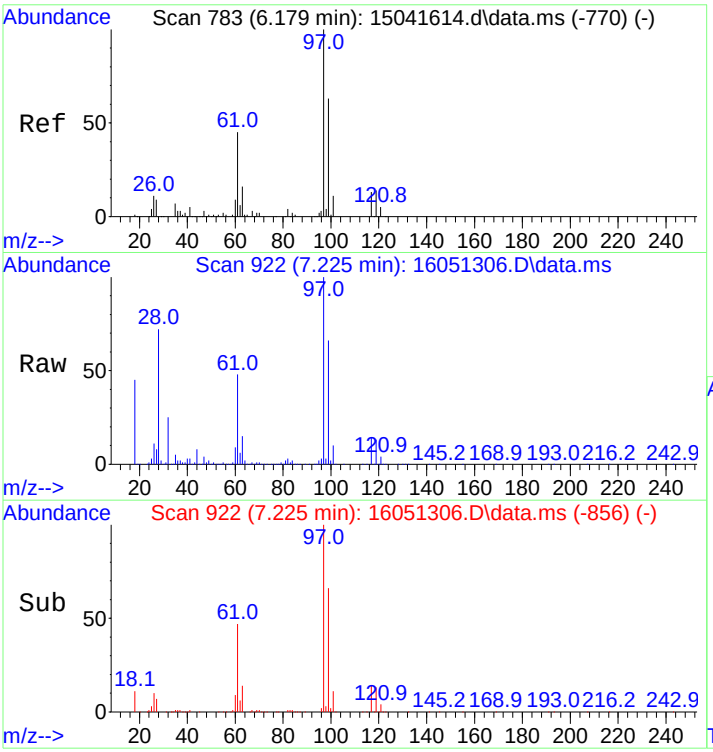


#18
Chloroform
Concen: 73.43 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 91005

Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.9	80.9

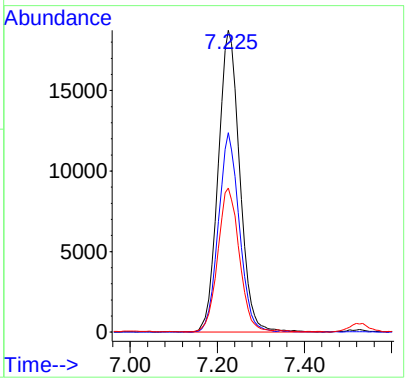


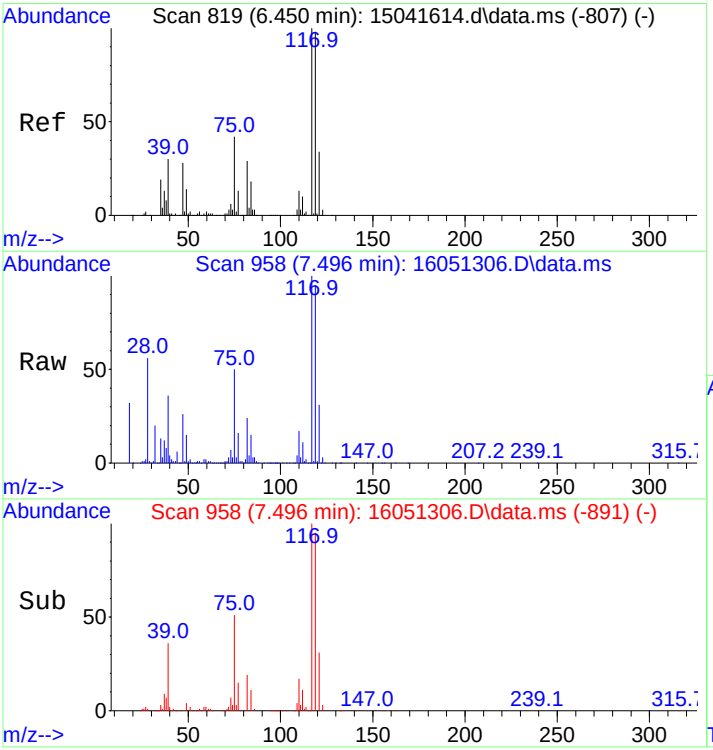


#19
1,1,1-Trichloroethane
Concen: 90.59 ng
RT: 7.225 min Scan# 922
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 97 Resp: 64201

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	47.7	37.6	56.4

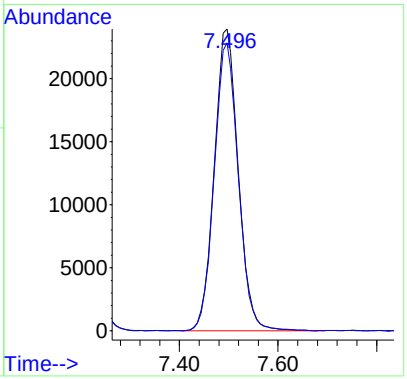


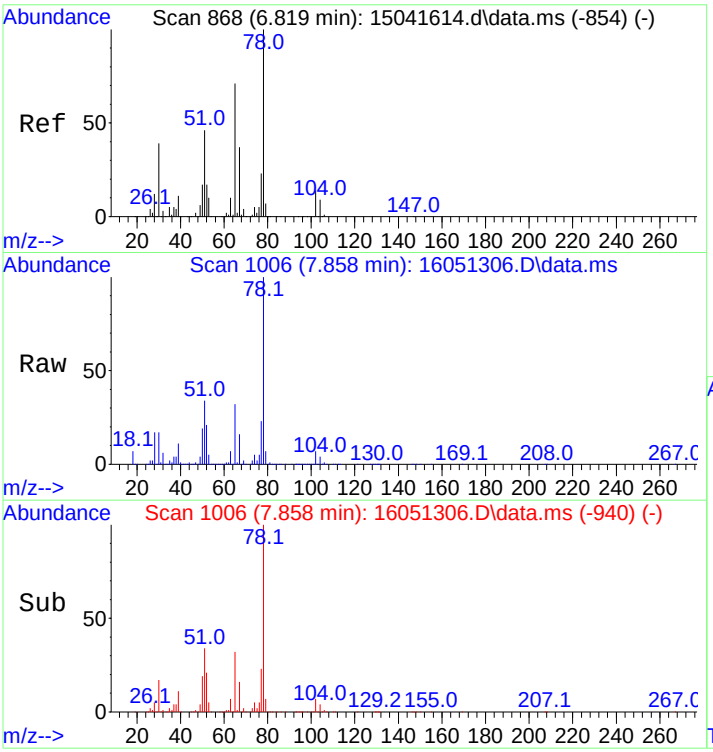


#22
Carbon Tetrachloride
Concen: 94.31 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:117 Resp: 80805

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.0	115.4

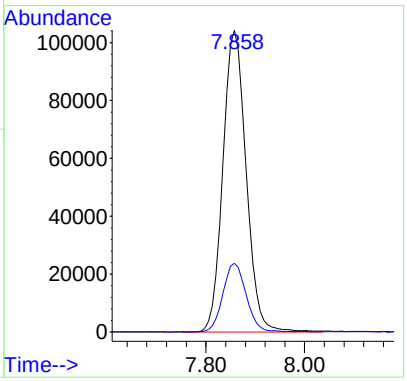


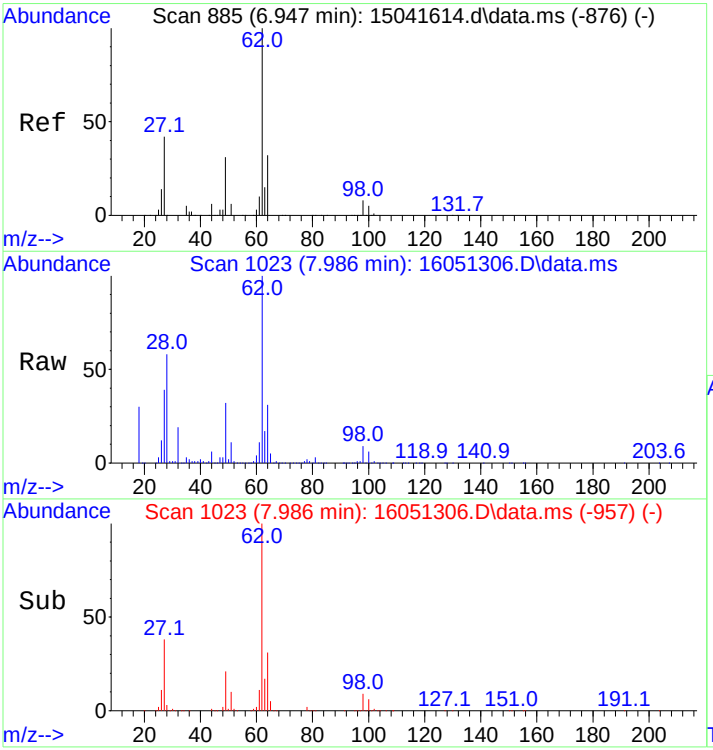


#23
Benzene
Concen: 105.30 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 78 Resp: 341907

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

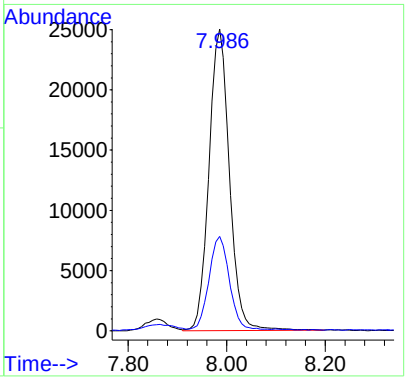


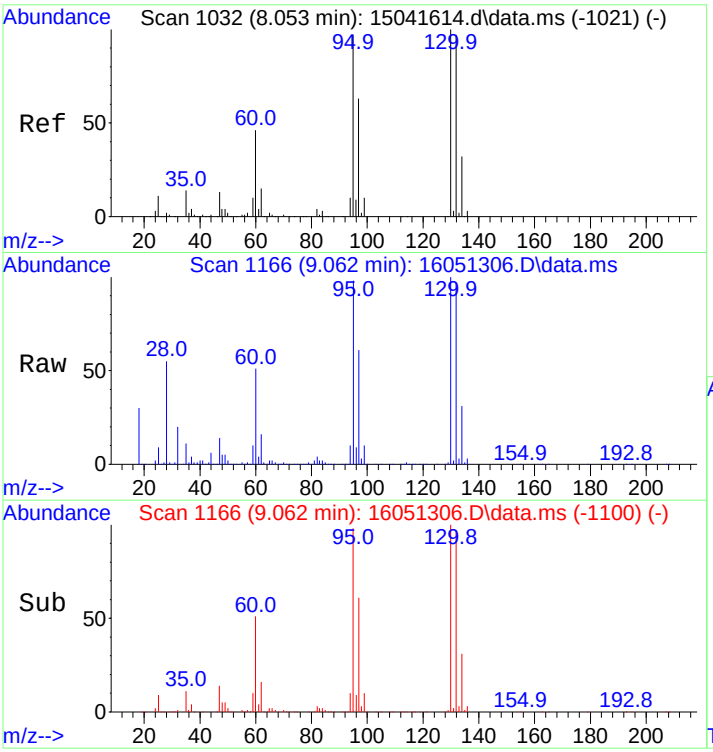


#24
1,2-Dichloroethane
Concen: 77.51 ng
RT: 7.986 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 62 Resp: 72048

Ion	Ratio	Lower	Upper
62	100		
64	31.7	24.8	37.2

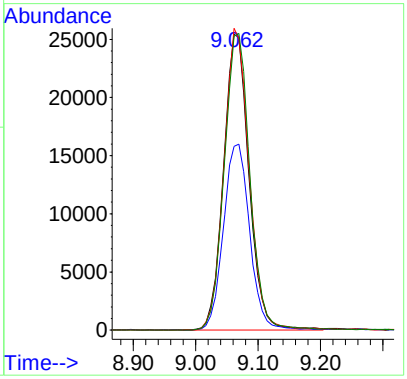


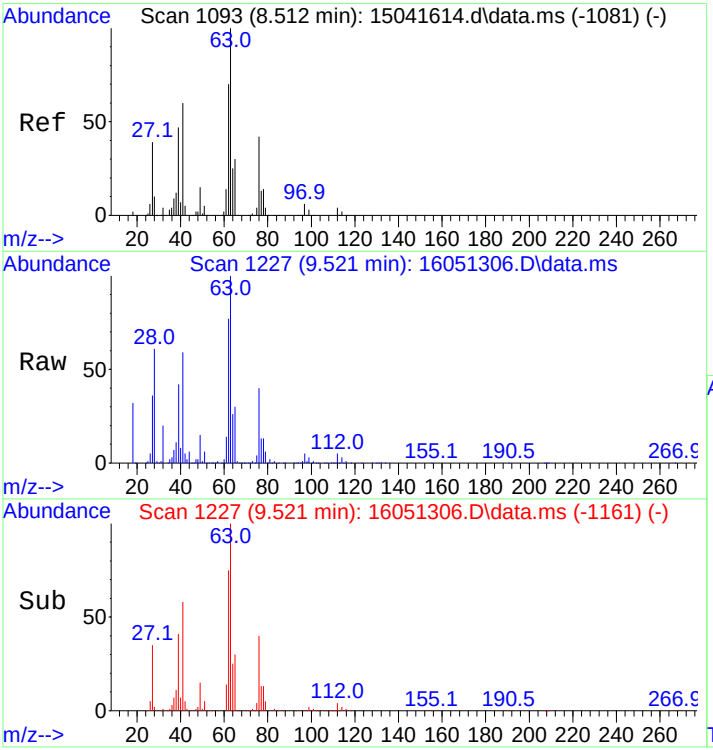


#25
Trichloroethene
Concen: 98.91 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 95 Resp: 71999

Ion	Ratio	Lower	Upper
95	100		
97	65.0	51.8	77.8
130	101.7	81.9	122.9
132	101.4	81.2	121.8

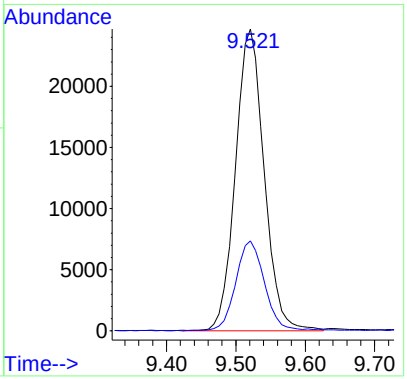


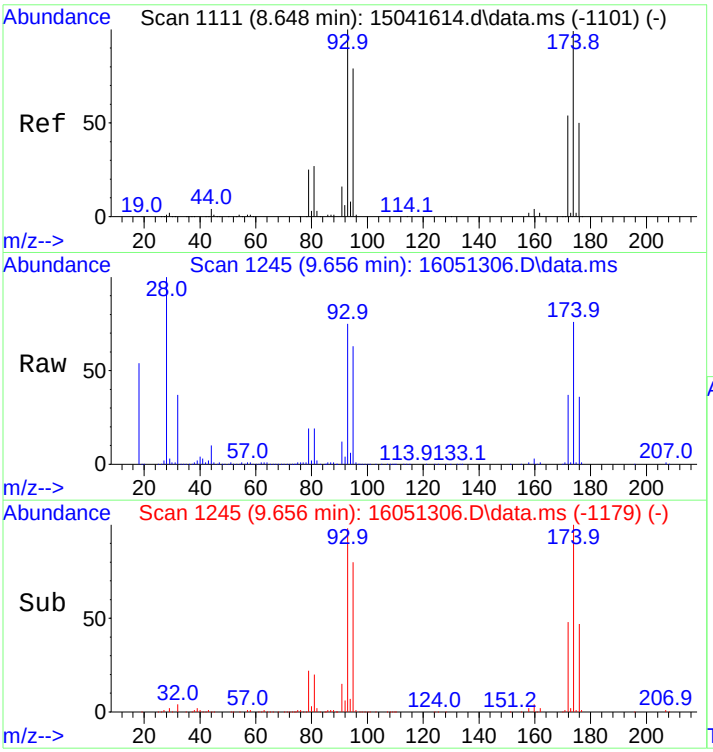


#26
1,2-Dichloropropane
Concen: 95.38 ng
RT: 9.521 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 63 Resp: 70987

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.2	36.2

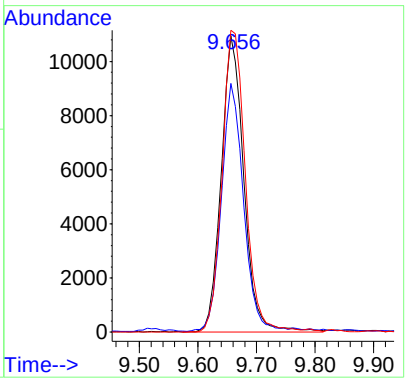


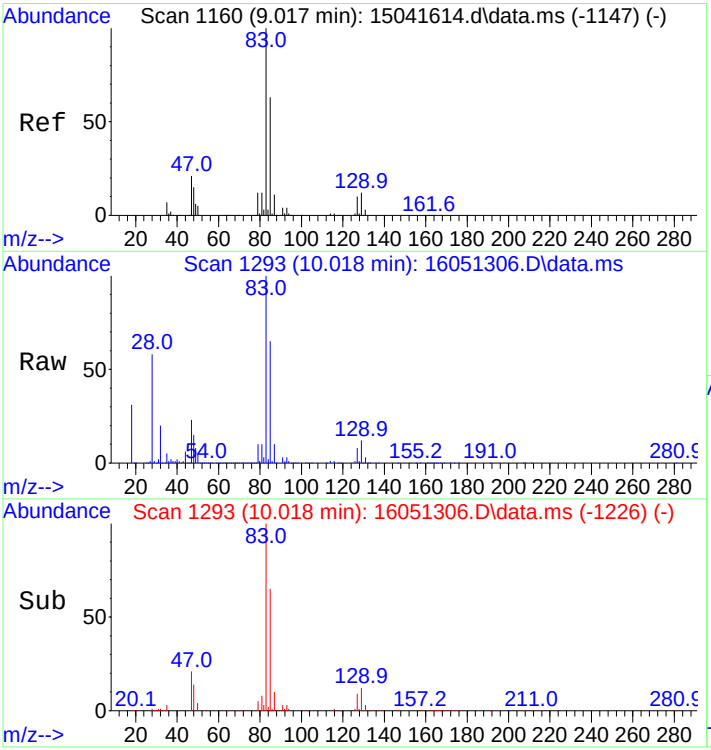


#27
Dibromomethane
Concen: 70.64 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 93 Resp: 29449

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	104.2	85.5	128.3

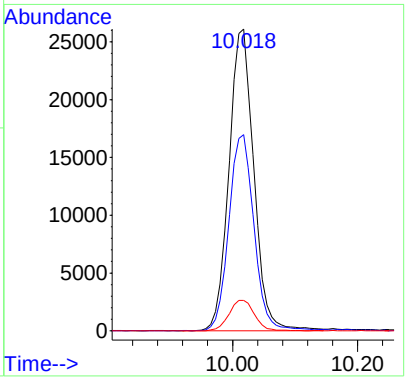


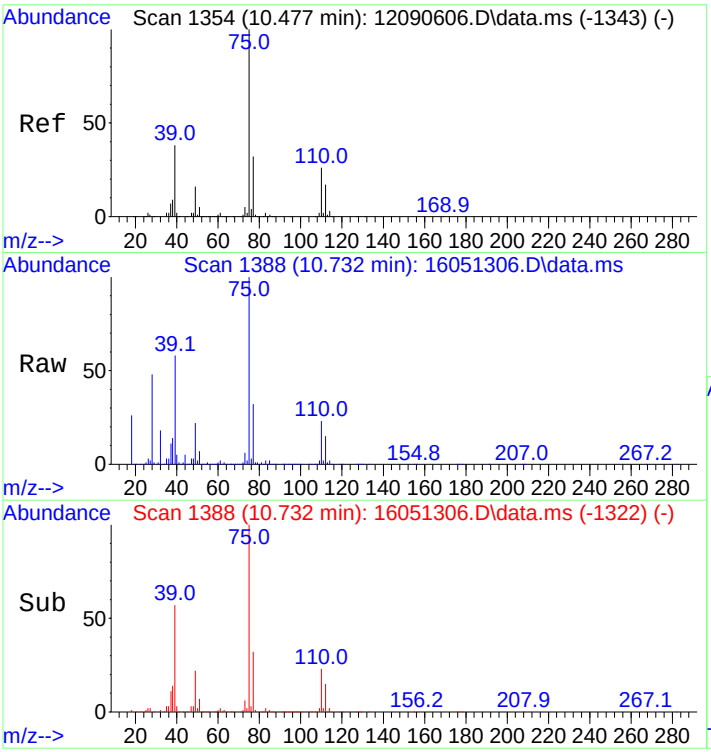


#28
Bromodichloromethane
Concen: 89.15 ng
RT: 10.018 min Scan# 1293
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 72244

Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.5	78.7
87	10.5	8.3	12.5

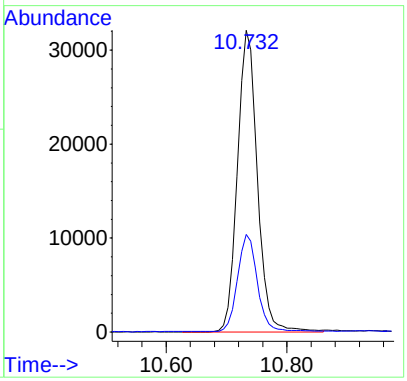


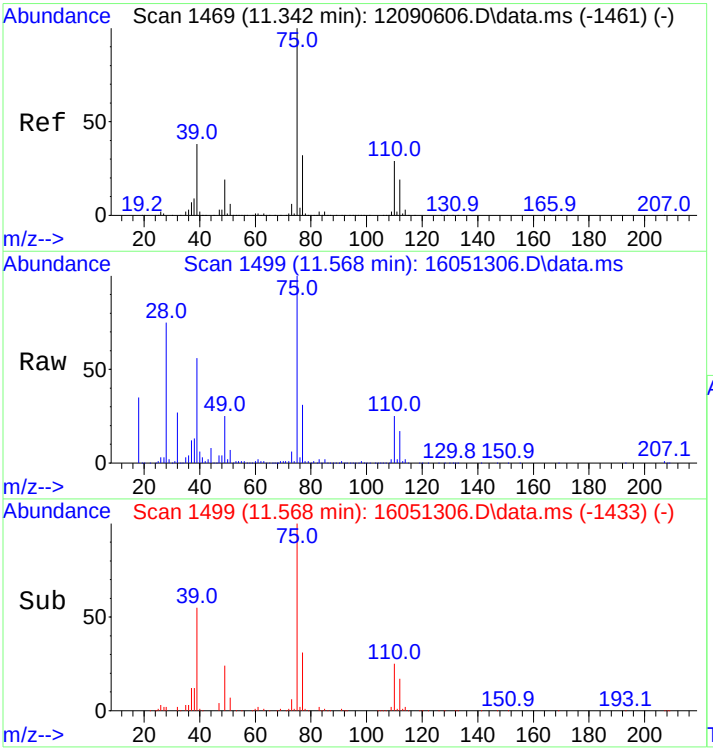


#29
cis,1,3-Dichloropropene
Concen: 88.75 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 73680

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.6	38.4

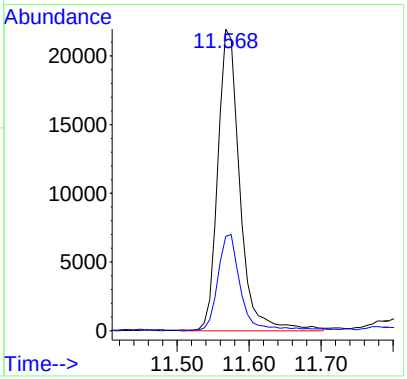


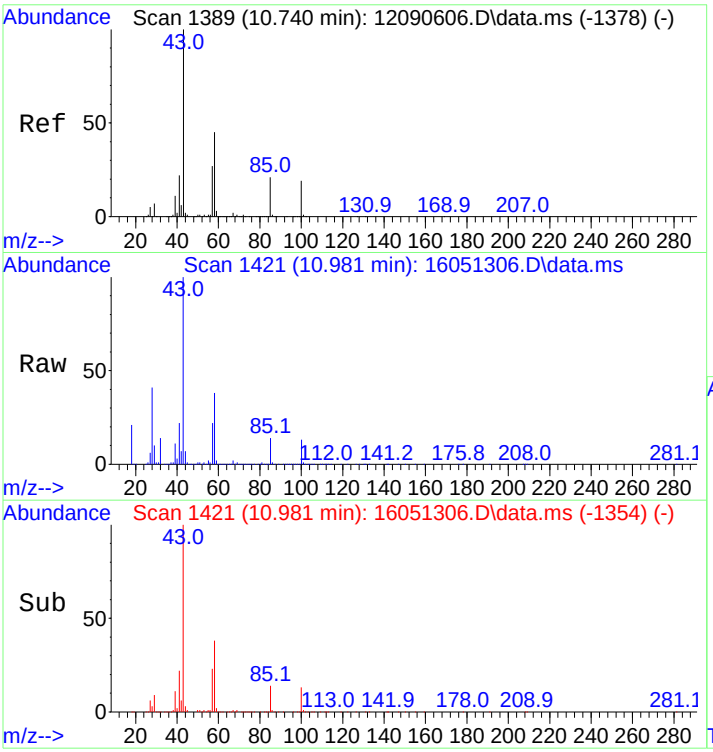


#30
trans,1,3-Dichloropropene
Concen: 82.55 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 46616

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.0	39.0

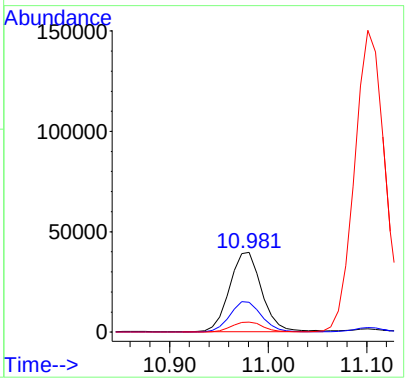


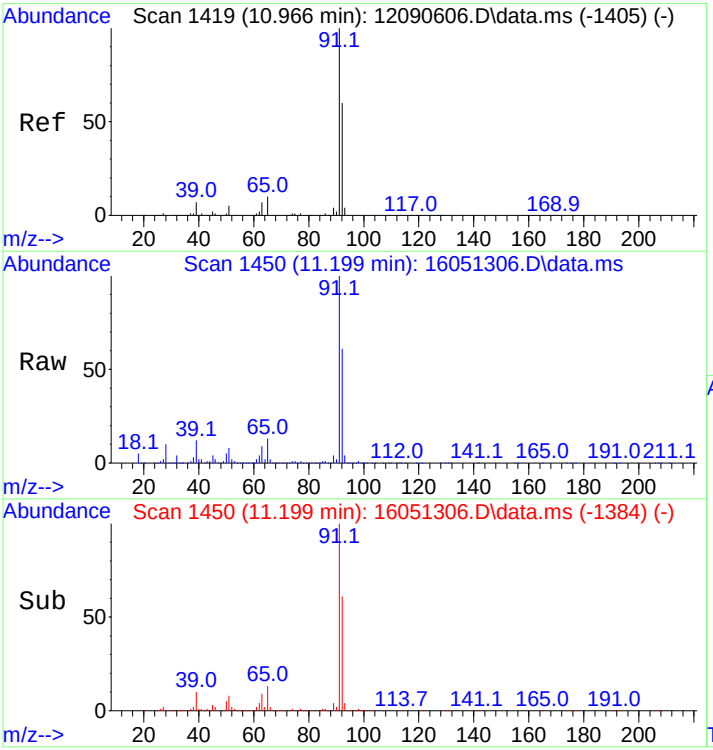


#31
4-Methyl-2-Pentanone
Concen: 81.90 ng
RT: 10.981 min Scan# 1421
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 89761

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.3	46.9
100	12.8	10.2	15.2

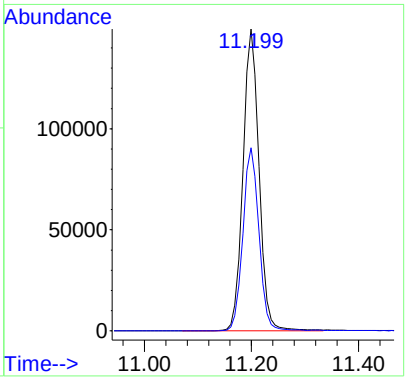


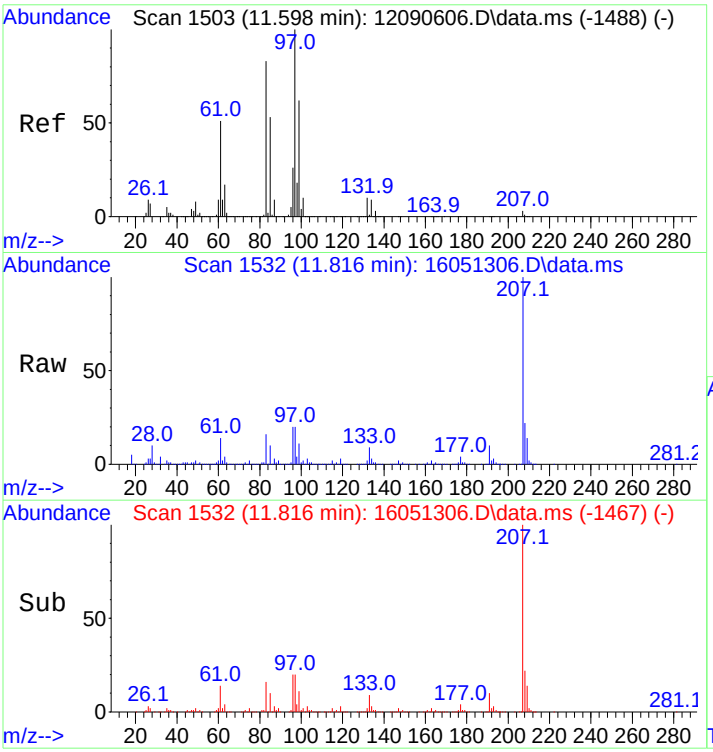


#33
Toluene
Concen: 99.27 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 311817

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.6	73.0

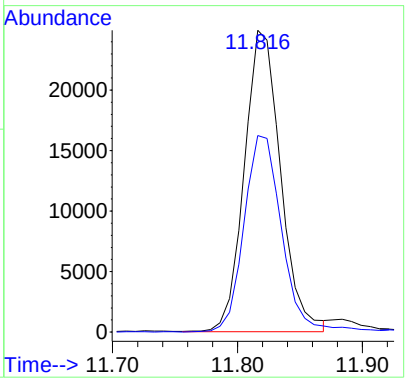


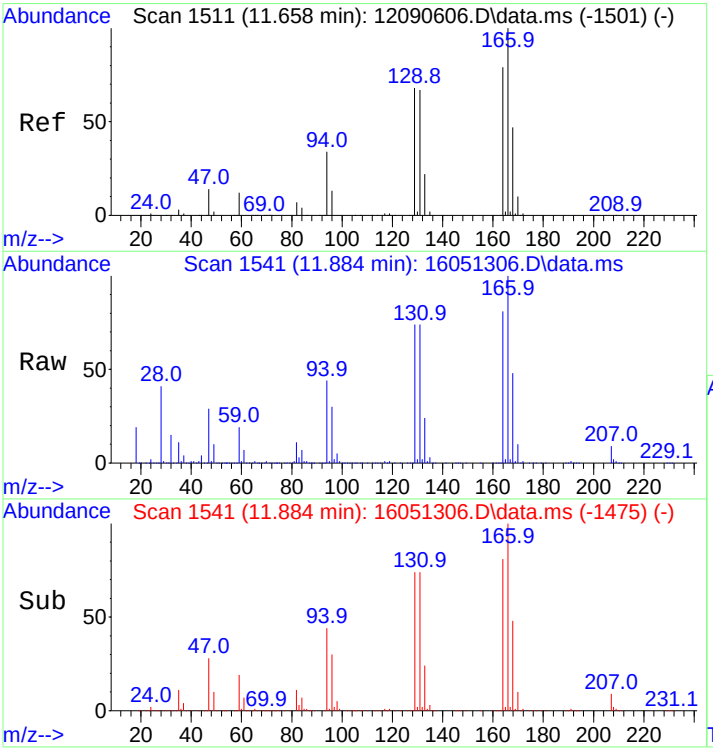


#34
1,1,2-Trichloroethane
Concen: 92.59 ng
RT: 11.816 min Scan# 1532
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 50262

Ion	Ratio	Lower	Upper
83	100		
85	67.9	54.7	82.1

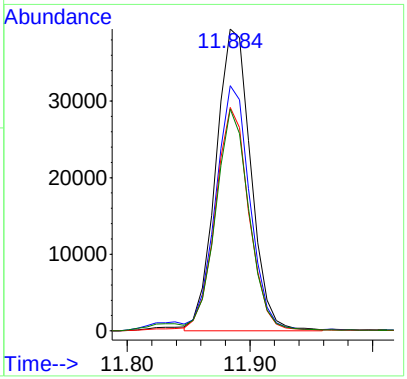


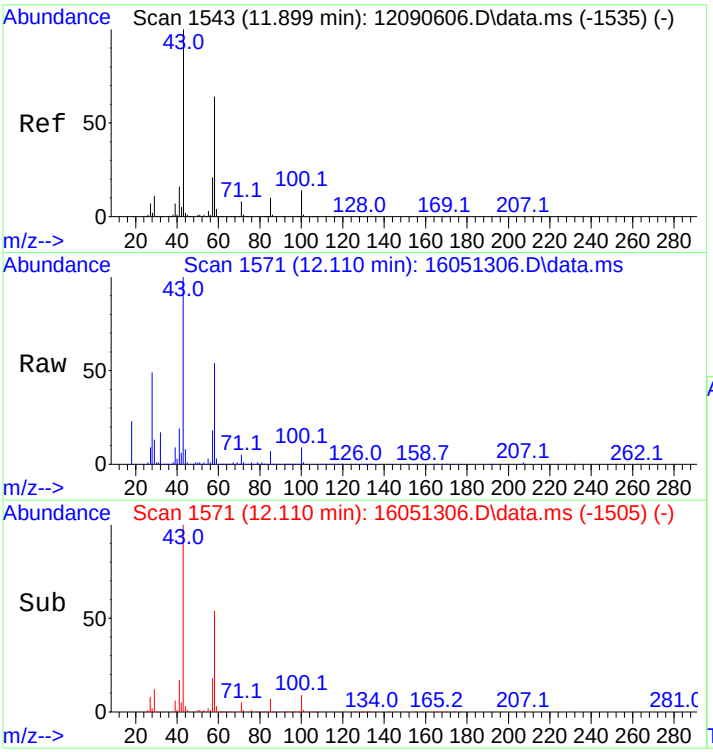


#35
Tetrachloroethene
Concen: 94.65 ng m
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:166 Resp: 78116

Ion	Ratio	Lower	Upper
166	100		
164	79.5	63.2	94.8
129	71.2	55.5	83.3
131	69.7	55.2	82.8

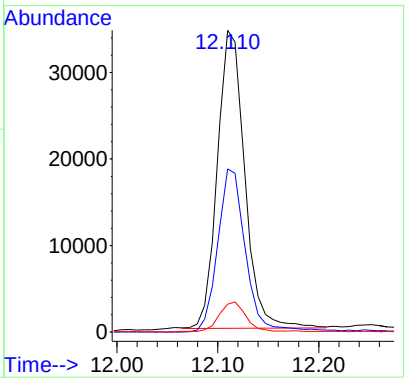


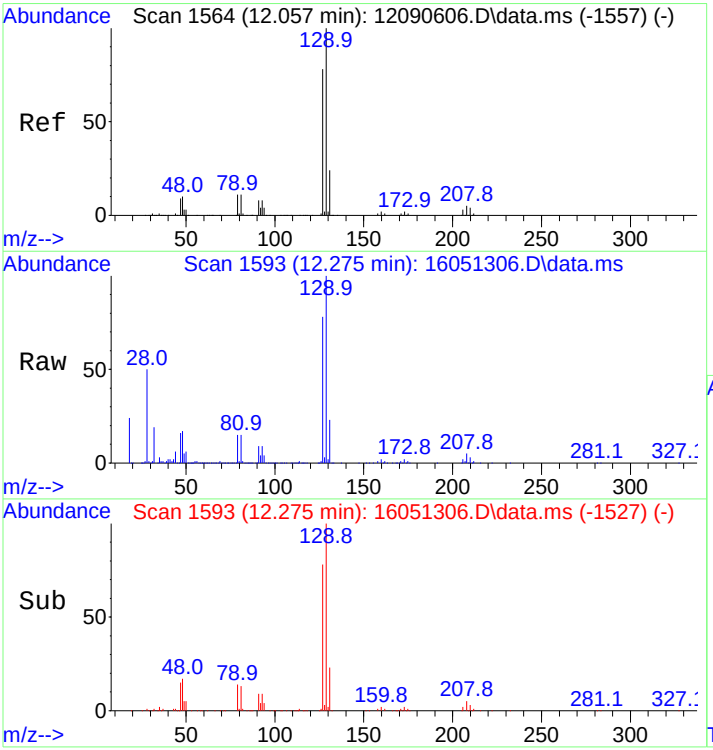


#36
2-Hexanone
Concen: 80.26 ng m
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 43 Resp: 65024

Ion	Ratio	Lower	Upper
43	100		
58	55.4	43.6	65.4
100	9.8	7.8	11.8

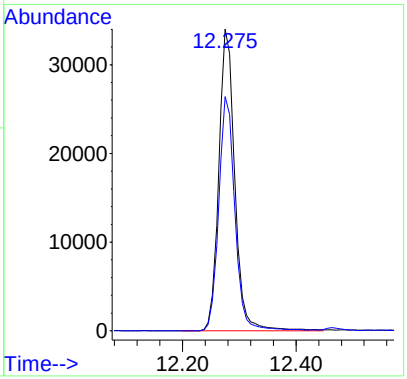


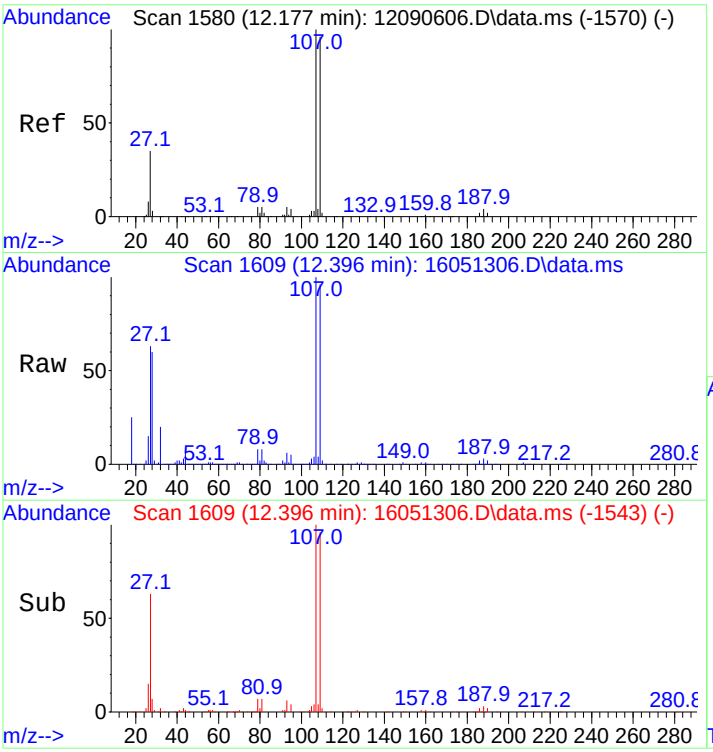


#37
Chlorodibromomethane
Concen: 90.53 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:129 Resp: 66656

Ion	Ratio	Lower	Upper
129	100		
127	78.6	62.3	93.5

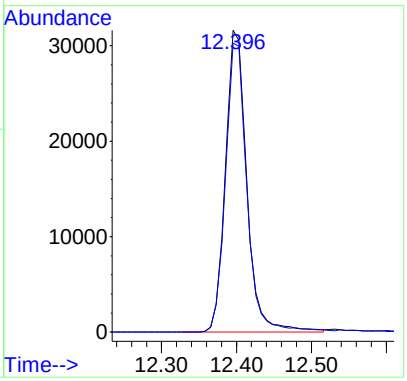


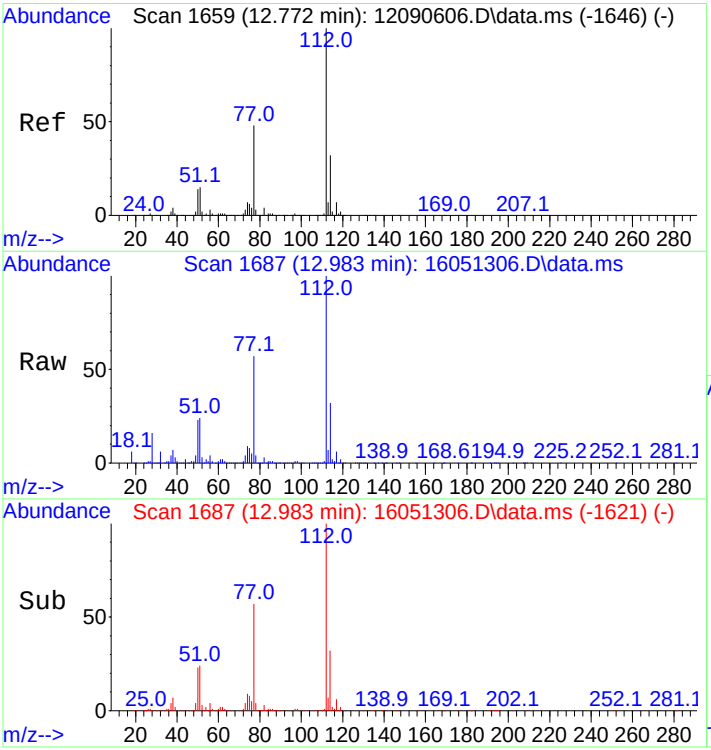


#38
Ethylene Dibromide
Concen: 93.40 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:107 Resp: 62775

Ion	Ratio	Lower	Upper
107	100		
109	96.2	74.3	111.5

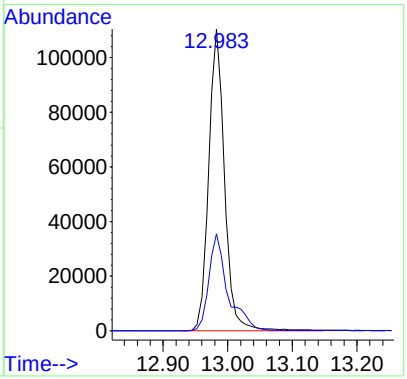


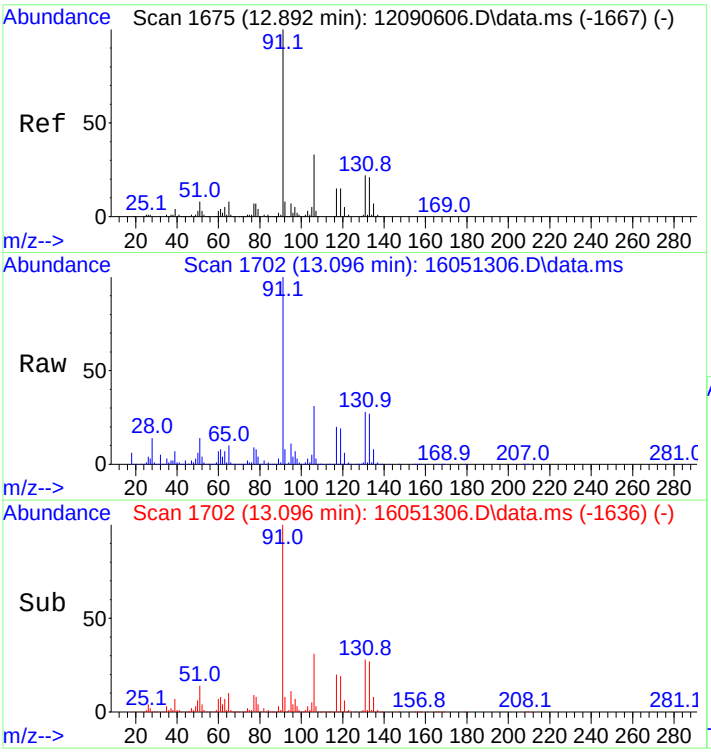


#39
Chlorobenzene
Concen: 97.97 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:112 Resp: 189104

Ion	Ratio	Lower	Upper
112	100		
114	38.6	27.5	41.3

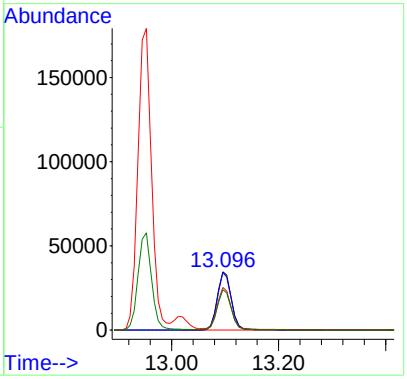


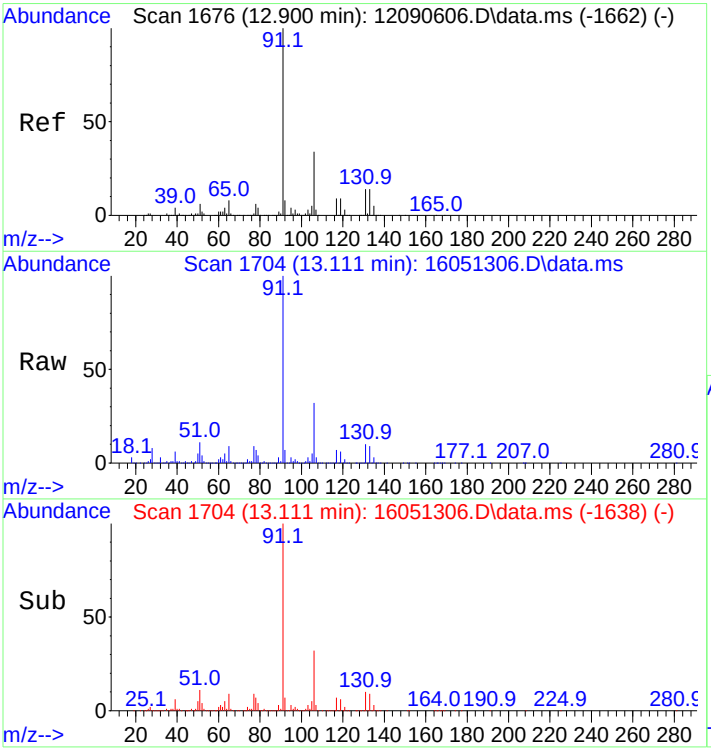


#40
1,1,1,2-Tetrachloroethane
Concen: 92.70 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:131 Resp: 63506

Ion	Ratio	Lower	Upper
131	100		
133	95.8	77.8	116.6
117	73.5	57.1	85.7
119	68.1	54.3	81.5

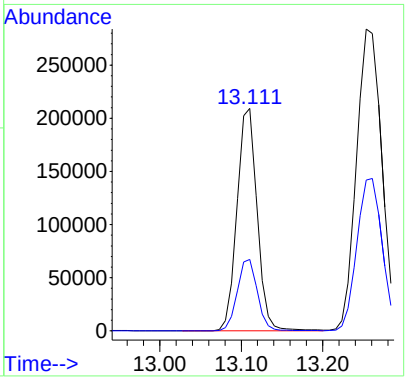


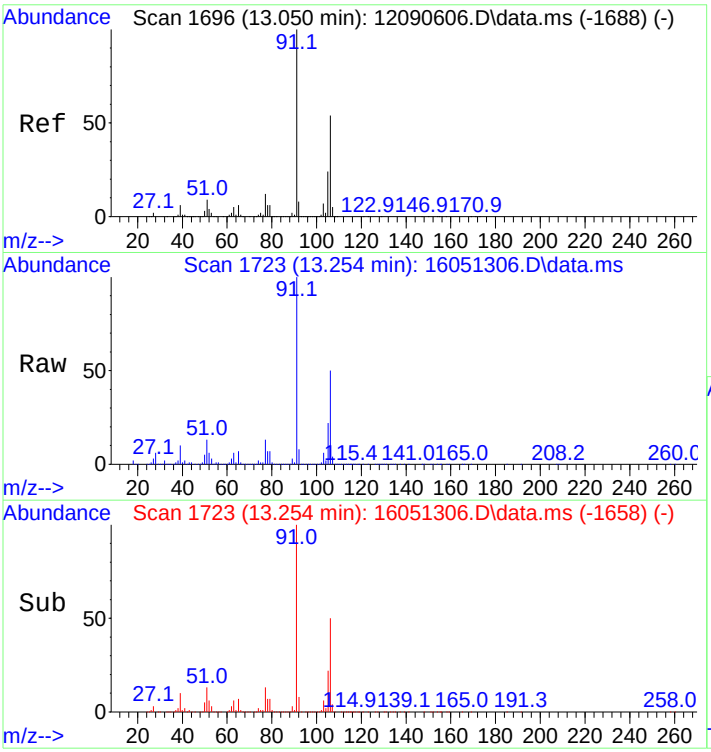


#41
Ethylbenzene
Concen: 100.57 ng
RT: 13.111 min Scan# 1704
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 358874

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.5	38.3

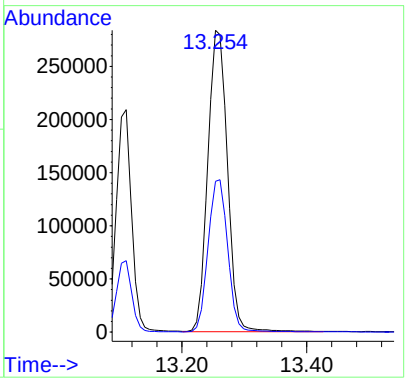


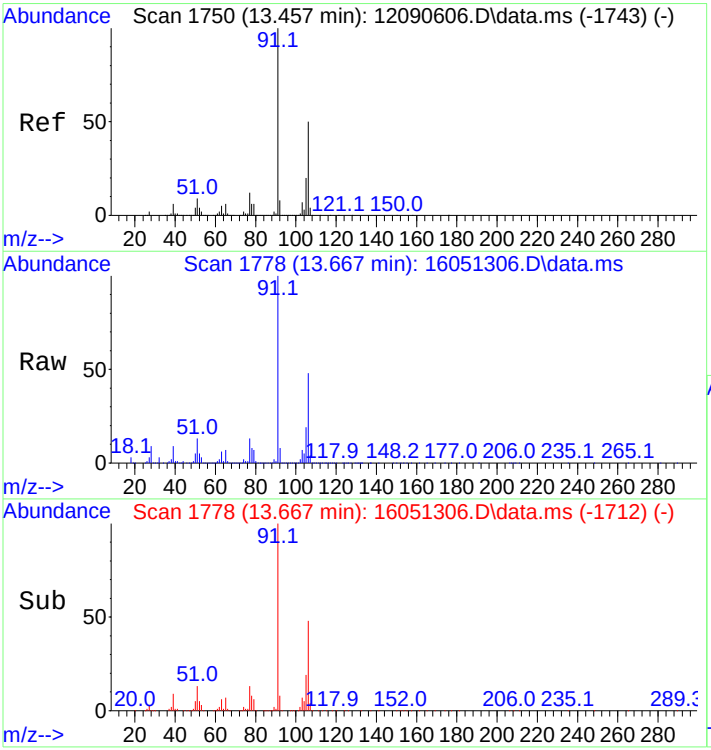


#42
M&P-Xylene
Concen: 204.50 ng
RT: 13.254 min Scan# 1723
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 620547

Ion	Ratio	Lower	Upper
91	100		
106	50.4	40.4	60.6

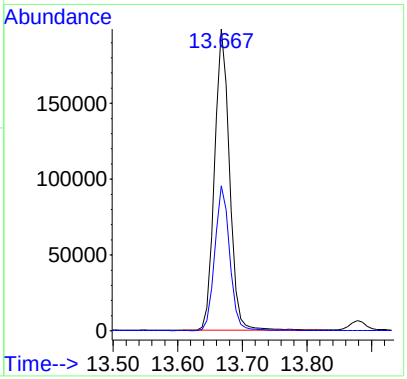


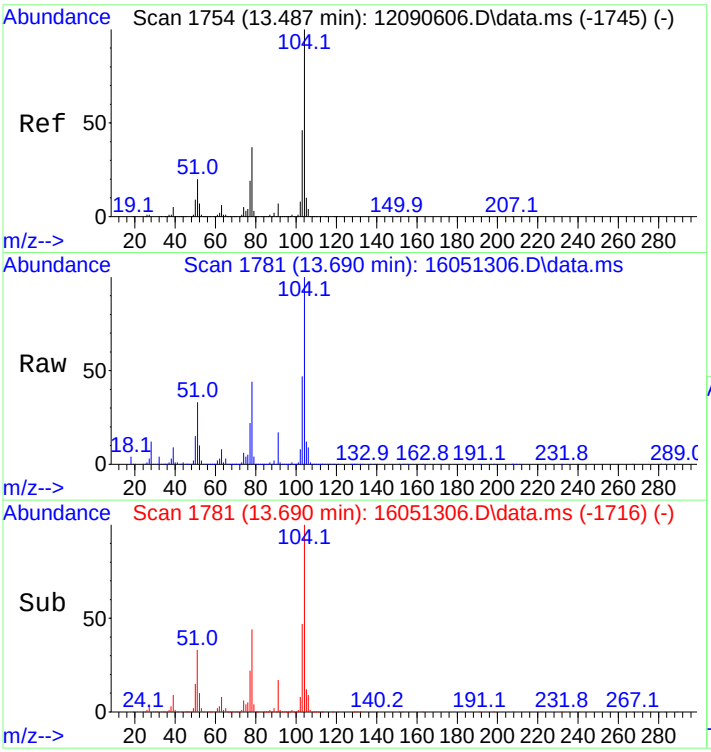


#43
O-Xylene
Concen: 101.86 ng
RT: 13.667 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 320417

Ion	Ratio	Lower	Upper
91	100		
106	47.9	38.2	57.2

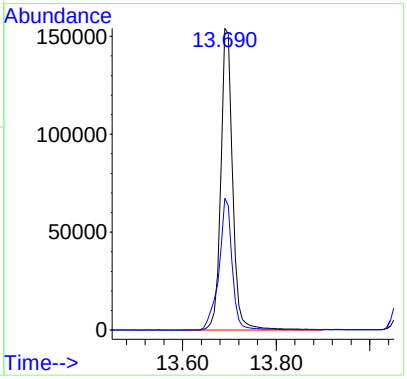


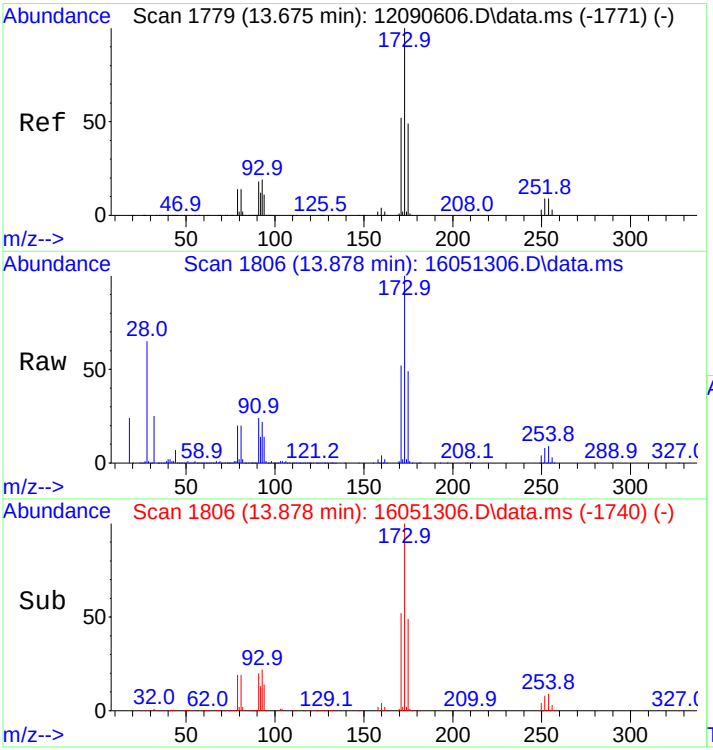


#44
Styrene
Concen: 100.92 ng
RT: 13.690 min Scan# 1781
Delta R.T. -0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:104 Resp: 271000

Ion	Ratio	Lower	Upper
104	100		
78	48.8	39.8	59.6

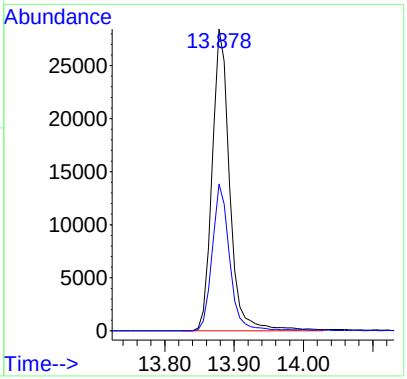


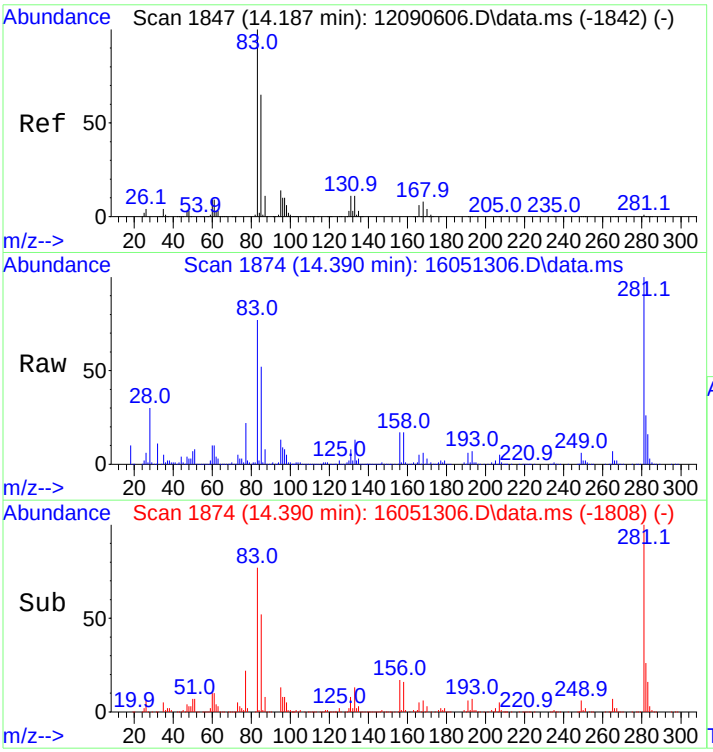


#45
Bromoform
Concen: 86.26 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:173 Resp: 50056

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.5	57.7

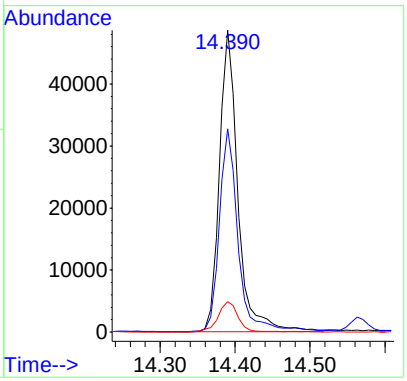


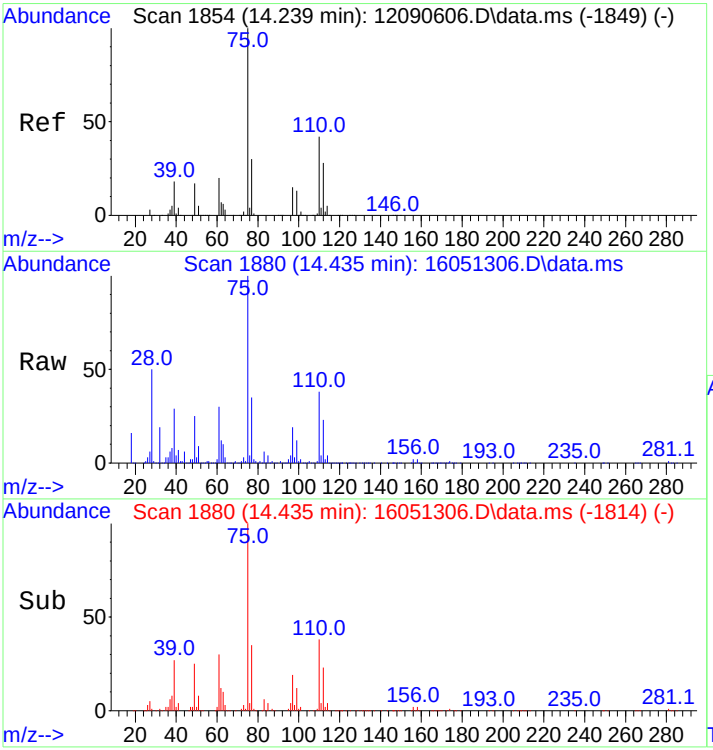


#46
1,1,2,2-Tetrachloroethane
Concen: 89.09 ng
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 83 Resp: 83732

Ion	Ratio	Lower	Upper
83	100		
85	68.5	53.2	79.8
131	11.2	9.0	13.6

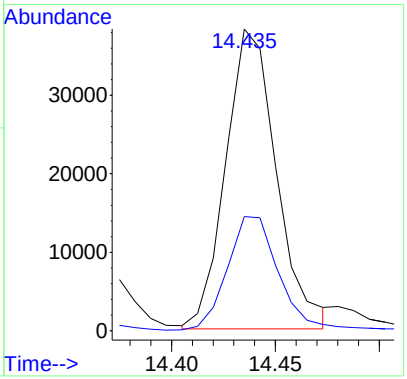


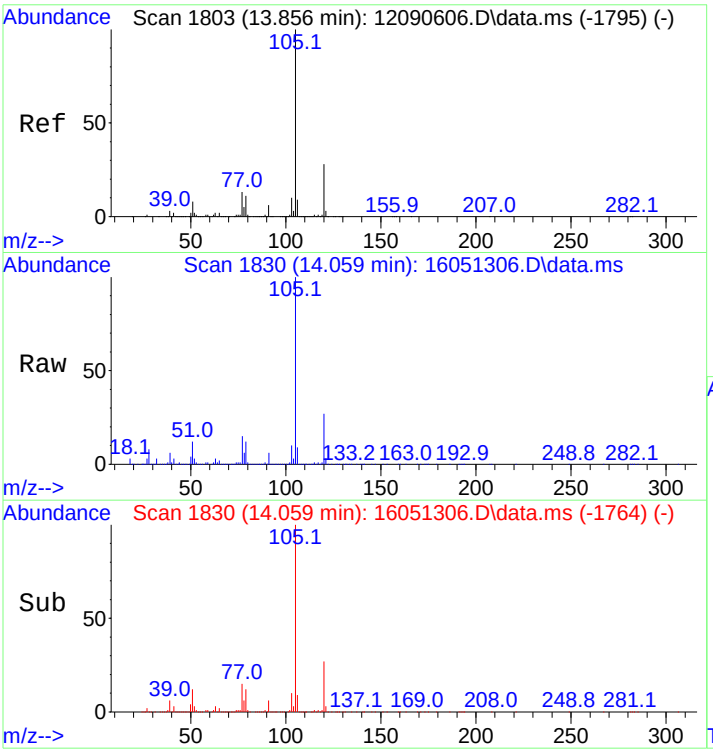


#47
1,2,3-Trichloropropane
Concen: 82.93 ng m
RT: 14.435 min Scan# 1880
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 64965

Ion	Ratio	Lower	Upper
75	100		
110	38.3	30.3	45.5

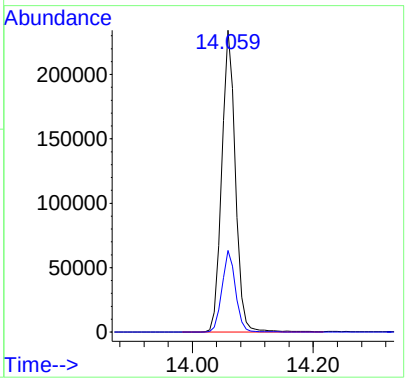


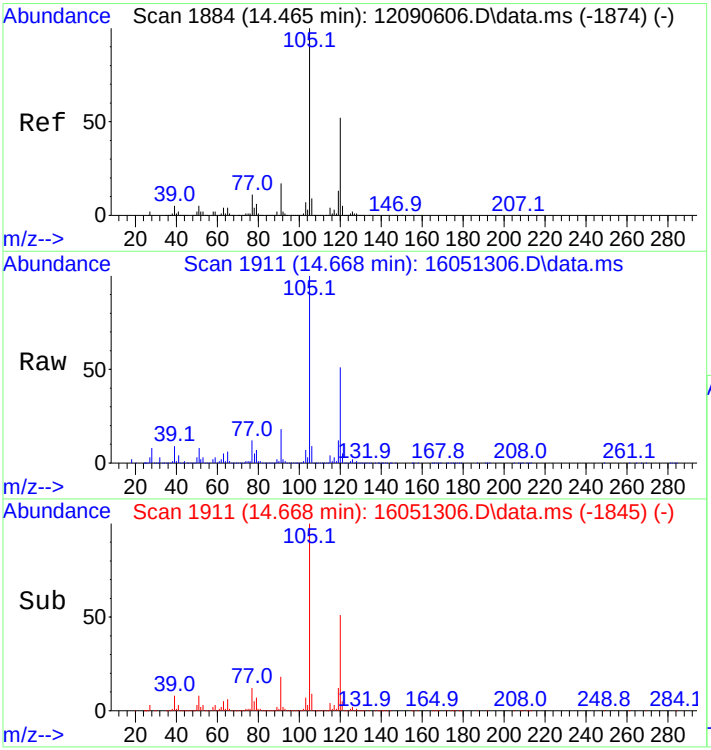


#51
Isopropylbenzene
Concen: 100.15 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 366165

Ion	Ratio	Lower	Upper
105	100		
120	26.8	21.4	32.2

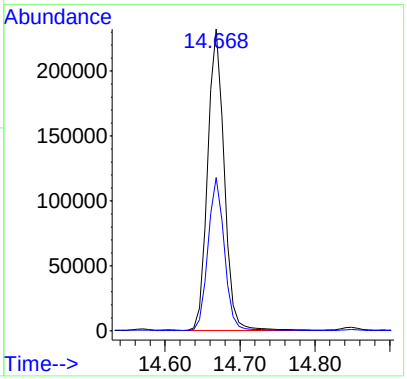


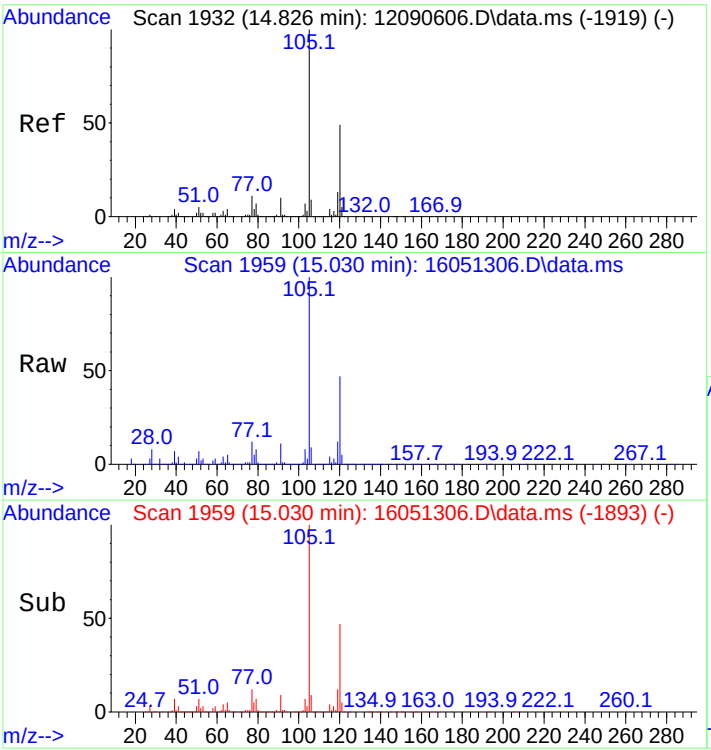


#52
1,3,5-Trimethylbenzene
Concen: 100.02 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 356396

Ion	Ratio	Lower	Upper
105	100		
120	50.2	39.9	59.9

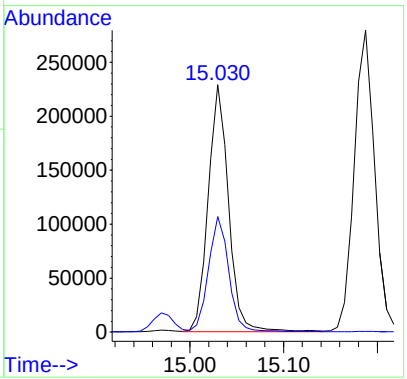


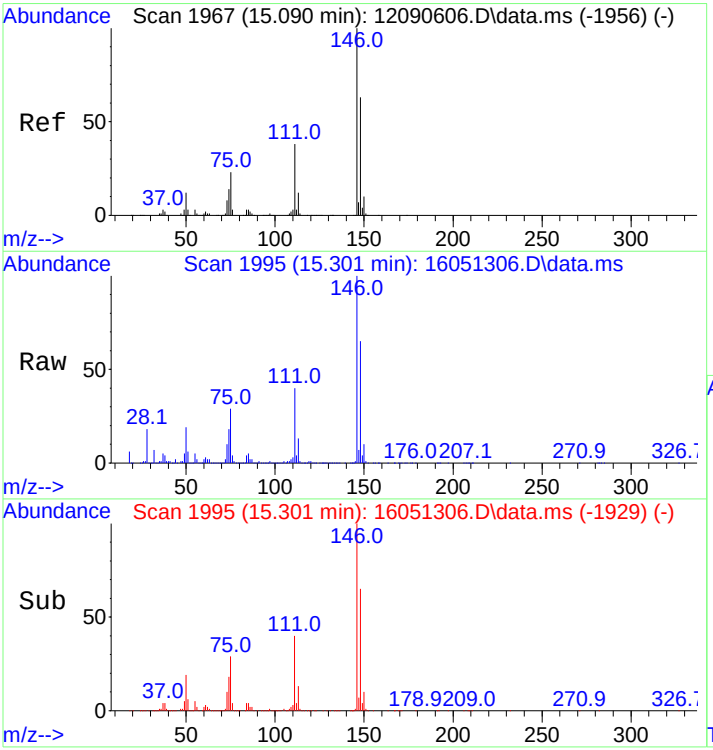


#53
1,2,4-Trimethylbenzene
Concen: 98.34 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 345983

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.5	56.3

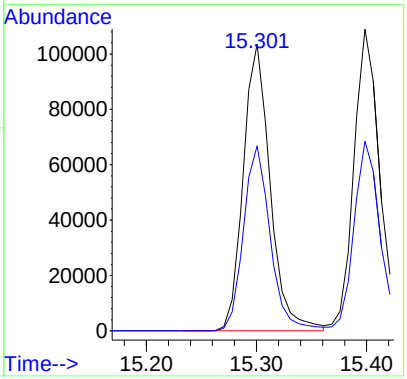


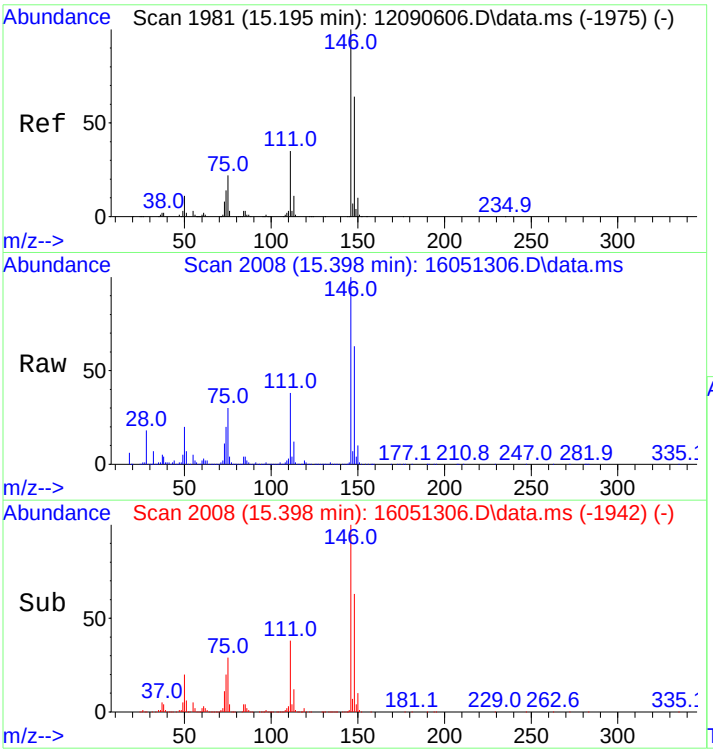


#54
1,3-Dichlorobenzene
Concen: 95.79 ng
RT: 15.301 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:146 Resp: 175886

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.6	76.0

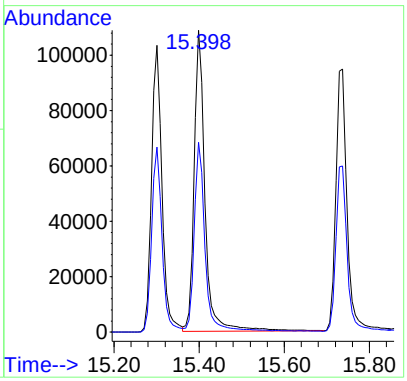


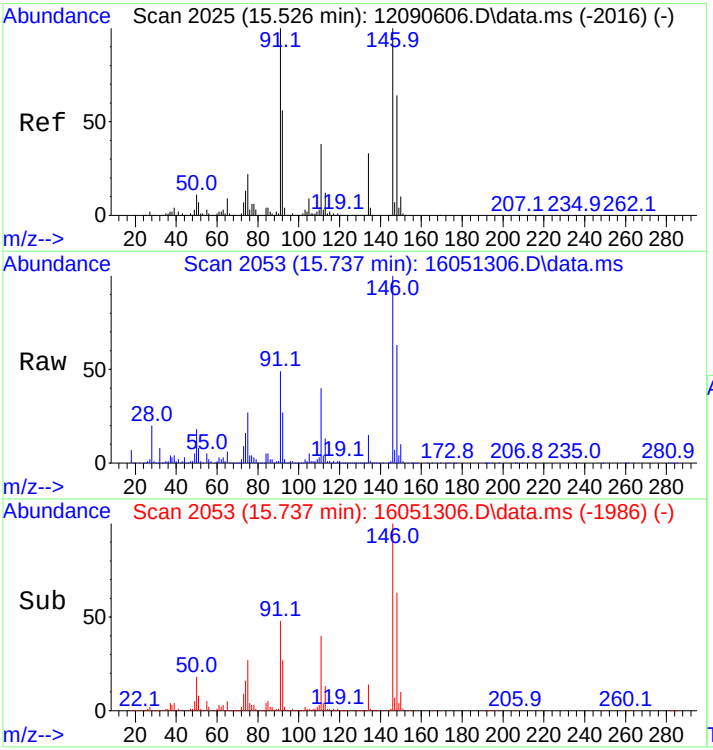


#55
1,4-Dichlorobenzene
Concen: 99.33 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:146 Resp: 192775

Ion	Ratio	Lower	Upper
146	100		
148	61.8	49.9	74.9

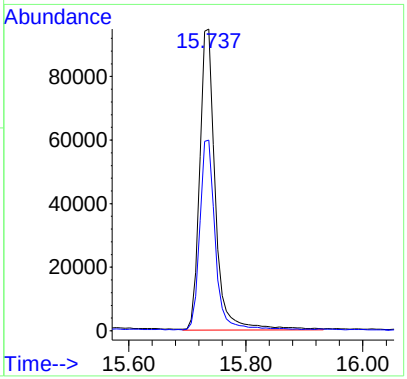


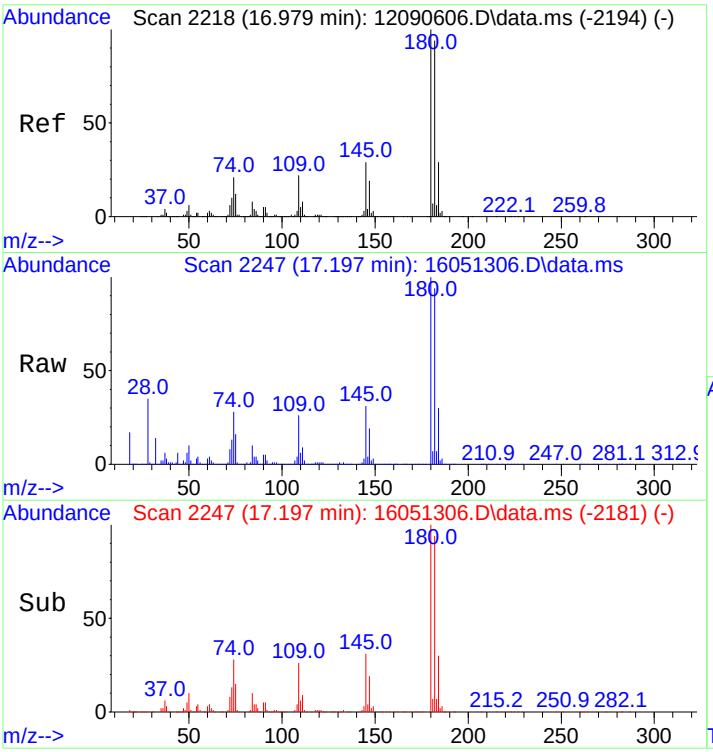


#56
1,2-Dichlorobenzene
Concen: 101.84 ng
RT: 15.737 min Scan# 2053
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:146 Resp: 176864

Ion	Ratio	Lower	Upper
146	100		
148	62.3	49.9	74.9

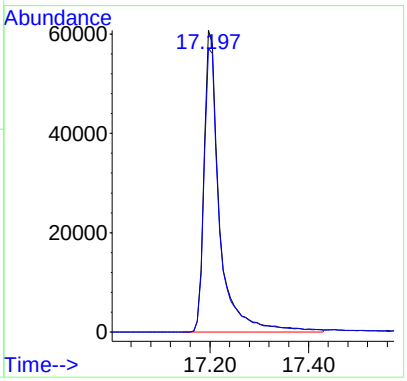


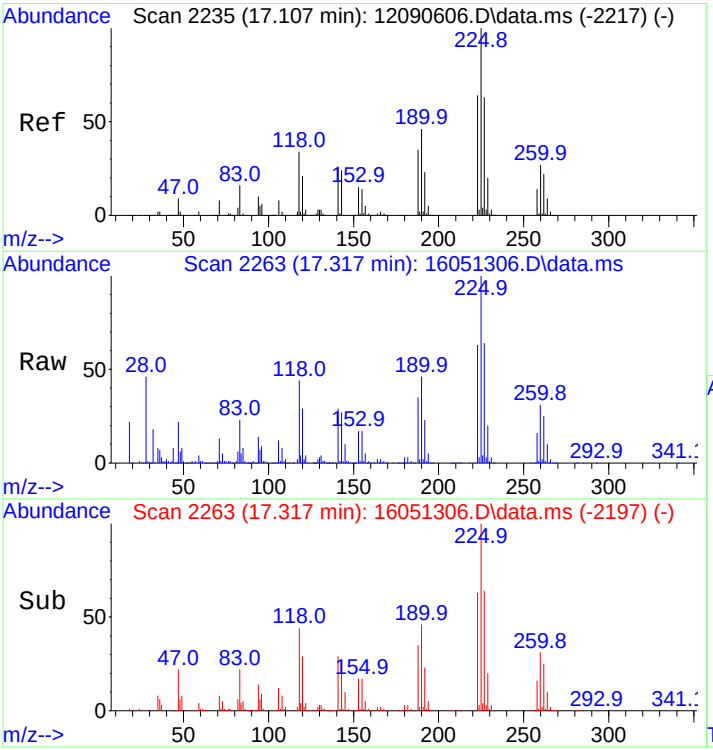


#57
1,2,4-Trichlorobenzene
Concen: 91.04 ng
RT: 17.197 min Scan# 2247
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:180 Resp: 134091

Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.0	112.4

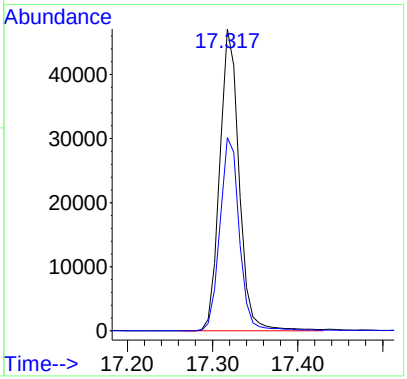


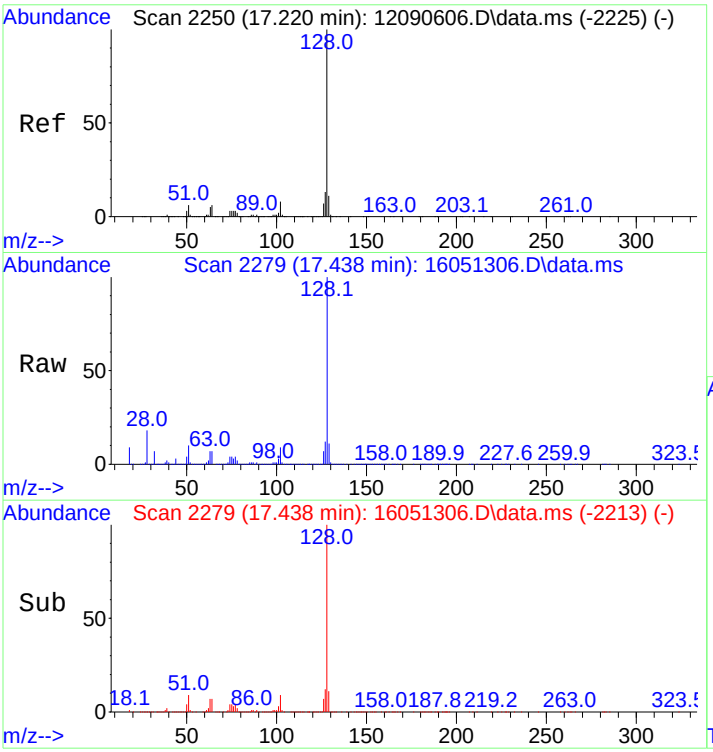


#58
Hexachlorobutadiene
Concen: 96.48 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:225 Resp: 74698

Ion	Ratio	Lower	Upper
225	100		
227	64.4	51.1	76.7

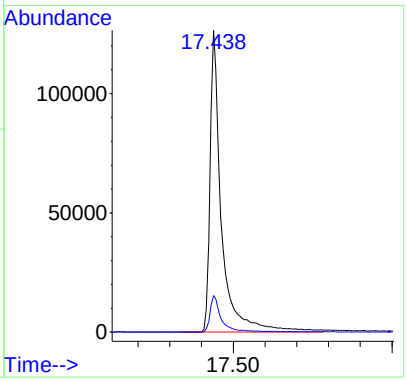


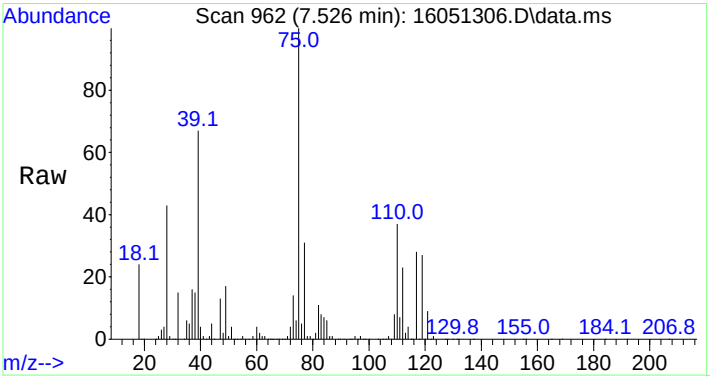


#59
Naphthalene
Concen: 87.33 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:128 Resp: 315713

Ion	Ratio	Lower	Upper
128	100		
127	11.7	9.8	14.8

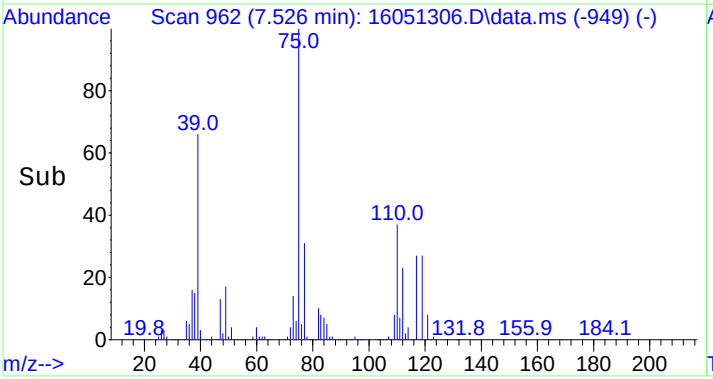


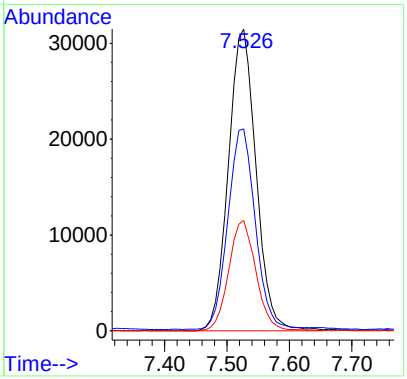


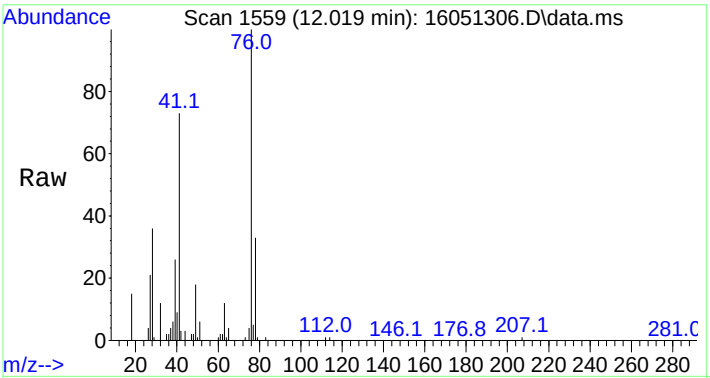
#60
1,1-Dichloropropene
Concen: 96.69 ng
RT: 7.526 min Scan# 962
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 75 Resp: 97323

Ion	Ratio	Lower	Upper
75	100		
39	66.7	51.7	77.5
110	36.0	29.3	43.9



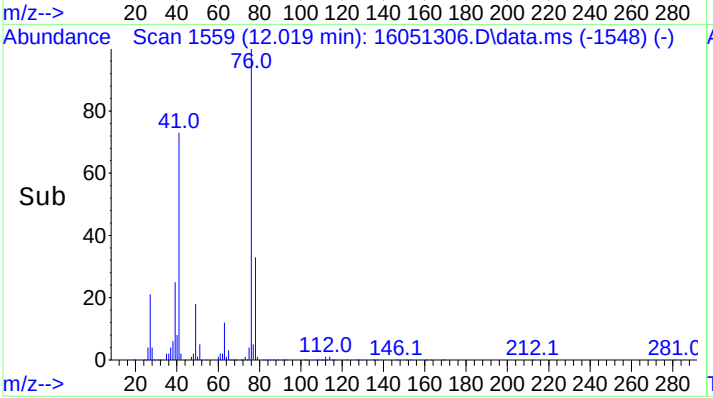


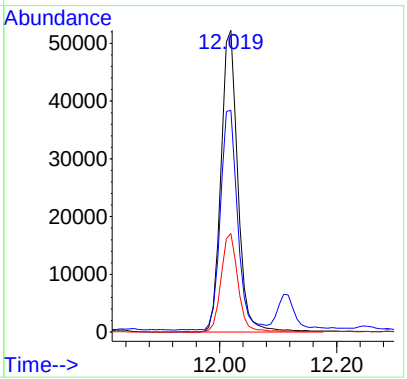


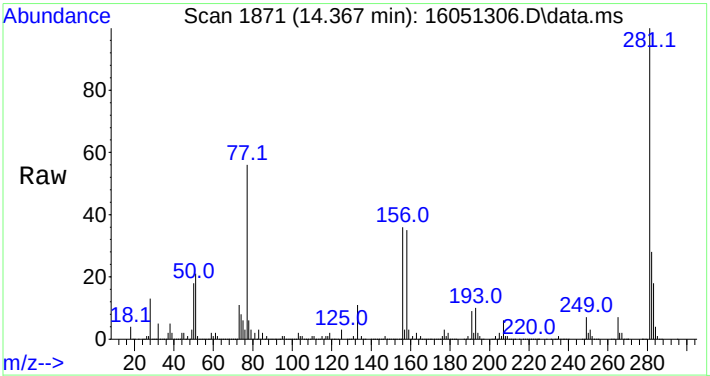
#61
1,3-Dichloropropane
Concen: 93.01 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 76 Resp: 104409

Ion	Ratio	Lower	Upper
76	100		
41	73.8	58.2	87.4
78	32.7	26.1	39.1



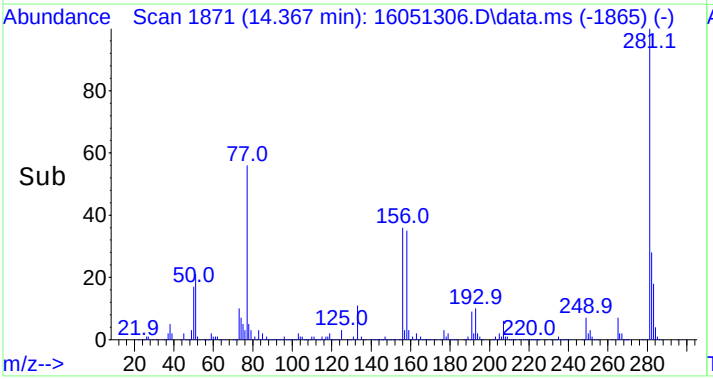


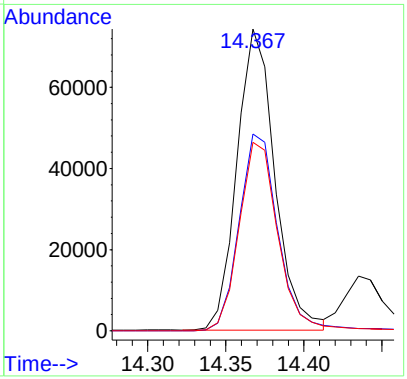


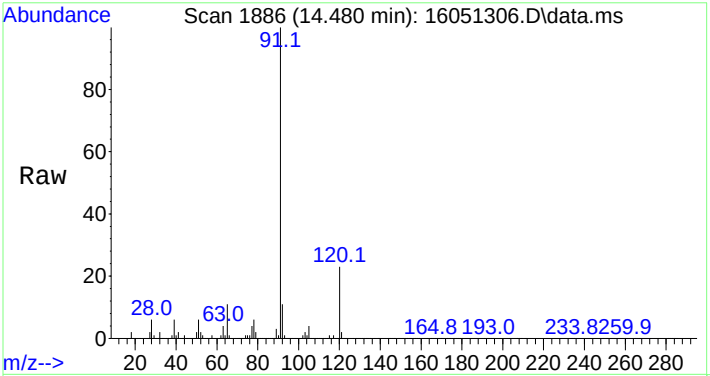
#62
Bromobenzene
Concen: 96.40 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 77 Resp: 125421

Ion	Ratio	Lower	Upper
77	100		
156	68.3	55.0	82.4
158	65.3	53.3	79.9



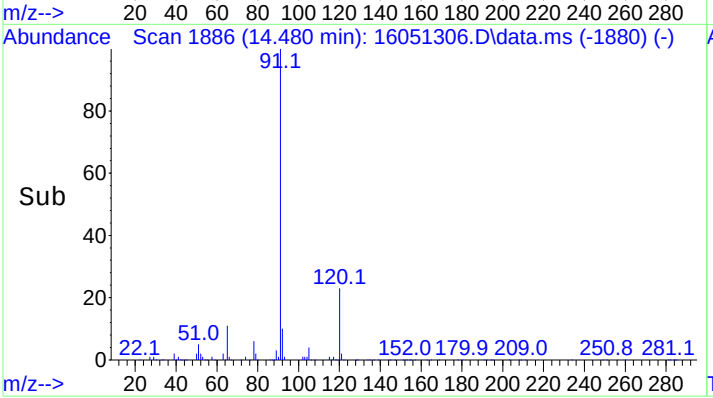


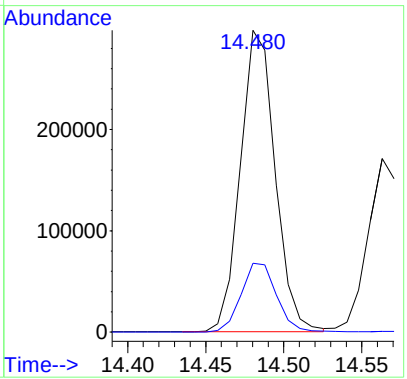


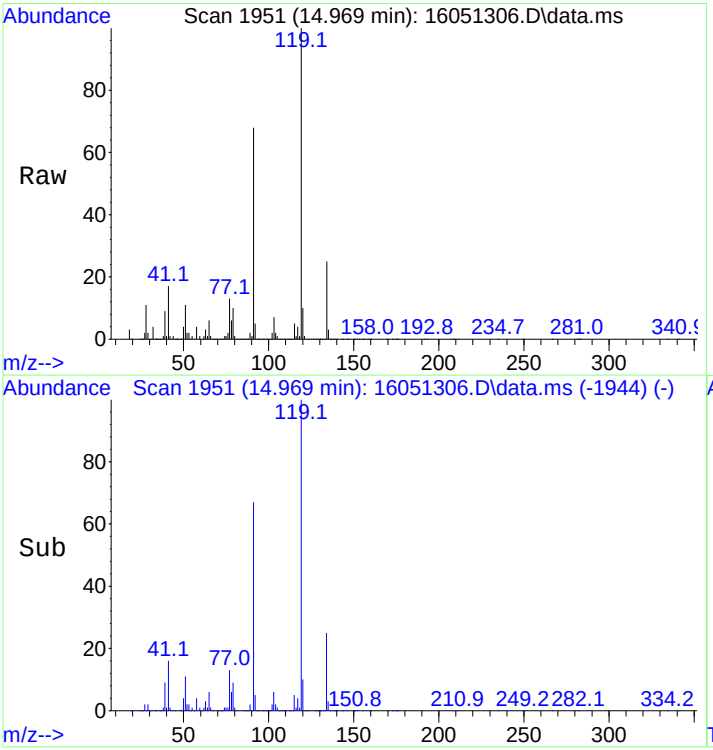
#63
n-Propylbenzene
Concen: 99.79 ng
RT: 14.480 min Scan# 1886
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 461715

Ion	Ratio	Lower	Upper
91	100		
120	23.4	18.6	28.0



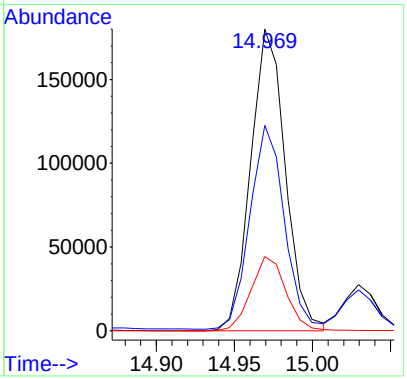


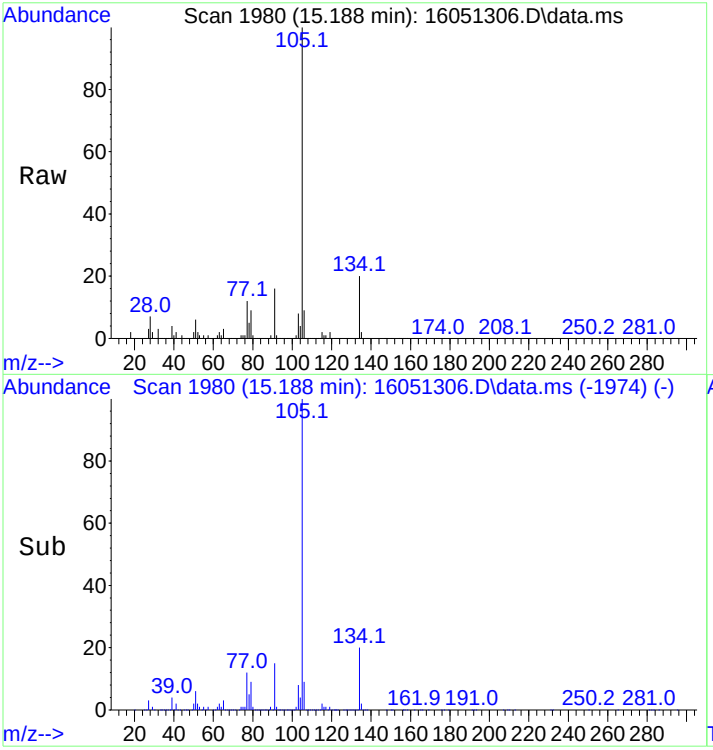


#64
tert-Butylbenzene
Concen: 100.51 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:119 Resp: 278375

Ion	Ratio	Lower	Upper
119	100		
91	67.0	54.0	81.0
134	25.1	19.9	29.9

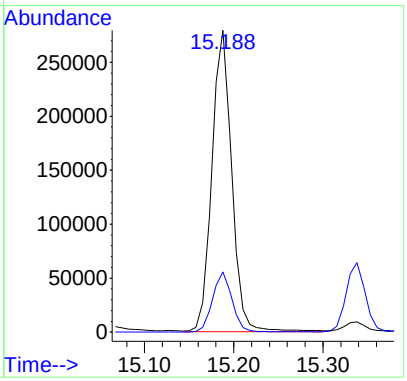


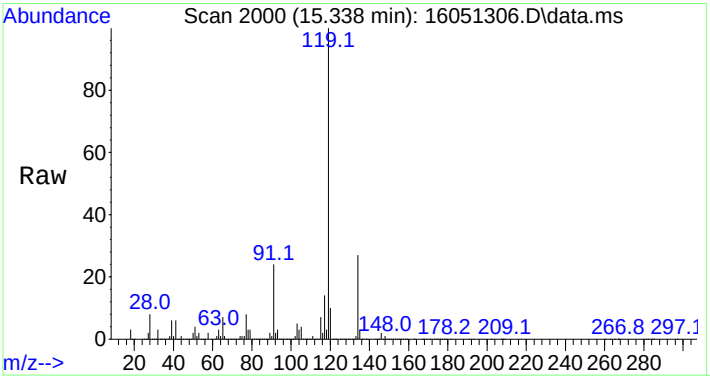


#65
sec-Butylbenzene
Concen: 101.06 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:105 Resp: 431349

Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.7	23.5

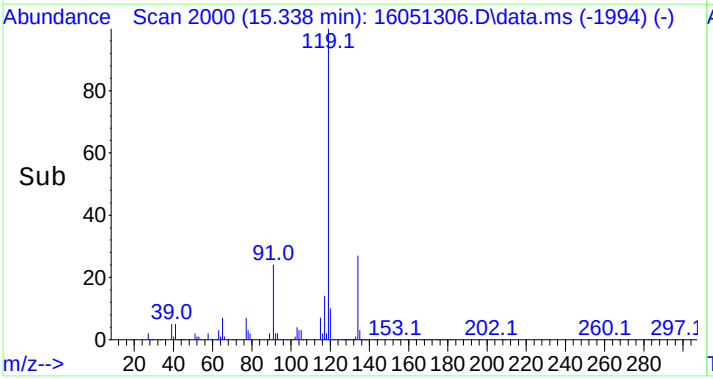


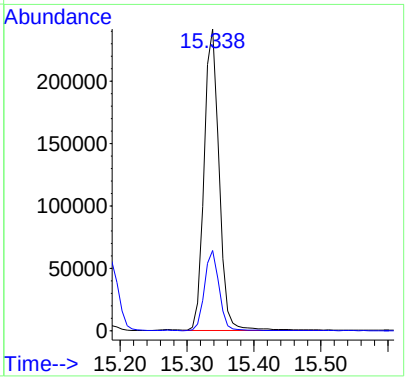


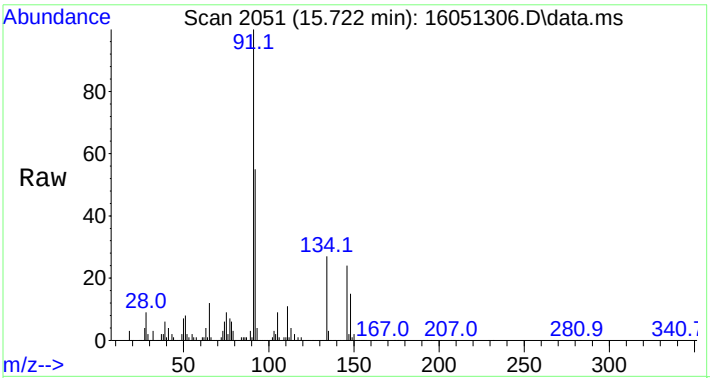
#66
p-Isopropyltoluene
Concen: 100.57 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:119 Resp: 378421

Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.6	31.0



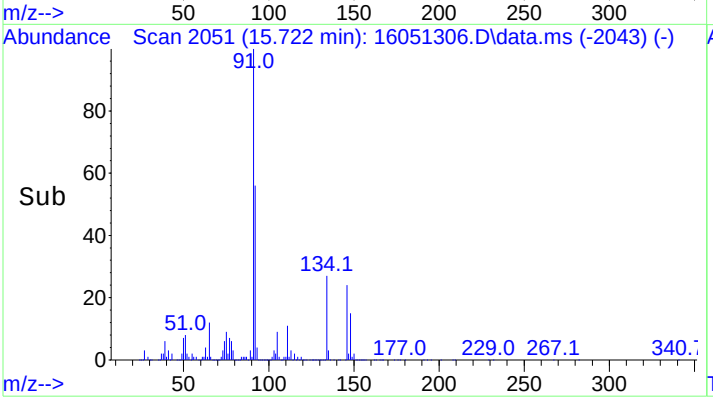


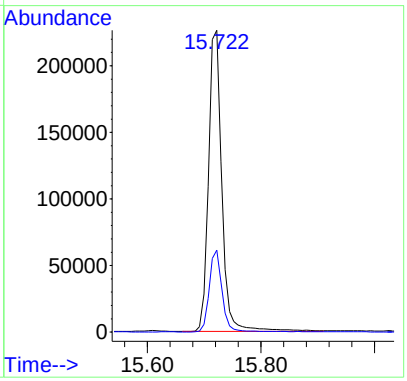


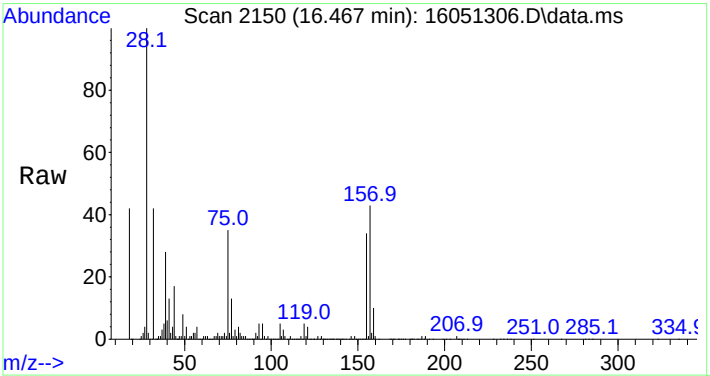
#67
n-Butylbenzene
Concen: 101.30 ng
RT: 15.722 min Scan# 2051
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion: 91 Resp: 368507

Ion	Ratio	Lower	Upper
91	100		
134	26.2	21.0	31.6



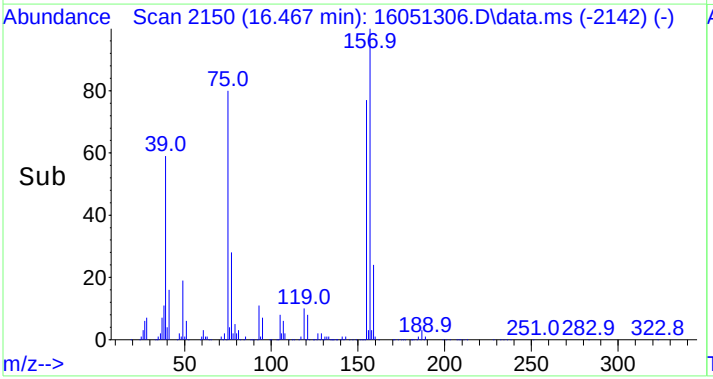


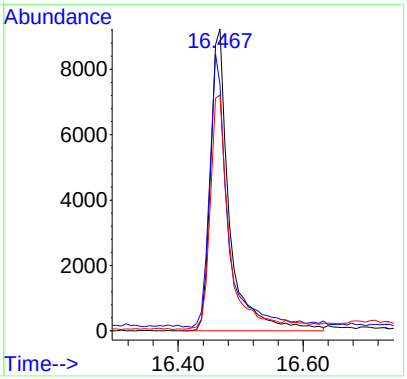


#68
1,2-Dibromo-3-chloropropane
Concen: 84.92 ng
RT: 16.467 min Scan# 2150
Delta R.T. 0.008 min
Lab File: 16051306.D
Acq: 13 May 2016 1:51 pm

Tgt Ion:157 Resp: 19430

Ion	Ratio	Lower	Upper
157	100		
75	87.3	68.6	103.0
155	77.9	62.2	93.2





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051307.D
Acq On : 13 May 2016 2:29 pm
Operator : SG Instrument MSD-3
Sample : 150NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:42:36 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:40:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.759	130	95017	250.00 ng	0.00
20) 1,4-Difluorobenzene	8.685	114	513355	250.00 ng	0.00
32) d5-Chlorobenzene	12.953	117	325235	250.00 ng	0.00
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.843	65	153130	220.22 ng	0.00
Spiked Amount 250.000			Recovery	= 88.09%	
48) d10-Ethylbenzene(SPK)	13.020	98	425785	190.46 ng	0.00
Spiked Amount 200.000			Recovery	= 95.23%	
49) d8-Toluene(SURR)	11.101	98	489623	254.12 ng	0.00
Spiked Amount 250.000			Recovery	= 101.65%	
50) 4-Bromofluorobenzene(S...	14.239	95	152341	237.81 ng	0.00
Spiked Amount 250.000			Recovery	= 95.12%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.724	85	97272	154.31 ng	100
3) Chloromethane	1.905	50	110209	147.42 ng	100
4) Vinyl Chloride	2.018	62	154156	171.57 ng	98
5) Bromomethane	2.371	94	69034	172.88 ng	97
6) Chloroethane	2.477	64	77191	165.00 ng	100
7) Trichlorofluoromethane	2.755	101	209702	156.47 ng	100
8) 1,1-Dichloroethene	3.372	61	260869	161.50 ng	99
9) Acetone	3.417	43	82347	136.98 ng	100
10) Iodomethane	3.560	142	62839	98.08 ng	100
11) Carbon disulfide	3.651	76	376128	148.75 ng	100
12) Methylene Chloride	4.072	49	175596	157.09 ng	100
13) trans,1,2-Dichloroethene	4.509	61	151469	141.27 ng	100
14) 1,1-Dichloroethane	5.284	63	174237	131.02 ng	100
15) Vinyl Acetate	5.329	43	114230	168.59 ng	99
16) cis,1,2-Dichloroethene	6.330	61	184834	148.74 ng	98
17) 2-Butanone	6.330	43	79047	183.91 ng	99
18) Chloroform	6.985	83	174989	140.27 ng	100
19) 1,1,1-Trichloroethane	7.225	97	103498	145.08 ng	99
22) Carbon Tetrachloride	7.496	117	134685	137.33 ng	100
23) Benzene	7.858	78	538255	144.83 ng	100
24) 1,2-Dichloroethane	7.986	62	139424	131.05 ng	99
25) Trichloroethene	9.062	95	123916	148.72 ng	99
26) 1,2-Dichloropropane	9.521	63	126079	148.00 ng	100
27) Dibromomethane	9.656	93	58713	123.05 ng	100
28) Bromodichloromethane	10.010	83	136001	146.62 ng	99
29) cis,1,3-Dichloropropene	10.732	75	132539	139.48 ng	99
30) trans,1,3-Dichloropropene	11.568	75	90868	140.59 ng	97
31) 4-Methyl-2-Pentanone	10.973	43	184009	146.68 ng	99
33) Toluene	11.199	91	475435	147.38 ng	99
34) 1,1,2-Trichloroethane	11.816	83	90950	163.14 ng	99
35) Tetrachloroethene	11.884	166	132395	156.71 ng	99
36) 2-Hexanone	12.110	43	113133	136.70 ng	99
37) Chlorodibromomethane	12.275	129	121809	161.09 ng	99
38) Ethylene Dibromide	12.396	107	105782	153.25 ng	98
39) Chlorobenzene	12.983	112	290708	146.66 ng	98
40) 1,1,1,2-Tetrachloroethane	13.095	131	111624	158.67 ng	99
41) Ethylbenzene	13.111	91	536782	146.47 ng	100
42) M&P-Xylene	13.261	91	931856	299.03 ng	100
43) O-Xylene	13.667	91	474591	146.90 ng	99
44) Styrene	13.698	104	399706	144.94 ng	99
45) Bromoform	13.878	173	94490	158.55 ng	100
46) 1,1,2,2-Tetrachloroethane	14.390	83	148473m	153.83 ng	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051307.D
Acq On : 13 May 2016 2:29 pm
Operator : SG
Sample : 150NG-VOSTSTD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:42:36 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:40:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47)	1,2,3-Trichloropropane	14.435	75	121144m	151.93	ng	
51)	Isopropylbenzene	14.059	105	550224	146.55	ng	100
52)	1,3,5-Trimethylbenzene	14.668	105	546538	149.36	ng	100
53)	1,2,4-Trimethylbenzene	15.030	105	530206	146.75	ng	100
54)	1,3-Dichlorobenzene	15.301	146	274957	145.82	ng	100
55)	1,4-Dichlorobenzene	15.398	146	292670	146.84	ng	99
56)	1,2-Dichlorobenzene	15.730	146	268805	150.72	ng	99
57)	1,2,4-Trichlorobenzene	17.197	180	221446	146.40	ng	98
58)	Hexachlorobutadiene	17.317	225	115820	145.67	ng	100
59)	Naphthalene	17.438	128	549907	148.11	ng	100
60)	1,1-Dichloropropene	7.526	75	164016	158.67	ng	99
61)	1,3-Dichloropropane	12.019	76	185790	161.15	ng	100
62)	Bromobenzene	14.367	77	191344	143.20	ng	99
63)	n-Propylbenzene	14.480	91	704980	148.37	ng	100
64)	tert-Butylbenzene	14.969	119	422625	148.58	ng	99
65)	sec-Butylbenzene	15.188	105	648681	147.99	ng	100
66)	p-Isopropyltoluene	15.338	119	565884	146.44	ng	99
67)	n-Butylbenzene	15.714	91	558724	149.56	ng	100
68)	1,2-Dibromo-3-chloropr...	16.459	157	28823m	122.67	ng	

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

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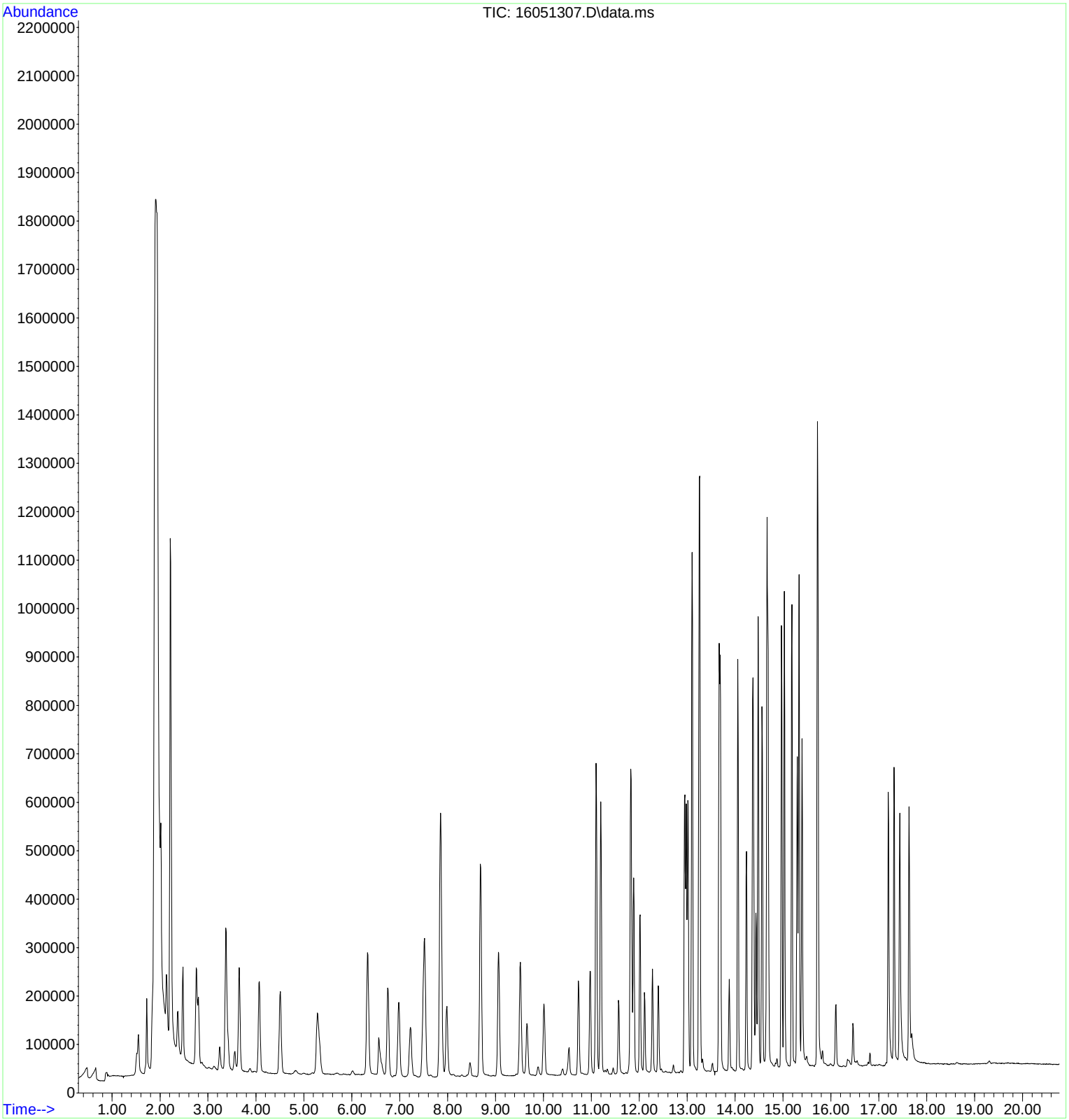
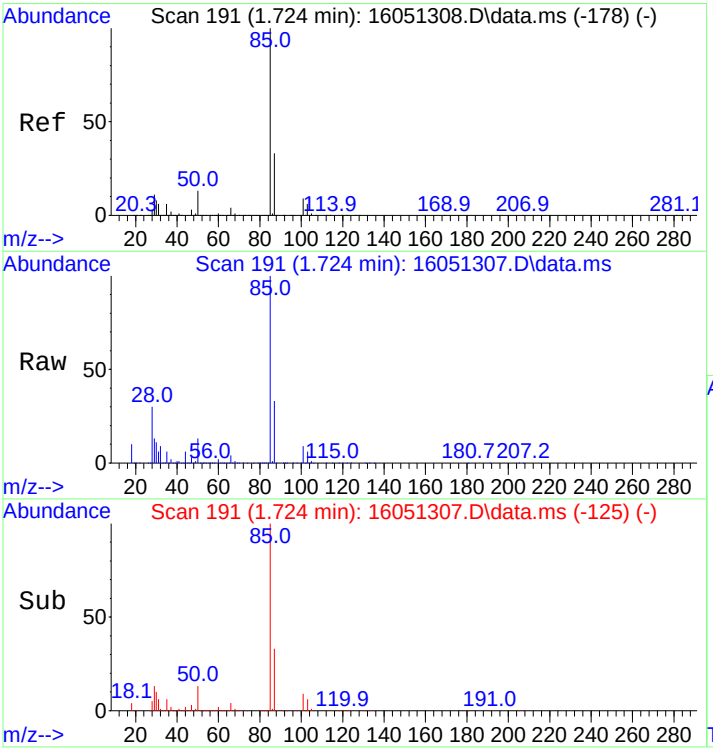
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051307.D
Acq On : 13 May 2016 2:29 pm
Operator : SG Instrument MSD-3
Sample : 150NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 13:06:07 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

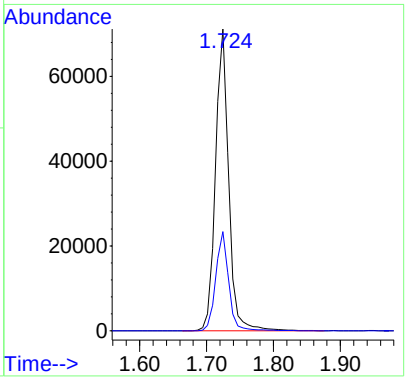


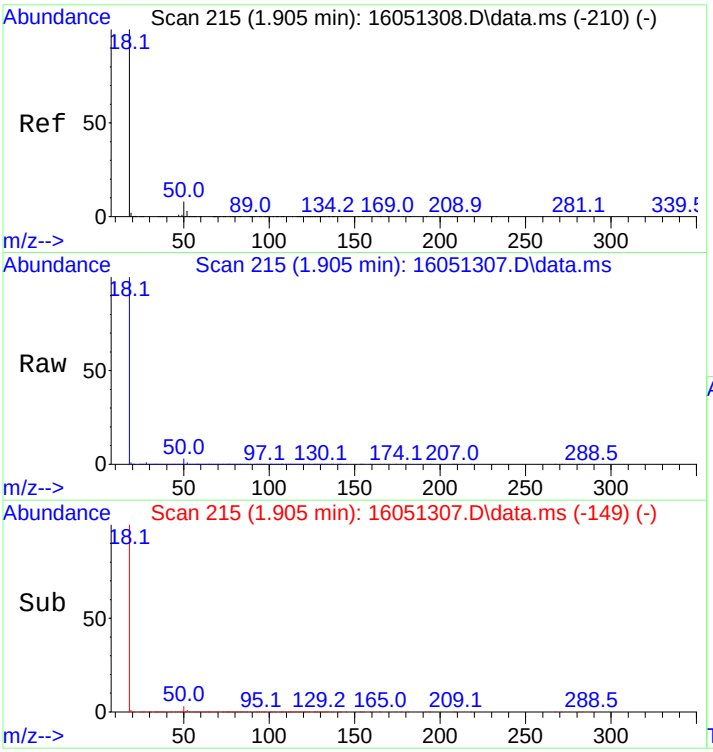


#2
Dichlorodifluoromethane
Concen: 154.31 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 85 Resp: 97272

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.0	39.0

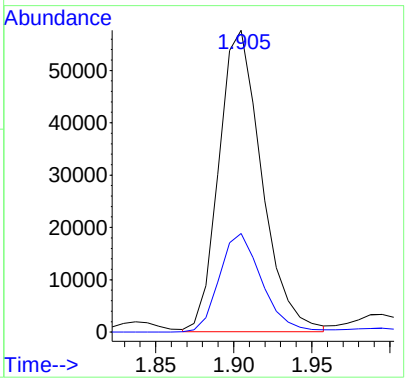


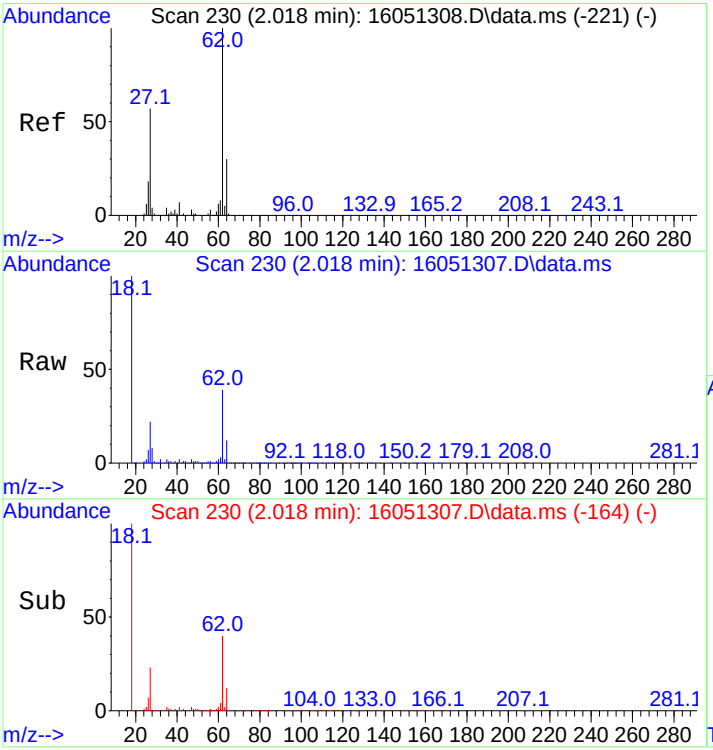


#3
Chloromethane
Concen: 147.42 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 50 Resp: 110209

Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.0	39.0

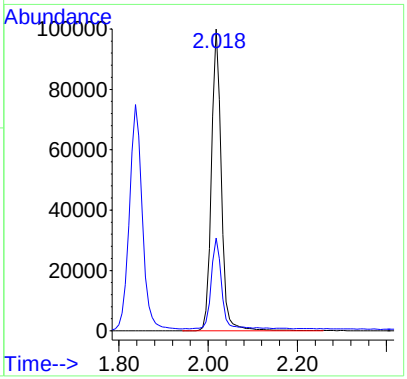


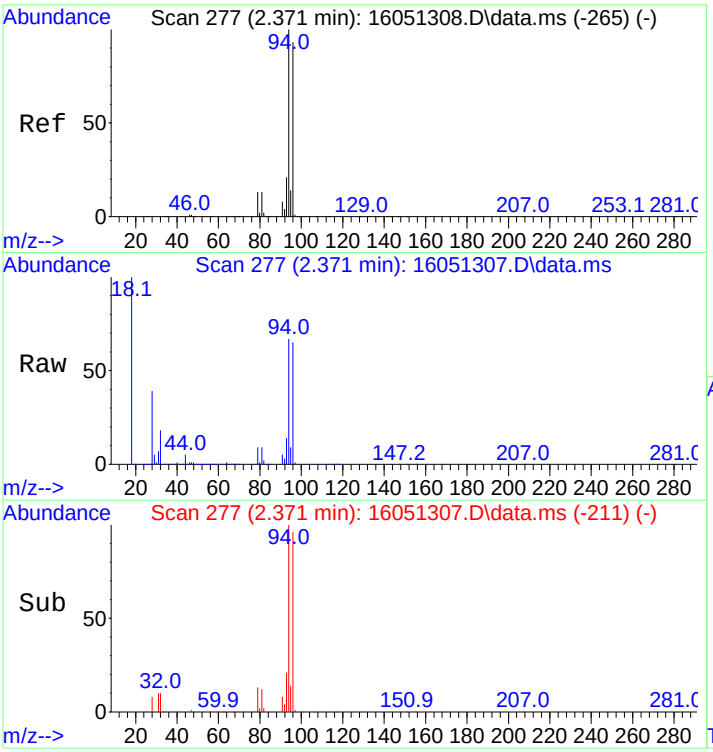


#4
Vinyl Chloride
Concen: 171.57 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 62 Resp: 154156

Ion	Ratio	Lower	Upper
62	100		
64	33.3	25.7	38.5

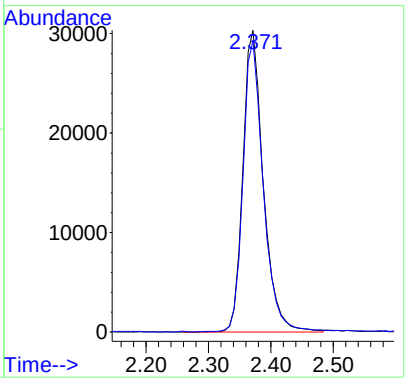


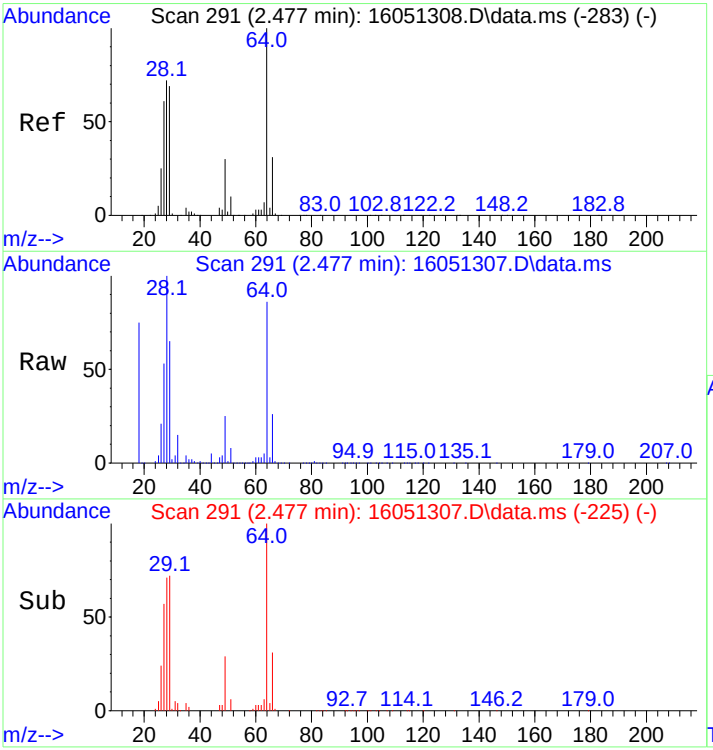


#5
Bromomethane
Concen: 172.88 ng
RT: 2.371 min Scan# 277
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 94 Resp: 69034

Ion	Ratio	Lower	Upper
94	100		
96	96.1	74.5	111.7

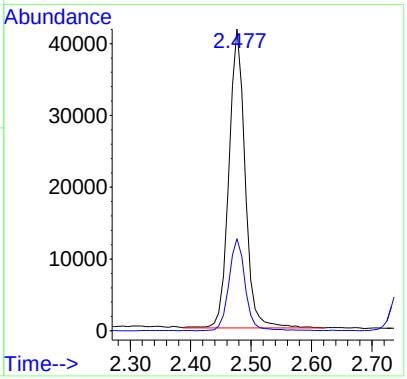


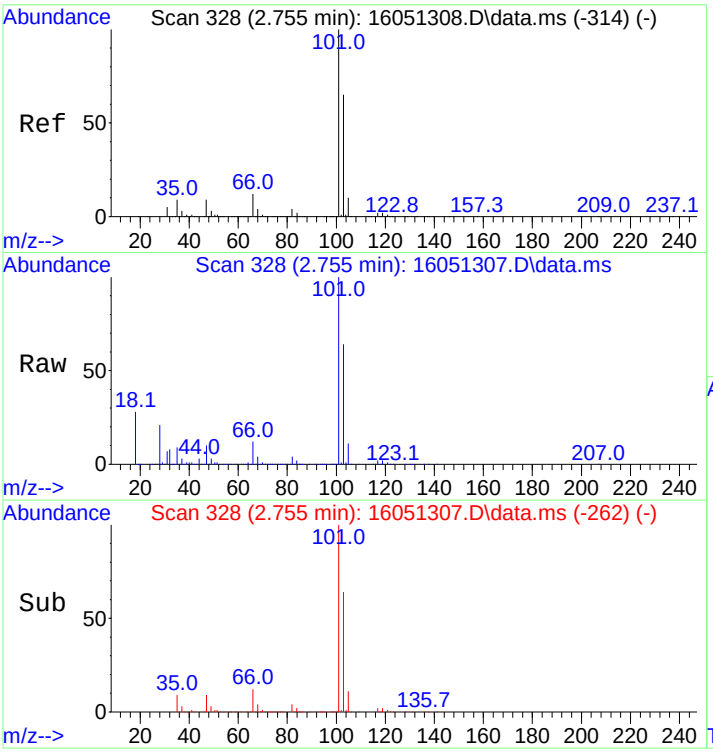


#6
Chloroethane
Concen: 165.01 ng
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 64 Resp: 77191

Ion	Ratio	Lower	Upper
64	100		
66	31.1	25.0	37.4

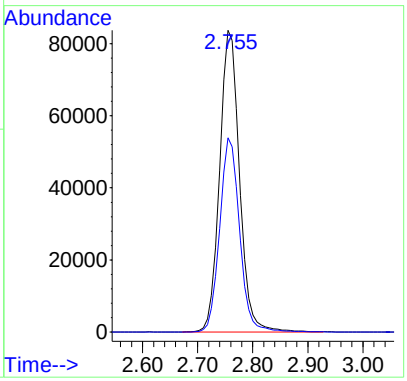


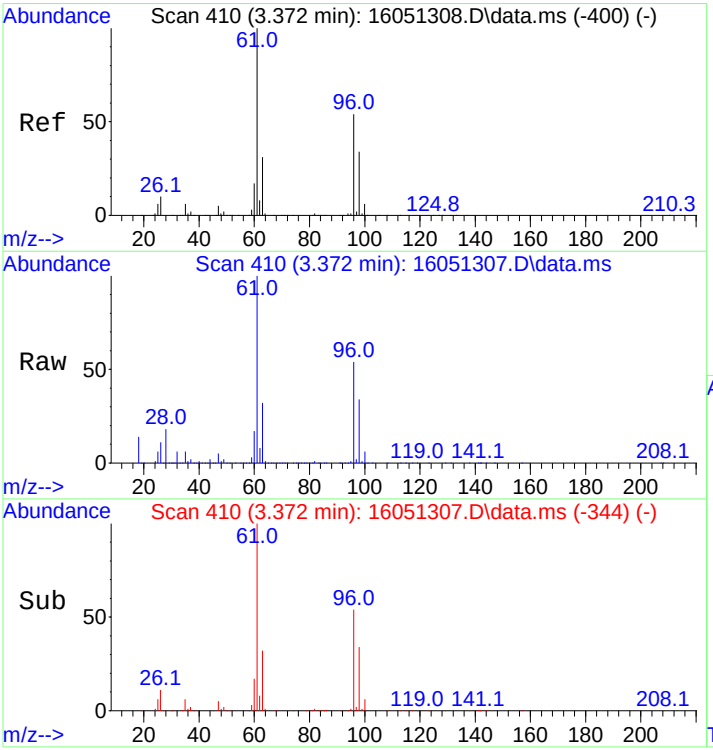


#7
Trichlorofluoromethane
Concen: 156.47 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:101 Resp: 209702

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.8	77.6

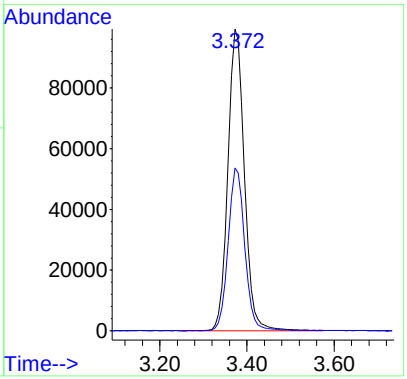


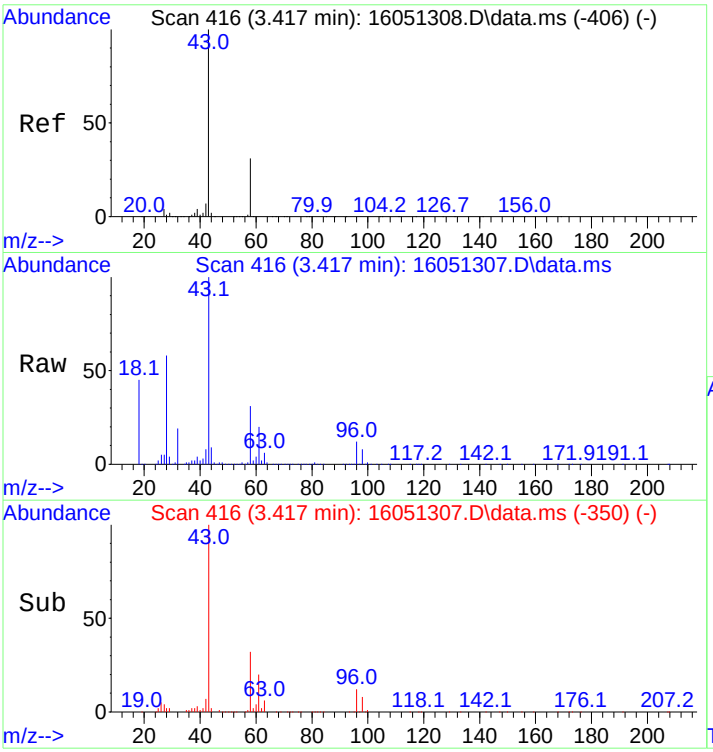


#8
1,1-Dichloroethene
Concen: 161.50 ng
RT: 3.372 min Scan# 410
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 61 Resp: 260869

Ion	Ratio	Lower	Upper
61	100		
96	54.2	44.1	66.1

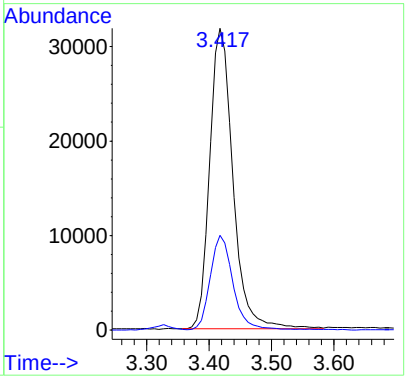


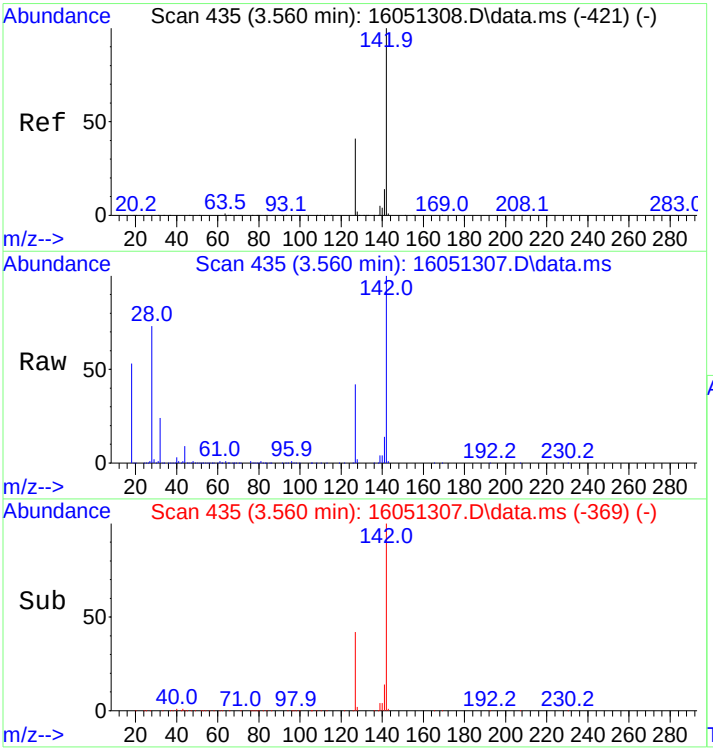


#9
Acetone
Concen: 136.98 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 82347

Ion	Ratio	Lower	Upper
43	100		
58	31.0	24.7	37.1

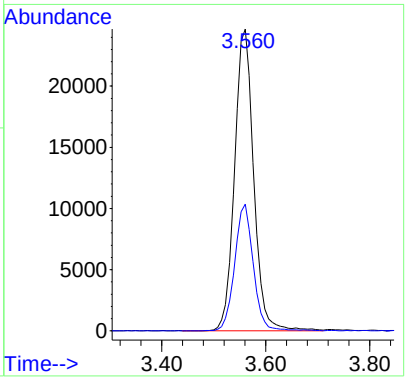


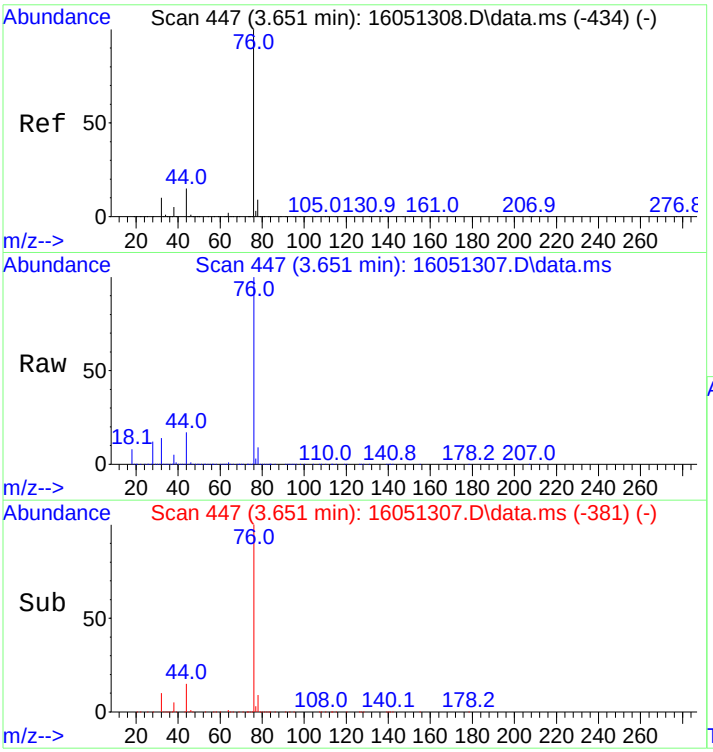


#10
Iodomethane
Concen: 98.08 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:142 Resp: 62839

Ion	Ratio	Lower	Upper
142	100		
127	41.0	32.8	49.2

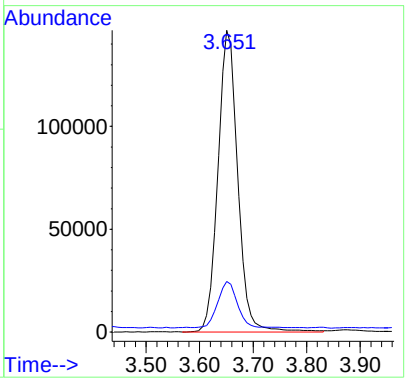


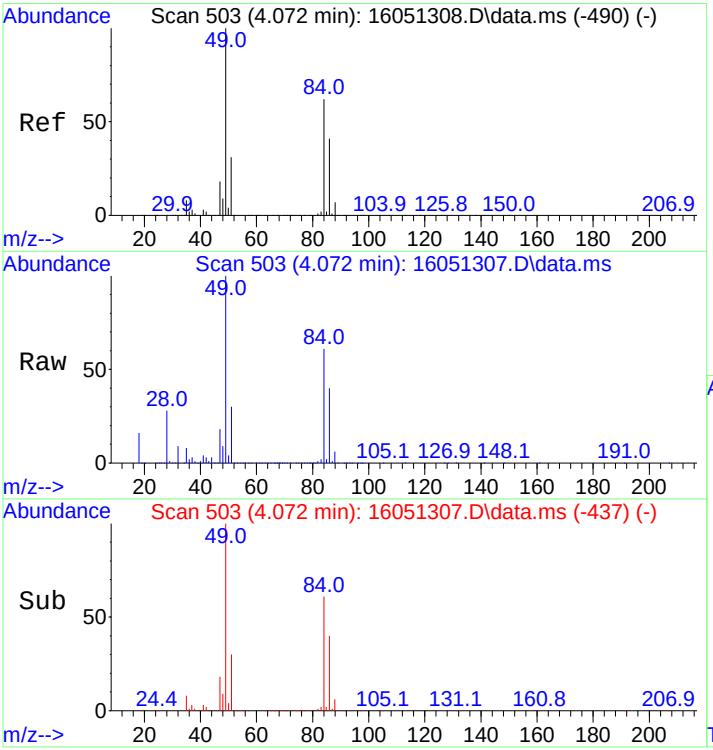


#11
Carbon disulfide
Concen: 148.75 ng
RT: 3.651 min Scan# 447
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 76 Resp: 376128

Ion	Ratio	Lower	Upper
76	100		
44	15.4	12.2	18.4

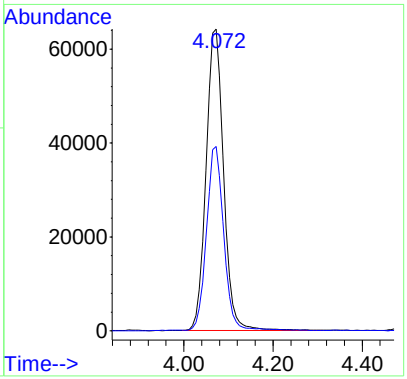


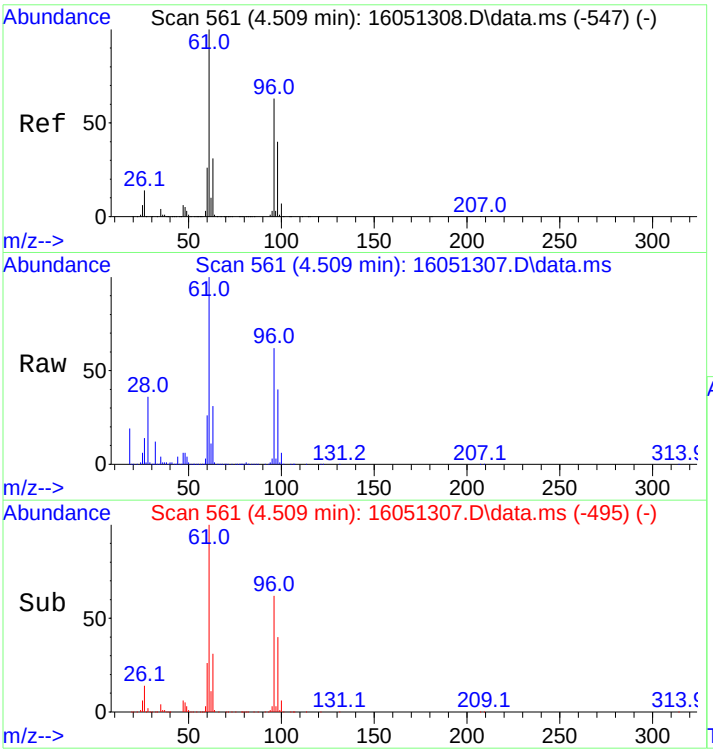


#12
Methylene Chloride
Concen: 157.09 ng
RT: 4.072 min Scan# 503
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 49 Resp: 175596

Ion	Ratio	Lower	Upper
49	100		
84	60.4	48.4	72.6

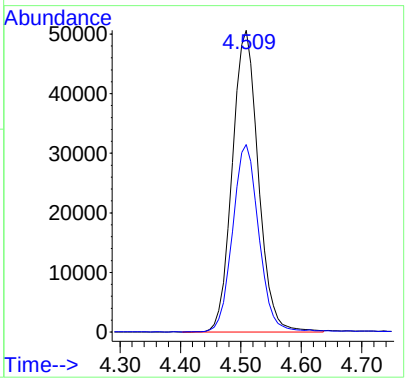


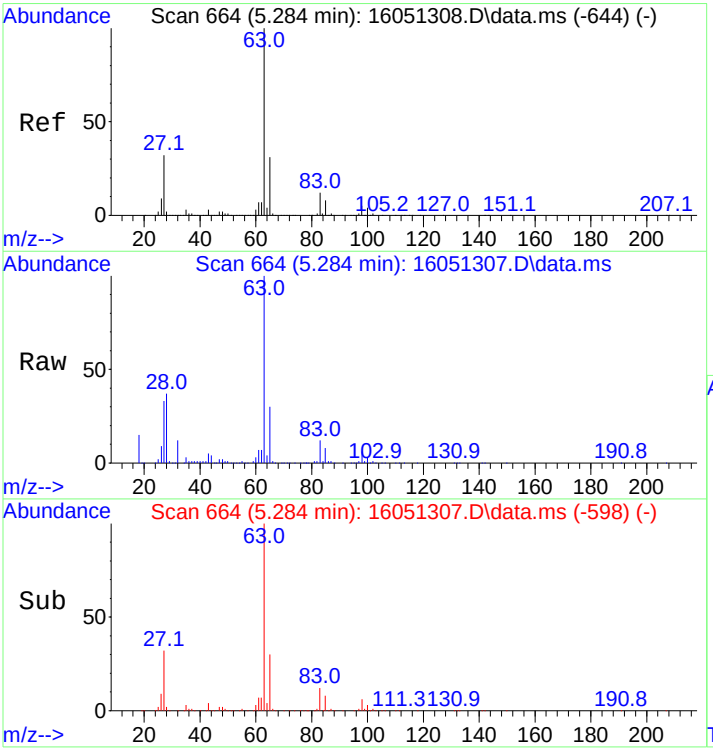


#13
trans,1,2-Dichloroethene
Concen: 141.27 ng
RT: 4.509 min Scan# 561
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 61 Resp: 151469

Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.2	75.4

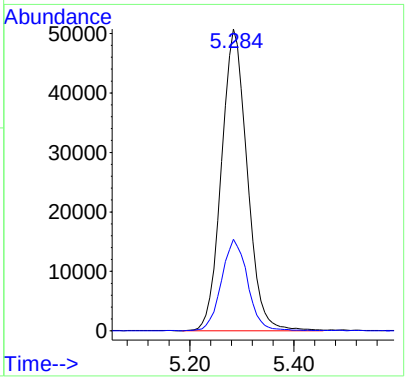


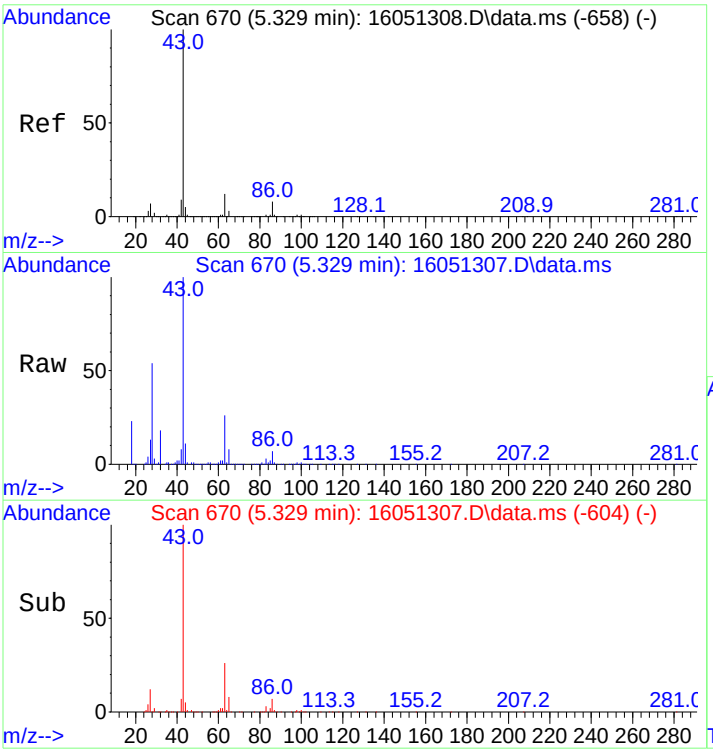


#14
1,1-Dichloroethane
Concen: 131.02 ng
RT: 5.284 min Scan# 664
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 63 Resp: 174237

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	37.0

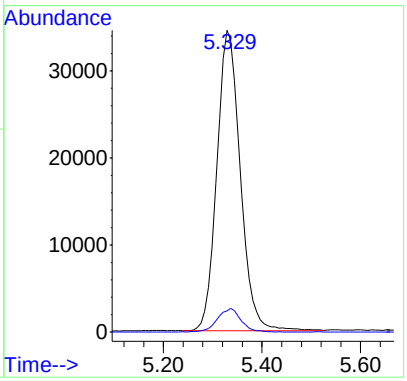


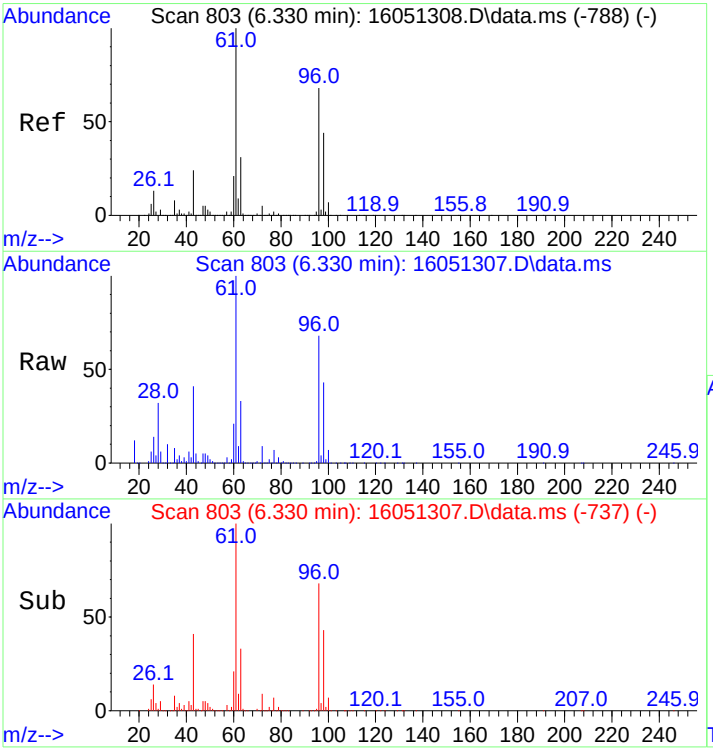


#15
Vinyl Acetate
Concen: 168.59 ng
RT: 5.329 min Scan# 670
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 114230

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.6	9.8

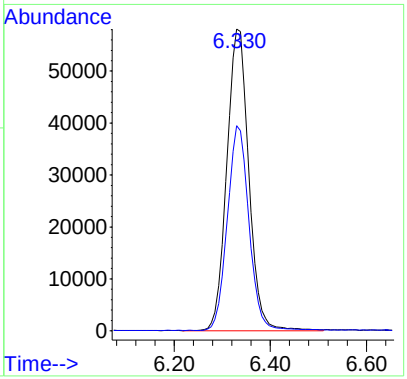


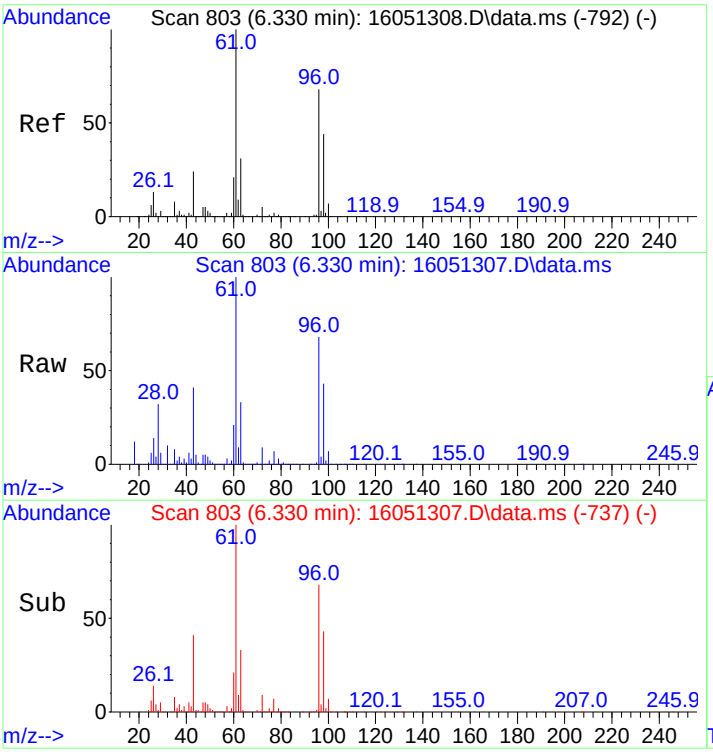


#16
cis,1,2-Dichloroethene
Concen: 148.74 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 61 Resp: 184834

Ion	Ratio	Lower	Upper
61	100		
96	66.7	54.6	81.8

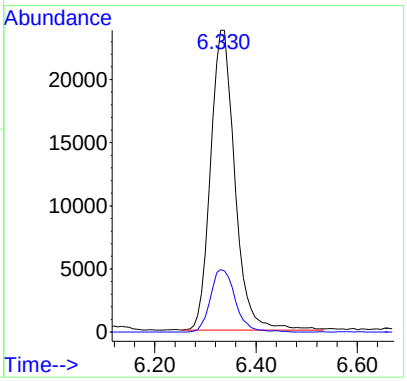


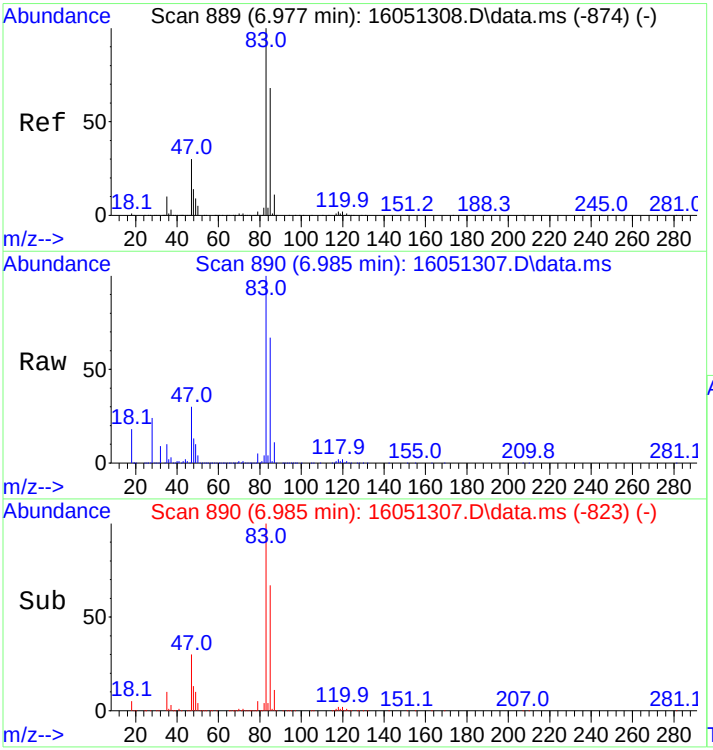


#17
2-Butanone
Concen: 183.91 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 79047

Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.4	26.2

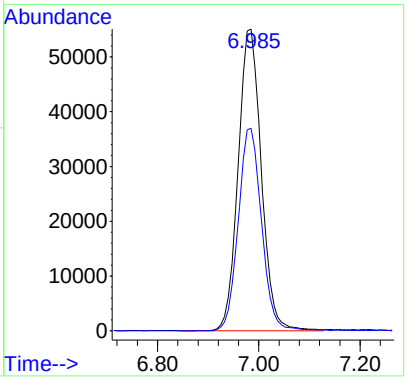


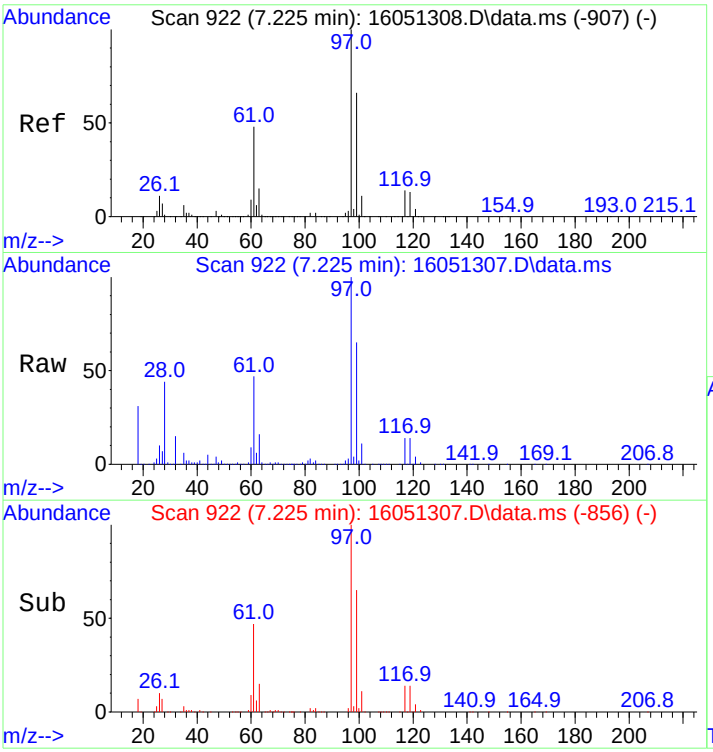


#18
Chloroform
Concen: 140.27 ng
RT: 6.985 min Scan# 890
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 174989

Ion	Ratio	Lower	Upper
83	100		
85	67.2	53.9	80.9

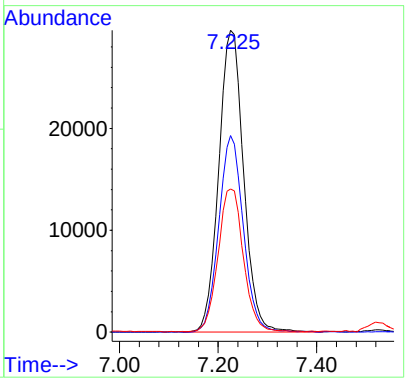


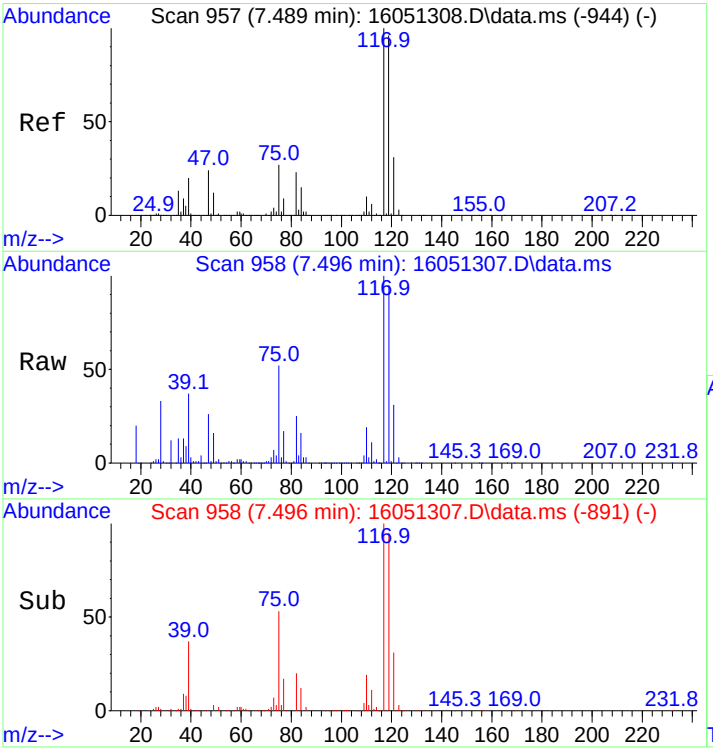


#19
1,1,1-Trichloroethane
Concen: 145.08 ng
RT: 7.225 min Scan# 922
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 97 Resp: 103498

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	48.6	37.6	56.4

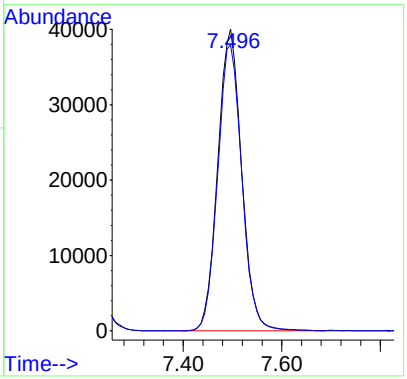


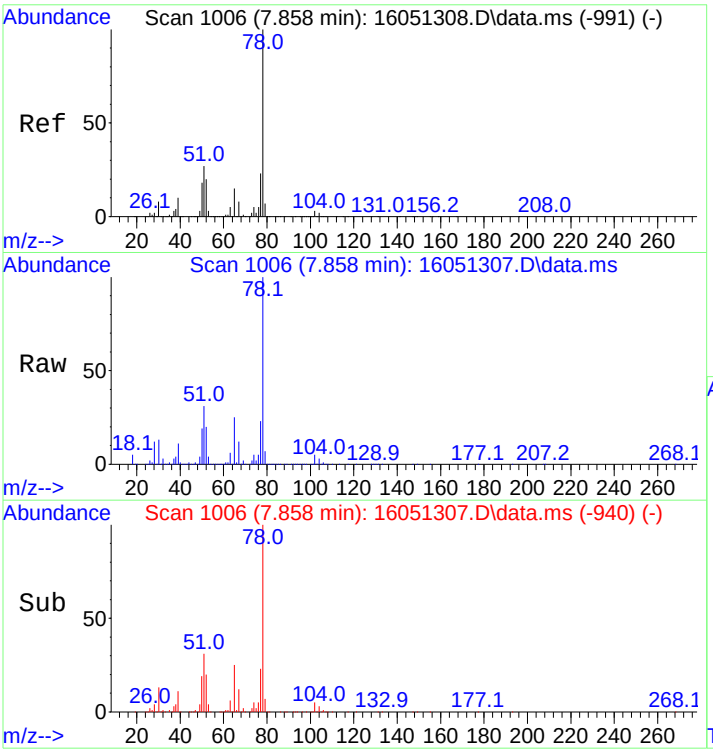


#22
Carbon Tetrachloride
Concen: 137.33 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:117 Resp: 134685

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.0	115.4

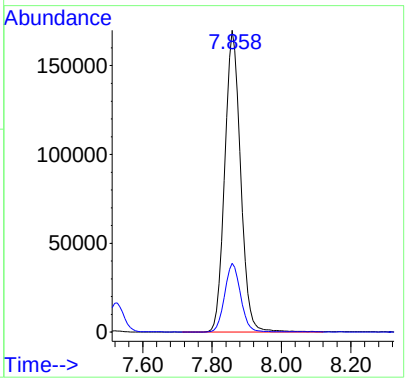


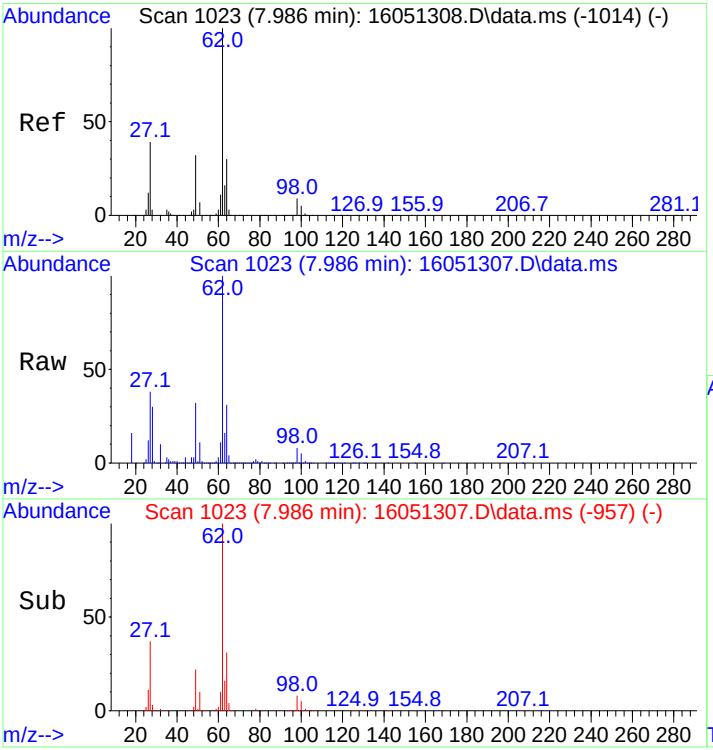


#23
Benzene
Concen: 144.83 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 78 Resp: 538255

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

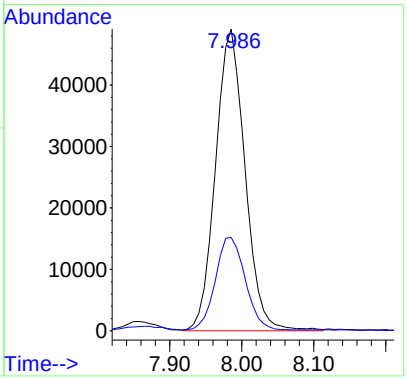


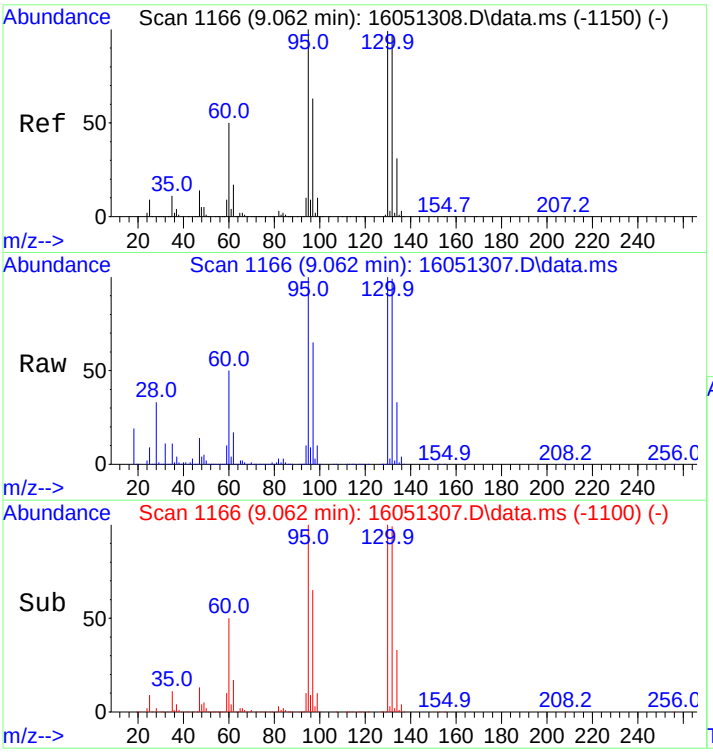


#24
1,2-Dichloroethane
Concen: 131.05 ng
RT: 7.986 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 62 Resp: 139424

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2

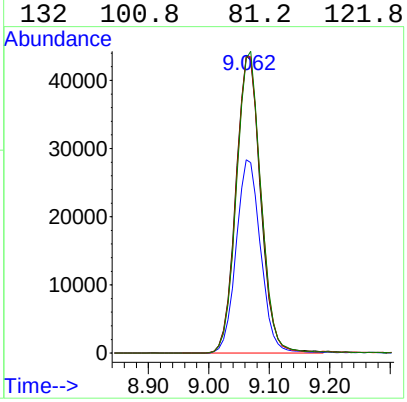


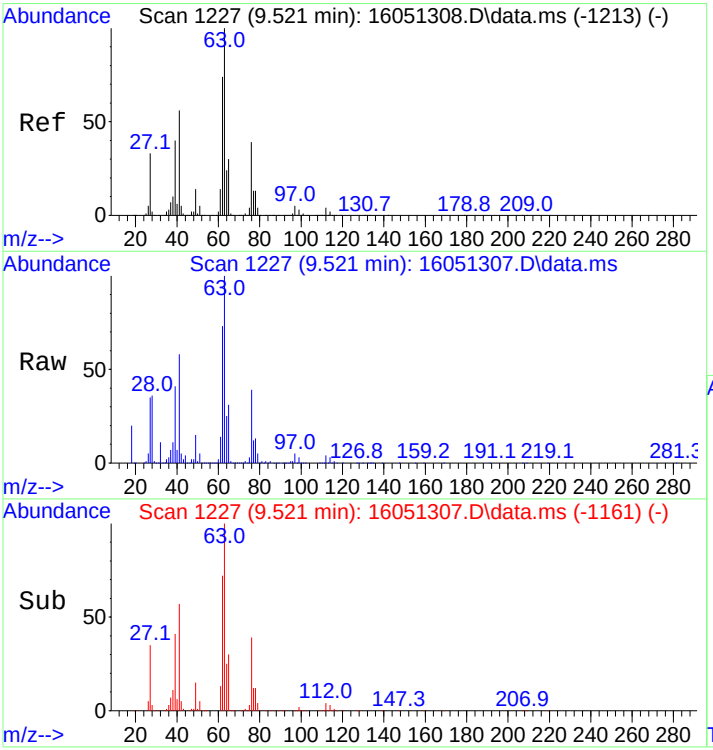


#25
Trichloroethene
Concen: 148.73 ng
RT: 9.062 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 95 Resp: 123916

Ion	Ratio	Lower	Upper
95	100		
97	64.6	51.8	77.8
130	100.3	81.9	122.9
132	100.8	81.2	121.8

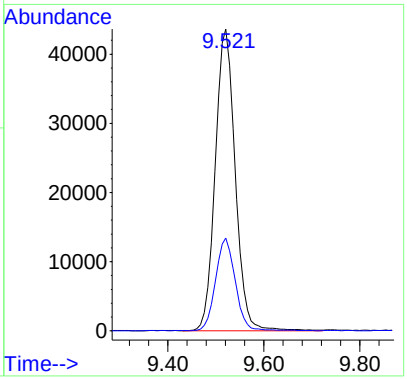


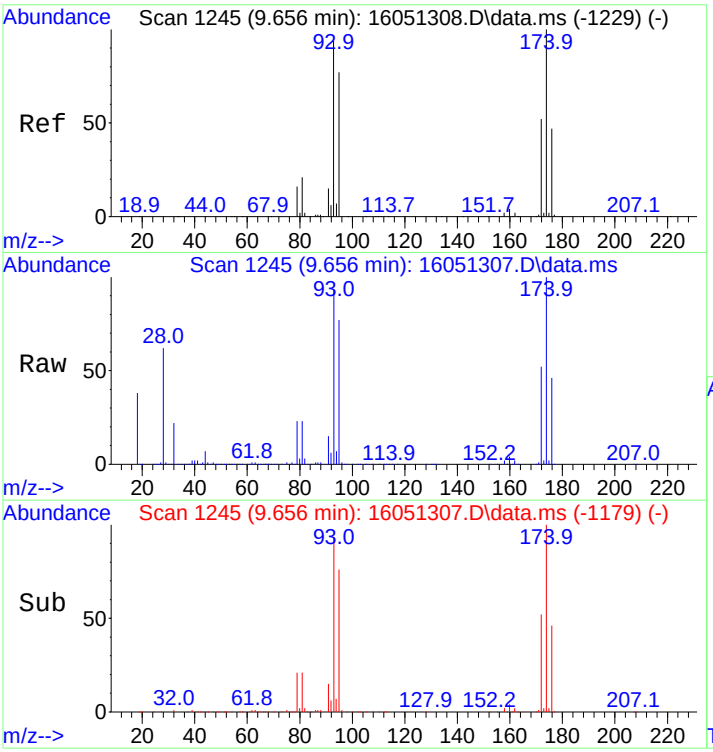


#26
1,2-Dichloropropane
Concen: 148.00 ng
RT: 9.521 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 63 Resp: 126079

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.2	36.2

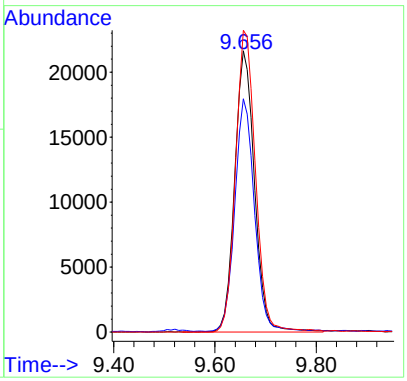


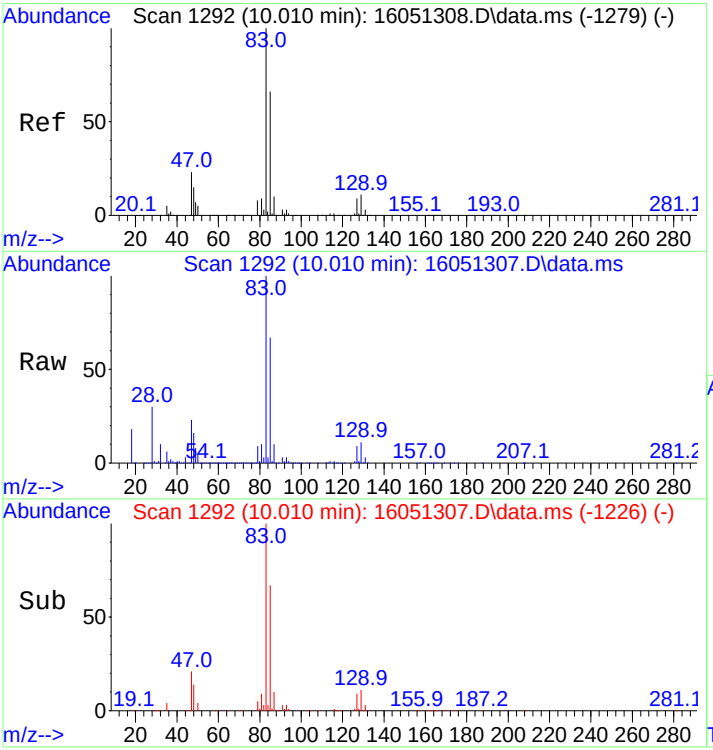


#27
Dibromomethane
Concen: 123.05 ng
RT: 9.656 min Scan# 1245
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 93 Resp: 58713

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	107.7	85.5	128.3

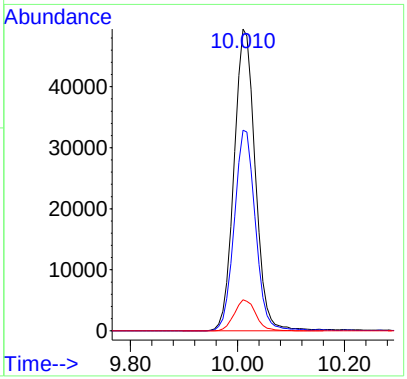


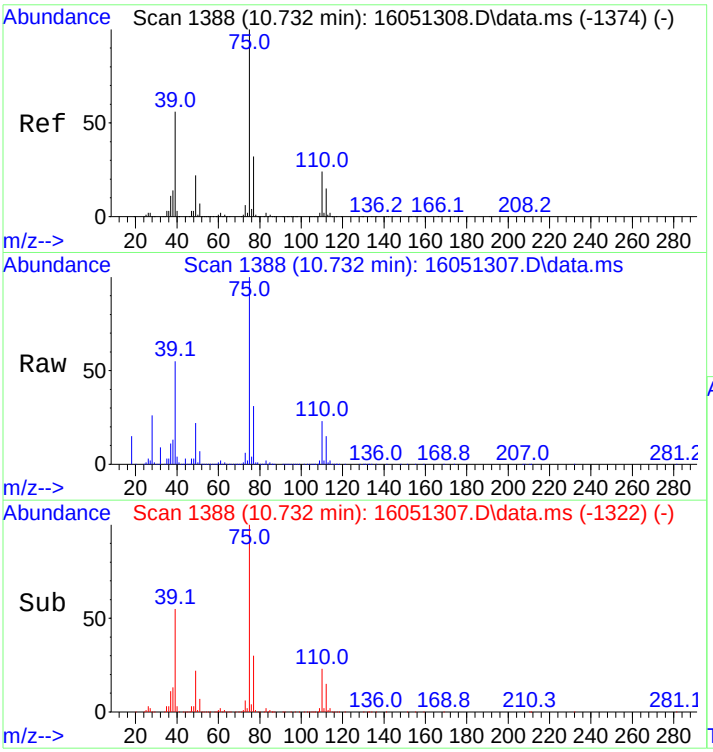


#28
Bromodichloromethane
Concen: 146.62 ng
RT: 10.010 min Scan# 1292
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 136001

Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.5	78.7
87	10.5	8.3	12.5

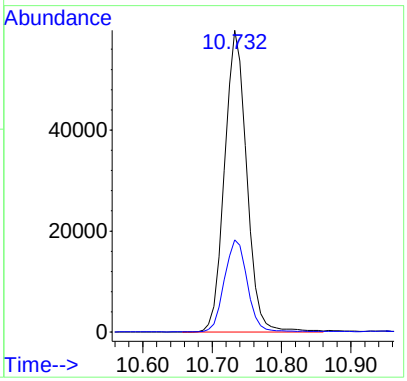


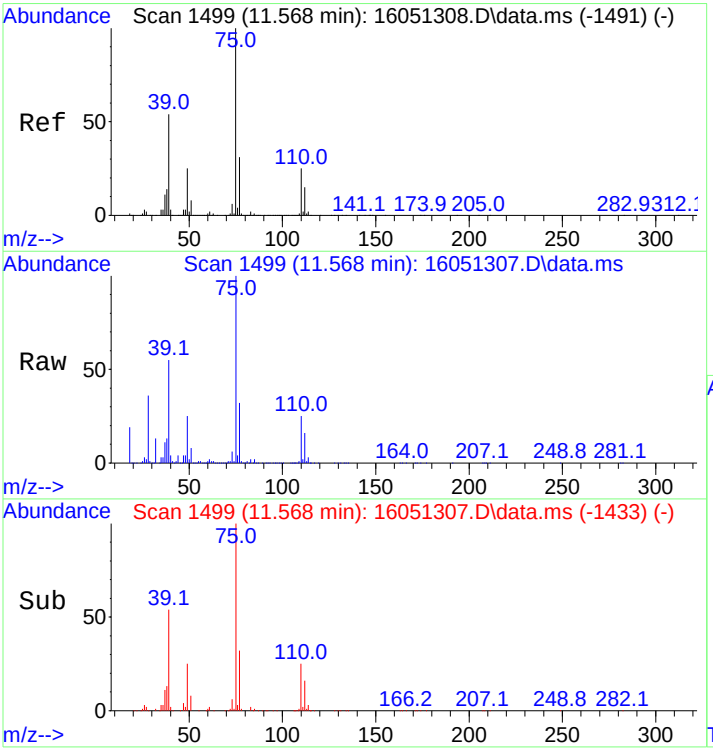


#29
cis,1,3-Dichloropropene
Concen: 139.48 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 132539

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4

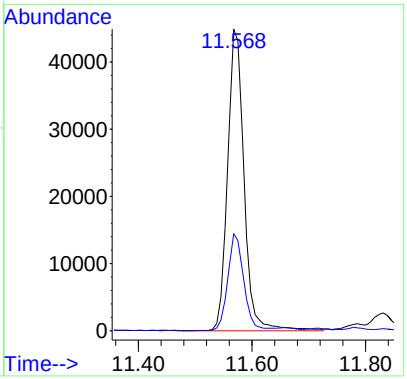


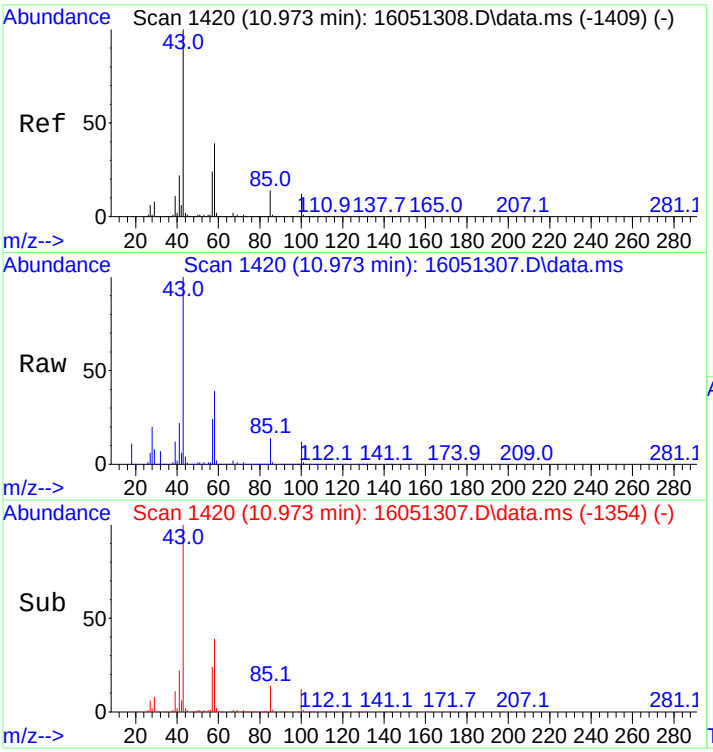


#30
trans,1,3-Dichloropropene
Concen: 140.59 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 90868

Ion	Ratio	Lower	Upper
75	100		
77	30.9	26.0	39.0

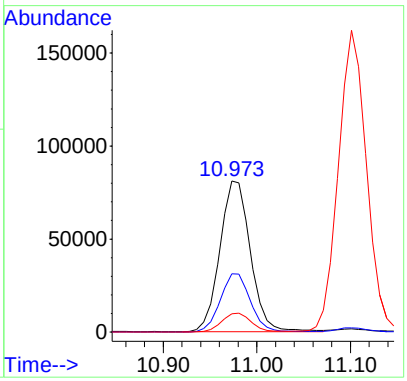


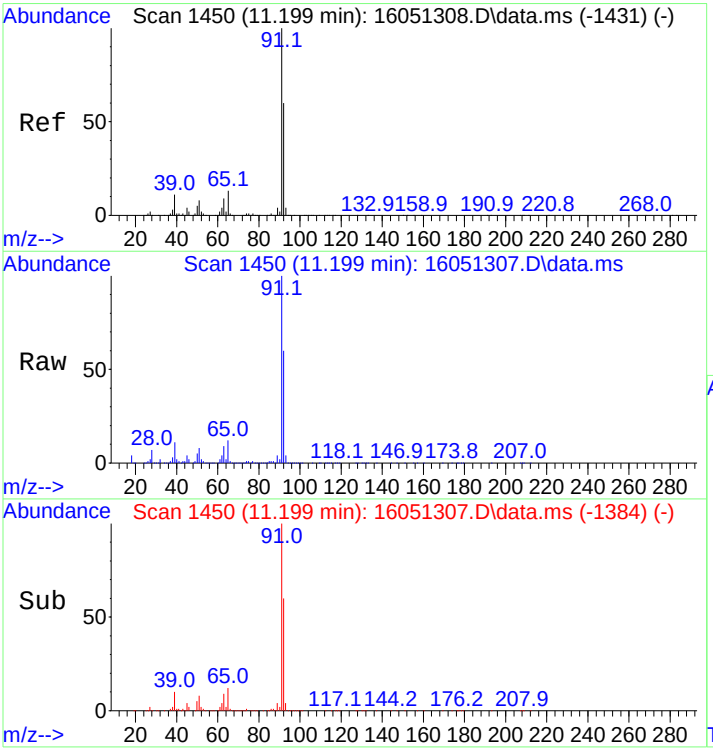


#31
4-Methyl-2-Pentanone
Concen: 146.68 ng
RT: 10.973 min Scan# 1420
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 184009

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.3	46.9
100	12.4	10.2	15.2

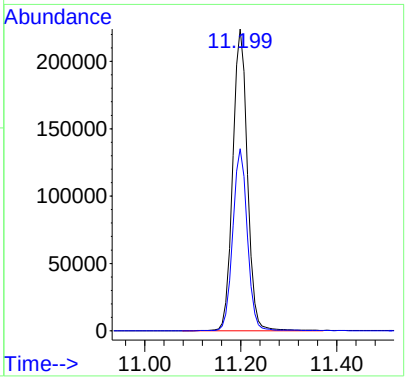


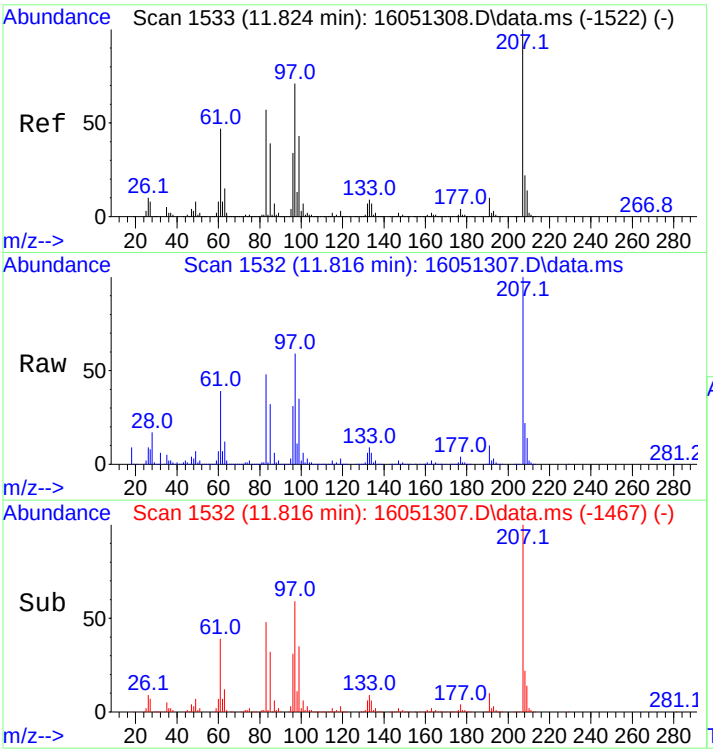


#33
Toluene
Concen: 147.38 ng
RT: 11.199 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 475435

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.6	73.0

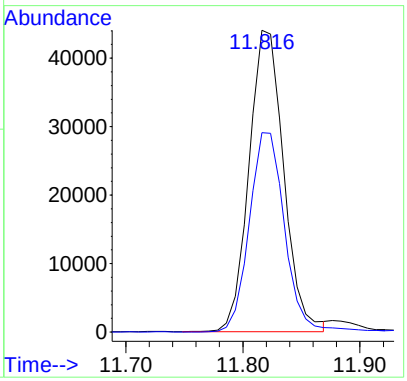


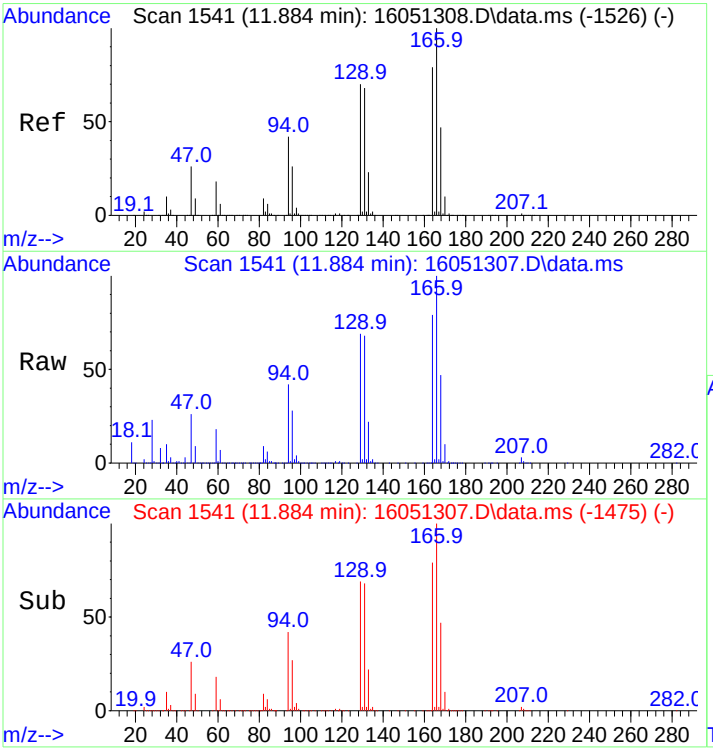


#34
1,1,2-Trichloroethane
Concen: 163.14 ng
RT: 11.816 min Scan# 1532
Delta R.T. -0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 90950

Ion	Ratio	Lower	Upper
83	100		
85	67.4	54.7	82.1

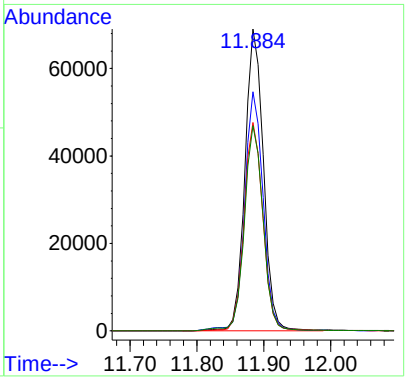


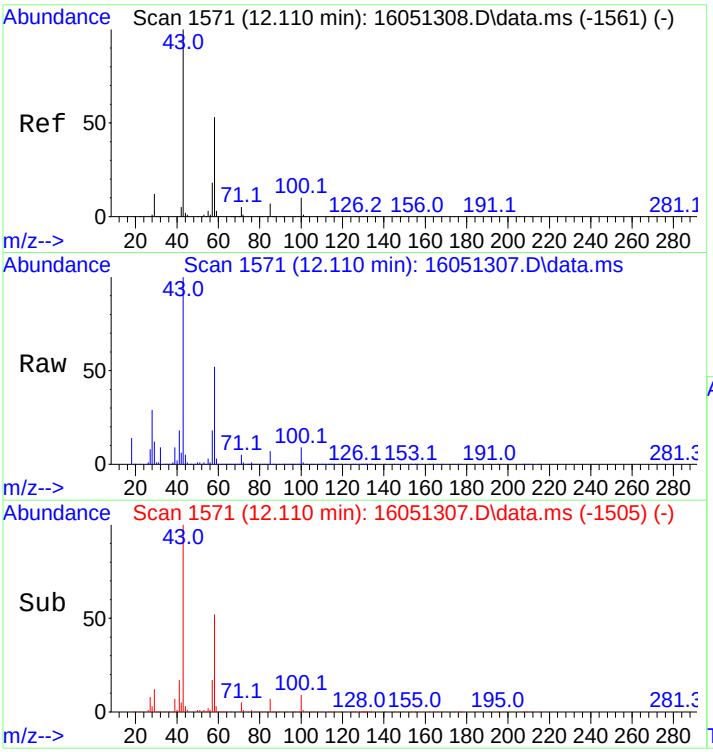


#35
Tetrachloroethene
Concen: 156.71 ng
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:166 Resp: 132395

Ion	Ratio	Lower	Upper
166	100		
164	79.5	63.2	94.8
129	70.1	55.5	83.3
131	69.4	55.2	82.8

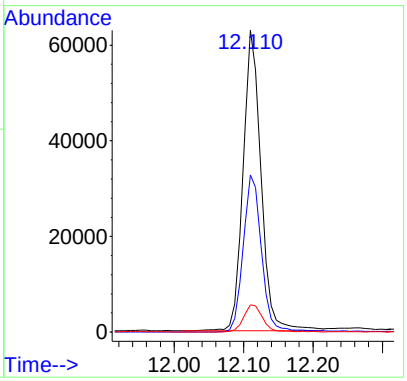


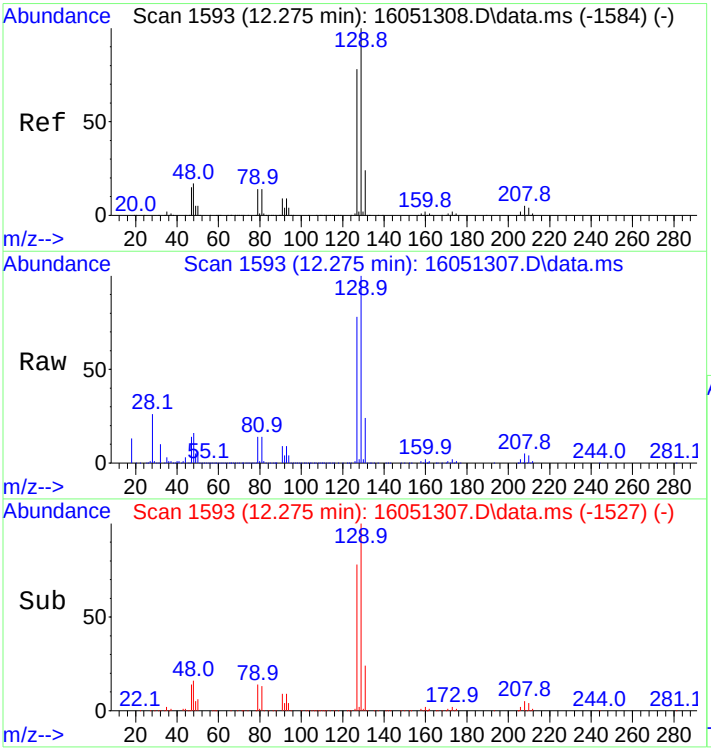


#36
2-Hexanone
Concen: 136.70 ng
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 113133

Ion	Ratio	Lower	Upper
43	100		
58	53.5	43.6	65.4
100	9.8	7.8	11.8

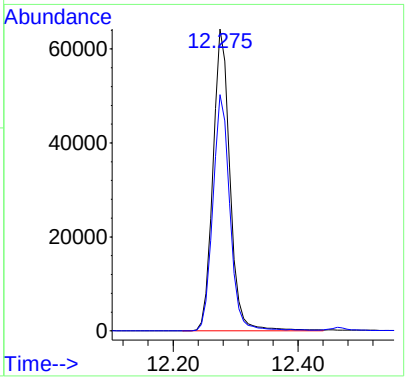


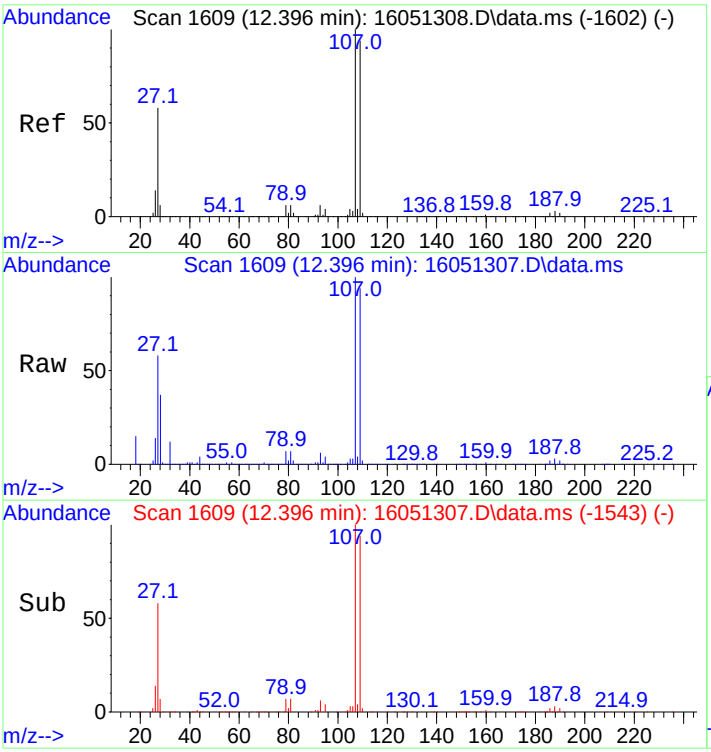


#37
Chlorodibromomethane
Concen: 161.09 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:129 Resp: 121809

Ion	Ratio	Lower	Upper
129	100		
127	78.5	62.3	93.5

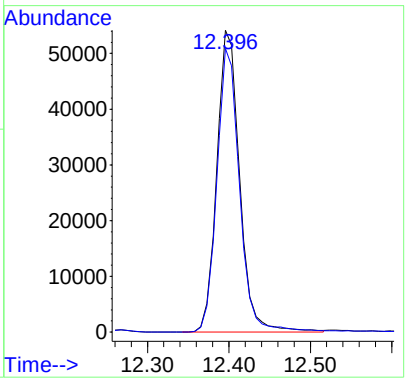


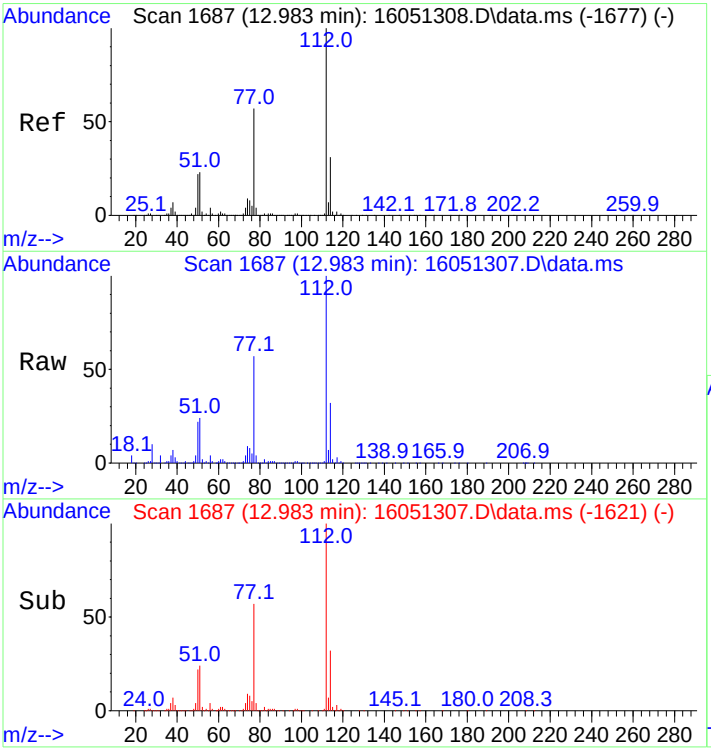


#38
Ethylene Dibromide
Concen: 153.25 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:107 Resp: 105782

Ion	Ratio	Lower	Upper
107	100		
109	94.6	74.3	111.5

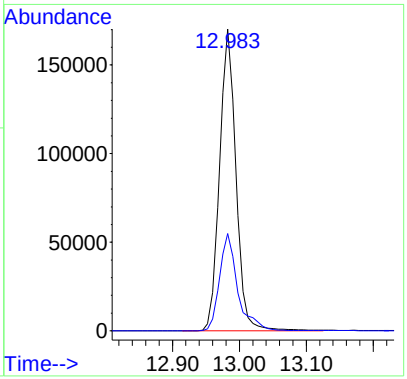


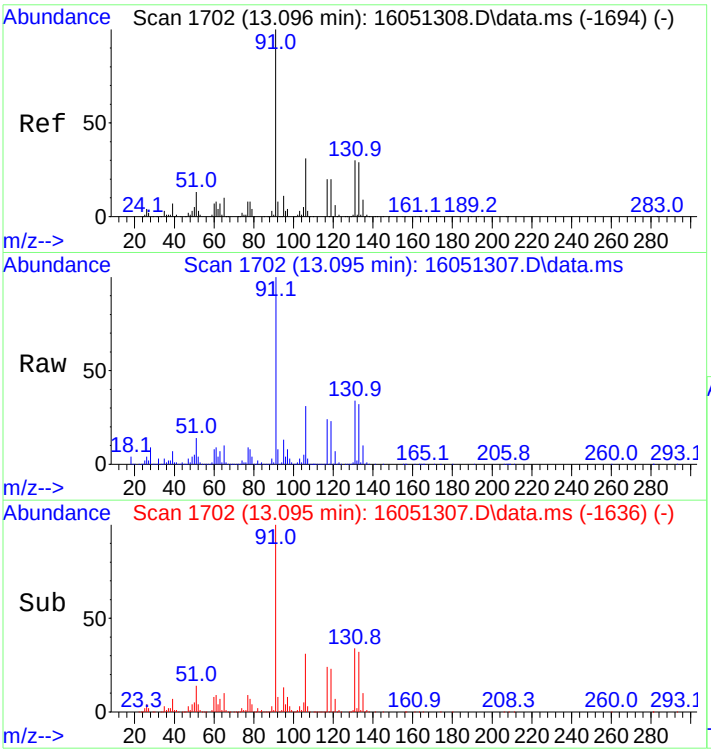


#39
Chlorobenzene
Concen: 146.66 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:112 Resp: 290708

Ion	Ratio	Lower	Upper
112	100		
114	35.7	27.5	41.3

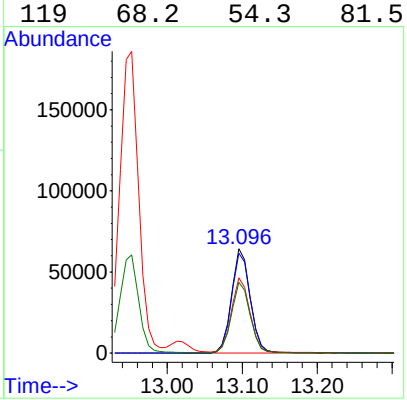


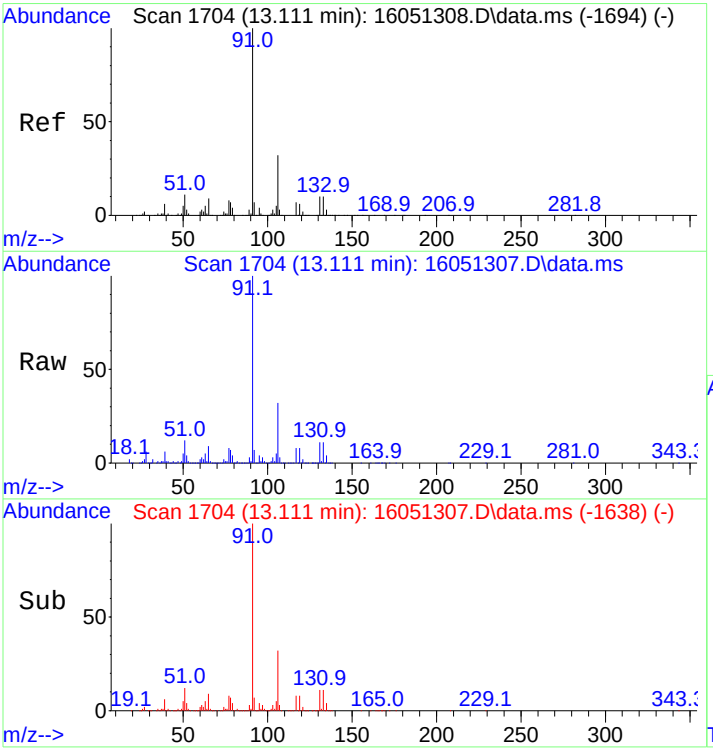


#40
1,1,1,2-Tetrachloroethane
Concen: 158.67 ng
RT: 13.095 min Scan# 1702
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:131 Resp: 111624

Ion	Ratio	Lower	Upper
131	100		
133	96.6	77.8	116.6
117	72.6	57.1	85.7
119	68.2	54.3	81.5

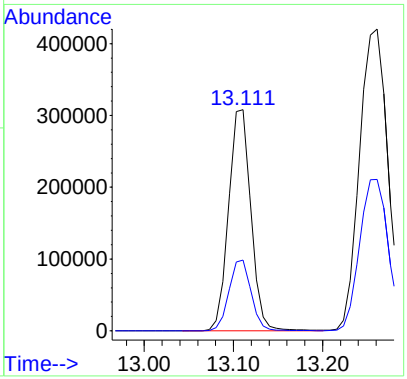


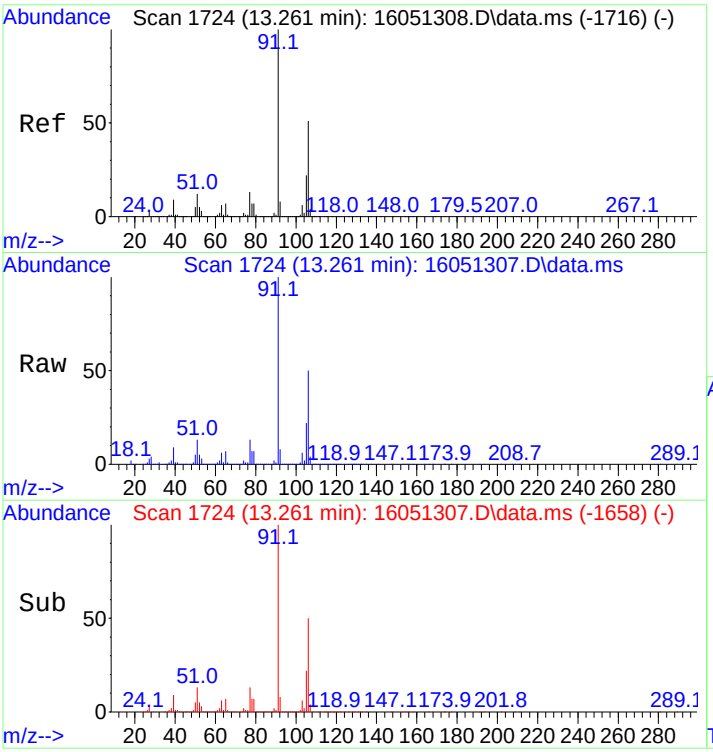


#41
Ethylbenzene
Concen: 146.47 ng
RT: 13.111 min Scan# 1704
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 536782

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.5	38.3

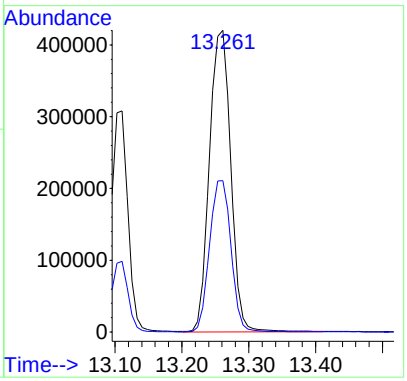


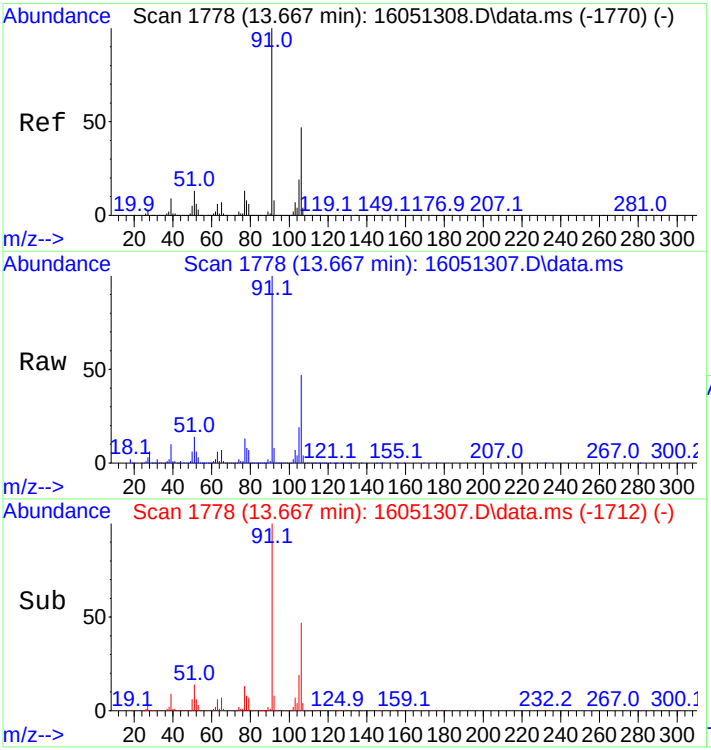


#42
M&P-Xylene
Concen: 299.00 ng
RT: 13.261 min Scan# 1724
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 931856

Ion	Ratio	Lower	Upper
91	100		
106	50.4	40.4	60.6

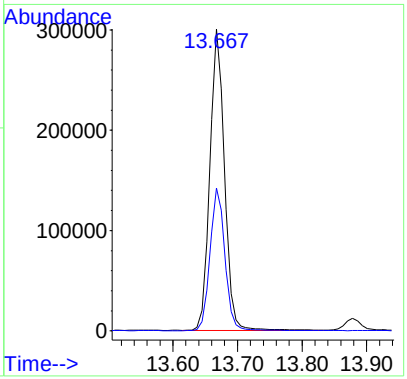


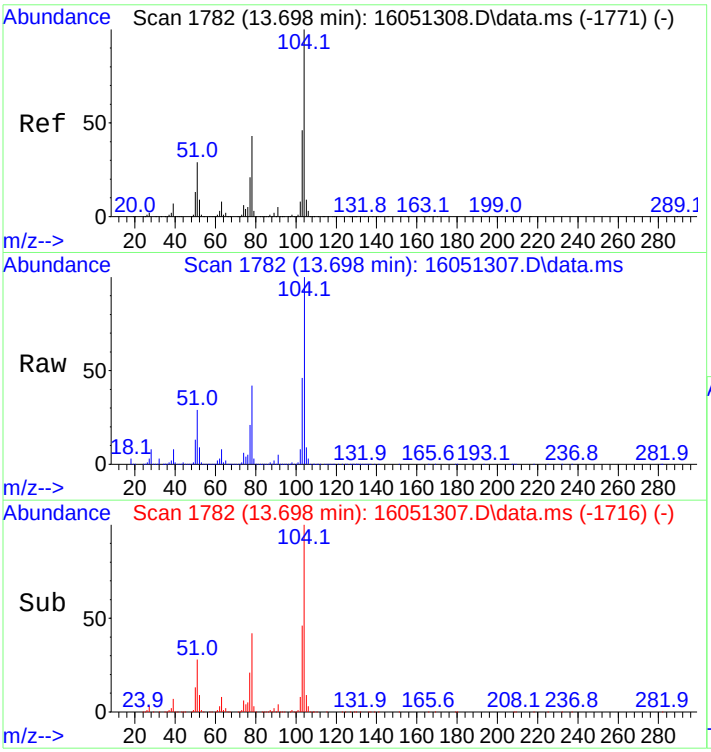


#43
O-Xylene
Concen: 146.90 ng
RT: 13.667 min Scan# 1778
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 474591

Ion	Ratio	Lower	Upper
91	100		
106	48.3	38.2	57.2

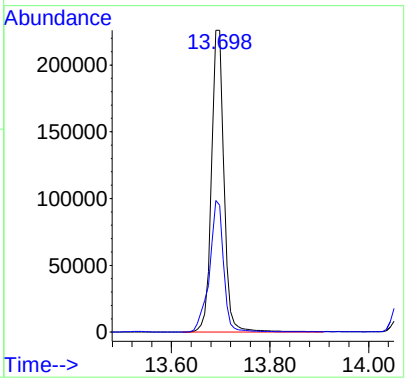


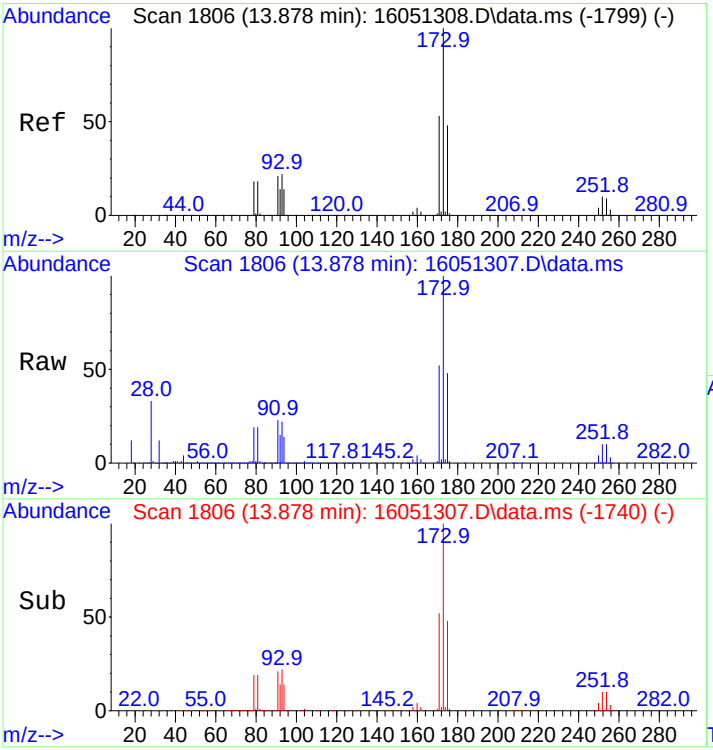


#44
Styrene
Concen: 144.94 ng
RT: 13.698 min Scan# 1782
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:104 Resp: 399706

Ion	Ratio	Lower	Upper
104	100		
78	48.9	39.8	59.6

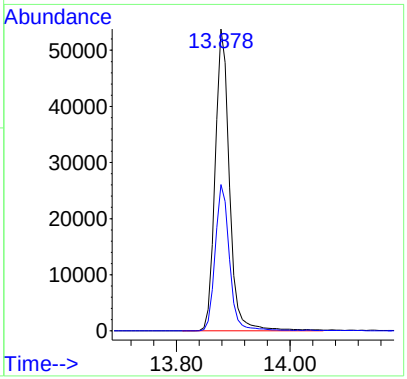


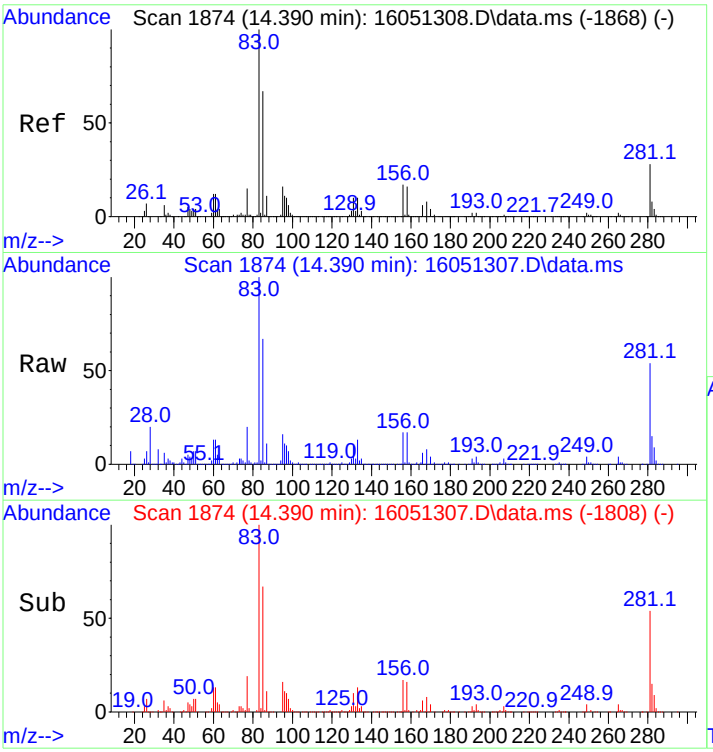


#45
Bromoform
Concen: 158.55 ng
RT: 13.878 min Scan# 1806
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:173 Resp: 94490

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.5	57.7

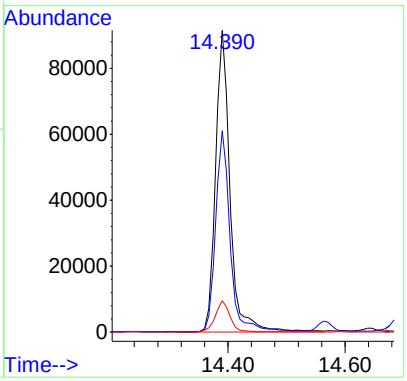


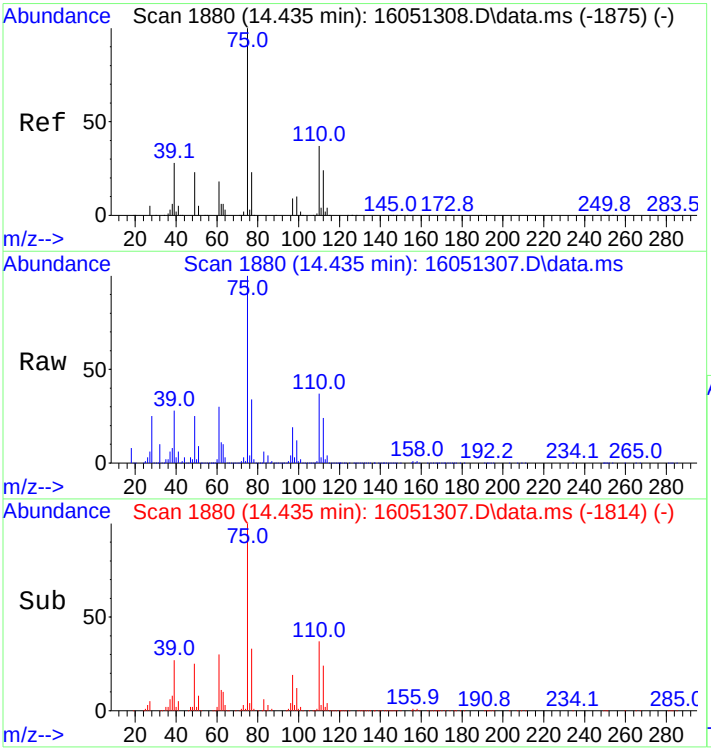


#46
1,1,2,2-Tetrachloroethane
Concen: 167.35 ng
RT: 14.390 min Scan# 1874
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 157612

Ion	Ratio	Lower	Upper
83	100		
85	66.7	53.1	79.7
131	10.6	8.9	13.3

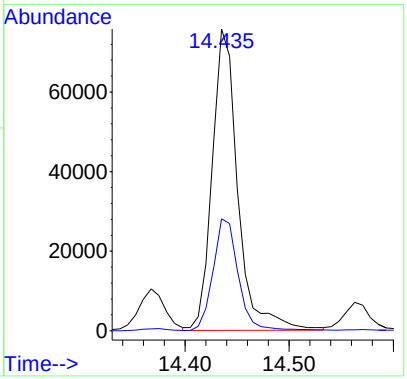


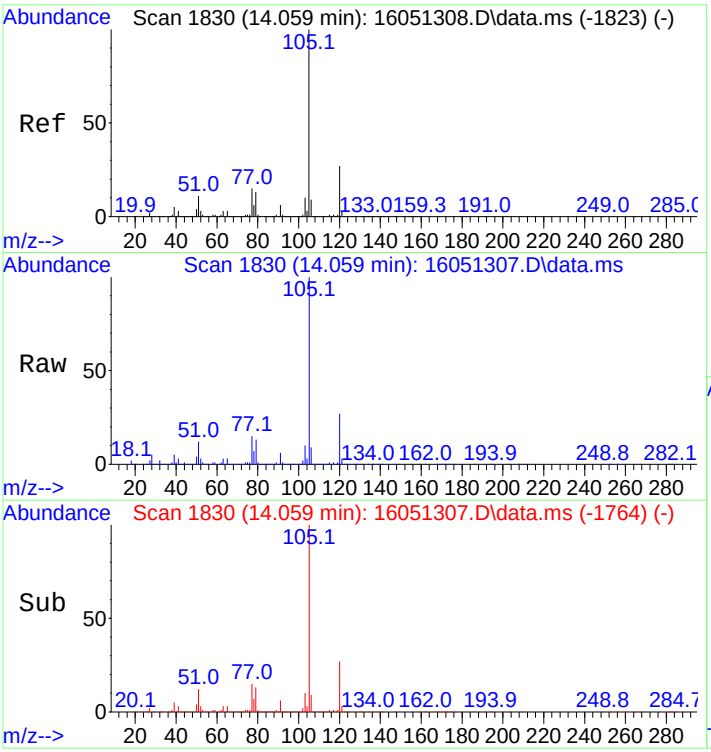


#47
1,2,3-Trichloropropane
Concen: 166.80 ng
RT: 14.435 min Scan# 1880
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 129774

Ion	Ratio	Lower	Upper
75	100		
110	36.7	30.5	45.7

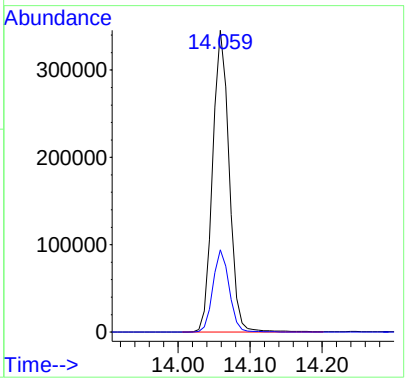


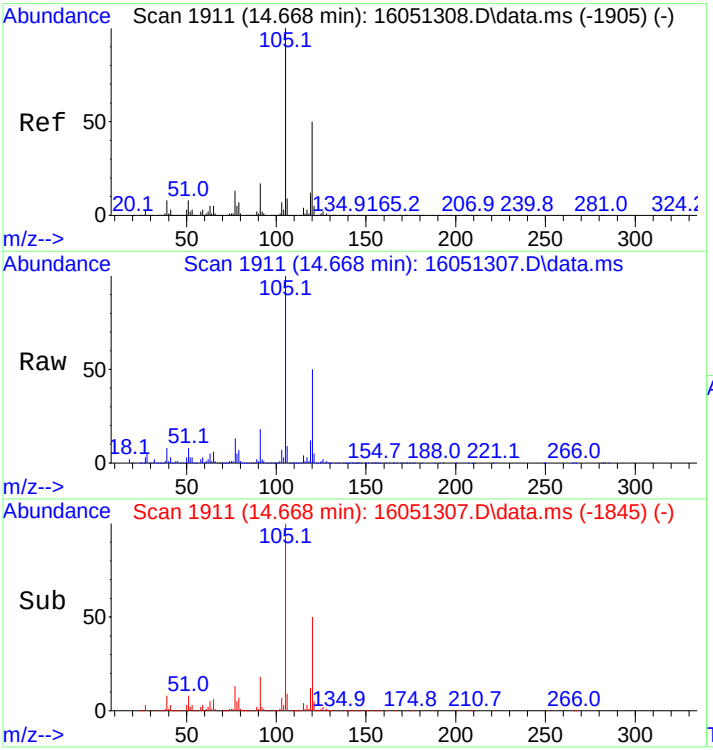


#51
Isopropylbenzene
Concen: 146.55 ng
RT: 14.059 min Scan# 1830
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 550224

Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.4	32.2

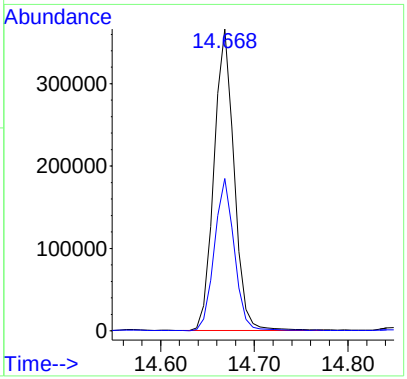


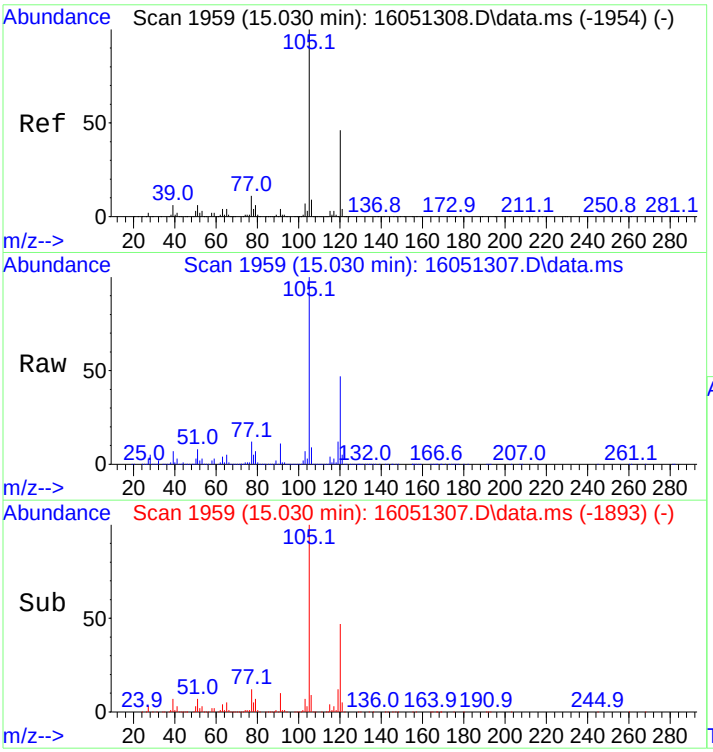


#52
1,3,5-Trimethylbenzene
Concen: 149.36 ng
RT: 14.668 min Scan# 1911
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 546538

Ion	Ratio	Lower	Upper
105	100		
120	50.1	39.9	59.9

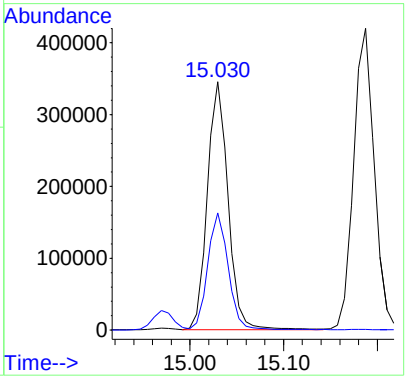


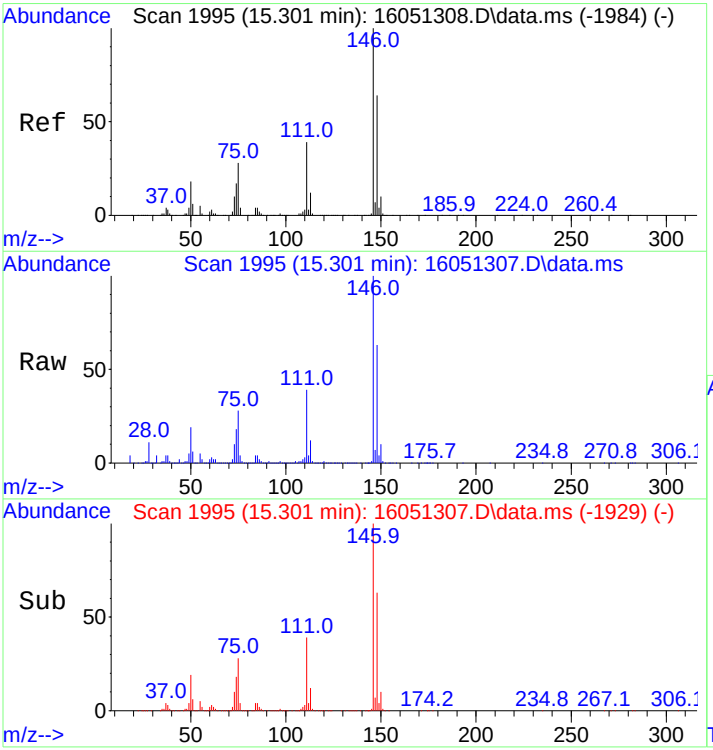


#53
1,2,4-Trimethylbenzene
Concen: 146.75 ng
RT: 15.030 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 530206

Ion	Ratio	Lower	Upper
105	100		
120	47.1	37.5	56.3

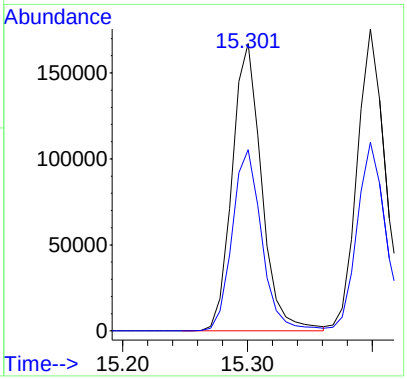


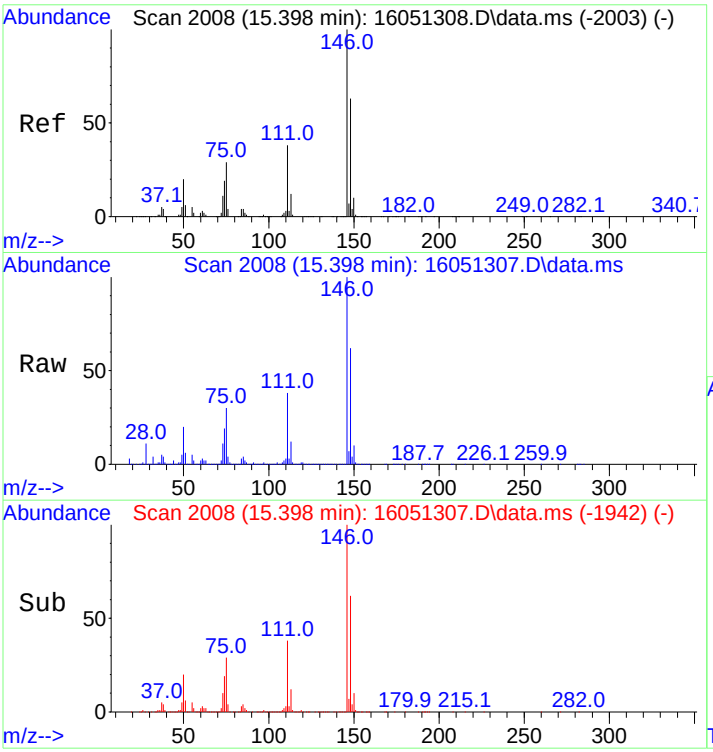


#54
1,3-Dichlorobenzene
Concen: 145.82 ng
RT: 15.301 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:146 Resp: 274957

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.6	76.0

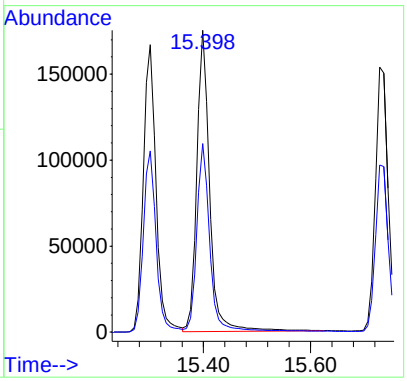


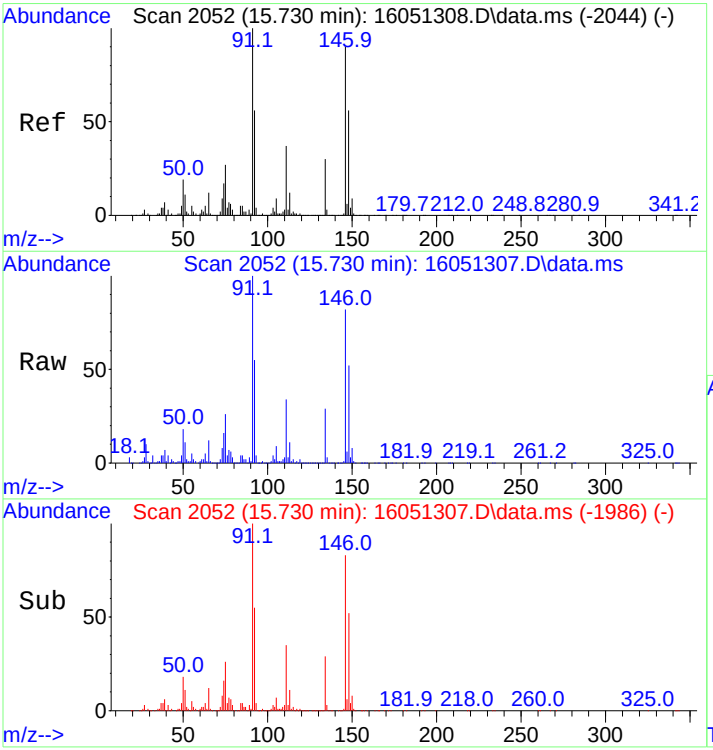


#55
1,4-Dichlorobenzene
Concen: 146.84 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:146 Resp: 292670

Ion	Ratio	Lower	Upper
146	100		
148	63.2	49.9	74.9

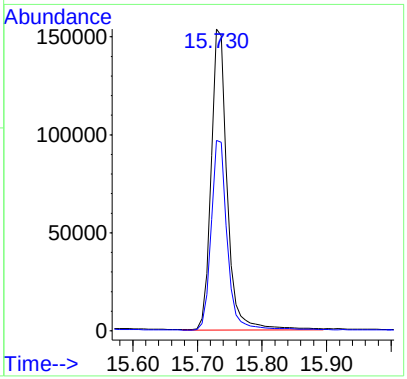


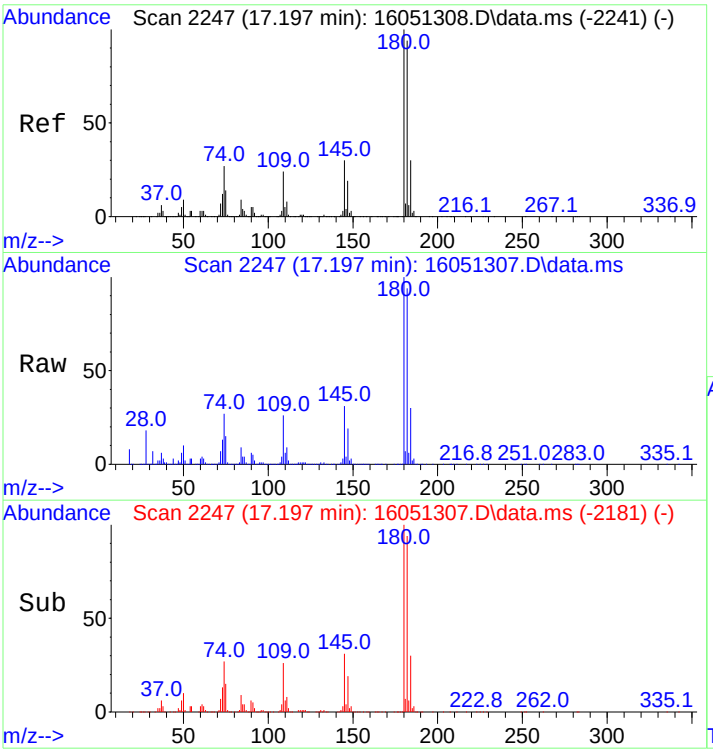


#56
1,2-Dichlorobenzene
Concen: 150.72 ng
RT: 15.730 min Scan# 2052
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:146 Resp: 268805

Ion	Ratio	Lower	Upper
146	100		
148	63.2	49.9	74.9

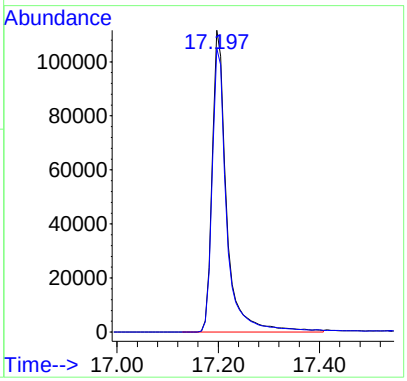


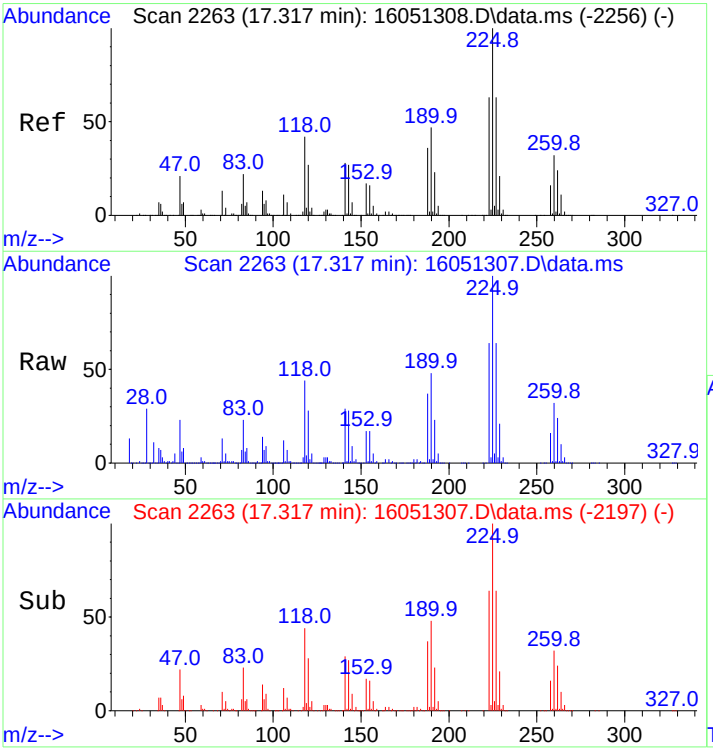


#57
1,2,4-Trichlorobenzene
Concen: 146.40 ng
RT: 17.197 min Scan# 2247
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:180 Resp: 221446

Ion	Ratio	Lower	Upper
180	100		
182	95.9	75.0	112.4

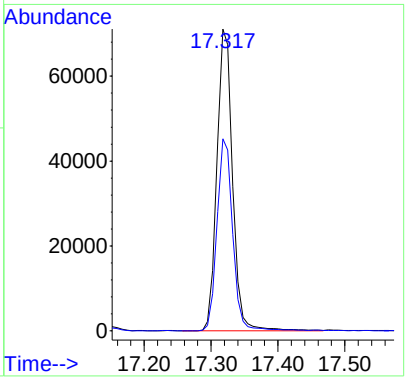


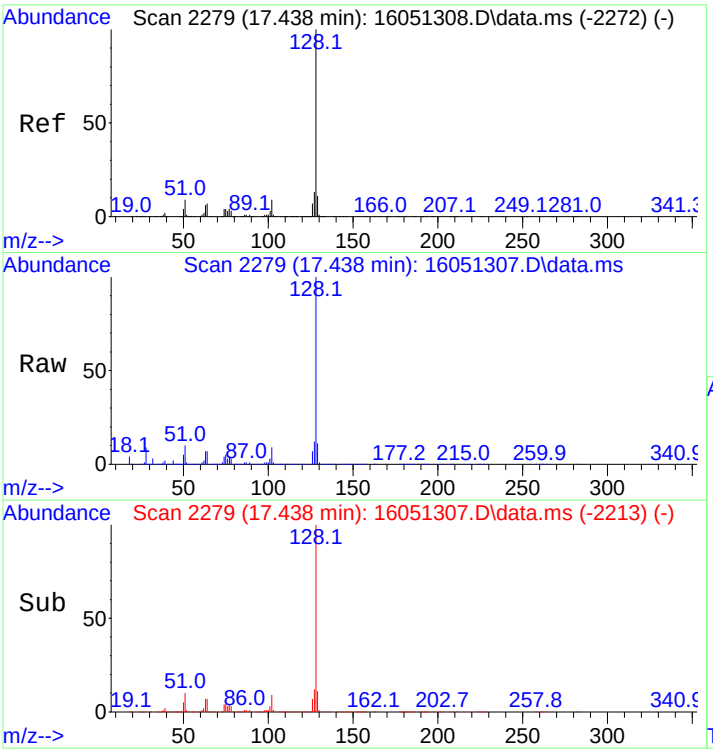


#58
Hexachlorobutadiene
Concen: 145.67 ng
RT: 17.317 min Scan# 2263
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:225 Resp: 115820

Ion	Ratio	Lower	Upper
225	100		
227	63.8	51.1	76.7

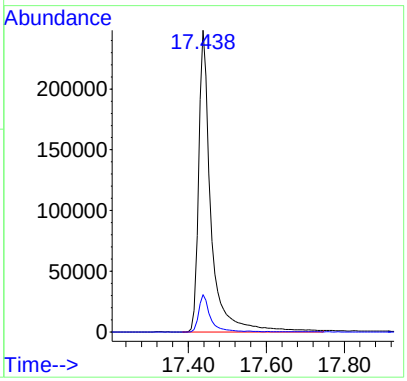


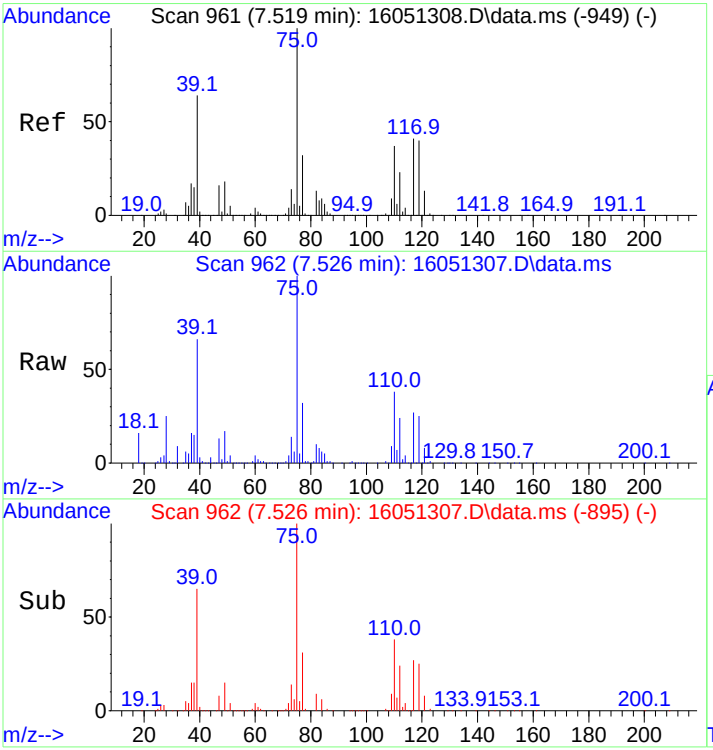


#59
Naphthalene
Concen: 148.11 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:128 Resp: 549907

Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.8

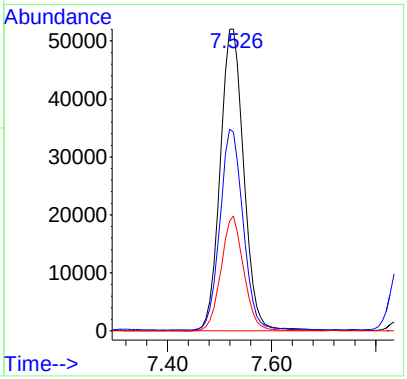


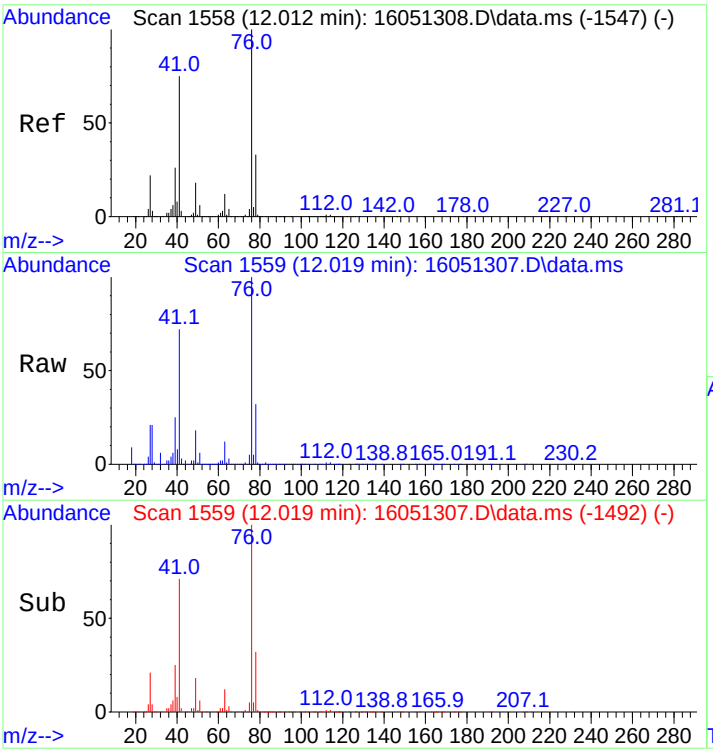


#60
1,1-Dichloropropene
Concen: 158.67 ng
RT: 7.526 min Scan# 962
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 164016

Ion	Ratio	Lower	Upper
75	100		
39	65.6	51.8	77.6
110	36.4	29.3	43.9

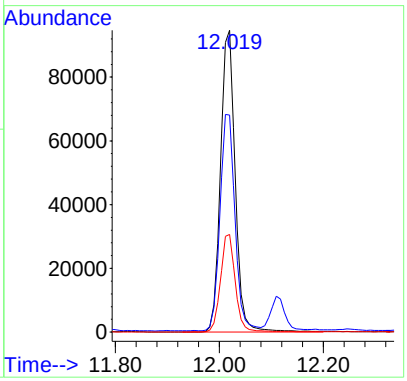


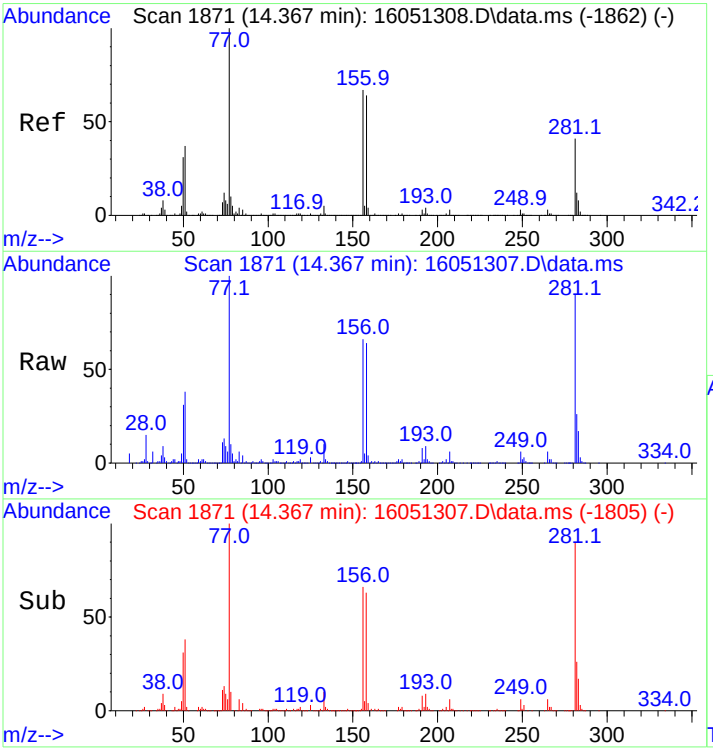


#61
1,3-Dichloropropane
Concen: 161.15 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 76 Resp: 185790

Ion	Ratio	Lower	Upper
76	100		
41	73.1	58.2	87.4
78	32.3	26.1	39.1

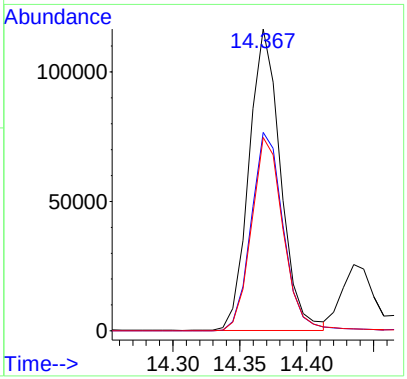


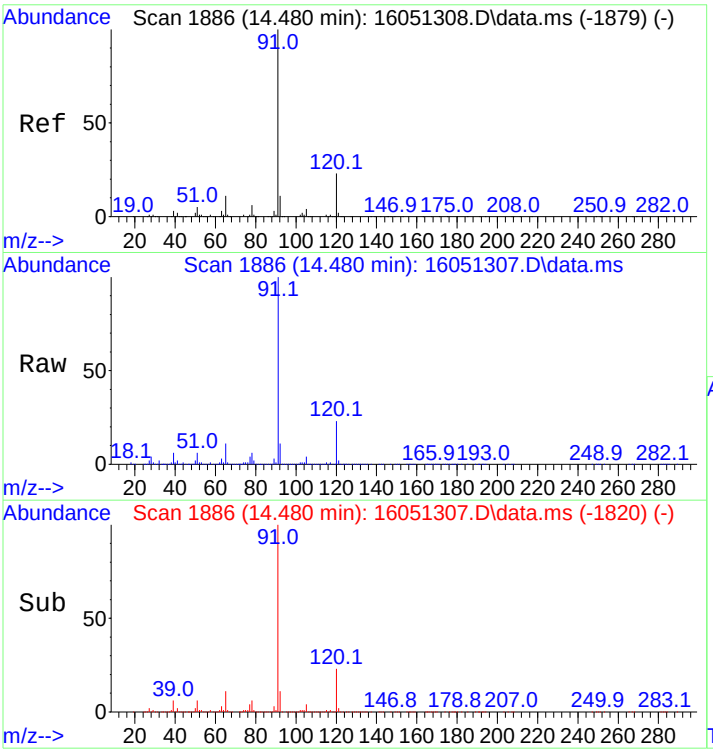


#62
Bromobenzene
Concen: 143.20 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 77 Resp: 191344

Ion	Ratio	Lower	Upper
77	100		
156	67.9	55.0	82.4
158	65.5	53.3	79.9

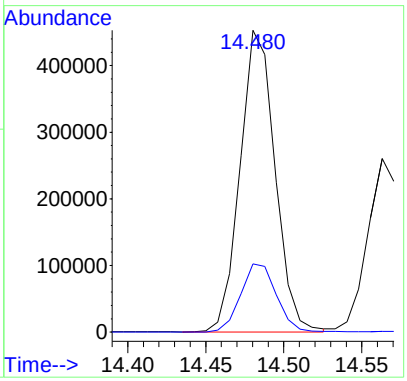


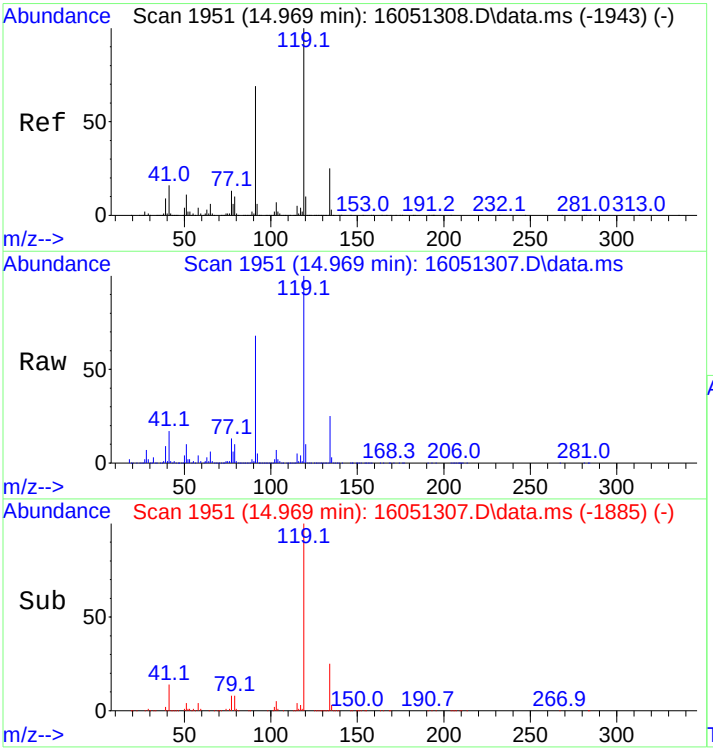


#63
n-Propylbenzene
Concen: 148.37 ng
RT: 14.480 min Scan# 1886
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 704980

Ion	Ratio	Lower	Upper
91	100		
120	23.2	18.6	28.0

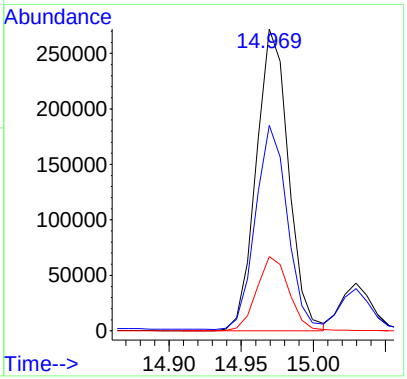


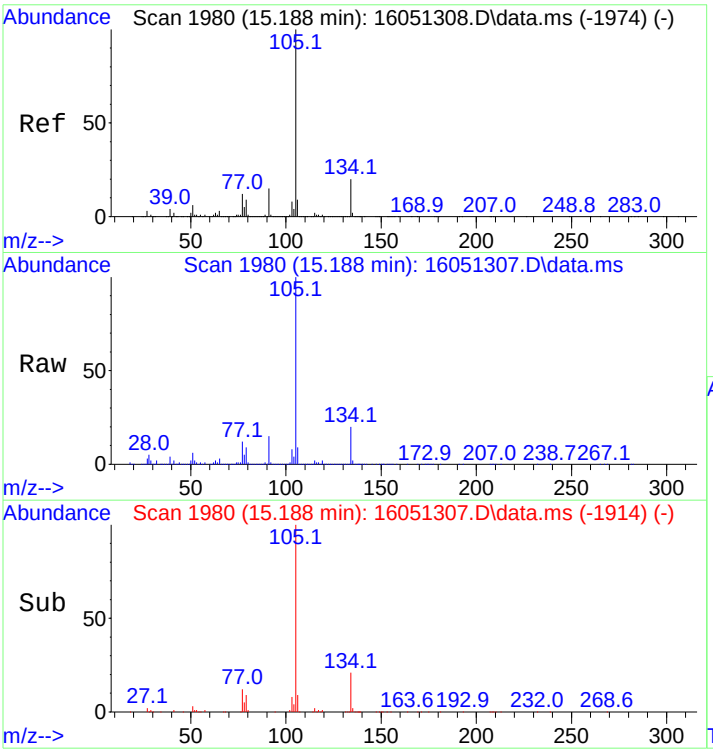


#64
tert-Butylbenzene
Concen: 148.58 ng
RT: 14.969 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:119 Resp: 422625

Ion	Ratio	Lower	Upper
119	100		
91	66.8	54.0	81.0
134	24.7	19.9	29.9

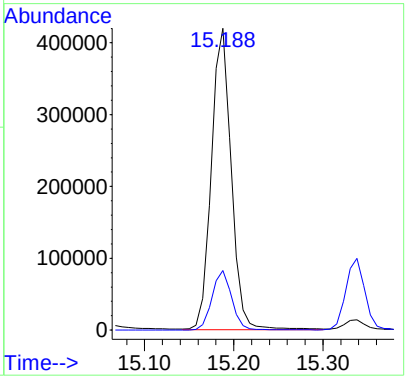


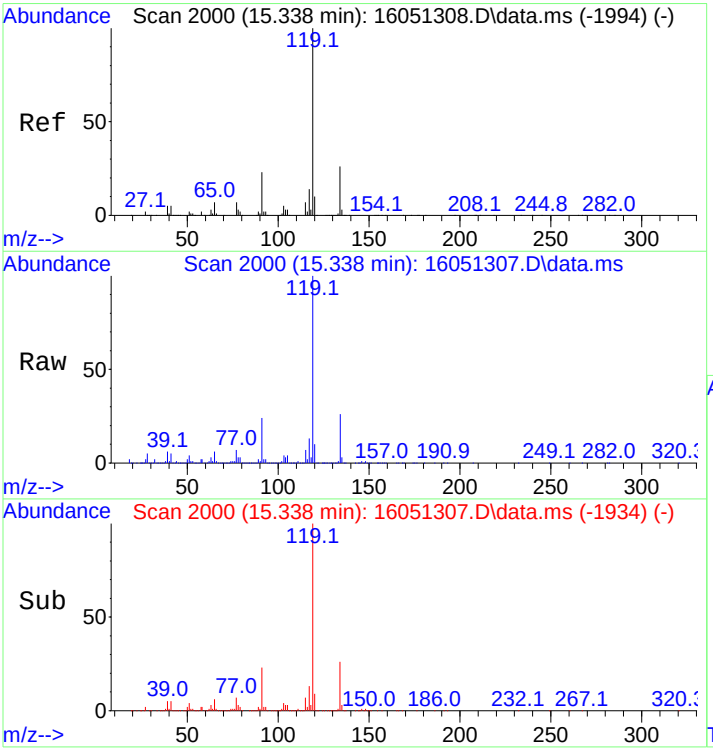


#65
sec-Butylbenzene
Concen: 147.99 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 648681

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5

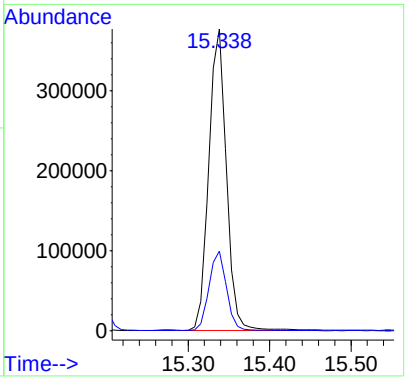


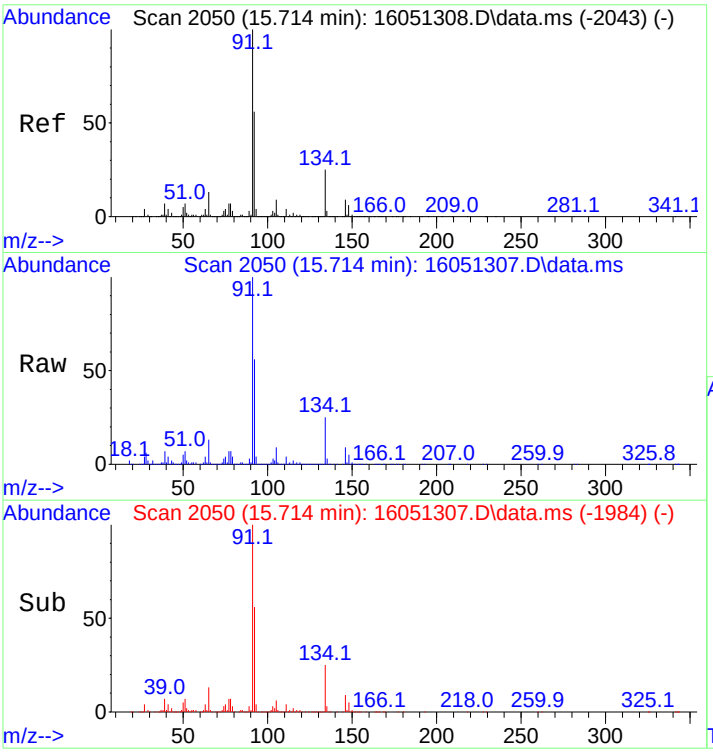


#66
p-Isopropyltoluene
Concen: 146.44 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:119 Resp: 565884

Ion	Ratio	Lower	Upper
119	100		
134	26.4	20.6	31.0

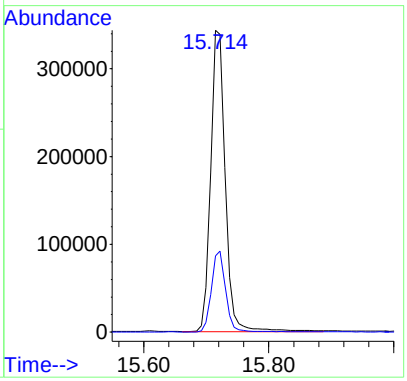


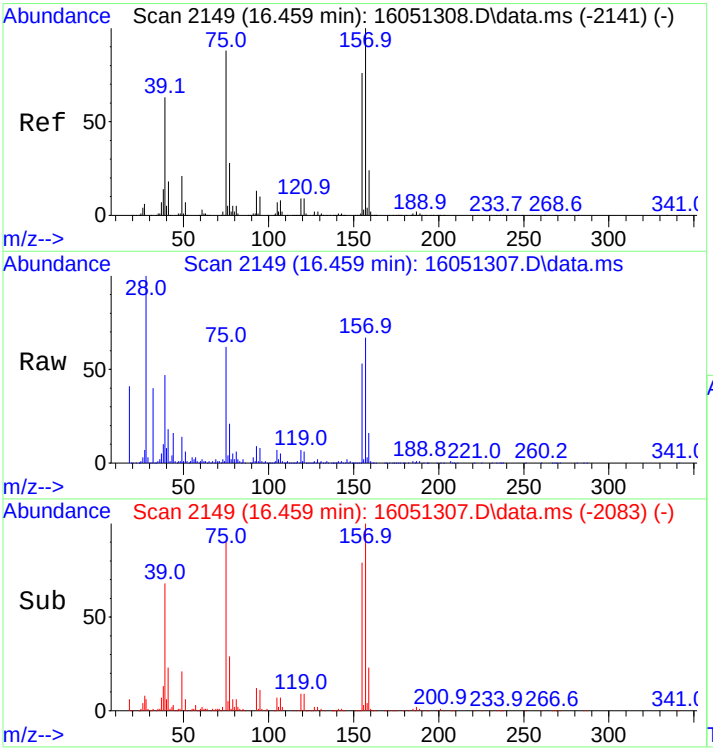


#67
n-Butylbenzene
Concen: 149.56 ng
RT: 15.714 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 558724

Ion	Ratio	Lower	Upper
91	100		
134	26.1	21.0	31.6

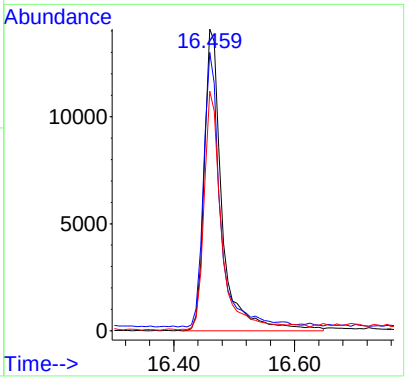




#68
1,2-Dibromo-3-chloropropane
Concen: 124.57 ng
RT: 16.459 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:157 Resp: 29222

Ion	Ratio	Lower	Upper
157	100		
75	86.1	68.6	103.0
155	77.0	62.2	93.2



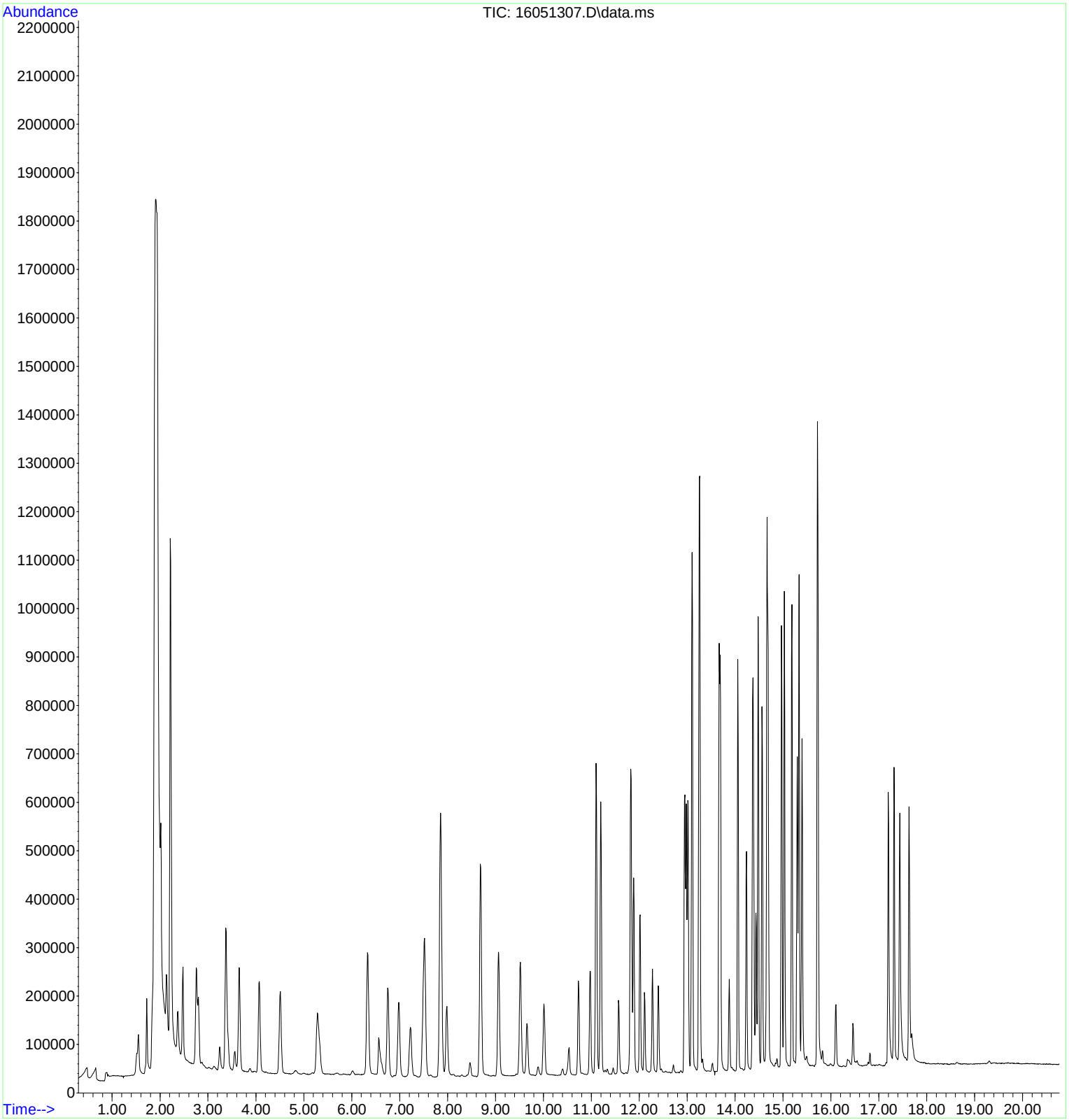
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

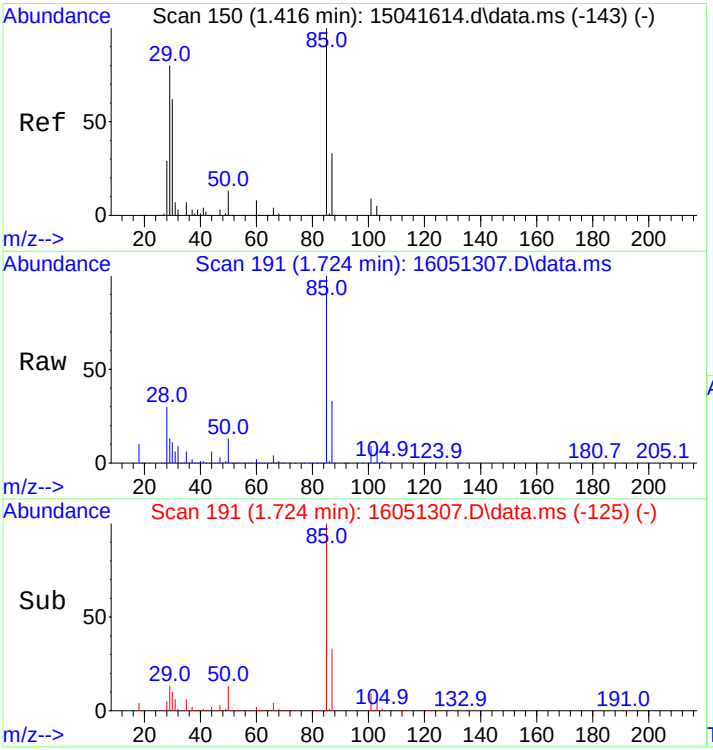
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051307.D
Acq On : 13 May 2016 2:29 pm
Operator : SG Instrument MSD-3
Sample : 150NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:42:36 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:40:42 2016
Response via : Initial Calibration

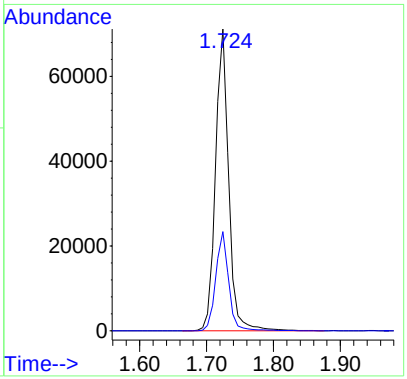


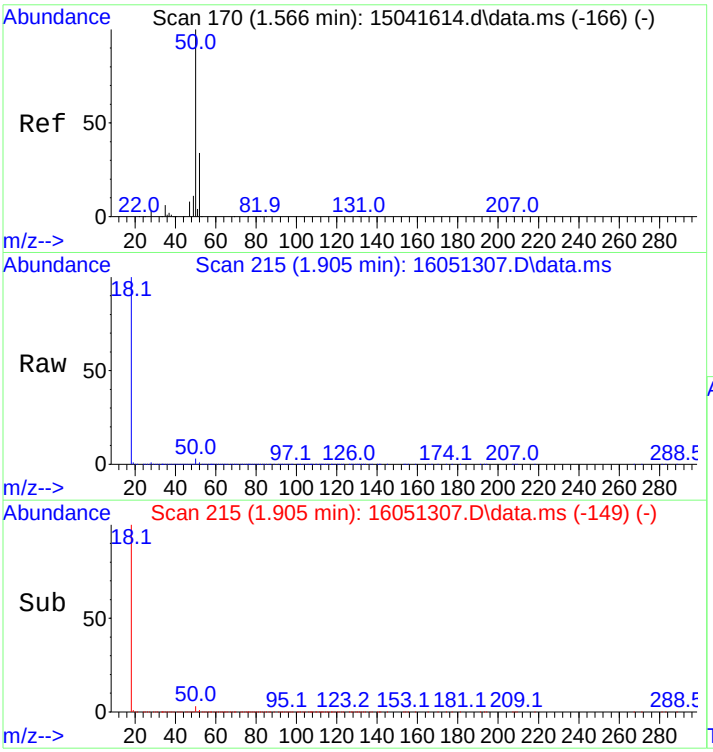


#2
Dichlorodifluoromethane
Concen: 154.31 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 85 Resp: 97272

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.0	39.0

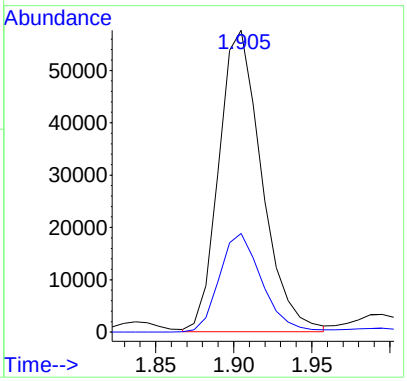


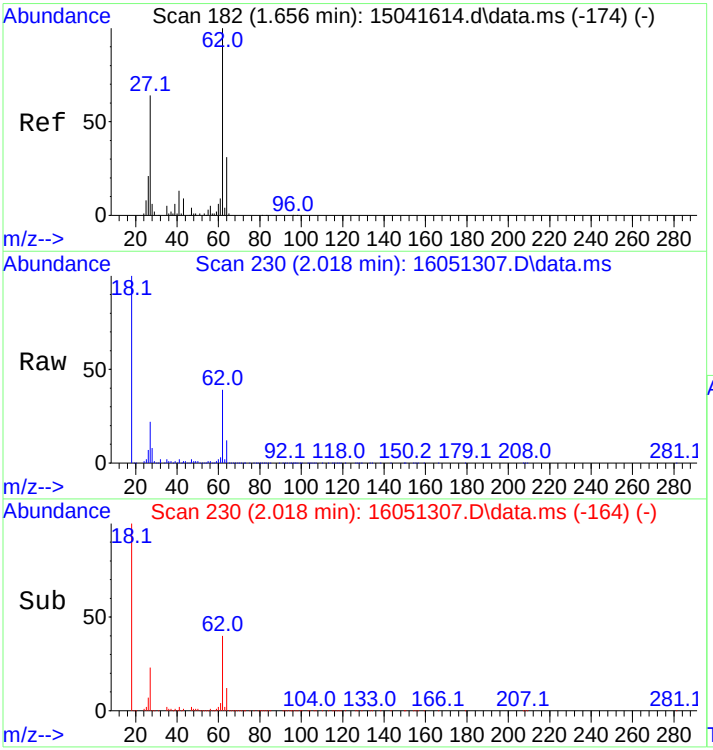


#3
Chloromethane
Concen: 147.42 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 50 Resp: 110209

Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.0	39.0

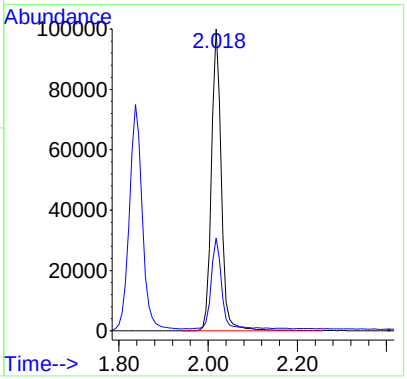


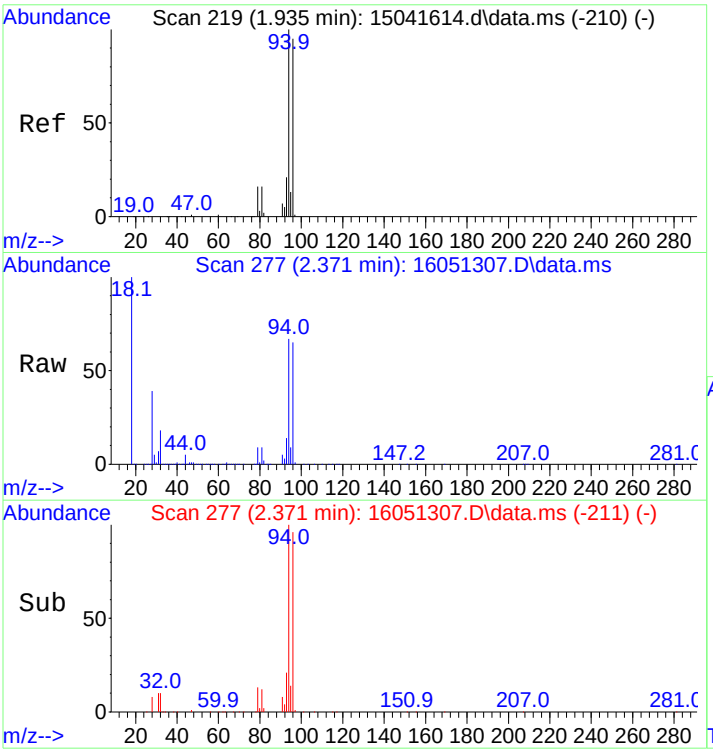


#4
Vinyl Chloride
Concen: 171.57 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 62 Resp: 154156

Ion	Ratio	Lower	Upper
62	100		
64	33.3	25.7	38.5

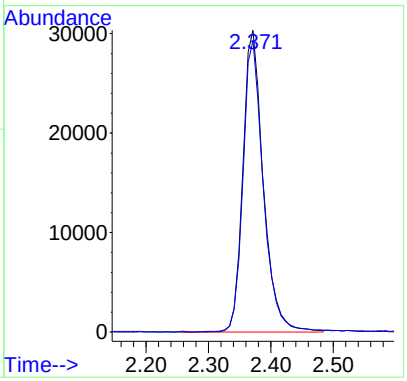


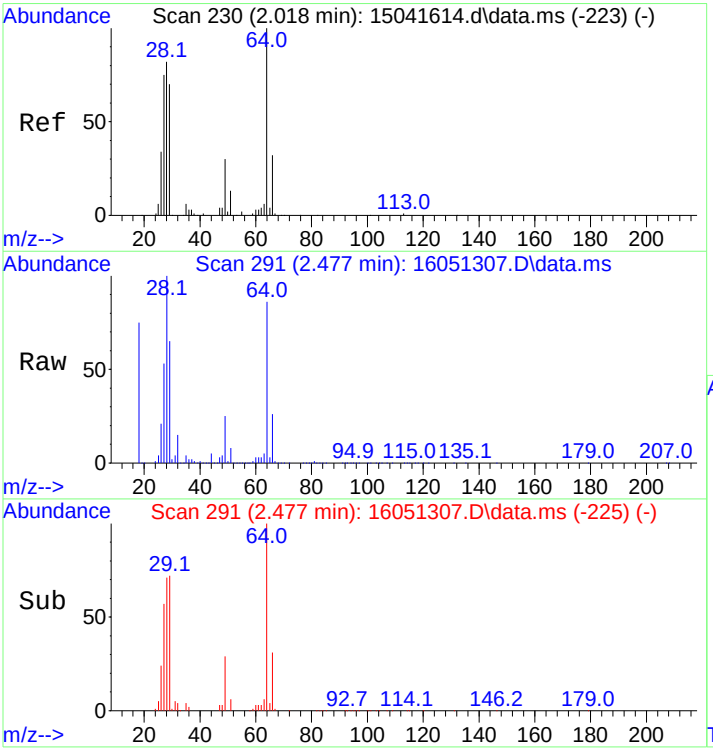


#5
Bromomethane
Concen: 172.88 ng
RT: 2.371 min Scan# 277
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 94 Resp: 69034

Ion	Ratio	Lower	Upper
94	100		
96	96.1	74.5	111.7

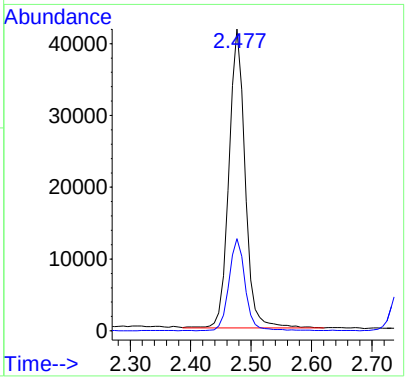


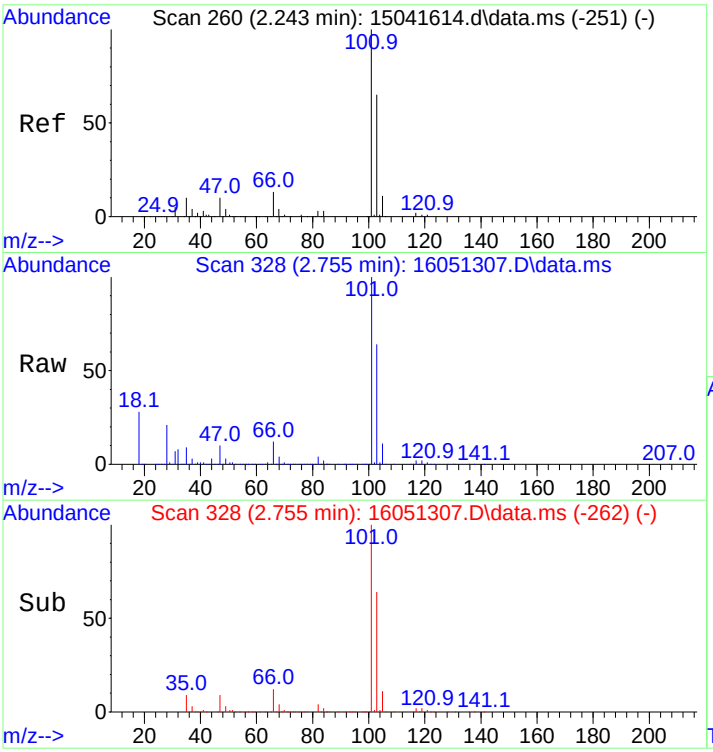


#6
Chloroethane
Concen: 165.00 ng
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 64 Resp: 77191

Ion	Ratio	Lower	Upper
64	100		
66	31.1	25.0	37.4

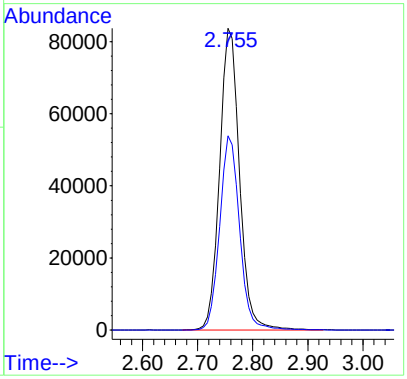


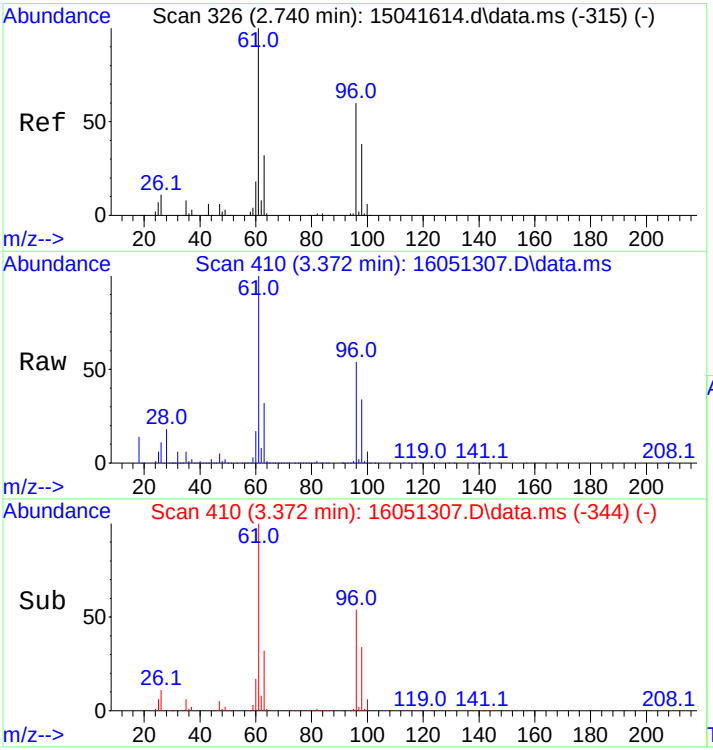


#7
Trichlorofluoromethane
Concen: 156.47 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:101 Resp: 209702

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.8	77.6

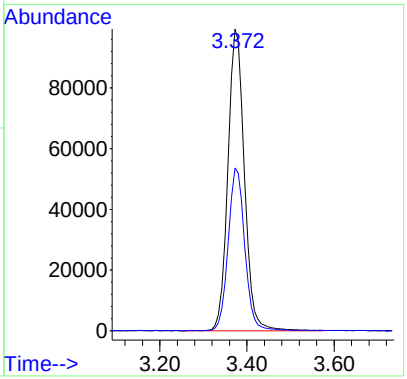


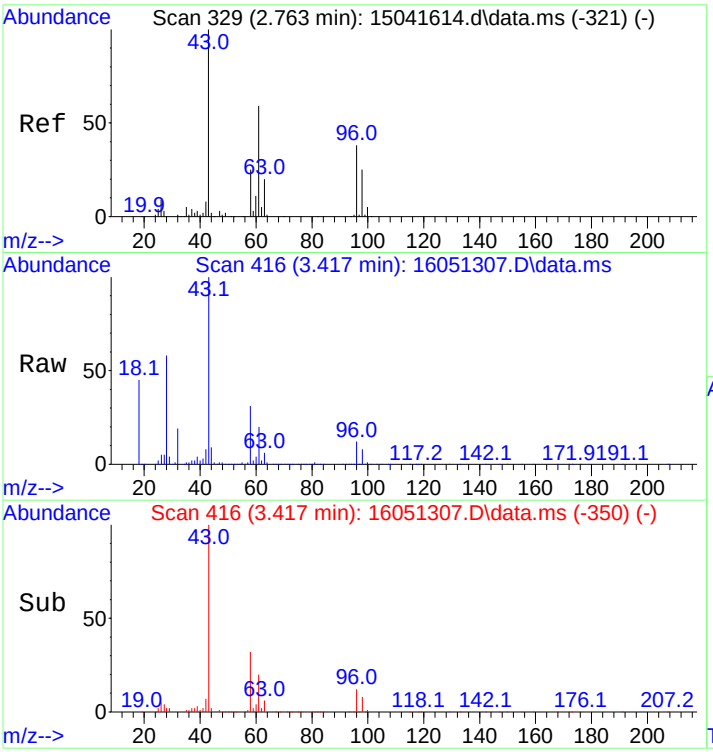


#8
1,1-Dichloroethene
Concen: 161.50 ng
RT: 3.372 min Scan# 410
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 61 Resp: 260869

Ion	Ratio	Lower	Upper
61	100		
96	54.2	44.1	66.1

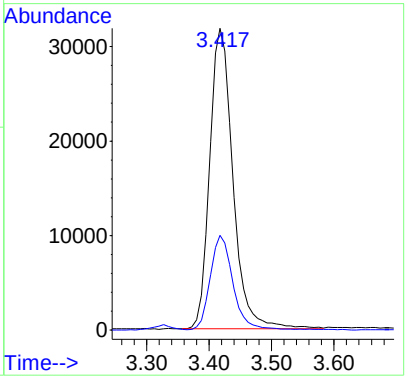


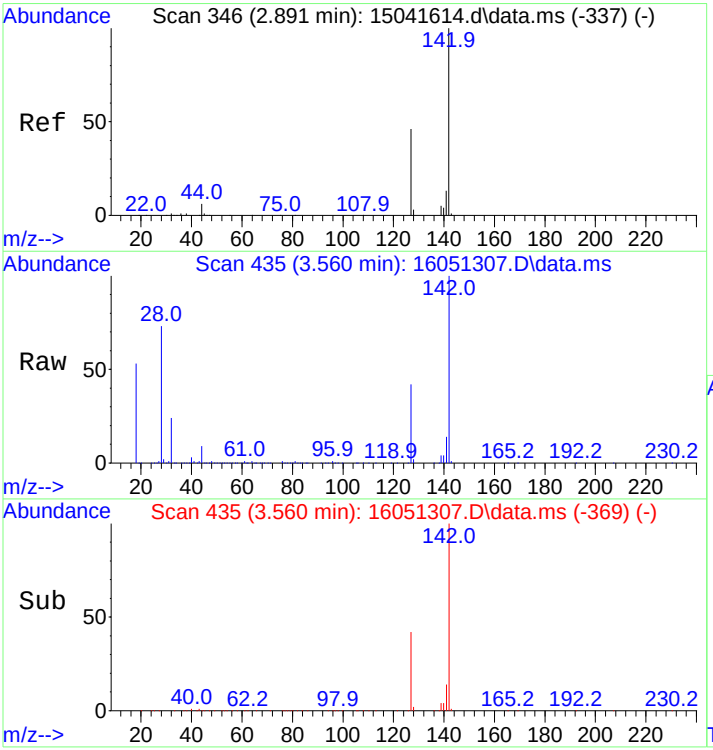


#9
Acetone
Concen: 136.98 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 82347

Ion	Ratio	Lower	Upper
43	100		
58	31.0	24.7	37.1

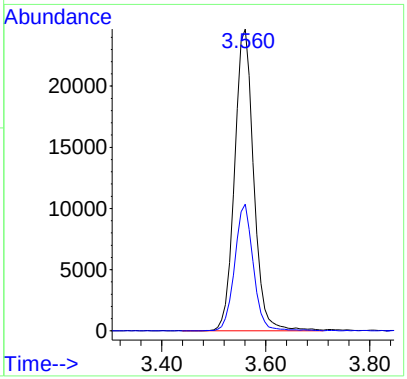


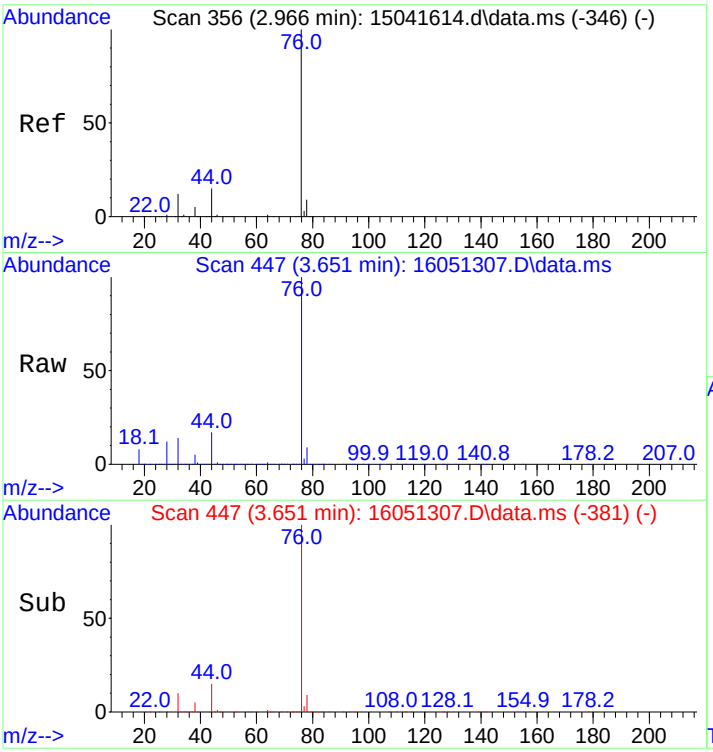


#10
Iodomethane
Concen: 98.08 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:142 Resp: 62839

Ion	Ratio	Lower	Upper
142	100		
127	41.0	32.8	49.2

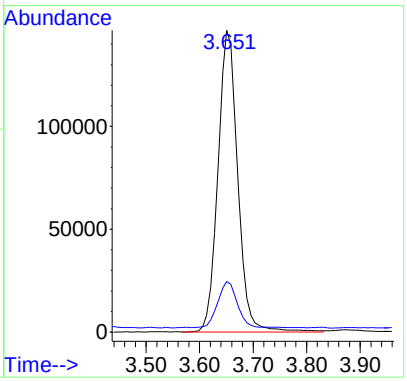


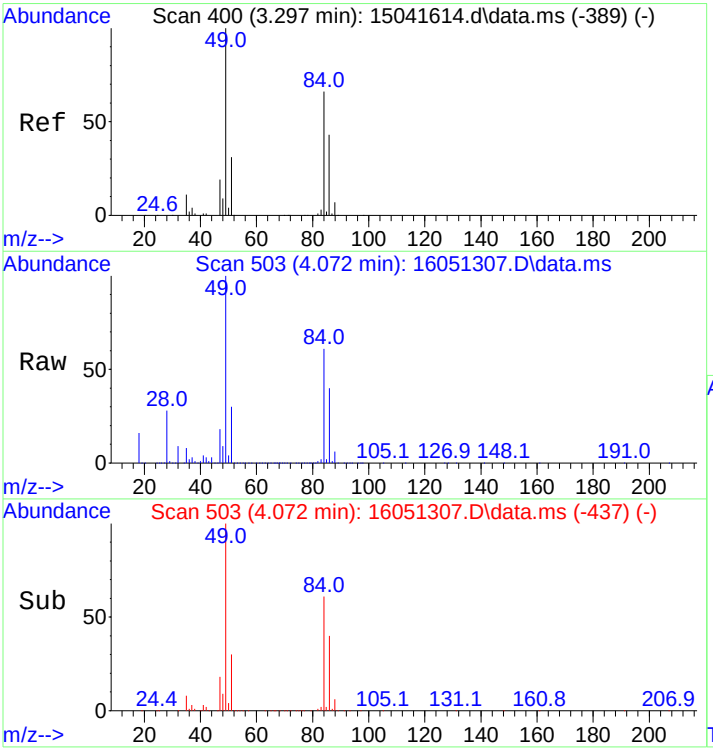


#11
Carbon disulfide
Concen: 148.75 ng
RT: 3.651 min Scan# 447
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 76 Resp: 376128

Ion	Ratio	Lower	Upper
76	100		
44	15.4	12.2	18.4

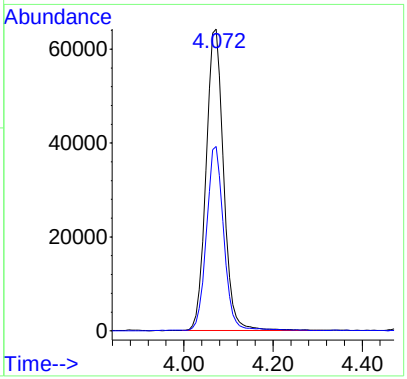


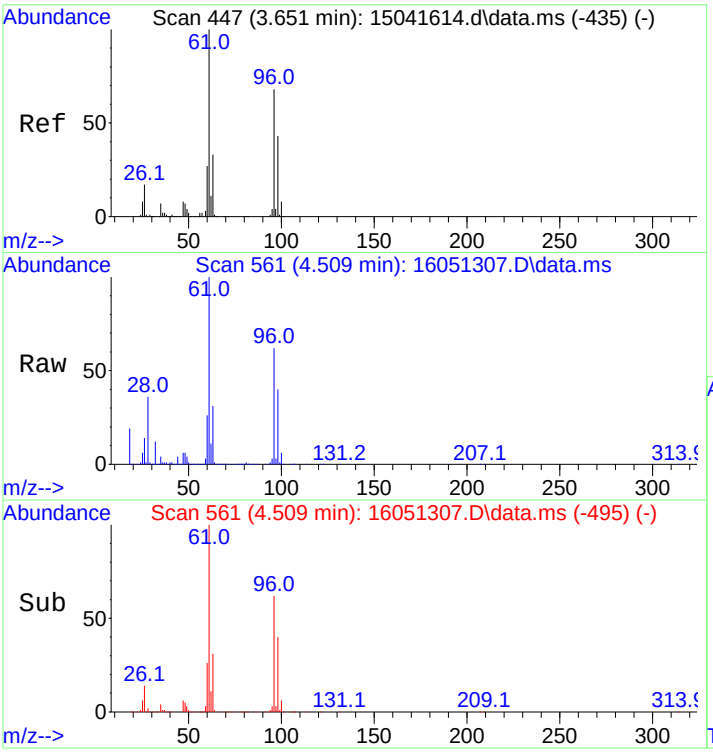


#12
Methylene Chloride
Concen: 157.09 ng
RT: 4.072 min Scan# 503
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 49 Resp: 175596

Ion	Ratio	Lower	Upper
49	100		
84	60.4	48.4	72.6

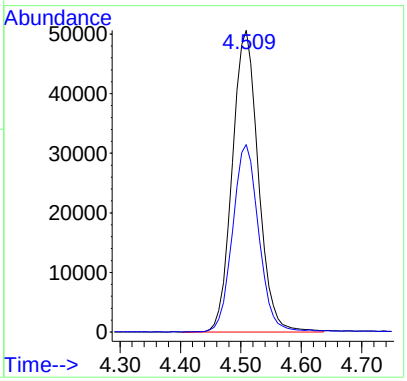


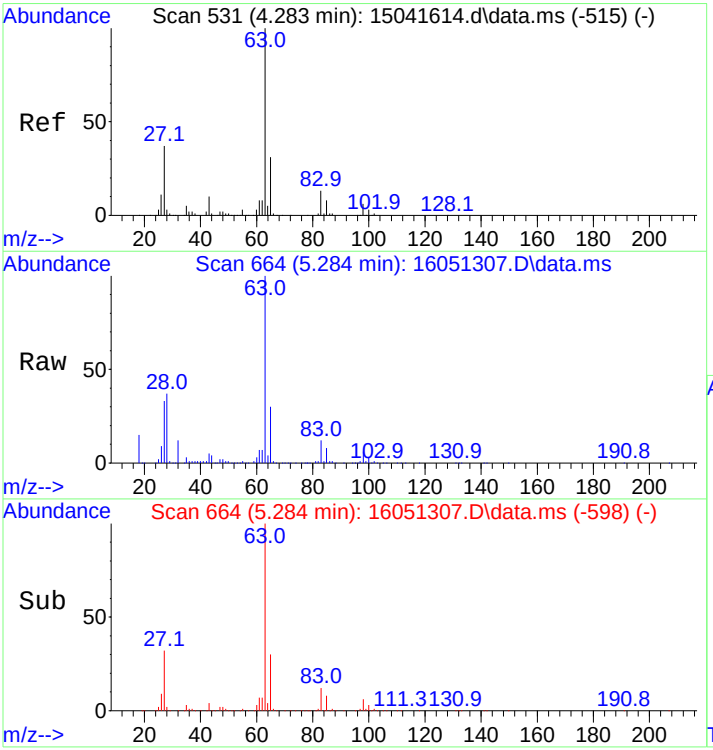


#13
trans,1,2-Dichloroethene
Concen: 141.27 ng
RT: 4.509 min Scan# 561
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 61 Resp: 151469

Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.2	75.4

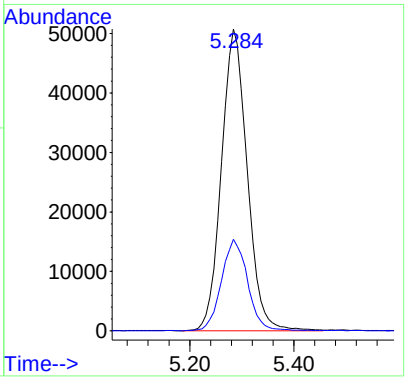


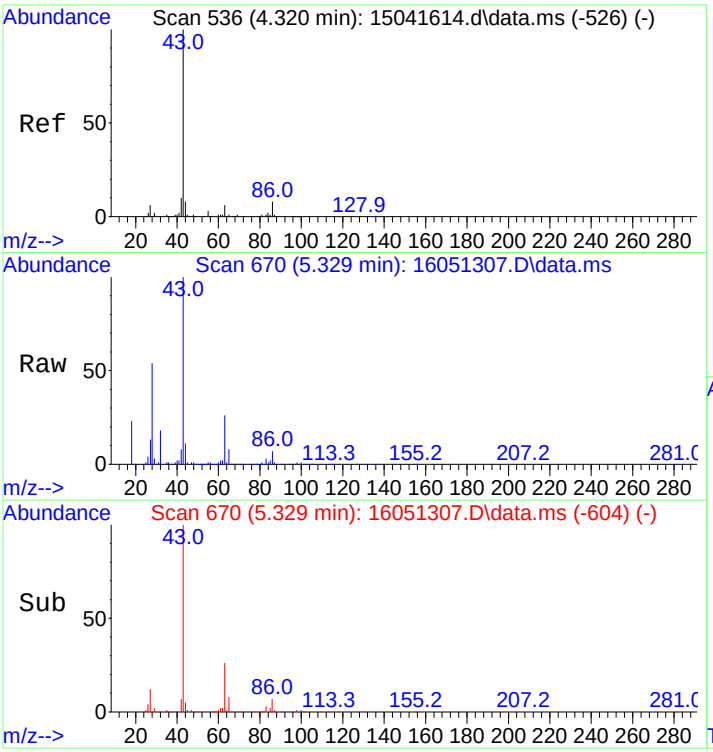


#14
1,1-Dichloroethane
Concen: 131.02 ng
RT: 5.284 min Scan# 664
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 63 Resp: 174237

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	37.0

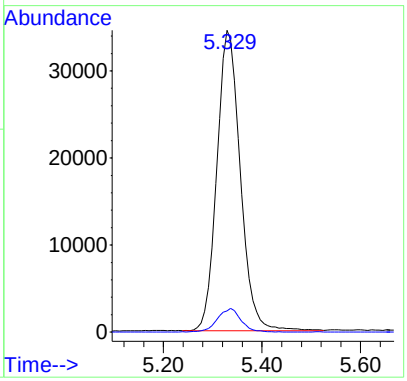


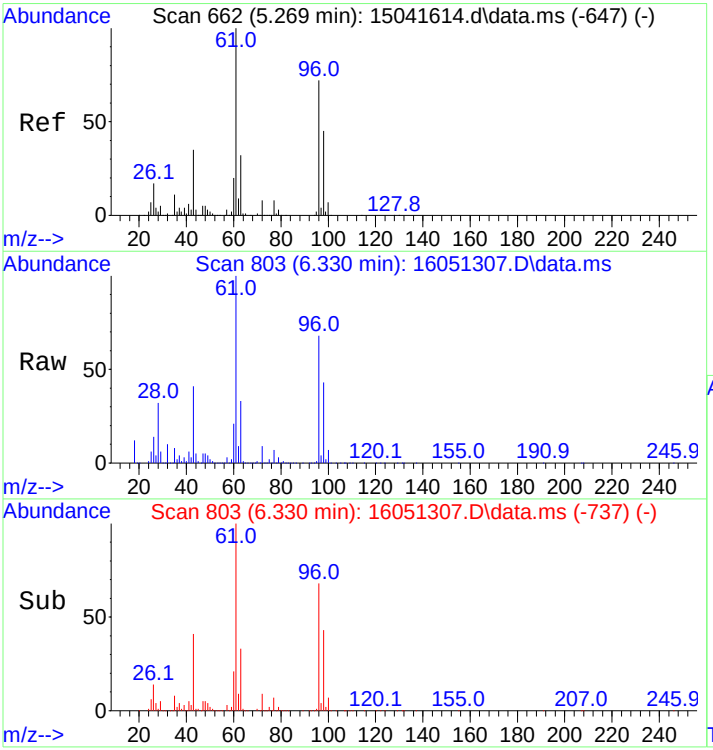


#15
Vinyl Acetate
Concen: 168.59 ng
RT: 5.329 min Scan# 670
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 114230

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.6	9.8

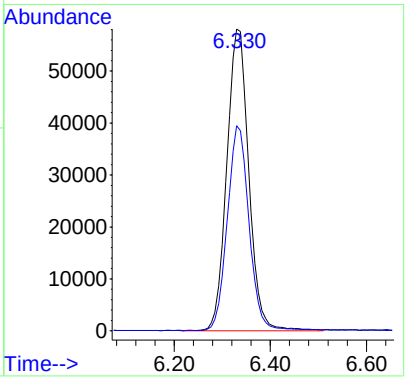


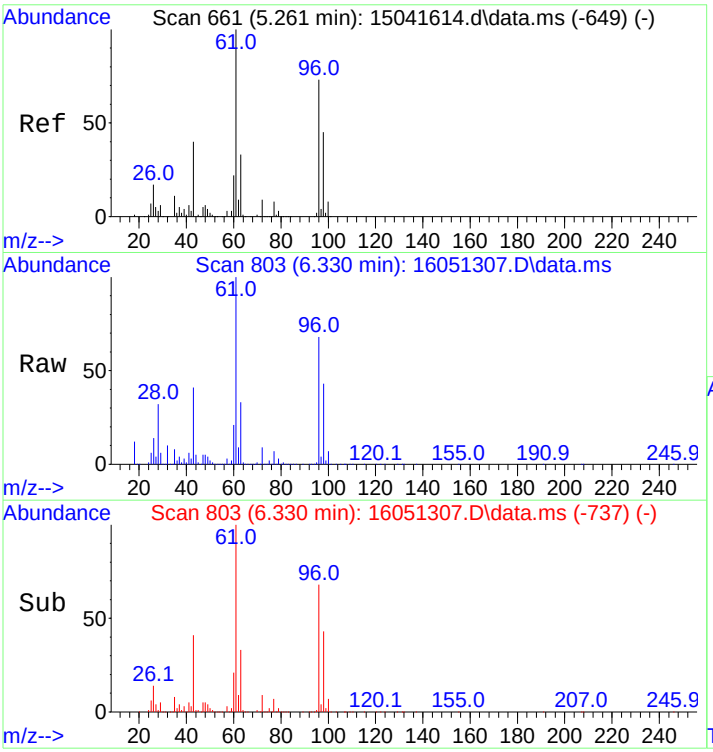


#16
cis,1,2-Dichloroethene
Concen: 148.74 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 61 Resp: 184834

Ion	Ratio	Lower	Upper
61	100		
96	66.7	54.6	81.8

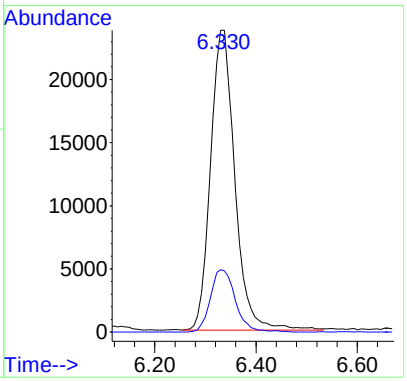


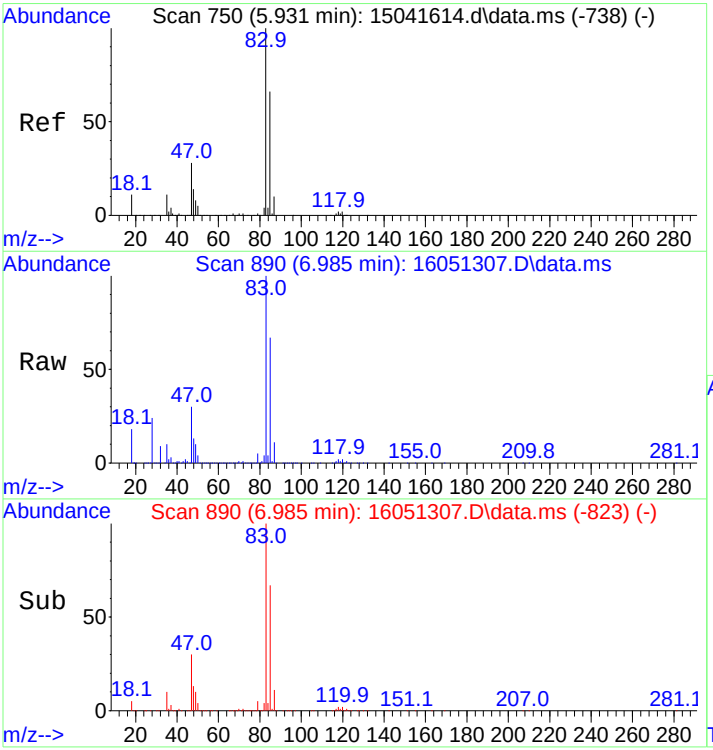


#17
2-Butanone
Concen: 183.91 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 79047

Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.4	26.2

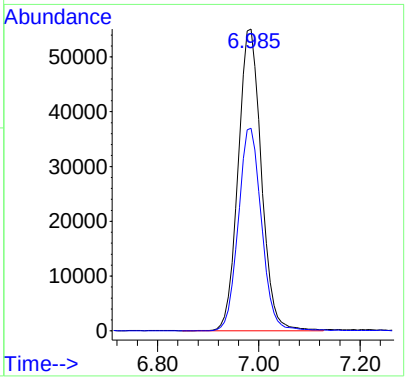


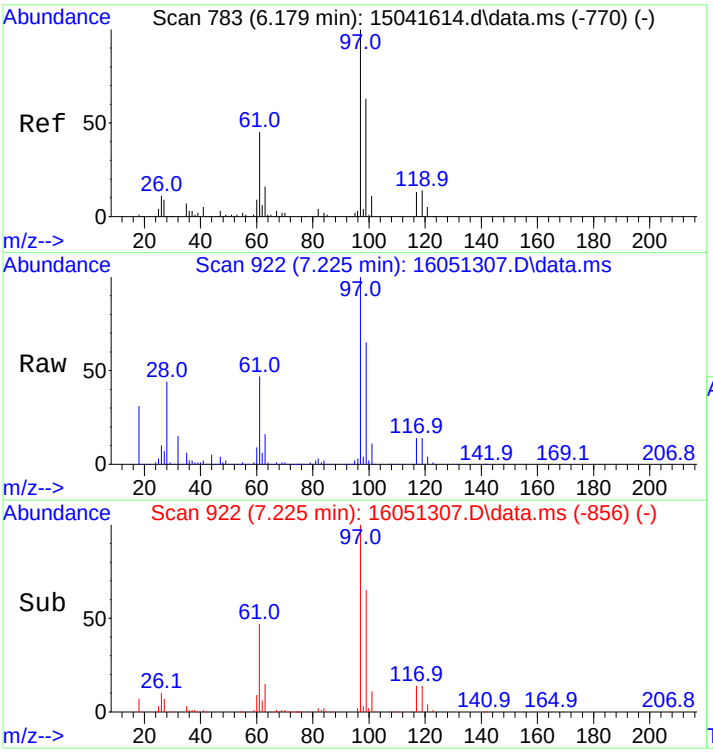


#18
Chloroform
Concen: 140.27 ng
RT: 6.985 min Scan# 890
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 174989

Ion	Ratio	Lower	Upper
83	100		
85	67.2	53.9	80.9

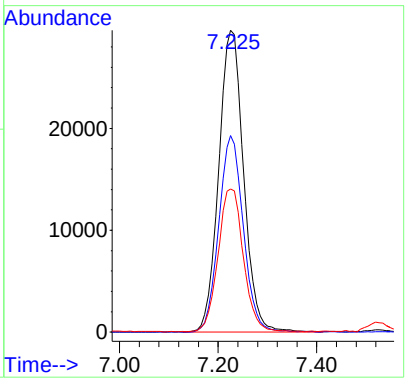


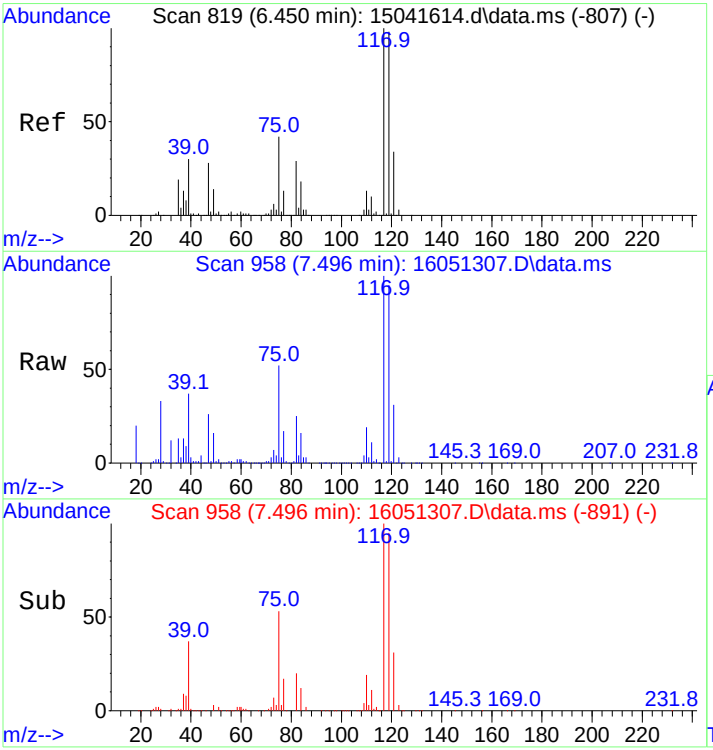


#19
1,1,1-Trichloroethane
Concen: 145.08 ng
RT: 7.225 min Scan# 922
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 97 Resp: 103498

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	48.6	37.6	56.4

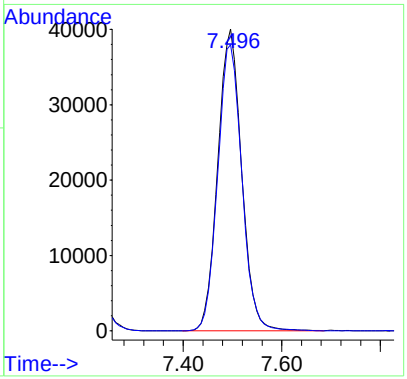


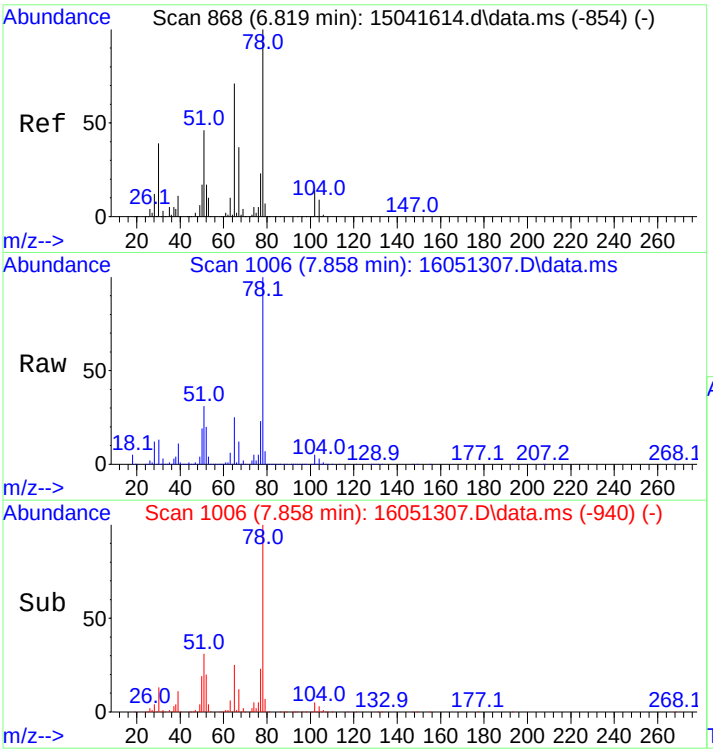


#22
Carbon Tetrachloride
Concen: 137.33 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:117 Resp: 134685

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.0	115.4

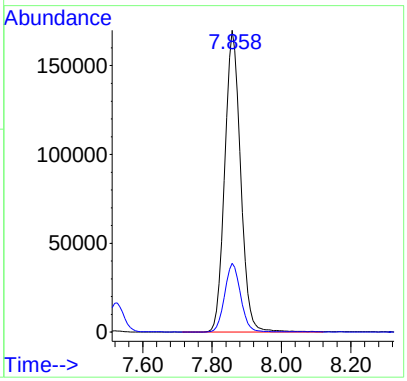


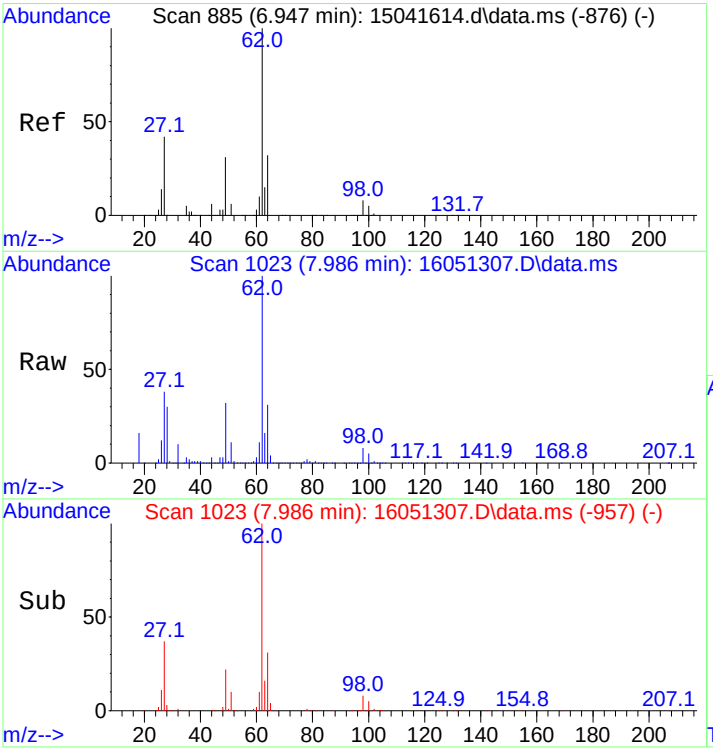


#23
Benzene
Concen: 144.83 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 78 Resp: 538255

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

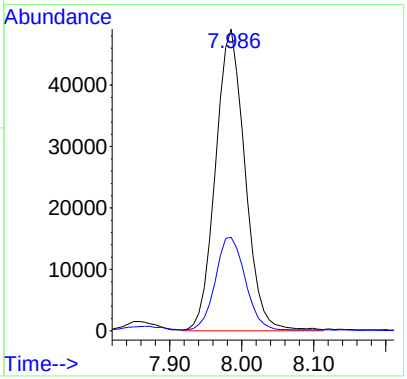


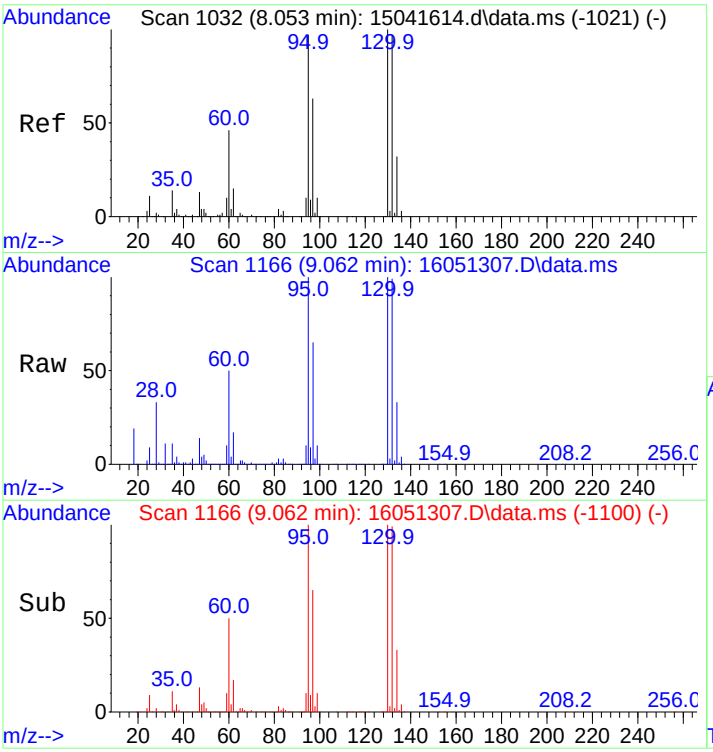


#24
1,2-Dichloroethane
Concen: 131.05 ng
RT: 7.986 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 62 Resp: 139424

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2

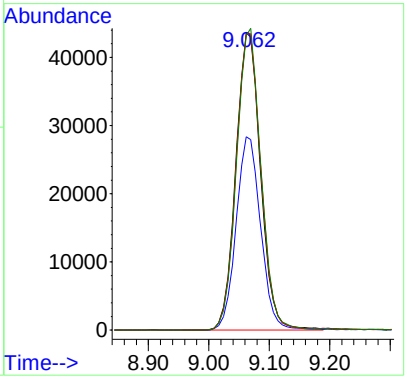


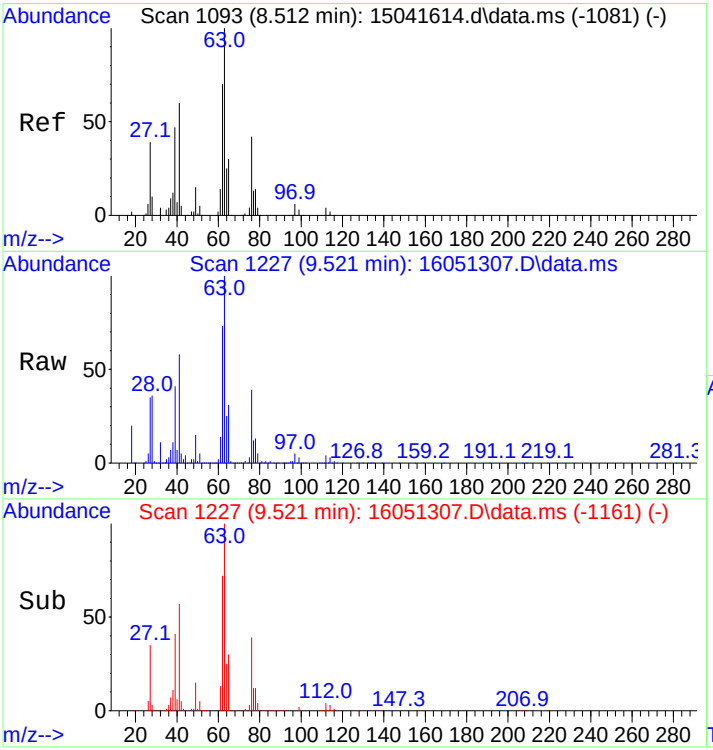


#25
Trichloroethene
Concen: 148.72 ng
RT: 9.062 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 95 Resp: 123916

Ion	Ratio	Lower	Upper
95	100		
97	64.6	51.8	77.8
130	100.3	81.9	122.9
132	100.8	81.2	121.8

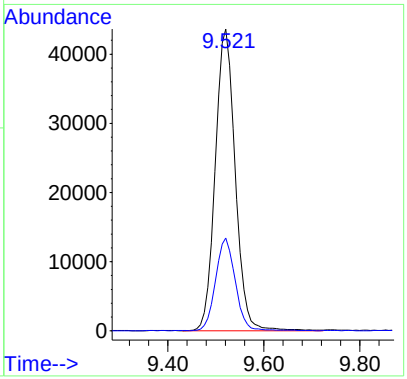


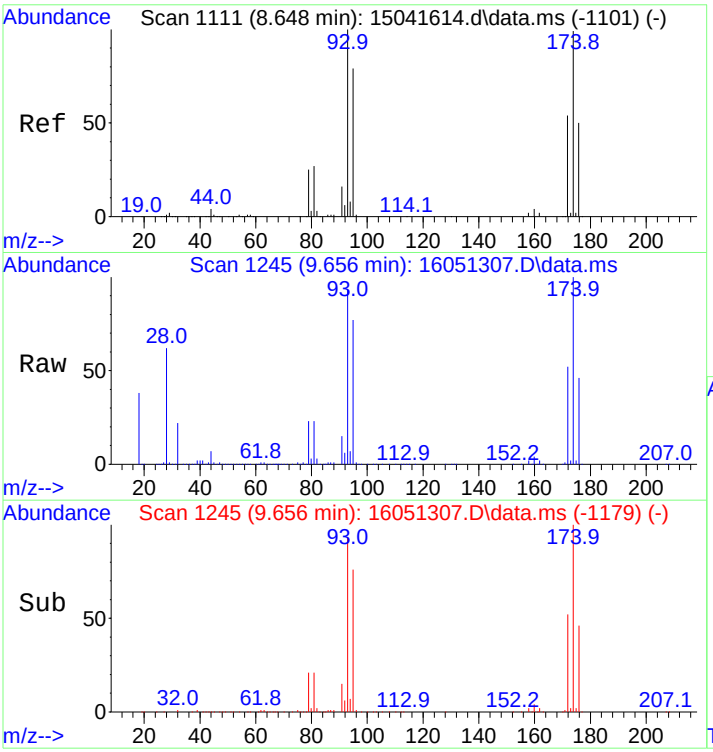


#26
1,2-Dichloropropane
Concen: 148.00 ng
RT: 9.521 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 63 Resp: 126079

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.2	36.2

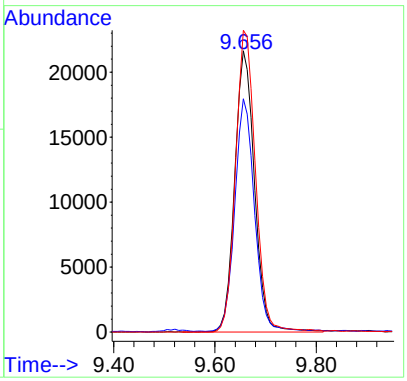


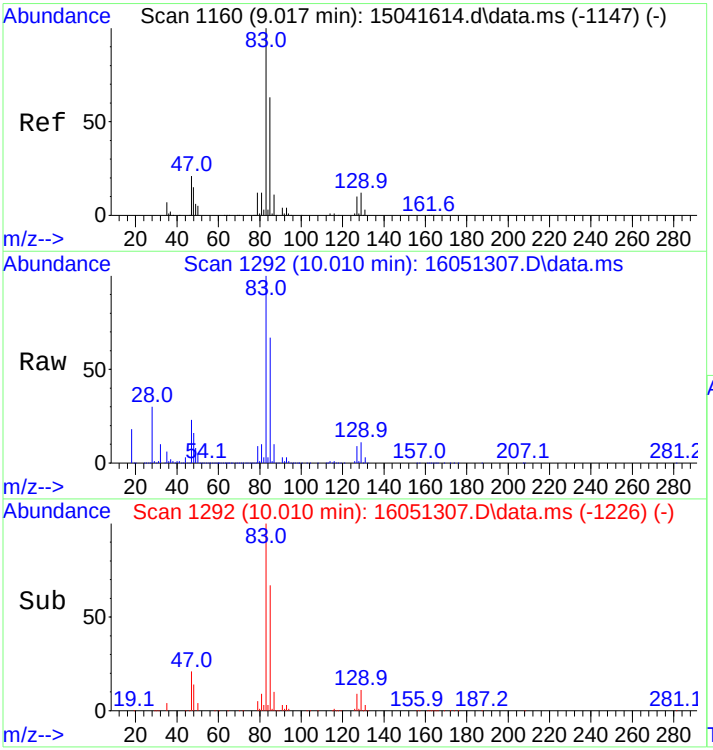


#27
Dibromomethane
Concen: 123.05 ng
RT: 9.656 min Scan# 1245
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 93 Resp: 58713

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	107.7	85.5	128.3

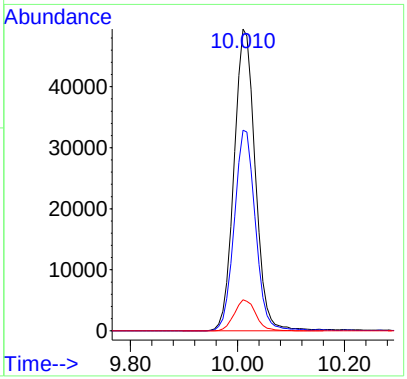


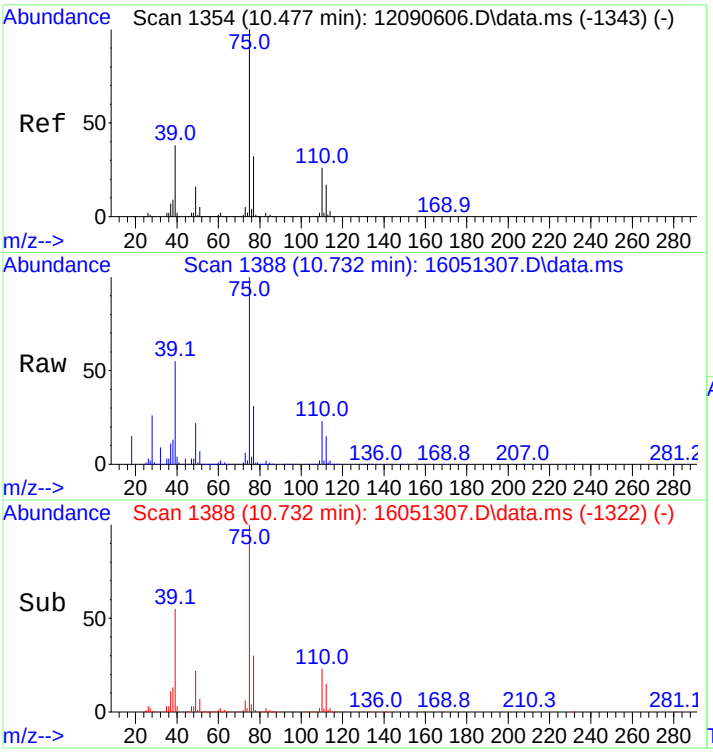


#28
Bromodichloromethane
Concen: 146.62 ng
RT: 10.010 min Scan# 1292
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 136001

Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.5	78.7
87	10.5	8.3	12.5

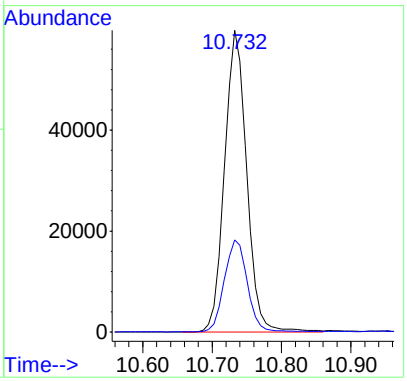


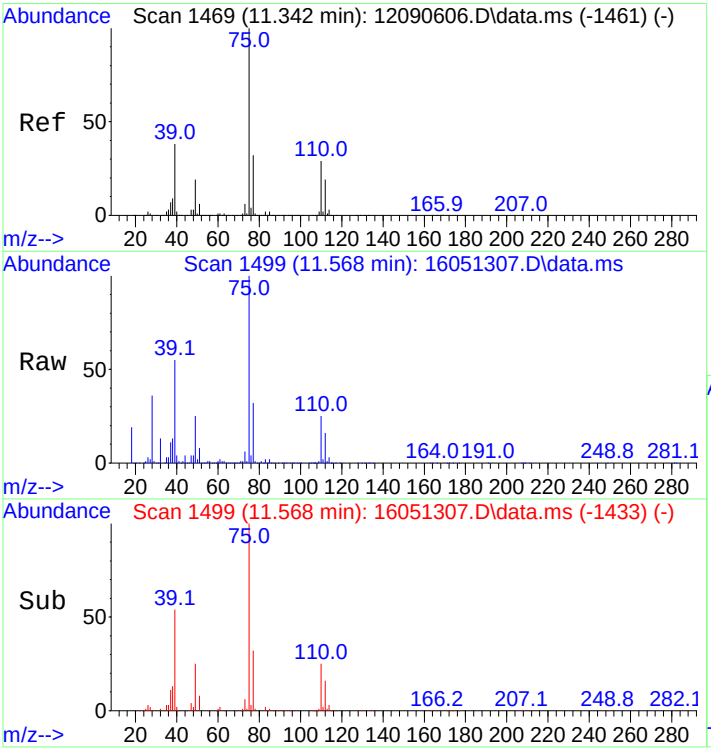


#29
cis,1,3-Dichloropropene
Concen: 139.48 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 132539

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4

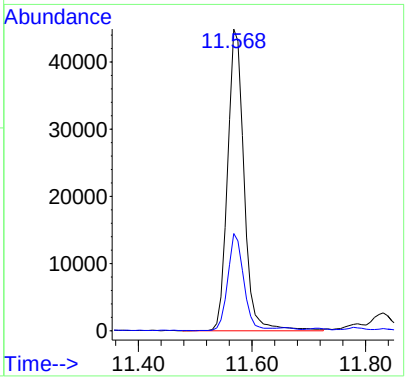


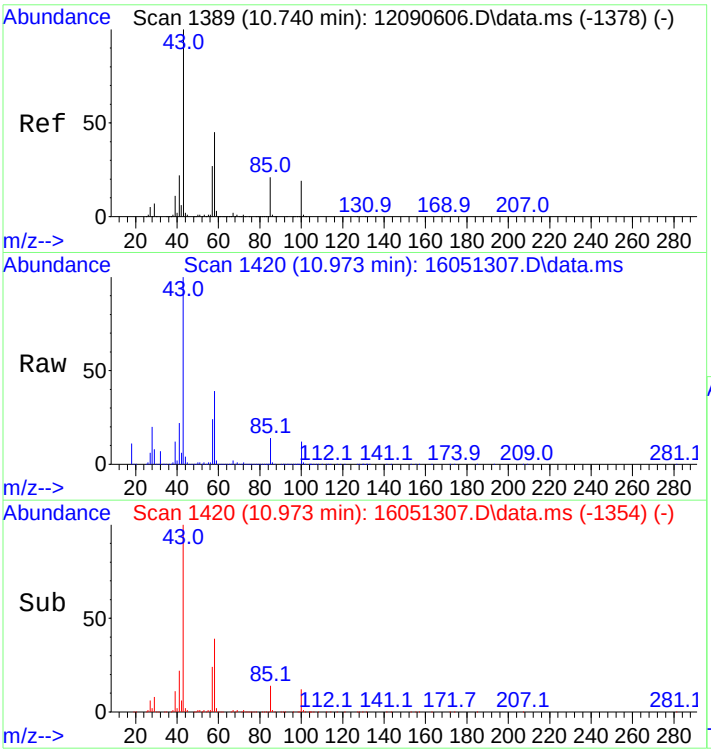


#30
trans,1,3-Dichloropropene
Concen: 140.59 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 90868

Ion	Ratio	Lower	Upper
75	100		
77	30.9	26.0	39.0

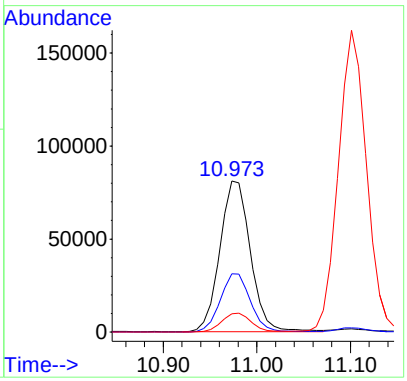


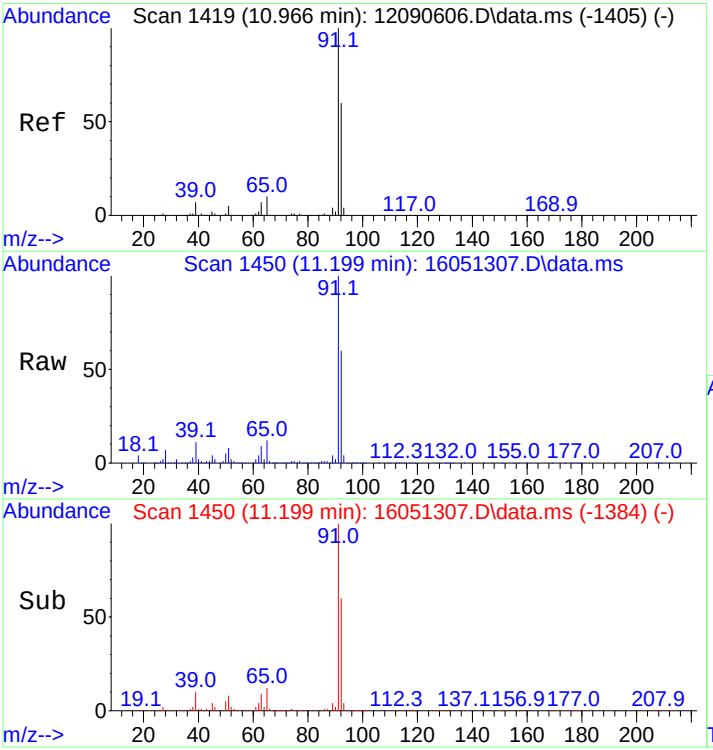


#31
4-Methyl-2-Pentanone
Concen: 146.68 ng
RT: 10.973 min Scan# 1420
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 184009

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.3	46.9
100	12.4	10.2	15.2

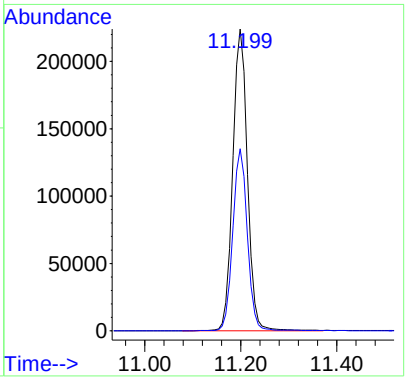


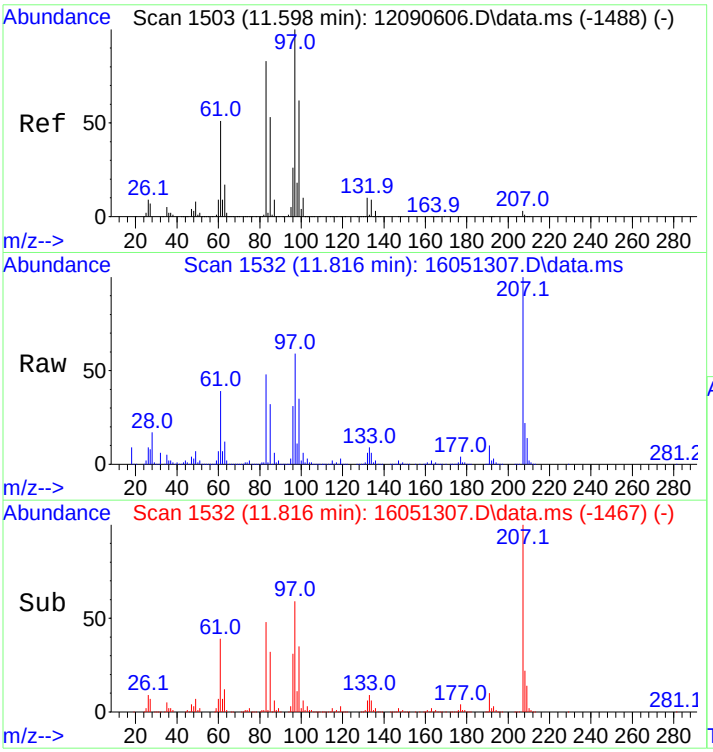


#33
Toluene
Concen: 147.38 ng
RT: 11.199 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 475435

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.6	73.0

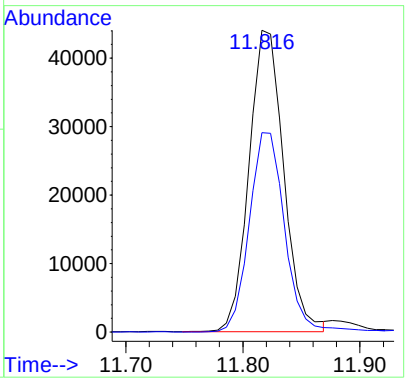


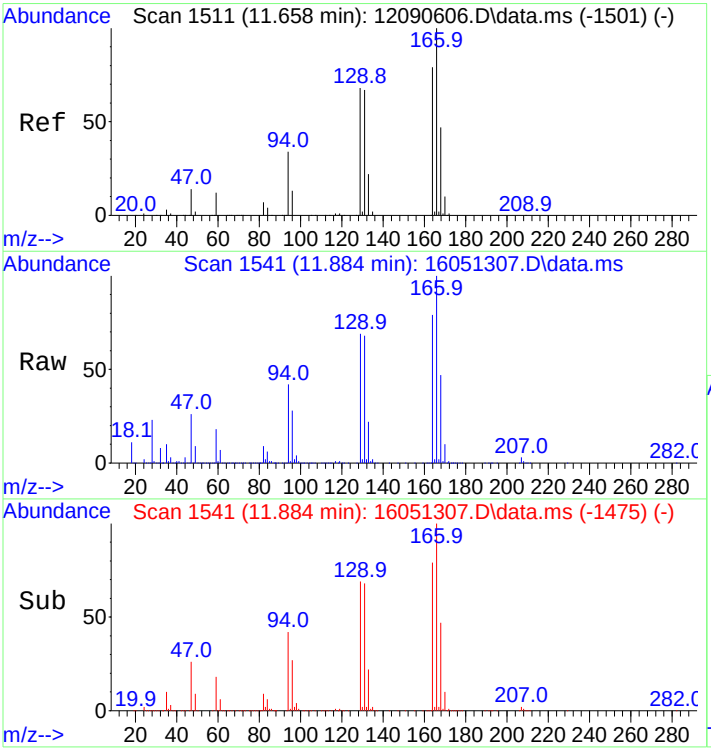


#34
1,1,2-Trichloroethane
Concen: 163.14 ng
RT: 11.816 min Scan# 1532
Delta R.T. -0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 90950

Ion	Ratio	Lower	Upper
83	100		
85	67.4	54.7	82.1

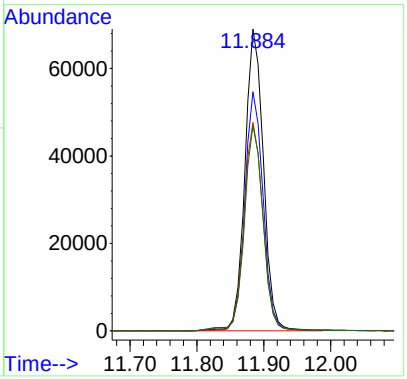


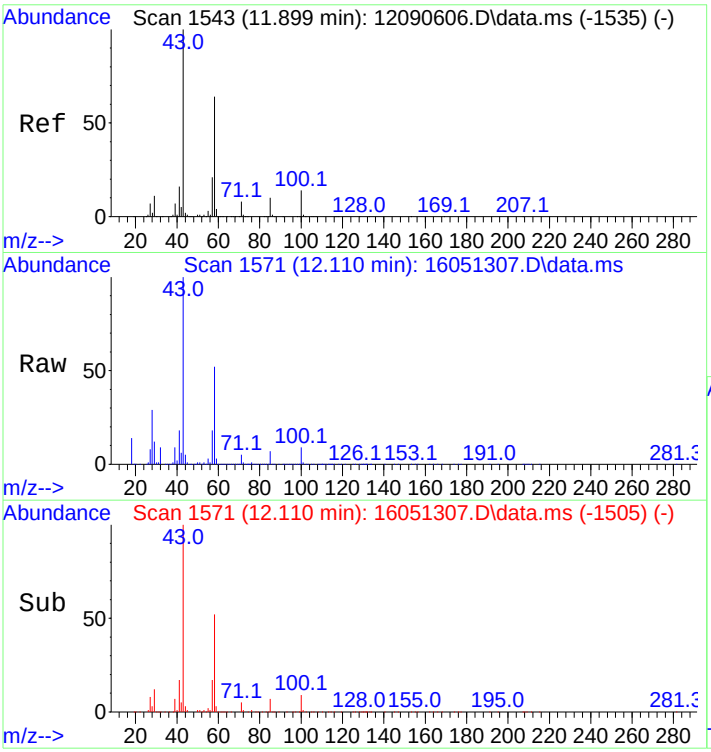


#35
Tetrachloroethene
Concen: 156.71 ng
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:166 Resp: 132395

Ion	Ratio	Lower	Upper
166	100		
164	79.5	63.2	94.8
129	70.1	55.5	83.3
131	69.4	55.2	82.8

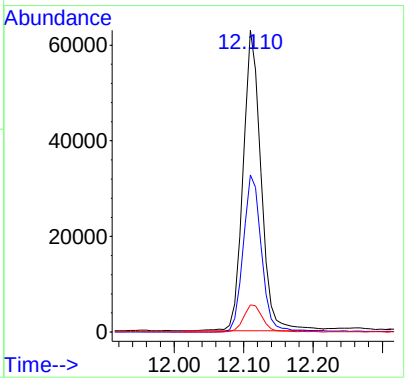


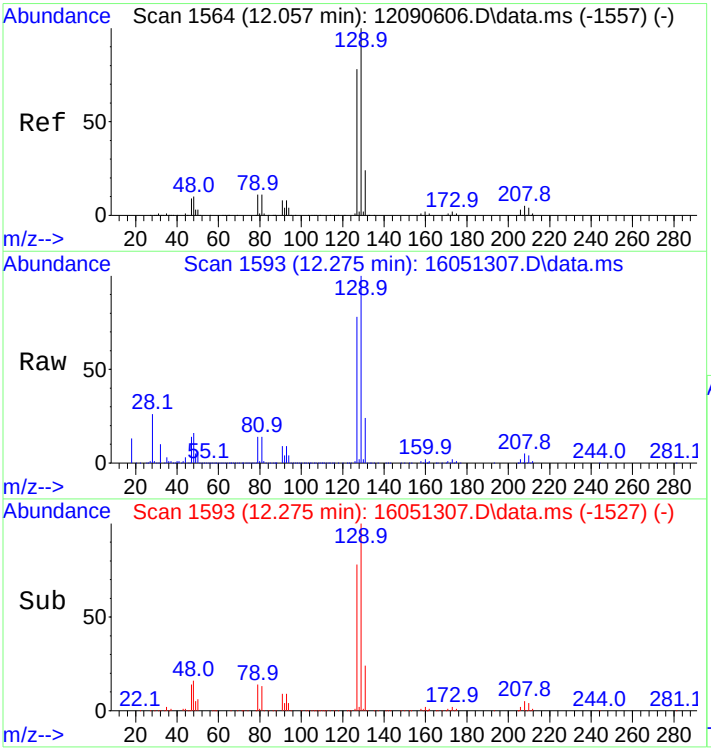


#36
2-Hexanone
Concen: 136.70 ng
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 43 Resp: 113133

Ion	Ratio	Lower	Upper
43	100		
58	53.5	43.6	65.4
100	9.8	7.8	11.8

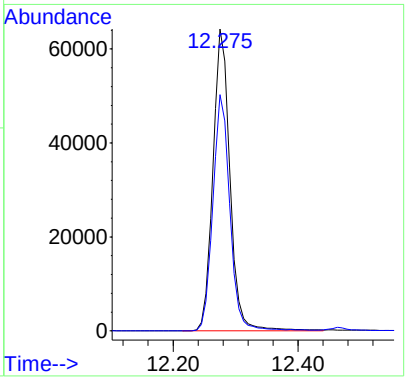


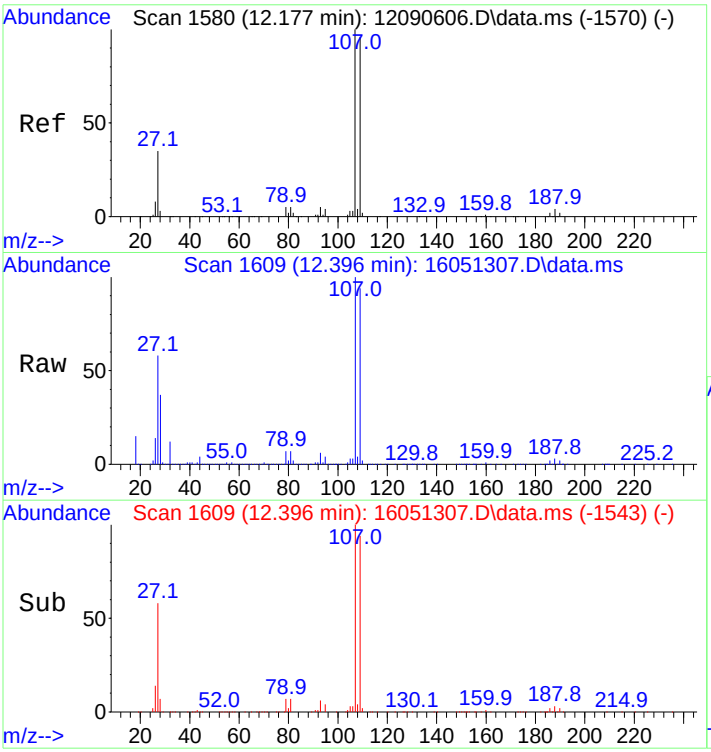


#37
Chlorodibromomethane
Concen: 161.09 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:129 Resp: 121809

Ion	Ratio	Lower	Upper
129	100		
127	78.5	62.3	93.5

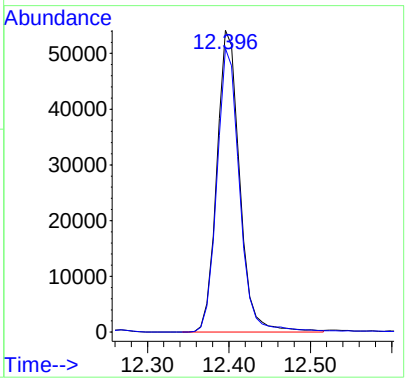


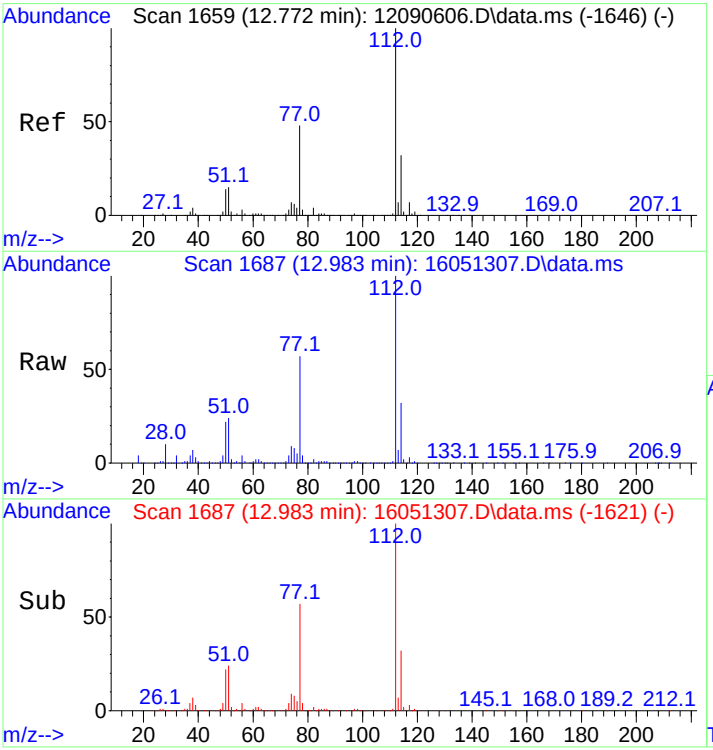


#38
Ethylene Dibromide
Concen: 153.25 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:107 Resp: 105782

Ion	Ratio	Lower	Upper
107	100		
109	94.6	74.3	111.5

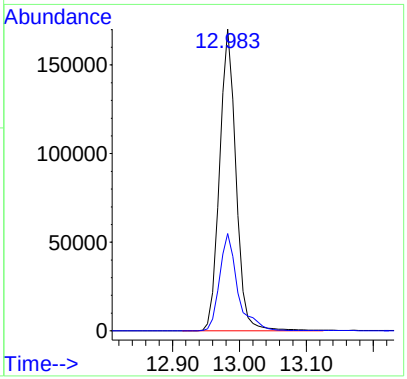


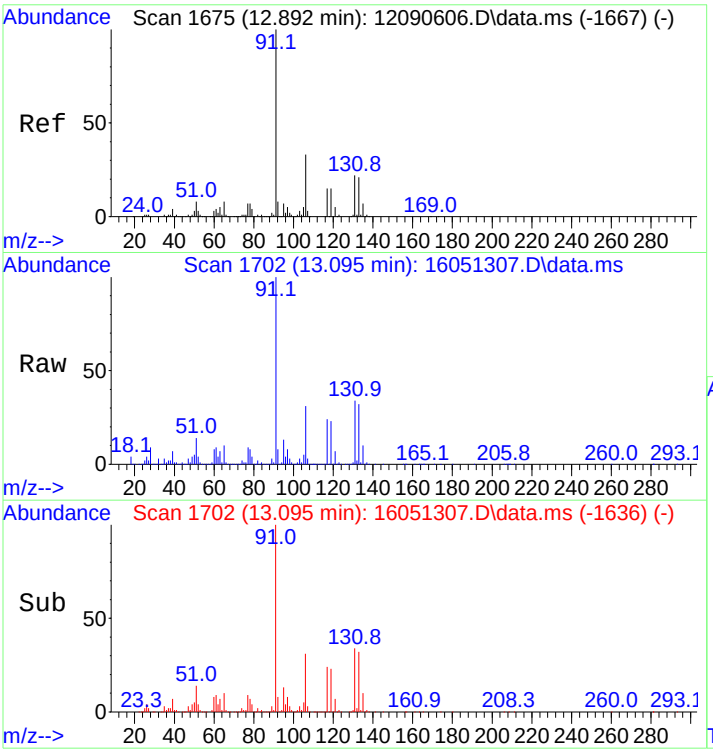


#39
Chlorobenzene
Concen: 146.66 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:112 Resp: 290708

Ion	Ratio	Lower	Upper
112	100		
114	35.7	27.5	41.3

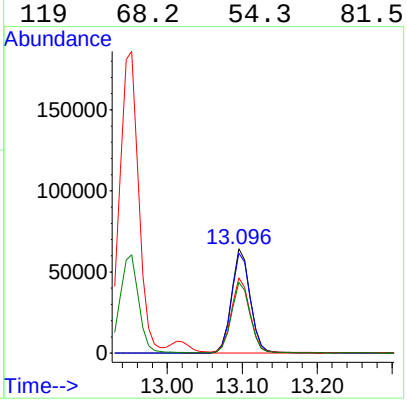


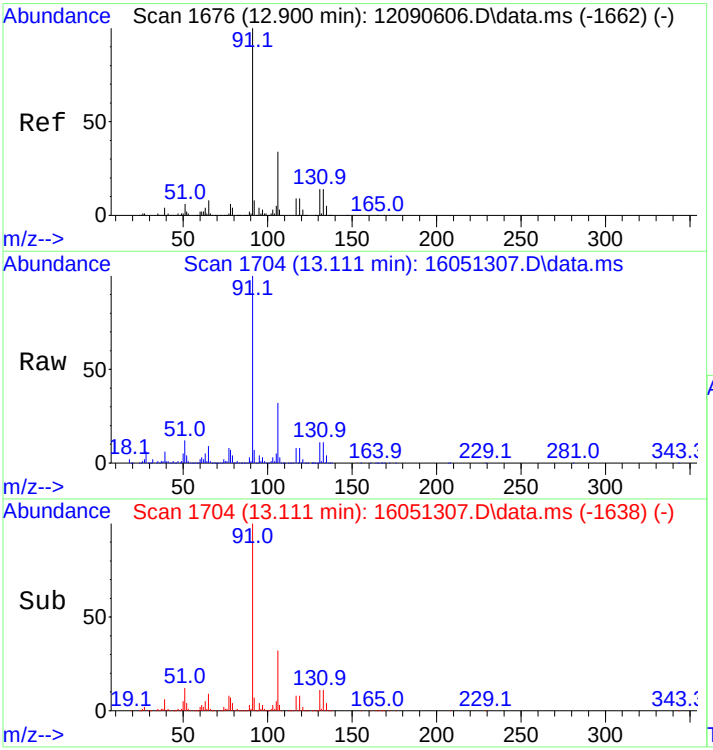


#40
1,1,1,2-Tetrachloroethane
Concen: 158.67 ng
RT: 13.095 min Scan# 1702
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:131 Resp: 111624

Ion	Ratio	Lower	Upper
131	100		
133	96.6	77.8	116.6
117	72.6	57.1	85.7
119	68.2	54.3	81.5

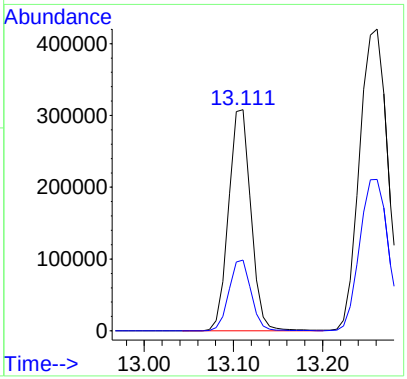


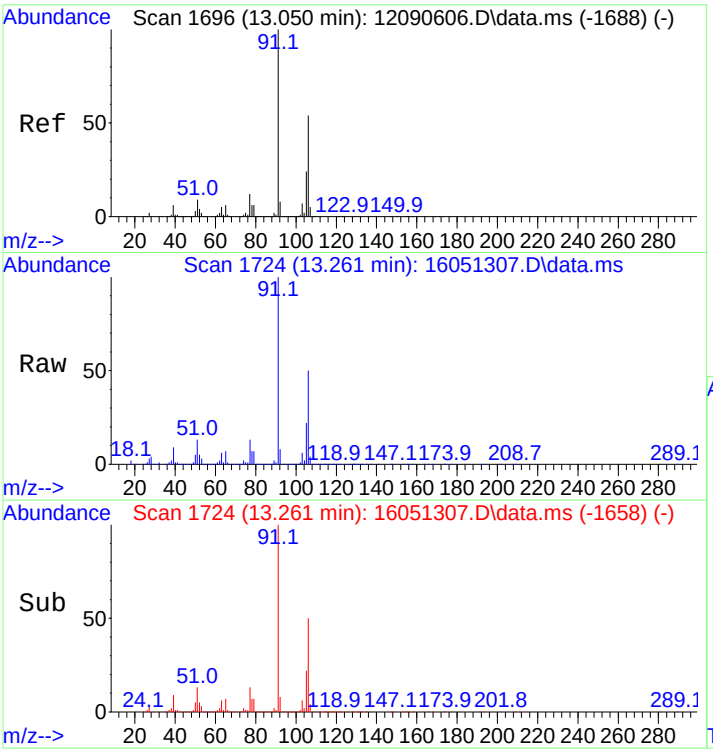


#41
Ethylbenzene
Concen: 146.47 ng
RT: 13.111 min Scan# 1704
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 536782

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.5	38.3

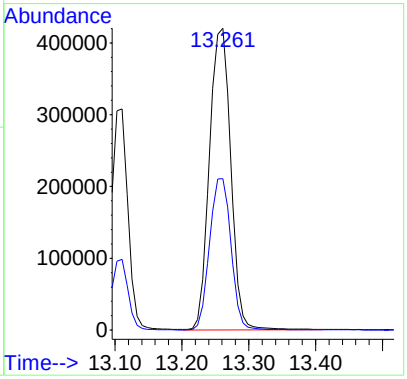


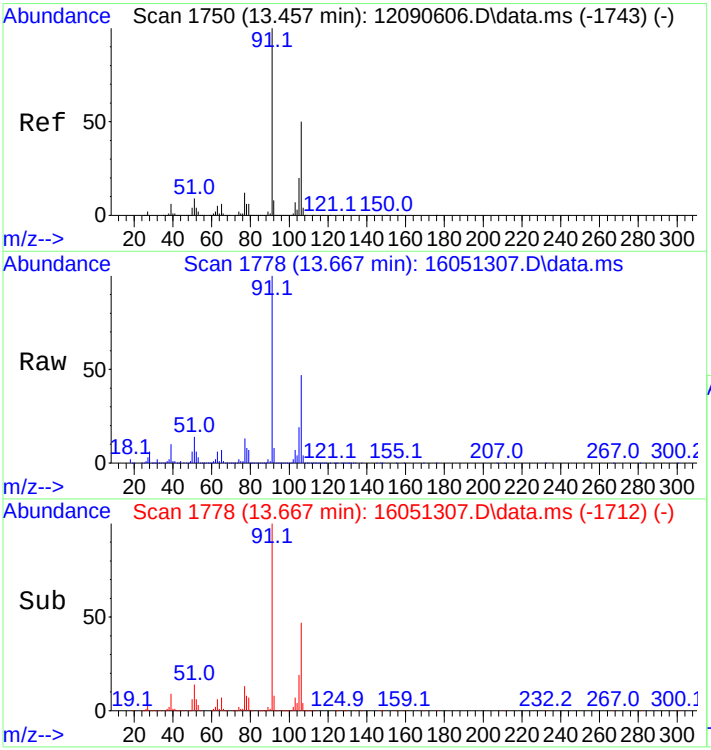


#42
M&P-Xylene
Concen: 299.03 ng
RT: 13.261 min Scan# 1724
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 931856

Ion	Ratio	Lower	Upper
91	100		
106	50.4	40.4	60.6

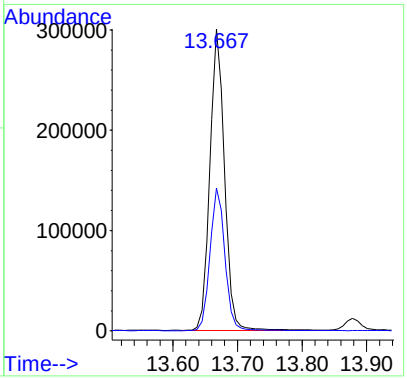


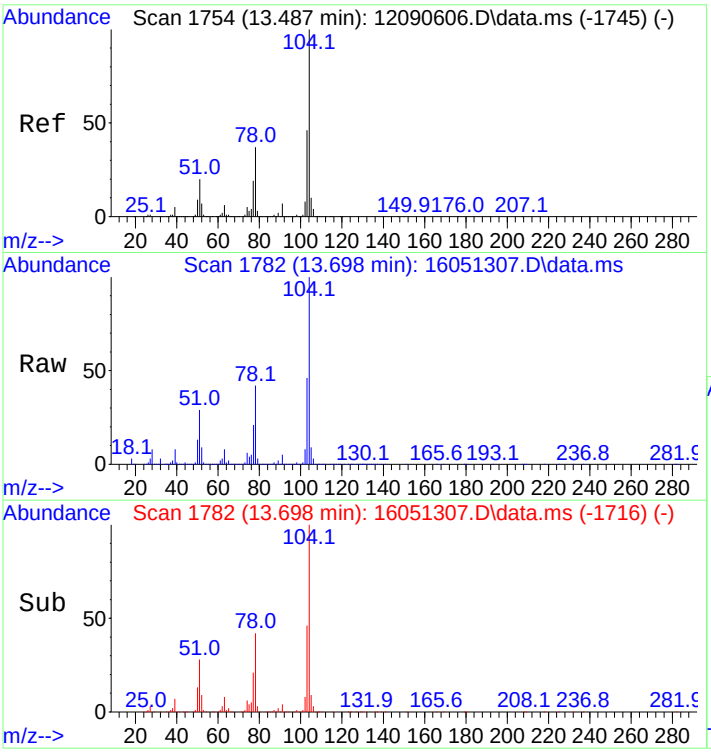


#43
O-Xylene
Concen: 146.90 ng
RT: 13.667 min Scan# 1778
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 474591

Ion	Ratio	Lower	Upper
91	100		
106	48.3	38.2	57.2

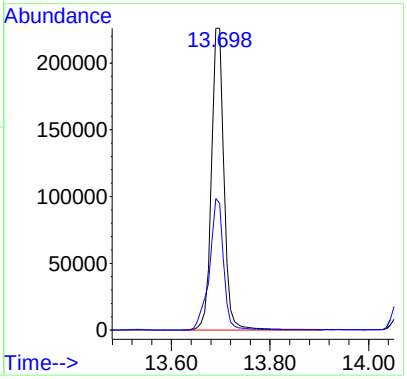


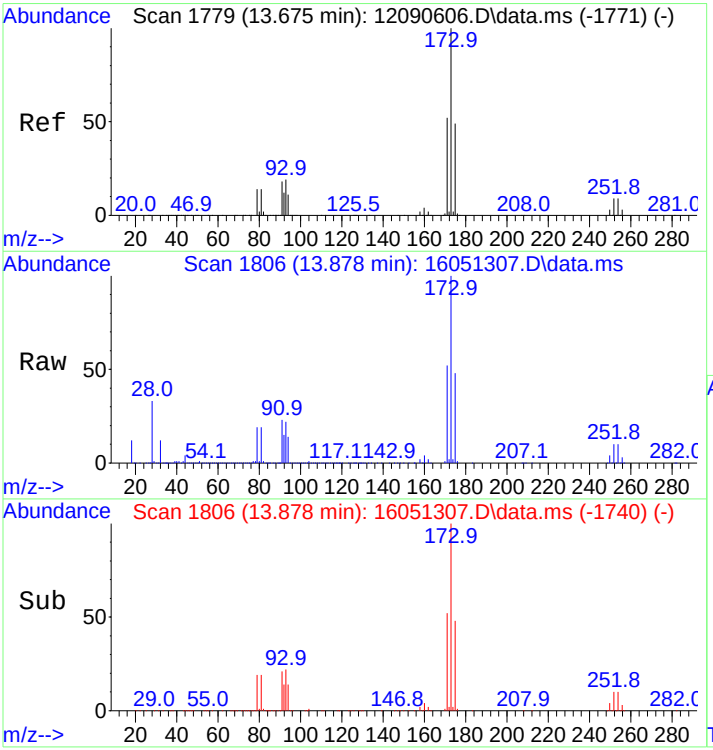


#44
Styrene
Concen: 144.94 ng
RT: 13.698 min Scan# 1782
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:104 Resp: 399706

Ion	Ratio	Lower	Upper
104	100		
78	48.9	39.8	59.6

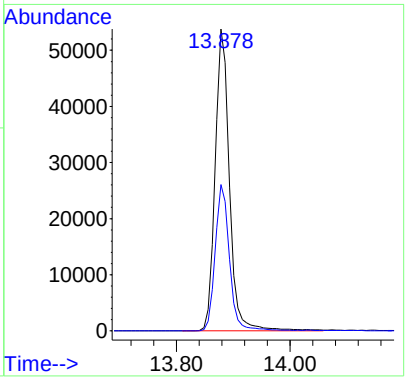


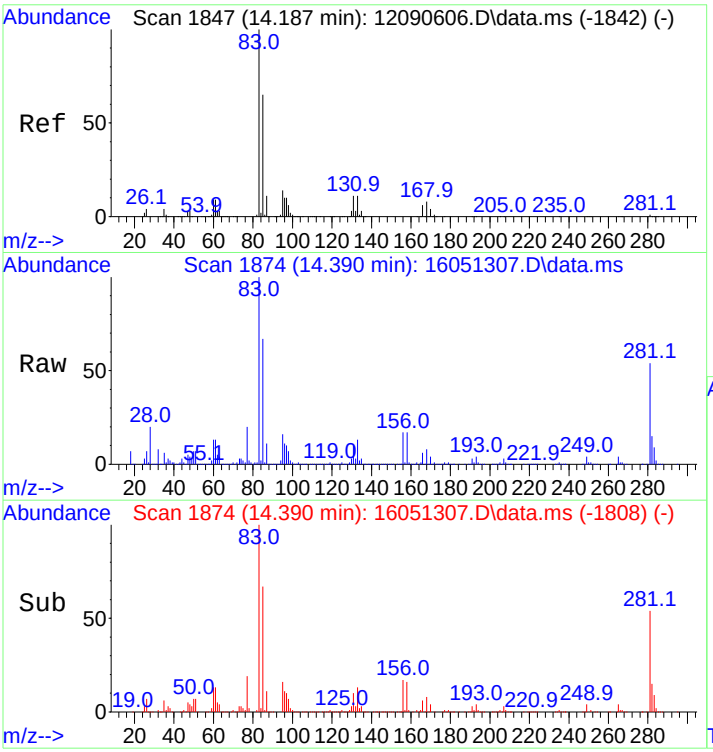


#45
Bromoform
Concen: 158.55 ng
RT: 13.878 min Scan# 1806
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:173 Resp: 94490

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.5	57.7

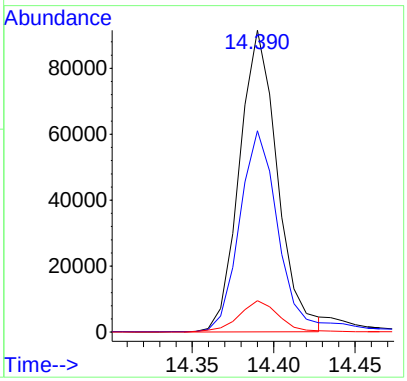


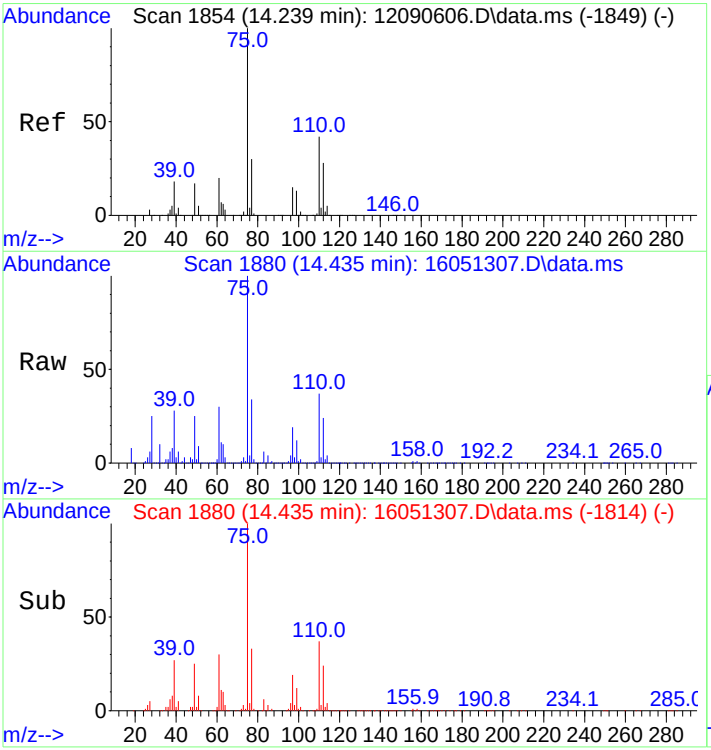


#46
1,1,2,2-Tetrachloroethane
Concen: 153.83 ng m
RT: 14.390 min Scan# 1874
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 83 Resp: 148473

Ion	Ratio	Lower	Upper
83	100		
85	66.7	53.2	79.8
131	11.3	9.0	13.6

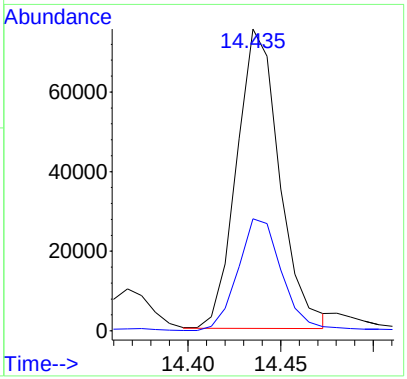


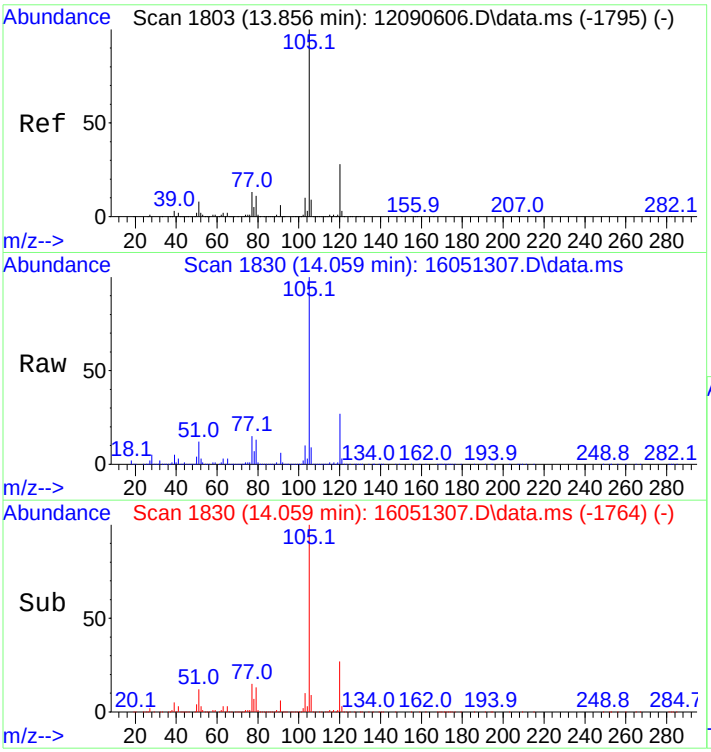


#47
1,2,3-Trichloropropane
Concen: 151.93 ng m
RT: 14.435 min Scan# 1880
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 121144

Ion	Ratio	Lower	Upper
75	100		
110	39.3	30.3	45.5

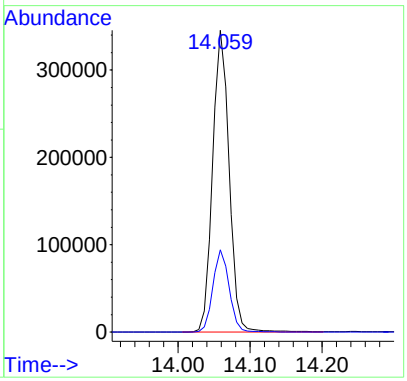


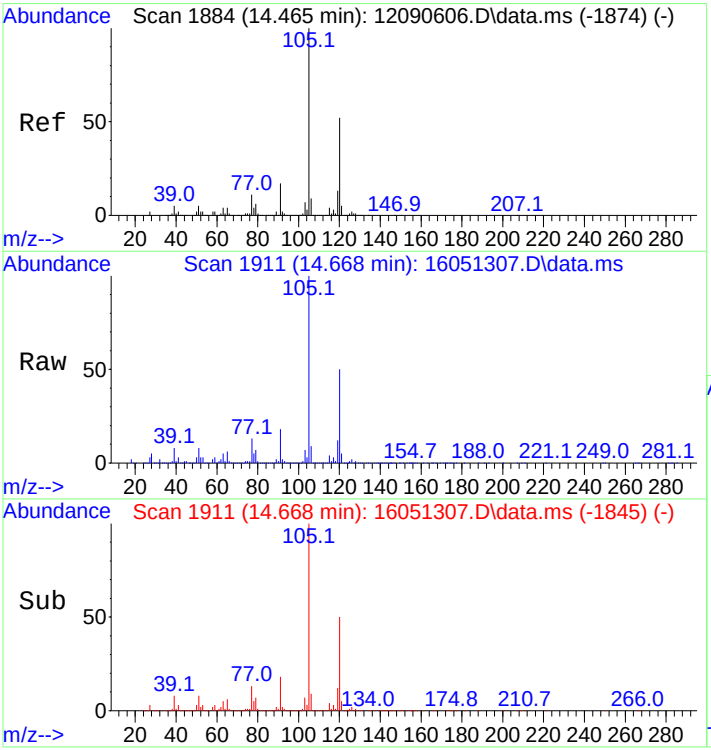


#51
Isopropylbenzene
Concen: 146.55 ng
RT: 14.059 min Scan# 1830
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 550224

Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.4	32.2

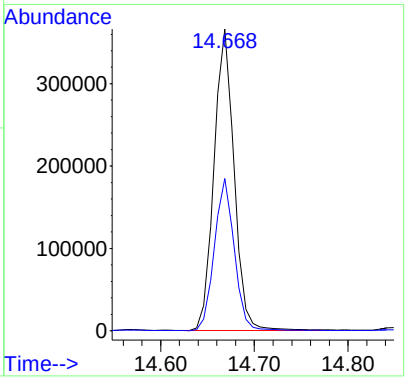


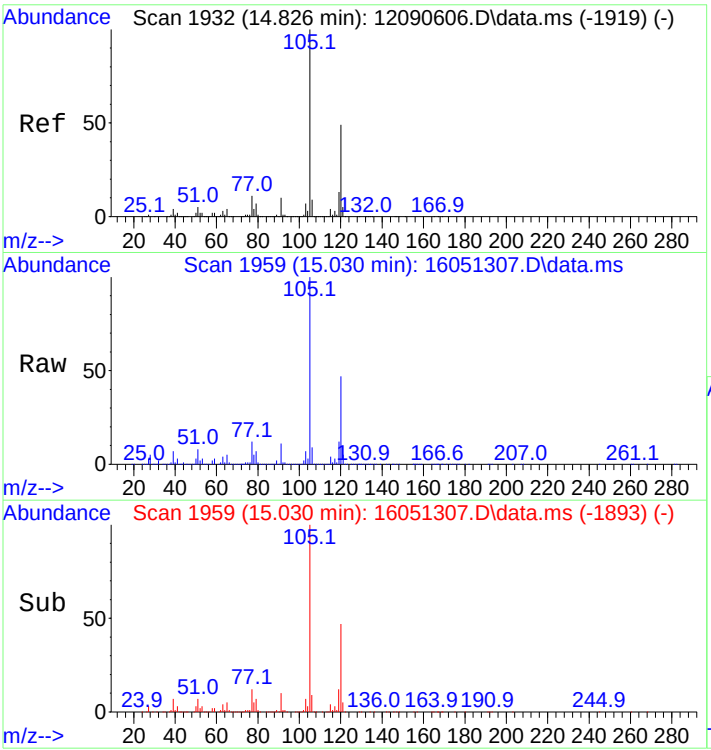


#52
1,3,5-Trimethylbenzene
Concen: 149.36 ng
RT: 14.668 min Scan# 1911
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 546538

Ion	Ratio	Lower	Upper
105	100		
120	50.1	39.9	59.9

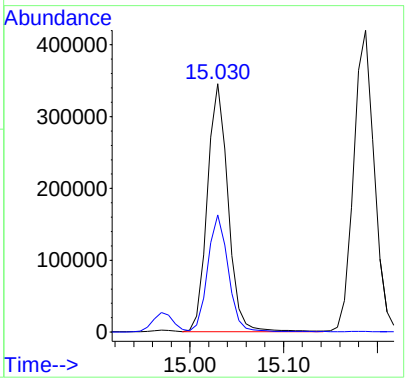


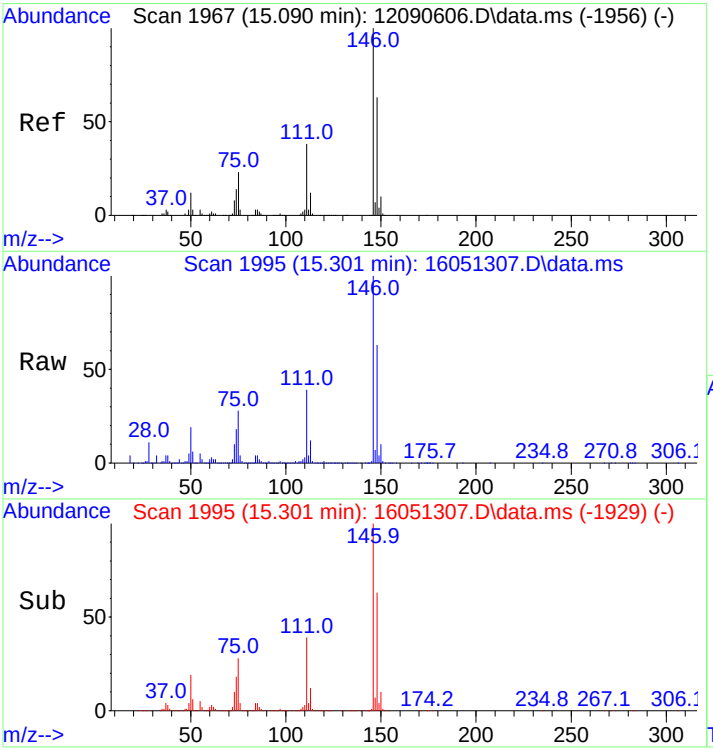


#53
1,2,4-Trimethylbenzene
Concen: 146.75 ng
RT: 15.030 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 530206

Ion	Ratio	Lower	Upper
105	100		
120	47.1	37.5	56.3

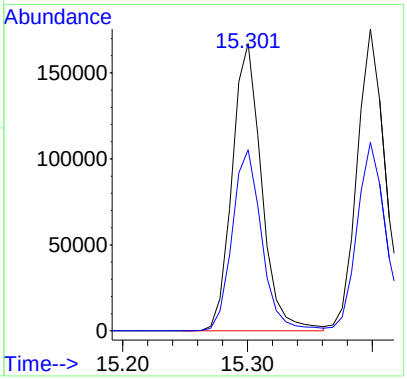


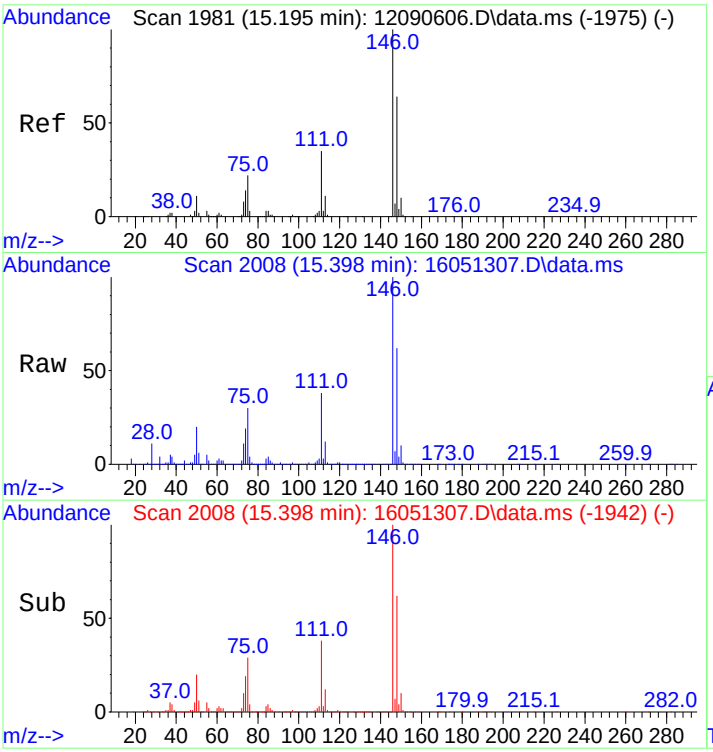


#54
1,3-Dichlorobenzene
Concen: 145.82 ng
RT: 15.301 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:146 Resp: 274957

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.6	76.0

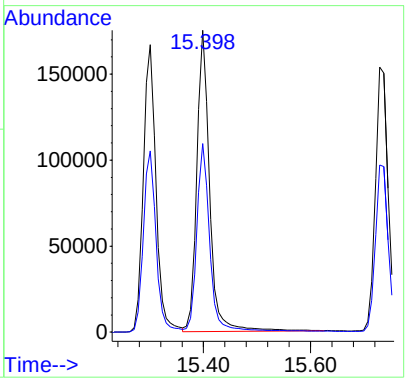


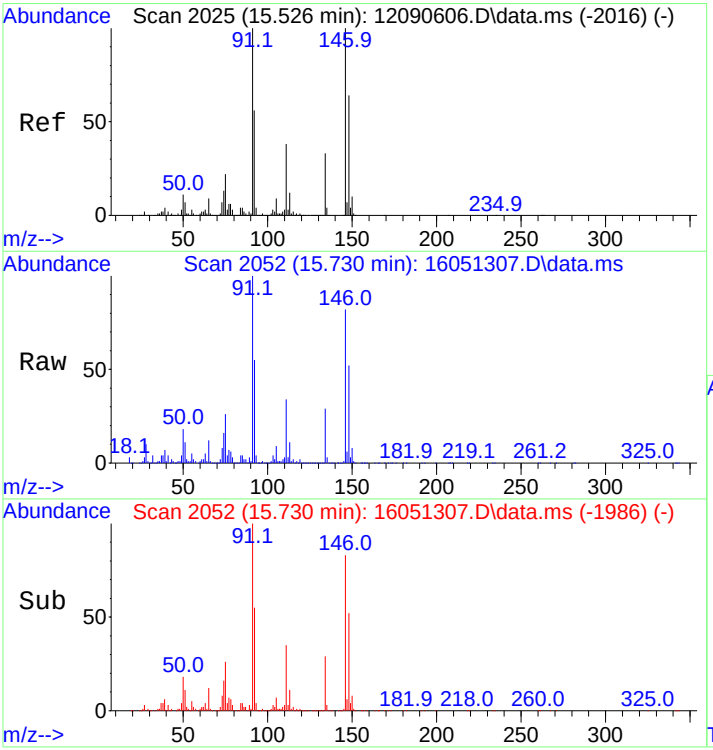


#55
1,4-Dichlorobenzene
Concen: 146.84 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:146 Resp: 292670

Ion	Ratio	Lower	Upper
146	100		
148	63.2	49.9	74.9

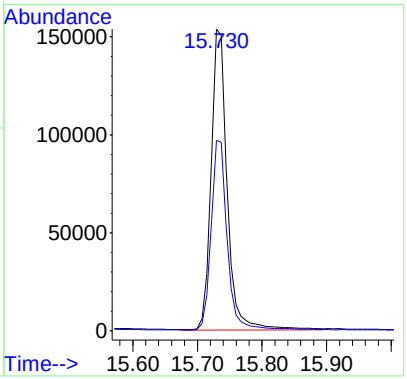


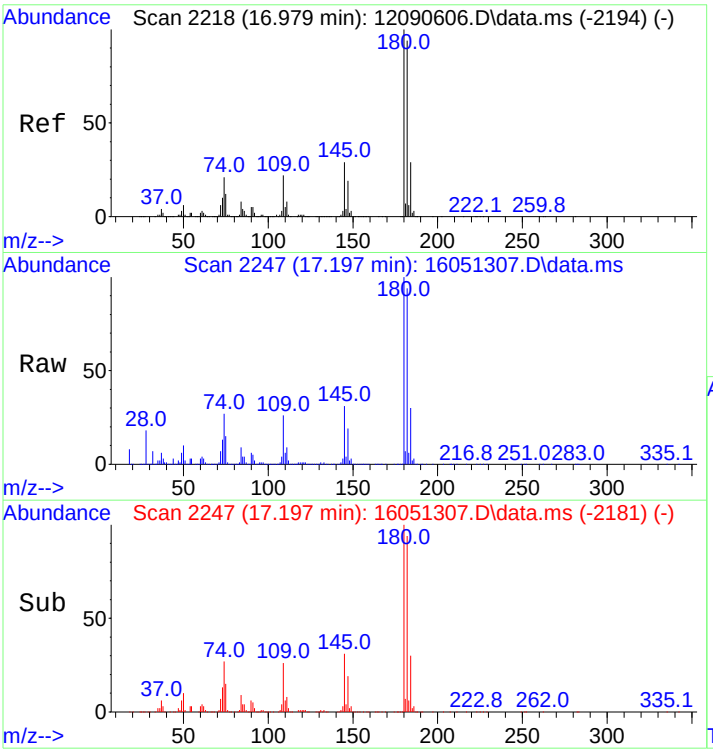


#56
1,2-Dichlorobenzene
Concen: 150.72 ng
RT: 15.730 min Scan# 2052
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:146 Resp: 268805

Ion	Ratio	Lower	Upper
146	100		
148	63.2	49.9	74.9

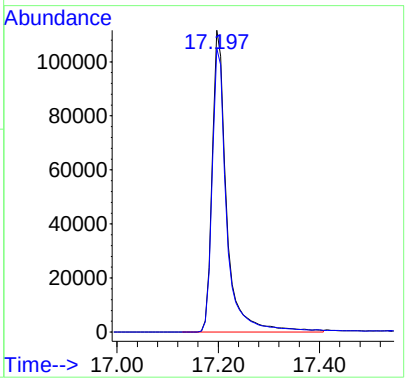


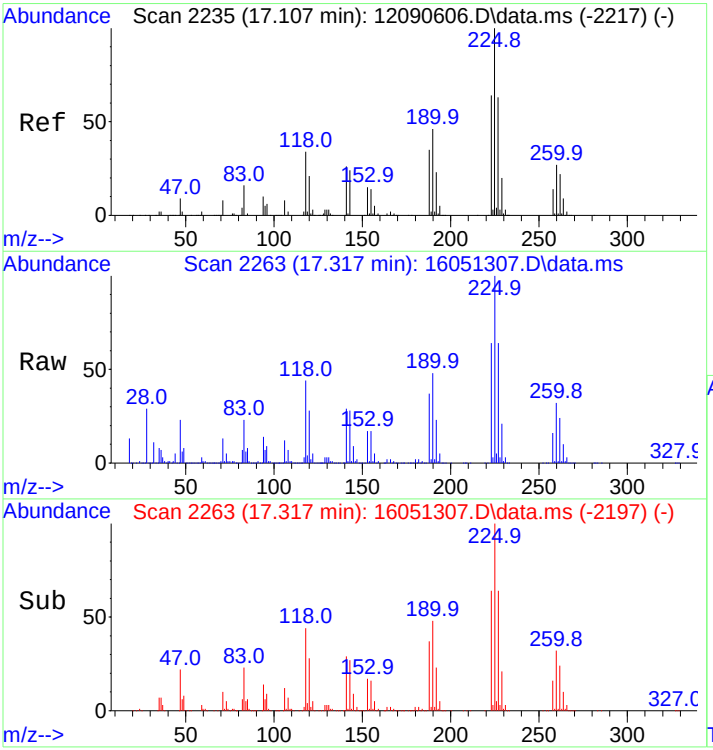


#57
1,2,4-Trichlorobenzene
Concen: 146.40 ng
RT: 17.197 min Scan# 2247
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:180 Resp: 221446

Ion	Ratio	Lower	Upper
180	100		
182	95.9	75.0	112.4

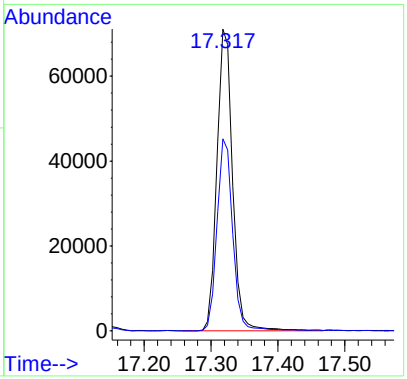


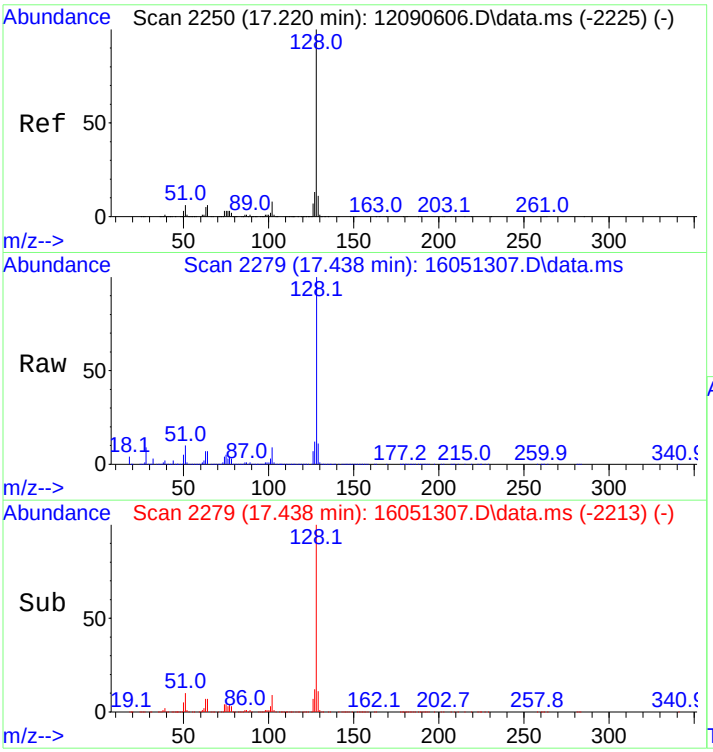


#58
Hexachlorobutadiene
Concen: 145.67 ng
RT: 17.317 min Scan# 2263
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:225 Resp: 115820

Ion	Ratio	Lower	Upper
225	100		
227	63.8	51.1	76.7

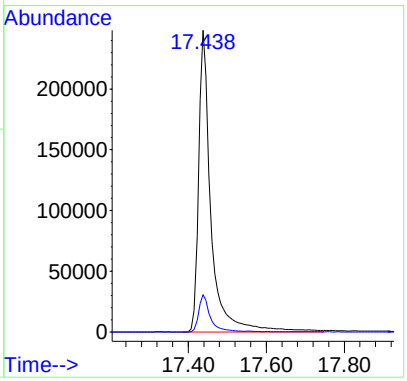


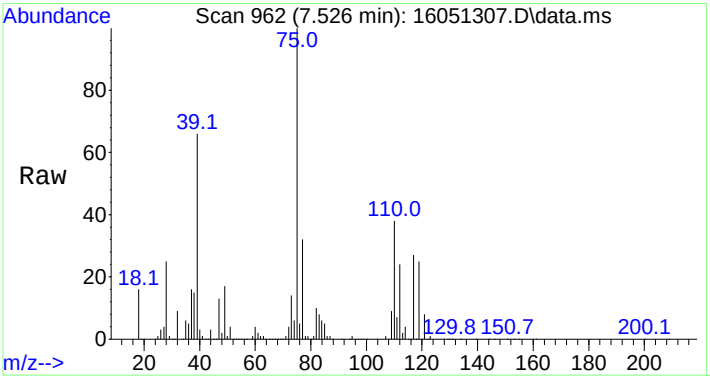


#59
Naphthalene
Concen: 148.11 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:128 Resp: 549907

Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.8

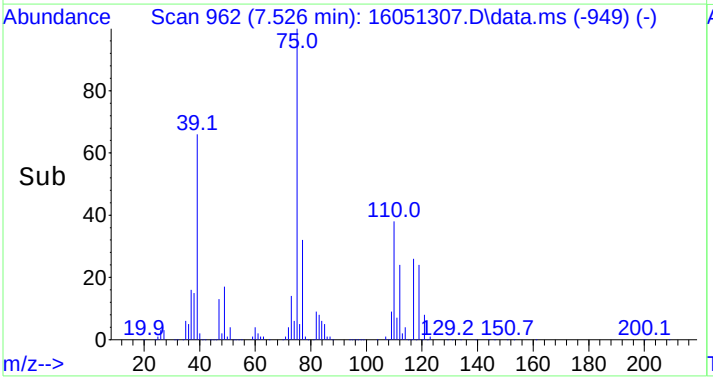


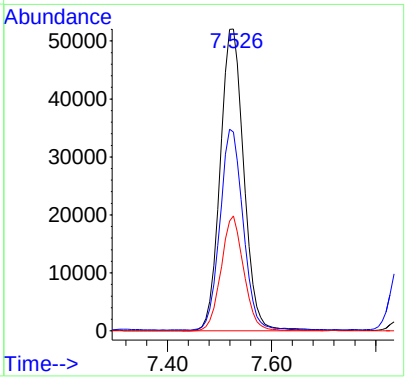


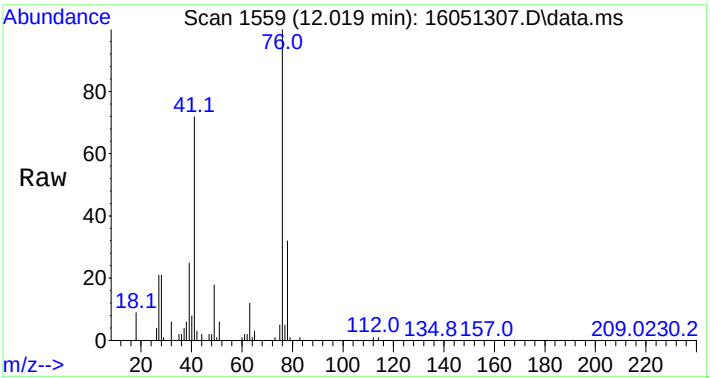
#60
1,1-Dichloropropene
Concen: 158.67 ng
RT: 7.526 min Scan# 962
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 75 Resp: 164016

Ion	Ratio	Lower	Upper
75	100		
39	65.6	51.7	77.5
110	36.4	29.3	43.9



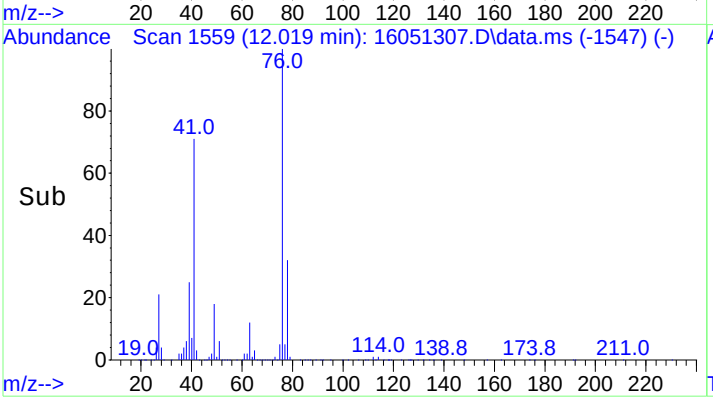


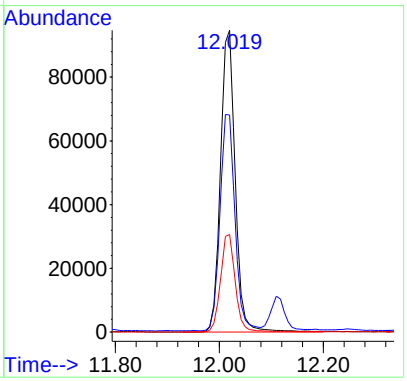


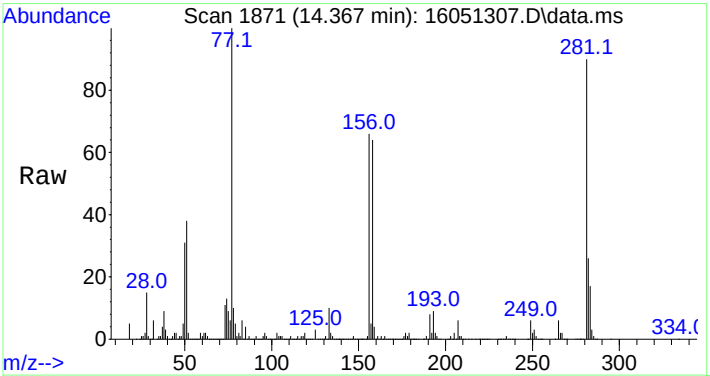
#61
1,3-Dichloropropane
Concen: 161.15 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.008 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 76 Resp: 185790

Ion	Ratio	Lower	Upper
76	100		
41	73.1	58.2	87.4
78	32.3	26.1	39.1



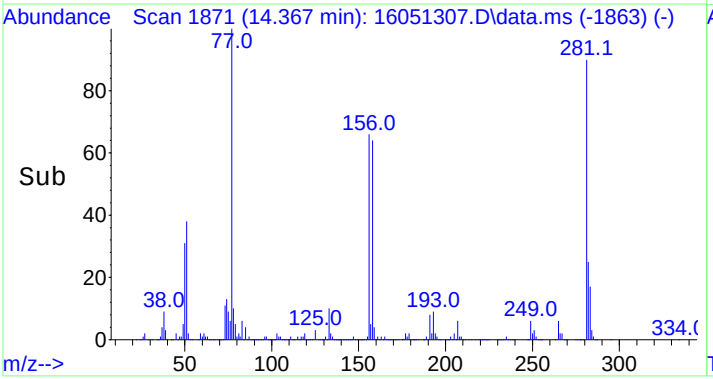


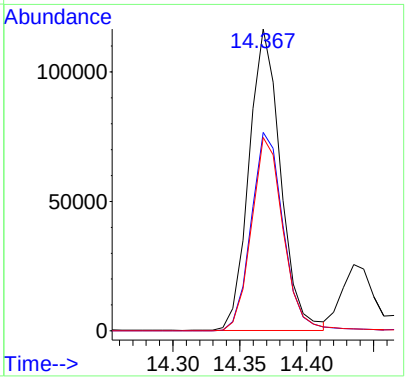


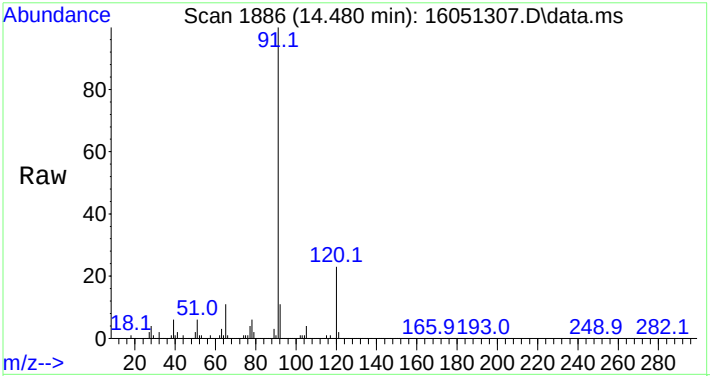
#62
Bromobenzene
Concen: 143.20 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 77 Resp: 191344

Ion	Ratio	Lower	Upper
77	100		
156	67.9	55.0	82.4
158	65.5	53.3	79.9



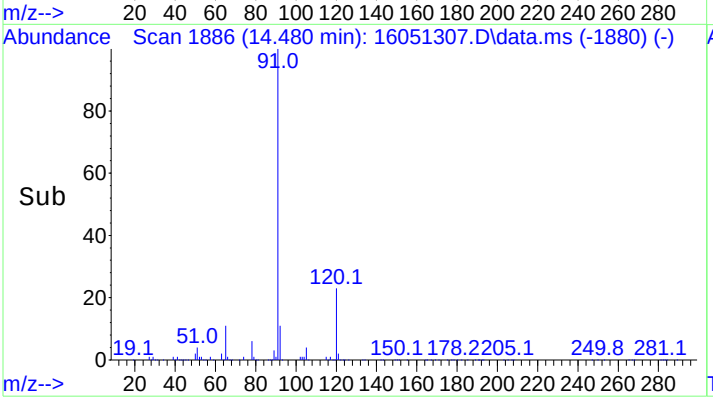


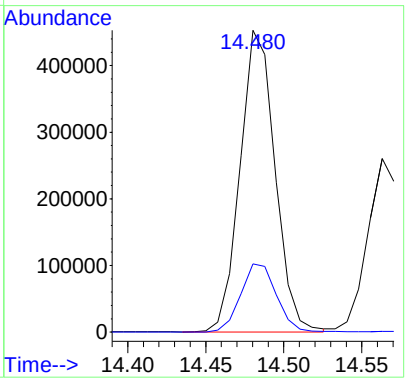


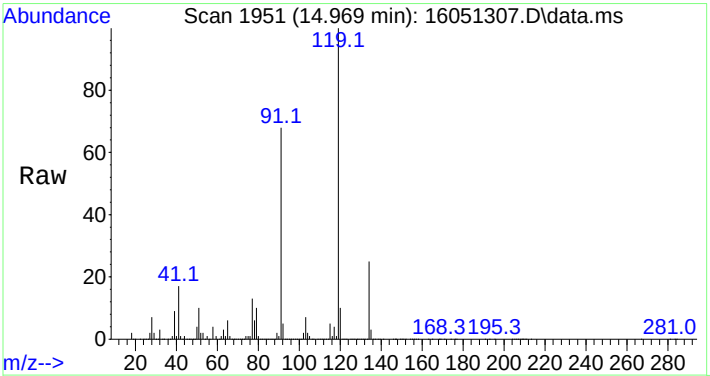
#63
n-Propylbenzene
Concen: 148.37 ng
RT: 14.480 min Scan# 1886
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 704980

Ion	Ratio	Lower	Upper
91	100		
120	23.2	18.6	28.0



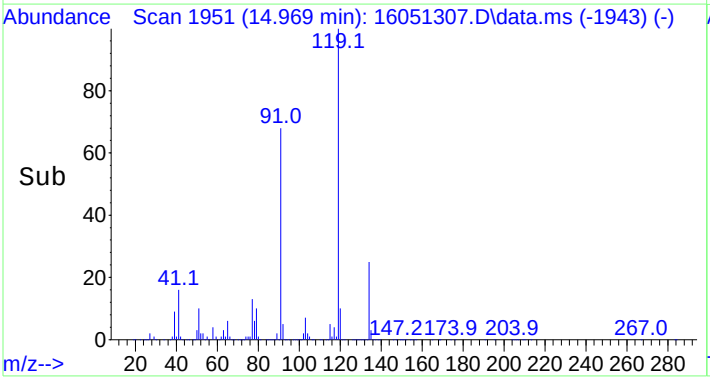


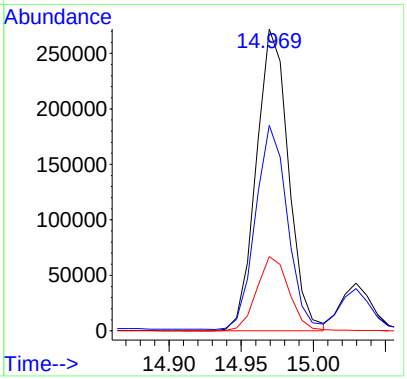


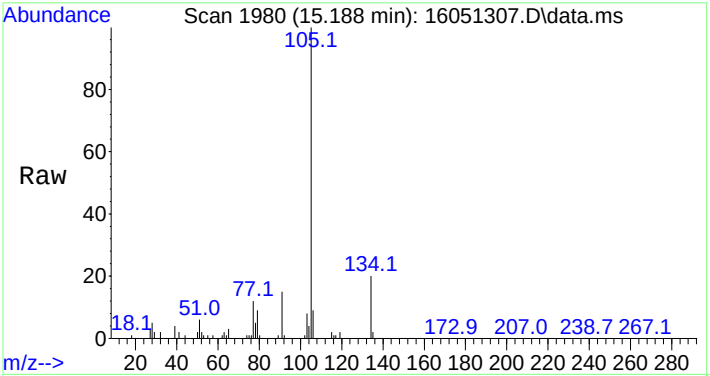
#64
tert-Butylbenzene
Concen: 148.58 ng
RT: 14.969 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:119 Resp: 422625

Ion	Ratio	Lower	Upper
119	100		
91	66.8	54.0	81.0
134	24.7	19.9	29.9



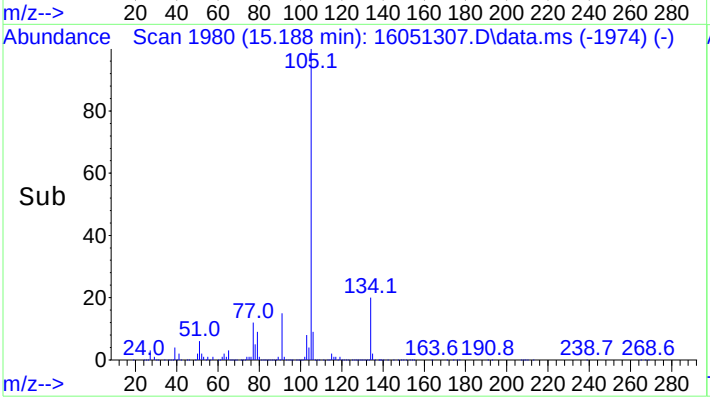


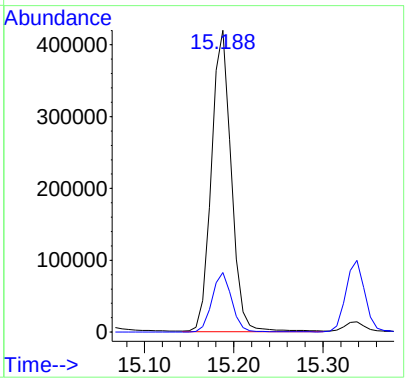


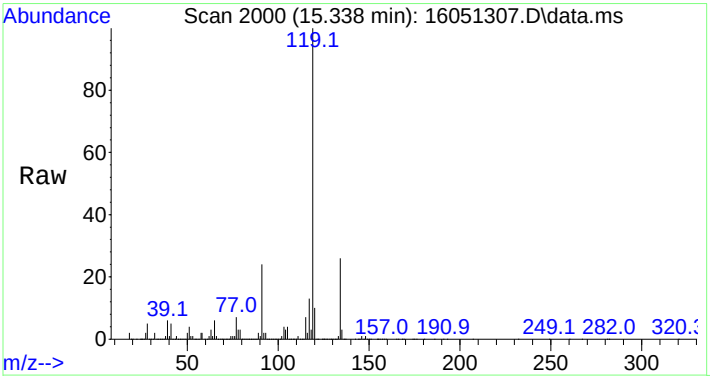
#65
sec-Butylbenzene
Concen: 147.99 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:105 Resp: 648681

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5



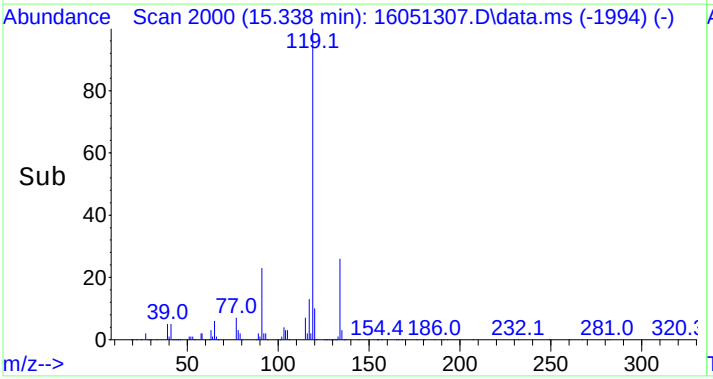


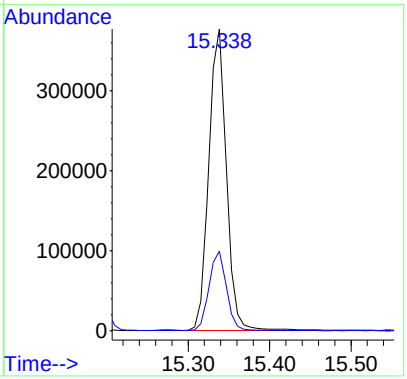


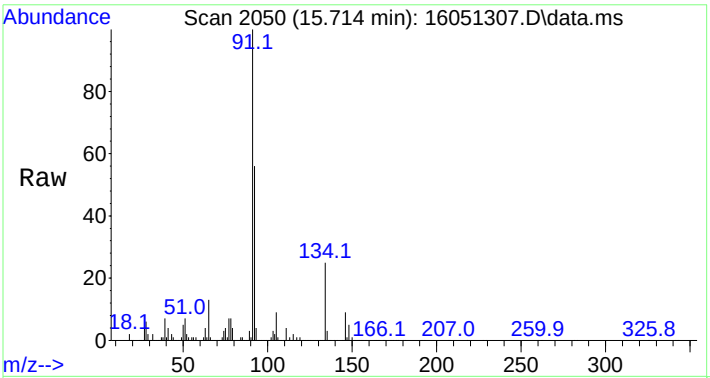
#66
p-Isopropyltoluene
Concen: 146.44 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:119 Resp: 565884

Ion	Ratio	Lower	Upper
119	100		
134	26.4	20.6	31.0



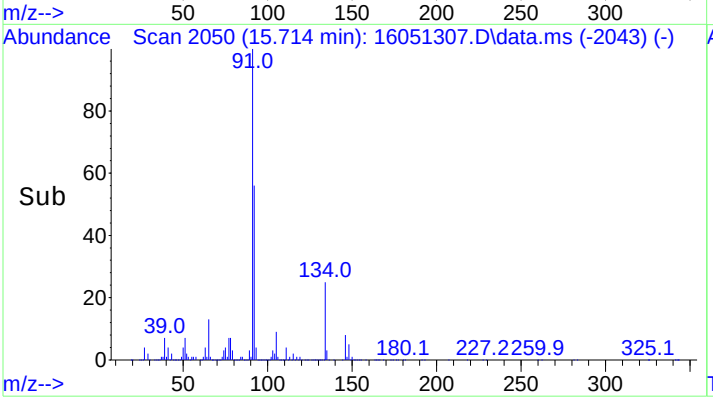


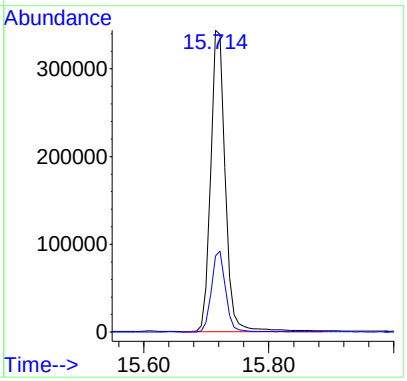


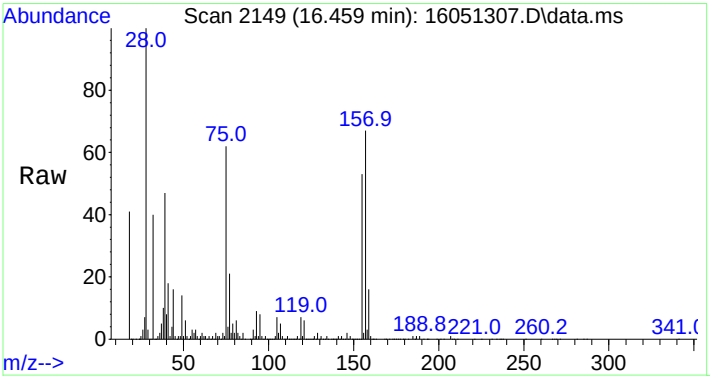
#67
n-Butylbenzene
Concen: 149.56 ng
RT: 15.714 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion: 91 Resp: 558724

Ion	Ratio	Lower	Upper
91	100		
134	26.1	21.0	31.6



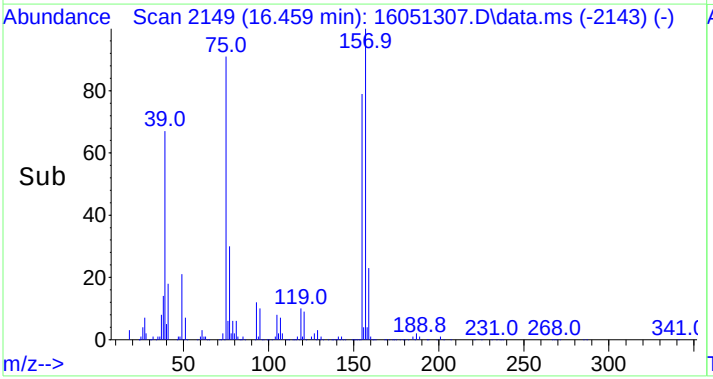


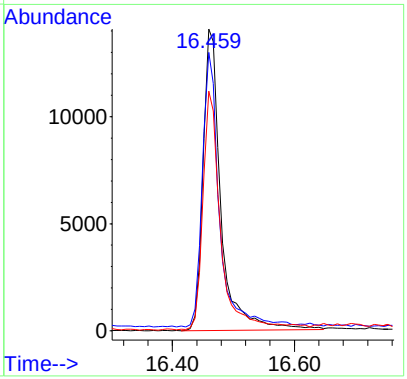


#68
1,2-Dibromo-3-chloropropane
Concen: 122.67 ng m
RT: 16.459 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 16051307.D
Acq: 13 May 2016 2:29 pm

Tgt Ion:157 Resp: 28823

Ion	Ratio	Lower	Upper
157	100		
75	89.0	68.6	103.0
155	80.3	62.2	93.2





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513\
Data File : 16051308.D
Acq On : 13 May 2016 3:08 pm
Operator : SG Instrument MSD-3
Sample : 250NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:44:17 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:42:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.751	130	96026	250.00	ng	0.00
20) 1,4-Difluorobenzene	8.685	114	450853	250.00	ng	0.00
32) d5-Chlorobenzene	12.953	117	317433	250.00	ng	0.00
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.843	65	129570	212.17	ng	0.00
Spiked Amount 250.000			Recovery = 84.87%			
48) d10-Ethylbenzene(SPK)	13.020	98	464818	213.03	ng	0.00
Spiked Amount 200.000			Recovery = 106.52%			
49) d8-Toluene(SURR)	11.101	98	463837	246.65	ng	0.00
Spiked Amount 250.000			Recovery = 98.66%			
50) 4-Bromofluorobenzene(S...	14.239	95	158876	254.10	ng	0.00
Spiked Amount 250.000			Recovery = 101.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.724	85	141834	222.64	ng	100
3) Chloromethane	1.905	50	189854	251.29	ng	100
4) Vinyl Chloride	2.018	62	220555	242.89	ng	100
5) Bromomethane	2.371	94	91523	226.78	ng	100
6) Chloroethane	2.477	64	117684	248.92	ng	100
7) Trichlorofluoromethane	2.755	101	343270	253.44	ng	100
8) 1,1-Dichloroethene	3.372	61	417695	255.87	ng	100
9) Acetone	3.417	43	139243	229.19	ng	100
10) Iodomethane	3.560	142	214082	330.64	ng	100
11) Carbon disulfide	3.651	76	625399	244.73	ng	100
12) Methylene Chloride	4.072	49	269588	238.64	ng	100
13) trans,1,2-Dichloroethene	4.509	61	263184	242.88	ng	100
14) 1,1-Dichloroethane	5.284	63	356930	265.58	ng	100
15) Vinyl Acetate	5.329	43	145935	213.11	ng	100
16) cis,1,2-Dichloroethene	6.330	61	321362	255.89	ng	100
17) 2-Butanone	6.330	43	80037	184.25	ng	100
18) Chloroform	6.977	83	293674	232.93	ng	100
19) 1,1,1-Trichloroethane	7.225	97	149324	207.12	ng	100
22) Carbon Tetrachloride	7.489	117	205944	239.10	ng	100
23) Benzene	7.858	78	729923	223.63	ng	100
24) 1,2-Dichloroethane	7.986	62	193918	207.54	ng	100
25) Trichloroethene	9.062	95	172206	235.34	ng	100
26) 1,2-Dichloropropane	9.521	63	174919	233.80	ng	100
27) Dibromomethane	9.656	93	90324	215.54	ng	100
28) Bromodichloromethane	10.010	83	187556	230.23	ng	100
29) cis,1,3-Dichloropropene	10.732	75	199114	238.58	ng	100
30) trans,1,3-Dichloropropene	11.568	75	131241	231.21	ng	100
31) 4-Methyl-2-Pentanone	10.973	43	221162	200.74	ng	100
33) Toluene	11.199	91	739128	234.75	ng	100
34) 1,1,2-Trichloroethane	11.824	83	120538	221.52	ng	100
35) Tetrachloroethene	11.884	166	197569	239.59	ng	100
36) 2-Hexanone	12.110	43	175023	216.68	ng	100
37) Chlorodibromomethane	12.275	129	166191	225.18	ng	100
38) Ethylene Dibromide	12.396	107	158122	234.71	ng	100
39) Chlorobenzene	12.983	112	472182	244.06	ng	100
40) 1,1,1,2-Tetrachloroethane	13.096	131	163531	238.16	ng	100
41) Ethylbenzene	13.111	91	884304	247.23	ng	100
42) M&P-Xylene	13.261	91	1520389	499.88	ng	100
43) O-Xylene	13.667	91	785622	249.16	ng	100
44) Styrene	13.698	104	636165	236.36	ng	100
45) Bromoform	13.878	173	133984	230.35	ng	100
46) 1,1,2,2-Tetrachloroethane	14.390	83	195211m	209.11	ng	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513\
Data File : 16051308.D
Acq On : 13 May 2016 3:08 pm
Operator :
Sample : 250NG-VOSTSTD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:44:17 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:42:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,2,3-Trichloropropane	14.435	75	161656m	209.89	ng	
51) Isopropylbenzene	14.059	105	907900	247.75	ng	100
52) 1,3,5-Trimethylbenzene	14.668	105	891620	249.66	ng	100
53) 1,2,4-Trimethylbenzene	15.030	105	870962	246.99	ng	100
54) 1,3-Dichlorobenzene	15.301	146	462162	251.13	ng	100
55) 1,4-Dichlorobenzene	15.398	146	486804	250.25	ng	100
56) 1,2-Dichlorobenzene	15.730	146	440051	252.81	ng	100
57) 1,2,4-Trichlorobenzene	17.197	180	370959	251.27	ng	100
58) Hexachlorobutadiene	17.317	225	192028	247.45	ng	100
59) Naphthalene	17.438	128	885021	244.23	ng	100
60) 1,1-Dichloropropene	7.519	75	234864	232.80	ng	100
61) 1,3-Dichloropropane	12.012	76	252001	223.96	ng	100
62) Bromobenzene	14.367	77	319277	244.82	ng	100
63) n-Propylbenzene	14.480	91	1155459	249.15	ng	100
64) tert-Butylbenzene	14.969	119	689974	248.53	ng	100
65) sec-Butylbenzene	15.188	105	1071021	250.35	ng	100
66) p-Isopropyltoluene	15.338	119	942778	249.97	ng	100
67) n-Butylbenzene	15.714	91	905024	248.21	ng	100
68) 1,2-Dibromo-3-chloropr...	16.459	157	53057	231.73	ng	100

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

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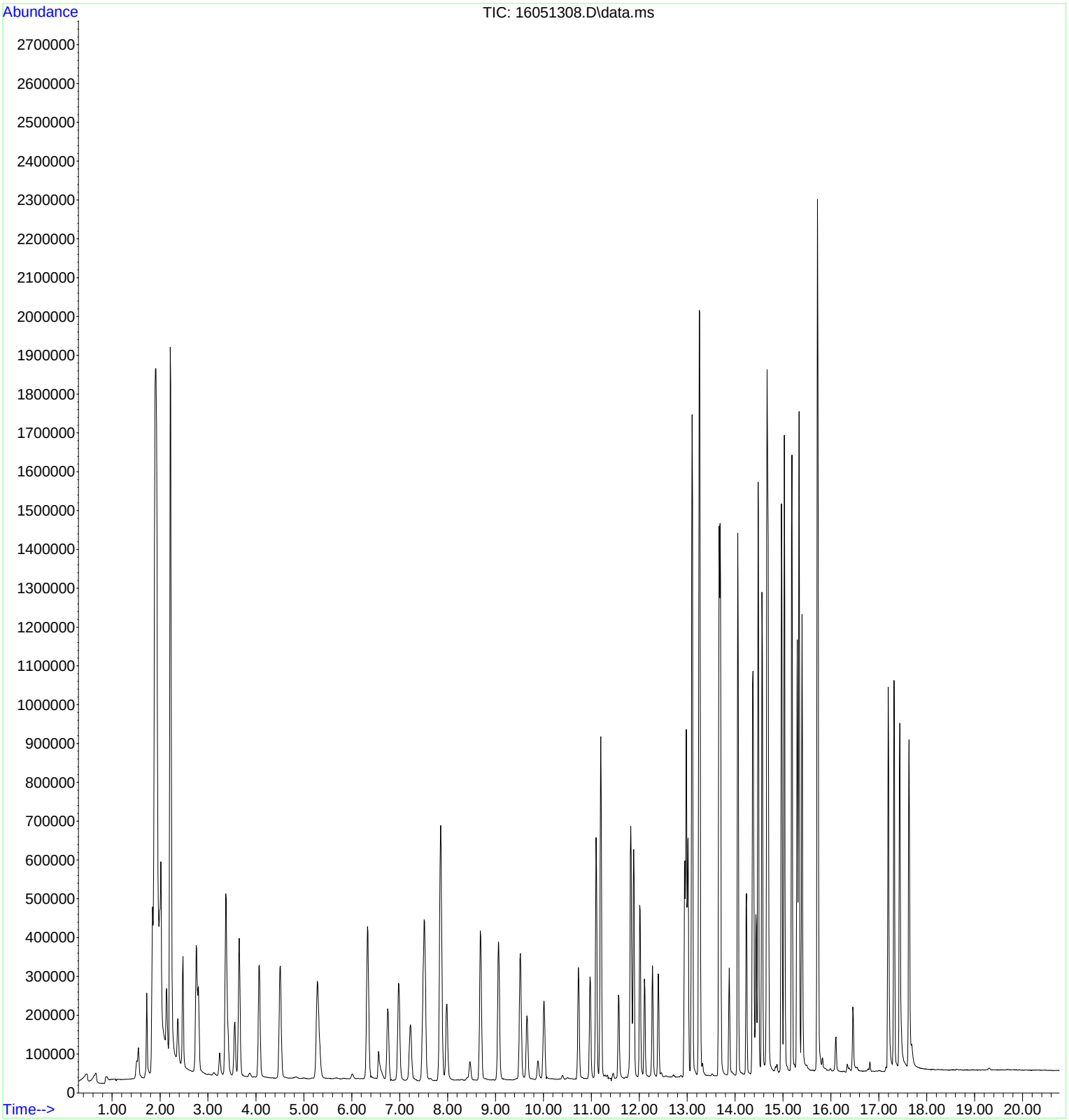
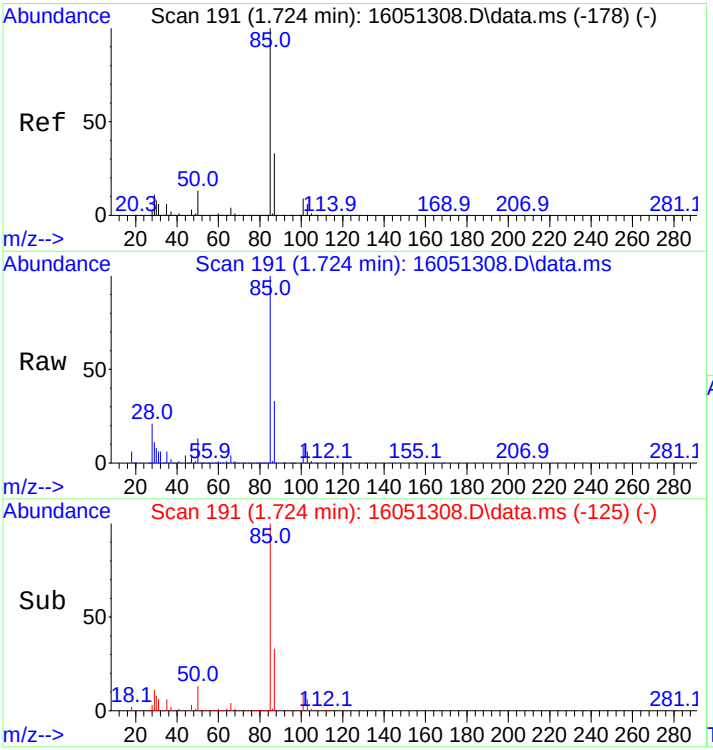
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051308.D
Acq On : 13 May 2016 3:08 pm
Operator : SG Instrument:MSD3
Sample : 250NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 13:10:04 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

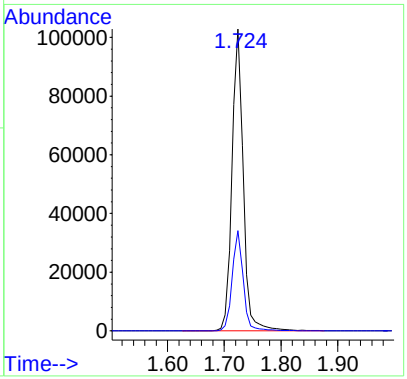


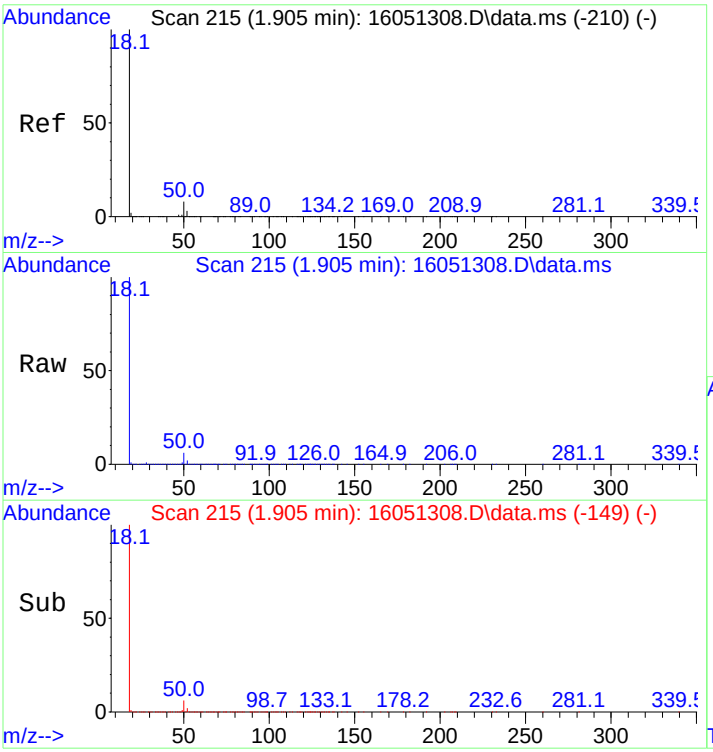


#2
Dichlorodifluoromethane
Concen: 222.64 ng
RT: 1.724 min Scan# 191
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 85 Resp: 141834

Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.0	39.0

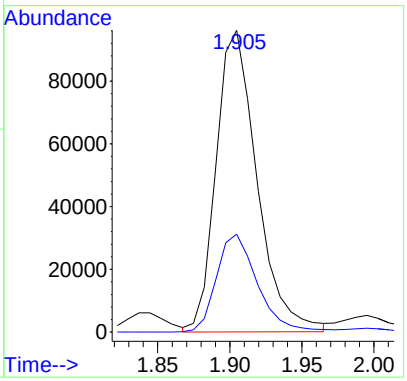


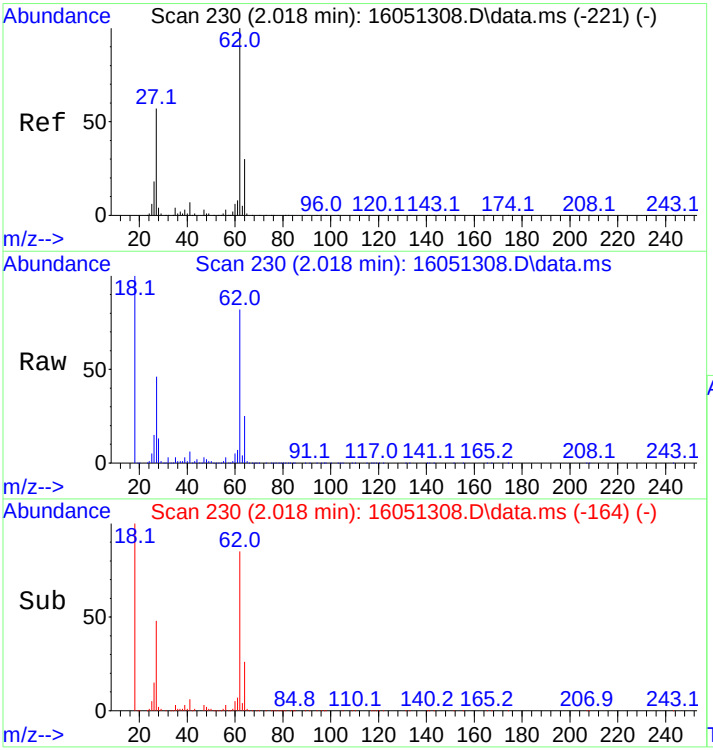


#3
Chloromethane
Concen: 251.29 ng
RT: 1.905 min Scan# 215
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 50 Resp: 189854

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

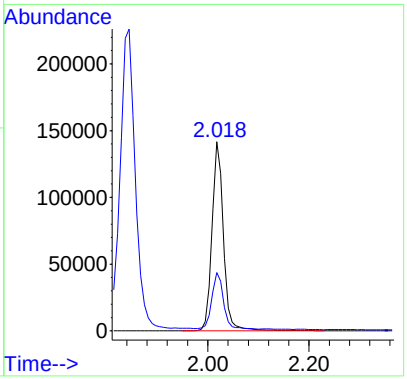


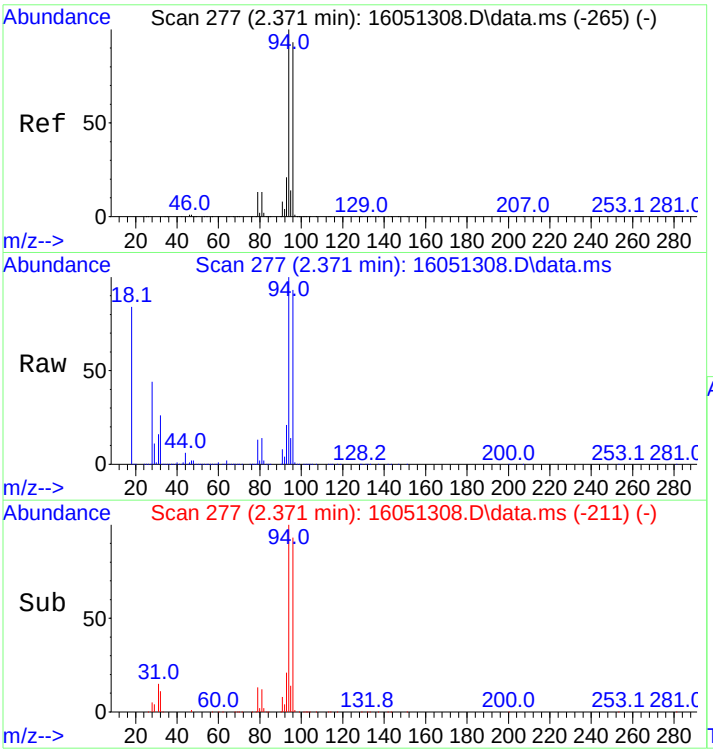


#4
Vinyl Chloride
Concen: 242.89 ng
RT: 2.018 min Scan# 230
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 62 Resp: 220555

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

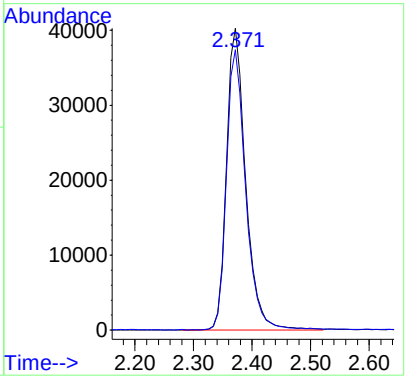


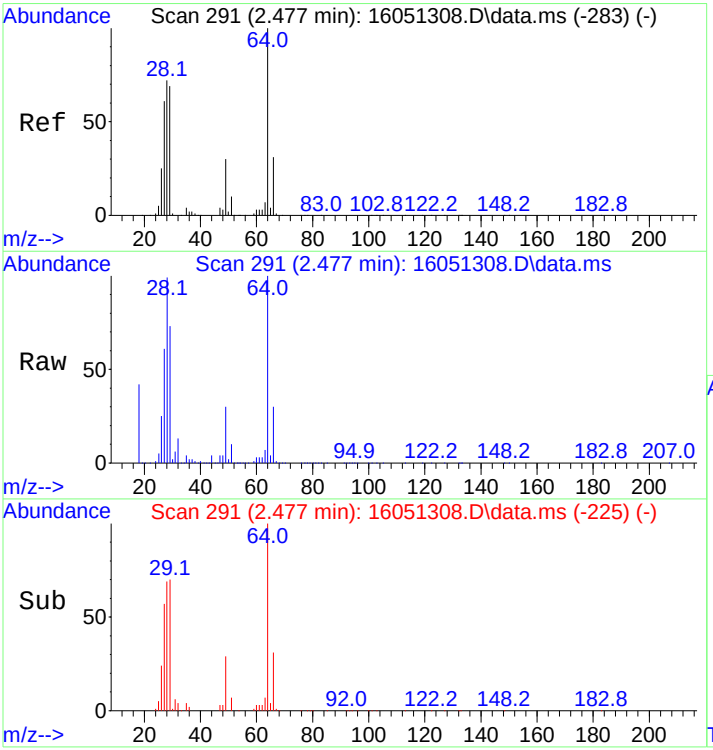


#5
Bromomethane
Concen: 226.78 ng
RT: 2.371 min Scan# 277
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 94 Resp: 91523

Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7

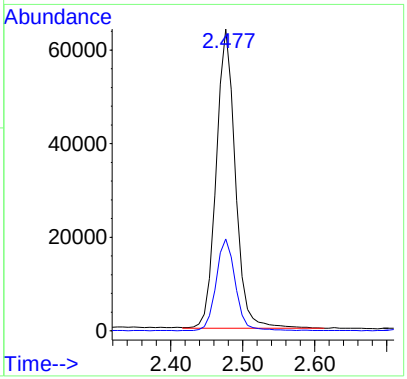


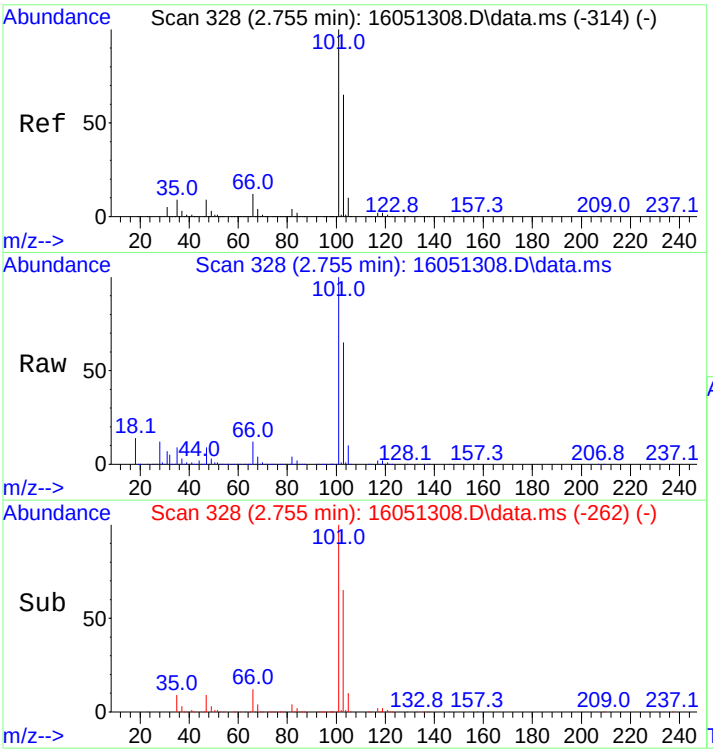


#6
Chloroethane
Concen: 248.92 ng
RT: 2.477 min Scan# 291
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 64 Resp: 117684

Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.0	37.4

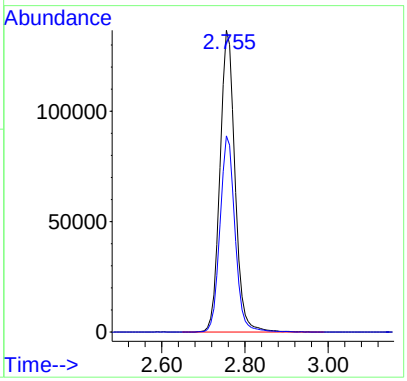


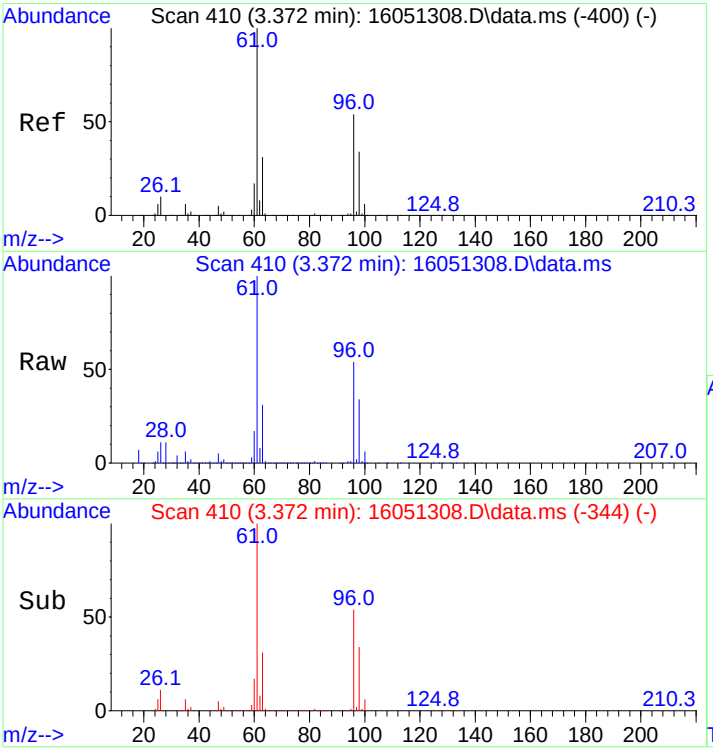


#7
Trichlorofluoromethane
Concen: 253.44 ng
RT: 2.755 min Scan# 328
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:101 Resp: 343270

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.8	77.6

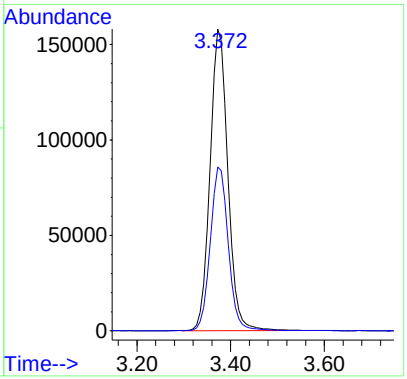


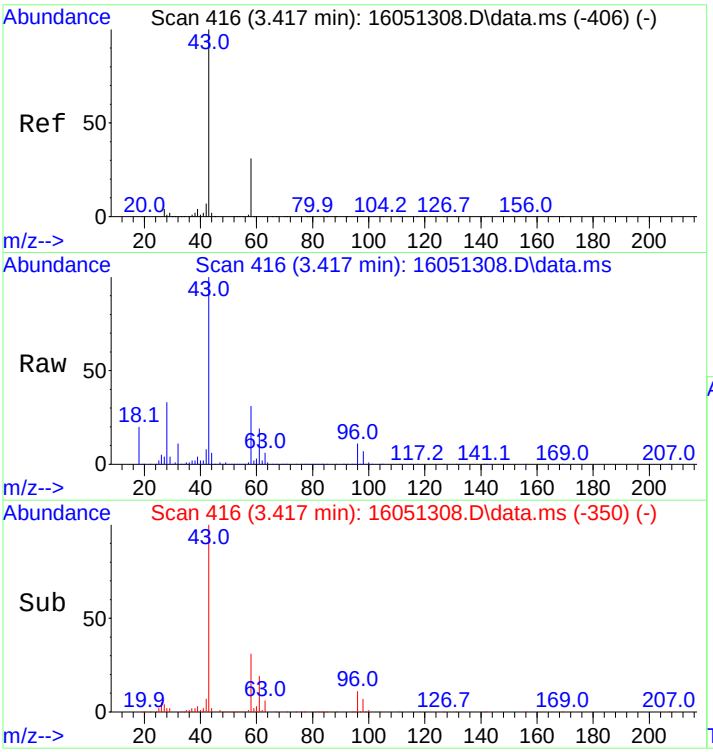


#8
1,1-Dichloroethene
Concen: 255.87 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 61 Resp: 417695

Ion	Ratio	Lower	Upper
61	100		
96	55.1	44.1	66.1

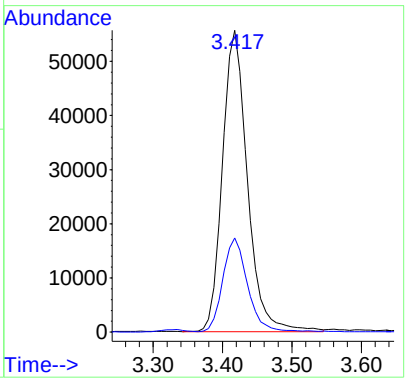


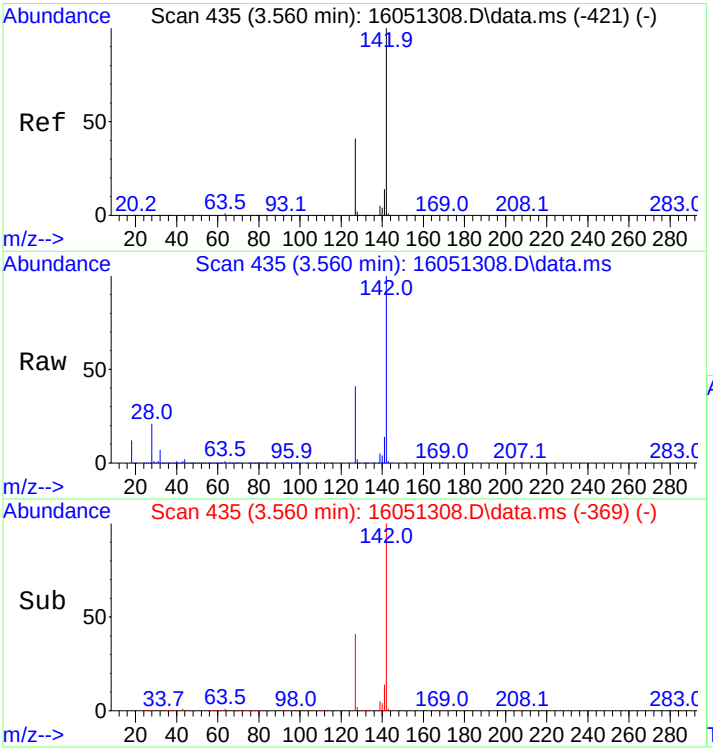


#9
Acetone
Concen: 229.19 ng
RT: 3.417 min Scan# 416
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 139243

Ion	Ratio	Lower	Upper
43	100		
58	30.9	24.7	37.1

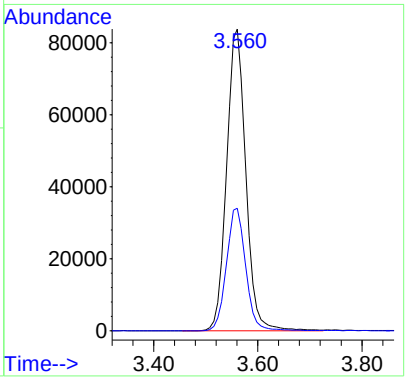


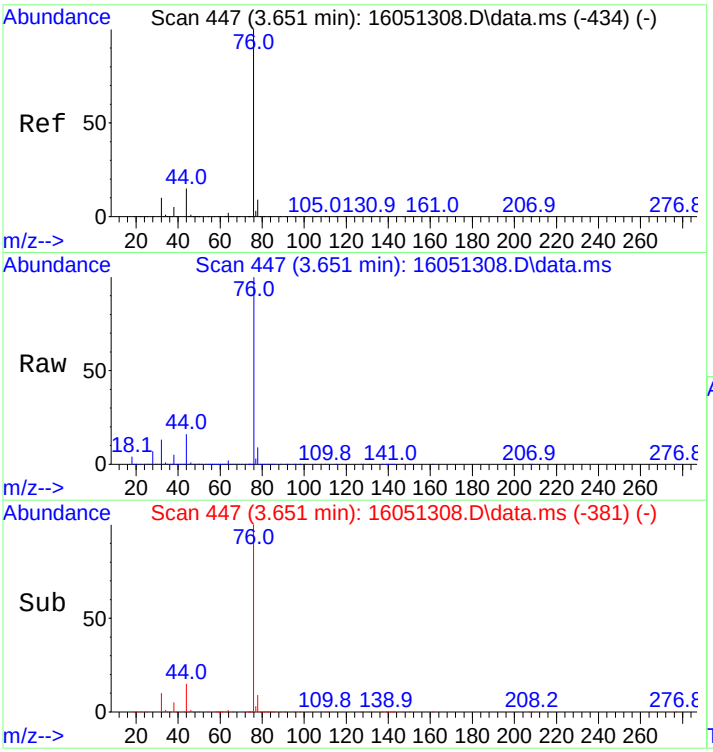


#10
Iodomethane
Concen: 330.64 ng
RT: 3.560 min Scan# 435
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:142 Resp: 214082

Ion	Ratio	Lower	Upper
142	100		
127	41.0	32.8	49.2

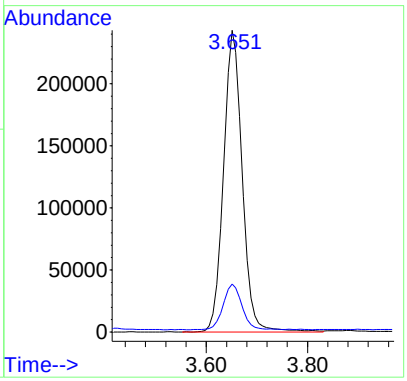


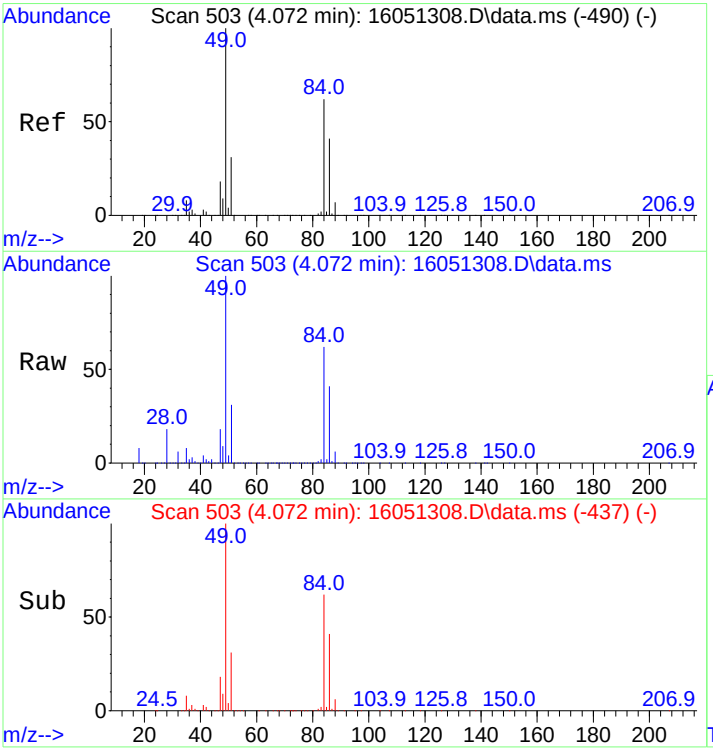


#11
Carbon disulfide
Concen: 244.73 ng
RT: 3.651 min Scan# 447
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 76 Resp: 625399

Ion	Ratio	Lower	Upper
76	100		
44	15.3	12.2	18.4

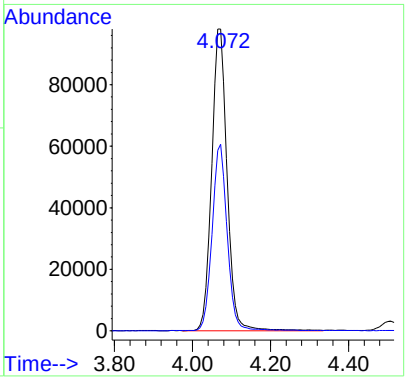


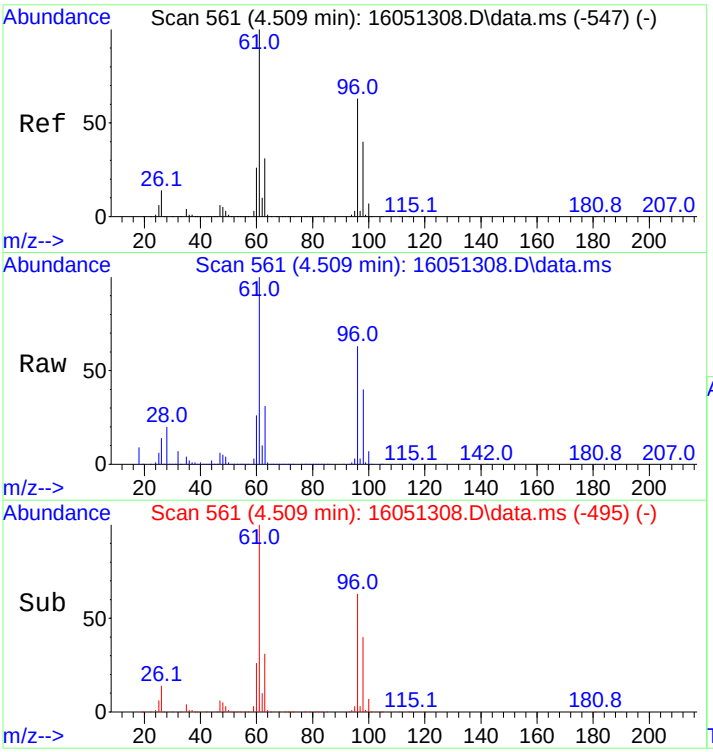


#12
Methylene Chloride
Concen: 238.64 ng
RT: 4.072 min Scan# 503
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 49 Resp: 269588

Ion	Ratio	Lower	Upper
49	100		
84	60.5	48.4	72.6

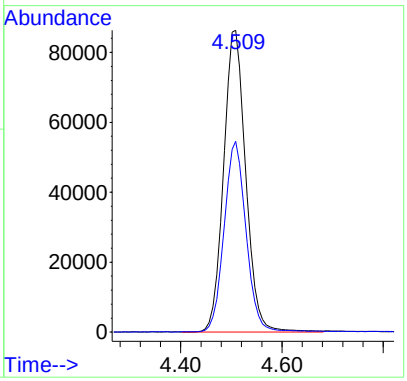


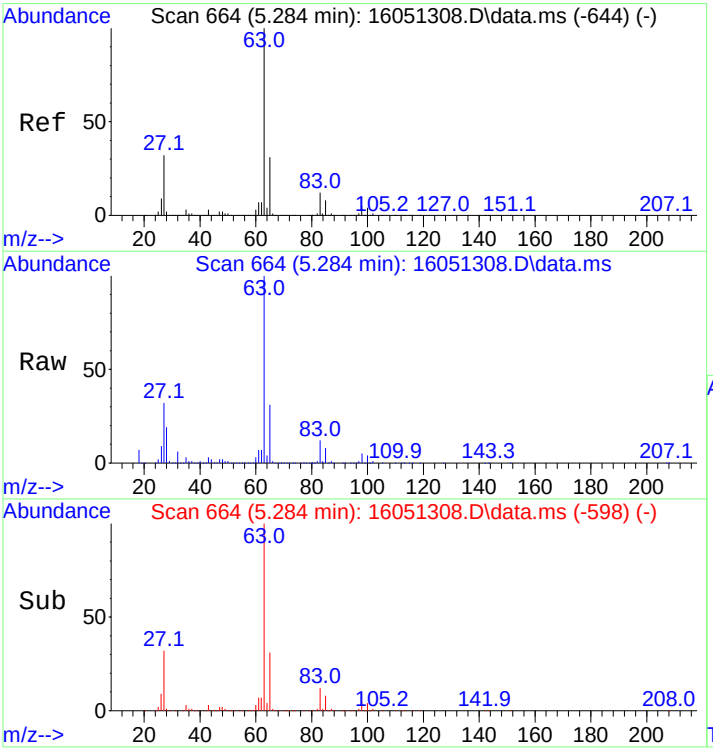


#13
trans,1,2-Dichloroethene
Concen: 242.88 ng
RT: 4.509 min Scan# 561
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 61 Resp: 263184

Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.2	75.4

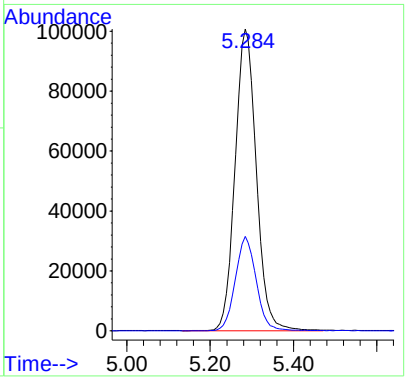


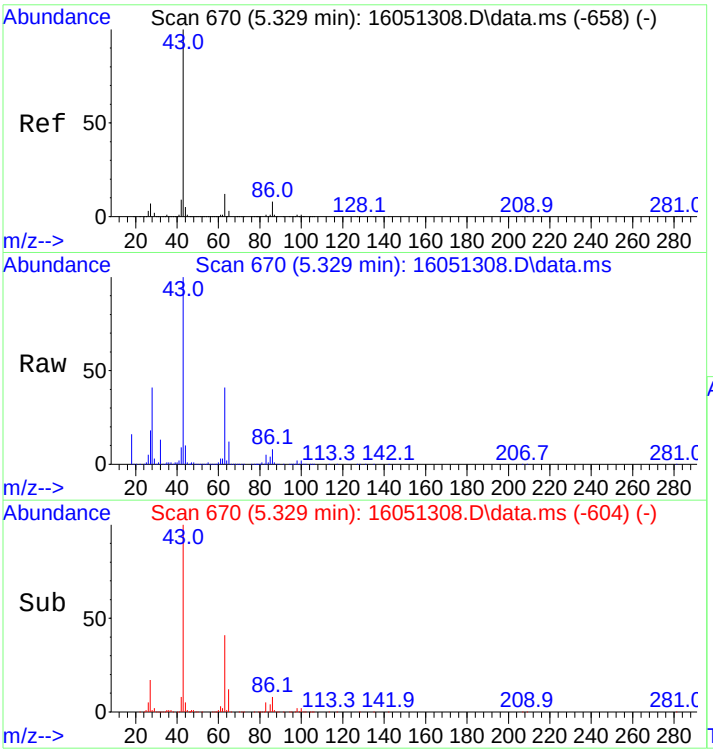


#14
1,1-Dichloroethane
Concen: 265.58 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 63 Resp: 356930

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0

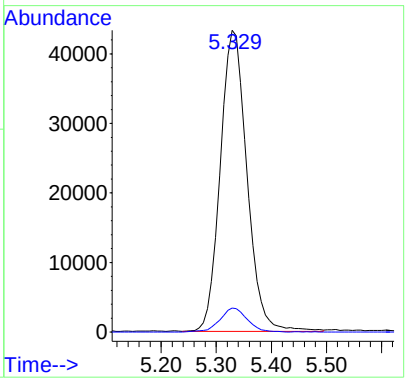


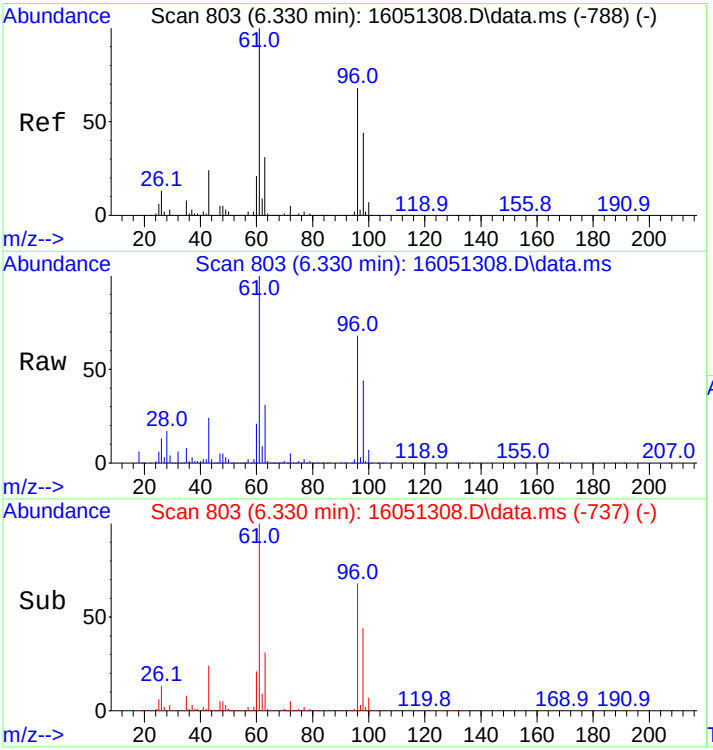


#15
Vinyl Acetate
Concen: 213.11 ng
RT: 5.329 min Scan# 670
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 145935

Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8

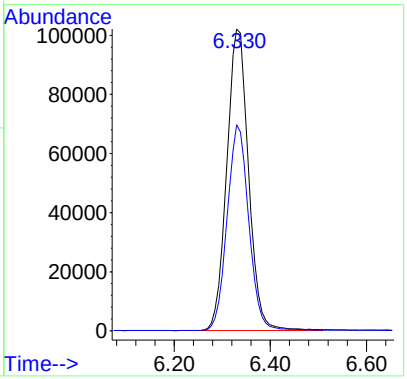


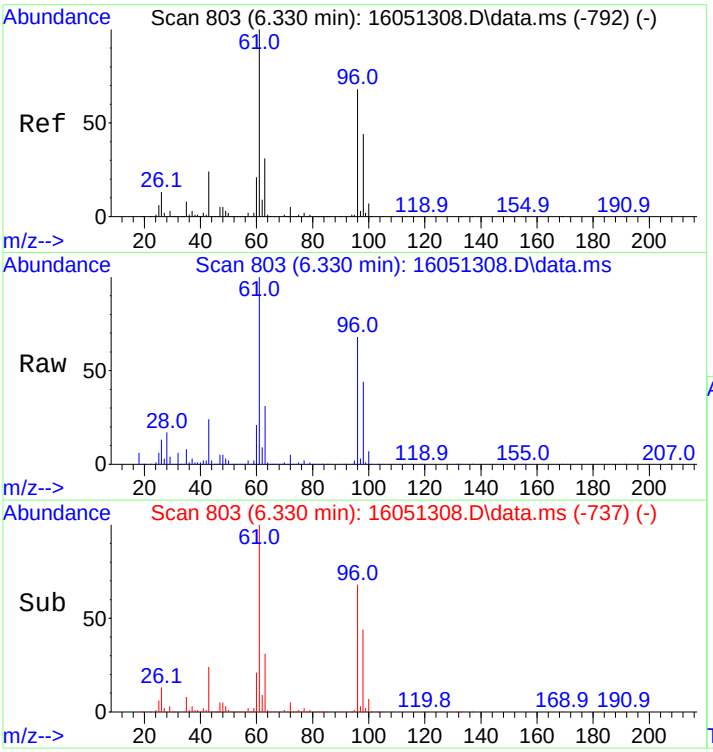


#16
cis,1,2-Dichloroethene
Concen: 255.89 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 61 Resp: 321362

Ion	Ratio	Lower	Upper
61	100		
96	68.2	54.6	81.8

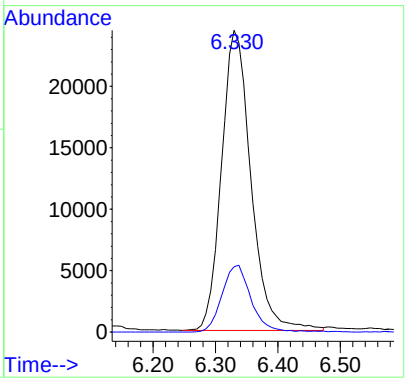


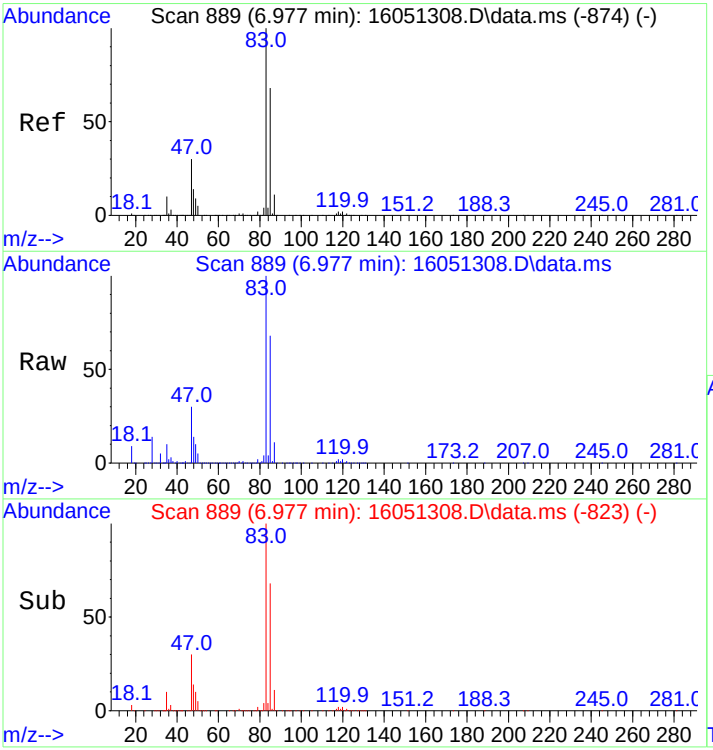


#17
2-Butanone
Concen: 184.25 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 80037

Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.4	26.2

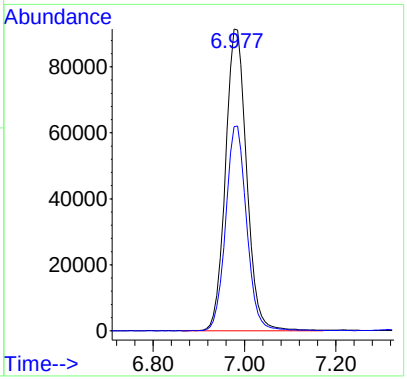


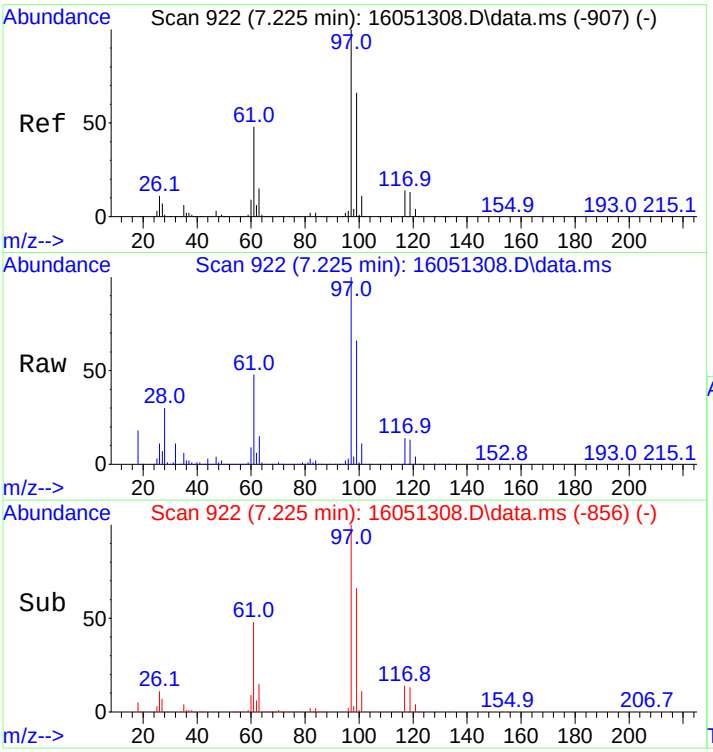


#18
Chloroform
Concen: 232.93 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 293674

Ion	Ratio	Lower	Upper
83	100		
85	67.4	53.9	80.9

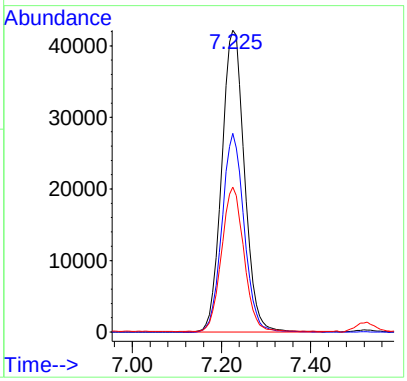


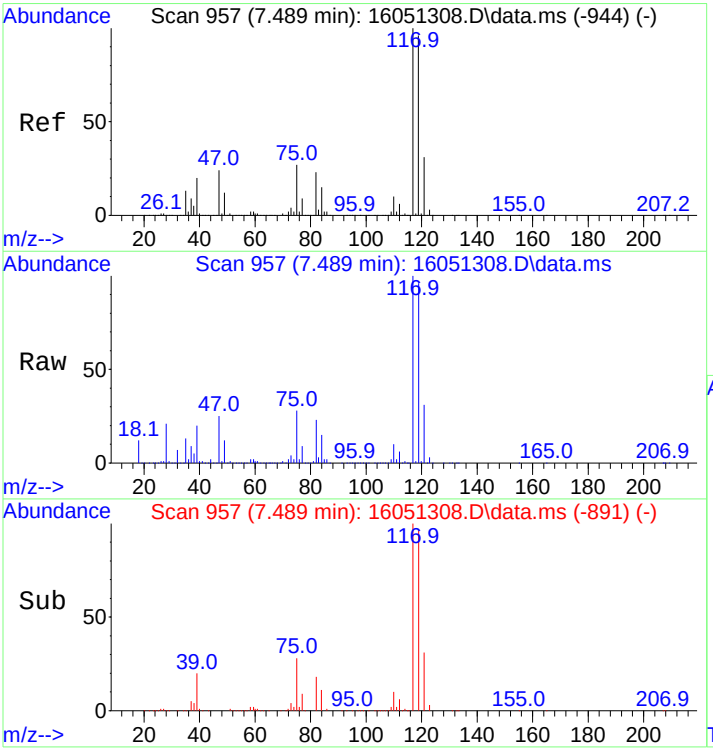


#19
1,1,1-Trichloroethane
Concen: 207.12 ng
RT: 7.225 min Scan# 922
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 97 Resp: 149324

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	47.0	37.6	56.4

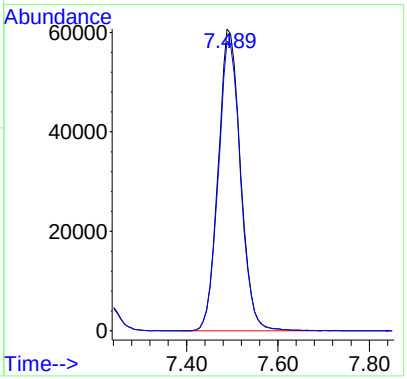


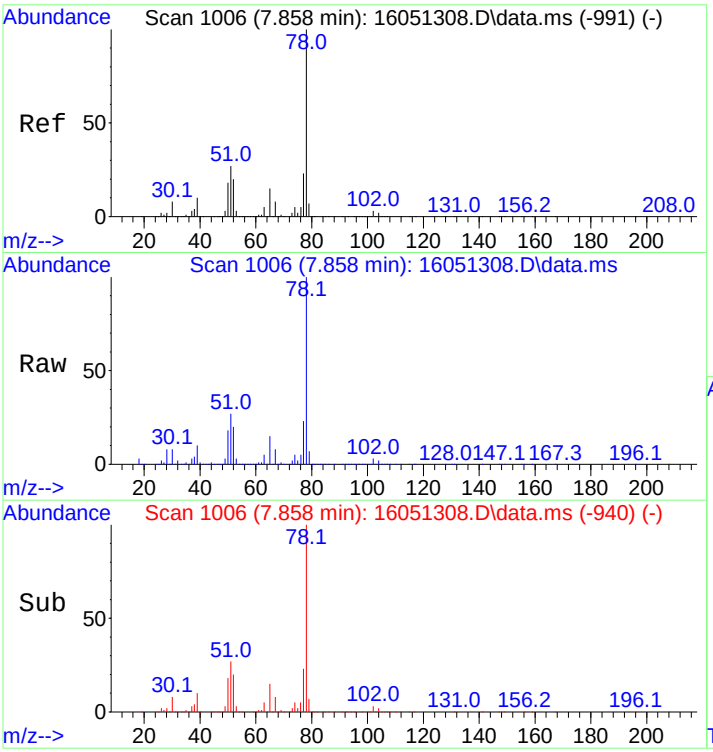


#22
Carbon Tetrachloride
Concen: 239.10 ng
RT: 7.489 min Scan# 957
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:117 Resp: 205944

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.0	115.4

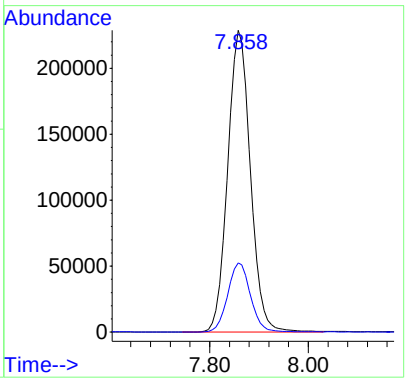


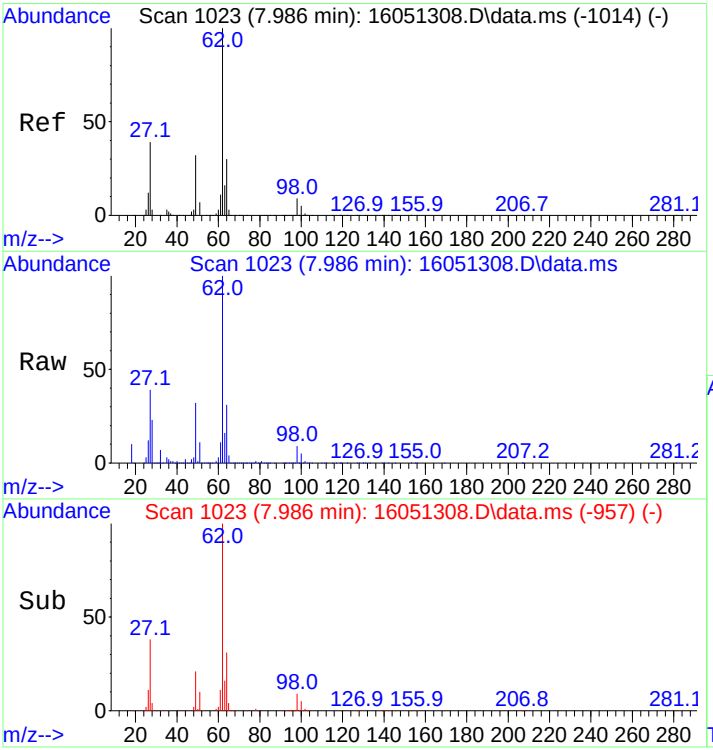


#23
Benzene
Concen: 223.63 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 78 Resp: 729923

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

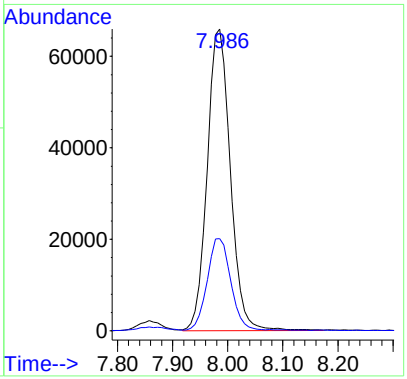


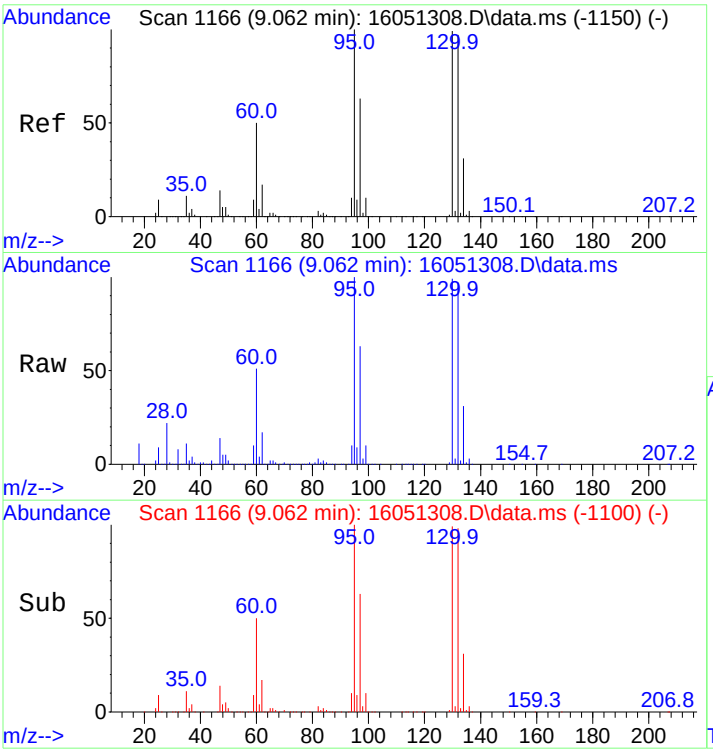


#24
1,2-Dichloroethane
Concen: 207.54 ng
RT: 7.986 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 62 Resp: 193918

Ion	Ratio	Lower	Upper
62	100		
64	31.0	24.8	37.2

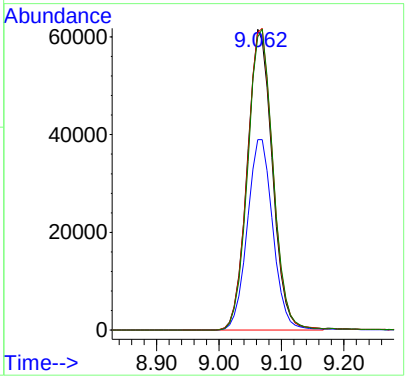


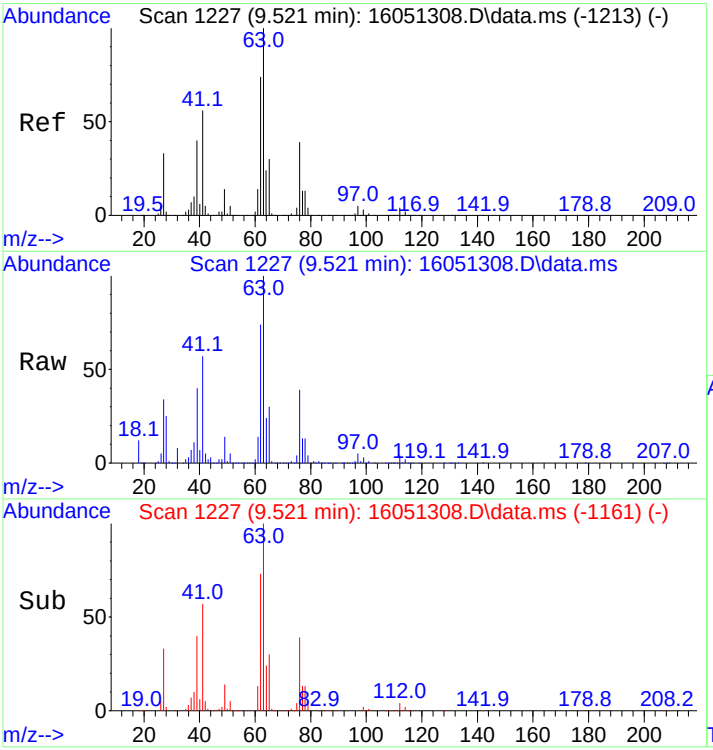


#25
Trichloroethene
Concen: 235.34 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 95 Resp: 172206

Ion	Ratio	Lower	Upper
95	100		
97	64.8	51.8	77.8
130	102.4	81.9	122.9
132	101.5	81.2	121.8

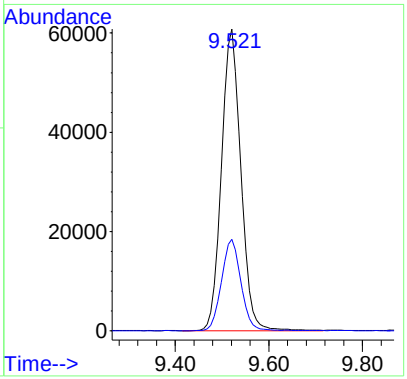


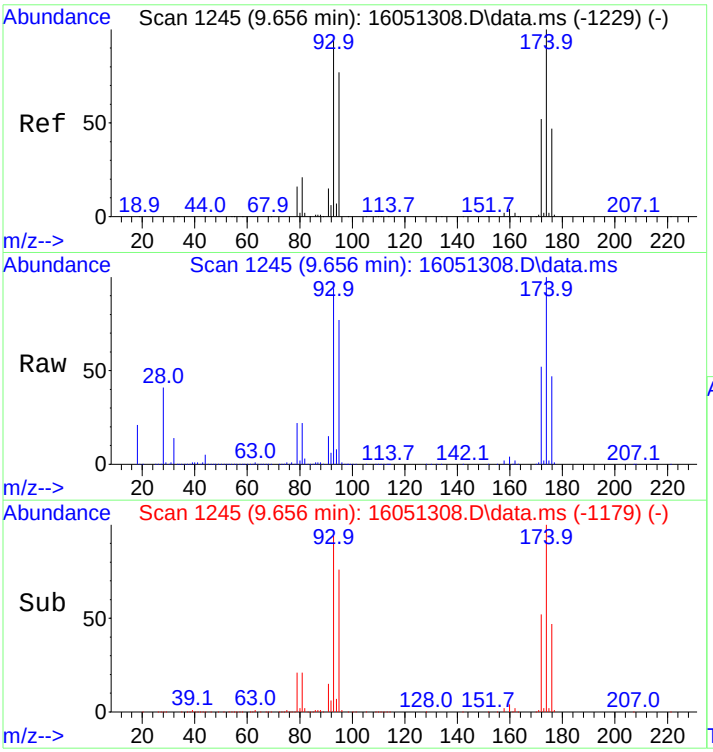


#26
1,2-Dichloropropane
Concen: 233.80 ng
RT: 9.521 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 63 Resp: 174919

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.2	36.2

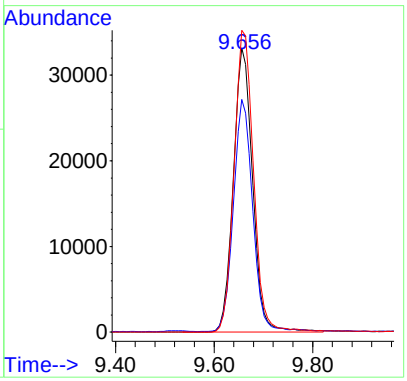


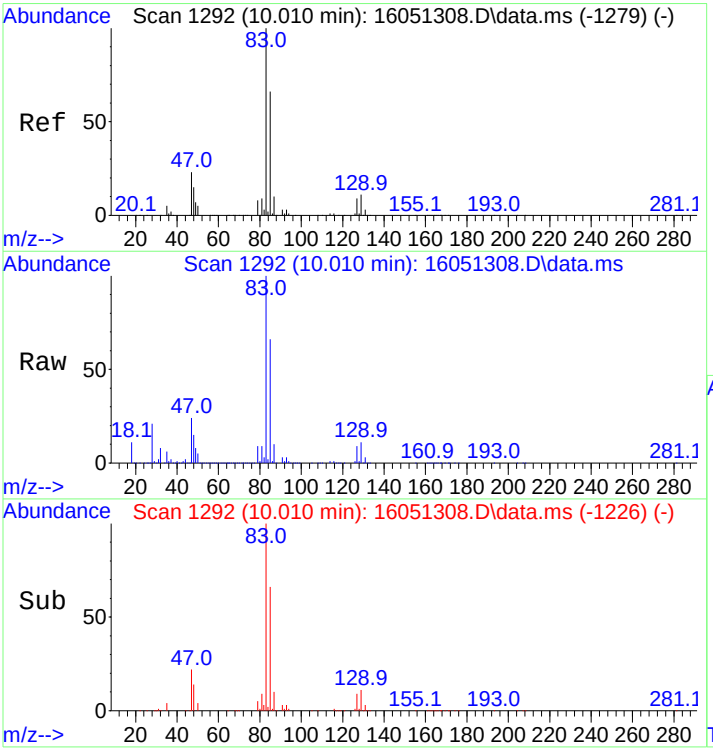


#27
Dibromomethane
Concen: 215.54 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 93 Resp: 90324

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	106.9	85.5	128.3

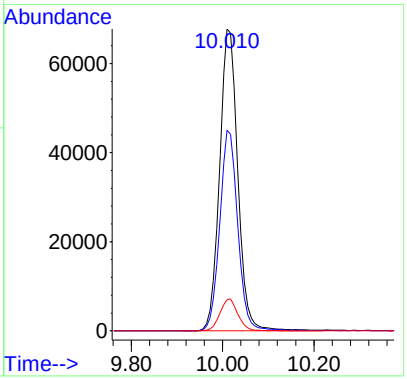


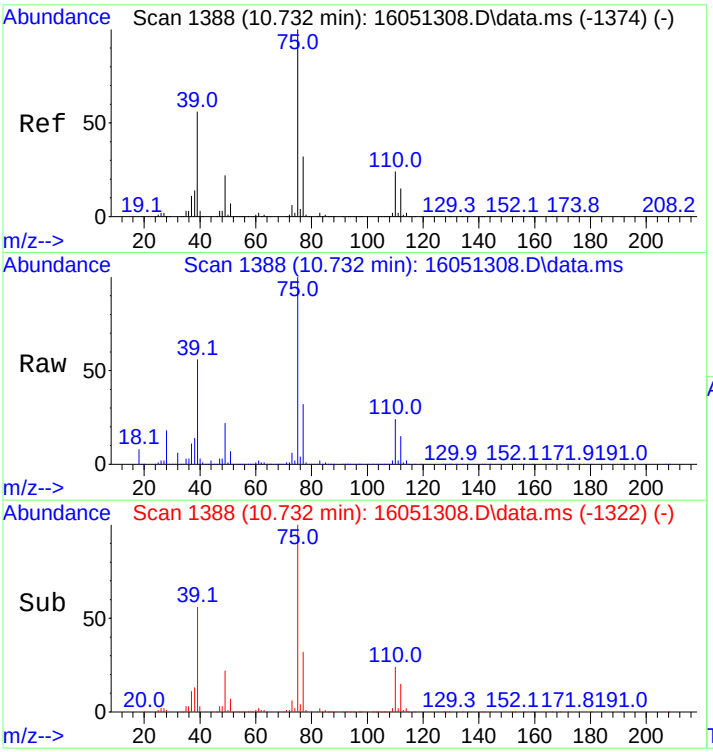


#28
Bromodichloromethane
Concen: 230.23 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 187556

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
87	10.4	8.3	12.5

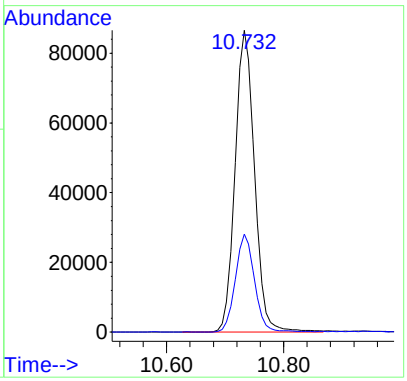


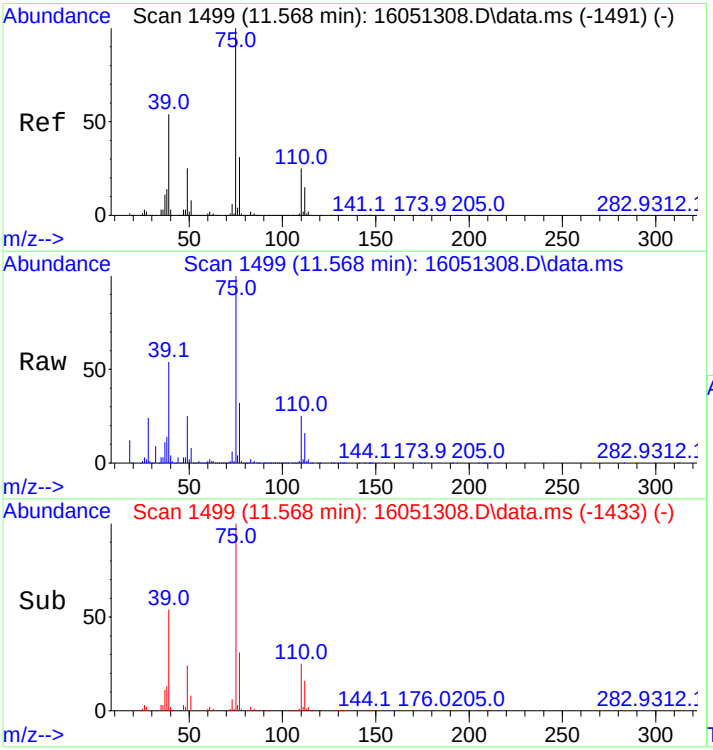


#29
cis,1,3-Dichloropropene
Concen: 238.58 ng
RT: 10.732 min Scan# 1388
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 199114

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.6	38.4

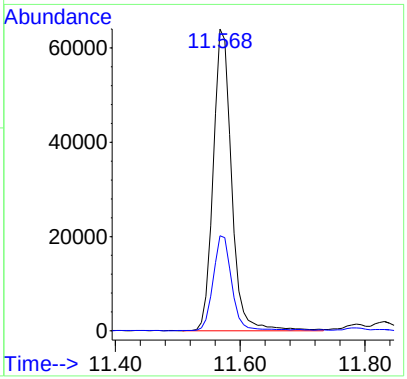


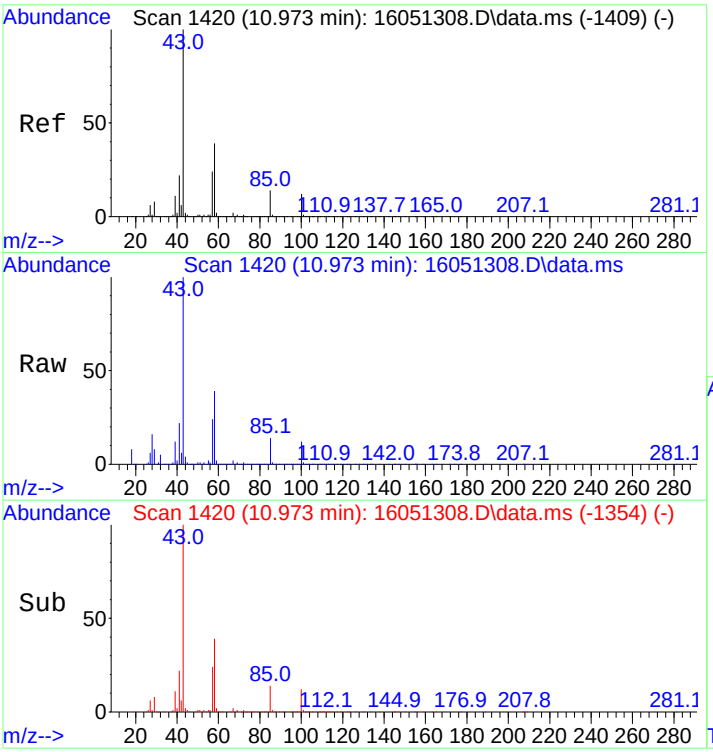


#30
trans,1,3-Dichloropropene
Concen: 231.21 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 131241

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0

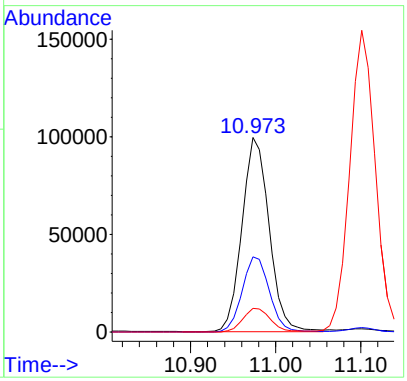


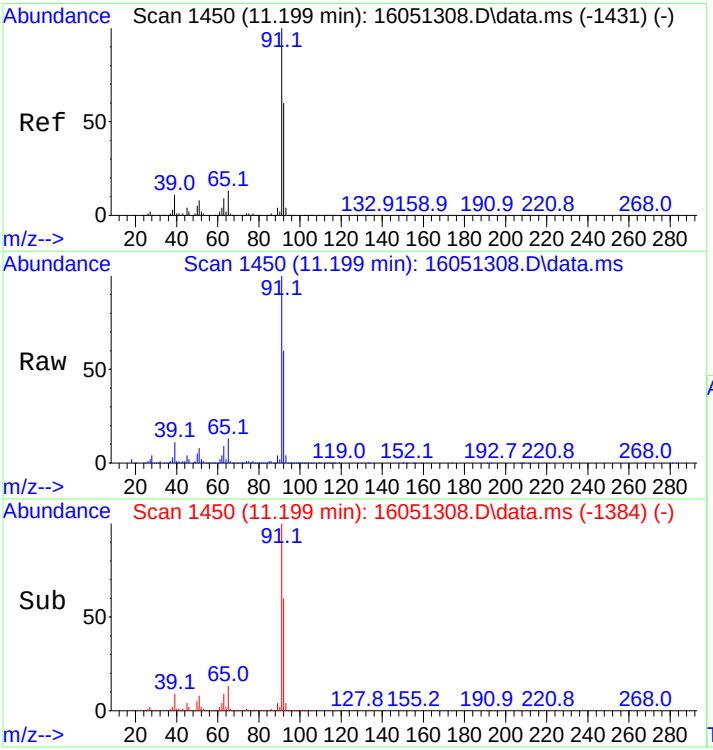


#31
4-Methyl-2-Pentanone
Concen: 200.74 ng
RT: 10.973 min Scan# 1420
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 221162

Ion	Ratio	Lower	Upper
43	100		
58	39.1	31.3	46.9
100	12.7	10.2	15.2

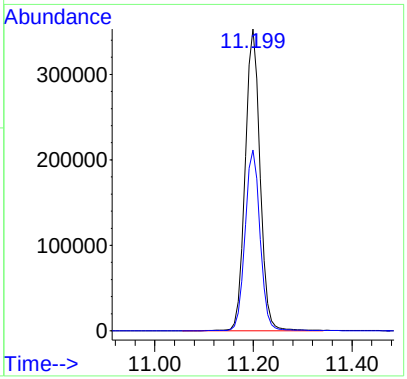


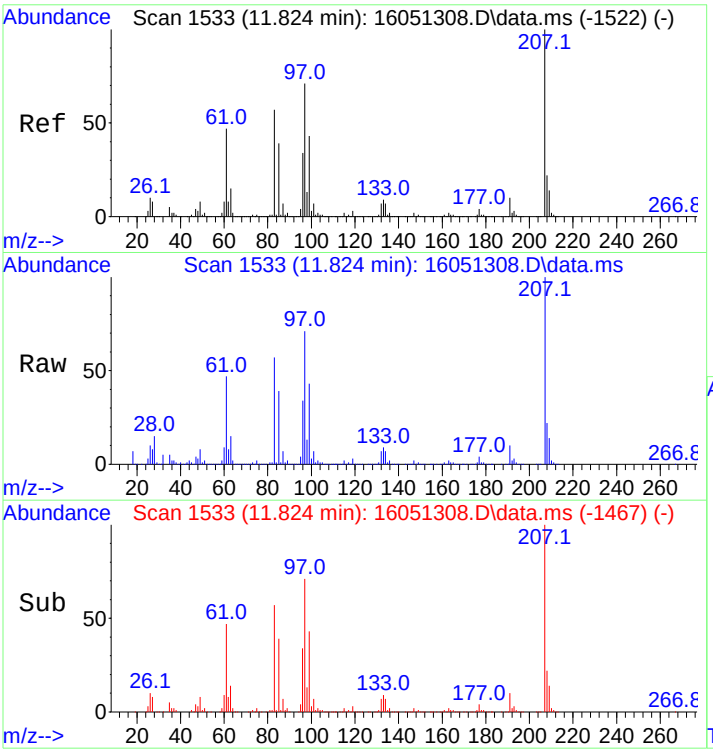


#33
Toluene
Concen: 234.75 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 739128

Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.6	73.0

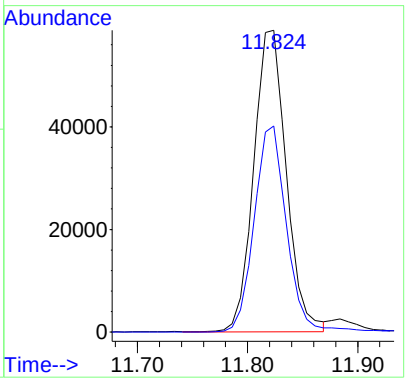


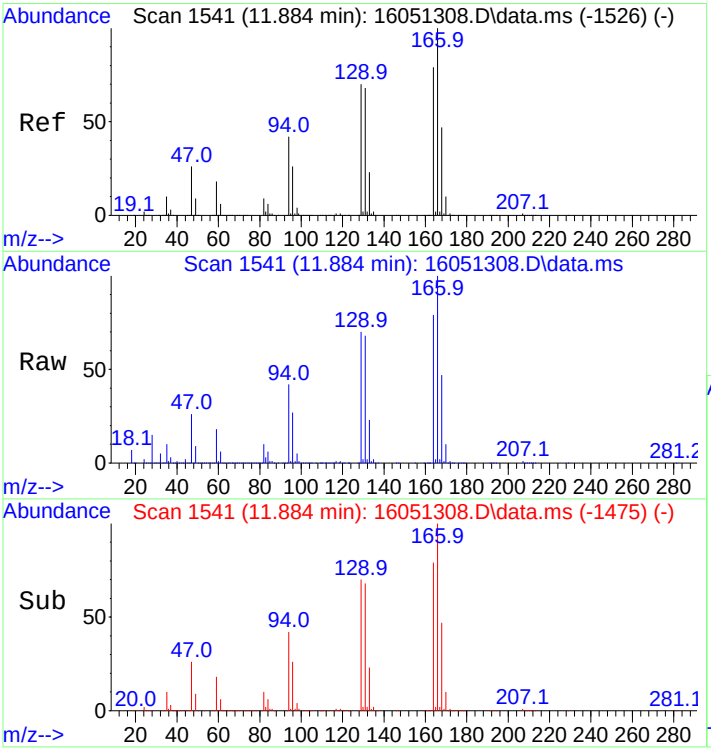


#34
1,1,2-Trichloroethane
Concen: 221.52 ng
RT: 11.824 min Scan# 1533
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 120538

Ion	Ratio	Lower	Upper
83	100		
85	68.4	54.7	82.1

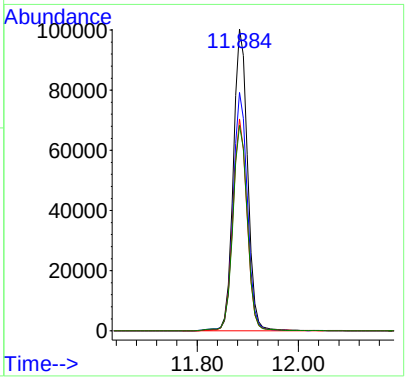


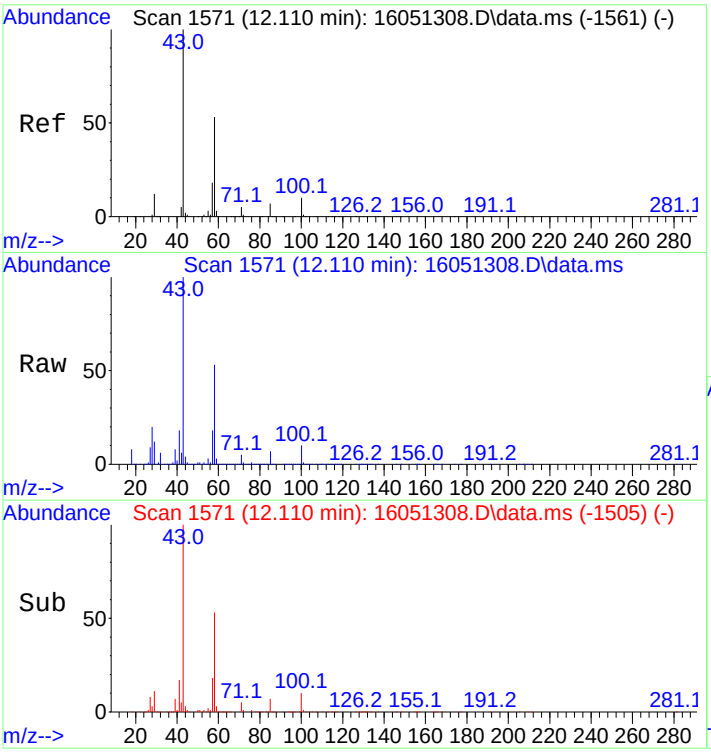


#35
Tetrachloroethene
Concen: 239.59 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:166 Resp: 197569

Ion	Ratio	Lower	Upper
166	100		
164	79.0	63.2	94.8
129	69.4	55.5	83.3
131	69.0	55.2	82.8

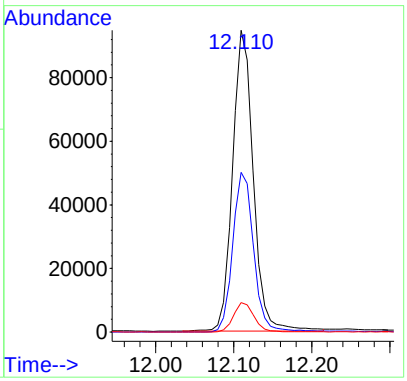


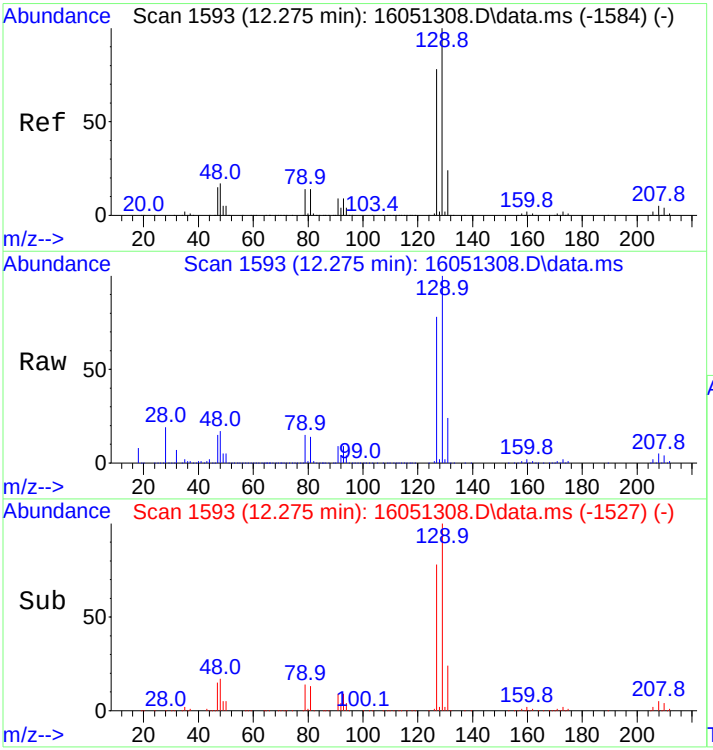


#36
2-Hexanone
Concen: 216.68 ng
RT: 12.110 min Scan# 1571
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 175023

Ion	Ratio	Lower	Upper
43	100		
58	54.5	43.6	65.4
100	9.8	7.8	11.8

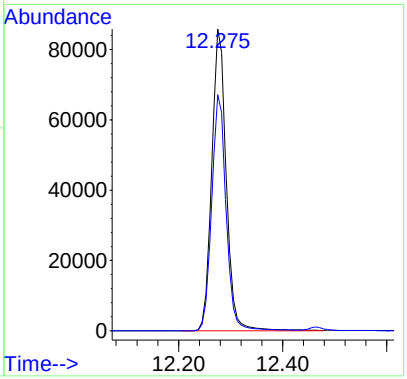


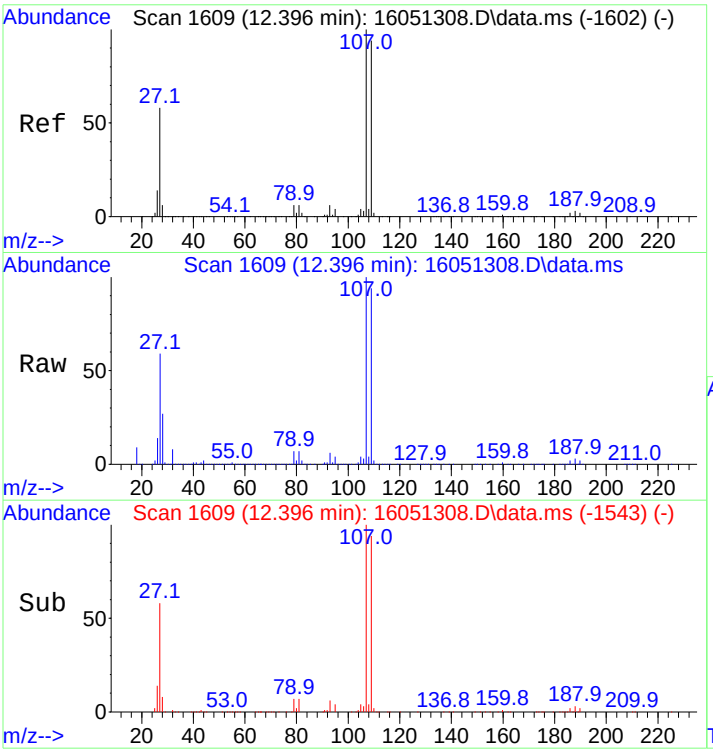


#37
Chlorodibromomethane
Concen: 225.18 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:129 Resp: 166191

Ion	Ratio	Lower	Upper
129	100		
127	77.9	62.3	93.5

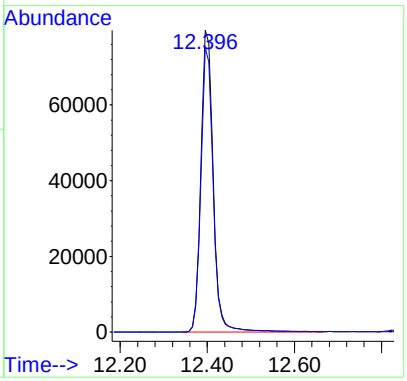


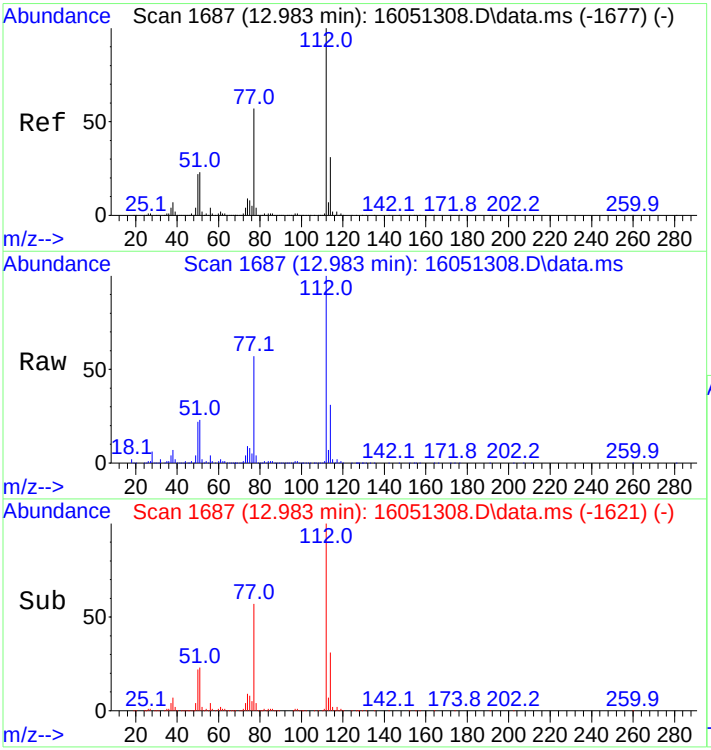


#38
Ethylene Dibromide
Concen: 234.71 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:107 Resp: 158122

Ion	Ratio	Lower	Upper
107	100		
109	92.9	74.3	111.5

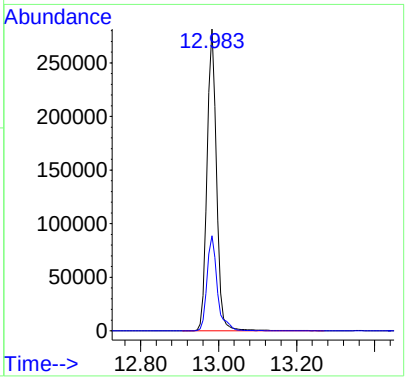


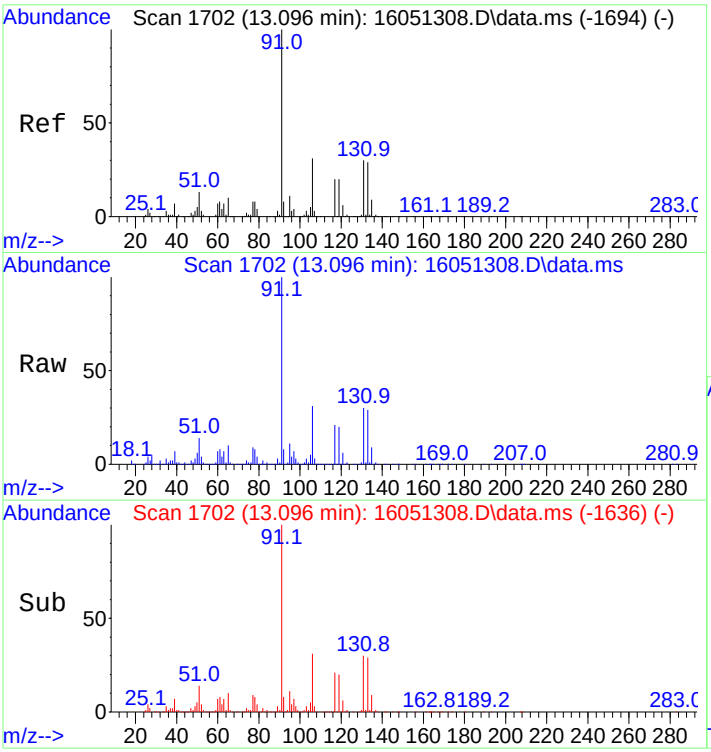


#39
Chlorobenzene
Concen: 244.06 ng
RT: 12.983 min Scan# 1687
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:112 Resp: 472182

Ion	Ratio	Lower	Upper
112	100		
114	34.4	27.5	41.3

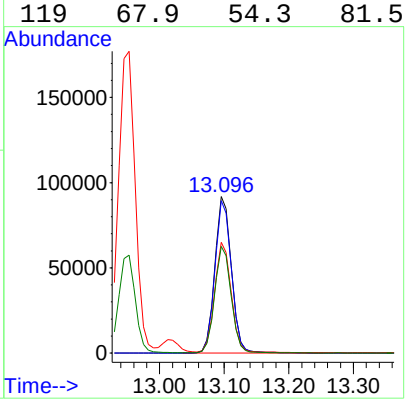


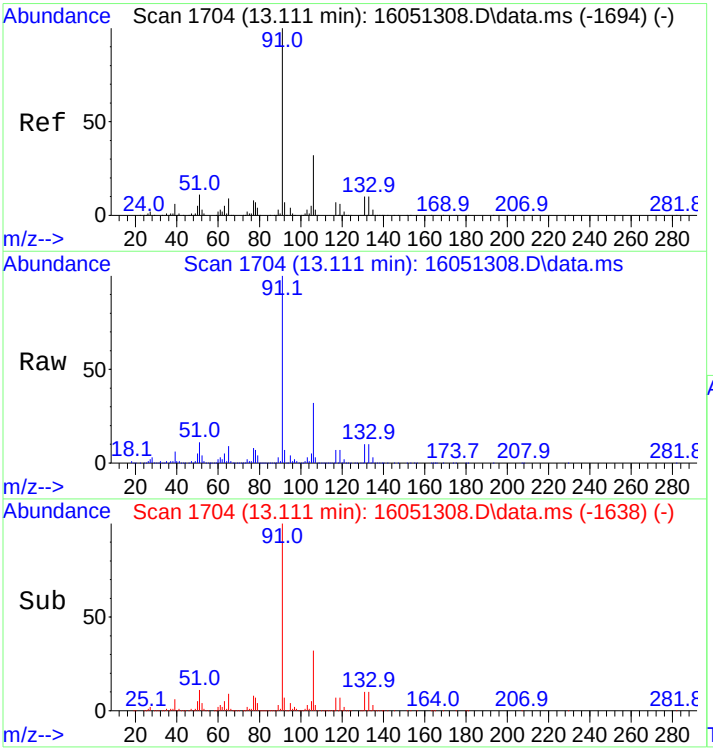


#40
1,1,1,2-Tetrachloroethane
Concen: 238.16 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:131 Resp: 163531

Ion	Ratio	Lower	Upper
131	100		
133	97.2	77.8	116.6
117	71.4	57.1	85.7
119	67.9	54.3	81.5

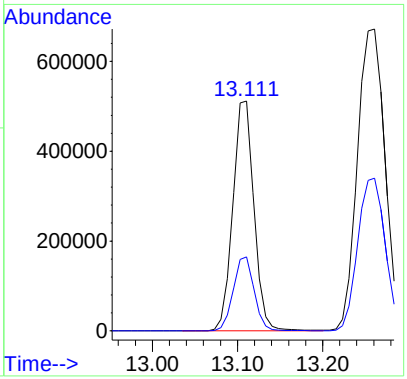


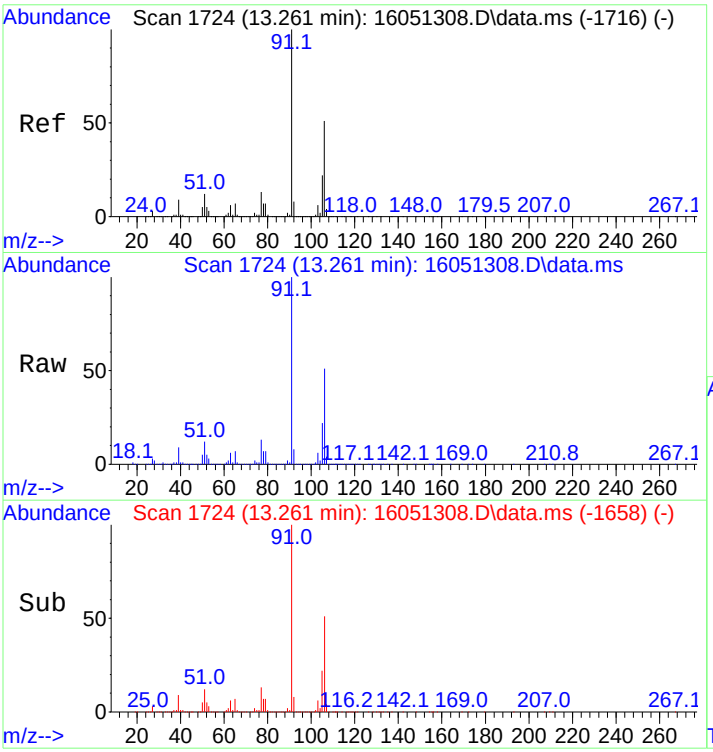


#41
Ethylbenzene
Concen: 247.23 ng
RT: 13.111 min Scan# 1704
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 884304

Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.5	38.3

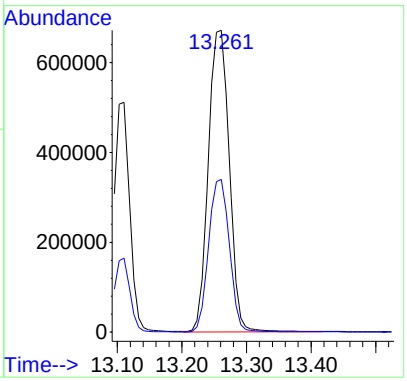


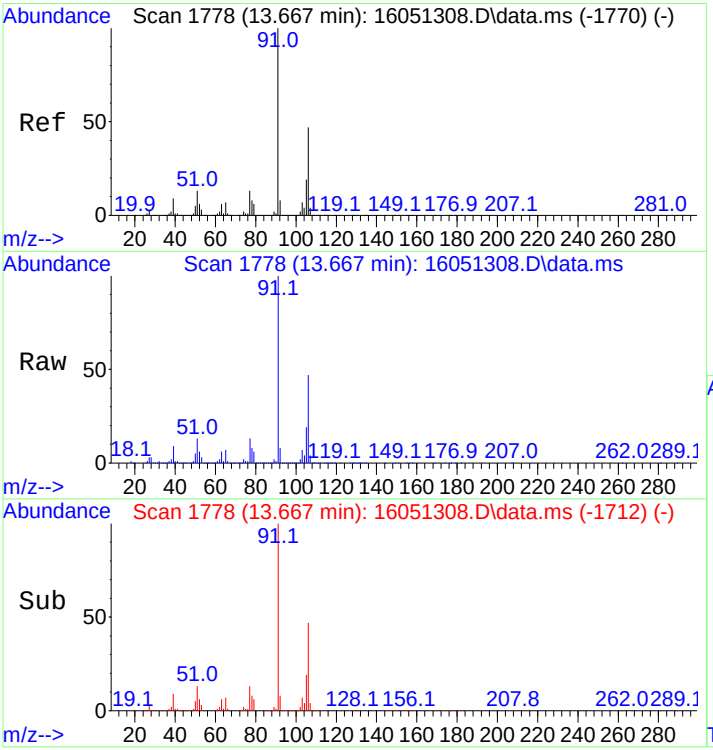


#42
M&P-Xylene
Concen: 499.83 ng
RT: 13.261 min Scan# 1724
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 1520389

Ion	Ratio	Lower	Upper
91	100		
106	50.5	40.4	60.6

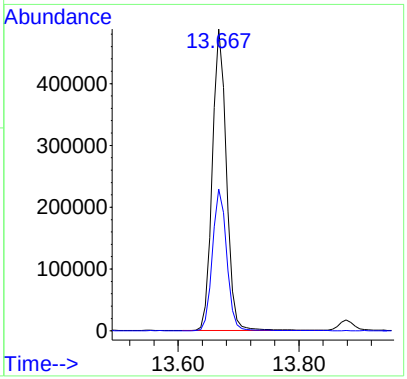


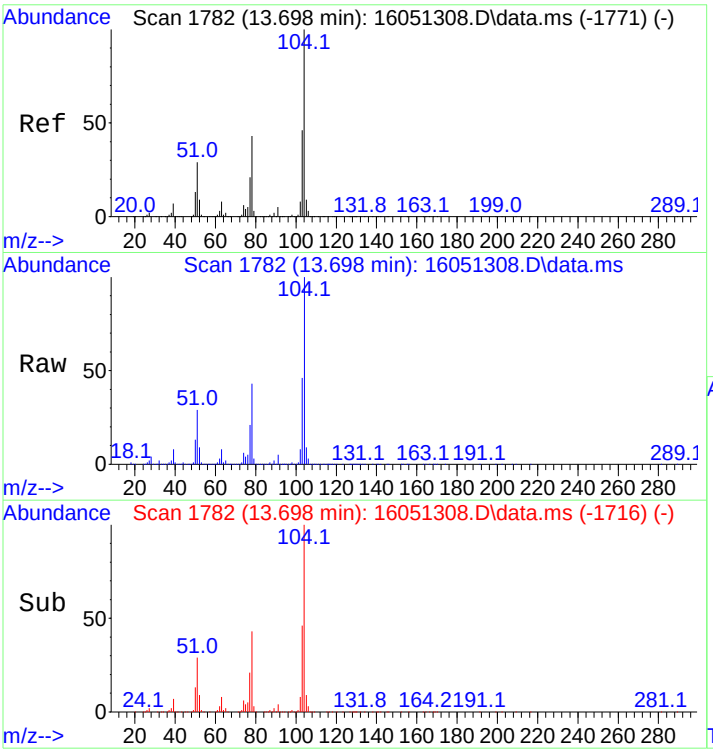


#43
O-Xylene
Concen: 249.16 ng
RT: 13.667 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 785622

Ion	Ratio	Lower	Upper
91	100		
106	47.7	38.2	57.2

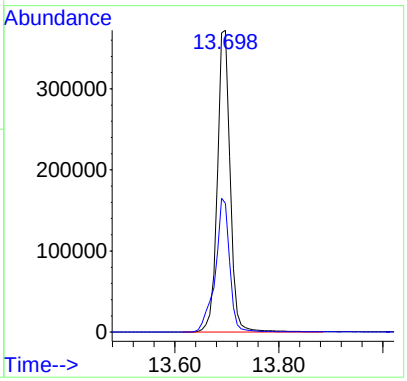


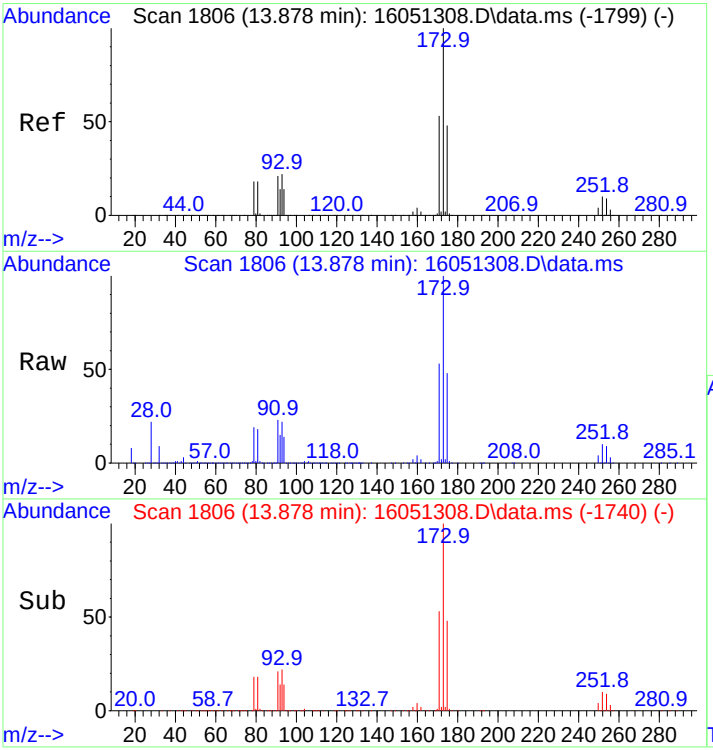


#44
Styrene
Concen: 236.36 ng
RT: 13.698 min Scan# 1782
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:104 Resp: 636165

Ion	Ratio	Lower	Upper
104	100		
78	49.7	39.8	59.6

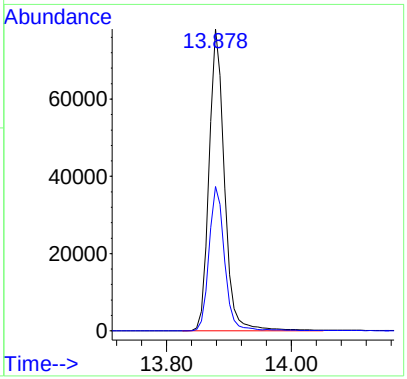


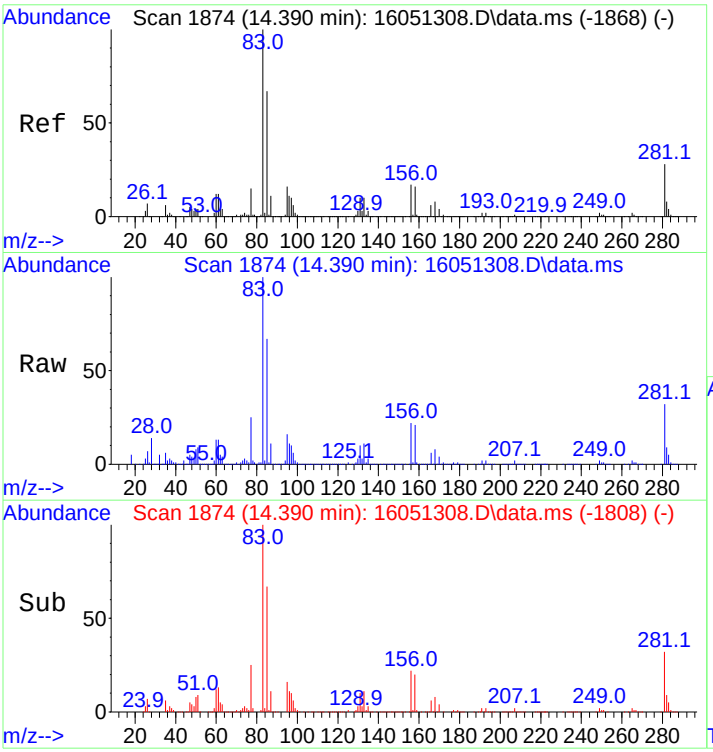


#45
Bromoform
Concen: 230.35 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:173 Resp: 133984

Ion	Ratio	Lower	Upper
173	100		
175	48.1	38.5	57.7

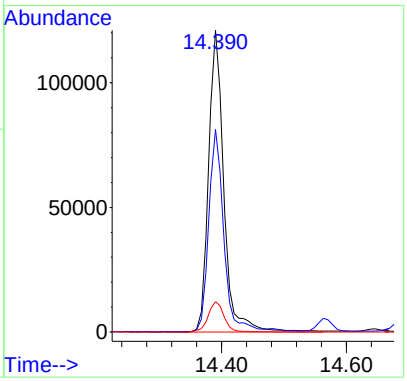


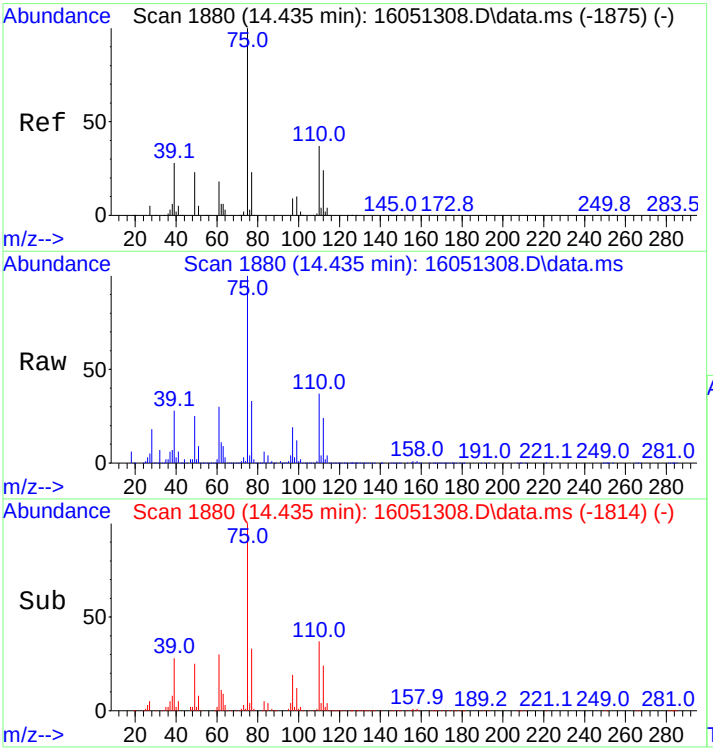


#46
1,1,2,2-Tetrachloroethane
Concen: 223.97 ng
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 205885

Ion	Ratio	Lower	Upper
83	100		
85	65.4	53.1	79.7
131	10.7	8.9	13.3

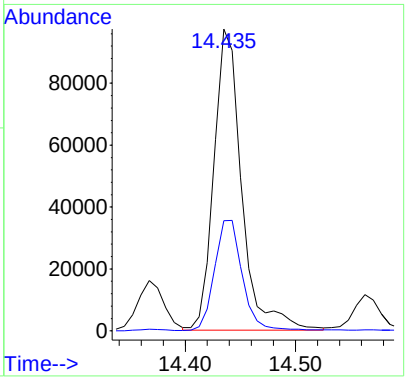


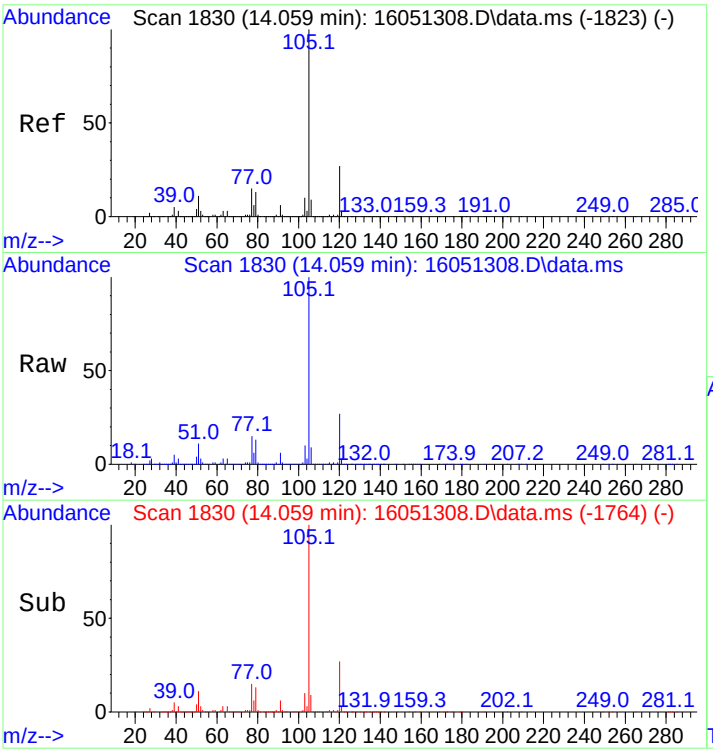


#47
1,2,3-Trichloropropane
Concen: 224.93 ng
RT: 14.435 min Scan# 1880
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 170798

Ion	Ratio	Lower	Upper
75	100		
110	36.9	30.5	45.7

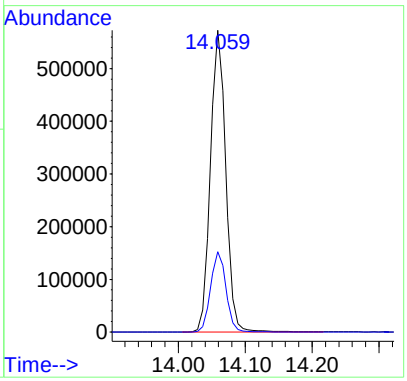


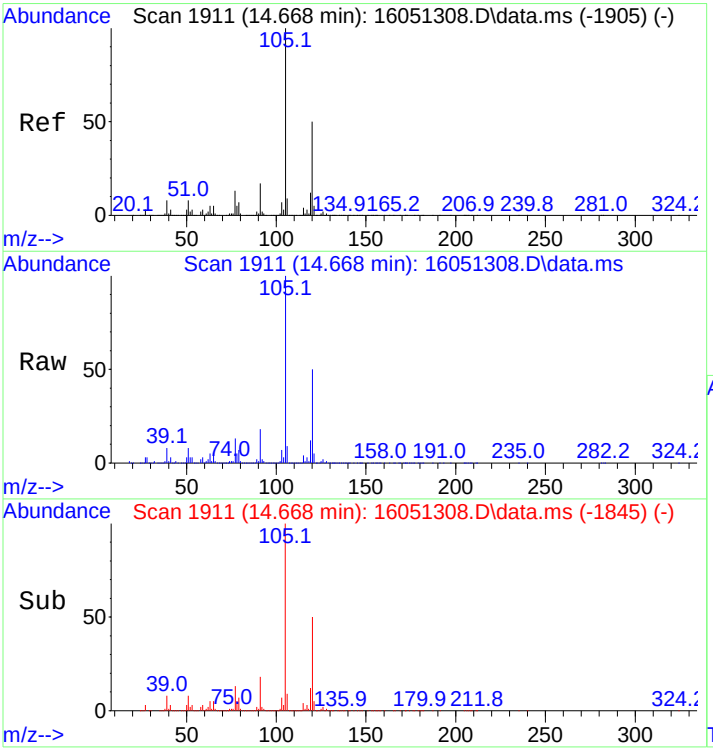


#51
Isopropylbenzene
Concen: 247.75 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 907900

Ion	Ratio	Lower	Upper
105	100		
120	26.8	21.4	32.2

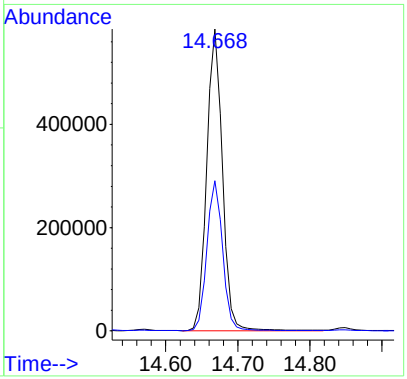


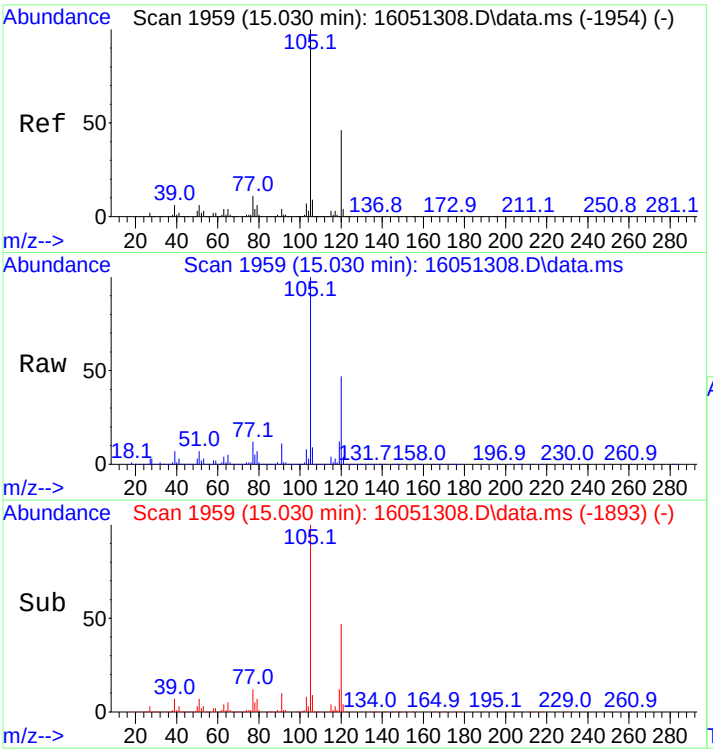


#52
1,3,5-Trimethylbenzene
Concen: 249.66 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 891620

Ion	Ratio	Lower	Upper
105	100		
120	49.9	39.9	59.9

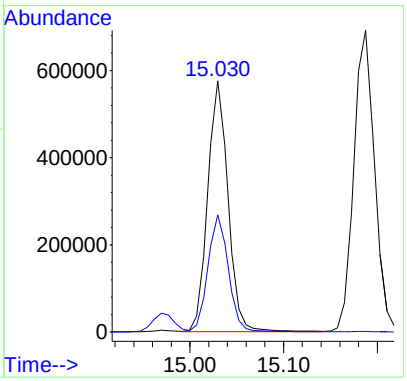


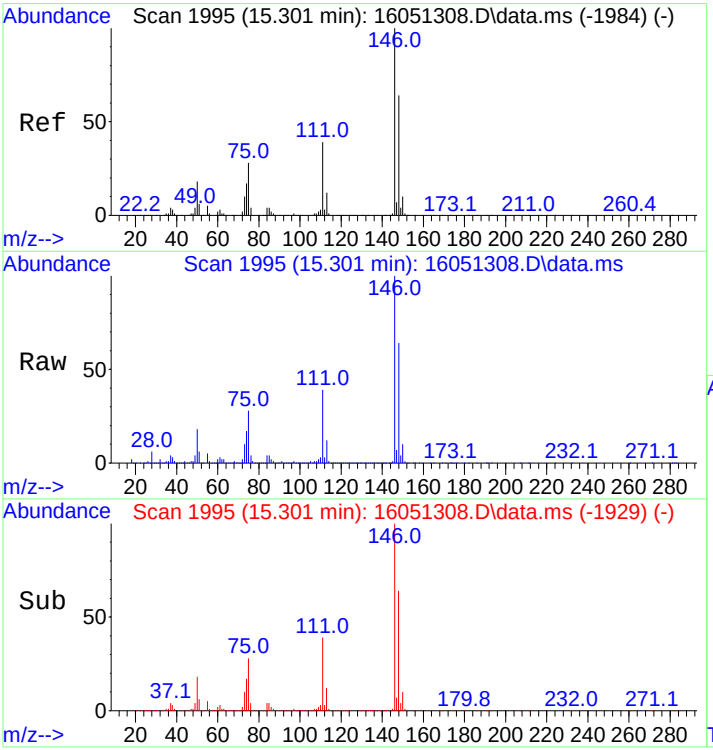


#53
1,2,4-Trimethylbenzene
Concen: 246.99 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 870962

Ion	Ratio	Lower	Upper
105	100		
120	46.9	37.5	56.3

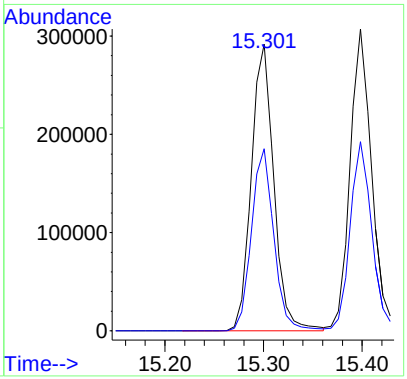


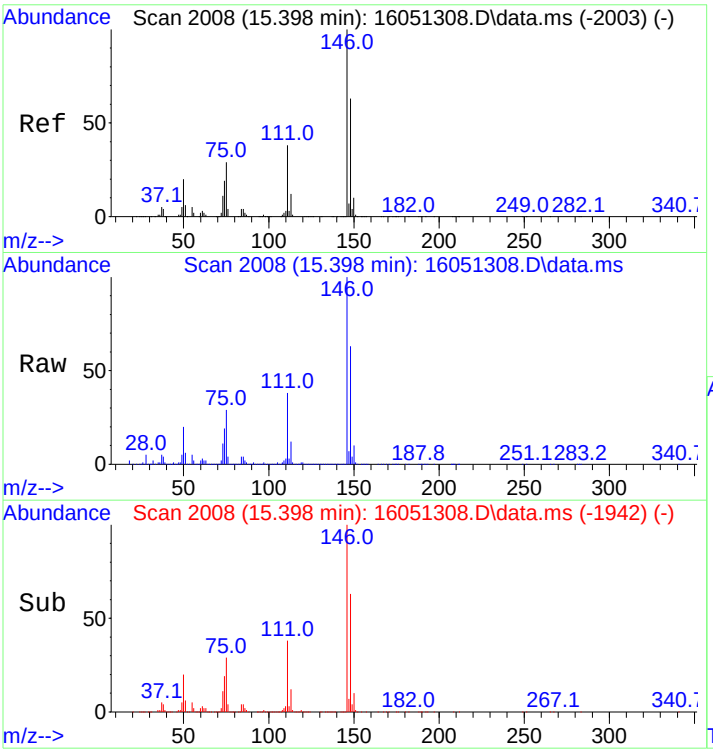


#54
1,3-Dichlorobenzene
Concen: 251.13 ng
RT: 15.301 min Scan# 1995
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:146 Resp: 462162

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	76.0

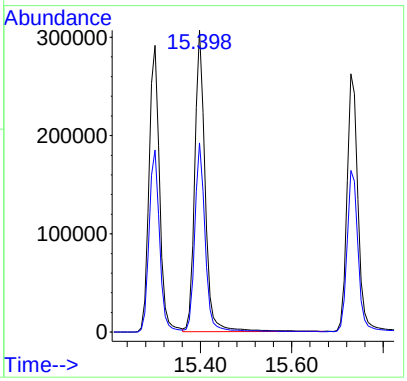


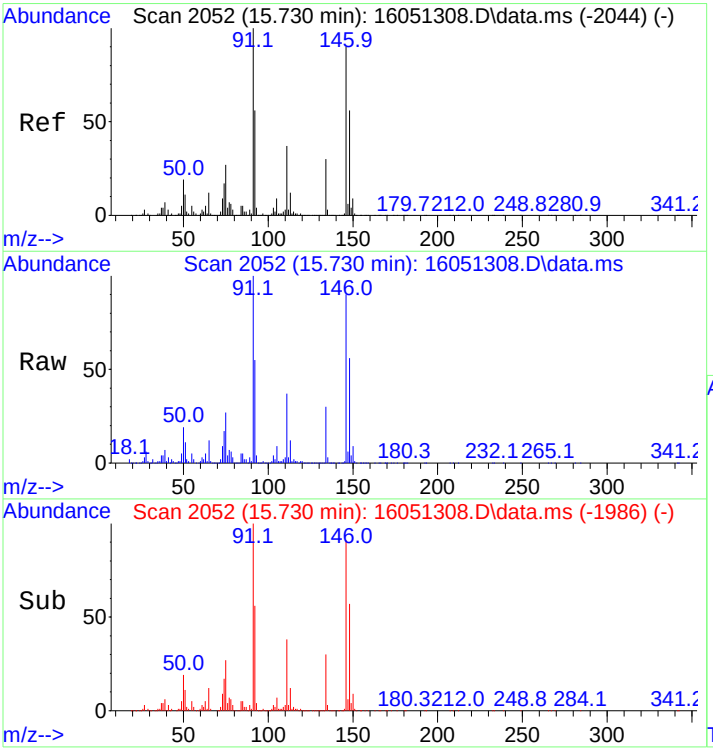


#55
1,4-Dichlorobenzene
Concen: 250.25 ng
RT: 15.398 min Scan# 2008
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:146 Resp: 486804

Ion	Ratio	Lower	Upper
146	100		
148	62.4	49.9	74.9

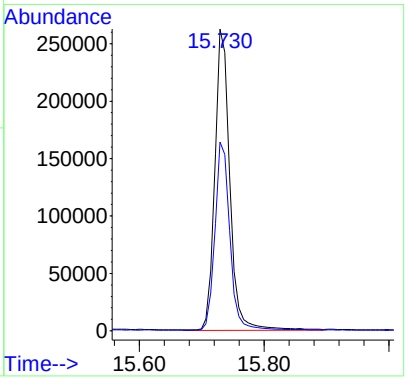


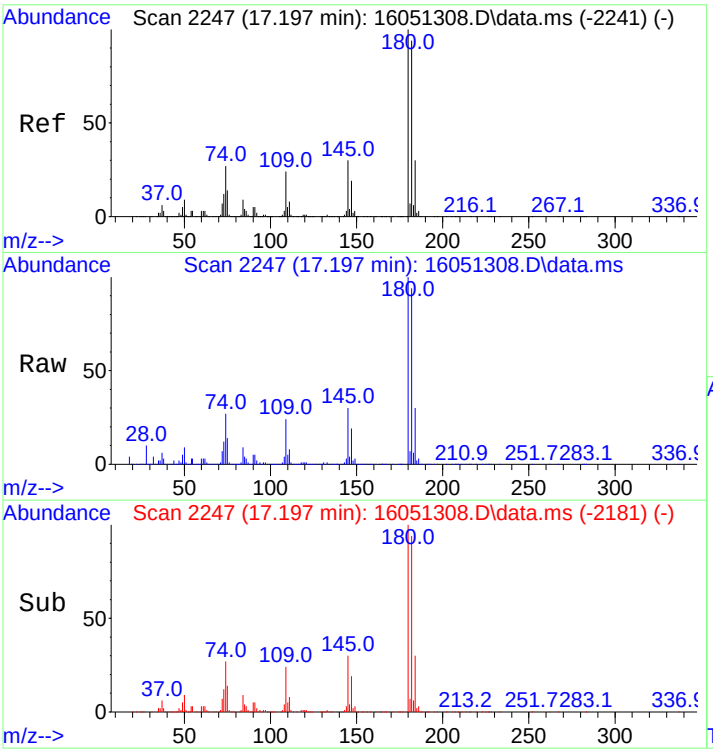


#56
1,2-Dichlorobenzene
Concen: 252.81 ng
RT: 15.730 min Scan# 2052
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:146 Resp: 440051

Ion	Ratio	Lower	Upper
146	100		
148	62.4	49.9	74.9

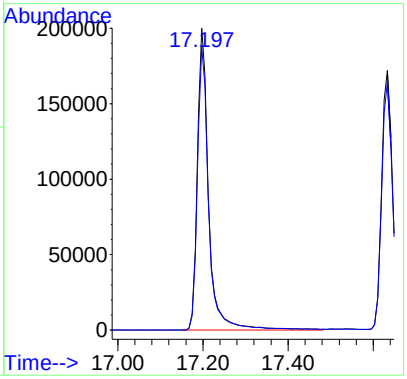


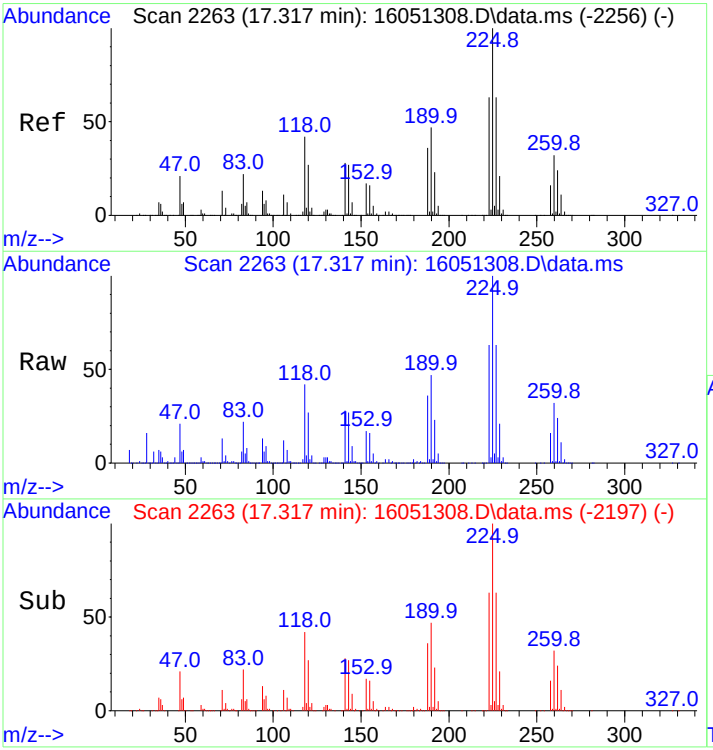


#57
1,2,4-Trichlorobenzene
Concen: 251.27 ng
RT: 17.197 min Scan# 2247
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:180 Resp: 370959

Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.0	112.4

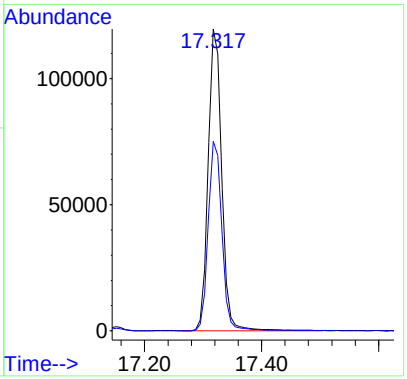


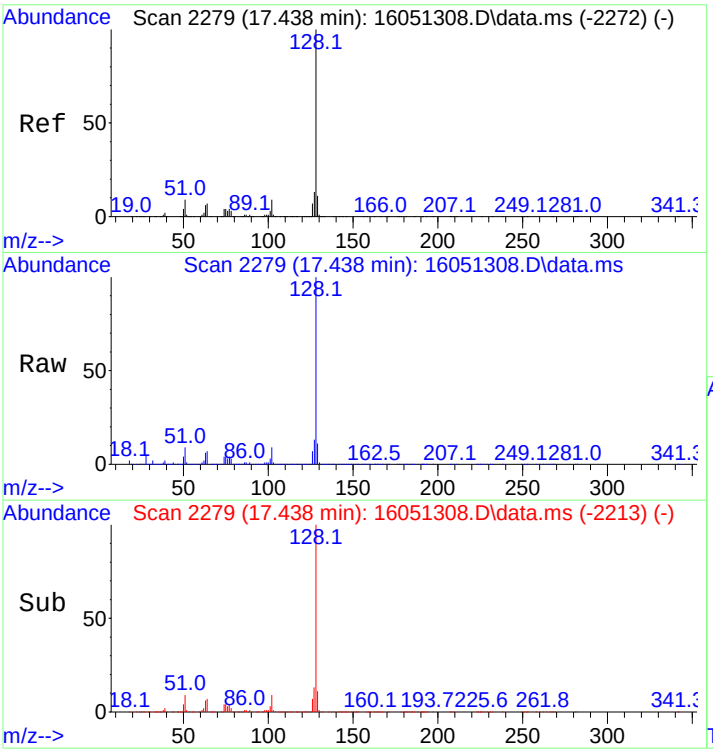


#58
Hexachlorobutadiene
Concen: 247.45 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:225 Resp: 192028

Ion	Ratio	Lower	Upper
225	100		
227	63.9	51.1	76.7

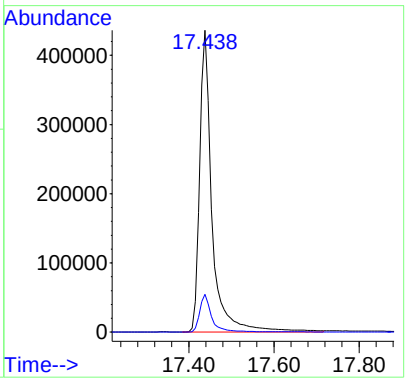


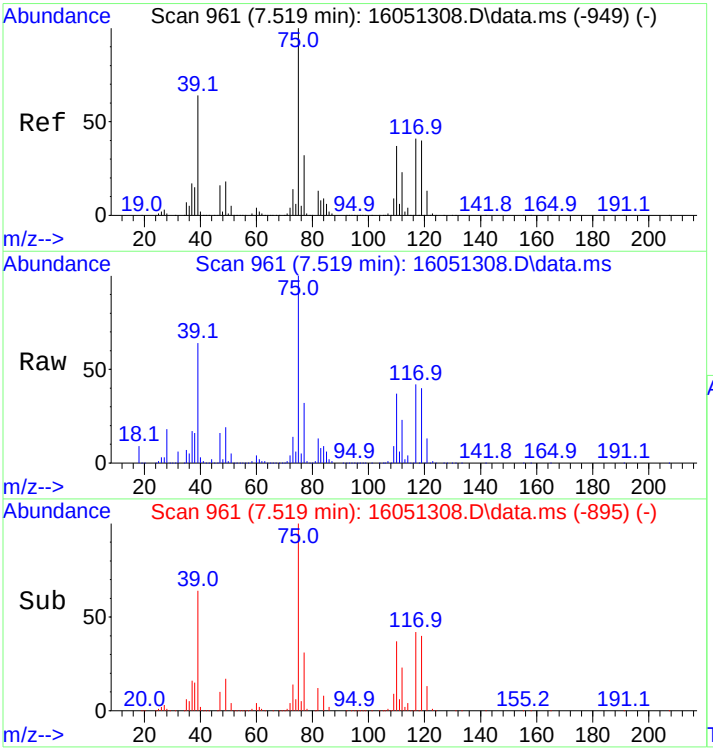


#59
Naphthalene
Concen: 244.23 ng
RT: 17.438 min Scan# 2279
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:128 Resp: 885021

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

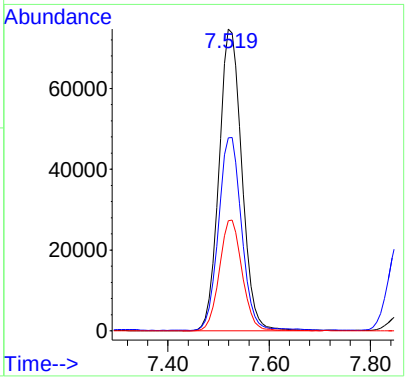


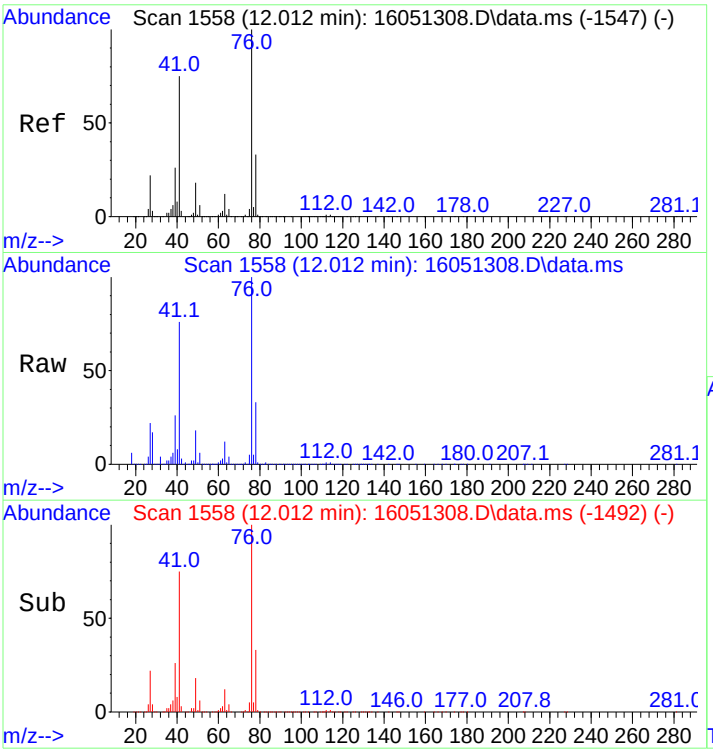


#60
1,1-Dichloropropene
Concen: 232.80 ng
RT: 7.519 min Scan# 961
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 234864

Ion	Ratio	Lower	Upper
75	100		
39	64.7	51.8	77.6
110	36.6	29.3	43.9

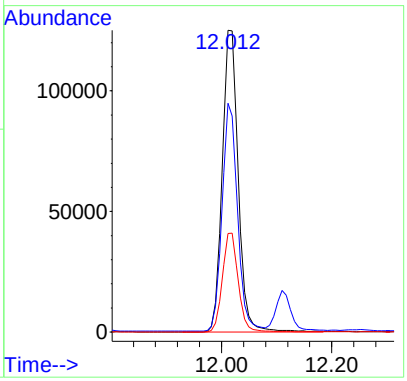


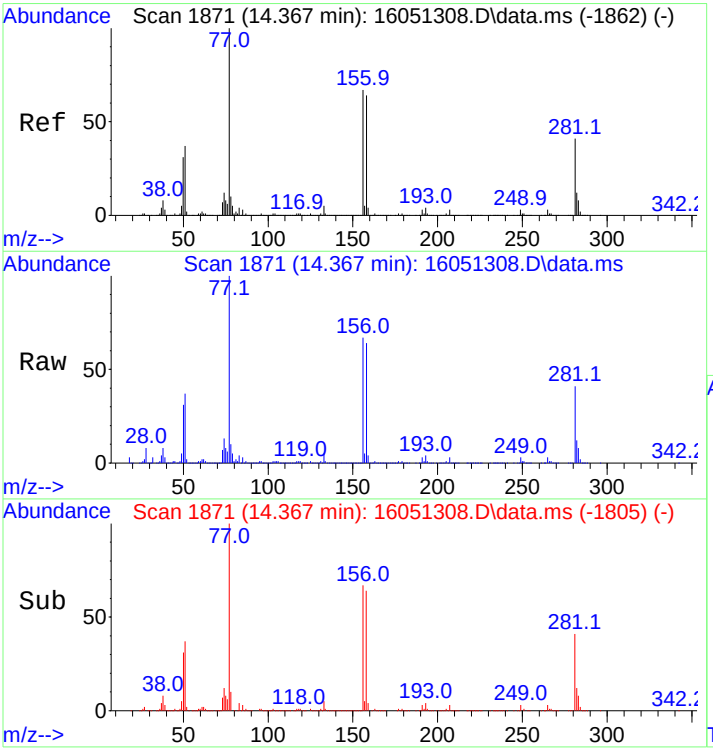


#61
1,3-Dichloropropane
Concen: 223.96 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 76 Resp: 252001

Ion	Ratio	Lower	Upper
76	100		
41	72.8	58.2	87.4
78	32.6	26.1	39.1

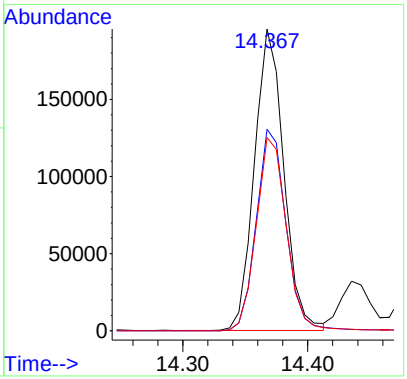


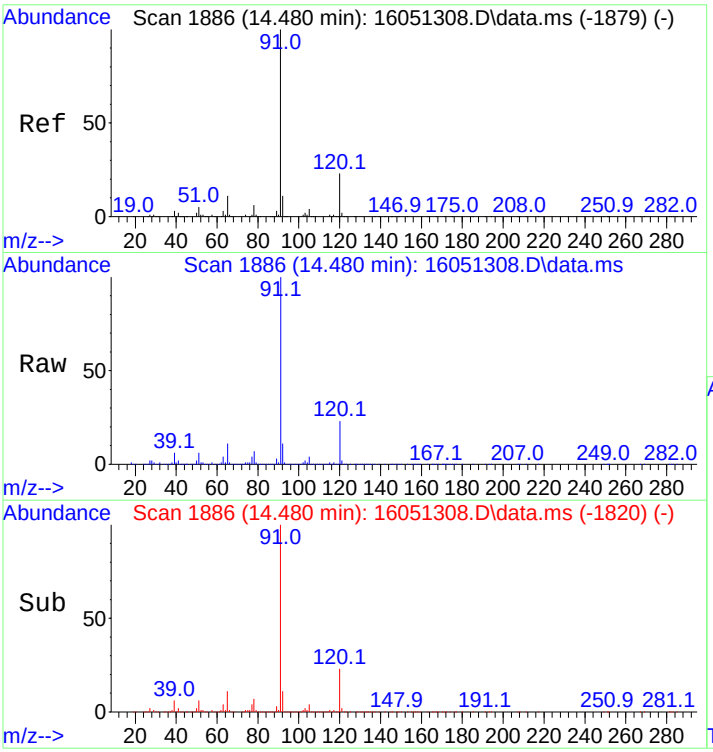


#62
Bromobenzene
Concen: 244.82 ng
RT: 14.367 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 77 Resp: 319277

Ion	Ratio	Lower	Upper
77	100		
156	68.7	55.0	82.4
158	66.6	53.3	79.9

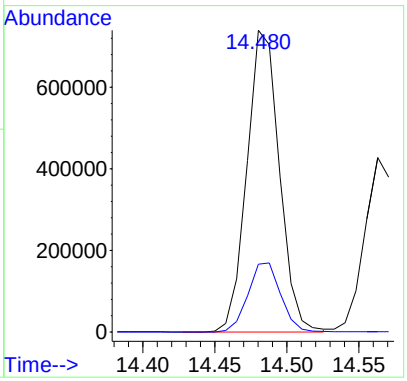


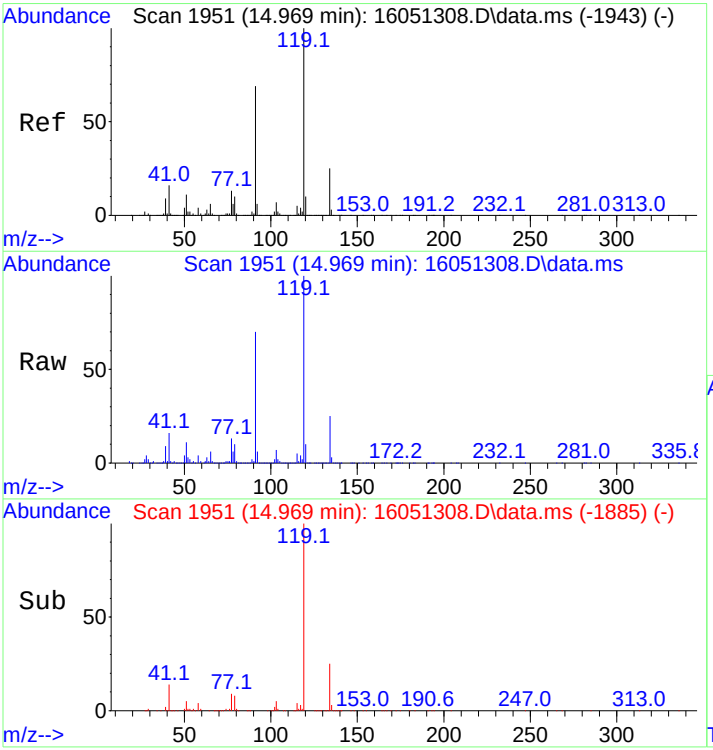


#63
n-Propylbenzene
Concen: 249.15 ng
RT: 14.480 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 1155459

Ion	Ratio	Lower	Upper
91	100		
120	23.3	18.6	28.0

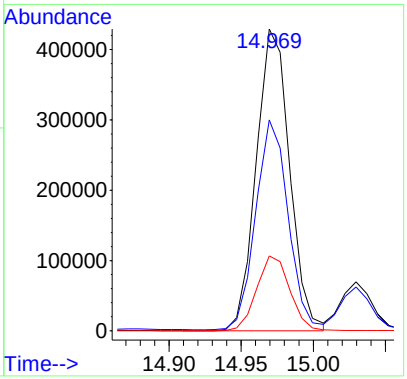


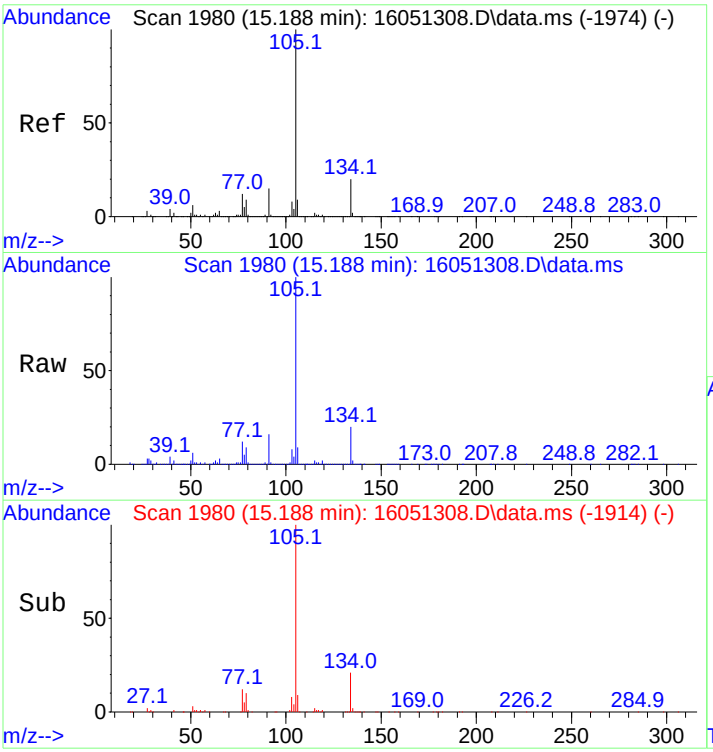


#64
tert-Butylbenzene
Concen: 248.53 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:119 Resp: 689974

Ion	Ratio	Lower	Upper
119	100		
91	67.5	54.0	81.0
134	24.9	19.9	29.9

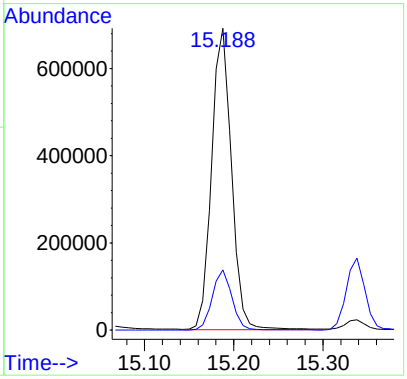


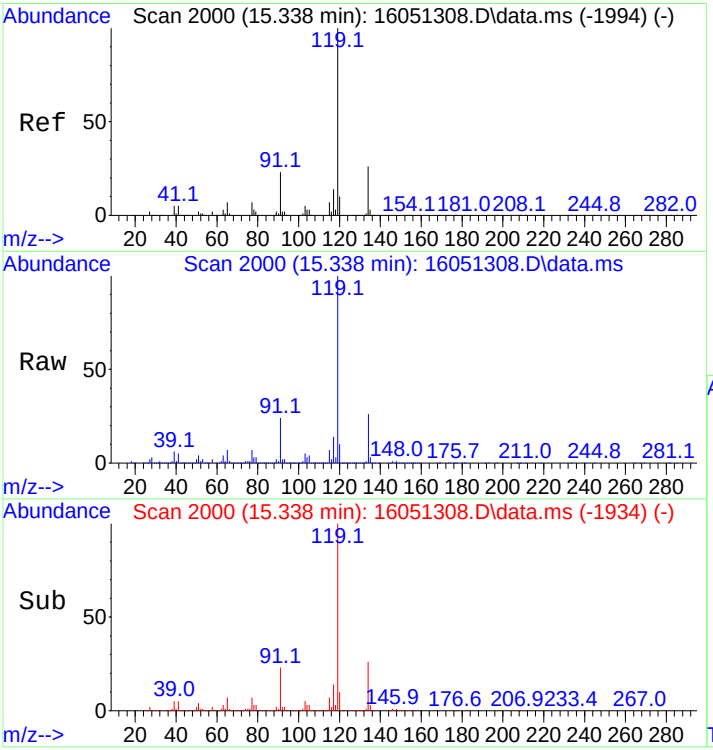


#65
sec-Butylbenzene
Concen: 250.35 ng
RT: 15.188 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 1071021

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5

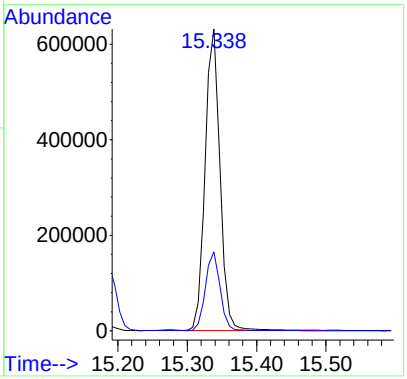


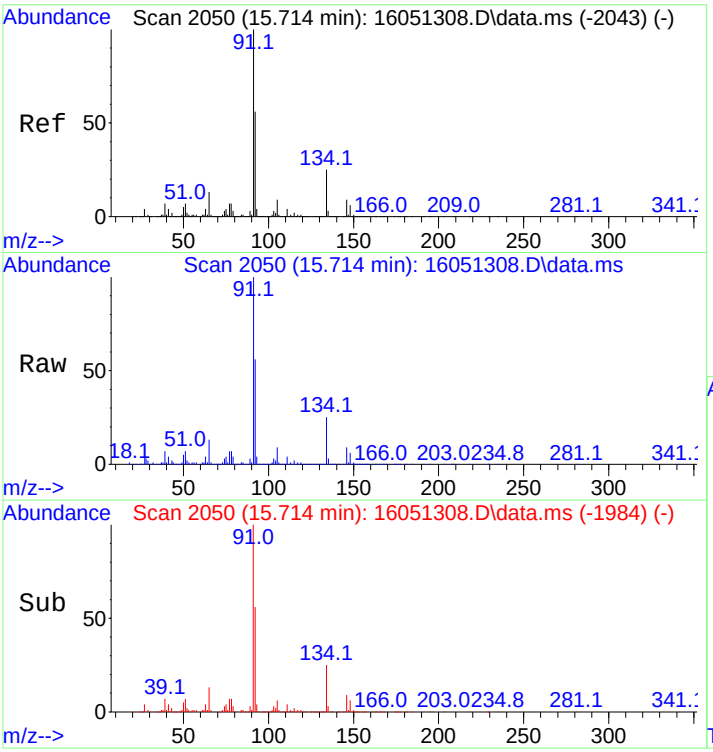


#66
p-Isopropyltoluene
Concen: 249.97 ng
RT: 15.338 min Scan# 2000
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:119 Resp: 942778

Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0

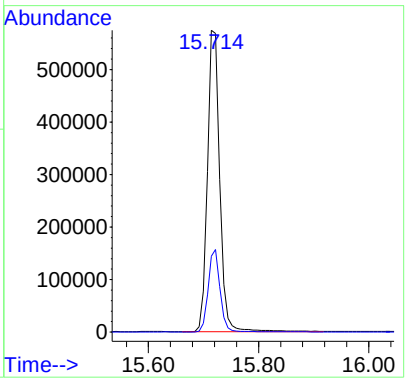


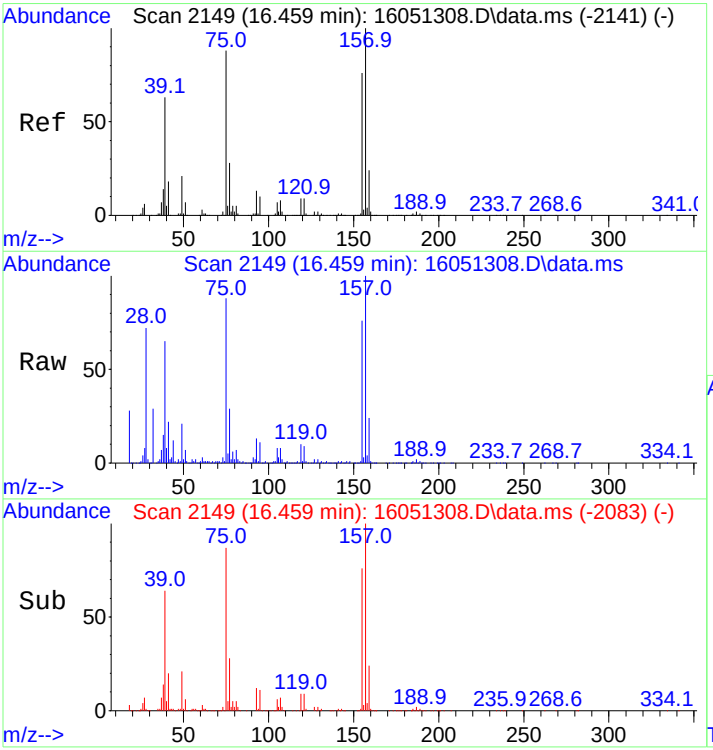


#67
n-Butylbenzene
Concen: 248.21 ng
RT: 15.714 min Scan# 2050
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 905024

Ion	Ratio	Lower	Upper
91	100		
134	26.3	21.0	31.6

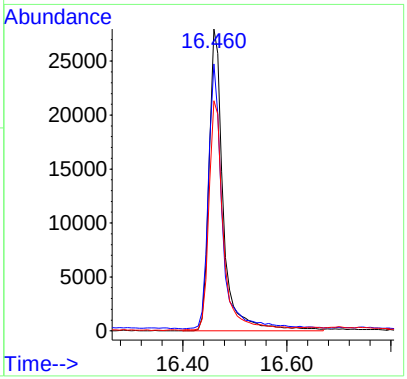




#68
1,2-Dibromo-3-chloropropane
Concen: 231.73 ng
RT: 16.459 min Scan# 2149
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:157 Resp: 53057

Ion	Ratio	Lower	Upper
157	100		
75	85.8	68.6	103.0
155	77.7	62.2	93.2



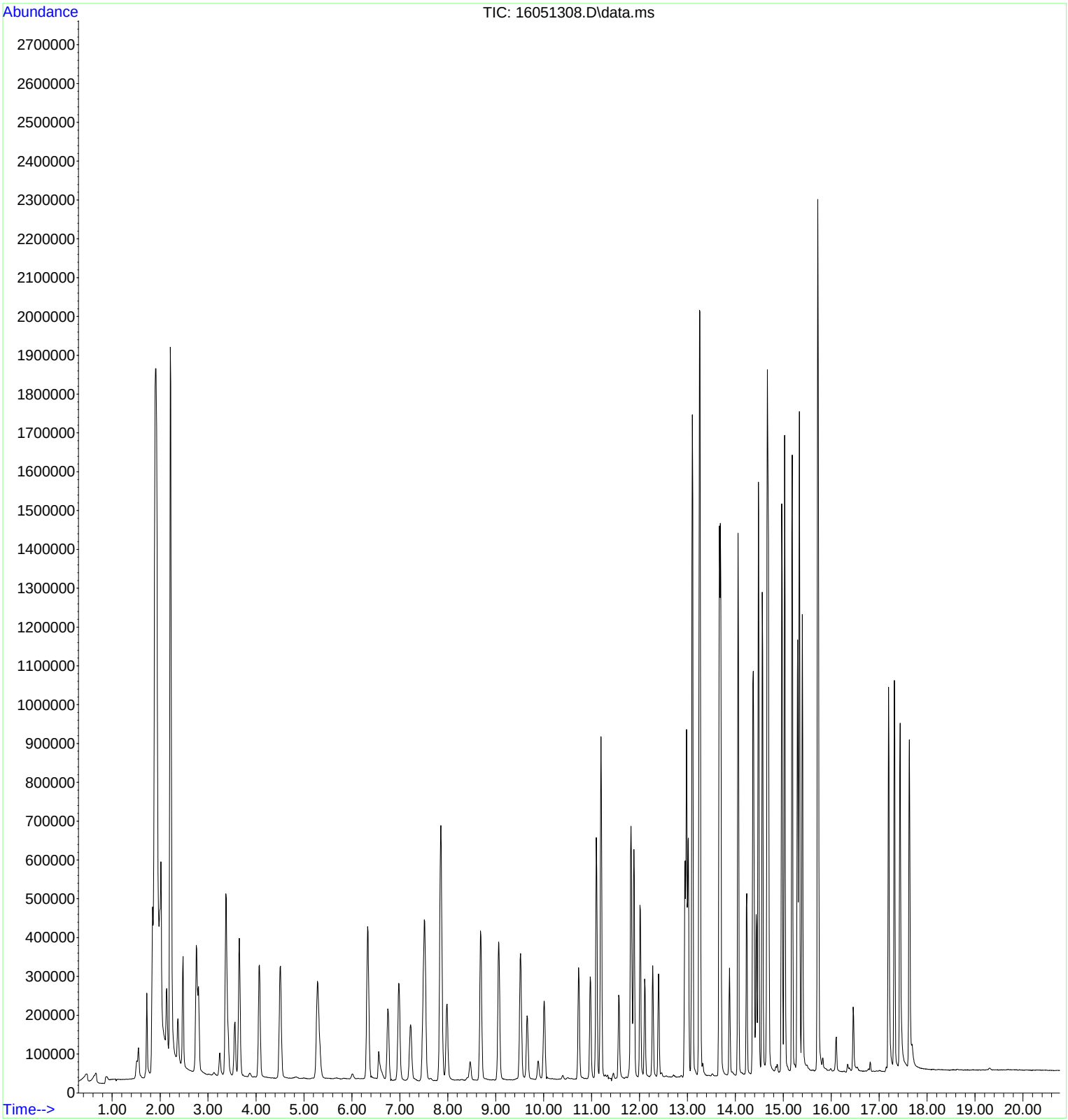
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

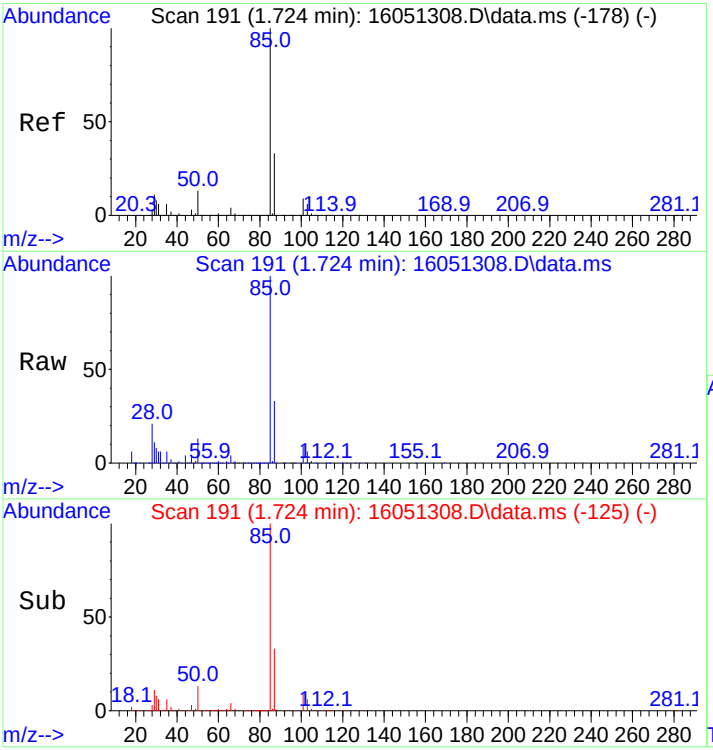
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513\
Data File : 16051308.D
Acq On : 13 May 2016 3:08 pm
Operator : SG Instrument MSD-3
Sample : 250NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:44:17 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:42:46 2016
Response via : Initial Calibration

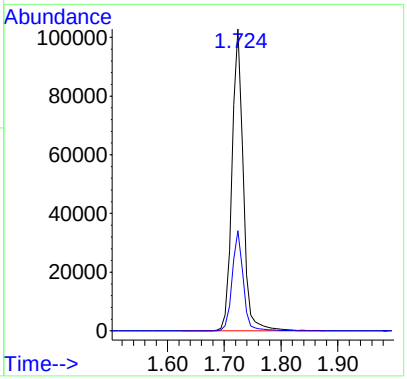


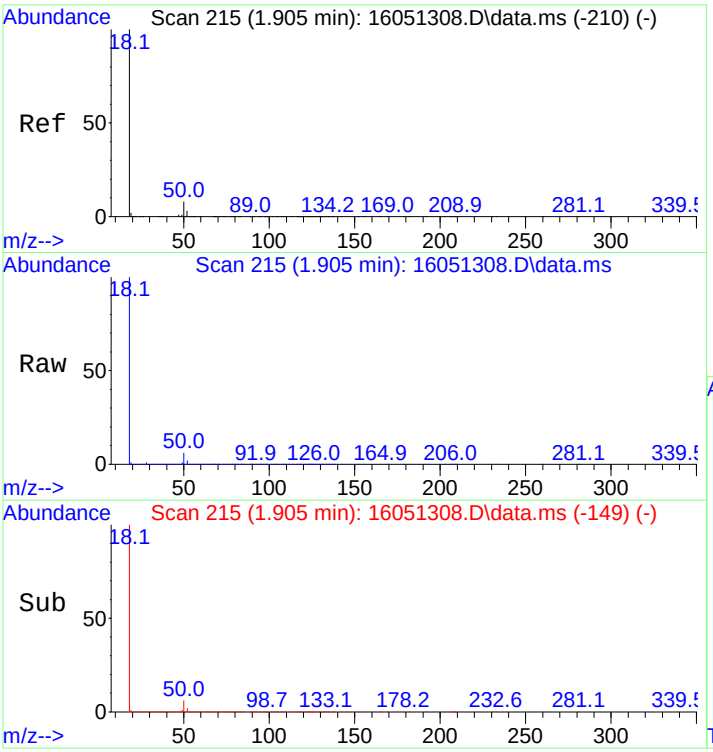


#2
Dichlorodifluoromethane
Concen: 222.64 ng
RT: 1.724 min Scan# 191
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 85 Resp: 141834

Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.0	39.0

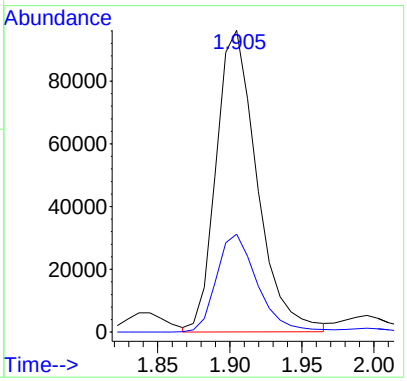


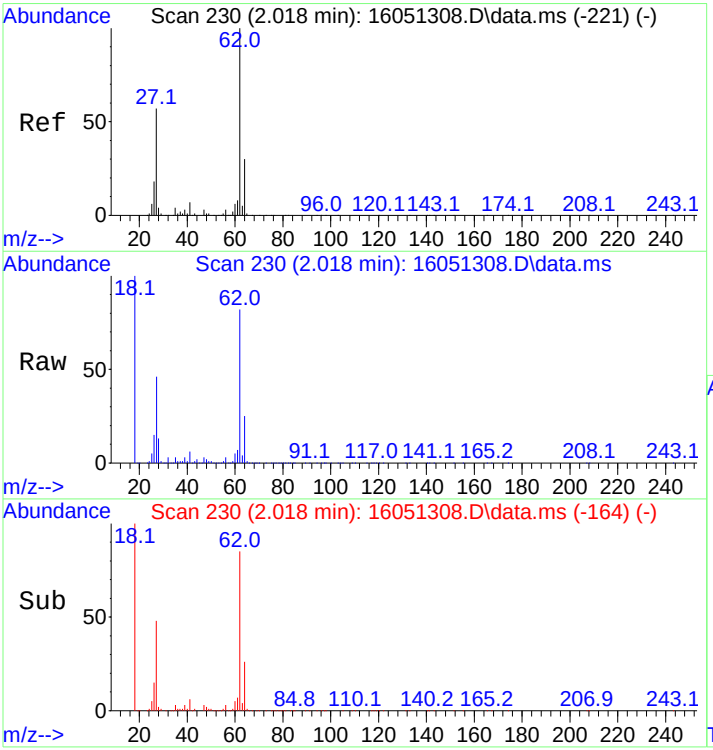


#3
Chloromethane
Concen: 251.29 ng
RT: 1.905 min Scan# 215
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 50 Resp: 189854

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

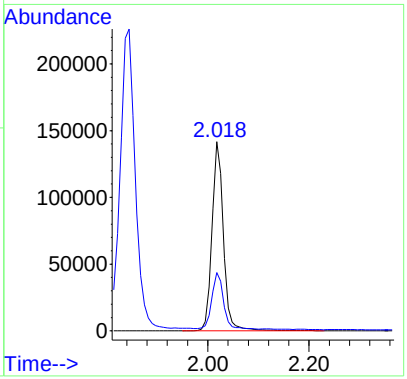


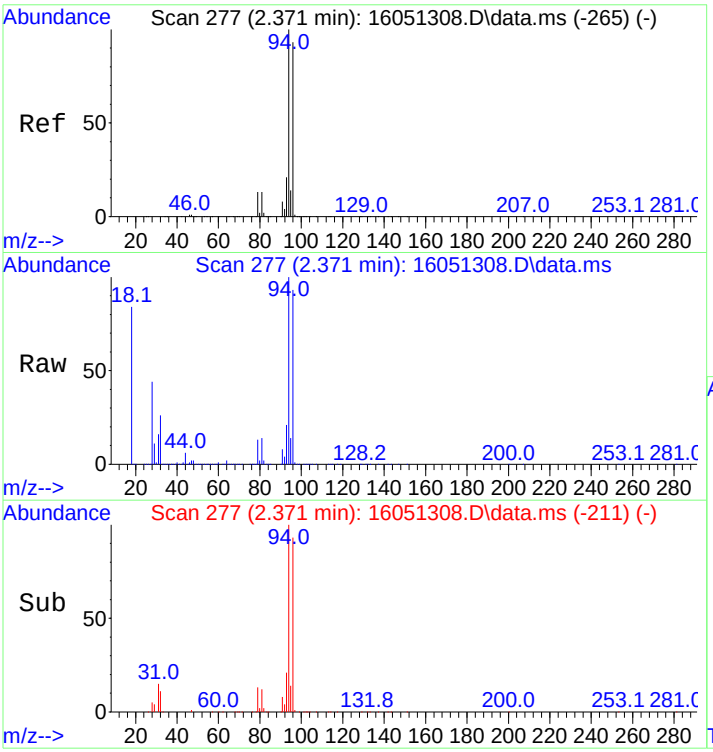


#4
Vinyl Chloride
Concen: 242.89 ng
RT: 2.018 min Scan# 230
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 62 Resp: 220555

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

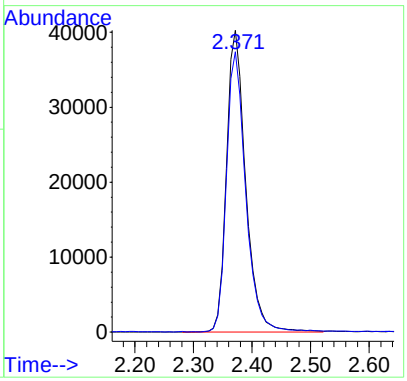


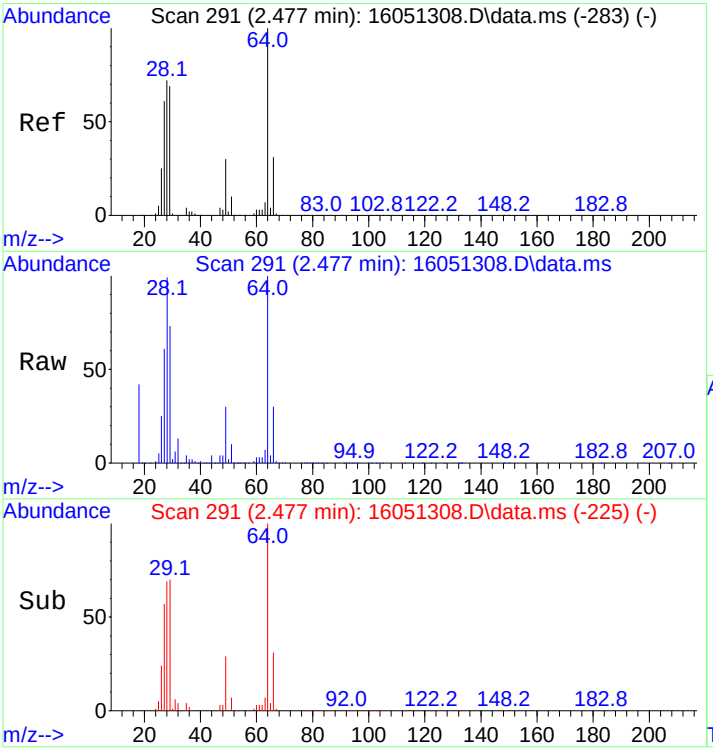


#5
Bromomethane
Concen: 226.78 ng
RT: 2.371 min Scan# 277
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 94 Resp: 91523

Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7

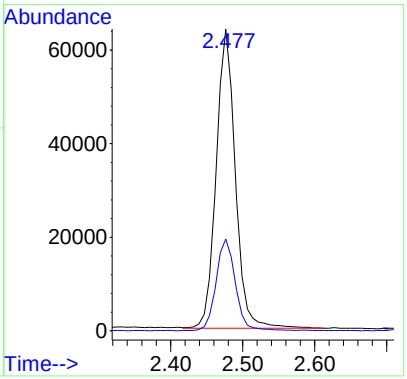


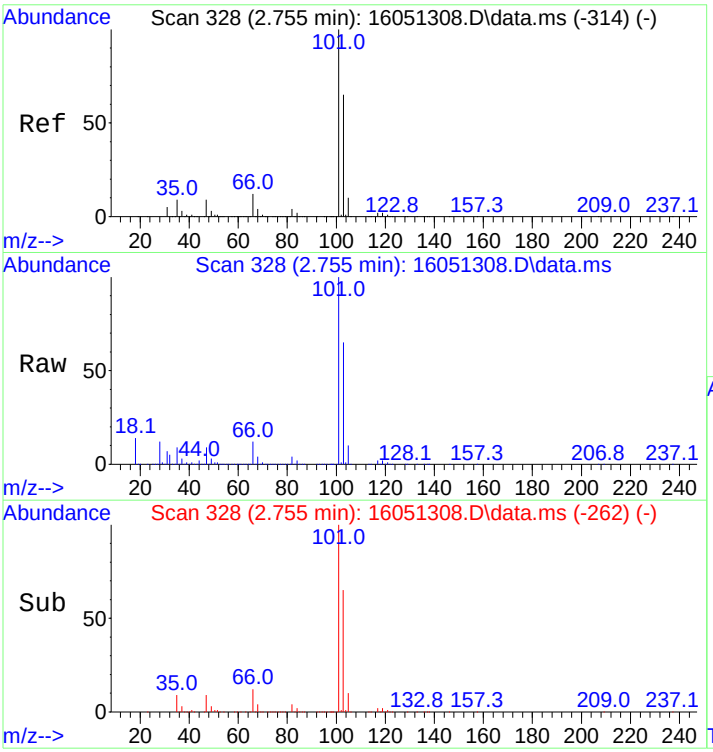


#6
Chloroethane
Concen: 248.92 ng
RT: 2.477 min Scan# 291
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 64 Resp: 117684

Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.0	37.4

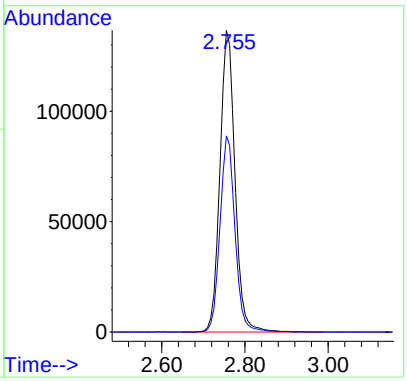


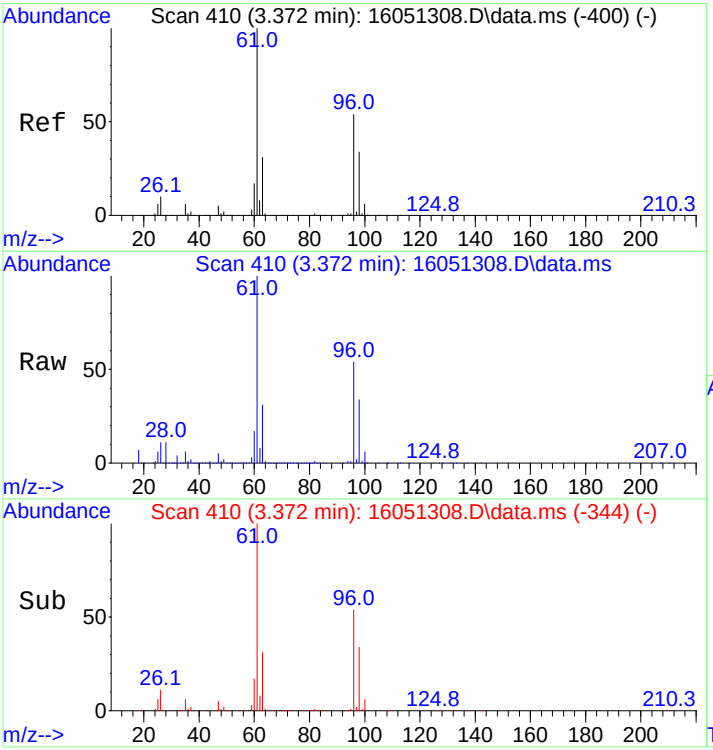


#7
Trichlorofluoromethane
Concen: 253.44 ng
RT: 2.755 min Scan# 328
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:101 Resp: 343270

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.8	77.6

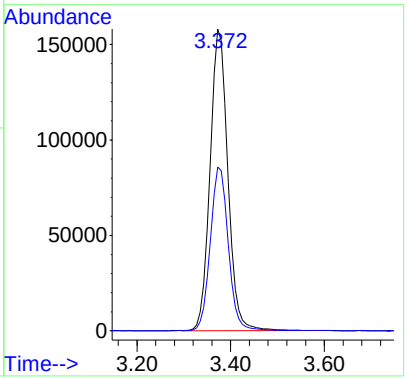


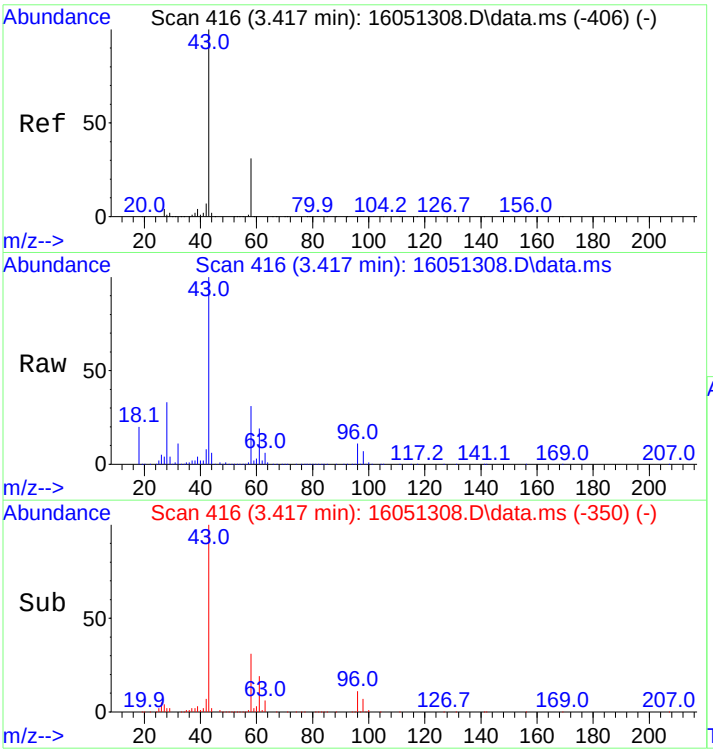


#8
1,1-Dichloroethene
Concen: 255.87 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 61 Resp: 417695

Ion	Ratio	Lower	Upper
61	100		
96	55.1	44.1	66.1

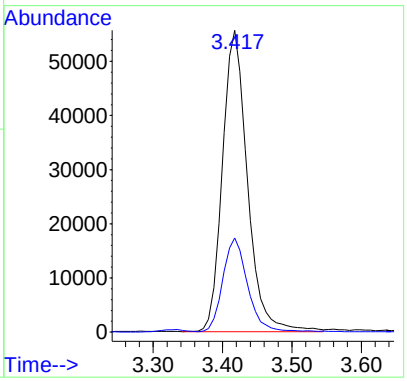


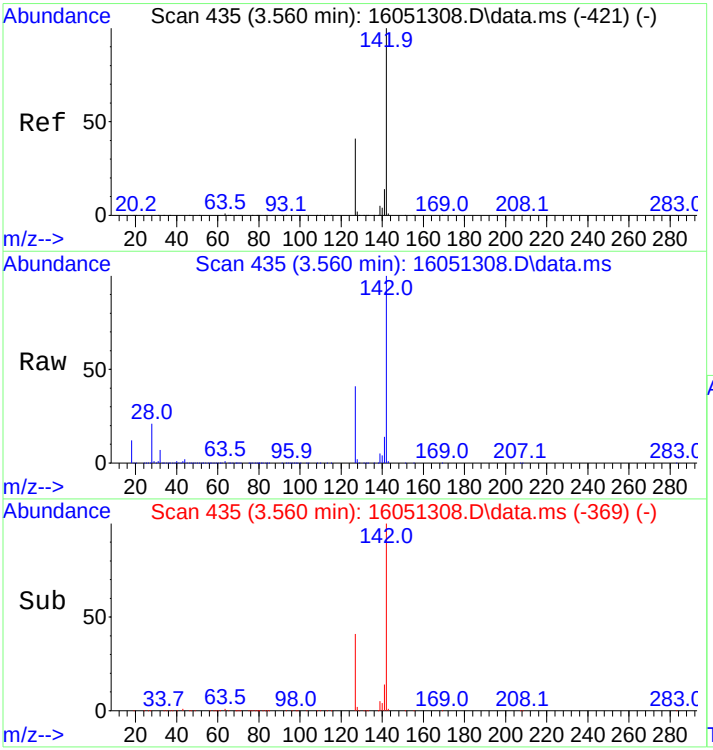


#9
Acetone
Concen: 229.19 ng
RT: 3.417 min Scan# 416
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 139243

Ion	Ratio	Lower	Upper
43	100		
58	30.9	24.7	37.1

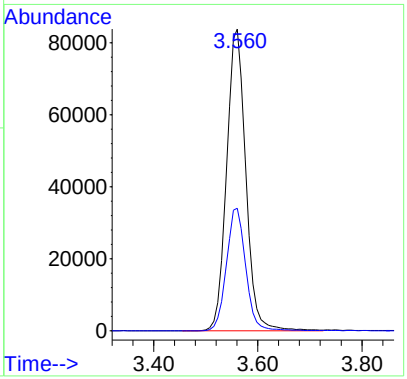


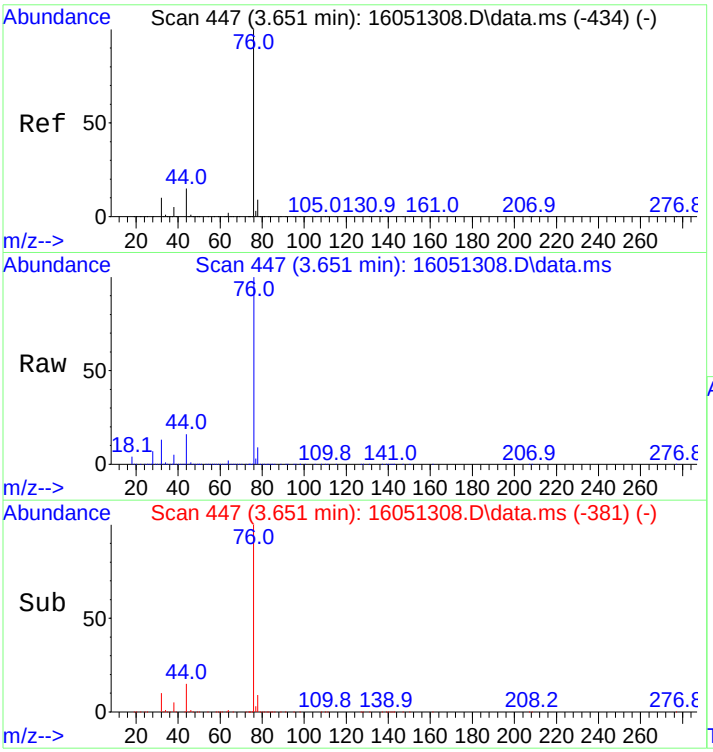


#10
Iodomethane
Concen: 330.64 ng
RT: 3.560 min Scan# 435
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:142 Resp: 214082

Ion	Ratio	Lower	Upper
142	100		
127	41.0	32.8	49.2

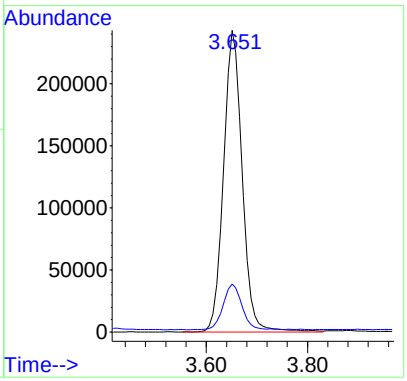


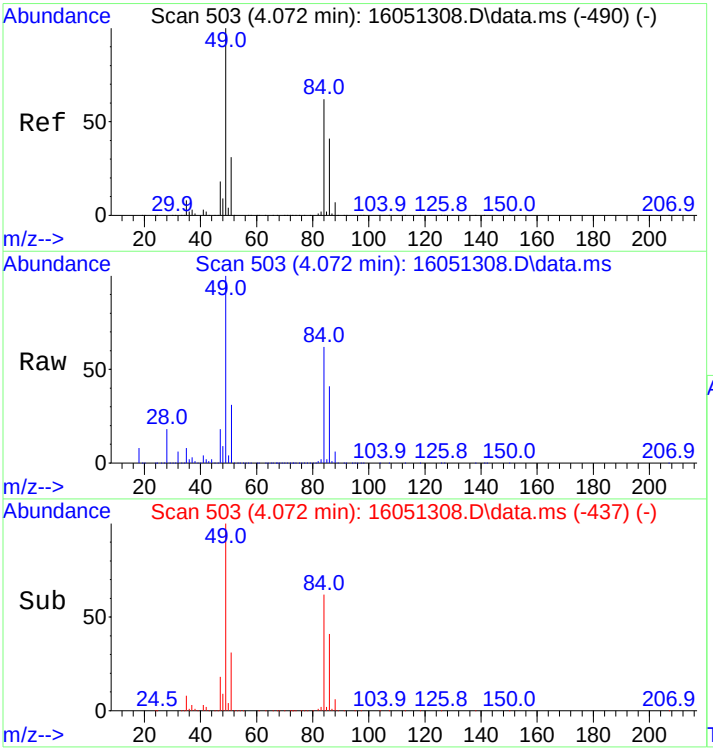


#11
Carbon disulfide
Concen: 244.73 ng
RT: 3.651 min Scan# 447
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 76 Resp: 625399

Ion	Ratio	Lower	Upper
76	100		
44	15.3	12.2	18.4

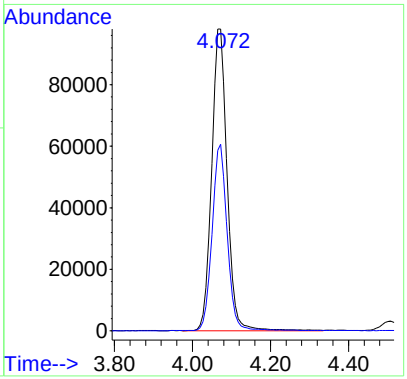


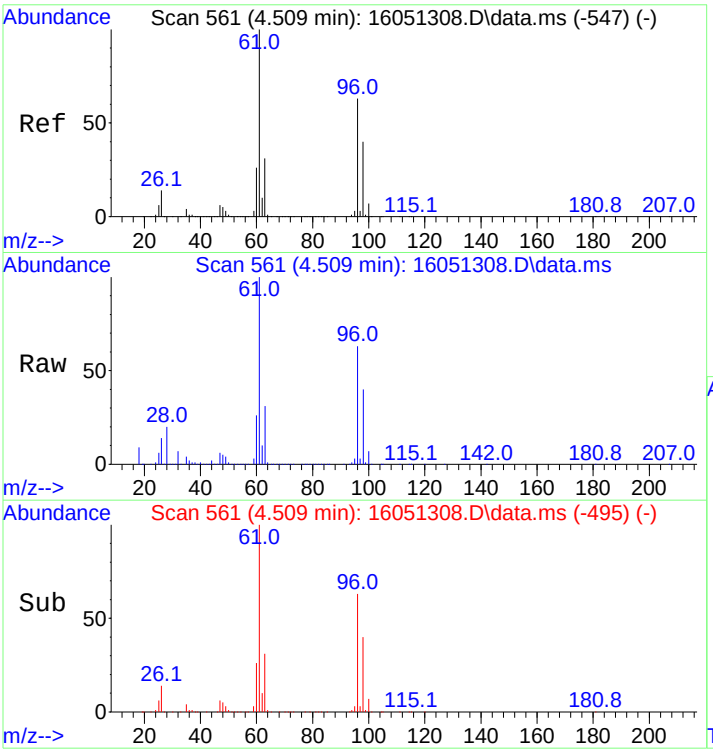


#12
Methylene Chloride
Concen: 238.64 ng
RT: 4.072 min Scan# 503
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 49 Resp: 269588

Ion	Ratio	Lower	Upper
49	100		
84	60.5	48.4	72.6

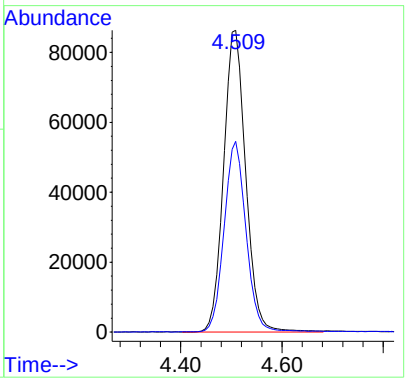


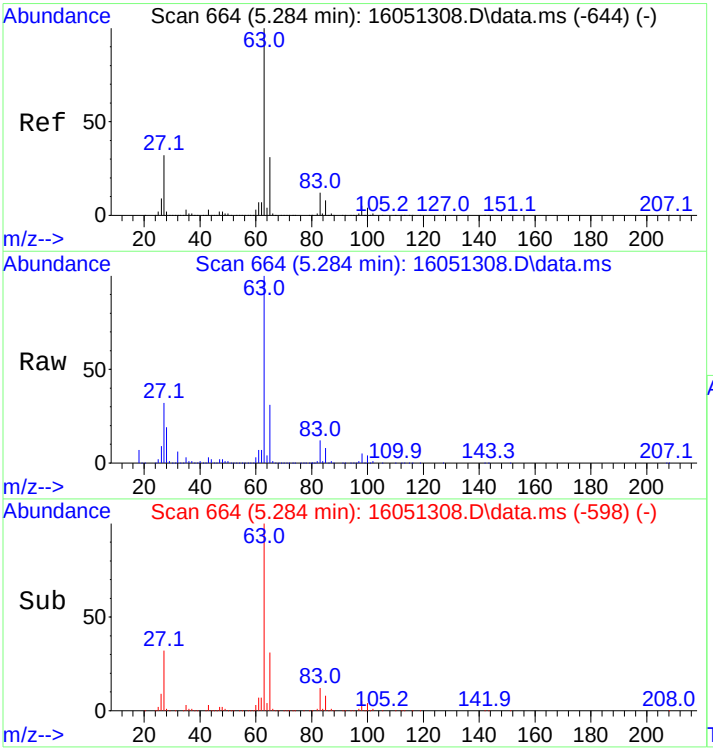


#13
trans,1,2-Dichloroethene
Concen: 242.88 ng
RT: 4.509 min Scan# 561
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 61 Resp: 263184

Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.2	75.4

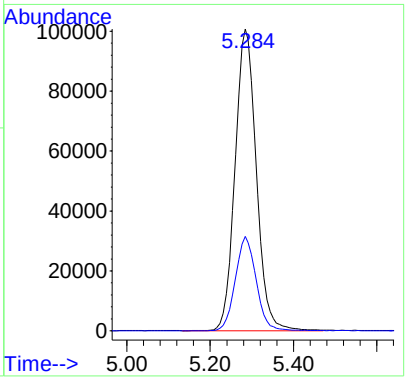


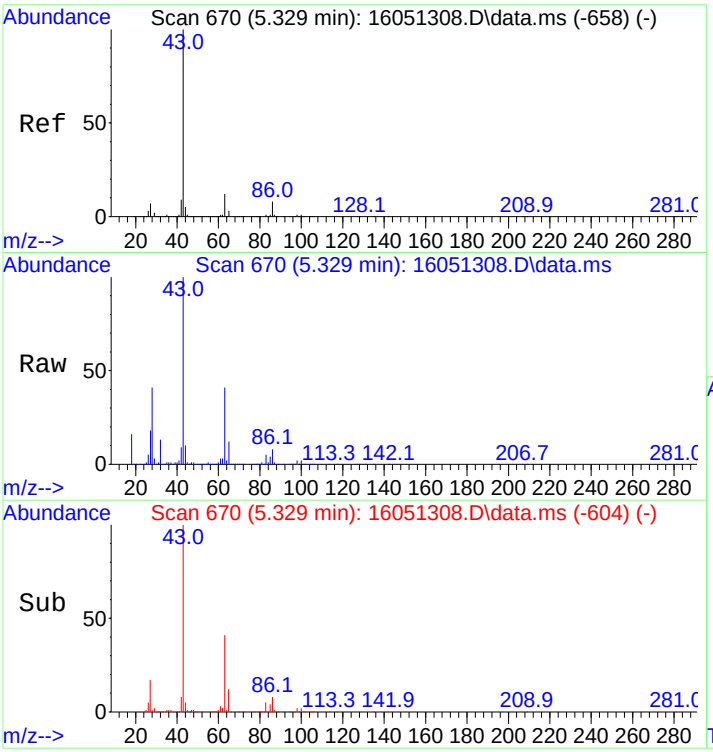


#14
1,1-Dichloroethane
Concen: 265.58 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 63 Resp: 356930

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0

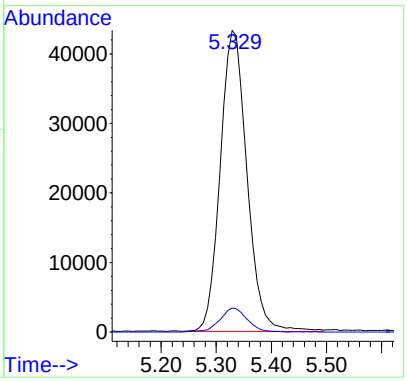


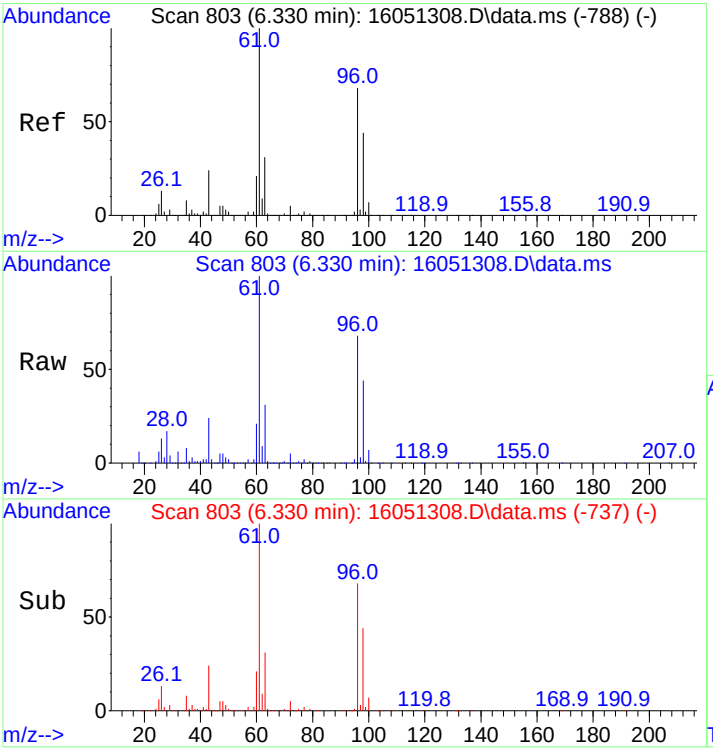


#15
Vinyl Acetate
Concen: 213.11 ng
RT: 5.329 min Scan# 670
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 145935

Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8

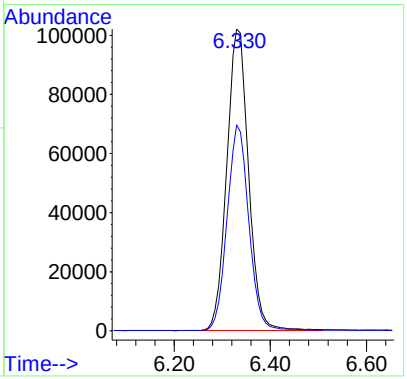


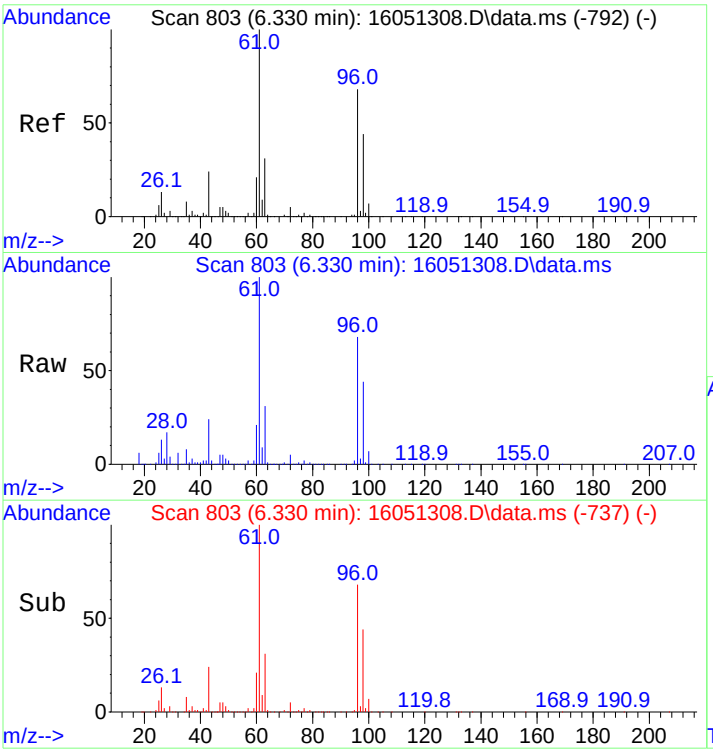


#16
cis,1,2-Dichloroethene
Concen: 255.89 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 61 Resp: 321362

Ion	Ratio	Lower	Upper
61	100		
96	68.2	54.6	81.8

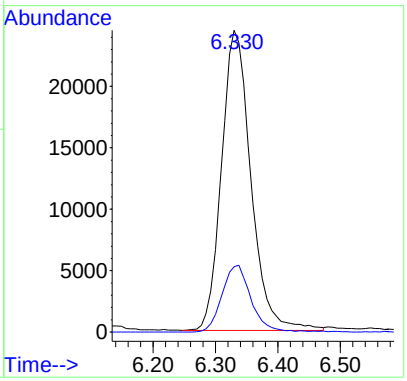


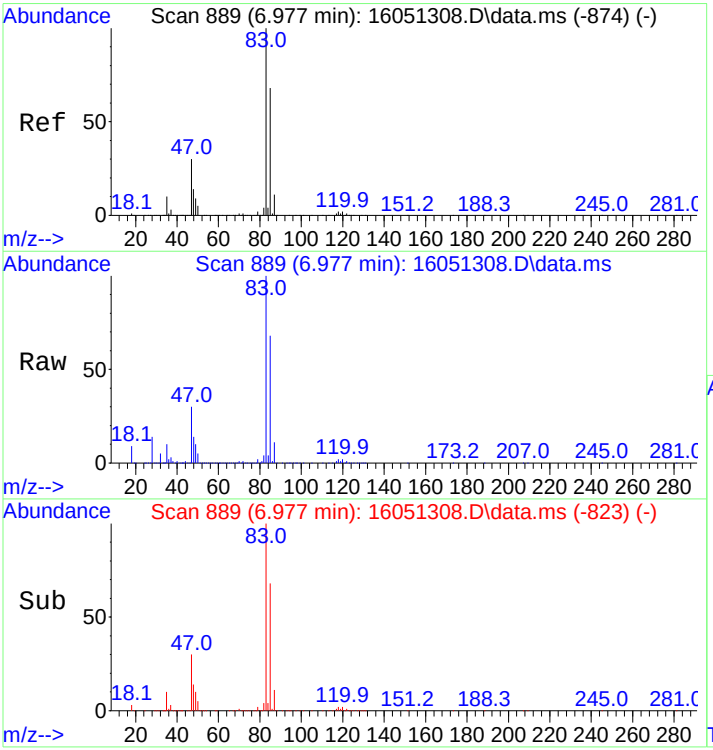


#17
2-Butanone
Concen: 184.25 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 80037

Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.4	26.2

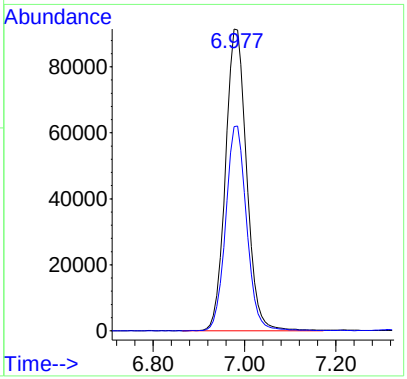


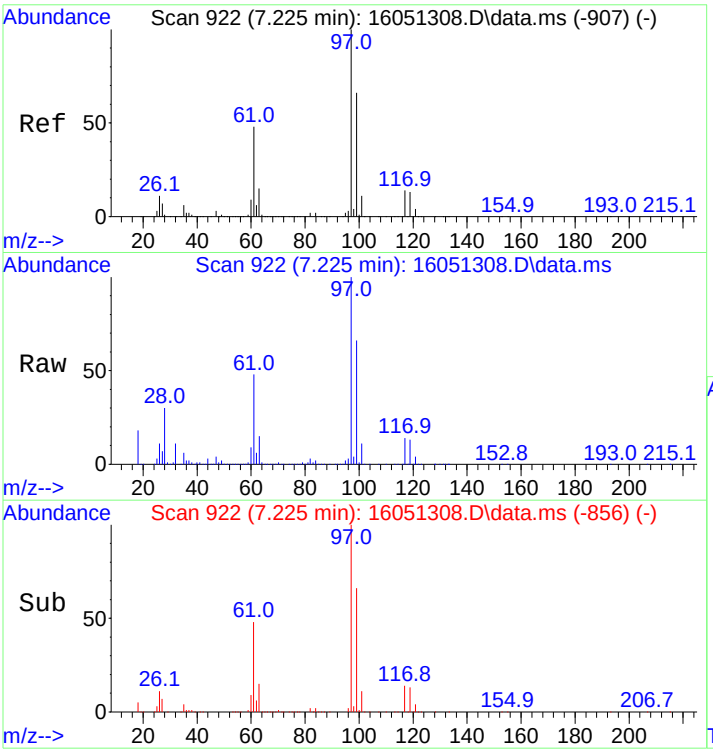


#18
Chloroform
Concen: 232.93 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 293674

Ion	Ratio	Lower	Upper
83	100		
85	67.4	53.9	80.9

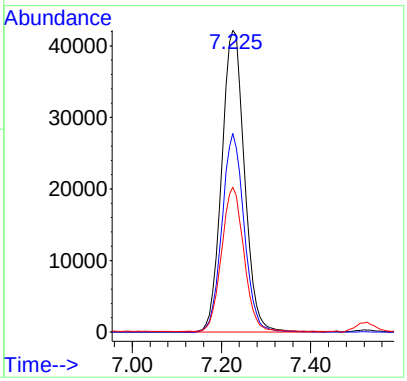


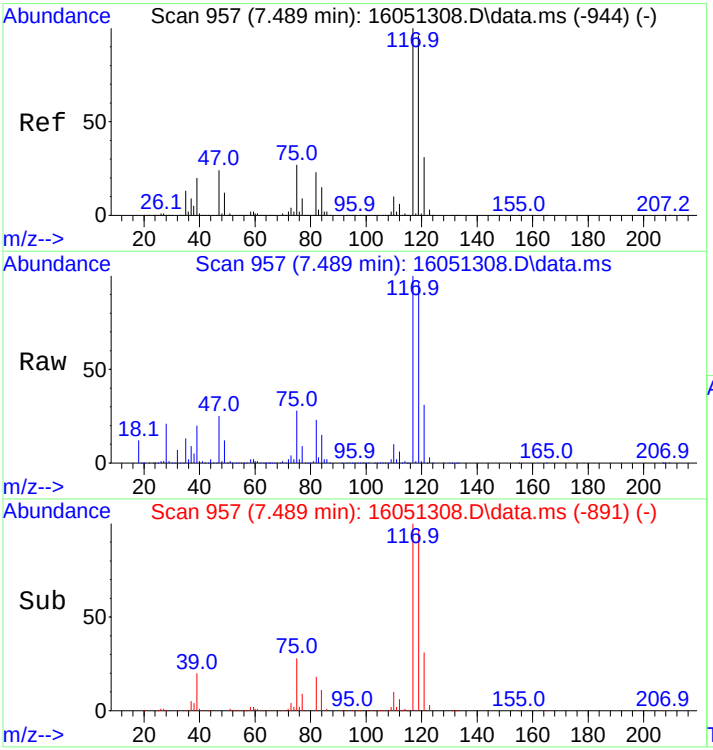


#19
1,1,1-Trichloroethane
Concen: 207.12 ng
RT: 7.225 min Scan# 922
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 97 Resp: 149324

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	47.0	37.6	56.4

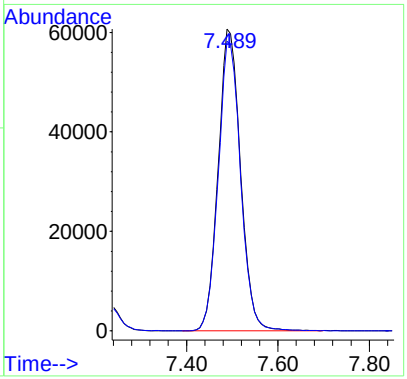


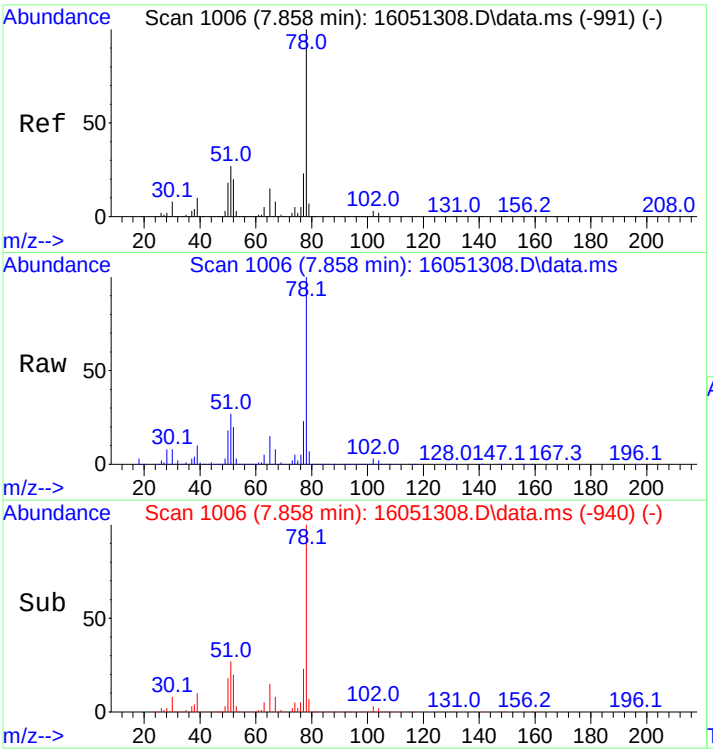


#22
Carbon Tetrachloride
Concen: 239.10 ng
RT: 7.489 min Scan# 957
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:117 Resp: 205944

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.0	115.4

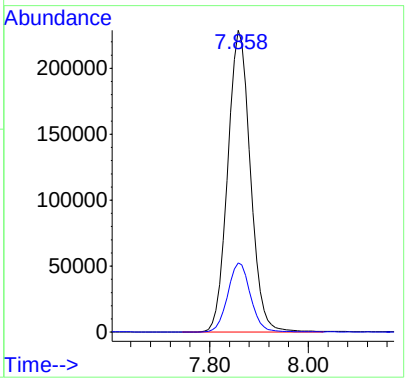


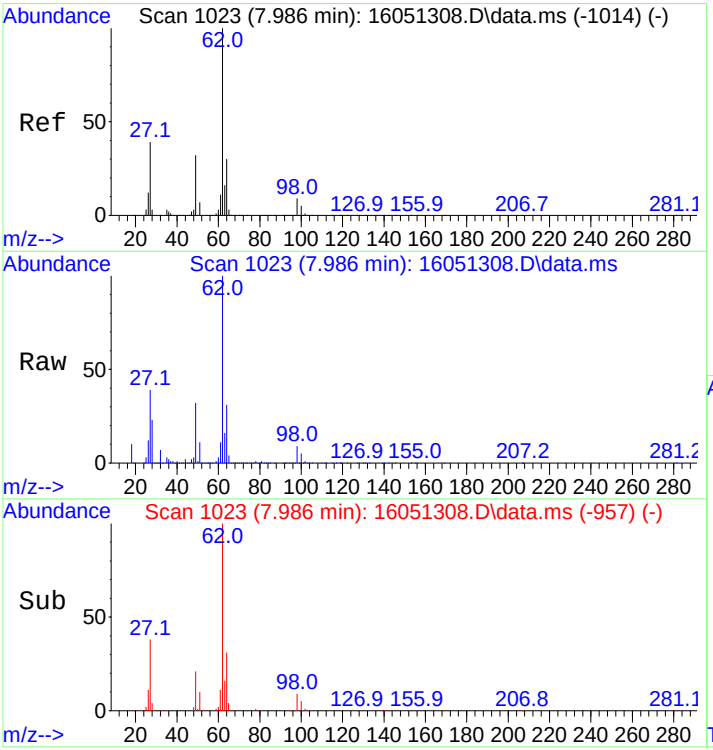


#23
Benzene
Concen: 223.63 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 78 Resp: 729923

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

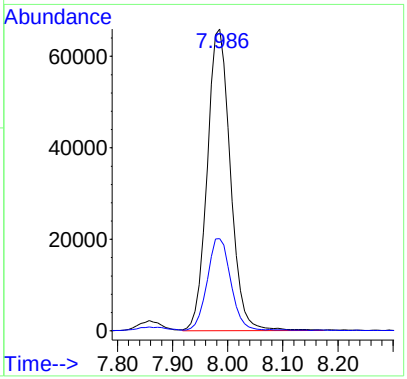


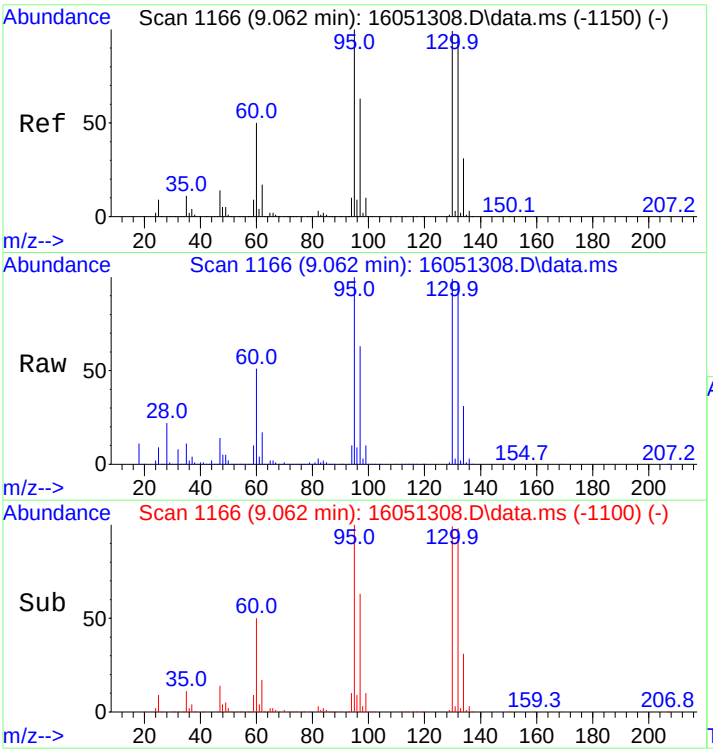


#24
1,2-Dichloroethane
Concen: 207.54 ng
RT: 7.986 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 62 Resp: 193918

Ion	Ratio	Lower	Upper
62	100		
64	31.0	24.8	37.2

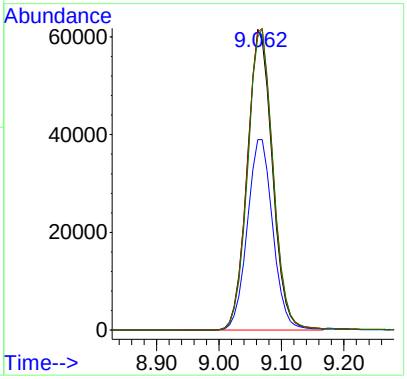


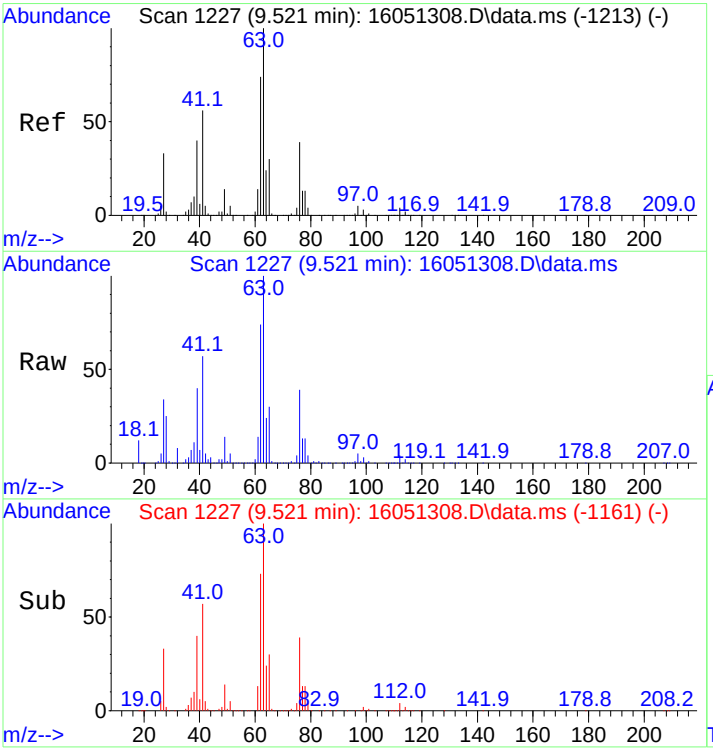


#25
Trichloroethene
Concen: 235.34 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 95 Resp: 172206

Ion	Ratio	Lower	Upper
95	100		
97	64.8	51.8	77.8
130	102.4	81.9	122.9
132	101.5	81.2	121.8

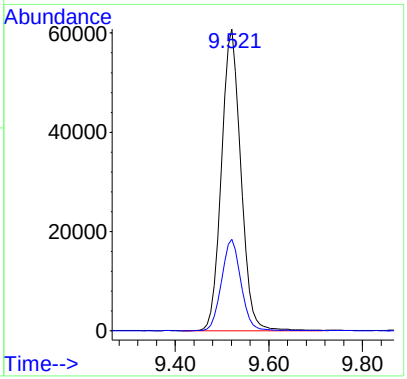


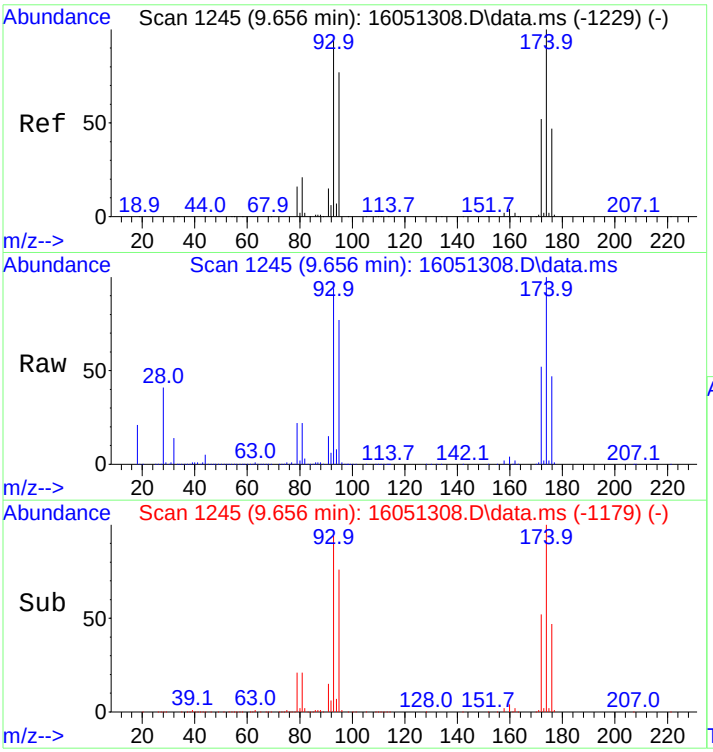


#26
1,2-Dichloropropane
Concen: 233.80 ng
RT: 9.521 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 63 Resp: 174919

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.2	36.2

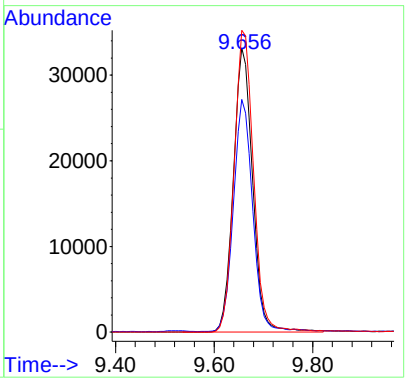


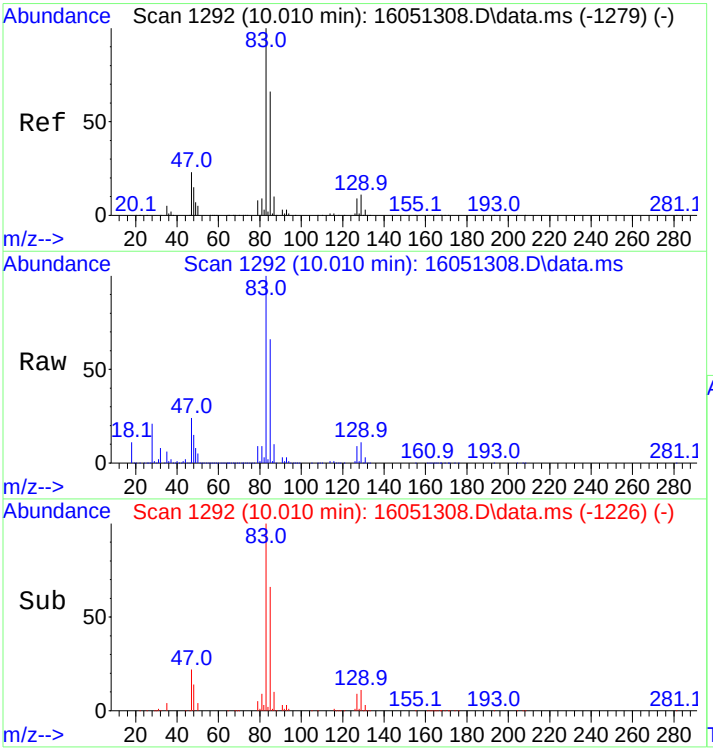


#27
Dibromomethane
Concen: 215.54 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 93 Resp: 90324

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	106.9	85.5	128.3

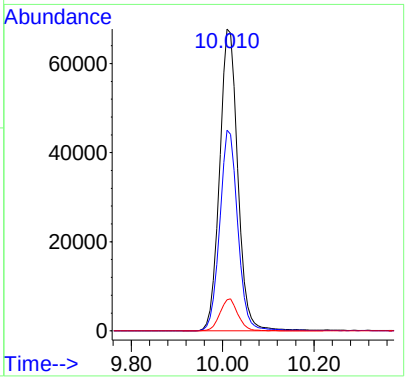


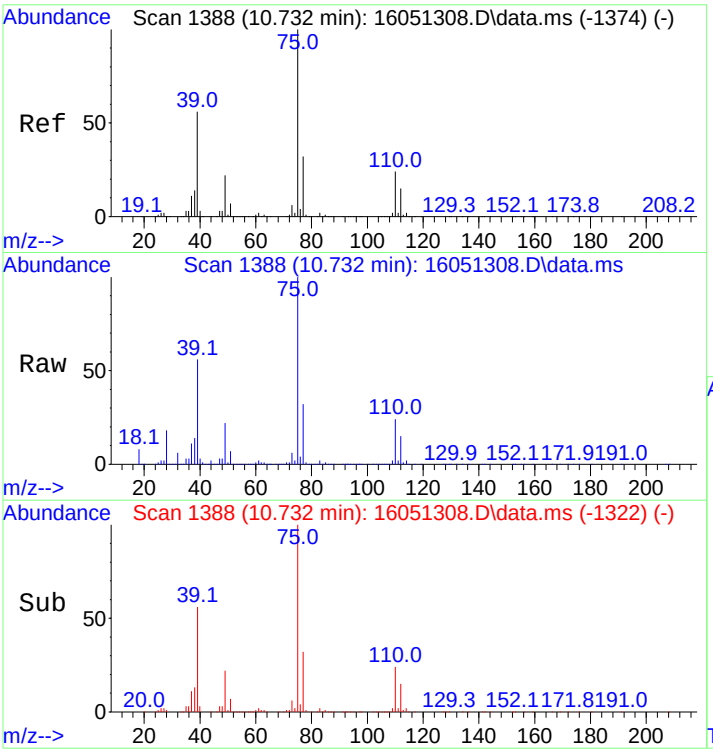


#28
Bromodichloromethane
Concen: 230.23 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 187556

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
87	10.4	8.3	12.5

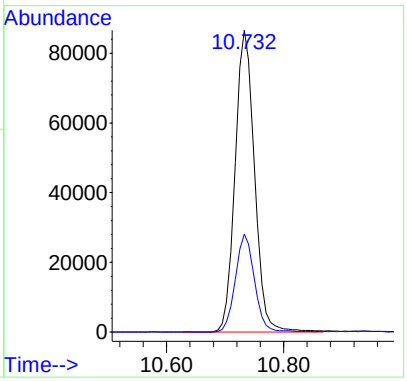


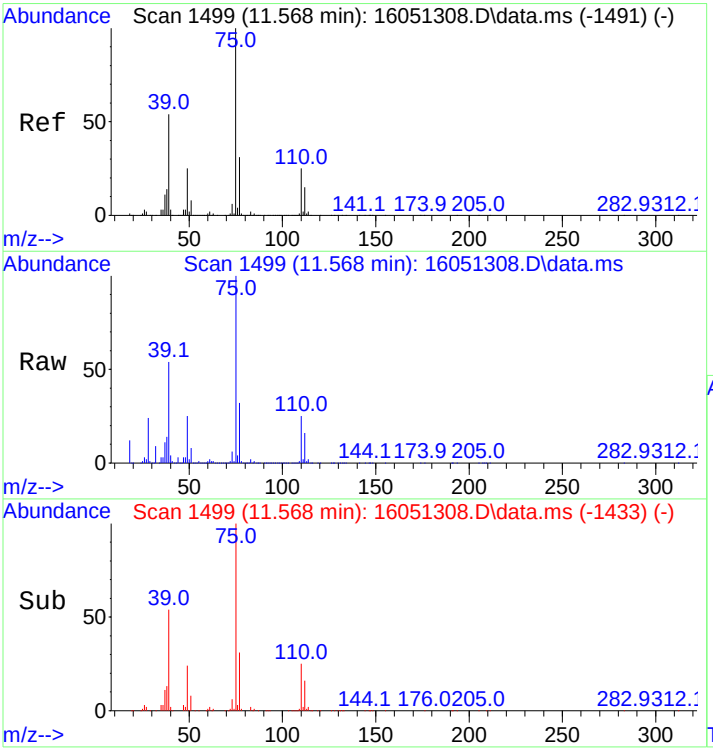


#29
cis,1,3-Dichloropropene
Concen: 238.58 ng
RT: 10.732 min Scan# 1388
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 199114

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.6	38.4

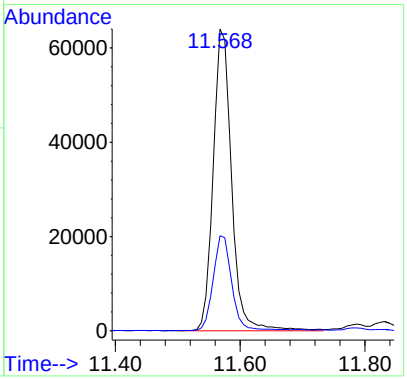


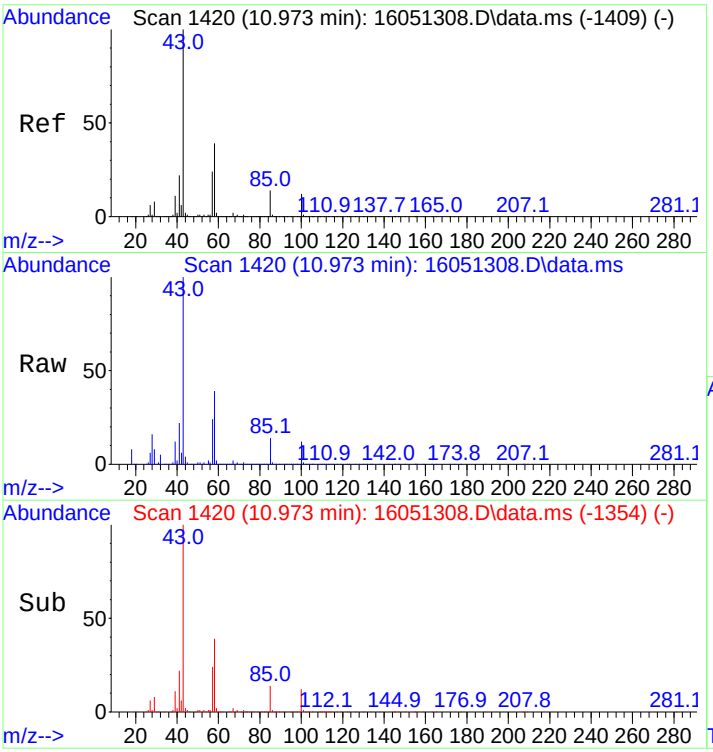


#30
trans,1,3-Dichloropropene
Concen: 231.21 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 131241

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0

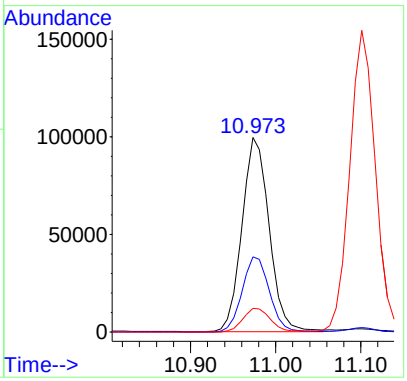


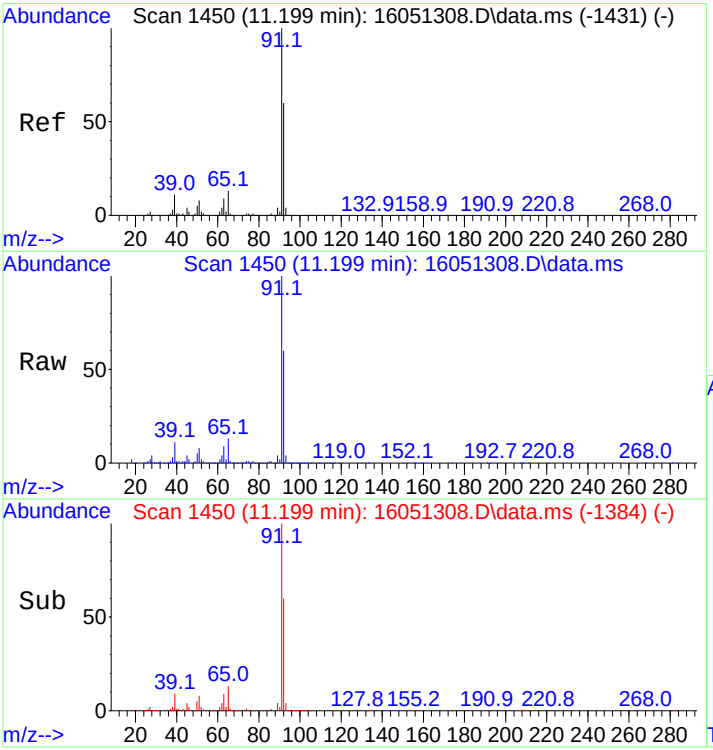


#31
4-Methyl-2-Pentanone
Concen: 200.74 ng
RT: 10.973 min Scan# 1420
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 221162

Ion	Ratio	Lower	Upper
43	100		
58	39.1	31.3	46.9
100	12.7	10.2	15.2

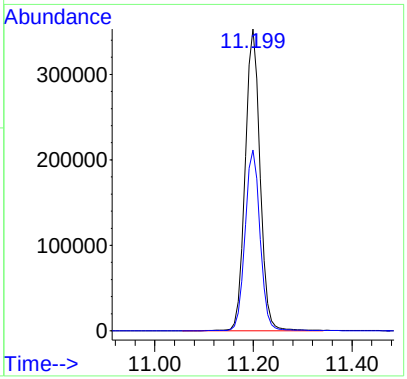


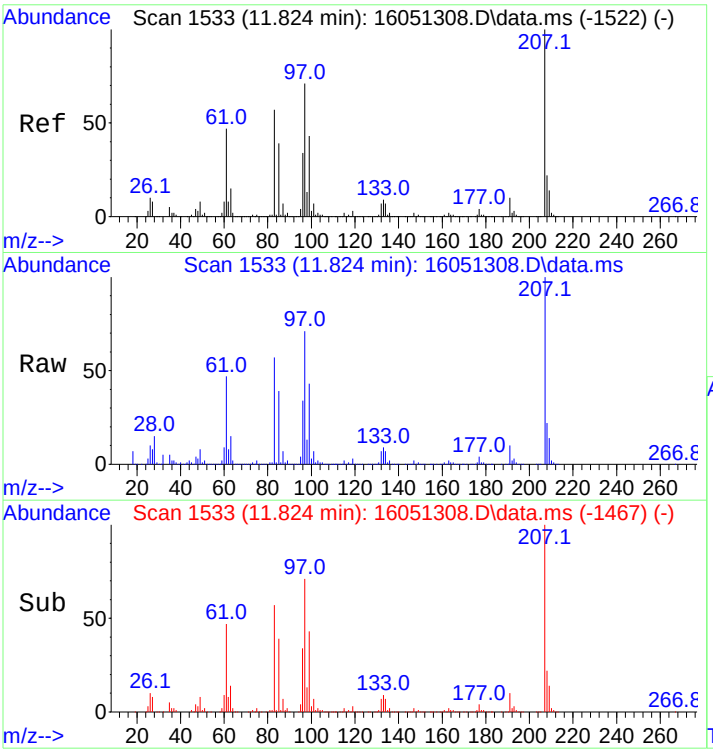


#33
Toluene
Concen: 234.75 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 739128

Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.6	73.0

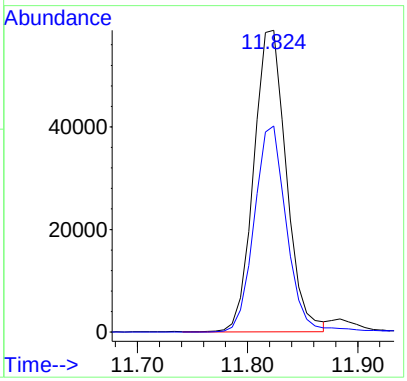


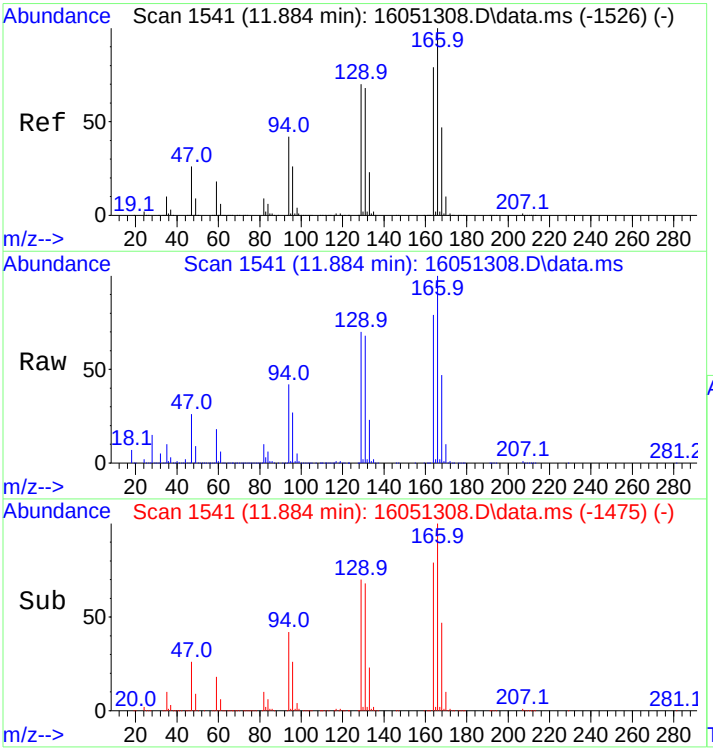


#34
1,1,2-Trichloroethane
Concen: 221.52 ng
RT: 11.824 min Scan# 1533
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 120538

Ion	Ratio	Lower	Upper
83	100		
85	68.4	54.7	82.1

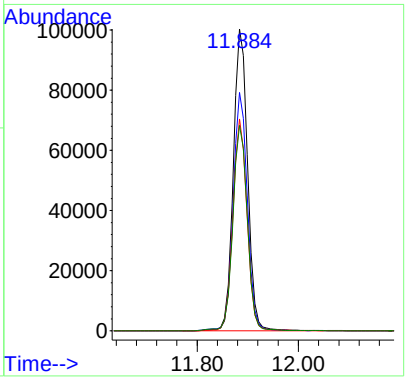


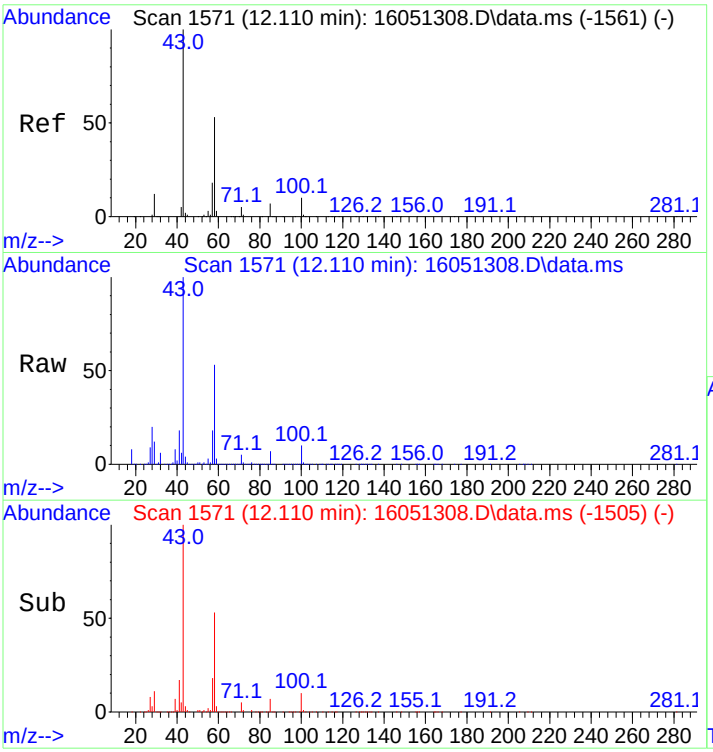


#35
Tetrachloroethene
Concen: 239.59 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:166 Resp: 197569

Ion	Ratio	Lower	Upper
166	100		
164	79.0	63.2	94.8
129	69.4	55.5	83.3
131	69.0	55.2	82.8

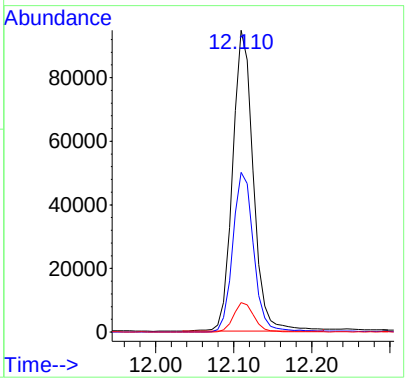


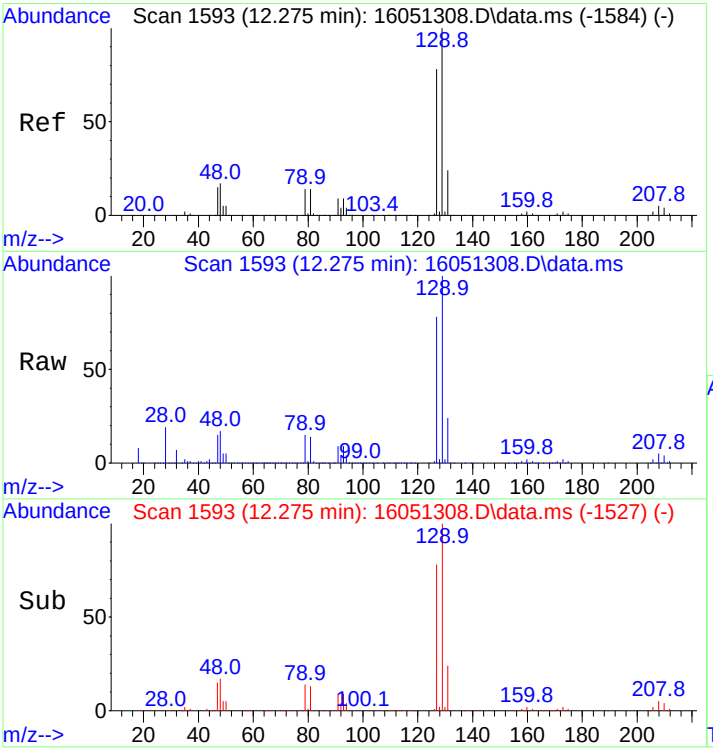


#36
2-Hexanone
Concen: 216.68 ng
RT: 12.110 min Scan# 1571
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 43 Resp: 175023

Ion	Ratio	Lower	Upper
43	100		
58	54.5	43.6	65.4
100	9.8	7.8	11.8

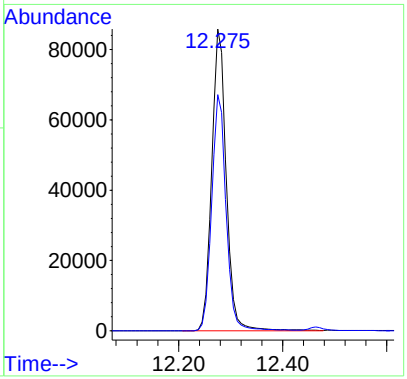


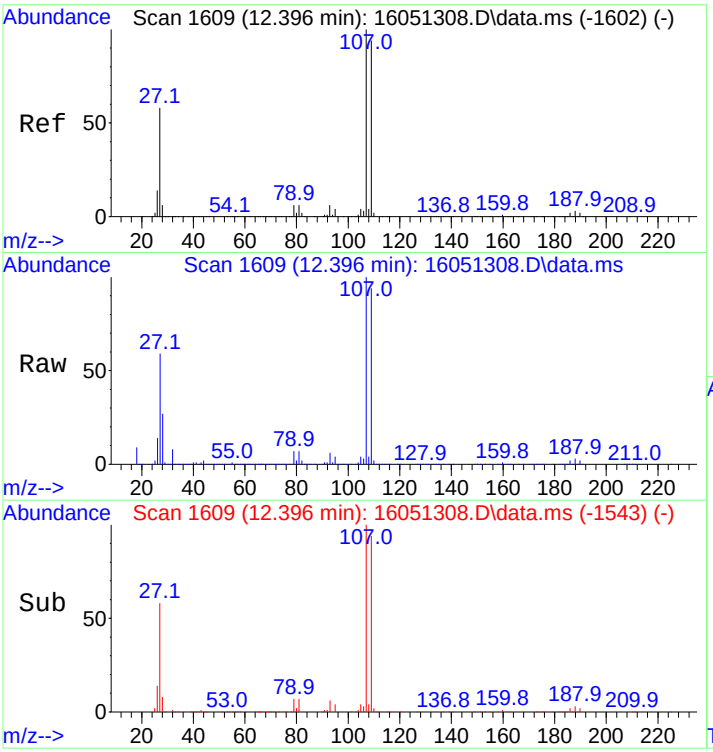


#37
Chlorodibromomethane
Concen: 225.18 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:129 Resp: 166191

Ion	Ratio	Lower	Upper
129	100		
127	77.9	62.3	93.5

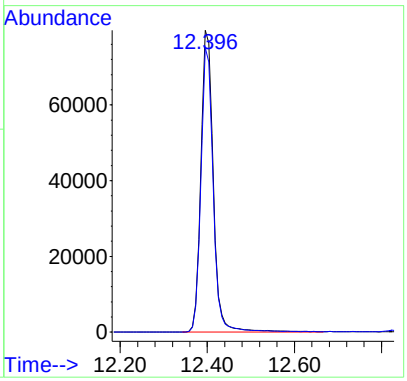


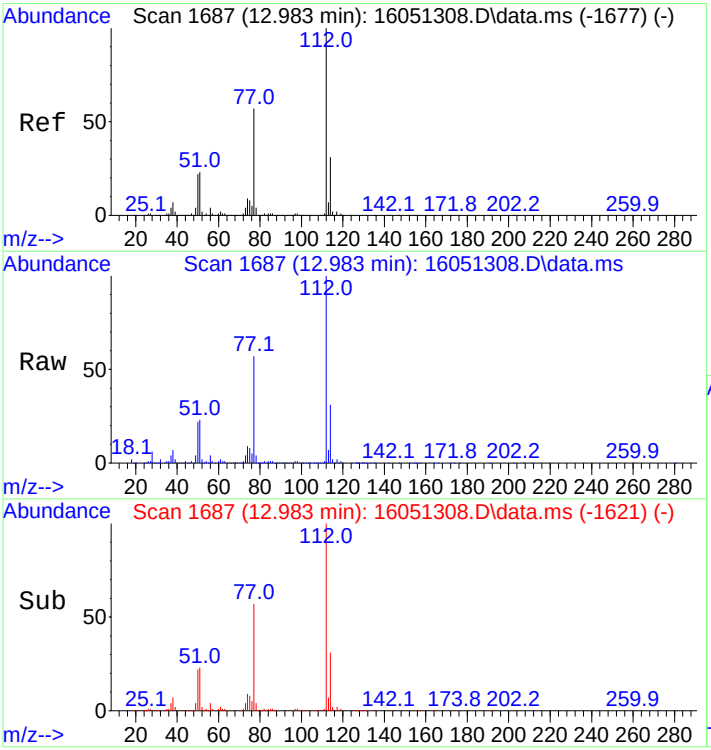


#38
Ethylene Dibromide
Concen: 234.71 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:107 Resp: 158122

Ion	Ratio	Lower	Upper
107	100		
109	92.9	74.3	111.5

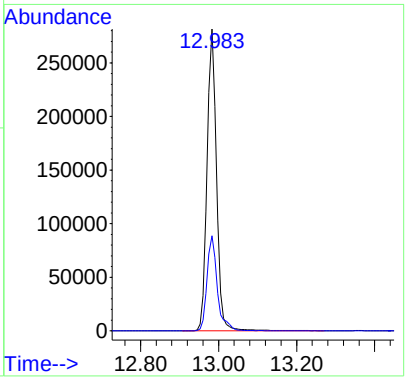


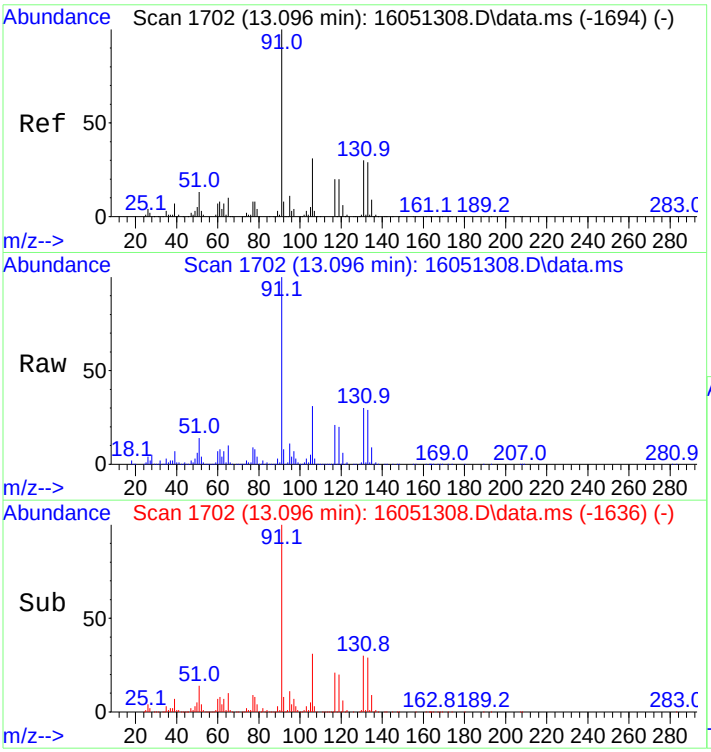


#39
Chlorobenzene
Concen: 244.06 ng
RT: 12.983 min Scan# 1687
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:112 Resp: 472182

Ion	Ratio	Lower	Upper
112	100		
114	34.4	27.5	41.3

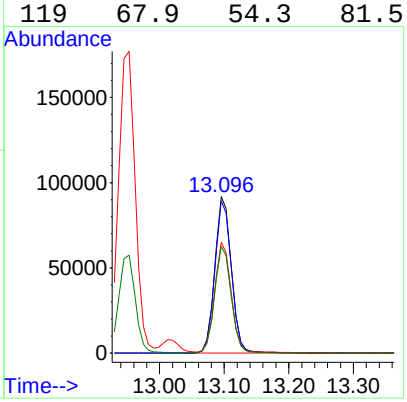


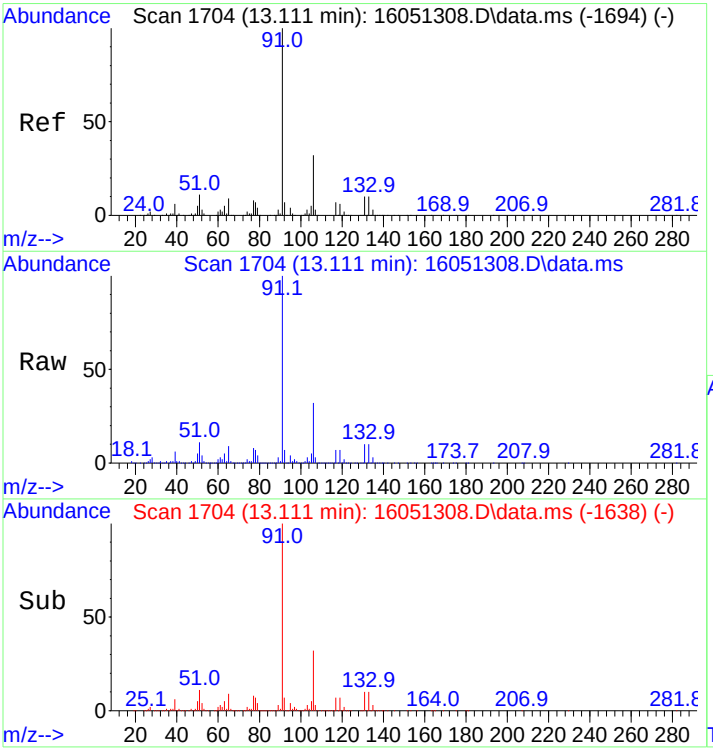


#40
1,1,1,2-Tetrachloroethane
Concen: 238.16 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:131 Resp: 163531

Ion	Ratio	Lower	Upper
131	100		
133	97.2	77.8	116.6
117	71.4	57.1	85.7
119	67.9	54.3	81.5

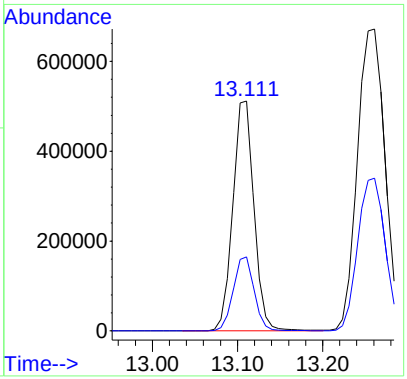


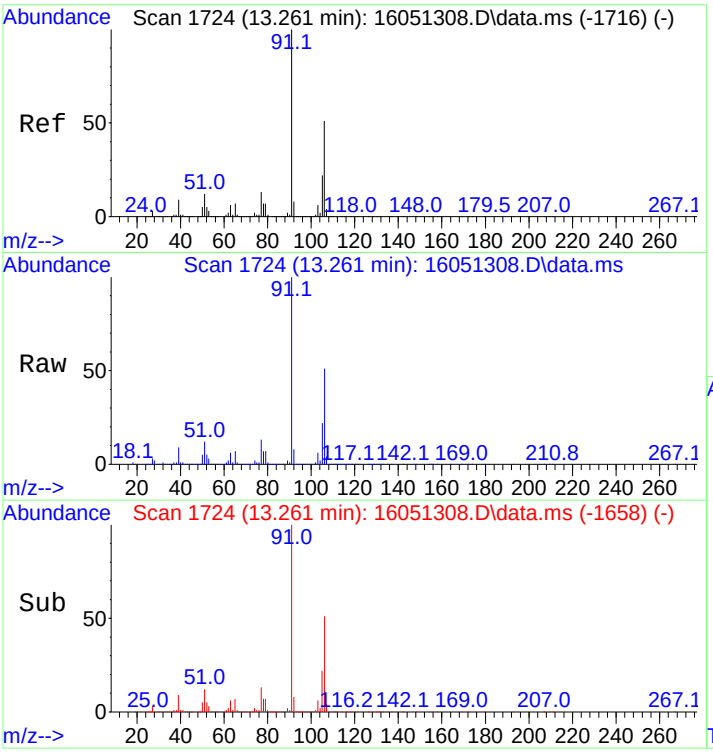


#41
Ethylbenzene
Concen: 247.23 ng
RT: 13.111 min Scan# 1704
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 884304

Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.5	38.3

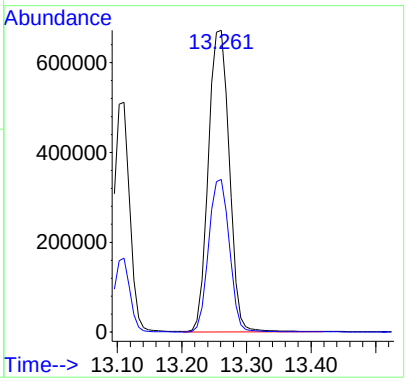


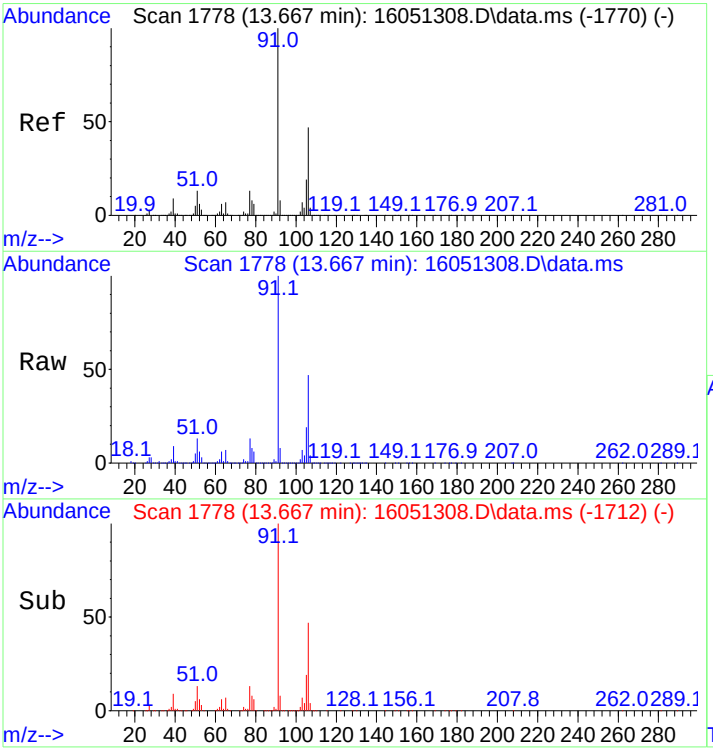


#42
M&P-Xylene
Concen: 499.88 ng
RT: 13.261 min Scan# 1724
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 1520389

Ion	Ratio	Lower	Upper
91	100		
106	50.5	40.4	60.6

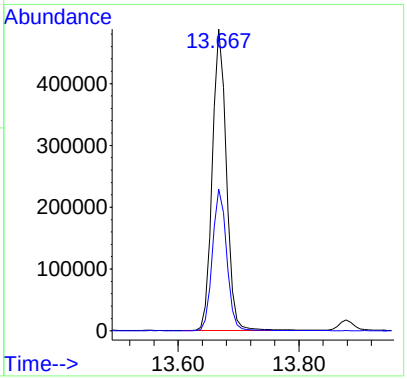


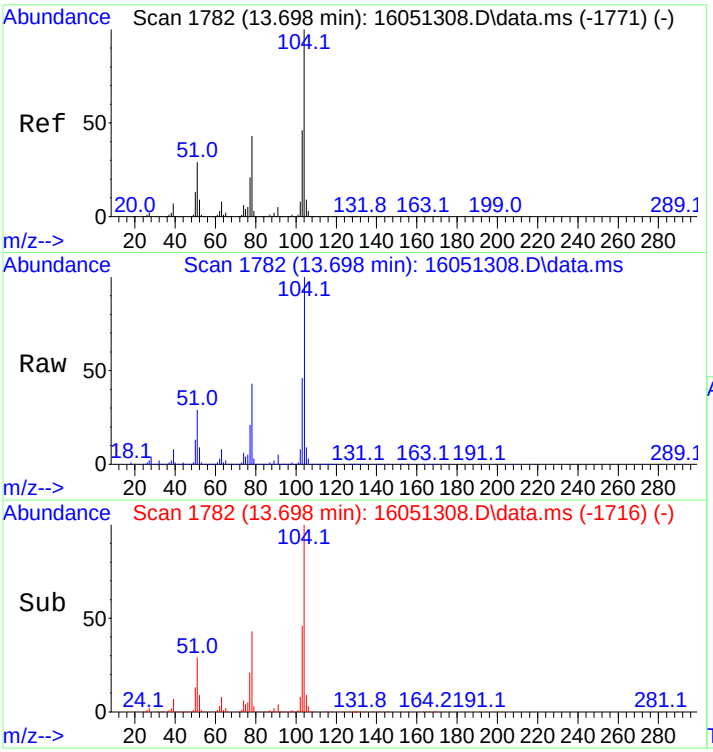


#43
O-Xylene
Concen: 249.16 ng
RT: 13.667 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 785622

Ion	Ratio	Lower	Upper
91	100		
106	47.7	38.2	57.2

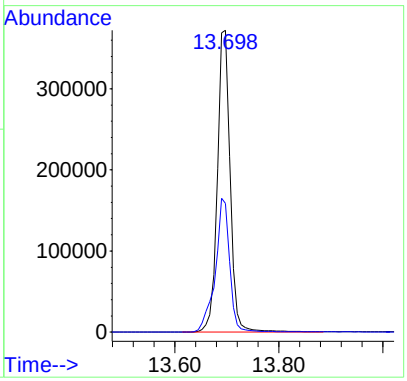


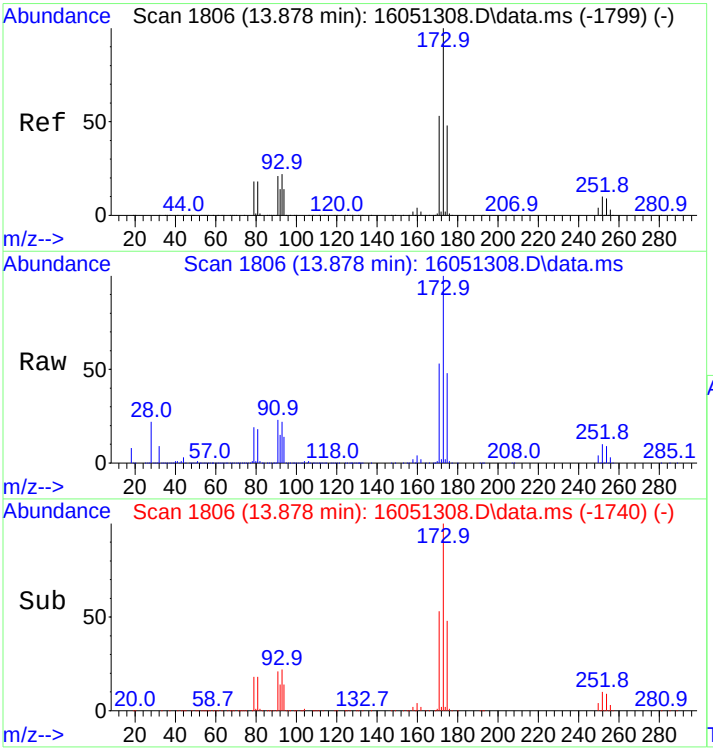


#44
Styrene
Concen: 236.36 ng
RT: 13.698 min Scan# 1782
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:104 Resp: 636165

Ion	Ratio	Lower	Upper
104	100		
78	49.7	39.8	59.6

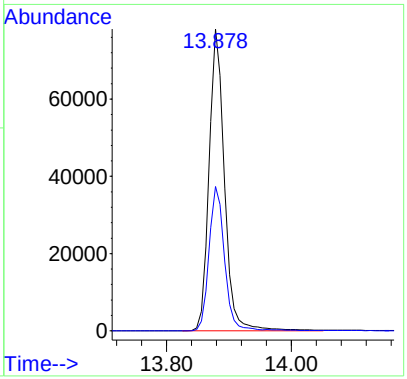


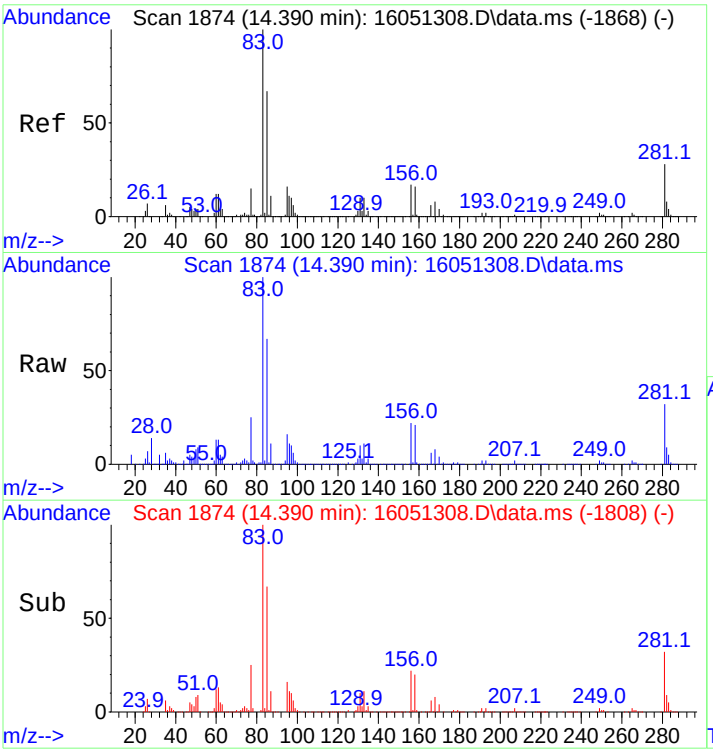


#45
Bromoform
Concen: 230.35 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:173 Resp: 133984

Ion	Ratio	Lower	Upper
173	100		
175	48.1	38.5	57.7

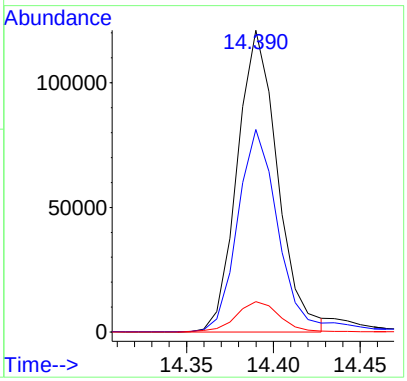


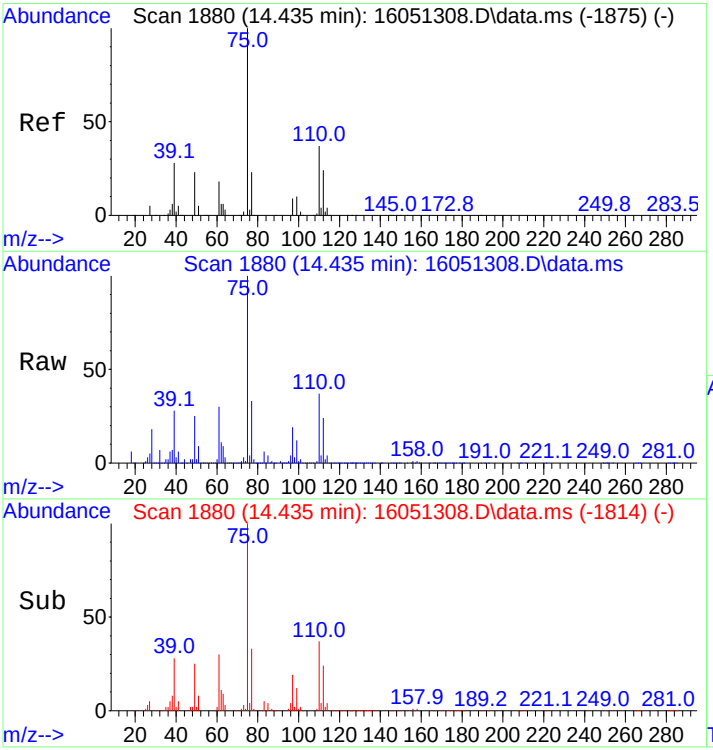


#46
1,1,2,2-Tetrachloroethane
Concen: 209.11 ng m
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 83 Resp: 195211

Ion	Ratio	Lower	Upper
83	100		
85	66.4	53.2	79.8
131	11.1	9.0	13.6

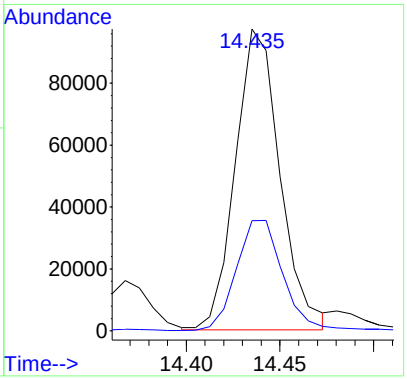


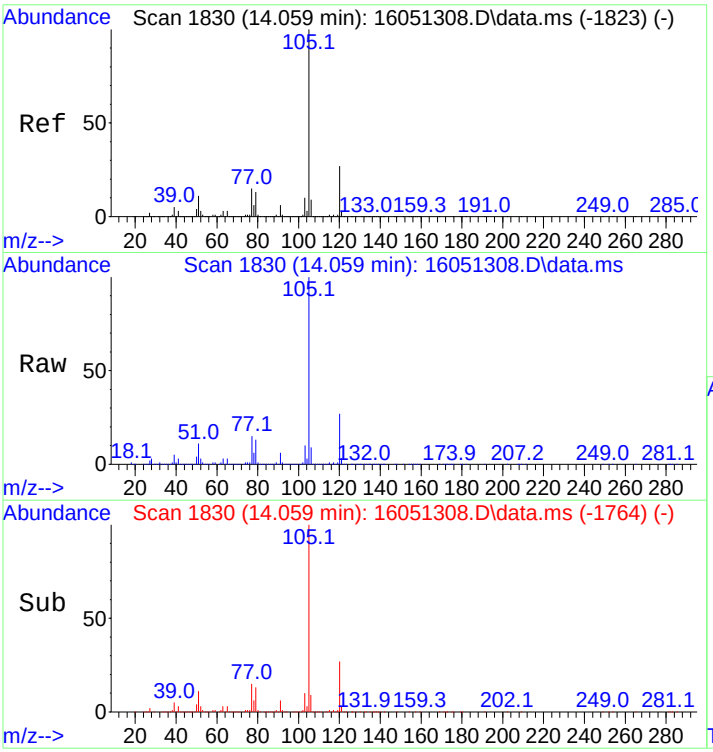


#47
1,2,3-Trichloropropane
Concen: 209.89 ng m
RT: 14.435 min Scan# 1880
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 161656

Ion	Ratio	Lower	Upper
75	100		
110	38.1	30.3	45.5

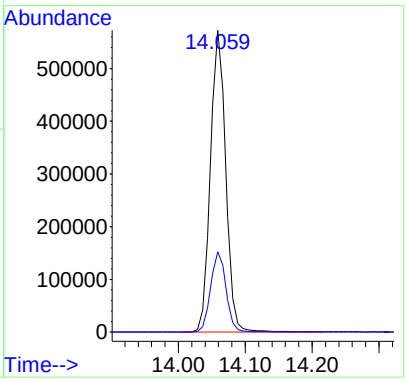


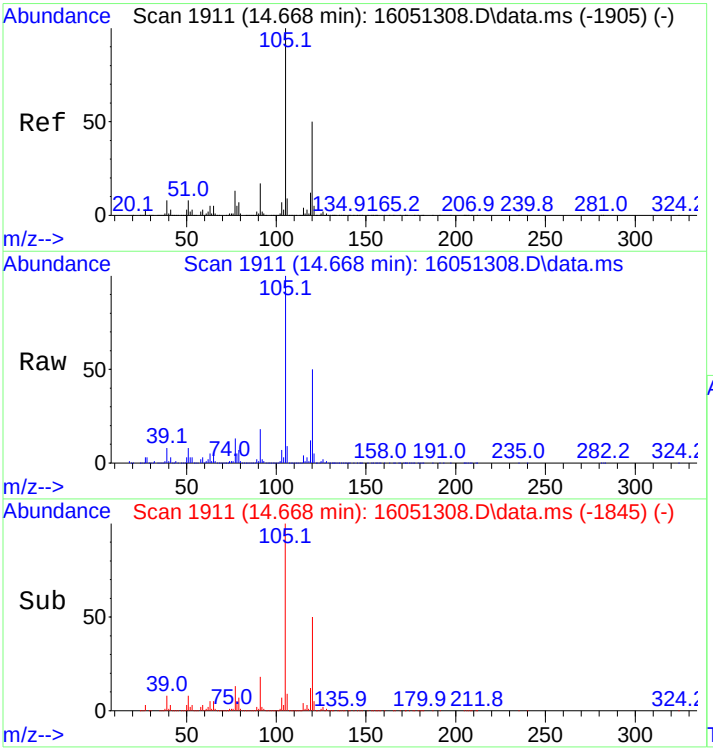


#51
Isopropylbenzene
Concen: 247.75 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 907900

Ion	Ratio	Lower	Upper
105	100		
120	26.8	21.4	32.2

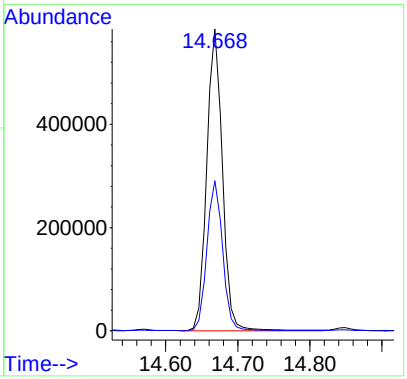


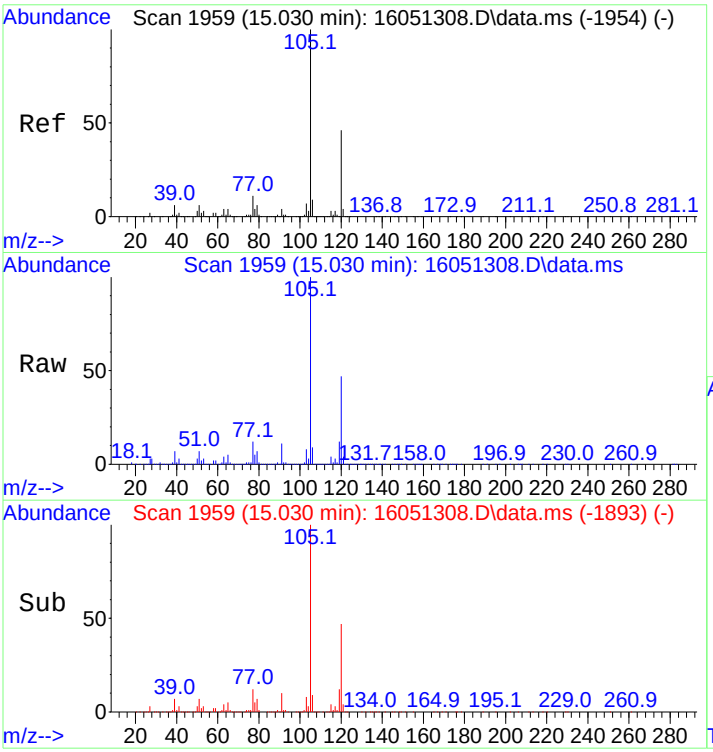


#52
1,3,5-Trimethylbenzene
Concen: 249.66 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 891620

Ion	Ratio	Lower	Upper
105	100		
120	49.9	39.9	59.9

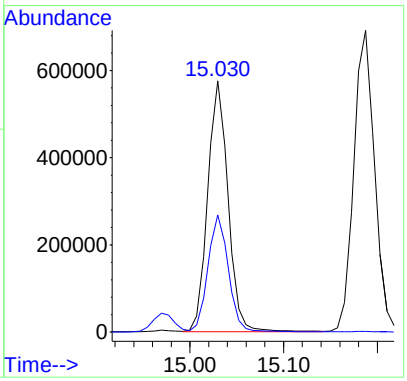


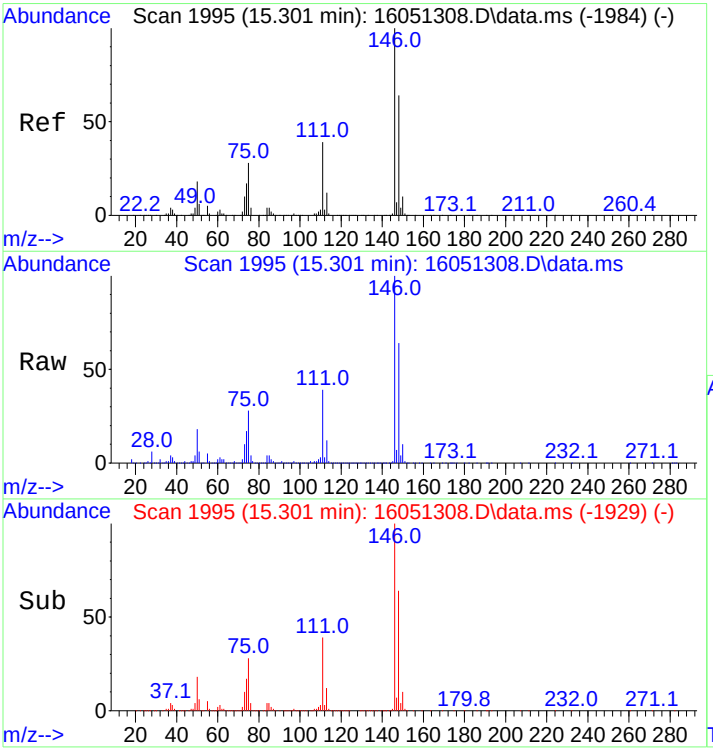


#53
1,2,4-Trimethylbenzene
Concen: 246.99 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 870962

Ion	Ratio	Lower	Upper
105	100		
120	46.9	37.5	56.3

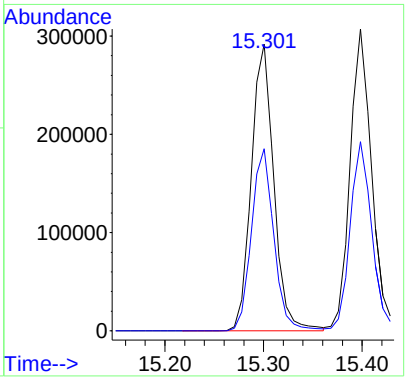


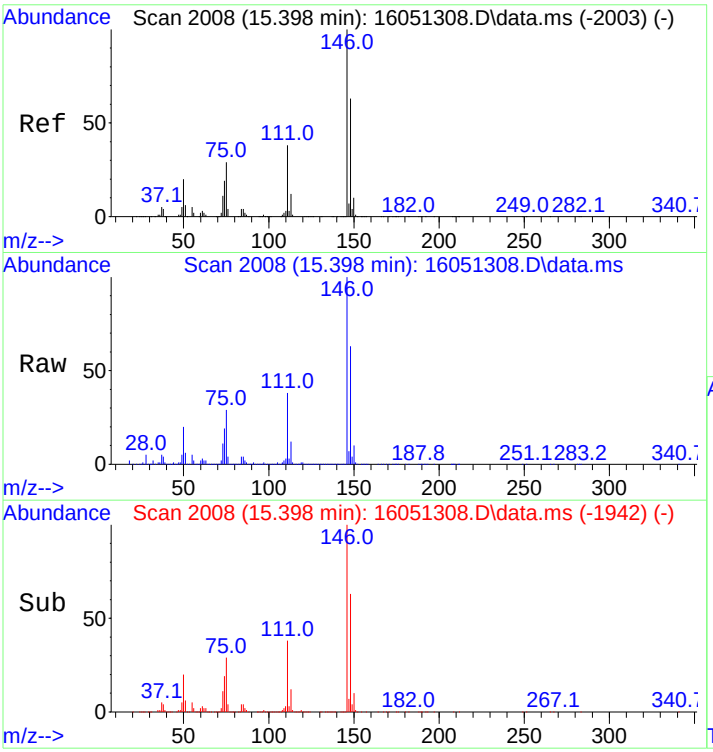


#54
1,3-Dichlorobenzene
Concen: 251.13 ng
RT: 15.301 min Scan# 1995
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:146 Resp: 462162

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	76.0

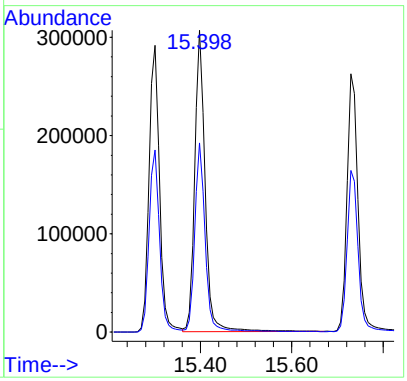


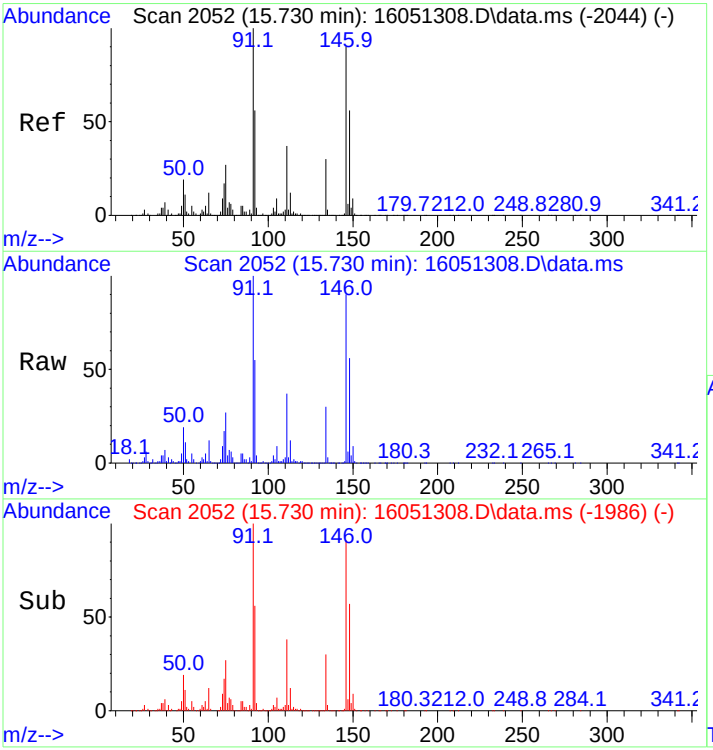


#55
1,4-Dichlorobenzene
Concen: 250.25 ng
RT: 15.398 min Scan# 2008
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:146 Resp: 486804

Ion	Ratio	Lower	Upper
146	100		
148	62.4	49.9	74.9

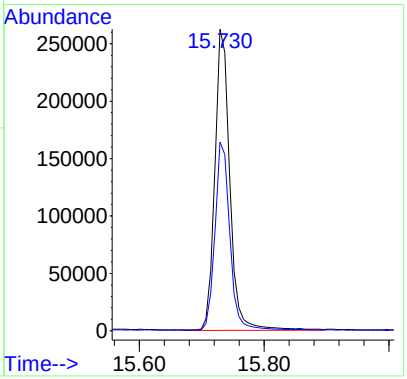


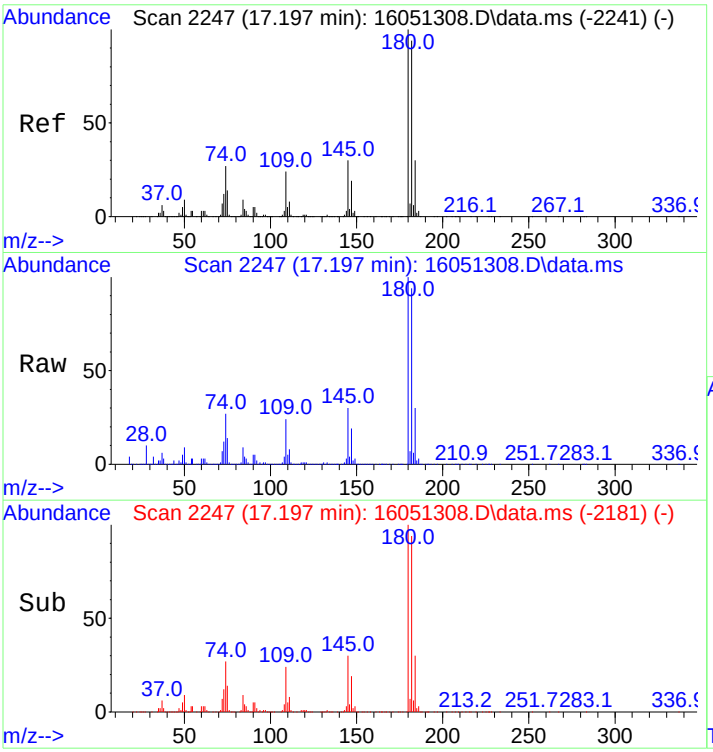


#56
1,2-Dichlorobenzene
Concen: 252.81 ng
RT: 15.730 min Scan# 2052
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:146 Resp: 440051

Ion	Ratio	Lower	Upper
146	100		
148	62.4	49.9	74.9

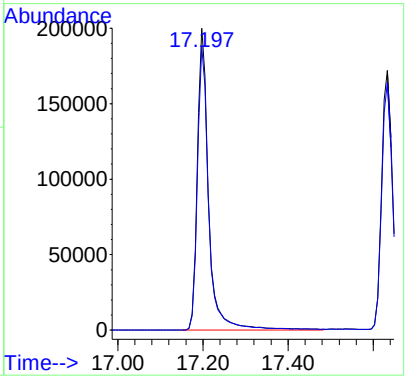


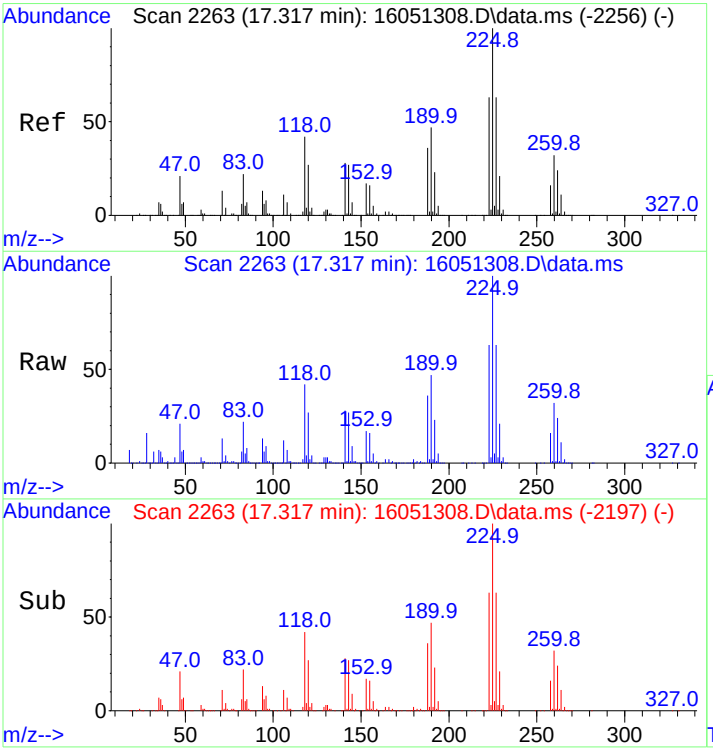


#57
1,2,4-Trichlorobenzene
Concen: 251.27 ng
RT: 17.197 min Scan# 2247
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:180 Resp: 370959

Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.0	112.4

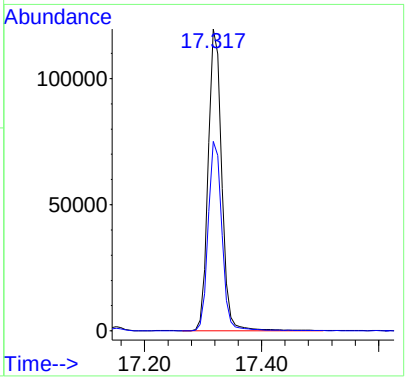


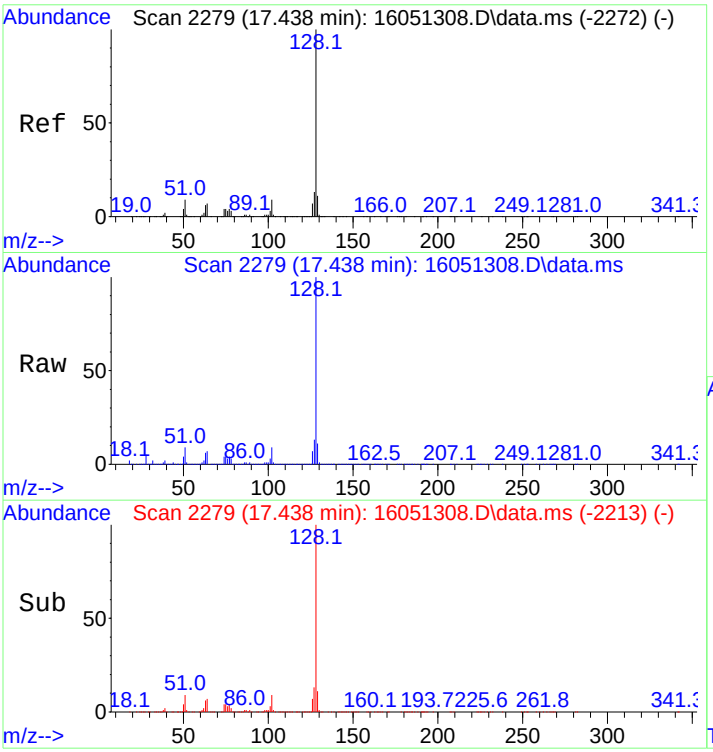


#58
Hexachlorobutadiene
Concen: 247.45 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:225 Resp: 192028

Ion	Ratio	Lower	Upper
225	100		
227	63.9	51.1	76.7

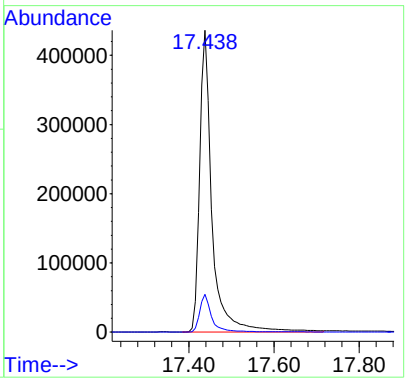


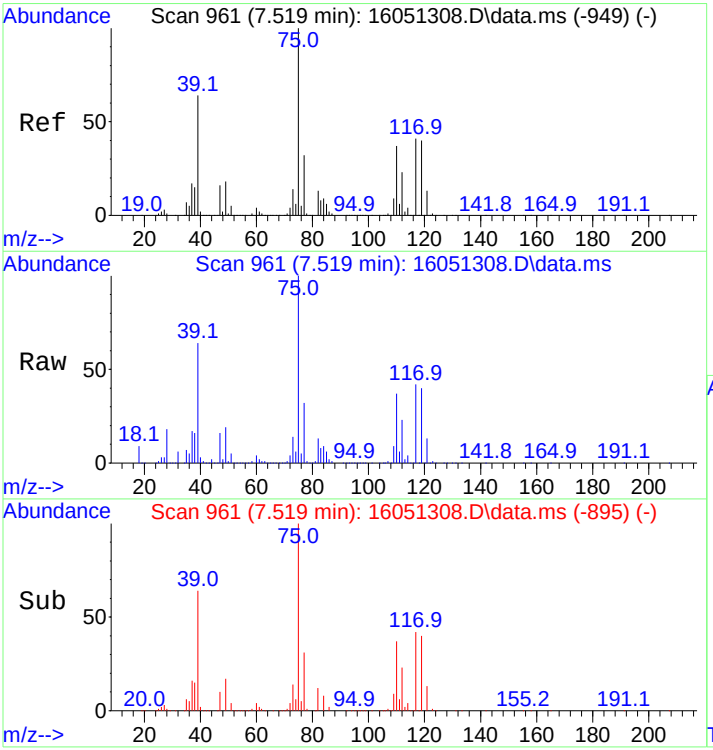


#59
Naphthalene
Concen: 244.23 ng
RT: 17.438 min Scan# 2279
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:128 Resp: 885021

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

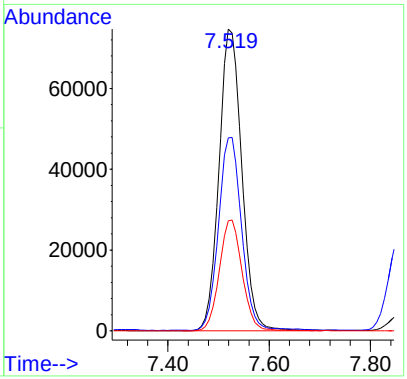


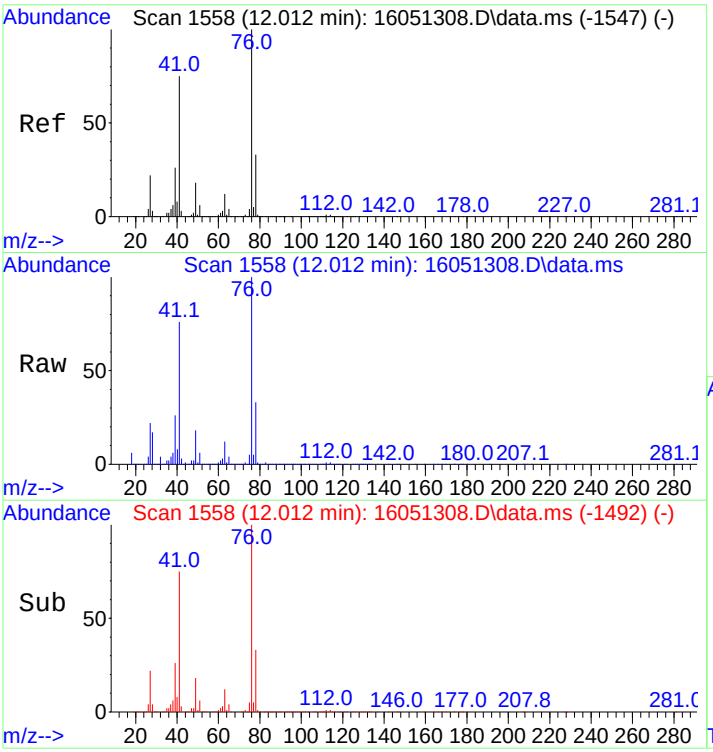


#60
1,1-Dichloropropene
Concen: 232.80 ng
RT: 7.519 min Scan# 961
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 75 Resp: 234864

Ion	Ratio	Lower	Upper
75	100		
39	64.7	51.7	77.5
110	36.6	29.3	43.9

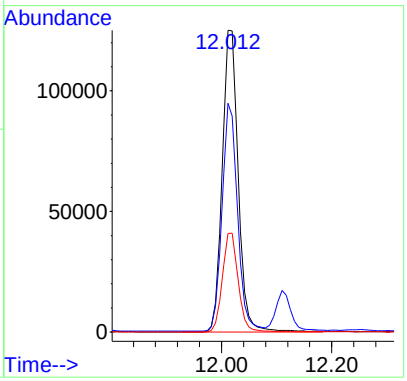


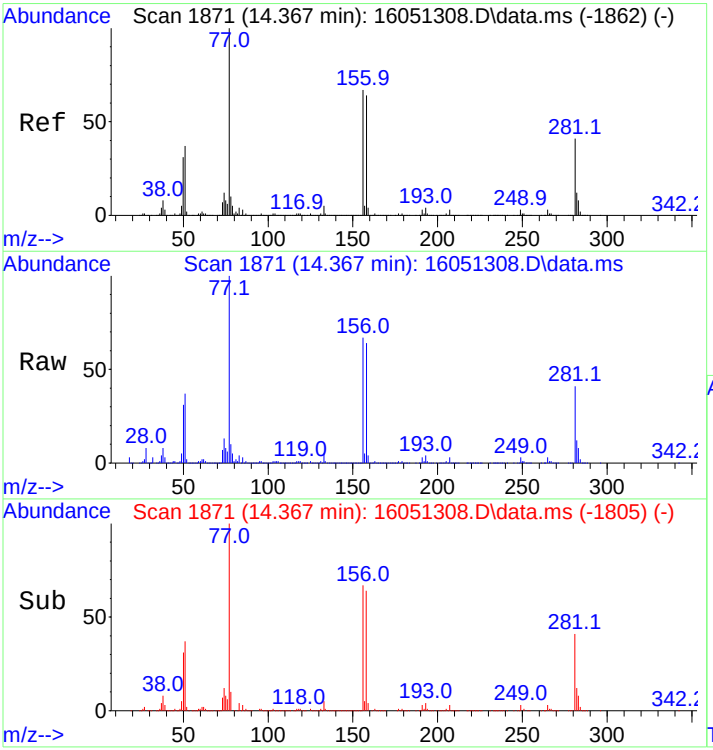


#61
1,3-Dichloropropane
Concen: 223.96 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 76 Resp: 252001

Ion	Ratio	Lower	Upper
76	100		
41	72.8	58.2	87.4
78	32.6	26.1	39.1

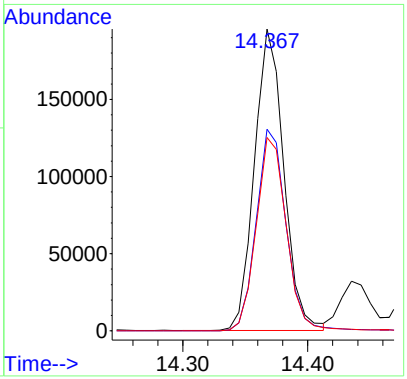


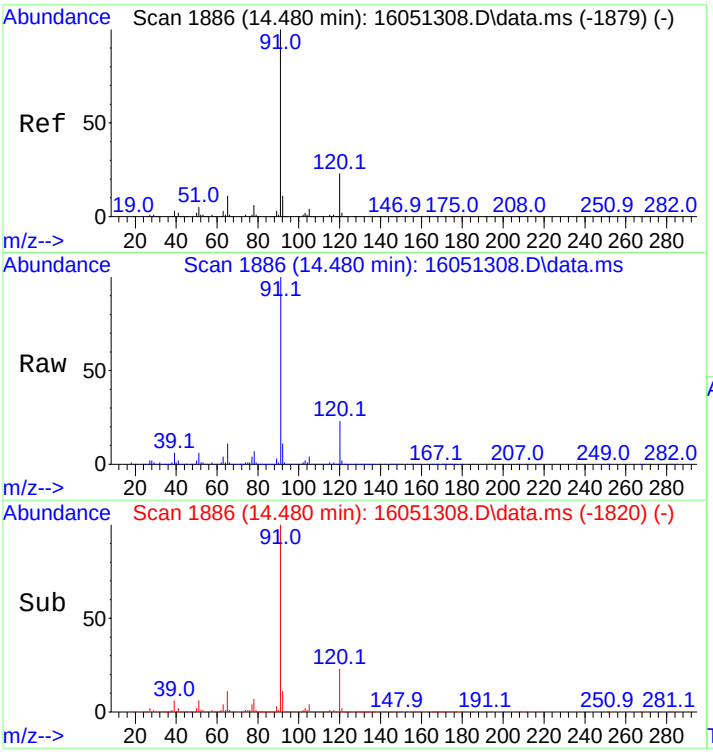


#62
Bromobenzene
Concen: 244.82 ng
RT: 14.367 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 77 Resp: 319277

Ion	Ratio	Lower	Upper
77	100		
156	68.7	55.0	82.4
158	66.6	53.3	79.9

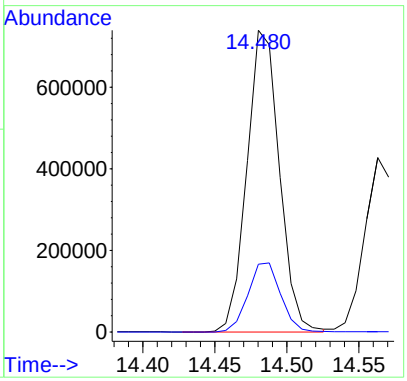


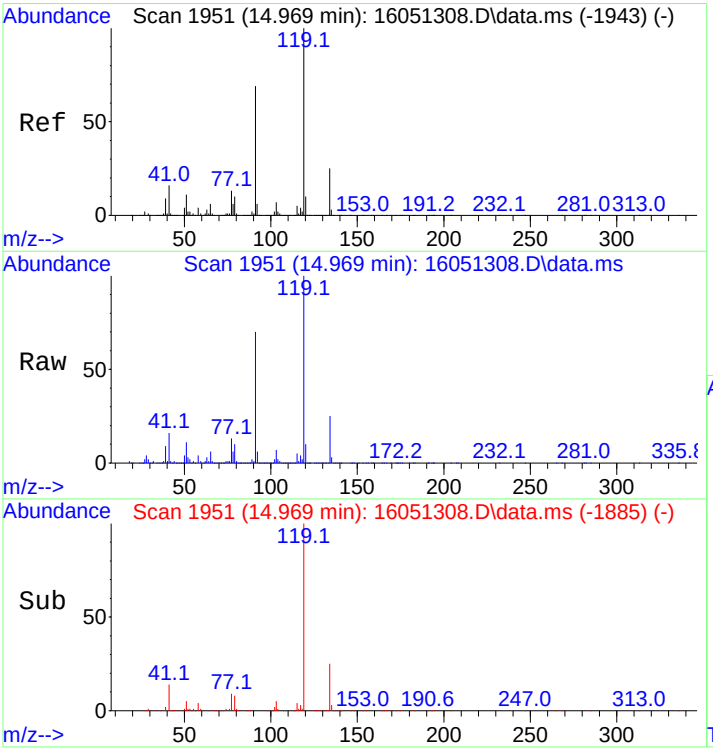


#63
n-Propylbenzene
Concen: 249.15 ng
RT: 14.480 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 1155459

Ion	Ratio	Lower	Upper
91	100		
120	23.3	18.6	28.0

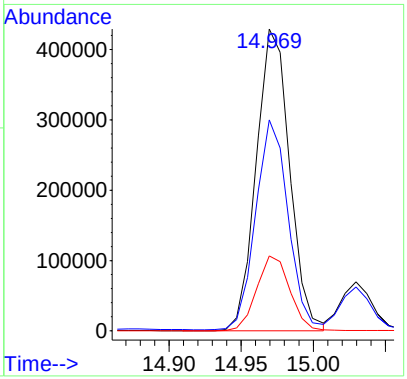


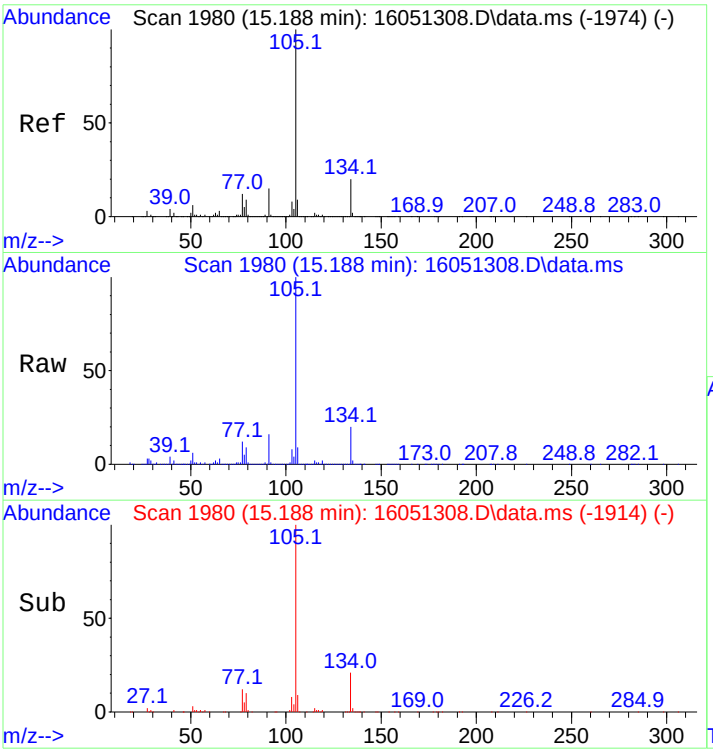


#64
tert-Butylbenzene
Concen: 248.53 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:119 Resp: 689974

Ion	Ratio	Lower	Upper
119	100		
91	67.5	54.0	81.0
134	24.9	19.9	29.9

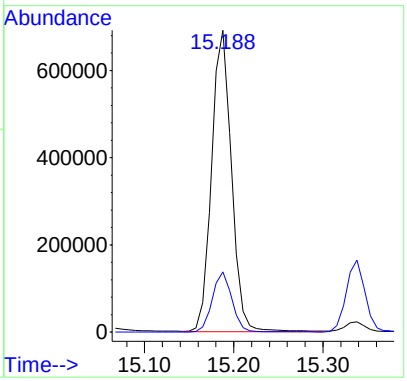


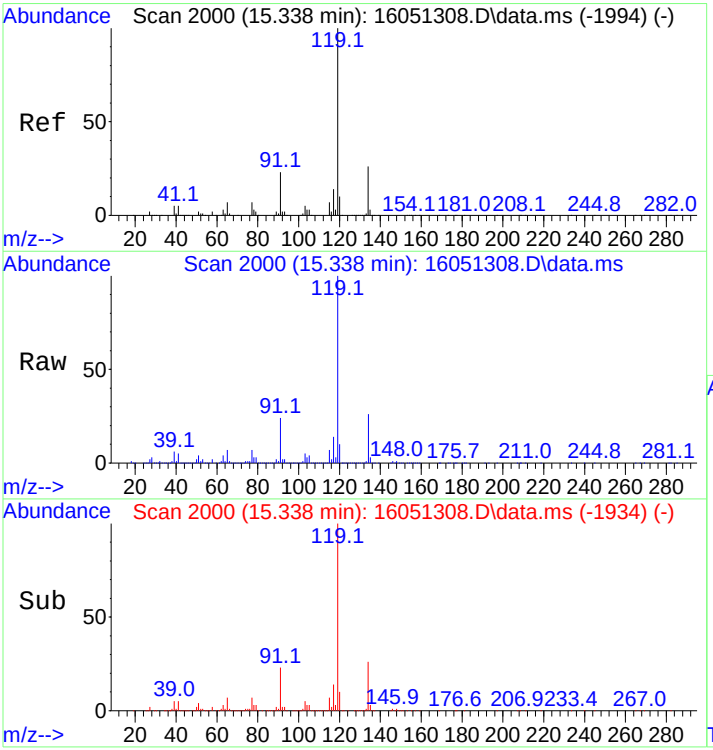


#65
sec-Butylbenzene
Concen: 250.35 ng
RT: 15.188 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:105 Resp: 1071021

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5

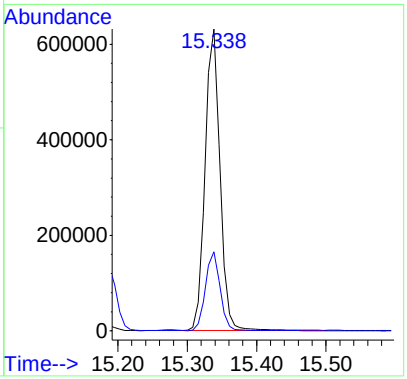


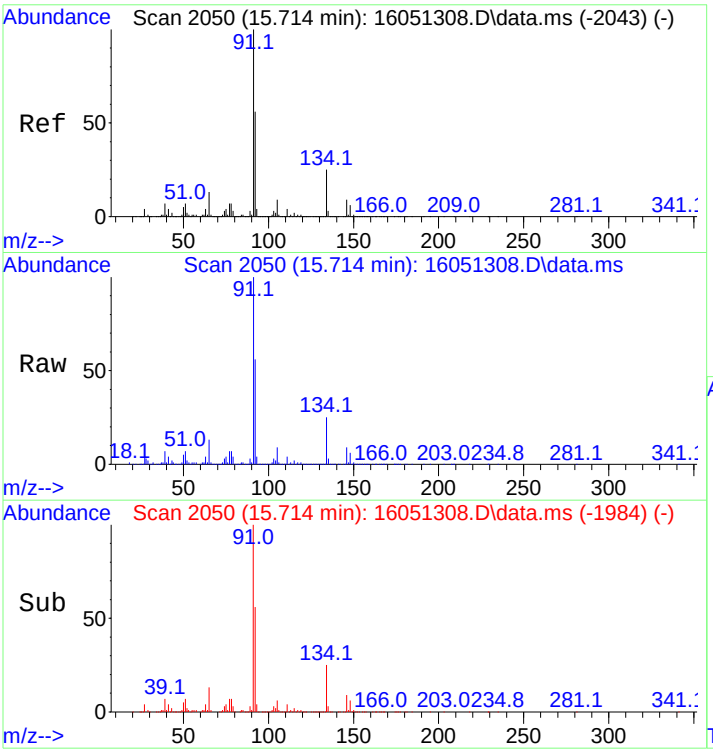


#66
p-Isopropyltoluene
Concen: 249.97 ng
RT: 15.338 min Scan# 2000
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:119 Resp: 942778

Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0

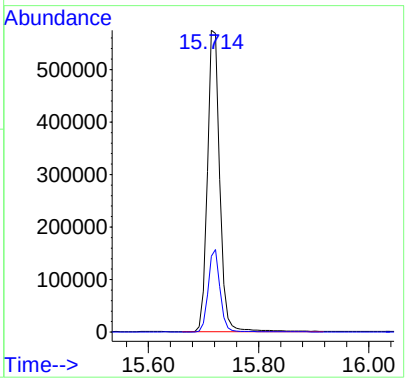


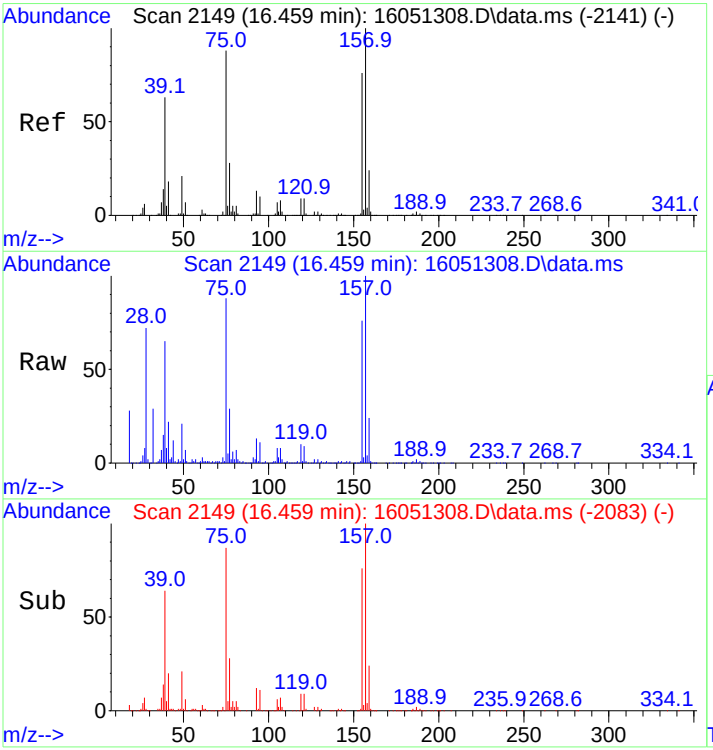


#67
n-Butylbenzene
Concen: 248.21 ng
RT: 15.714 min Scan# 2050
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion: 91 Resp: 905024

Ion	Ratio	Lower	Upper
91	100		
134	26.3	21.0	31.6

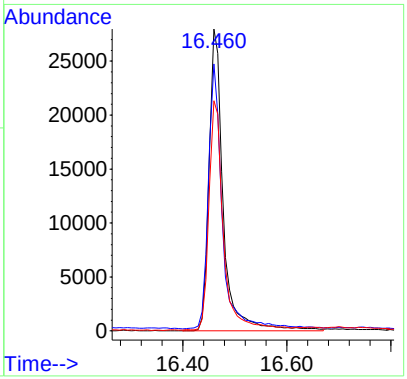




#68
1,2-Dibromo-3-chloropropane
Concen: 231.73 ng
RT: 16.459 min Scan# 2149
Delta R.T. 0.000 min
Lab File: 16051308.D
Acq: 13 May 2016 3:08 pm

Tgt Ion:157 Resp: 53057

Ion	Ratio	Lower	Upper
157	100		
75	85.8	68.6	103.0
155	77.7	62.2	93.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051309.D
Acq On : 13 May 2016 3:56 pm
Operator : SG Instrument MSD-3
Sample : 375NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:45:43 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:44:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.759	130	95970	250.00	ng	0.00
20) 1,4-Difluorobenzene	8.685	114	472924	250.00	ng	0.00
32) d5-Chlorobenzene	12.945	117	313688	250.00	ng	0.00
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.843	65	165055	257.66	ng	0.00
Spiked Amount 250.000			Recovery	=	103.06%	
48) d10-Ethylbenzene(SPK)	13.013	98	441270	204.65	ng	0.00
Spiked Amount 200.000			Recovery	=	102.33%	
49) d8-Toluene(SURR)	11.101	98	465923	250.72	ng	0.00
Spiked Amount 250.000			Recovery	=	100.29%	
50) 4-Bromofluorobenzene(S...	14.239	95	147765	239.15	ng	0.00
Spiked Amount 250.000			Recovery	=	95.66%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.724	85	264326	415.16	ng	99
3) Chloromethane	1.905	50	281779	373.18	ng	100
4) Vinyl Chloride	2.018	62	383570	422.67	ng	98
5) Bromomethane	2.371	94	192035	476.12	ng	100
6) Chloroethane	2.477	64	201989	427.48	ng	99
7) Trichlorofluoromethane	2.755	101	521183	385.03	ng	99
8) 1,1-Dichloroethene	3.372	61	630392	386.40	ng	99
9) Acetone	3.417	43	255141	420.19	ng	99
10) Iodomethane	3.560	142	306800	474.12	ng	100
11) Carbon disulfide	3.651	76	921717	360.90	ng	100
12) Methylene Chloride	4.065	49	435498	385.72	ng	100
13) trans,1,2-Dichloroethene	4.501	61	470184	434.17	ng	100
14) 1,1-Dichloroethane	5.284	63	589864	439.16	ng	100
15) Vinyl Acetate	5.329	43	253812	370.87	ng	100
16) cis,1,2-Dichloroethene	6.330	61	538609	429.13	ng	100
17) 2-Butanone	6.330	43	215305	495.94	ng	99
18) Chloroform	6.977	83	548264	435.11	ng	100
19) 1,1,1-Trichloroethane	7.225	97	287558	399.10	ng	100
22) Carbon Tetrachloride	7.489	117	352434	390.08	ng	100
23) Benzene	7.858	78	1144082	334.16	ng	100
24) 1,2-Dichloroethane	7.985	62	384880	392.70	ng	99
25) Trichloroethene	9.062	95	290472	378.43	ng	100
26) 1,2-Dichloropropane	9.521	63	301276	383.90	ng	99
27) Dibromomethane	9.656	93	182348	414.83	ng	98
28) Bromodichloromethane	10.010	83	338502	396.13	ng	99
29) cis,1,3-Dichloropropene	10.732	75	359815	411.02	ng	99
30) trans,1,3-Dichloropropene	11.568	75	256574	430.91	ng	98
31) 4-Methyl-2-Pentanone	10.973	43	496008	429.20	ng	100
33) Toluene	11.199	91	1135037	364.80	ng	99
34) 1,1,2-Trichloroethane	11.824	83	212481	395.15	ng	99
35) Tetrachloroethene	11.884	166	316430	388.32	ng	100
36) 2-Hexanone	12.110	43	346006	433.48	ng	100
37) Chlorodibromomethane	12.275	129	294266	403.48	ng	100
38) Ethylene Dibromide	12.396	107	255117	383.21	ng	99
39) Chlorobenzene	12.983	112	720710	376.97	ng	98
40) 1,1,1,2-Tetrachloroethane	13.095	131	273890	403.64	ng	99
41) Ethylbenzene	13.111	91	1314545	371.90	ng	100
42) M&P-Xylene	13.261	91	2265781	753.85	ng	99
43) O-Xylene	13.667	91	1171329	375.92	ng	100
44) Styrene	13.698	104	953014	358.31	ng	99
45) Bromoform	13.878	173	245168	426.53	ng	100
46) 1,1,2,2-Tetrachloroethane	14.390	83	372688m	403.98	ng	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051309.D
Acq On : 13 May 2016 3:56 pm
Operator :
Sample : 375NG-VOSTSTD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:45:43 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:44:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,2,3-Trichloropropane	14.435	75	309770m	407.15 ng	
51) Isopropylbenzene	14.059	105	1356514	374.59 ng	100
52) 1,3,5-Trimethylbenzene	14.668	105	1330437	376.97 ng	100
53) 1,2,4-Trimethylbenzene	15.030	105	1315325	377.45 ng	99
54) 1,3-Dichlorobenzene	15.300	146	697860	383.73 ng	100
55) 1,4-Dichlorobenzene	15.398	146	732033	380.81 ng	99
56) 1,2-Dichlorobenzene	15.729	146	651027	378.48 ng	99
57) 1,2,4-Trichlorobenzene	17.197	180	570982	391.37 ng	99
58) Hexachlorobutadiene	17.317	225	292993	382.06 ng	100
59) Naphthalene	17.438	128	1461347	408.09 ng	100
60) 1,1-Dichloropropene	7.519	75	391756	392.95 ng	100
61) 1,3-Dichloropropane	12.019	76	436776	392.80 ng	99
62) Bromobenzene	14.367	77	488632	379.15 ng	100
63) n-Propylbenzene	14.480	91	1726405	376.71 ng	100
64) tert-Butylbenzene	14.969	119	1036046	377.65 ng	100
65) sec-Butylbenzene	15.188	105	1594526	377.17 ng	100
66) p-Isopropyltoluene	15.338	119	1405815	377.19 ng	100
67) n-Butylbenzene	15.714	91	1344571	373.16 ng	100
68) 1,2-Dibromo-3-chloropr...	16.459	157	86624	382.86 ng	98

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

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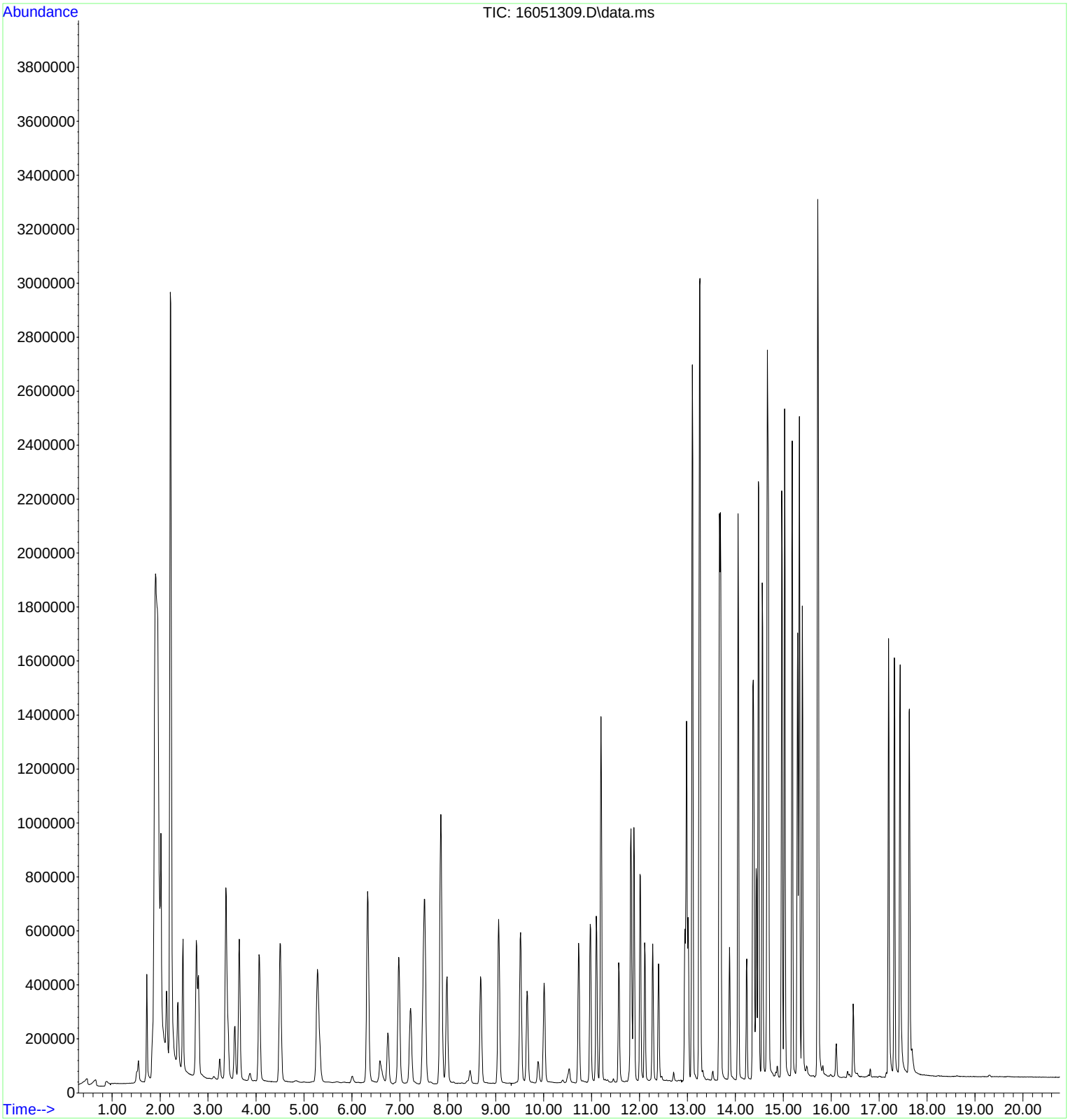
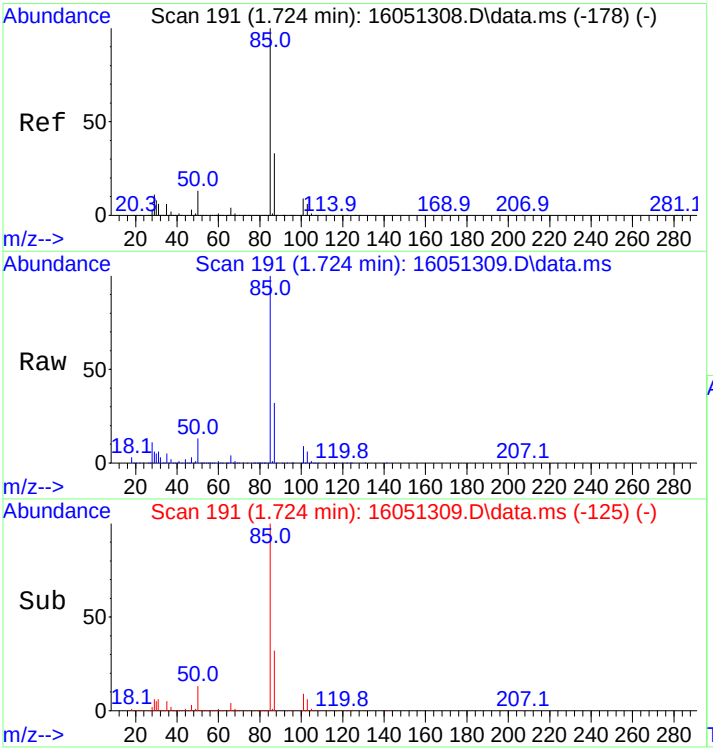
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051309.D
Acq On : 13 May 2016 3:56 pm
Operator : SG Instrument MSD-3
Sample : 375NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 13:13:07 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

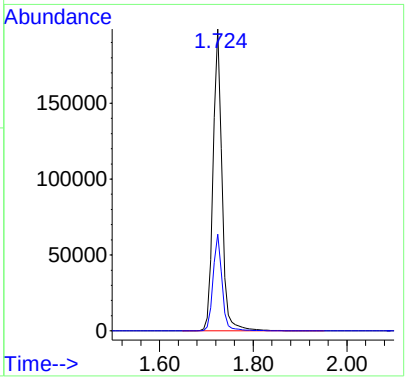


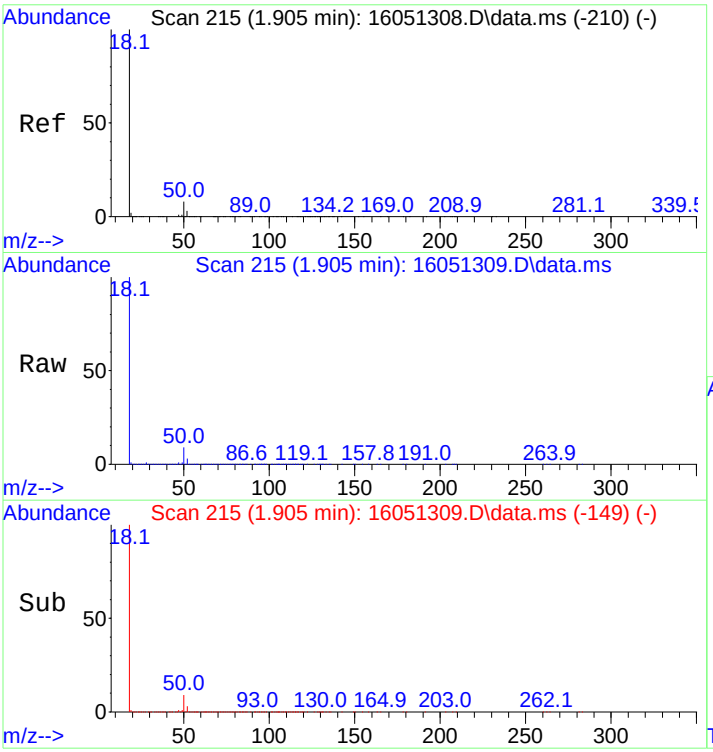


#2
Dichlorodifluoromethane
Concen: 415.16 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 85 Resp: 264326

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.0	39.0

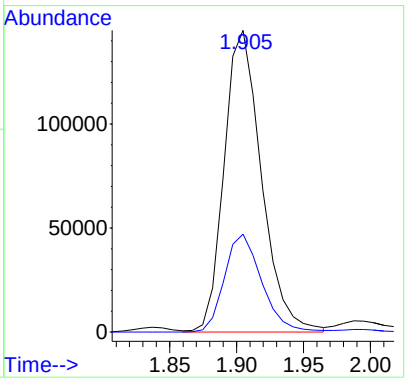


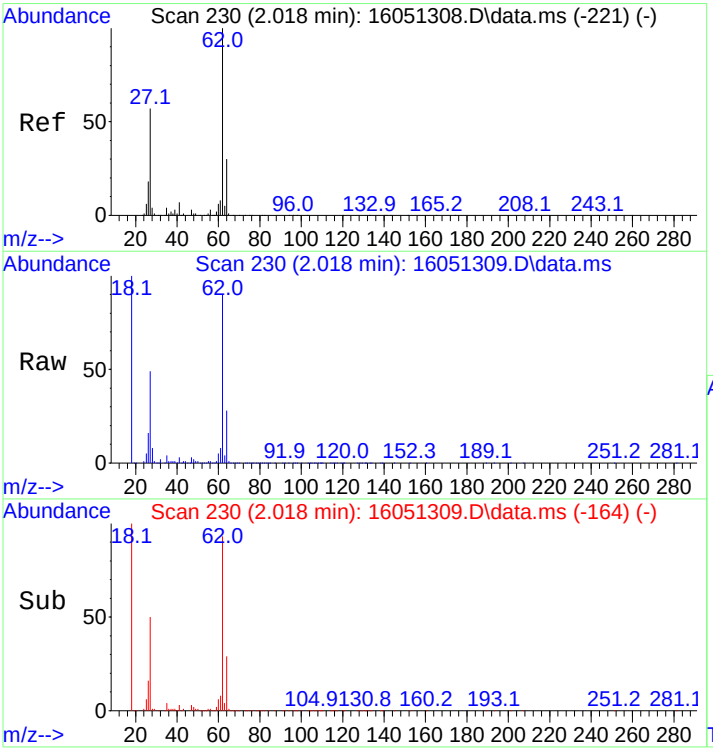


#3
Chloromethane
Concen: 373.18 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 50 Resp: 281779

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.0	39.0

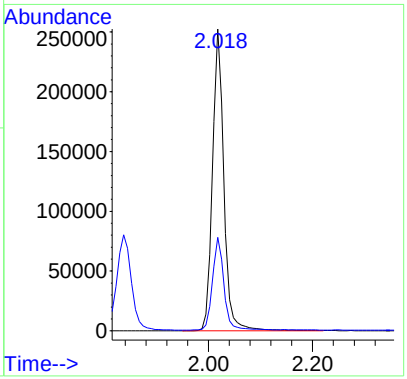


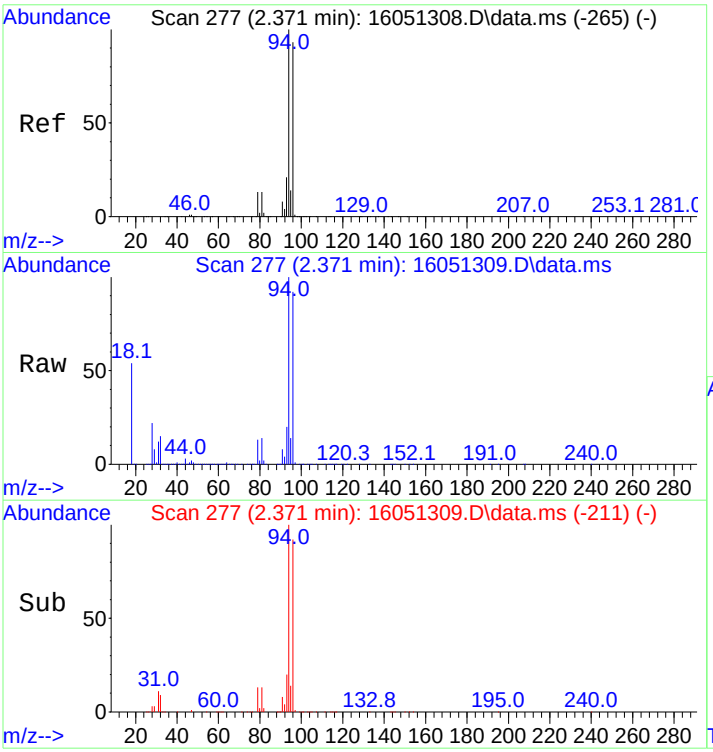


#4
Vinyl Chloride
Concen: 422.67 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 62 Resp: 383570

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.7	38.5

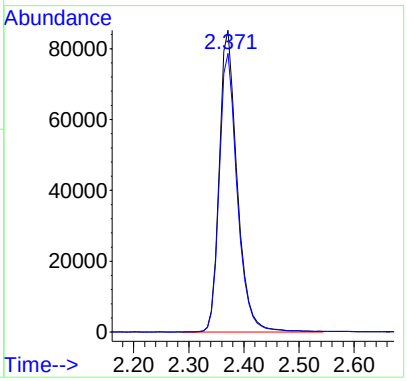


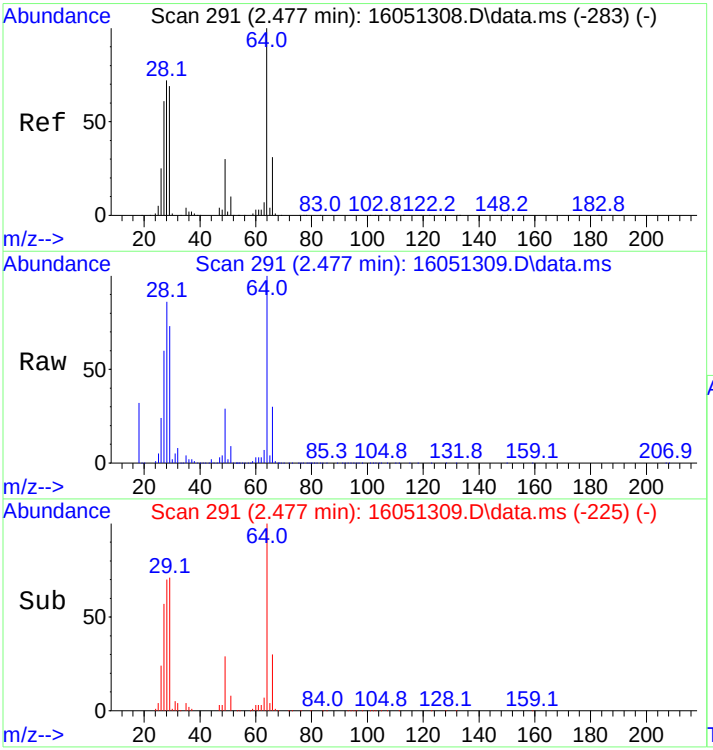


#5
Bromomethane
Concen: 476.12 ng
RT: 2.371 min Scan# 277
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 94 Resp: 192035

Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7

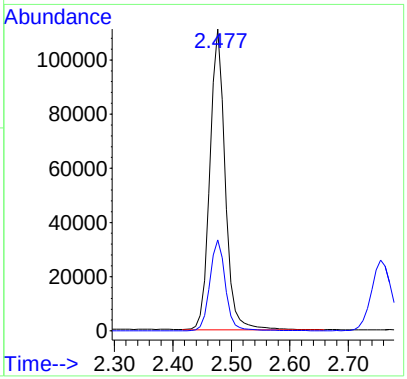


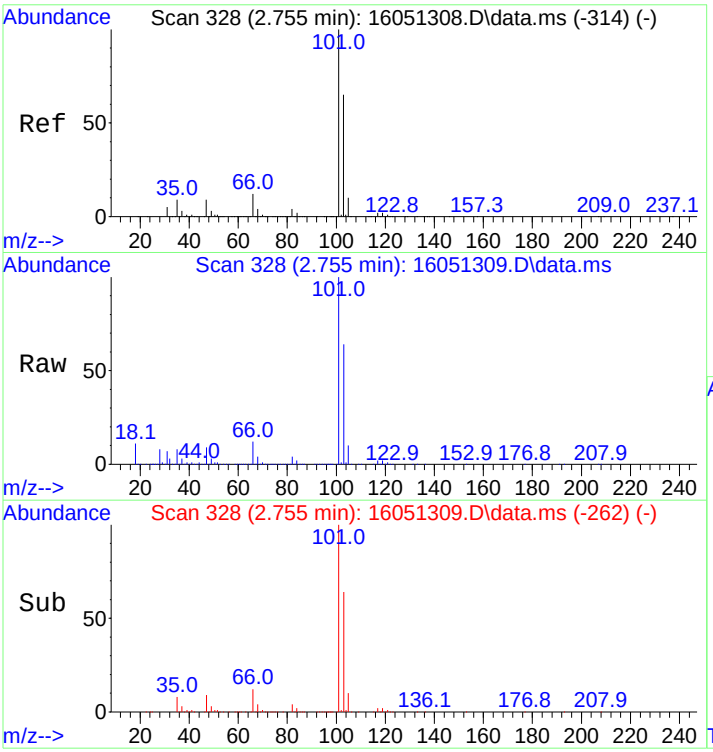


#6
Chloroethane
Concen: 427.49 ng
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 64 Resp: 201989

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4

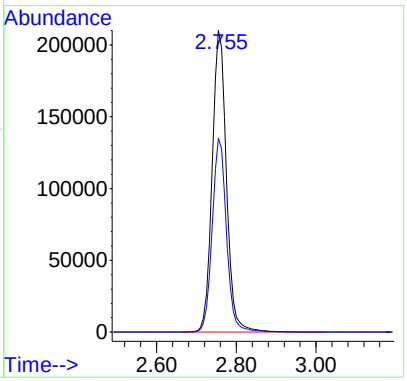


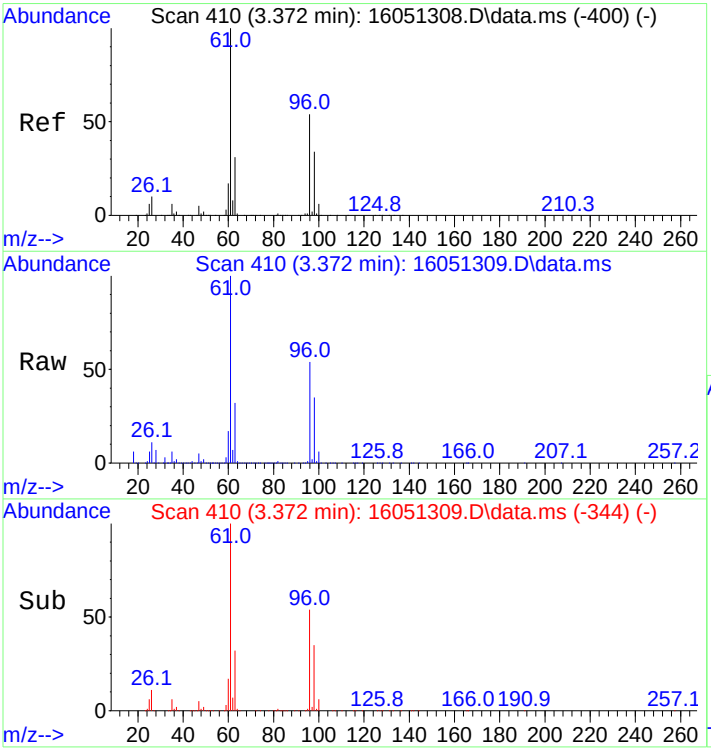


#7
Trichlorofluoromethane
Concen: 385.03 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:101 Resp: 521183

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.8	77.6

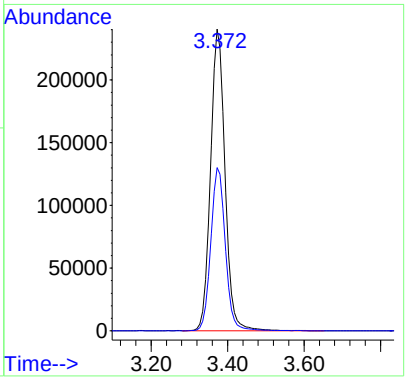


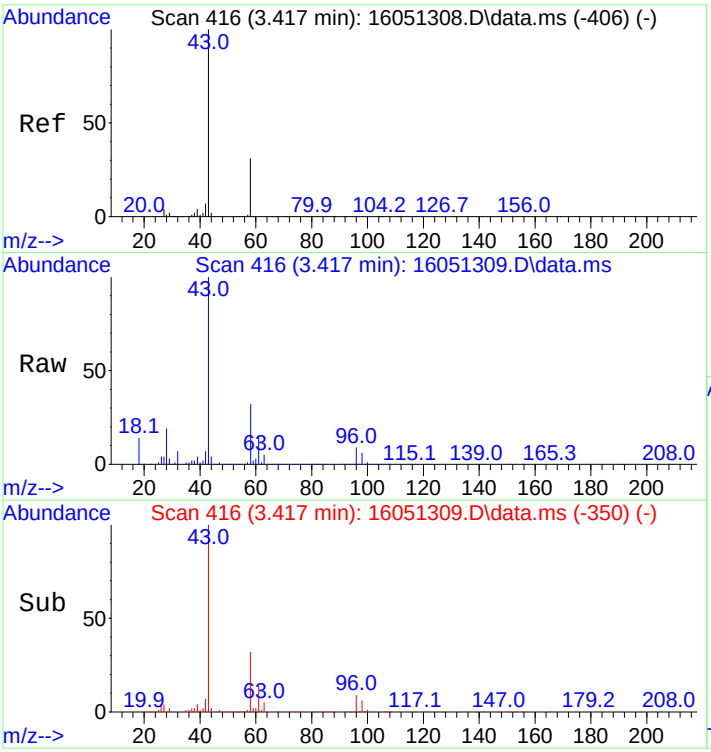


#8
1,1-Dichloroethene
Concen: 386.40 ng
RT: 3.372 min Scan# 410
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 61 Resp: 630392

Ion	Ratio	Lower	Upper
61	100		
96	54.2	44.1	66.1

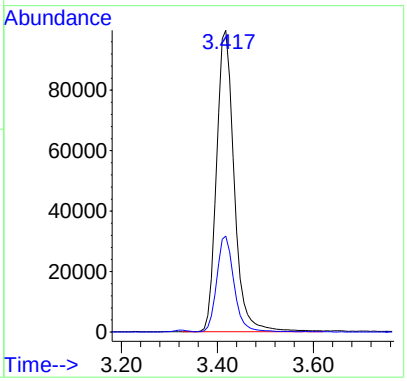


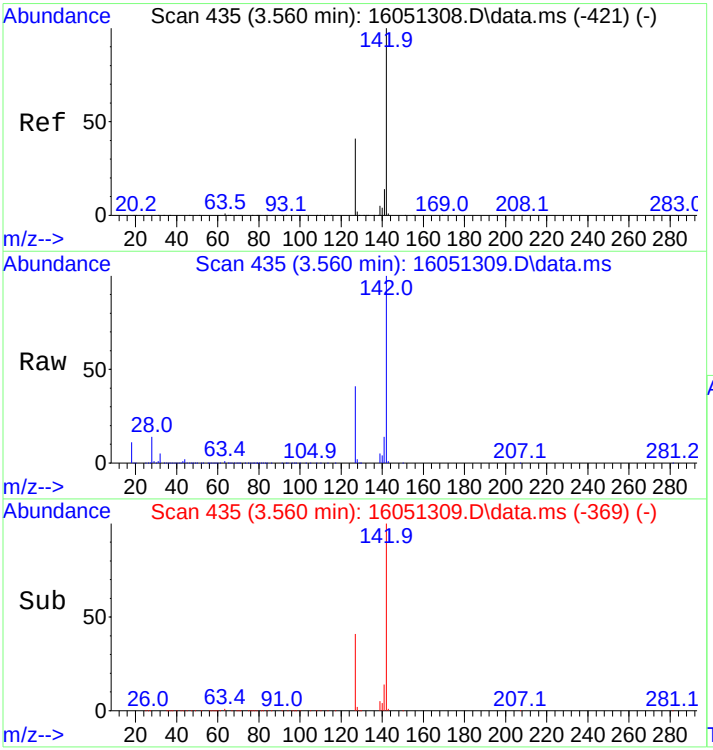


#9
Acetone
Concen: 420.19 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 255141

Ion	Ratio	Lower	Upper
43	100		
58	31.3	24.7	37.1

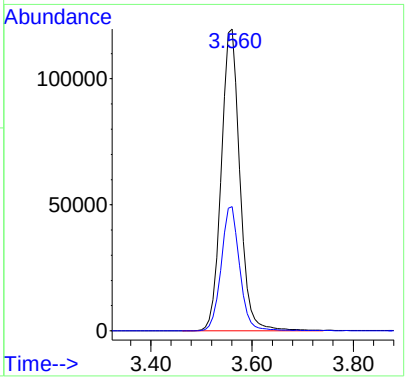


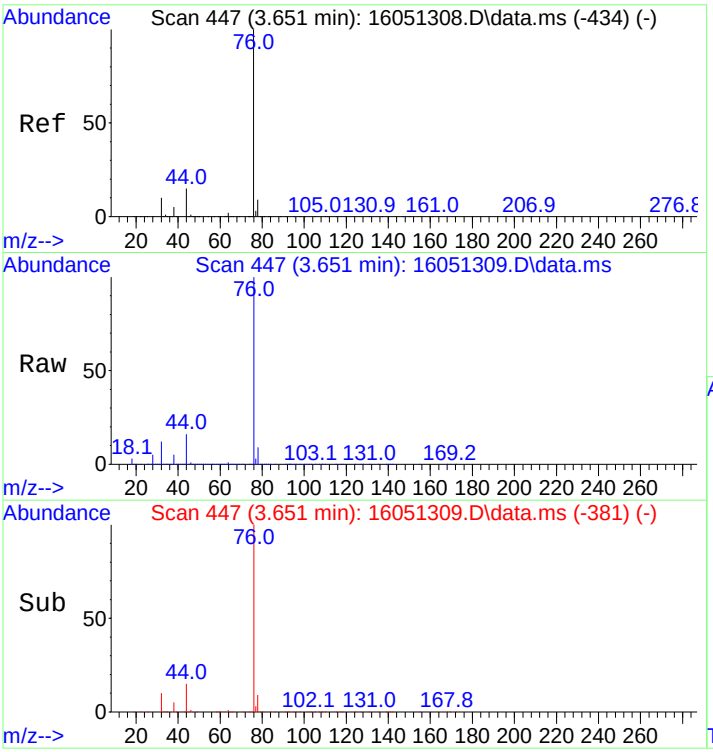


#10
Iodomethane
Concen: 474.12 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:142 Resp: 306800

Ion	Ratio	Lower	Upper
142	100		
127	41.1	32.8	49.2

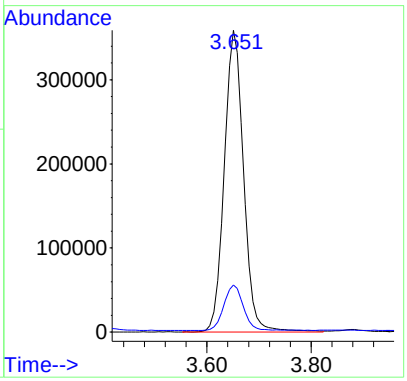


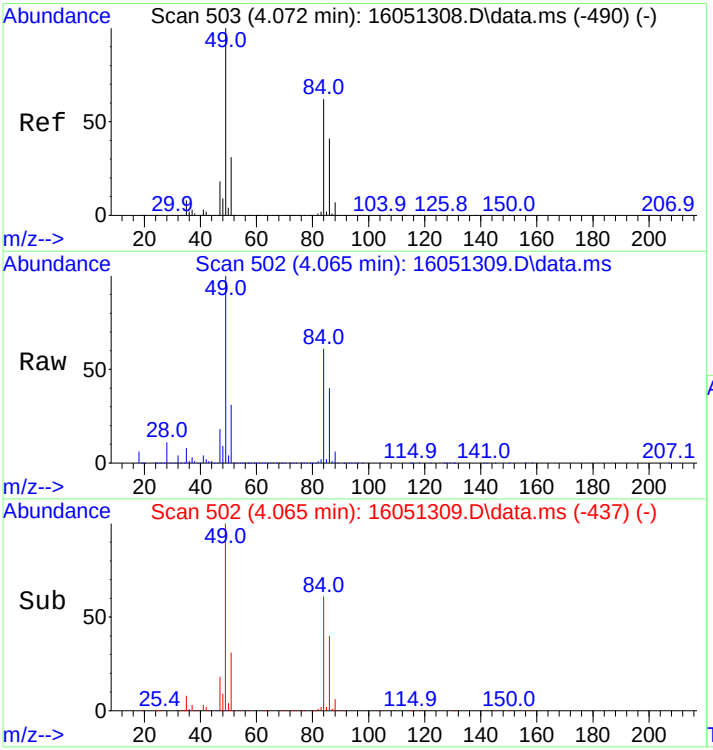


#11
Carbon disulfide
Concen: 360.90 ng
RT: 3.651 min Scan# 447
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 76 Resp: 921717

Ion	Ratio	Lower	Upper
76	100		
44	15.1	12.2	18.4

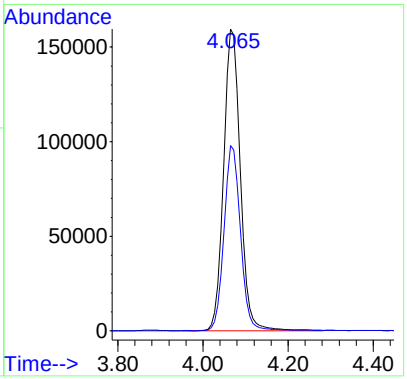


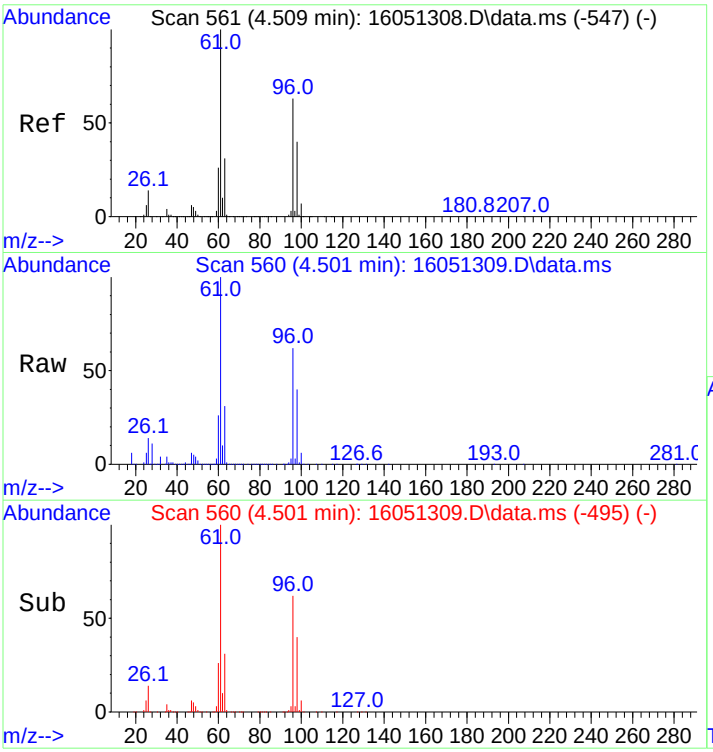


#12
Methylene Chloride
Concen: 385.72 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.008 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 49 Resp: 435498

Ion	Ratio	Lower	Upper
49	100		
84	60.7	48.4	72.6

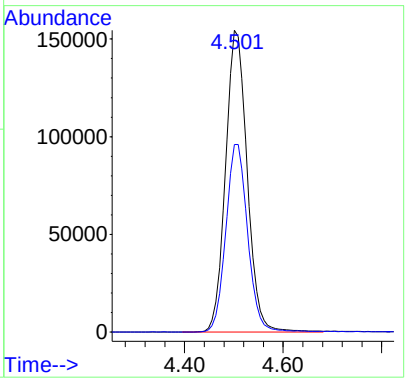


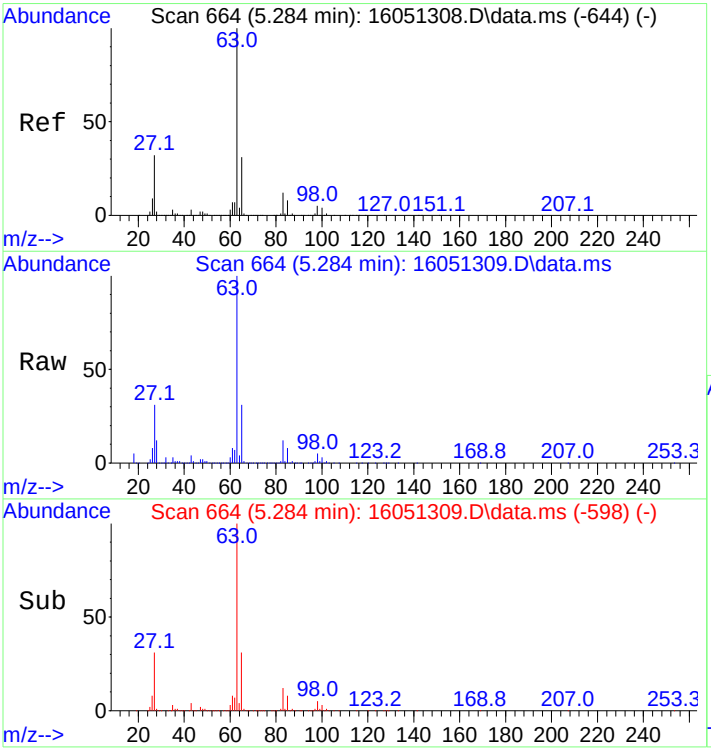


#13
trans,1,2-Dichloroethene
Concen: 434.17 ng
RT: 4.501 min Scan# 560
Delta R.T. -0.008 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 61 Resp: 470184

Ion	Ratio	Lower	Upper
61	100		
96	62.6	50.2	75.4

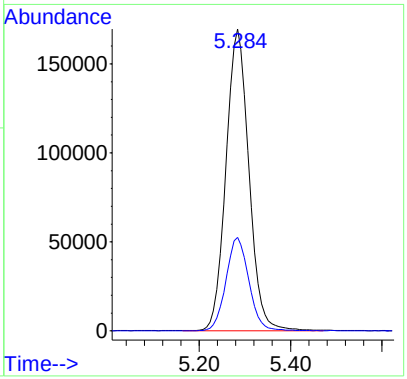


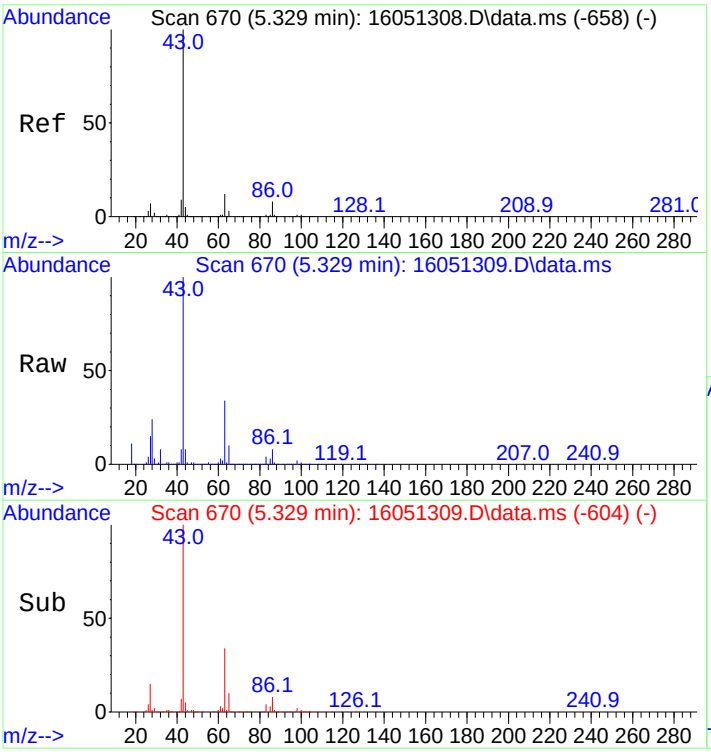


#14
1,1-Dichloroethane
Concen: 439.16 ng
RT: 5.284 min Scan# 664
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 63 Resp: 589864

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0

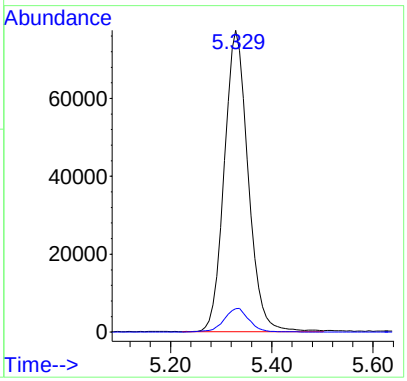


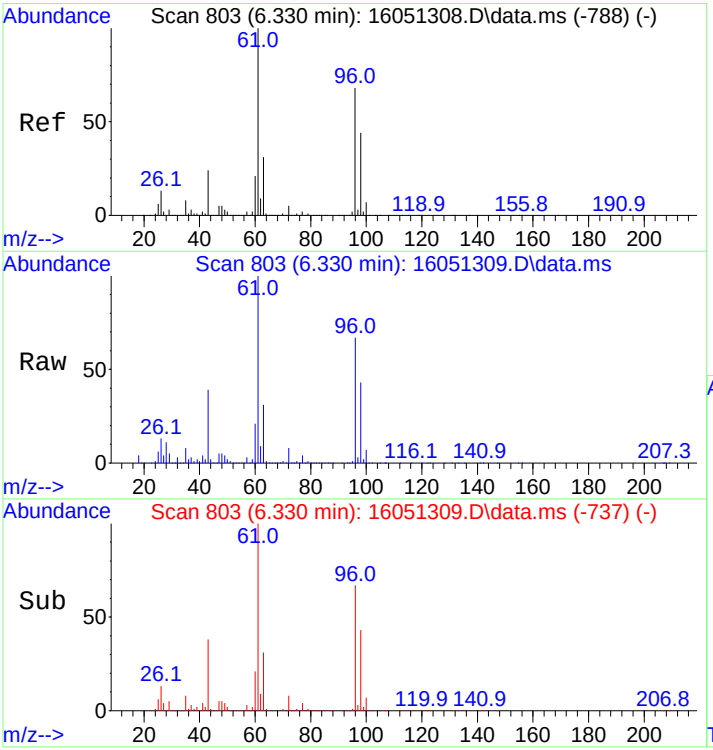


#15
Vinyl Acetate
Concen: 370.87 ng
RT: 5.329 min Scan# 670
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 253812

Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.6	9.8

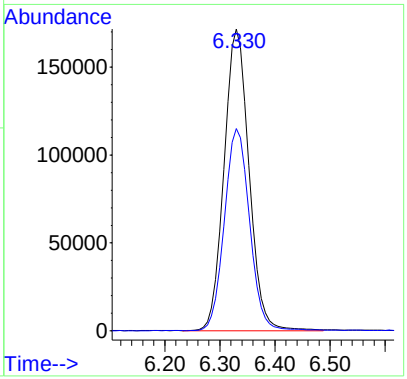


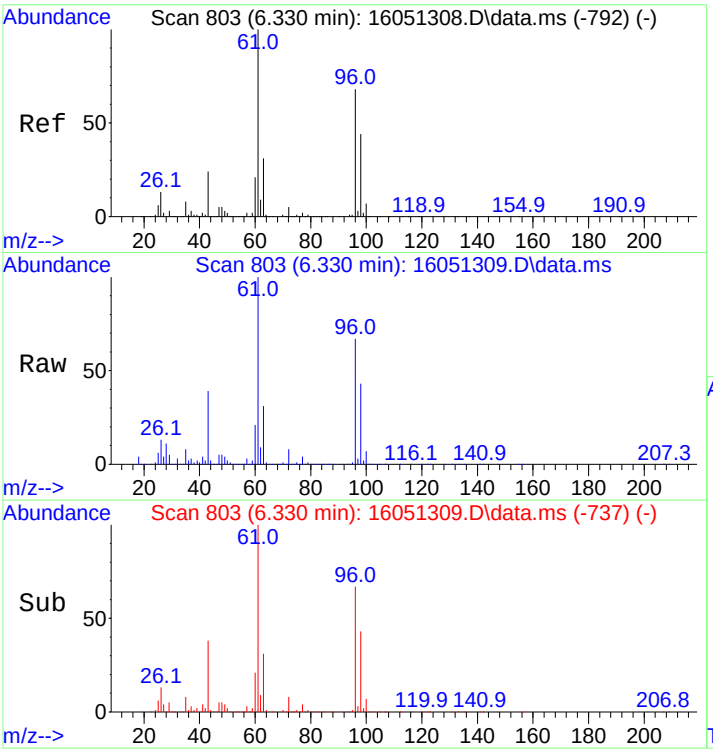


#16
cis,1,2-Dichloroethene
Concen: 429.13 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 61 Resp: 538609

Ion	Ratio	Lower	Upper
61	100		
96	67.8	54.6	81.8

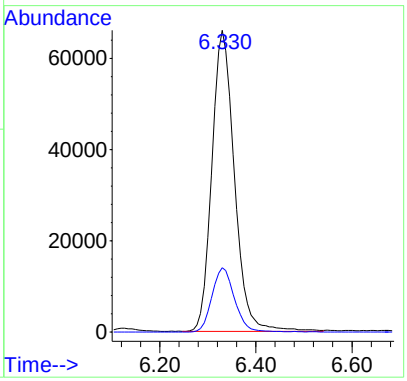


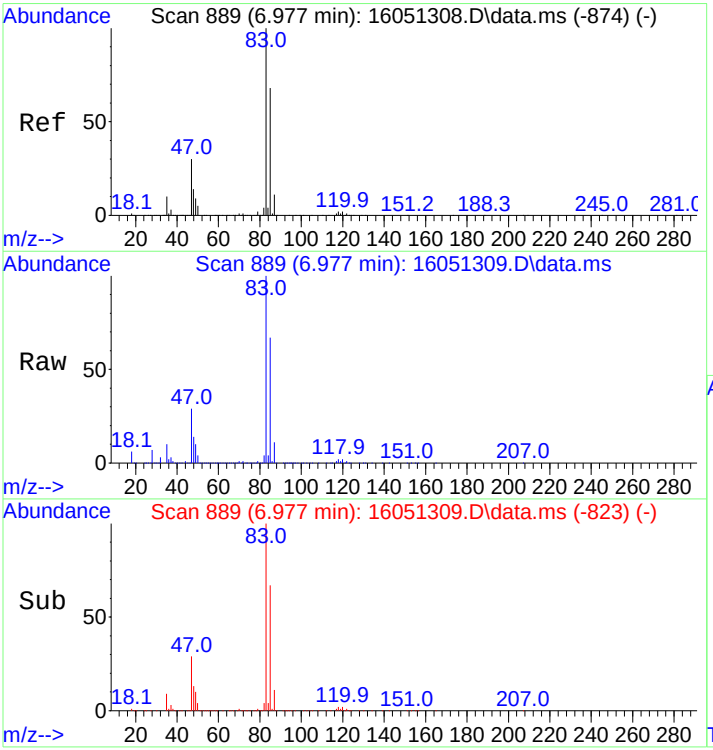


#17
2-Butanone
Concen: 495.94 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 215305

Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.2

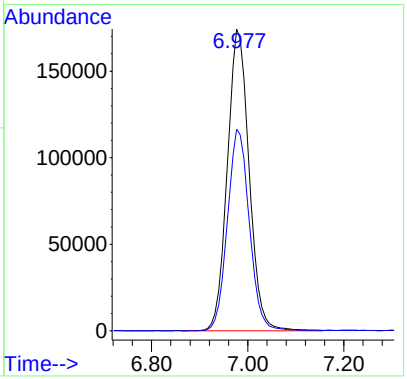


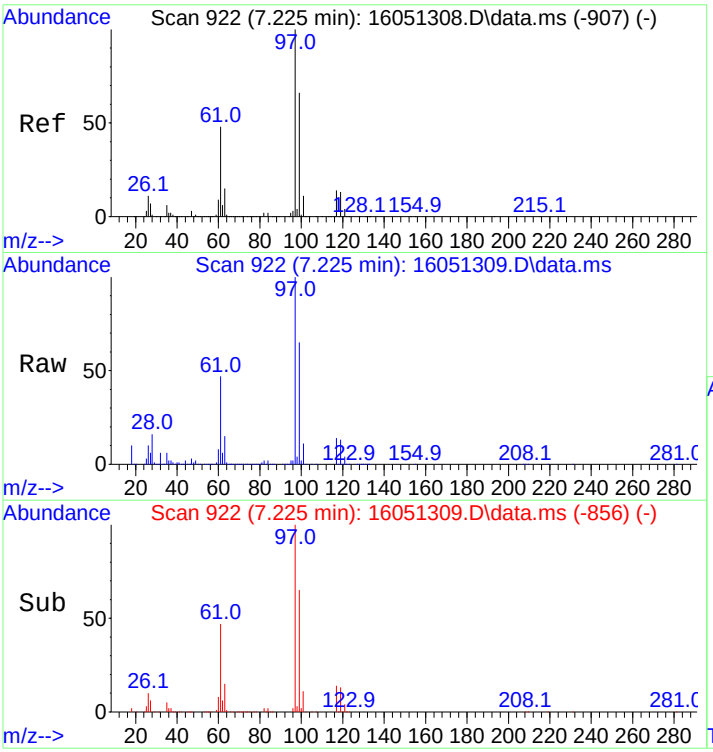


#18
Chloroform
Concen: 435.11 ng
RT: 6.977 min Scan# 889
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 548264

Ion	Ratio	Lower	Upper
83	100		
85	67.2	53.9	80.9

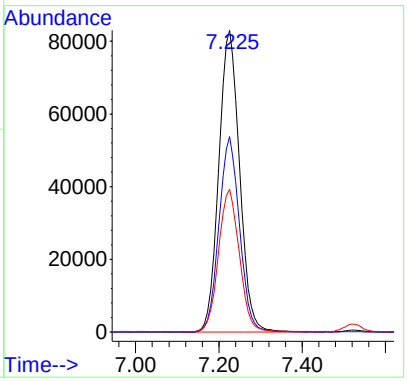


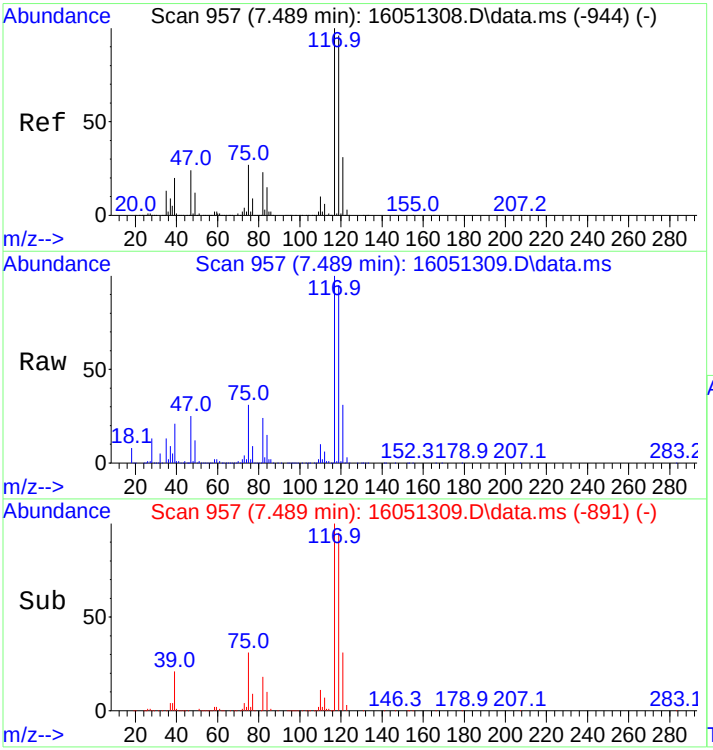


#19
1,1,1-Trichloroethane
Concen: 399.10 ng
RT: 7.225 min Scan# 922
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 97 Resp: 287558

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.3	76.9
61	47.1	37.6	56.4

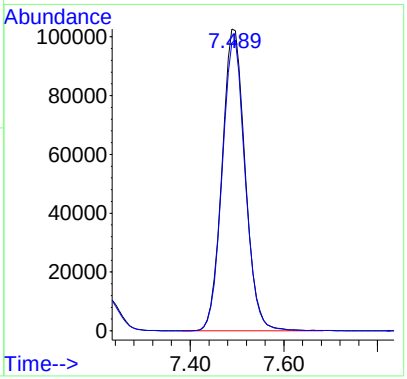


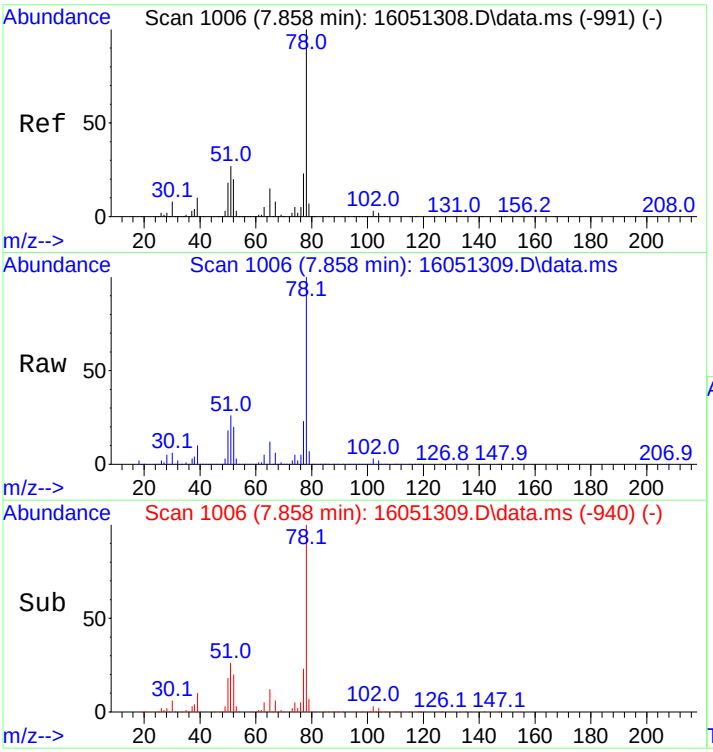


#22
Carbon Tetrachloride
Concen: 390.08 ng
RT: 7.489 min Scan# 957
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:117 Resp: 352434

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.0	115.4

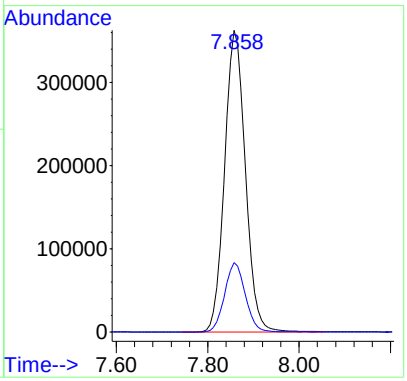


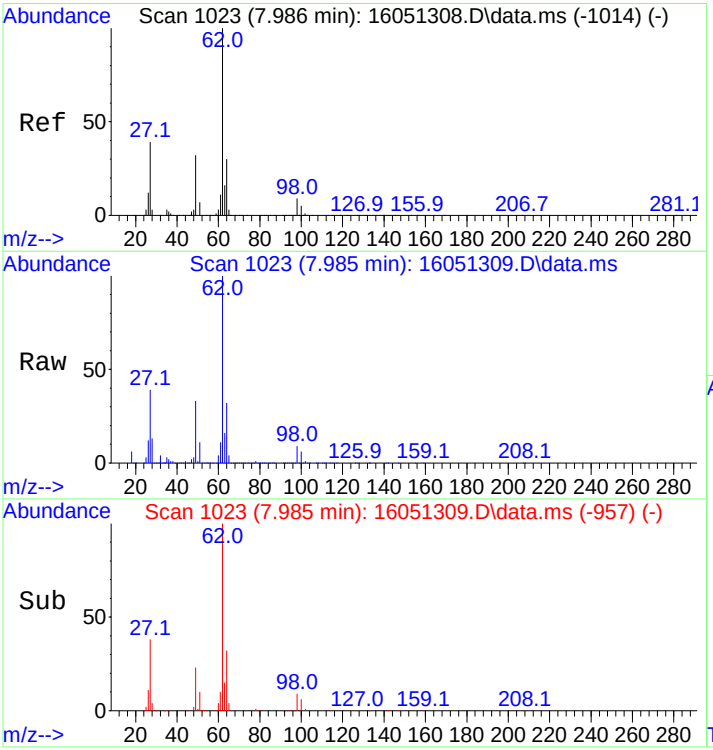


#23
Benzene
Concen: 334.16 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 78 Resp: 1144082

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

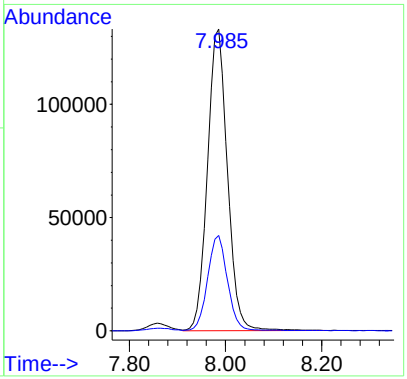


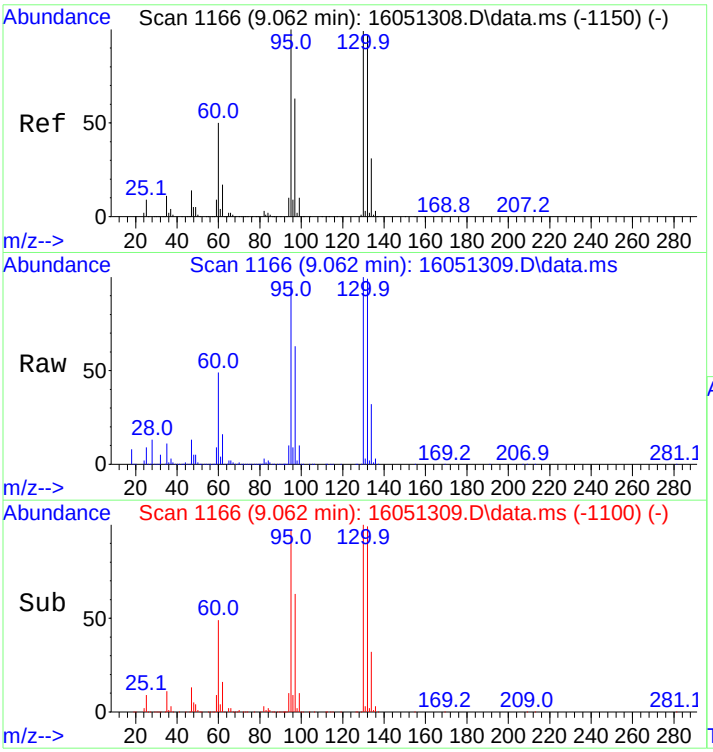


#24
1,2-Dichloroethane
Concen: 392.70 ng
RT: 7.985 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 62 Resp: 384880

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2

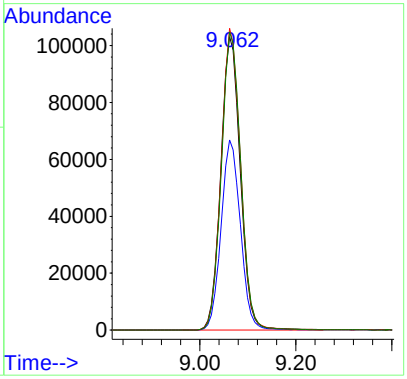


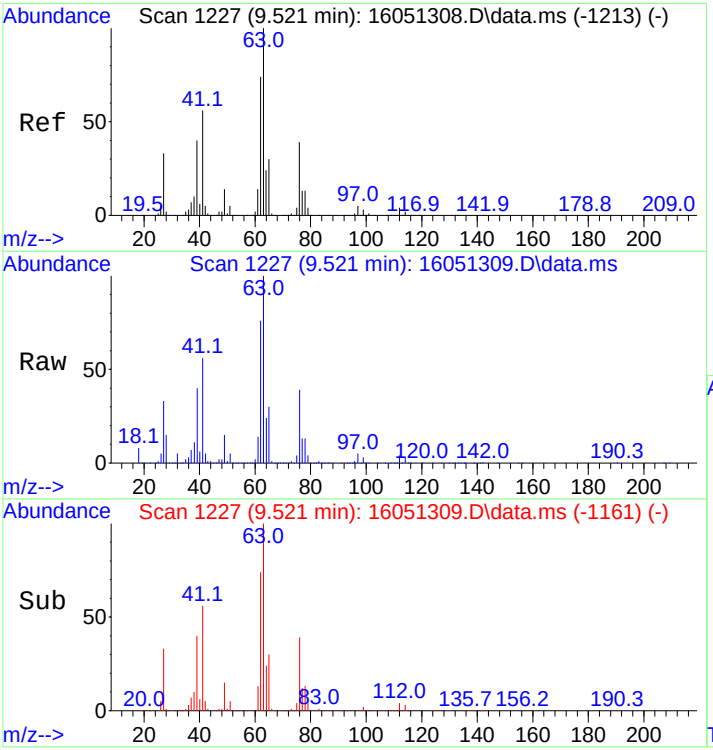


#25
Trichloroethene
Concen: 378.43 ng
RT: 9.062 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 95 Resp: 290472

Ion	Ratio	Lower	Upper
95	100		
97	64.3	51.8	77.8
130	102.2	81.9	122.9
132	101.5	81.2	121.8

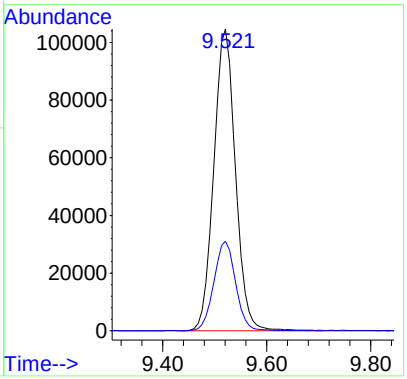


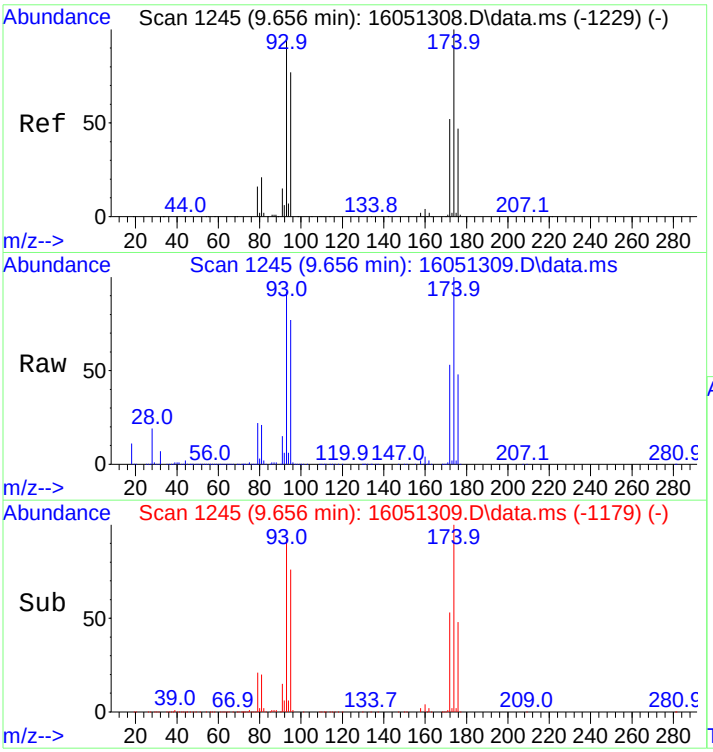


#26
1,2-Dichloropropane
Concen: 383.90 ng
RT: 9.521 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 63 Resp: 301276

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.2	36.2

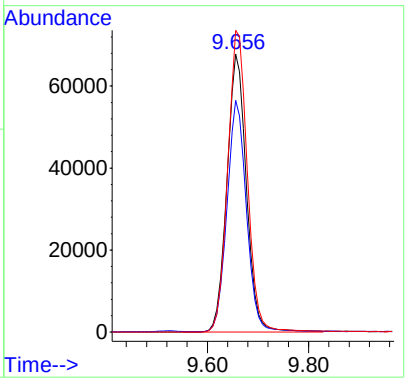


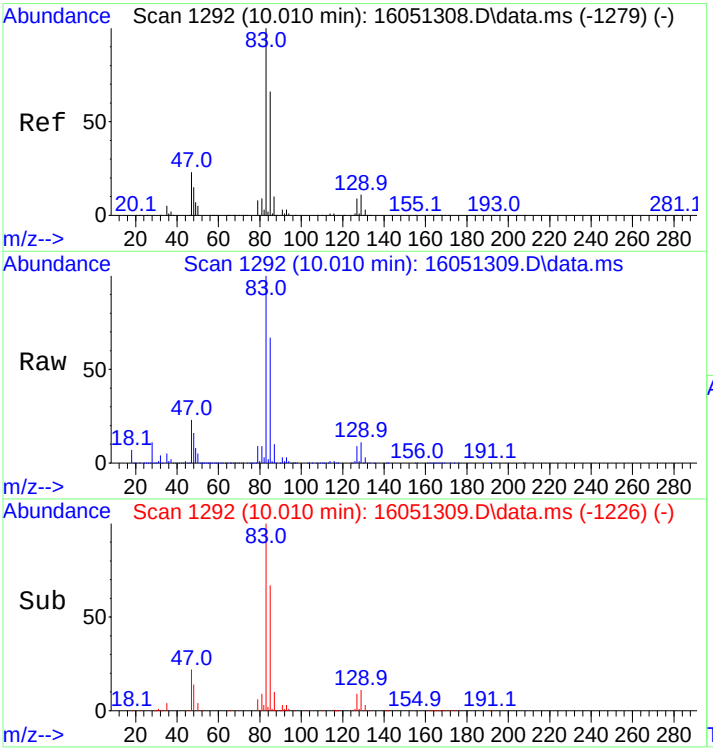


#27
Dibromomethane
Concen: 414.83 ng
RT: 9.656 min Scan# 1245
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 93 Resp: 182348

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	109.6	85.5	128.3

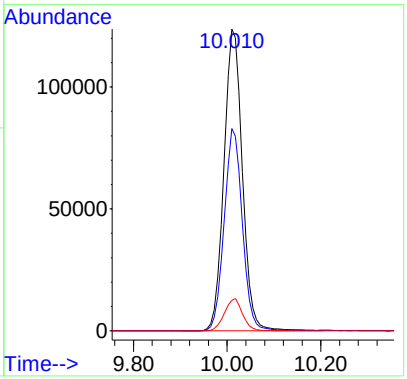


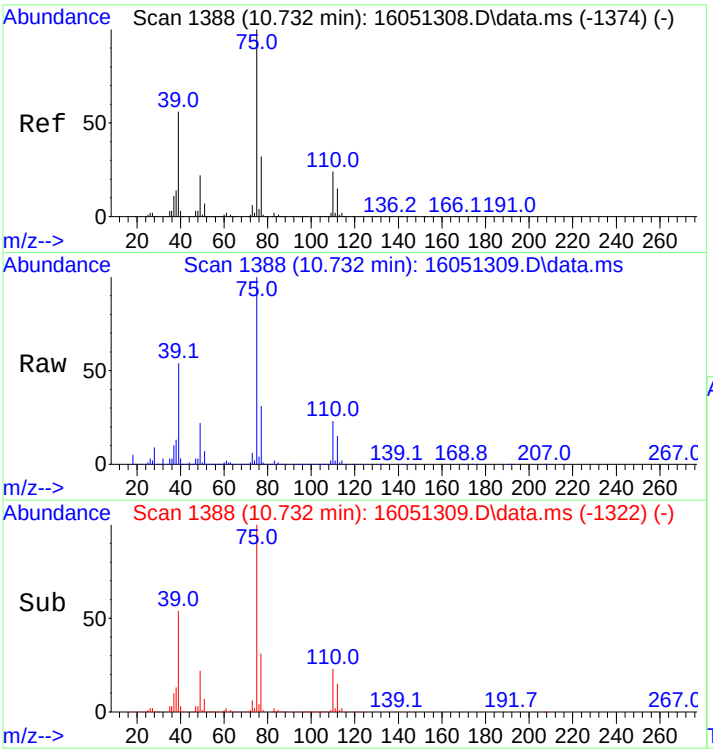


#28
Bromodichloromethane
Concen: 396.13 ng
RT: 10.010 min Scan# 1292
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 338502

Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.5	78.7
87	10.5	8.3	12.5

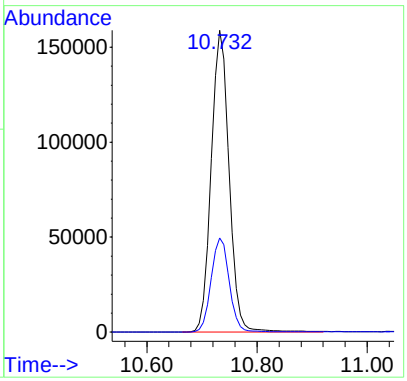


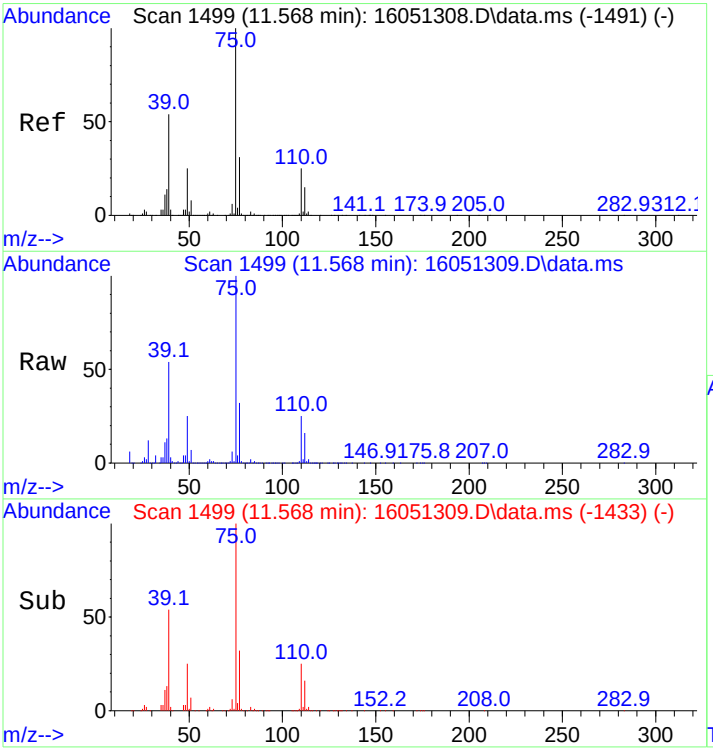


#29
cis,1,3-Dichloropropene
Concen: 411.02 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 359815

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4

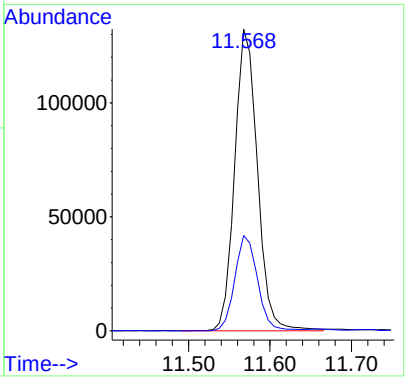


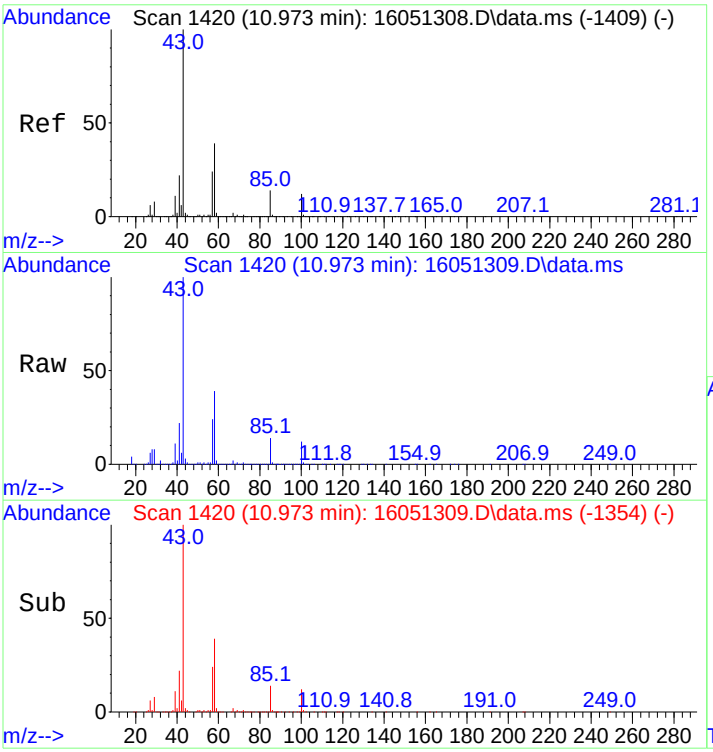


#30
trans,1,3-Dichloropropene
Concen: 430.91 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 256574

Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.0	39.0

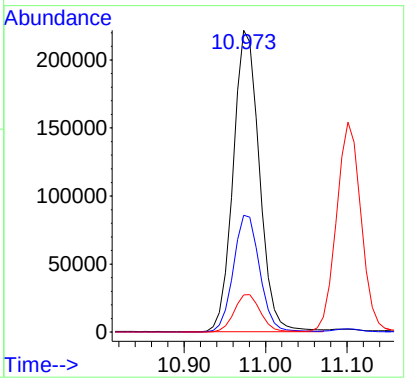


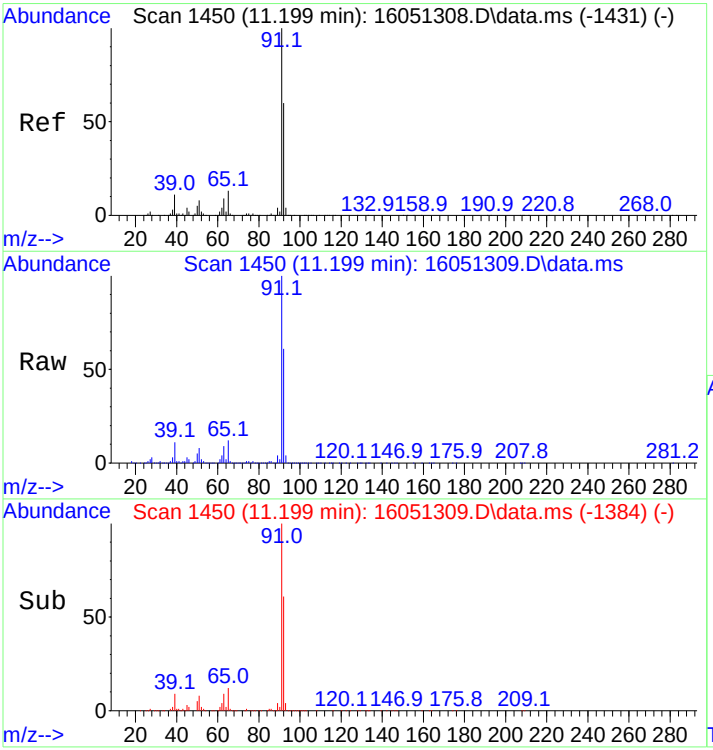


#31
4-Methyl-2-Pentanone
Concen: 429.20 ng
RT: 10.973 min Scan# 1420
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 496008

Ion	Ratio	Lower	Upper
43	100		
58	39.1	31.3	46.9
100	12.7	10.2	15.2

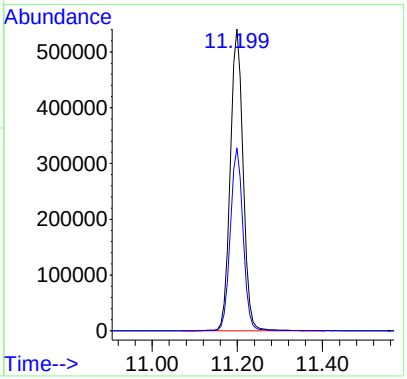


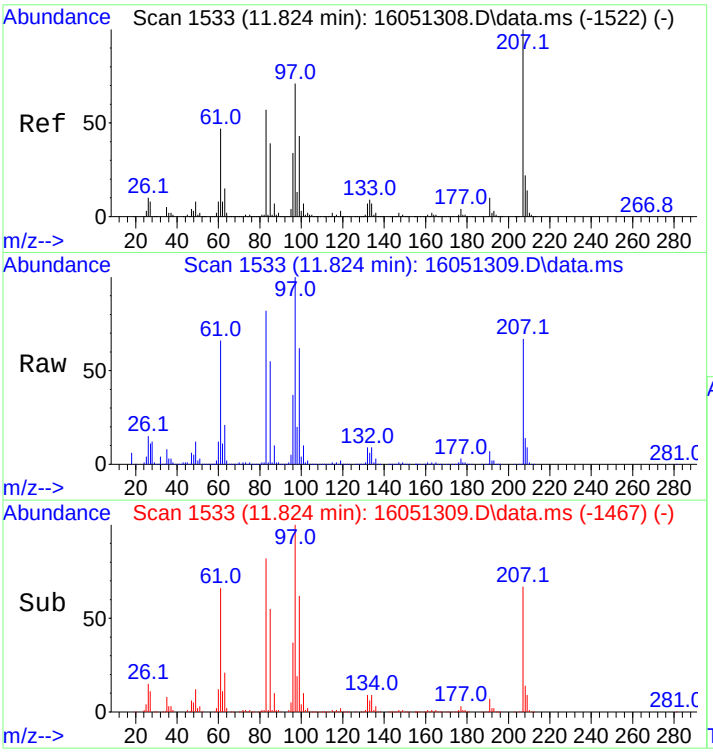


#33
Toluene
Concen: 364.80 ng
RT: 11.199 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1135037

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.6	73.0

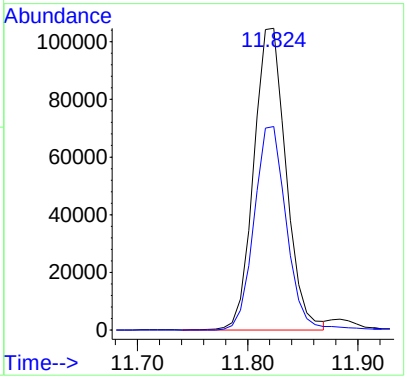


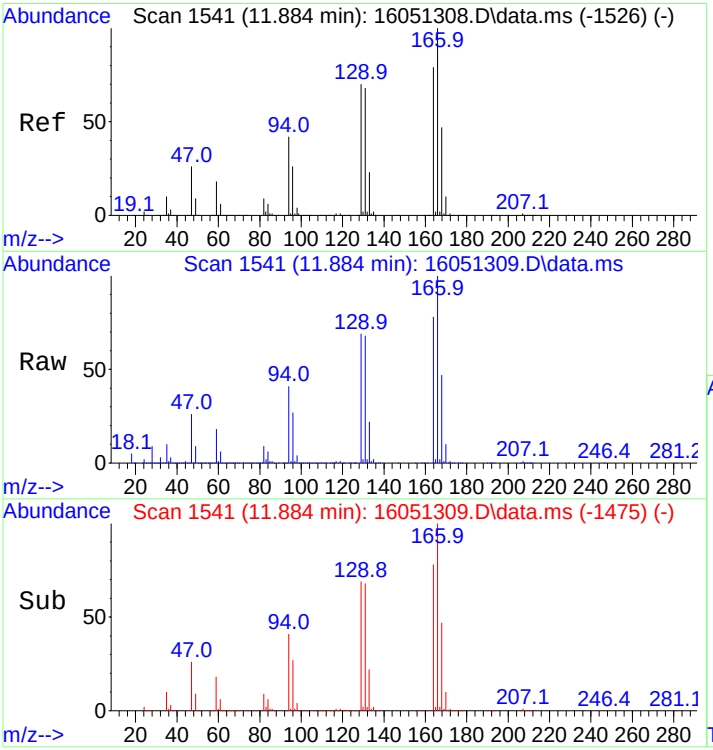


#34
1,1,2-Trichloroethane
Concen: 395.15 ng
RT: 11.824 min Scan# 1533
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 212481

Ion	Ratio	Lower	Upper
83	100		
85	67.9	54.7	82.1

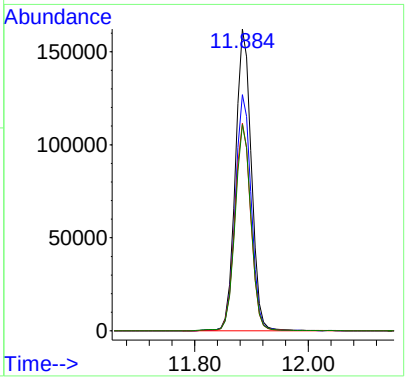


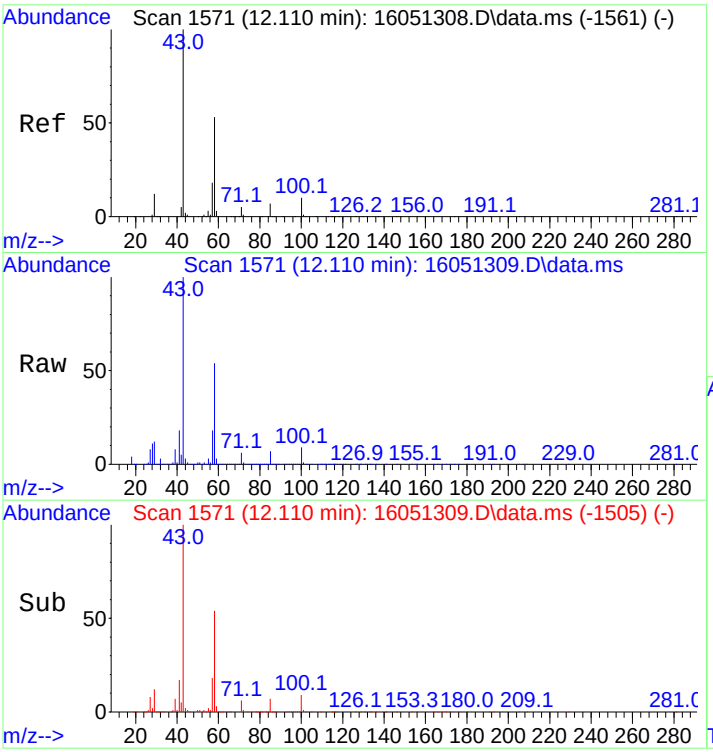


#35
Tetrachloroethene
Concen: 388.32 ng
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:166 Resp: 316430

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.2	94.8
129	69.3	55.5	83.3
131	68.4	55.2	82.8

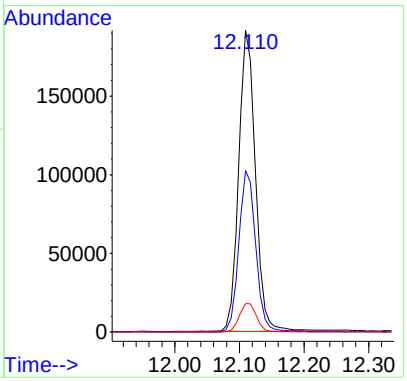


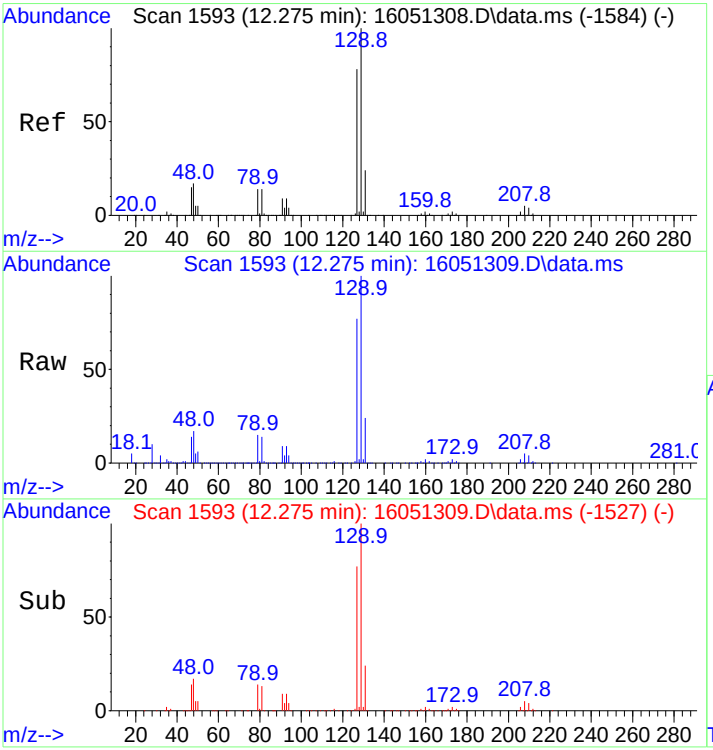


#36
2-Hexanone
Concen: 433.48 ng
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 346006

Ion	Ratio	Lower	Upper
43	100		
58	54.6	43.6	65.4
100	9.9	7.8	11.8

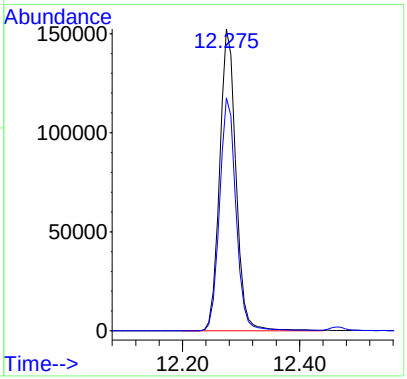


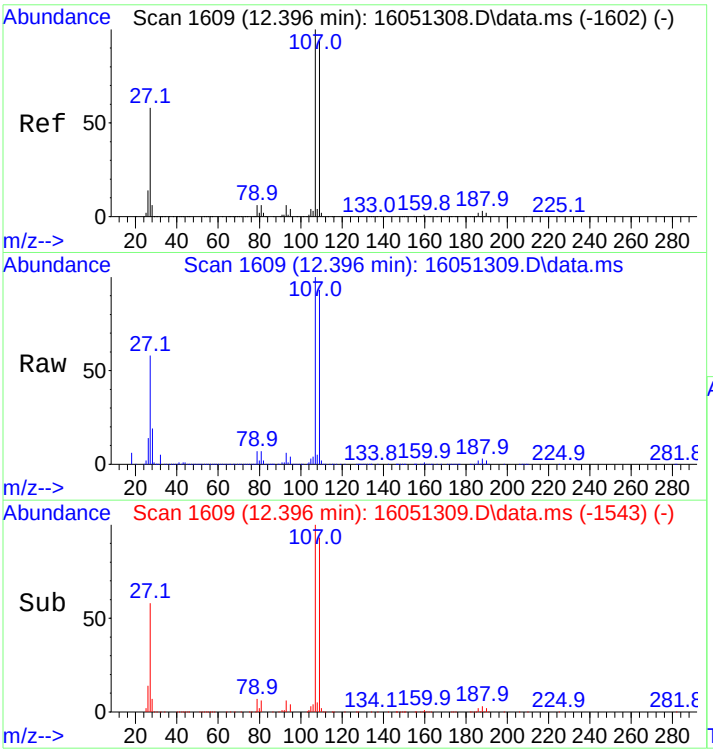


#37
Chlorodibromomethane
Concen: 403.48 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:129 Resp: 294266

Ion	Ratio	Lower	Upper
129	100		
127	77.8	62.3	93.5

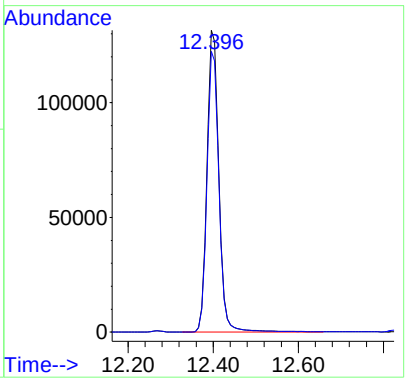


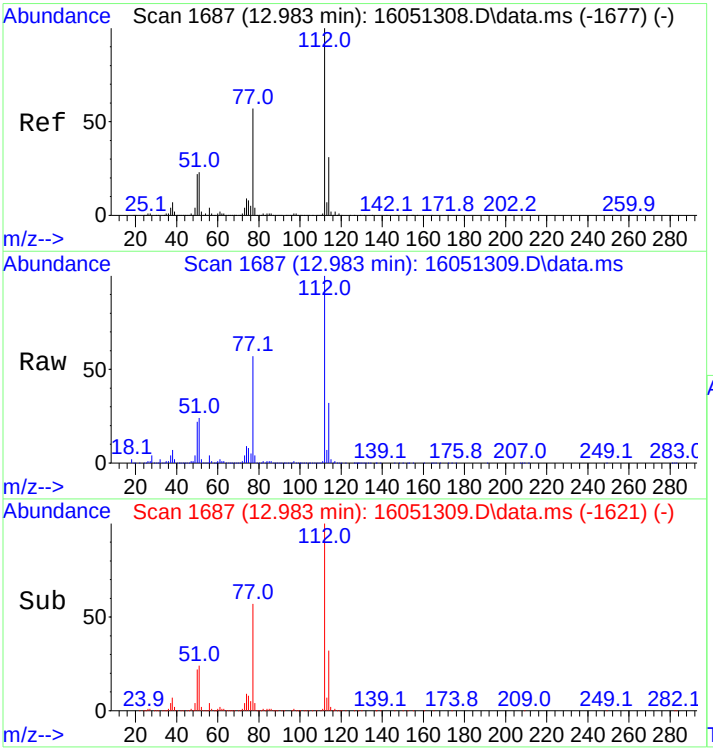


#38
Ethylene Dibromide
Concen: 383.21 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:107 Resp: 255117

Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.3	111.5

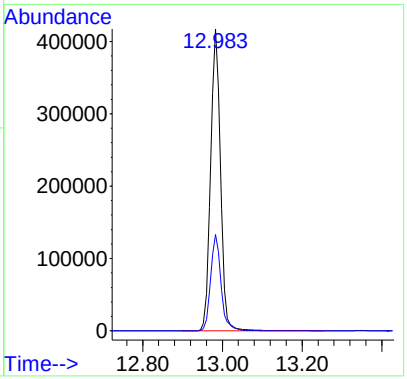


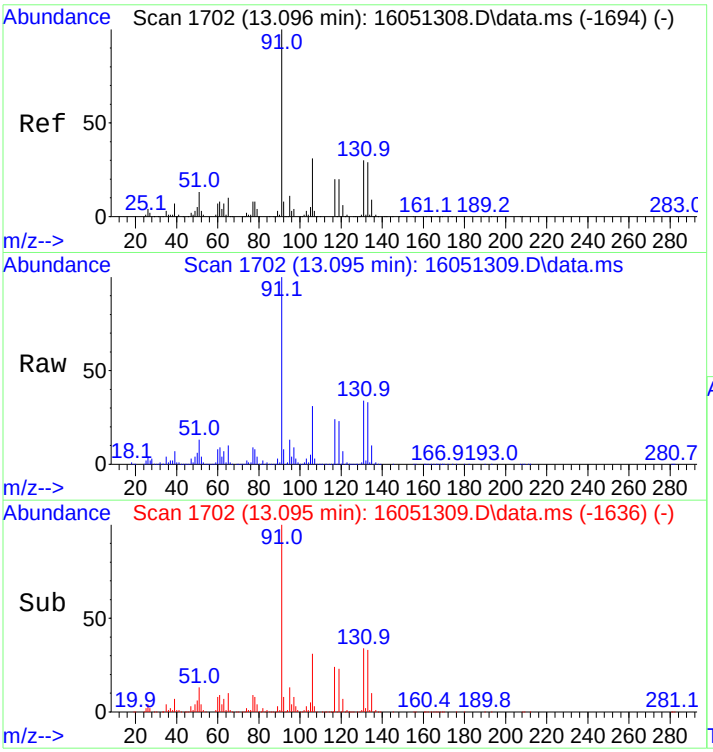


#39
Chlorobenzene
Concen: 376.97 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:112 Resp: 720710

Ion	Ratio	Lower	Upper
112	100		
114	33.5	27.5	41.3

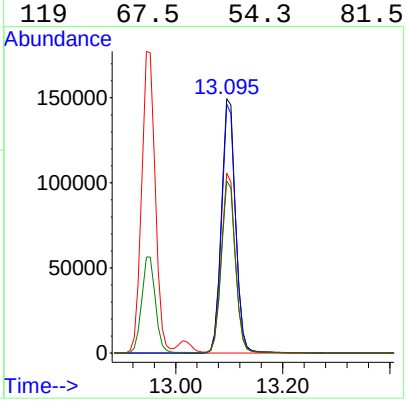


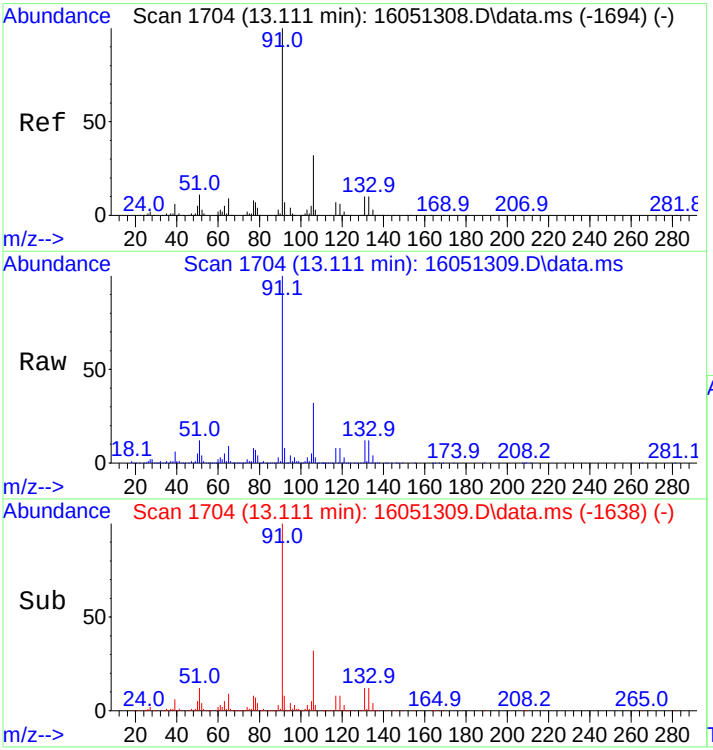


#40
1,1,1,2-Tetrachloroethane
Concen: 403.64 ng
RT: 13.095 min Scan# 1702
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:131 Resp: 273890

Ion	Ratio	Lower	Upper
131	100		
133	96.9	77.8	116.6
117	70.3	57.1	85.7
119	67.5	54.3	81.5

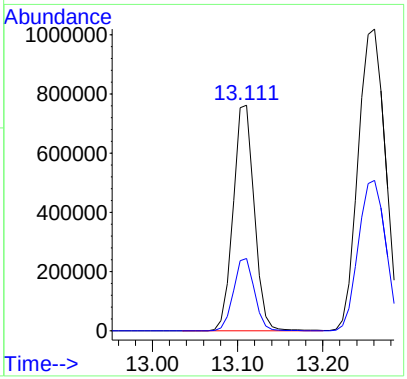


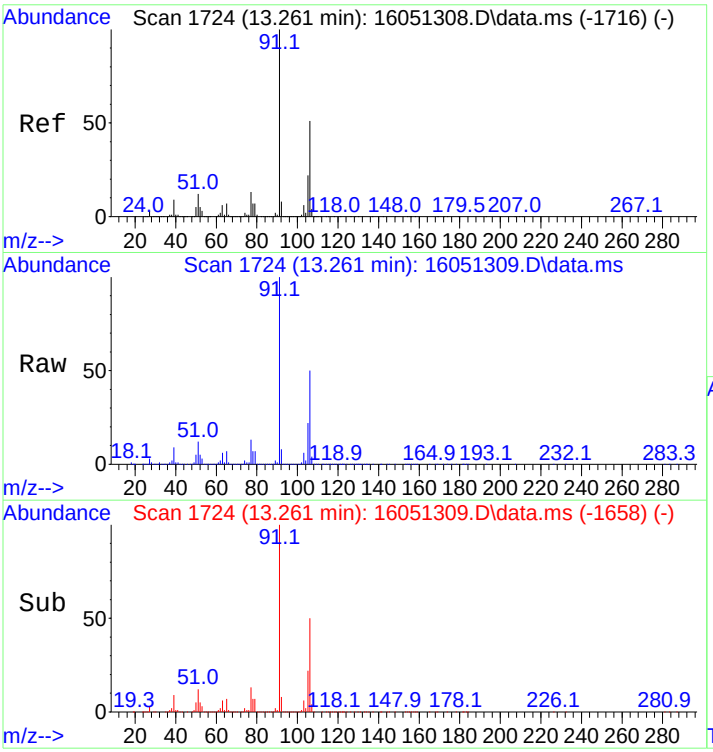


#41
Ethylbenzene
Concen: 371.90 ng
RT: 13.111 min Scan# 1704
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1314545

Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.5	38.3

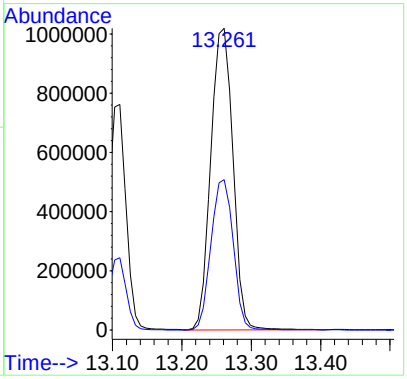


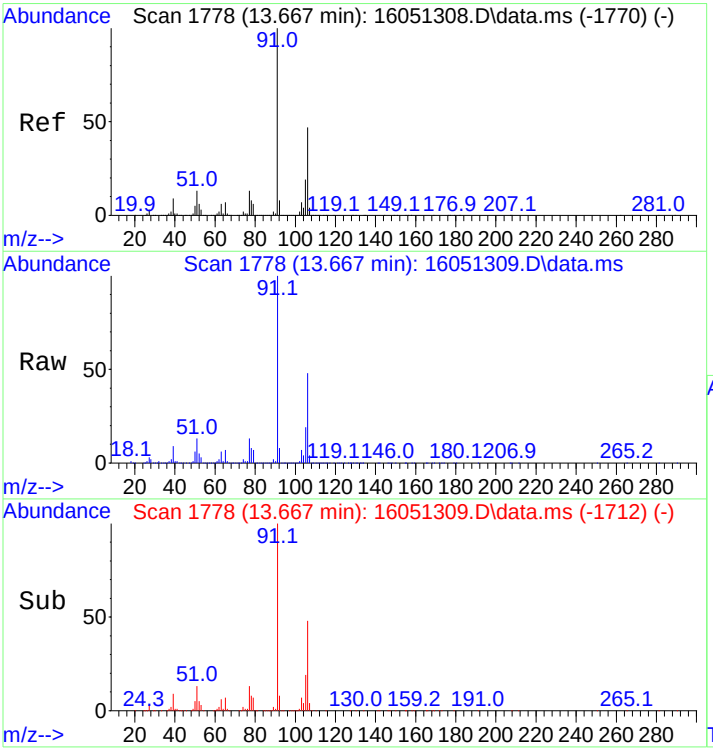


#42
M&P-Xylene
Concen: 753.78 ng
RT: 13.261 min Scan# 1724
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 2265781

Ion	Ratio	Lower	Upper
91	100		
106	50.0	40.4	60.6

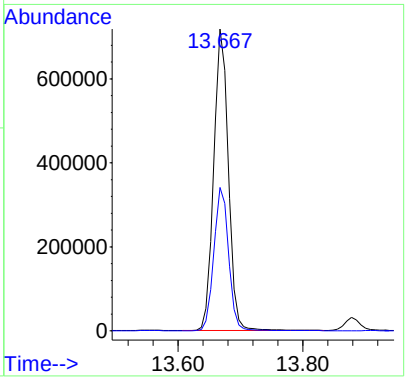


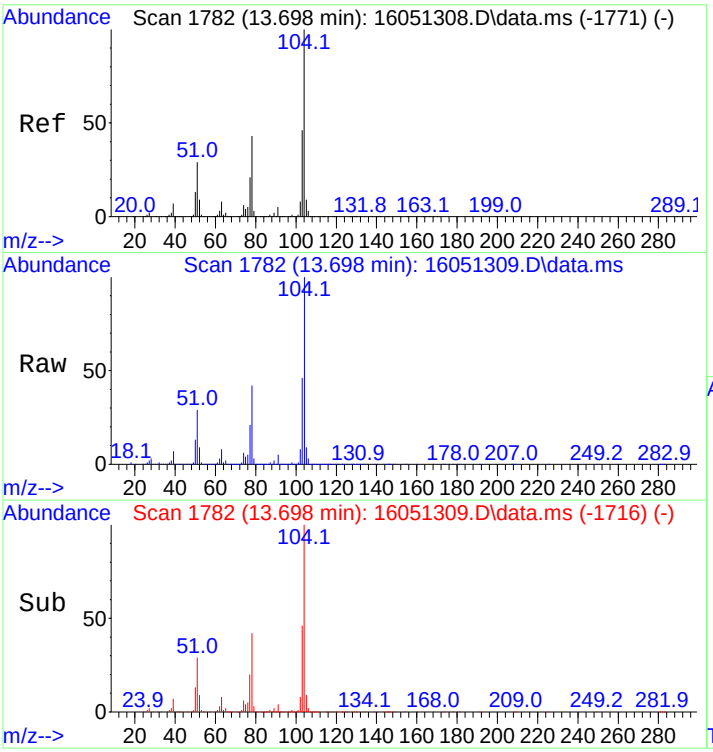


#43
O-Xylene
Concen: 375.92 ng
RT: 13.667 min Scan# 1778
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1171329

Ion	Ratio	Lower	Upper
91	100		
106	48.0	38.2	57.2

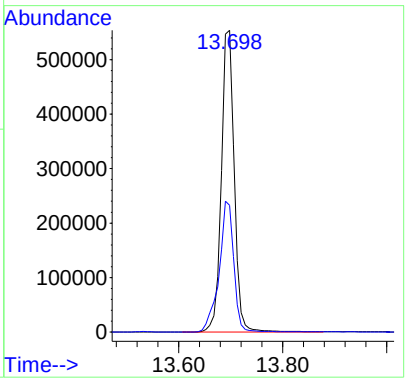


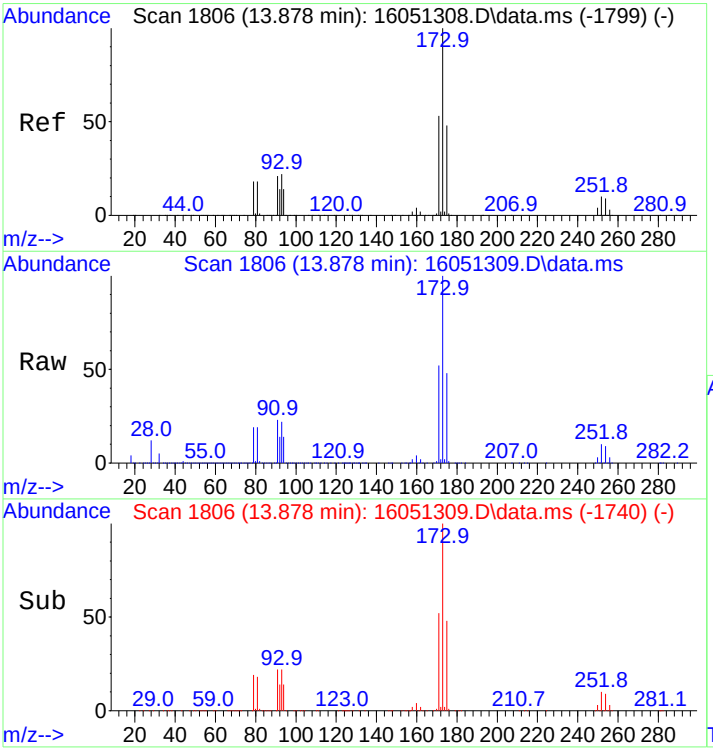


#44
Styrene
Concen: 358.31 ng
RT: 13.698 min Scan# 1782
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:104 Resp: 953014

Ion	Ratio	Lower	Upper
104	100		
78	49.3	39.8	59.6

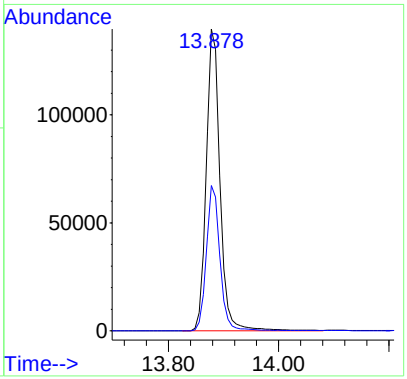


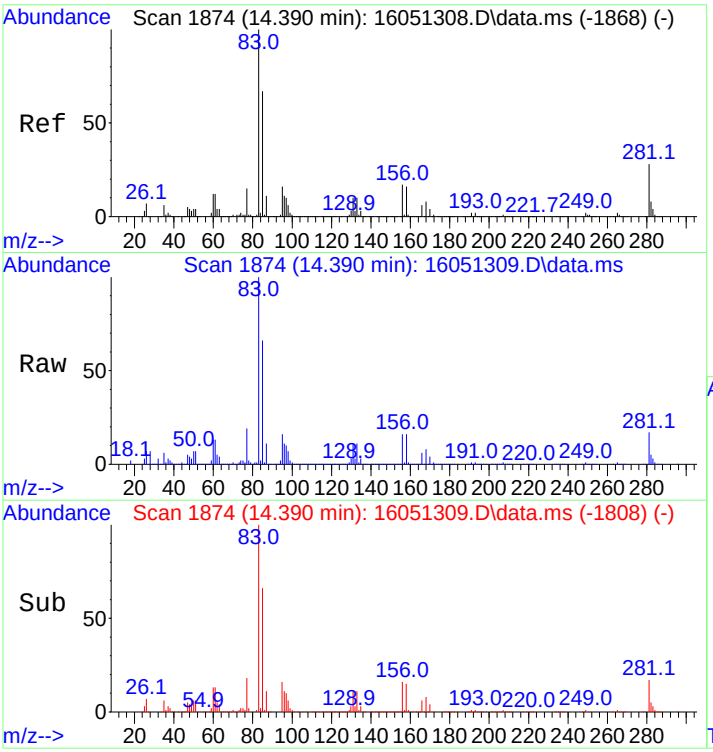


#45
Bromoform
Concen: 426.53 ng
RT: 13.878 min Scan# 1806
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:173 Resp: 245168

Ion	Ratio	Lower	Upper
173	100		
175	47.8	38.5	57.7

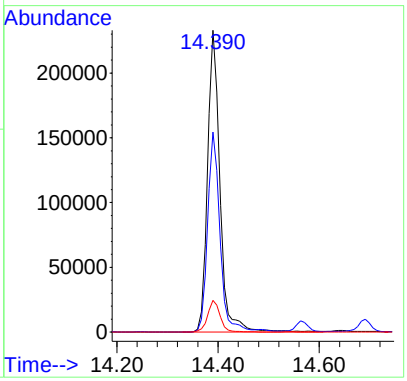


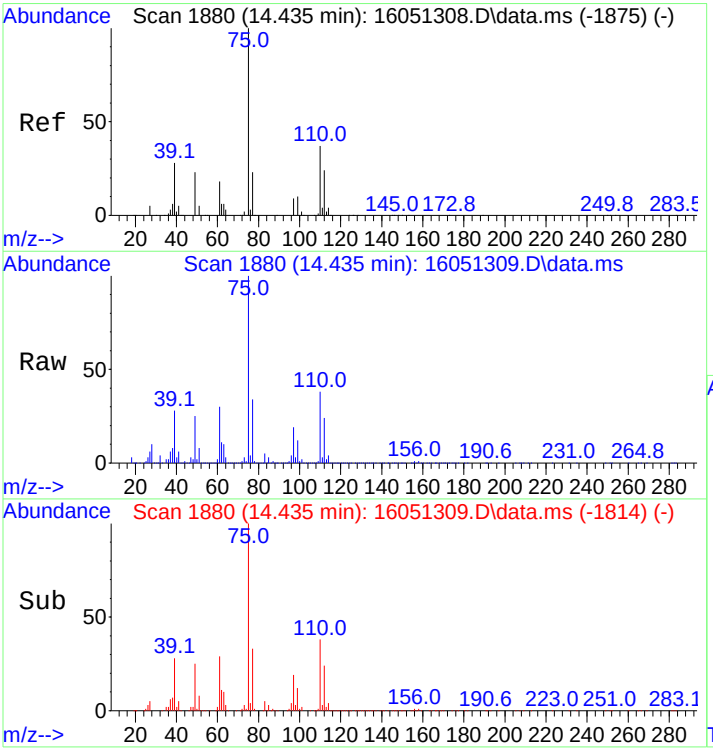


#46
1,1,2,2-Tetrachloroethane
Concen: 434.78 ng
RT: 14.390 min Scan# 1874
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 394949

Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.1	79.7
131	10.7	8.9	13.3

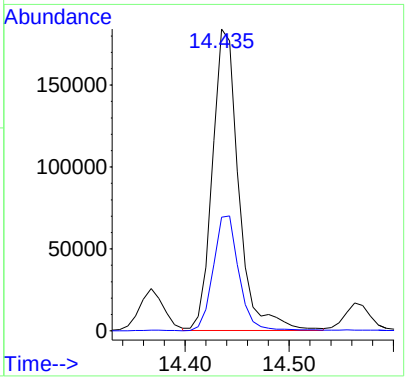


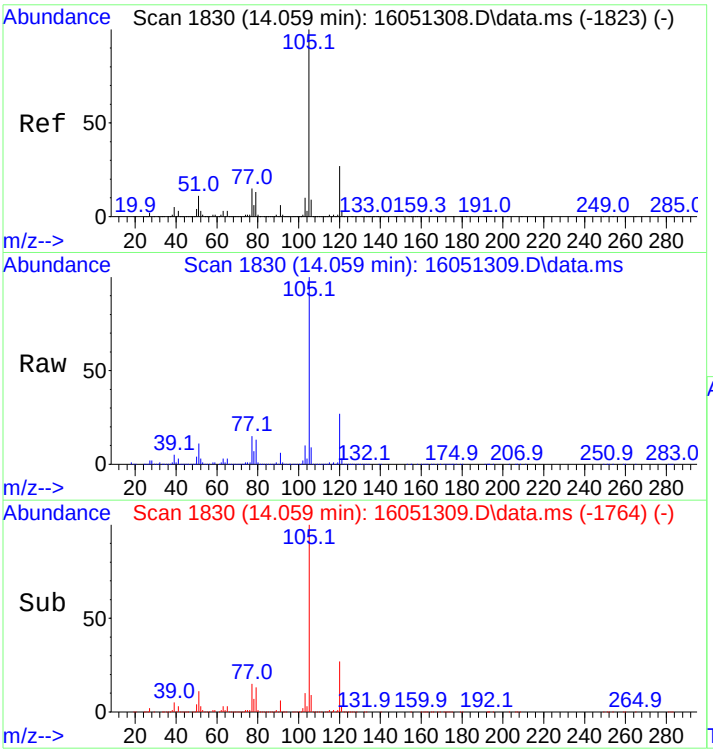


#47
1,2,3-Trichloropropane
Concen: 430.98 ng
RT: 14.435 min Scan# 1880
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 323400

Ion	Ratio	Lower	Upper
75	100		
110	37.2	30.5	45.7

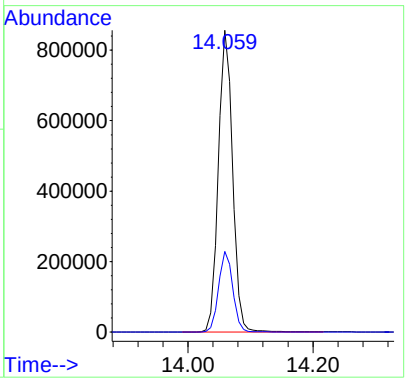


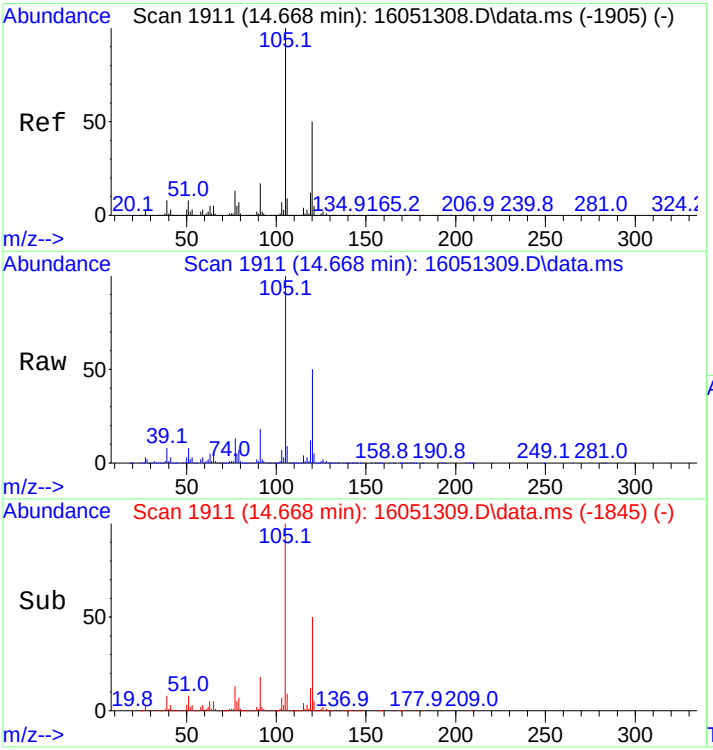


#51
Isopropylbenzene
Concen: 374.59 ng
RT: 14.059 min Scan# 1830
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1356514

Ion	Ratio	Lower	Upper
105	100		
120	26.7	21.4	32.2

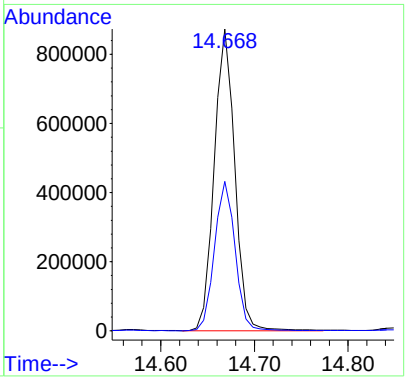


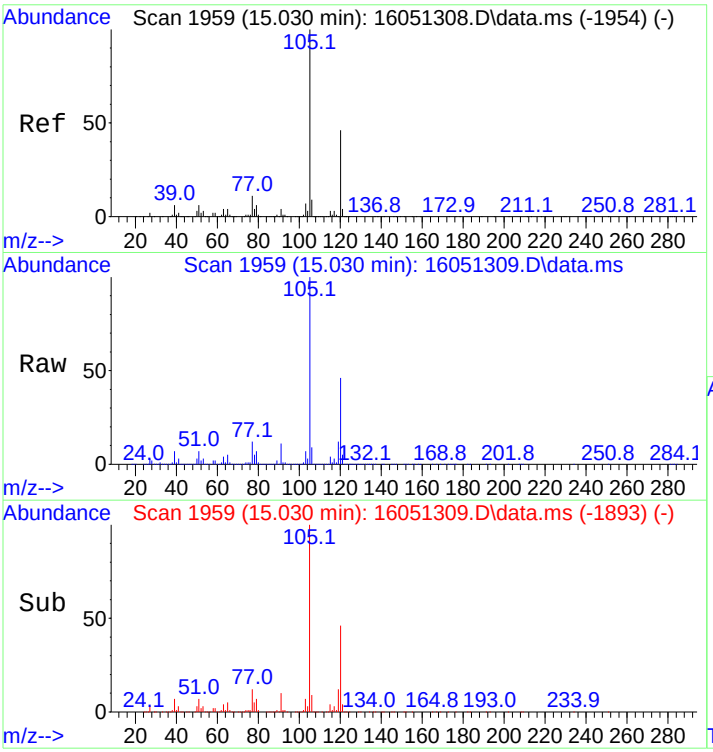


#52
1,3,5-Trimethylbenzene
Concen: 376.97 ng
RT: 14.668 min Scan# 1911
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1330437

Ion	Ratio	Lower	Upper
105	100		
120	49.6	39.9	59.9

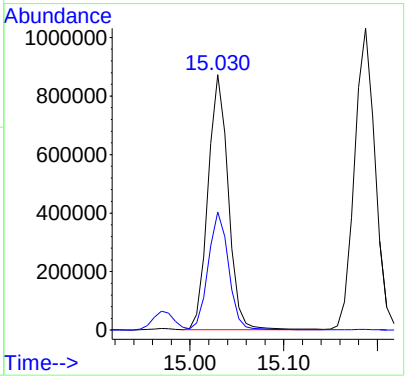


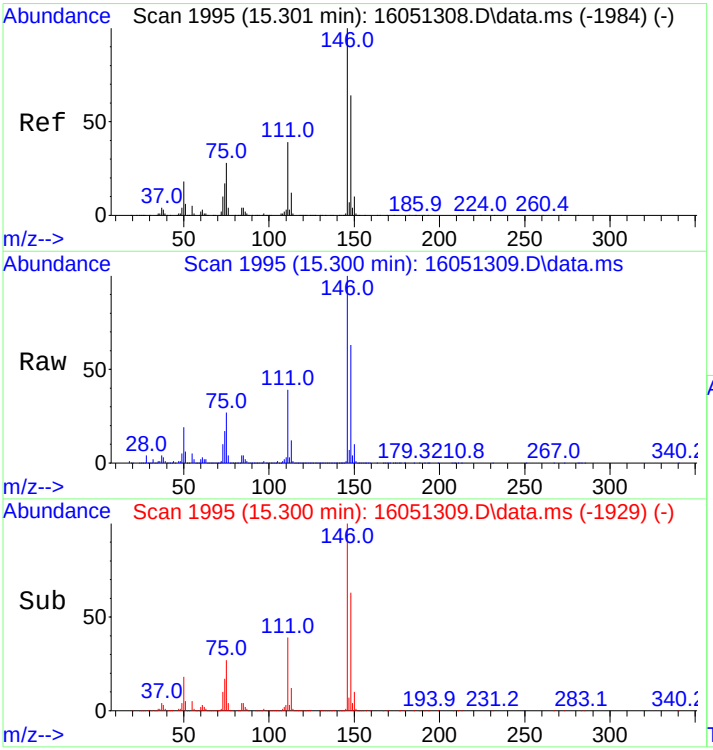


#53
1,2,4-Trimethylbenzene
Concen: 377.45 ng
RT: 15.030 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1315325

Ion	Ratio	Lower	Upper
105	100		
120	46.5	37.5	56.3

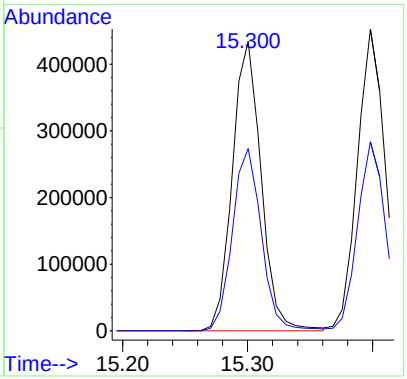


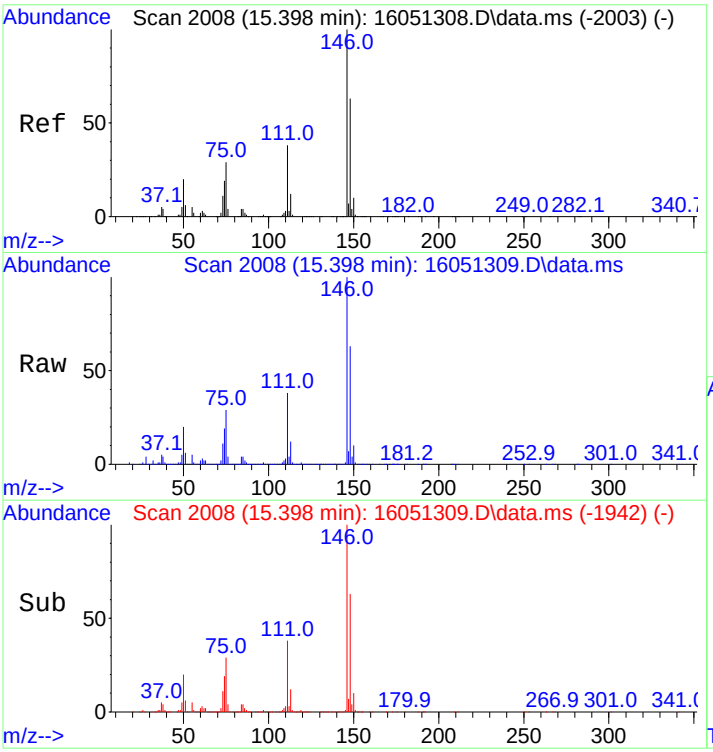


#54
1,3-Dichlorobenzene
Concen: 383.73 ng
RT: 15.300 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:146 Resp: 697860

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	76.0

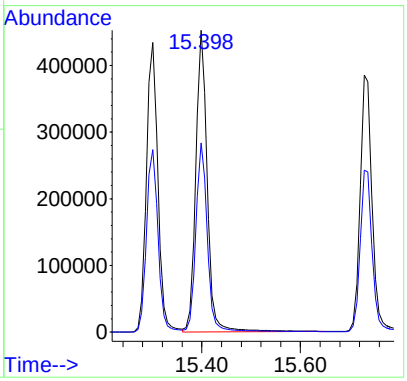


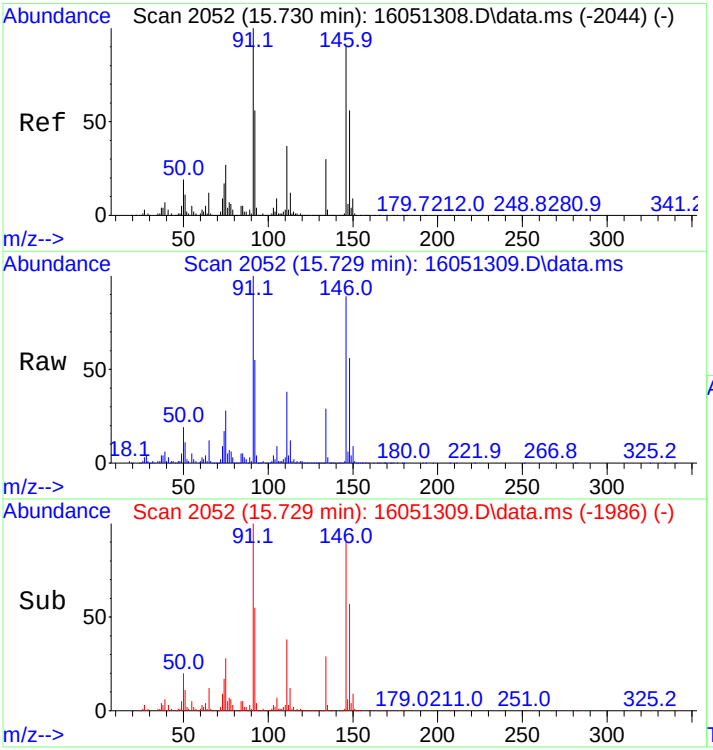


#55
1,4-Dichlorobenzene
Concen: 380.81 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:146 Resp: 732033

Ion	Ratio	Lower	Upper
146	100		
148	63.1	49.9	74.9

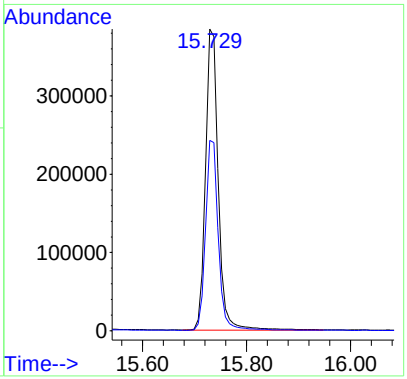


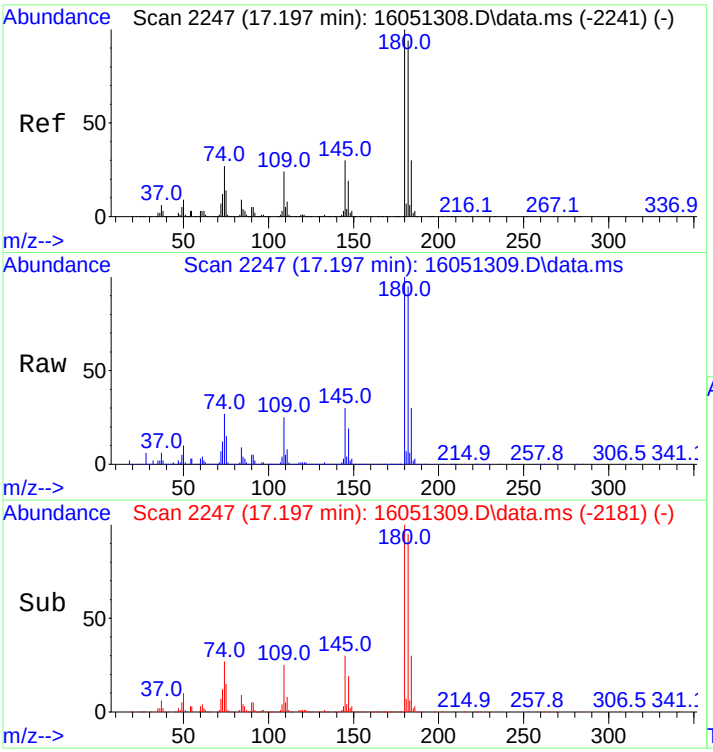


#56
1,2-Dichlorobenzene
Concen: 378.48 ng
RT: 15.729 min Scan# 2052
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:146 Resp: 651027

Ion	Ratio	Lower	Upper
146	100		
148	63.5	49.9	74.9

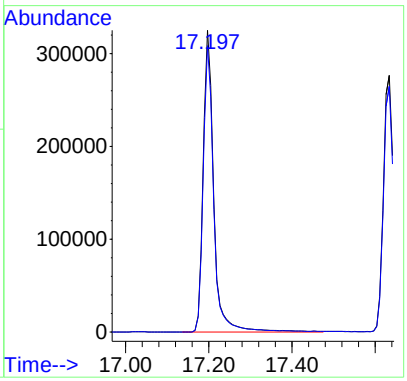


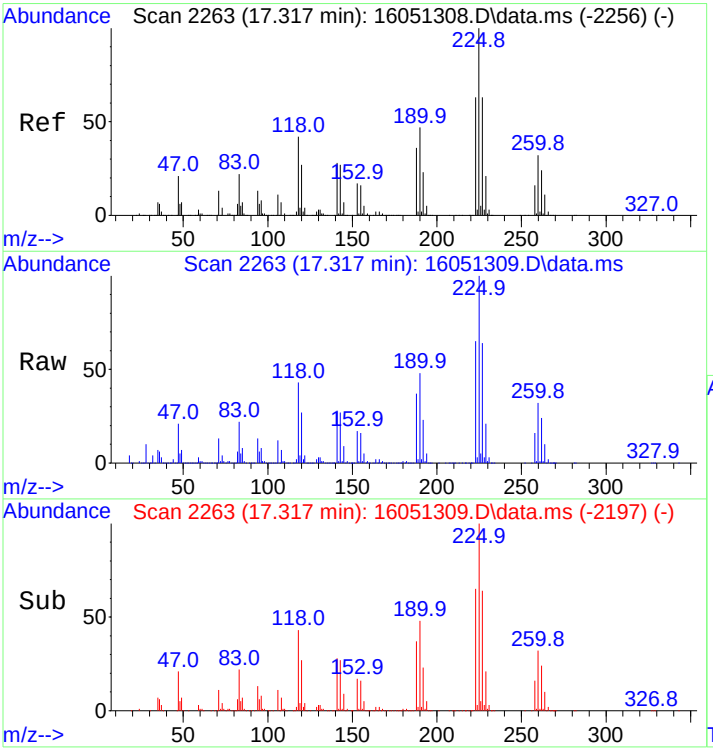


#57
1,2,4-Trichlorobenzene
Concen: 391.37 ng
RT: 17.197 min Scan# 2247
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:180 Resp: 570982

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.0	112.4

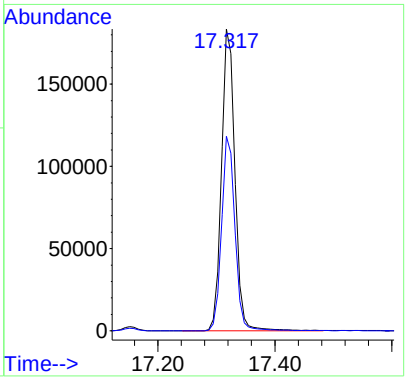


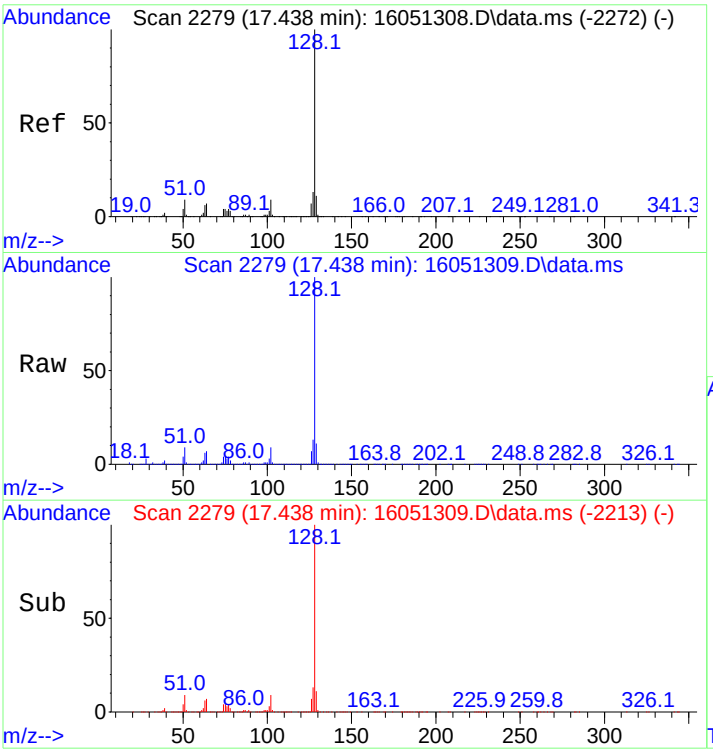


#58
Hexachlorobutadiene
Concen: 382.06 ng
RT: 17.317 min Scan# 2263
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:225 Resp: 292993

Ion	Ratio	Lower	Upper
225	100		
227	64.3	51.1	76.7

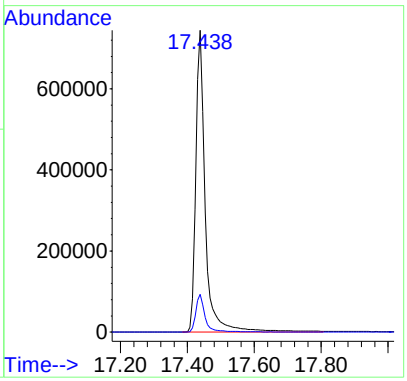


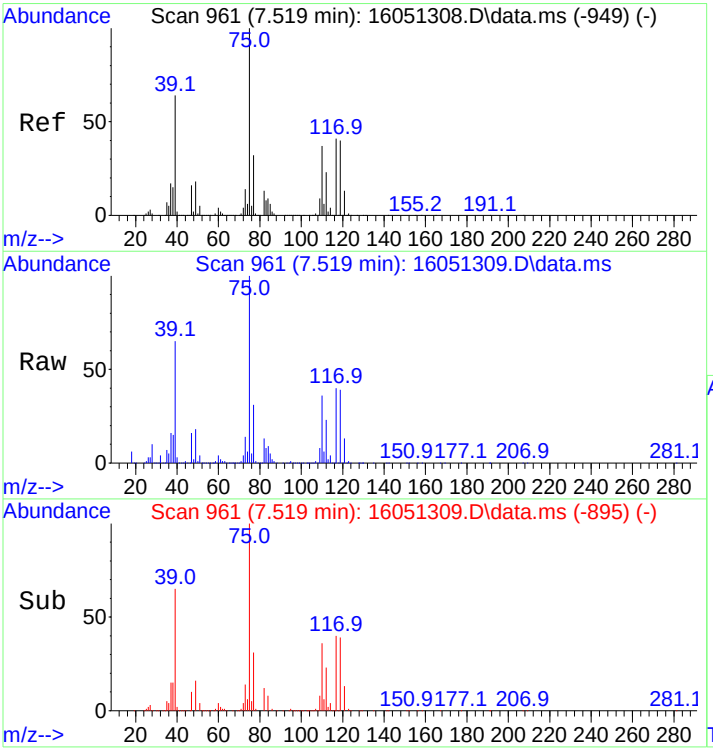


#59
Naphthalene
Concen: 408.09 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:128 Resp: 1461347

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

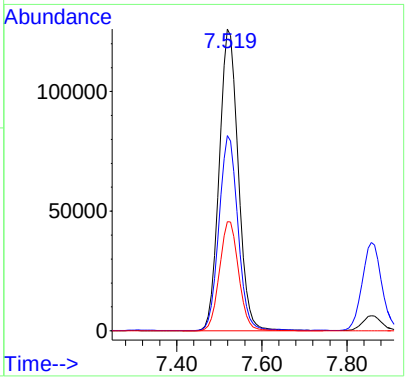


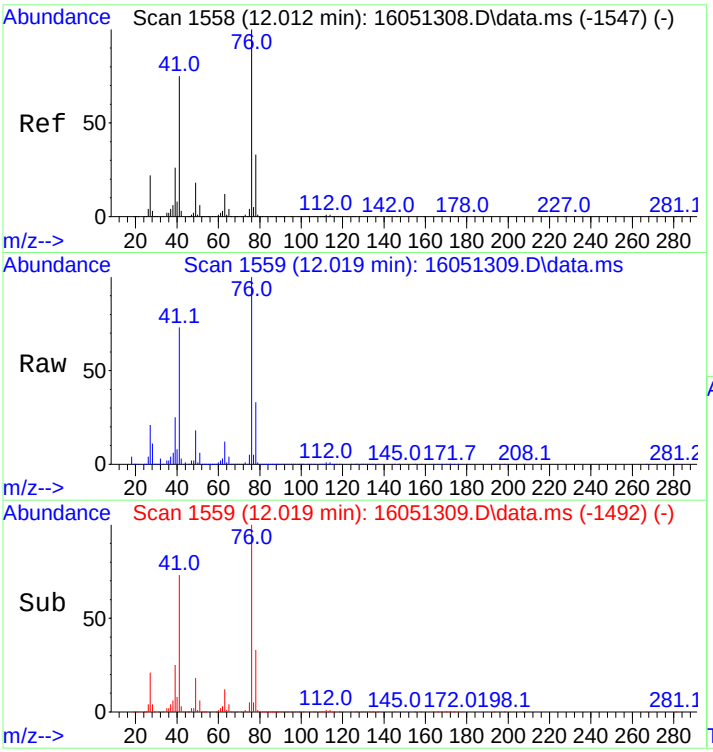


#60
1,1-Dichloropropene
Concen: 392.95 ng
RT: 7.519 min Scan# 961
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 391756

Ion	Ratio	Lower	Upper
75	100		
39	64.2	51.8	77.6
110	36.5	29.3	43.9

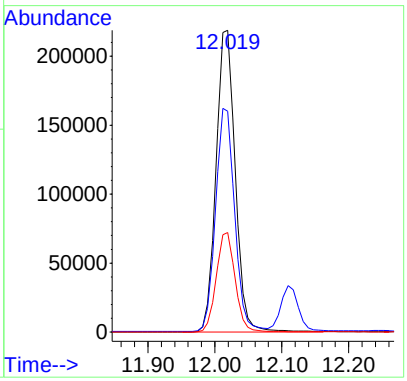


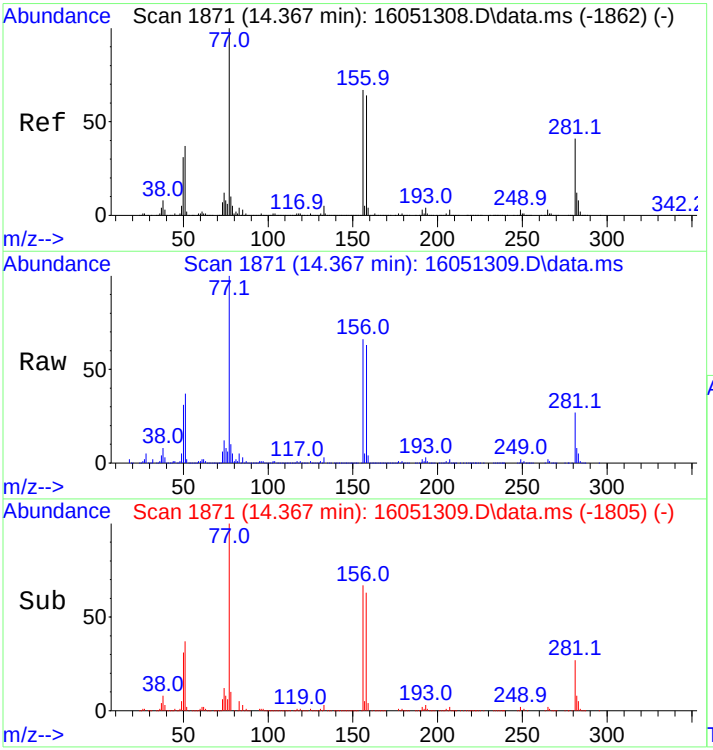


#61
1,3-Dichloropropane
Concen: 392.80 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.007 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 76 Resp: 436776

Ion	Ratio	Lower	Upper
76	100		
41	73.5	58.2	87.4
78	32.6	26.1	39.1

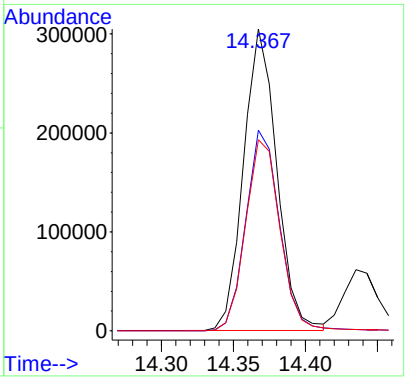


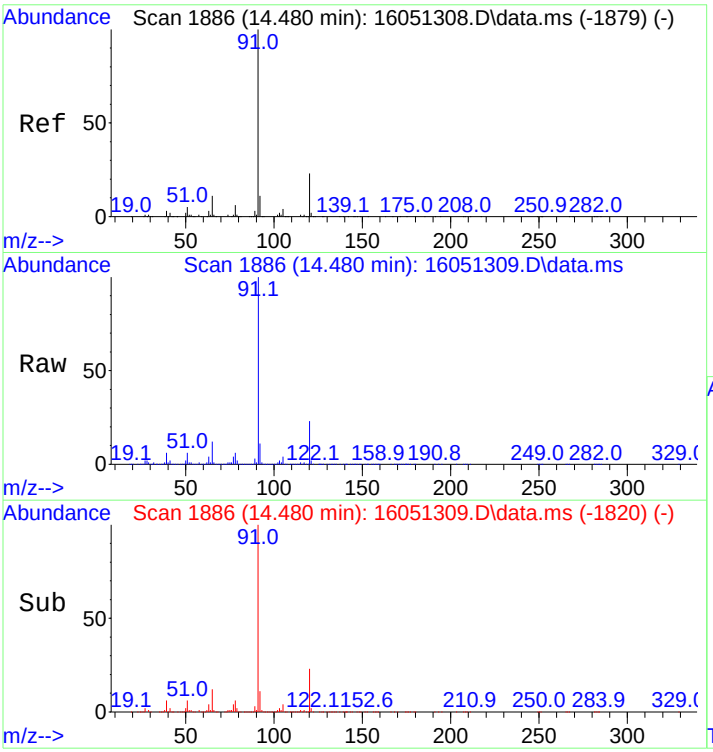


#62
Bromobenzene
Concen: 379.15 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 77 Resp: 488632

Ion	Ratio	Lower	Upper
77	100		
156	68.4	55.0	82.4
158	66.4	53.3	79.9

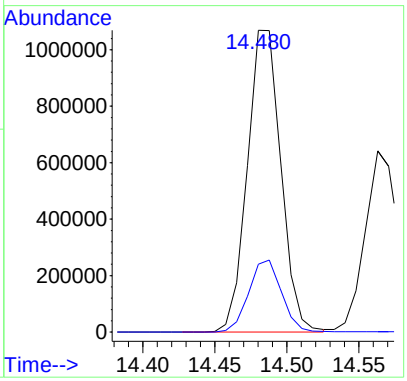


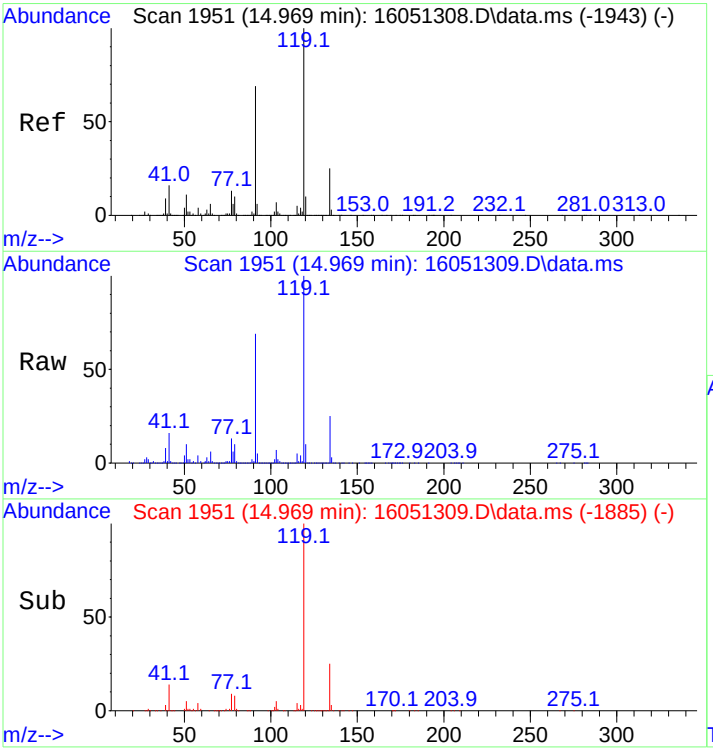


#63
n-Propylbenzene
Concen: 376.71 ng
RT: 14.480 min Scan# 1886
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1726405

Ion	Ratio	Lower	Upper
91	100		
120	23.4	18.6	28.0

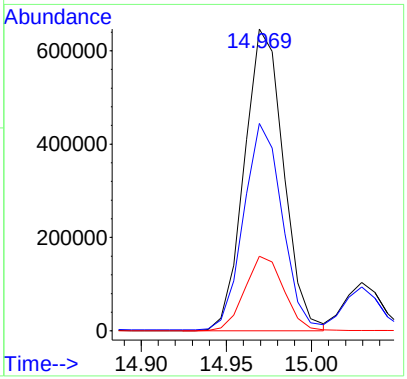


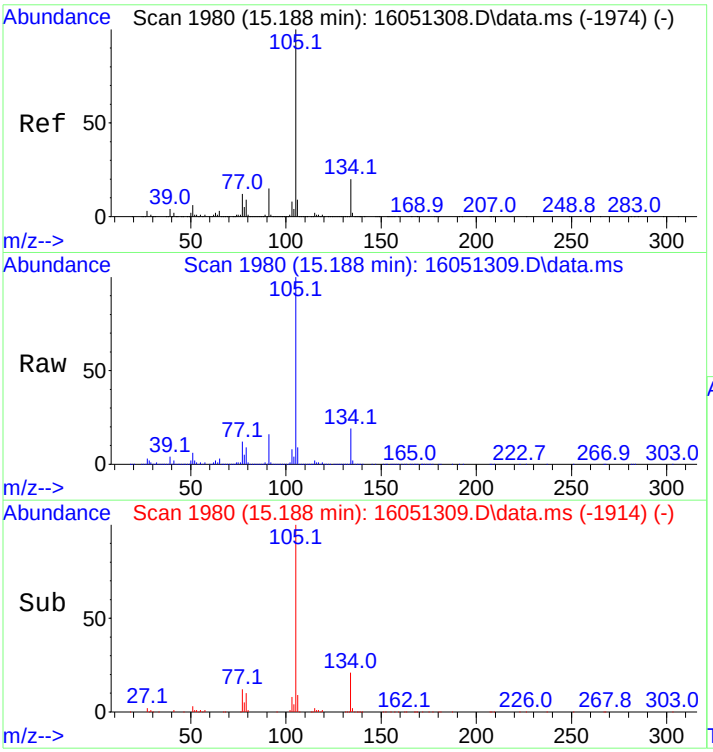


#64
tert-Butylbenzene
Concen: 377.65 ng
RT: 14.969 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:119 Resp: 1036046

Ion	Ratio	Lower	Upper
119	100		
91	67.4	54.0	81.0
134	24.9	19.9	29.9

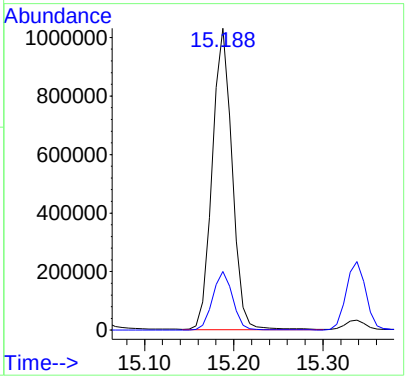


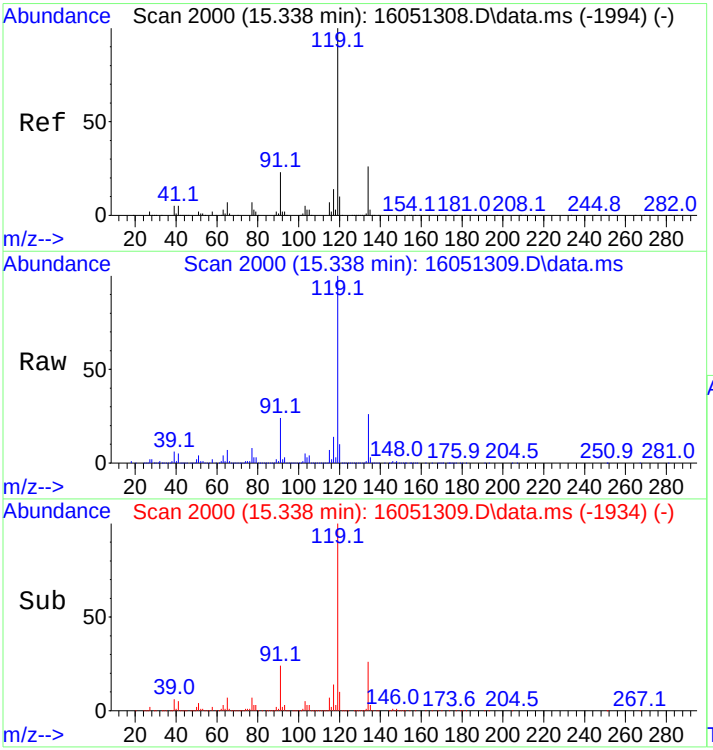


#65
sec-Butylbenzene
Concen: 377.17 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1594526

Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.7	23.5

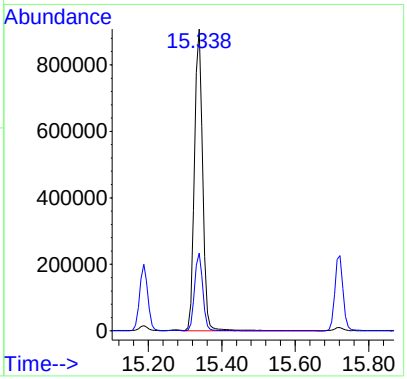


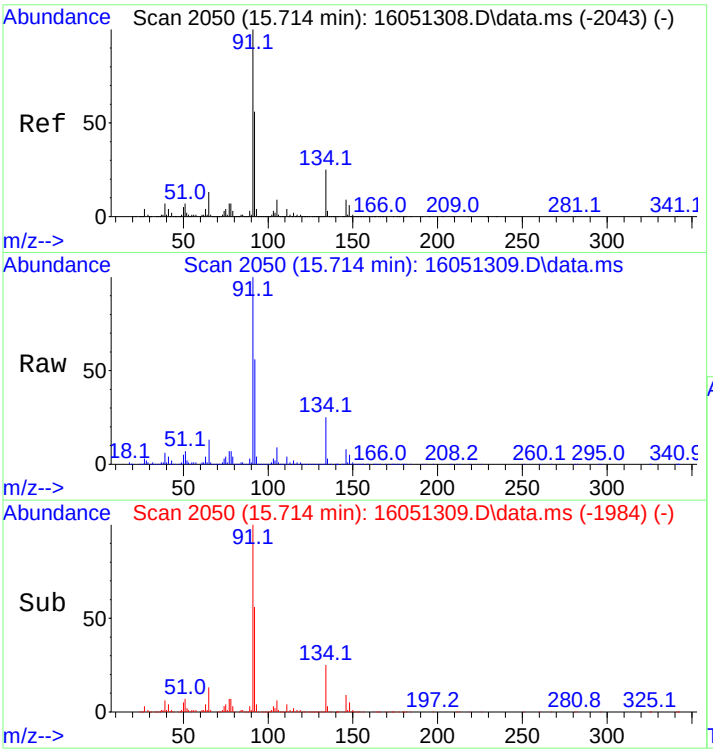


#66
p-Isopropyltoluene
Concen: 377.19 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:119 Resp: 1405815

Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	31.0

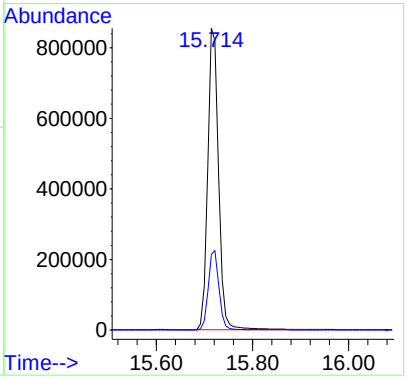


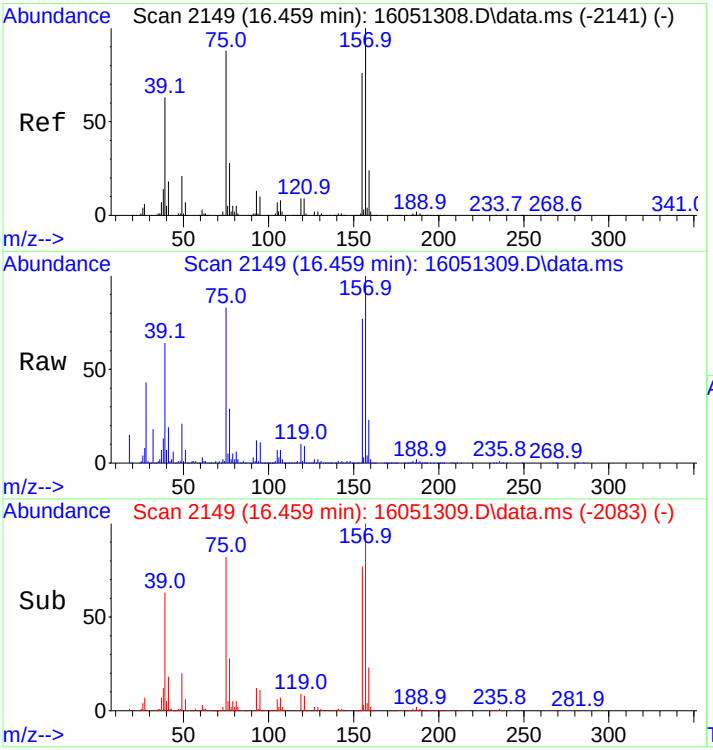


#67
n-Butylbenzene
Concen: 373.16 ng
RT: 15.714 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1344571

Ion	Ratio	Lower	Upper
91	100		
134	26.2	21.0	31.6

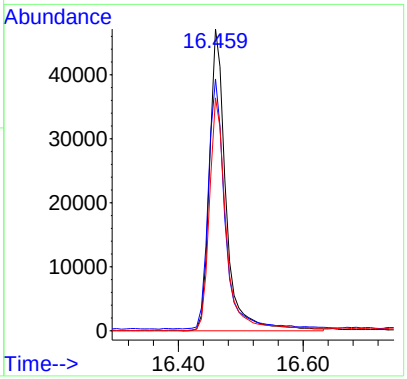




#68
1,2-Dibromo-3-chloropropane
Concen: 382.86 ng
RT: 16.459 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:157 Resp: 86624

Ion	Ratio	Lower	Upper
157	100		
75	84.9	68.6	103.0
155	80.1	62.2	93.2



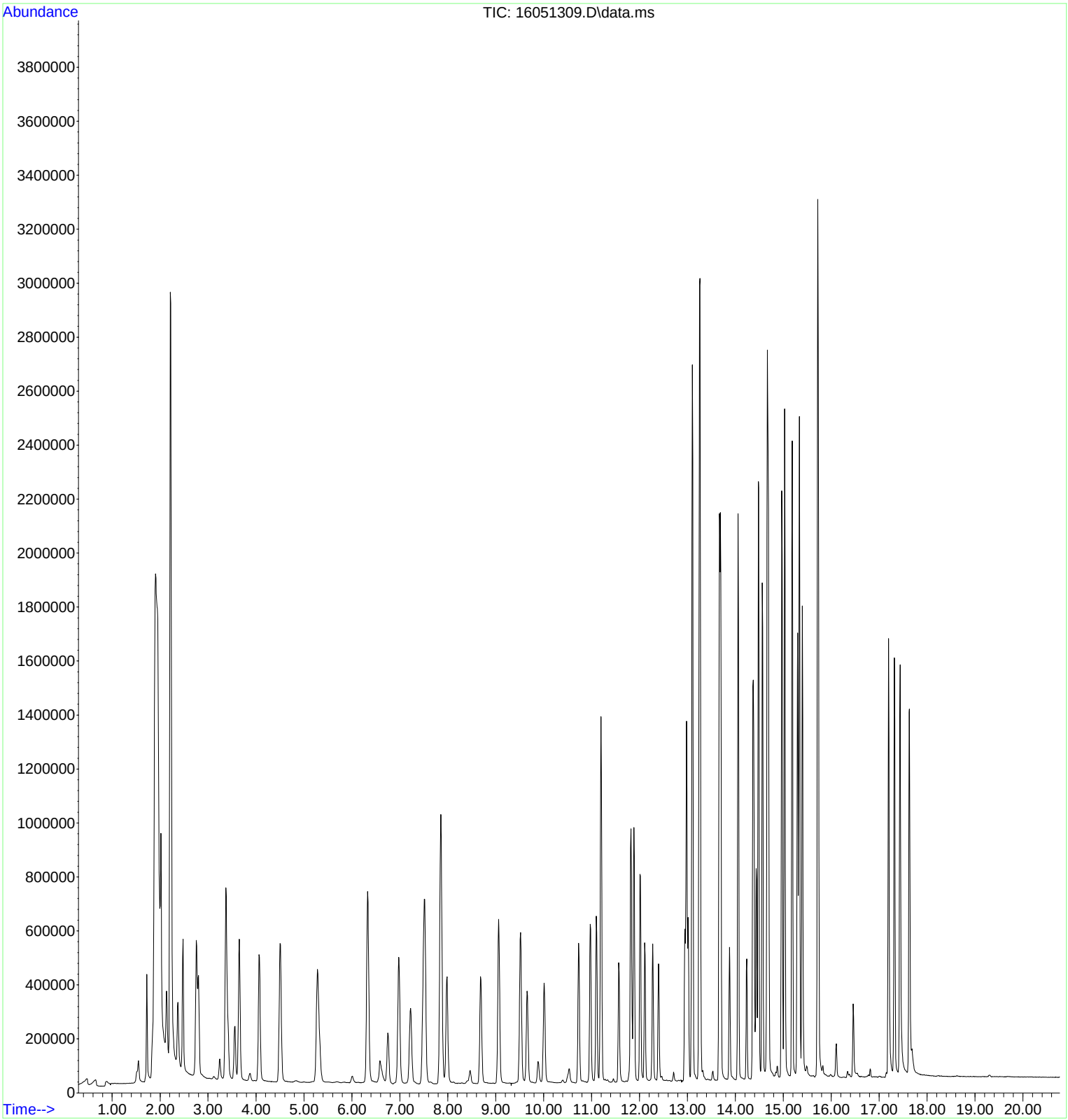
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

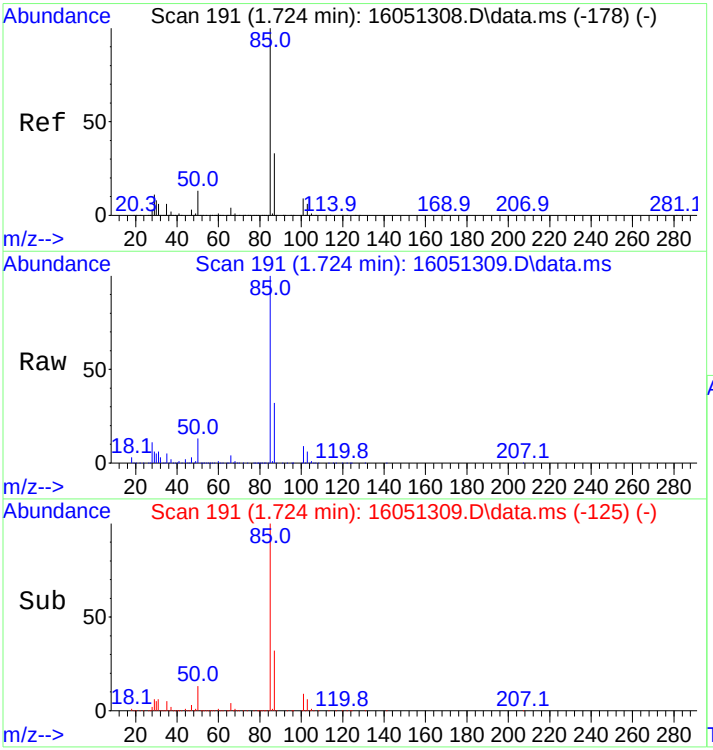
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051309.D
Acq On : 13 May 2016 3:56 pm
Operator : SG Instrument MSD-3
Sample : 375NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:45:43 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:44:44 2016
Response via : Initial Calibration

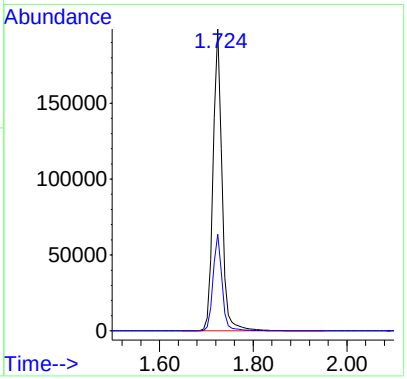


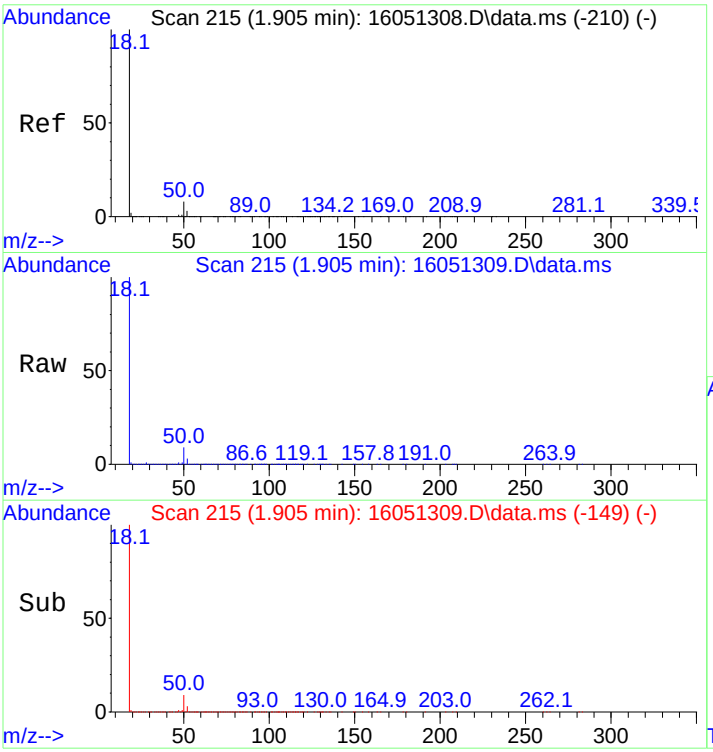


#2
Dichlorodifluoromethane
Concen: 415.16 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 85 Resp: 264326

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.0	39.0

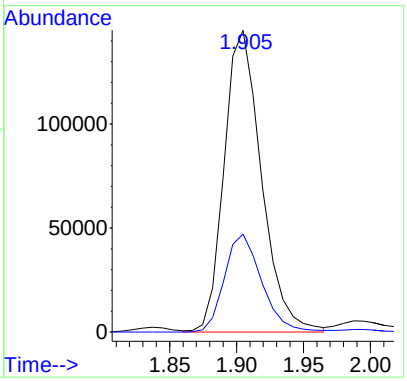


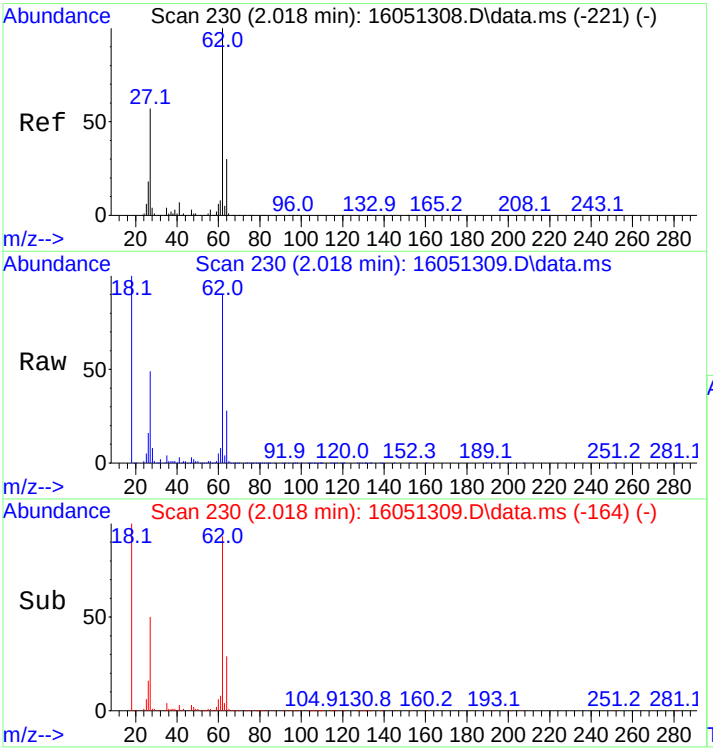


#3
Chloromethane
Concen: 373.18 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 50 Resp: 281779

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.0	39.0

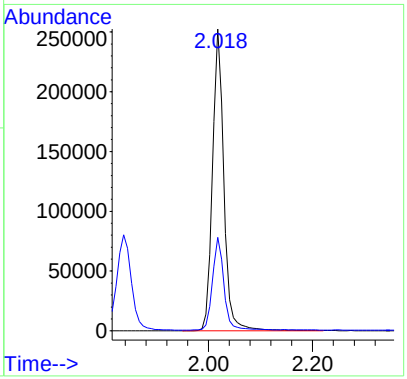


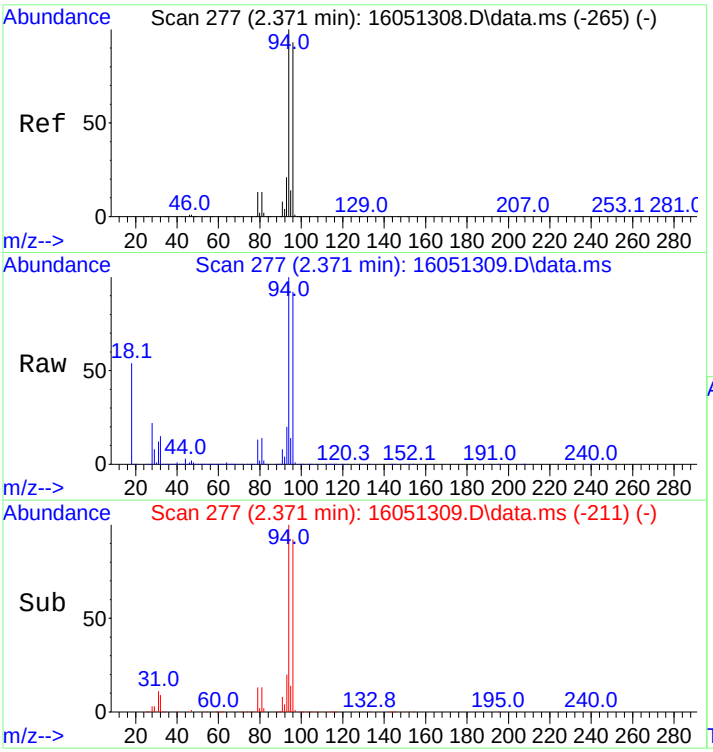


#4
Vinyl Chloride
Concen: 422.67 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 62 Resp: 383570

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.7	38.5

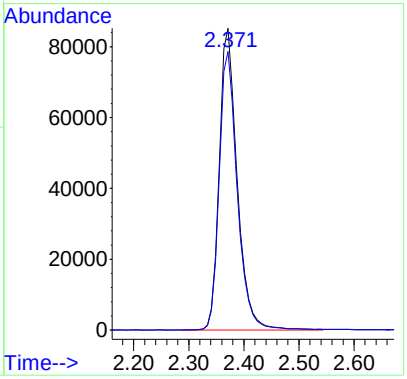


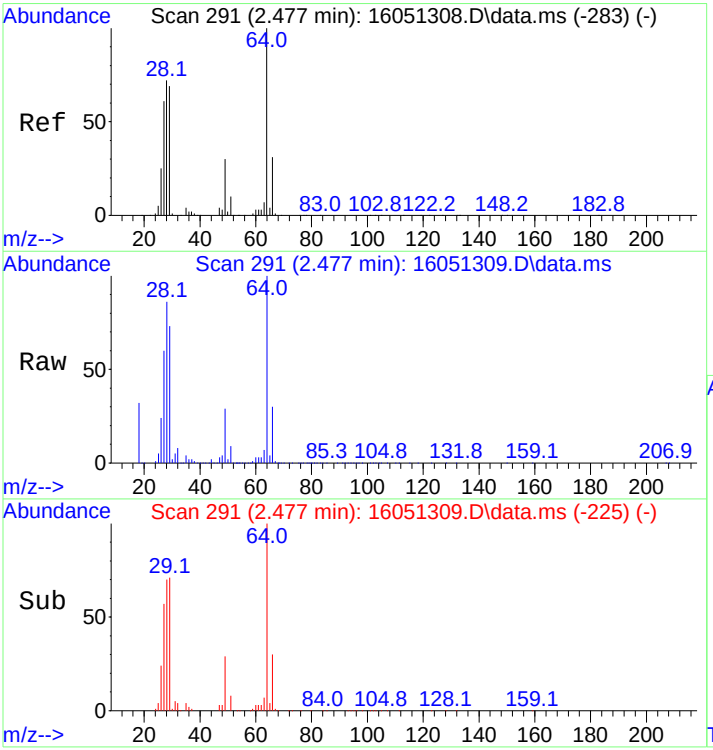


#5
Bromomethane
Concen: 476.12 ng
RT: 2.371 min Scan# 277
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 94 Resp: 192035

Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7

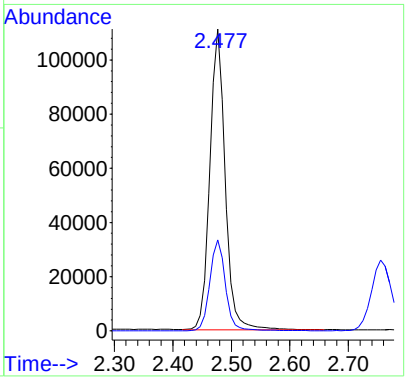


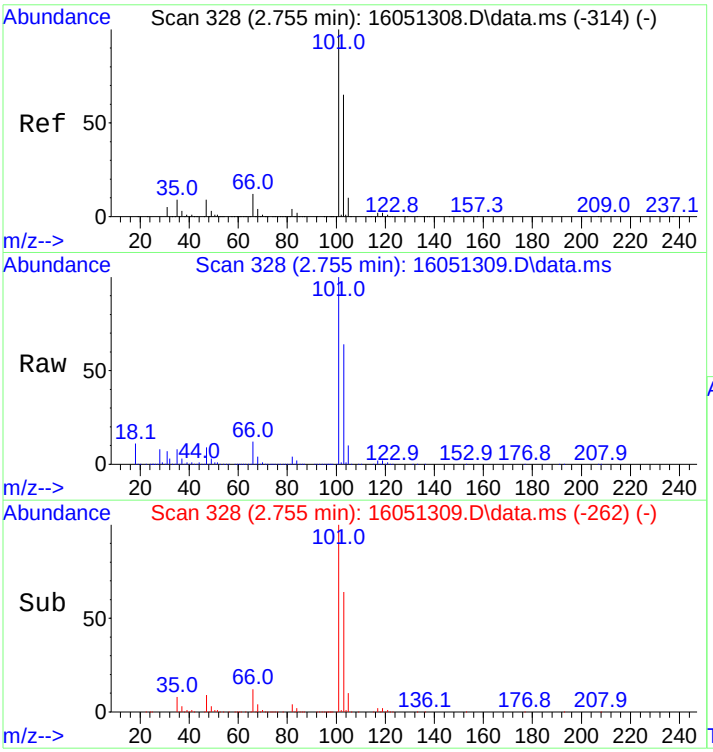


#6
Chloroethane
Concen: 427.48 ng
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 64 Resp: 201989

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4

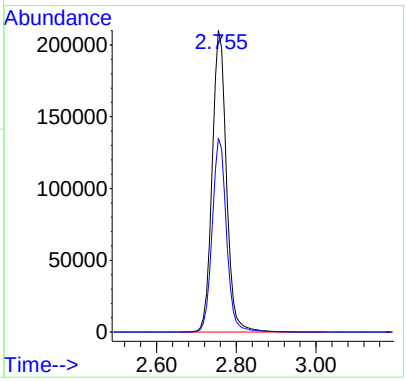


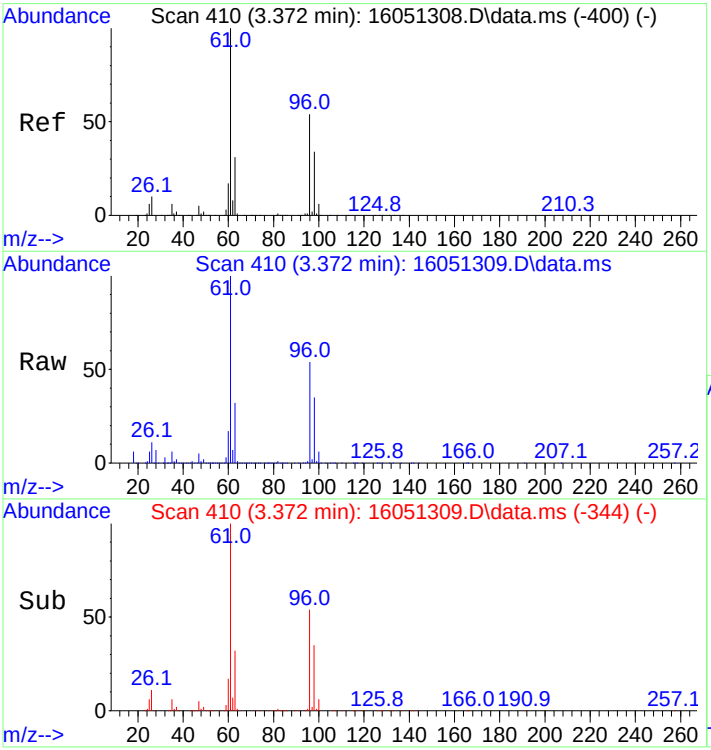


#7
Trichlorofluoromethane
Concen: 385.03 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:101 Resp: 521183

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.8	77.6

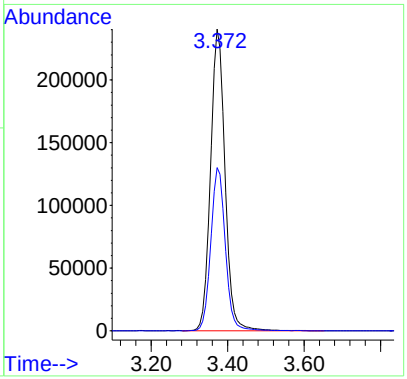


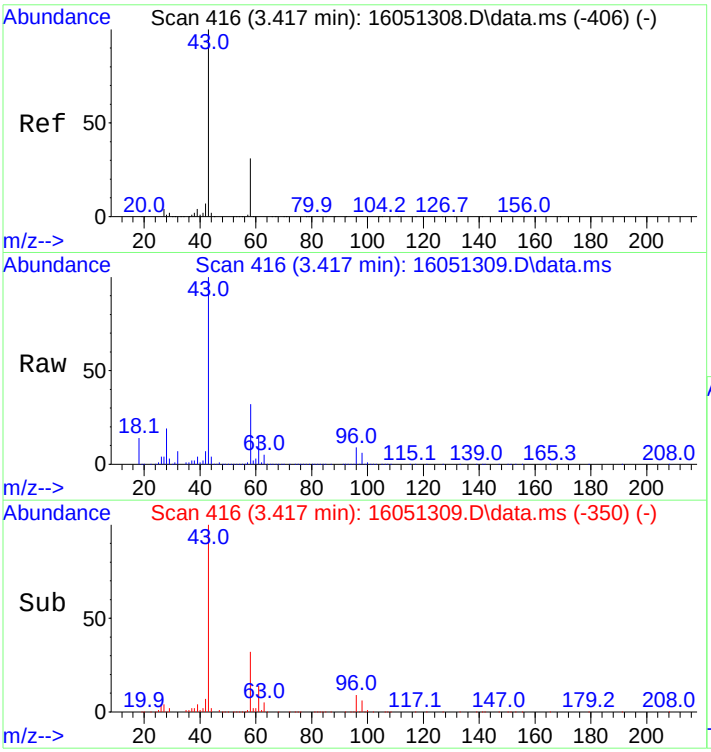


#8
1,1-Dichloroethene
Concen: 386.40 ng
RT: 3.372 min Scan# 410
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 61 Resp: 630392

Ion	Ratio	Lower	Upper
61	100		
96	54.2	44.1	66.1

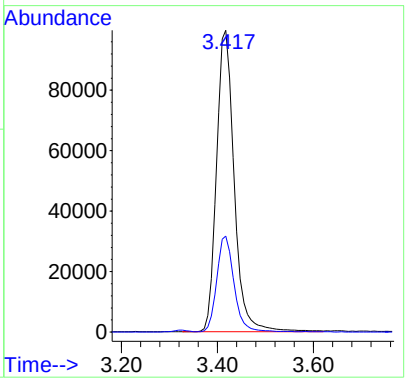


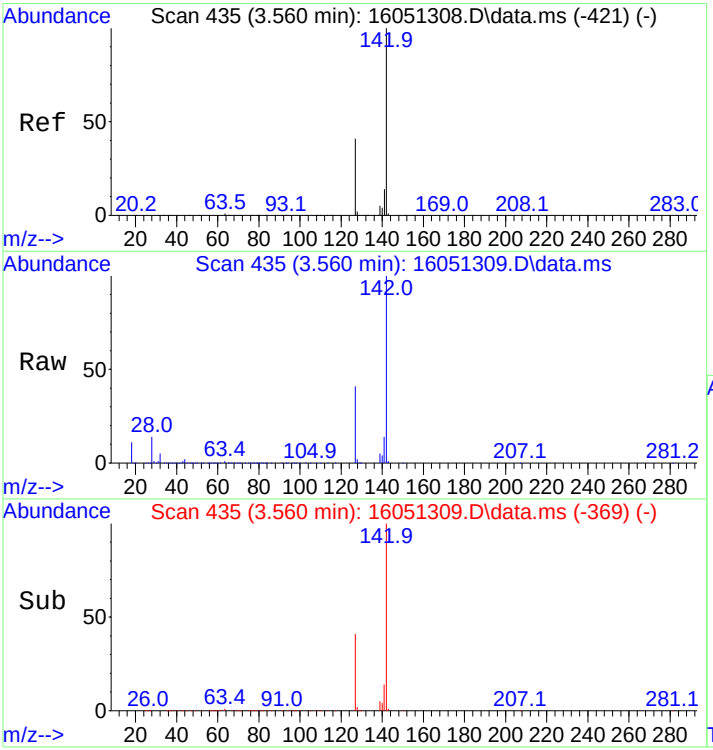


#9
Acetone
Concen: 420.19 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 255141

Ion	Ratio	Lower	Upper
43	100		
58	31.3	24.7	37.1

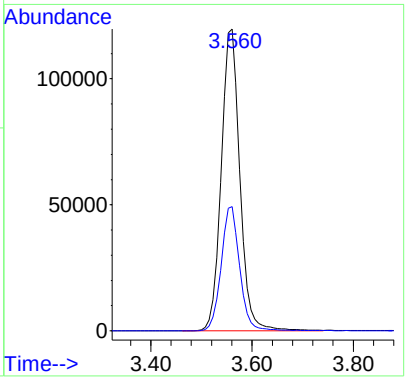


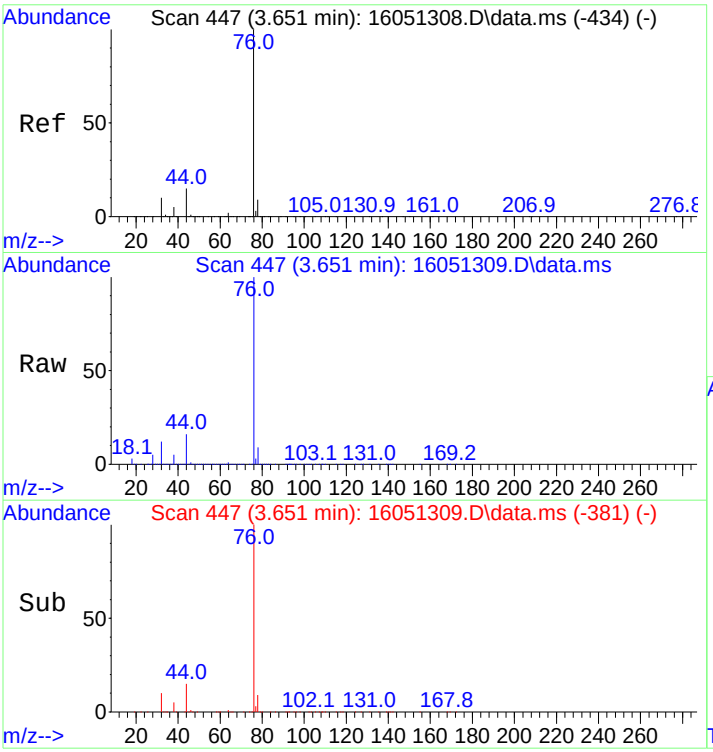


#10
Iodomethane
Concen: 474.12 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:142 Resp: 306800

Ion	Ratio	Lower	Upper
142	100		
127	41.1	32.8	49.2

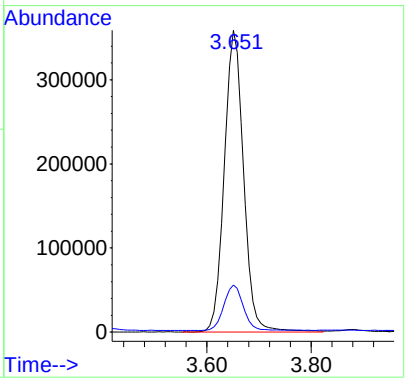


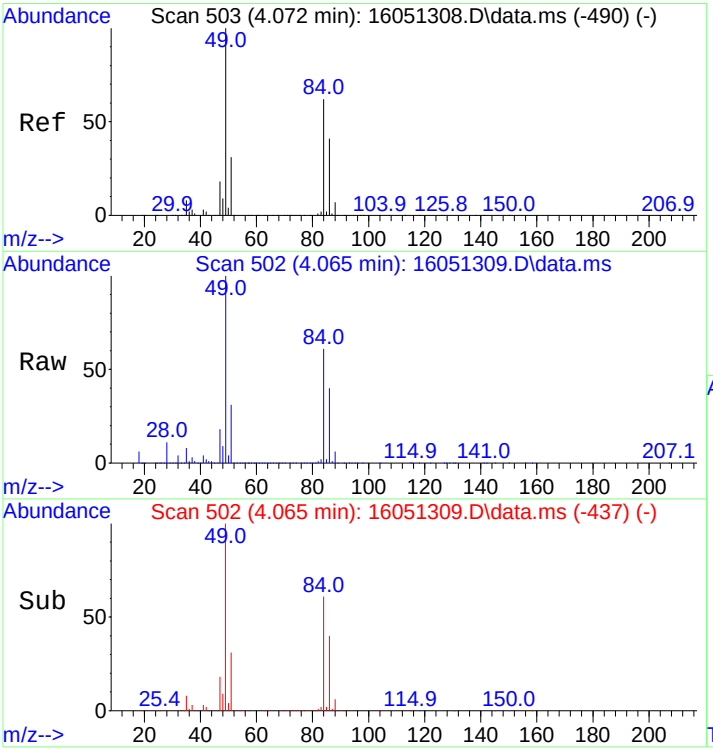


#11
Carbon disulfide
Concen: 360.90 ng
RT: 3.651 min Scan# 447
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 76 Resp: 921717

Ion	Ratio	Lower	Upper
76	100		
44	15.1	12.2	18.4

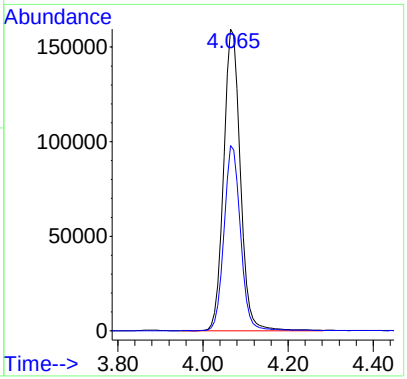


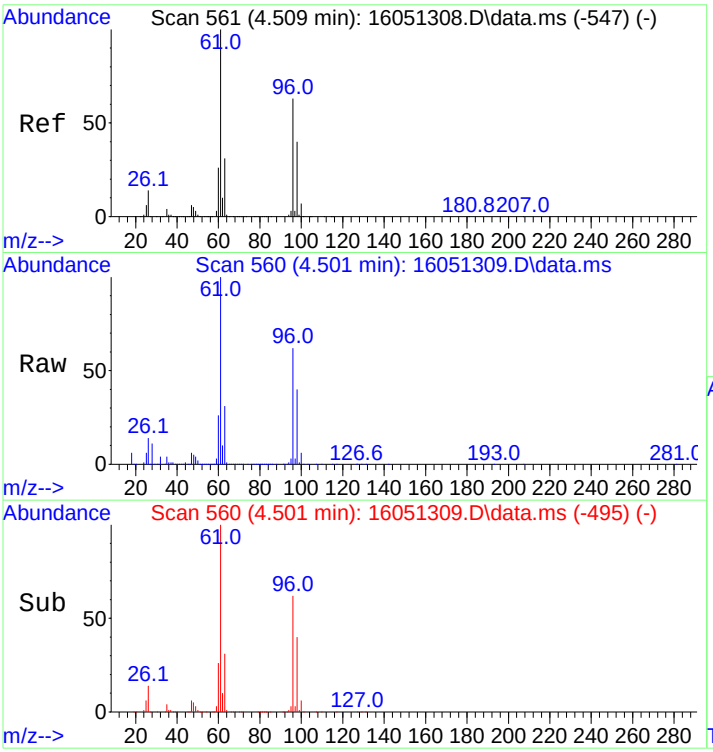


#12
Methylene Chloride
Concen: 385.72 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.008 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 49 Resp: 435498

Ion	Ratio	Lower	Upper
49	100		
84	60.7	48.4	72.6

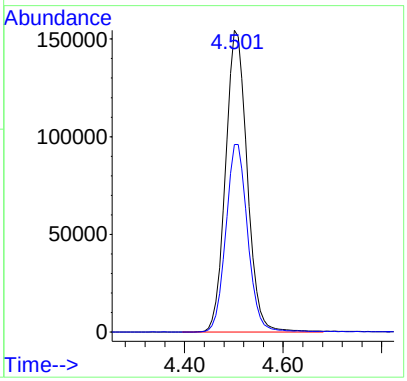


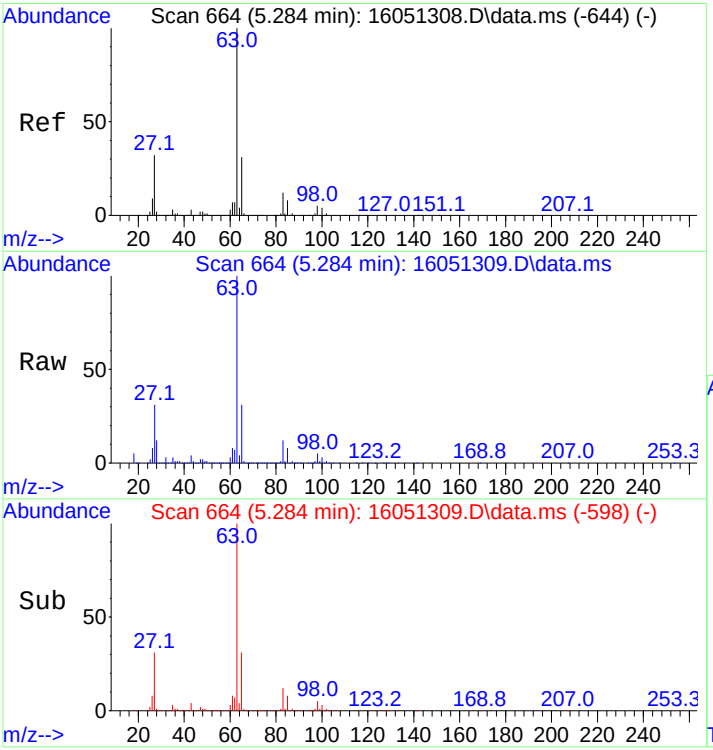


#13
trans,1,2-Dichloroethene
Concen: 434.17 ng
RT: 4.501 min Scan# 560
Delta R.T. -0.008 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 61 Resp: 470184

Ion	Ratio	Lower	Upper
61	100		
96	62.6	50.2	75.4

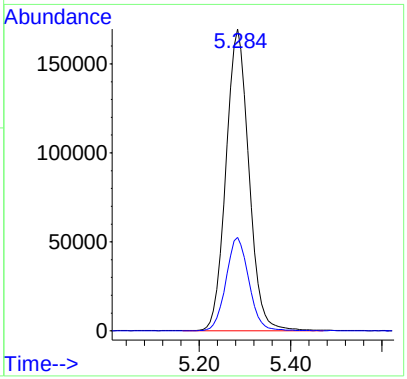


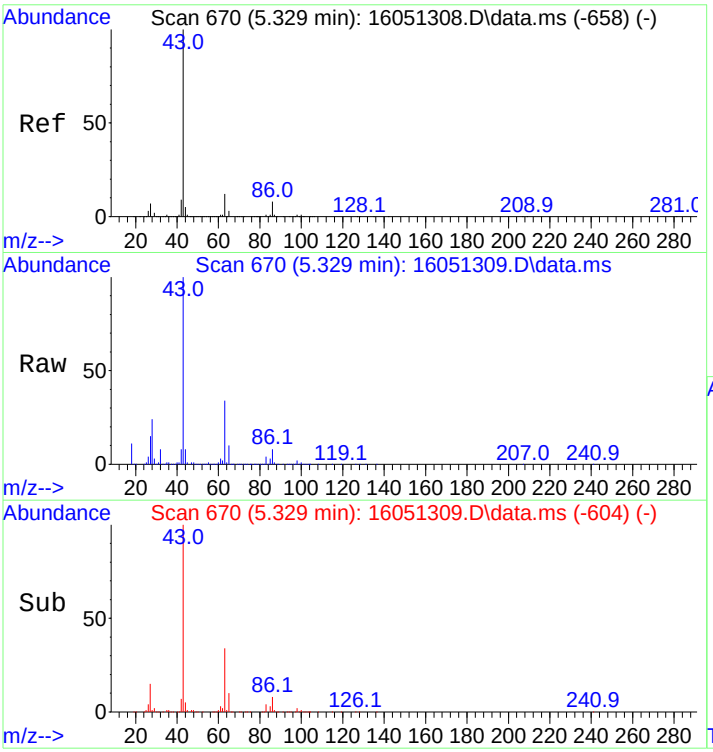


#14
1,1-Dichloroethane
Concen: 439.16 ng
RT: 5.284 min Scan# 664
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 63 Resp: 589864

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0

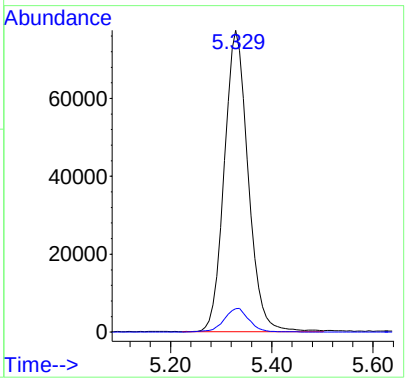


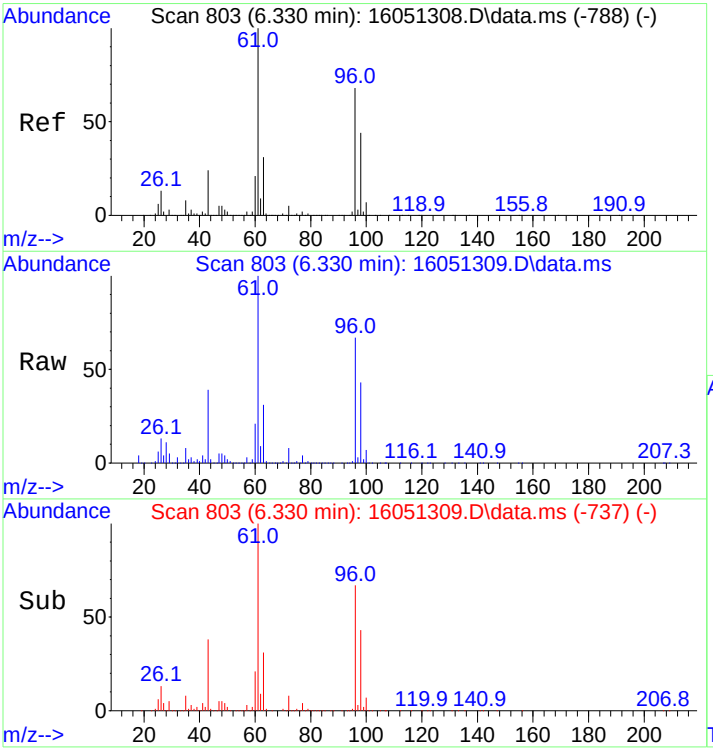


#15
Vinyl Acetate
Concen: 370.87 ng
RT: 5.329 min Scan# 670
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 253812

Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.6	9.8

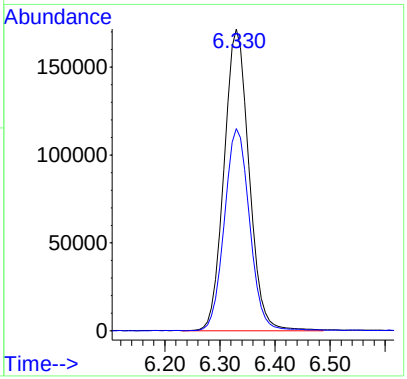


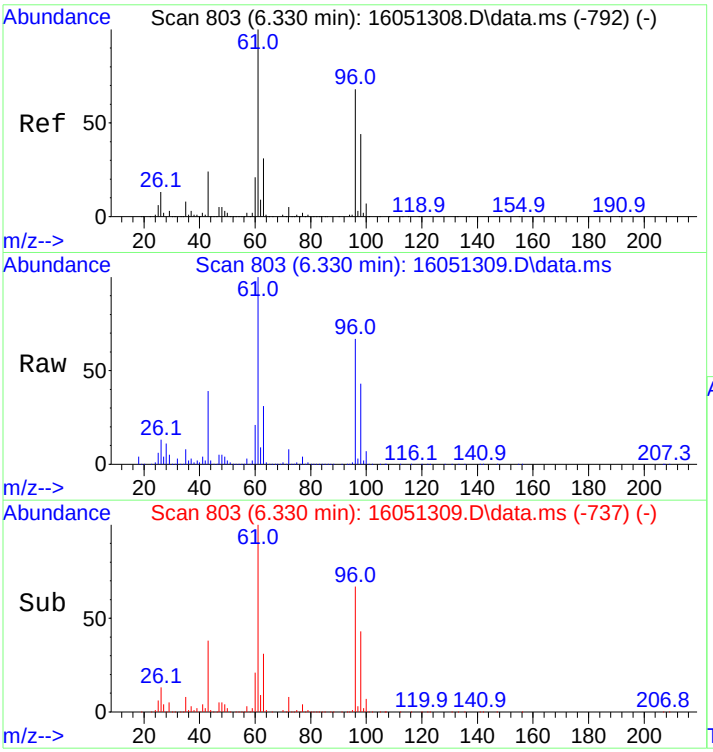


#16
cis,1,2-Dichloroethene
Concen: 429.13 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 61 Resp: 538609

Ion	Ratio	Lower	Upper
61	100		
96	67.8	54.6	81.8

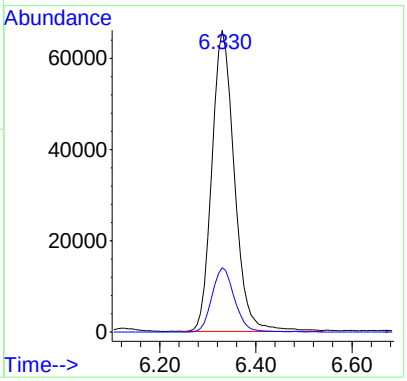


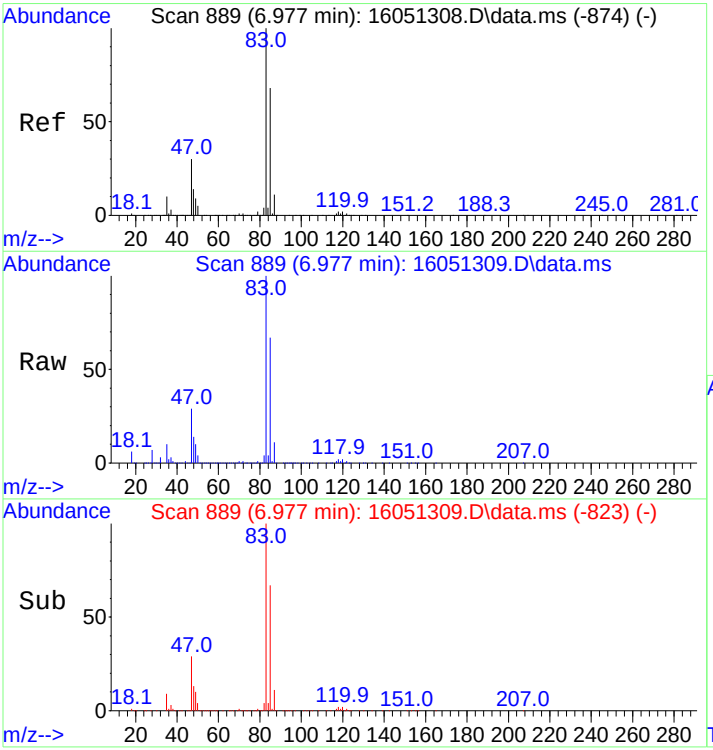


#17
2-Butanone
Concen: 495.94 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 215305

Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.2

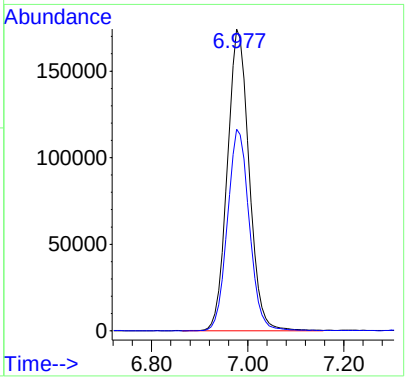


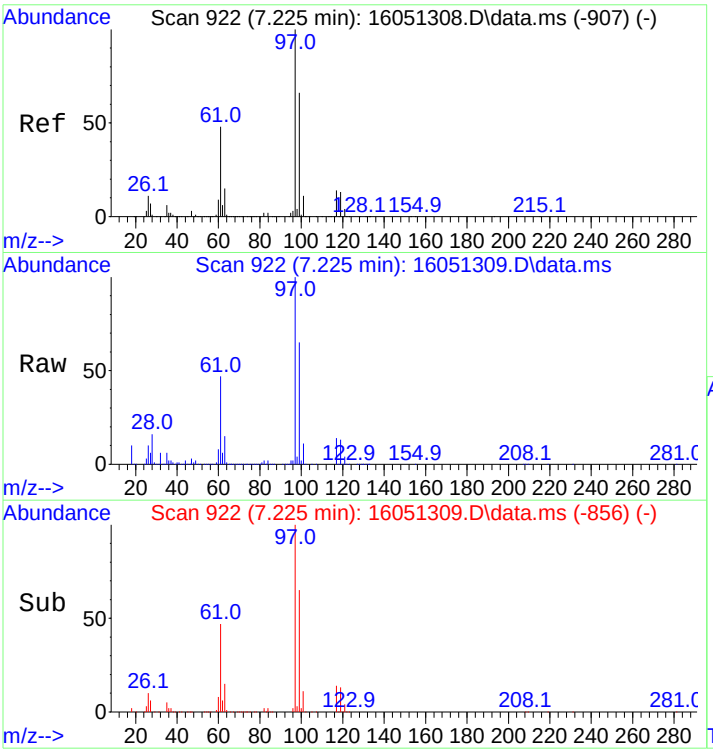


#18
Chloroform
Concen: 435.11 ng
RT: 6.977 min Scan# 889
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 548264

Ion	Ratio	Lower	Upper
83	100		
85	67.2	53.9	80.9

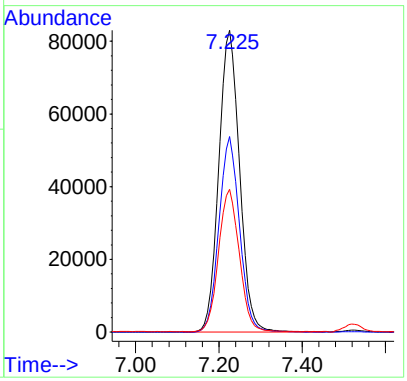


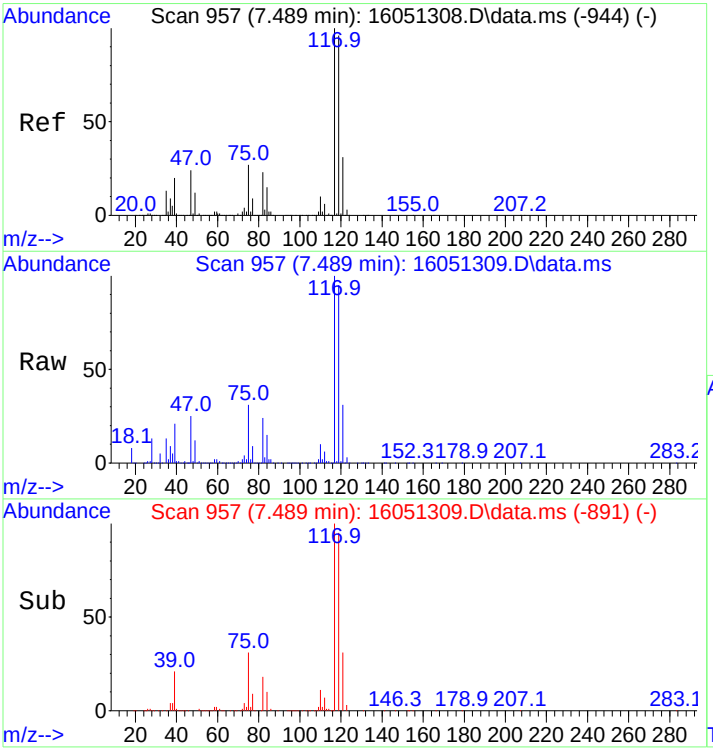


#19
1,1,1-Trichloroethane
Concen: 399.10 ng
RT: 7.225 min Scan# 922
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 97 Resp: 287558

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.3	76.9
61	47.1	37.6	56.4

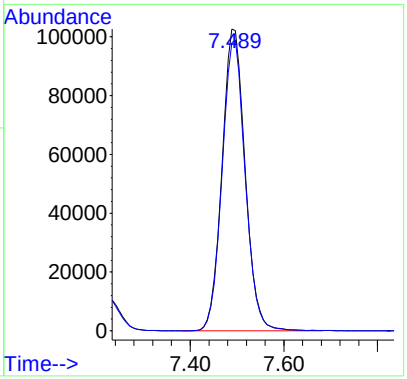


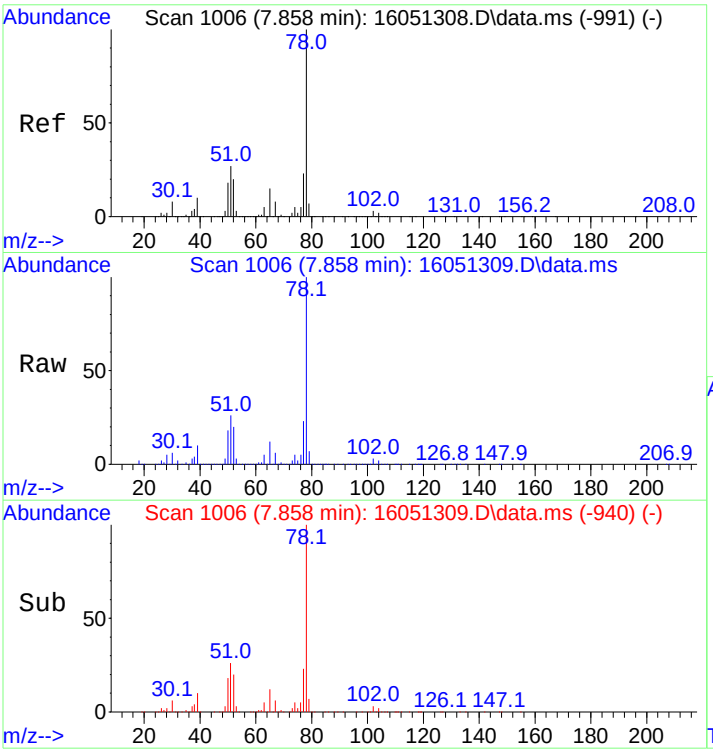


#22
Carbon Tetrachloride
Concen: 390.08 ng
RT: 7.489 min Scan# 957
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:117 Resp: 352434

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.0	115.4

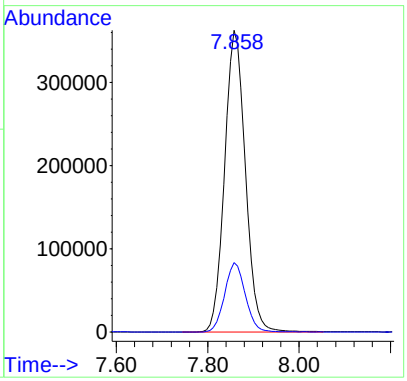


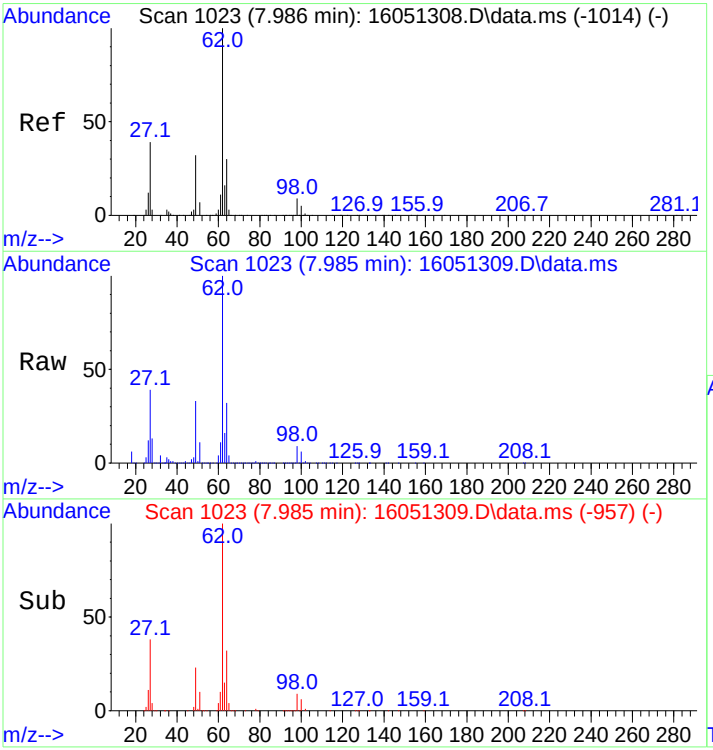


#23
Benzene
Concen: 334.16 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 78 Resp: 1144082

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

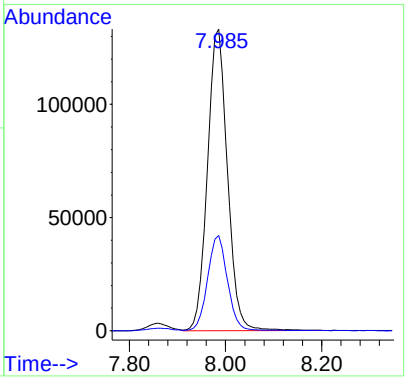


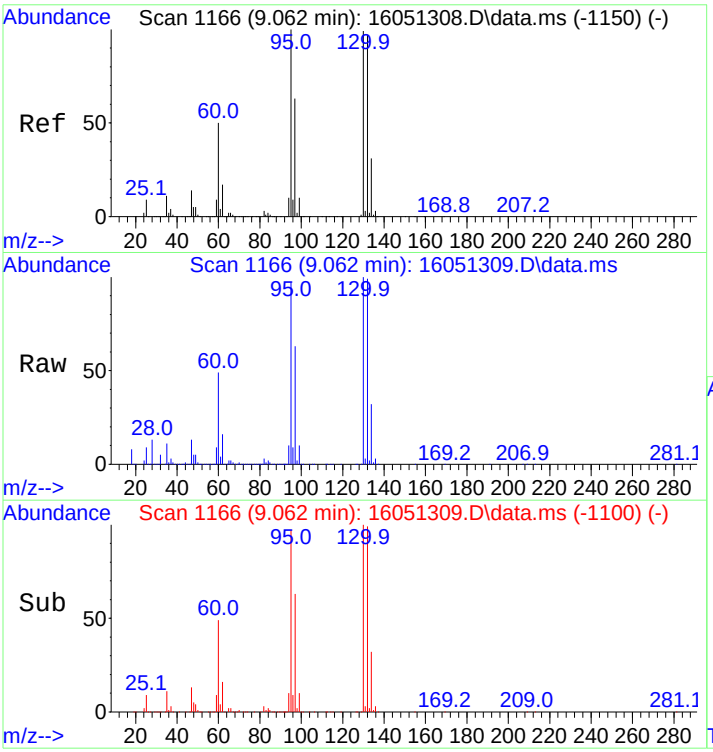


#24
1,2-Dichloroethane
Concen: 392.70 ng
RT: 7.985 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 62 Resp: 384880

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2

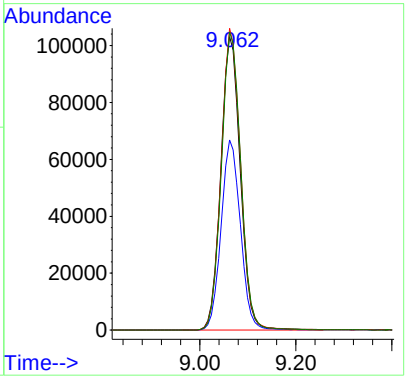


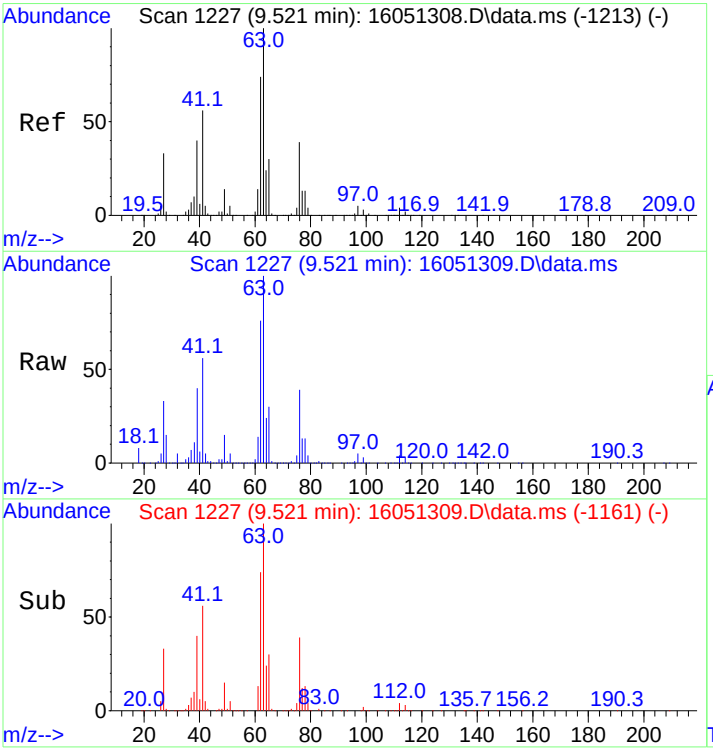


#25
Trichloroethene
Concen: 378.43 ng
RT: 9.062 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 95 Resp: 290472

Ion	Ratio	Lower	Upper
95	100		
97	64.3	51.8	77.8
130	102.2	81.9	122.9
132	101.5	81.2	121.8

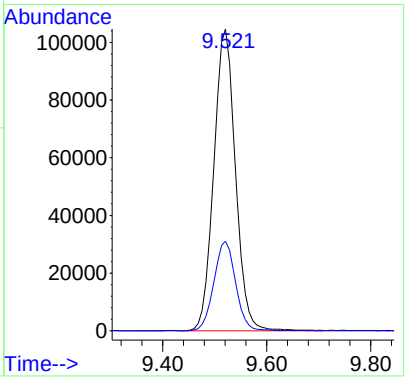


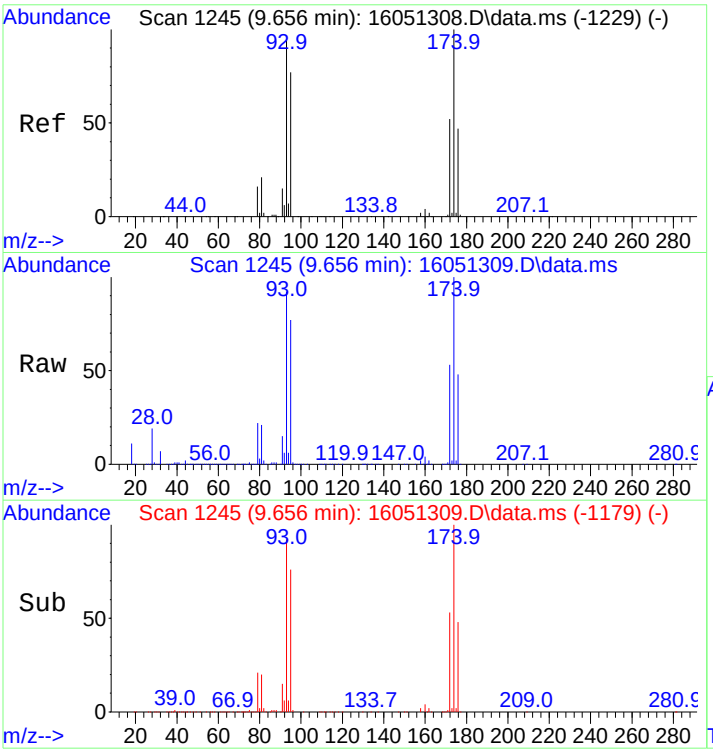


#26
1,2-Dichloropropane
Concen: 383.90 ng
RT: 9.521 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 63 Resp: 301276

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.2	36.2

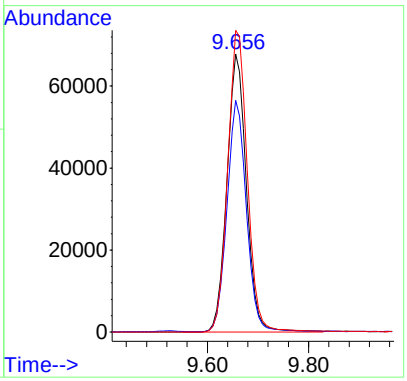


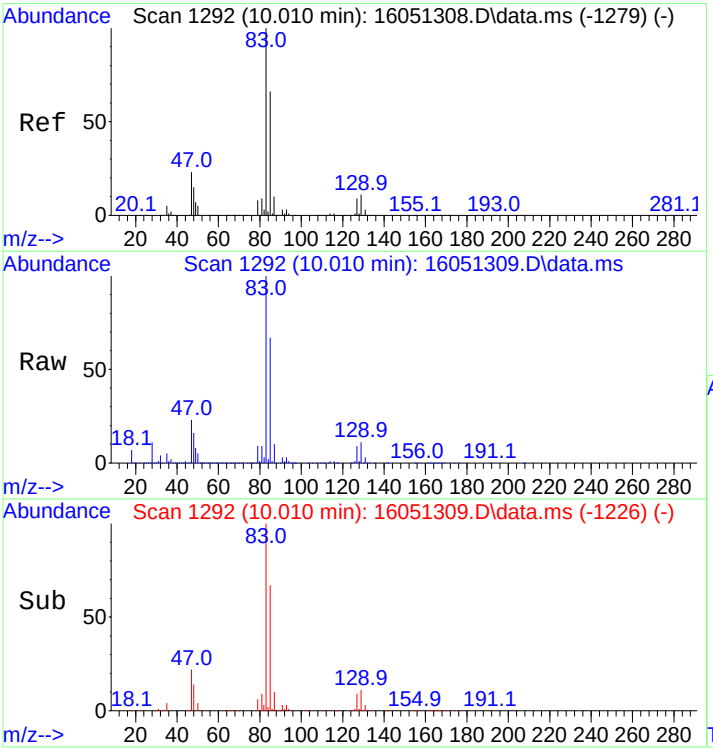


#27
Dibromomethane
Concen: 414.83 ng
RT: 9.656 min Scan# 1245
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 93 Resp: 182348

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	109.6	85.5	128.3

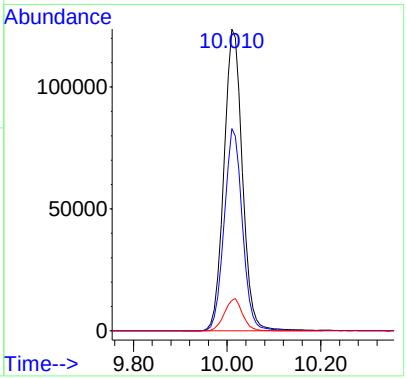


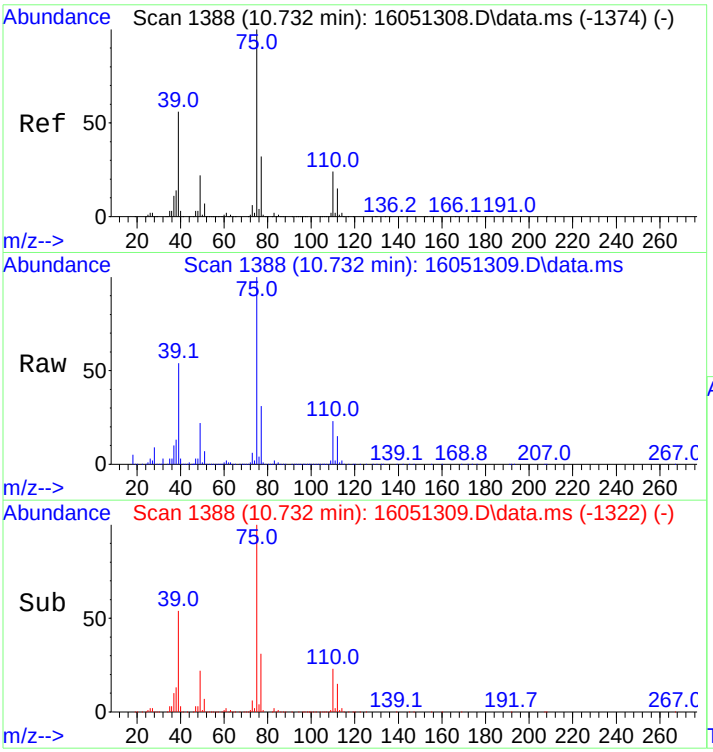


#28
Bromodichloromethane
Concen: 396.13 ng
RT: 10.010 min Scan# 1292
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 338502

Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.5	78.7
87	10.5	8.3	12.5

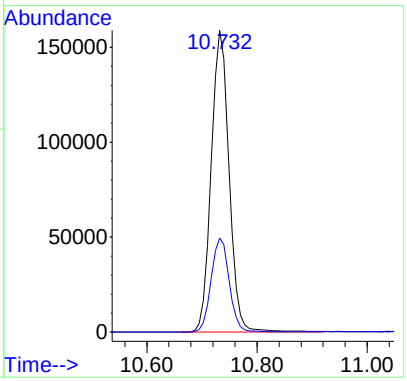


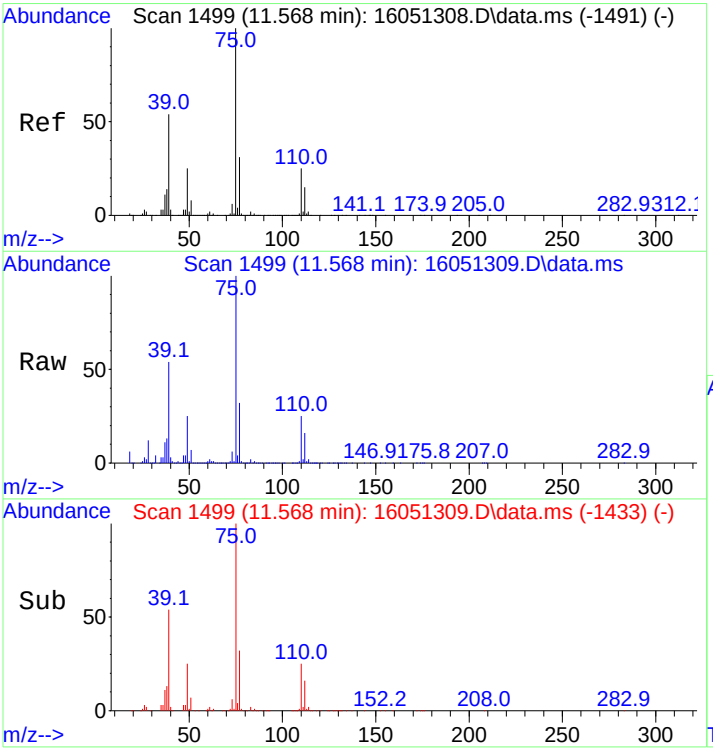


#29
cis,1,3-Dichloropropene
Concen: 411.02 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 359815

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4

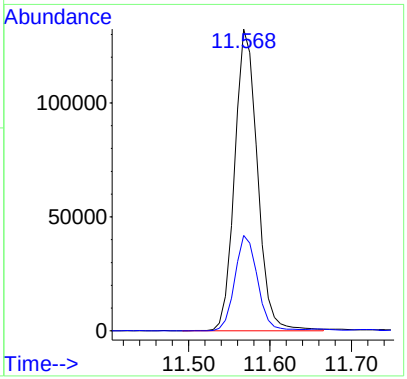


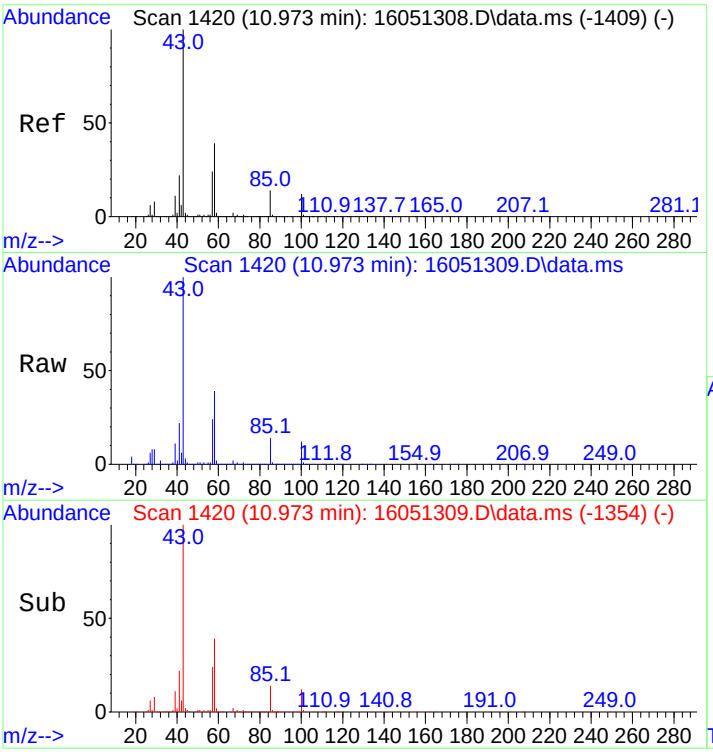


#30
trans,1,3-Dichloropropene
Concen: 430.91 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 256574

Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.0	39.0

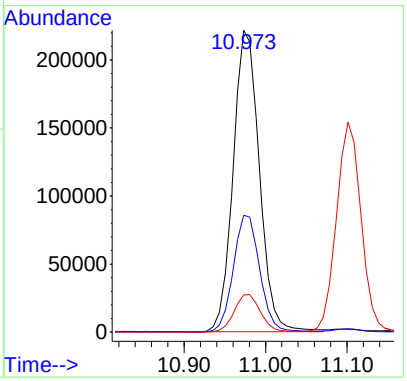


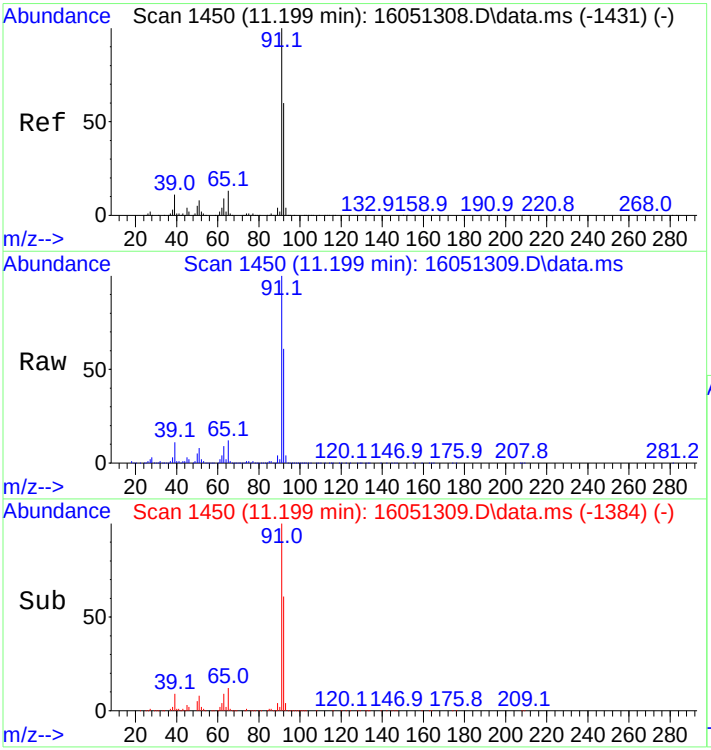


#31
4-Methyl-2-Pentanone
Concen: 429.20 ng
RT: 10.973 min Scan# 1420
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 496008

Ion	Ratio	Lower	Upper
43	100		
58	39.1	31.3	46.9
100	12.7	10.2	15.2

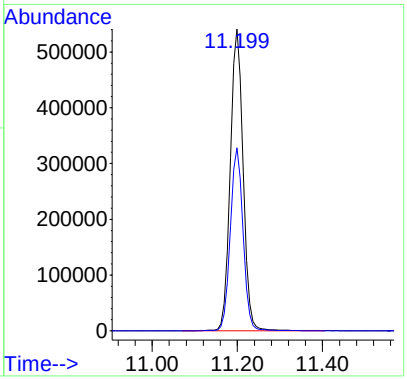


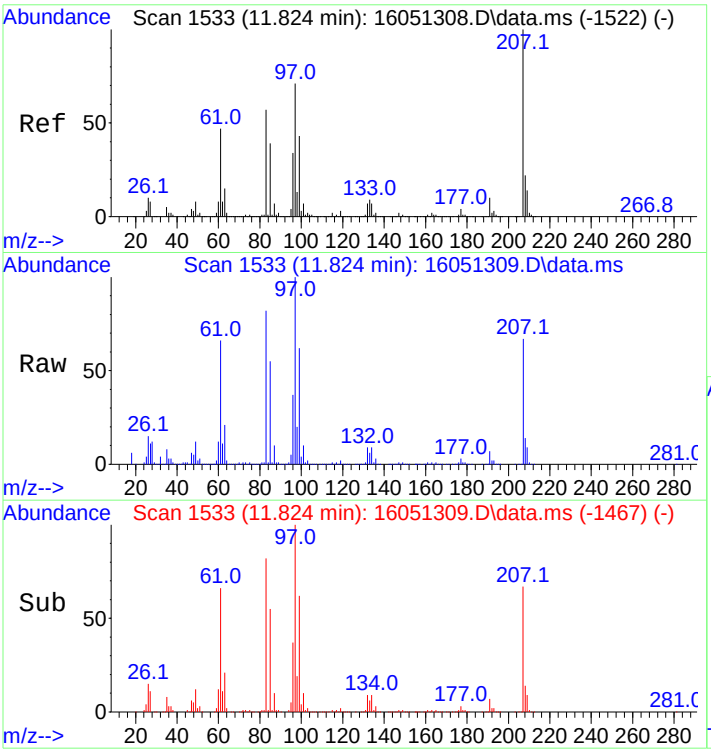


#33
Toluene
Concen: 364.80 ng
RT: 11.199 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1135037

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.6	73.0

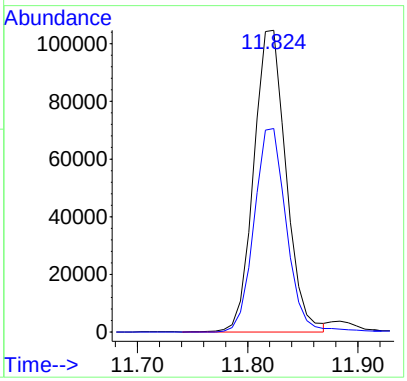


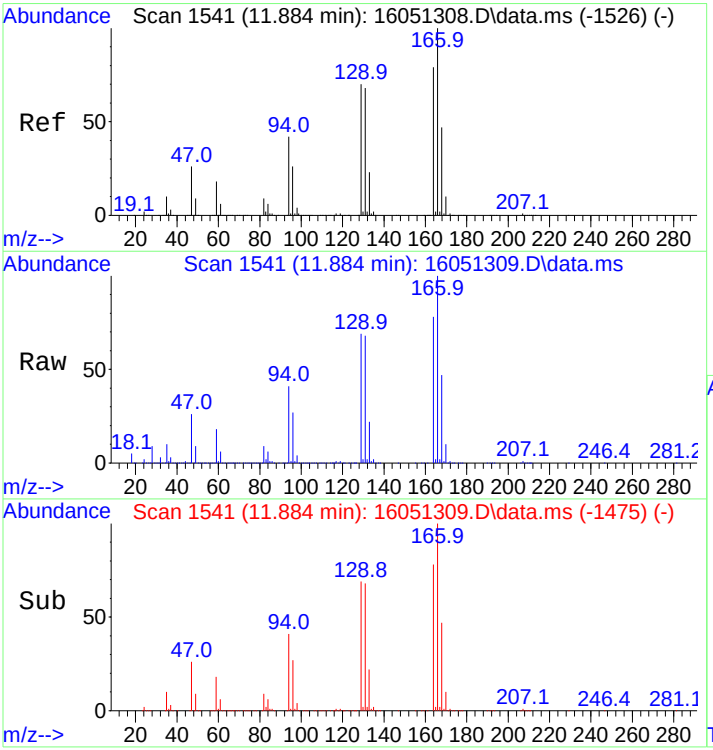


#34
1,1,2-Trichloroethane
Concen: 395.15 ng
RT: 11.824 min Scan# 1533
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 212481

Ion	Ratio	Lower	Upper
83	100		
85	67.9	54.7	82.1

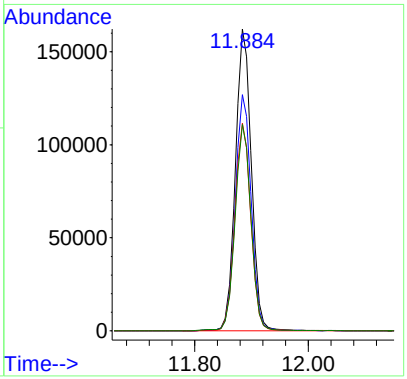


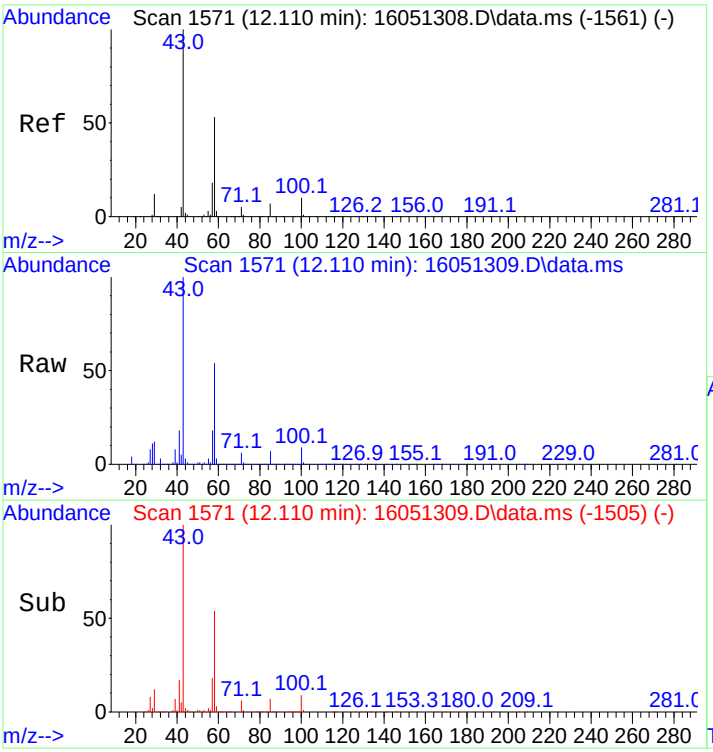


#35
Tetrachloroethene
Concen: 388.32 ng
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:166 Resp: 316430

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.2	94.8
129	69.3	55.5	83.3
131	68.4	55.2	82.8

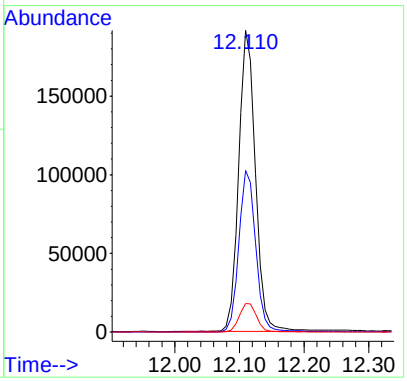


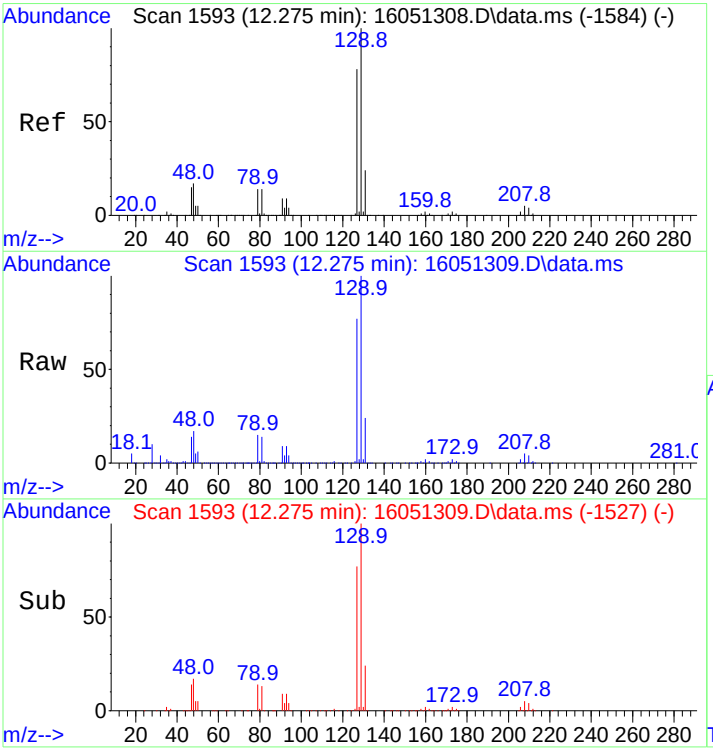


#36
2-Hexanone
Concen: 433.48 ng
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 43 Resp: 346006

Ion	Ratio	Lower	Upper
43	100		
58	54.6	43.6	65.4
100	9.9	7.8	11.8

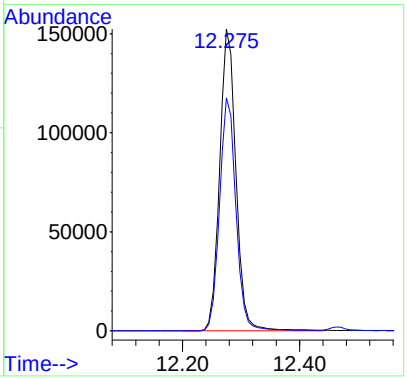


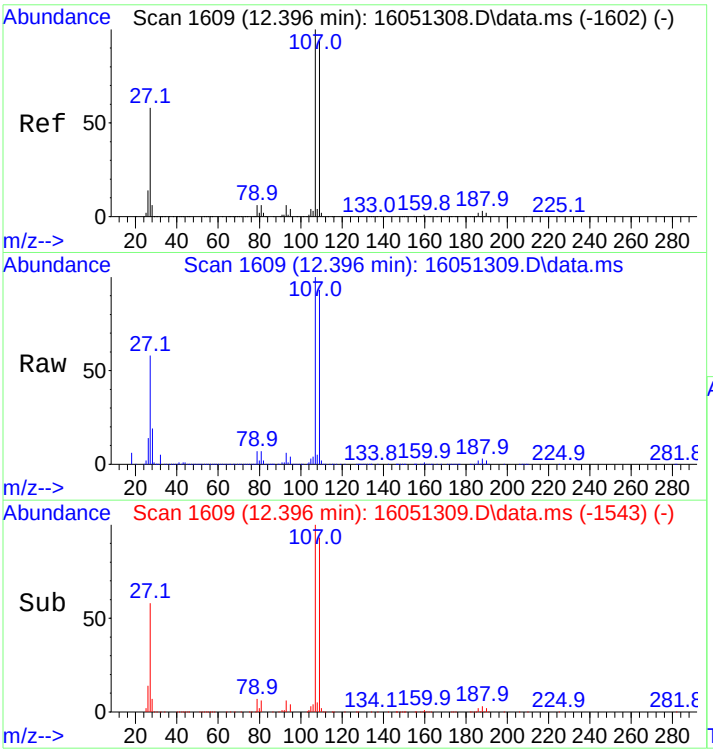


#37
Chlorodibromomethane
Concen: 403.48 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:129 Resp: 294266

Ion	Ratio	Lower	Upper
129	100		
127	77.8	62.3	93.5

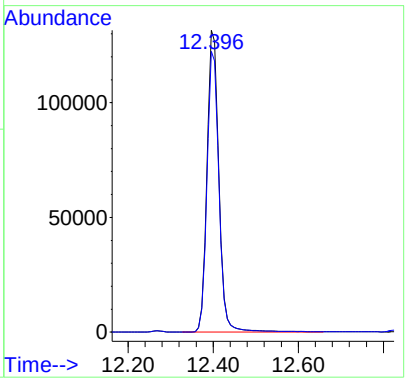


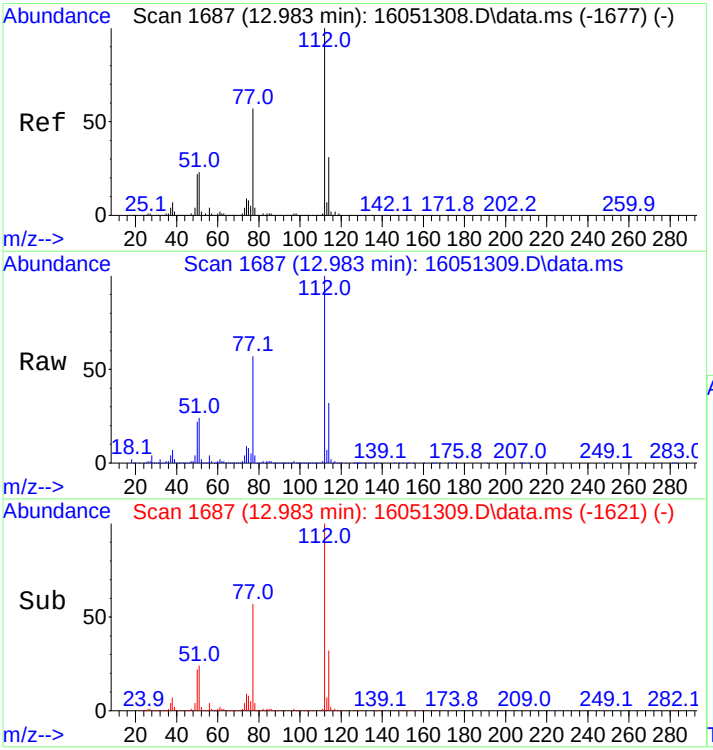


#38
Ethylene Dibromide
Concen: 383.21 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:107 Resp: 255117

Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.3	111.5

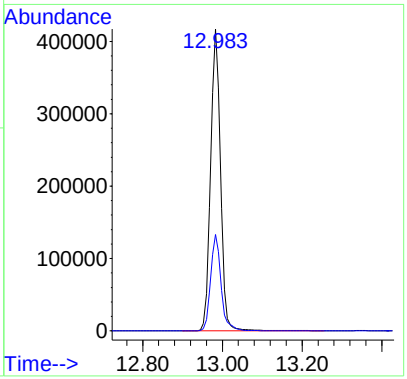


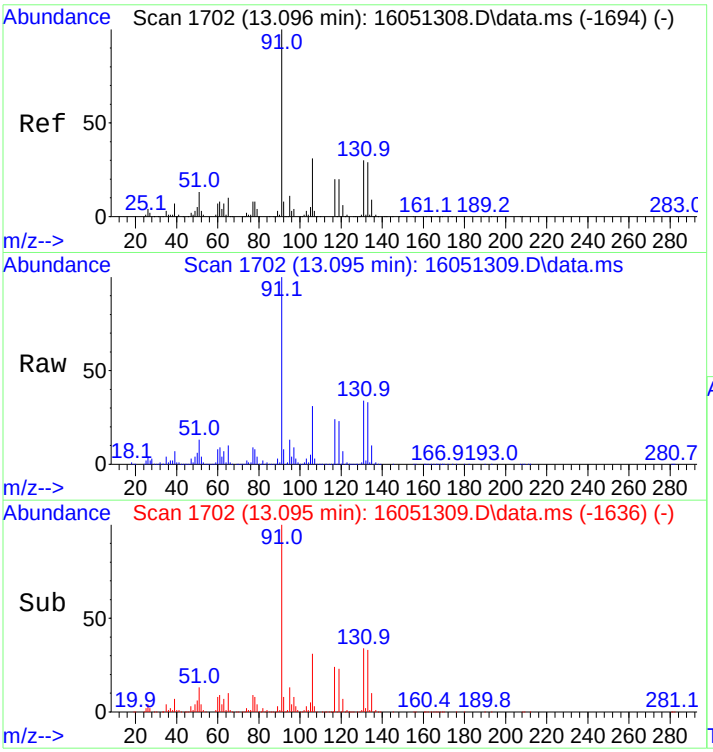


#39
Chlorobenzene
Concen: 376.97 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:112 Resp: 720710

Ion	Ratio	Lower	Upper
112	100		
114	33.5	27.5	41.3

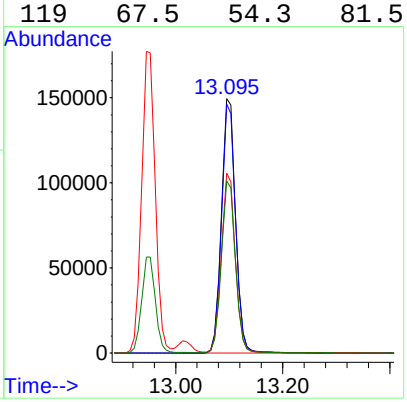


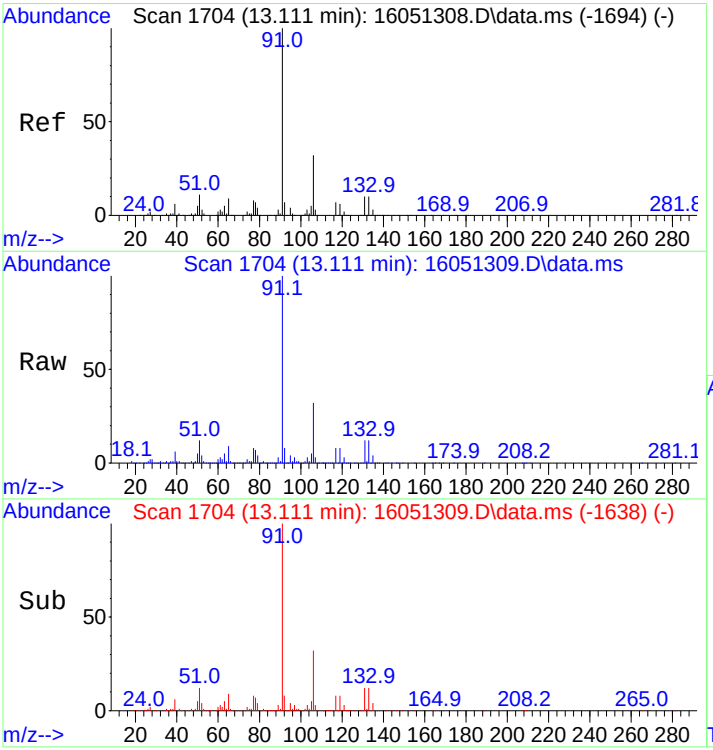


#40
1,1,1,2-Tetrachloroethane
Concen: 403.64 ng
RT: 13.095 min Scan# 1702
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:131 Resp: 273890

Ion	Ratio	Lower	Upper
131	100		
133	96.9	77.8	116.6
117	70.3	57.1	85.7
119	67.5	54.3	81.5

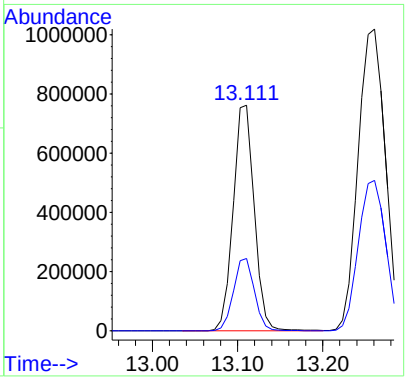


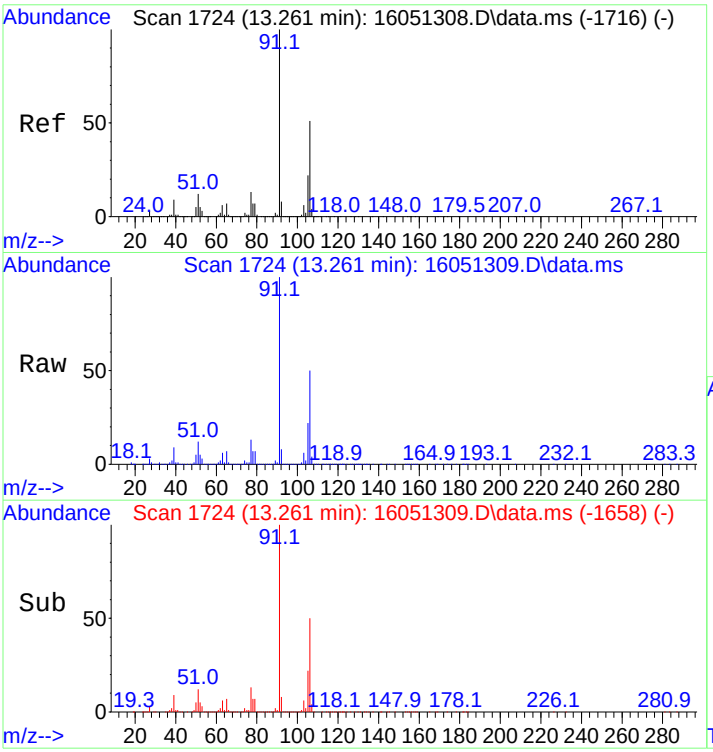


#41
Ethylbenzene
Concen: 371.90 ng
RT: 13.111 min Scan# 1704
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1314545

Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.5	38.3

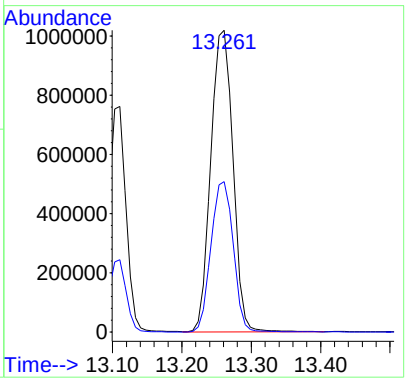


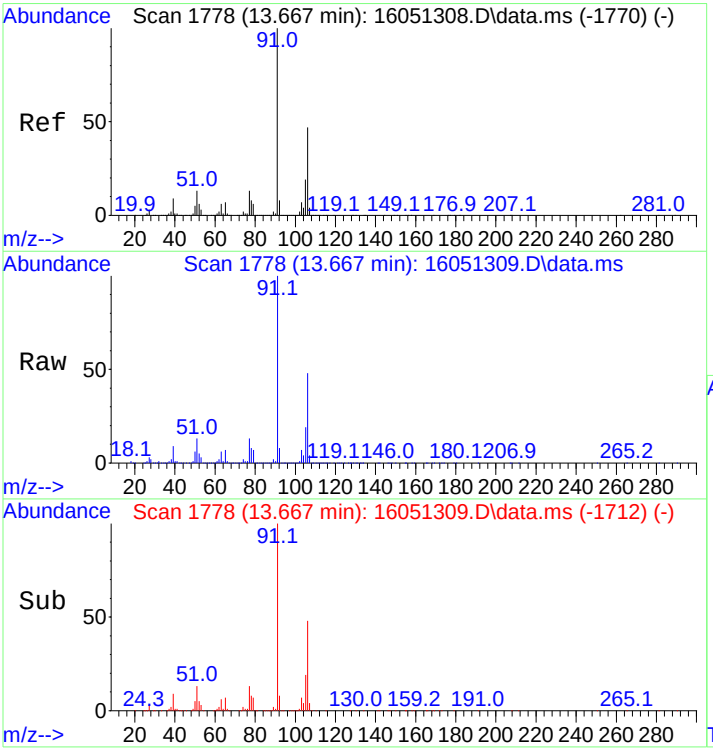


#42
M&P-Xylene
Concen: 753.85 ng
RT: 13.261 min Scan# 1724
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 2265781

Ion	Ratio	Lower	Upper
91	100		
106	50.0	40.4	60.6

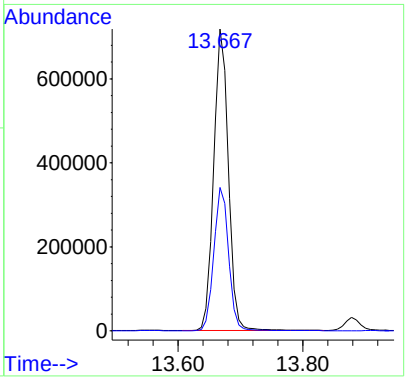


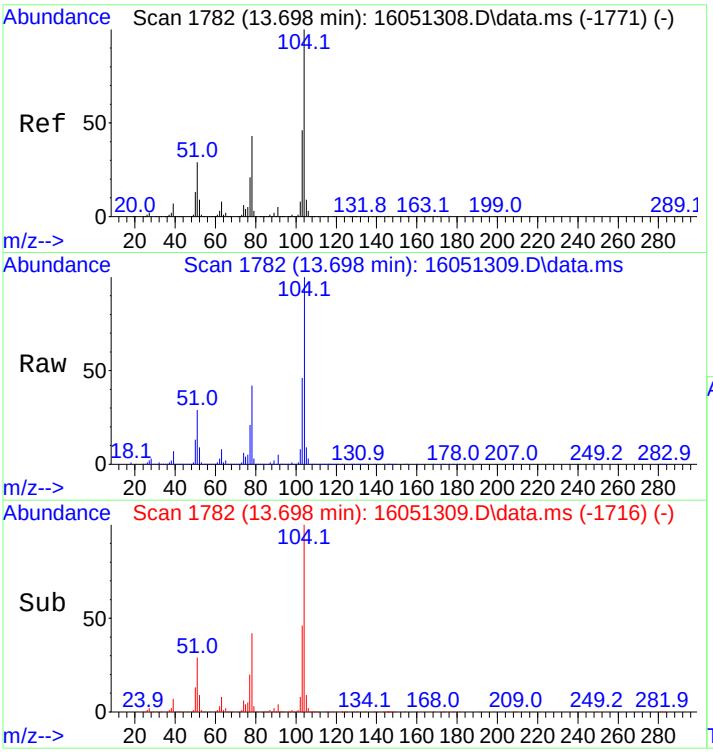


#43
O-Xylene
Concen: 375.92 ng
RT: 13.667 min Scan# 1778
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1171329

Ion	Ratio	Lower	Upper
91	100		
106	48.0	38.2	57.2

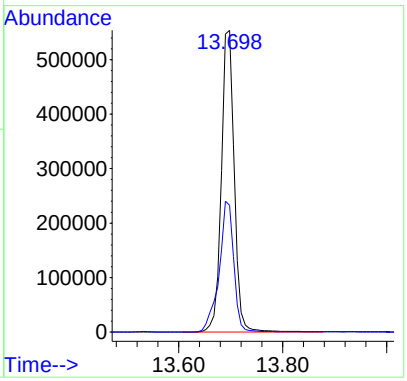


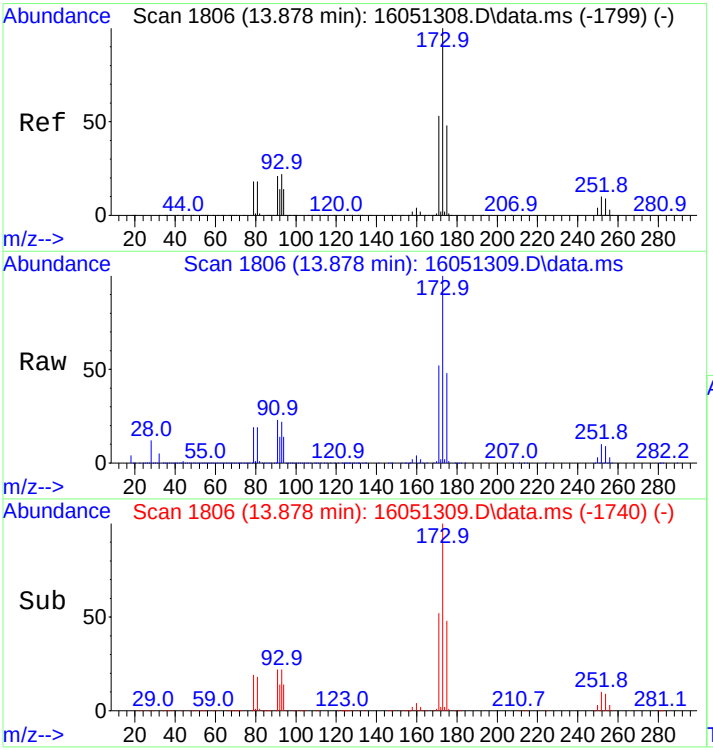


#44
Styrene
Concen: 358.31 ng
RT: 13.698 min Scan# 1782
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:104 Resp: 953014

Ion	Ratio	Lower	Upper
104	100		
78	49.3	39.8	59.6

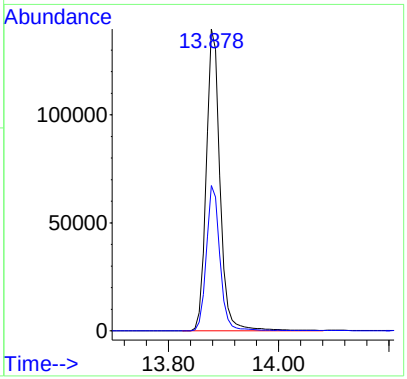


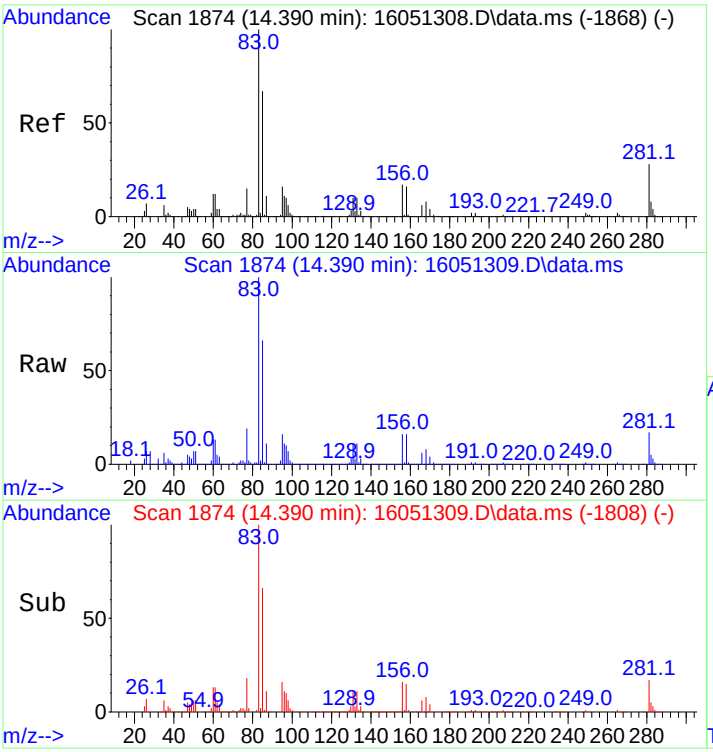


#45
Bromoform
Concen: 426.53 ng
RT: 13.878 min Scan# 1806
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:173 Resp: 245168

Ion	Ratio	Lower	Upper
173	100		
175	47.8	38.5	57.7

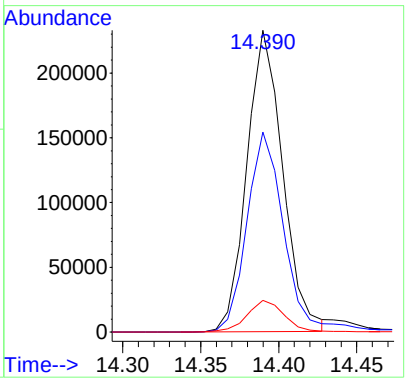


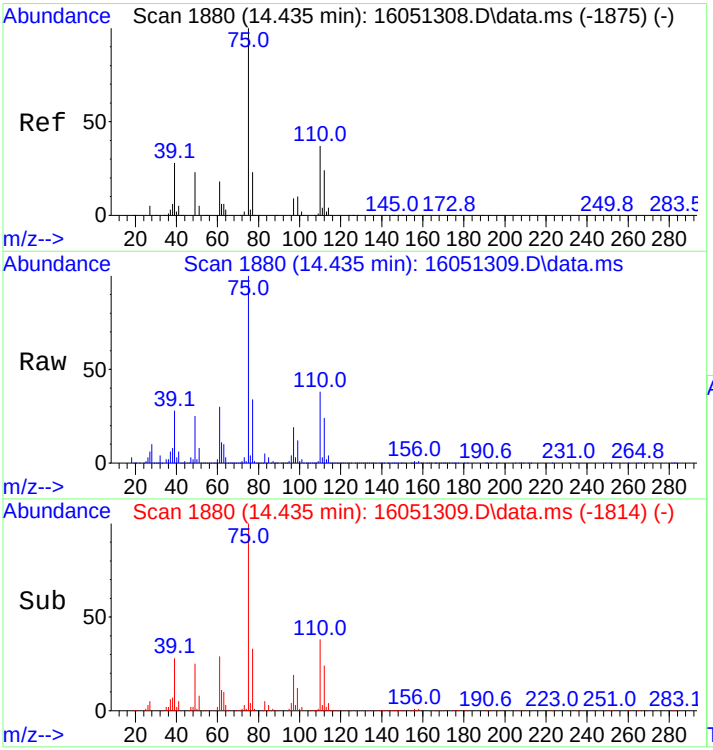


#46
1,1,2,2-Tetrachloroethane
Concen: 403.98 ng m
RT: 14.390 min Scan# 1874
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 83 Resp: 372688

Ion	Ratio	Lower	Upper
83	100		
85	66.7	53.1	79.7
131	11.3	8.9	13.3

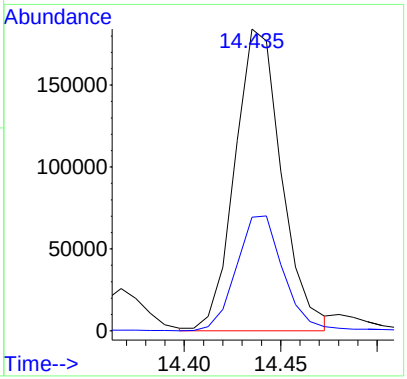


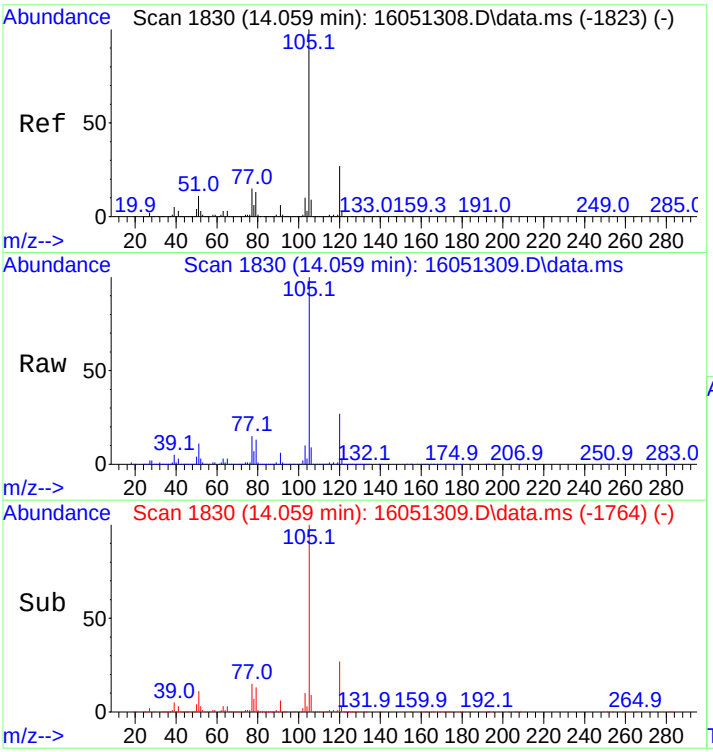


#47
1,2,3-Trichloropropane
Concen: 407.15 ng m
RT: 14.435 min Scan# 1880
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 309770

Ion	Ratio	Lower	Upper
75	100		
110	38.8	30.5	45.7

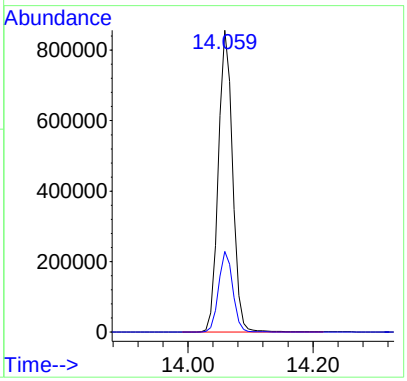


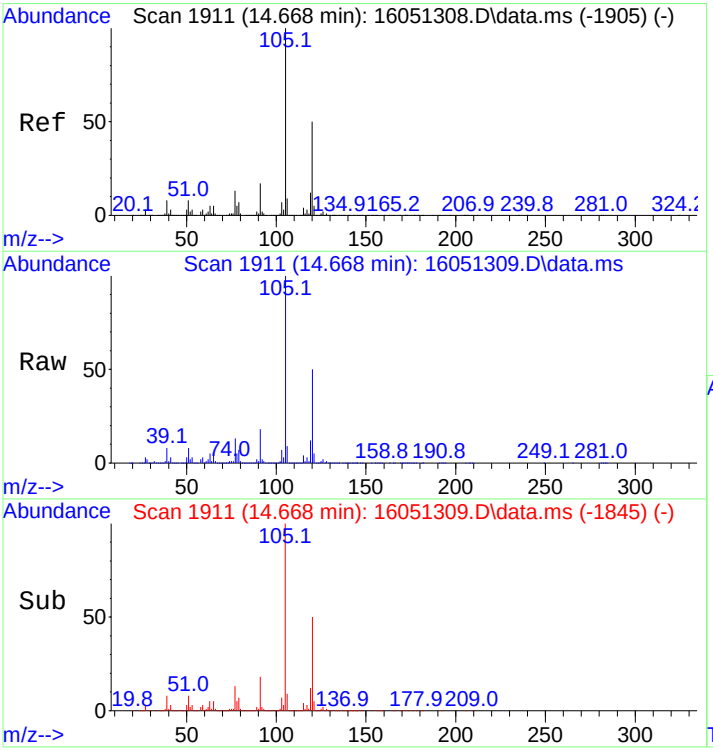


#51
Isopropylbenzene
Concen: 374.59 ng
RT: 14.059 min Scan# 1830
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1356514

Ion	Ratio	Lower	Upper
105	100		
120	26.7	21.4	32.2

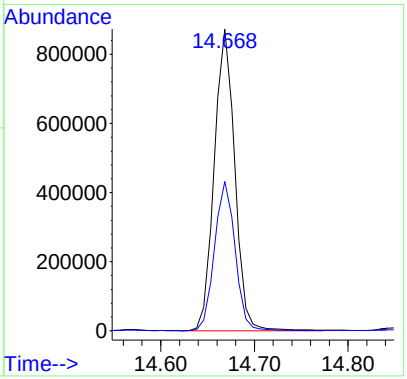


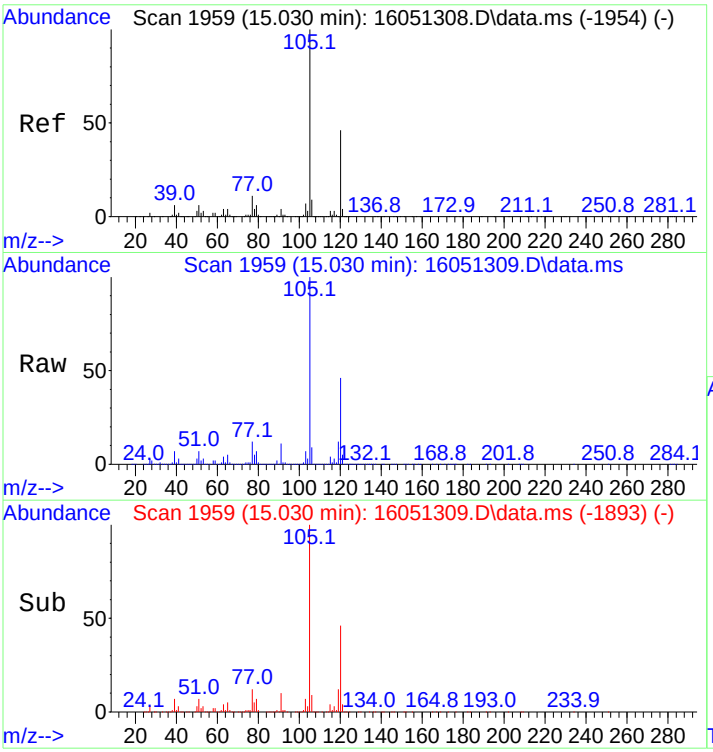


#52
1,3,5-Trimethylbenzene
Concen: 376.97 ng
RT: 14.668 min Scan# 1911
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1330437

Ion	Ratio	Lower	Upper
105	100		
120	49.6	39.9	59.9

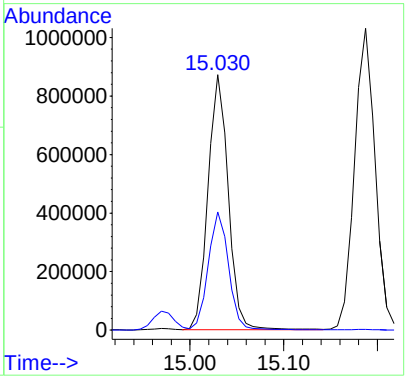


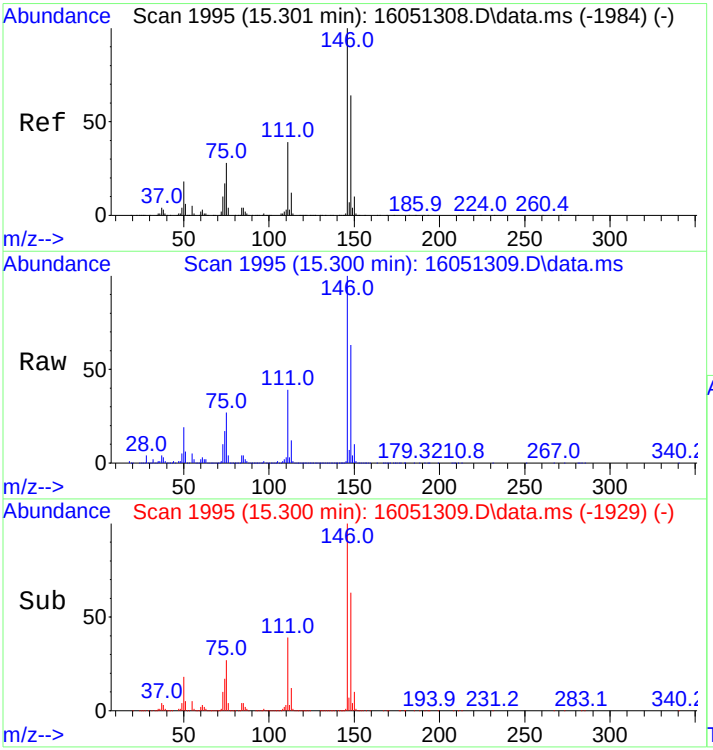


#53
1,2,4-Trimethylbenzene
Concen: 377.45 ng
RT: 15.030 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1315325

Ion	Ratio	Lower	Upper
105	100		
120	46.5	37.5	56.3

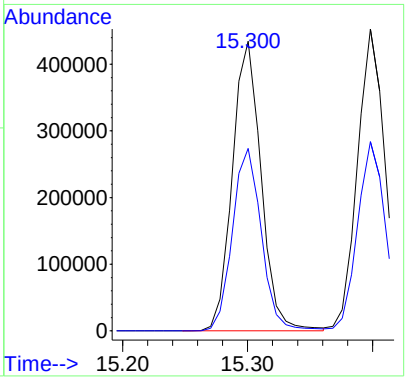


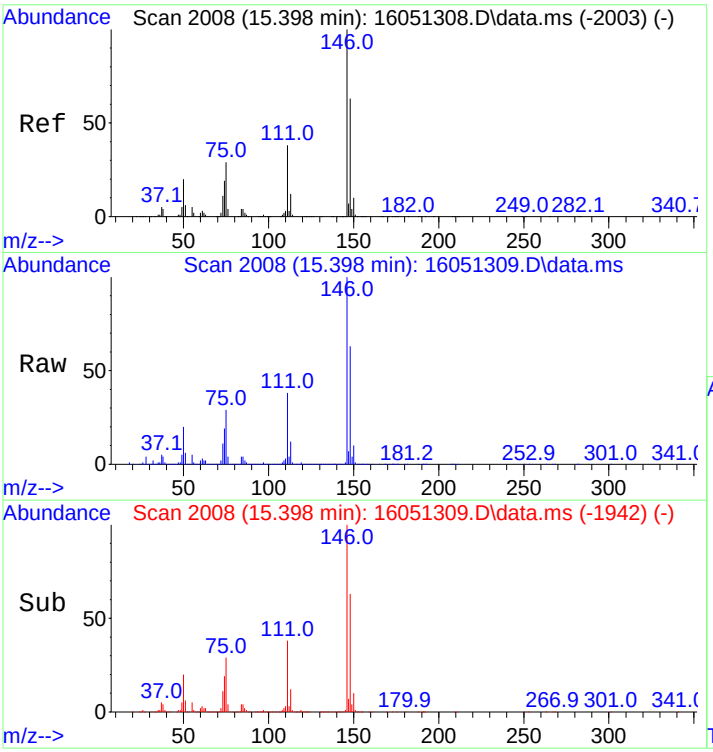


#54
1,3-Dichlorobenzene
Concen: 383.73 ng
RT: 15.300 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:146 Resp: 697860

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	76.0

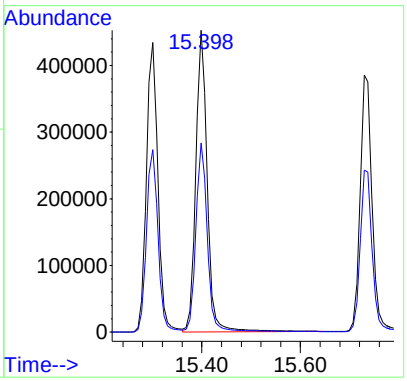


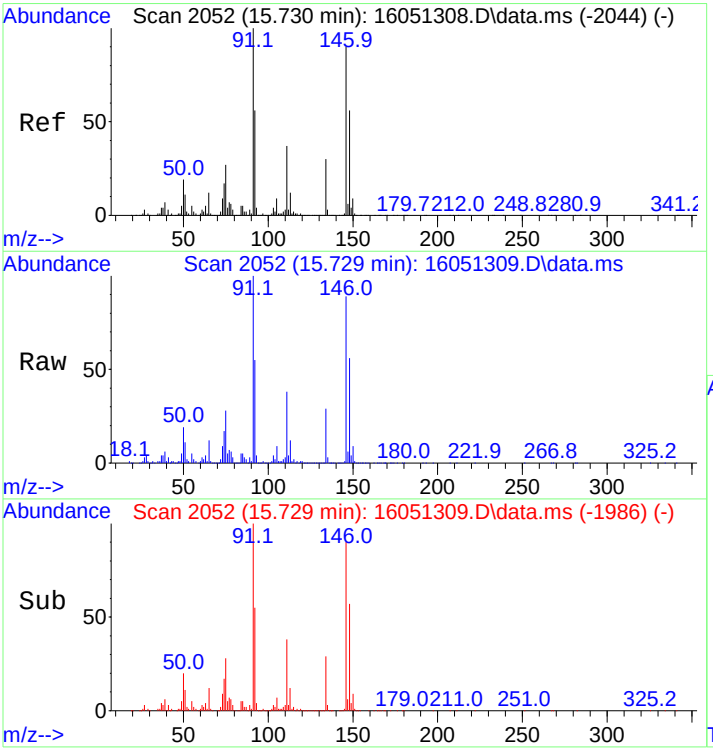


#55
1,4-Dichlorobenzene
Concen: 380.81 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:146 Resp: 732033

Ion	Ratio	Lower	Upper
146	100		
148	63.1	49.9	74.9

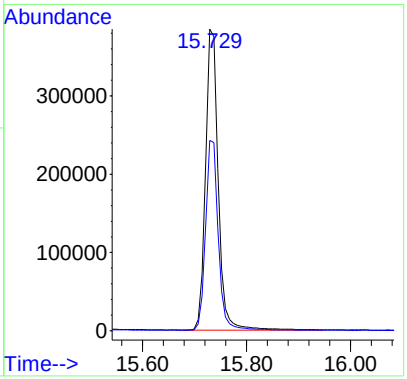


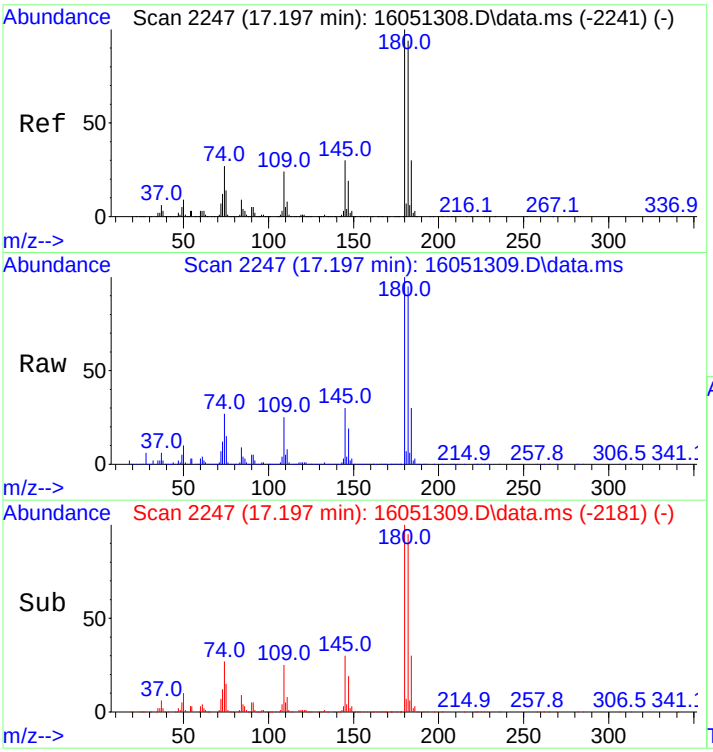


#56
1,2-Dichlorobenzene
Concen: 378.48 ng
RT: 15.729 min Scan# 2052
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:146 Resp: 651027

Ion	Ratio	Lower	Upper
146	100		
148	63.5	49.9	74.9

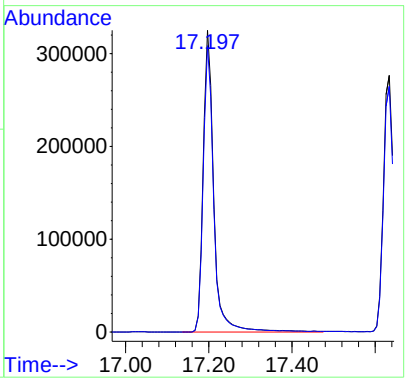


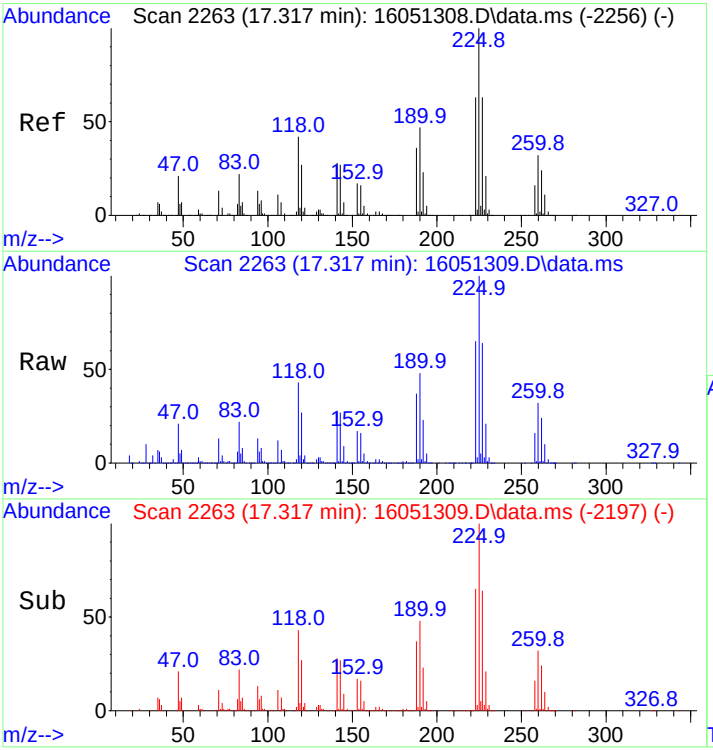


#57
1,2,4-Trichlorobenzene
Concen: 391.37 ng
RT: 17.197 min Scan# 2247
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:180 Resp: 570982

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.0	112.4

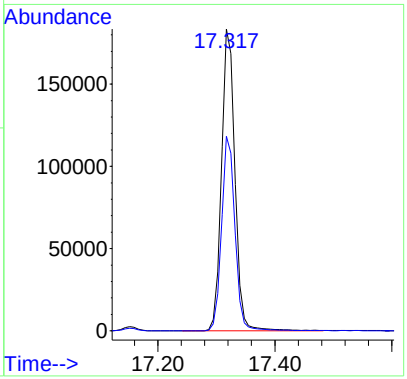


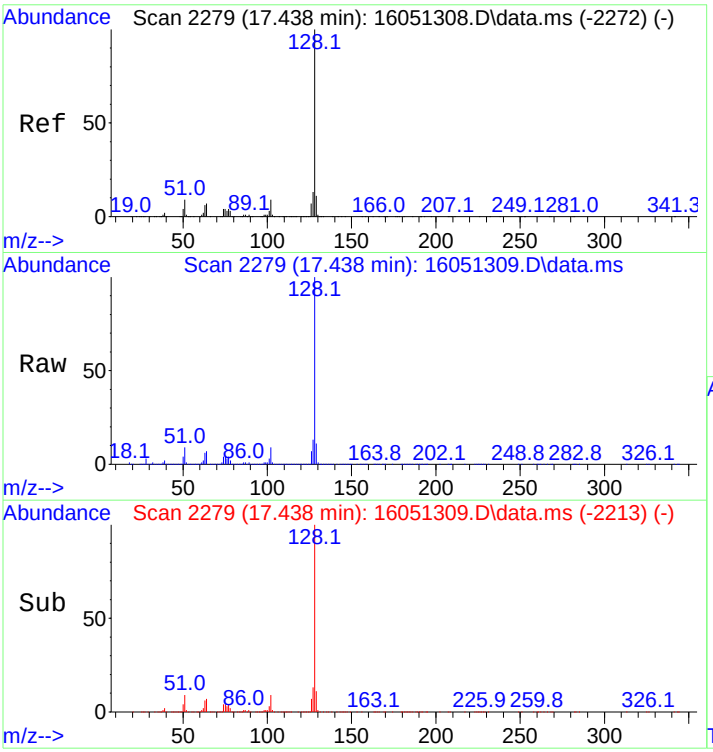


#58
Hexachlorobutadiene
Concen: 382.06 ng
RT: 17.317 min Scan# 2263
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:225 Resp: 292993

Ion	Ratio	Lower	Upper
225	100		
227	64.3	51.1	76.7

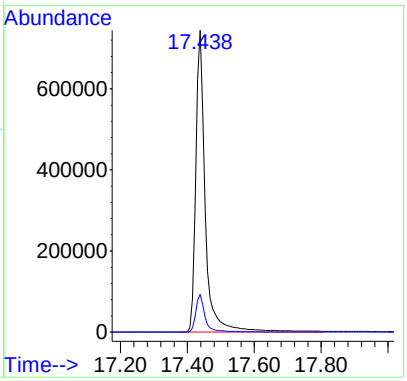


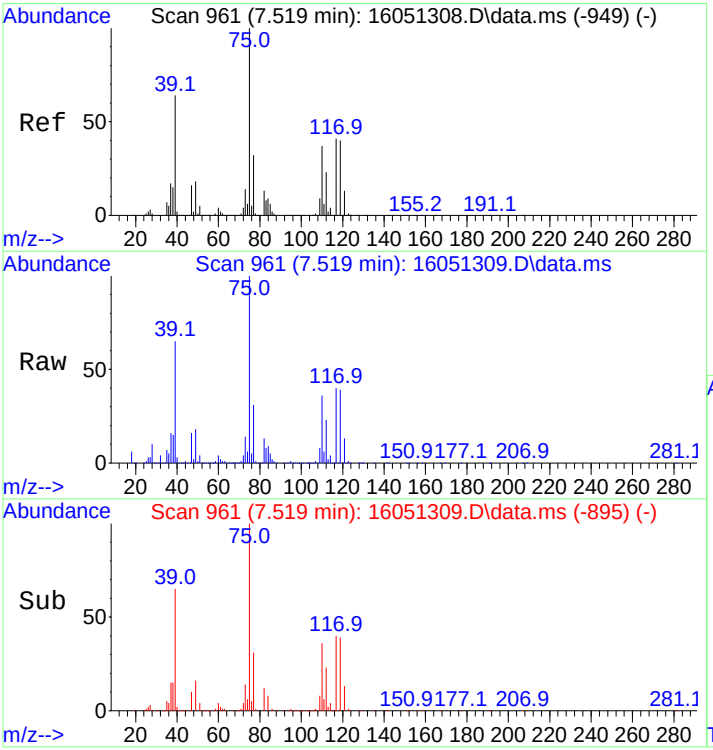


#59
Naphthalene
Concen: 408.09 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:128 Resp: 1461347

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

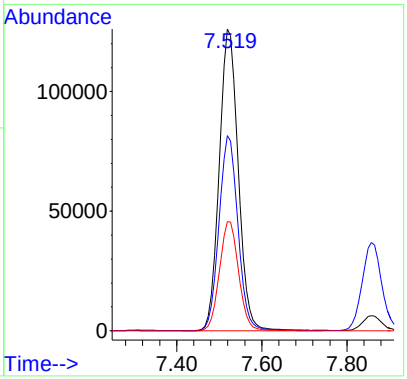


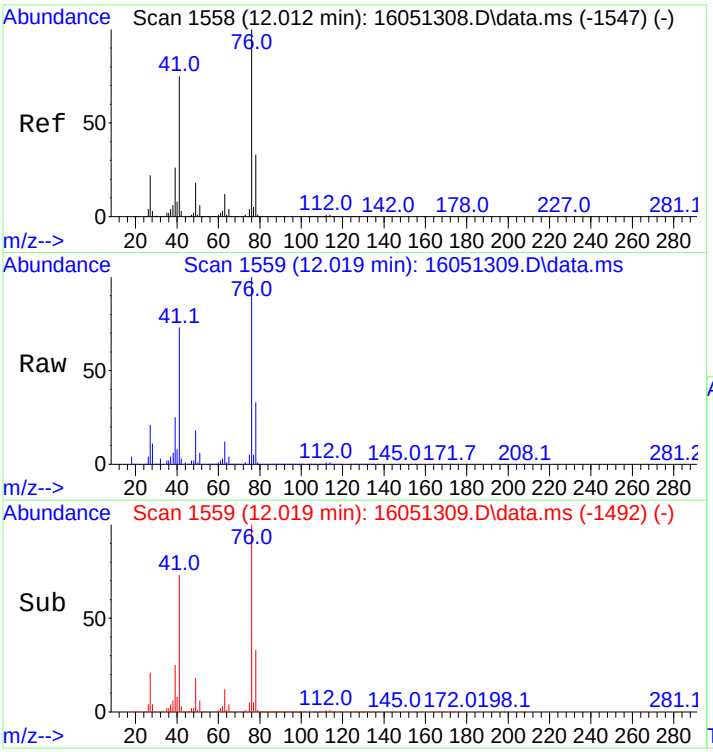


#60
1,1-Dichloropropene
Concen: 392.95 ng
RT: 7.519 min Scan# 961
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 75 Resp: 391756

Ion	Ratio	Lower	Upper
75	100		
39	64.2	51.8	77.6
110	36.5	29.3	43.9

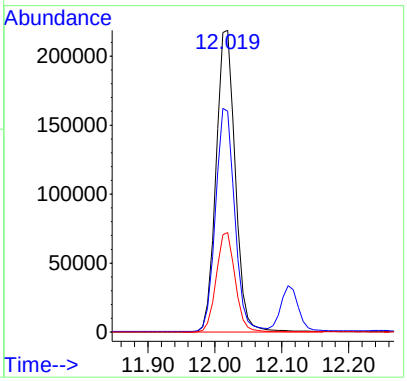


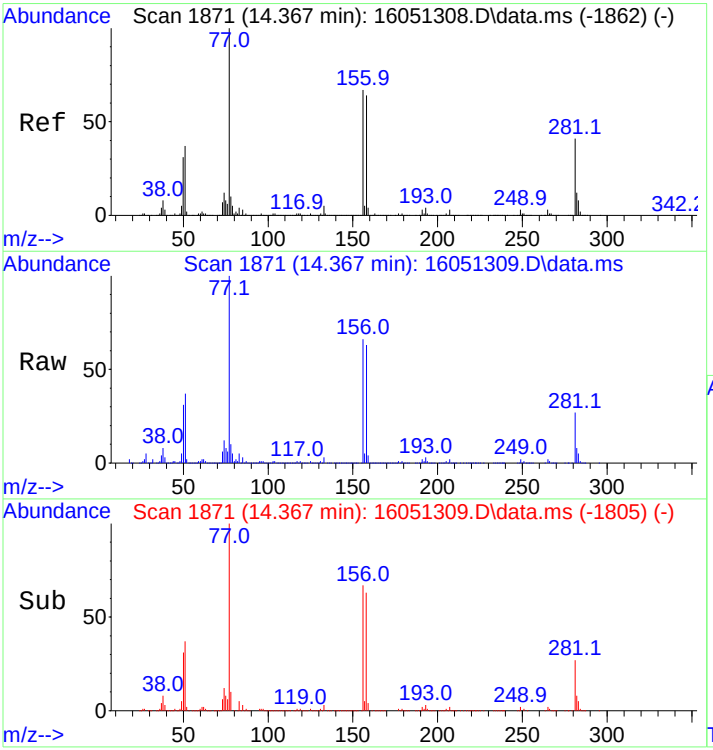


#61
1,3-Dichloropropane
Concen: 392.80 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.007 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 76 Resp: 436776

Ion	Ratio	Lower	Upper
76	100		
41	73.5	58.2	87.4
78	32.6	26.1	39.1

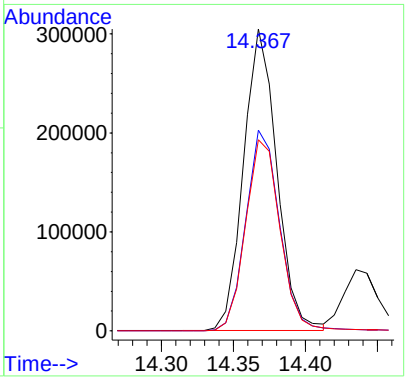


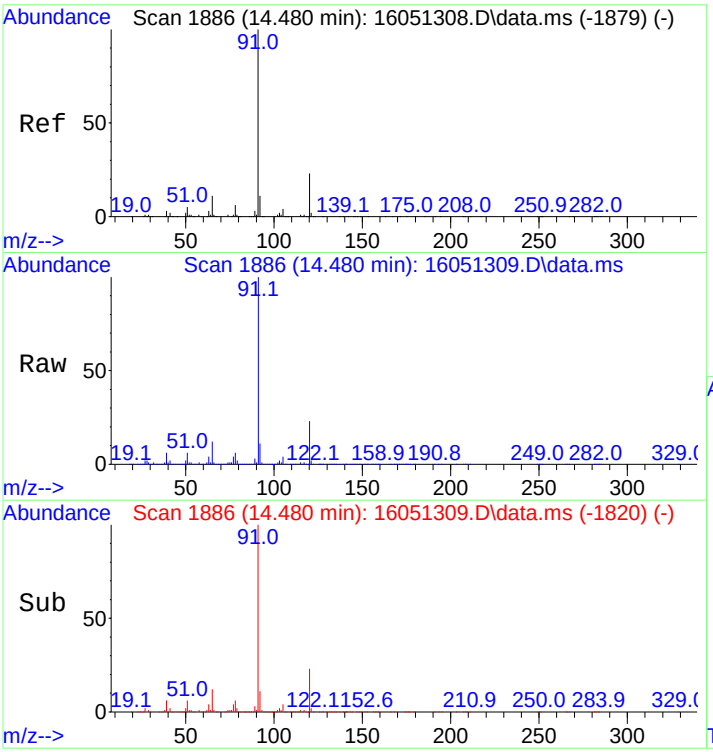


#62
Bromobenzene
Concen: 379.15 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 77 Resp: 488632

Ion	Ratio	Lower	Upper
77	100		
156	68.4	55.0	82.4
158	66.4	53.3	79.9

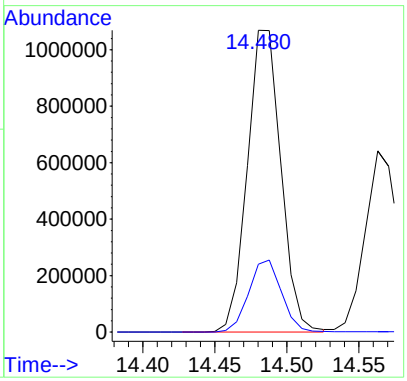


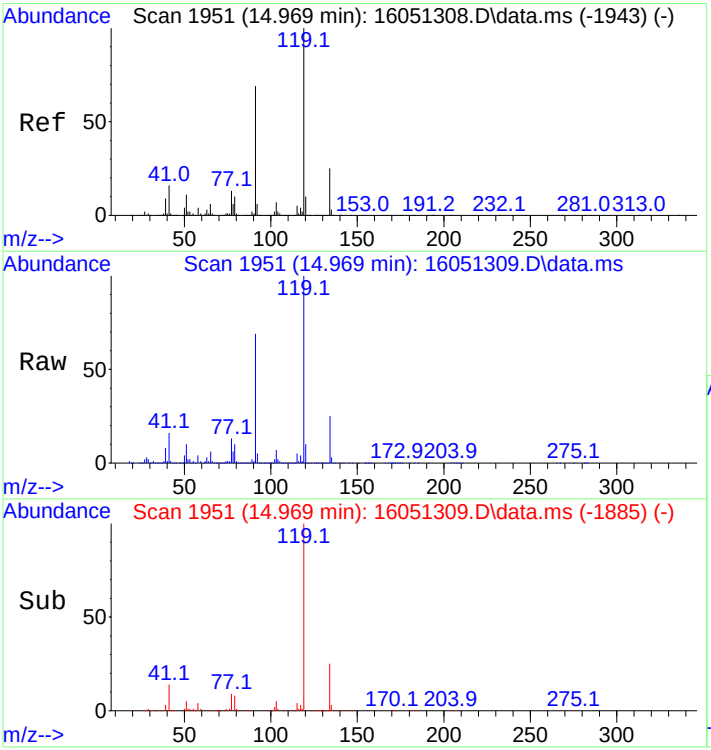


#63
n-Propylbenzene
Concen: 376.71 ng
RT: 14.480 min Scan# 1886
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1726405

Ion	Ratio	Lower	Upper
91	100		
120	23.4	18.6	28.0

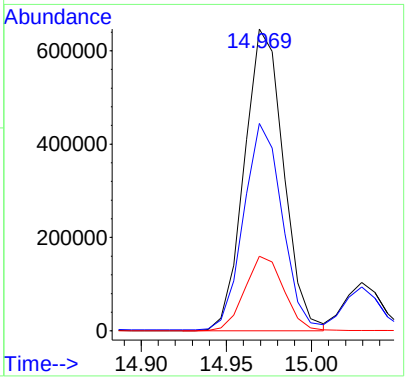


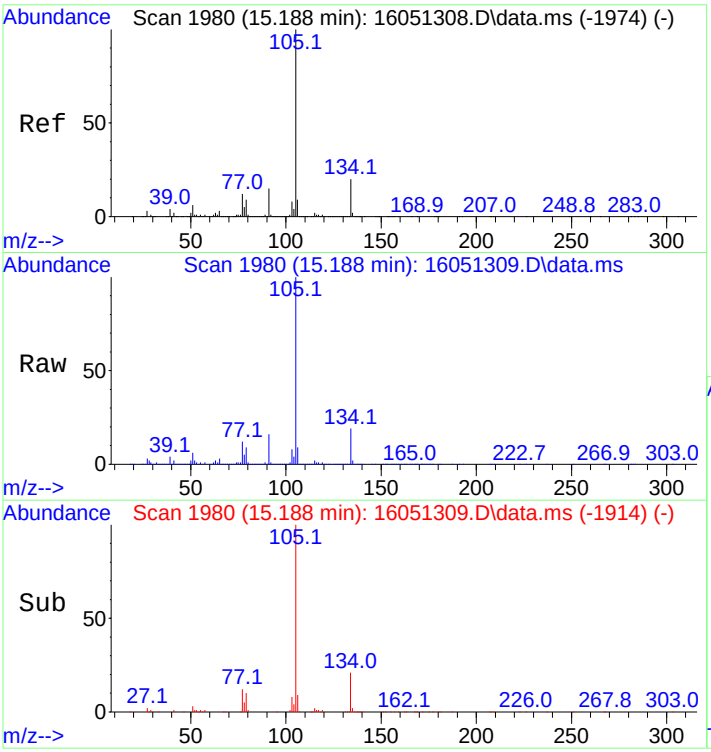


#64
tert-Butylbenzene
Concen: 377.65 ng
RT: 14.969 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:119 Resp: 1036046

Ion	Ratio	Lower	Upper
119	100		
91	67.4	54.0	81.0
134	24.9	19.9	29.9

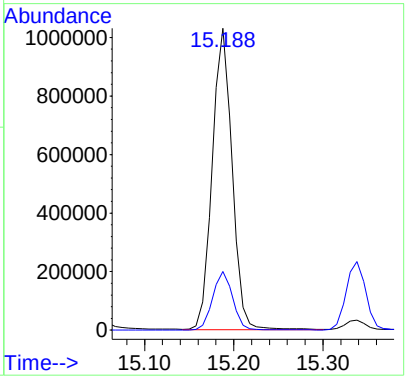


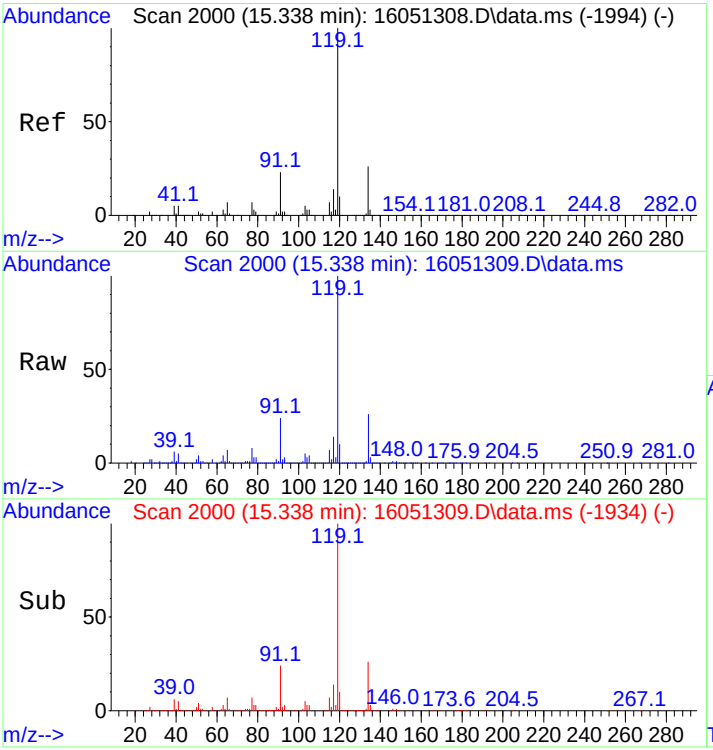


#65
sec-Butylbenzene
Concen: 377.17 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:105 Resp: 1594526

Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.7	23.5

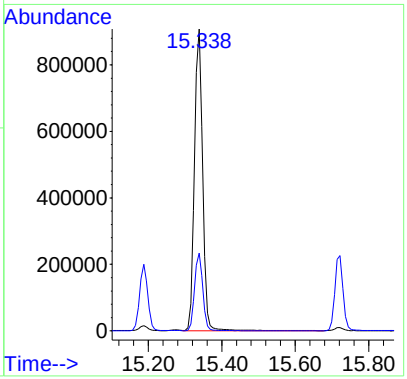


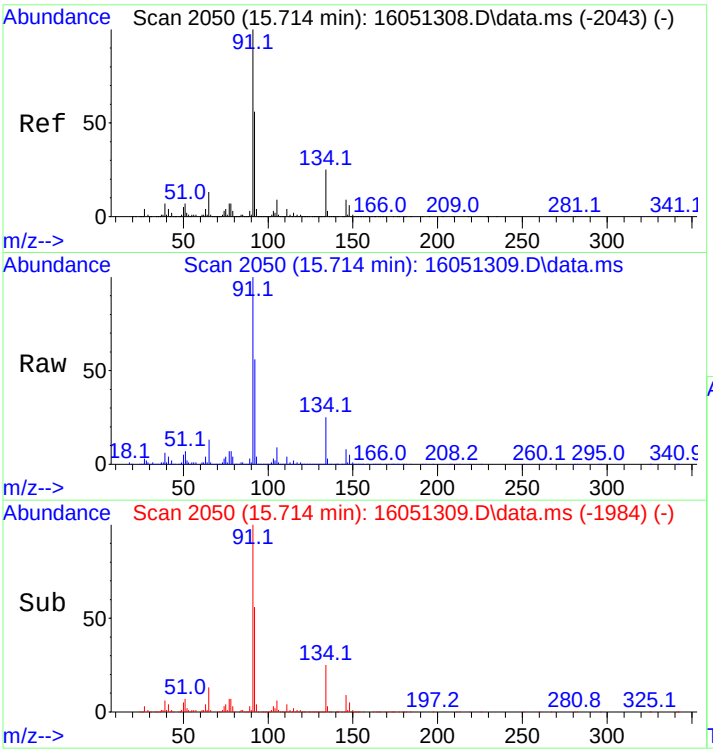


#66
p-Isopropyltoluene
Concen: 377.19 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:119 Resp: 1405815

Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	31.0

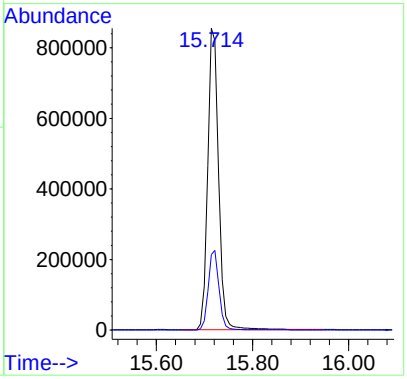


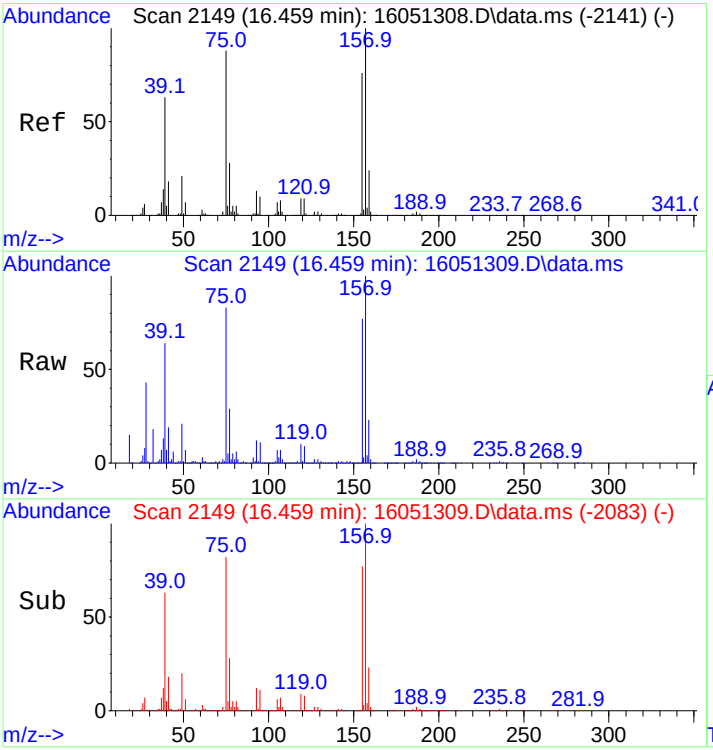


#67
n-Butylbenzene
Concen: 373.16 ng
RT: 15.714 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion: 91 Resp: 1344571

Ion	Ratio	Lower	Upper
91	100		
134	26.2	21.0	31.6

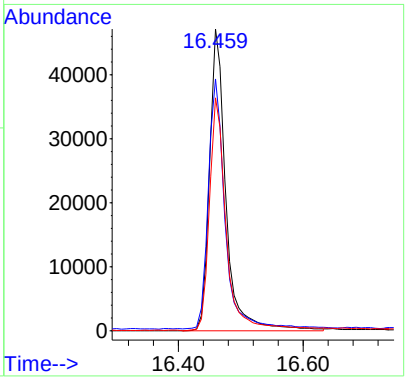




#68
1,2-Dibromo-3-chloropropane
Concen: 382.86 ng
RT: 16.459 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 16051309.D
Acq: 13 May 2016 3:56 pm

Tgt Ion:157 Resp: 86624

Ion	Ratio	Lower	Upper
157	100		
75	84.9	68.6	103.0
155	80.1	62.2	93.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051310.D
Acq On : 13 May 2016 4:35 pm
Operator : SG Instrument MSD-3
Sample : 500NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:47:32 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:46:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.751	130	97348	250.00	ng	0.00
20) 1,4-Difluorobenzene	8.693	114	435817	250.00	ng	0.00
32) d5-Chlorobenzene	12.952	117	312262	250.00	ng	0.00
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.843	65	188478	319.28	ng	0.00
Spiked Amount 250.000			Recovery = 127.71%			
48) d10-Ethylbenzene(SPK)	13.020	98	469690	218.83	ng	0.00
Spiked Amount 200.000			Recovery = 109.41%			
49) d8-Toluene(SURR)	11.101	98	454257	245.56	ng	0.00
Spiked Amount 250.000			Recovery = 98.22%			
50) 4-Bromofluorobenzene(S...	14.239	95	150647	244.93	ng	0.00
Spiked Amount 250.000			Recovery = 97.97%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.724	85	324450	502.38	ng	100
3) Chloromethane	1.905	50	356672	465.68	ng	100
4) Vinyl Chloride	2.018	62	496291	539.14	ng	99
5) Bromomethane	2.371	94	213686	522.30	ng	100
6) Chloroethane	2.477	64	269575	562.45	ng	99
7) Trichlorofluoromethane	2.755	101	693224	504.87	ng	100
8) 1,1-Dichloroethene	3.372	61	819410	495.14	ng	99
9) Acetone	3.417	43	303718	493.11	ng	99
10) Iodomethane	3.560	142	462784	705.04	ng	100
11) Carbon disulfide	3.651	76	1261426	486.92	ng	99
12) Methylene Chloride	4.065	49	588065	513.48	ng	100
13) trans,1,2-Dichloroethene	4.509	61	676258	615.62	ng	100
14) 1,1-Dichloroethane	5.284	63	836700	614.11	ng	100
15) Vinyl Acetate	5.329	43	386907	557.34	ng	100
16) cis,1,2-Dichloroethene	6.330	61	749890	589.01	ng	100
17) 2-Butanone	6.330	43	198387	450.50	ng	100
18) Chloroform	6.977	83	798794	624.96	ng	100
19) 1,1,1-Trichloroethane	7.225	97	408433	558.84	ng	100
22) Carbon Tetrachloride	7.496	117	478693	574.93	ng	100
23) Benzene	7.858	78	1402937	444.66	ng	100
24) 1,2-Dichloroethane	7.986	62	594793	658.54	ng	100
25) Trichloroethene	9.062	95	356253	503.65	ng	99
26) 1,2-Dichloropropane	9.521	63	371332	513.46	ng	99
27) Dibromomethane	9.656	93	279680	690.43	ng	98
28) Bromodichloromethane	10.017	83	427358	542.70	ng	99
29) cis,1,3-Dichloropropene	10.732	75	440476	546.00	ng	100
30) trans,1,3-Dichloropropene	11.568	75	313906	572.09	ng	98
31) 4-Methyl-2-Pentanone	10.973	43	524675	492.66	ng	100
33) Toluene	11.199	91	1490640	481.28	ng	100
34) 1,1,2-Trichloroethane	11.824	83	246925	461.31	ng	100
35) Tetrachloroethene	11.884	166	401626	495.12	ng	100
36) 2-Hexanone	12.110	43	414140	521.20	ng	99
37) Chlorodibromomethane	12.275	129	349145	480.91	ng	100
38) Ethylene Dibromide	12.396	107	316021	476.87	ng	99
39) Chlorobenzene	12.983	112	964308	506.68	ng	98
40) 1,1,1,2-Tetrachloroethane	13.095	131	336159	497.68	ng	99
41) Ethylbenzene	13.111	91	1772307	503.70	ng	100
42) M&P-Xylene	13.261	91	3003411	1003.83	ng	100
43) O-Xylene	13.667	91	1573704	507.36	ng	100
44) Styrene	13.698	104	1265623	478.01	ng	100
45) Bromoform	13.878	173	288551	504.30	ng	100
46) 1,1,2,2-Tetrachloroethane	14.390	83	415384m	456.52	ng	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051310.D
Acq On : 13 May 2016 4:35 pm
Operator :
Sample : 500NG-VOSTSTD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:47:32 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:46:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,2,3-Trichloropropane	14.435	75	354758m	471.63 ng	
51) Isopropylbenzene	14.059	105	1861748	516.46 ng	100
52) 1,3,5-Trimethylbenzene	14.668	105	1760344	501.06 ng	99
53) 1,2,4-Trimethylbenzene	15.030	105	1765566	508.97 ng	99
54) 1,3-Dichlorobenzene	15.300	146	941721	520.18 ng	100
55) 1,4-Dichlorobenzene	15.398	146	978341	511.26 ng	100
56) 1,2-Dichlorobenzene	15.729	146	870903	508.61 ng	100
57) 1,2,4-Trichlorobenzene	17.197	180	779260	536.57 ng	99
58) Hexachlorobutadiene	17.317	225	399154	522.88 ng	100
59) Naphthalene	17.438	128	1962306	550.48 ng	100
60) 1,1-Dichloropropene	7.519	75	486444	490.15 ng	99
61) 1,3-Dichloropropane	12.019	76	516643	466.75 ng	100
62) Bromobenzene	14.367	77	667003	519.92 ng	100
63) n-Propylbenzene	14.488	91	2333076	511.41 ng	100
64) tert-Butylbenzene	14.969	119	1387882	508.20 ng	99
65) sec-Butylbenzene	15.188	105	2141959	508.97 ng	100
66) p-Isopropyltoluene	15.338	119	1904120	513.22 ng	100
67) n-Butylbenzene	15.714	91	1782319	496.91 ng	99
68) 1,2-Dibromo-3-chloropr...	16.459	157	136359	605.43 ng	100

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

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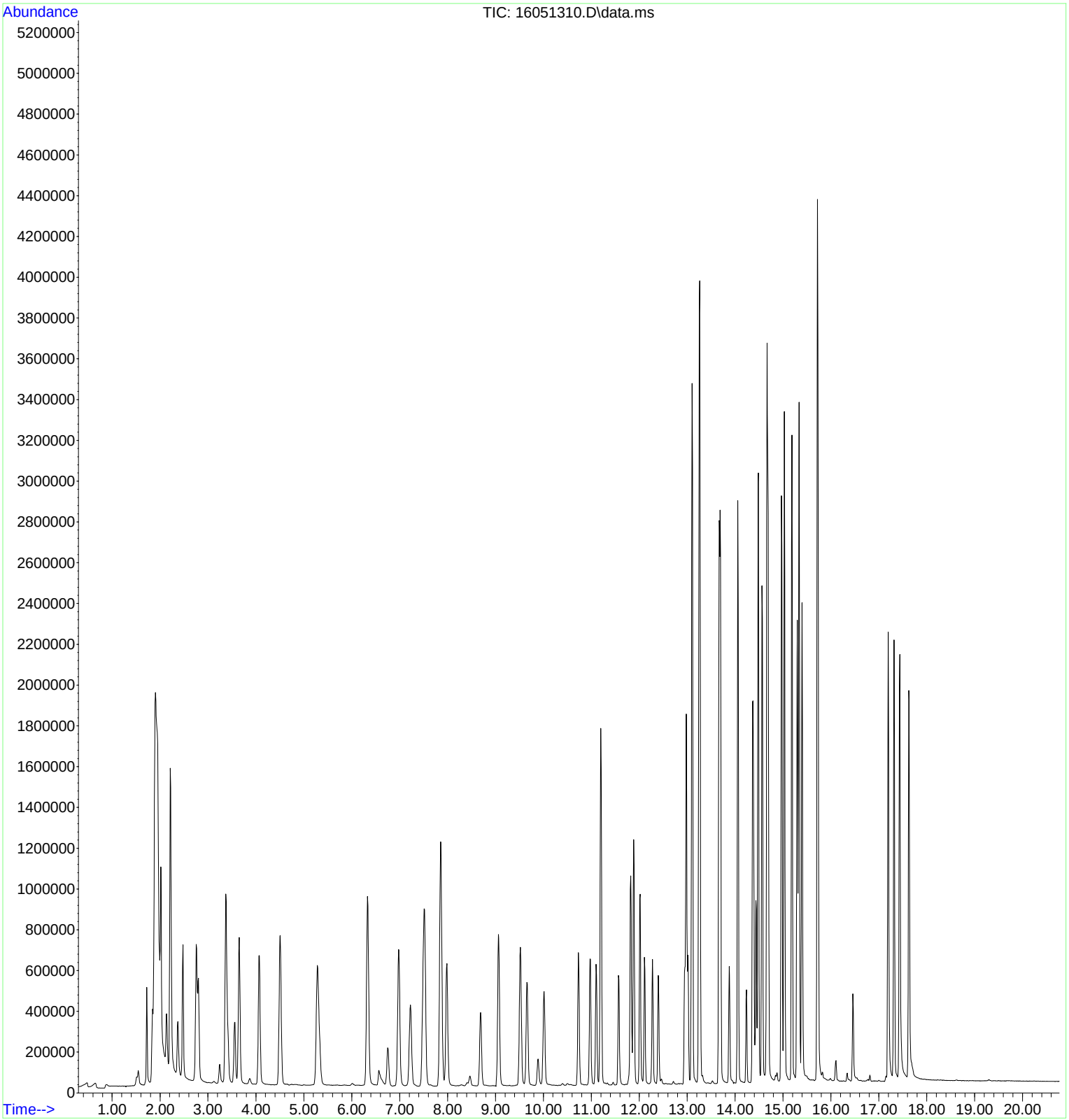
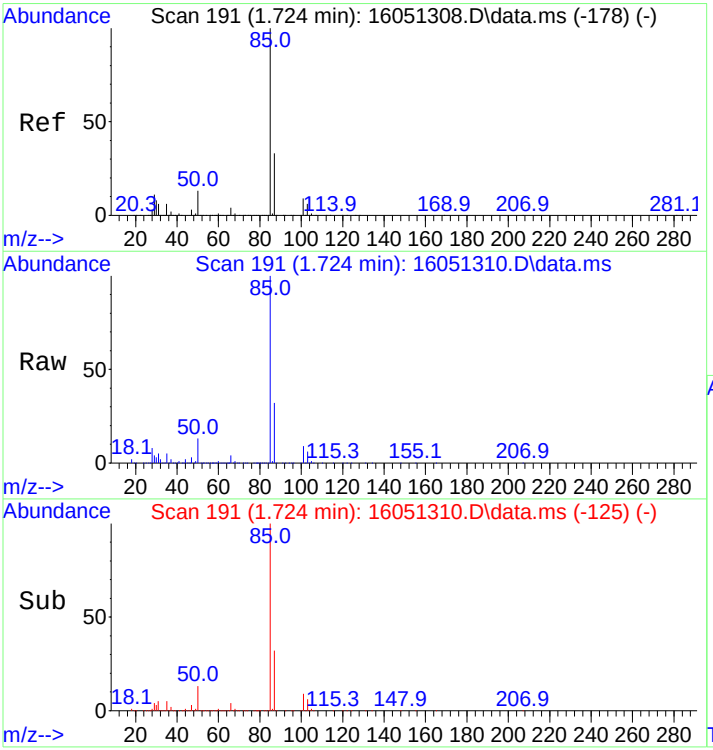
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051310.D
Acq On : 13 May 2016 4:35 pm
Operator : SG Instrument MSD-3
Sample : 500NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 13:20:32 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

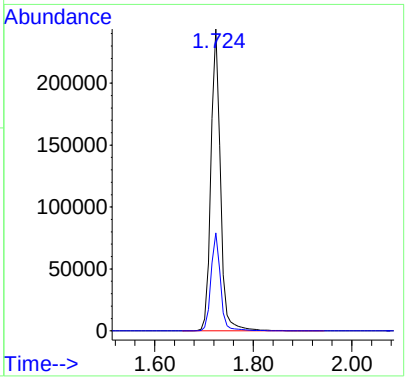


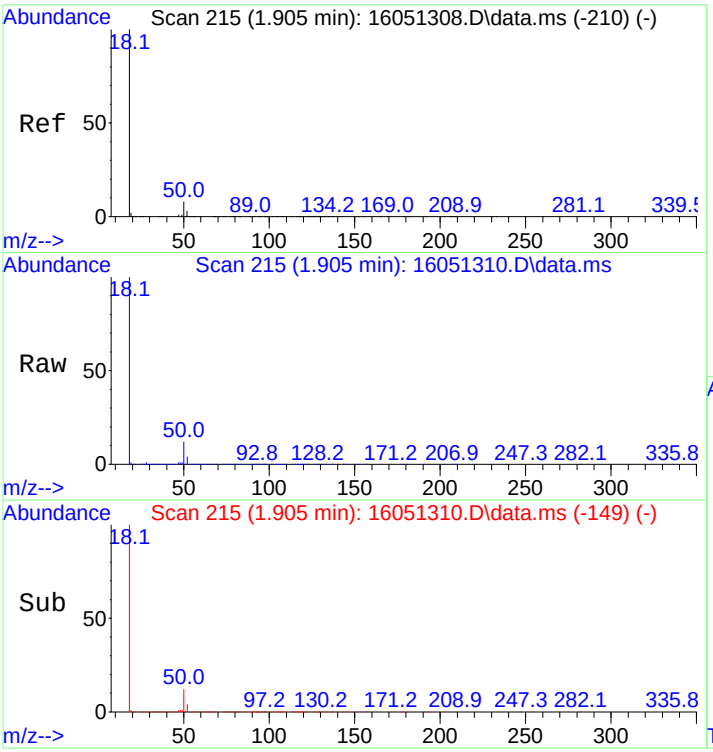


#2
Dichlorodifluoromethane
Concen: 502.38 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 85 Resp: 324450

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.0	39.0

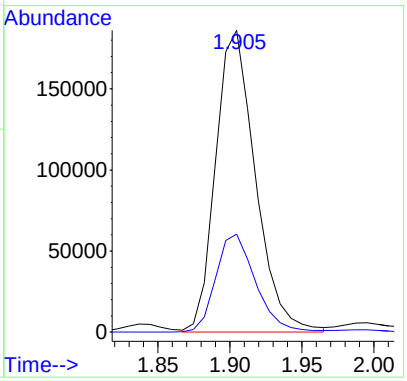


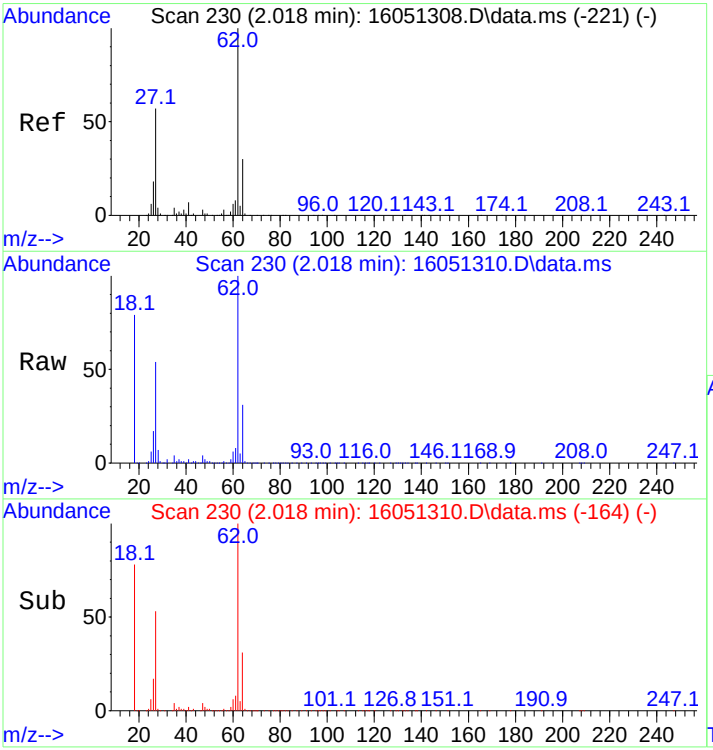


#3
Chloromethane
Concen: 465.68 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 50 Resp: 356672

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.0	39.0

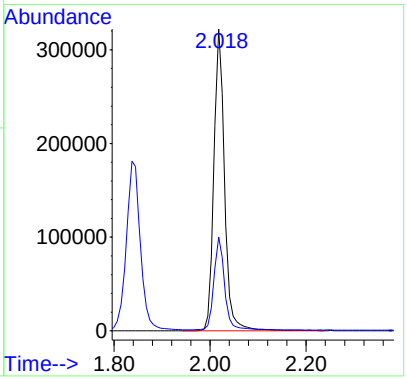


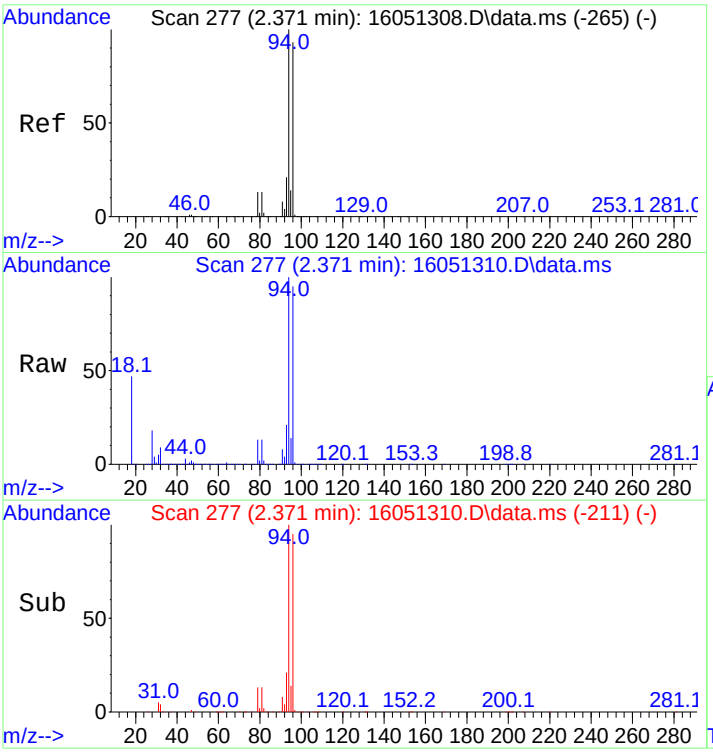


#4
Vinyl Chloride
Concen: 539.14 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 62 Resp: 496291

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.7	38.5

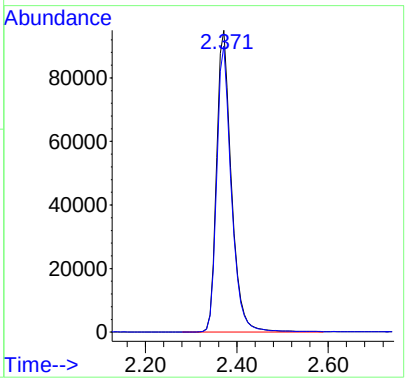


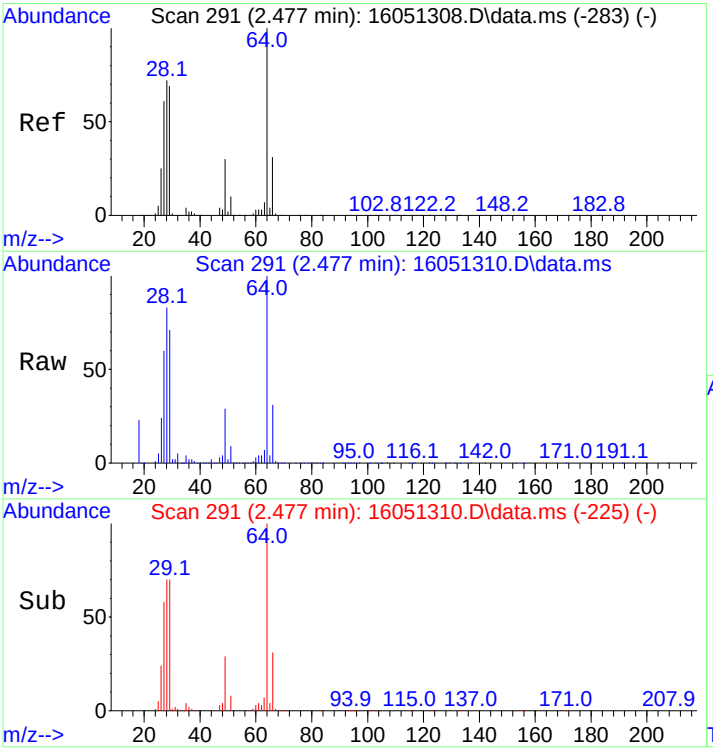


#5
Bromomethane
Concen: 522.30 ng
RT: 2.371 min Scan# 277
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 94 Resp: 213686

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.5	111.7

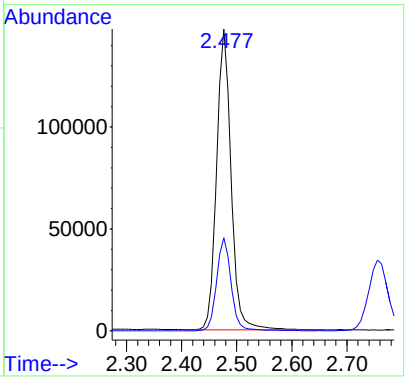


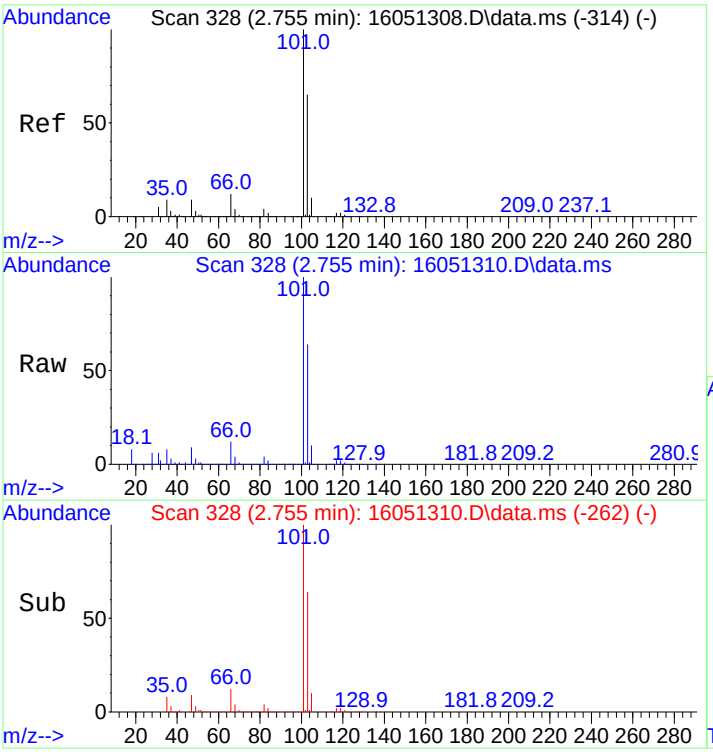


#6
Chloroethane
Concen: 562.45 ng
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 64 Resp: 269575

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4

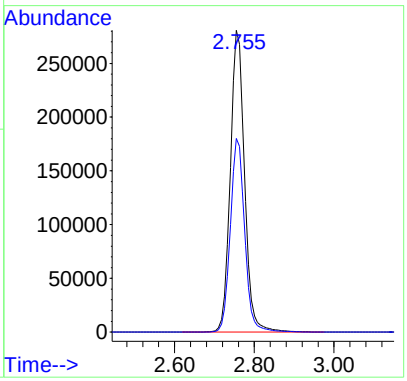


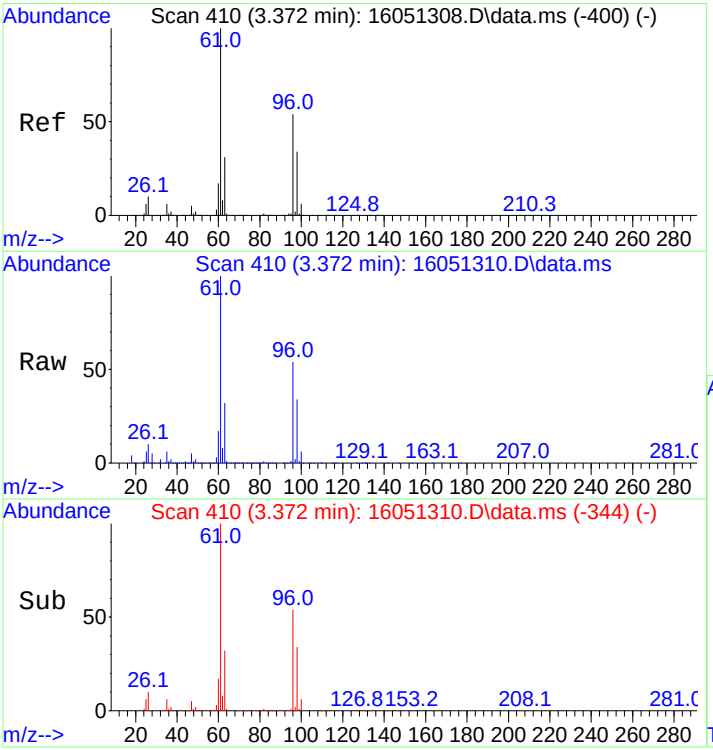


#7
Trichlorofluoromethane
Concen: 504.87 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:101 Resp: 693224

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.8	77.6

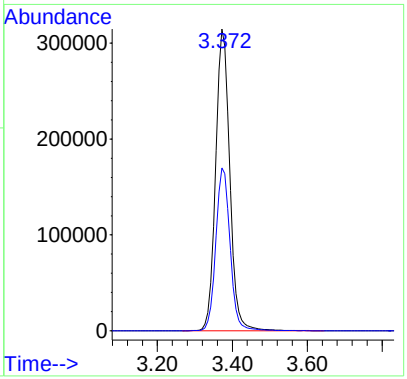


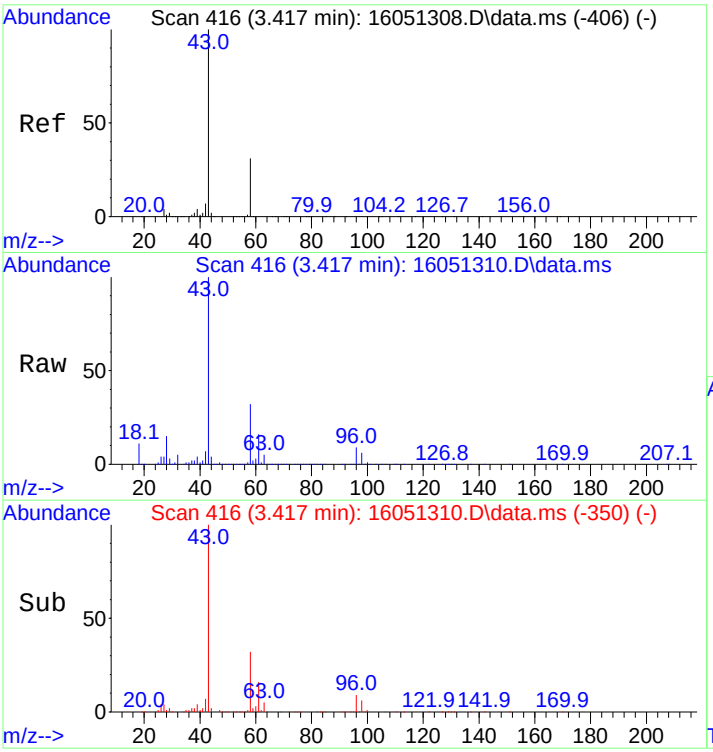


#8
1,1-Dichloroethene
Concen: 495.14 ng
RT: 3.372 min Scan# 410
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 61 Resp: 819410

Ion	Ratio	Lower	Upper
61	100		
96	54.4	44.1	66.1

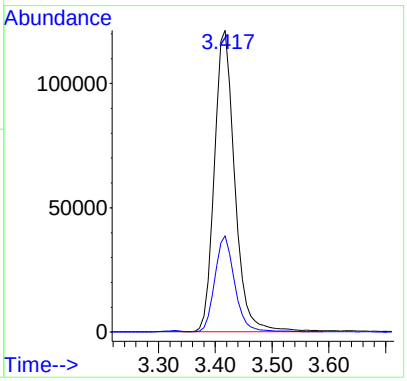


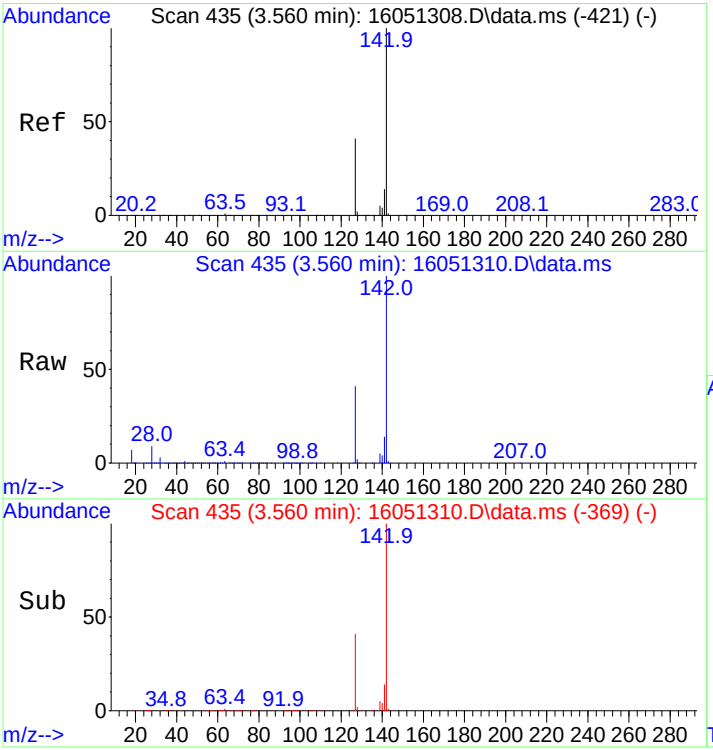


#9
Acetone
Concen: 493.11 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 303718

Ion	Ratio	Lower	Upper
43	100		
58	31.3	24.7	37.1

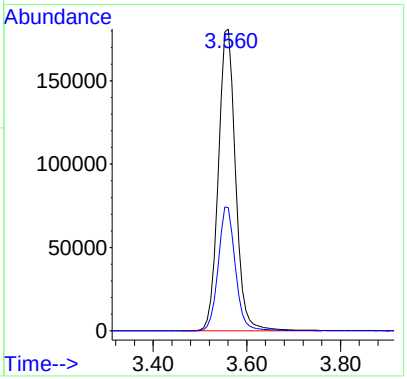


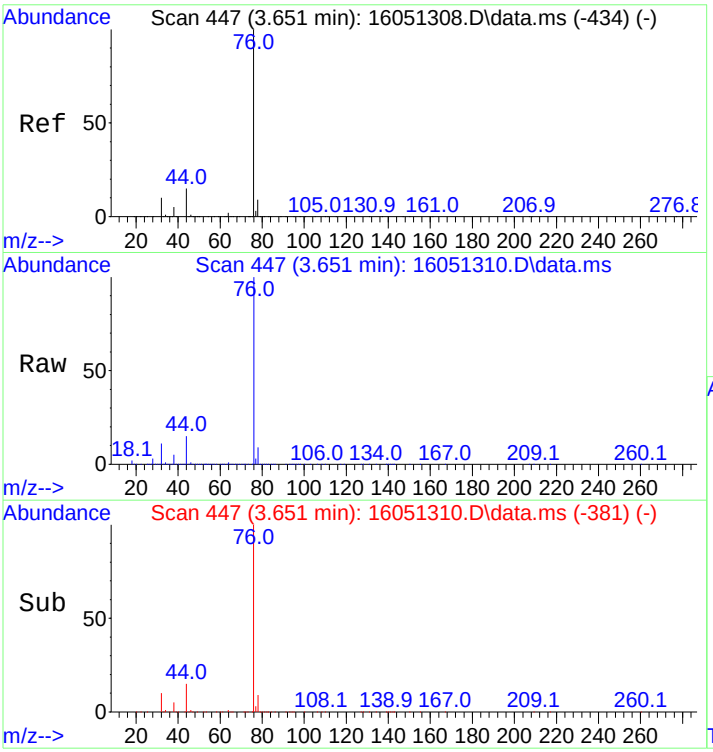


#10
Iodomethane
Concen: 705.04 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:142 Resp: 462784

Ion	Ratio	Lower	Upper
142	100		
127	40.9	32.8	49.2

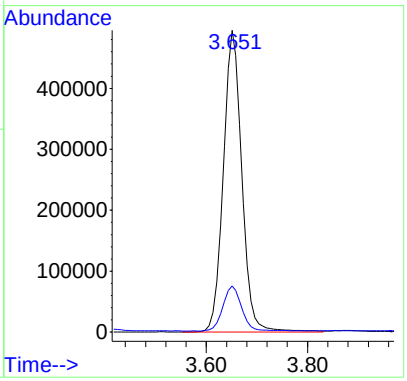


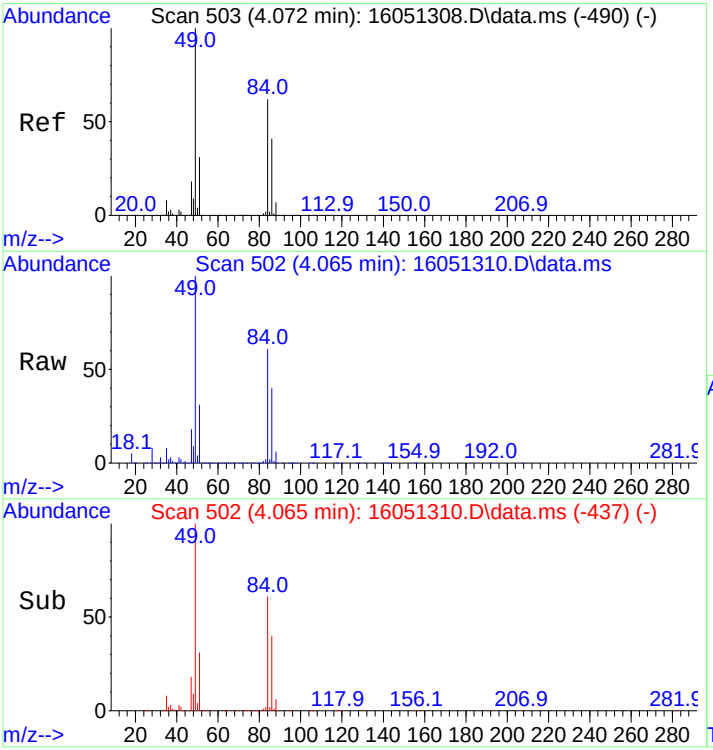


#11
Carbon disulfide
Concen: 486.92 ng
RT: 3.651 min Scan# 447
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 76 Resp: 1261426

Ion	Ratio	Lower	Upper
76	100		
44	15.0	12.2	18.4

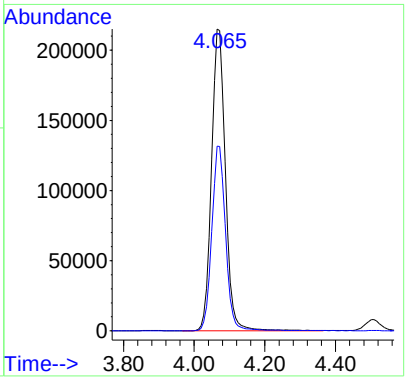


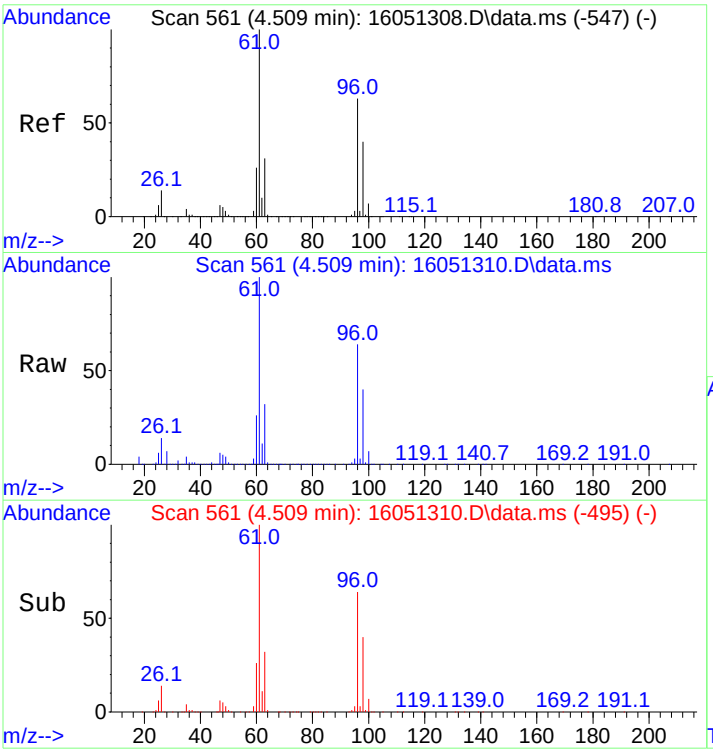


#12
Methylene Chloride
Concen: 513.48 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.008 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 49 Resp: 588065

Ion	Ratio	Lower	Upper
49	100		
84	60.8	48.4	72.6

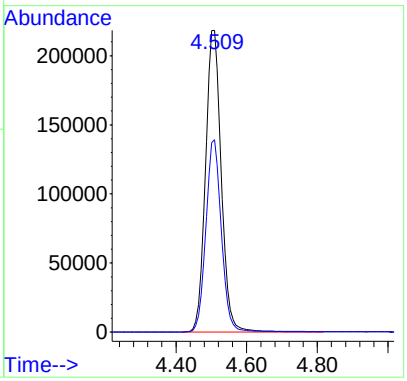


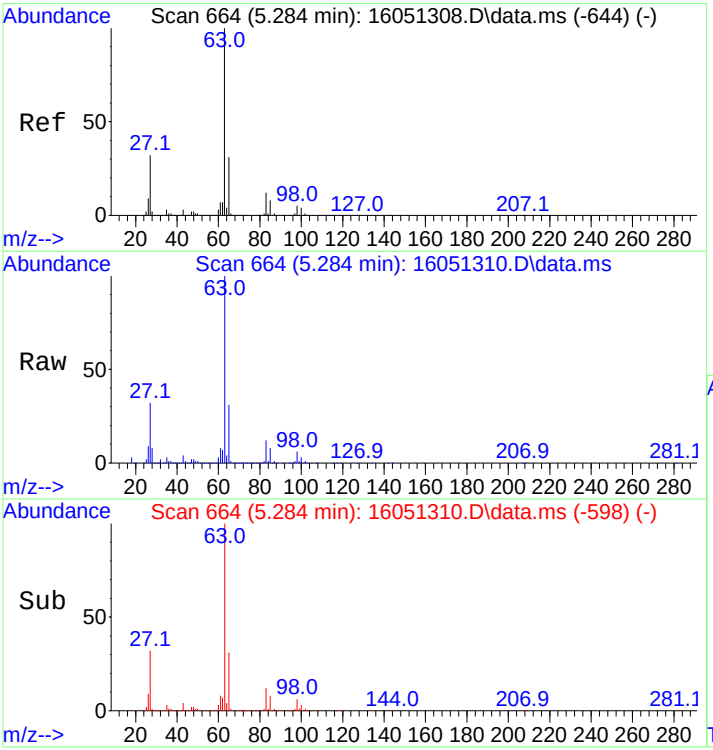


#13
trans,1,2-Dichloroethene
Concen: 615.62 ng
RT: 4.509 min Scan# 561
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 61 Resp: 676258

Ion	Ratio	Lower	Upper
61	100		
96	62.6	50.2	75.4

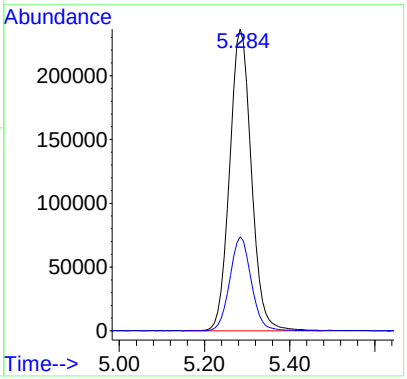


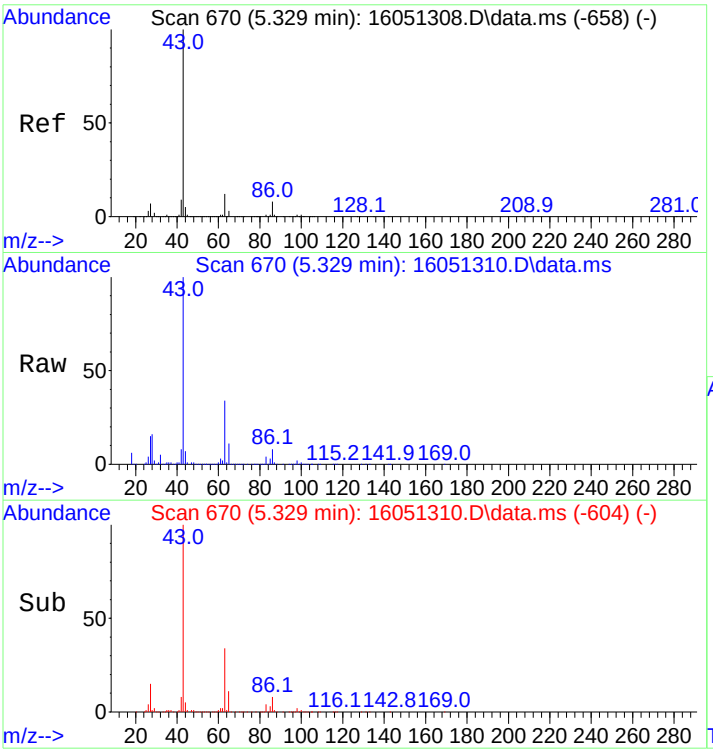


#14
1,1-Dichloroethane
Concen: 614.11 ng
RT: 5.284 min Scan# 664
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 63 Resp: 836700

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0

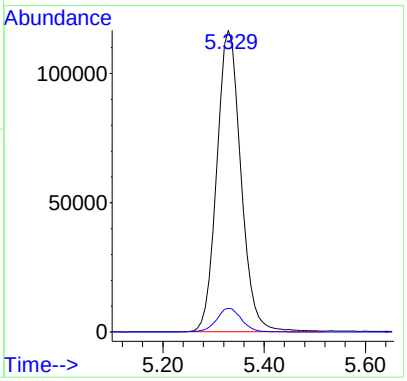


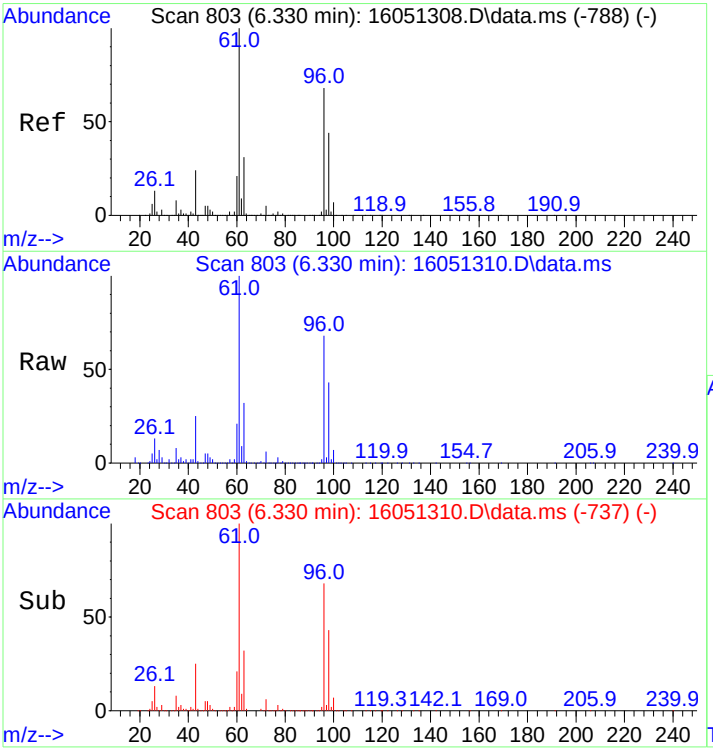


#15
Vinyl Acetate
Concen: 557.34 ng
RT: 5.329 min Scan# 670
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 386907

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.6	9.8

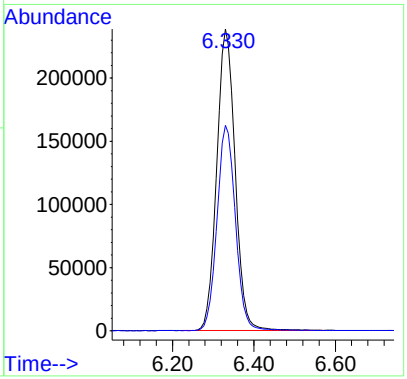


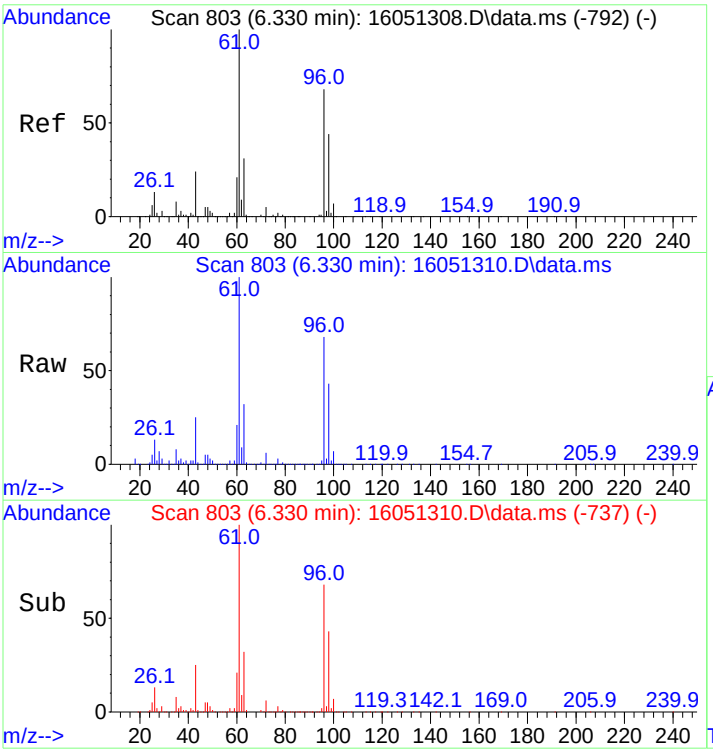


#16
cis,1,2-Dichloroethene
Concen: 589.01 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 61 Resp: 749890

Ion	Ratio	Lower	Upper
61	100		
96	68.1	54.6	81.8

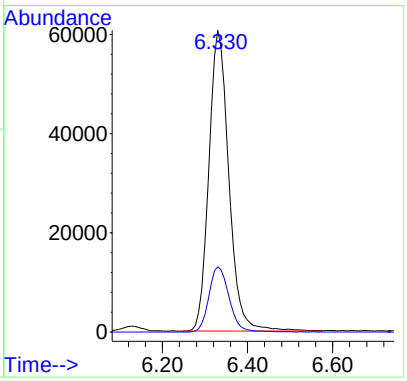


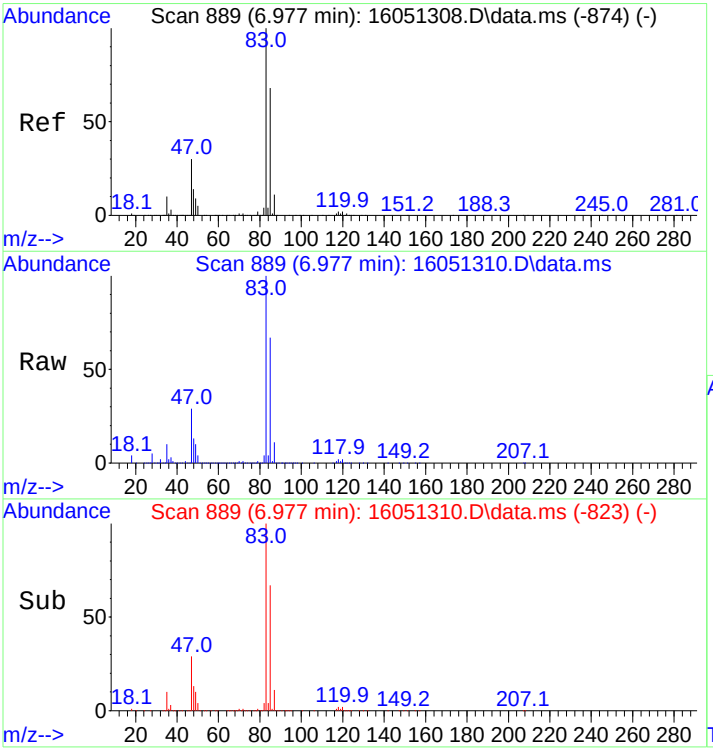


#17
2-Butanone
Concen: 450.50 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 198387

Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.4	26.2

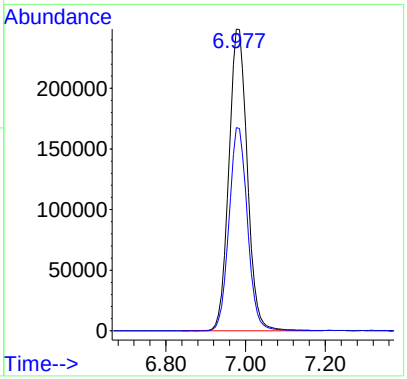


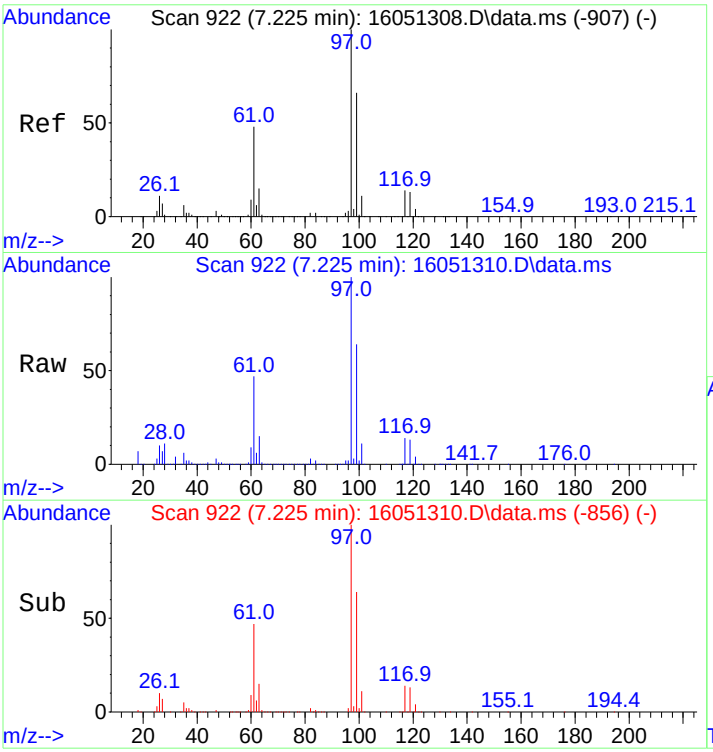


#18
Chloroform
Concen: 624.96 ng
RT: 6.977 min Scan# 889
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 798794

Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.9	80.9

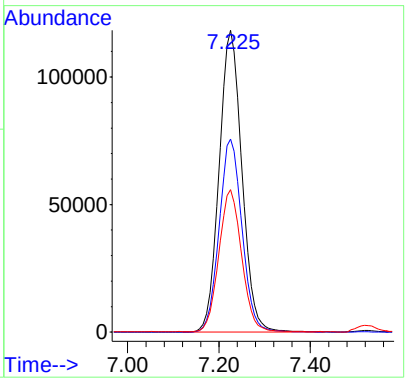


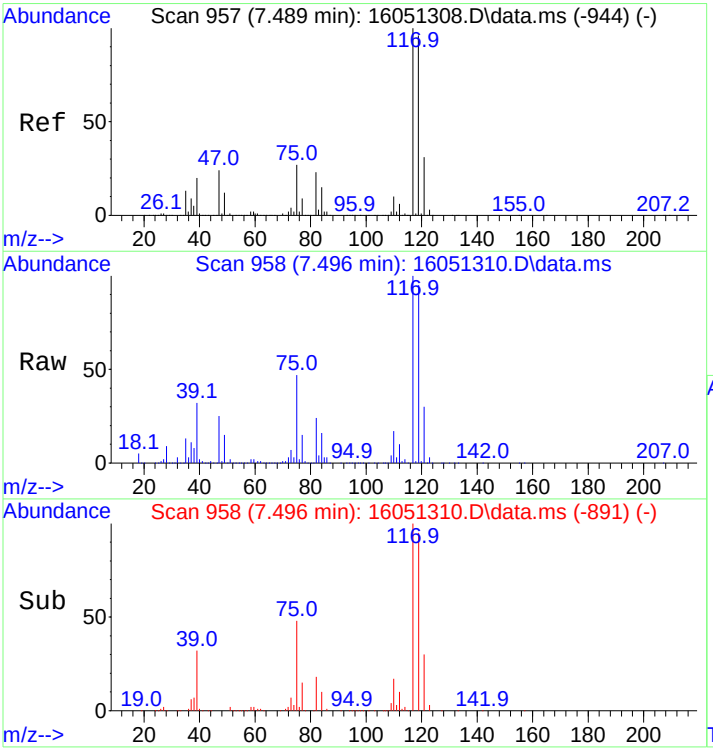


#19
1,1,1-Trichloroethane
Concen: 558.84 ng
RT: 7.225 min Scan# 922
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 97 Resp: 408433

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	47.1	37.6	56.4

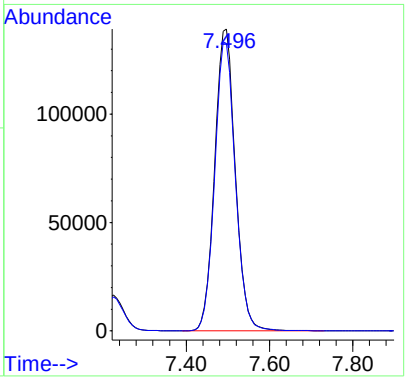


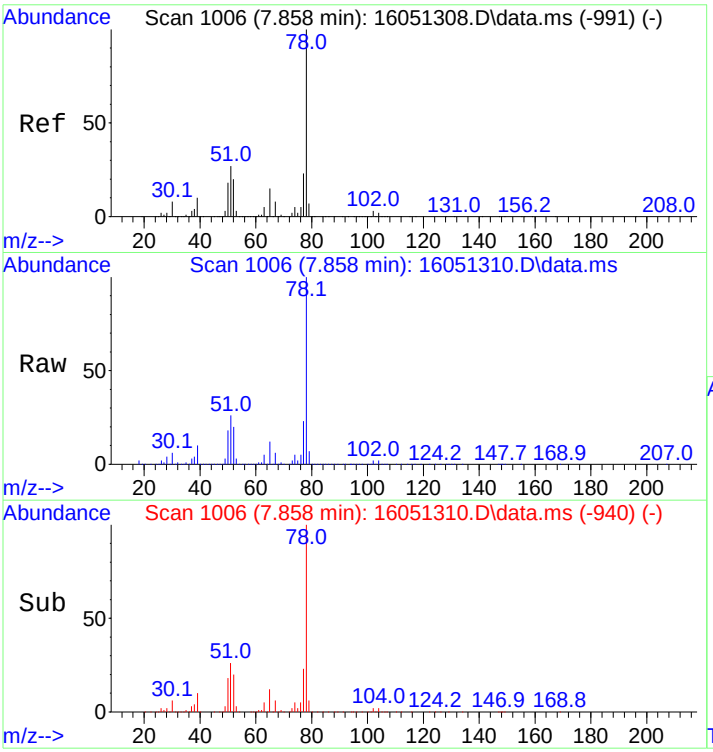


#22
Carbon Tetrachloride
Concen: 574.93 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:117 Resp: 478693

Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.0	115.4

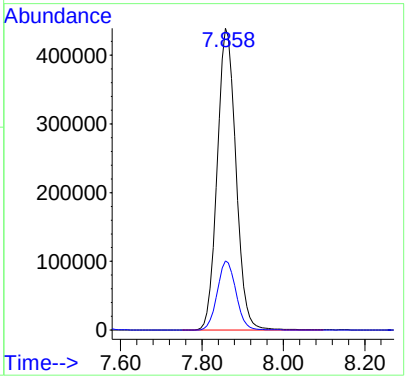


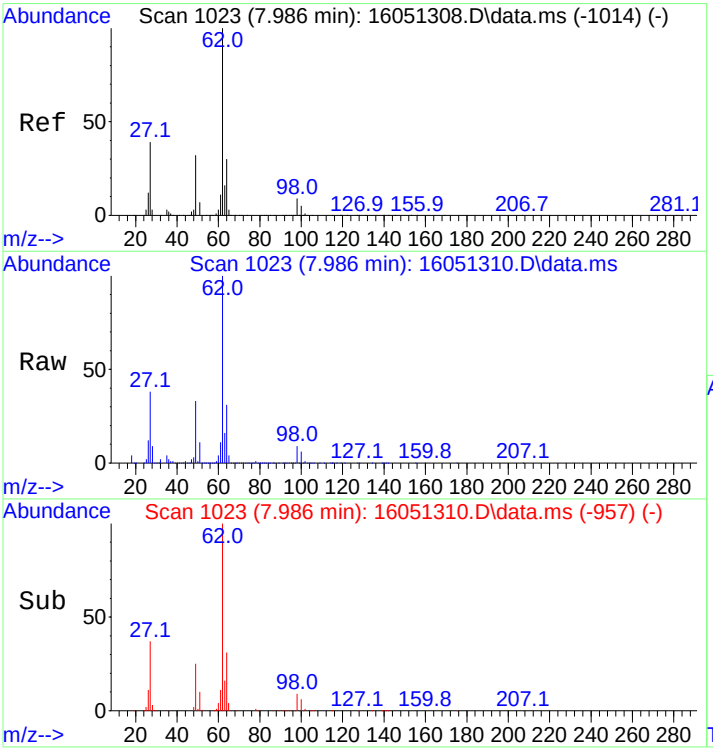


#23
Benzene
Concen: 444.66 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 78 Resp: 1402937

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

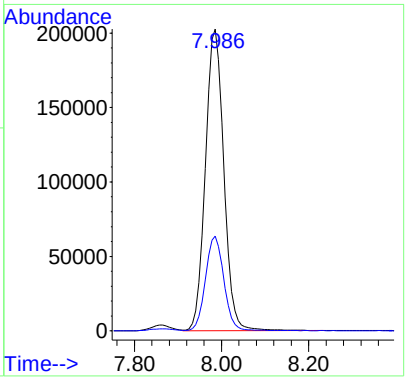


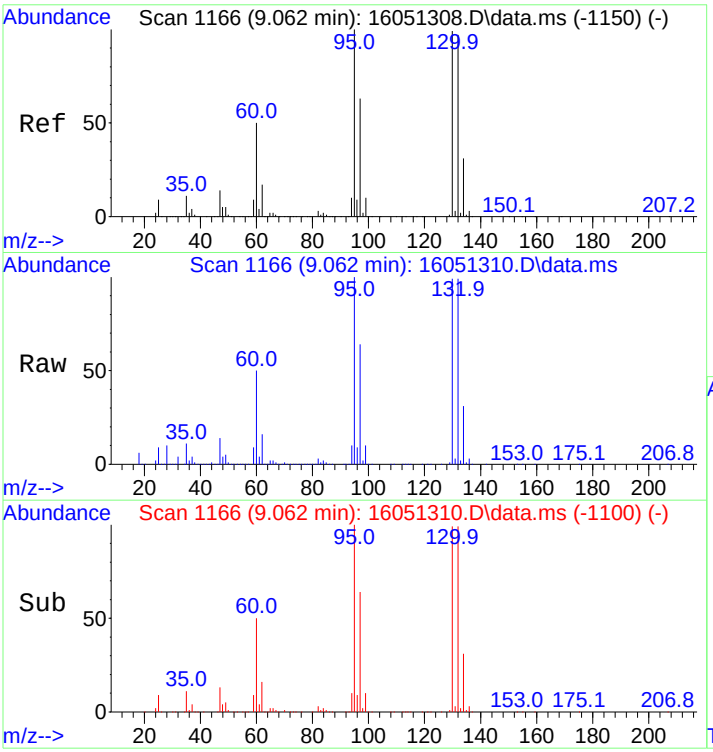


#24
1,2-Dichloroethane
Concen: 658.54 ng
RT: 7.986 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 62 Resp: 594793

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.8	37.2

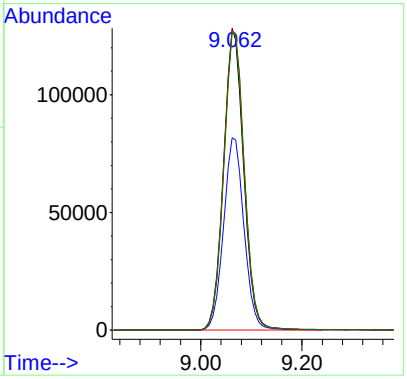


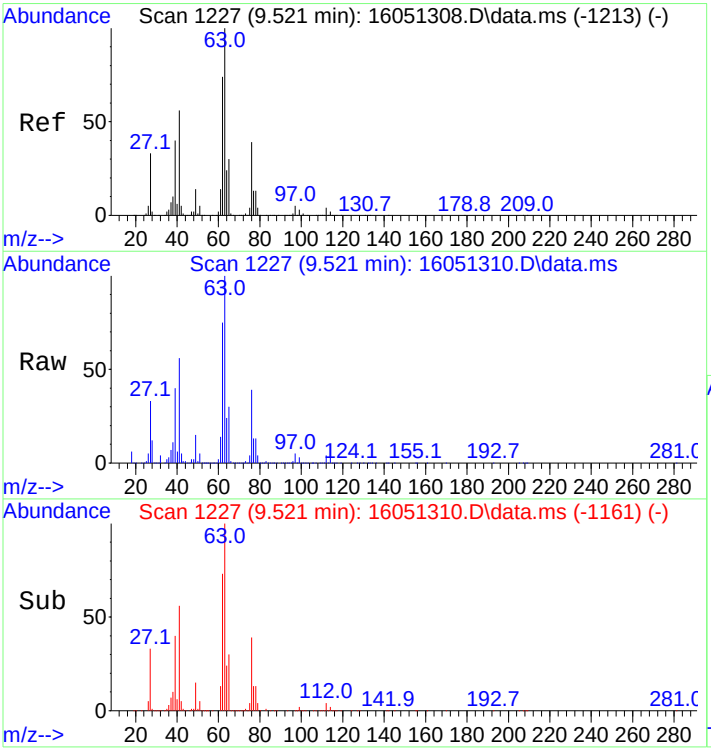


#25
Trichloroethene
Concen: 503.65 ng
RT: 9.062 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 95 Resp: 356253

Ion	Ratio	Lower	Upper
95	100		
97	64.7	51.8	77.8
130	101.5	81.9	122.9
132	101.1	81.2	121.8

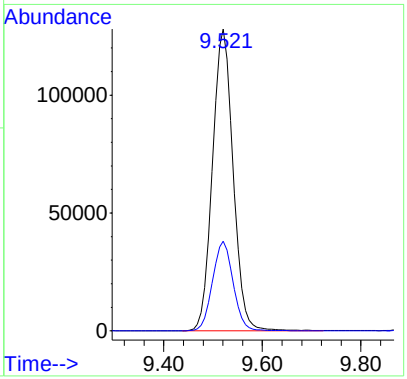


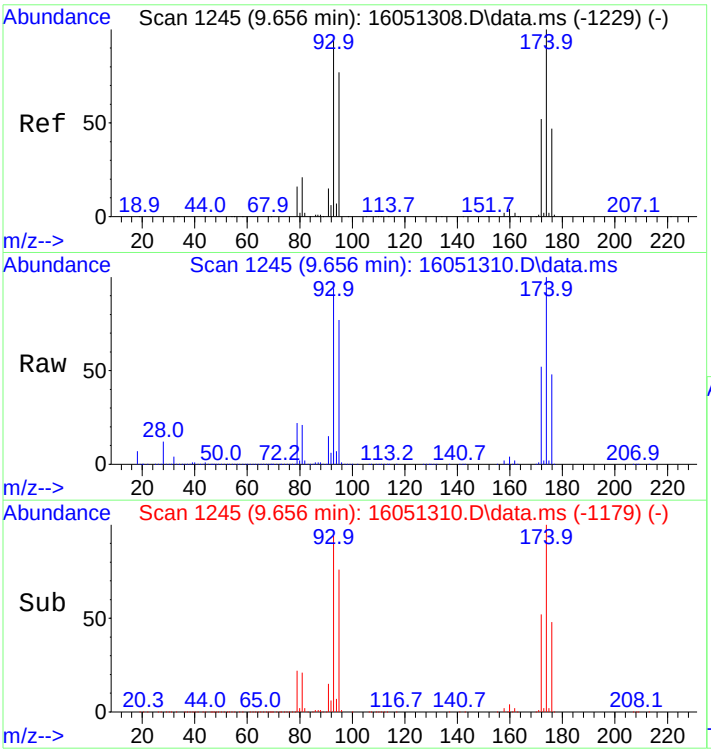


#26
1,2-Dichloropropane
Concen: 513.46 ng
RT: 9.521 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 63 Resp: 371332

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.2	36.2

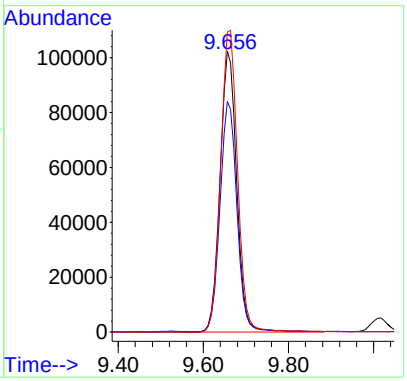


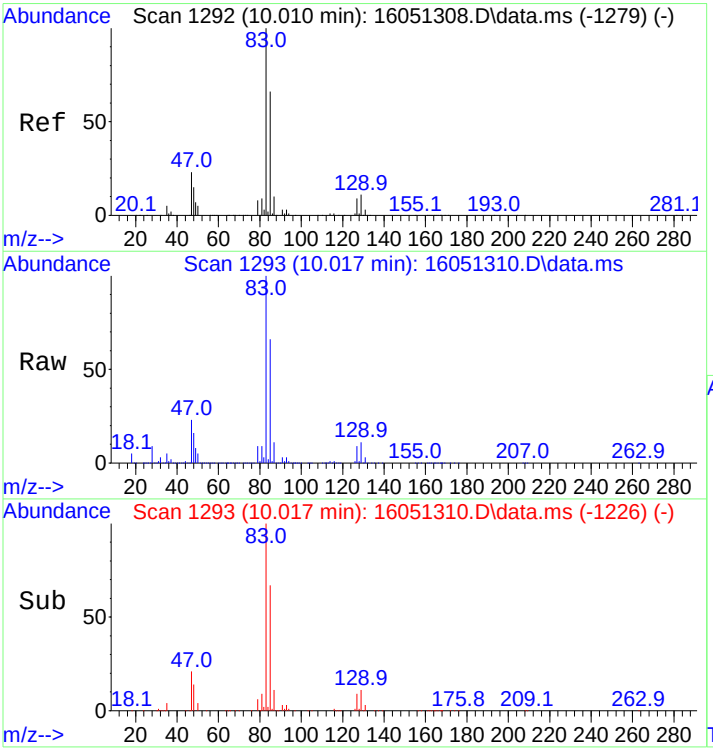


#27
Dibromomethane
Concen: 690.43 ng
RT: 9.656 min Scan# 1245
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 93 Resp: 279680

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.5	98.3
174	109.2	85.5	128.3

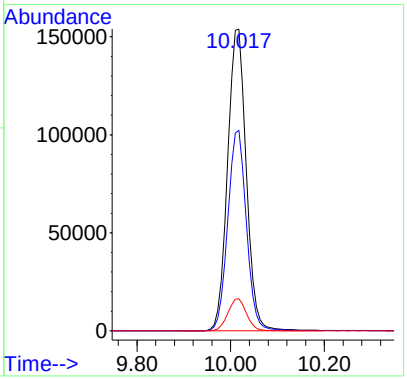


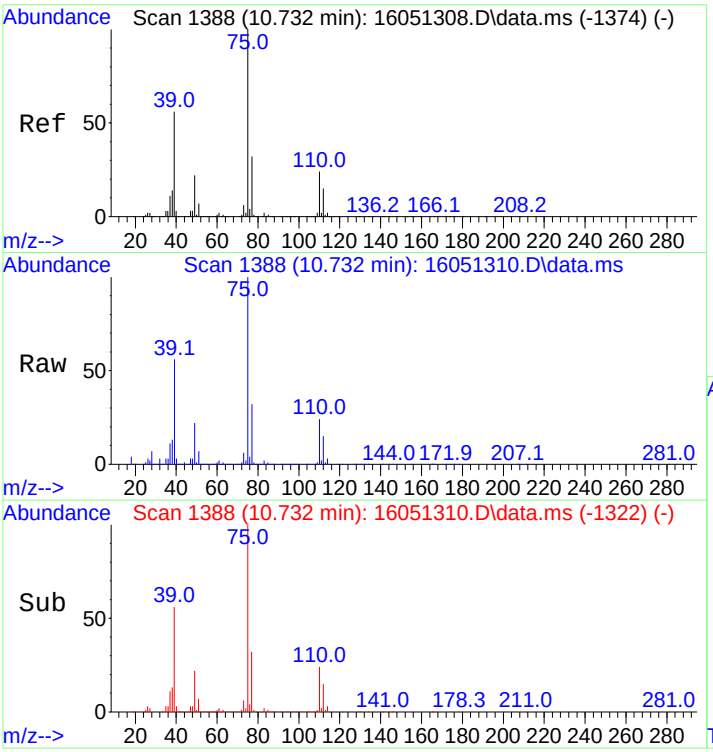


#28
Bromodichloromethane
Concen: 542.70 ng
RT: 10.017 min Scan# 1293
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 427358

Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.5	78.7
87	10.7	8.3	12.5

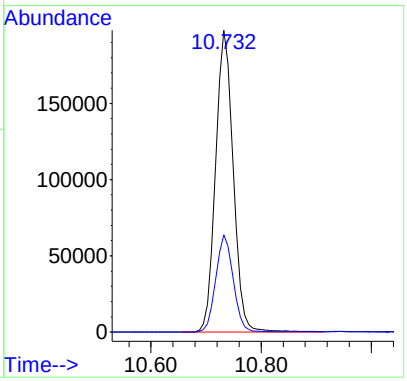


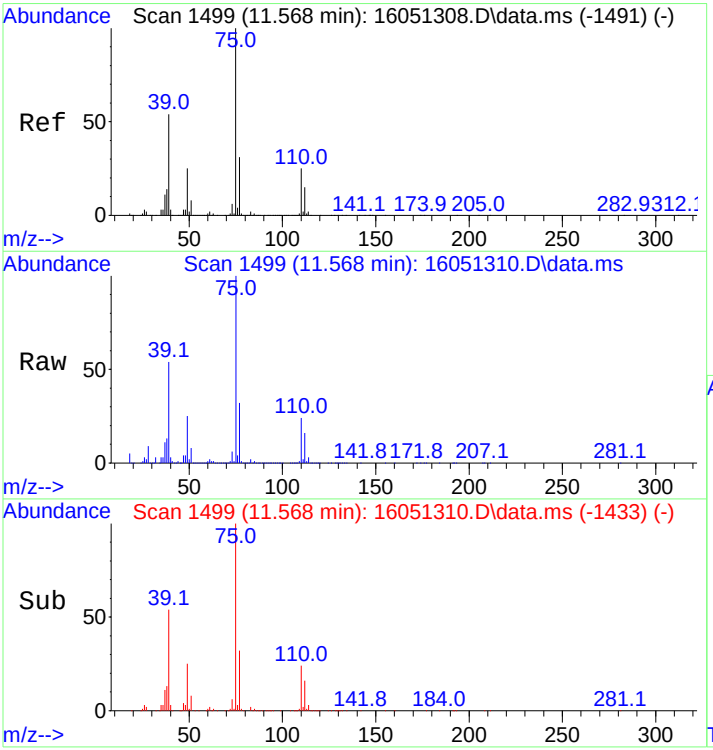


#29
cis,1,3-Dichloropropene
Concen: 546.00 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 440476

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4

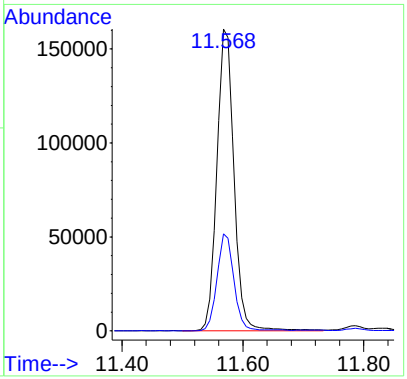


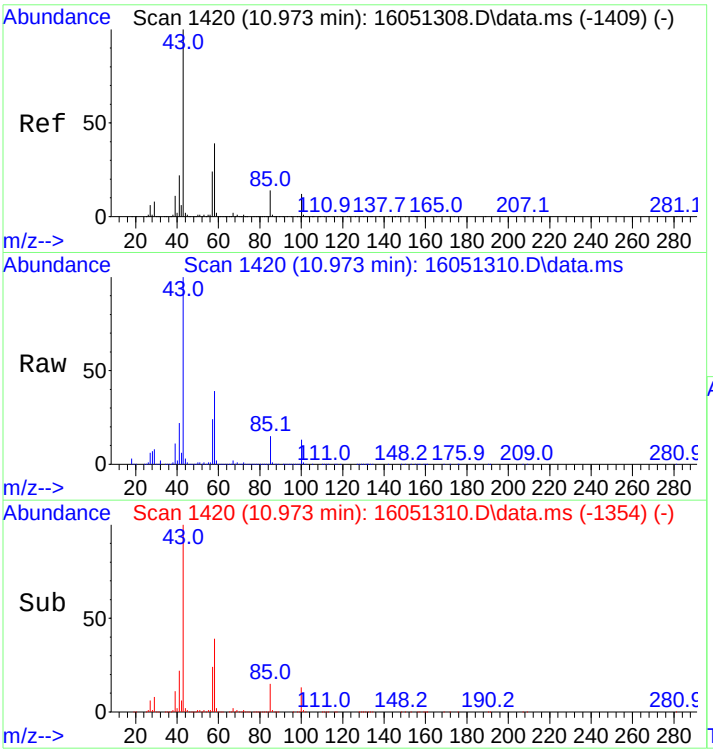


#30
trans,1,3-Dichloropropene
Concen: 572.09 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 313906

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.0	39.0

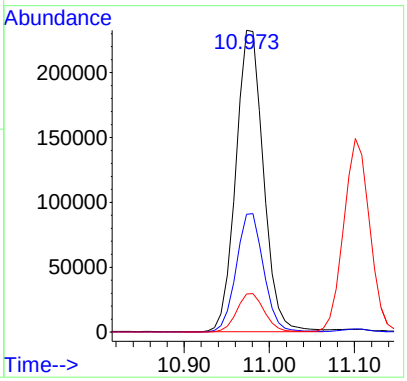


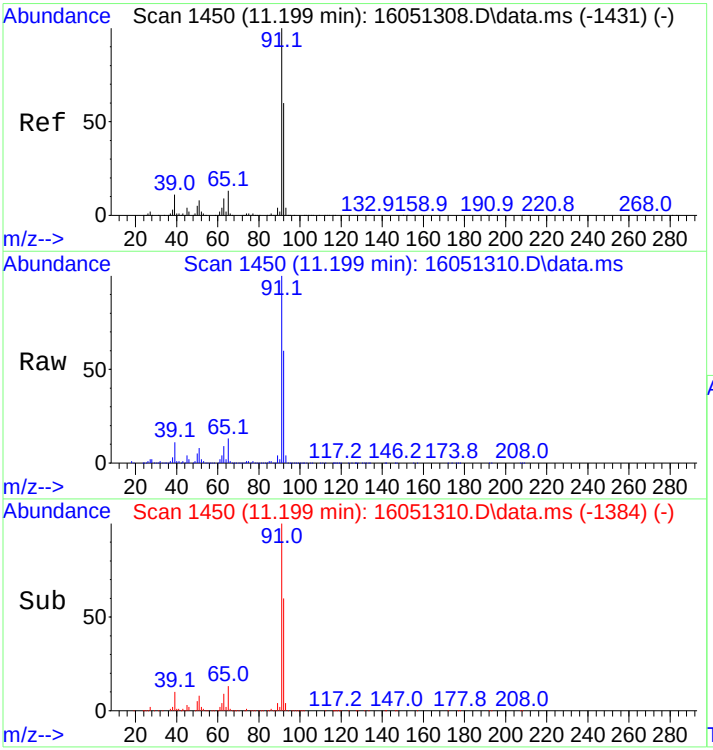


#31
4-Methyl-2-Pentanone
Concen: 492.66 ng
RT: 10.973 min Scan# 1420
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 524675

Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.3	46.9
100	12.9	10.2	15.2

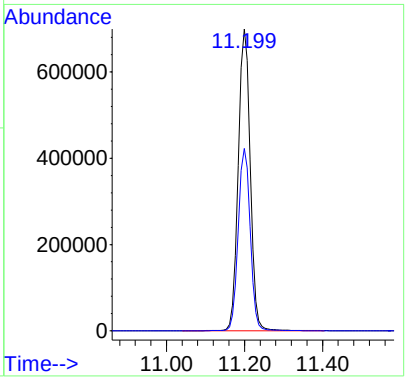


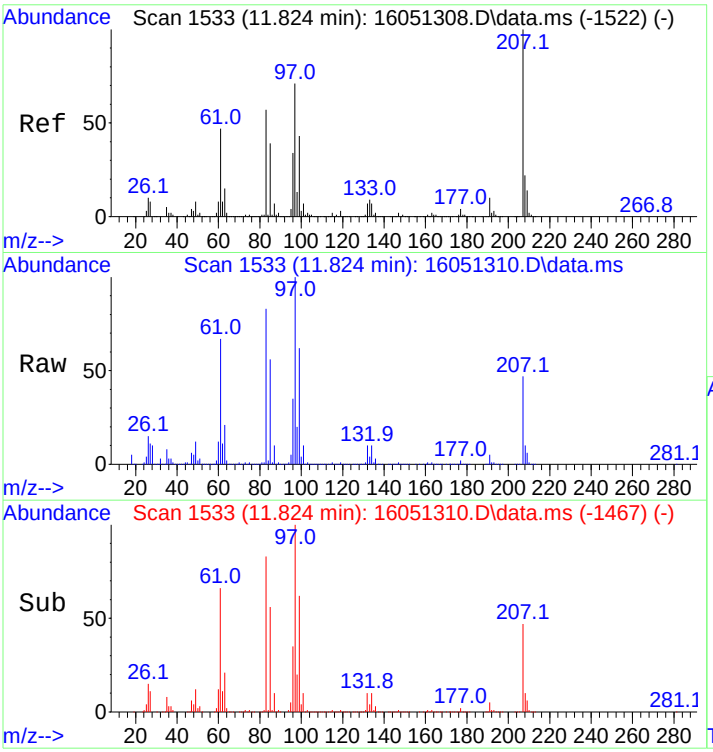


#33
Toluene
Concen: 481.28 ng
RT: 11.199 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1490640

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.6	73.0

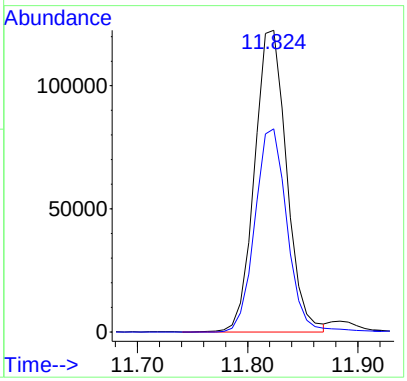


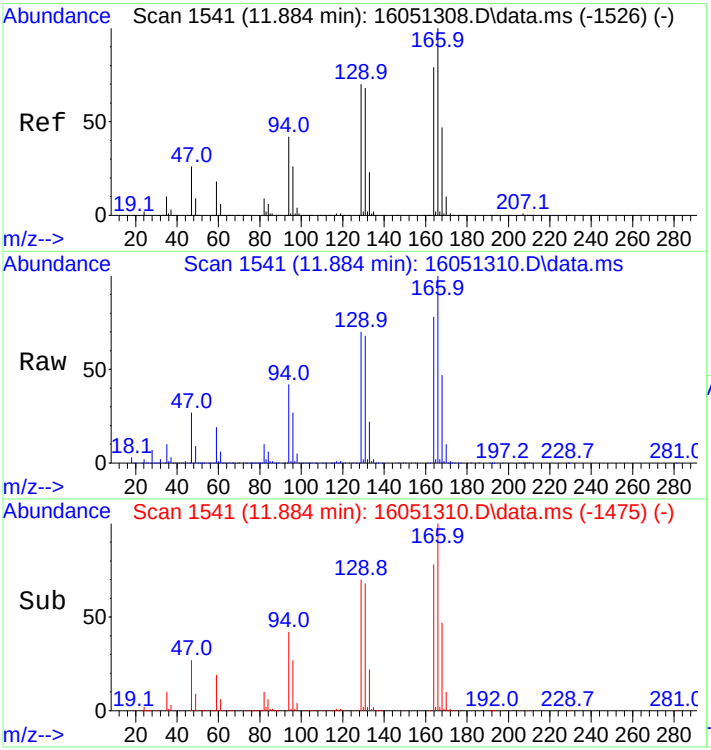


#34
1,1,2-Trichloroethane
Concen: 461.31 ng
RT: 11.824 min Scan# 1533
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 246925

Ion	Ratio	Lower	Upper
83	100		
85	68.1	54.7	82.1

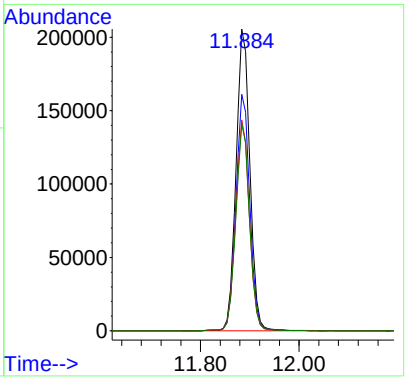


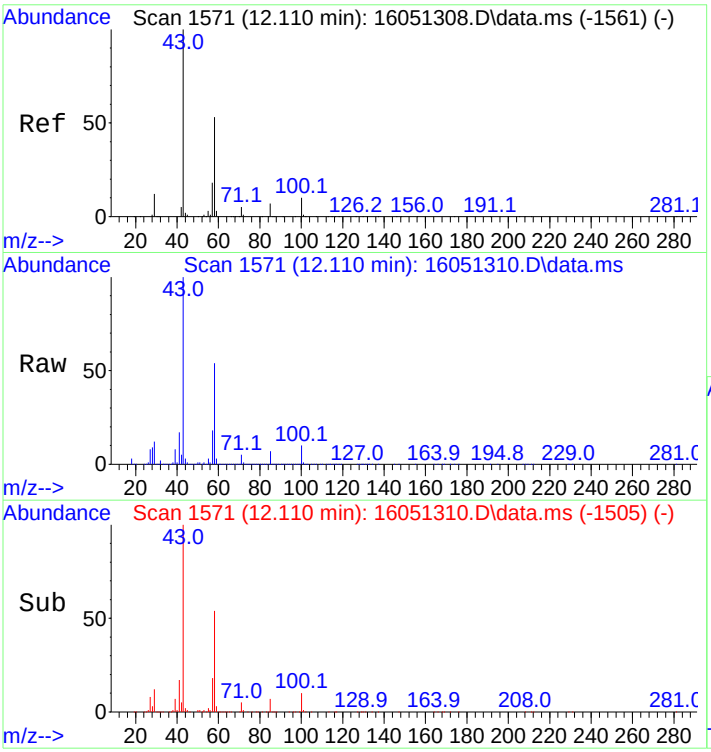


#35
Tetrachloroethene
Concen: 495.12 ng
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:166 Resp: 401626

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.2	94.8
129	69.3	55.5	83.3
131	68.3	55.2	82.8

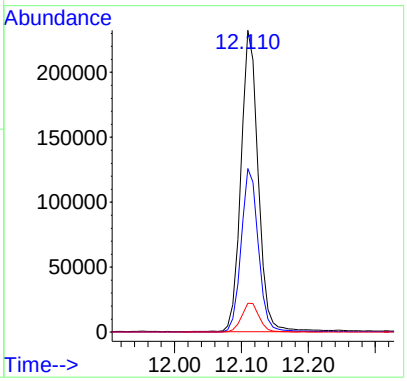


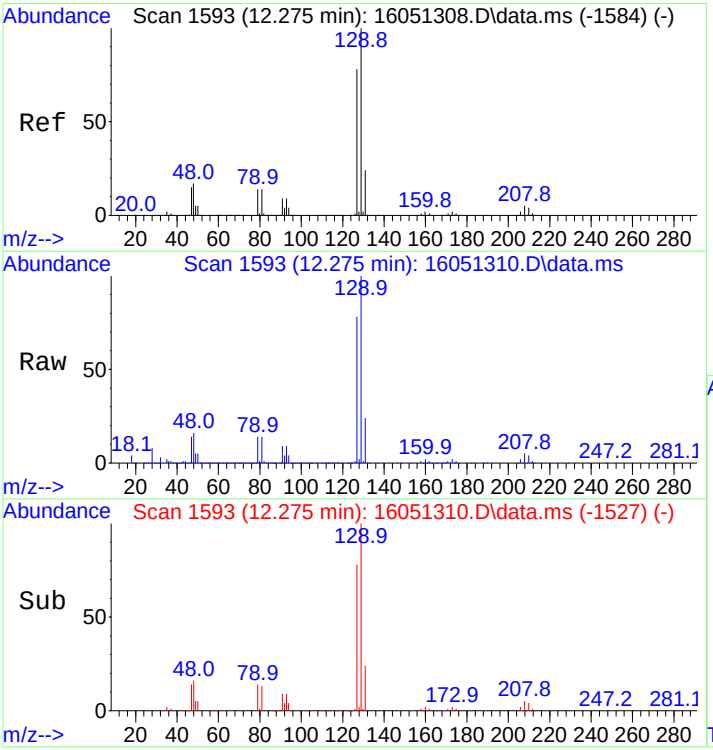


#36
2-Hexanone
Concen: 521.20 ng
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 414140

Ion	Ratio	Lower	Upper
43	100		
58	54.9	43.6	65.4
100	10.0	7.8	11.8

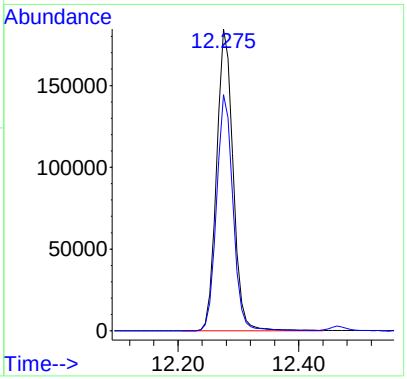


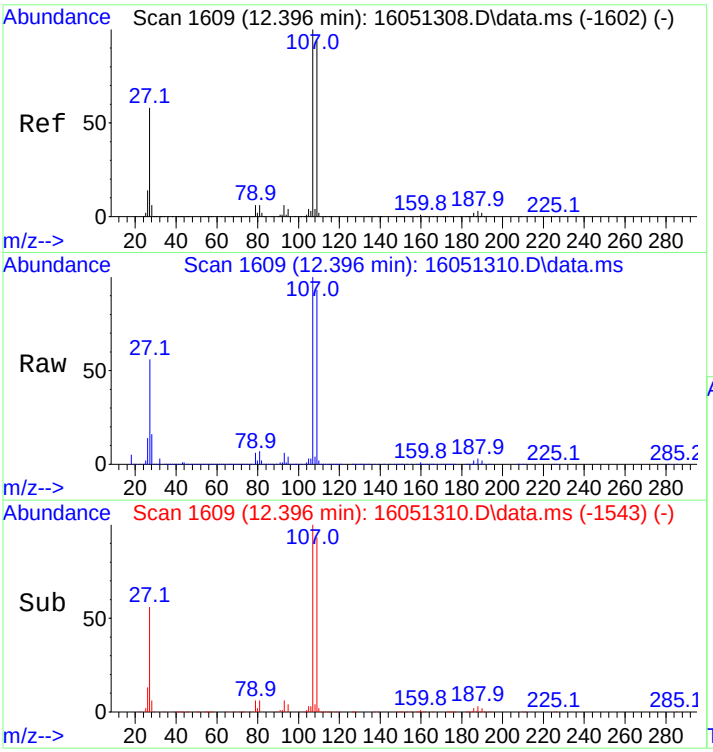


#37
Chlorodibromomethane
Concen: 480.91 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:129 Resp: 349145

Ion	Ratio	Lower	Upper
129	100		
127	77.9	62.3	93.5

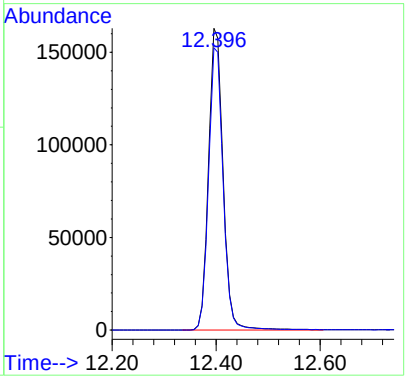


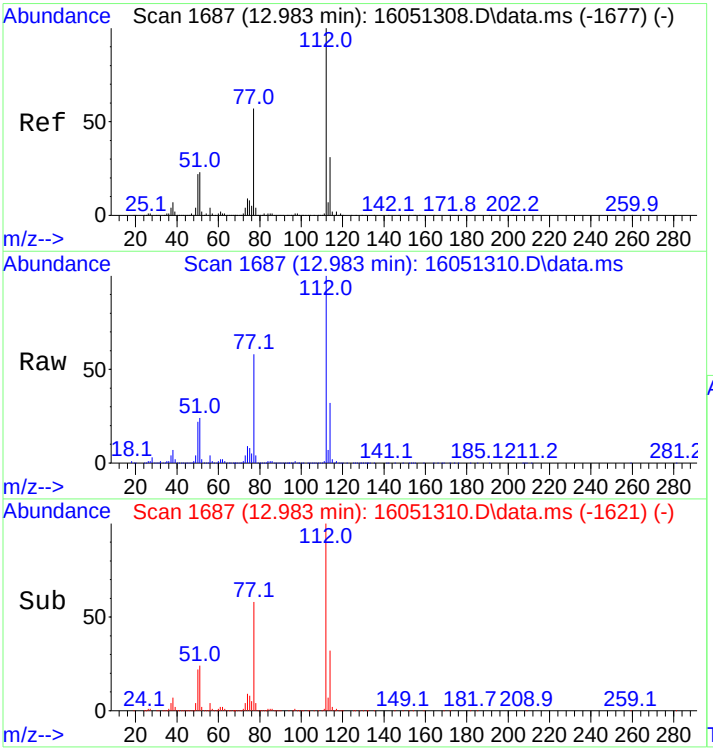


#38
Ethylene Dibromide
Concen: 476.87 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:107 Resp: 316021

Ion	Ratio	Lower	Upper
107	100		
109	93.7	74.3	111.5

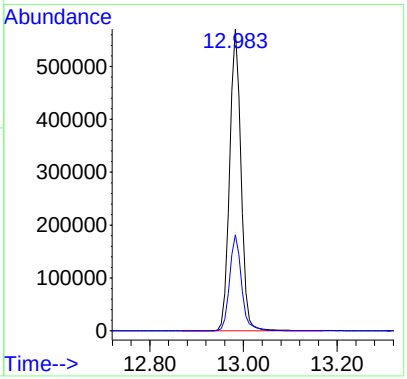


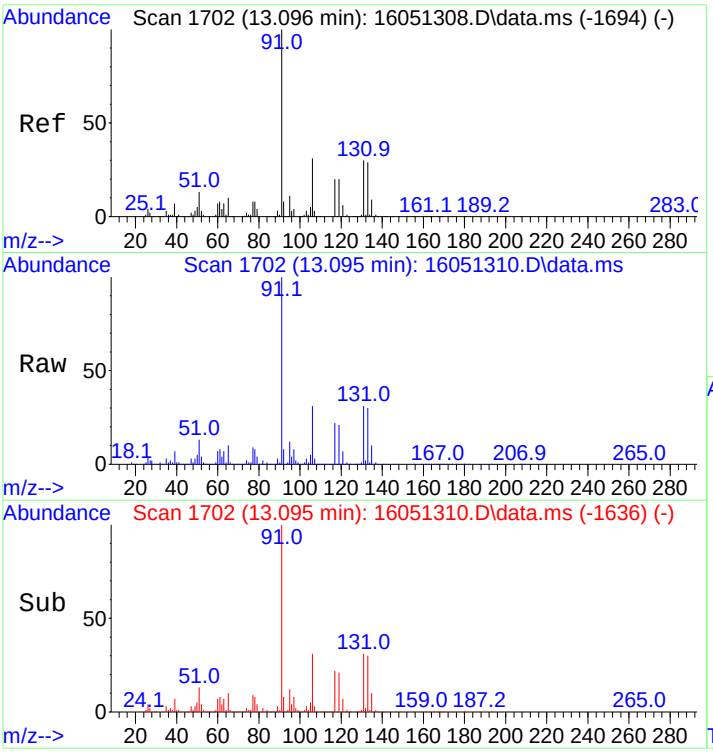


#39
Chlorobenzene
Concen: 506.68 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:112 Resp: 964308

Ion	Ratio	Lower	Upper
112	100		
114	33.2	27.5	41.3

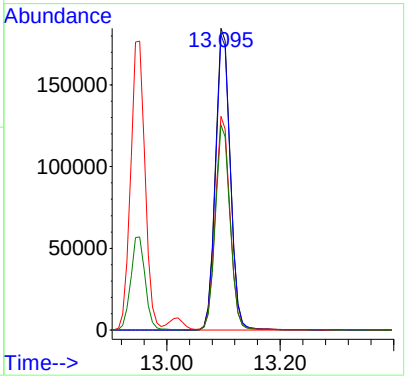


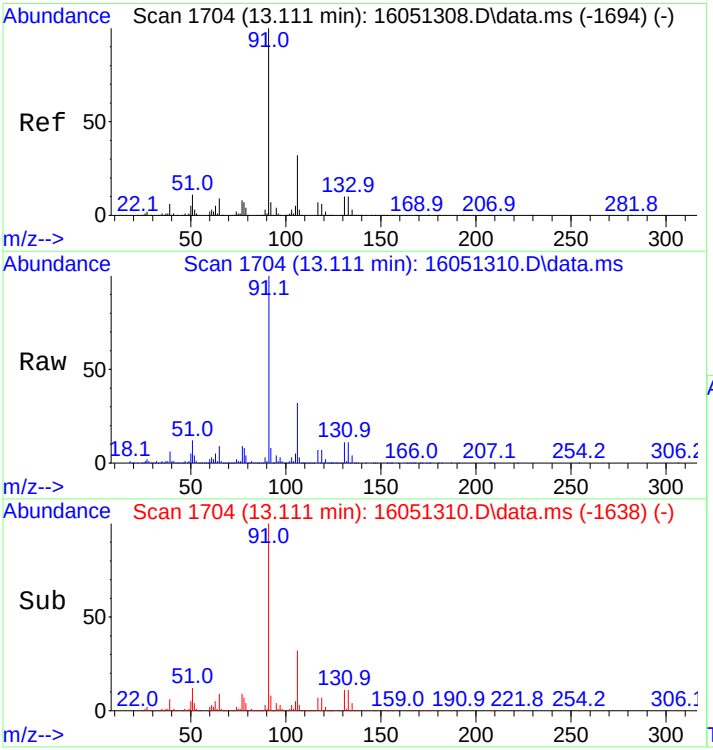


#40
1,1,1,2-Tetrachloroethane
Concen: 497.68 ng
RT: 13.095 min Scan# 1702
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:131 Resp: 336159

Ion	Ratio	Lower	Upper
131	100		
133	97.3	77.8	116.6
117	70.4	57.1	85.7
119	67.1	54.3	81.5

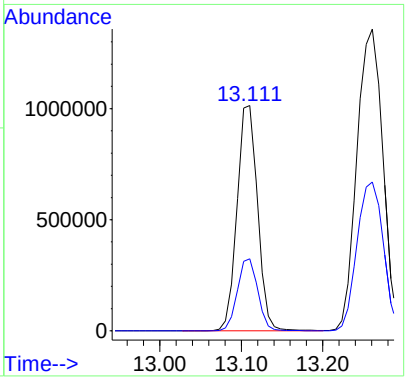


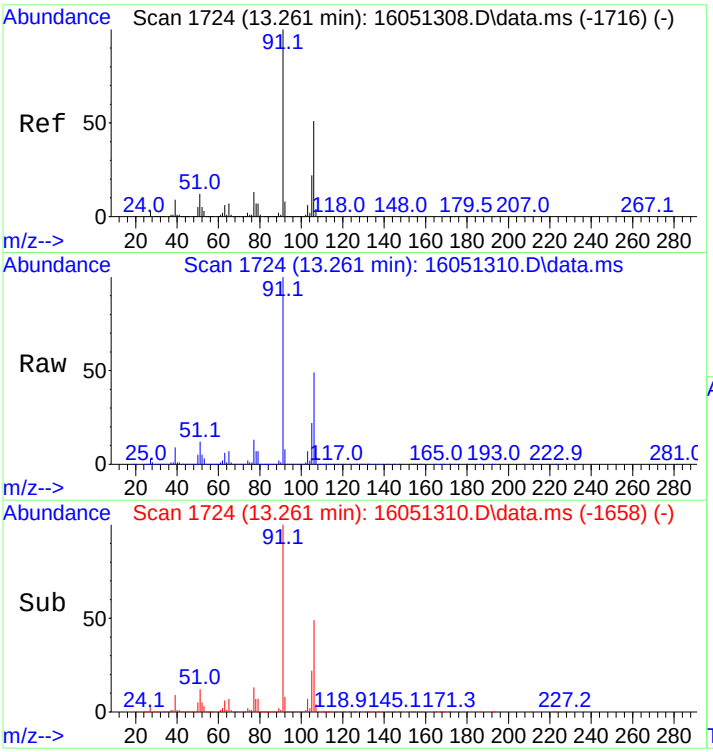


#41
Ethylbenzene
Concen: 503.70 ng
RT: 13.111 min Scan# 1704
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1772307

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.5	38.3

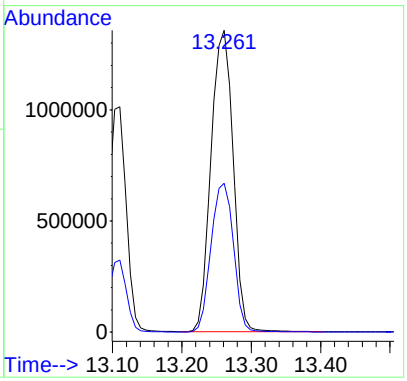


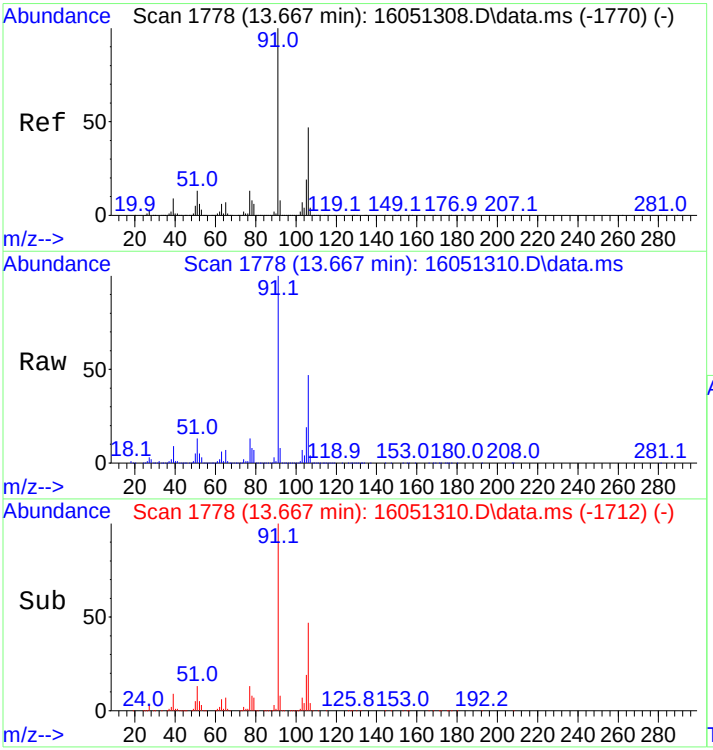


#42
M&P-Xylene
Concen: 1003.73 ng
RT: 13.261 min Scan# 1724
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 3003411

Ion	Ratio	Lower	Upper
91	100		
106	50.2	40.4	60.6

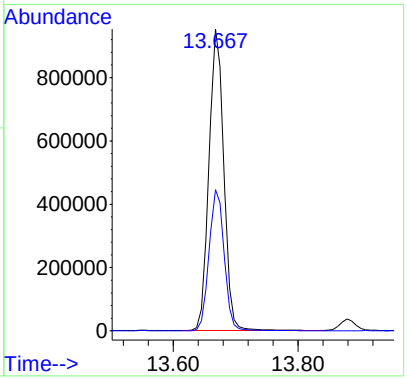


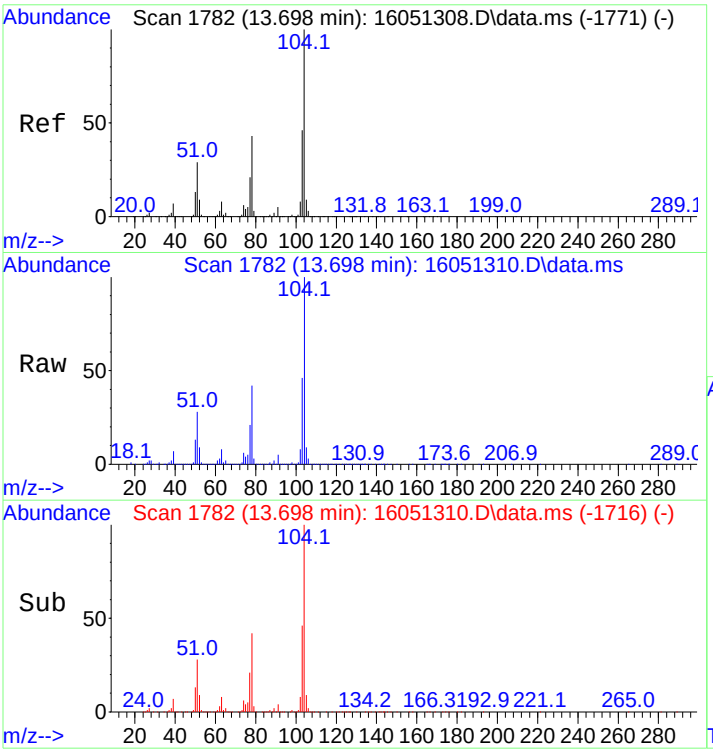


#43
O-Xylene
Concen: 507.36 ng
RT: 13.667 min Scan# 1778
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1573704

Ion	Ratio	Lower	Upper
91	100		
106	47.7	38.2	57.2

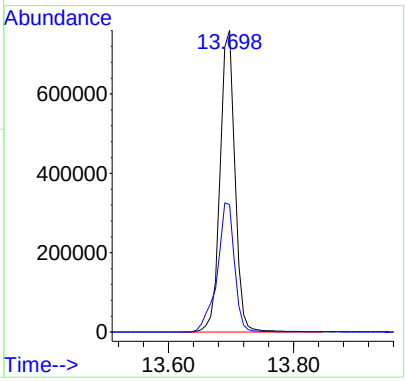


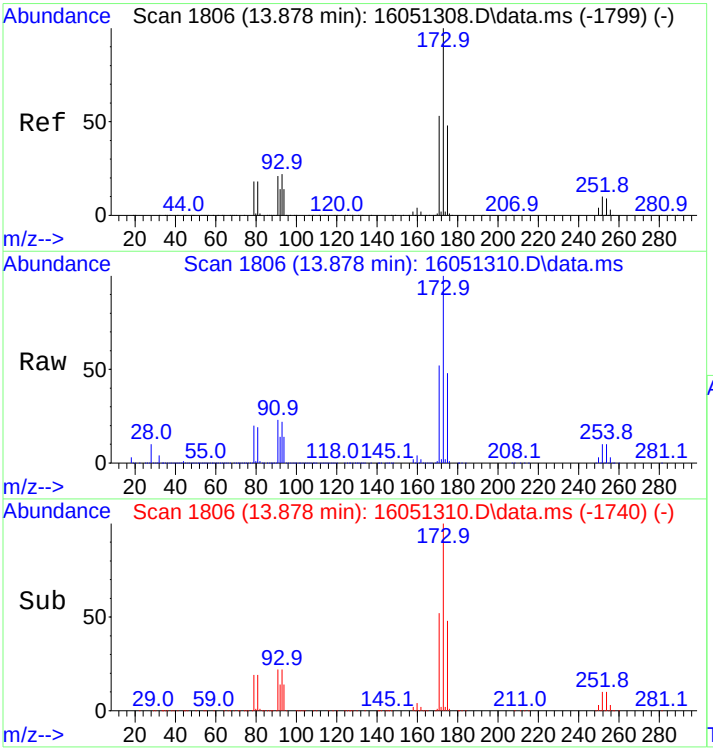


#44
Styrene
Concen: 478.01 ng
RT: 13.698 min Scan# 1782
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:104 Resp: 1265623

Ion	Ratio	Lower	Upper
104	100		
78	50.0	39.8	59.6

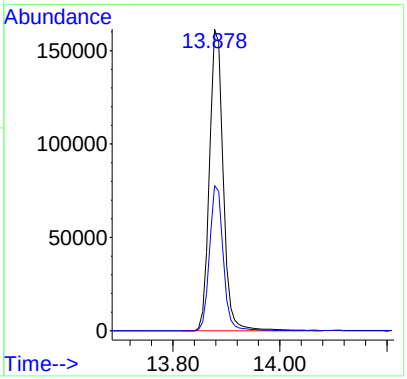


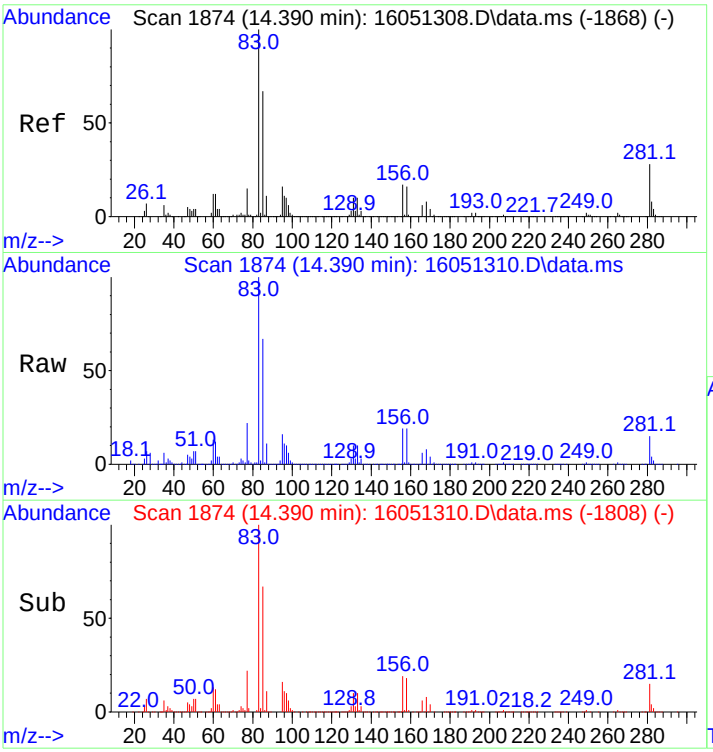


#45
Bromoform
Concen: 504.30 ng
RT: 13.878 min Scan# 1806
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:173 Resp: 288551

Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.5	57.7

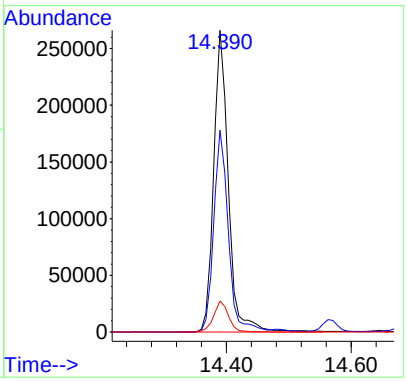


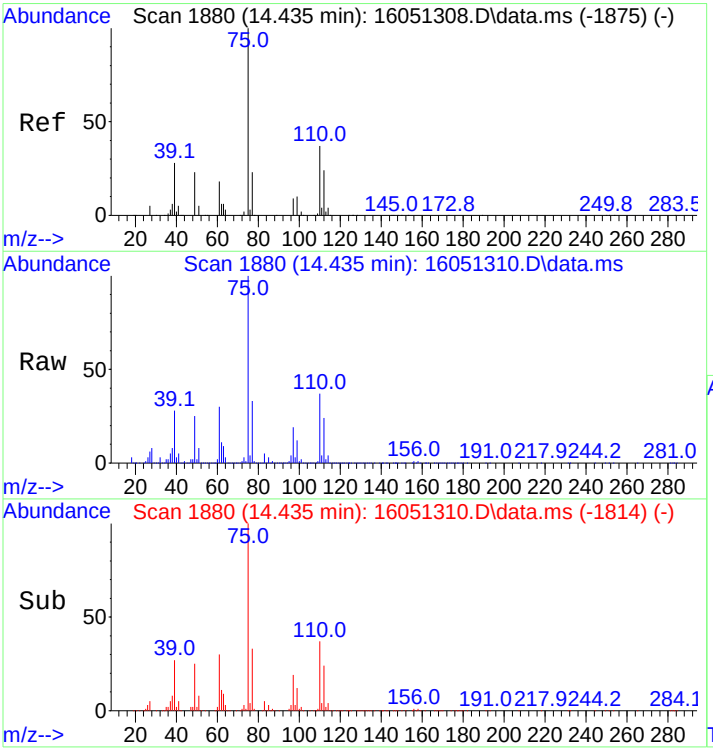


#46
1,1,2,2-Tetrachloroethane
Concen: 481.17 ng
RT: 14.390 min Scan# 1874
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 435103

Ion	Ratio	Lower	Upper
83	100		
85	66.1	53.1	79.7
131	10.6	8.9	13.3

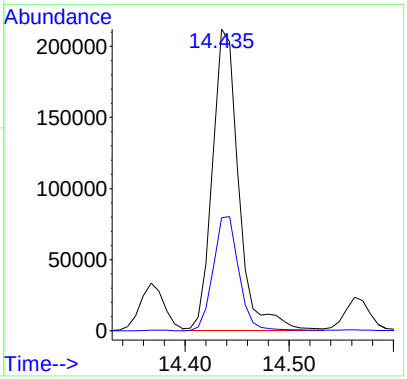


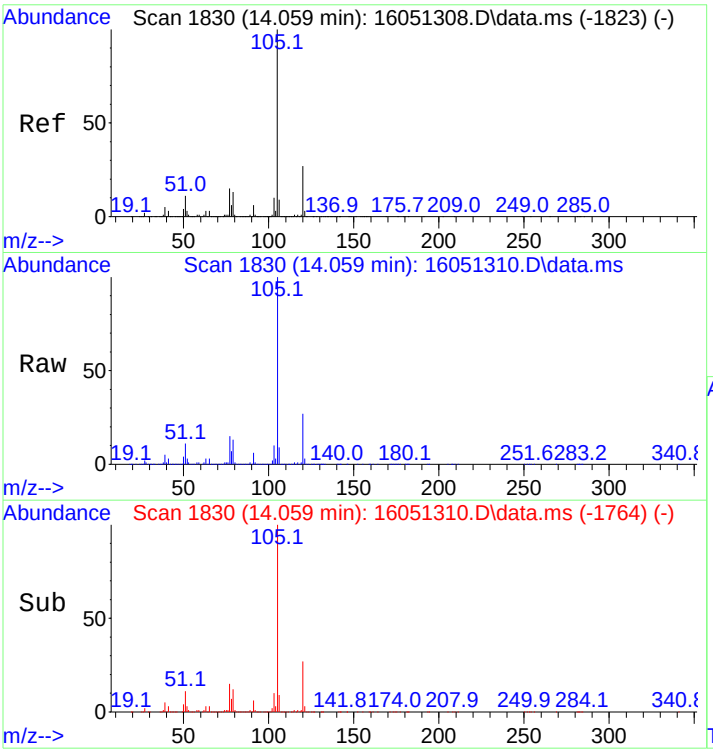


#47
1,2,3-Trichloropropane
Concen: 499.36 ng
RT: 14.435 min Scan# 1880
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 373014

Ion	Ratio	Lower	Upper
75	100		
110	37.0	30.5	45.7

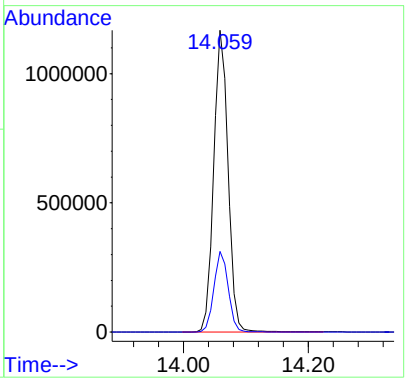


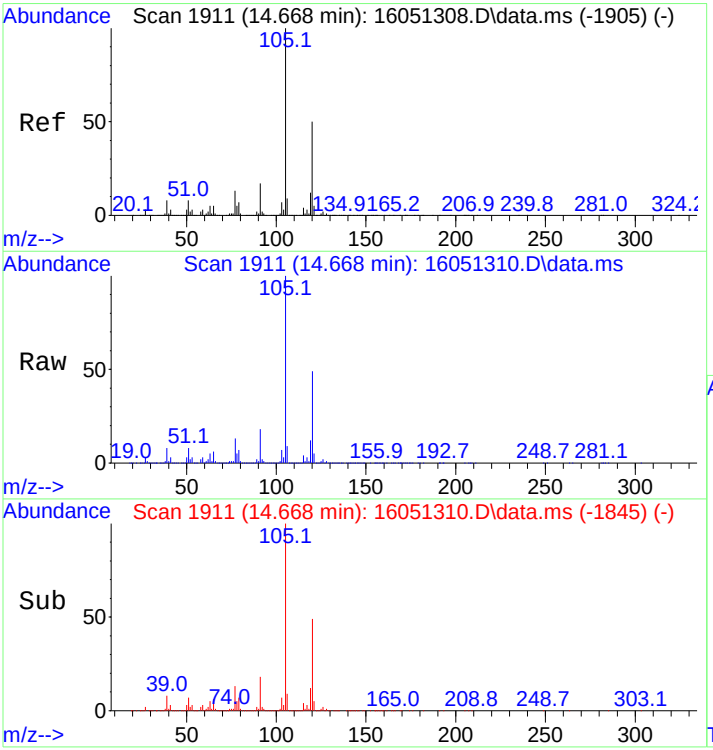


#51
Isopropylbenzene
Concen: 516.46 ng
RT: 14.059 min Scan# 1830
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 1861748

Ion	Ratio	Lower	Upper
105	100		
120	26.7	21.4	32.2

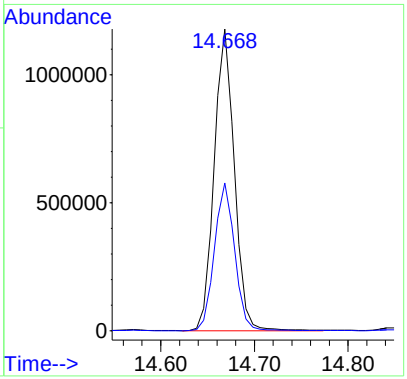


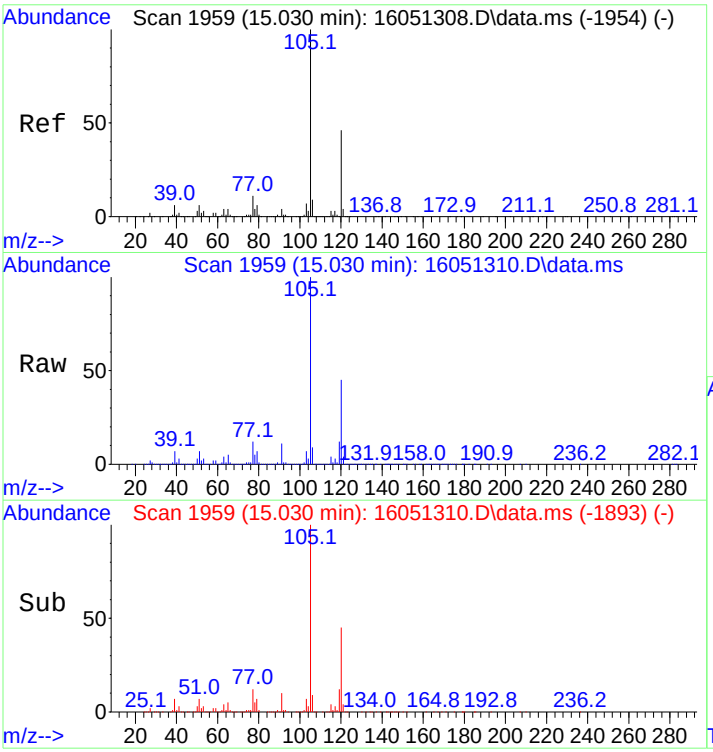


#52
1,3,5-Trimethylbenzene
Concen: 501.06 ng
RT: 14.668 min Scan# 1911
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 1760344

Ion	Ratio	Lower	Upper
105	100		
120	49.2	39.9	59.9

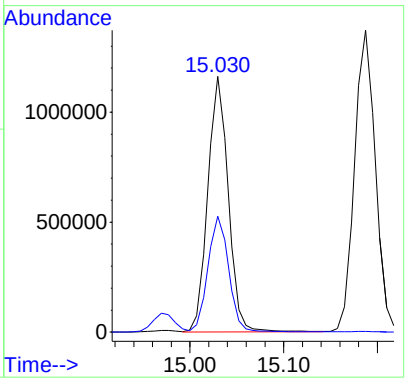


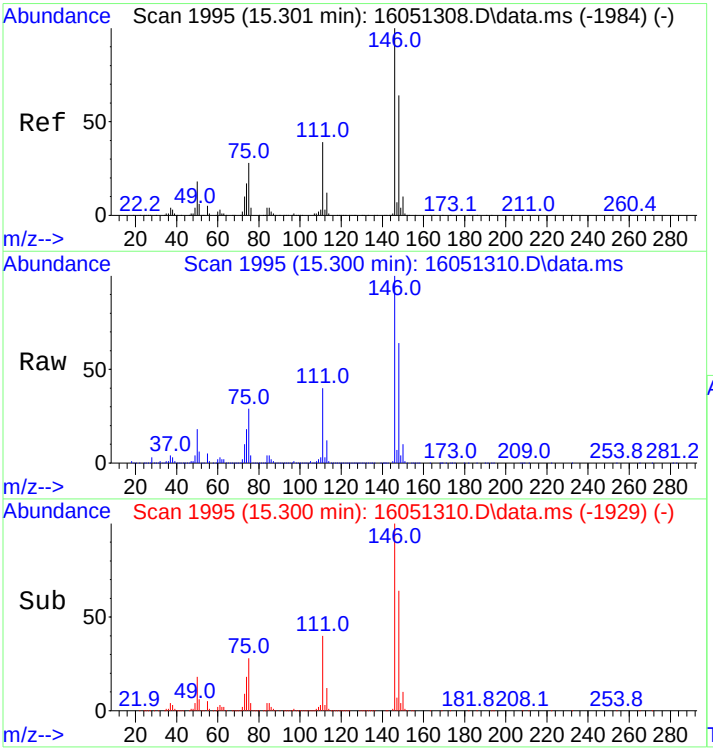


#53
1,2,4-Trimethylbenzene
Concen: 508.97 ng
RT: 15.030 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 1765566

Ion	Ratio	Lower	Upper
105	100		
120	46.1	37.5	56.3

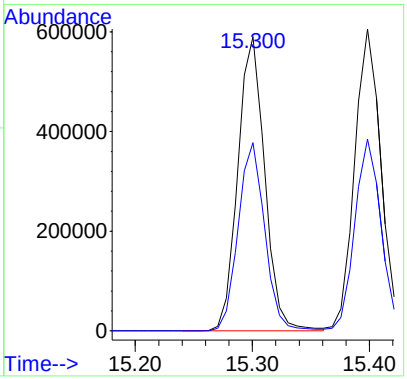


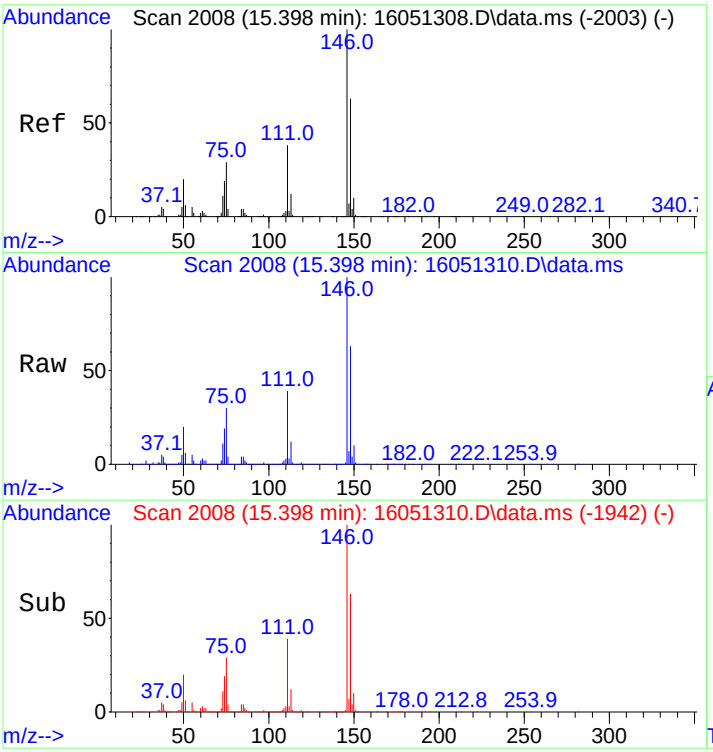


#54
1,3-Dichlorobenzene
Concen: 520.18 ng
RT: 15.300 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:146 Resp: 941721

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	76.0

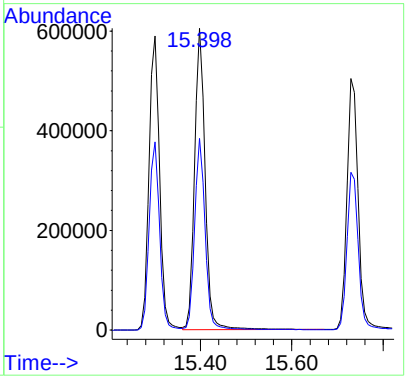


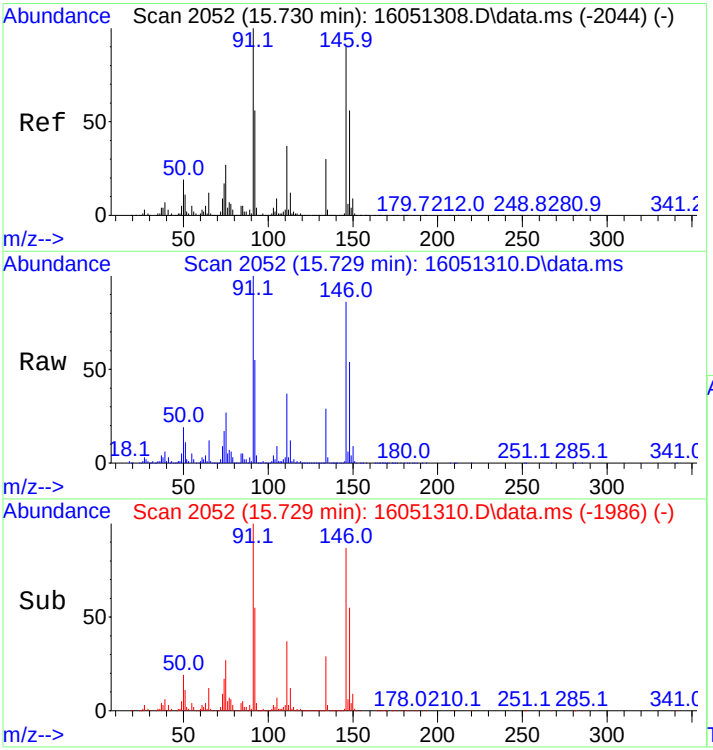


#55
1,4-Dichlorobenzene
Concen: 511.26 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:146 Resp: 978341

Ion	Ratio	Lower	Upper
146	100		
148	62.6	49.9	74.9

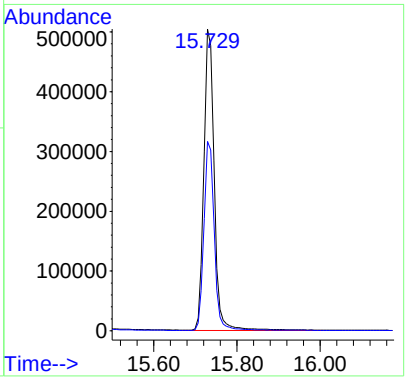


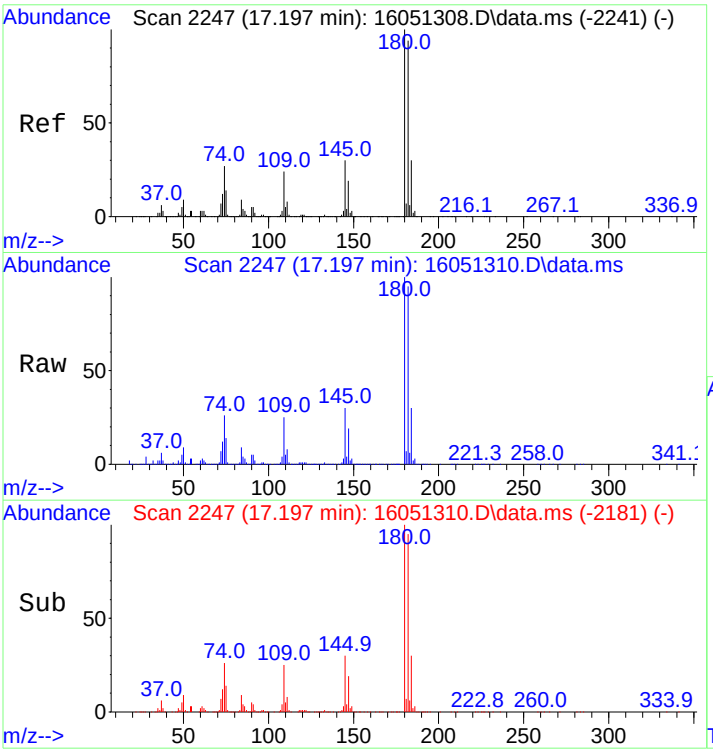


#56
1,2-Dichlorobenzene
Concen: 508.61 ng
RT: 15.729 min Scan# 2052
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:146 Resp: 870903

Ion	Ratio	Lower	Upper
146	100		
148	62.6	49.9	74.9

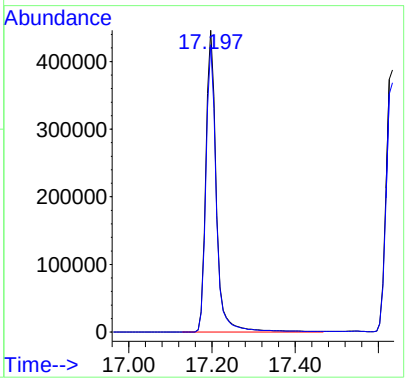


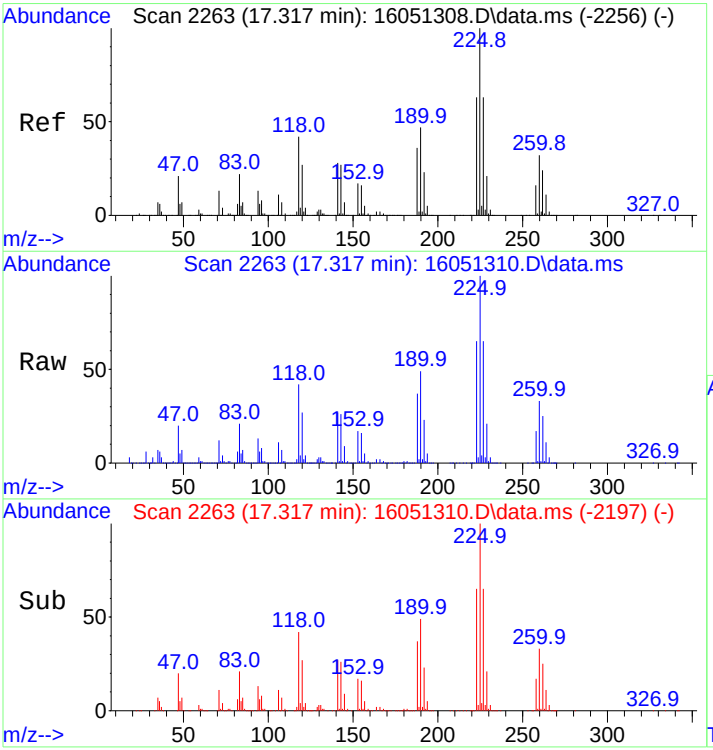


#57
1,2,4-Trichlorobenzene
Concen: 536.57 ng
RT: 17.197 min Scan# 2247
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:180 Resp: 779260

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.0	112.4

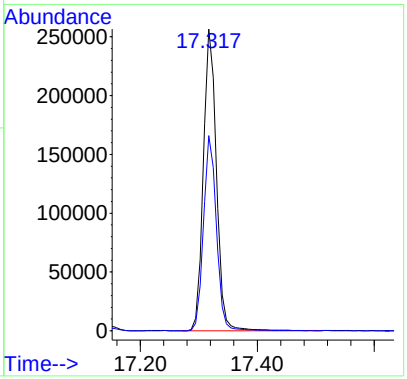


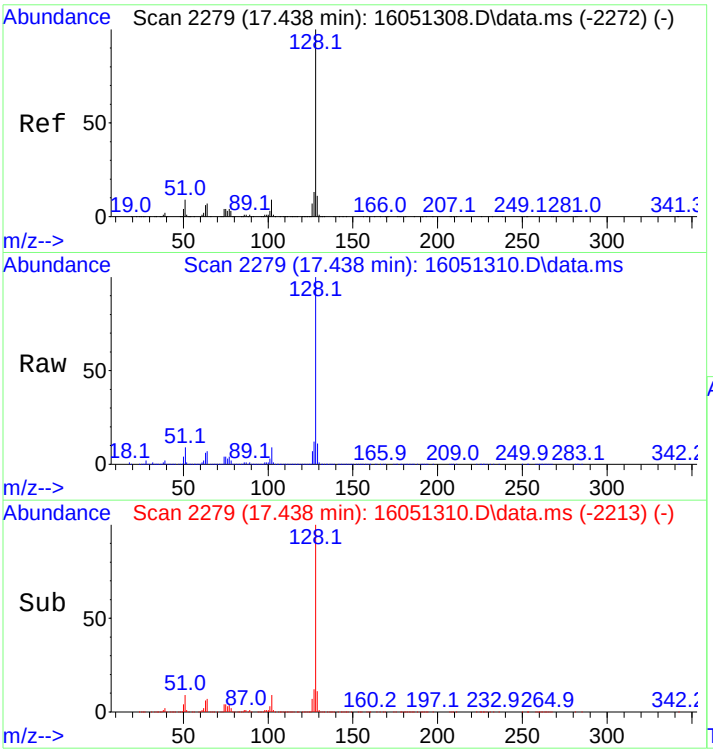


#58
Hexachlorobutadiene
Concen: 522.88 ng
RT: 17.317 min Scan# 2263
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:225 Resp: 399154

Ion	Ratio	Lower	Upper
225	100		
227	64.1	51.1	76.7

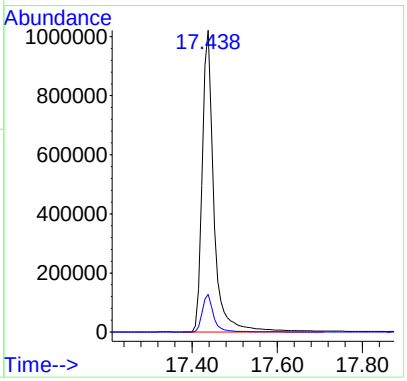


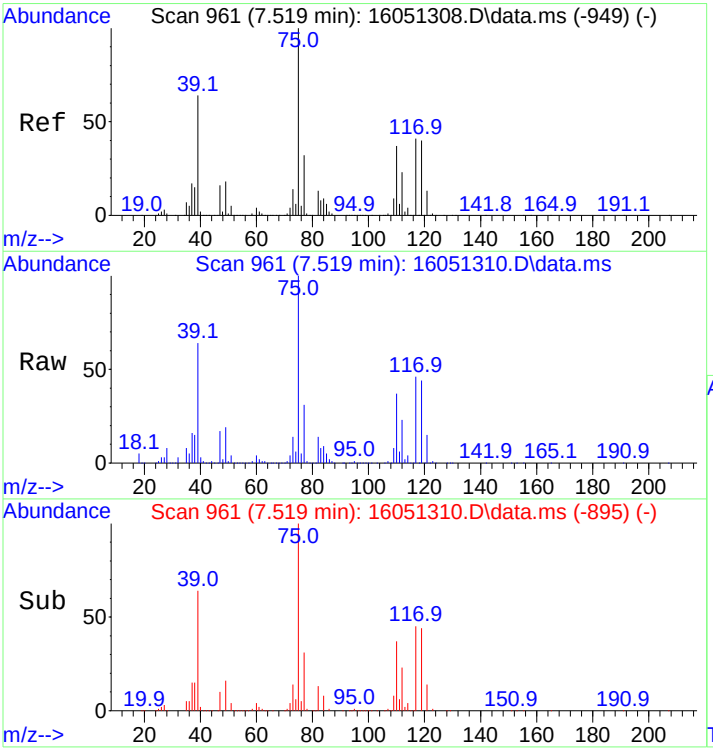


#59
Naphthalene
Concen: 550.48 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:128 Resp: 1962306

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

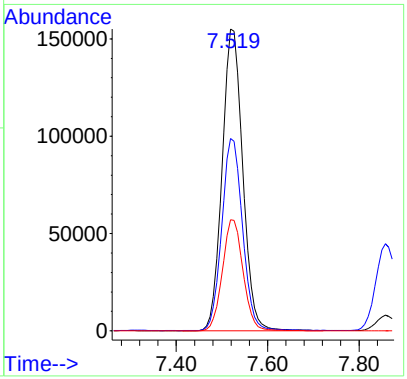


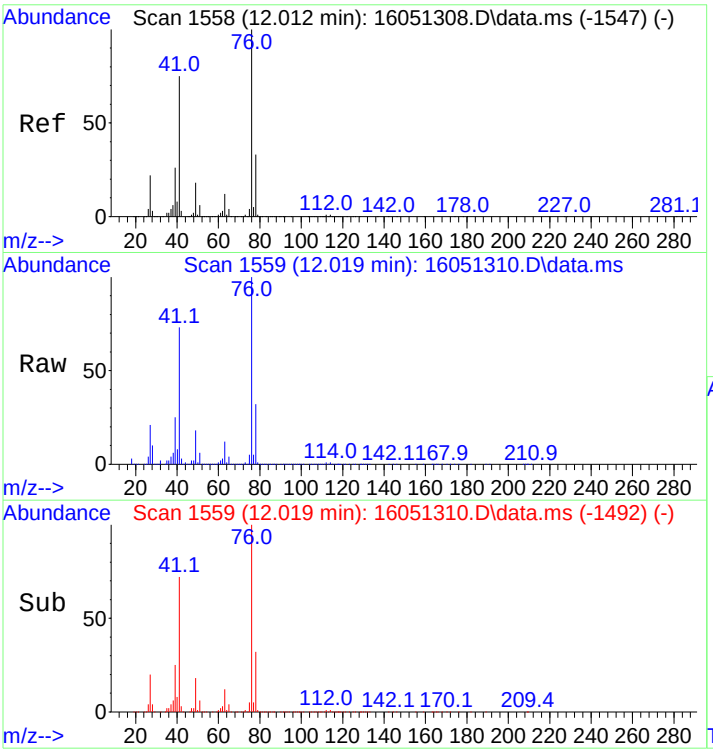


#60
1,1-Dichloropropene
Concen: 490.15 ng
RT: 7.519 min Scan# 961
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 486444

Ion	Ratio	Lower	Upper
75	100		
39	64.1	51.8	77.6
110	36.9	29.3	43.9

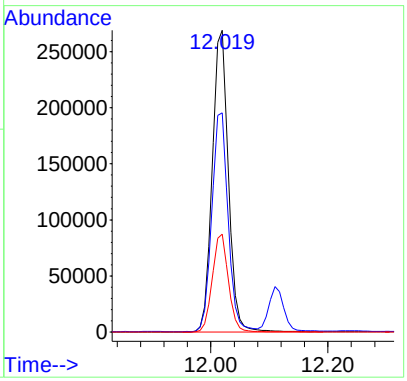


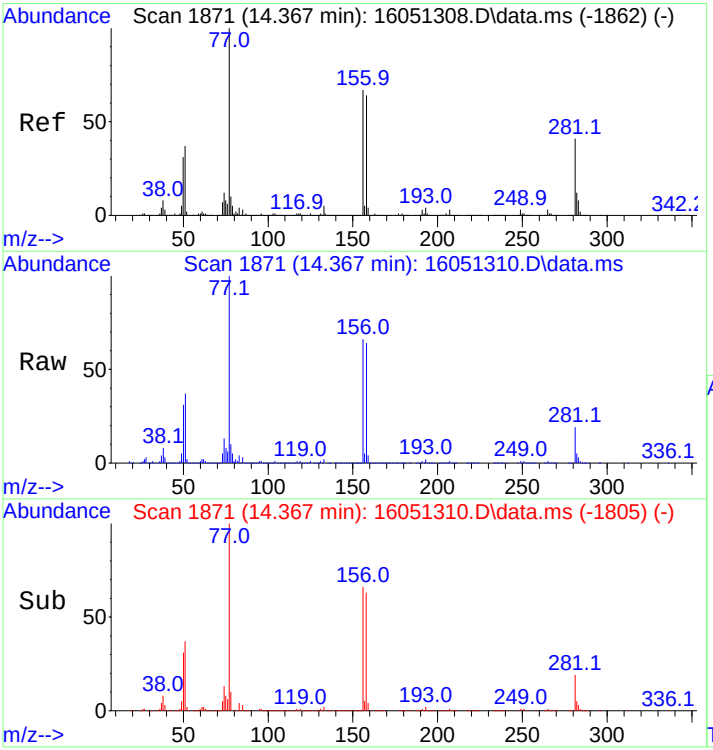


#61
1,3-Dichloropropane
Concen: 466.75 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 76 Resp: 516643

Ion	Ratio	Lower	Upper
76	100		
41	73.0	58.2	87.4
78	32.6	26.1	39.1

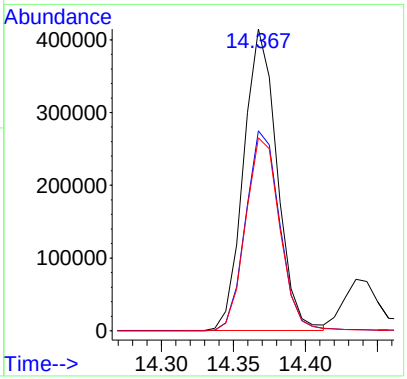


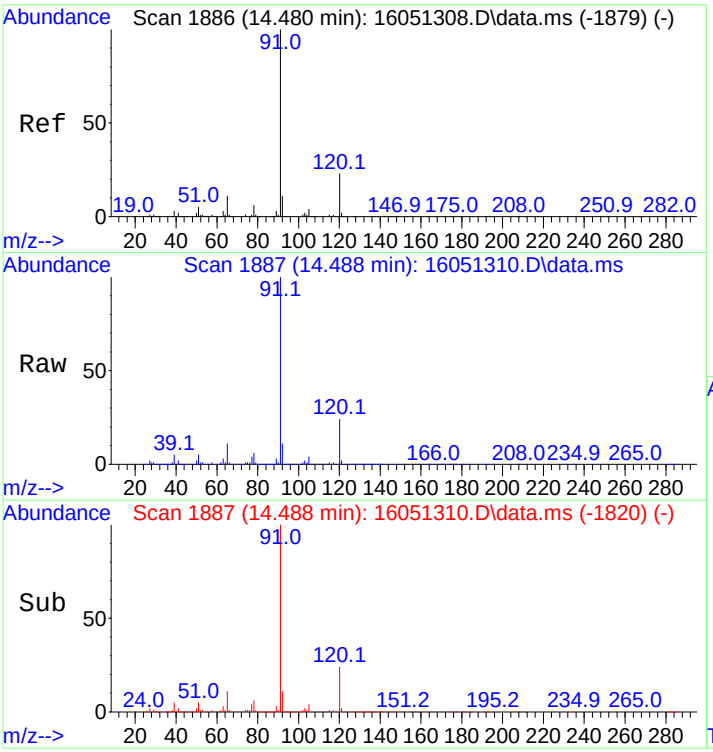


#62
Bromobenzene
Concen: 519.92 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 77 Resp: 667003

Ion	Ratio	Lower	Upper
77	100		
156	68.4	55.0	82.4
158	66.5	53.3	79.9

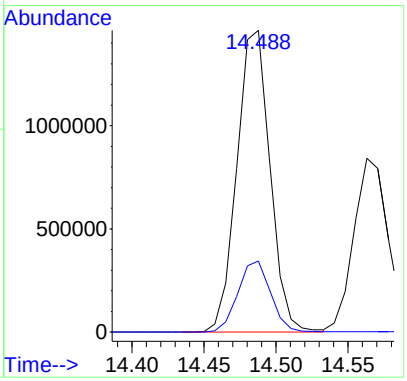


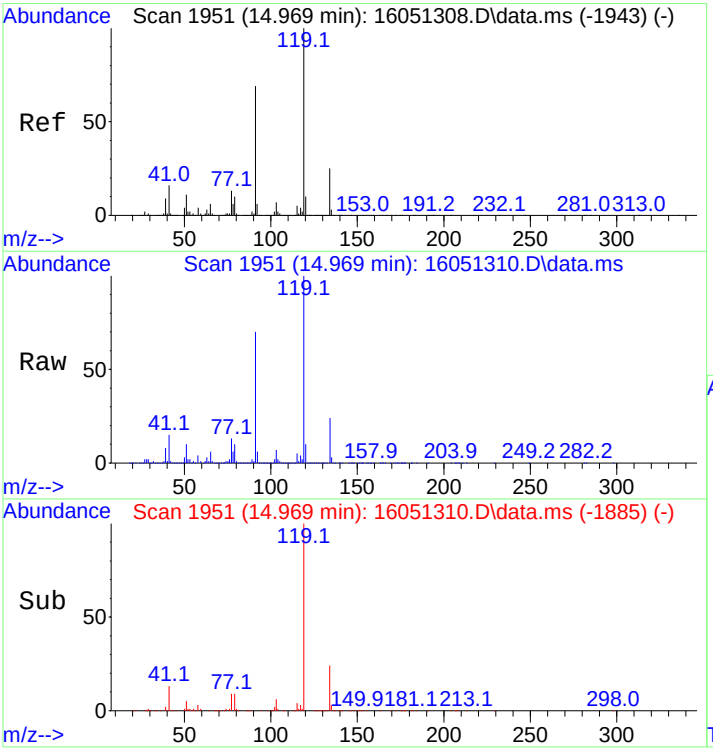


#63
n-Propylbenzene
Concen: 511.41 ng
RT: 14.488 min Scan# 1887
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 2333076

Ion	Ratio	Lower	Upper
91	100		
120	23.3	18.6	28.0

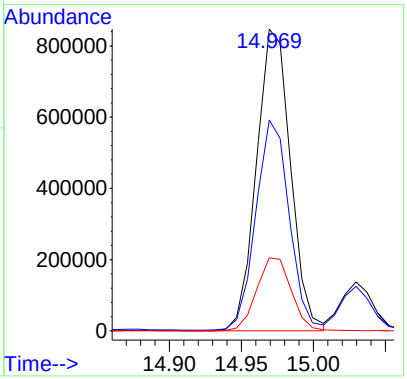


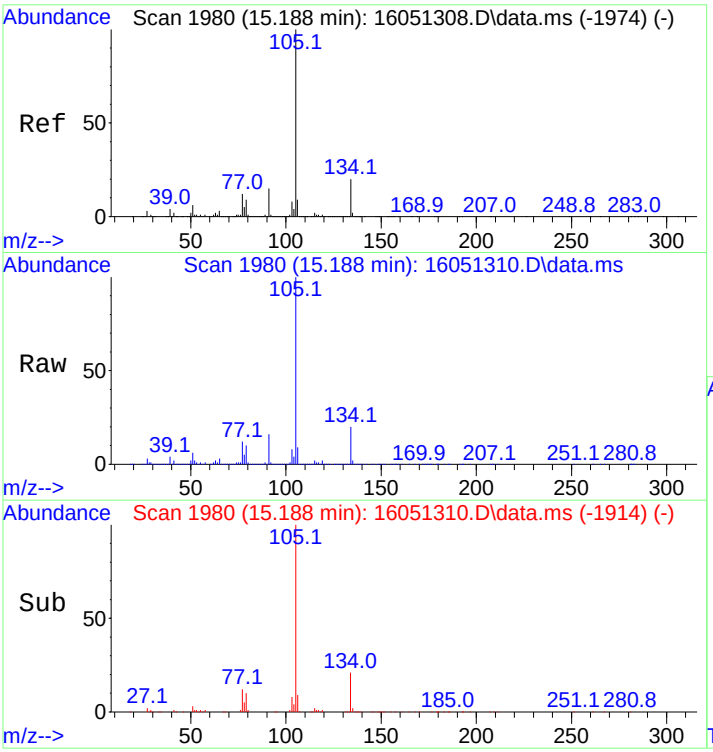


#64
tert-Butylbenzene
Concen: 508.20 ng
RT: 14.969 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:119 Resp: 1387882

Ion	Ratio	Lower	Upper
119	100		
91	68.1	54.0	81.0
134	24.8	19.9	29.9

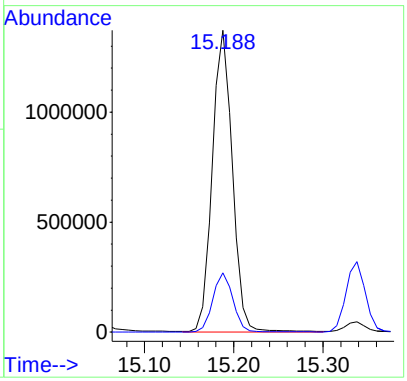


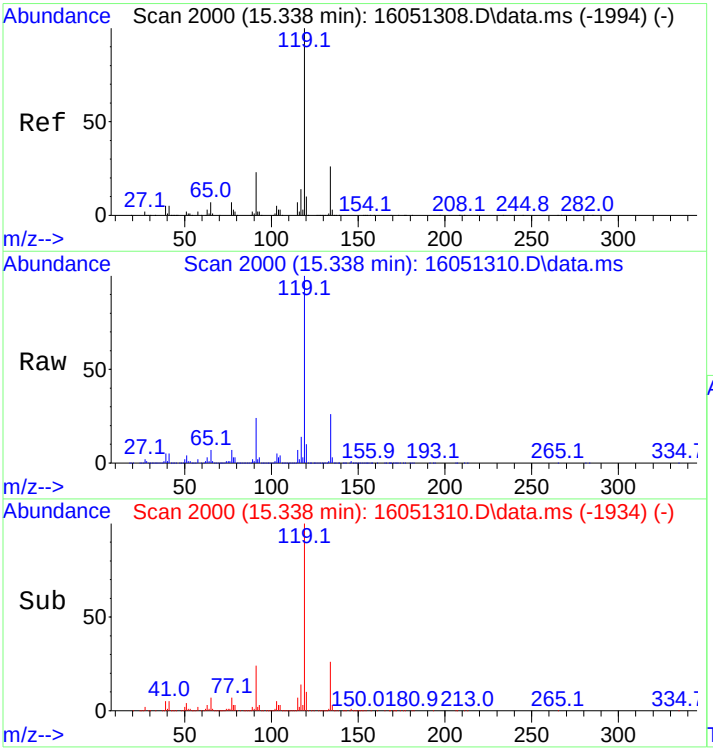


#65
sec-Butylbenzene
Concen: 508.97 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 2141959

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5

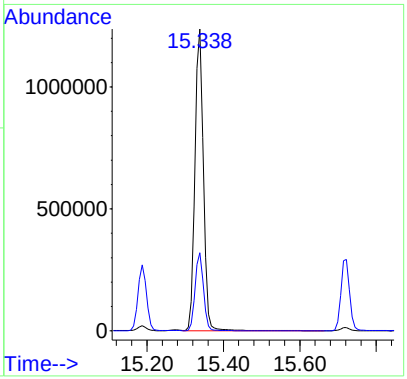


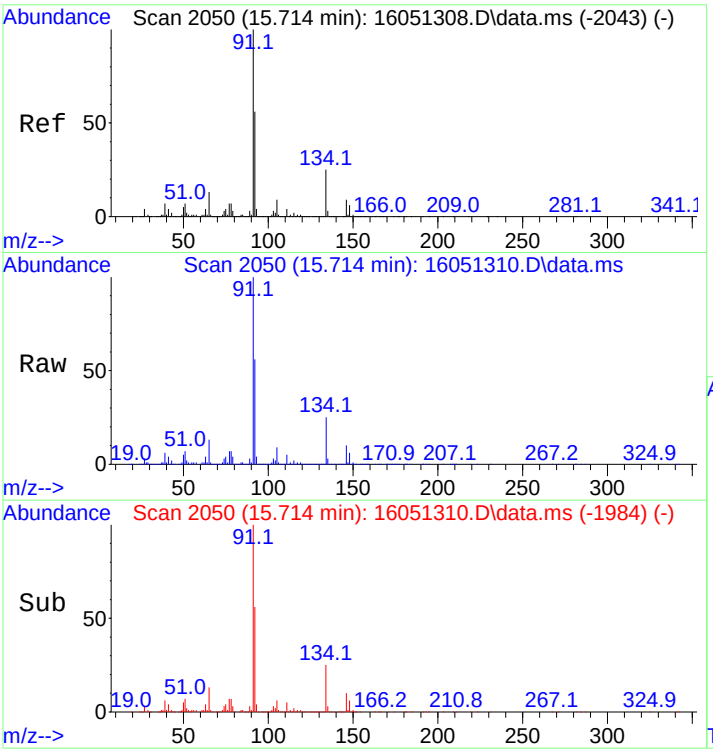


#66
p-Isopropyltoluene
Concen: 513.22 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:119 Resp: 1904120

Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.6	31.0

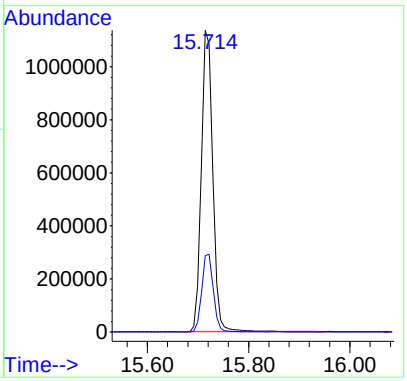


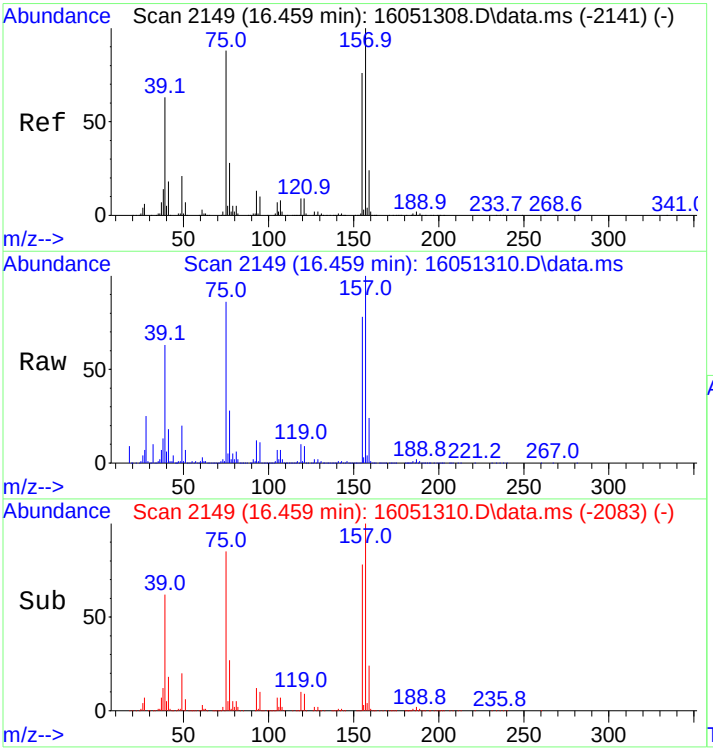


#67
n-Butylbenzene
Concen: 496.91 ng
RT: 15.714 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1782319

Ion	Ratio	Lower	Upper
91	100		
134	26.0	21.0	31.6

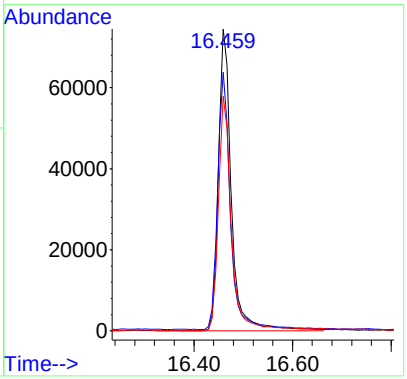




#68
1,2-Dibromo-3-chloropropane
Concen: 605.43 ng
RT: 16.459 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:157 Resp: 136359

Ion	Ratio	Lower	Upper
157	100		
75	85.4	68.6	103.0
155	78.0	62.2	93.2



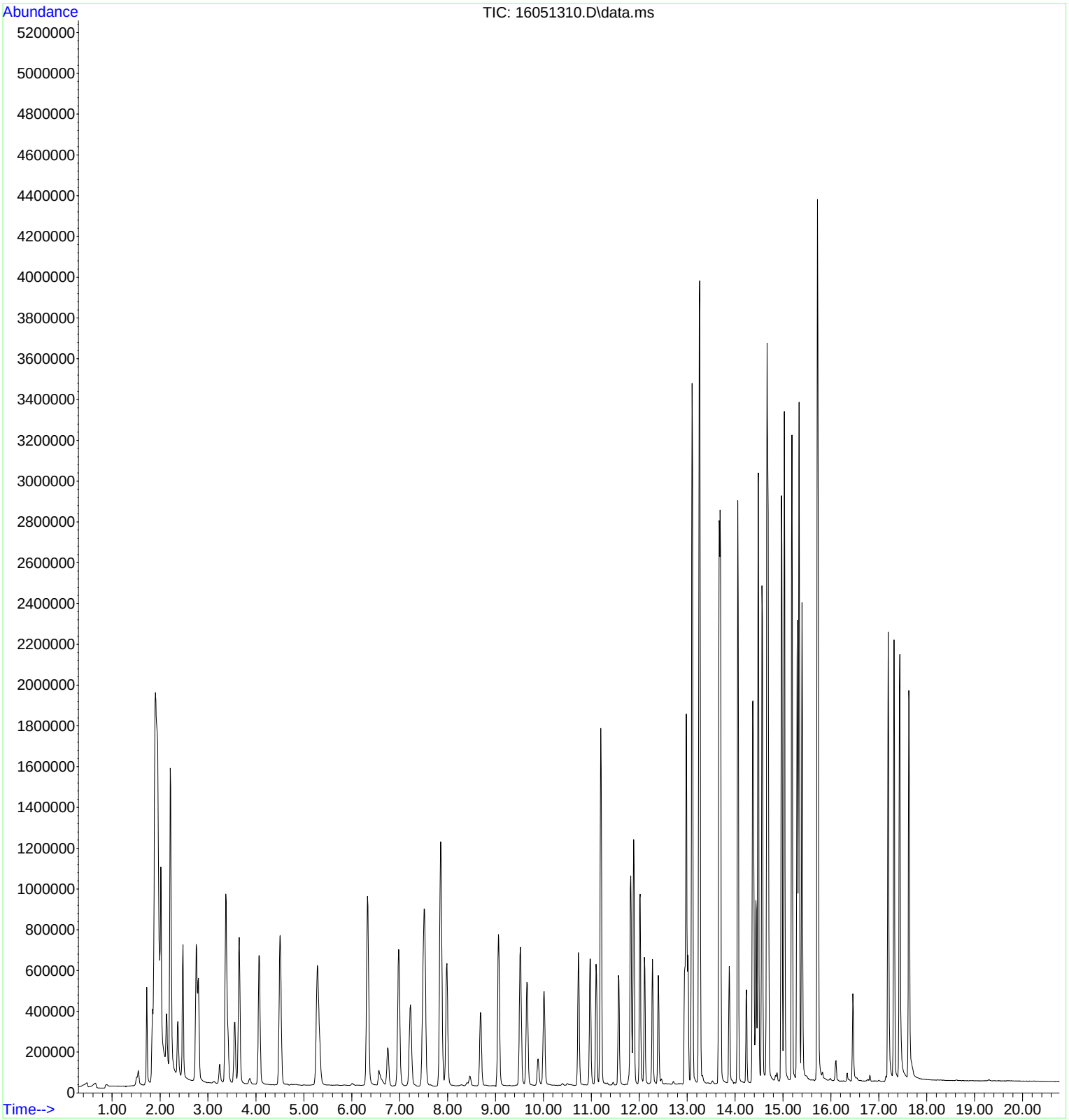
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

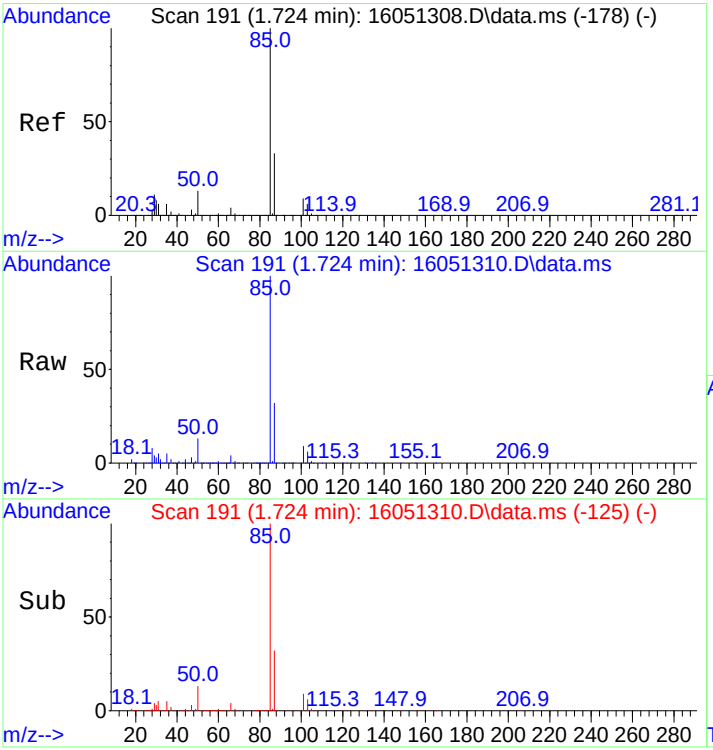
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051310.D
Acq On : 13 May 2016 4:35 pm
Operator : SG Instrument MSD-3
Sample : 500NG-VOSTSTD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 14:47:32 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:46:18 2016
Response via : Initial Calibration

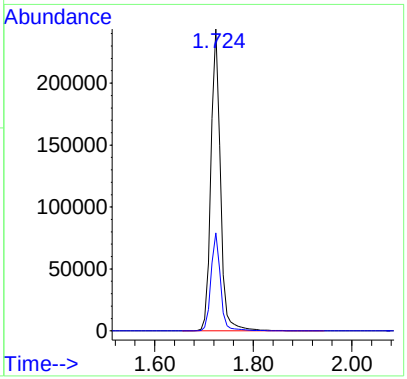


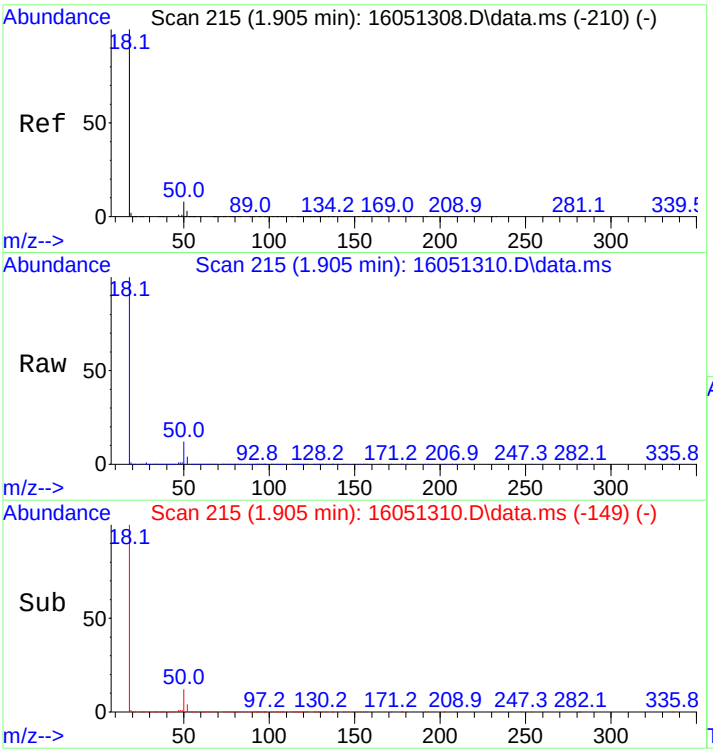


#2
Dichlorodifluoromethane
Concen: 502.38 ng
RT: 1.724 min Scan# 191
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 85 Resp: 324450

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.0	39.0

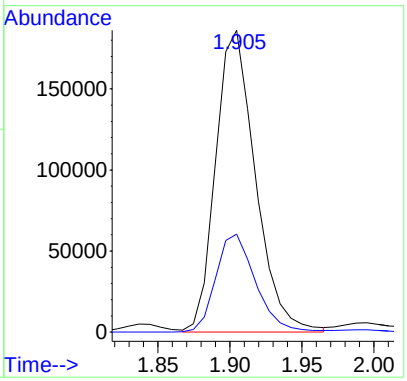


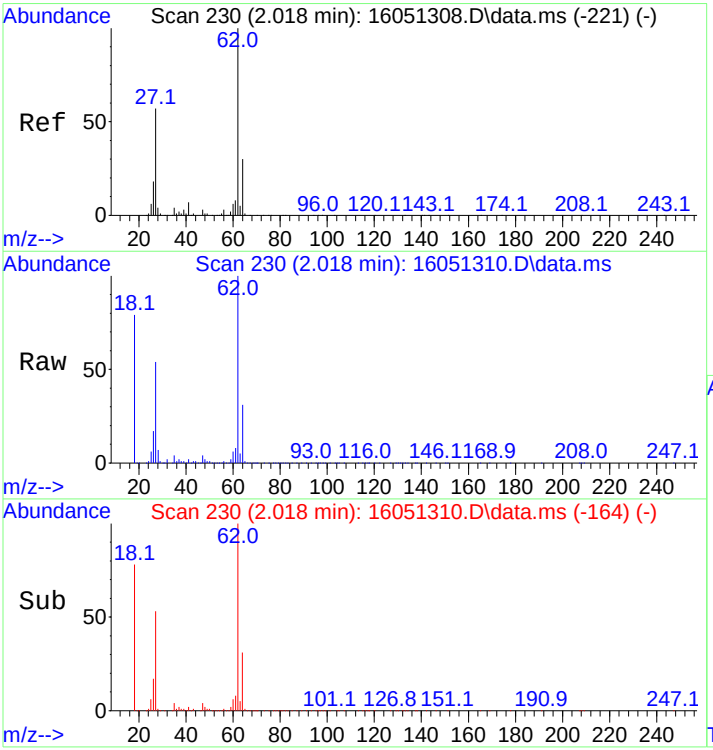


#3
Chloromethane
Concen: 465.68 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 50 Resp: 356672

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.0	39.0

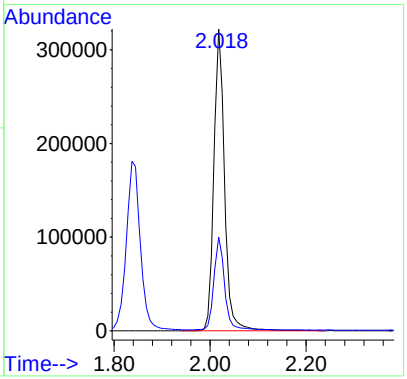


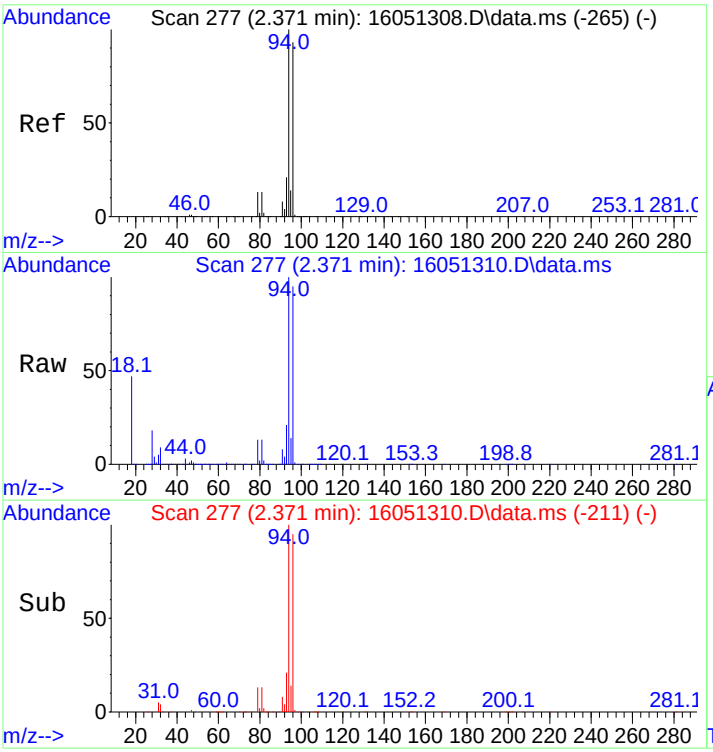


#4
Vinyl Chloride
Concen: 539.14 ng
RT: 2.018 min Scan# 230
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 62 Resp: 496291

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.7	38.5

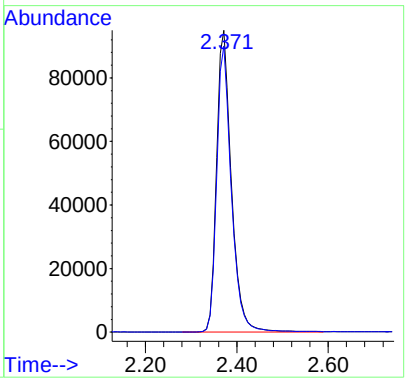


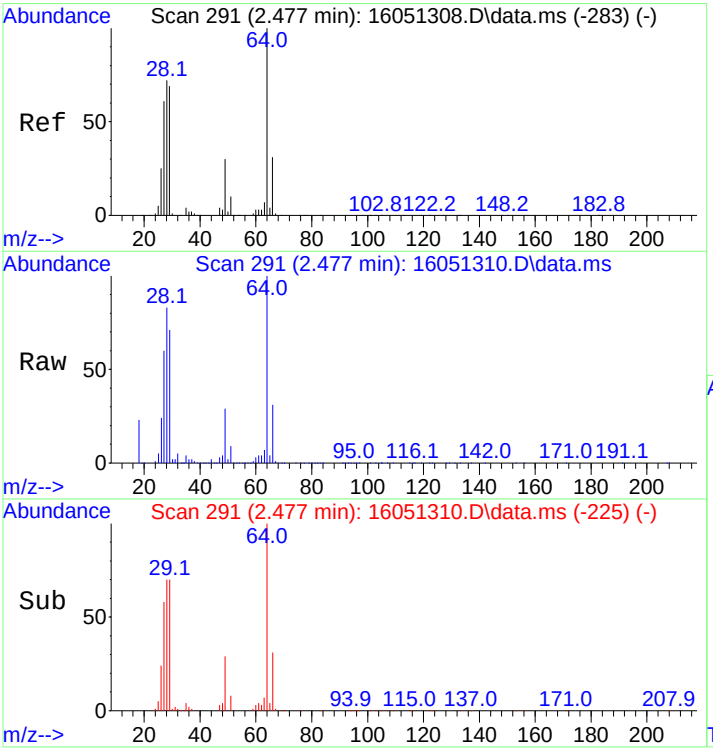


#5
Bromomethane
Concen: 522.30 ng
RT: 2.371 min Scan# 277
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 94 Resp: 213686

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.5	111.7

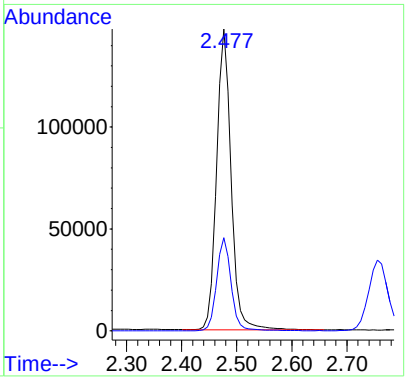


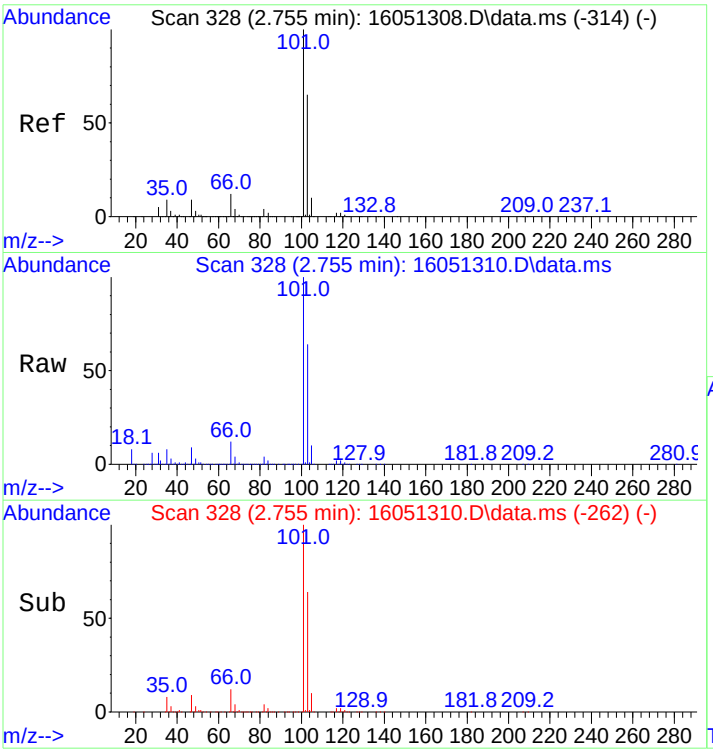


#6
Chloroethane
Concen: 562.45 ng
RT: 2.477 min Scan# 291
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 64 Resp: 269575

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4

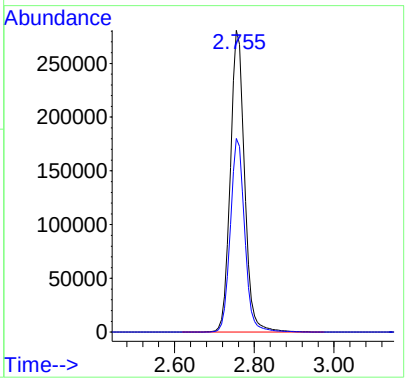


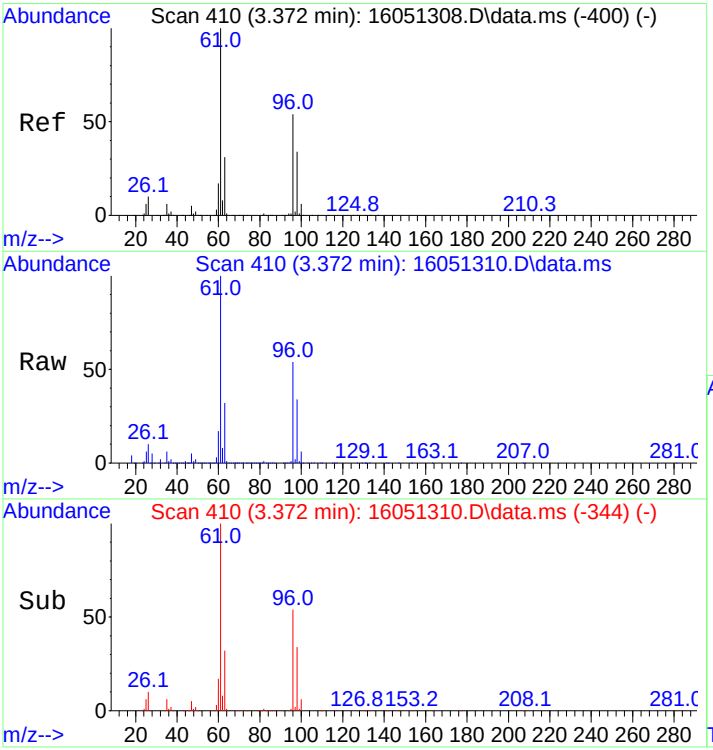


#7
Trichlorofluoromethane
Concen: 504.87 ng
RT: 2.755 min Scan# 328
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:101 Resp: 693224

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.8	77.6

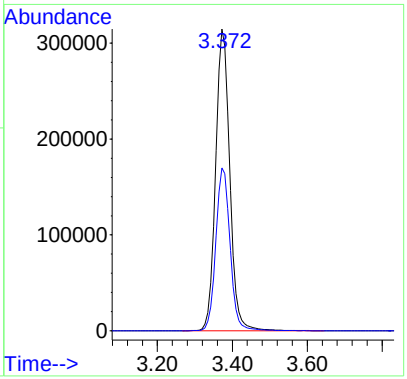


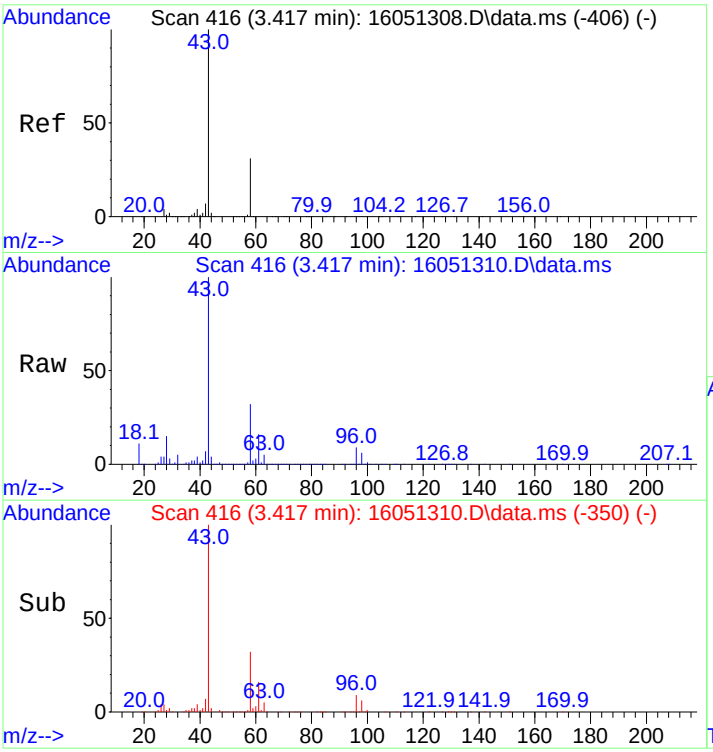


#8
1,1-Dichloroethene
Concen: 495.14 ng
RT: 3.372 min Scan# 410
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 61 Resp: 819410

Ion	Ratio	Lower	Upper
61	100		
96	54.4	44.1	66.1

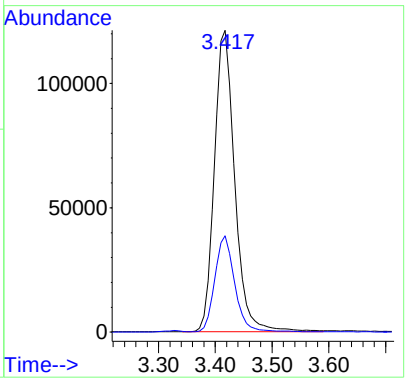


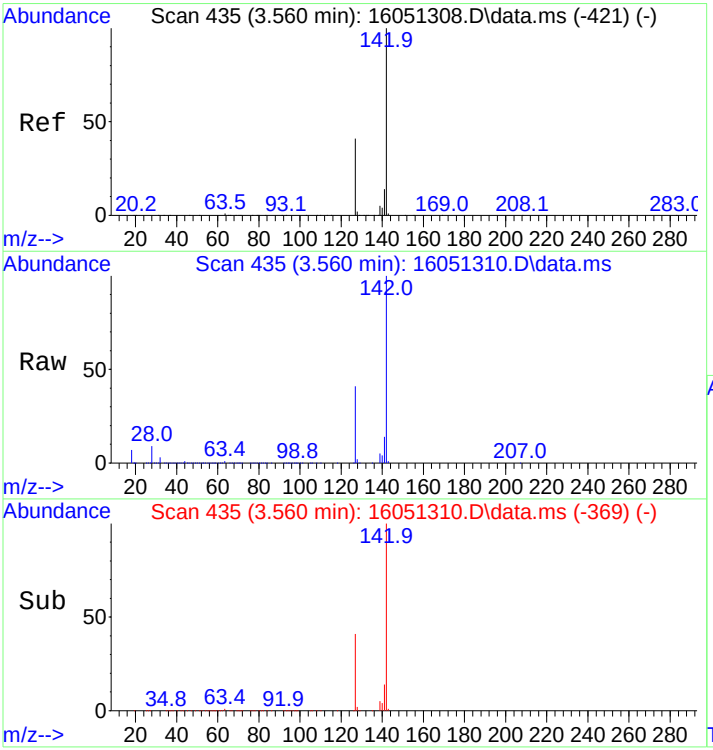


#9
Acetone
Concen: 493.11 ng
RT: 3.417 min Scan# 416
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 303718

Ion	Ratio	Lower	Upper
43	100		
58	31.3	24.7	37.1

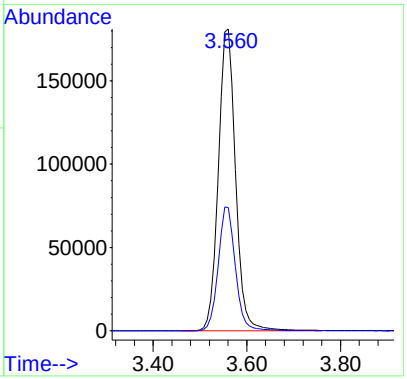


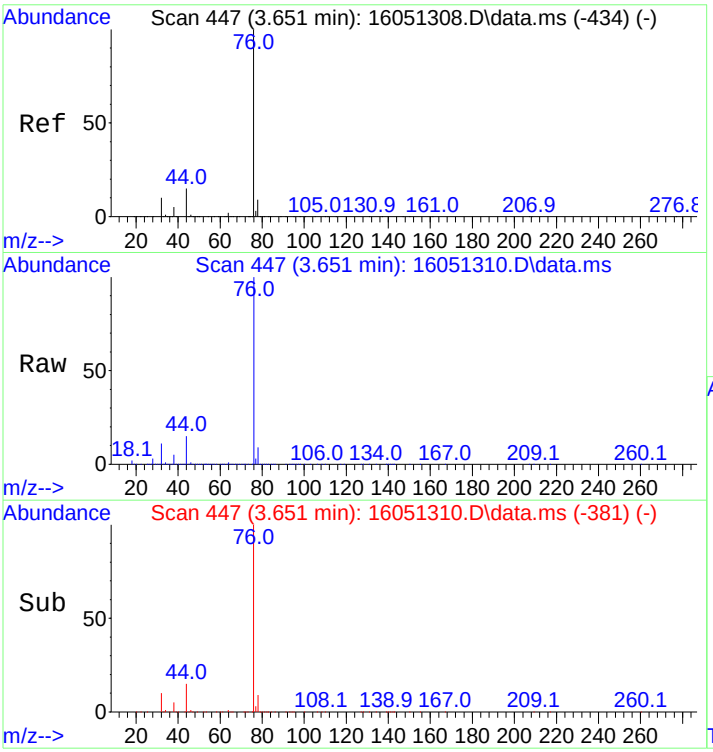


#10
Iodomethane
Concen: 705.04 ng
RT: 3.560 min Scan# 435
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:142 Resp: 462784

Ion	Ratio	Lower	Upper
142	100		
127	40.9	32.8	49.2

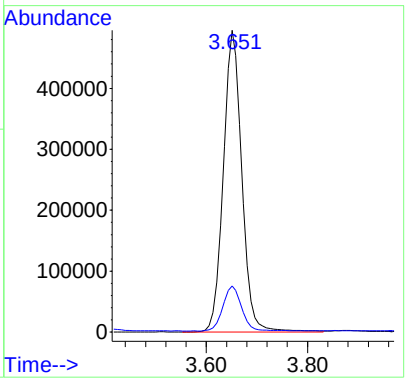


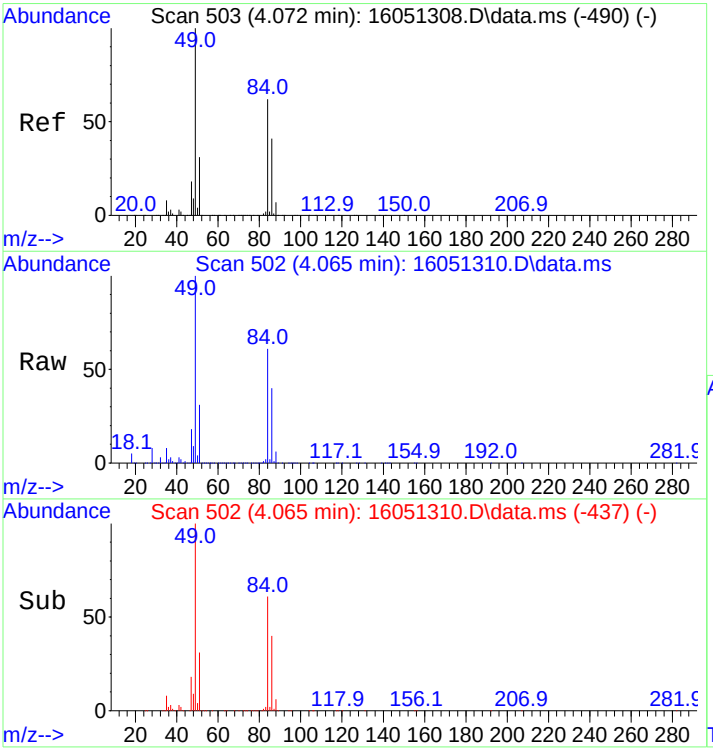


#11
Carbon disulfide
Concen: 486.92 ng
RT: 3.651 min Scan# 447
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 76 Resp: 1261426

Ion	Ratio	Lower	Upper
76	100		
44	15.0	12.2	18.4

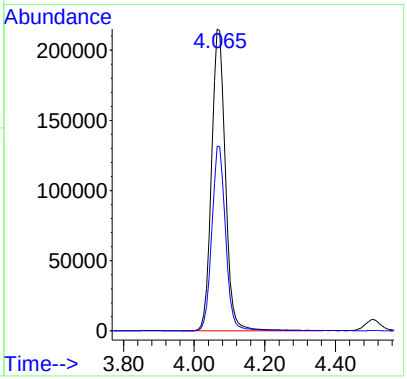


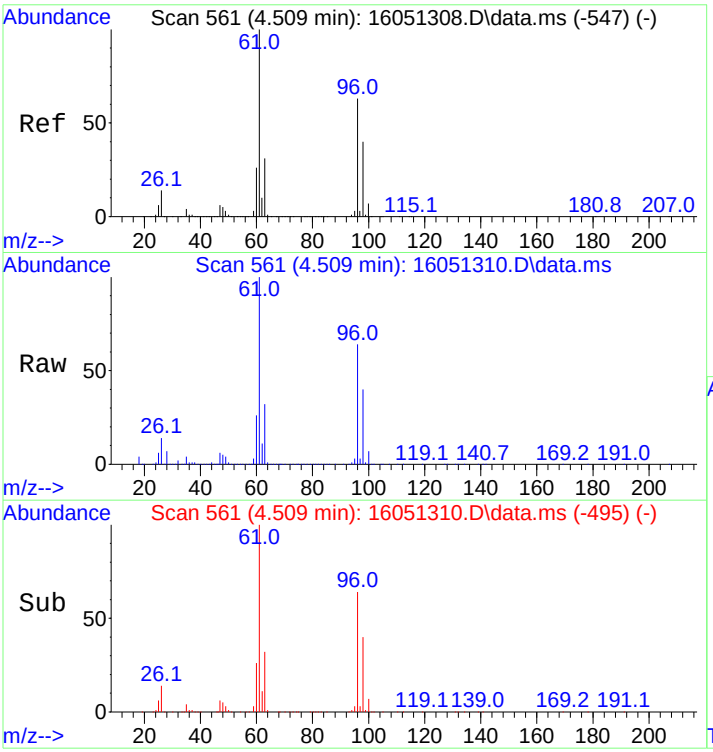


#12
Methylene Chloride
Concen: 513.48 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.008 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 49 Resp: 588065

Ion	Ratio	Lower	Upper
49	100		
84	60.8	48.4	72.6

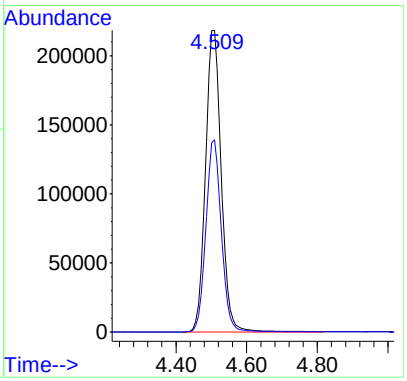


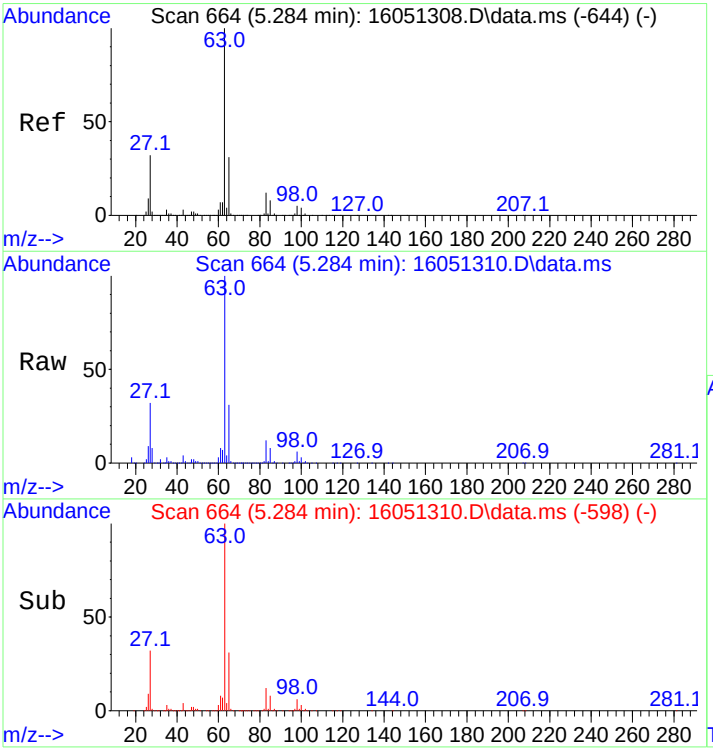


#13
trans,1,2-Dichloroethene
Concen: 615.62 ng
RT: 4.509 min Scan# 561
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 61 Resp: 676258

Ion	Ratio	Lower	Upper
61	100		
96	62.6	50.2	75.4

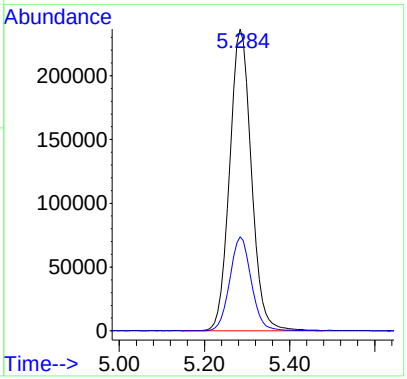


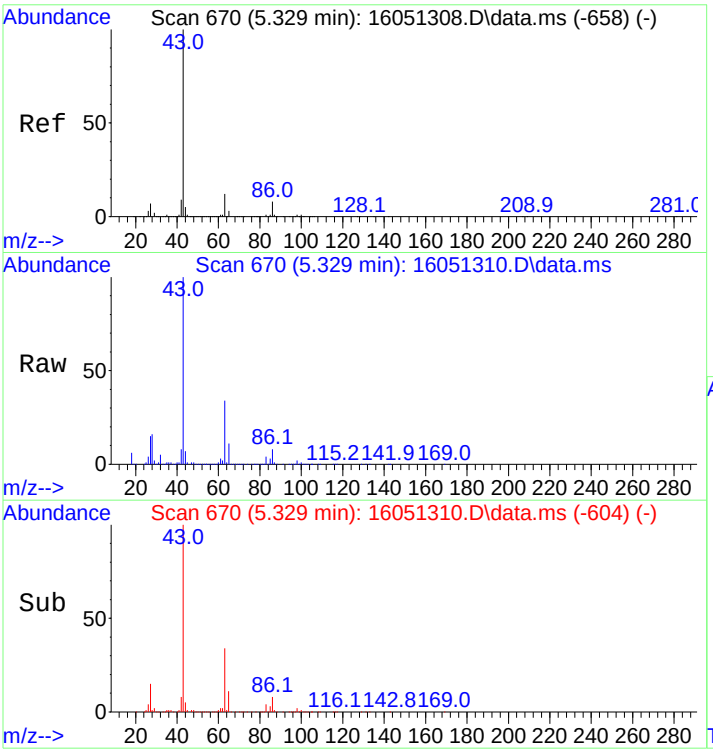


#14
1,1-Dichloroethane
Concen: 614.11 ng
RT: 5.284 min Scan# 664
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 63 Resp: 836700

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0

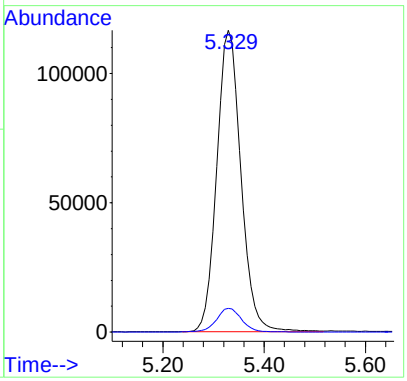


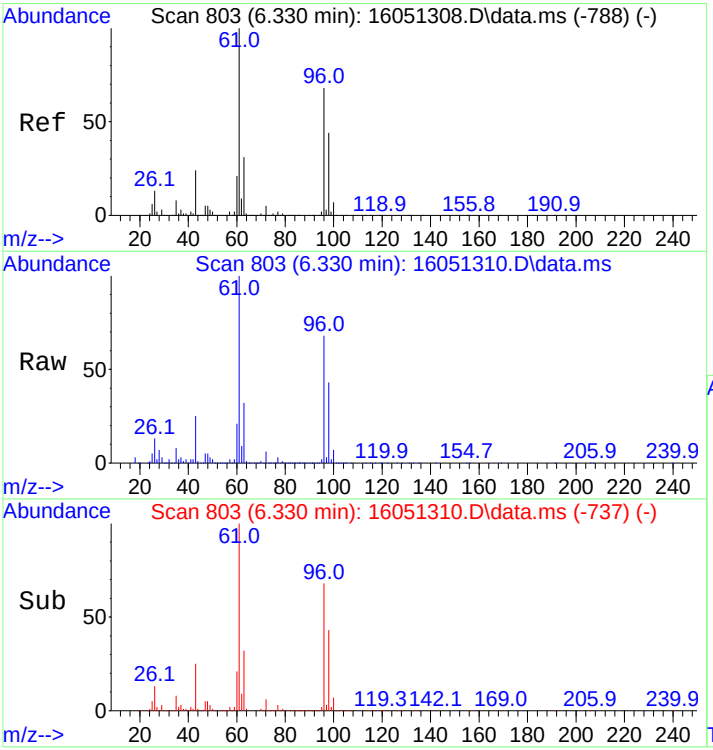


#15
Vinyl Acetate
Concen: 557.34 ng
RT: 5.329 min Scan# 670
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 386907

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.6	9.8

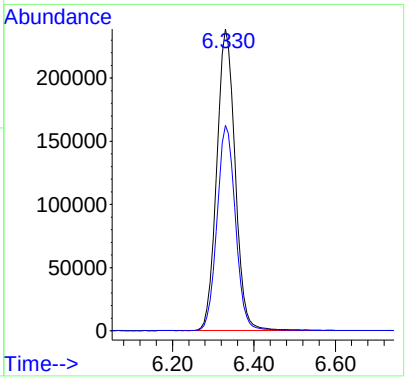


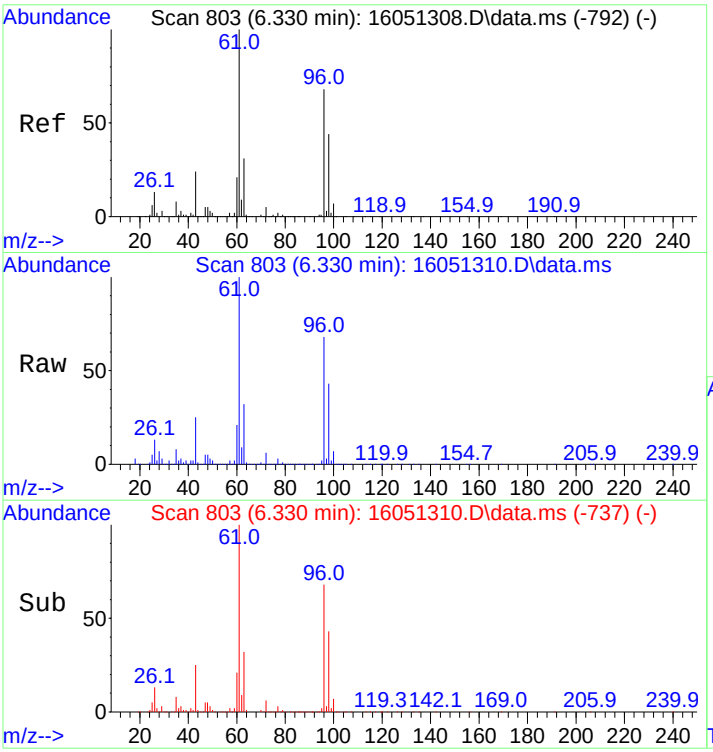


#16
cis,1,2-Dichloroethene
Concen: 589.01 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 61 Resp: 749890

Ion	Ratio	Lower	Upper
61	100		
96	68.1	54.6	81.8

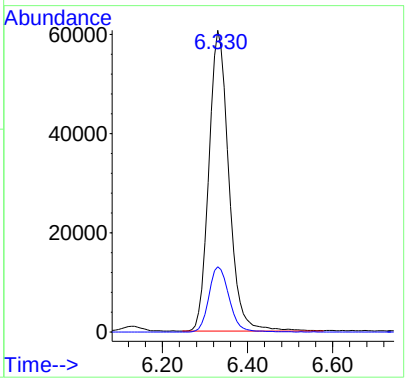


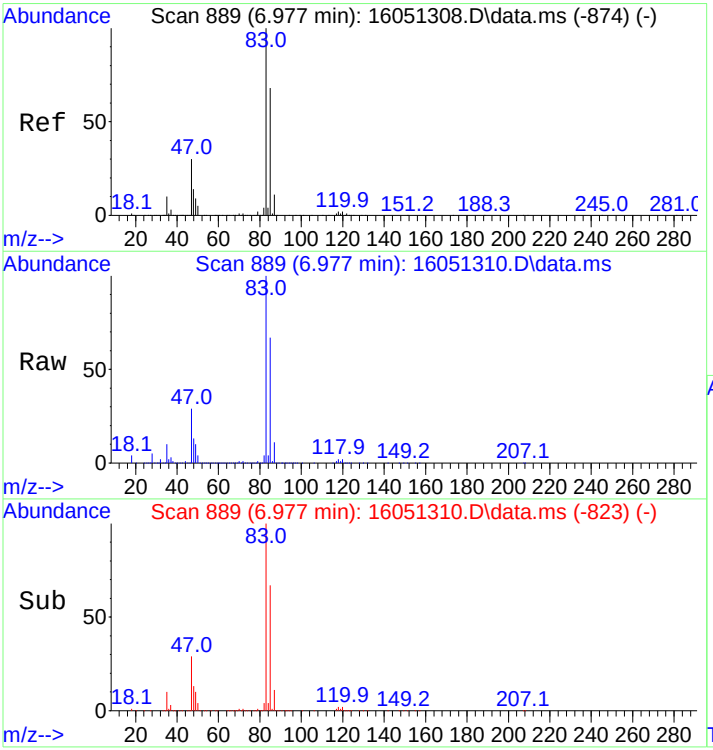


#17
2-Butanone
Concen: 450.50 ng
RT: 6.330 min Scan# 803
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 198387

Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.4	26.2

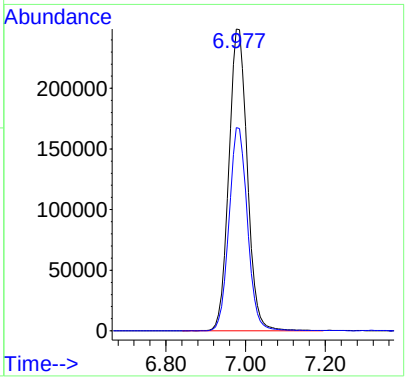


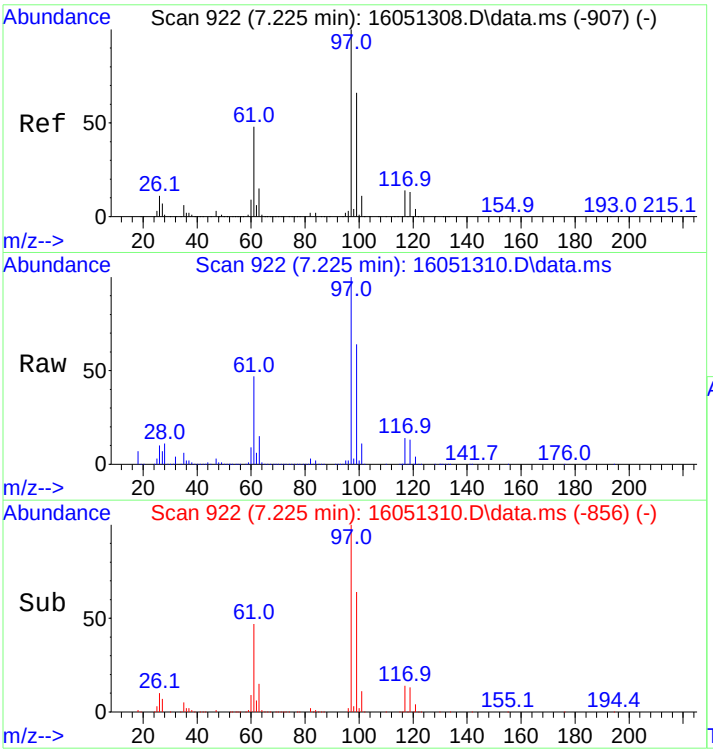


#18
Chloroform
Concen: 624.96 ng
RT: 6.977 min Scan# 889
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 798794

Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.9	80.9

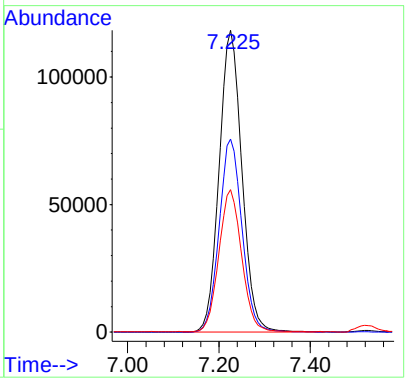


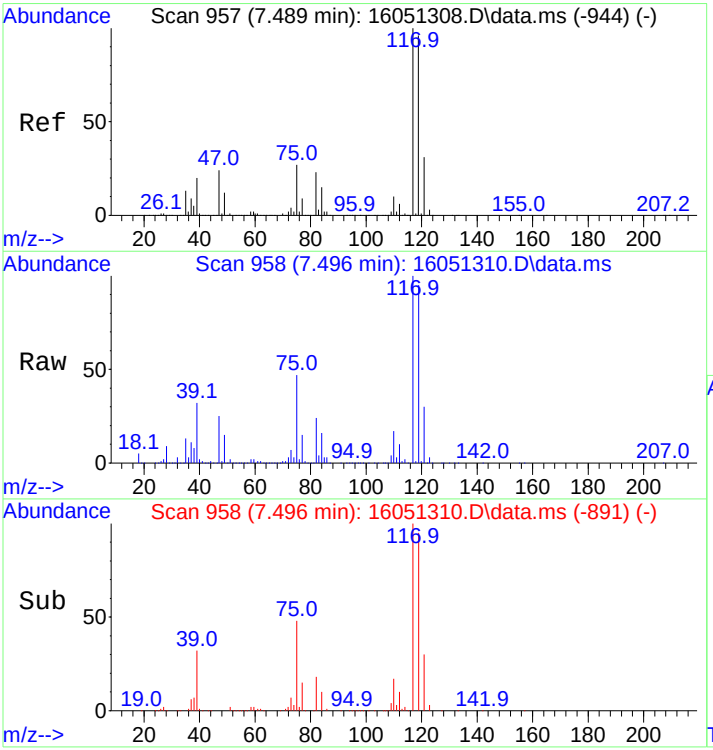


#19
1,1,1-Trichloroethane
Concen: 558.84 ng
RT: 7.225 min Scan# 922
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 97 Resp: 408433

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	47.1	37.6	56.4

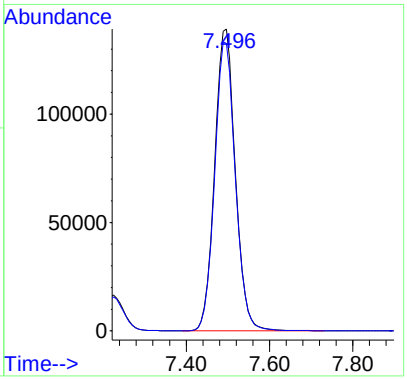


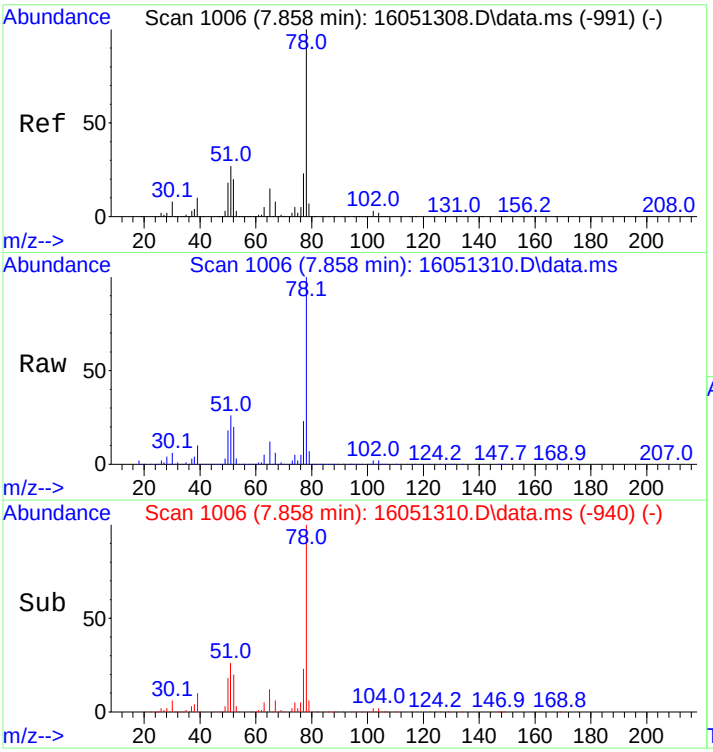


#22
Carbon Tetrachloride
Concen: 574.93 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:117 Resp: 478693

Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.0	115.4

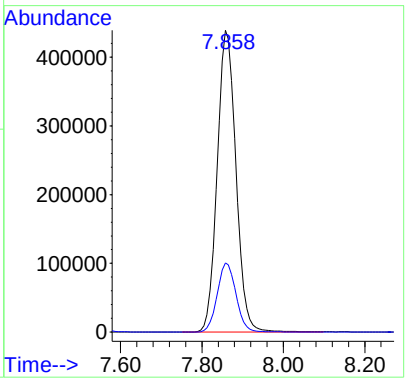


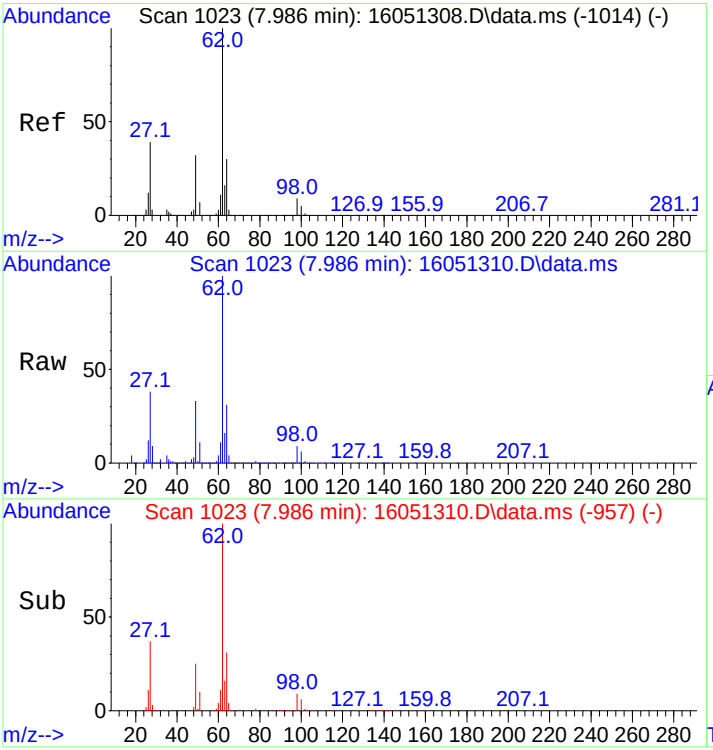


#23
Benzene
Concen: 444.66 ng
RT: 7.858 min Scan# 1006
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 78 Resp: 1402937

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

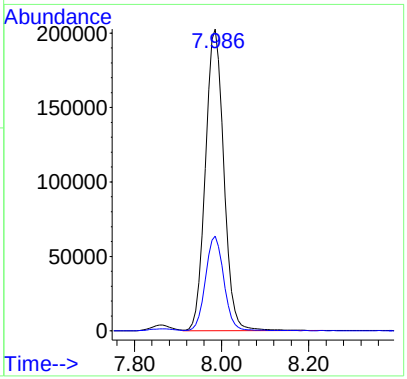


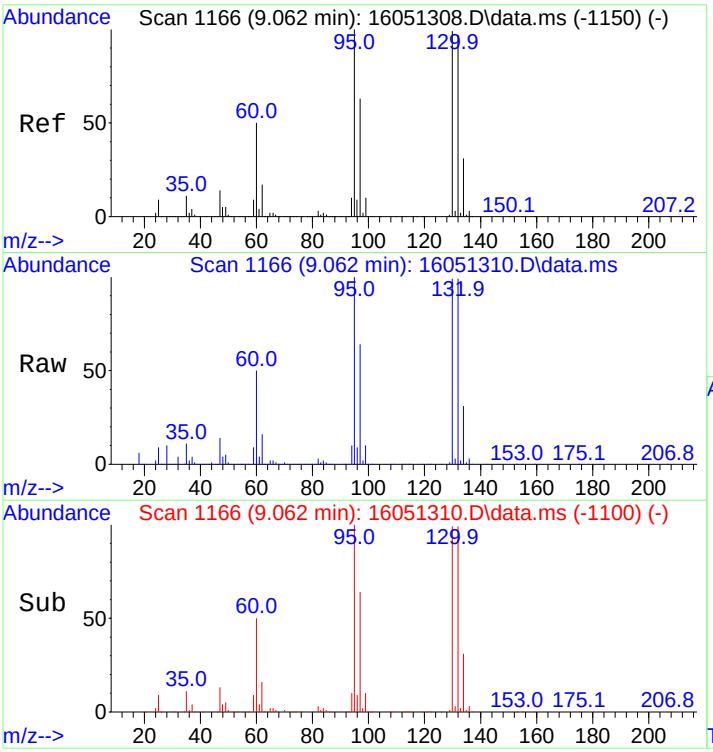


#24
1,2-Dichloroethane
Concen: 658.54 ng
RT: 7.986 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 62 Resp: 594793

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.8	37.2

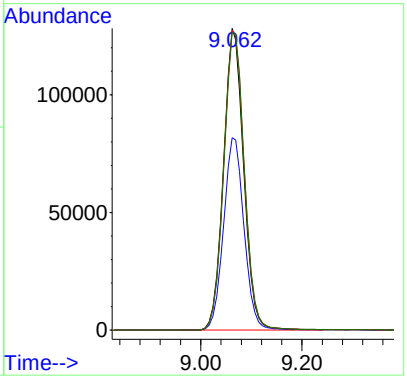


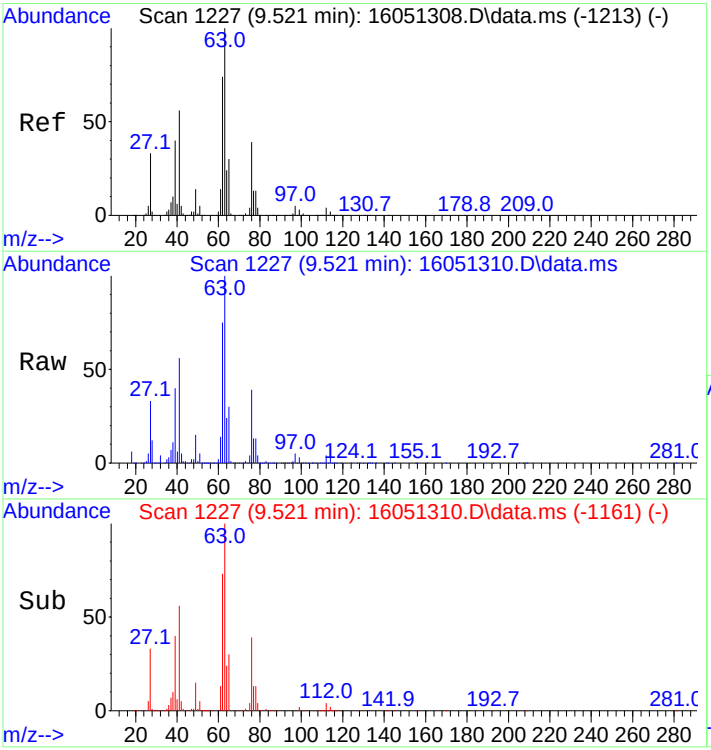


#25
Trichloroethene
Concen: 503.65 ng
RT: 9.062 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 95 Resp: 356253

Ion	Ratio	Lower	Upper
95	100		
97	64.7	51.8	77.8
130	101.5	81.9	122.9
132	101.1	81.2	121.8

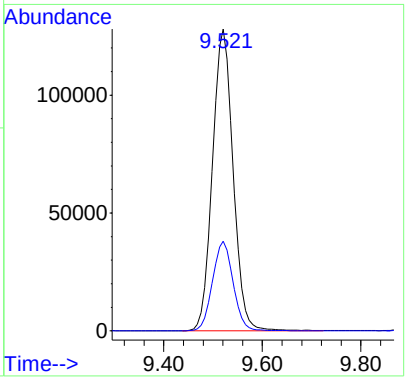


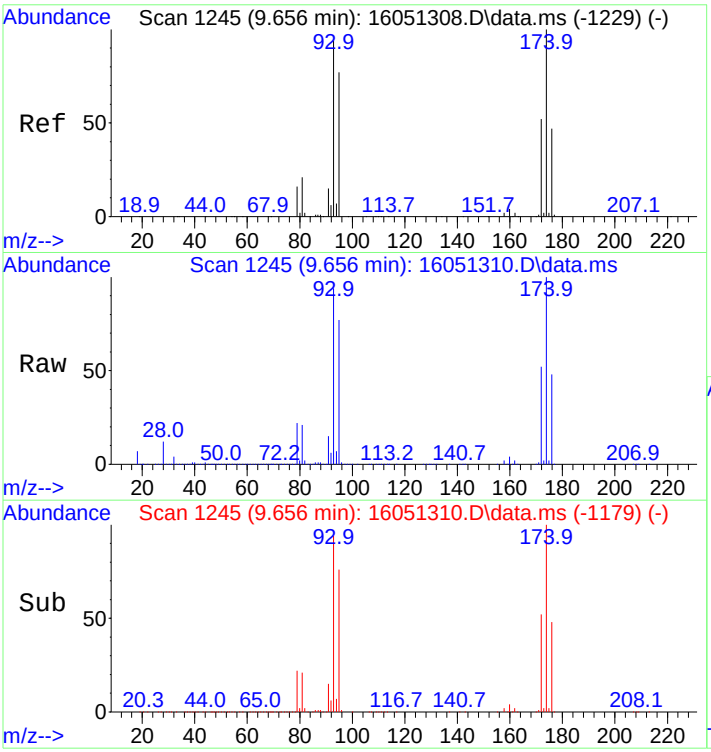


#26
1,2-Dichloropropane
Concen: 513.46 ng
RT: 9.521 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 63 Resp: 371332

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.2	36.2

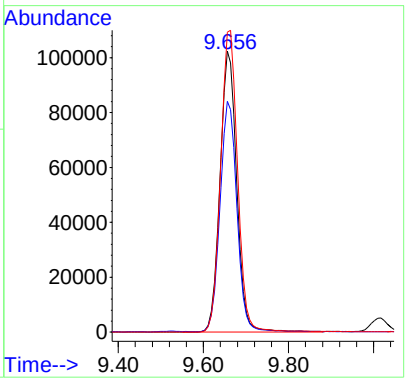


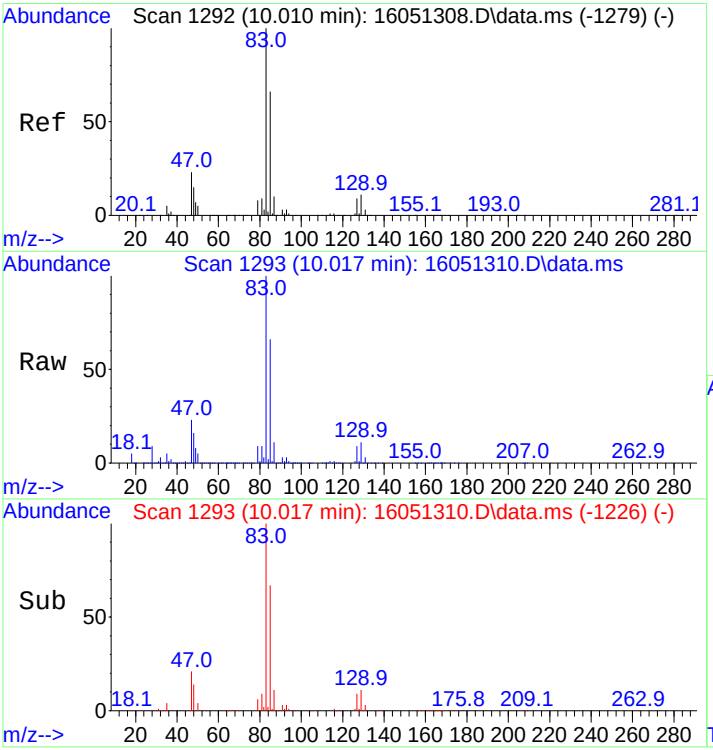


#27
Dibromomethane
Concen: 690.43 ng
RT: 9.656 min Scan# 1245
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 93 Resp: 279680

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.5	98.3
174	109.2	85.5	128.3

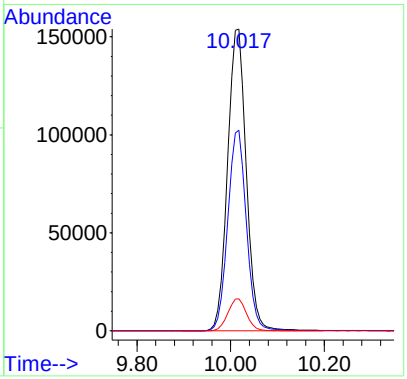


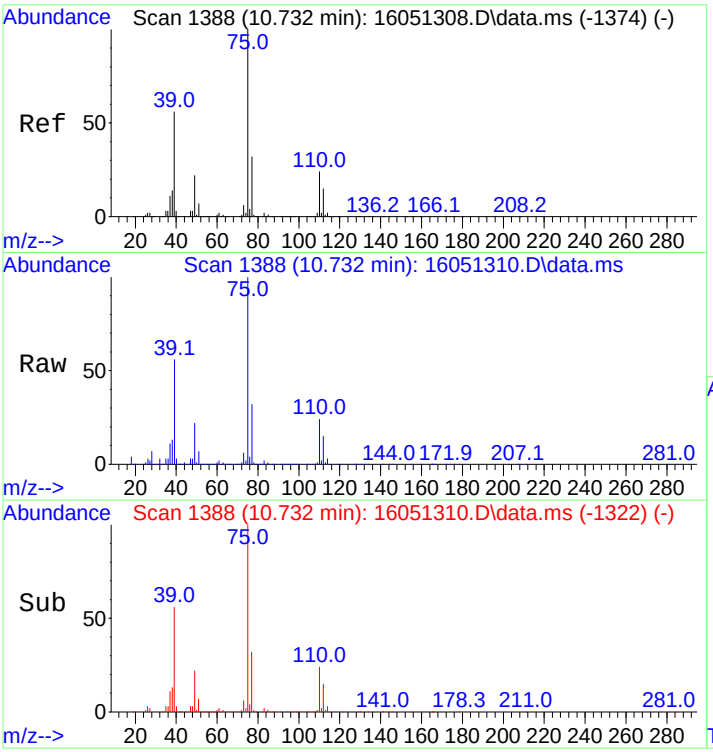


#28
Bromodichloromethane
Concen: 542.70 ng
RT: 10.017 min Scan# 1293
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 427358

Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.5	78.7
87	10.7	8.3	12.5

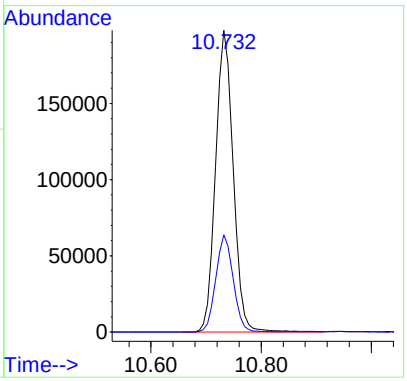


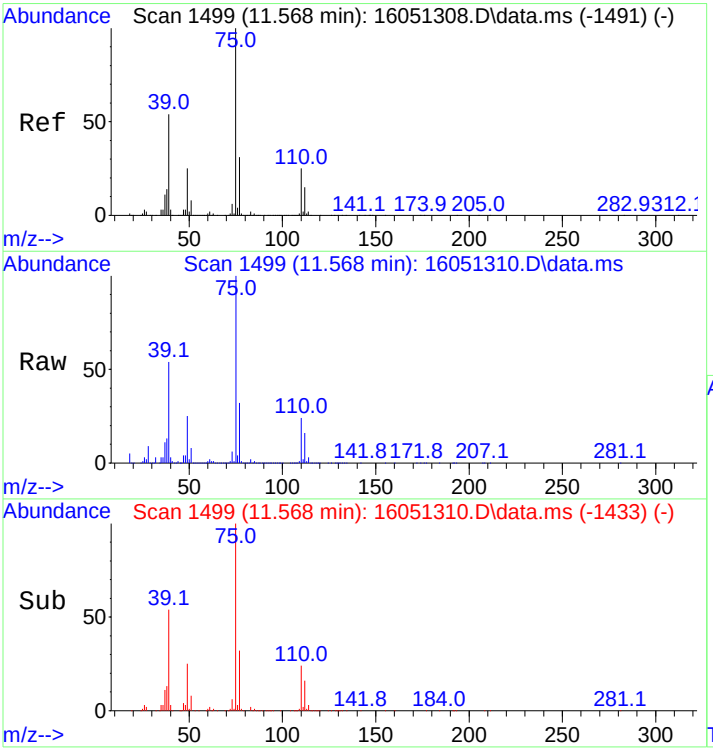


#29
cis,1,3-Dichloropropene
Concen: 546.00 ng
RT: 10.732 min Scan# 1388
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 440476

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4

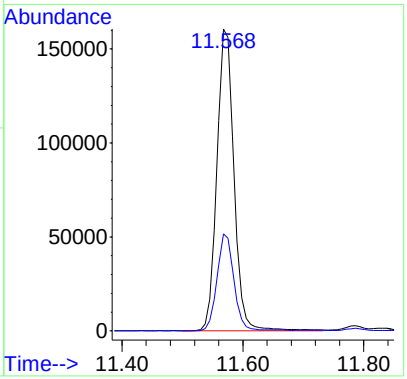


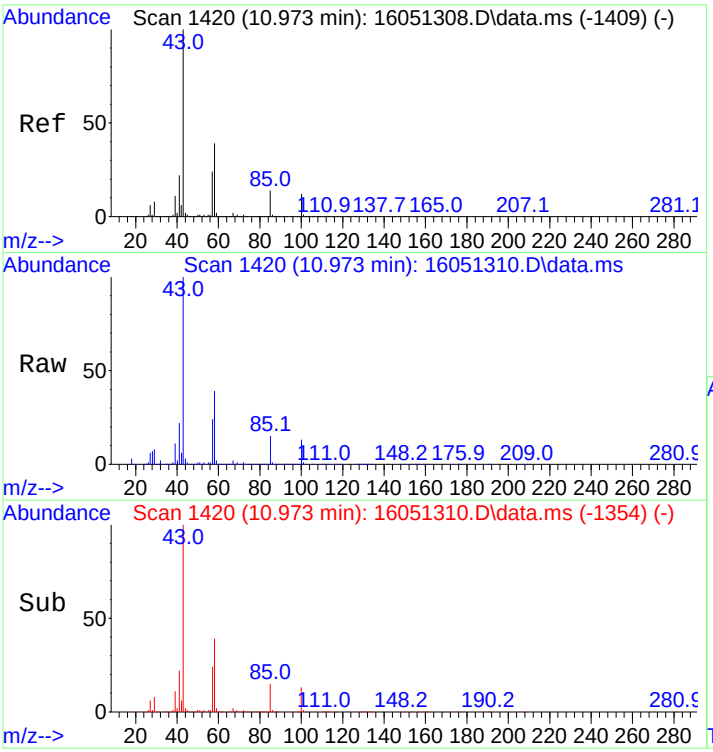


#30
trans,1,3-Dichloropropene
Concen: 572.09 ng
RT: 11.568 min Scan# 1499
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 313906

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.0	39.0

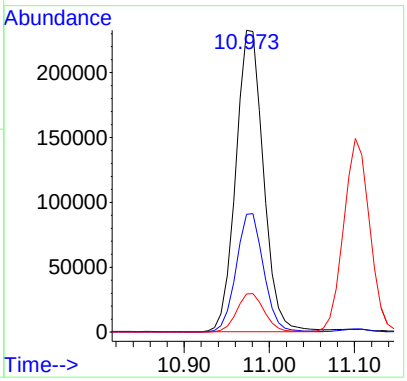


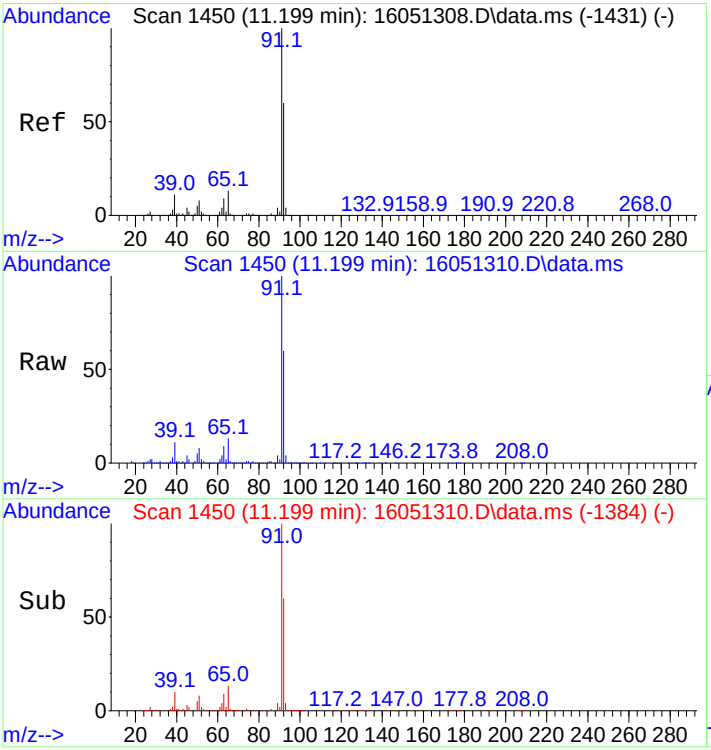


#31
4-Methyl-2-Pentanone
Concen: 492.66 ng
RT: 10.973 min Scan# 1420
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 524675

Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.3	46.9
100	12.9	10.2	15.2

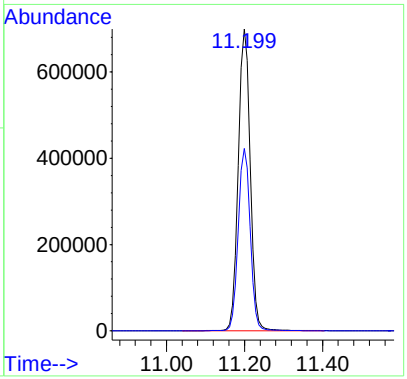


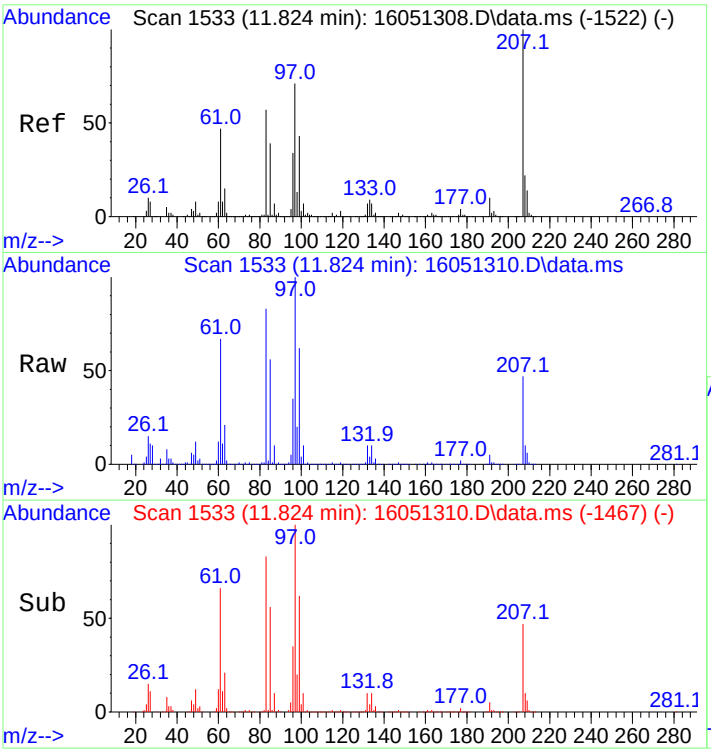


#33
Toluene
Concen: 481.28 ng
RT: 11.199 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1490640

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.6	73.0

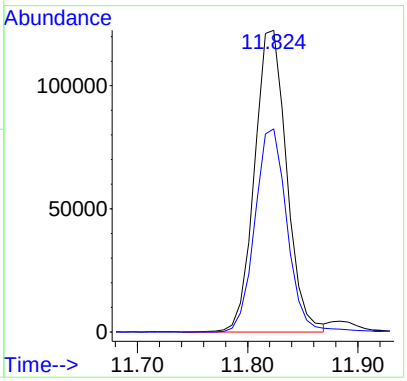


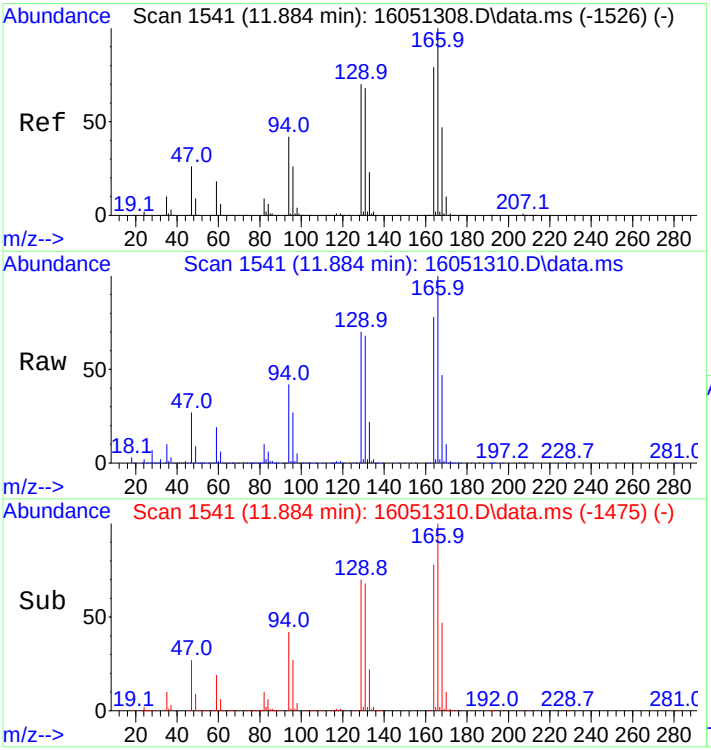


#34
1,1,2-Trichloroethane
Concen: 461.31 ng
RT: 11.824 min Scan# 1533
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 246925

Ion	Ratio	Lower	Upper
83	100		
85	68.1	54.7	82.1

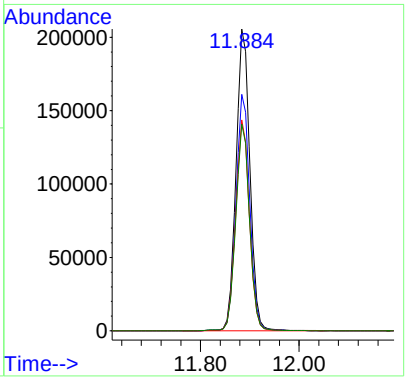


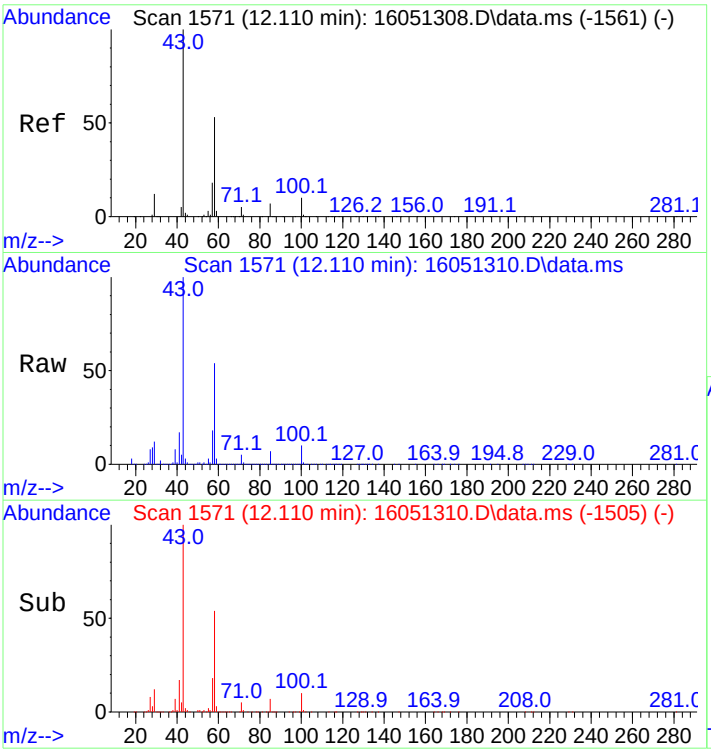


#35
Tetrachloroethene
Concen: 495.12 ng
RT: 11.884 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:166 Resp: 401626

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.2	94.8
129	69.3	55.5	83.3
131	68.3	55.2	82.8

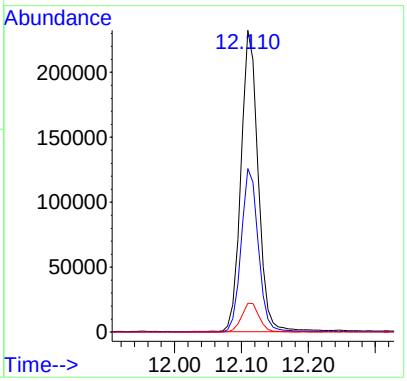


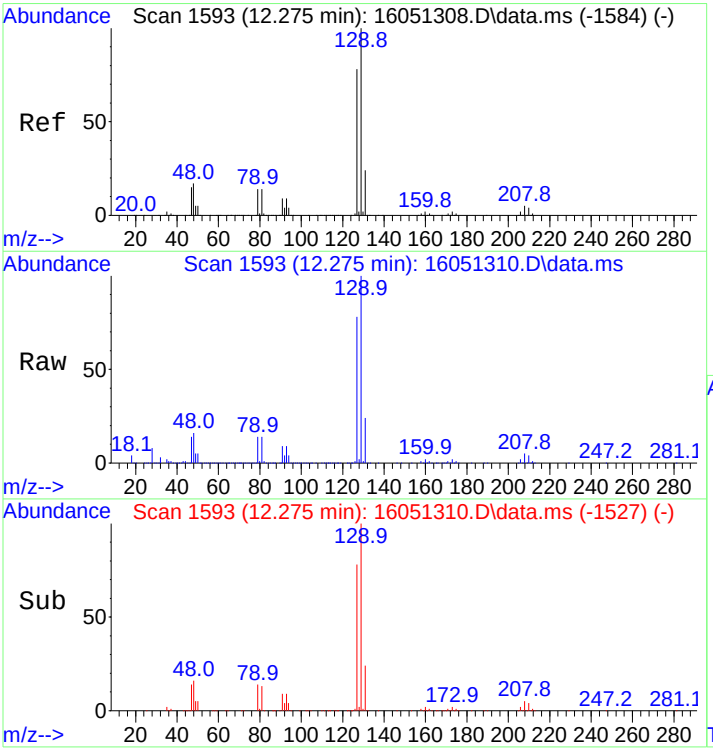


#36
2-Hexanone
Concen: 521.20 ng
RT: 12.110 min Scan# 1571
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 43 Resp: 414140

Ion	Ratio	Lower	Upper
43	100		
58	54.9	43.6	65.4
100	10.0	7.8	11.8

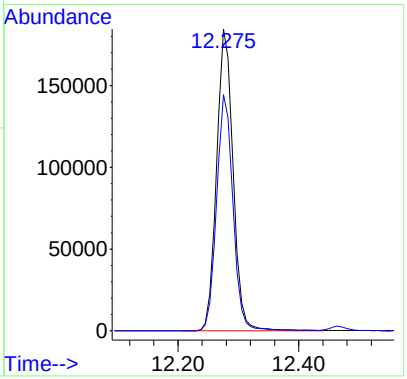


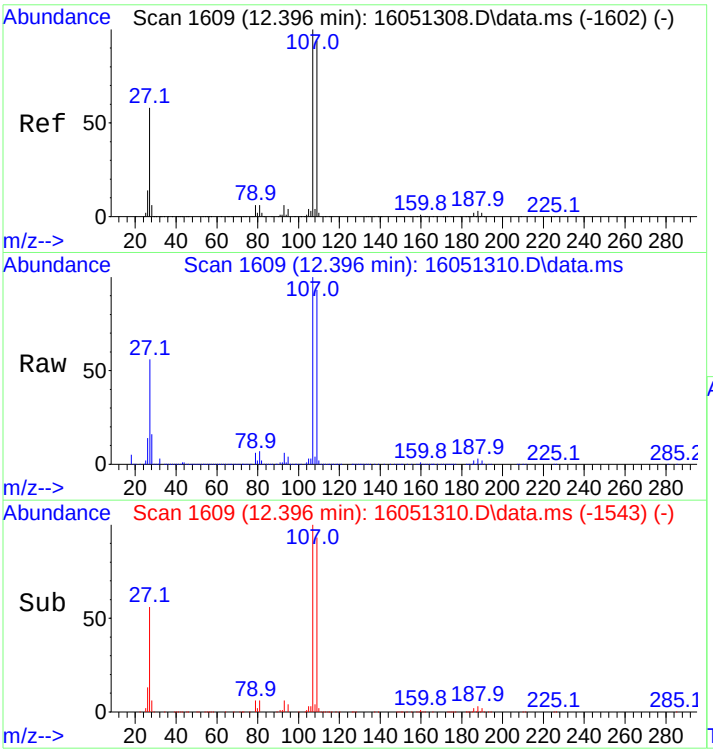


#37
Chlorodibromomethane
Concen: 480.91 ng
RT: 12.275 min Scan# 1593
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:129 Resp: 349145

Ion	Ratio	Lower	Upper
129	100		
127	77.9	62.3	93.5

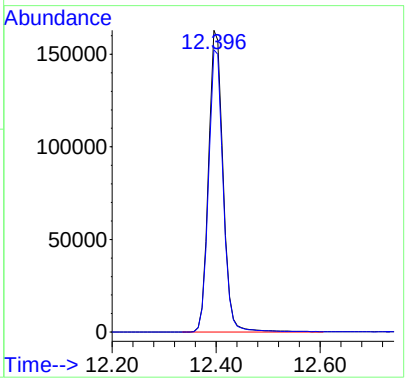


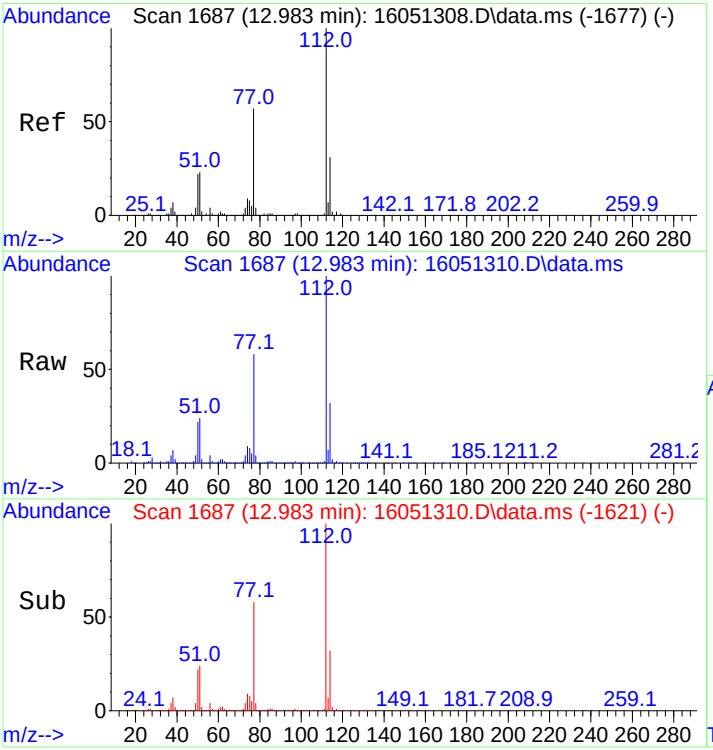


#38
Ethylene Dibromide
Concen: 476.87 ng
RT: 12.396 min Scan# 1609
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:107 Resp: 316021

Ion	Ratio	Lower	Upper
107	100		
109	93.7	74.3	111.5

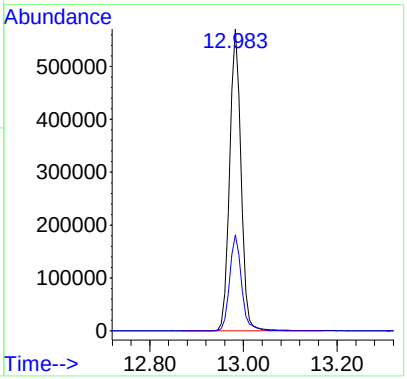


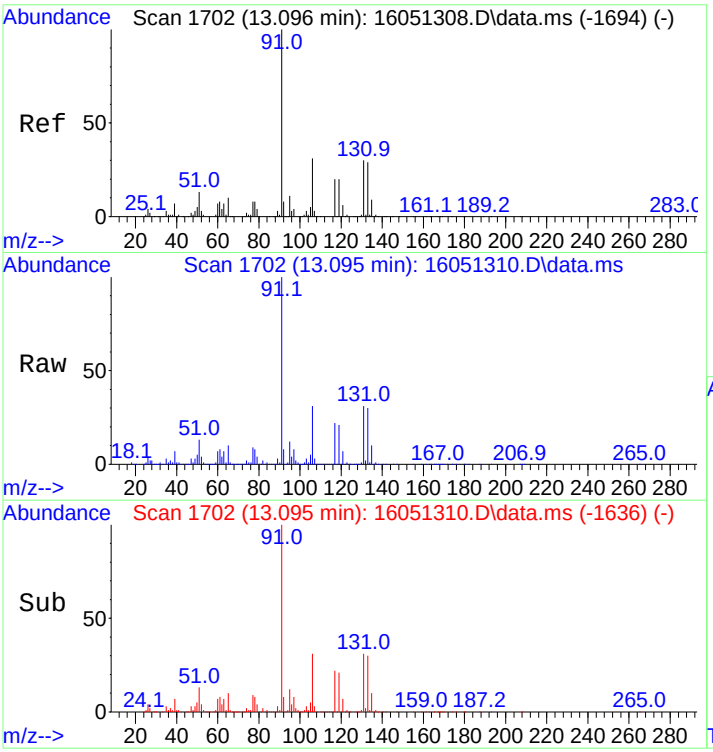


#39
Chlorobenzene
Concen: 506.68 ng
RT: 12.983 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:112 Resp: 964308

Ion	Ratio	Lower	Upper
112	100		
114	33.2	27.5	41.3

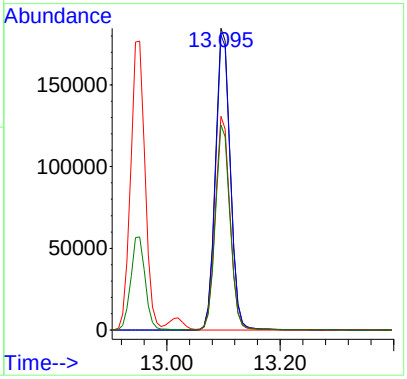


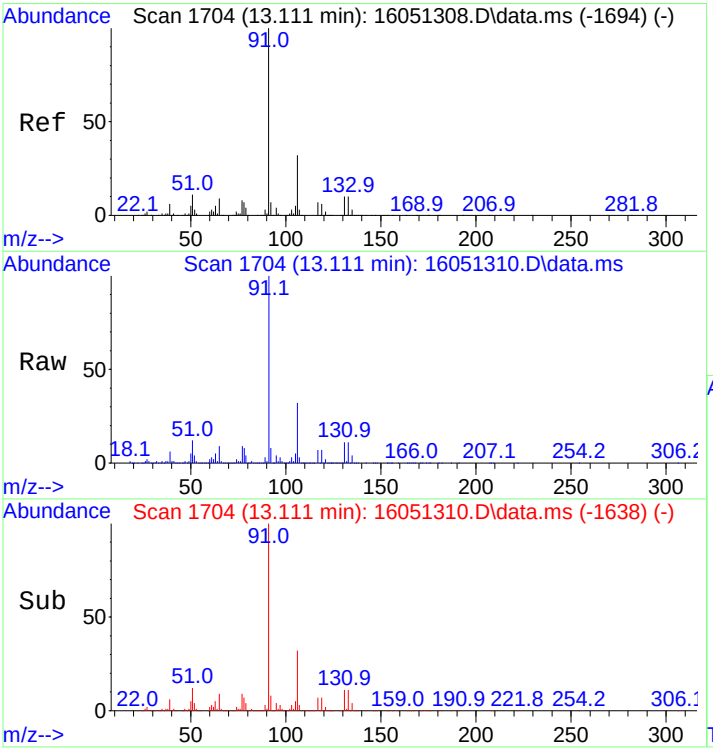


#40
1,1,1,2-Tetrachloroethane
Concen: 497.68 ng
RT: 13.095 min Scan# 1702
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:131 Resp: 336159

Ion	Ratio	Lower	Upper
131	100		
133	97.3	77.8	116.6
117	70.4	57.1	85.7
119	67.1	54.3	81.5

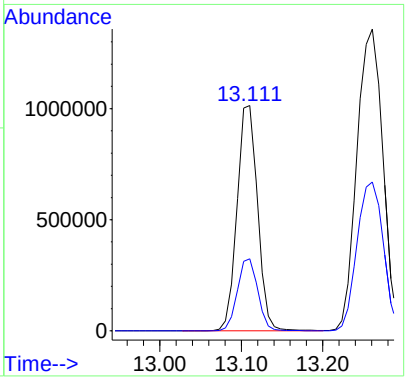


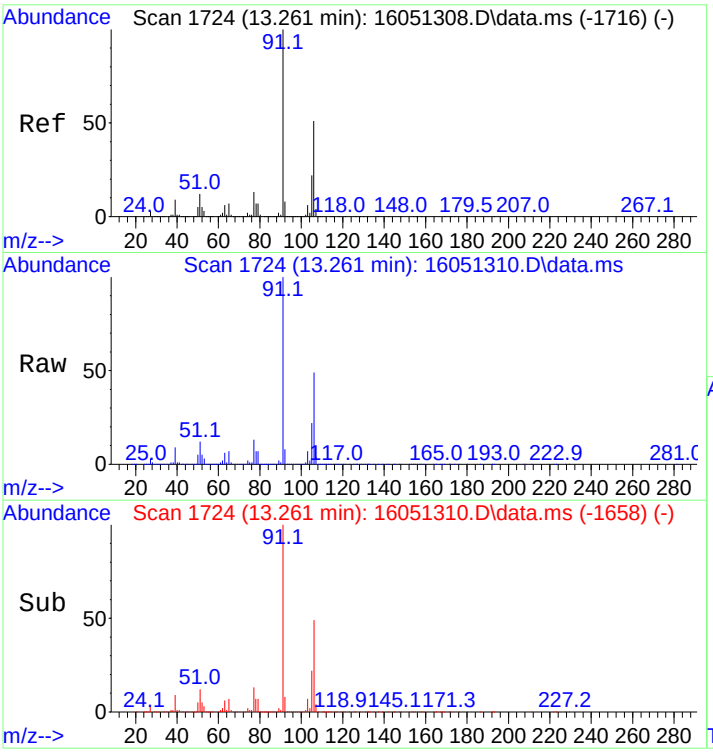


#41
Ethylbenzene
Concen: 503.70 ng
RT: 13.111 min Scan# 1704
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1772307

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.5	38.3

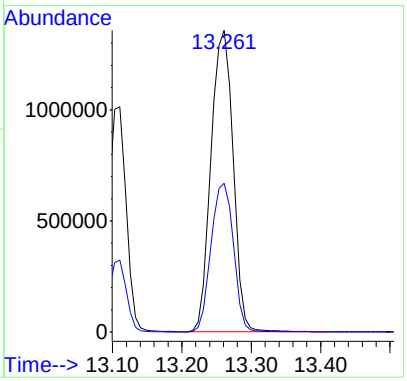


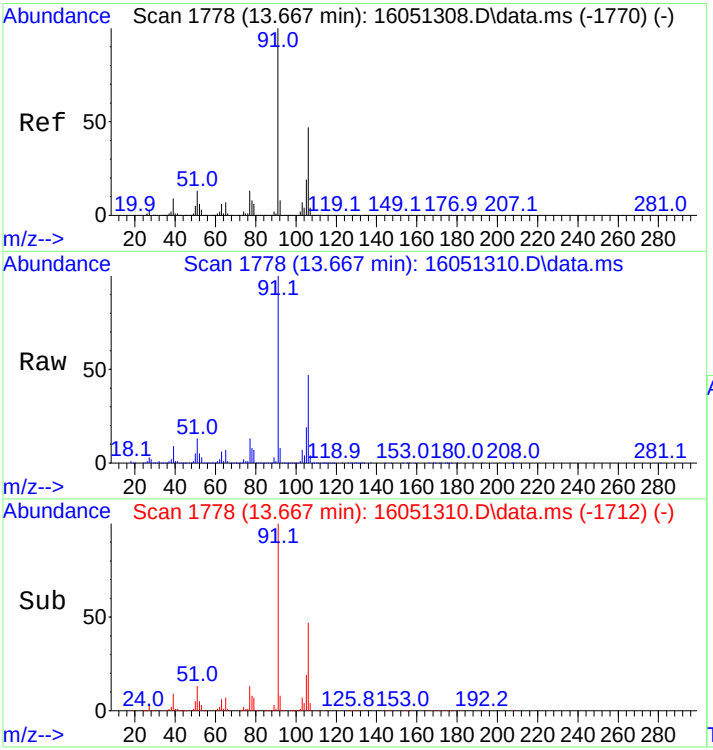


#42
M&P-Xylene
Concen: 1003.83 ng
RT: 13.261 min Scan# 1724
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 3003411

Ion	Ratio	Lower	Upper
91	100		
106	50.2	40.4	60.6

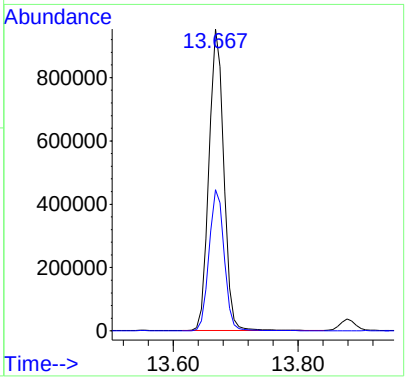


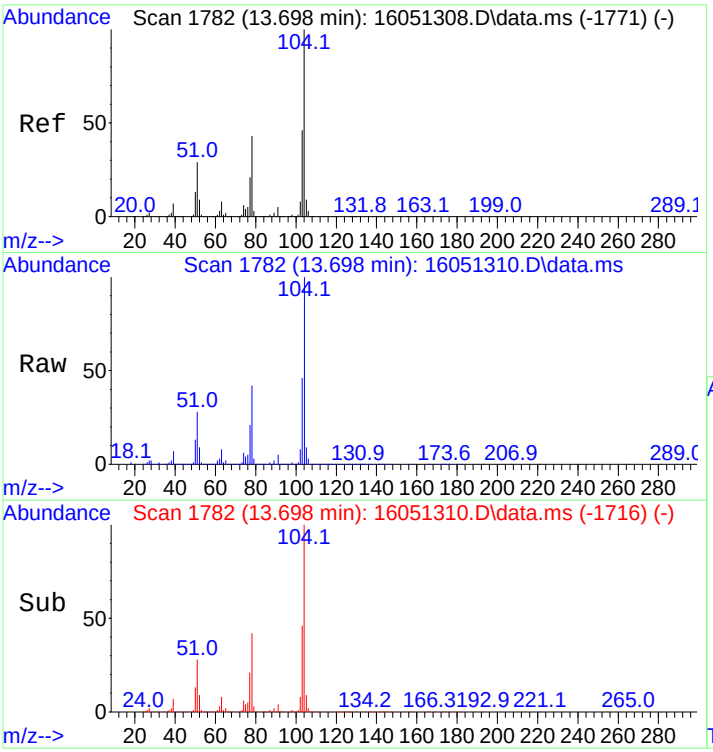


#43
O-Xylene
Concen: 507.36 ng
RT: 13.667 min Scan# 1778
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1573704

Ion	Ratio	Lower	Upper
91	100		
106	47.7	38.2	57.2

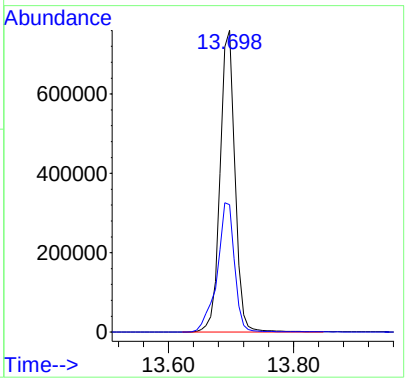


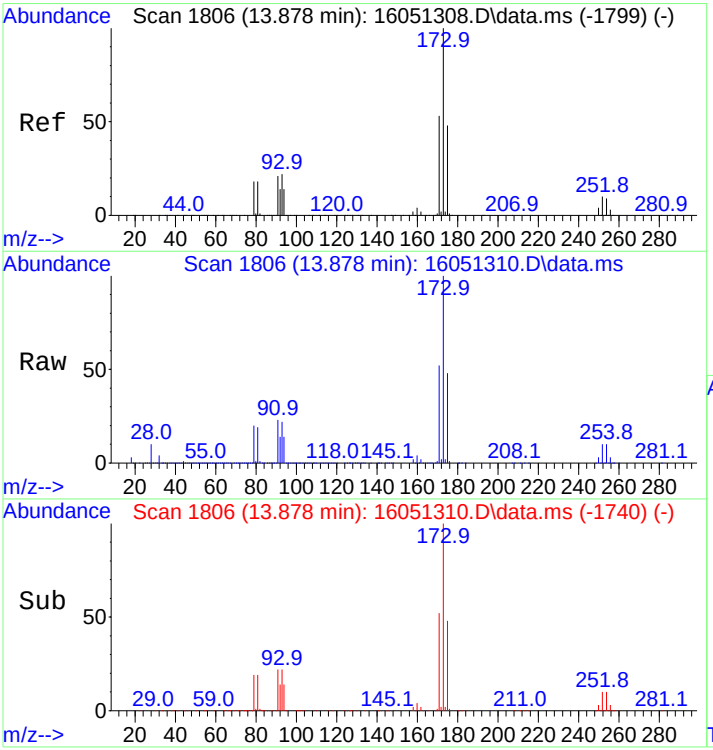


#44
Styrene
Concen: 478.01 ng
RT: 13.698 min Scan# 1782
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:104 Resp: 1265623

Ion	Ratio	Lower	Upper
104	100		
78	50.0	39.8	59.6

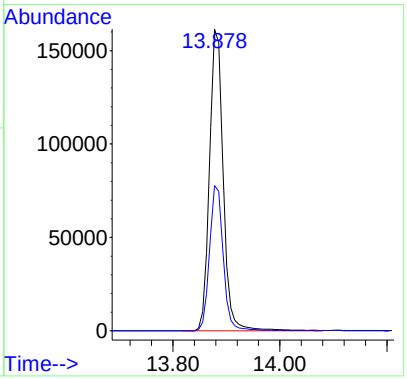


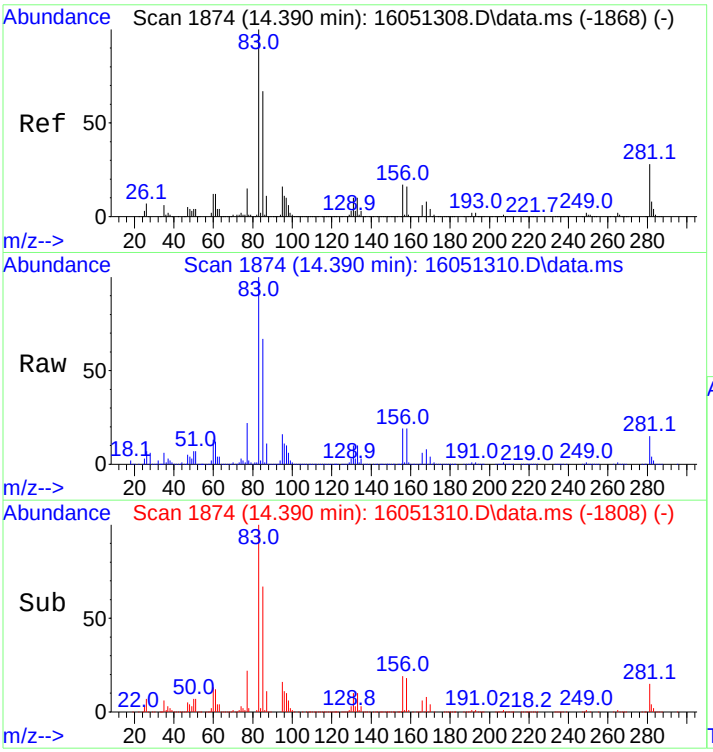


#45
Bromoform
Concen: 504.30 ng
RT: 13.878 min Scan# 1806
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:173 Resp: 288551

Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.5	57.7

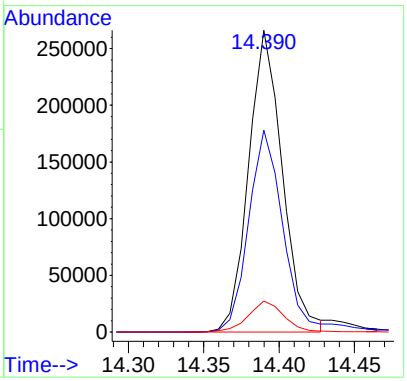


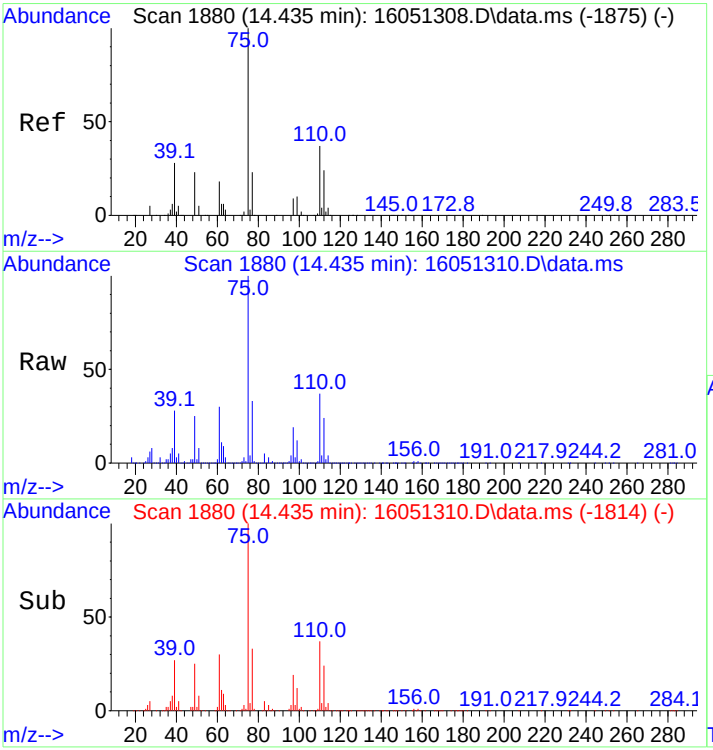


#46
1,1,2,2-Tetrachloroethane
Concen: 456.52 ng m
RT: 14.390 min Scan# 1874
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 83 Resp: 415384

Ion	Ratio	Lower	Upper
83	100		
85	66.9	53.1	79.7
131	11.1	8.9	13.3

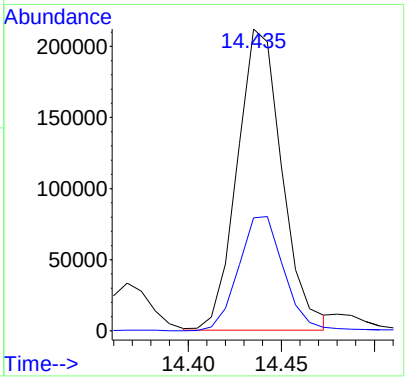


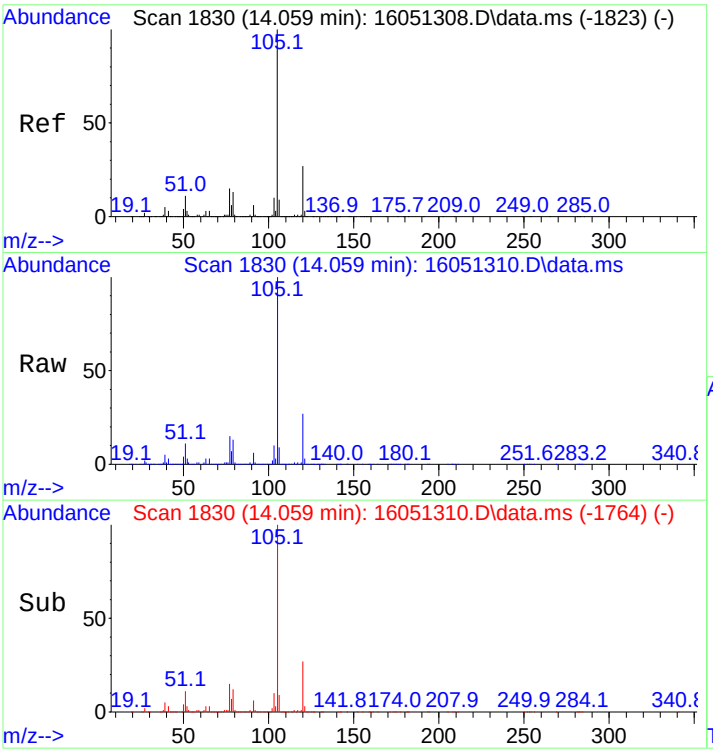


#47
1,2,3-Trichloropropane
Concen: 471.63 ng m
RT: 14.435 min Scan# 1880
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 354758

Ion	Ratio	Lower	Upper
75	100		
110	38.9	30.5	45.7

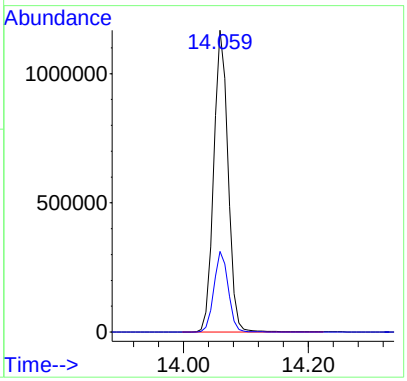


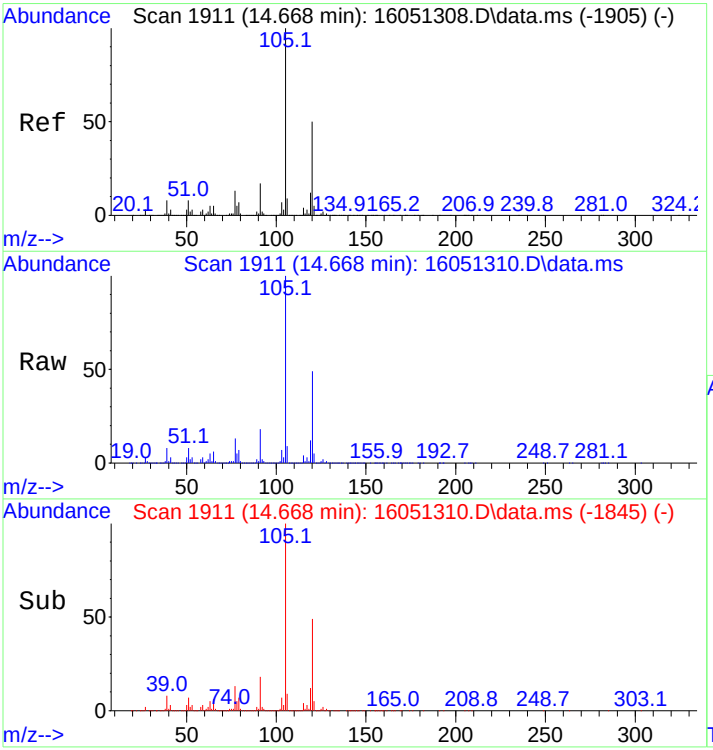


#51
Isopropylbenzene
Concen: 516.46 ng
RT: 14.059 min Scan# 1830
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 1861748

Ion	Ratio	Lower	Upper
105	100		
120	26.7	21.4	32.2

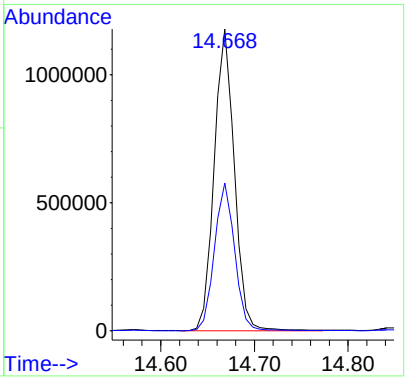


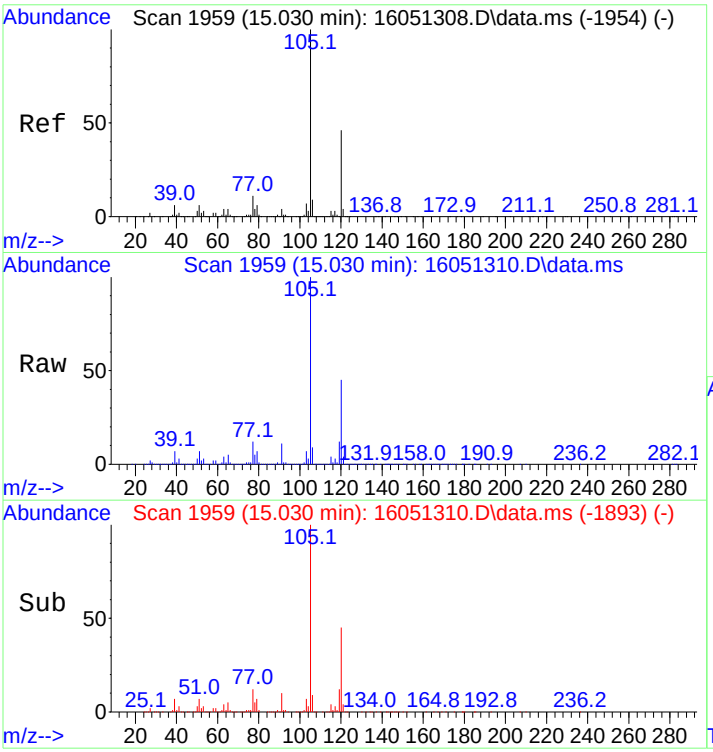


#52
1,3,5-Trimethylbenzene
Concen: 501.06 ng
RT: 14.668 min Scan# 1911
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 1760344

Ion	Ratio	Lower	Upper
105	100		
120	49.2	39.9	59.9

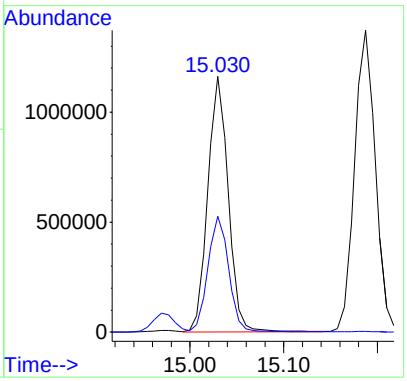


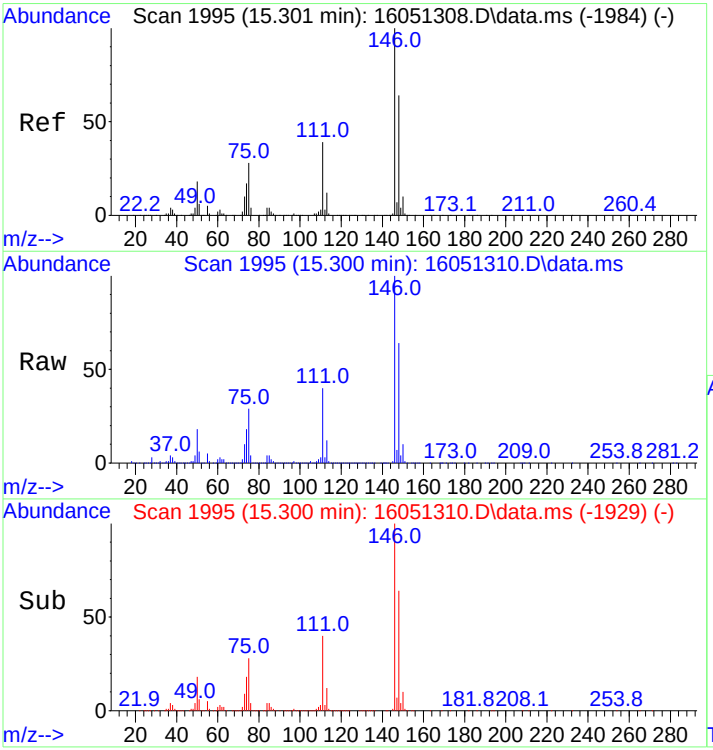


#53
1,2,4-Trimethylbenzene
Concen: 508.97 ng
RT: 15.030 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 1765566

Ion	Ratio	Lower	Upper
105	100		
120	46.1	37.5	56.3

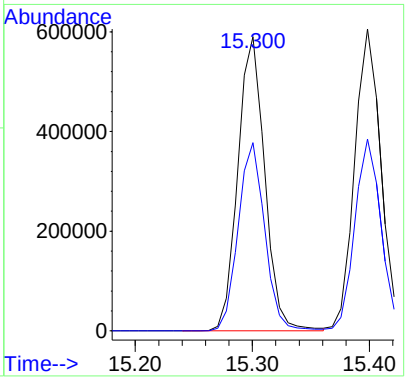


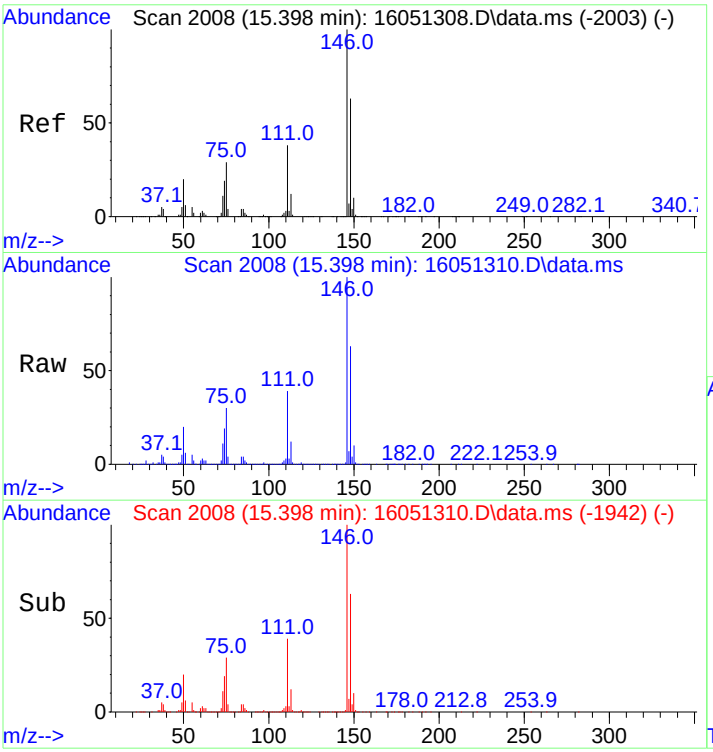


#54
1,3-Dichlorobenzene
Concen: 520.18 ng
RT: 15.300 min Scan# 1995
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:146 Resp: 941721

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	76.0

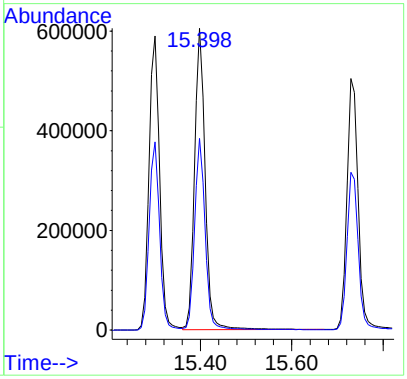


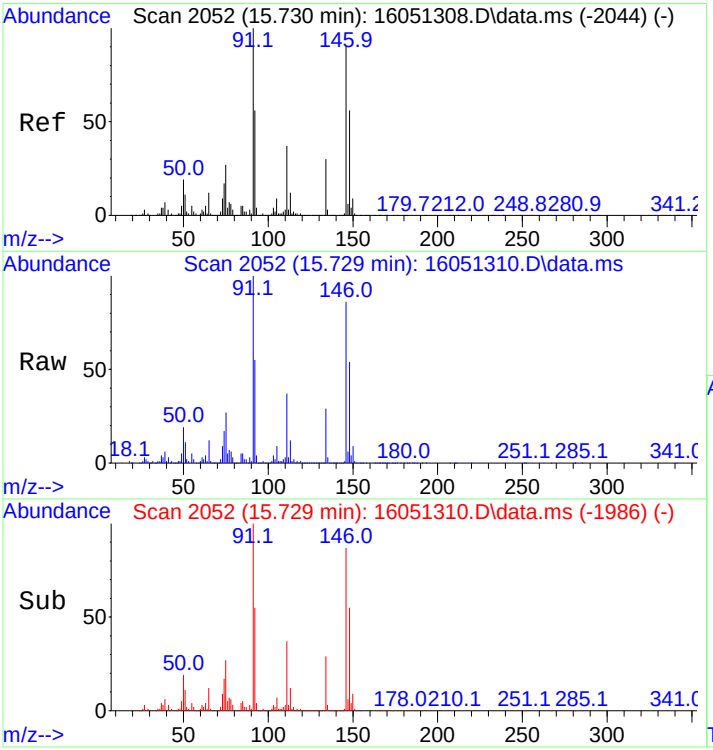


#55
1,4-Dichlorobenzene
Concen: 511.26 ng
RT: 15.398 min Scan# 2008
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:146 Resp: 978341

Ion	Ratio	Lower	Upper
146	100		
148	62.6	49.9	74.9

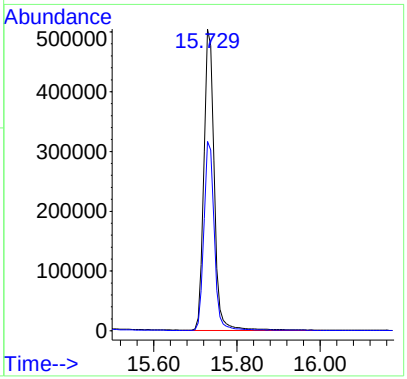


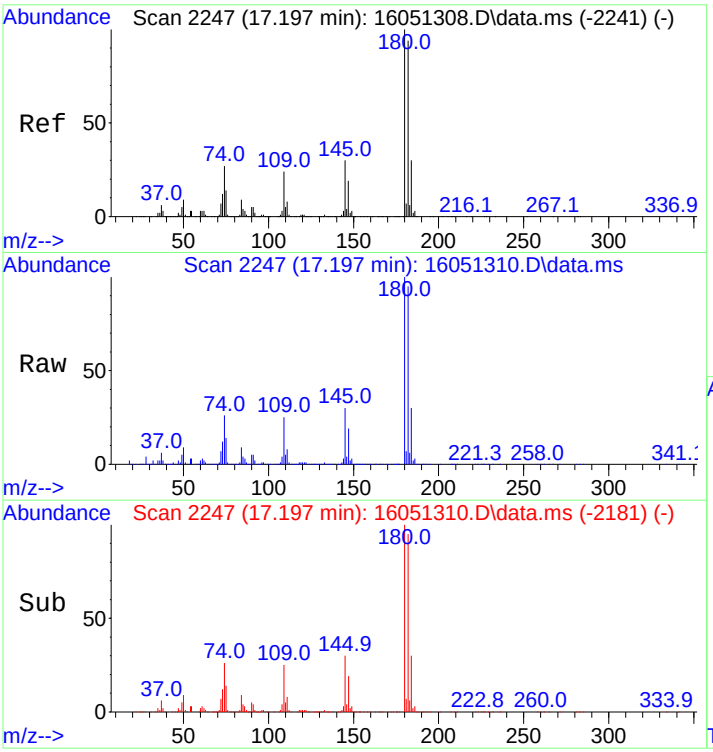


#56
1,2-Dichlorobenzene
Concen: 508.61 ng
RT: 15.729 min Scan# 2052
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:146 Resp: 870903

Ion	Ratio	Lower	Upper
146	100		
148	62.6	49.9	74.9

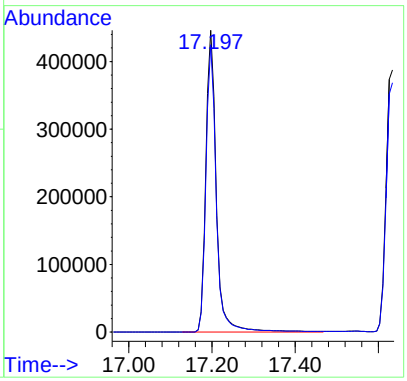


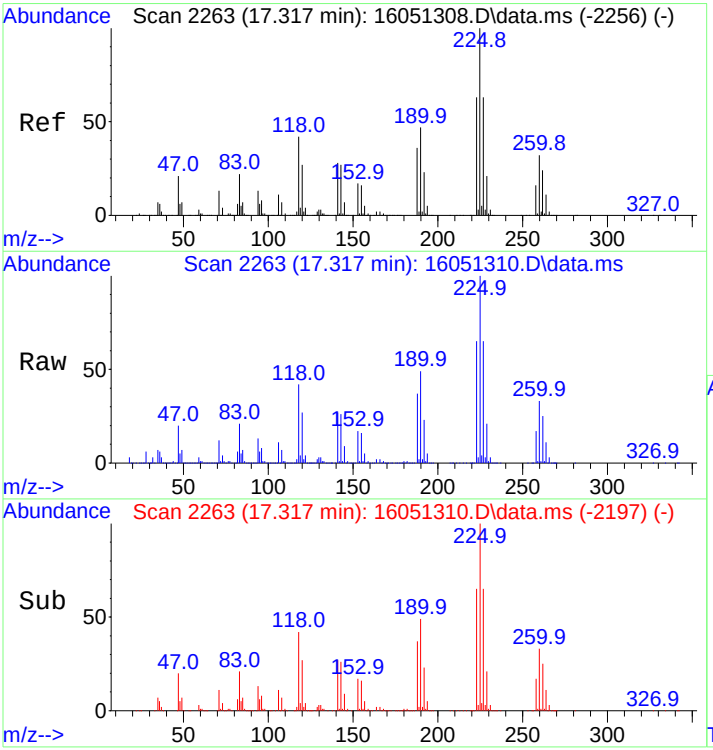


#57
1,2,4-Trichlorobenzene
Concen: 536.57 ng
RT: 17.197 min Scan# 2247
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:180 Resp: 779260

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.0	112.4

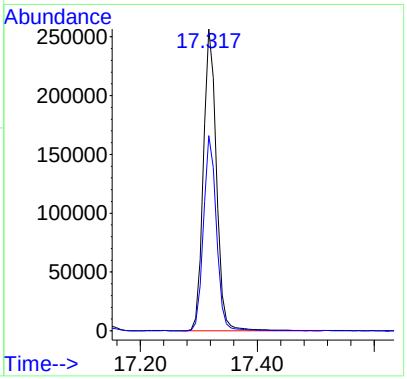


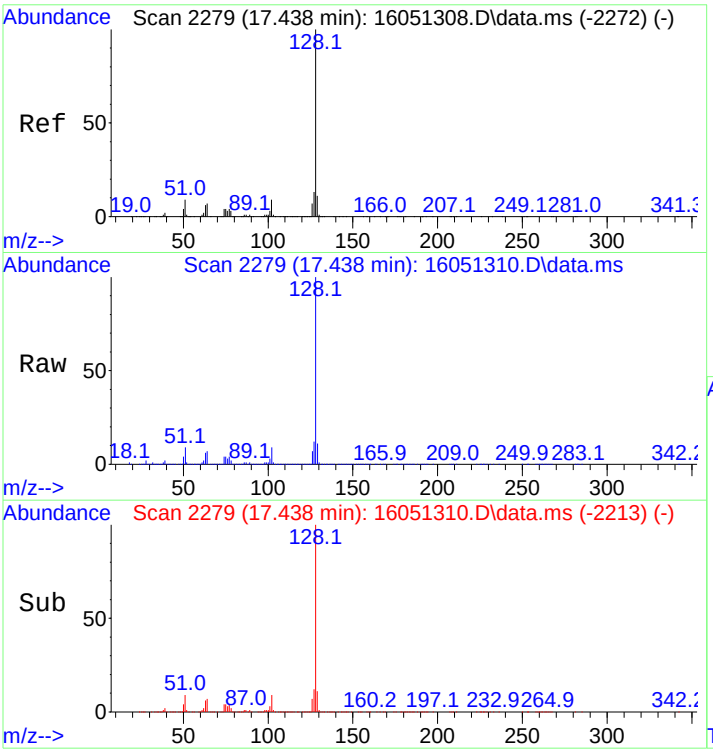


#58
Hexachlorobutadiene
Concen: 522.88 ng
RT: 17.317 min Scan# 2263
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:225 Resp: 399154

Ion	Ratio	Lower	Upper
225	100		
227	64.1	51.1	76.7

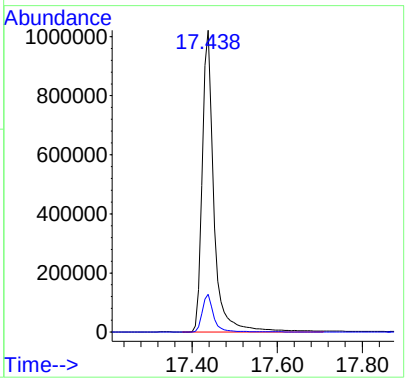


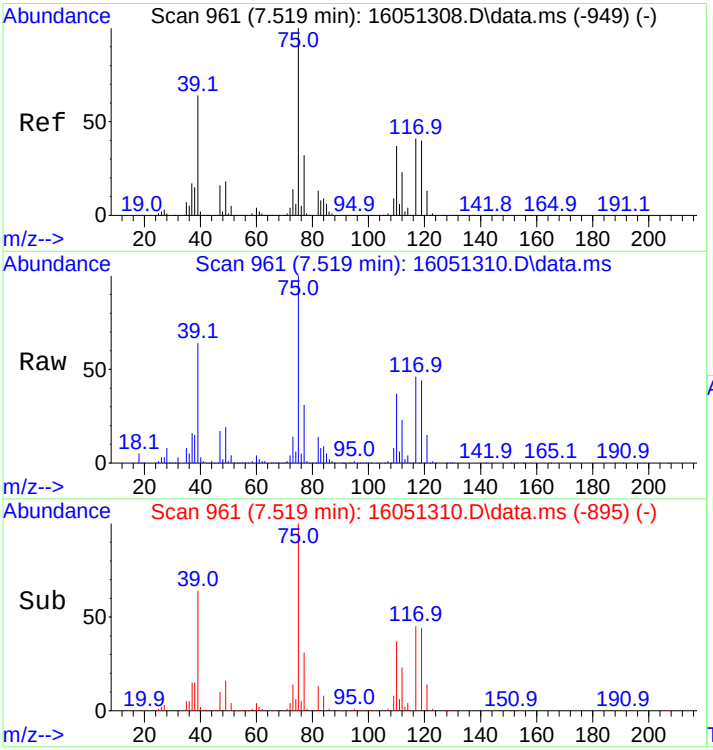


#59
Naphthalene
Concen: 550.48 ng
RT: 17.438 min Scan# 2279
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:128 Resp: 1962306

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

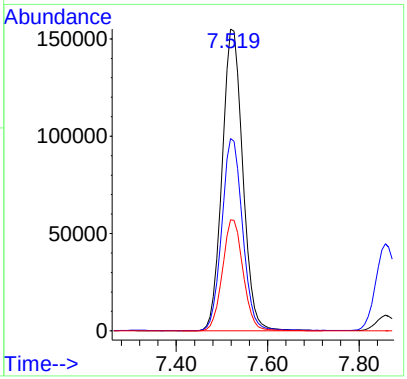


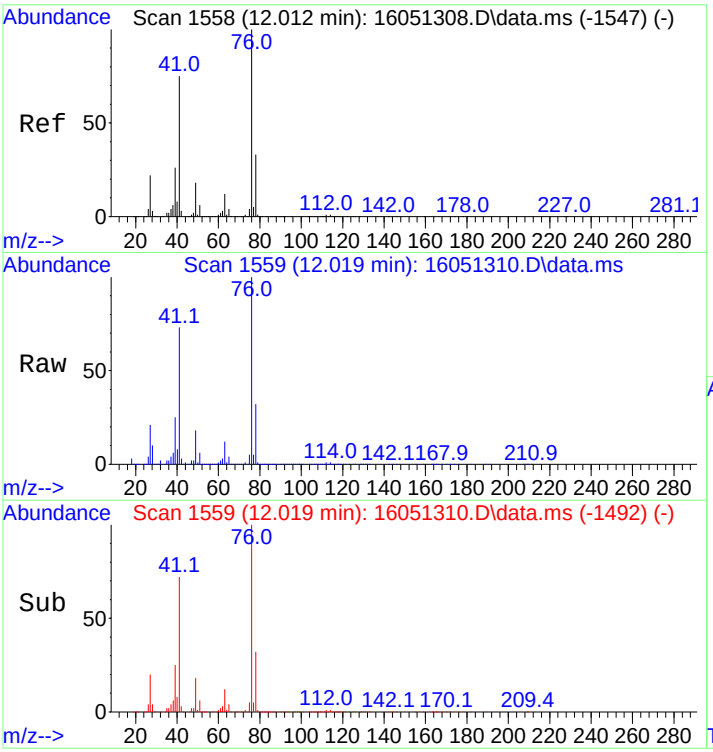


#60
1,1-Dichloropropene
Concen: 490.15 ng
RT: 7.519 min Scan# 961
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 75 Resp: 486444

Ion	Ratio	Lower	Upper
75	100		
39	64.1	51.8	77.6
110	36.9	29.3	43.9

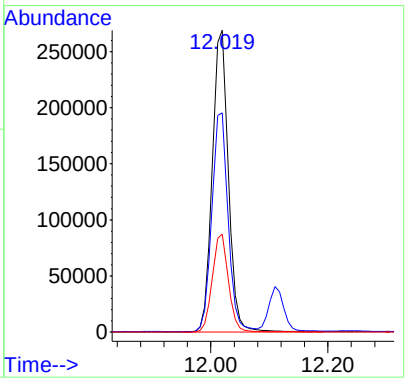


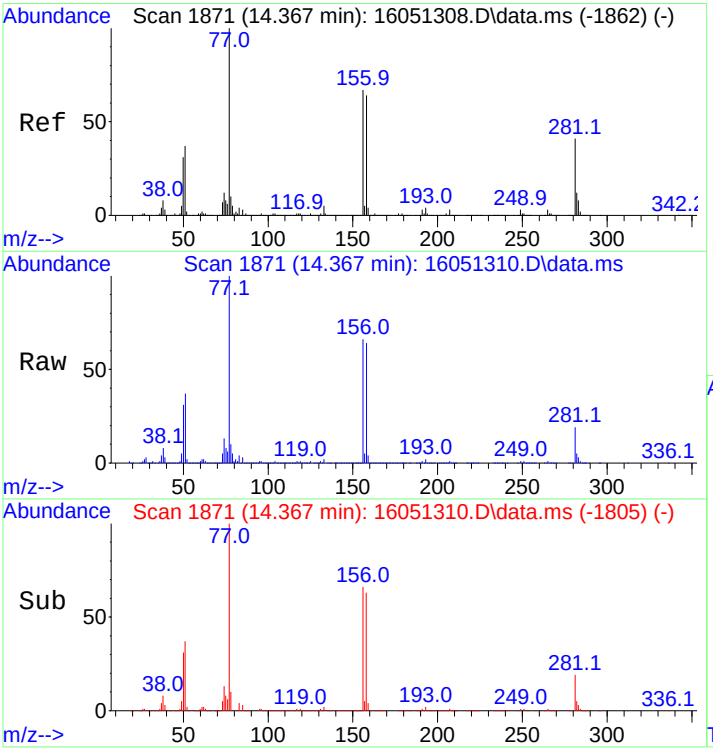


#61
1,3-Dichloropropane
Concen: 466.75 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 76 Resp: 516643

Ion	Ratio	Lower	Upper
76	100		
41	73.0	58.2	87.4
78	32.6	26.1	39.1

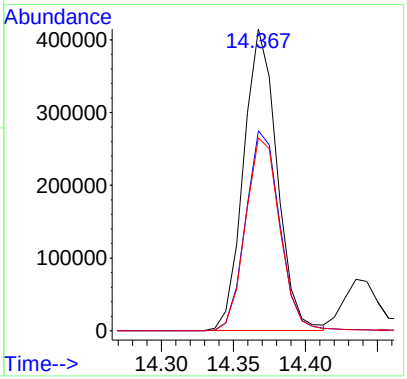


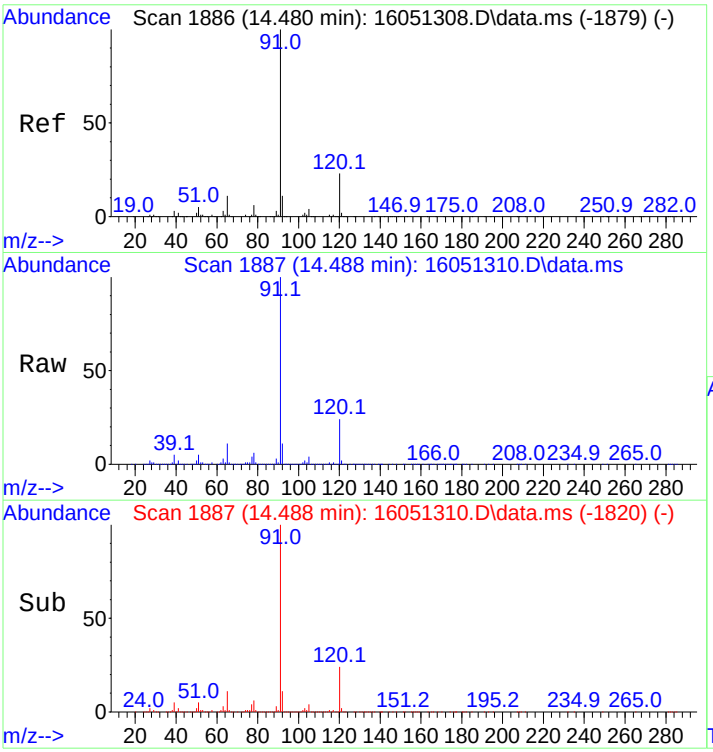


#62
Bromobenzene
Concen: 519.92 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 77 Resp: 667003

Ion	Ratio	Lower	Upper
77	100		
156	68.4	55.0	82.4
158	66.5	53.3	79.9

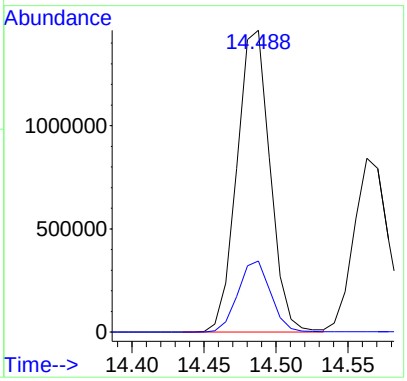


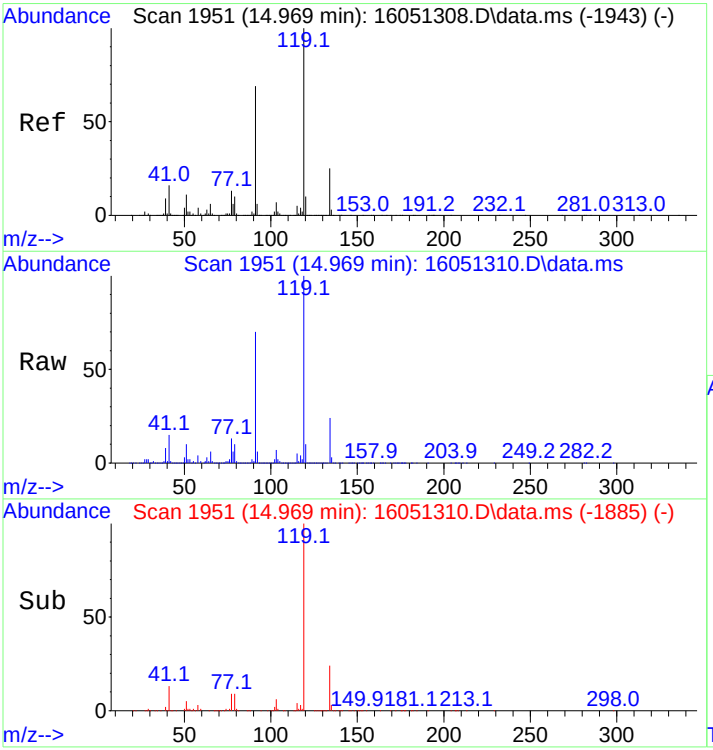


#63
n-Propylbenzene
Concen: 511.41 ng
RT: 14.488 min Scan# 1887
Delta R.T. 0.007 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 2333076

Ion	Ratio	Lower	Upper
91	100		
120	23.3	18.6	28.0

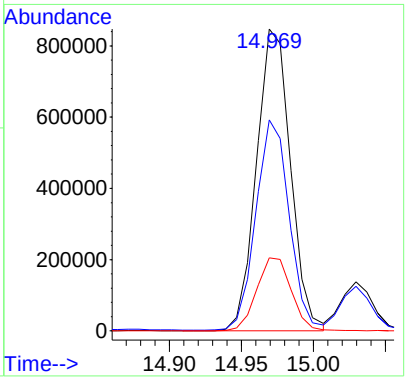


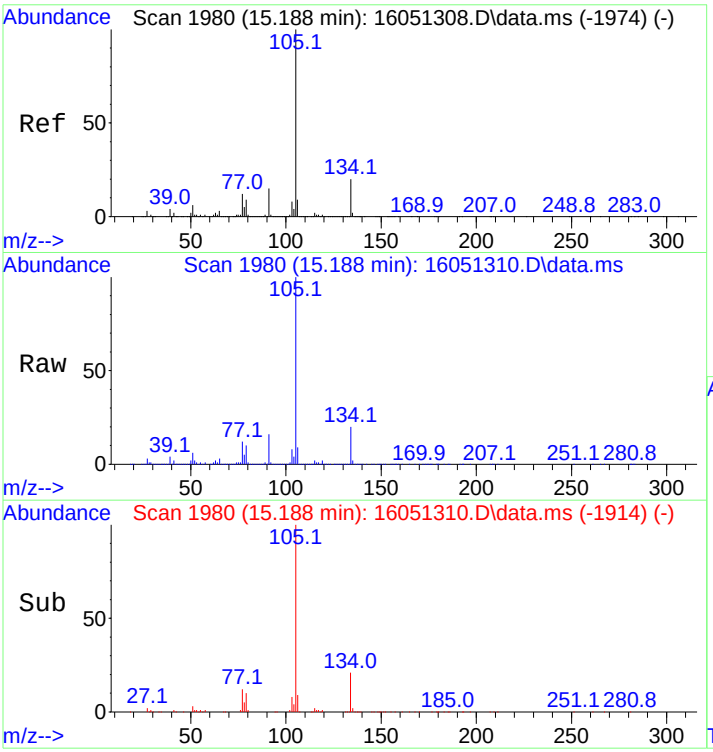


#64
tert-Butylbenzene
Concen: 508.20 ng
RT: 14.969 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:119 Resp: 1387882

Ion	Ratio	Lower	Upper
119	100		
91	68.1	54.0	81.0
134	24.8	19.9	29.9

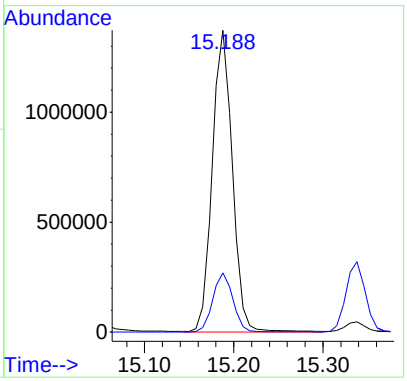


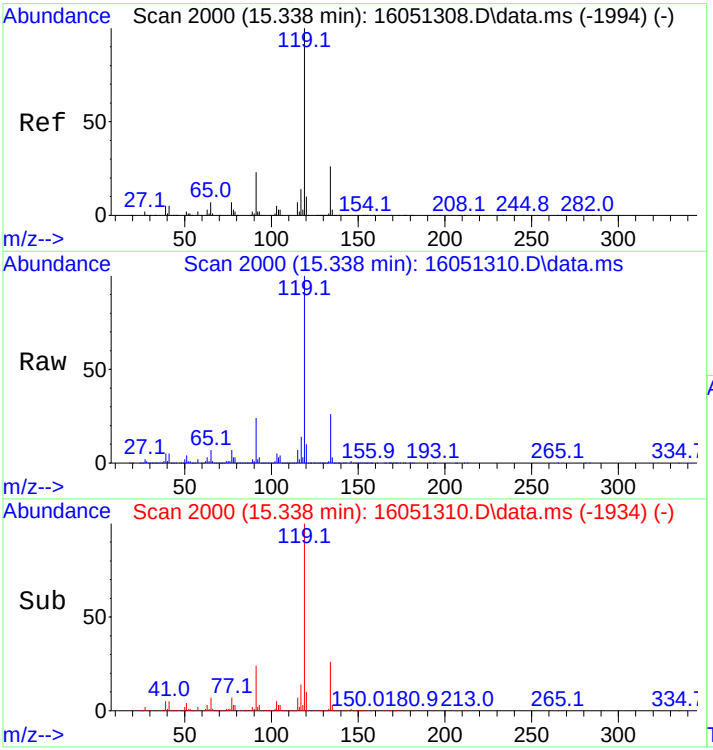


#65
sec-Butylbenzene
Concen: 508.97 ng
RT: 15.188 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:105 Resp: 2141959

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5

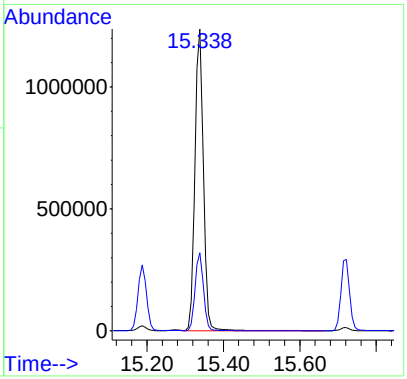


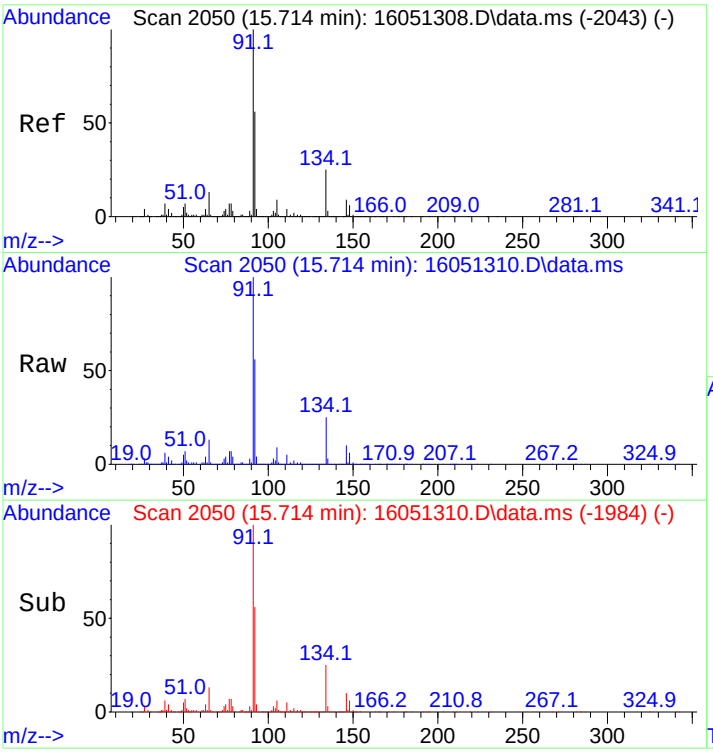


#66
p-Isopropyltoluene
Concen: 513.22 ng
RT: 15.338 min Scan# 2000
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:119 Resp: 1904120

Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.6	31.0

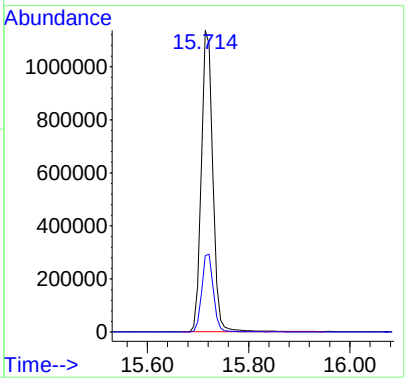


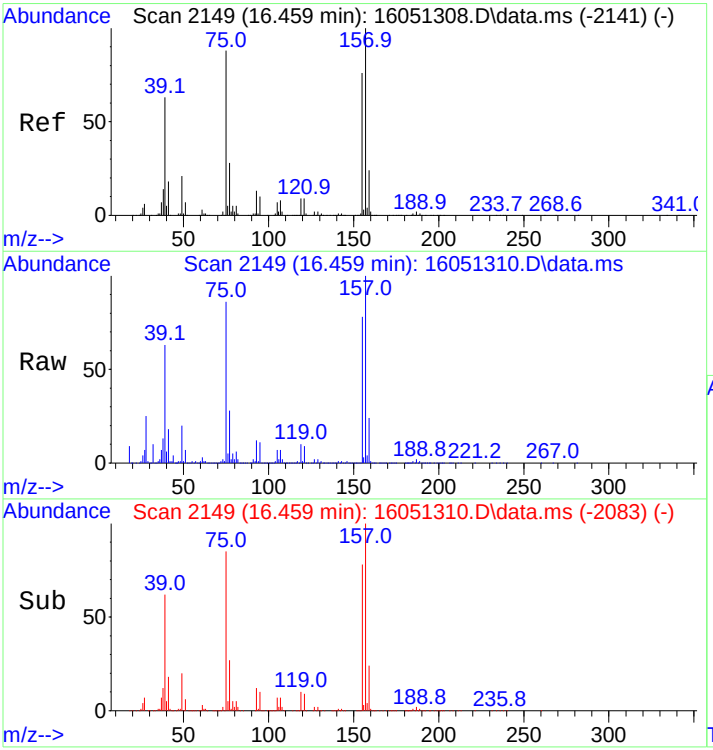


#67
n-Butylbenzene
Concen: 496.91 ng
RT: 15.714 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion: 91 Resp: 1782319

Ion	Ratio	Lower	Upper
91	100		
134	26.0	21.0	31.6

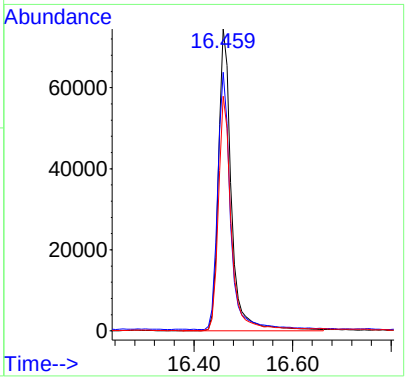




#68
1,2-Dibromo-3-chloropropane
Concen: 605.43 ng
RT: 16.459 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 16051310.D
Acq: 13 May 2016 4:35 pm

Tgt Ion:157 Resp: 136359

Ion	Ratio	Lower	Upper
157	100		
75	85.4	68.6	103.0
155	78.0	62.2	93.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051311.D
Acq On : 13 May 2016 5:20 pm
Operator : SG Instrument MSD-3
Sample : 1000NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:49:12 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:47:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.759	130	100087	250.00	ng	0.00
20) 1,4-Difluorobenzene	8.693	114	440680	250.00	ng	0.00
32) d5-Chlorobenzene	12.945	117	273888	250.00	ng	0.00
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.843	65	183061	306.68	ng	0.00
Spiked Amount 250.000			Recovery = 122.67%			
48) d10-Ethylbenzene(SPK)	13.020	98	287816	152.88	ng	0.00
Spiked Amount 200.000			Recovery = 76.44%			
49) d8-Toluene(SURR)	11.101	98	423267	260.86	ng	0.00
Spiked Amount 250.000			Recovery = 104.34%			
50) 4-Bromofluorobenzene(S...	14.239	95	152660	282.98	ng	0.00
Spiked Amount 250.000			Recovery = 113.19%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.724	85	435619	656.06	ng	99
3) Chloromethane	1.897	50	601093	763.32	ng	99
4) Vinyl Chloride	2.018	62	808050	853.79	ng	97
5) Bromomethane	2.371	94	326891	777.14	ng	99
6) Chloroethane	2.477	64	445483	904.04	ng	99
7) Trichlorofluoromethane	2.755	101	1176667	833.51	ng	100
8) 1,1-Dichloroethene	3.372	61	1550703	911.40	ng	99
12) Methylene Chloride	4.065	49	1001384	850.45	ng	100
13) trans,1,2-Dichloroethene	4.501	61	1168289	1034.43	ng	100
14) 1,1-Dichloroethane	5.284	63	1419127	1013.08	ng	100
16) cis,1,2-Dichloroethene	6.330	61	1296790	990.70	ng	100
18) Chloroform	6.977	83	1411674	1074.24	ng	100
19) 1,1,1-Trichloroethane	7.226	97	586951	781.11	ng	100
22) Carbon Tetrachloride	7.489	117	865321	1027.82	ng	100
23) Benzene	7.858	78	2516936	788.94	ng	100
24) 1,2-Dichloroethane	7.986	62	1100090	1204.56	ng	100
25) Trichloroethene	9.062	95	673798	942.07	ng	99
26) 1,2-Dichloropropane	9.521	63	682950	933.92	ng	99
27) Dibromomethane	9.656	93	494841	1208.10	ng	97
28) Bromodichloromethane	10.010	83	815292	1023.91	ng	99
29) cis,1,3-Dichloropropene	10.732	75	738135	904.87	ng	99
30) trans,1,3-Dichloropropene	11.568	75	560398	1010.05	ng	98
33) Toluene	11.199	91	2610914	961.09	ng	100
34) 1,1,2-Trichloroethane	11.824	83	490220	1044.15	ng	99
35) Tetrachloroethene	11.884	166	731947	1028.76	ng	99
37) Chlorodibromomethane	12.275	129	692848	1088.04	ng	100
38) Ethylene Dibromide	12.396	107	621385	1069.02	ng	99
39) Chlorobenzene	12.983	112	1692369	1013.82	ng	97
40) 1,1,1,2-Tetrachloroethane	13.096	131	604663	1020.61	ng	98
41) Ethylbenzene	13.111	91	2965021	960.74	ng	99
42) M&P-Xylene	13.261	91	4979931	1897.64	ng	98
43) O-Xylene	13.668	91	2661631	978.33	ng	99
44) Styrene	13.698	104	2105719	906.73	ng	98
45) Bromoform	13.878	173	575542	1146.80	ng	100
46) 1,1,2,2-Tetrachloroethane	14.390	83	865484	1091.22	ng	99
47) 1,2,3-Trichloropropane	14.443	75	727363	1110.17	ng	99
51) Isopropylbenzene	14.059	105	3138079	992.48	ng	99
52) 1,3,5-Trimethylbenzene	14.668	105	2902373	941.88	ng	97
53) 1,2,4-Trimethylbenzene	15.030	105	2948653	969.12	ng	98
54) 1,3-Dichlorobenzene	15.301	146	1608512	1012.98	ng	100
55) 1,4-Dichlorobenzene	15.398	146	1656010	986.65	ng	99
56) 1,2-Dichlorobenzene	15.737	146	1409587	938.55	ng	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051311.D
Acq On : 13 May 2016 5:20 pm
Operator :
Sample : 1000NG-VOSTSTD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:49:12 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:47:59 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	1,2,4-Trichlorobenzene	17.197	180	1324499	1039.78	ng	99
58)	Hexachlorobutadiene	17.317	225	705554	1053.74	ng	99
59)	Naphthalene	17.438	128	3259027	1042.34	ng	100
60)	1,1-Dichloropropene	7.519	75	888759	1021.00	ng	99
61)	1,3-Dichloropropane	12.019	76	1019563	1050.16	ng	100
62)	Bromobenzene	14.367	77	1157841	1028.97	ng	100
63)	n-Propylbenzene	14.488	91	3930003	982.15	ng	100
64)	tert-Butylbenzene	14.969	119	2341052	977.33	ng	98
65)	sec-Butylbenzene	15.188	105	3570293	967.23	ng	100
66)	p-Isopropyltoluene	15.338	119	3083078	947.42	ng	99
67)	n-Butylbenzene	15.714	91	2899368	921.59	ng	99
68)	1,2-Dibromo-3-chloropr...	16.460	157	214586	1086.24	ng	99

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

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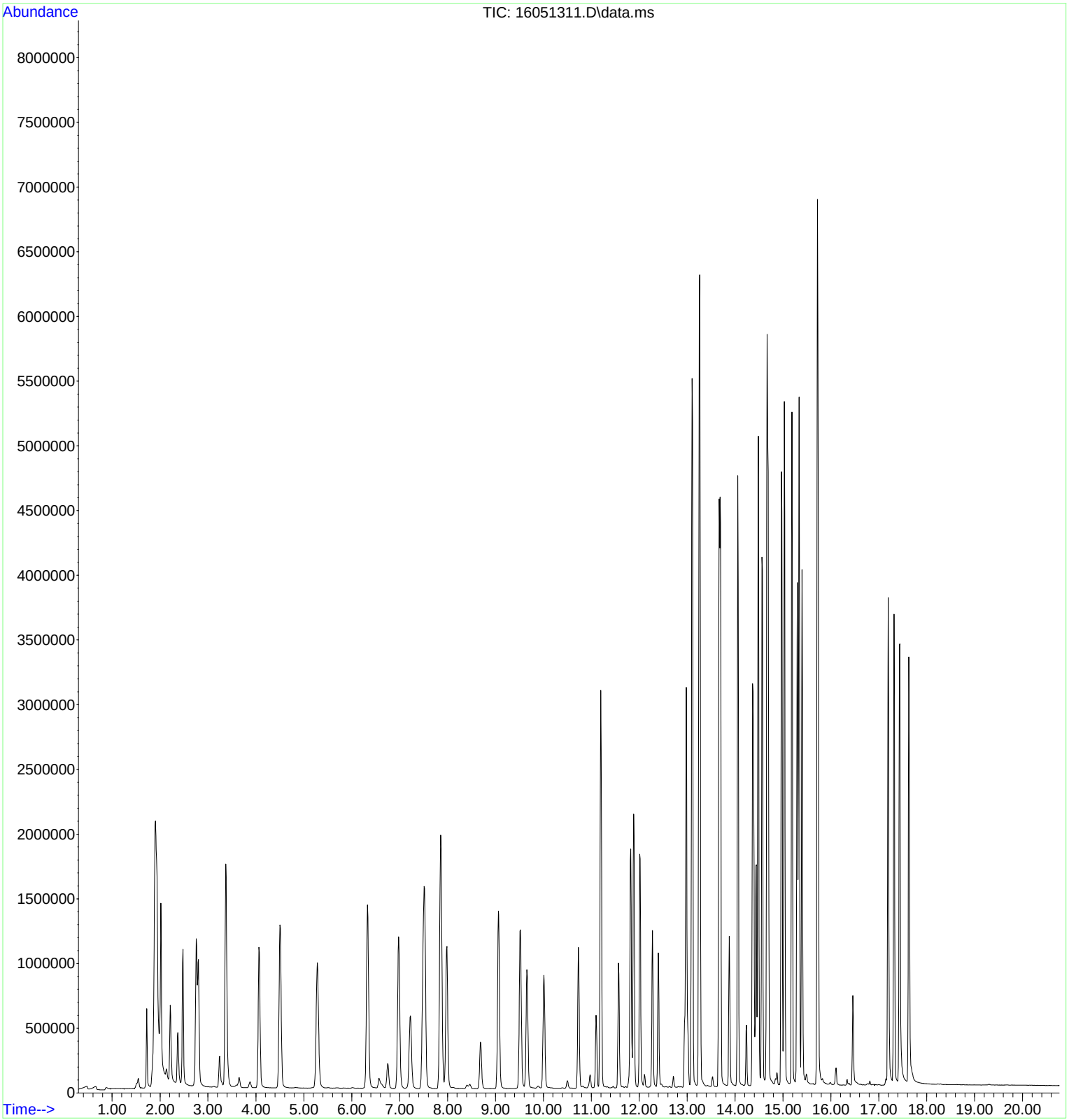
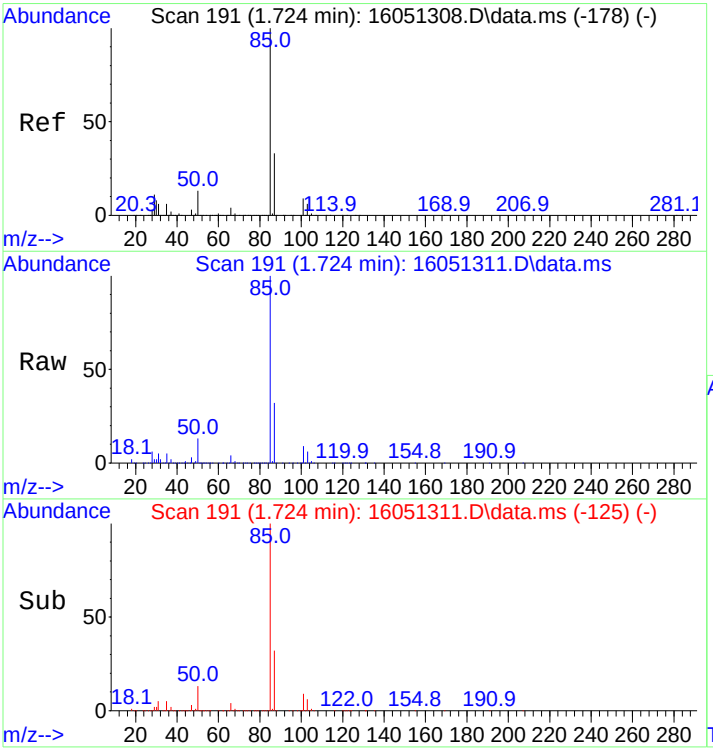
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051311.D
Acq On : 13 May 2016 5:20 pm
Operator : SG Instrument MSD-3
Sample : 1000NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 13:21:37 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

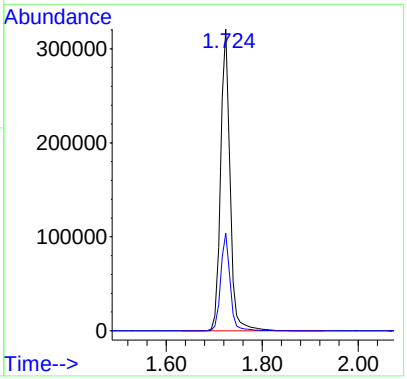


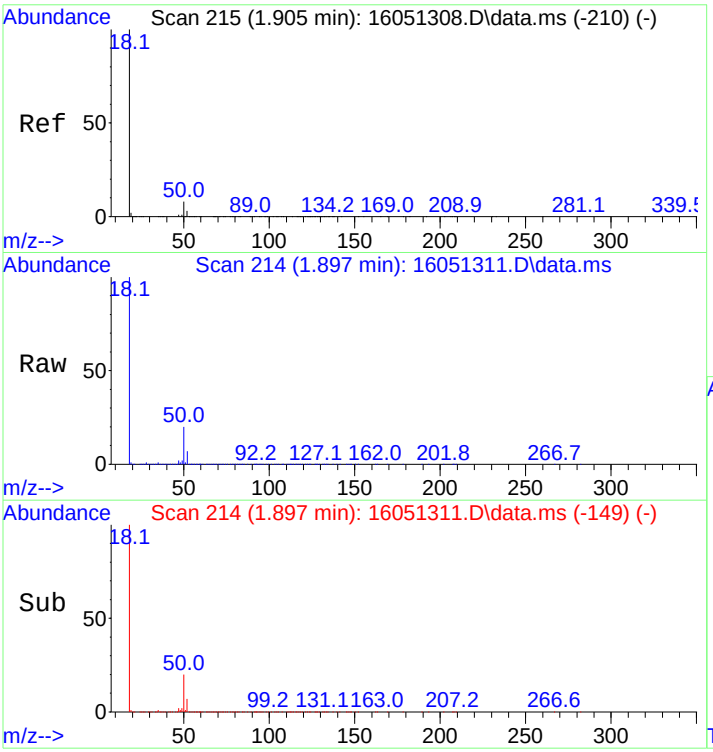


#2
Dichlorodifluoromethane
Concen: 656.06 ng
RT: 1.724 min Scan# 191
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 85 Resp: 435619

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.0	39.0

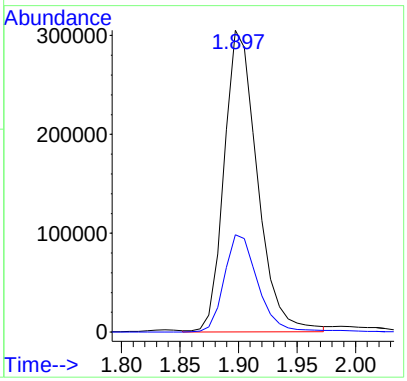


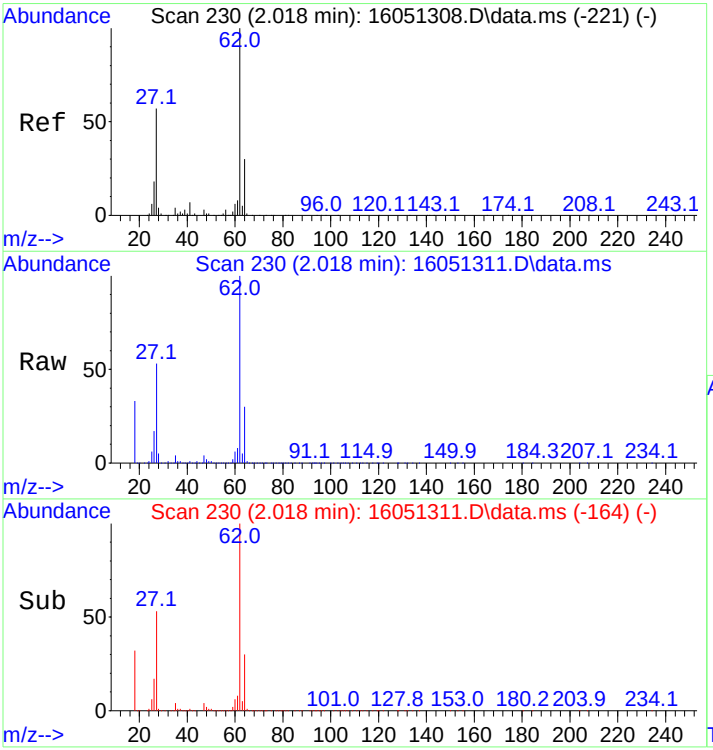


#3
Chloromethane
Concen: 763.32 ng
RT: 1.897 min Scan# 214
Delta R.T. -0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 50 Resp: 601093

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.0	39.0

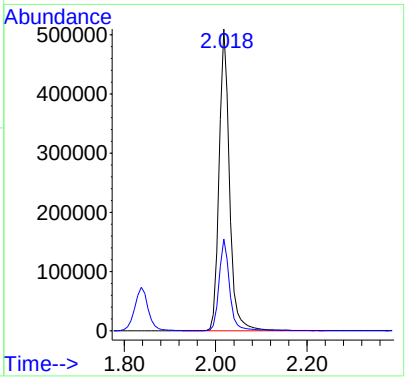


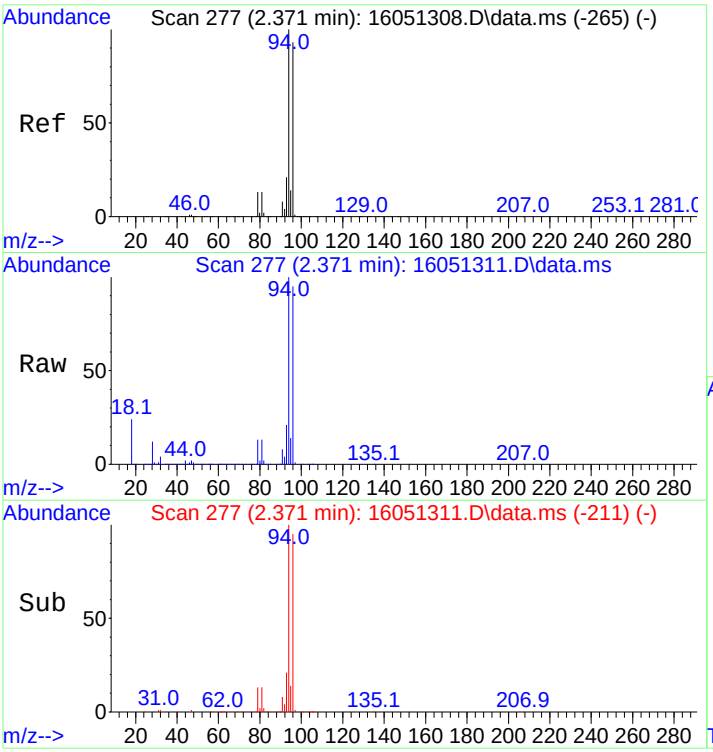


#4
Vinyl Chloride
Concen: 853.79 ng
RT: 2.018 min Scan# 230
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 62 Resp: 808050

Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.7	38.5

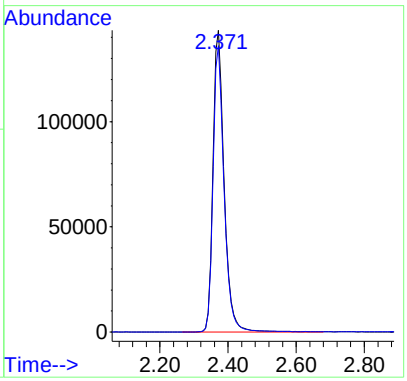


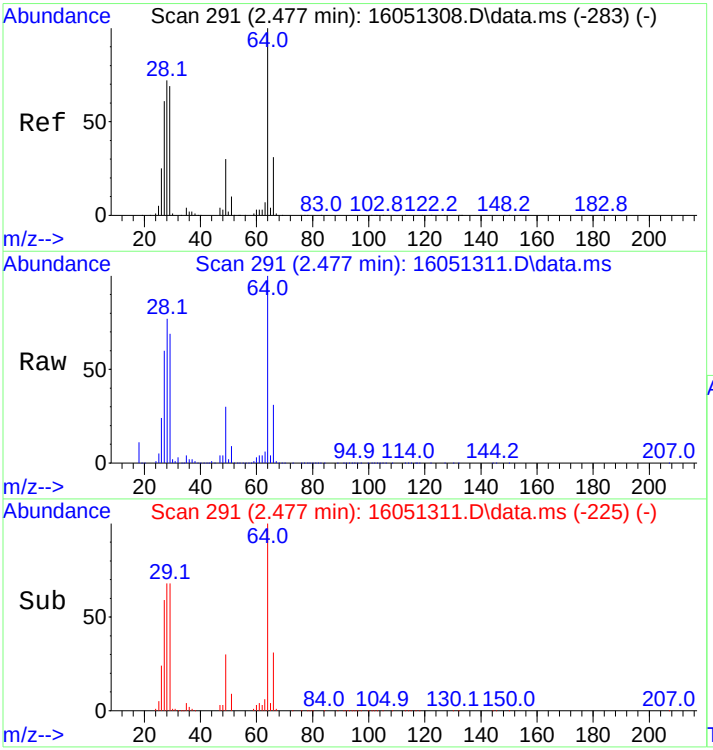


#5
Bromomethane
Concen: 777.14 ng
RT: 2.371 min Scan# 277
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 94 Resp: 326891

Ion	Ratio	Lower	Upper
94	100		
96	93.9	74.5	111.7

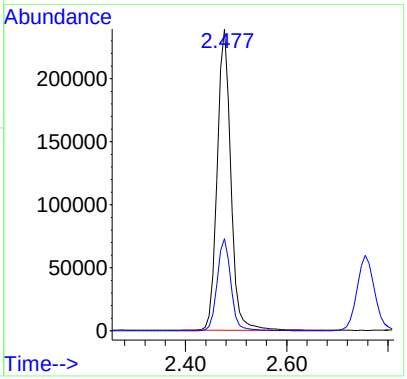


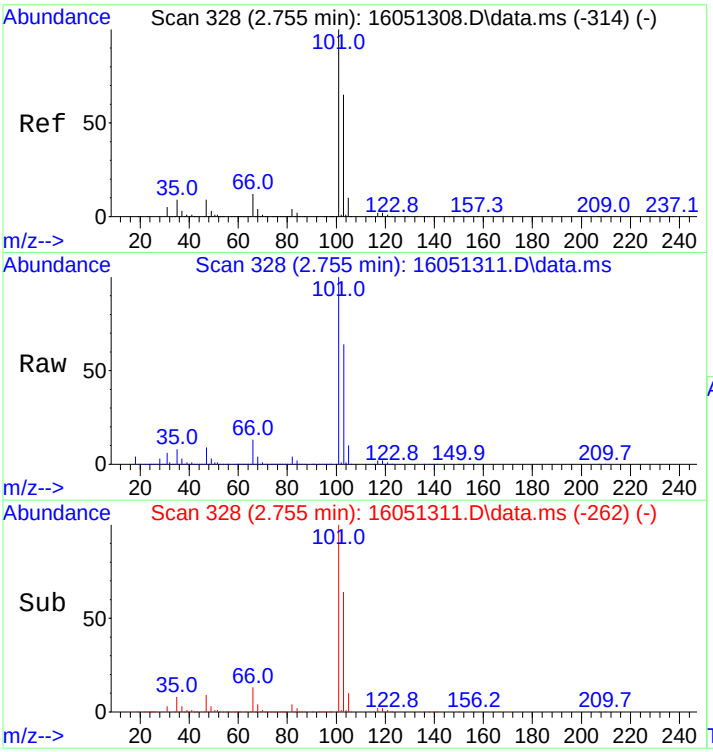


#6
Chloroethane
Concen: 904.04 ng
RT: 2.477 min Scan# 291
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 64 Resp: 445483

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4

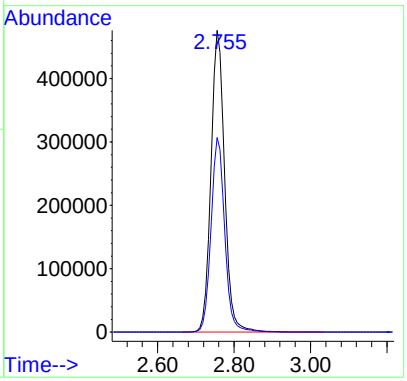


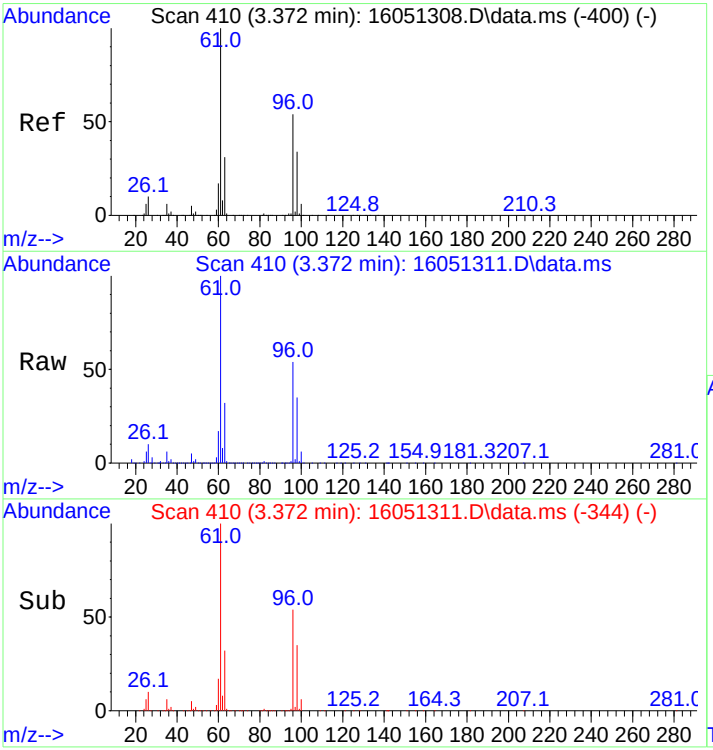


#7
Trichlorofluoromethane
Concen: 833.51 ng
RT: 2.755 min Scan# 328
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:101 Resp: 1176667

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.8	77.6

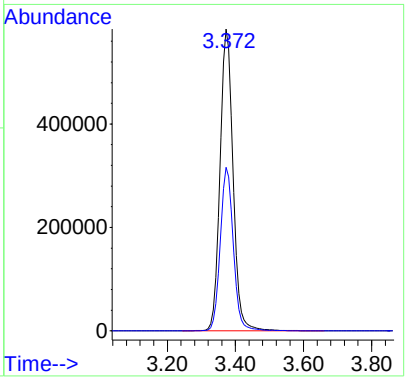


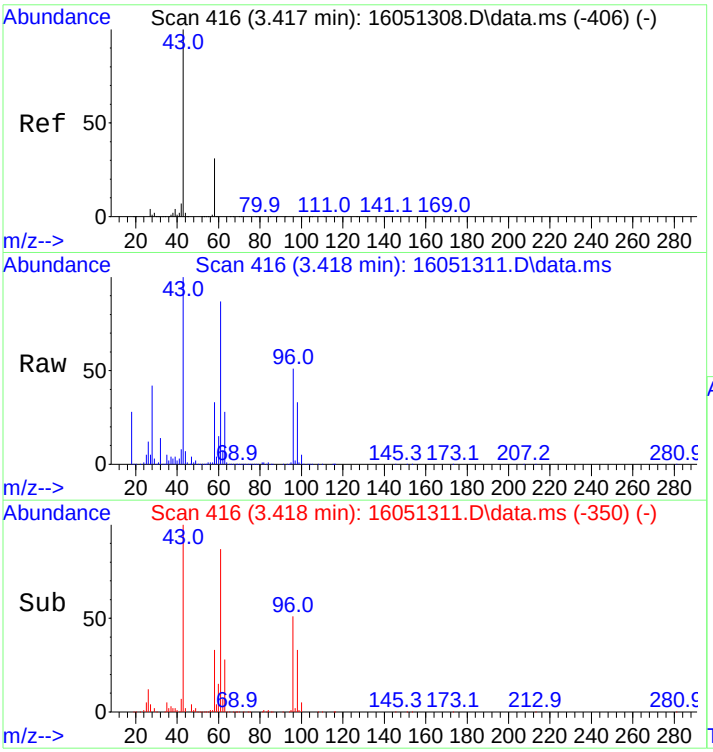


#8
1,1-Dichloroethene
Concen: 911.40 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 61 Resp: 1550703

Ion	Ratio	Lower	Upper
61	100		
96	54.2	44.1	66.1

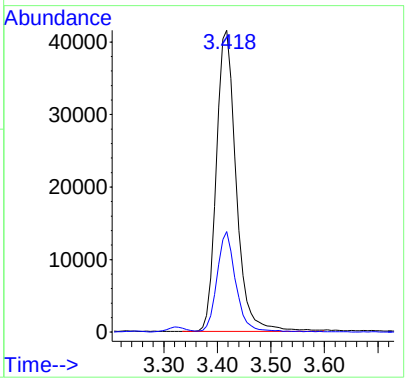


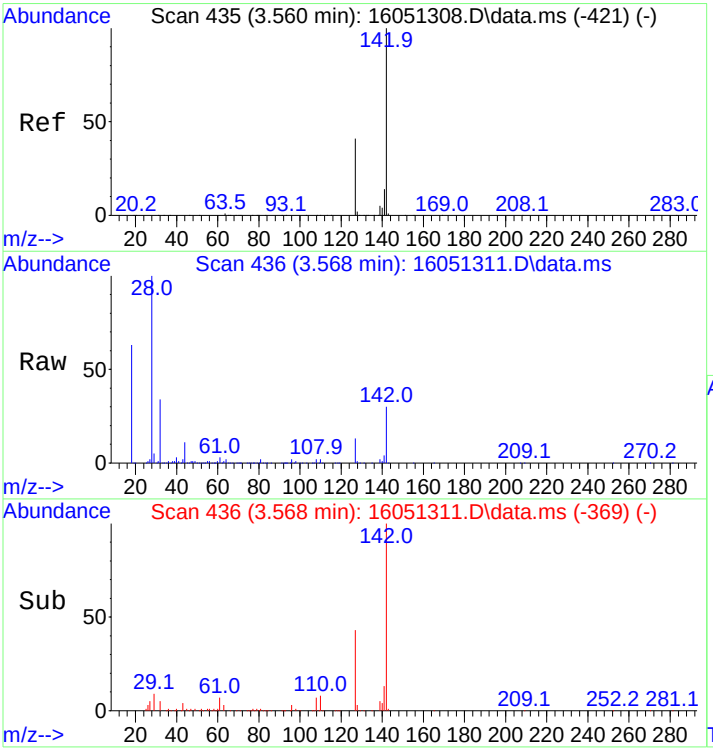


#9
Acetone
Concen: 169.02 ng
RT: 3.418 min Scan# 416
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 43 Resp: 107033

Ion	Ratio	Lower	Upper
43	100		
58	31.8	24.7	37.1

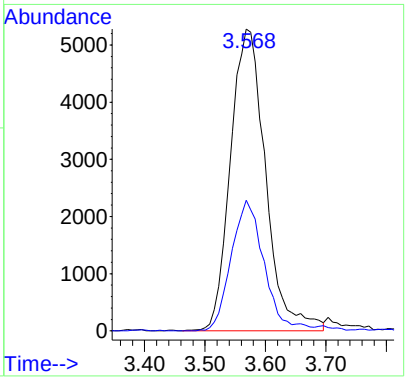


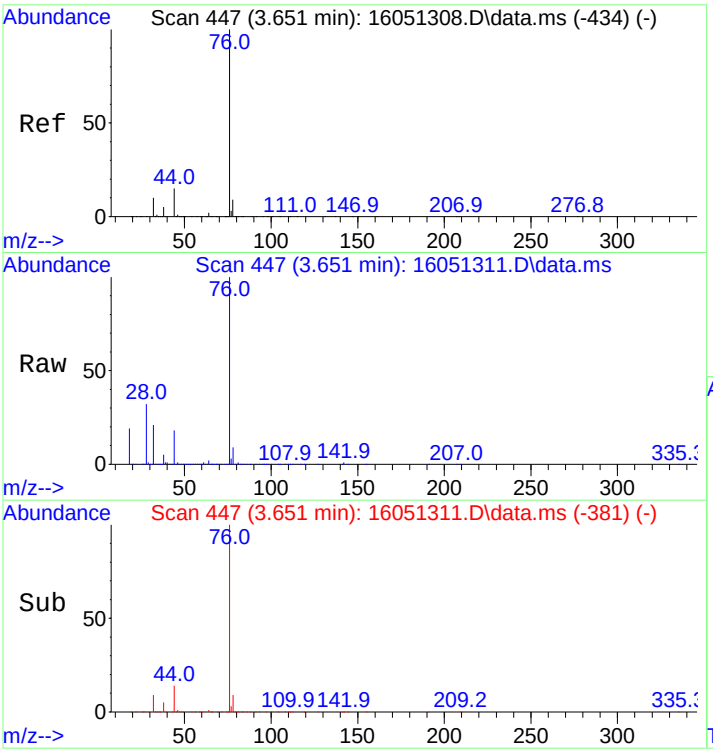


#10
Iodomethane
Concen: 31.63 ng
RT: 3.568 min Scan# 436
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:142 Resp: 21345

Ion	Ratio	Lower	Upper
142	100		
127	40.4	32.8	49.2

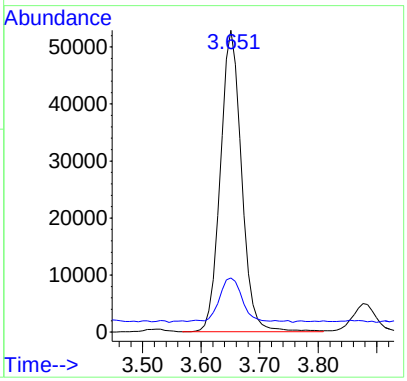


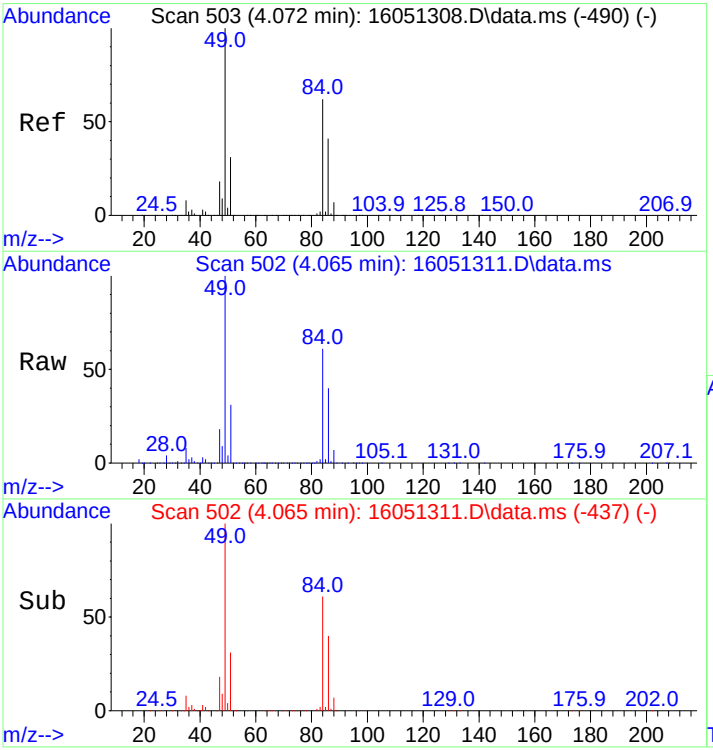


#11
Carbon disulfide
Concen: 50.02 ng
RT: 3.651 min Scan# 447
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 76 Resp: 133219

Ion	Ratio	Lower	Upper
76	100		
44	16.4	12.2	18.4

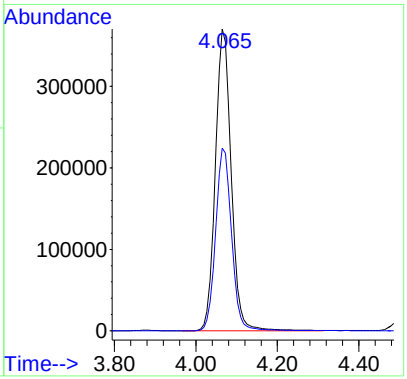


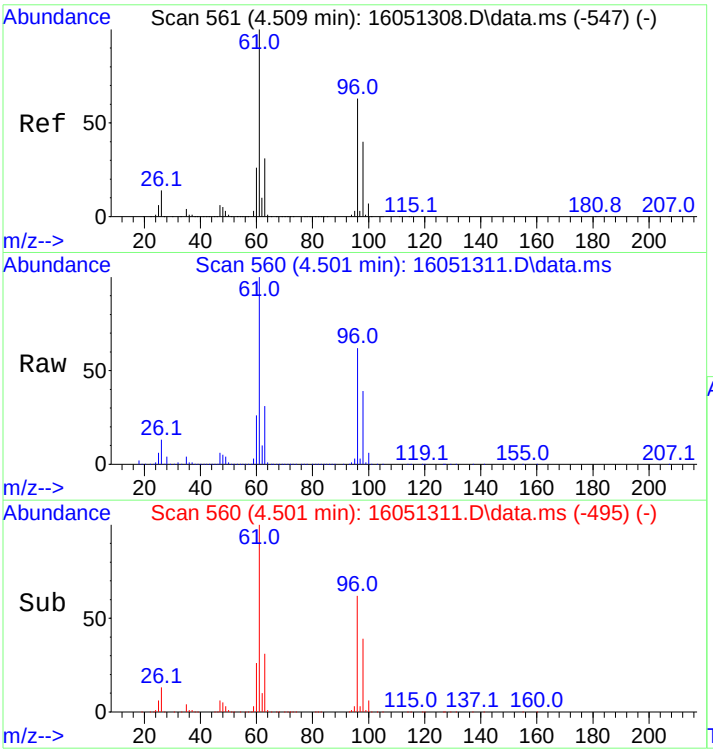


#12
Methylene Chloride
Concen: 850.45 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.007 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 49 Resp: 1001384

Ion	Ratio	Lower	Upper
49	100		
84	60.8	48.4	72.6

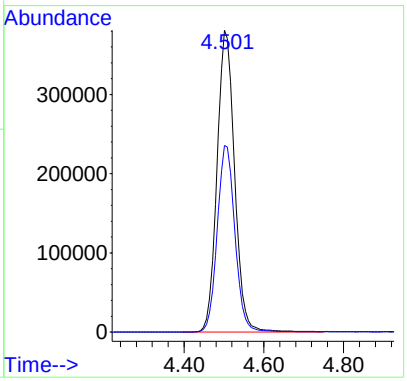


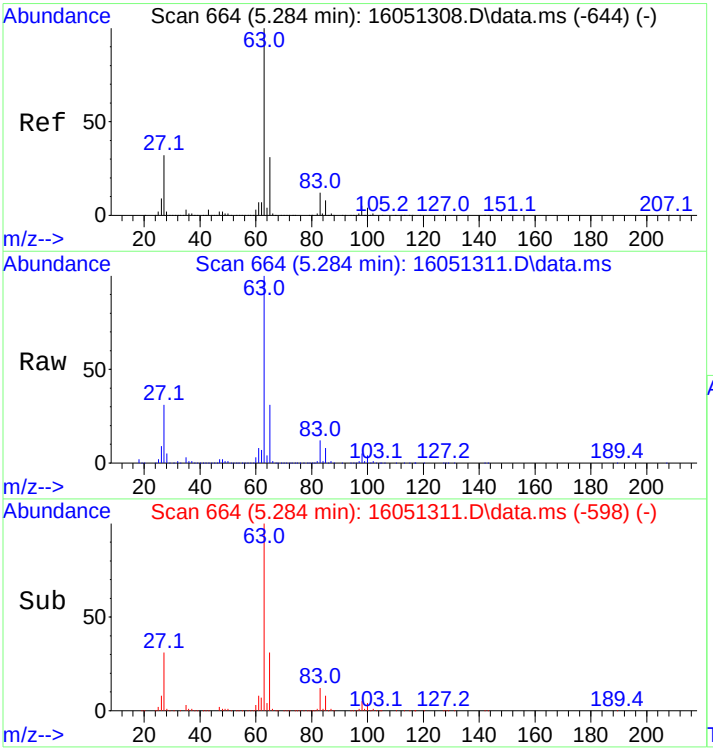


#13
trans,1,2-Dichloroethene
Concen: 1034.43 ng
RT: 4.501 min Scan# 560
Delta R.T. -0.007 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 61 Resp: 1168289

Ion	Ratio	Lower	Upper
61	100		
96	62.4	50.2	75.4

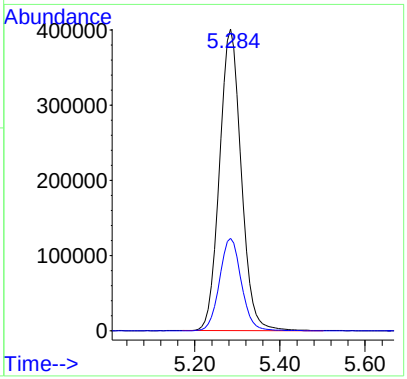


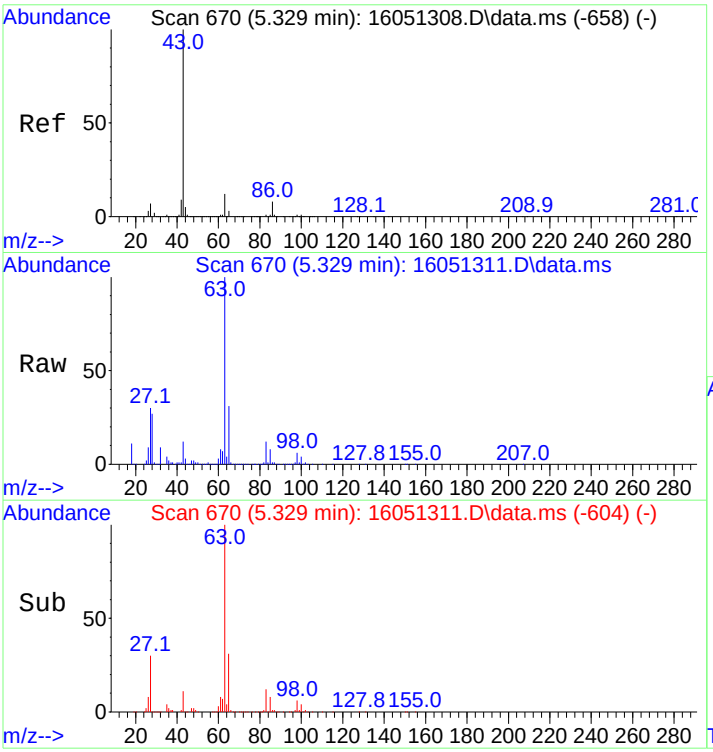


#14
1,1-Dichloroethane
Concen: 1013.08 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 63 Resp: 1419127

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

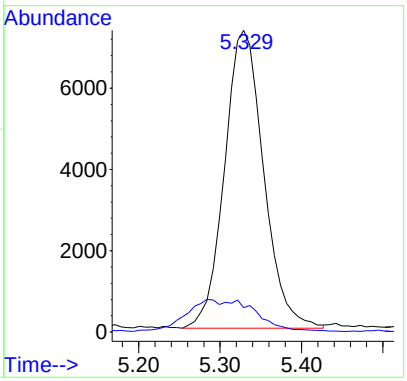


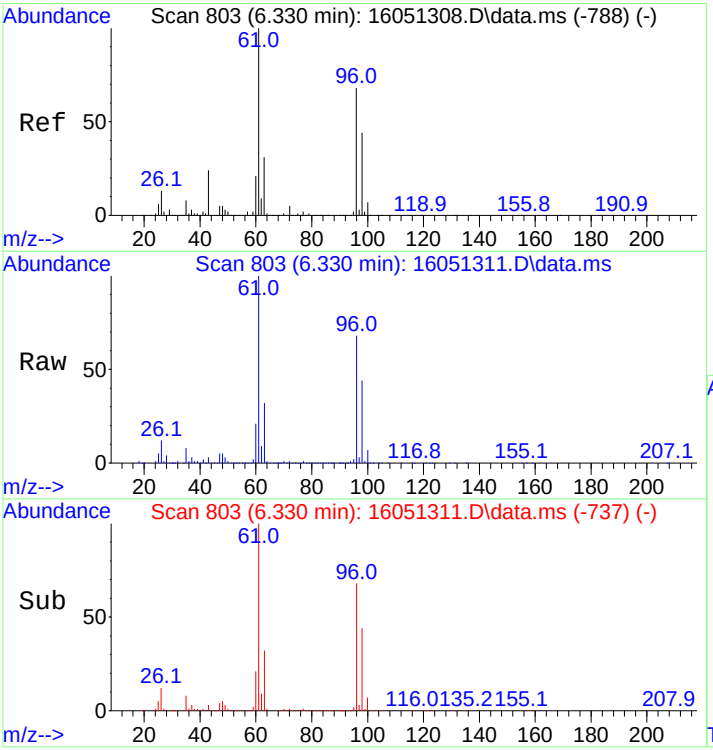


#15
Vinyl Acetate
Concen: 34.33 ng
RT: 5.329 min Scan# 670
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 43 Resp: 24502

Ion	Ratio	Lower	Upper
43	100		
86	9.3	6.6	9.8

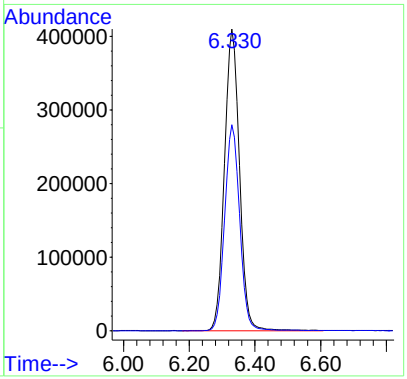


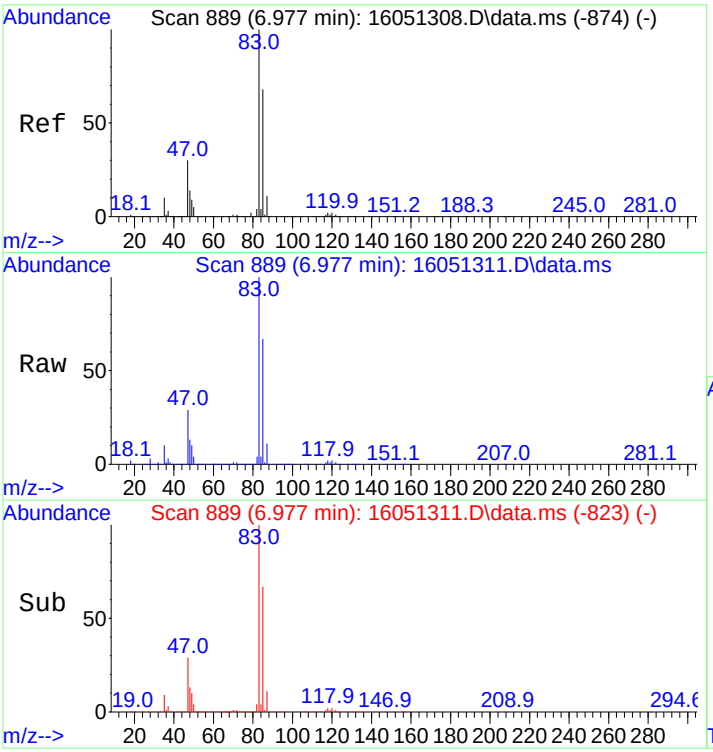


#16
cis,1,2-Dichloroethene
Concen: 990.70 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 61 Resp: 1296790

Ion	Ratio	Lower	Upper
61	100		
96	68.5	54.6	81.8

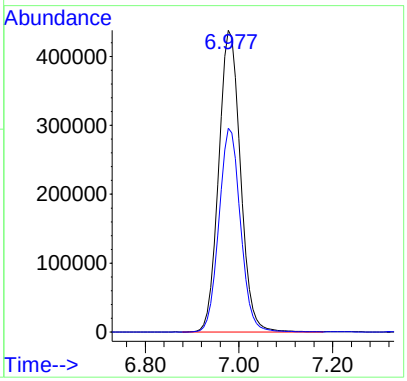


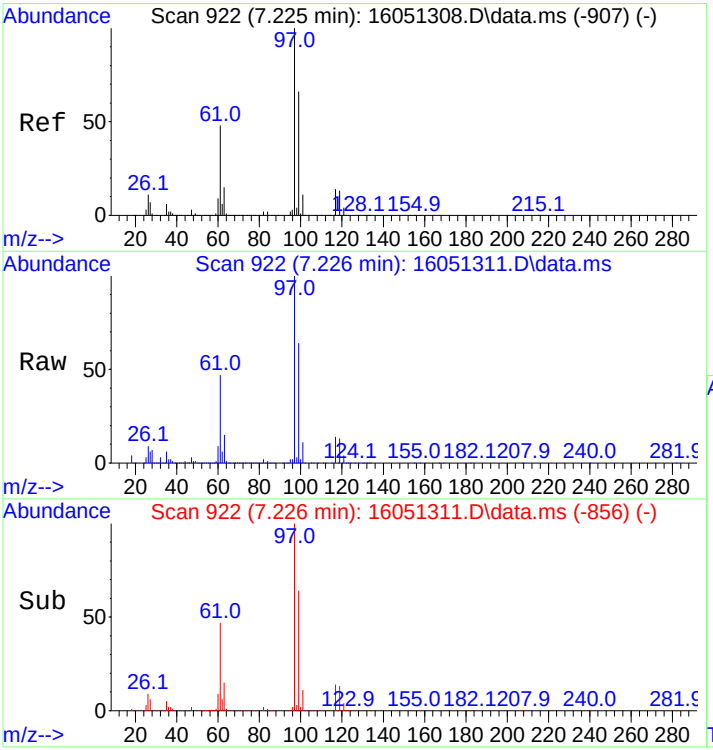


#18
Chloroform
Concen: 1074.24 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 1411674

Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.9	80.9

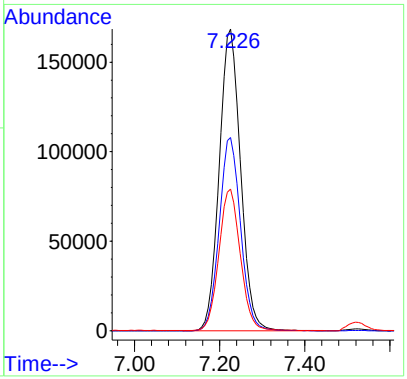


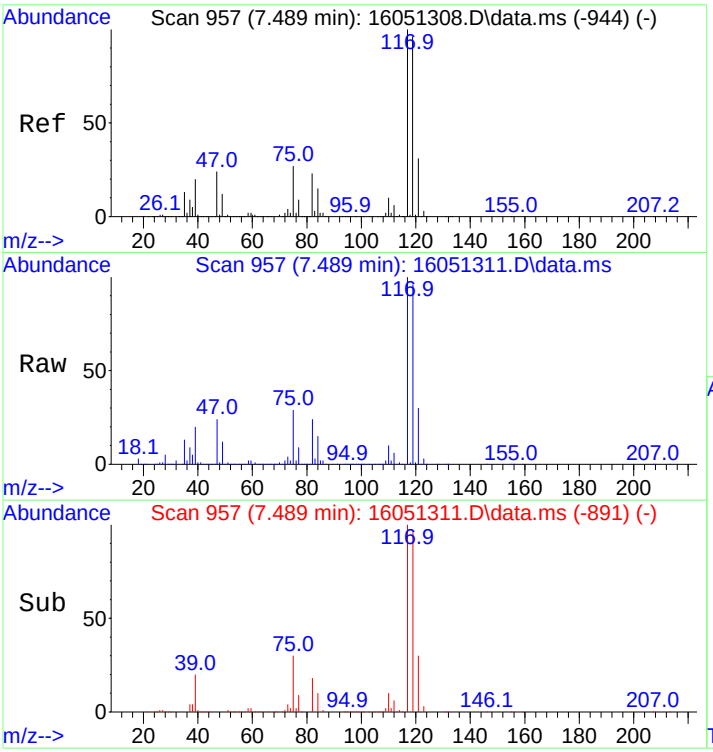


#19
1,1,1-Trichloroethane
Concen: 781.11 ng
RT: 7.226 min Scan# 922
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 97 Resp: 586951

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.3	76.9
61	47.3	37.6	56.4

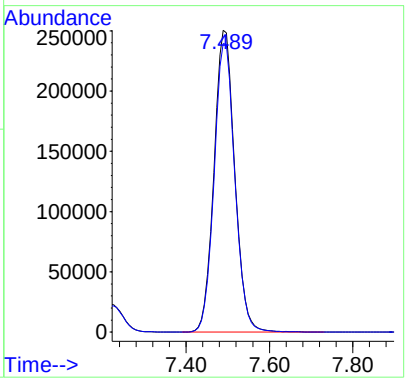


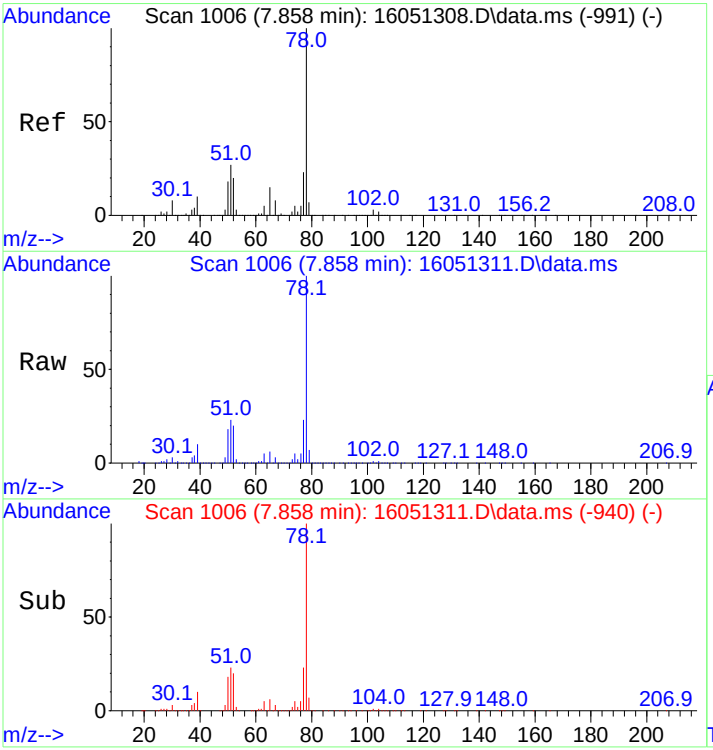


#22
Carbon Tetrachloride
Concen: 1027.82 ng
RT: 7.489 min Scan# 957
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:117 Resp: 865321

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.0	115.4

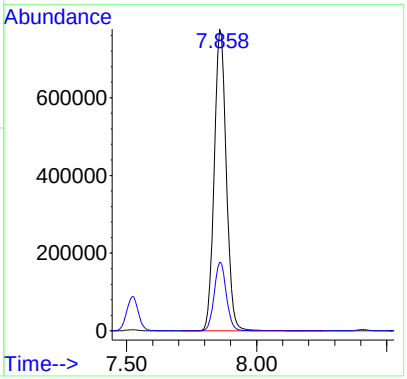


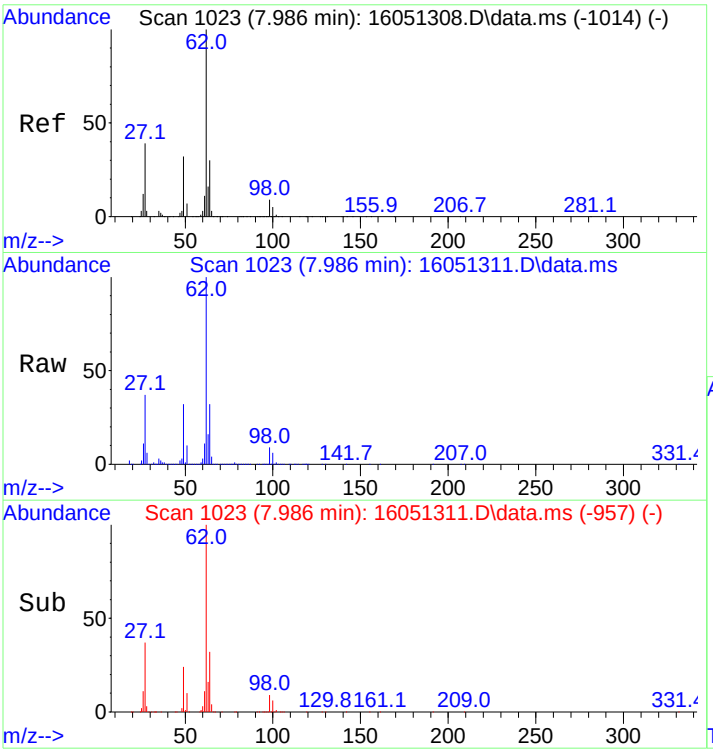


#23
Benzene
Concen: 788.94 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 78 Resp: 2516936

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

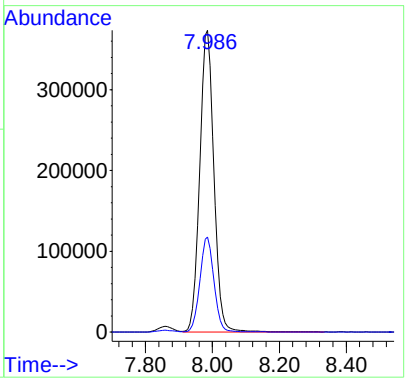


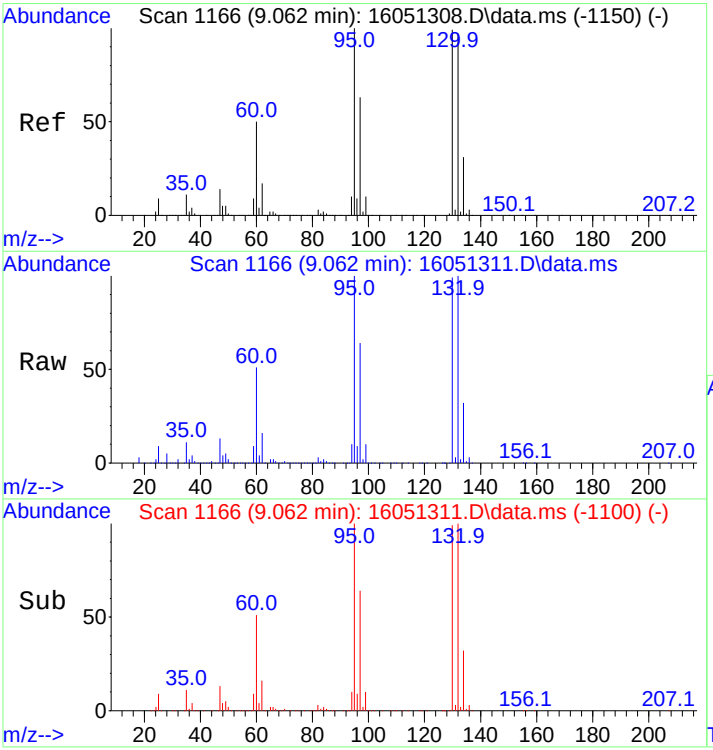


#24
1,2-Dichloroethane
Concen: 1204.56 ng
RT: 7.986 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 62 Resp: 1100090

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.8	37.2

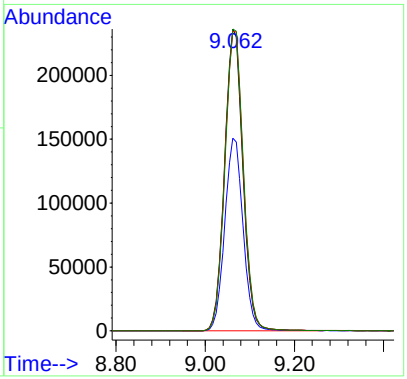


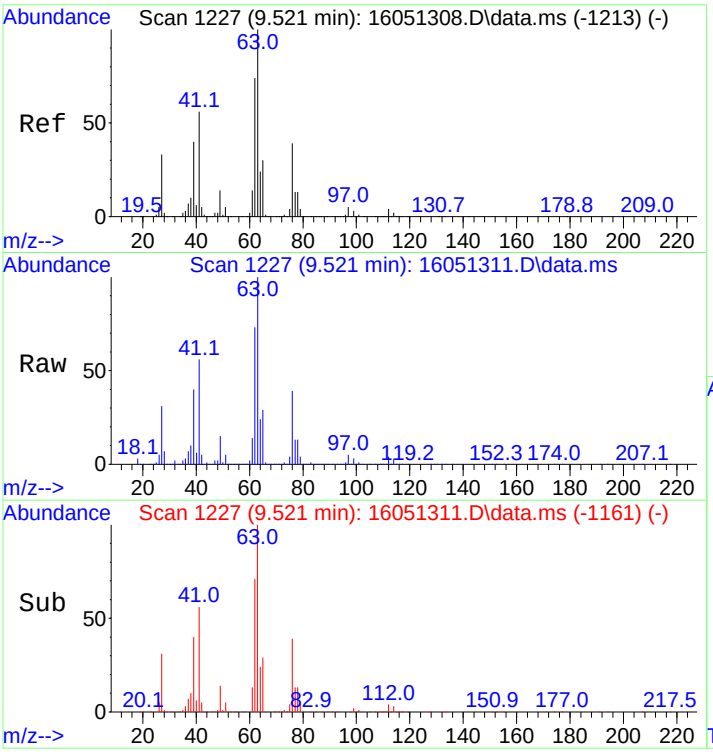


#25
Trichloroethene
Concen: 942.07 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 95 Resp: 673798

Ion	Ratio	Lower	Upper
95	100		
97	64.0	51.8	77.8
130	100.8	81.9	122.9
132	100.9	81.2	121.8

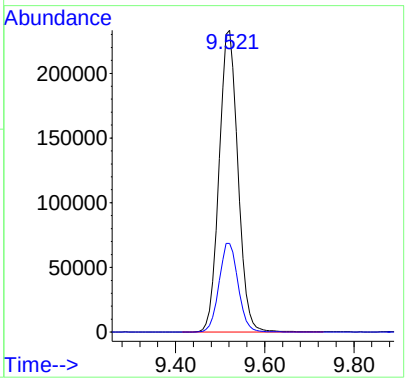


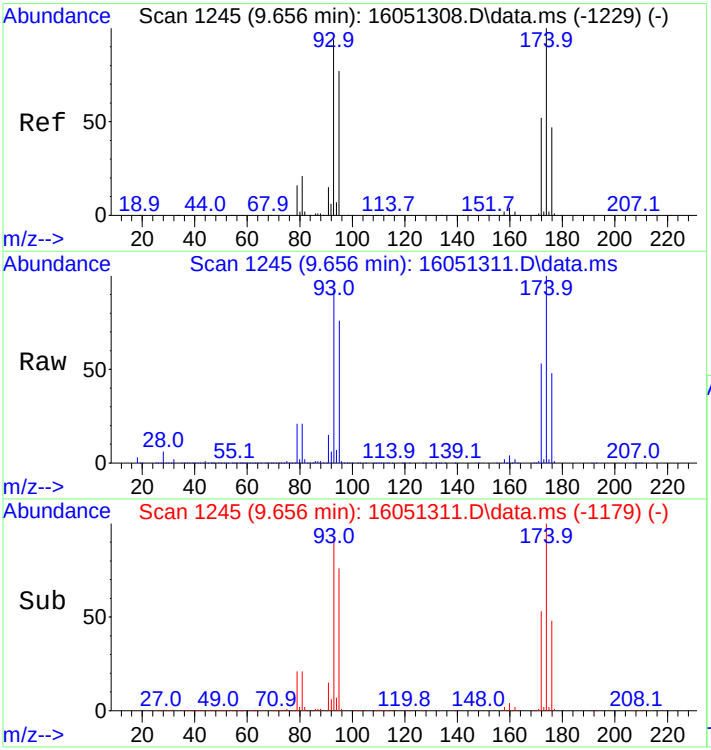


#26
1,2-Dichloropropane
Concen: 933.92 ng
RT: 9.521 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 63 Resp: 682950

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.2	36.2

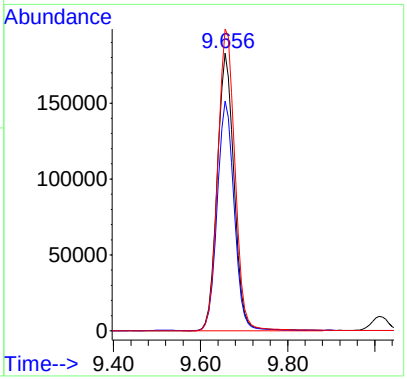


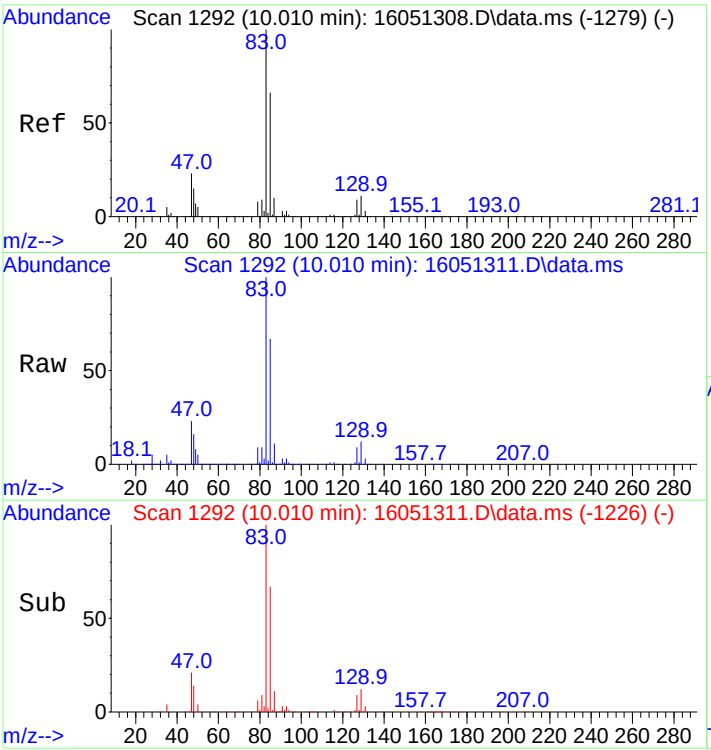


#27
Dibromomethane
Concen: 1208.10 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 93 Resp: 494841

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	110.8	85.5	128.3

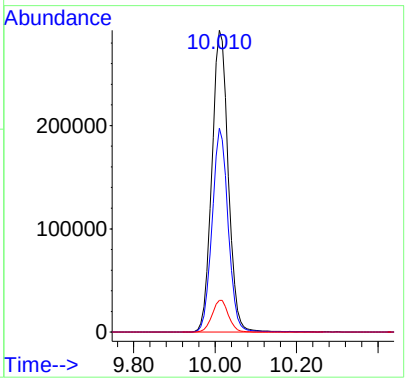


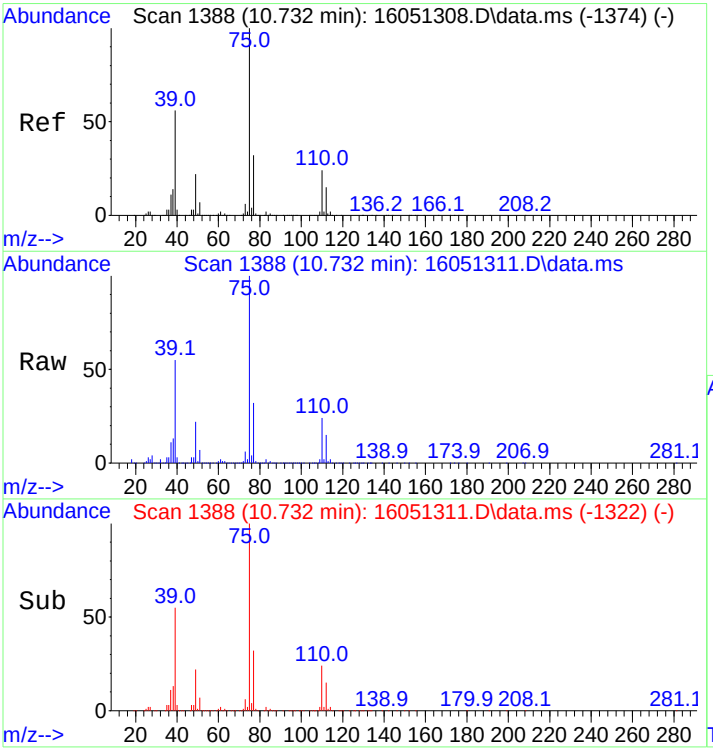


#28
Bromodichloromethane
Concen: 1023.91 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 815292

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.5	78.7
87	10.6	8.3	12.5

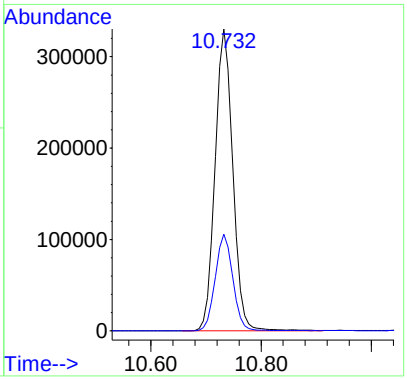


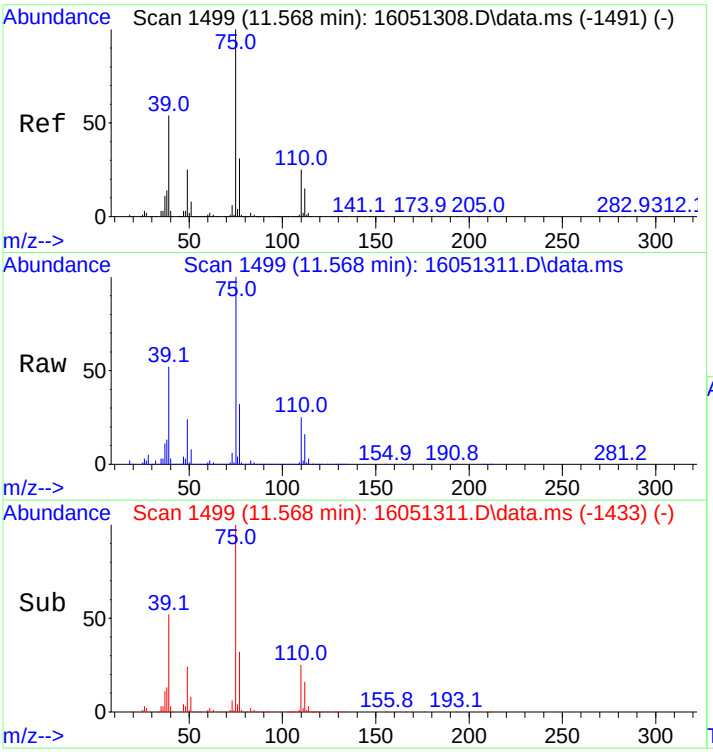


#29
cis,1,3-Dichloropropene
Concen: 904.87 ng
RT: 10.732 min Scan# 1388
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 738135

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4

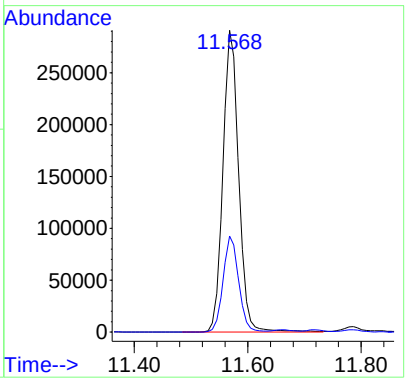


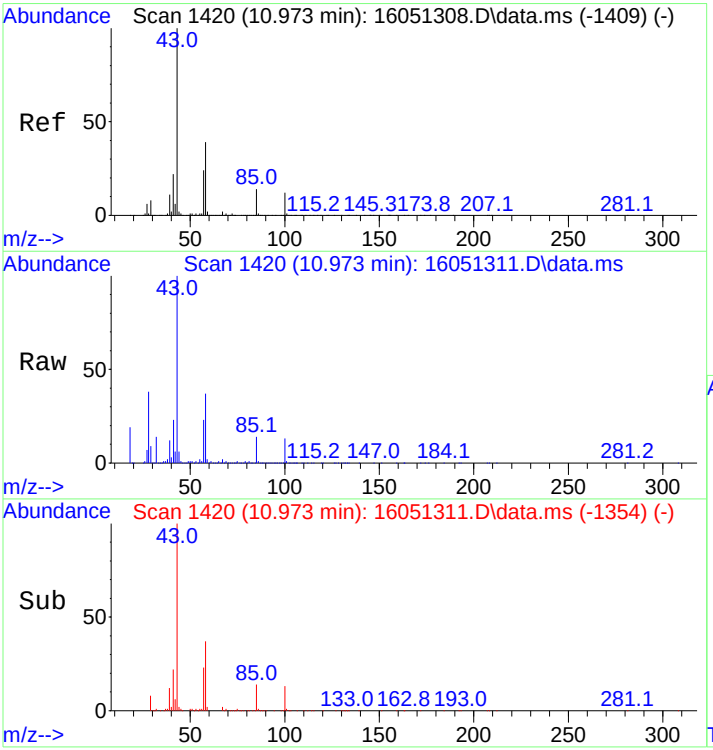


#30
trans,1,3-Dichloropropene
Concen: 1010.05 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 560398

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

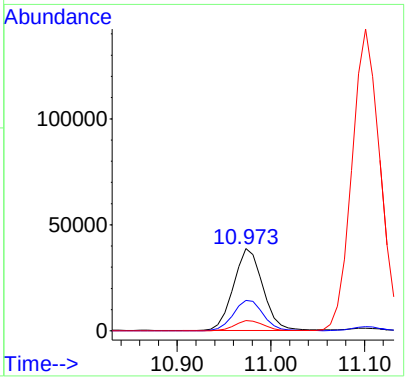


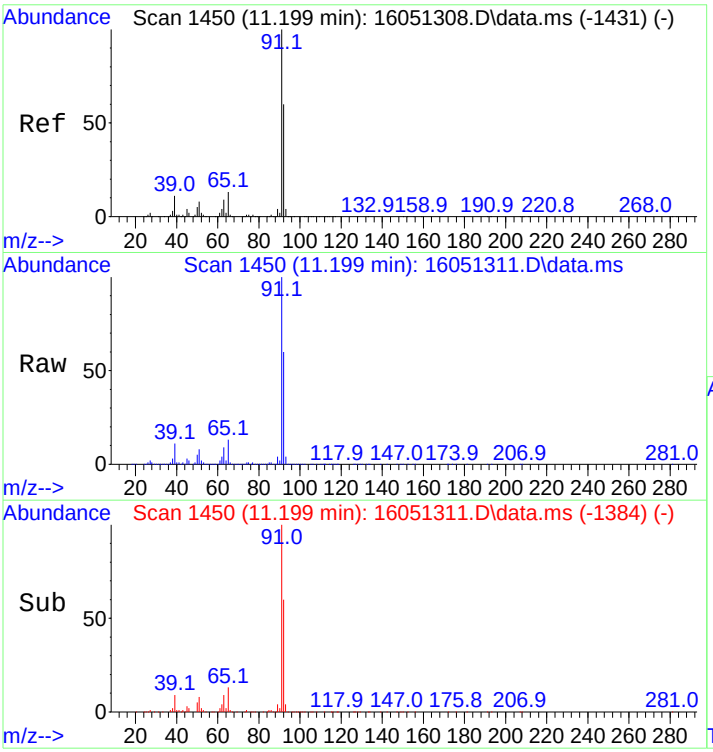


#31
4-Methyl-2-Pentanone
Concen: 78.37 ng
RT: 10.973 min Scan# 1420
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 43 Resp: 84392

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.3	46.9
100	12.6	10.2	15.2

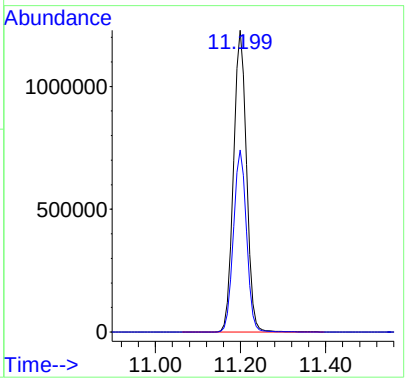


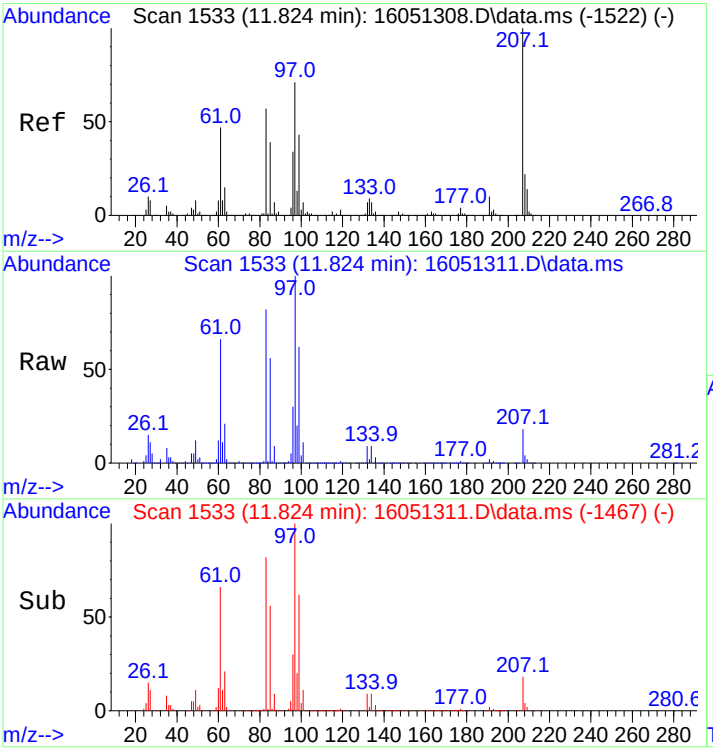


#33
Toluene
Concen: 961.09 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2610914

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.6	73.0

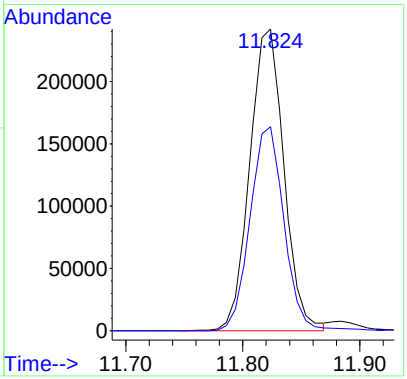


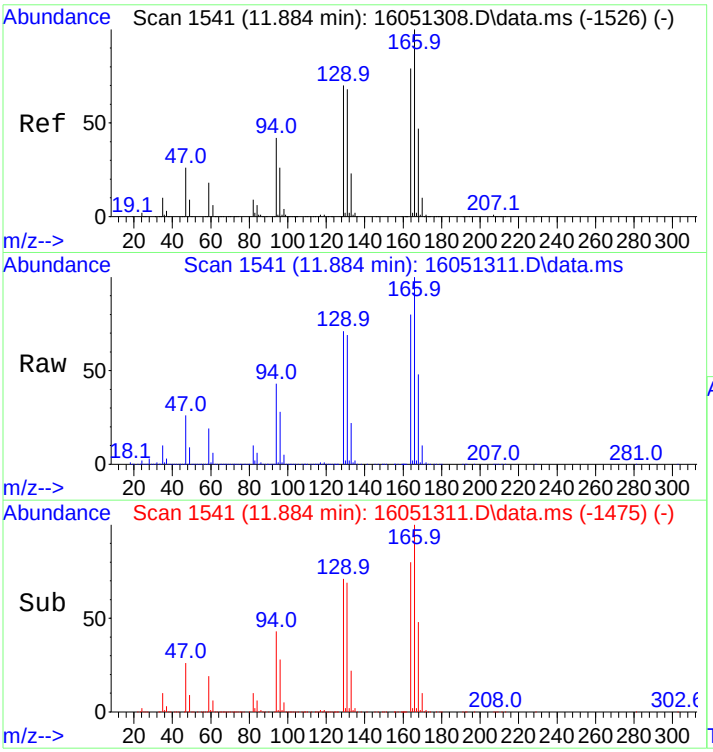


#34
1,1,2-Trichloroethane
Concen: 1044.15 ng
RT: 11.824 min Scan# 1533
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 490220

Ion	Ratio	Lower	Upper
83	100		
85	67.5	54.7	82.1

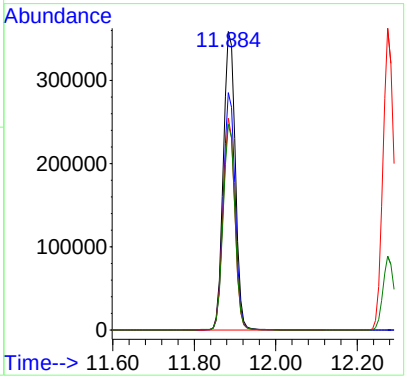


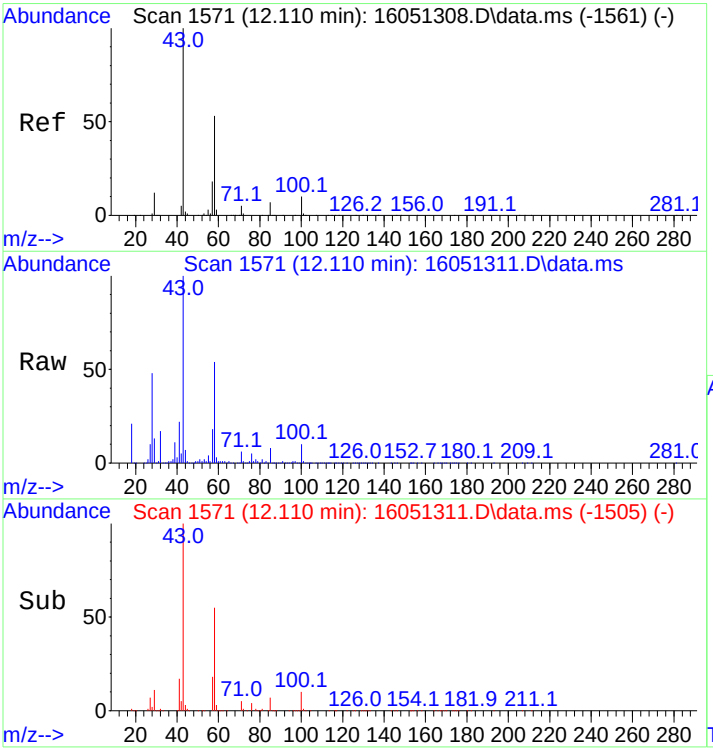


#35
Tetrachloroethene
Concen: 1028.76 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:166 Resp: 731947

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.2	94.8
129	69.9	55.5	83.3
131	68.3	55.2	82.8

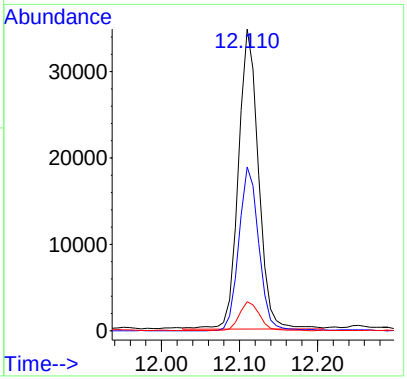


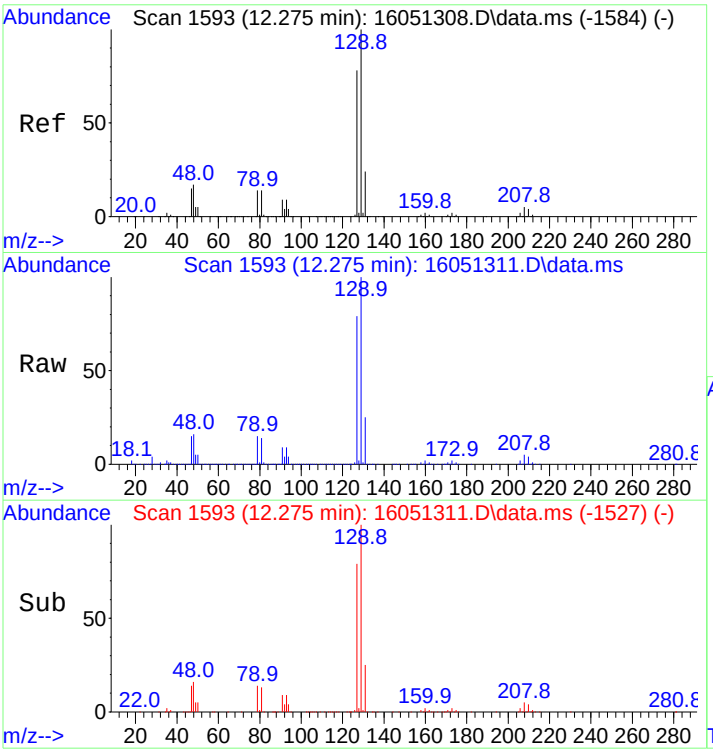


#36
2-Hexanone
Concen: 89.18 ng
RT: 12.110 min Scan# 1571
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 43 Resp: 62151

Ion	Ratio	Lower	Upper
43	100		
58	54.6	43.6	65.4
100	10.0	7.8	11.8

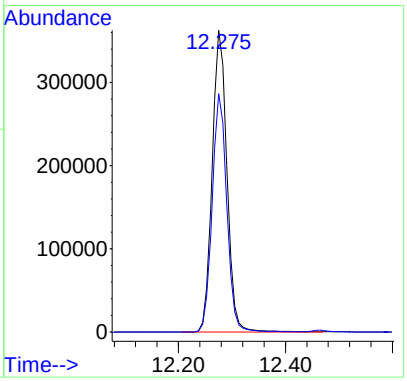


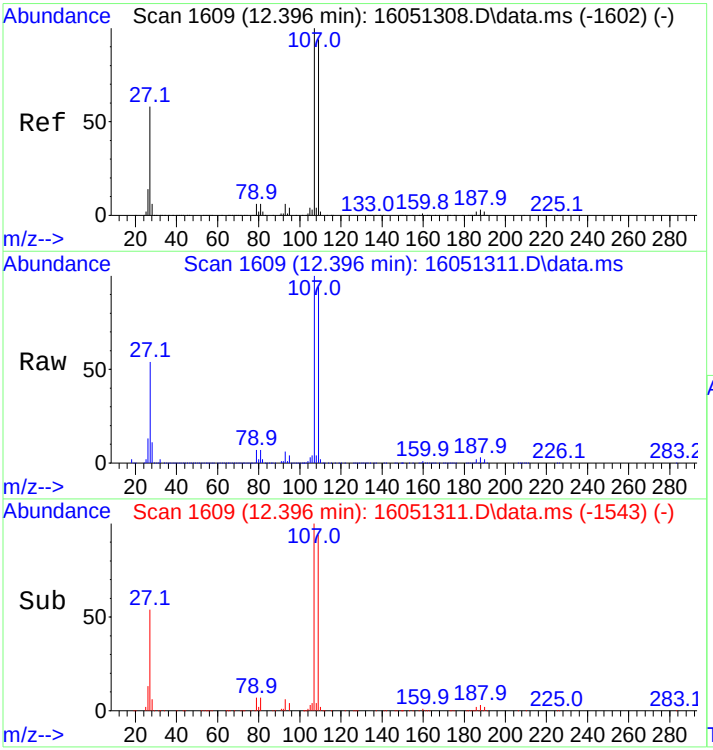


#37
Chlorodibromomethane
Concen: 1088.04 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:129 Resp: 692848

Ion	Ratio	Lower	Upper
129	100		
127	78.3	62.3	93.5

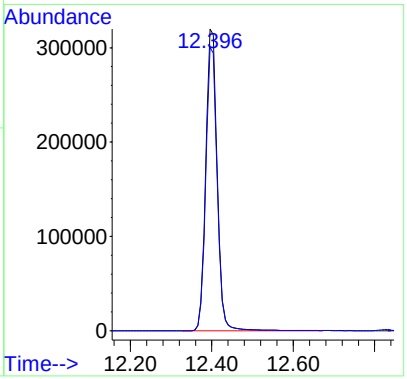


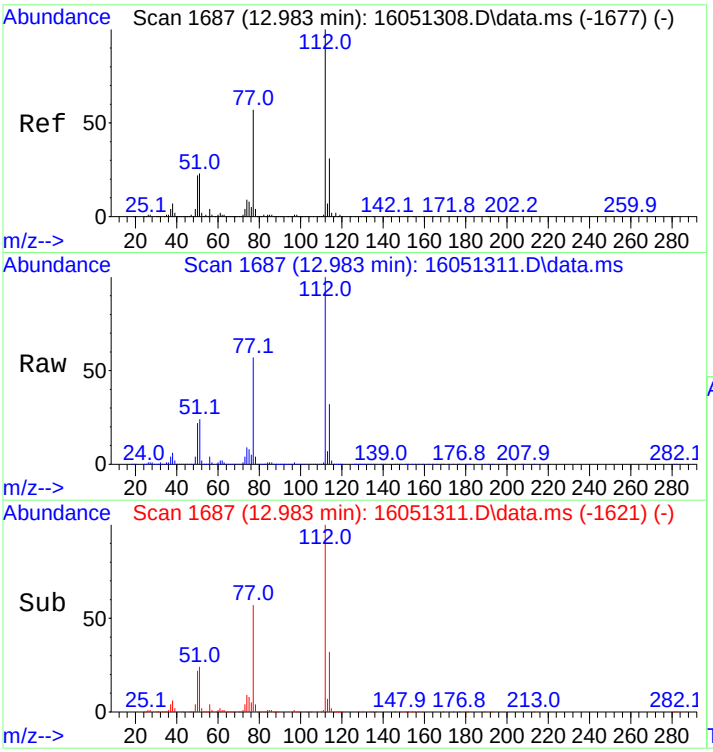


#38
Ethylene Dibromide
Concen: 1069.02 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:107 Resp: 621385

Ion	Ratio	Lower	Upper
107	100		
109	93.9	74.3	111.5

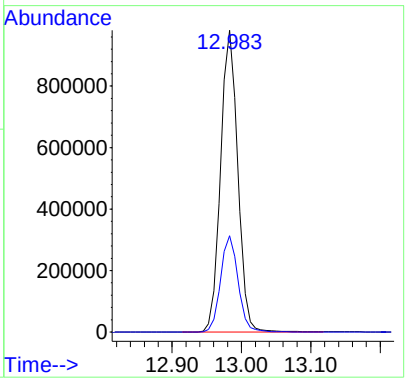


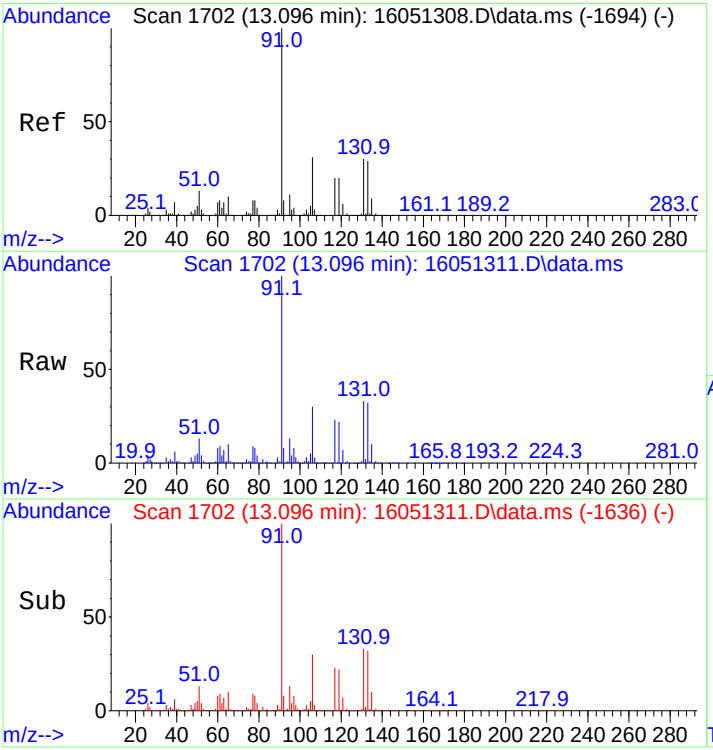


#39
Chlorobenzene
Concen: 1013.82 ng
RT: 12.983 min Scan# 1687
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:112 Resp: 1692369

Ion	Ratio	Lower	Upper
112	100		
114	32.5	27.5	41.3

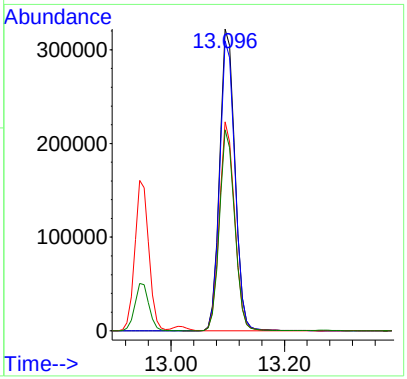


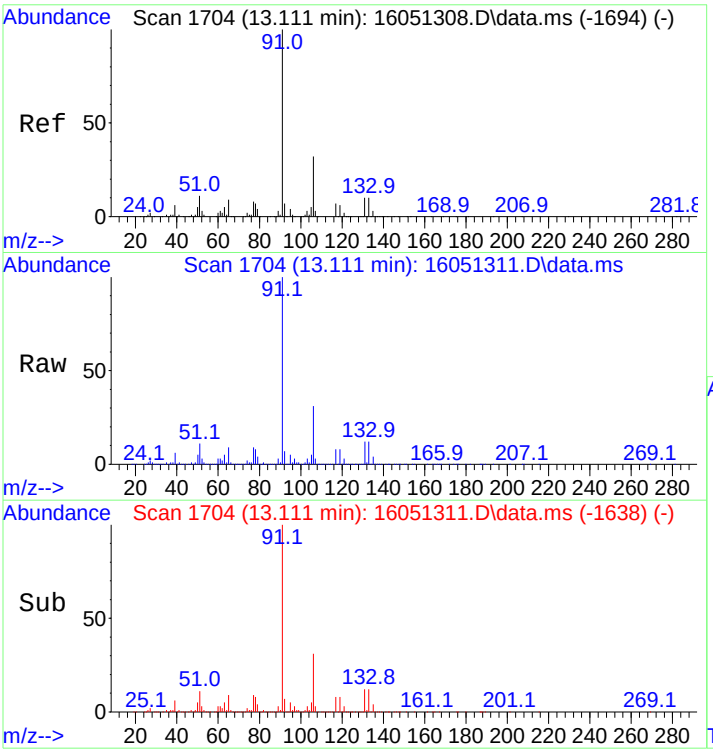


#40
1,1,1,2-Tetrachloroethane
Concen: 1020.61 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:131 Resp: 604663

Ion	Ratio	Lower	Upper
131	100		
133	96.2	77.8	116.6
117	69.0	57.1	85.7
119	66.0	54.3	81.5

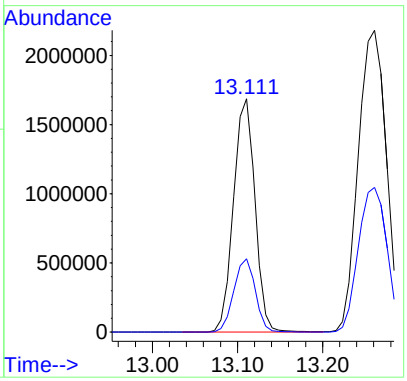


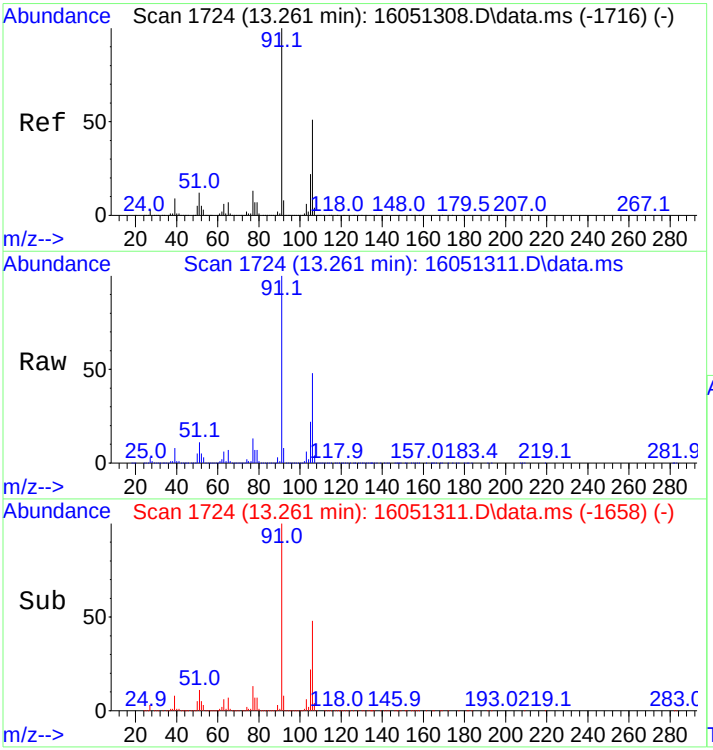


#41
Ethylbenzene
Concen: 960.74 ng
RT: 13.111 min Scan# 1704
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2965021

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.5	38.3

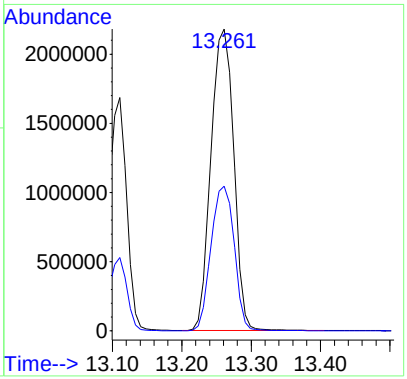


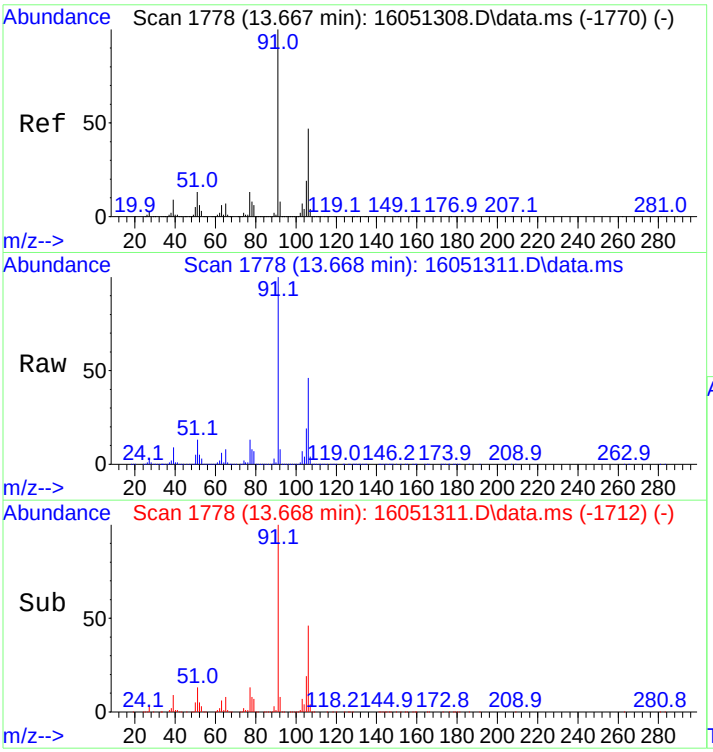


#42
M&P-Xylene
Concen: 1897.46 ng
RT: 13.261 min Scan# 1724
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 4979931

Ion	Ratio	Lower	Upper
91	100		
106	48.8	40.4	60.6

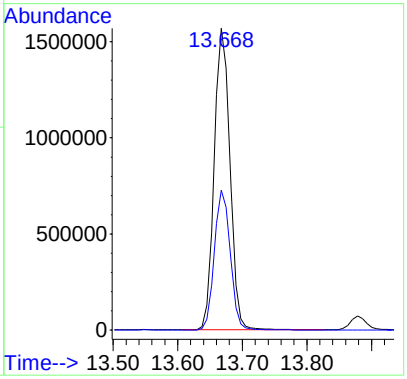


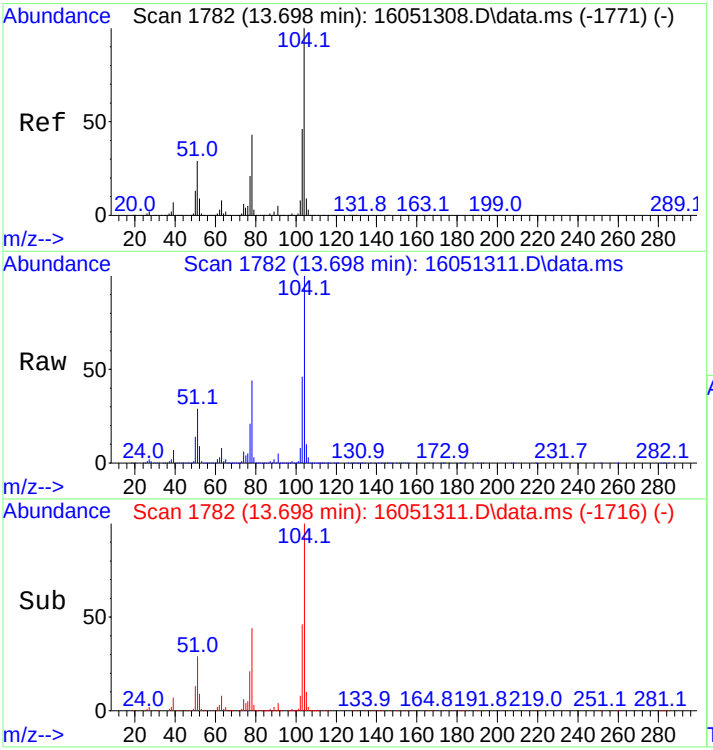


#43
O-Xylene
Concen: 978.33 ng
RT: 13.668 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2661631

Ion	Ratio	Lower	Upper
91	100		
106	46.8	38.2	57.2

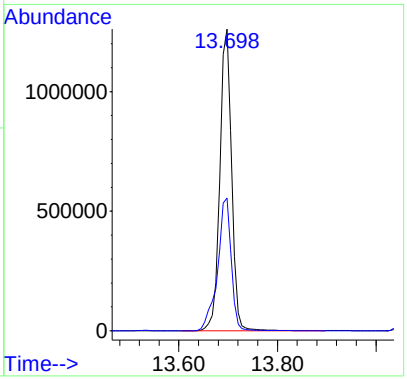


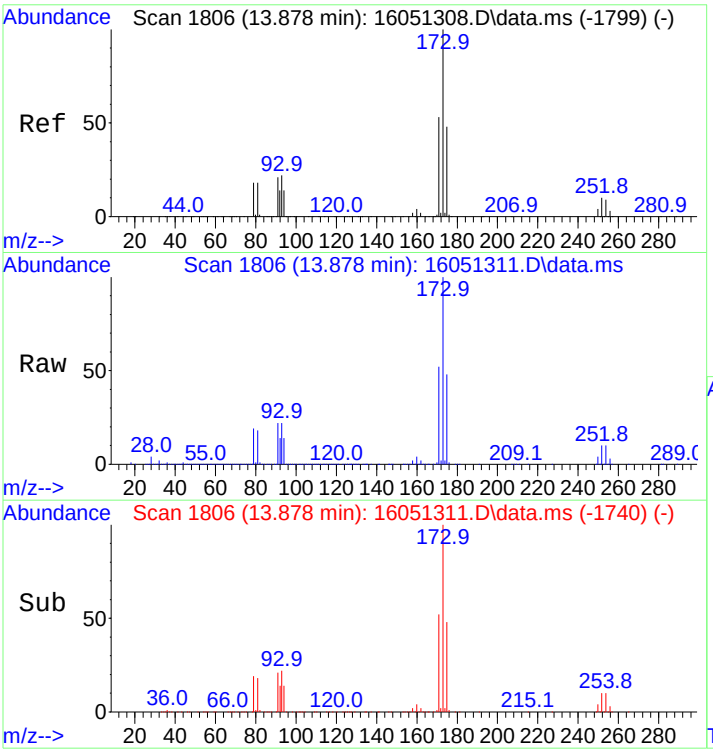


#44
Styrene
Concen: 906.73 ng
RT: 13.698 min Scan# 1782
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:104 Resp: 2105719

Ion	Ratio	Lower	Upper
104	100		
78	51.1	39.8	59.6

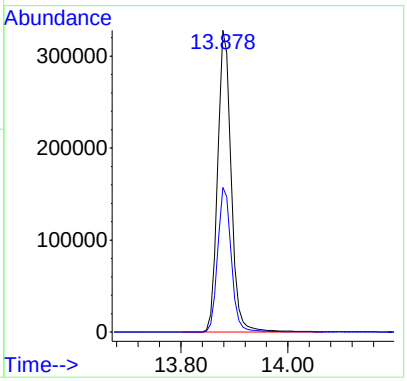


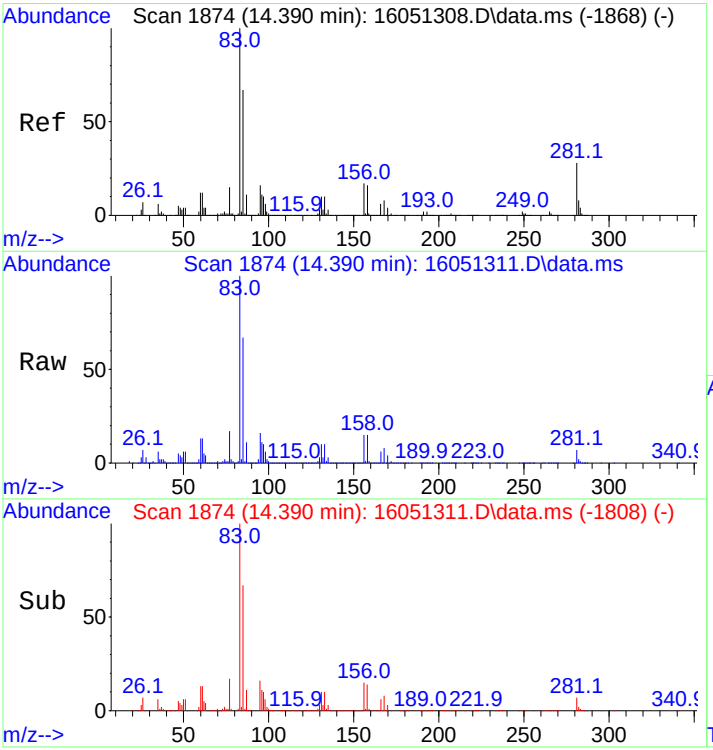


#45
Bromoform
Concen: 1146.80 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:173 Resp: 575542

Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.5	57.7

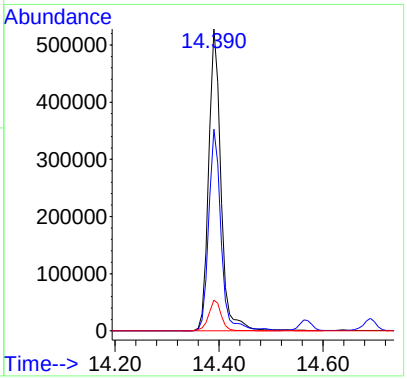


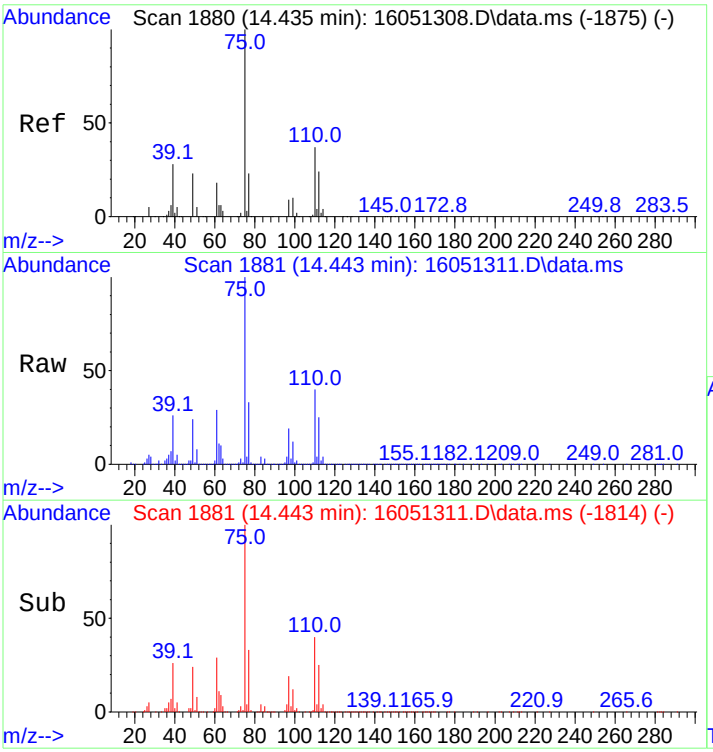


#46
1,1,2,2-Tetrachloroethane
Concen: 1091.22 ng
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 865484

Ion	Ratio	Lower	Upper
83	100		
85	66.1	53.1	79.7
131	10.6	8.9	13.3

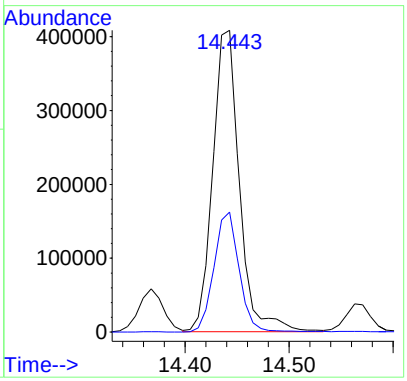


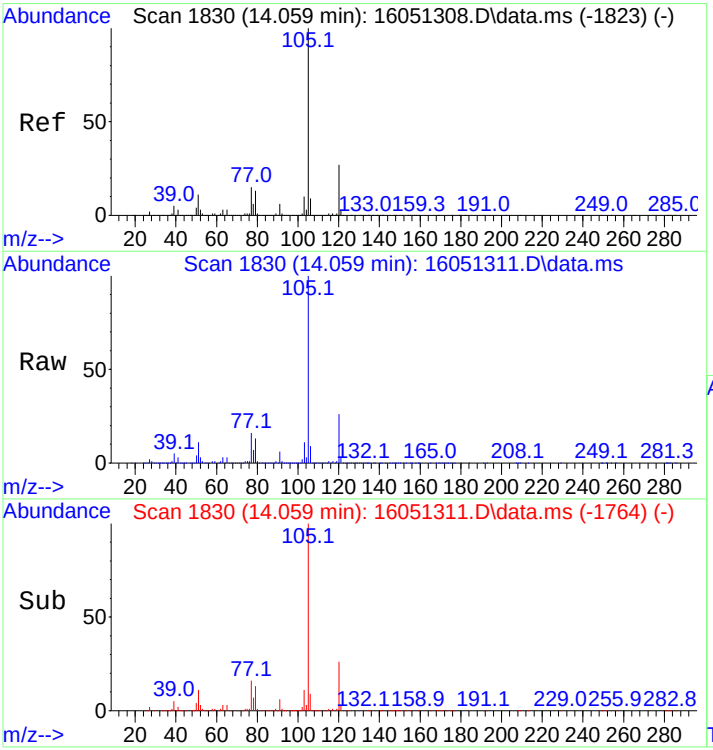


#47
1,2,3-Trichloropropane
Concen: 1110.17 ng
RT: 14.443 min Scan# 1881
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 727363

Ion	Ratio	Lower	Upper
75	100		
110	37.6	30.5	45.7

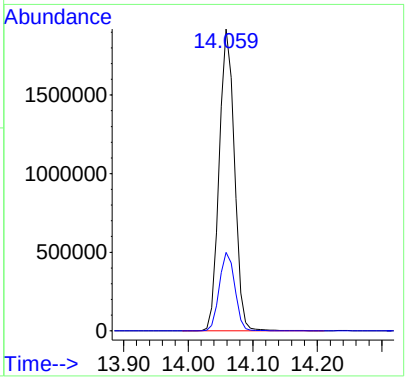


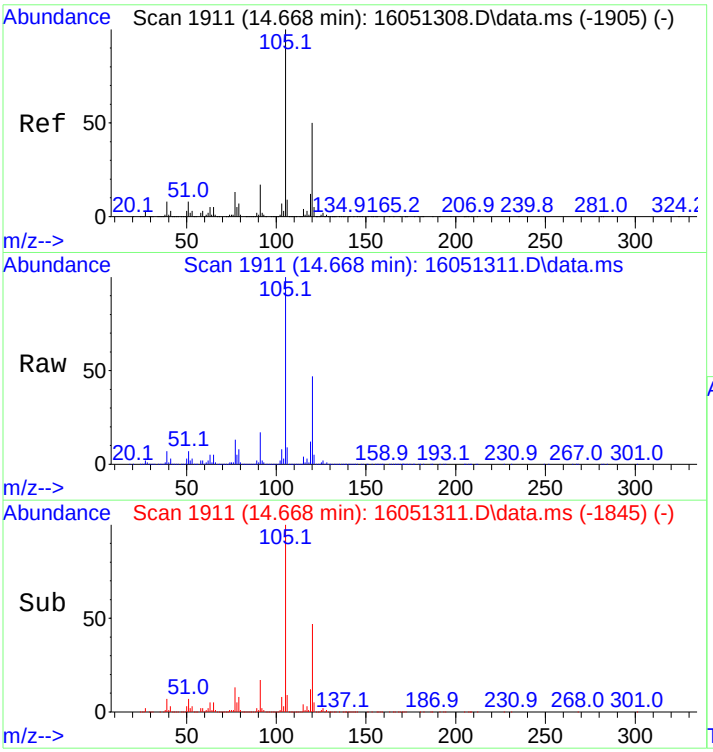


#51
Isopropylbenzene
Concen: 992.48 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 3138079

Ion	Ratio	Lower	Upper
105	100		
120	26.5	21.4	32.2

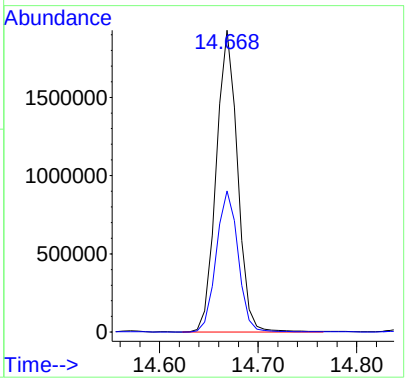


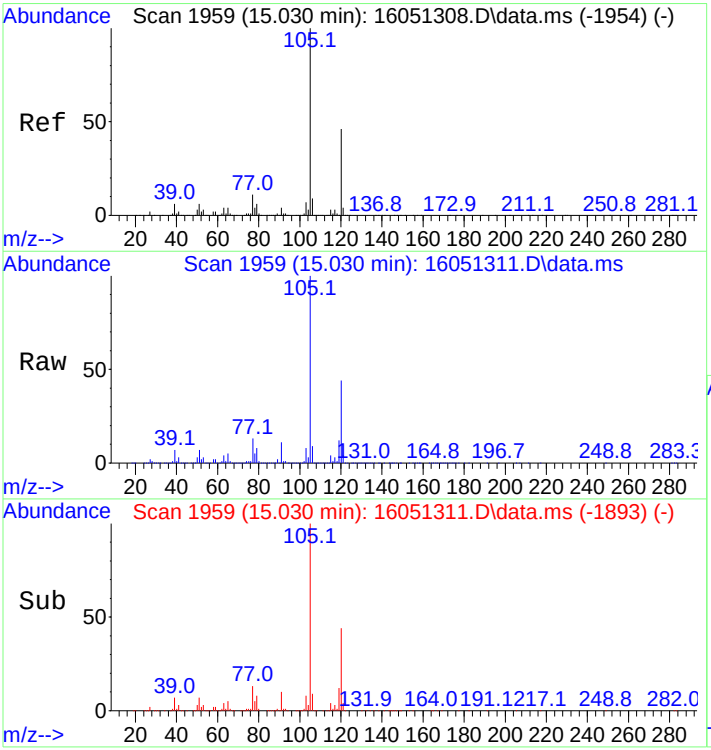


#52
1,3,5-Trimethylbenzene
Concen: 941.88 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 2902373

Ion	Ratio	Lower	Upper
105	100		
120	48.1	39.9	59.9

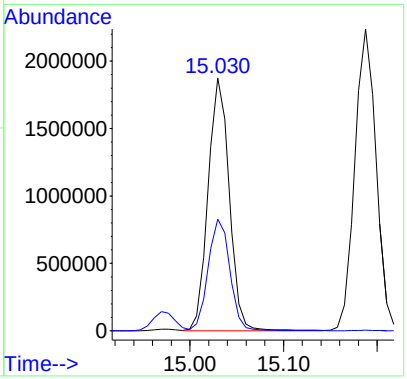


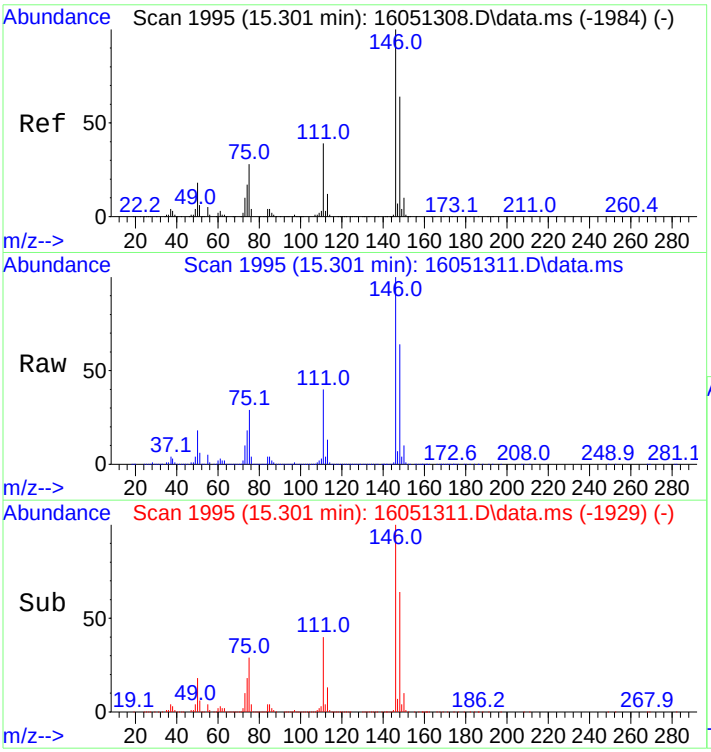


#53
1,2,4-Trimethylbenzene
Concen: 969.12 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 2948653

Ion	Ratio	Lower	Upper
105	100		
120	45.3	37.5	56.3

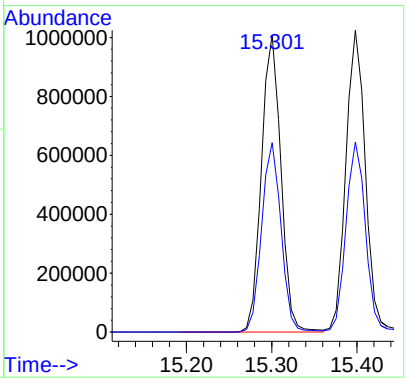


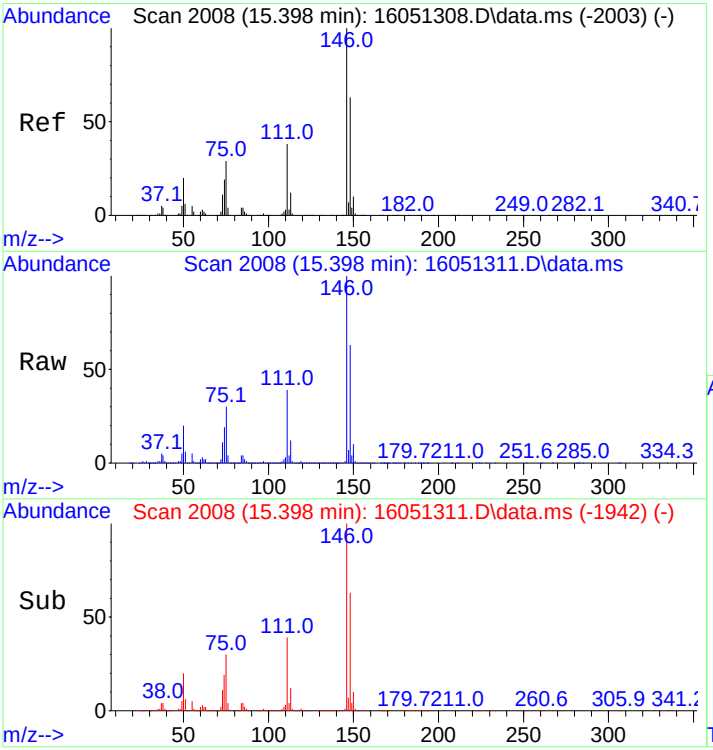


#54
1,3-Dichlorobenzene
Concen: 1012.98 ng
RT: 15.301 min Scan# 1995
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:146 Resp: 1608512

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	76.0

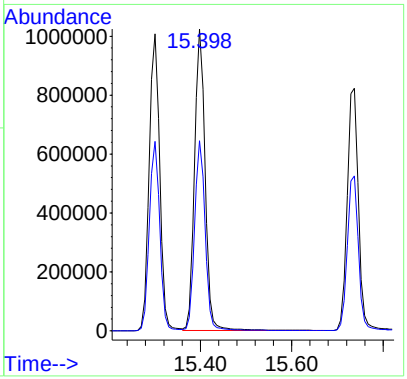


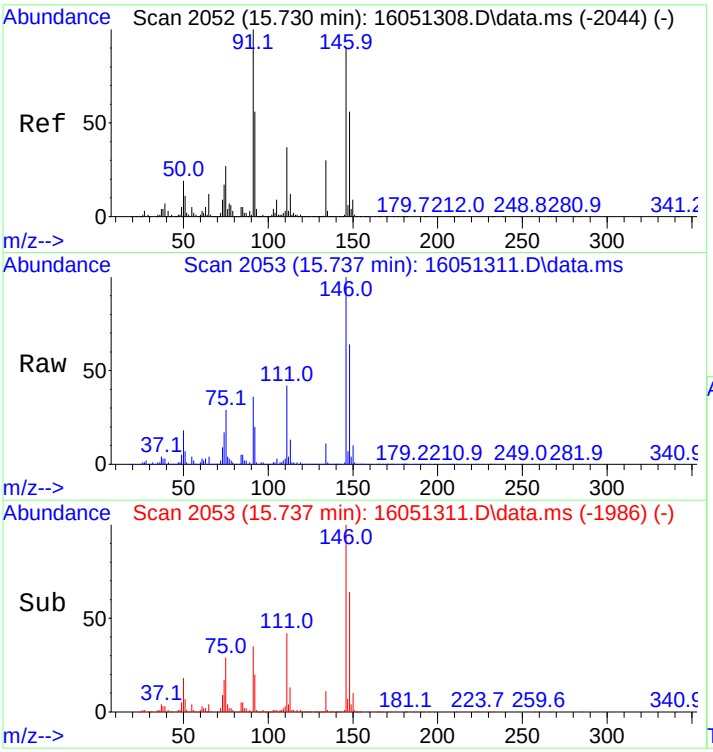


#55
1,4-Dichlorobenzene
Concen: 986.65 ng
RT: 15.398 min Scan# 2008
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:146 Resp: 1656010

Ion	Ratio	Lower	Upper
146	100		
148	63.2	49.9	74.9

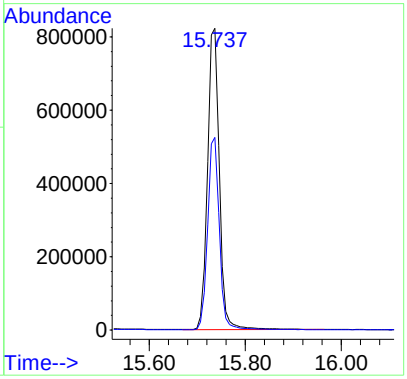


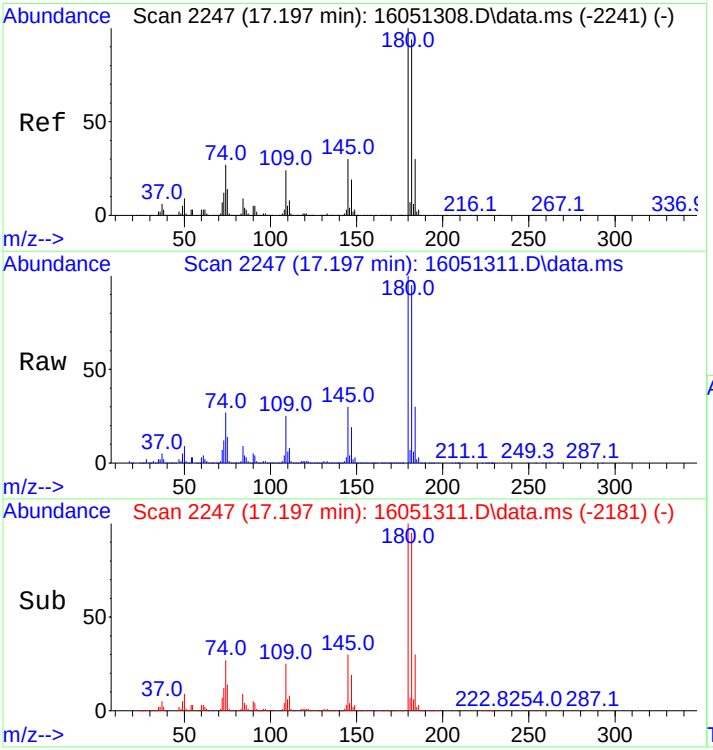


#56
1,2-Dichlorobenzene
Concen: 938.55 ng
RT: 15.737 min Scan# 2053
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:146 Resp: 1409587

Ion	Ratio	Lower	Upper
146	100		
148	63.6	49.9	74.9

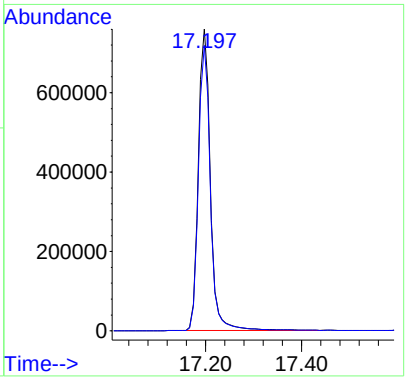


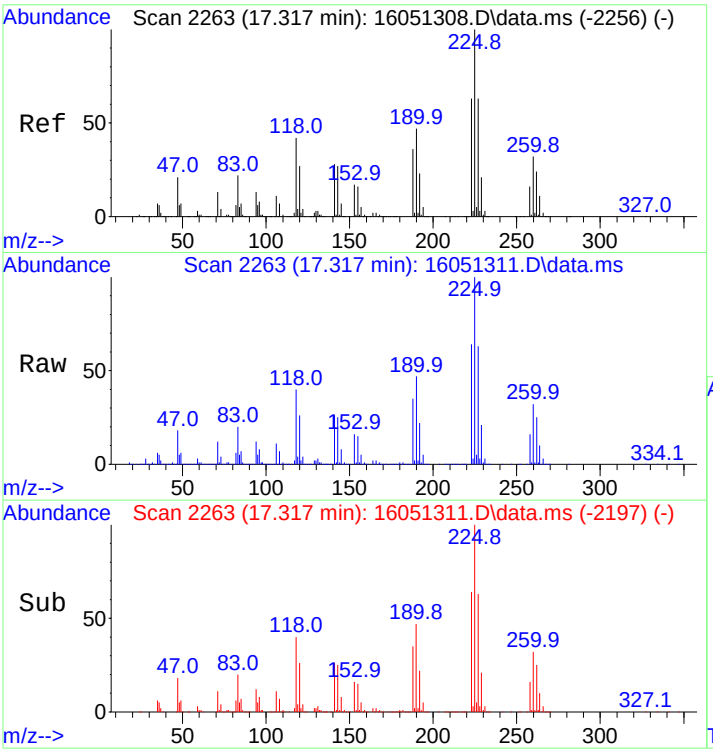


#57
1,2,4-Trichlorobenzene
Concen: 1039.78 ng
RT: 17.197 min Scan# 2247
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:180 Resp: 1324499

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.0	112.4

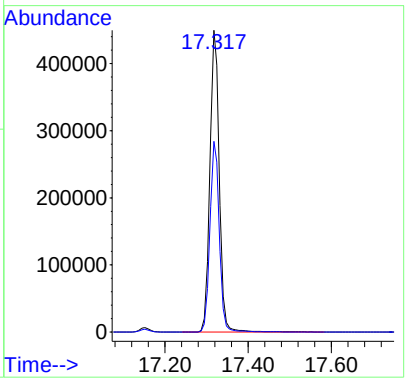


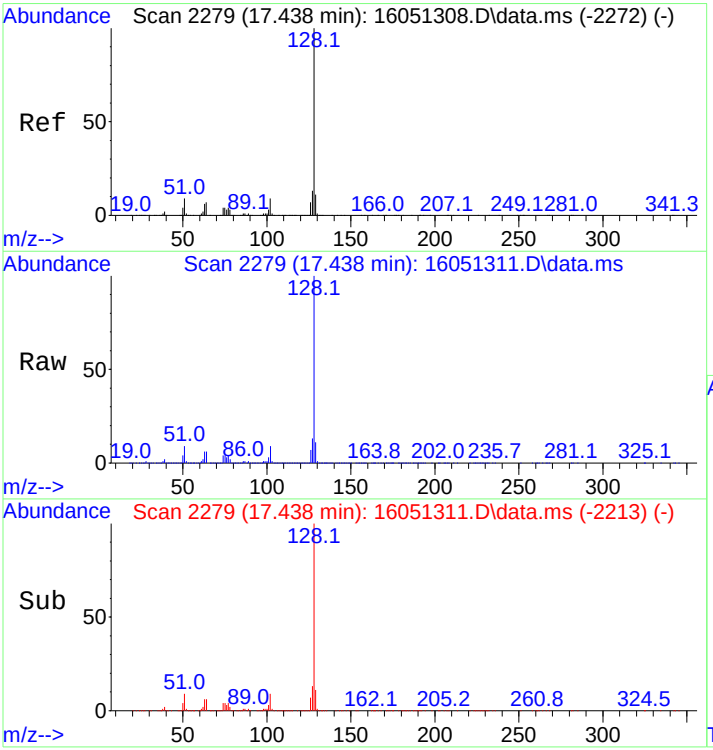


#58
Hexachlorobutadiene
Concen: 1053.74 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:225 Resp: 705554

Ion	Ratio	Lower	Upper
225	100		
227	63.3	51.1	76.7

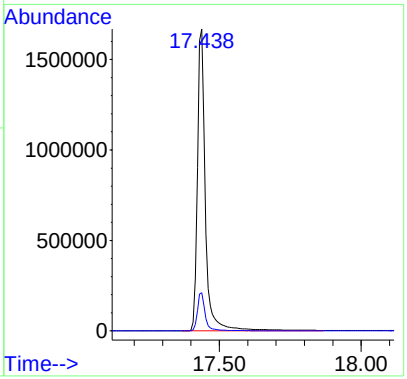


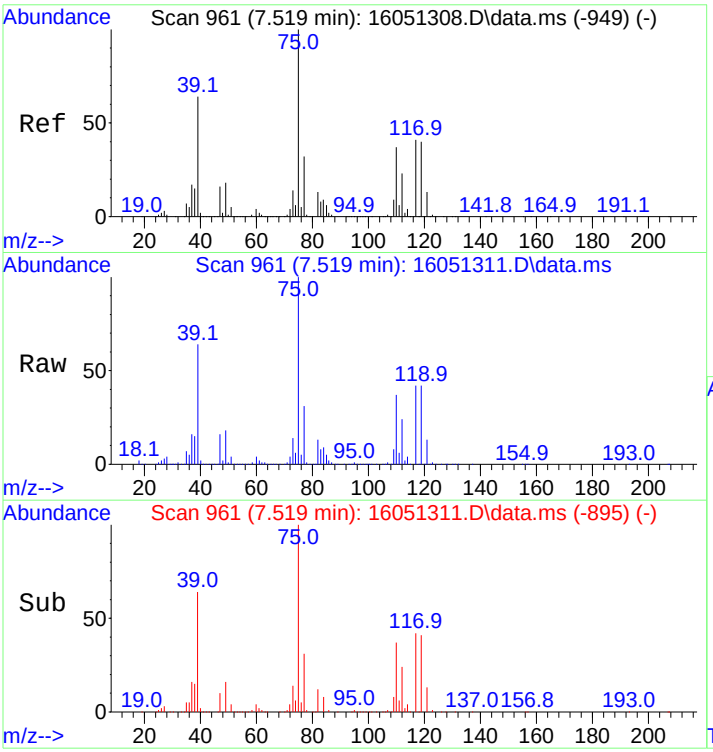


#59
Naphthalene
Concen: 1042.34 ng
RT: 17.438 min Scan# 2279
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:128 Resp: 3259027

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

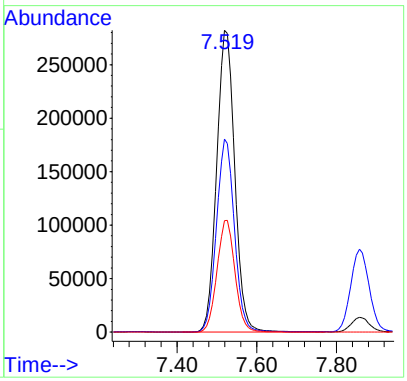


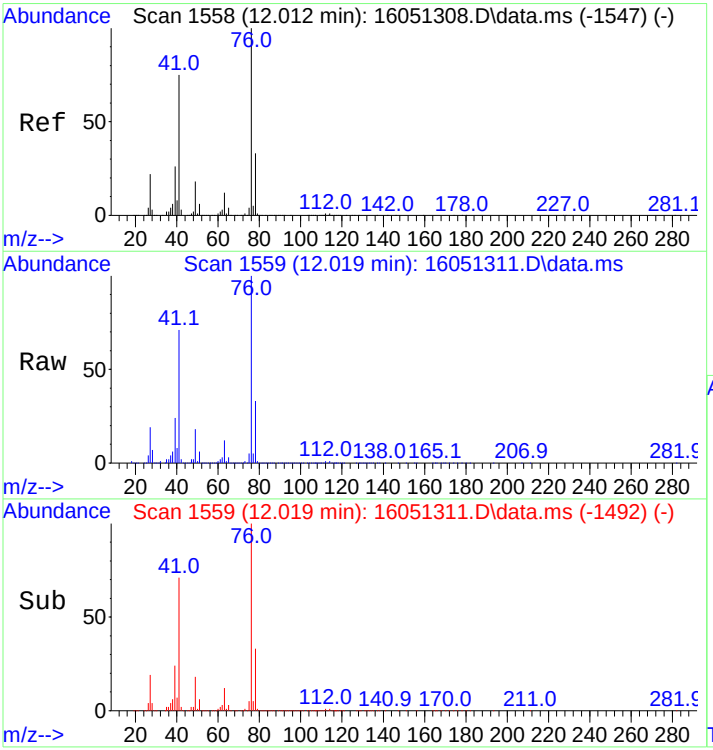


#60
1,1-Dichloropropene
Concen: 1021.00 ng
RT: 7.519 min Scan# 961
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 888759

Ion	Ratio	Lower	Upper
75	100		
39	63.6	51.8	77.6
110	37.0	29.3	43.9

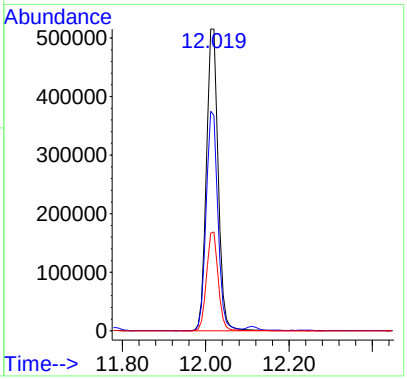


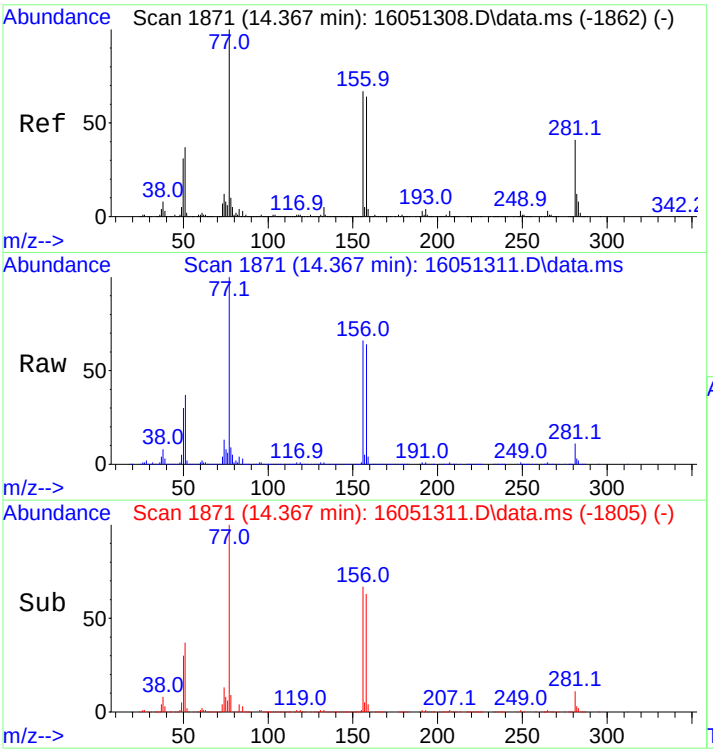


#61
1,3-Dichloropropane
Concen: 1050.16 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 76 Resp: 1019563

Ion	Ratio	Lower	Upper
76	100		
41	72.4	58.2	87.4
78	32.5	26.1	39.1

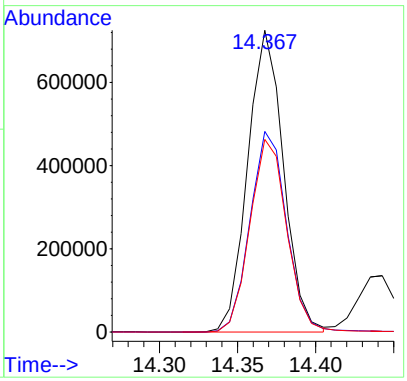


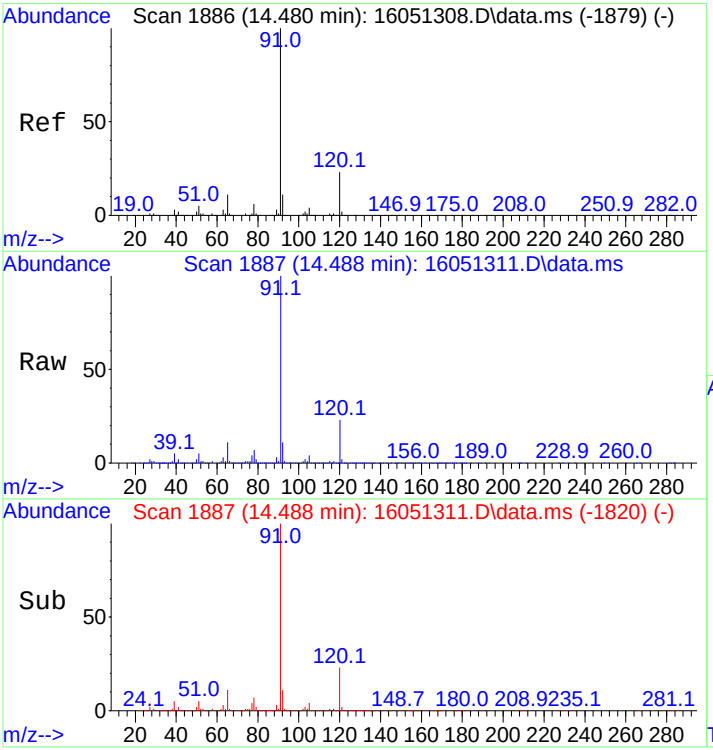


#62
Bromobenzene
Concen: 1028.97 ng
RT: 14.367 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 77 Resp: 1157841

Ion	Ratio	Lower	Upper
77	100		
156	68.5	55.0	82.4
158	66.2	53.3	79.9

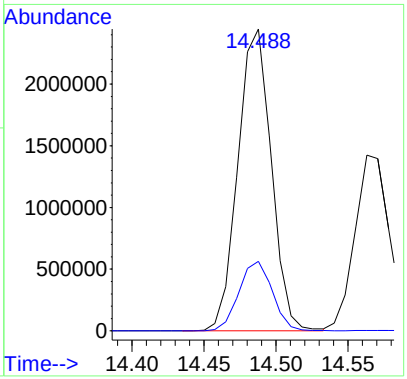


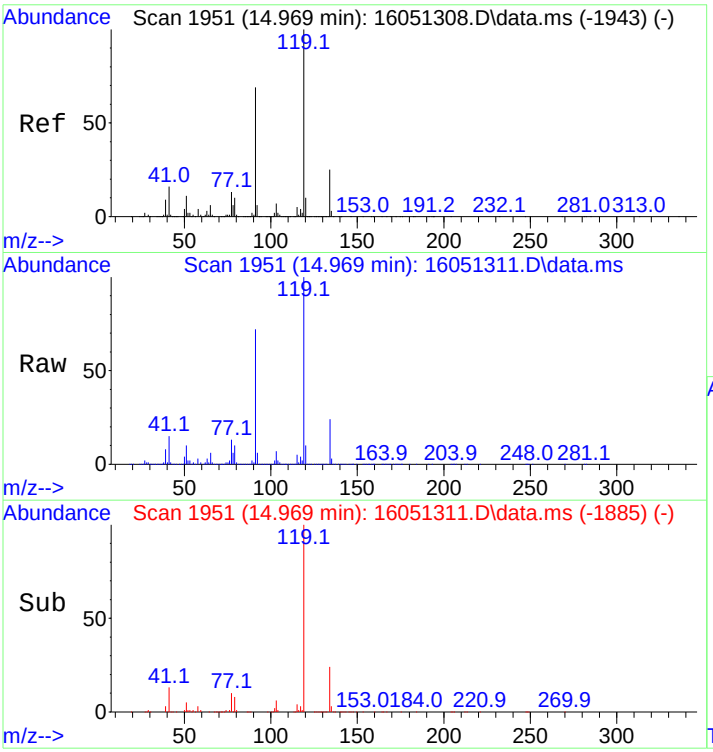


#63
n-Propylbenzene
Concen: 982.15 ng
RT: 14.488 min Scan# 1887
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 3930003

Ion	Ratio	Lower	Upper
91	100		
120	23.1	18.6	28.0

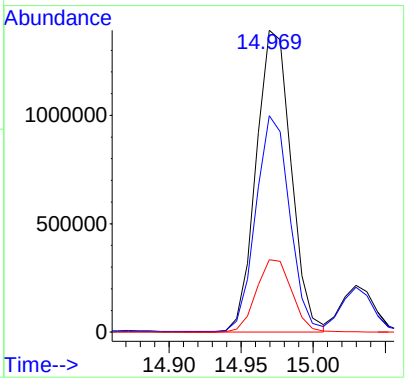


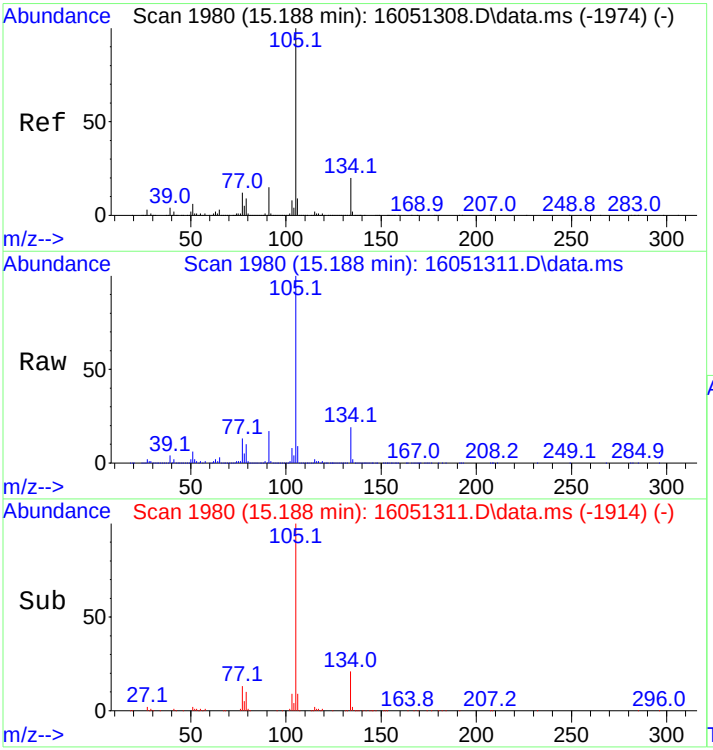


#64
tert-Butylbenzene
Concen: 977.33 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:119 Resp: 2341052

Ion	Ratio	Lower	Upper
119	100		
91	69.2	54.0	81.0
134	24.5	19.9	29.9

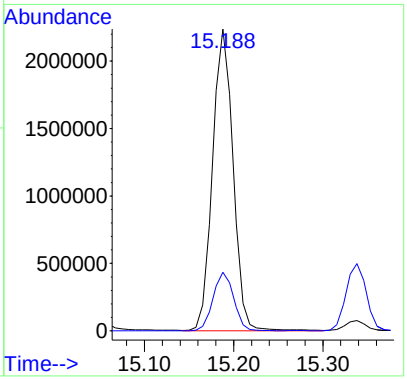


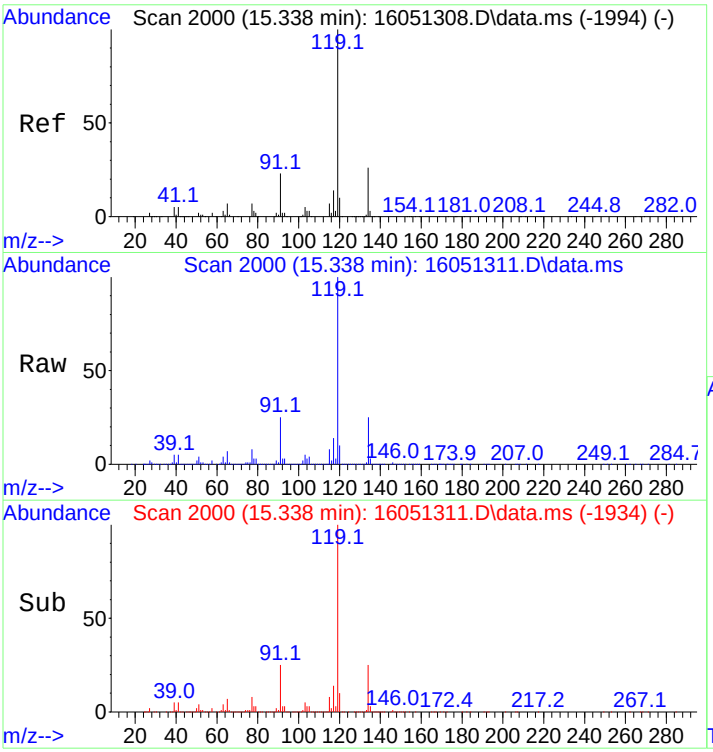


#65
sec-Butylbenzene
Concen: 967.23 ng
RT: 15.188 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 3570293

Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.7	23.5

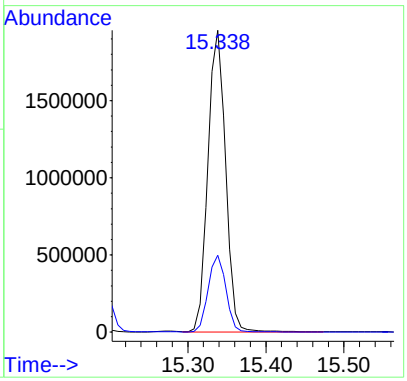


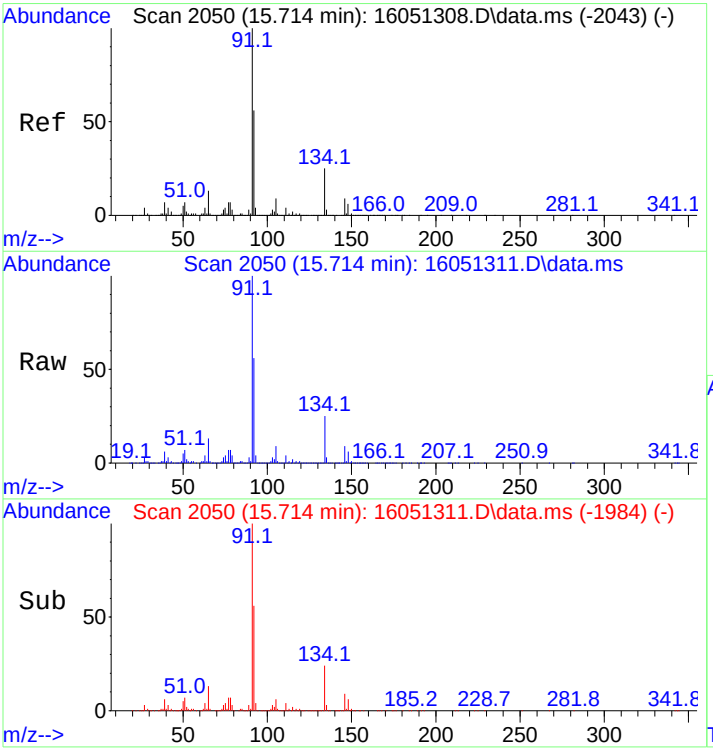


#66
p-Isopropyltoluene
Concen: 947.42 ng
RT: 15.338 min Scan# 2000
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:119 Resp: 3083078

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0

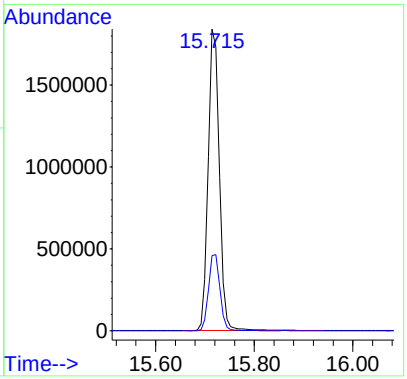


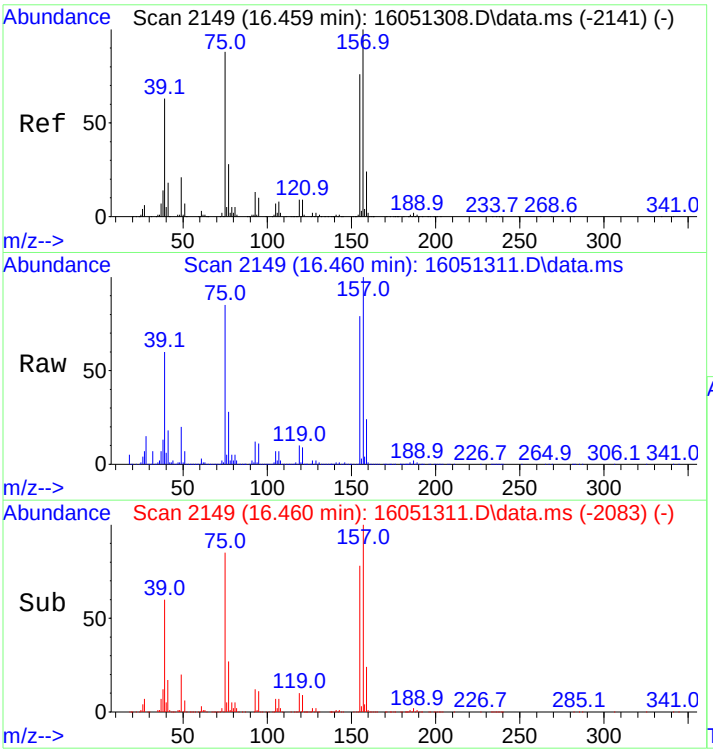


#67
n-Butylbenzene
Concen: 921.59 ng
RT: 15.714 min Scan# 2050
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2899368

Ion	Ratio	Lower	Upper
91	100		
134	25.9	21.0	31.6

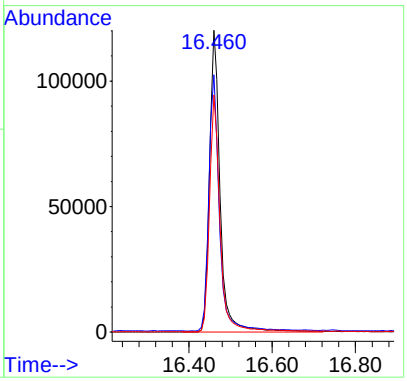




#68
1,2-Dibromo-3-chloropropane
Concen: 1086.24 ng
RT: 16.460 min Scan# 2149
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:157 Resp: 214586

Ion	Ratio	Lower	Upper
157	100		
75	84.3	68.6	103.0
155	78.5	62.2	93.2



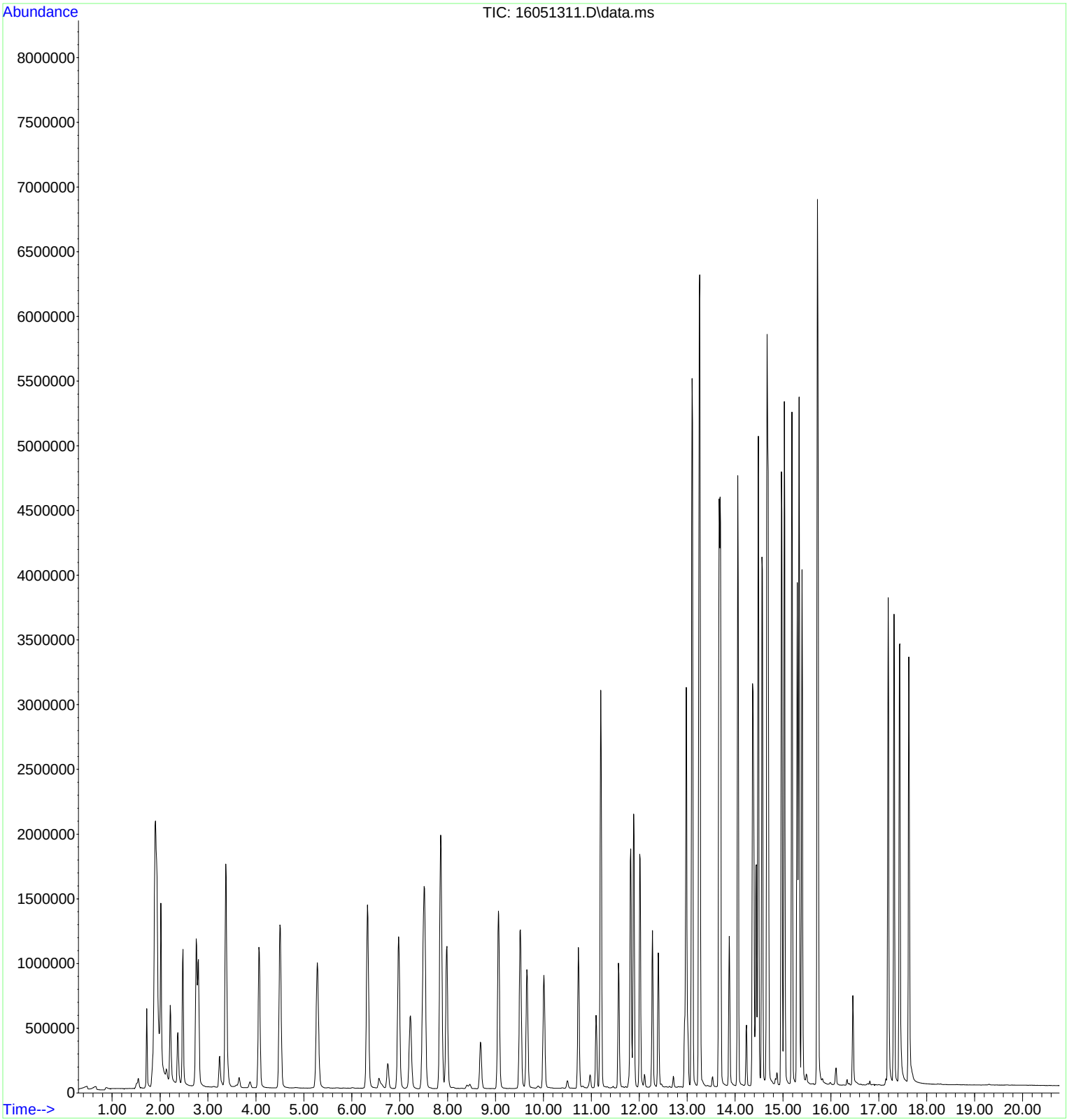
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

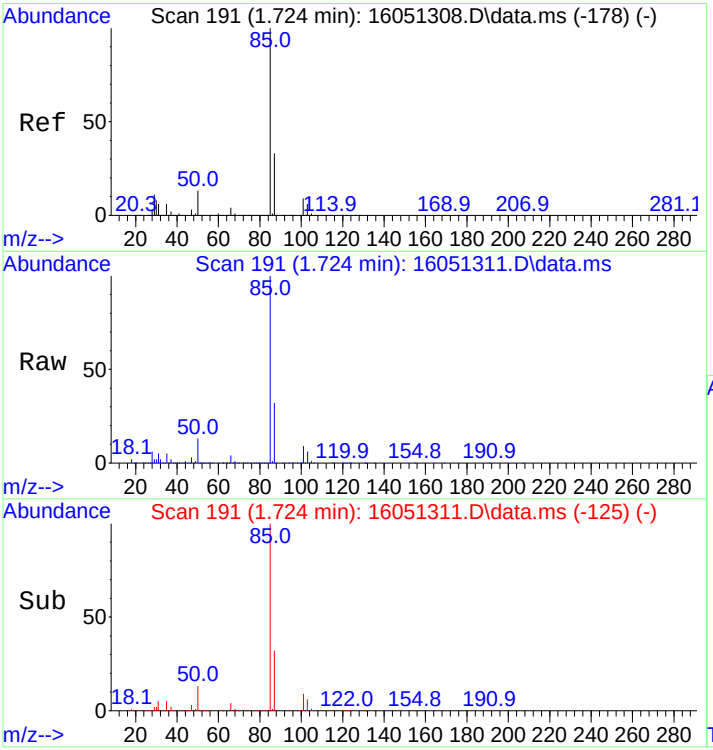
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1605\160513 - Copy\
Data File : 16051311.D
Acq On : 13 May 2016 5:20 pm
Operator : SG Instrument MSD-3
Sample : 1000NG-VOSTSTD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 12 14:49:12 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 14:47:59 2016
Response via : Initial Calibration

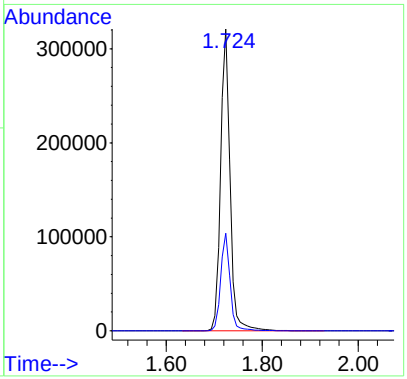


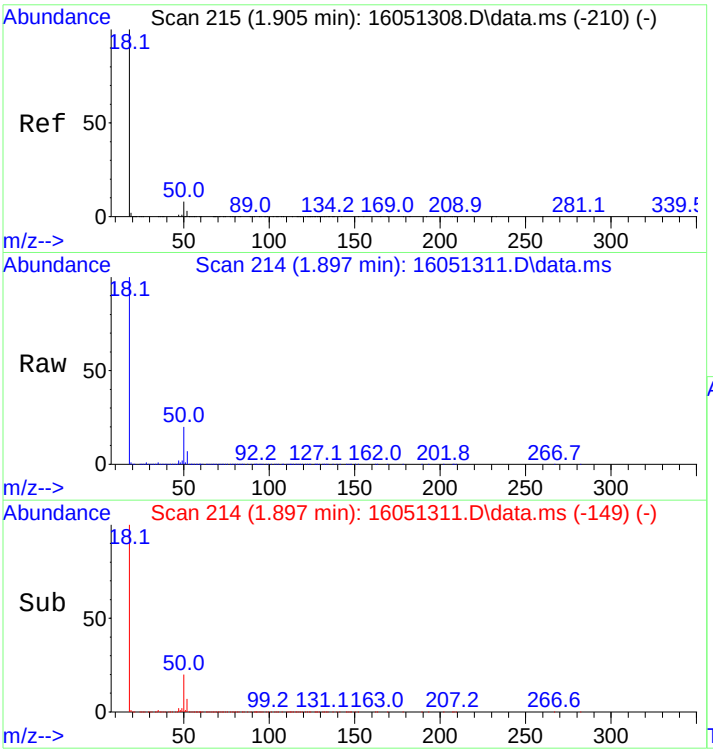


#2
Dichlorodifluoromethane
Concen: 656.06 ng
RT: 1.724 min Scan# 191
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 85 Resp: 435619

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.0	39.0

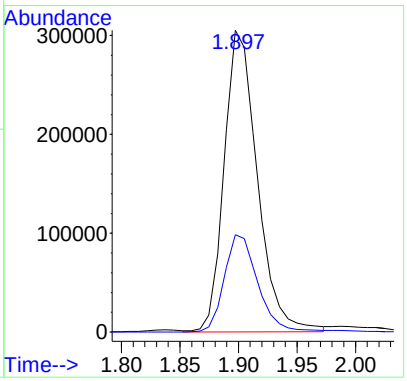


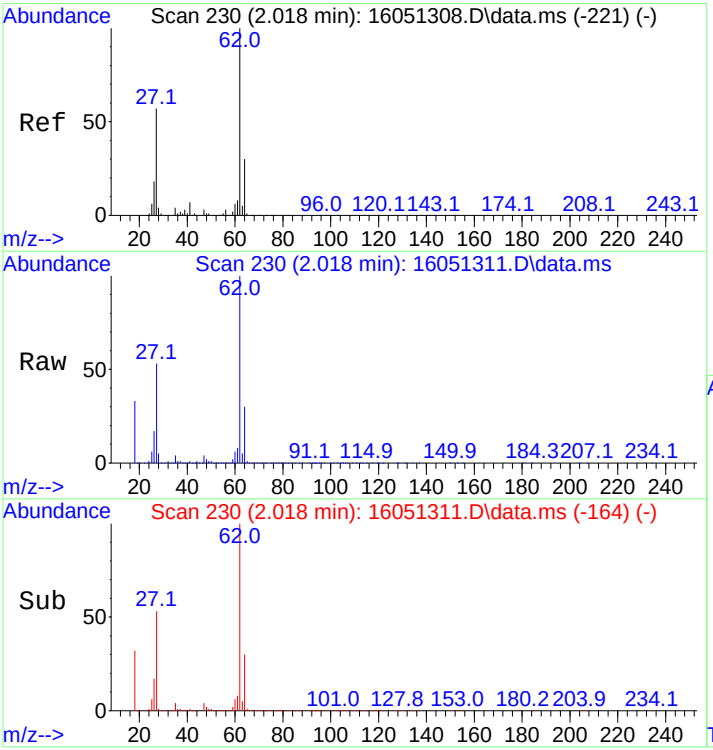


#3
Chloromethane
Concen: 763.32 ng
RT: 1.897 min Scan# 214
Delta R.T. -0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 50 Resp: 601093

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.0	39.0

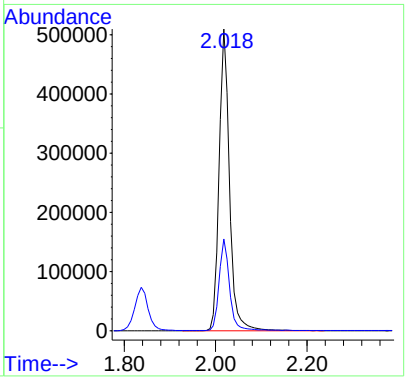


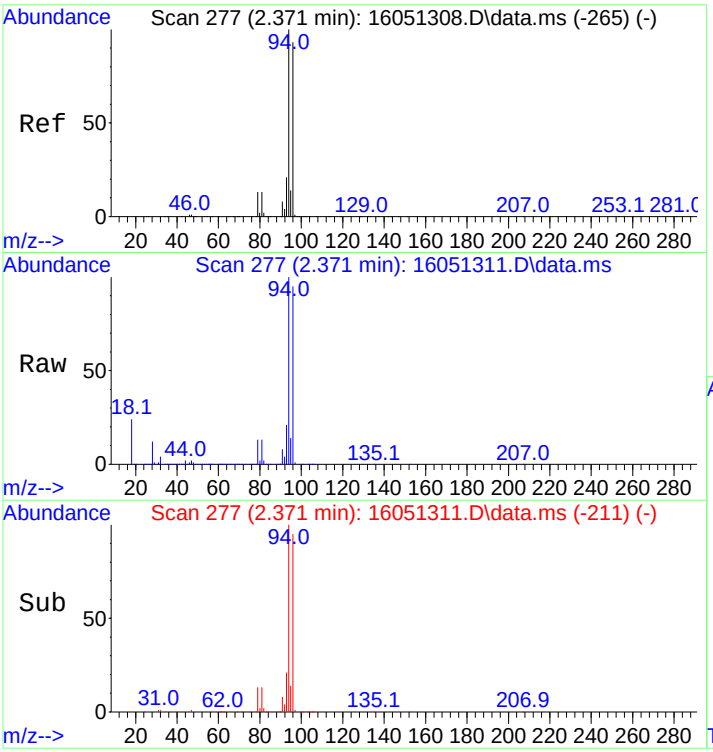


#4
Vinyl Chloride
Concen: 853.79 ng
RT: 2.018 min Scan# 230
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 62 Resp: 808050

Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.7	38.5

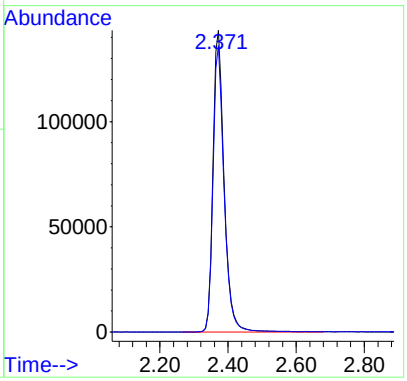


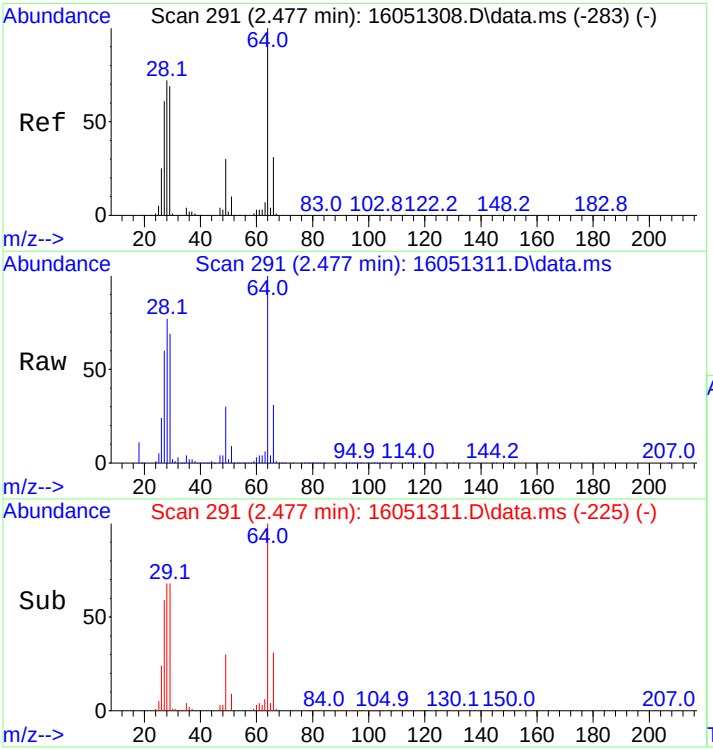


#5
Bromomethane
Concen: 777.14 ng
RT: 2.371 min Scan# 277
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 94 Resp: 326891

Ion	Ratio	Lower	Upper
94	100		
96	93.9	74.5	111.7

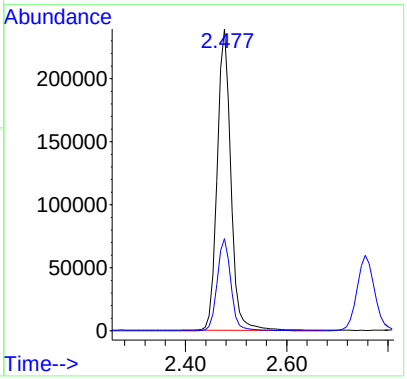


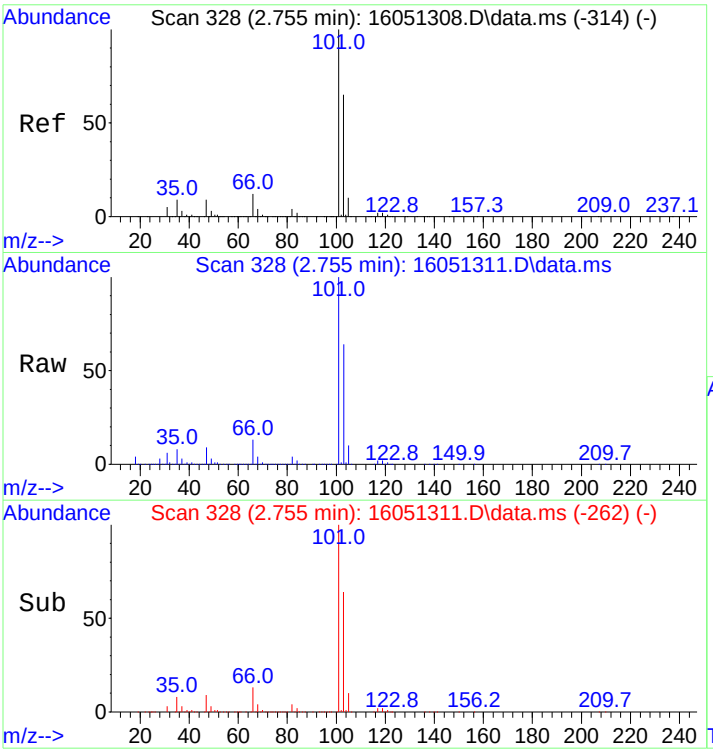


#6
Chloroethane
Concen: 904.04 ng
RT: 2.477 min Scan# 291
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 64 Resp: 445483

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4

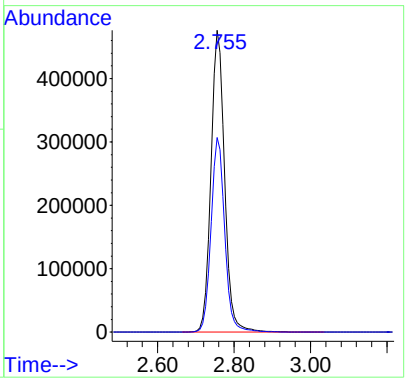


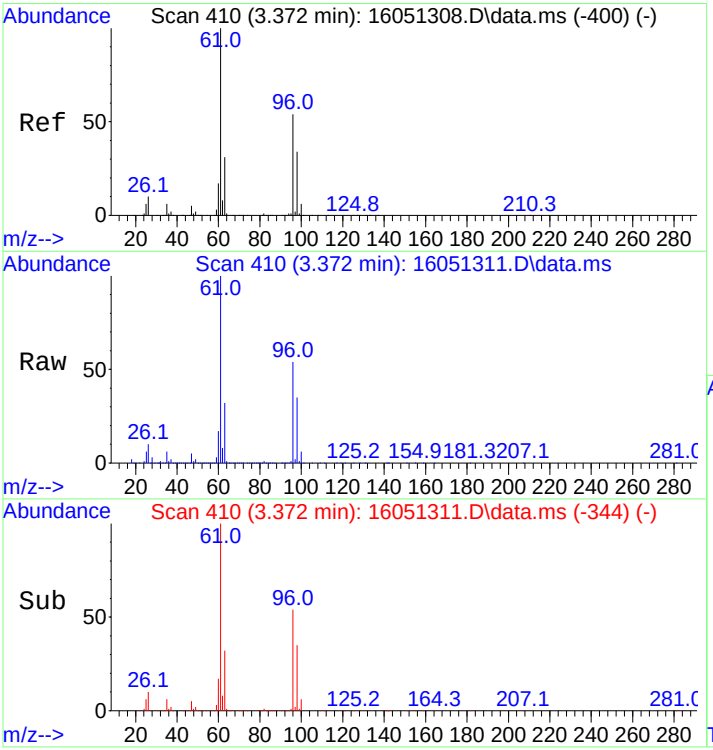


#7
Trichlorofluoromethane
Concen: 833.51 ng
RT: 2.755 min Scan# 328
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:101 Resp: 1176667

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.8	77.6

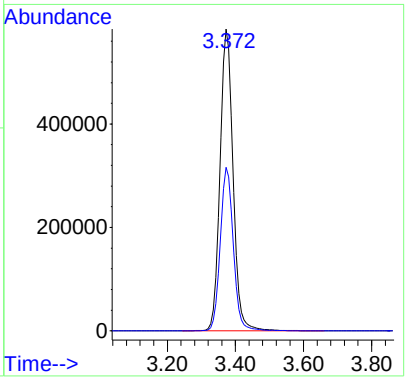


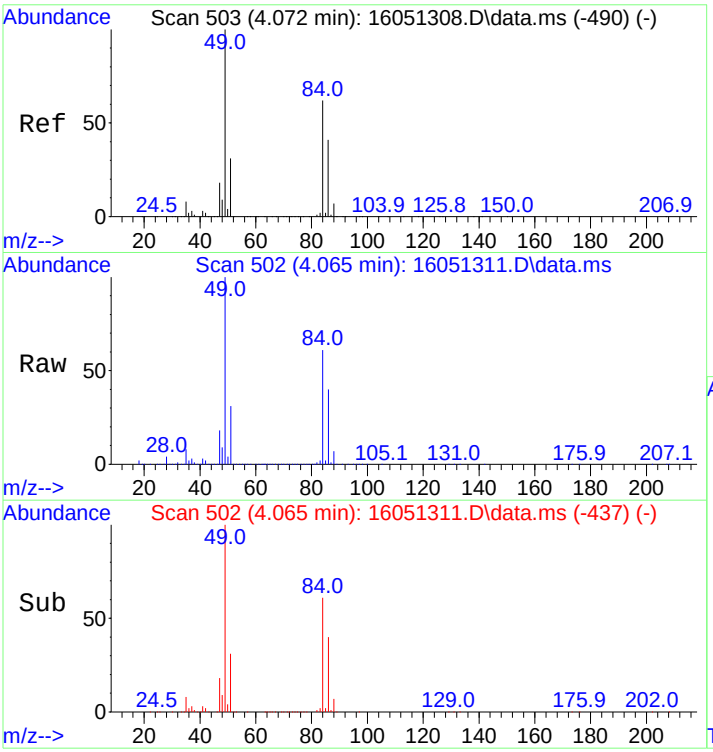


#8
1,1-Dichloroethene
Concen: 911.40 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 61 Resp: 1550703

Ion	Ratio	Lower	Upper
61	100		
96	54.2	44.1	66.1

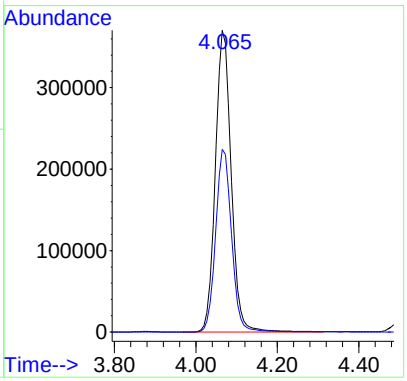


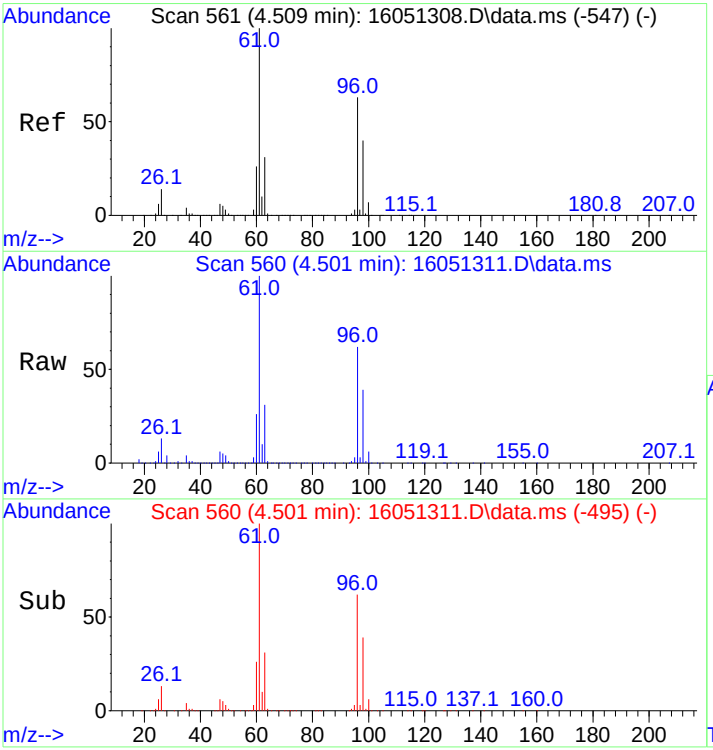


#12
Methylene Chloride
Concen: 850.45 ng
RT: 4.065 min Scan# 502
Delta R.T. -0.007 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 49 Resp: 1001384

Ion	Ratio	Lower	Upper
49	100		
84	60.8	48.4	72.6

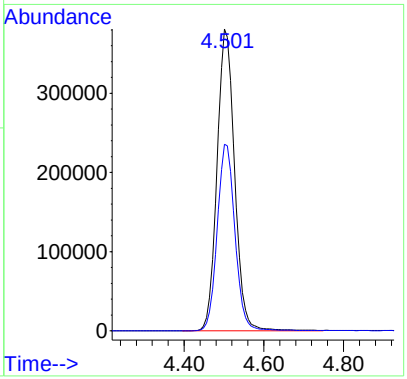


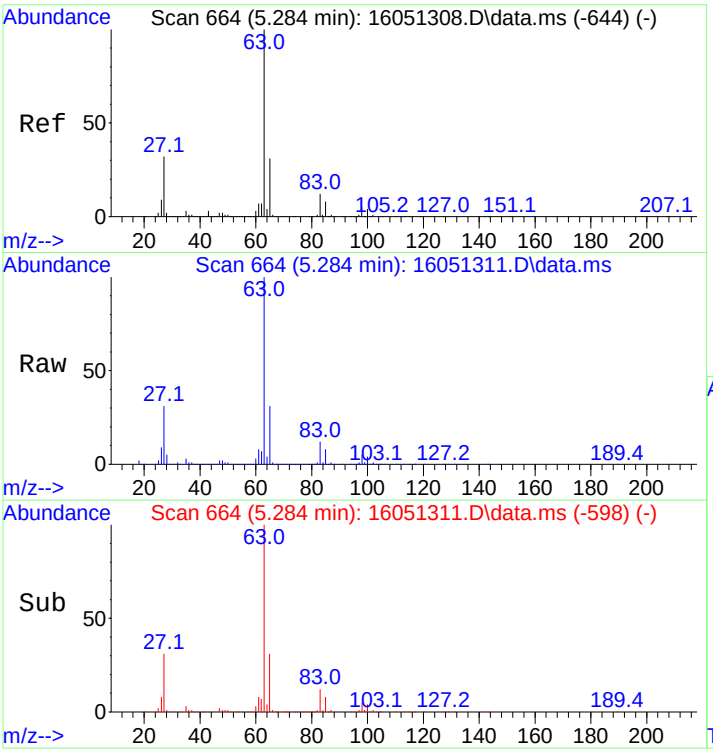


#13
trans,1,2-Dichloroethene
Concen: 1034.43 ng
RT: 4.501 min Scan# 560
Delta R.T. -0.007 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 61 Resp: 1168289

Ion	Ratio	Lower	Upper
61	100		
96	62.4	50.2	75.4

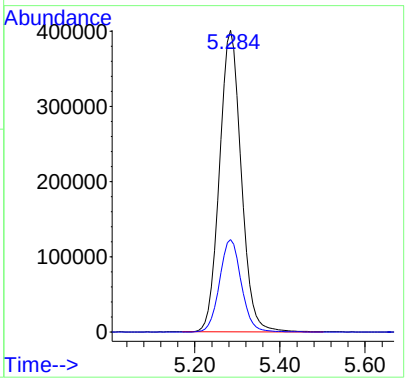


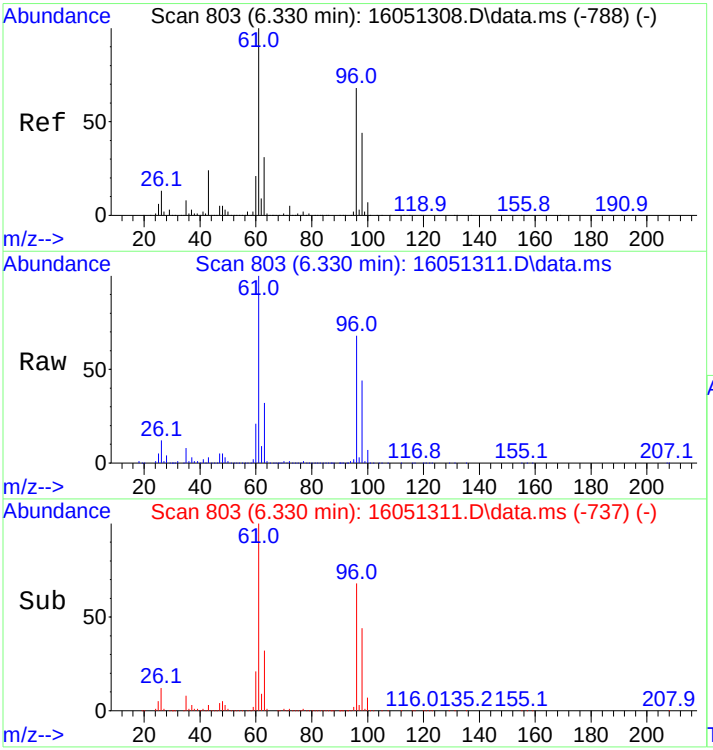


#14
1,1-Dichloroethane
Concen: 1013.08 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 63 Resp: 1419127

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

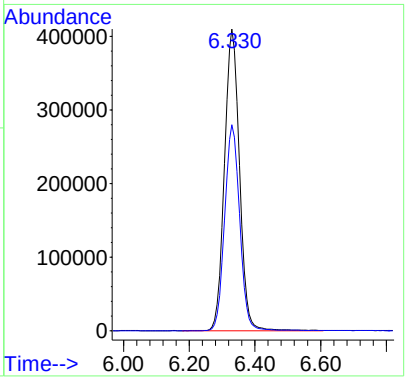


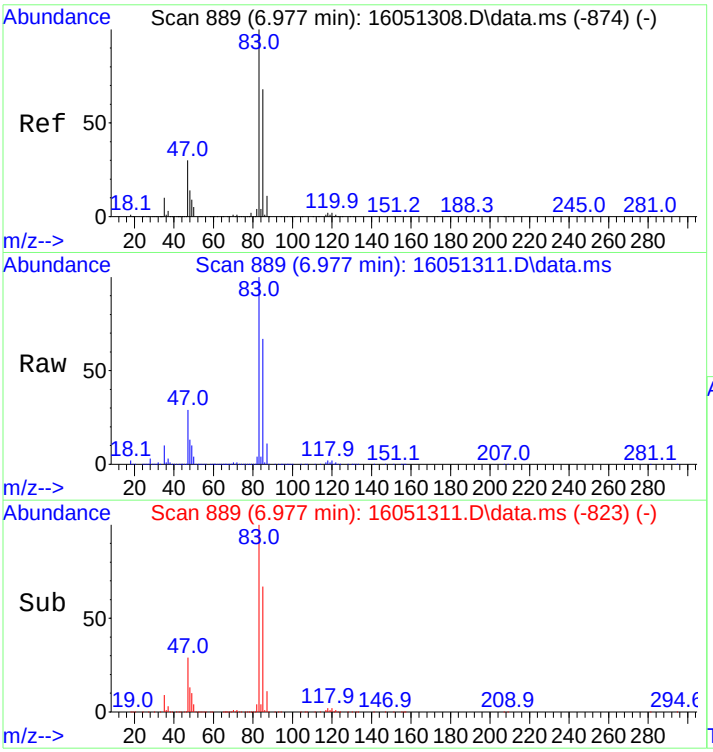


#16
cis,1,2-Dichloroethene
Concen: 990.70 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 61 Resp: 1296790

Ion	Ratio	Lower	Upper
61	100		
96	68.5	54.6	81.8

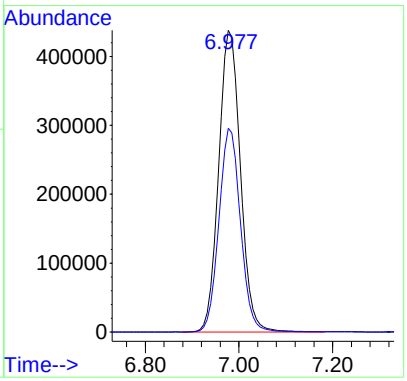


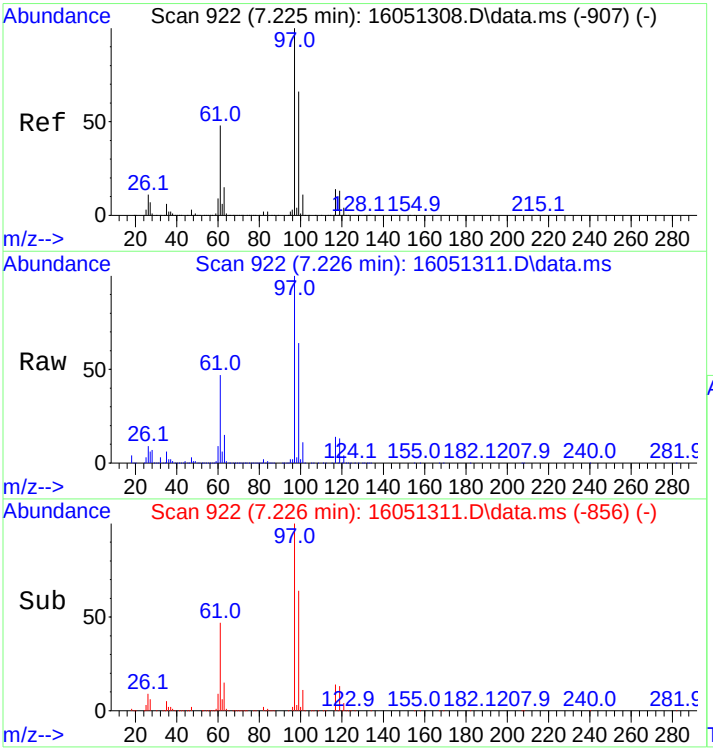


#18
Chloroform
Concen: 1074.24 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 1411674

Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.9	80.9

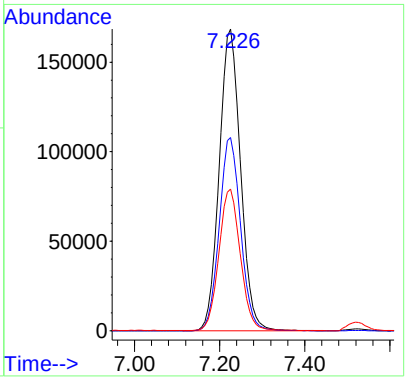


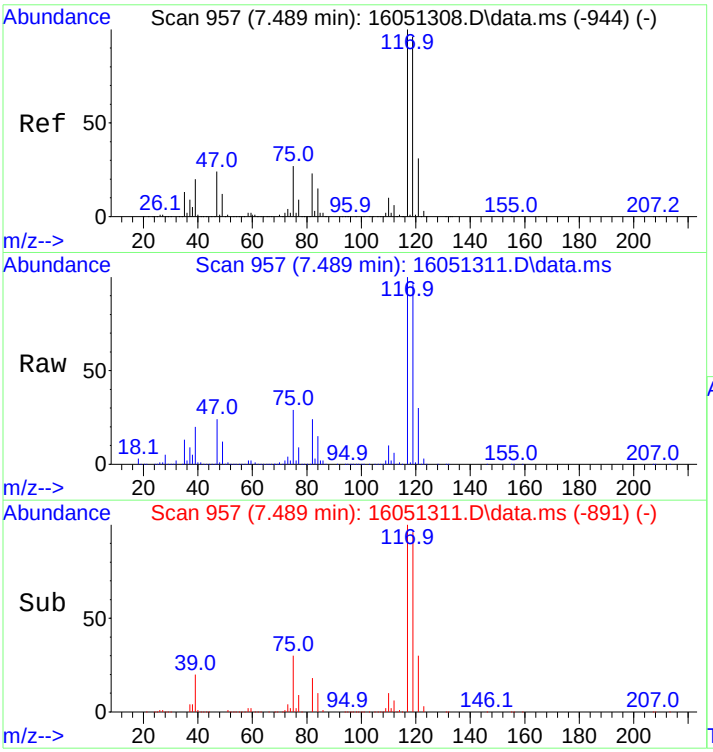


#19
1,1,1-Trichloroethane
Concen: 781.11 ng
RT: 7.226 min Scan# 922
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 97 Resp: 586951

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.3	76.9
61	47.3	37.6	56.4

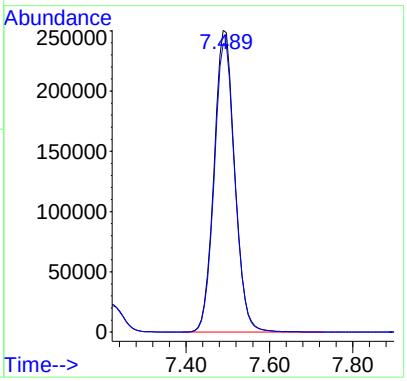


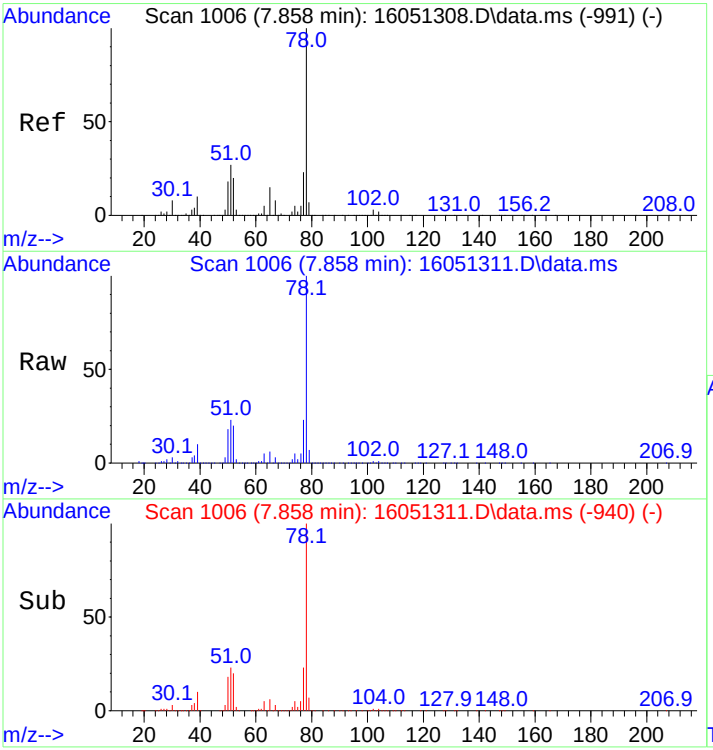


#22
Carbon Tetrachloride
Concen: 1027.82 ng
RT: 7.489 min Scan# 957
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:117 Resp: 865321

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.0	115.4

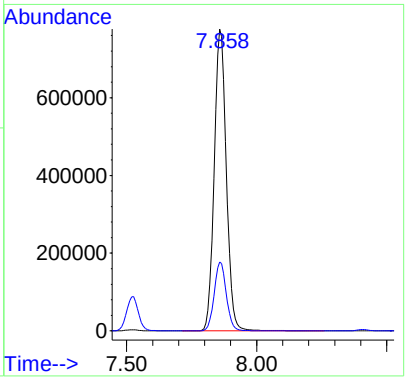


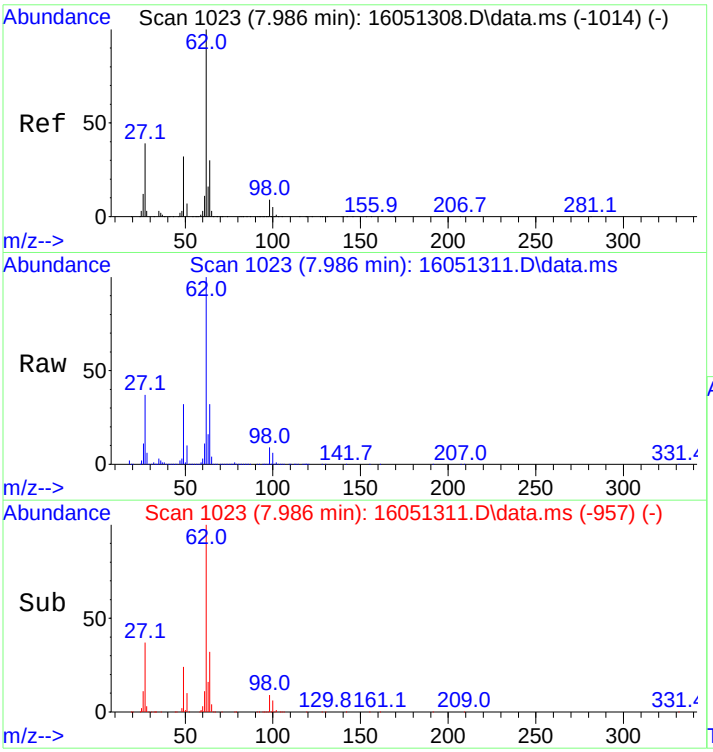


#23
Benzene
Concen: 788.94 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 78 Resp: 2516936

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

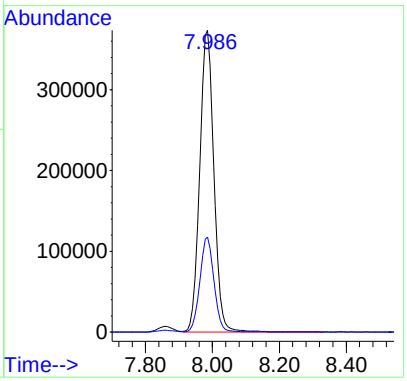


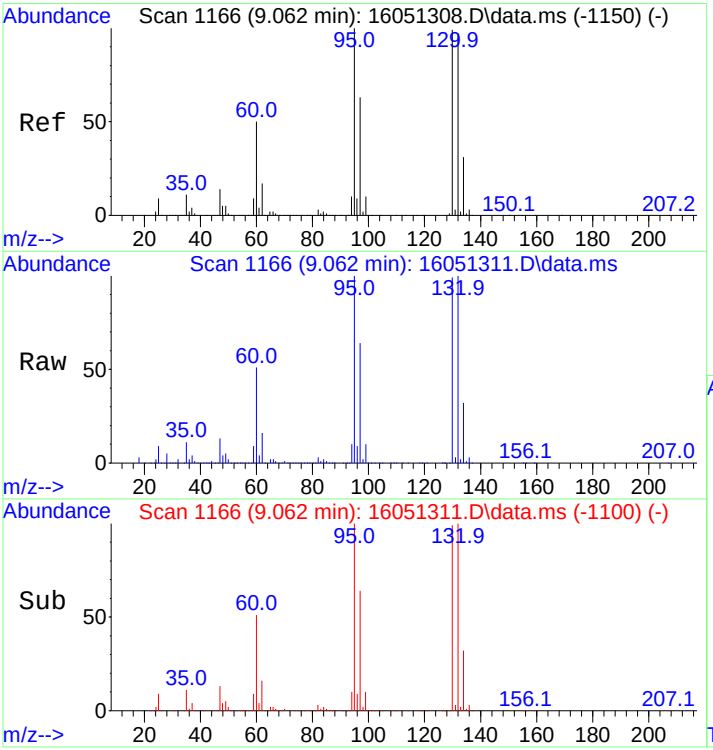


#24
1,2-Dichloroethane
Concen: 1204.56 ng
RT: 7.986 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 62 Resp: 1100090

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.8	37.2

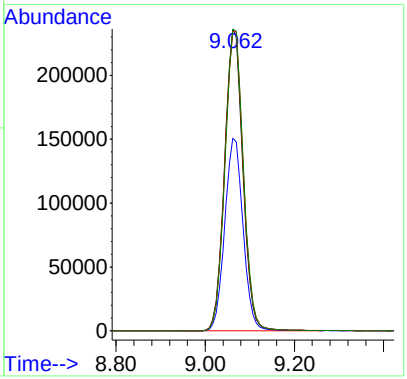


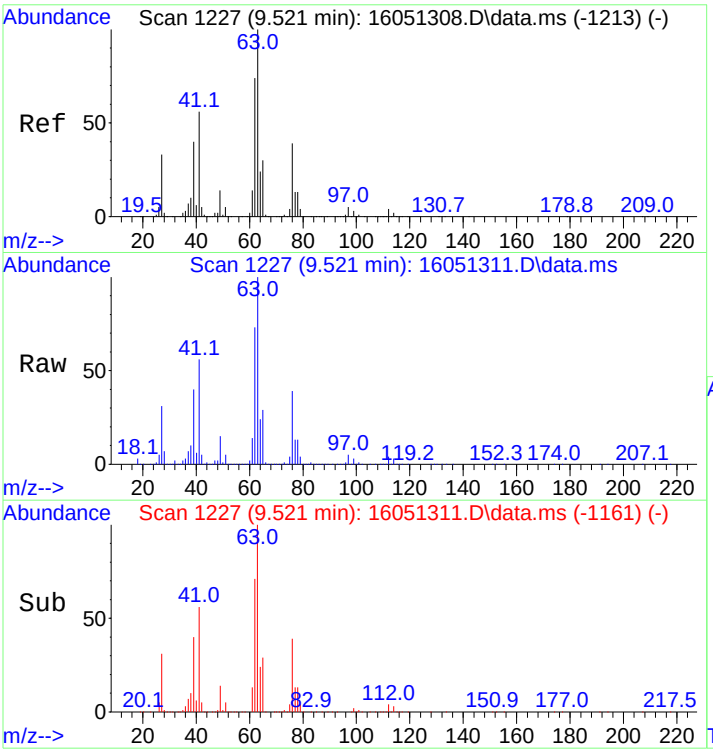


#25
Trichloroethene
Concen: 942.07 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 95 Resp: 673798

Ion	Ratio	Lower	Upper
95	100		
97	64.0	51.8	77.8
130	100.8	81.9	122.9
132	100.9	81.2	121.8

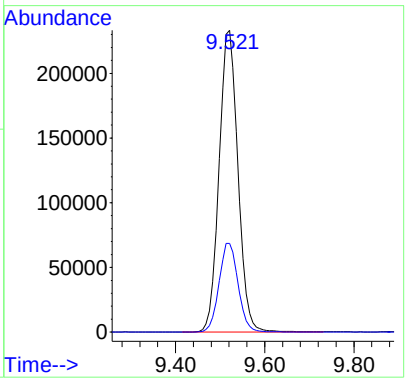


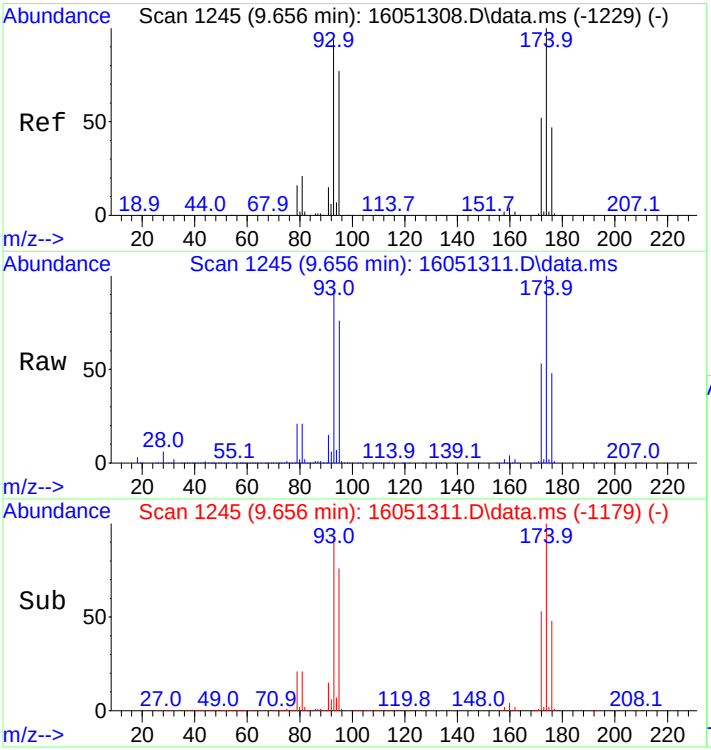


#26
1,2-Dichloropropane
Concen: 933.92 ng
RT: 9.521 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 63 Resp: 682950

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.2	36.2

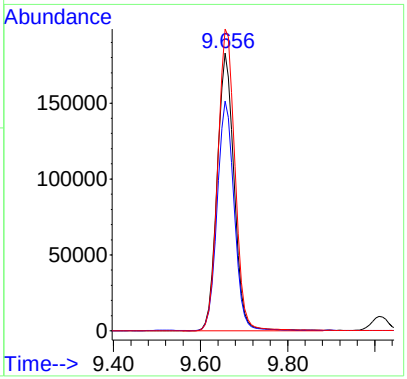


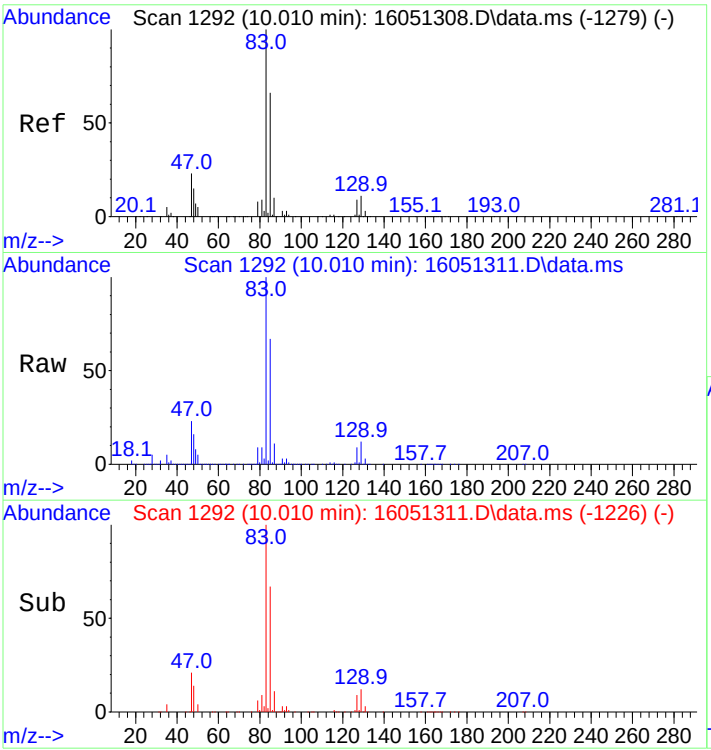


#27
Dibromomethane
Concen: 1208.10 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 93 Resp: 494841

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	110.8	85.5	128.3

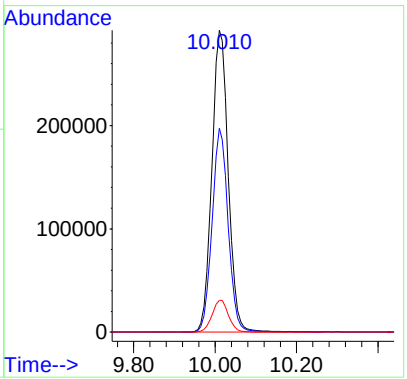


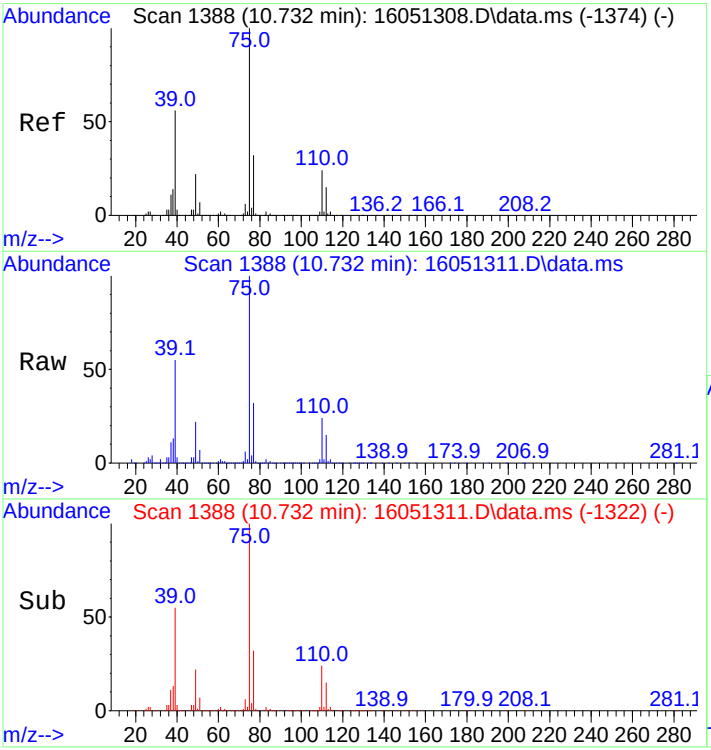


#28
Bromodichloromethane
Concen: 1023.91 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 815292

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.5	78.7
87	10.6	8.3	12.5

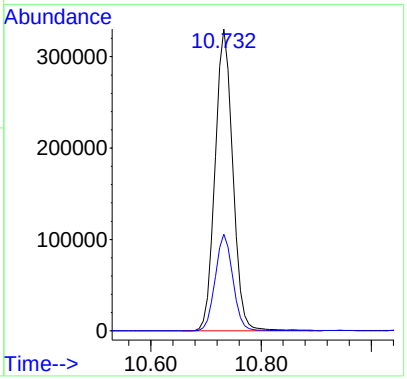


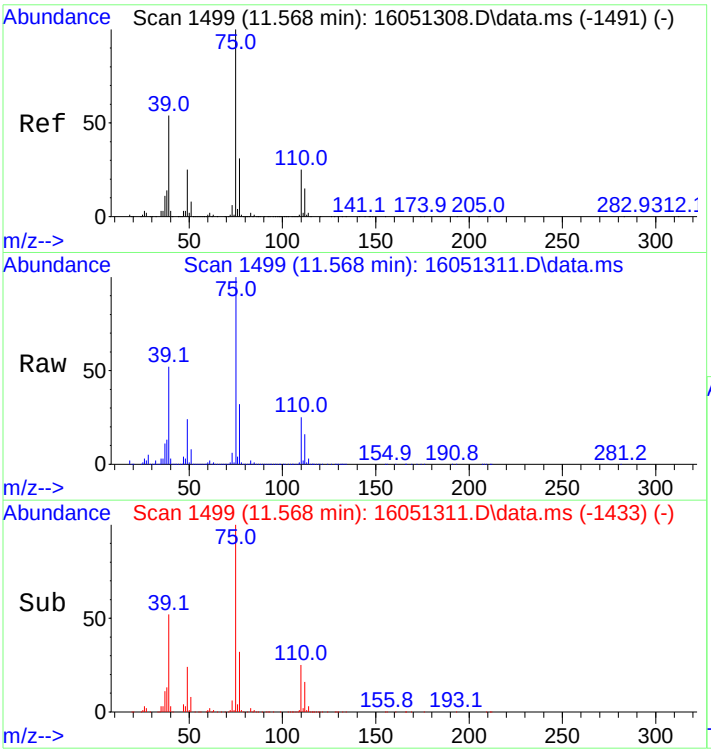


#29
cis,1,3-Dichloropropene
Concen: 904.87 ng
RT: 10.732 min Scan# 1388
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 738135

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4

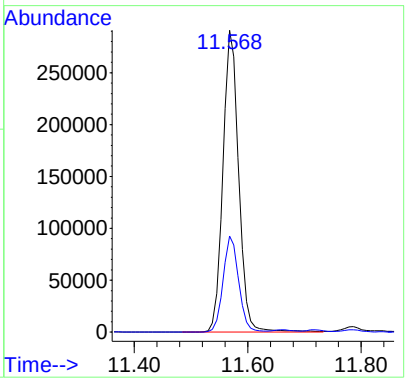


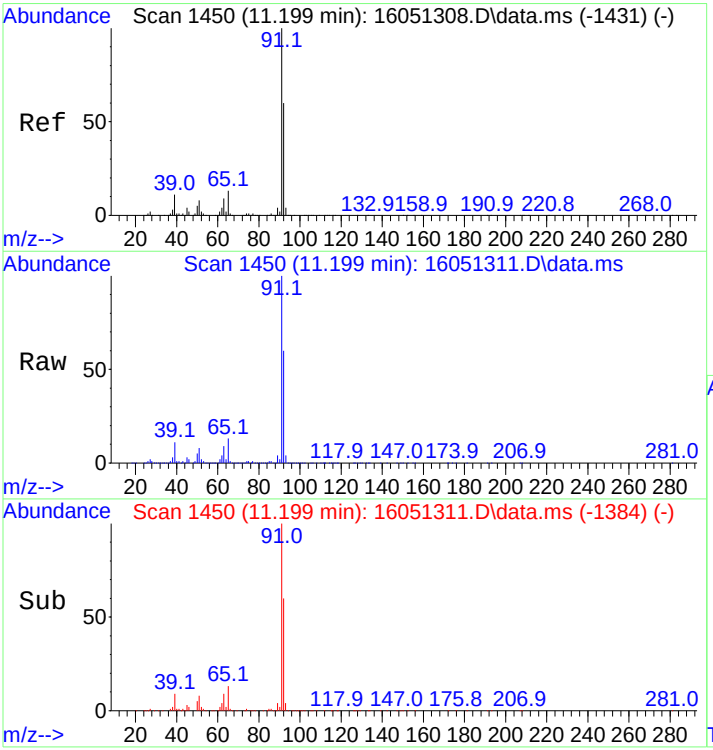


#30
trans,1,3-Dichloropropene
Concen: 1010.05 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 560398

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

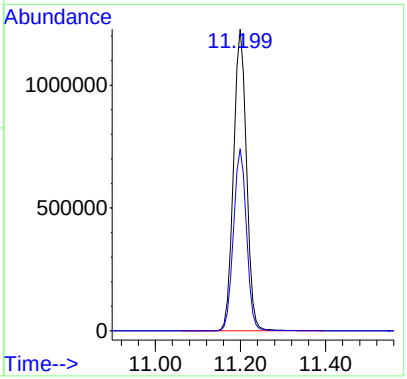


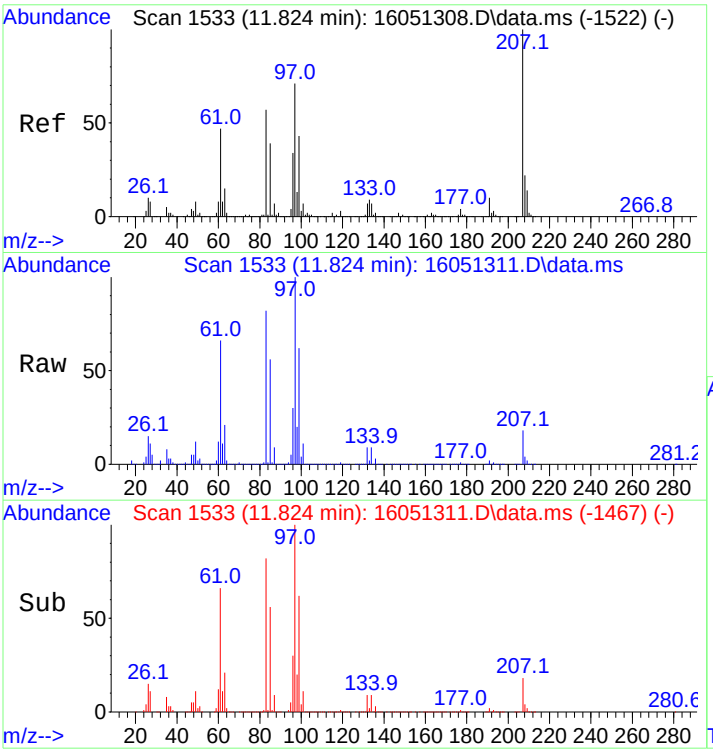


#33
Toluene
Concen: 961.09 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2610914

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.6	73.0

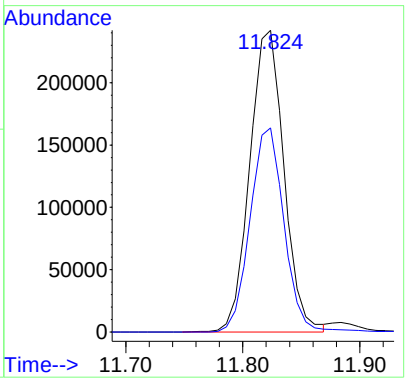


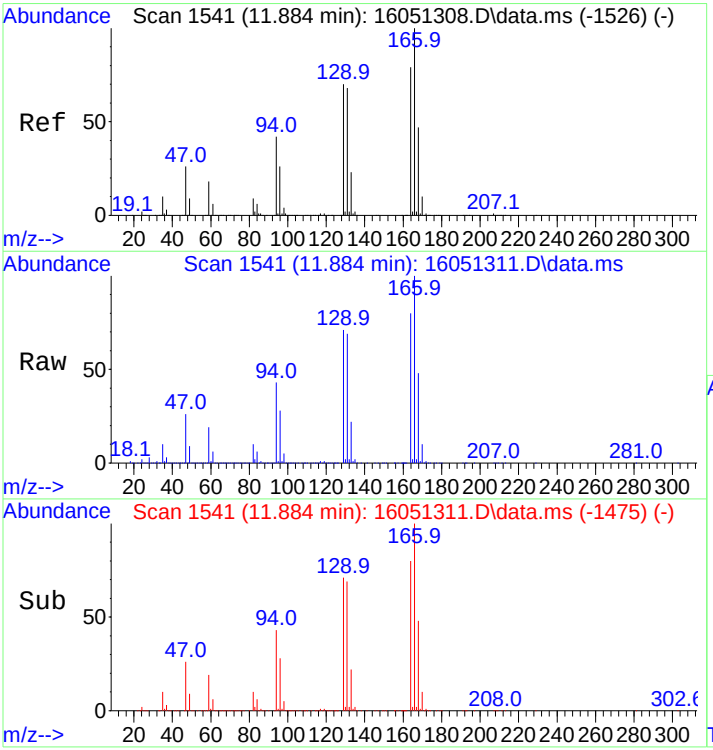


#34
1,1,2-Trichloroethane
Concen: 1044.15 ng
RT: 11.824 min Scan# 1533
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 490220

Ion	Ratio	Lower	Upper
83	100		
85	67.5	54.7	82.1

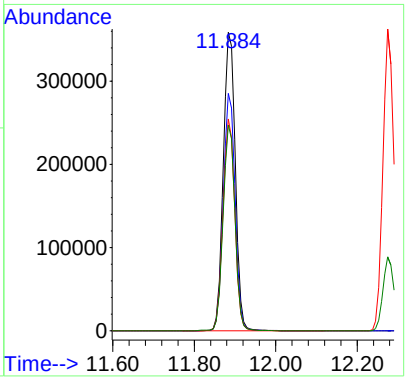


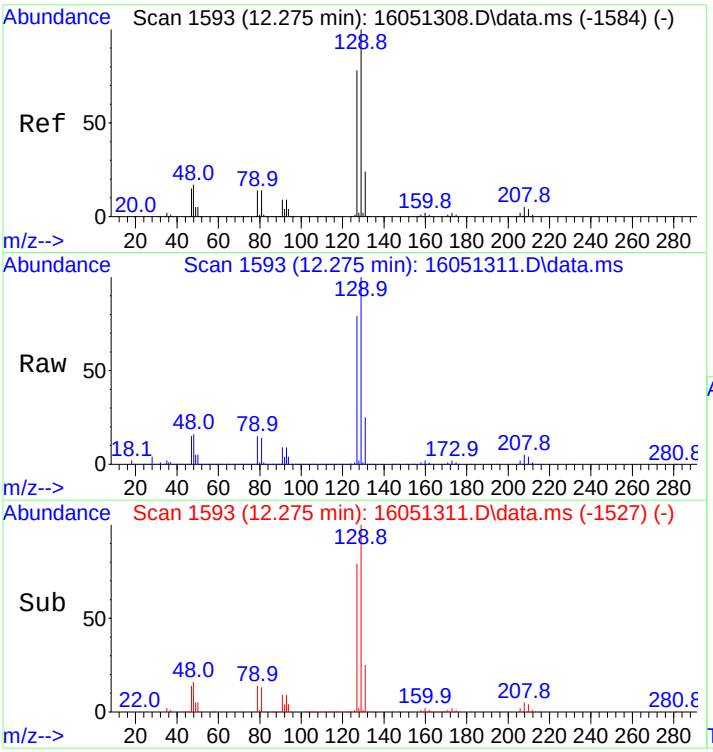


#35
Tetrachloroethene
Concen: 1028.76 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:166 Resp: 731947

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.2	94.8
129	69.9	55.5	83.3
131	68.3	55.2	82.8

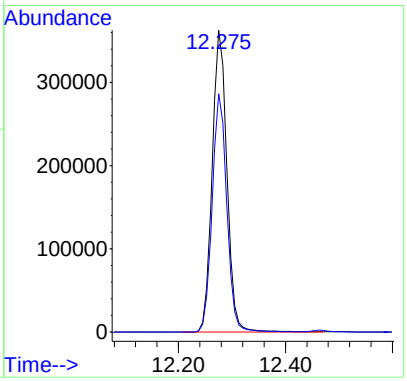


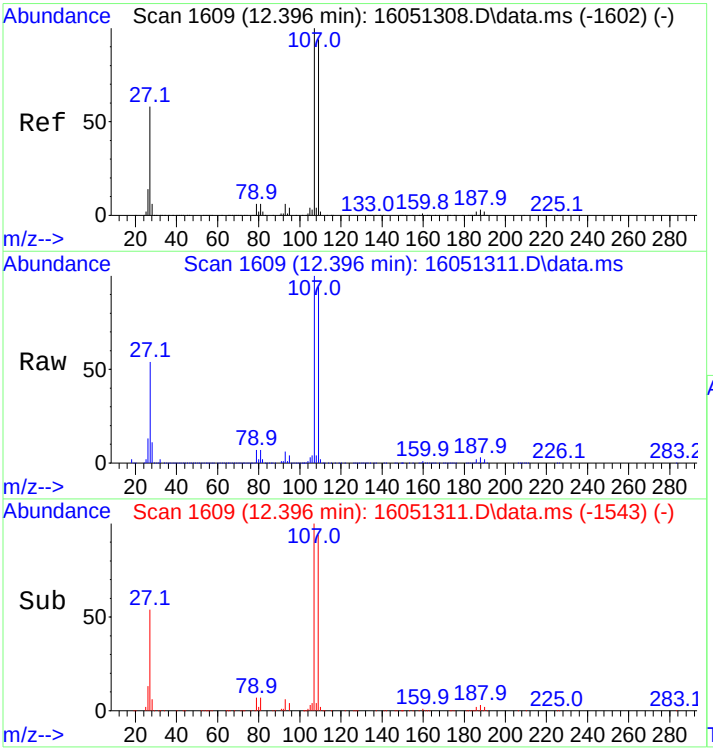


#37
Chlorodibromomethane
Concen: 1088.04 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:129 Resp: 692848

Ion	Ratio	Lower	Upper
129	100		
127	78.3	62.3	93.5

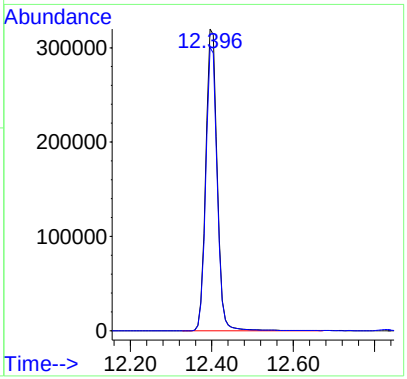


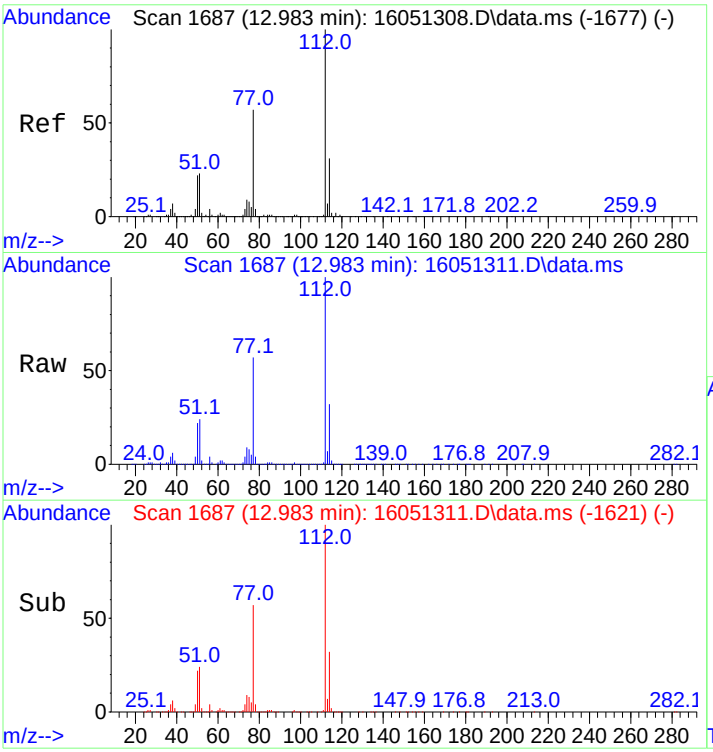


#38
Ethylene Dibromide
Concen: 1069.02 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:107 Resp: 621385

Ion	Ratio	Lower	Upper
107	100		
109	93.9	74.3	111.5

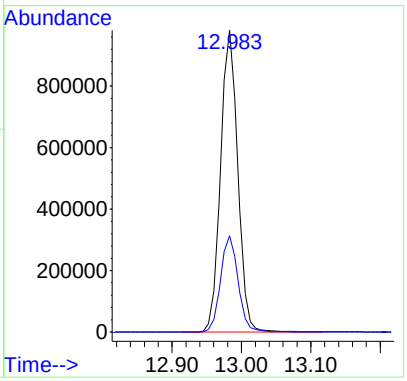


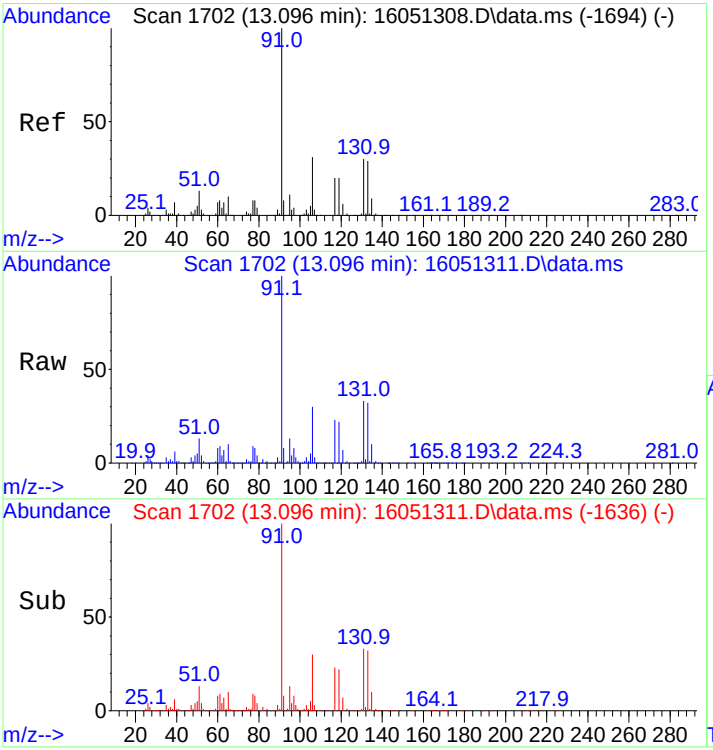


#39
Chlorobenzene
Concen: 1013.82 ng
RT: 12.983 min Scan# 1687
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:112 Resp: 1692369

Ion	Ratio	Lower	Upper
112	100		
114	32.5	27.5	41.3

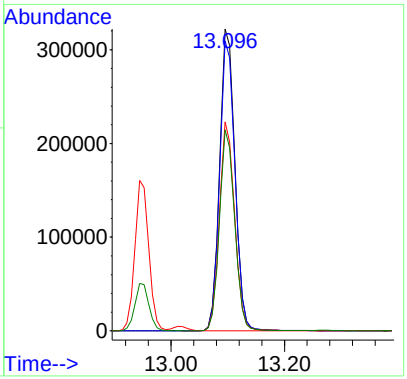


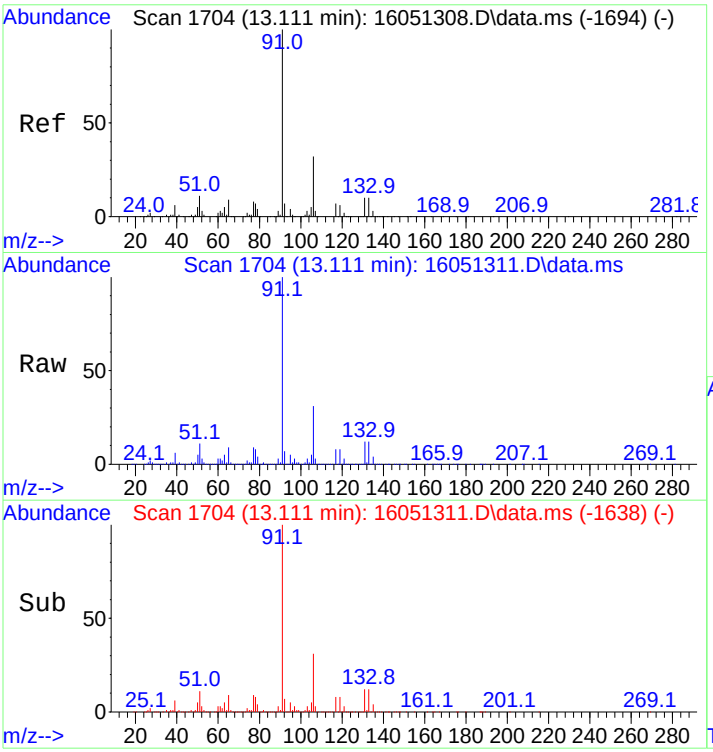


#40
1,1,1,2-Tetrachloroethane
Concen: 1020.61 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:131 Resp: 604663

Ion	Ratio	Lower	Upper
131	100		
133	96.2	77.8	116.6
117	69.0	57.1	85.7
119	66.0	54.3	81.5

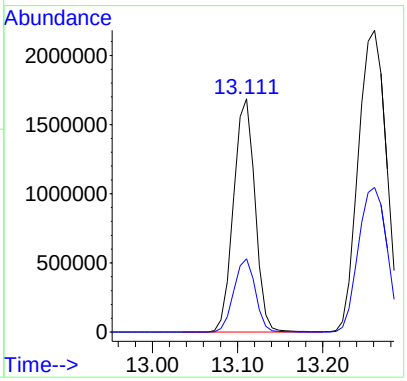


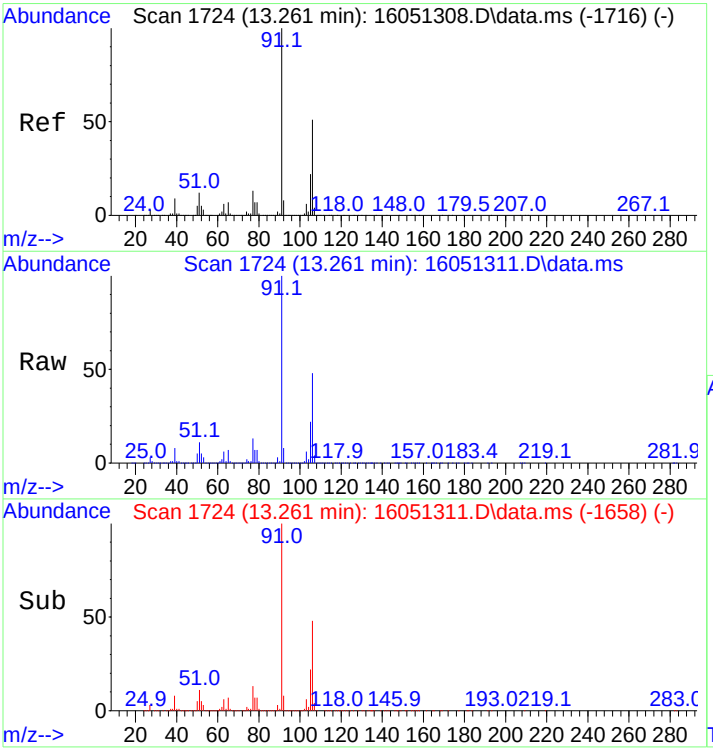


#41
Ethylbenzene
Concen: 960.74 ng
RT: 13.111 min Scan# 1704
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2965021

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.5	38.3

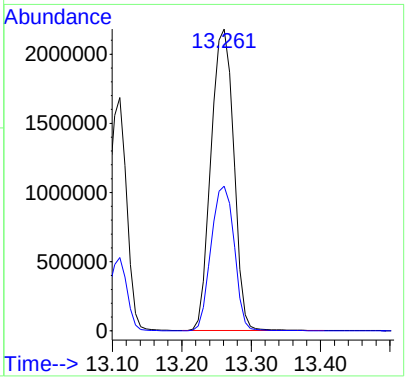


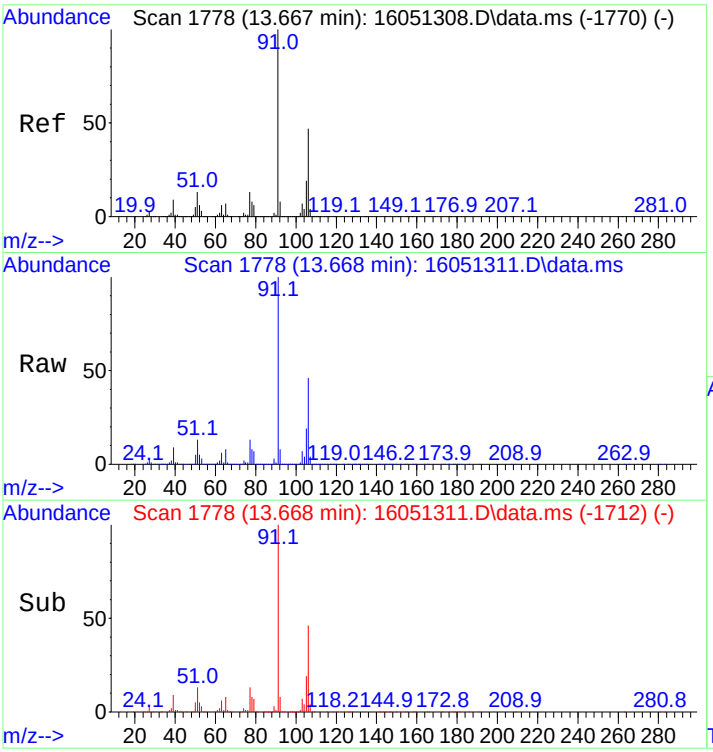


#42
M&P-Xylene
Concen: 1897.64 ng
RT: 13.261 min Scan# 1724
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 4979931

Ion	Ratio	Lower	Upper
91	100		
106	48.8	40.4	60.6

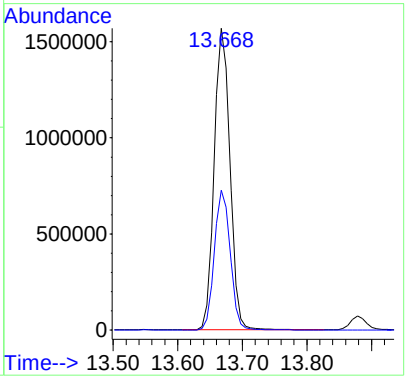


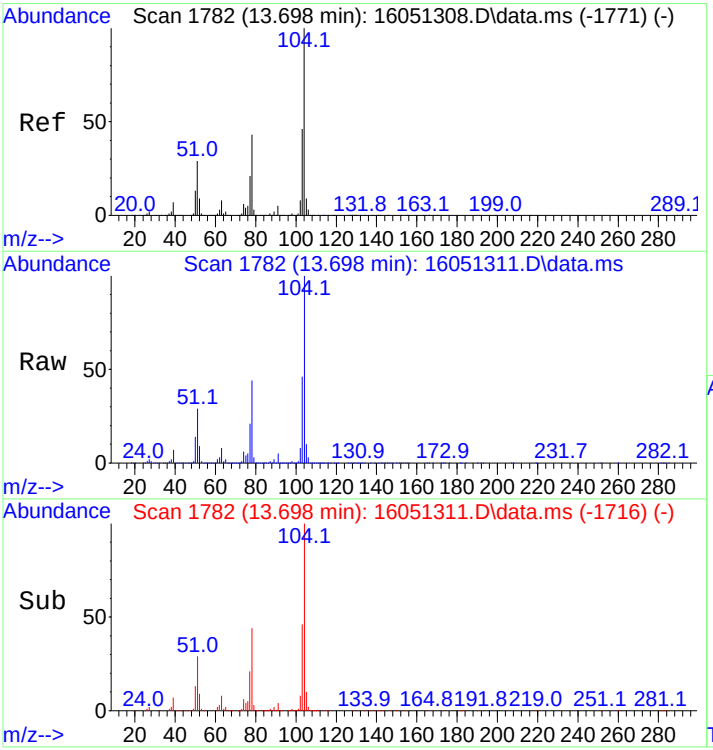


#43
O-Xylene
Concen: 978.33 ng
RT: 13.668 min Scan# 1778
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2661631

Ion	Ratio	Lower	Upper
91	100		
106	46.8	38.2	57.2

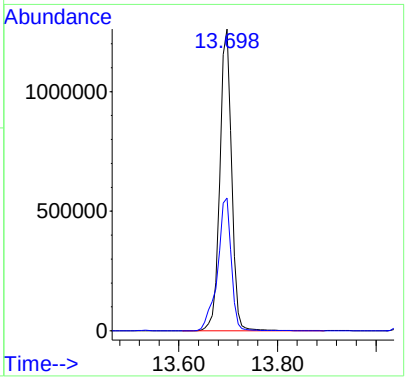


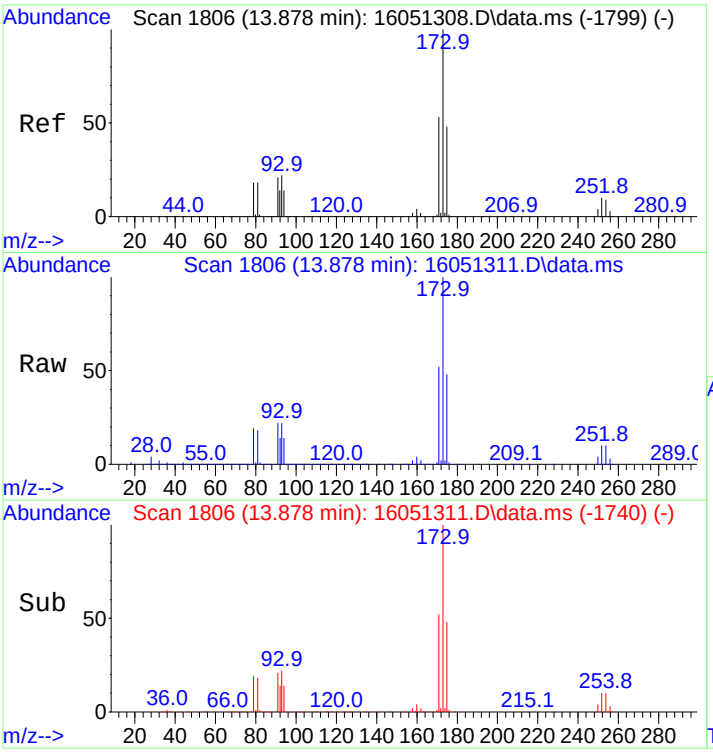


#44
Styrene
Concen: 906.73 ng
RT: 13.698 min Scan# 1782
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:104 Resp: 2105719

Ion	Ratio	Lower	Upper
104	100		
78	51.1	39.8	59.6

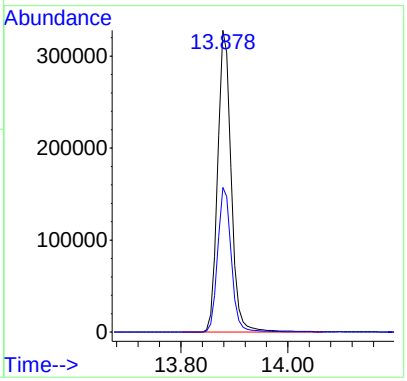


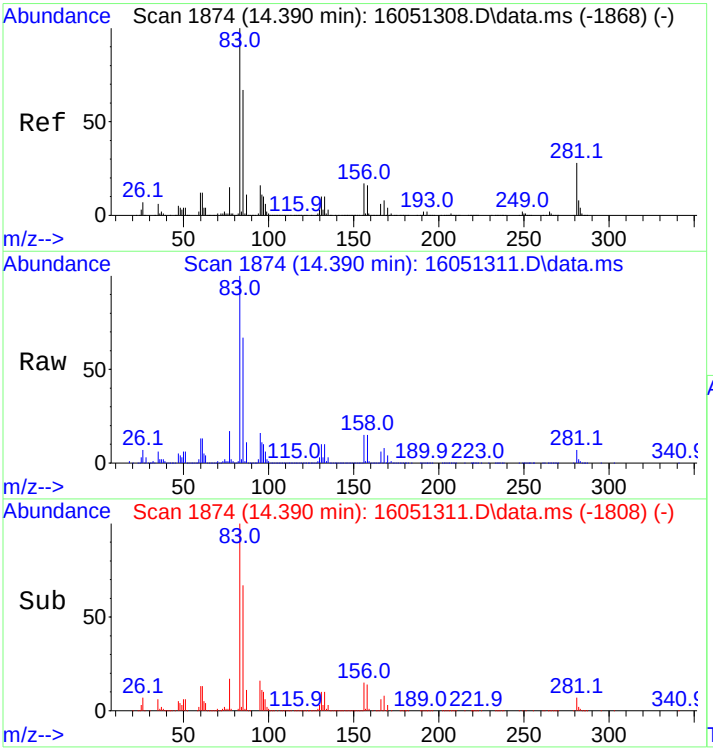


#45
Bromoform
Concen: 1146.80 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:173 Resp: 575542

Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.5	57.7

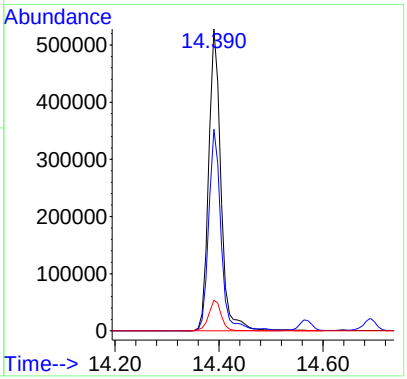


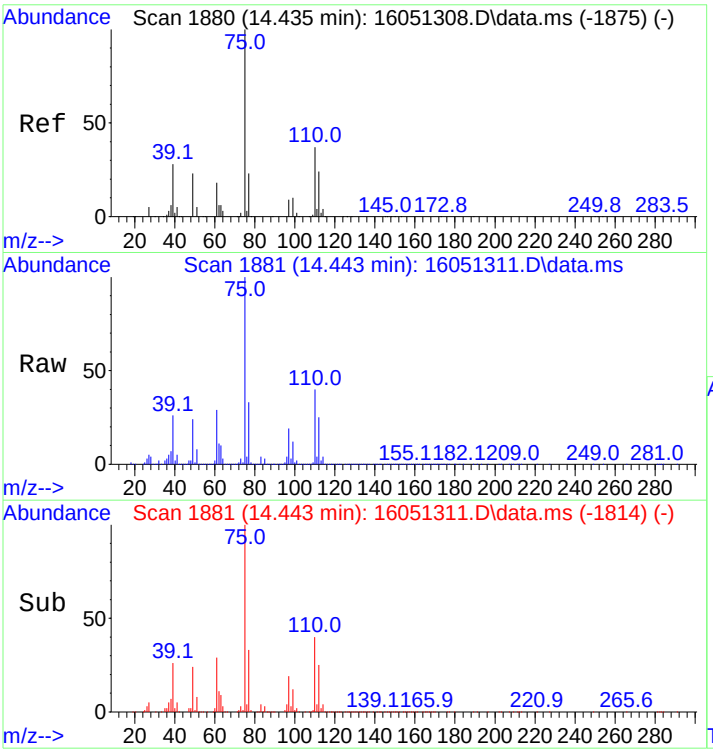


#46
1,1,2,2-Tetrachloroethane
Concen: 1091.22 ng
RT: 14.390 min Scan# 1874
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 83 Resp: 865484

Ion	Ratio	Lower	Upper
83	100		
85	66.1	53.1	79.7
131	10.6	8.9	13.3

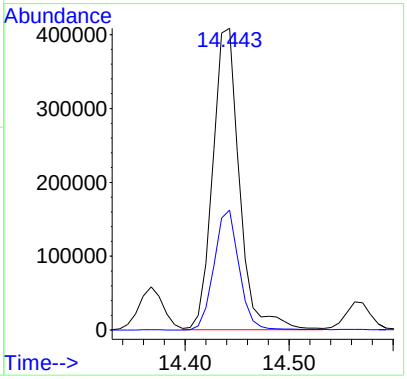


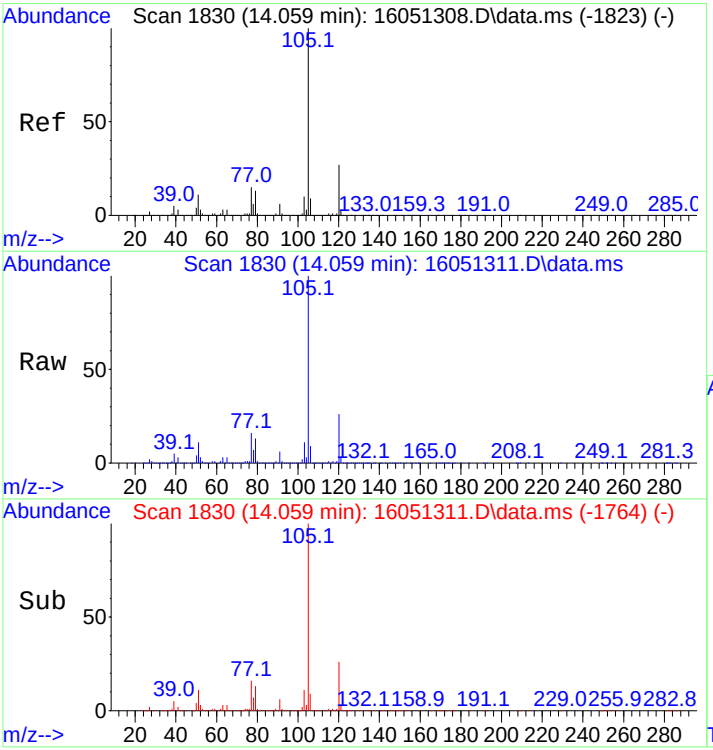


#47
1,2,3-Trichloropropane
Concen: 1110.17 ng
RT: 14.443 min Scan# 1881
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 727363

Ion	Ratio	Lower	Upper
75	100		
110	37.6	30.5	45.7

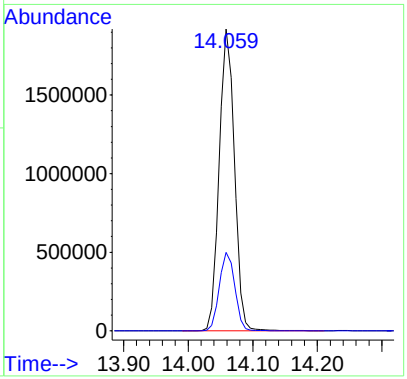


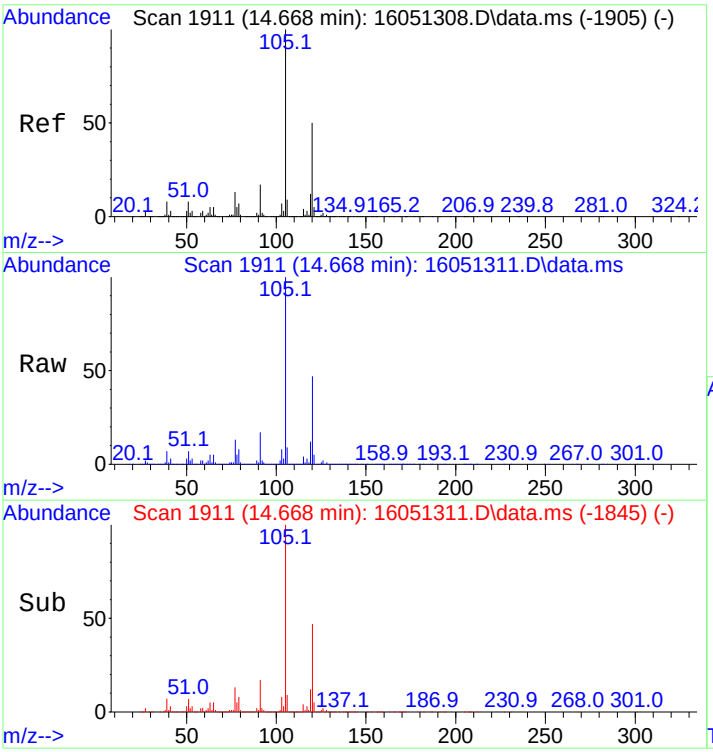


#51
Isopropylbenzene
Concen: 992.48 ng
RT: 14.059 min Scan# 1830
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 3138079

Ion	Ratio	Lower	Upper
105	100		
120	26.5	21.4	32.2

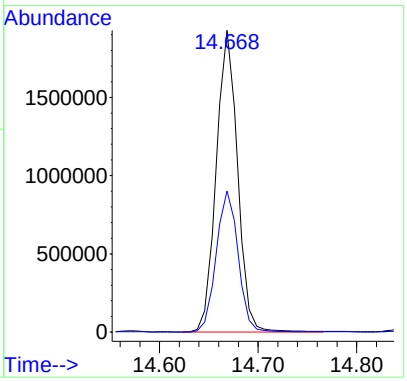


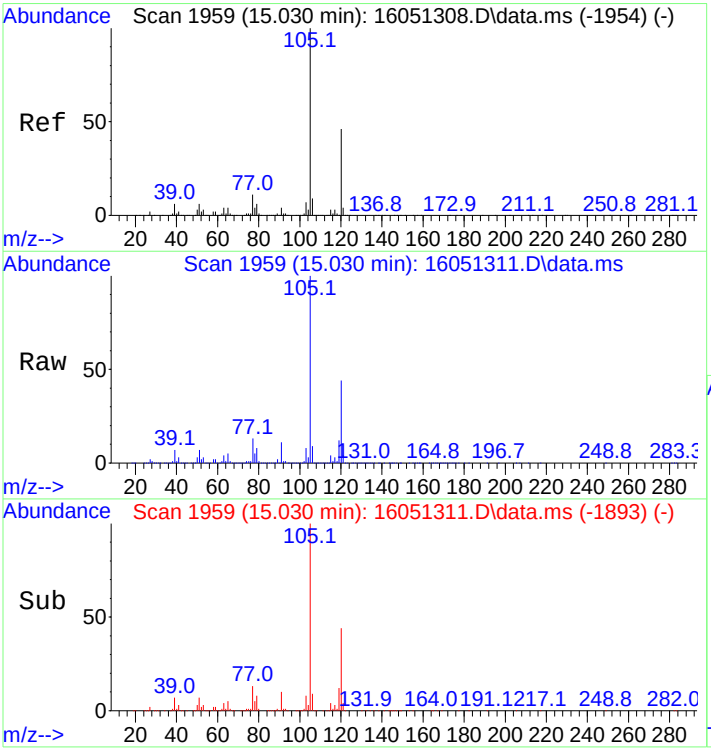


#52
1,3,5-Trimethylbenzene
Concen: 941.88 ng
RT: 14.668 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 2902373

Ion	Ratio	Lower	Upper
105	100		
120	48.1	39.9	59.9

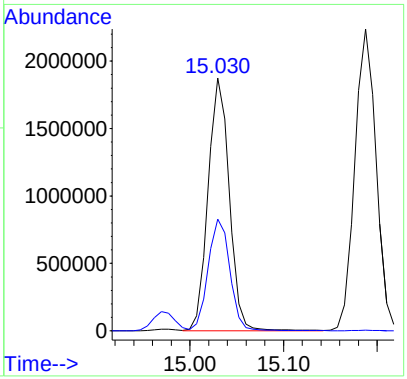


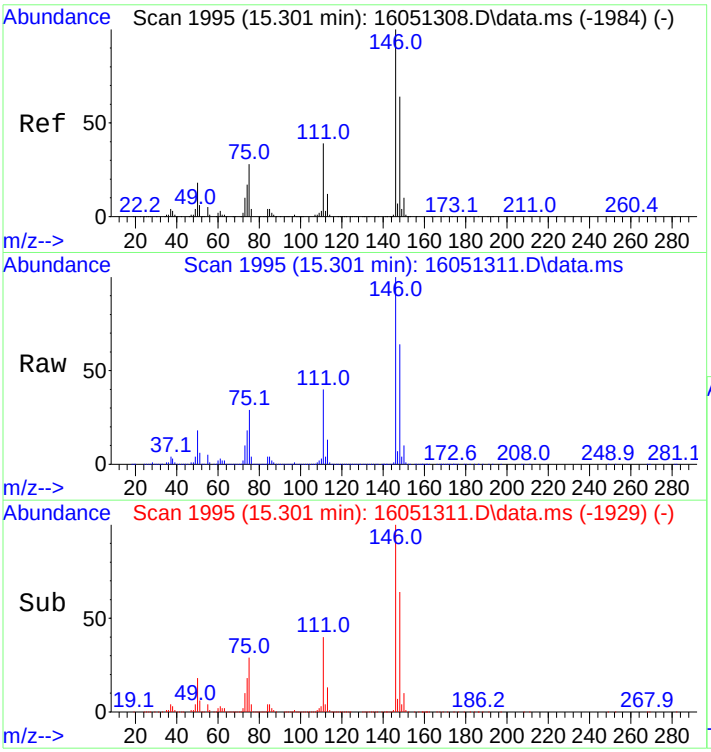


#53
1,2,4-Trimethylbenzene
Concen: 969.12 ng
RT: 15.030 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 2948653

Ion	Ratio	Lower	Upper
105	100		
120	45.3	37.5	56.3

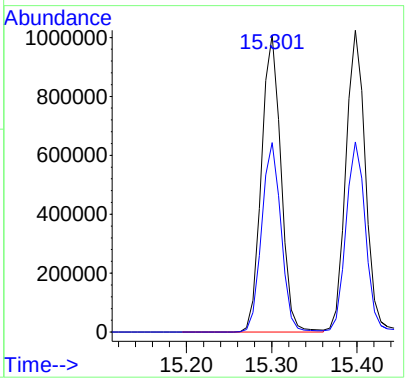


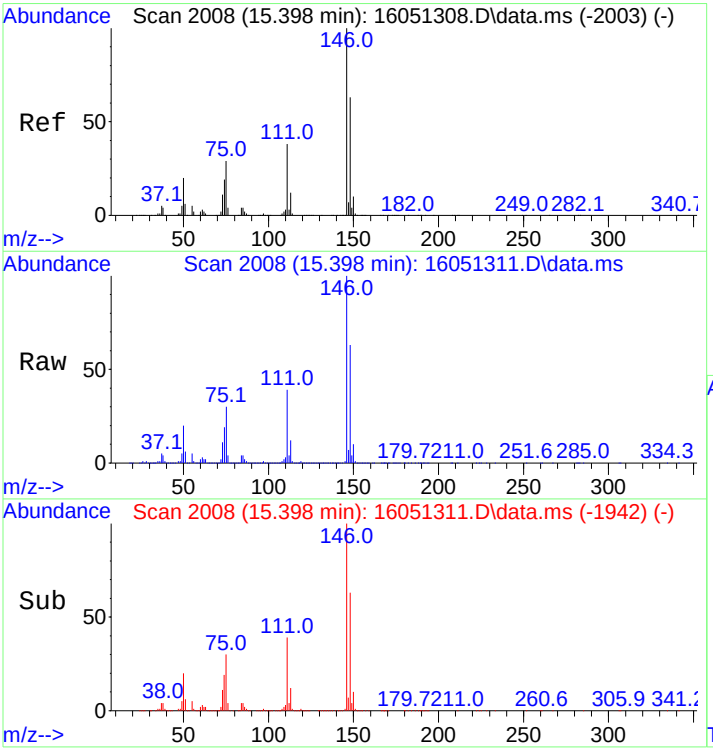


#54
1,3-Dichlorobenzene
Concen: 1012.98 ng
RT: 15.301 min Scan# 1995
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:146 Resp: 1608512

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	76.0

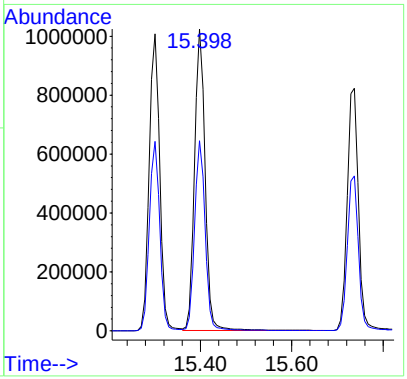


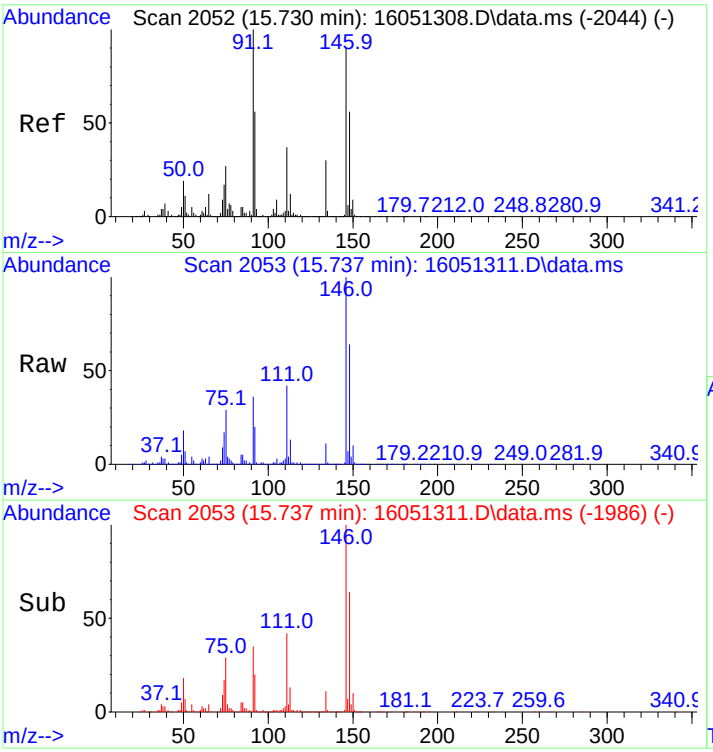


#55
1,4-Dichlorobenzene
Concen: 986.65 ng
RT: 15.398 min Scan# 2008
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:146 Resp: 1656010

Ion	Ratio	Lower	Upper
146	100		
148	63.2	49.9	74.9

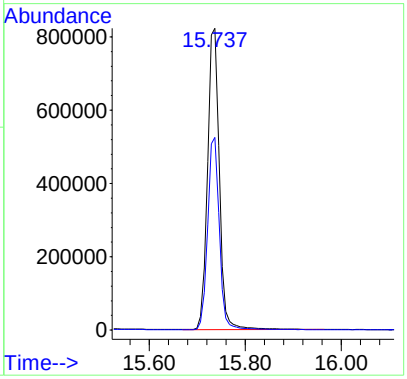


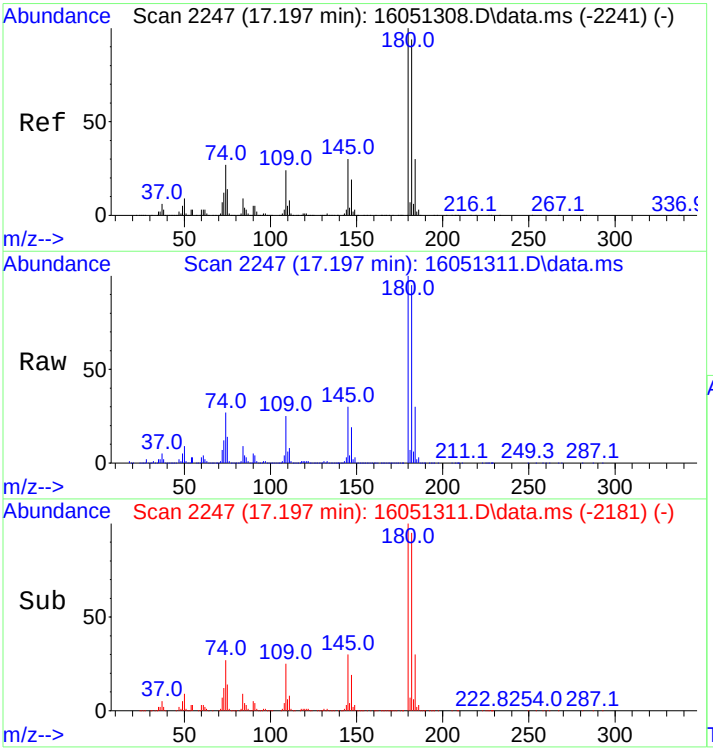


#56
1,2-Dichlorobenzene
Concen: 938.55 ng
RT: 15.737 min Scan# 2053
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:146 Resp: 1409587

Ion	Ratio	Lower	Upper
146	100		
148	63.6	49.9	74.9

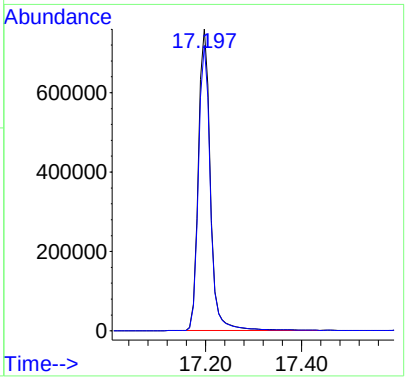


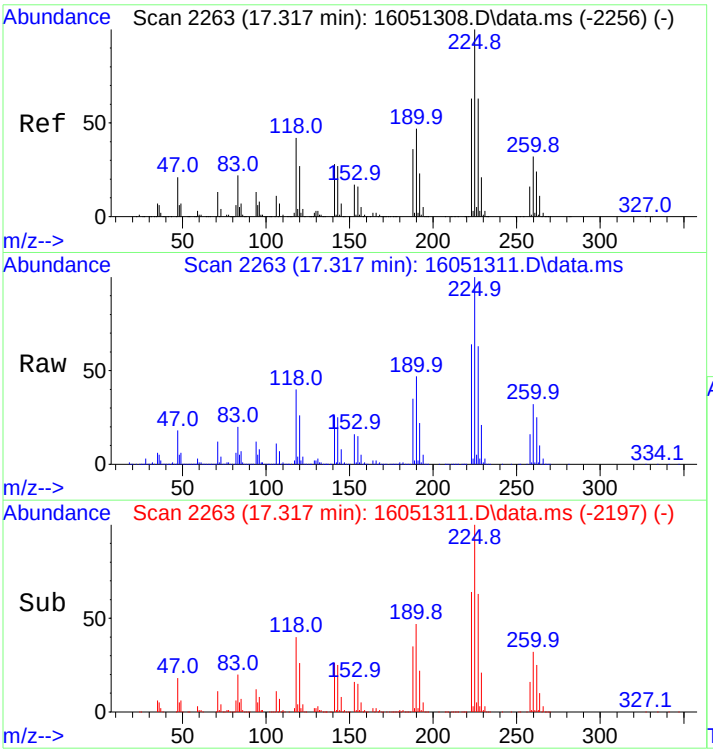


#57
1,2,4-Trichlorobenzene
Concen: 1039.78 ng
RT: 17.197 min Scan# 2247
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:180 Resp: 1324499

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.0	112.4

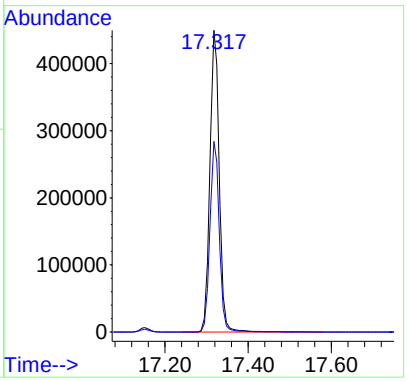


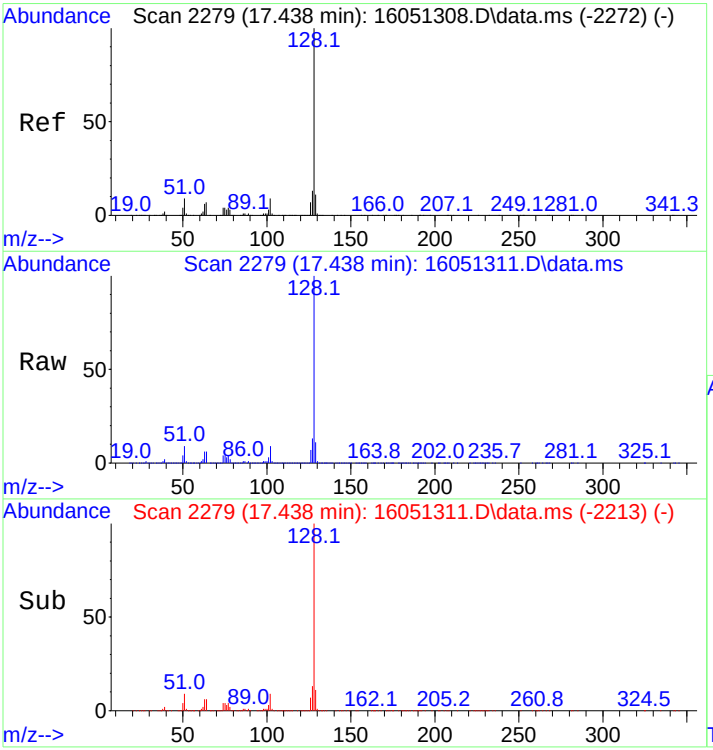


#58
Hexachlorobutadiene
Concen: 1053.74 ng
RT: 17.317 min Scan# 2263
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:225 Resp: 705554

Ion	Ratio	Lower	Upper
225	100		
227	63.3	51.1	76.7

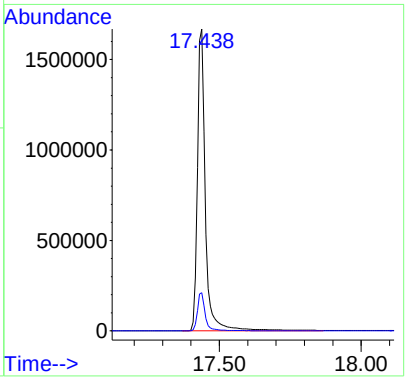


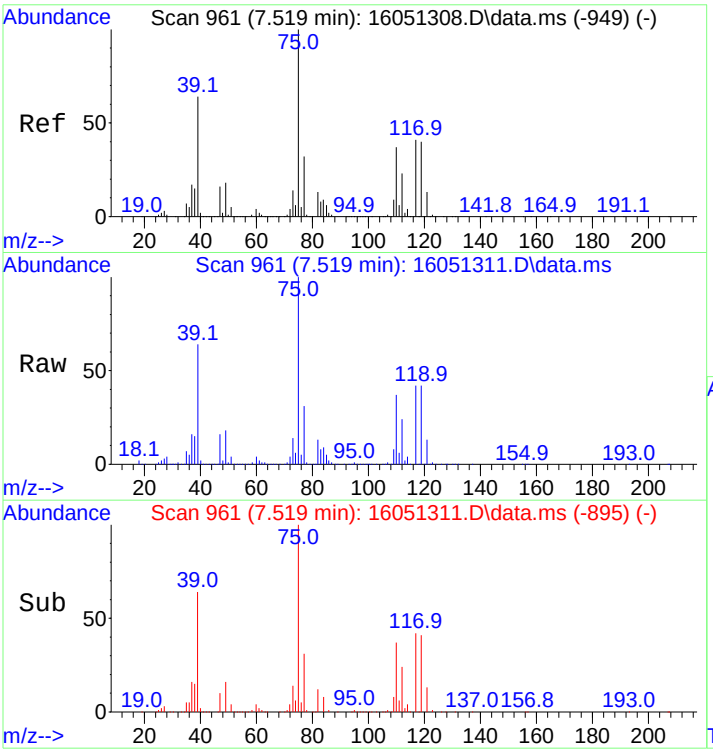


#59
Naphthalene
Concen: 1042.34 ng
RT: 17.438 min Scan# 2279
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:128 Resp: 3259027

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

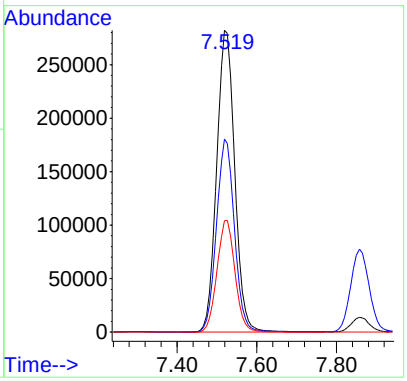


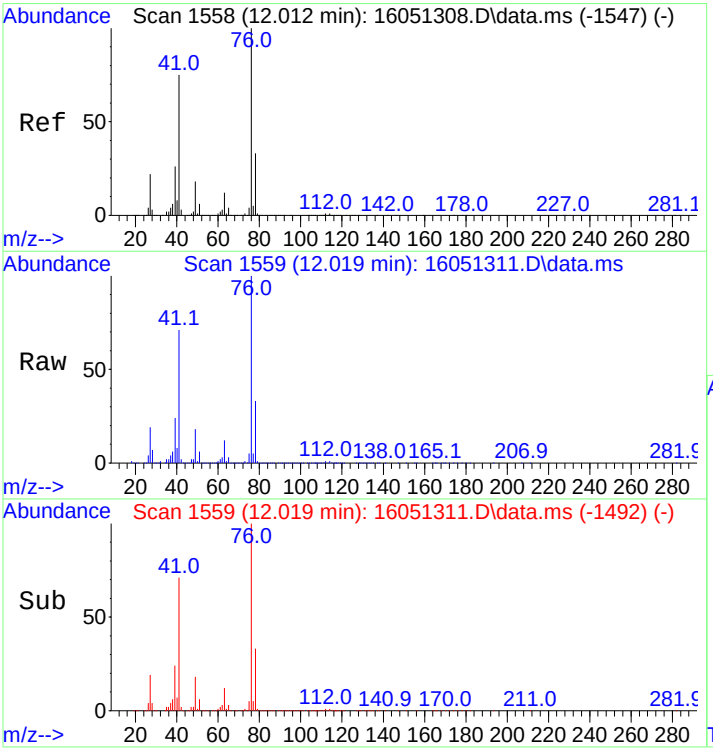


#60
1,1-Dichloropropene
Concen: 1021.00 ng
RT: 7.519 min Scan# 961
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 75 Resp: 888759

Ion	Ratio	Lower	Upper
75	100		
39	63.6	51.8	77.6
110	37.0	29.3	43.9

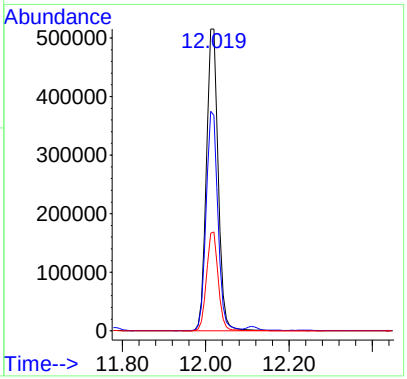


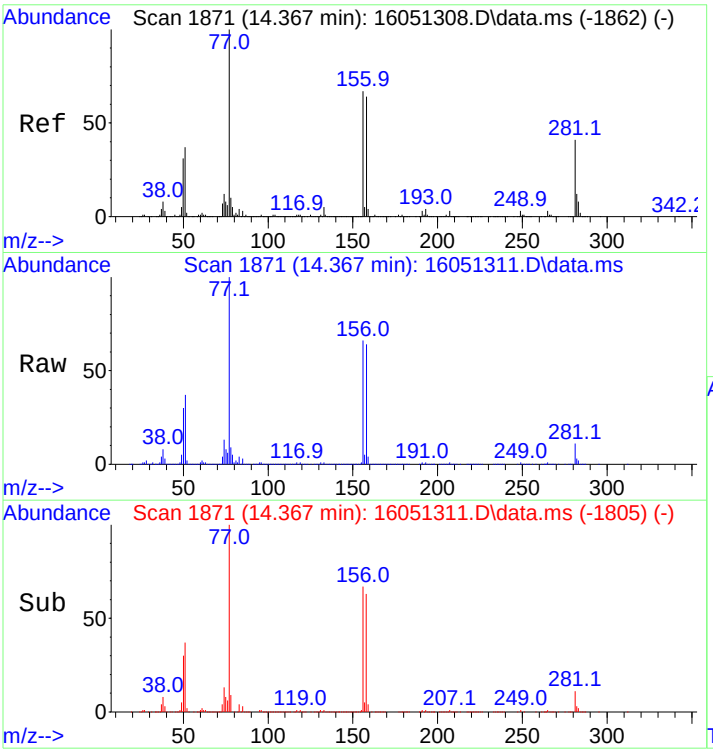


#61
1,3-Dichloropropane
Concen: 1050.16 ng
RT: 12.019 min Scan# 1559
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 76 Resp: 1019563

Ion	Ratio	Lower	Upper
76	100		
41	72.4	58.2	87.4
78	32.5	26.1	39.1

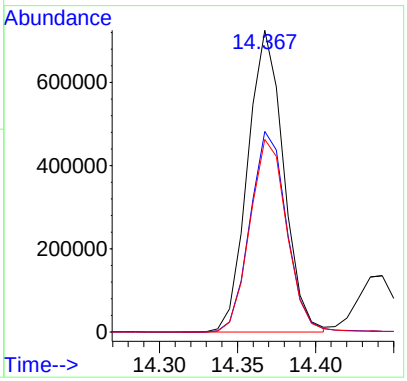


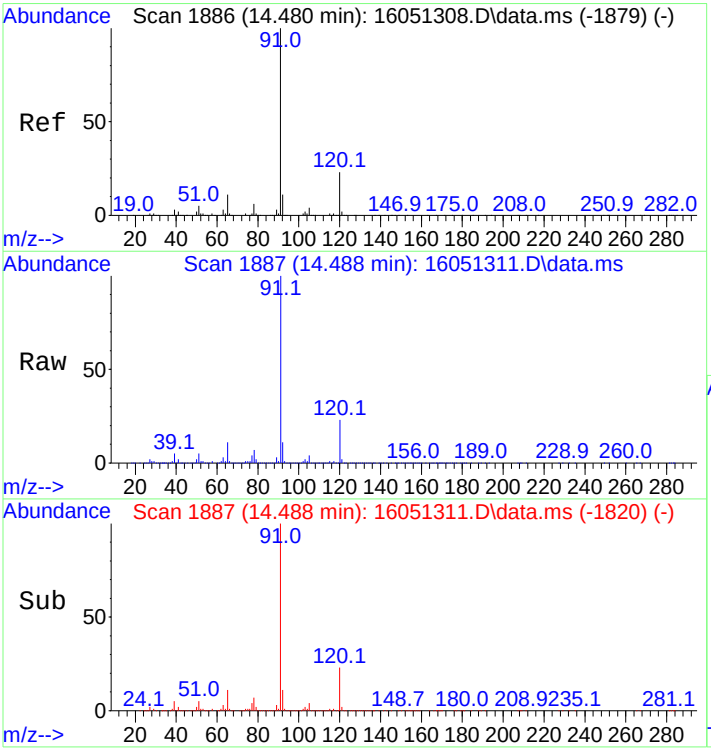


#62
Bromobenzene
Concen: 1028.97 ng
RT: 14.367 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 77 Resp: 1157841

Ion	Ratio	Lower	Upper
77	100		
156	68.5	55.0	82.4
158	66.2	53.3	79.9

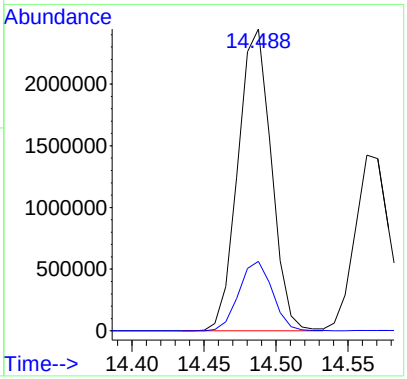


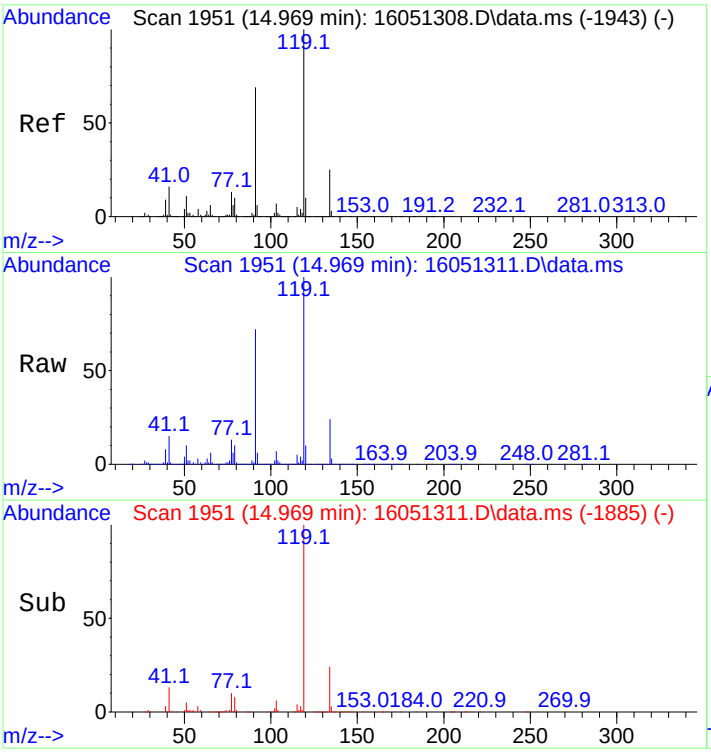


#63
n-Propylbenzene
Concen: 982.15 ng
RT: 14.488 min Scan# 1887
Delta R.T. 0.008 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 3930003

Ion	Ratio	Lower	Upper
91	100		
120	23.1	18.6	28.0

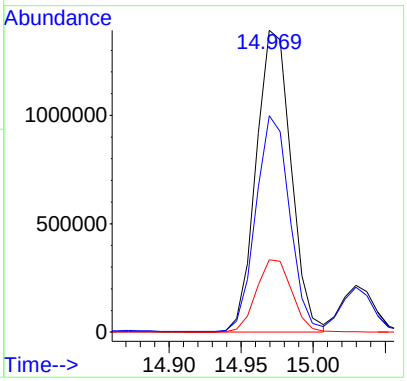


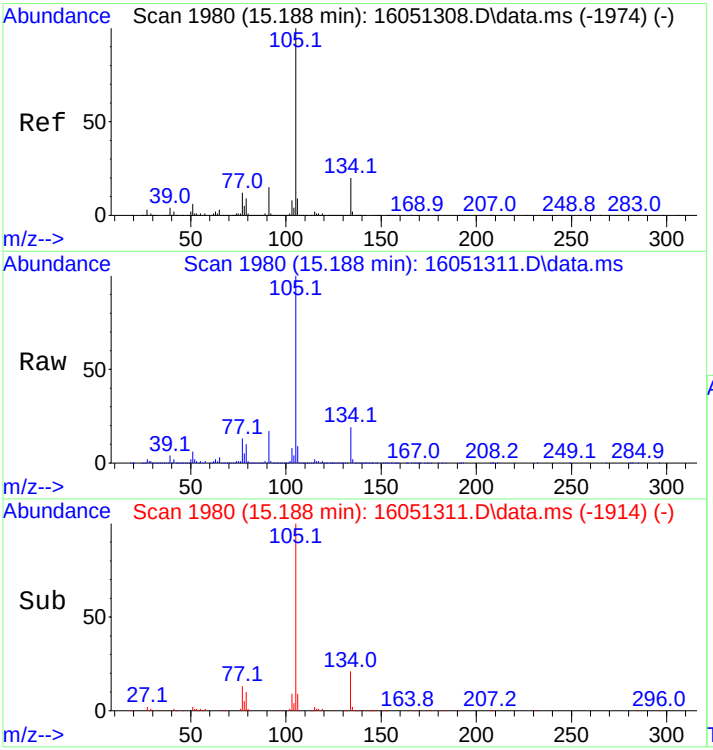


#64
tert-Butylbenzene
Concen: 977.33 ng
RT: 14.969 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:119 Resp: 2341052

Ion	Ratio	Lower	Upper
119	100		
91	69.2	54.0	81.0
134	24.5	19.9	29.9

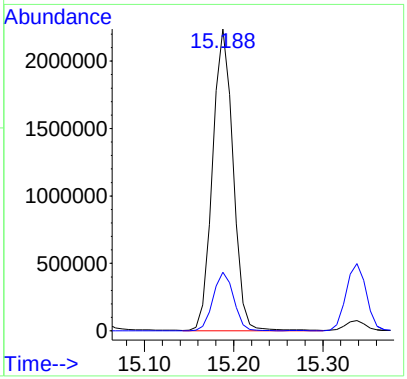


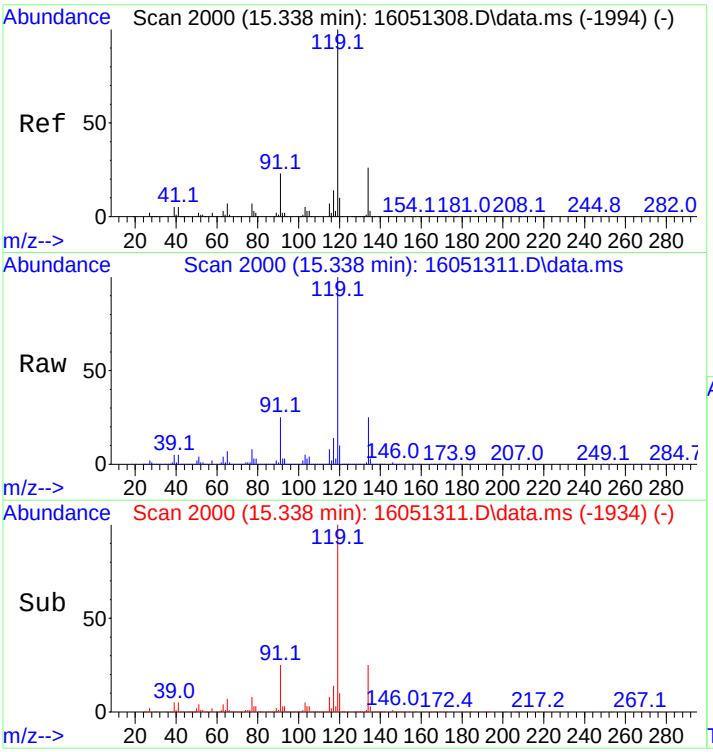


#65
sec-Butylbenzene
Concen: 967.23 ng
RT: 15.188 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:105 Resp: 3570293

Ion	Ratio	Lower	Upper
105	100		
134	19.5	15.7	23.5

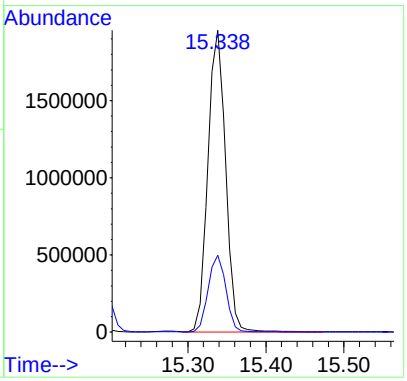


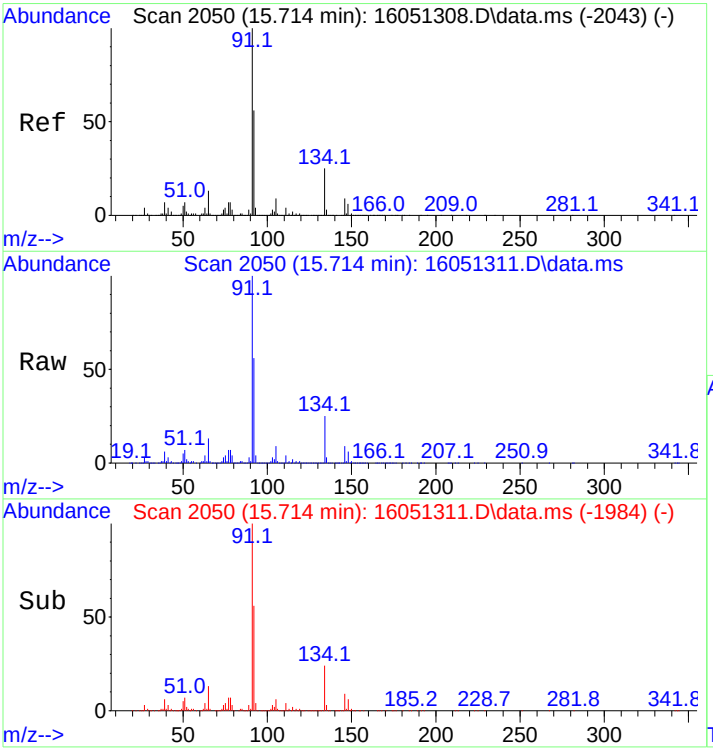


#66
p-Isopropyltoluene
Concen: 947.42 ng
RT: 15.338 min Scan# 2000
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:119 Resp: 3083078

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0

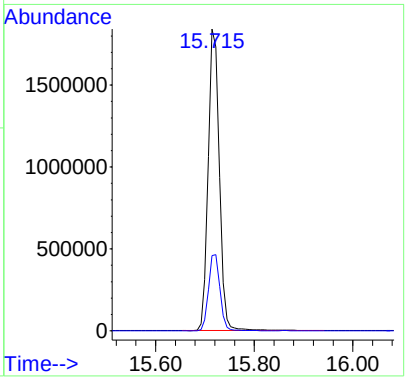


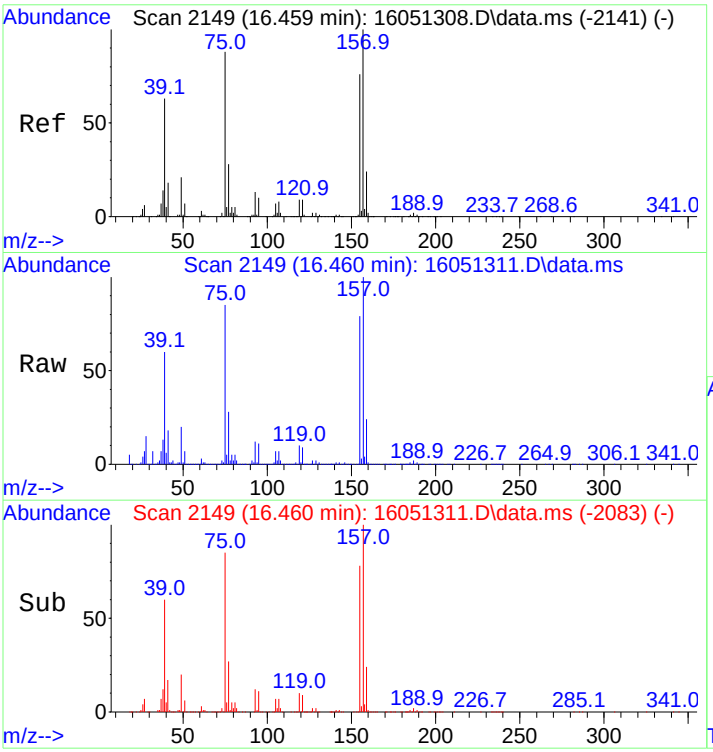


#67
n-Butylbenzene
Concen: 921.59 ng
RT: 15.714 min Scan# 2050
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion: 91 Resp: 2899368

Ion	Ratio	Lower	Upper
91	100		
134	25.9	21.0	31.6

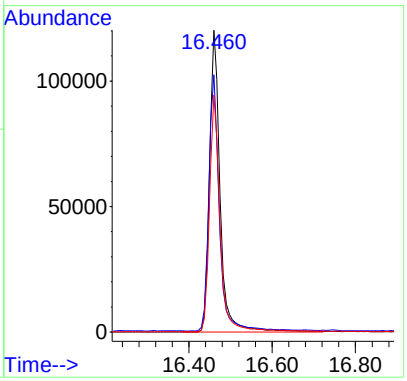




#68
1,2-Dibromo-3-chloropropane
Concen: 1086.24 ng
RT: 16.460 min Scan# 2149
Delta R.T. 0.000 min
Lab File: 16051311.D
Acq: 13 May 2016 5:20 pm

Tgt Ion:157 Resp: 214586

Ion	Ratio	Lower	Upper
157	100		
75	84.3	68.6	103.0
155	78.5	62.2	93.2



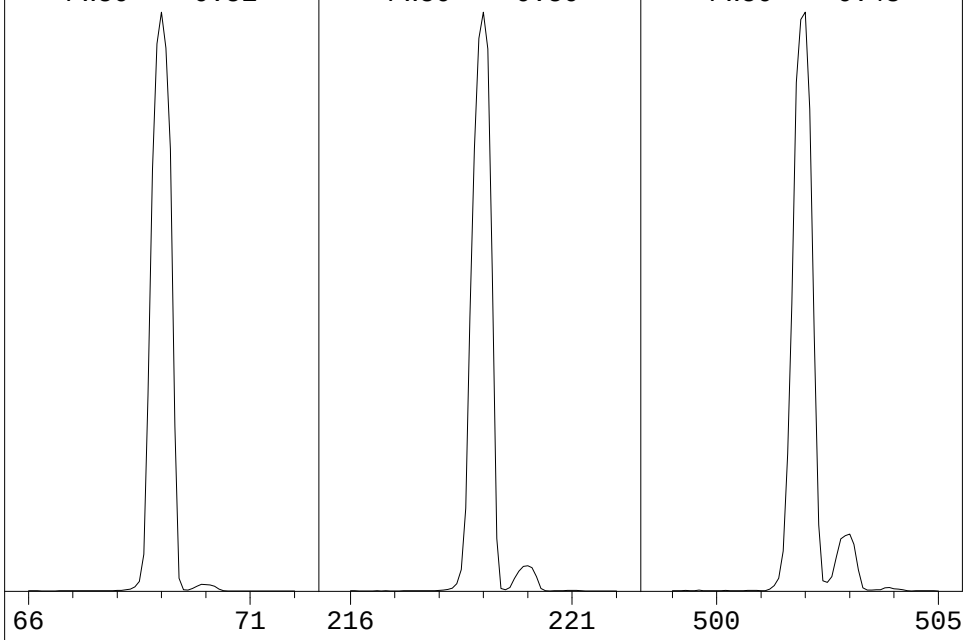
```
   Sequence Name: C:\MSDCHEM\1\SEQUENCE\3-160805-VOST.S
         Comment:
        Operator: SG          Instrument MSD-3
       Data Path: C:\MSDCHEM\1\DATA\2016\1608\160805\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run      Sequence Barcode Options
    (X) Full Method             (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only       ( ) On Mismatch, Don't Inject
                                ( ) Barcode Disabled
   ----------------------------------------------------------------------
   Line                  Sample Name/Misc Info
 1) Sample         1  50ng-BFB
     Datafile         16080501
     Method           BFBRX140N
 2)  Sample        2  16080502 VOSTRXN  blank
 3)  Sample        3  16080503 VOSTRXN  250 ng VOST STD
 4)  Sample        5  16080504 VOSTRXN  250ng control STD
 5)  Sample        6  16080505 VOSTRXN  VOST-Blank
 6)  Sample        7  16080506 VOSTRXN  L1806554-9
 7)  Sample        8  16080507 VOSTRXN  L1806542-9
 8)  Sample        9  16080508 VOSTRXN  L1806554-3
 9)  Sample       10  16080509 VOSTRXN  L1806542-3
10)  Sample       12  16080510 VOSTRXN  L1806554-5
11)  Sample       13  16080511 VOSTRXN  L1806554-7
12)  Sample       14  16080512 VOSTRXN  L1806542-5
13)  Sample       16  16080513 VOSTRXN  L1806542-7
14)  Sample       17  16080514 VOSTRXN  blank
```

5975 BFB Dynamic Target Tune

Fri Aug 05 09:32:17 2016 Instrument: ONLINE

C:\MSDCHEM\1\5975\bfb.u US10272620

Mass	69.00	Mass	219.00	Mass	502.00
Ab	861094	Ab	472325	Ab	24509
Pw50	0.51	Pw50	0.50	Pw50	0.48



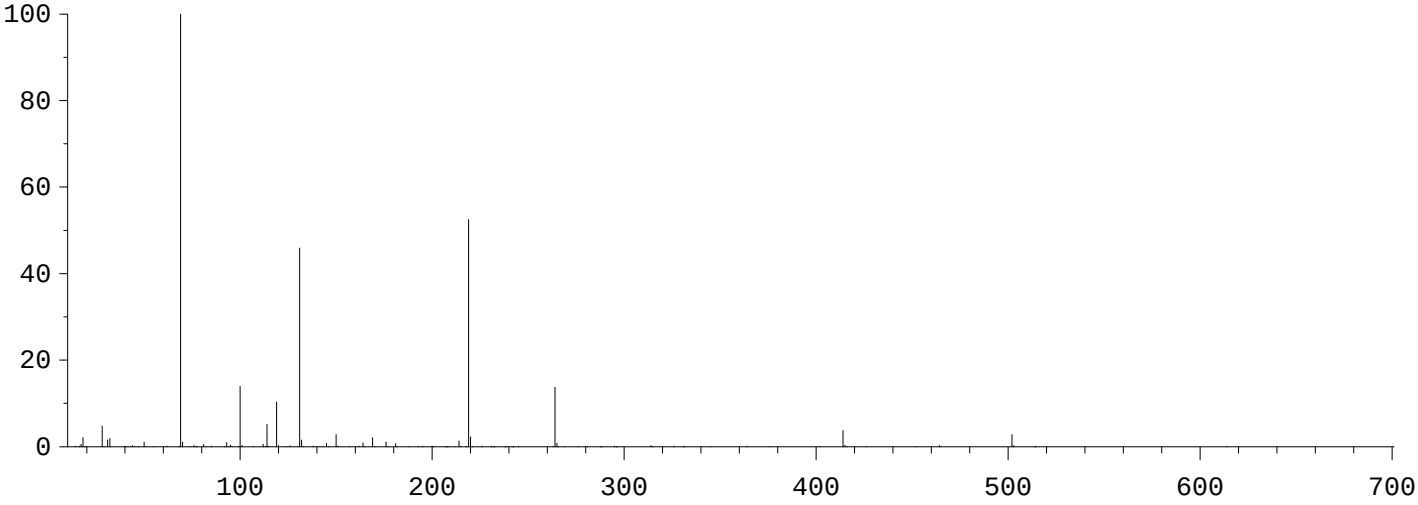
Ion Pol	Pos	MassGain	-481
		MassOffs	-39
Emission	34.6	AmuGain	2312
EIEnrgy	69.9	AmuOffs	126.44
Filament	1	Wid219	-0.030
		DC Pol	Pos
Repeller	19.90		
IonFcus	73.1	HEDEnab	On
EntLens	0.0	EMVolts	1565
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e+00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10

116 peaks Base: 69.00 Abundance: 810624



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	810624	100.00	70.00	8601	1.06
219.00	425600	52.50	220.00	18448	4.33
502.00	22288	2.75	503.00	2136	9.58

Air/Water Check: H20~2.12% N2~4.75% O2~1.88% CO2~0.28% N2/H2O~223.99%

Column(1) Flow: 0 Column(2): -1.79769e+308 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 69; EM Gain 154487

Repeller Maximum 20 volts using ion 219; Gain Factor 1.54

MassGain Values(Samples): -465(3) -459(2) -444(1) -420(0) -377(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	126.4	126.4	126.4	126.4	126.4	126.4	126.4
Entrance Lens Offset:	14.1	12.8	14.1	17.1	23.1	23.6	23.6
Target Abund(%):	1.0	100.0	45.0	52.0	3.5	2.5	
Actual Tune Abund(%):	1.0	100.0	45.9	52.5	3.7	2.7	

BFB

Data Path : C:\msdchem\1\data\2016\1608\160805\Snapshot\
Data File : 16080501.D
Acq On : 5 Aug 2016 9:58 am
Operator : SG Instrument MSD-3
Sample : 50ng-BFB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev.M
Title : Volatiles VOST
Last Update : Fri Aug 12 15:28:02 2016

AutoFind: Scans 1290, 1291, 1292; Background Corrected with Scan 1276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	2840	PASS
75	95	30	60	48.1	6258	PASS
95	95	100	100	100.0	13001	PASS
96	95	5	9	6.5	846	PASS
173	174	0.00	2	0.7	75	PASS
174	95	50	100	81.3	10565	PASS
175	174	5	9	7.6	799	PASS
176	174	95	101	101.0	10670	PASS
177	176	5	9	6.2	662	PASS

VOST160513Q7PTrev.M Wed Aug 17 15:13:42 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160805\
Data File : 16080503.D
Acq On : 5 Aug 2016 11:58 am
Operator : SG Instrument MSD-3
Sample : 250 ng VOST STD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 15:51:58 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.752	130	87596	250.00	ng	0.03
20) 1,4-Difluorobenzene	8.686	114	341455	250.00	ng	0.02
32) d5-Chlorobenzene	12.945	117	253235	250.00	ng	0.02
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.843	65	133547	288.74	ng	0.03
Spiked Amount 250.000			Recovery	=	115.50%	
48) d10-Ethylbenzene(SPK)	13.013	98	397643	228.45	ng	0.02
Spiked Amount 200.000			Recovery	=	114.22%	
49) d8-Toluene(SURR)	11.101	98	381595	254.36	ng	0.02
Spiked Amount 250.000			Recovery	=	101.74%	
50) 4-Bromofluorobenzene(S...	14.232	95	137423	275.51	ng	0.02
Spiked Amount 250.000			Recovery	=	110.20%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.724	85	92195	158.65	ng	99
3) Chloromethane	1.913	50	172522	250.33	ng	100
4) Vinyl Chloride	2.018	62	173117	209.00	ng	97
5) Bromomethane	2.372	94	93998	255.33	ng	99
6) Chloroethane	2.477	64	101830	236.12	ng	100
7) Trichlorofluoromethane	2.755	101	276137	223.50	ng	99
8) 1,1-Dichloroethene	3.372	61	338196	227.11	ng	98
9) Acetone	3.410	43	134641	242.94	ng	94
10) Iodomethane	3.553	142	150230	254.35	ng	90
11) Carbon disulfide	3.651	76	523787	224.69	ng	96
12) Methylene Chloride	4.065	49	245701	238.42	ng	99
13) trans,1,2-Dichloroethene	4.501	61	266257	269.37	ng	99
14) 1,1-Dichloroethane	5.284	63	329869	269.07	ng	98
15) Vinyl Acetate	5.329	43	156174	250.02	ng	98
16) cis,1,2-Dichloroethene	6.330	61	272647	237.99	ng	99
17) 2-Butanone	6.323	43	109684	276.80	ng	97
18) Chloroform	6.977	83	293119	254.86	ng	96
19) 1,1,1-Trichloroethane	7.218	97	178441	271.33	ng	99
22) Carbon Tetrachloride	7.489	117	180938	277.37	ng	97
23) Benzene	7.858	78	582748	235.74	ng	100
24) 1,2-Dichloroethane	7.978	62	198175	280.05	ng	97
25) Trichloroethene	9.062	95	156089	281.65	ng	94
26) 1,2-Dichloropropane	9.513	63	147748	260.76	ng	100
27) Dibromomethane	9.656	93	90384	284.79	ng	94
28) Bromodichloromethane	10.010	83	185849	301.23	ng	98
29) cis,1,3-Dichloropropene	10.725	75	193347	305.90	ng	99
30) trans,1,3-Dichloropropene	11.568	75	151549	352.52	ng	97
31) 4-Methyl-2-Pentanone	10.973	43	223352	267.68	ng	93
33) Toluene	11.192	91	571407	227.49	ng	98
34) 1,1,2-Trichloroethane	11.816	83	111844	257.65	ng	96
35) Tetrachloroethene	11.884	166	153860	233.89	ng	98
36) 2-Hexanone	12.110	43	173872	269.83	ng	92
37) Chlorodibromomethane	12.275	129	153085	260.01	ng	99
38) Ethylene Dibromide	12.396	107	127595	237.42	ng	99
39) Chlorobenzene	12.975	112	382182	247.62	ng	100
40) 1,1,1,2-Tetrachloroethane	13.096	131	143754	262.43	ng	99
41) Ethylbenzene	13.103	91	700261	245.41	ng	99
42) M&P-Xylene	13.254	91	1188646	489.84	ng	98
43) O-Xylene	13.660	91	613520	243.90	ng	99
44) Styrene	13.690	104	476019	221.69	ng	94
45) Bromoform	13.871	173	121016	260.80	ng	99
46) 1,1,2,2-Tetrachloroethane	14.383	83	172448m	235.16	ng	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160805\
Data File : 16080503.D
Acq On : 5 Aug 2016 11:58 am
Operator : SG Instrument MSD-3
Sample : 250 ng VOST STD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 15:51:58 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,2,3-Trichloropropane	14.428	75	144198m	238.04 ng	
51) Isopropylbenzene	14.051	105	717811	245.54 ng	100
52) 1,3,5-Trimethylbenzene	14.661	105	672235	235.95 ng	100
53) 1,2,4-Trimethylbenzene	15.022	105	673928	239.56 ng	100
54) 1,3-Dichlorobenzene	15.293	146	376407	256.38 ng	99
55) 1,4-Dichlorobenzene	15.391	146	379706	244.68 ng	98
56) 1,2-Dichlorobenzene	15.722	146	356400	256.66 ng	98
57) 1,2,4-Trichlorobenzene	17.190	180	240174	203.92 ng	100
58) Hexachlorobutadiene	17.310	225	147127	237.65 ng	100
59) Naphthalene	17.423	128	500421	173.10 ng	100
60) 1,1-Dichloropropene	7.519	75	197159	244.97 ng	94
61) 1,3-Dichloropropane	12.012	76	209292	233.15 ng	95
62) Bromobenzene	14.360	77	267589	257.20 ng	97
63) n-Propylbenzene	14.473	91	933395	252.29 ng	99
64) tert-Butylbenzene	14.962	119	556712	251.37 ng	98
65) sec-Butylbenzene	15.180	105	835423	244.78 ng	100
66) p-Isopropyltoluene	15.331	119	760310	252.70 ng	99
67) n-Butylbenzene	15.707	91	719063	247.20 ng	98
68) 1,2-Dibromo-3-chloropr...	16.452	157	39996	218.97 ng	94

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

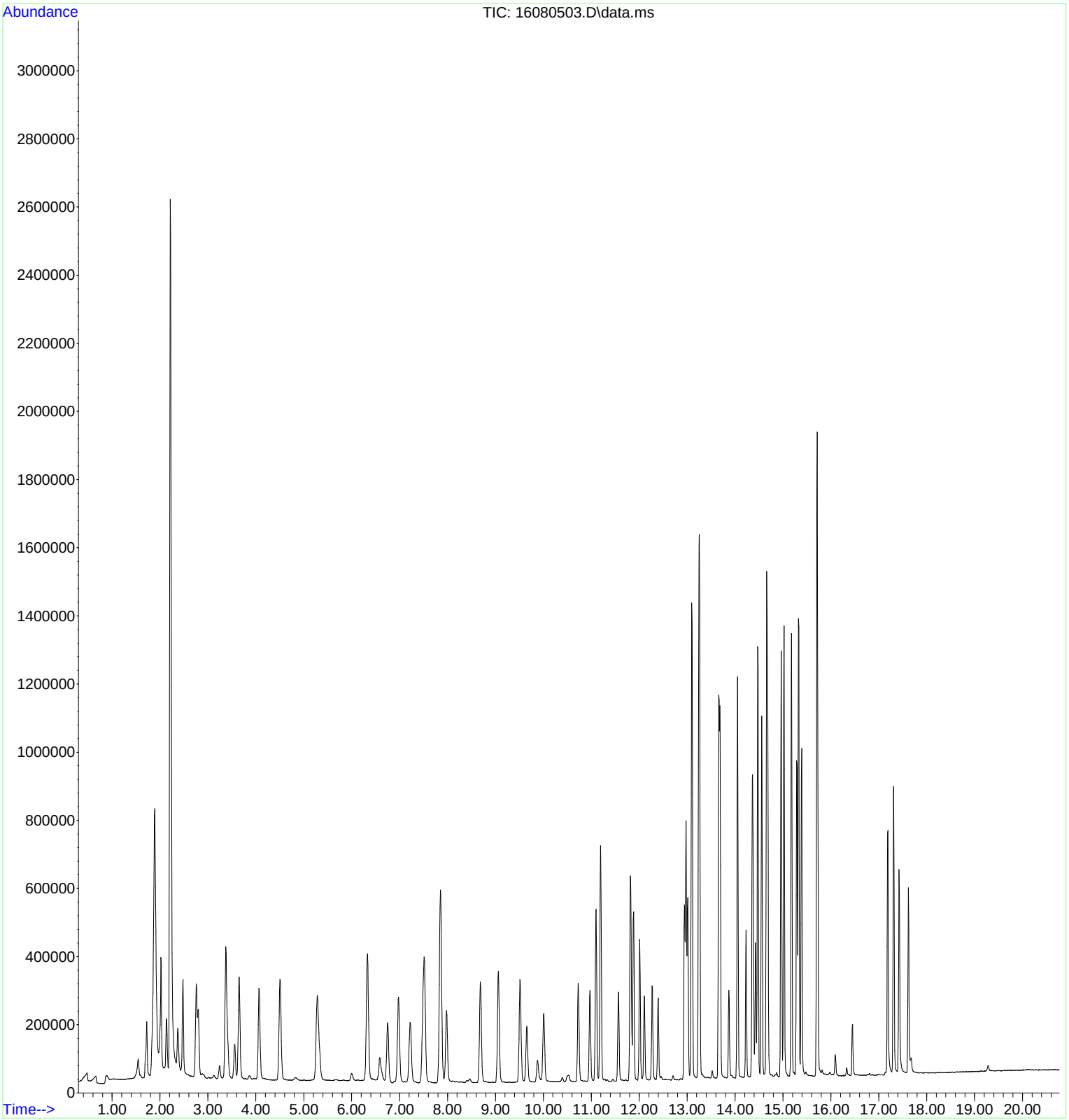
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

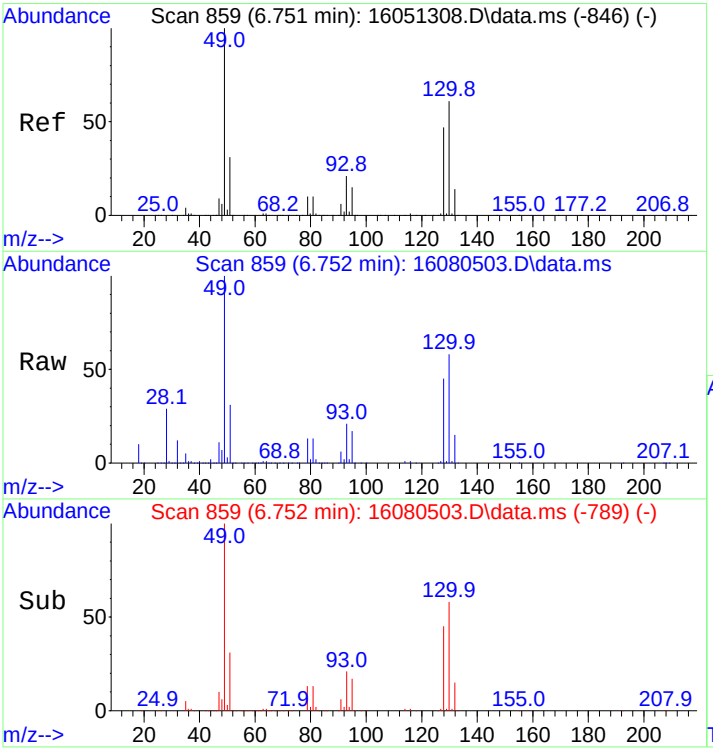
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080503.D
Acq On : 5 Aug 2016 11:58 am
Operator : SG Instrument MSD-3
Sample : 250 ng VOST STD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 14:05:43 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

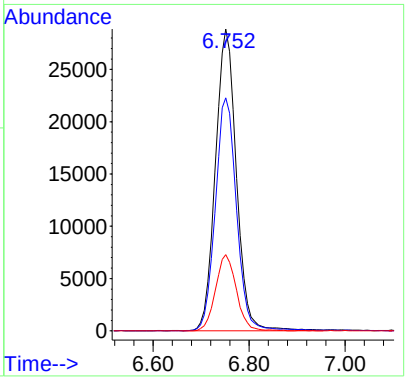


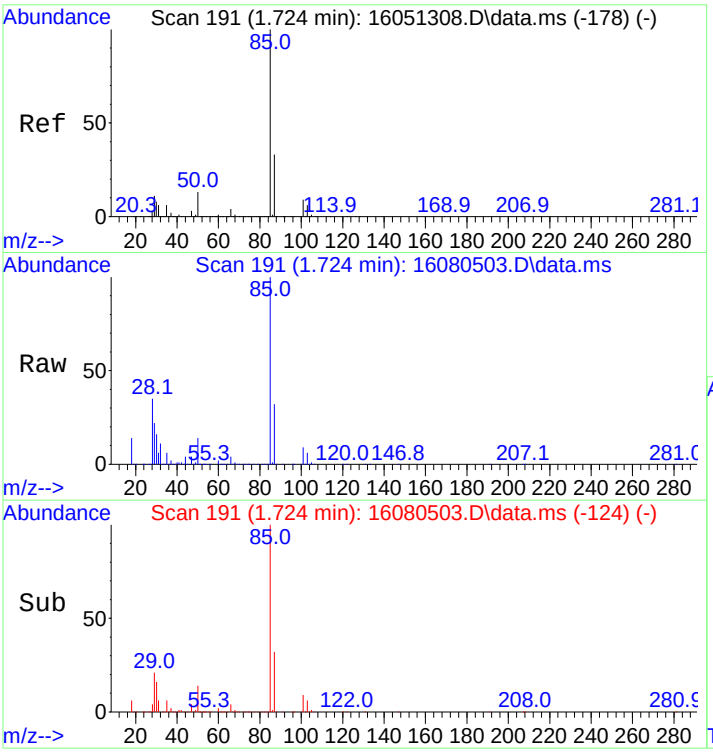


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.752 min Scan# 859
Delta R.T. 0.031 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:130 Resp: 87596

Ion	Ratio	Lower	Upper
130	100		
128	78.1	63.0	94.4
132	25.1	19.9	29.9

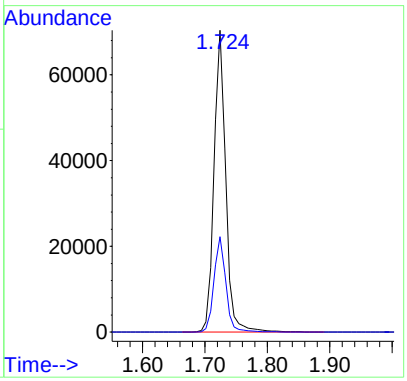


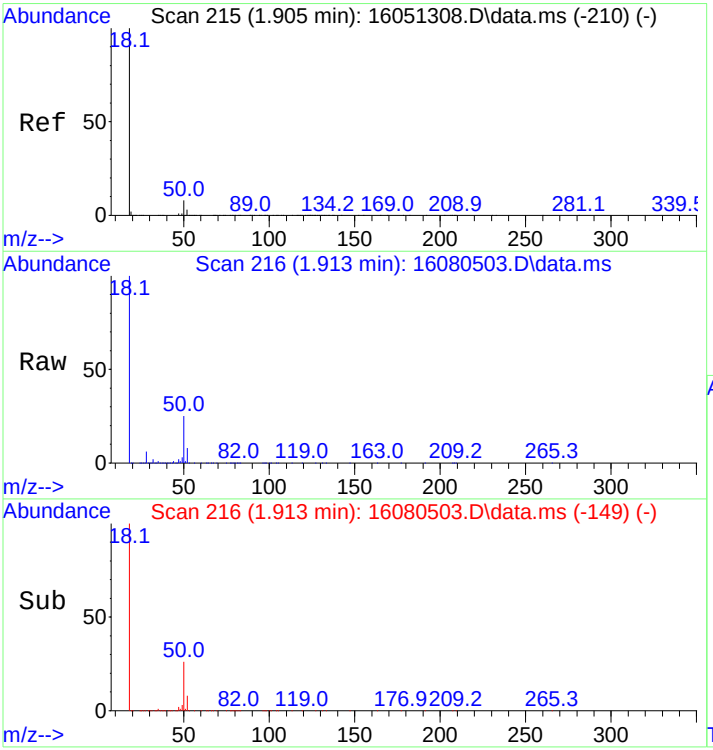


#2
Dichlorodifluoromethane
Concen: 158.65 ng
RT: 1.724 min Scan# 191
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 85 Resp: 92195

Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.0	39.0

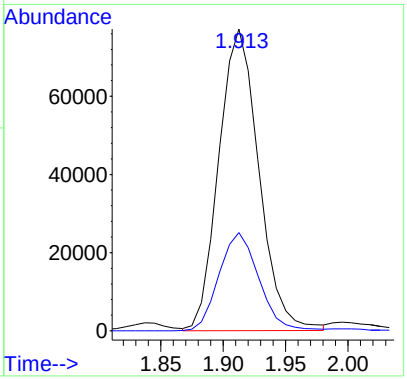


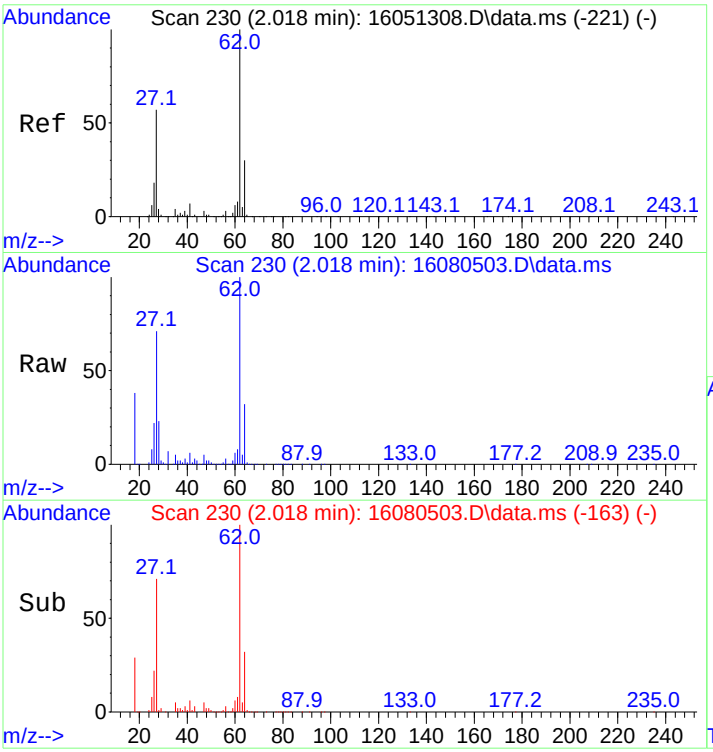


#3
Chloromethane
Concen: 250.33 ng
RT: 1.913 min Scan# 216
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 50 Resp: 172522

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.0	39.0

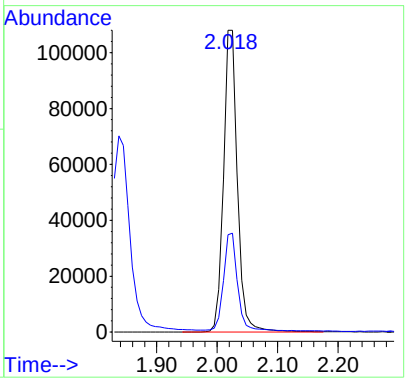


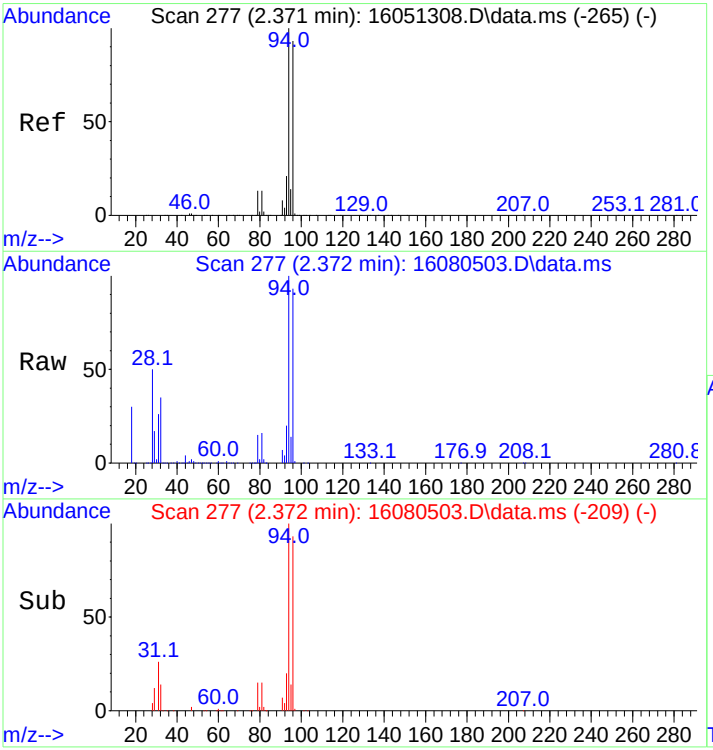


#4
Vinyl Chloride
Concen: 209.00 ng
RT: 2.018 min Scan# 230
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 62 Resp: 173117

Ion	Ratio	Lower	Upper
62	100		
64	33.6	25.7	38.5

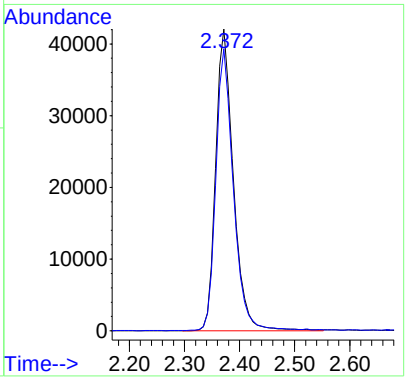


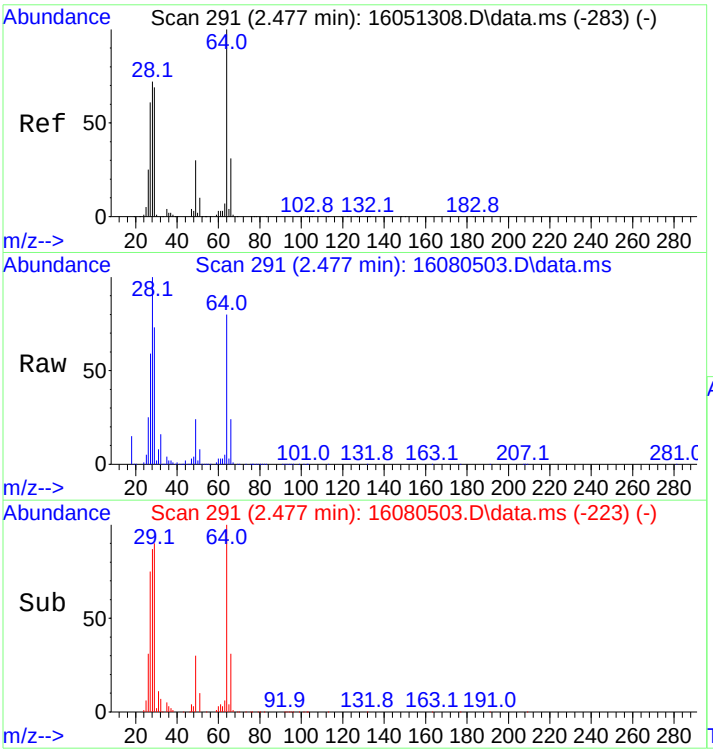


#5
Bromomethane
Concen: 255.33 ng
RT: 2.372 min Scan# 277
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 94 Resp: 93998

Ion	Ratio	Lower	Upper
94	100		
96	92.3	74.5	111.7

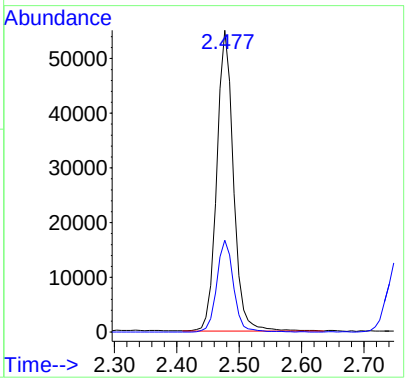


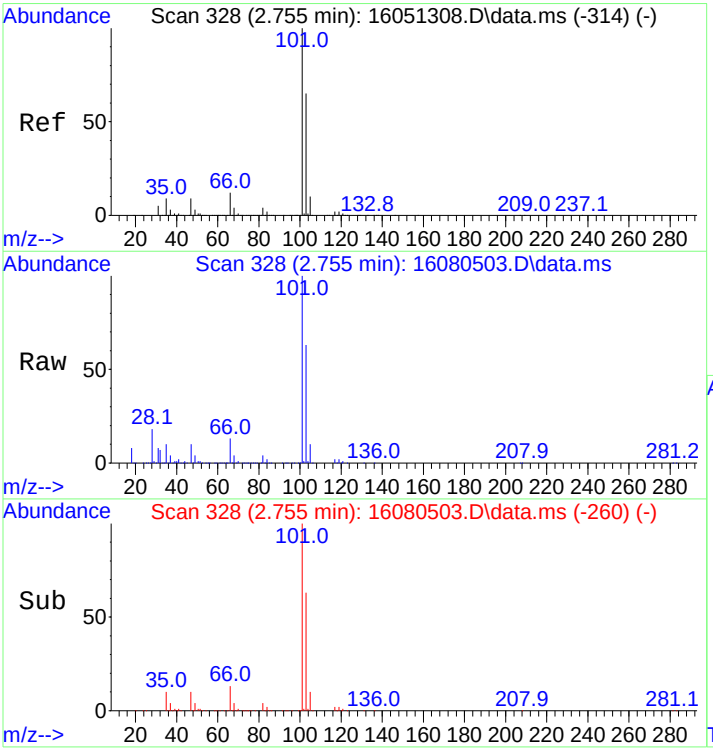


#6
Chloroethane
Concen: 236.12 ng
RT: 2.477 min Scan# 291
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 64 Resp: 101830

Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.0	37.4

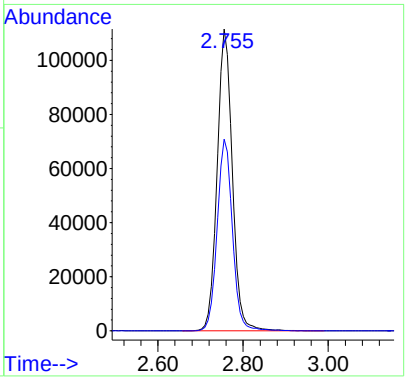


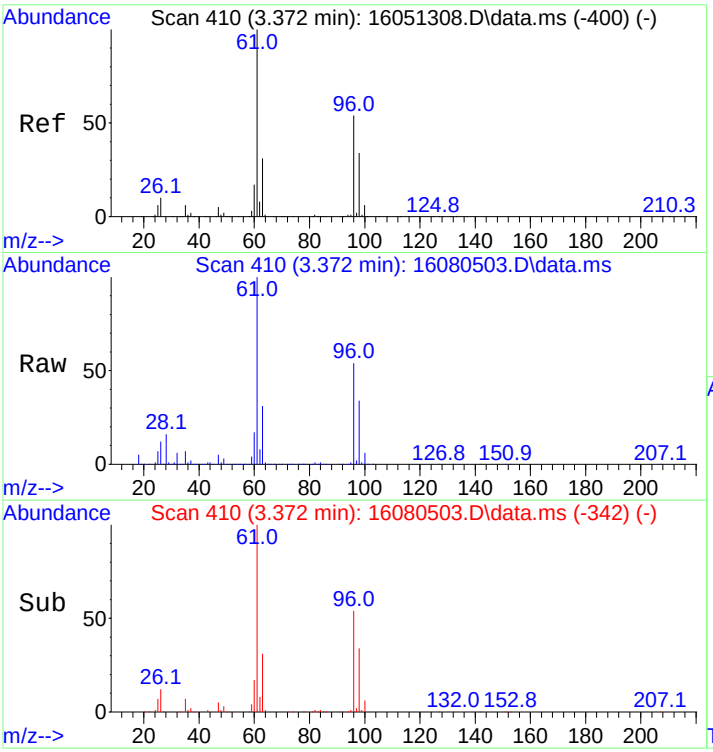


#7
Trichlorofluoromethane
Concen: 223.50 ng
RT: 2.755 min Scan# 328
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:101 Resp: 276137

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.8	77.6

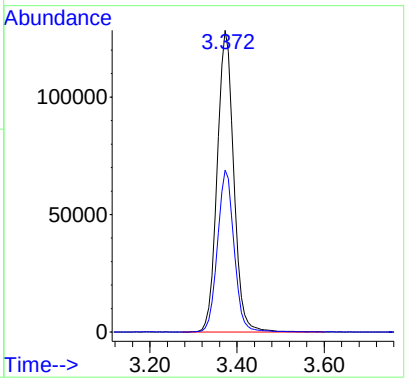


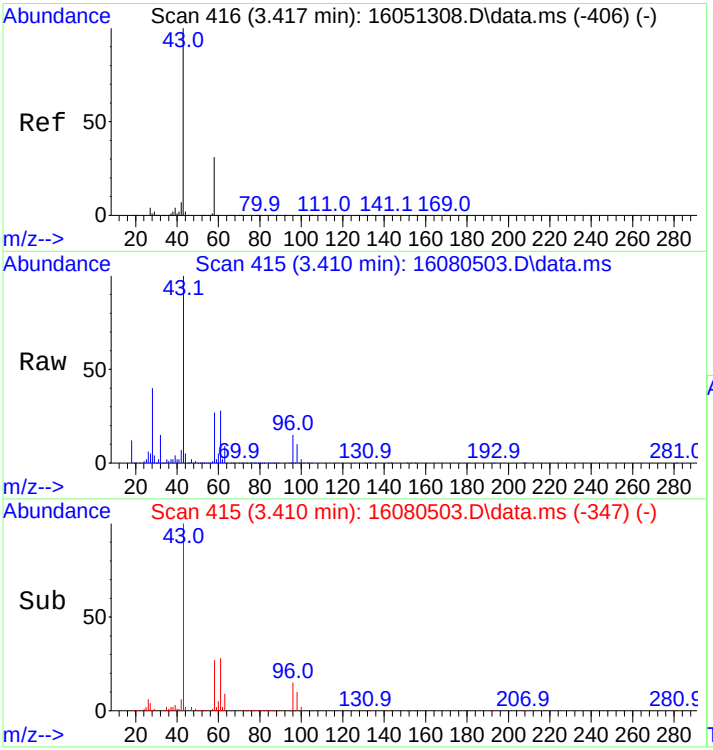


#8
1,1-Dichloroethene
Concen: 227.11 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 61 Resp: 338196

Ion	Ratio	Lower	Upper
61	100		
96	53.8	44.1	66.1

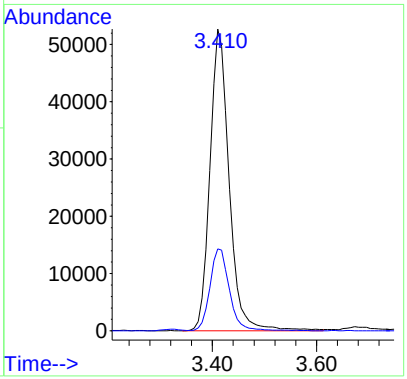


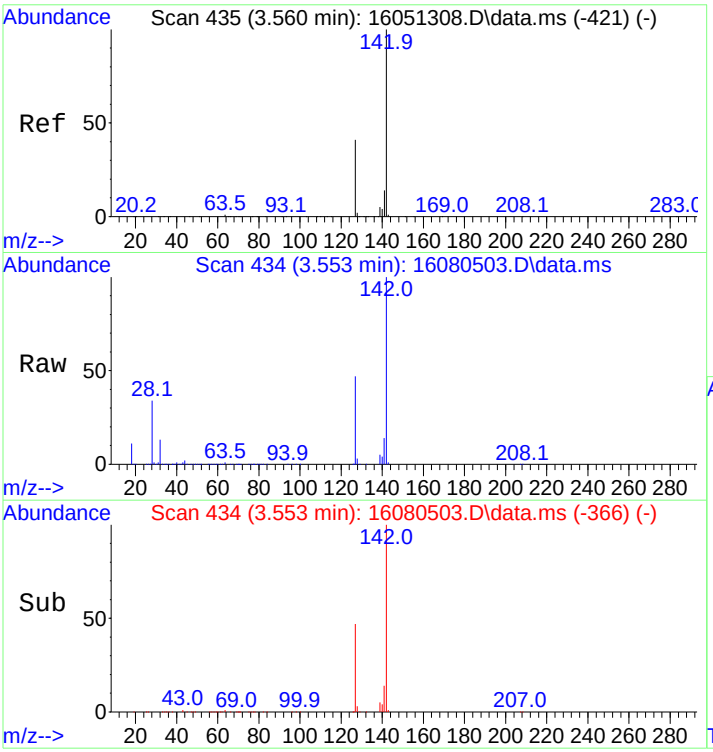


#9
Acetone
Concen: 242.94 ng
RT: 3.410 min Scan# 415
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 134641

Ion	Ratio	Lower	Upper
43	100		
58	27.7	24.7	37.1

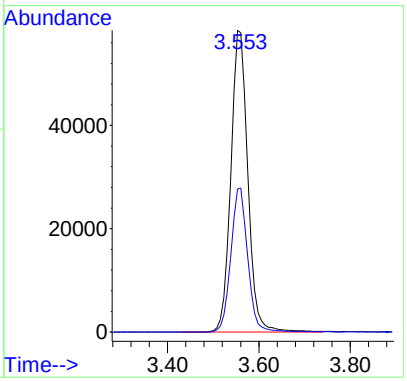


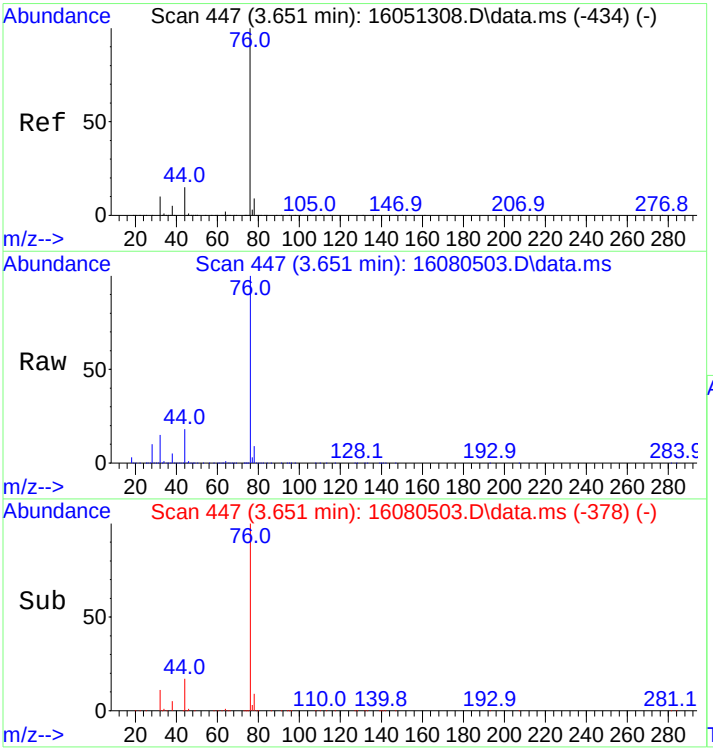


#10
Iodomethane
Concen: 254.35 ng
RT: 3.553 min Scan# 434
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:142 Resp: 150230

Ion	Ratio	Lower	Upper
142	100		
127	47.5	32.8	49.2

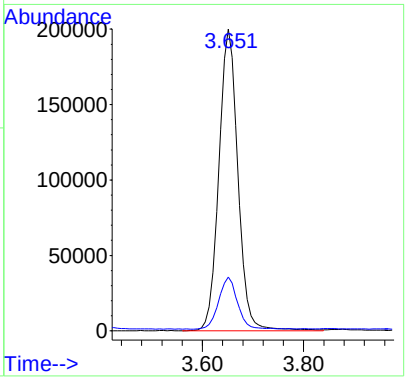


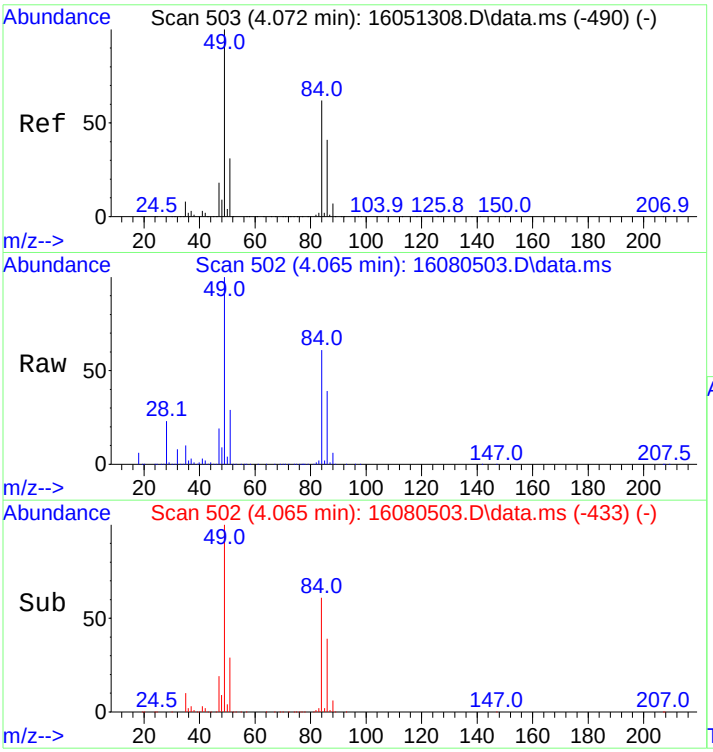


#11
Carbon disulfide
Concen: 224.69 ng
RT: 3.651 min Scan# 447
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 76 Resp: 523787

Ion	Ratio	Lower	Upper
76	100		
44	17.0	12.2	18.4

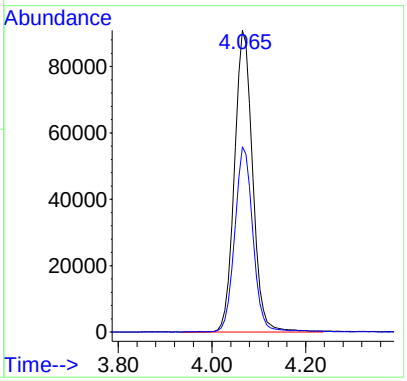


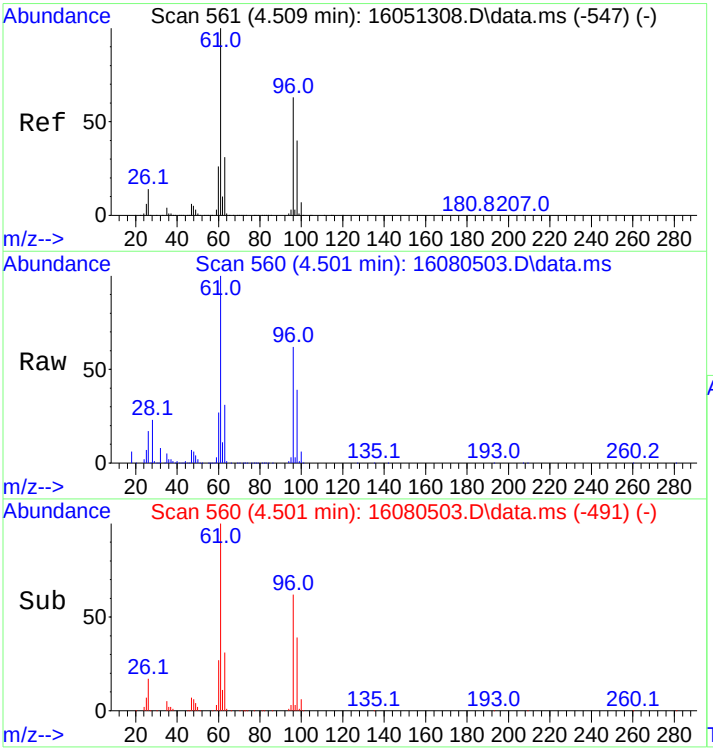


#12
Methylene Chloride
Concen: 238.42 ng
RT: 4.065 min Scan# 502
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 49 Resp: 245701

Ion	Ratio	Lower	Upper
49	100		
84	61.0	48.4	72.6

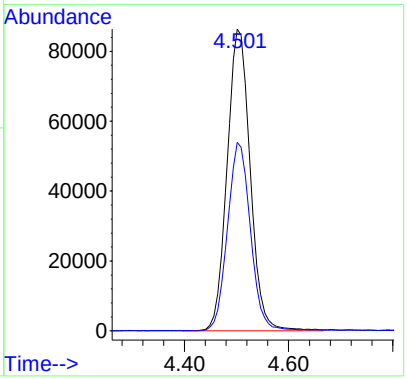


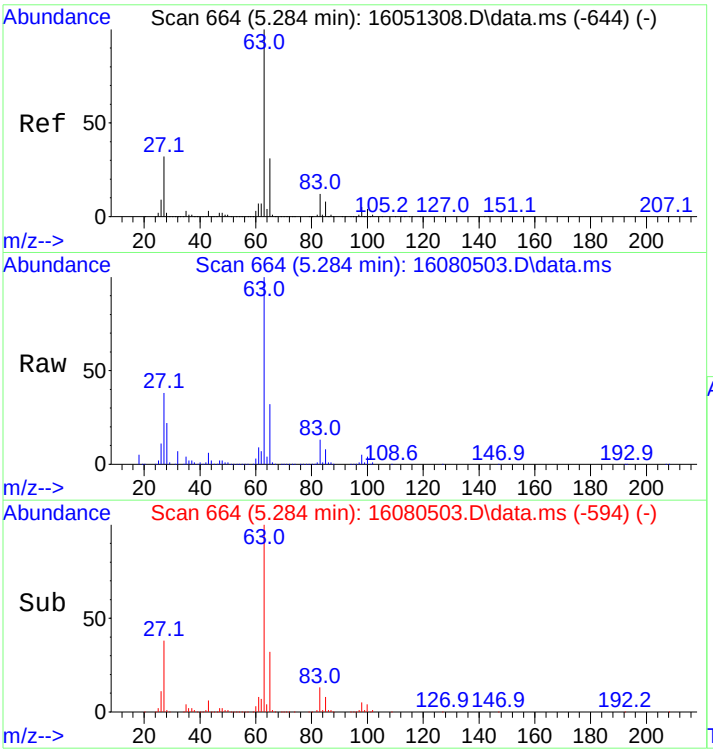


#13
trans,1,2-Dichloroethene
Concen: 269.37 ng
RT: 4.501 min Scan# 560
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 61 Resp: 266257

Ion	Ratio	Lower	Upper
61	100		
96	62.2	50.2	75.4

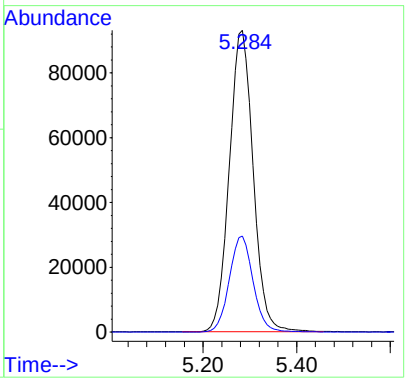


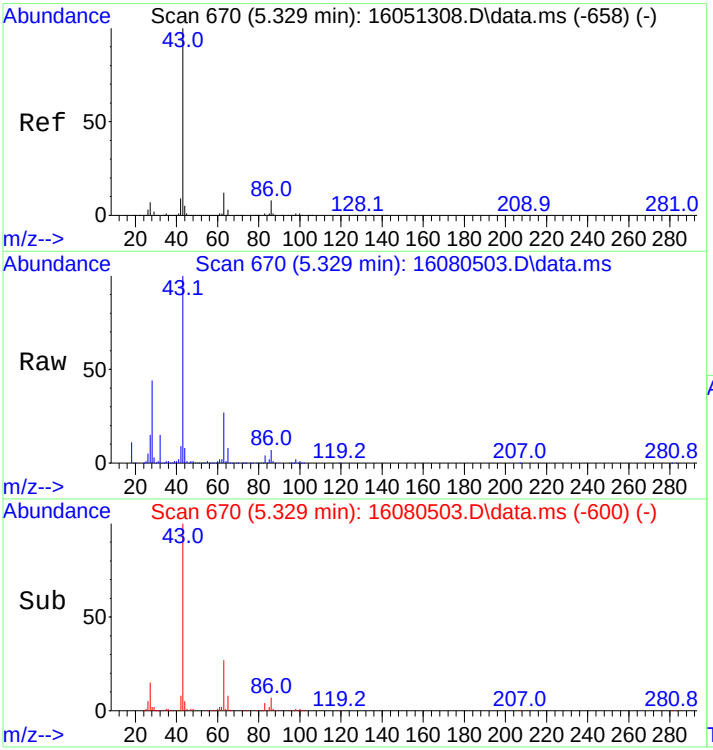


#14
1,1-Dichloroethane
Concen: 269.07 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 63 Resp: 329869

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.6	37.0

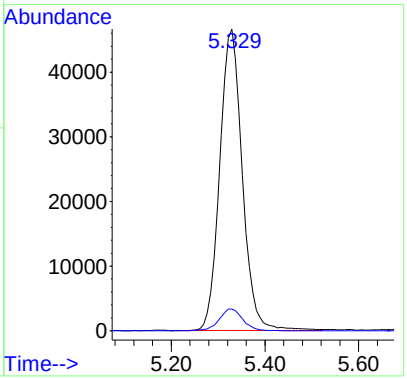


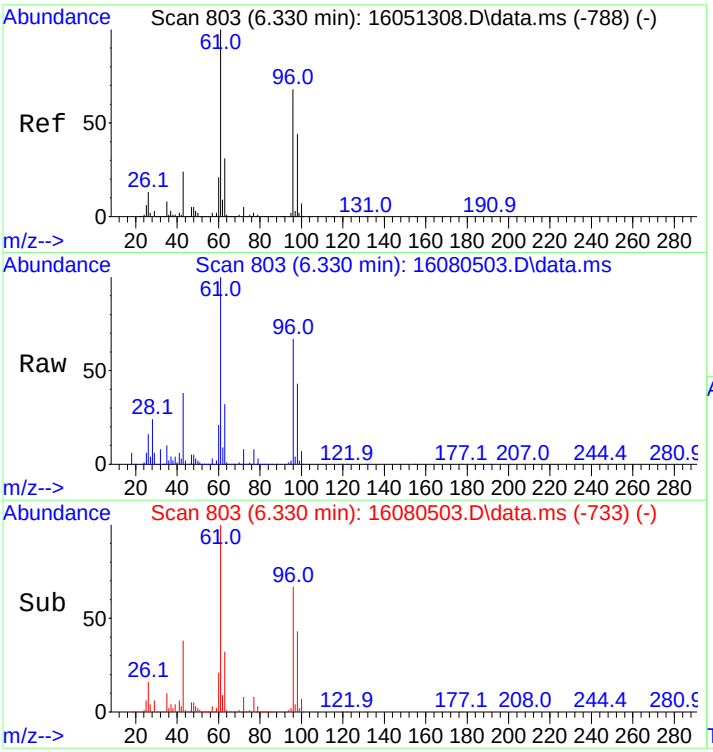


#15
Vinyl Acetate
Concen: 250.02 ng
RT: 5.329 min Scan# 670
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 156174

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.6	9.8

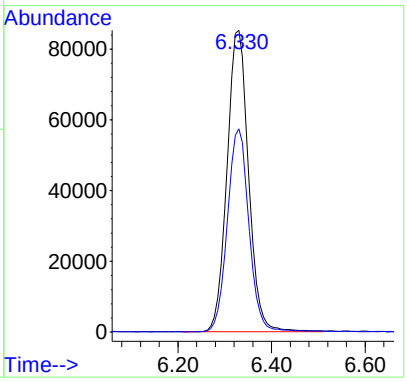


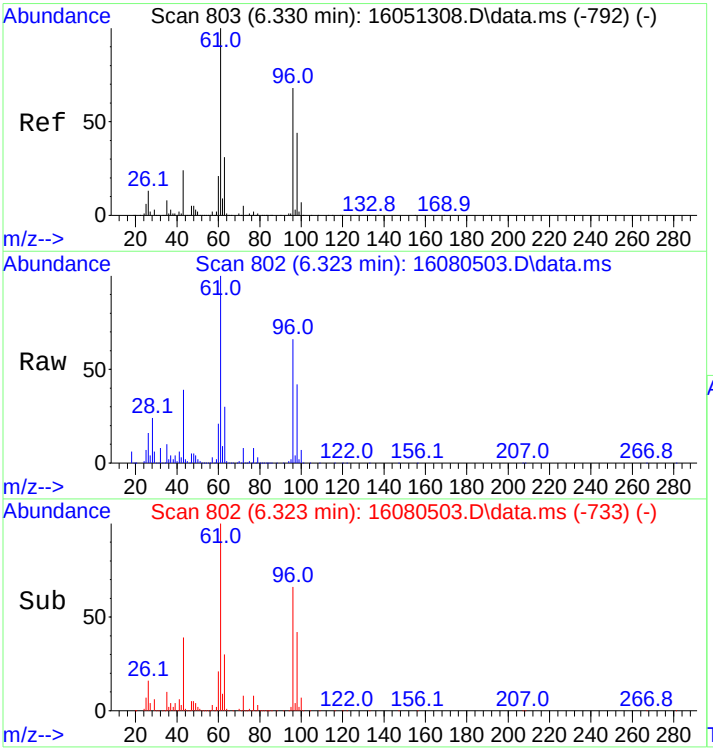


#16
cis,1,2-Dichloroethene
Concen: 237.99 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 61 Resp: 272647

Ion	Ratio	Lower	Upper
61	100		
96	67.2	54.6	81.8

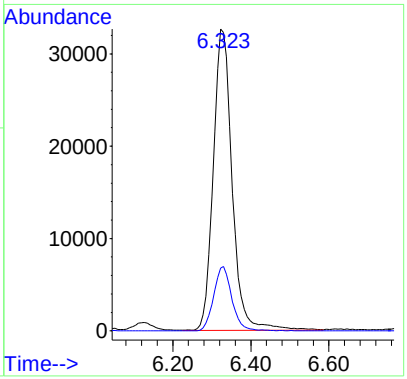


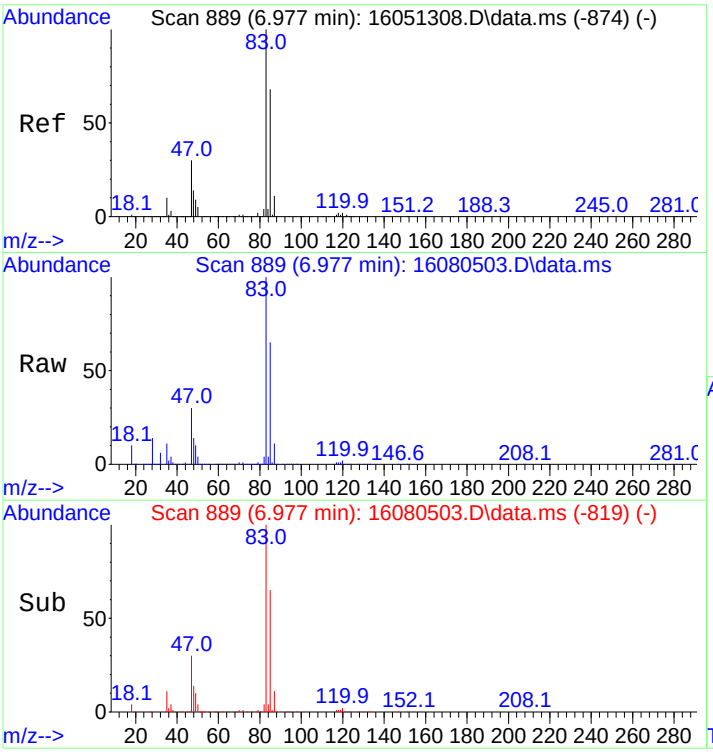


#17
2-Butanone
Concen: 276.80 ng
RT: 6.323 min Scan# 802
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 109684

Ion	Ratio	Lower	Upper
43	100		
72	20.5	17.4	26.2

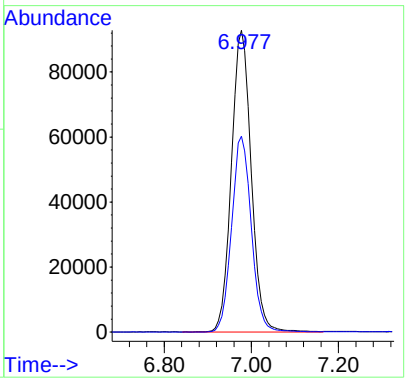


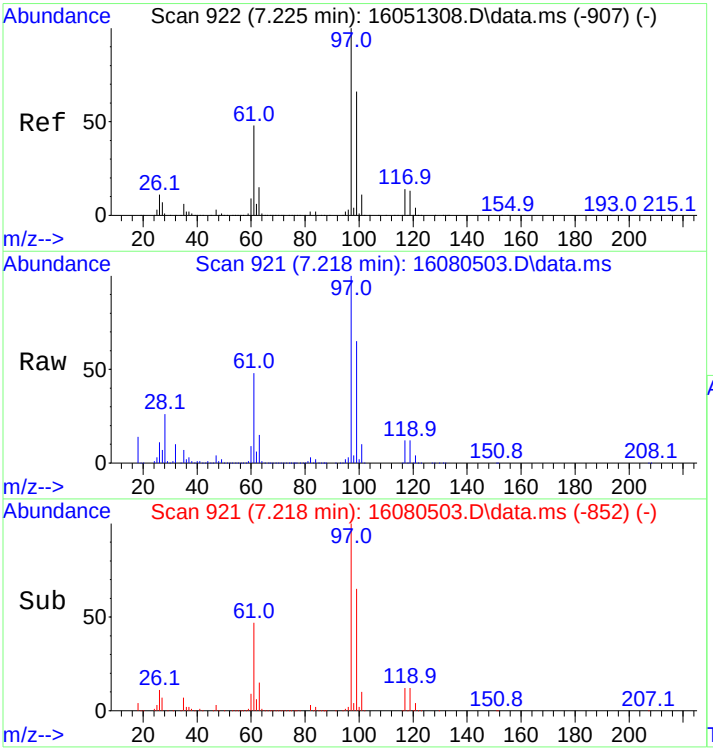


#18
Chloroform
Concen: 254.86 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 293119

Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.9	80.9

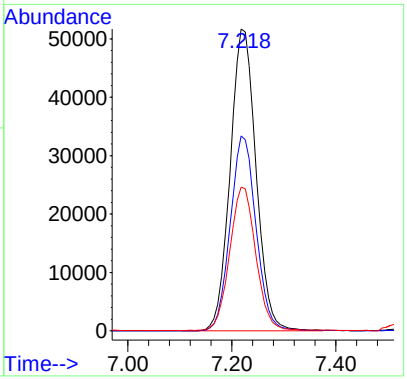


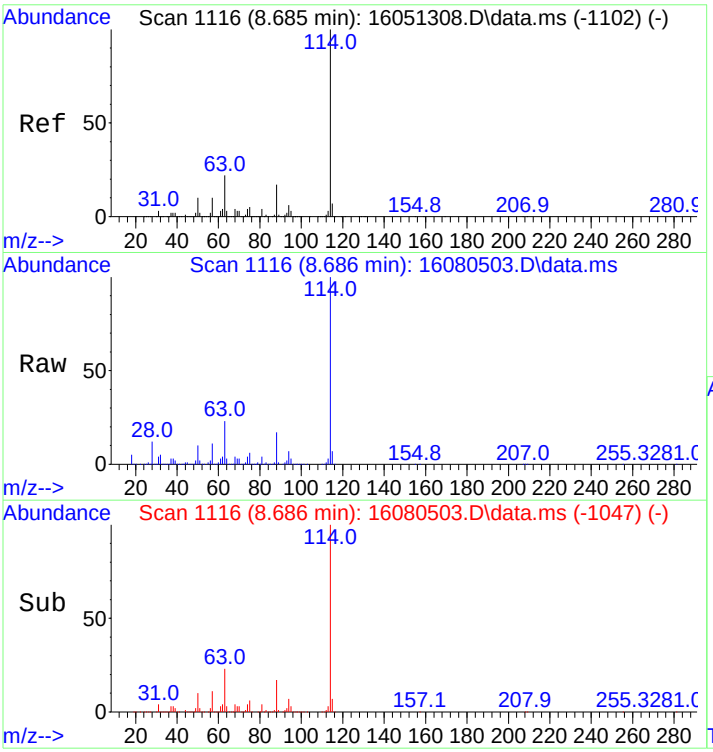


#19
1,1,1-Trichloroethane
Concen: 271.33 ng
RT: 7.218 min Scan# 921
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 97 Resp: 178441

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	47.9	37.6	56.4

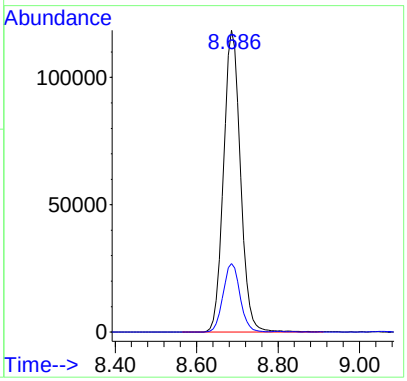


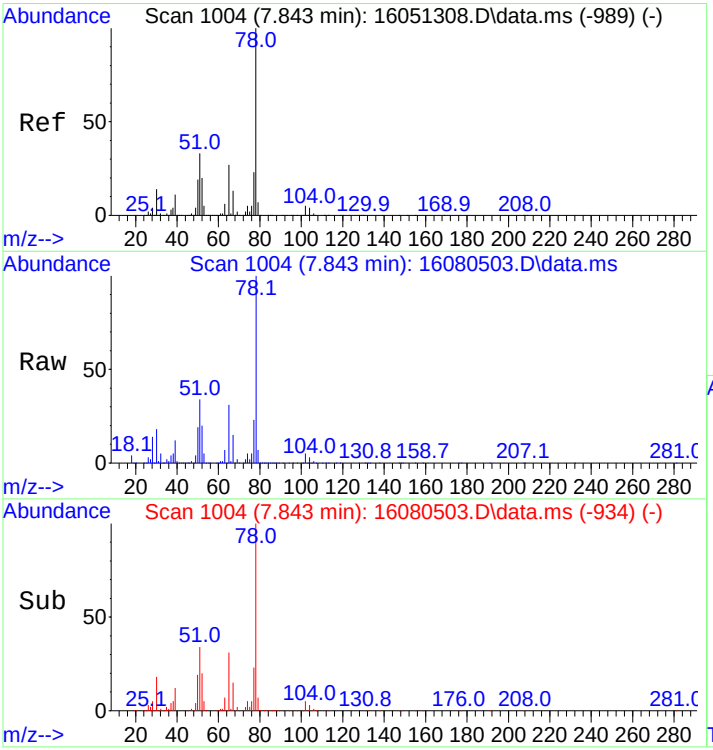


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.686 min Scan# 1116
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:114 Resp: 341455

Ion	Ratio	Lower	Upper
114	100		
63	22.7	17.8	26.8

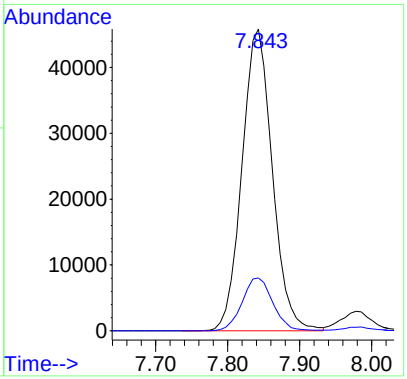


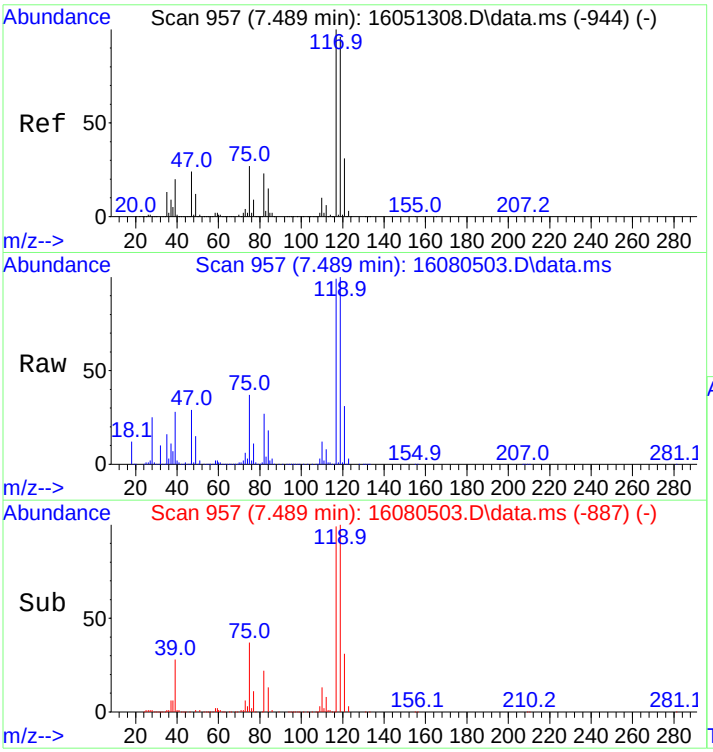


#21
d4-1,2-Dichloroethane(SURR)
Concen: 288.74 ng
RT: 7.843 min Scan# 1004
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 65 Resp: 133547

Ion	Ratio	Lower	Upper
65	100		
102	17.8	16.5	24.7

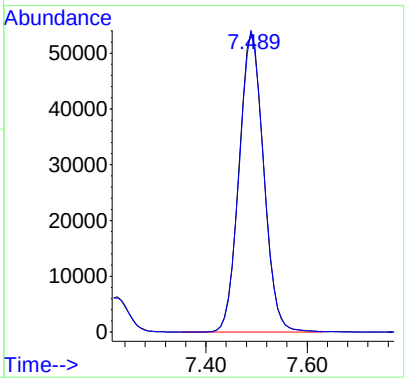


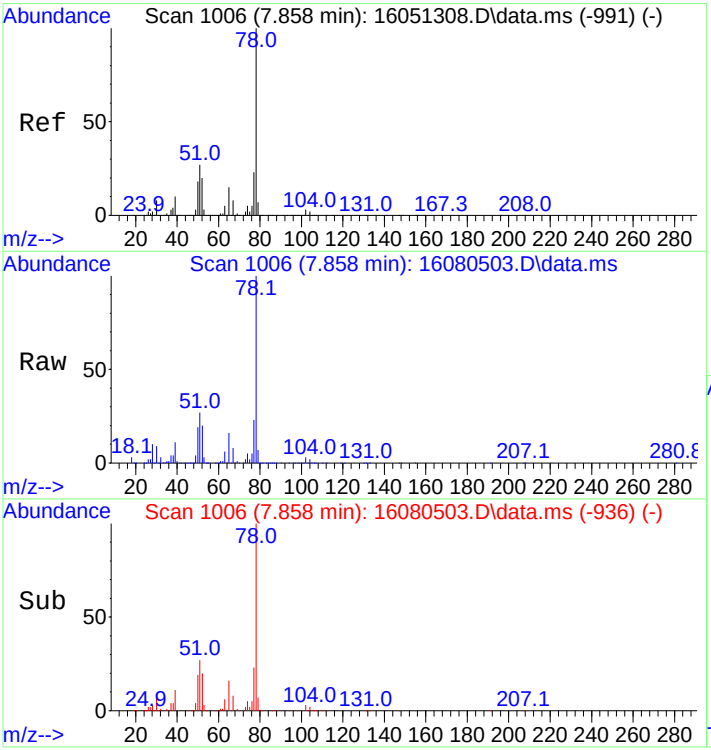


#22
Carbon Tetrachloride
Concen: 277.37 ng
RT: 7.489 min Scan# 957
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:117 Resp: 180938

Ion	Ratio	Lower	Upper
117	100		
119	99.3	77.0	115.4

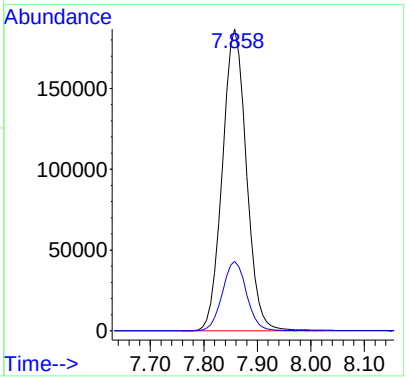


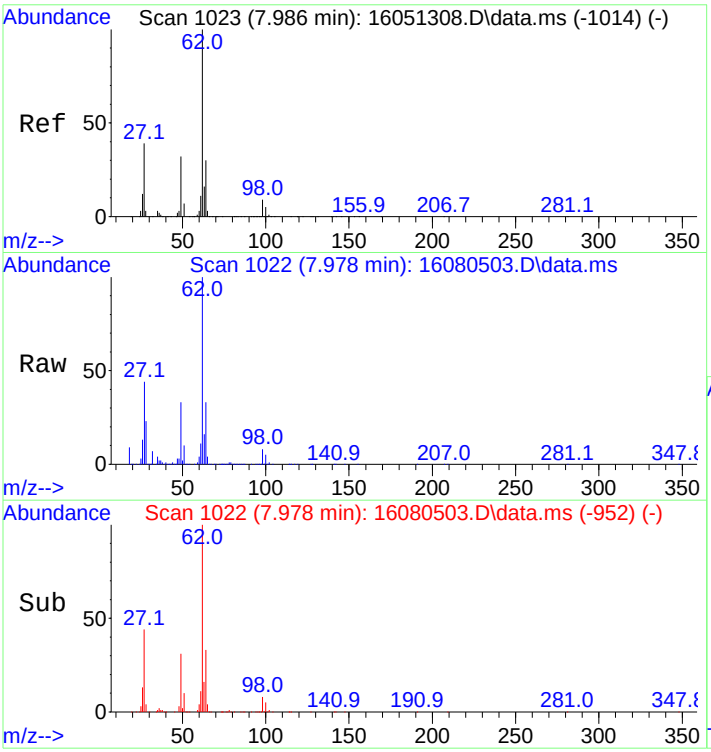


#23
Benzene
Concen: 235.74 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 78 Resp: 582748

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.3	27.5

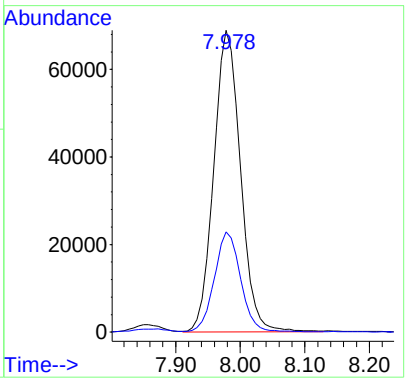


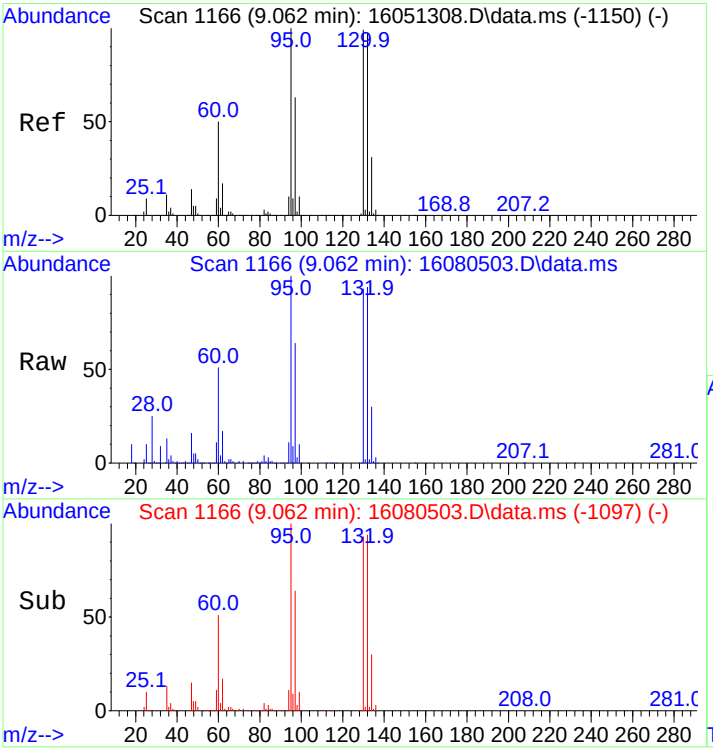


#24
1,2-Dichloroethane
Concen: 280.05 ng
RT: 7.978 min Scan# 1022
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 62 Resp: 198175

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.8	37.2

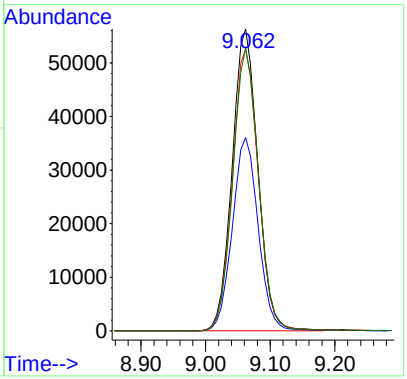


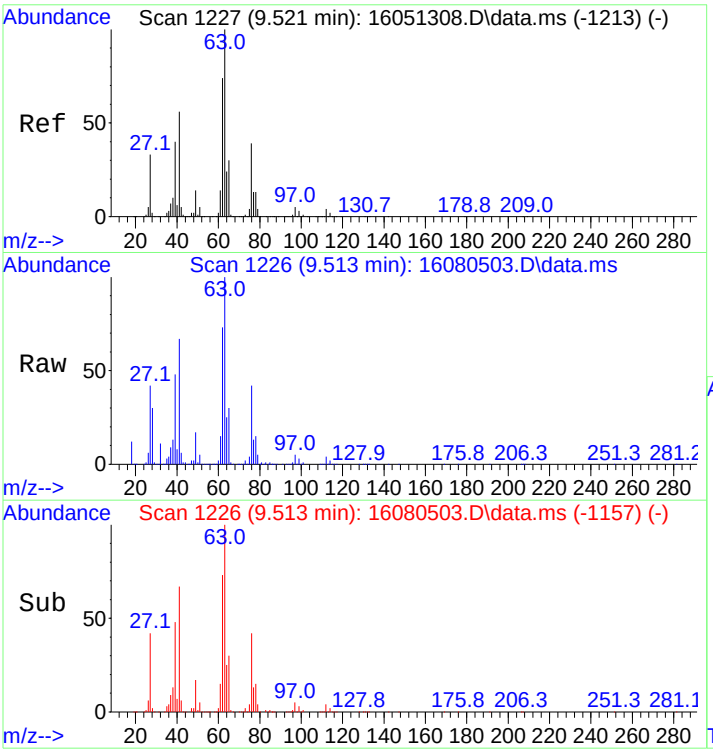


#25
Trichloroethene
Concen: 281.65 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 95 Resp: 156089

Ion	Ratio	Lower	Upper
95	100		
97	64.3	51.8	77.8
130	94.1	81.9	122.9
132	93.5	81.2	121.8

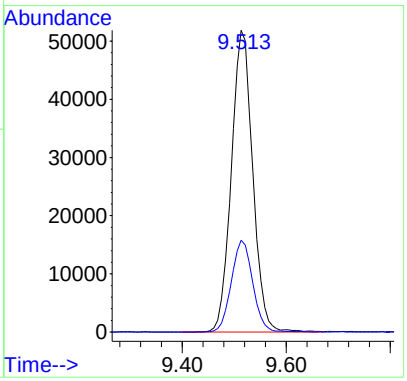


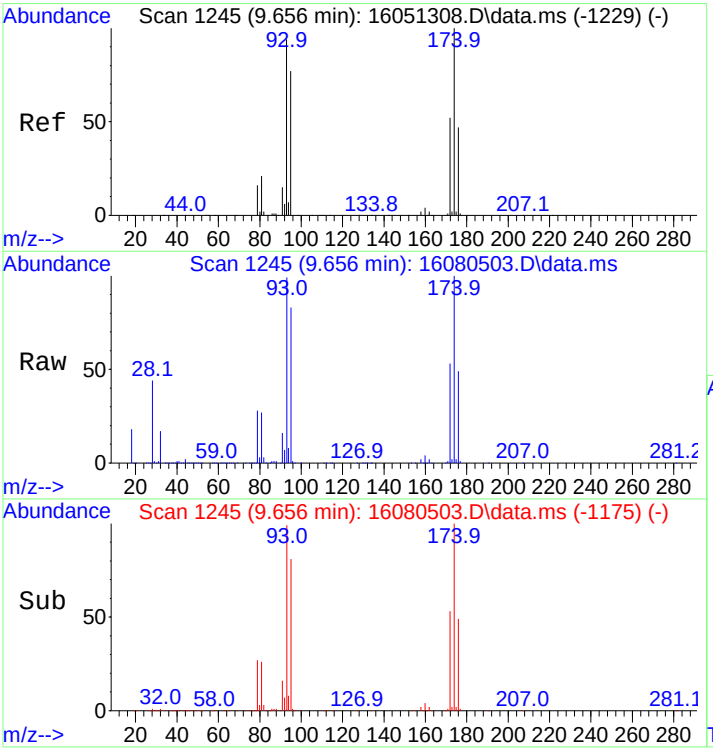


#26
1,2-Dichloropropane
Concen: 260.76 ng
RT: 9.513 min Scan# 1226
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 63 Resp: 147748

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.2	36.2

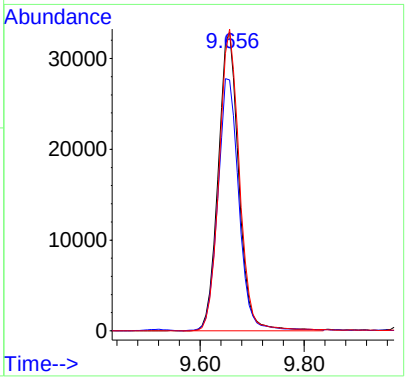


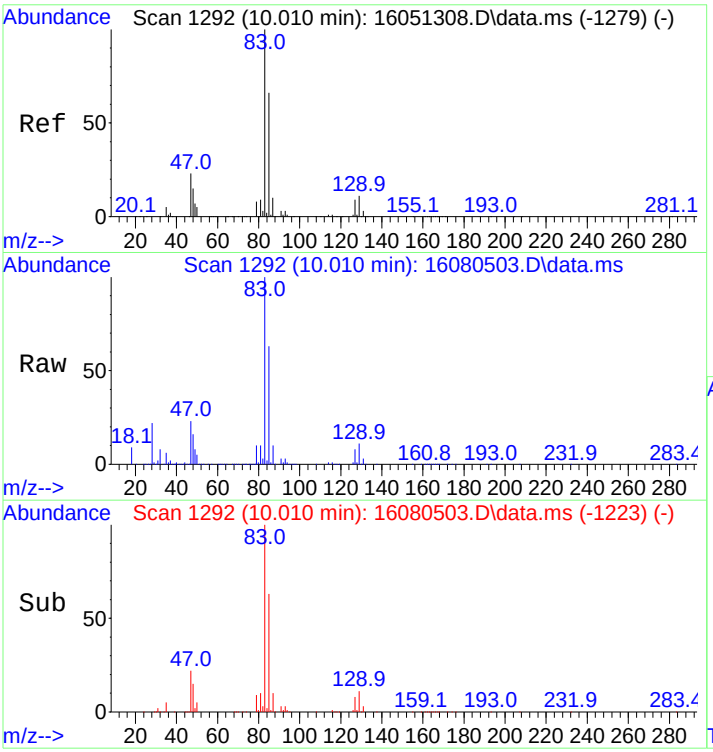


#27
Dibromomethane
Concen: 284.79 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 93 Resp: 90384

Ion	Ratio	Lower	Upper
93	100		
95	85.9	65.5	98.3
174	99.8	85.5	128.3

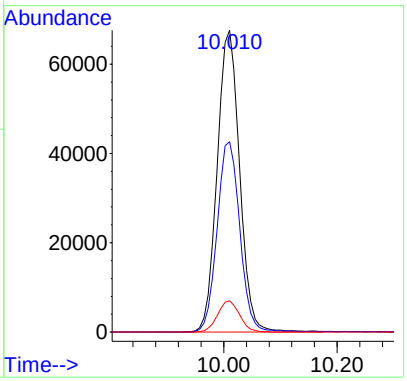


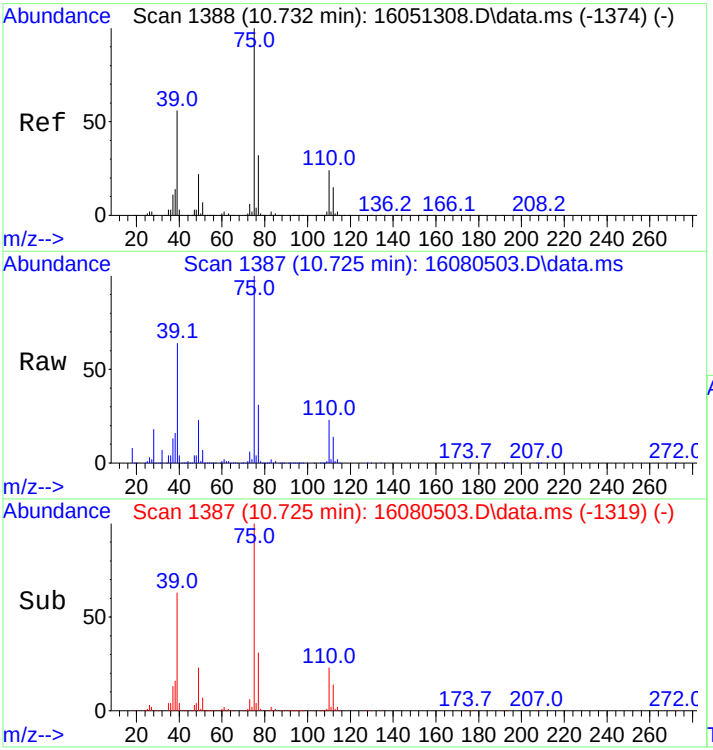


#28
Bromodichloromethane
Concen: 301.23 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 185849

Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.5	78.7
87	10.2	8.3	12.5

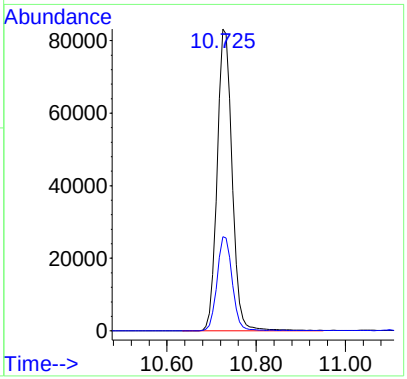


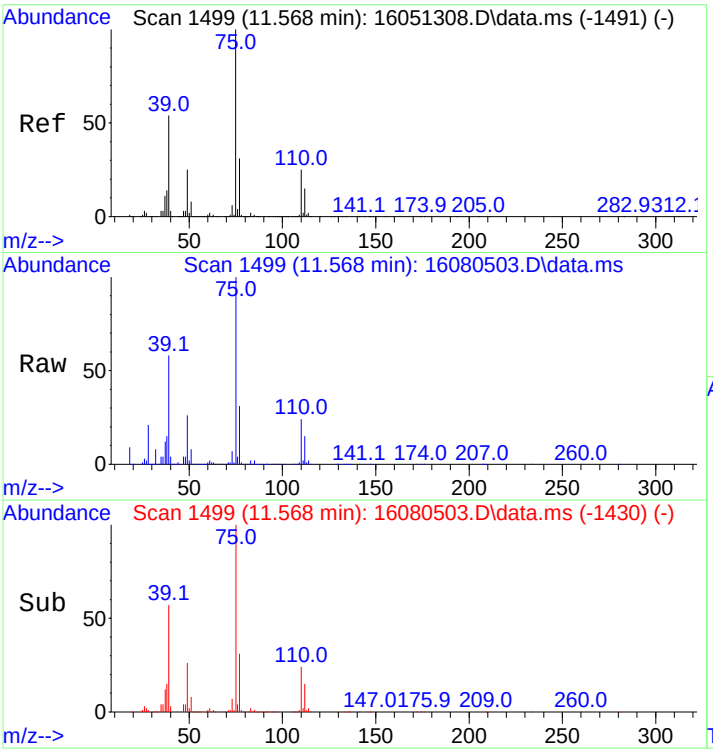


#29
cis,1,3-Dichloropropene
Concen: 305.90 ng
RT: 10.725 min Scan# 1387
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 193347

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4

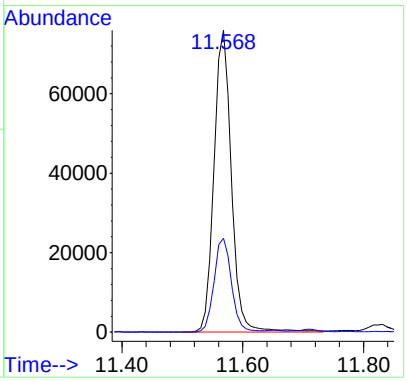


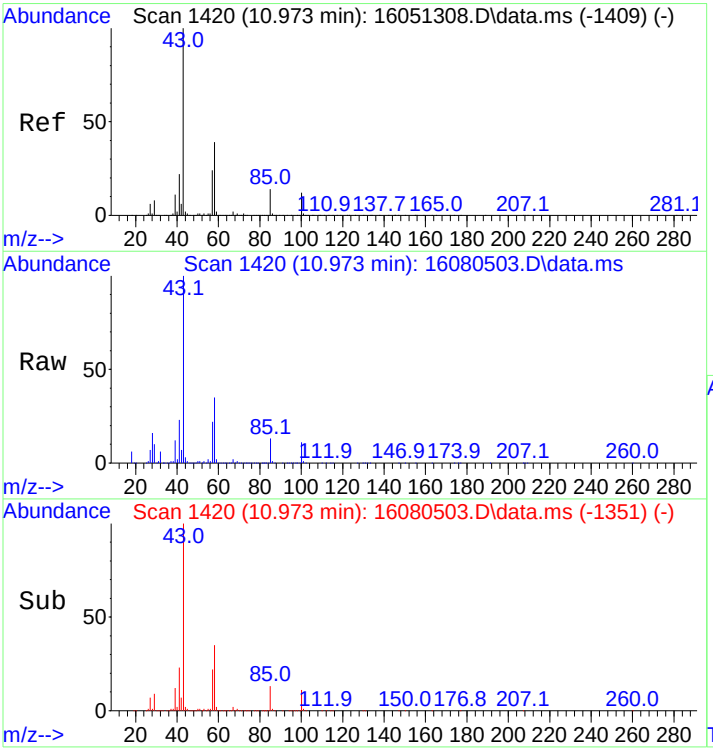


#30
trans,1,3-Dichloropropene
Concen: 352.52 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 151549

Ion	Ratio	Lower	Upper
75	100		
77	30.9	26.0	39.0

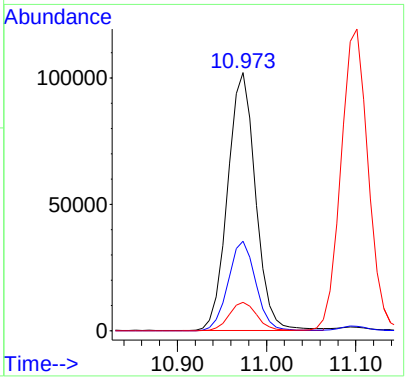


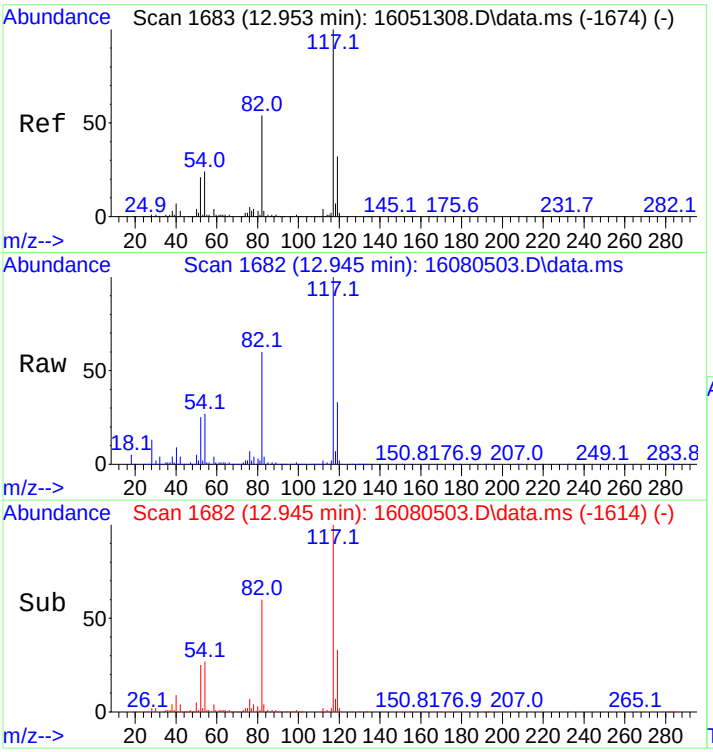


#31
4-Methyl-2-Pentanone
Concen: 267.68 ng
RT: 10.973 min Scan# 1420
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 223352

Ion	Ratio	Lower	Upper
43	100		
58	34.5	31.3	46.9
100	11.1	10.2	15.2

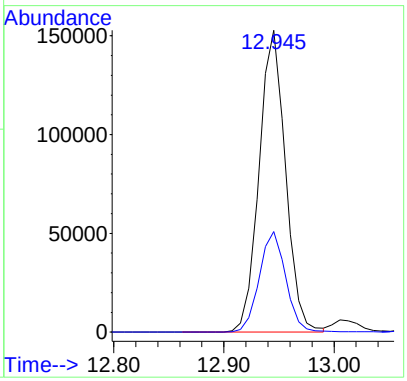


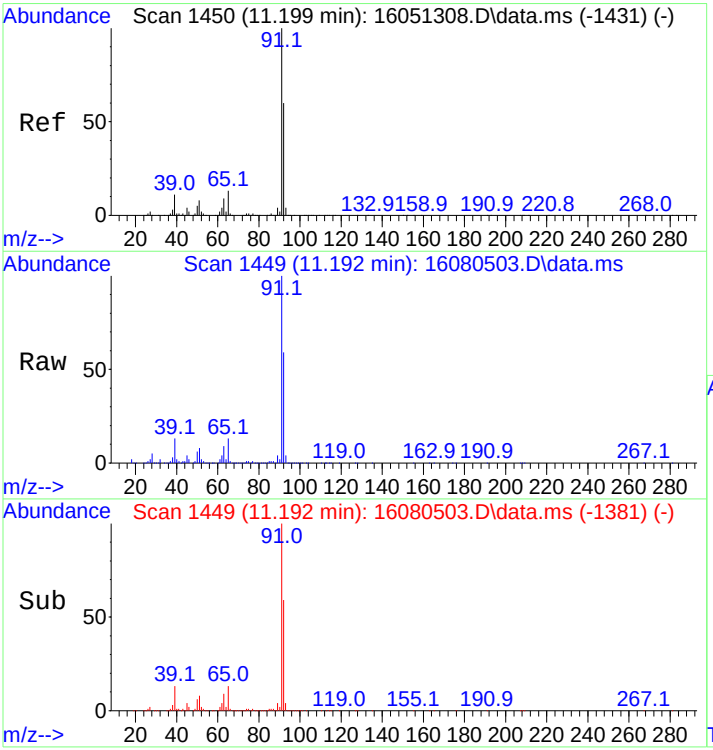


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.945 min Scan# 1682
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:117 Resp: 253235

Ion	Ratio	Lower	Upper
117	100		
119	33.5	25.8	38.8

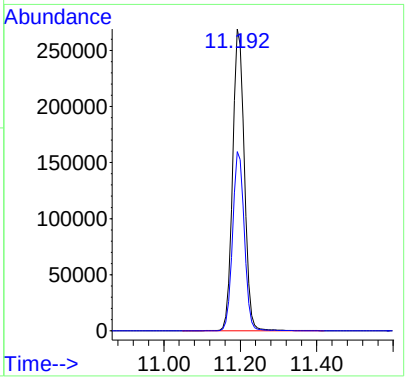


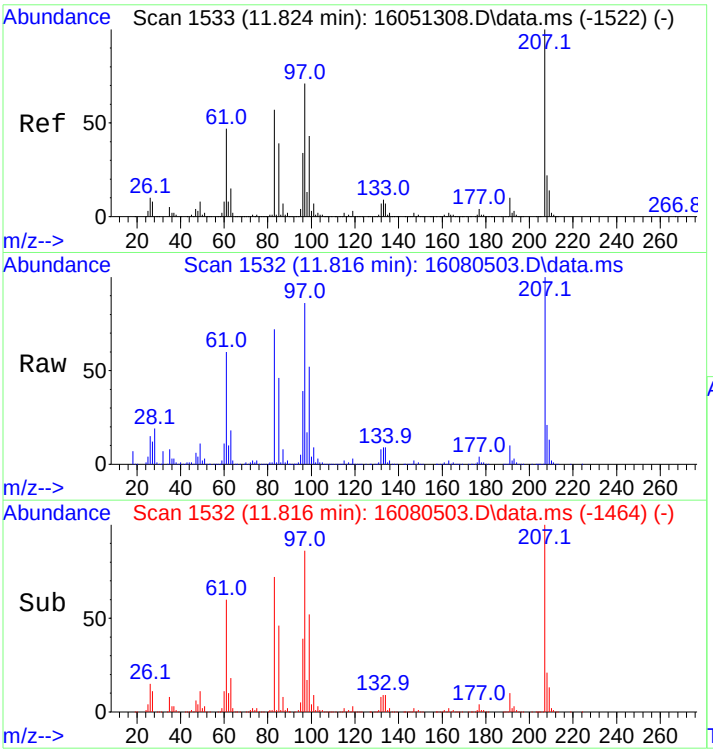


#33
Toluene
Concen: 227.49 ng
RT: 11.192 min Scan# 1449
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 571407

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.6	73.0

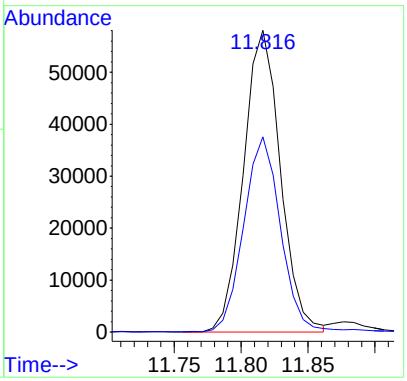


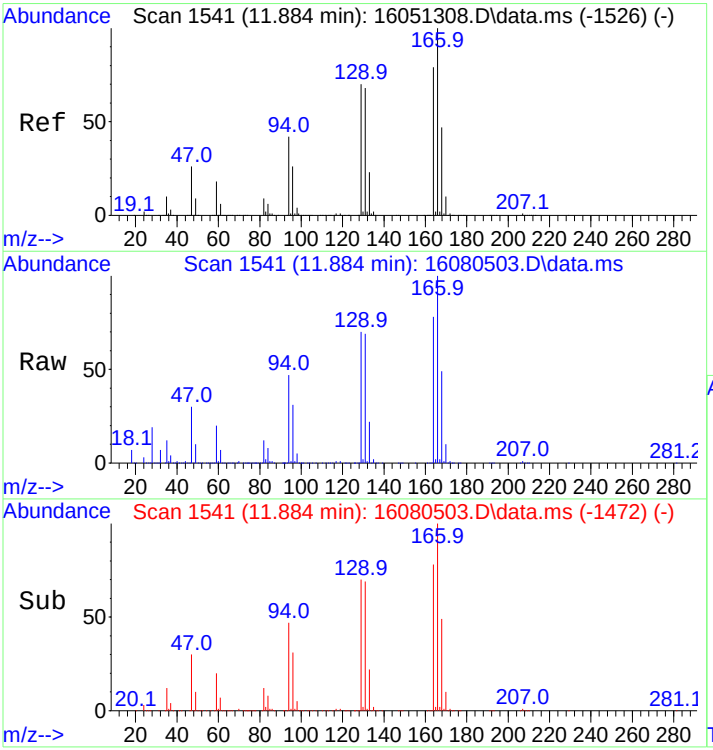


#34
1,1,2-Trichloroethane
Concen: 257.65 ng
RT: 11.816 min Scan# 1532
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 111844

Ion	Ratio	Lower	Upper
83	100		
85	65.2	54.7	82.1

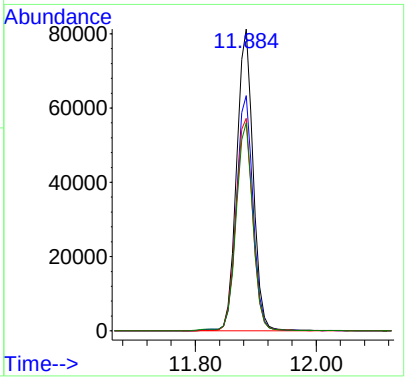


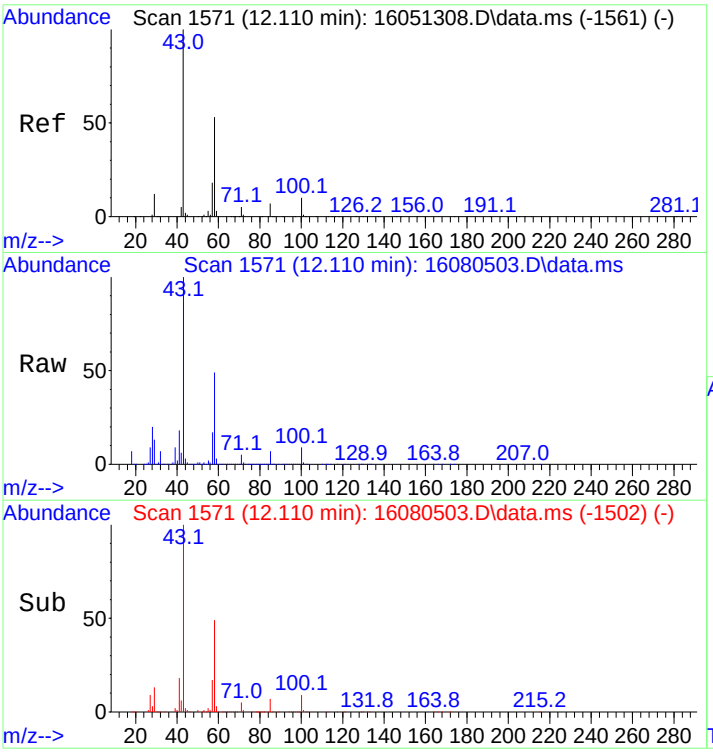


#35
Tetrachloroethene
Concen: 233.89 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:166 Resp: 153860

Ion	Ratio	Lower	Upper
166	100		
164	79.2	63.2	94.8
129	72.2	55.5	83.3
131	70.2	55.2	82.8

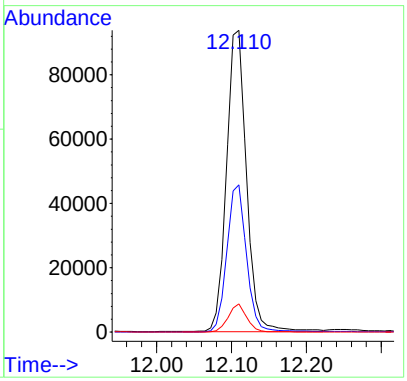


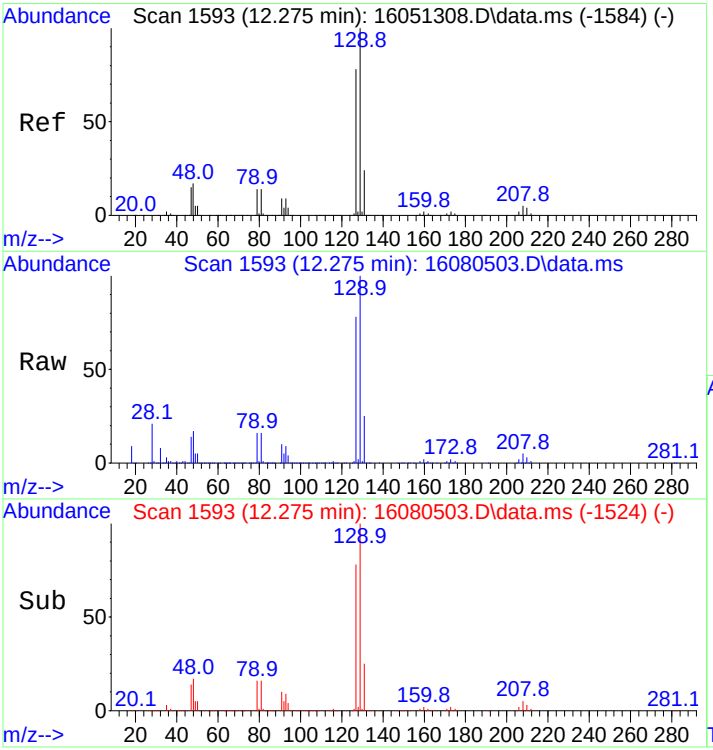


#36
2-Hexanone
Concen: 269.83 ng
RT: 12.110 min Scan# 1571
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 173872

Ion	Ratio	Lower	Upper
43	100		
58	48.2	43.6	65.4
100	8.7	7.8	11.8

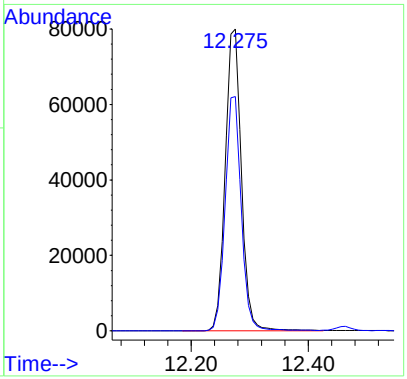


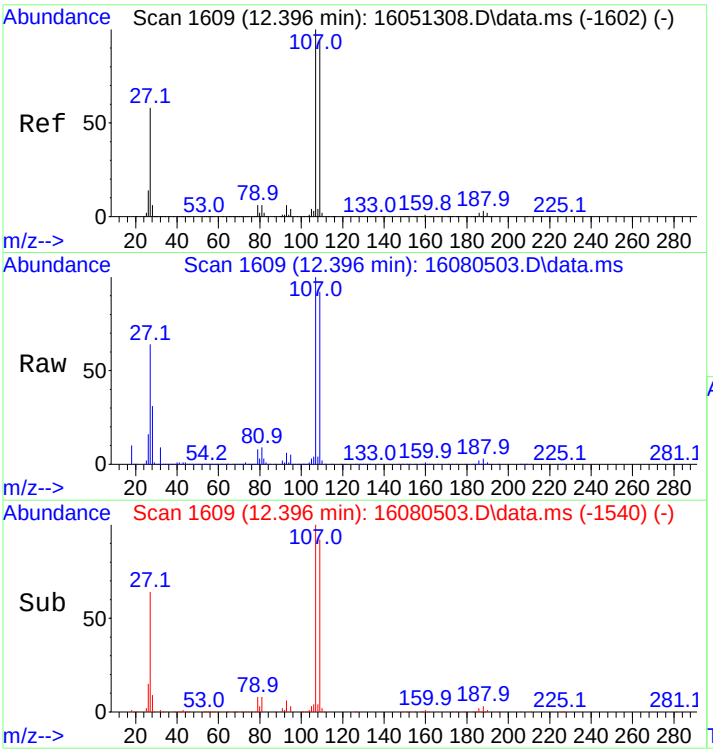


#37
Chlorodibromomethane
Concen: 260.01 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:129 Resp: 153085

Ion	Ratio	Lower	Upper
129	100		
127	77.3	62.3	93.5

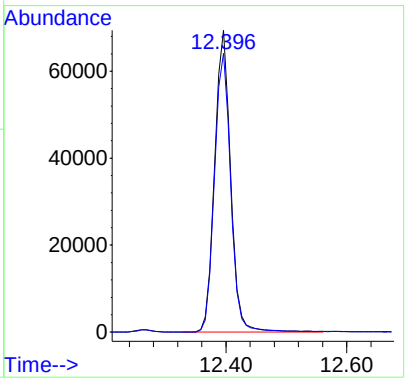


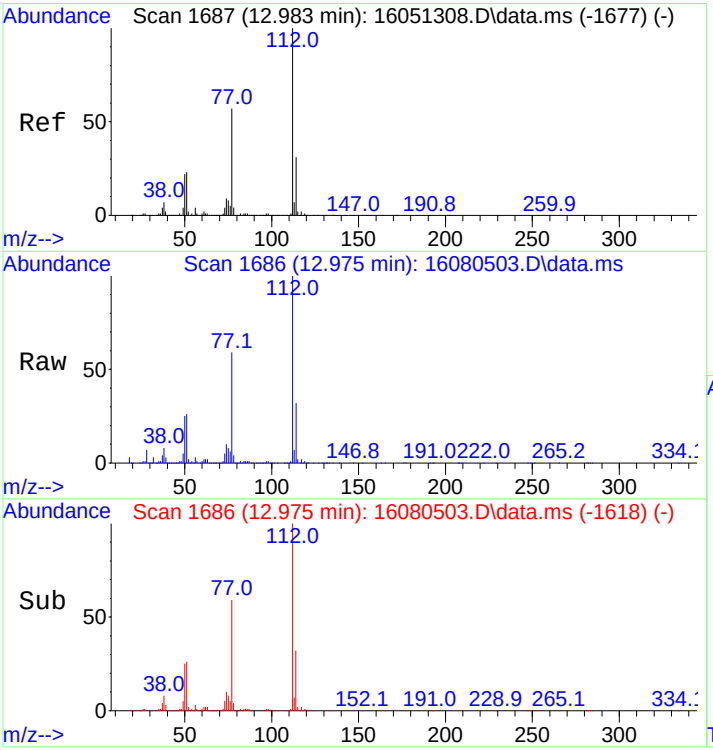


#38
Ethylene Dibromide
Concen: 237.42 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:107 Resp: 127595

Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.3	111.5

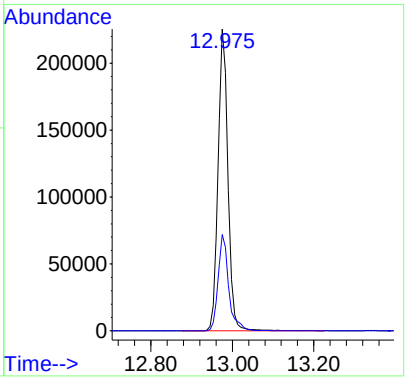


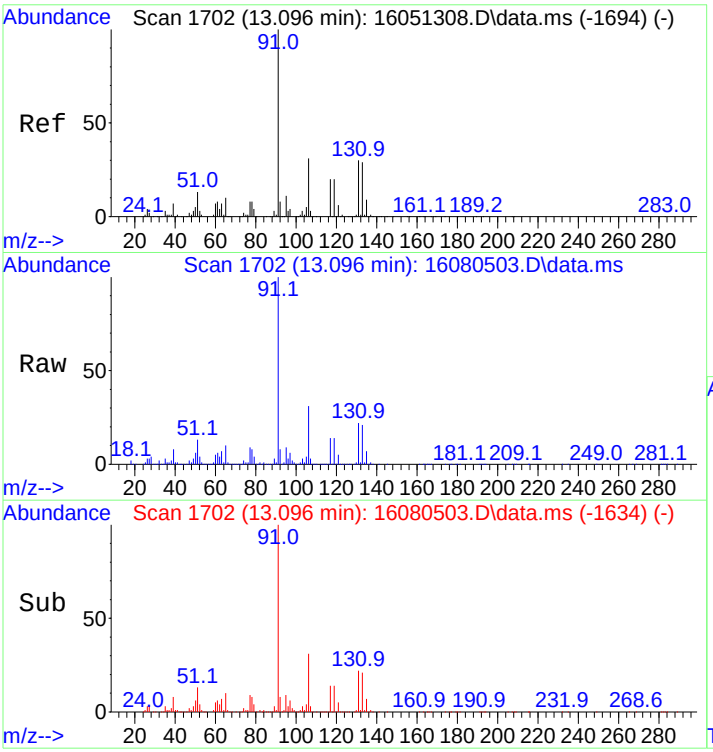


#39
Chlorobenzene
Concen: 247.62 ng
RT: 12.975 min Scan# 1686
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:112 Resp: 382182

Ion	Ratio	Lower	Upper
112	100		
114	34.3	27.5	41.3

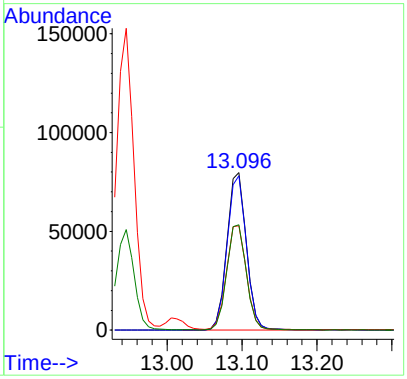


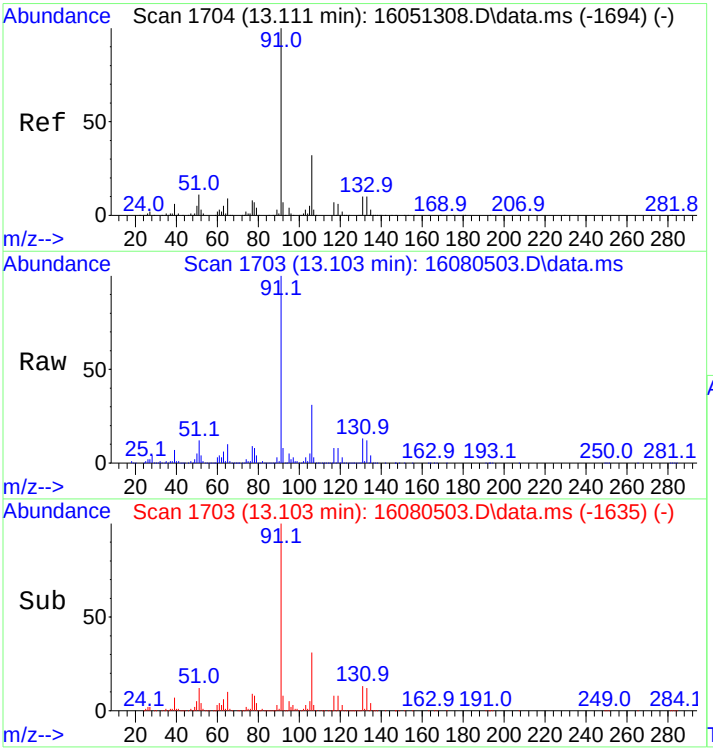


#40
1,1,1,2-Tetrachloroethane
Concen: 262.43 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:131 Resp: 143754

Ion	Ratio	Lower	Upper
131	100		
133	97.3	77.8	116.6
117	68.1	57.1	85.7
119	67.3	54.3	81.5

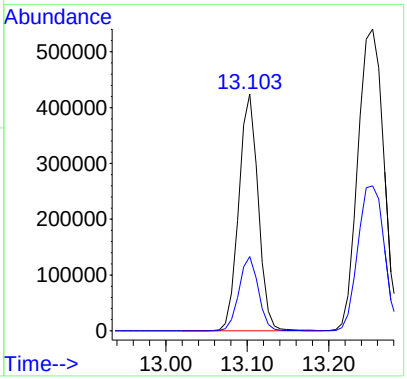


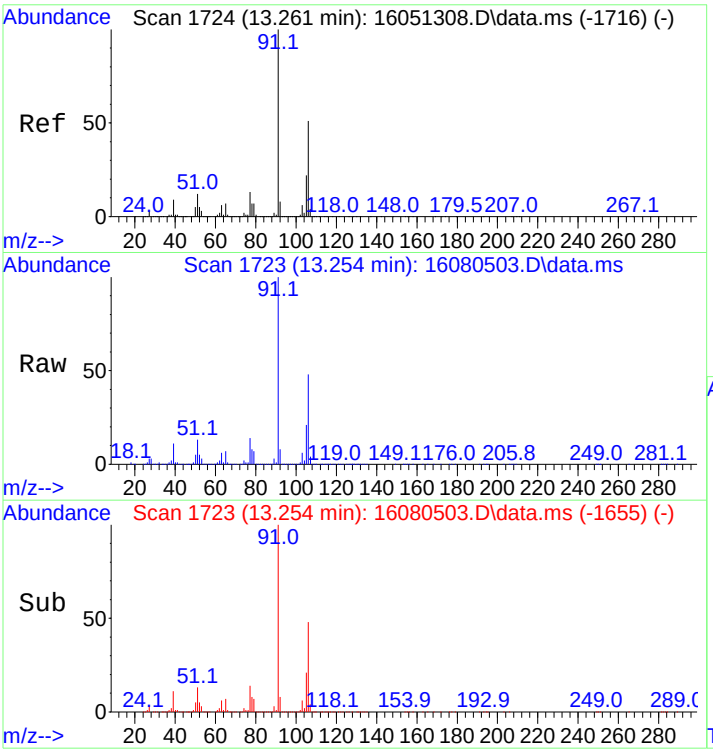


#41
Ethylbenzene
Concen: 245.41 ng
RT: 13.103 min Scan# 1703
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 700261

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.5	38.3

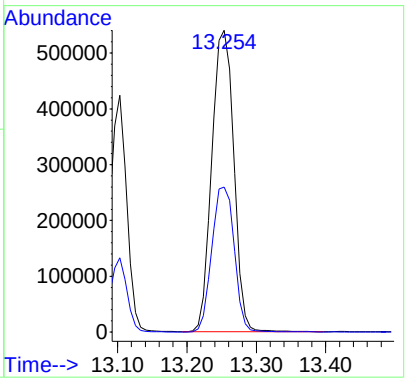


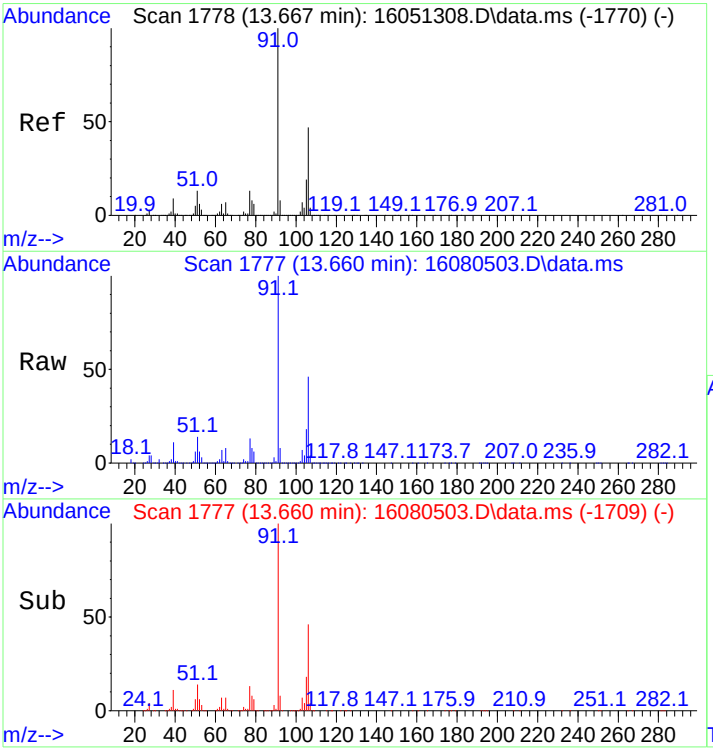


#42
M&P-Xylene
Concen: 489.84 ng
RT: 13.254 min Scan# 1723
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 1188646

Ion	Ratio	Lower	Upper
91	100		
106	49.3	40.4	60.6

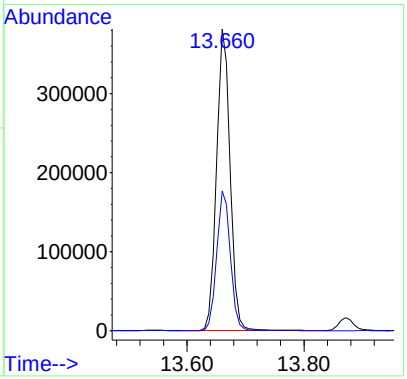


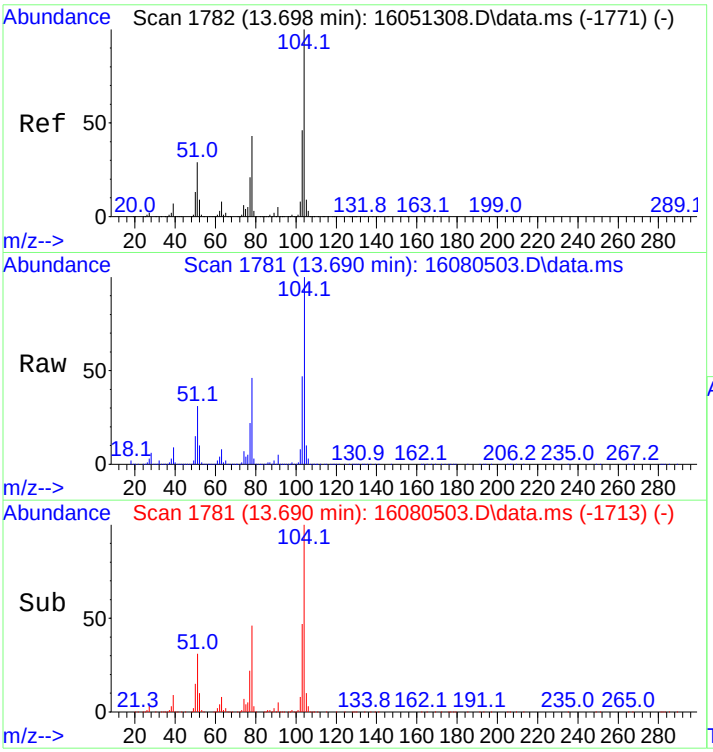


#43
O-Xylene
Concen: 243.90 ng
RT: 13.660 min Scan# 1777
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 613520

Ion	Ratio	Lower	Upper
91	100		
106	46.9	38.2	57.2

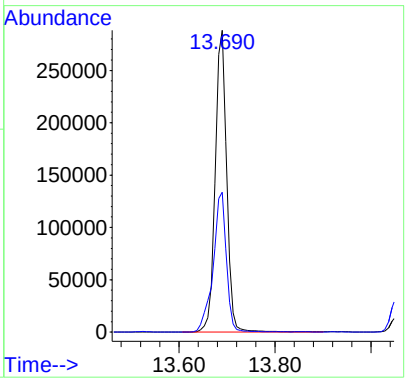


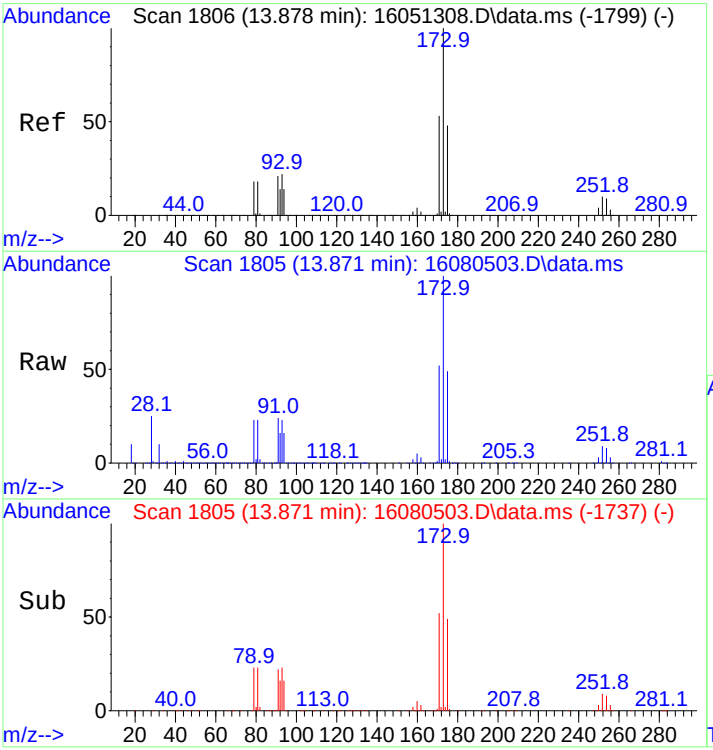


#44
Styrene
Concen: 221.69 ng
RT: 13.690 min Scan# 1781
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:104 Resp: 476019

Ion	Ratio	Lower	Upper
104	100		
78	53.9	39.8	59.6

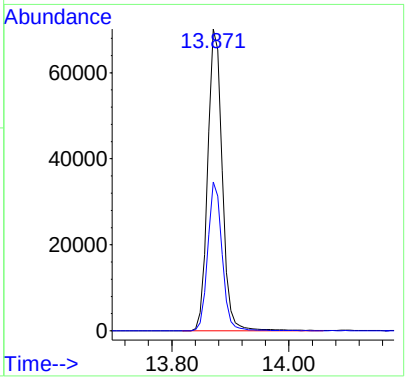


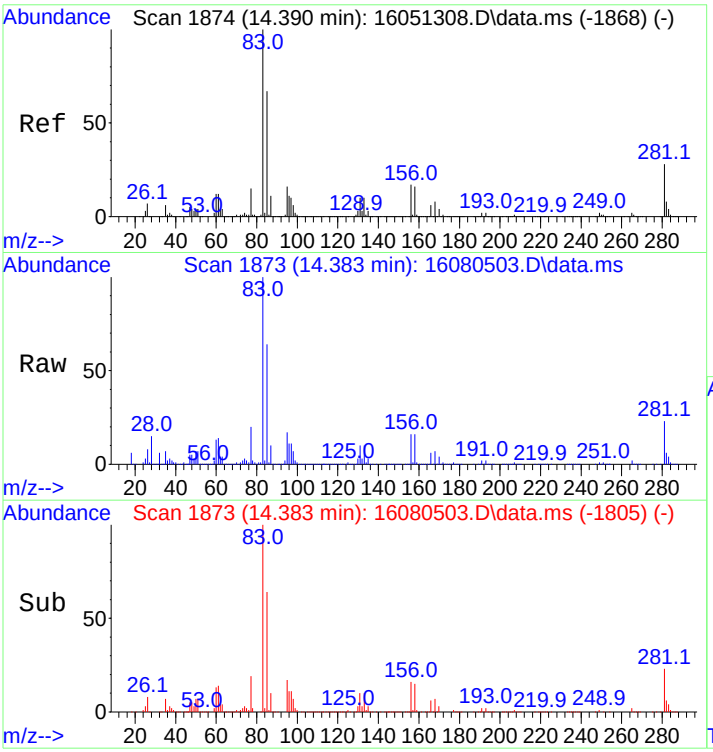


#45
Bromoform
Concen: 260.80 ng
RT: 13.871 min Scan# 1805
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:173 Resp: 121016

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.5	57.7

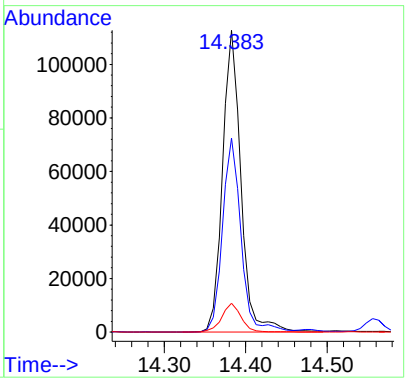


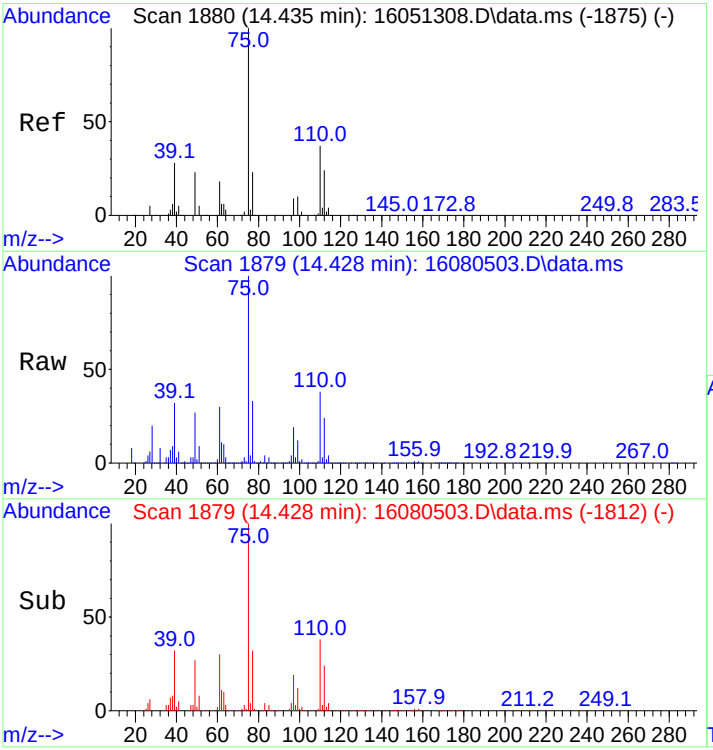


#46
1,1,2,2-Tetrachloroethane
Concen: 243.24 ng
RT: 14.383 min Scan# 1873
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 178373

Ion	Ratio	Lower	Upper
83	100		
85	64.2	53.1	79.7
131	10.1	8.9	13.3

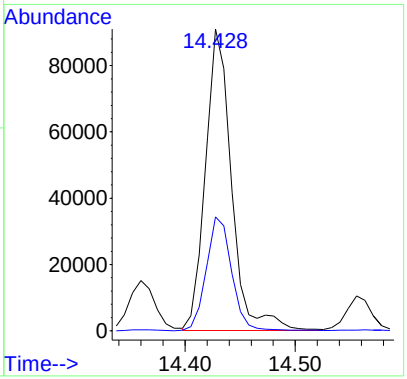


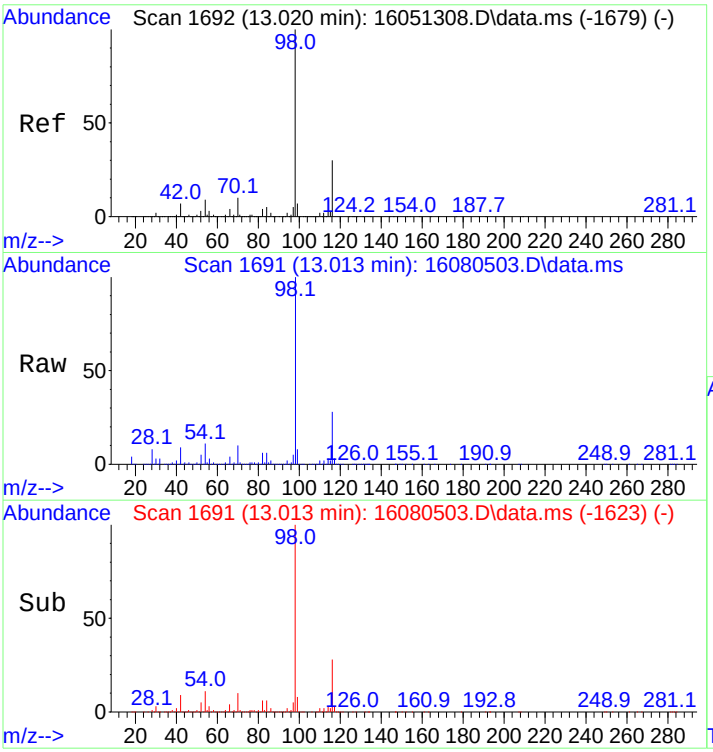


#47
1,2,3-Trichloropropane
Concen: 247.98 ng
RT: 14.428 min Scan# 1879
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 150222

Ion	Ratio	Lower	Upper
75	100		
110	36.7	30.5	45.7

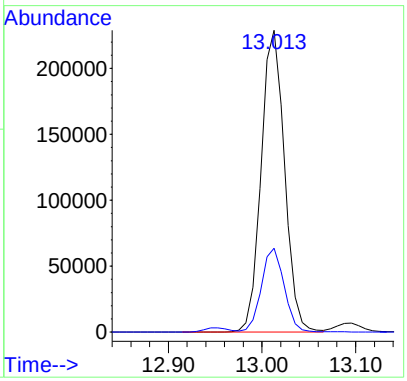


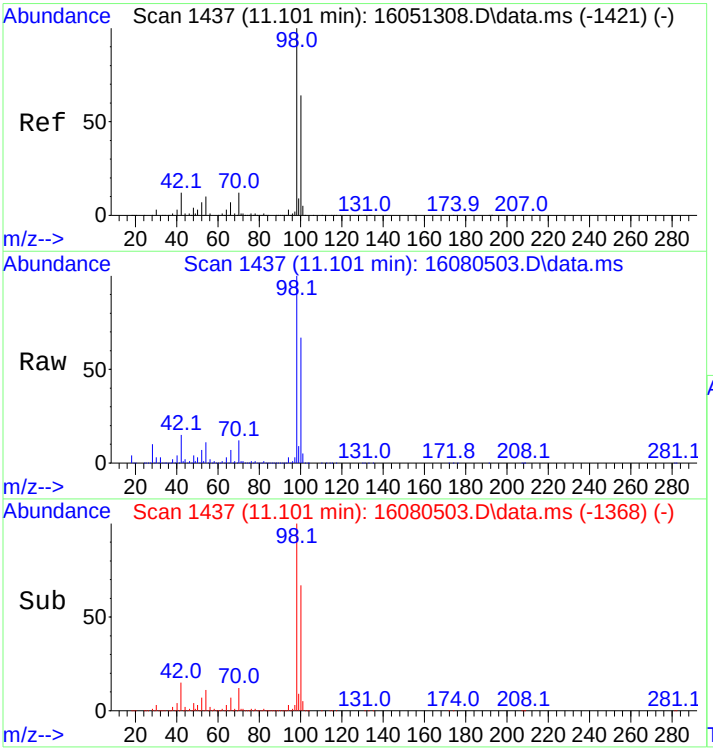


#48
d10-Ethylbenzene(SPK)
Concen: 228.45 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 98 Resp: 397643

Ion	Ratio	Lower	Upper
98	100		
116	27.1	23.4	35.0

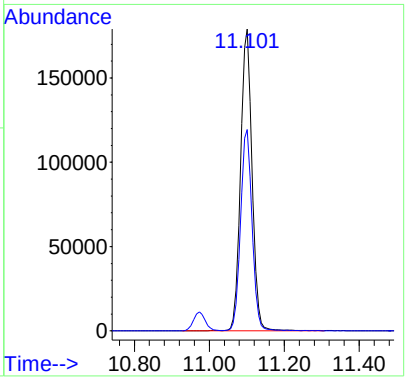


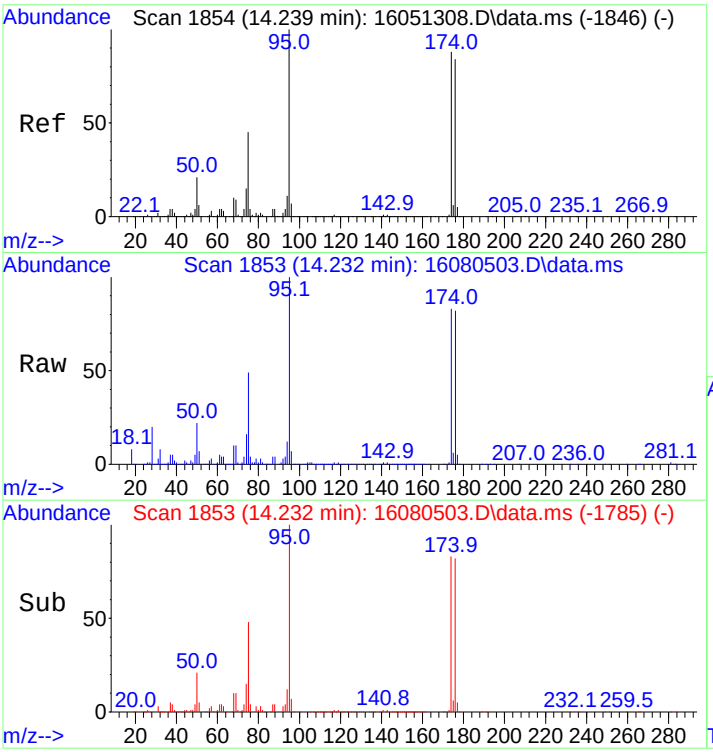


#49
d8-Toluene(SURR)
Concen: 254.36 ng
RT: 11.101 min Scan# 1437
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 98 Resp: 381595

Ion	Ratio	Lower	Upper
98	100		
100	66.8	56.0	84.0

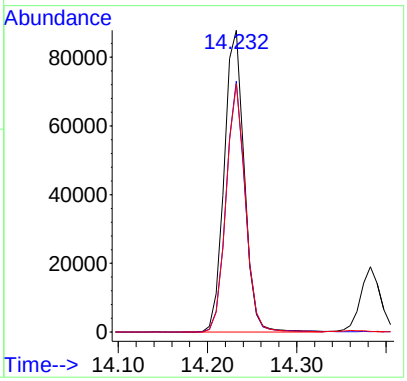


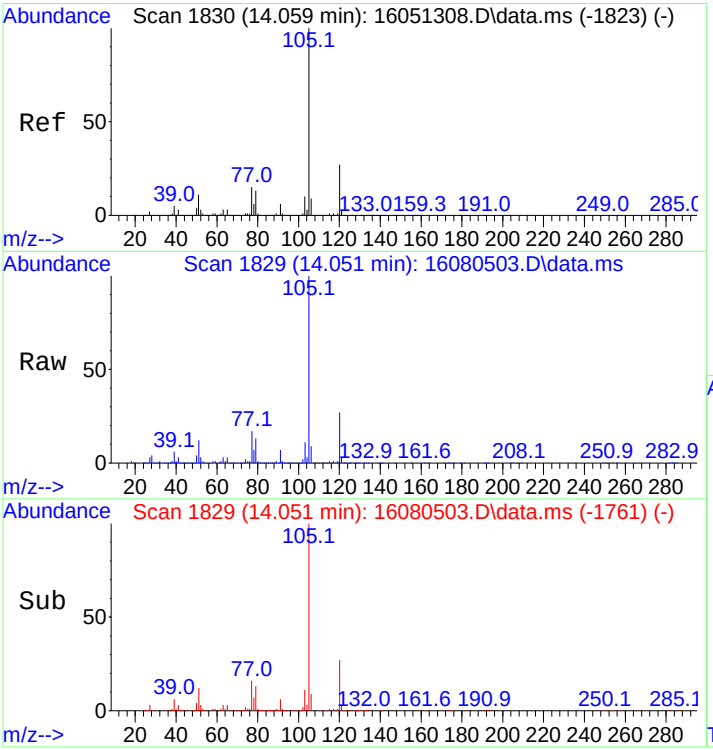


#50
4-Bromofluorobenzene(SURR)
Concen: 275.51 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 95 Resp: 137423

Ion	Ratio	Lower	Upper
95	100		
174	79.0	67.8	101.8
176	78.8	64.8	97.2

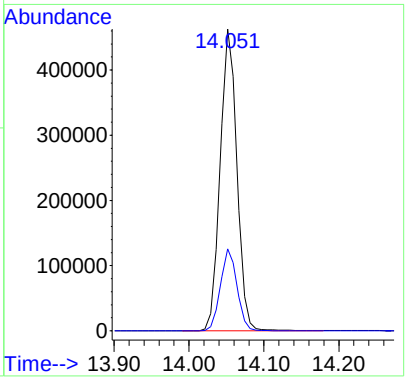


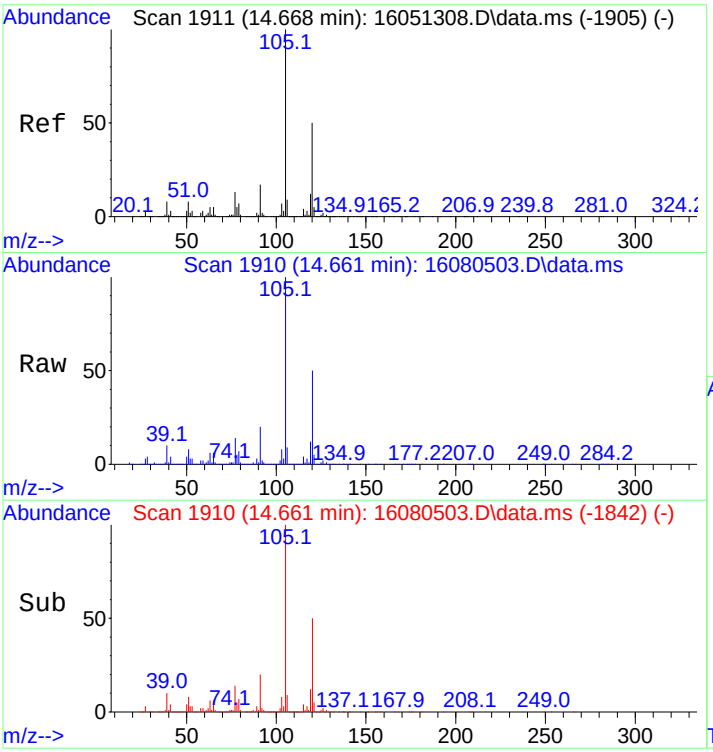


#51
Isopropylbenzene
Concen: 245.54 ng
RT: 14.051 min Scan# 1829
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 717811

Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.4	32.2

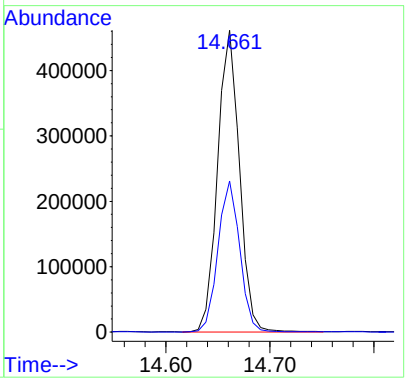


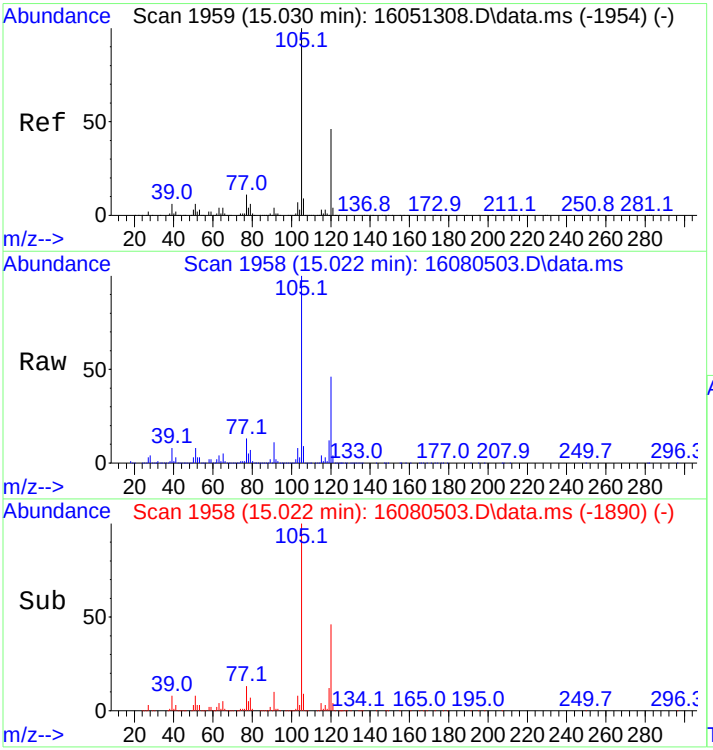


#52
1,3,5-Trimethylbenzene
Concen: 235.95 ng
RT: 14.661 min Scan# 1910
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 672235

Ion	Ratio	Lower	Upper
105	100		
120	49.9	39.9	59.9

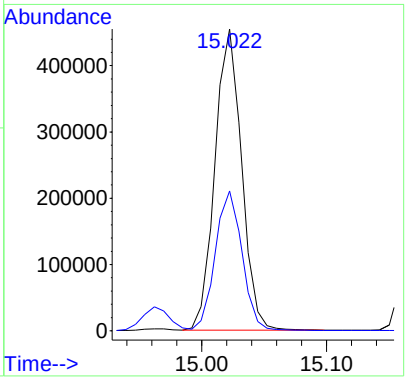


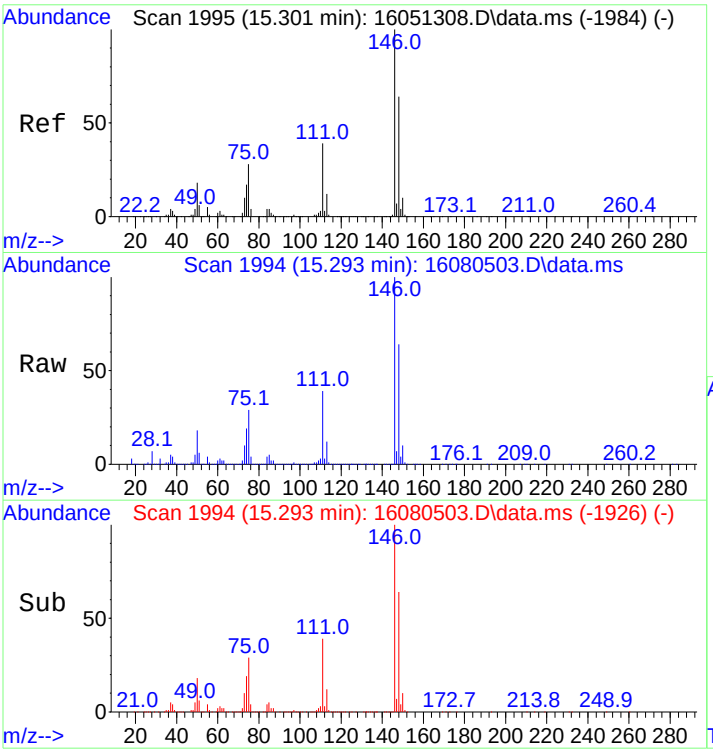


#53
1,2,4-Trimethylbenzene
Concen: 239.56 ng
RT: 15.022 min Scan# 1958
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 673928

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.5	56.3

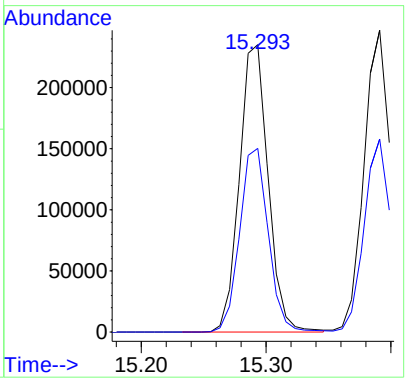


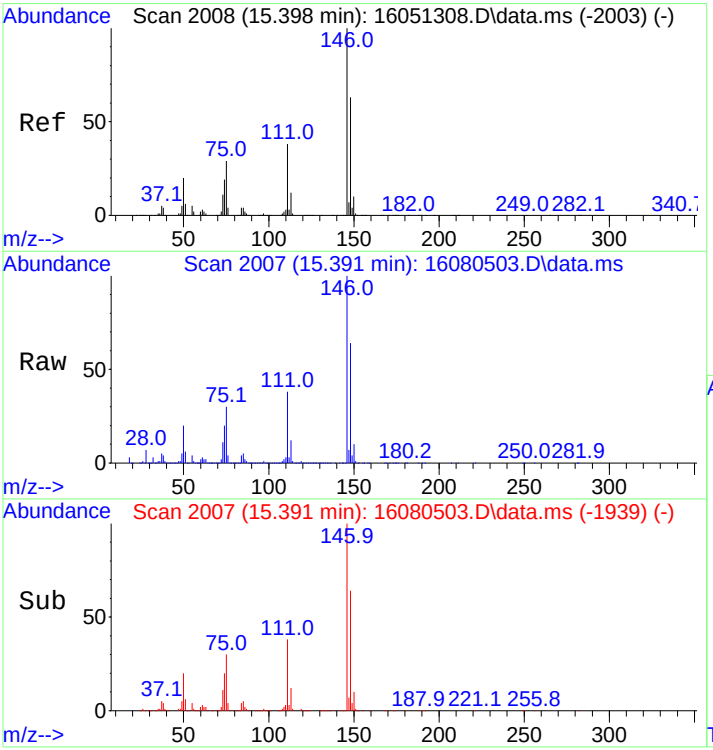


#54
1,3-Dichlorobenzene
Concen: 256.38 ng
RT: 15.293 min Scan# 1994
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:146 Resp: 376407

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.6	76.0

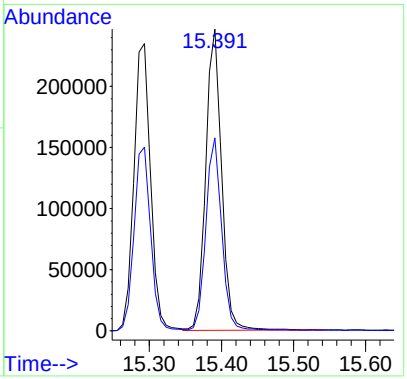


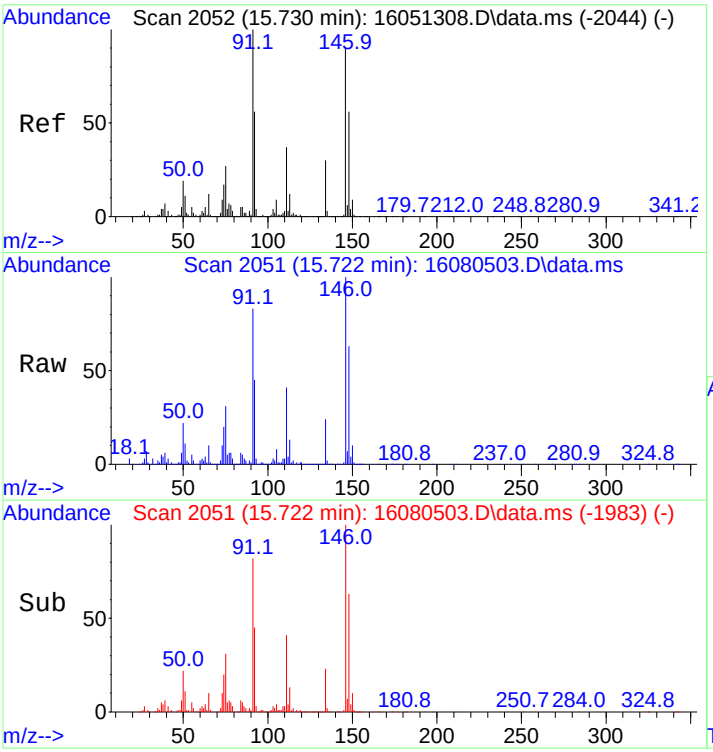


#55
1,4-Dichlorobenzene
Concen: 244.68 ng
RT: 15.391 min Scan# 2007
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:146 Resp: 379706

Ion	Ratio	Lower	Upper
146	100		
148	64.3	49.9	74.9

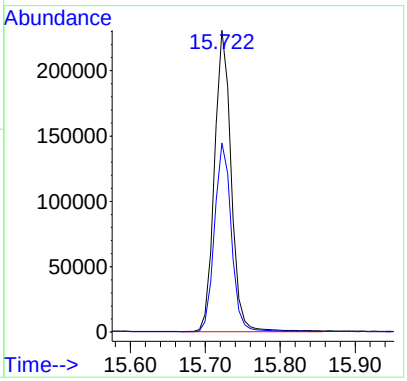


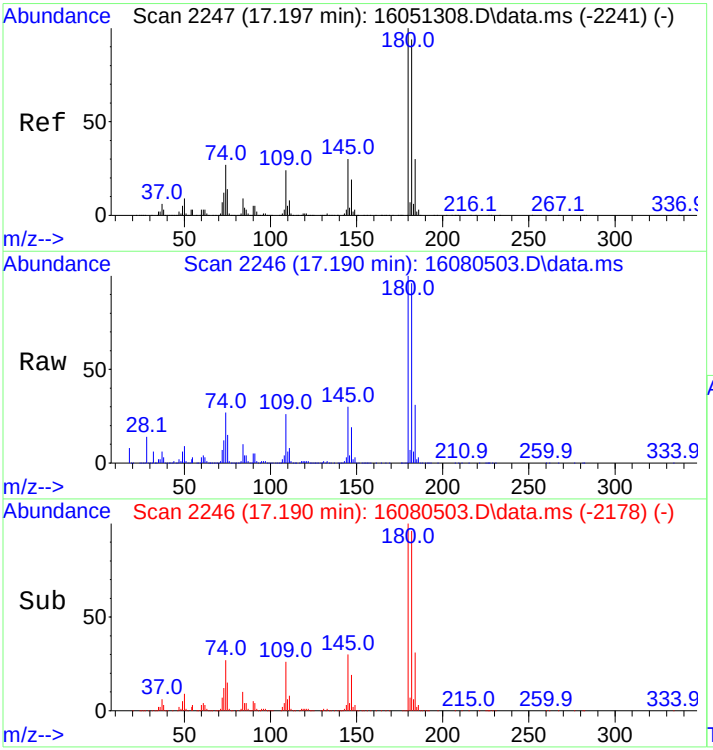


#56
1,2-Dichlorobenzene
Concen: 256.66 ng
RT: 15.722 min Scan# 2051
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:146 Resp: 356400

Ion	Ratio	Lower	Upper
146	100		
148	64.0	49.9	74.9

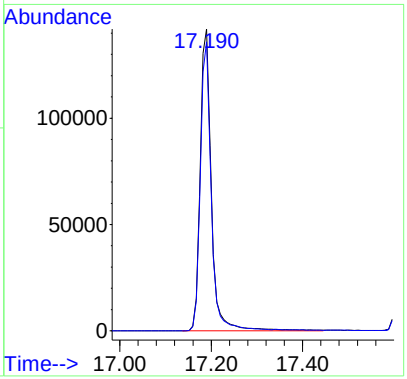


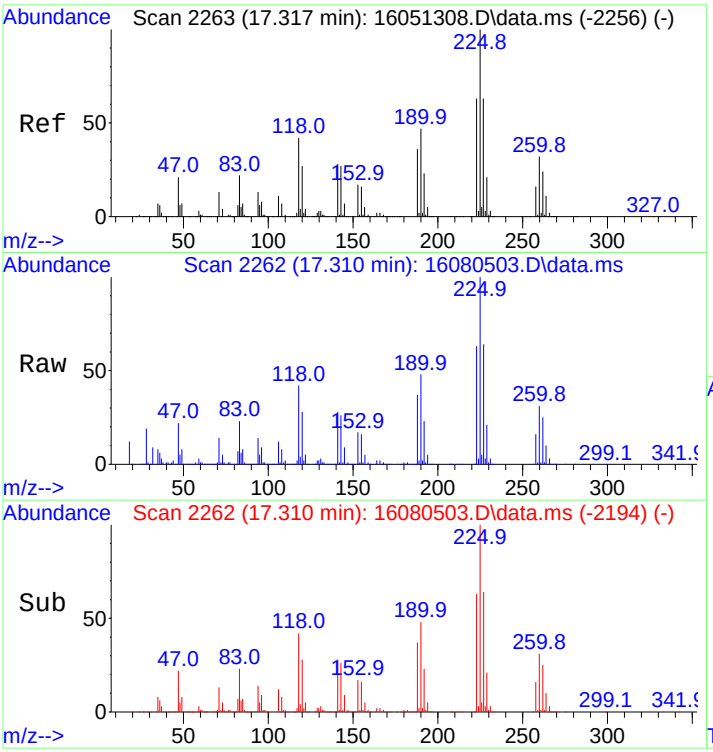


#57
1,2,4-Trichlorobenzene
Concen: 203.92 ng
RT: 17.190 min Scan# 2246
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:180 Resp: 240174

Ion	Ratio	Lower	Upper
180	100		
182	93.3	75.0	112.4

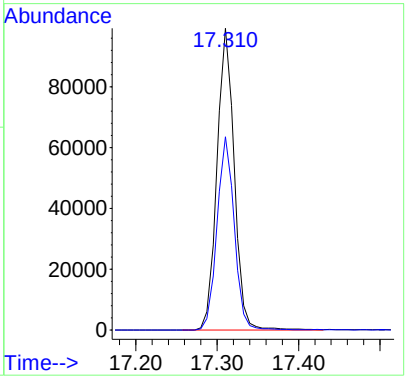


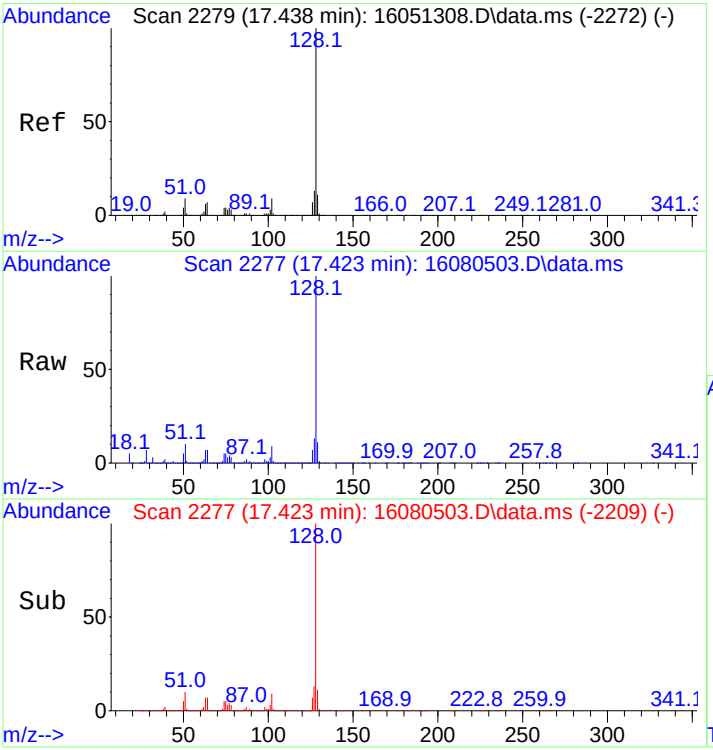


#58
Hexachlorobutadiene
Concen: 237.65 ng
RT: 17.310 min Scan# 2262
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:225 Resp: 147127

Ion	Ratio	Lower	Upper
225	100		
227	63.9	51.1	76.7

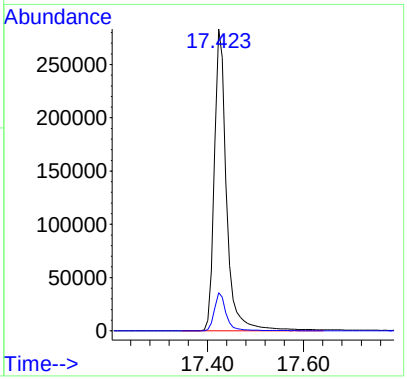


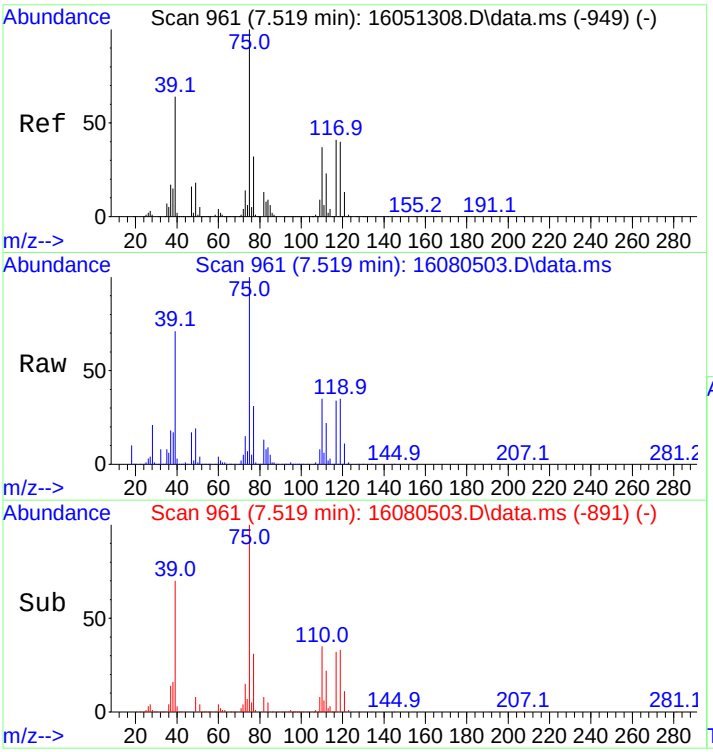


#59
Naphthalene
Concen: 173.10 ng
RT: 17.423 min Scan# 2277
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:128 Resp: 500421

Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.8	14.8

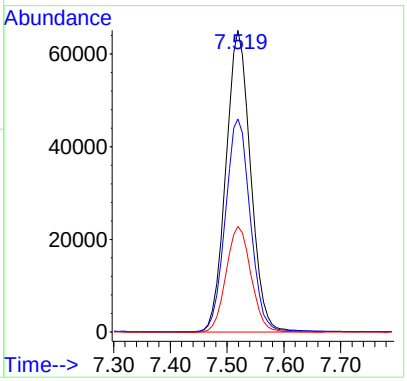


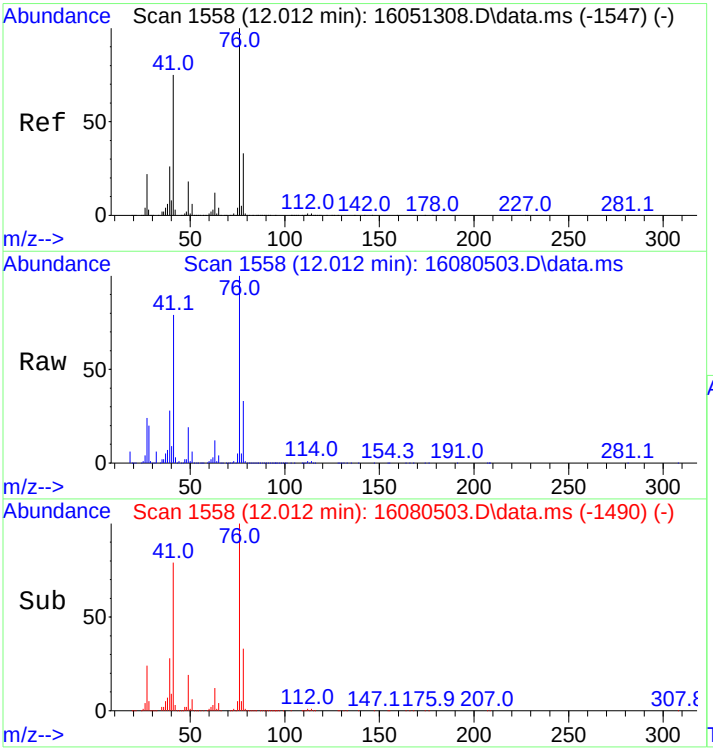


#60
1,1-Dichloropropene
Concen: 244.97 ng
RT: 7.519 min Scan# 961
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 197159

Ion	Ratio	Lower	Upper
75	100		
39	71.4	51.8	77.6
110	35.4	29.3	43.9

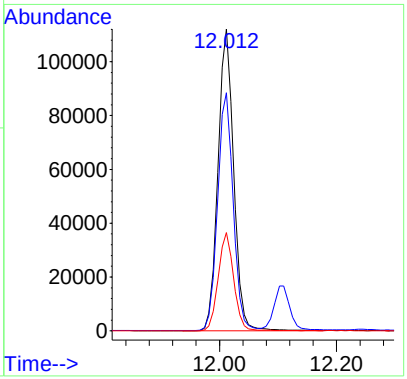


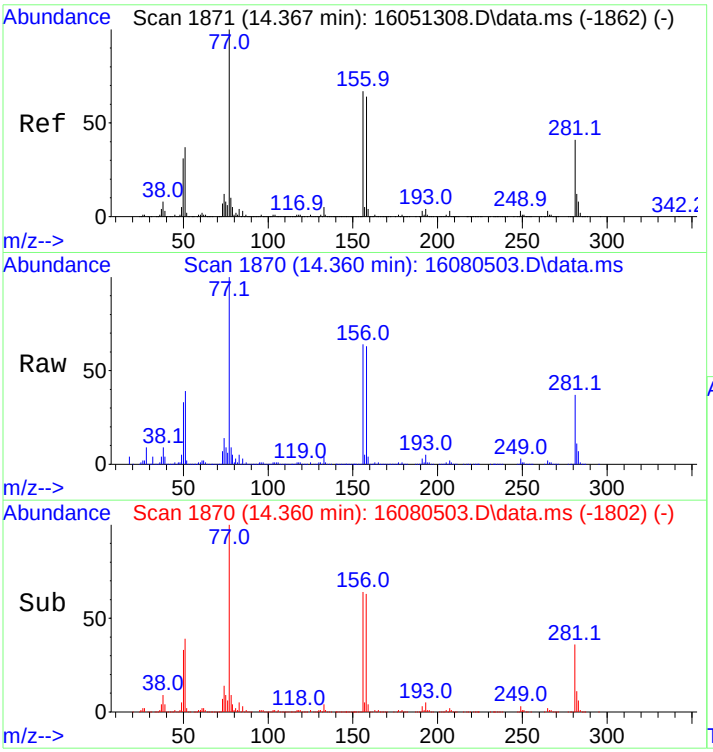


#61
1,3-Dichloropropane
Concen: 233.15 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 76 Resp: 209292

Ion	Ratio	Lower	Upper
76	100		
41	78.0	58.2	87.4
78	32.2	26.1	39.1

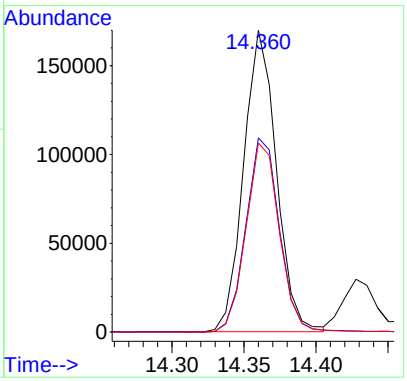


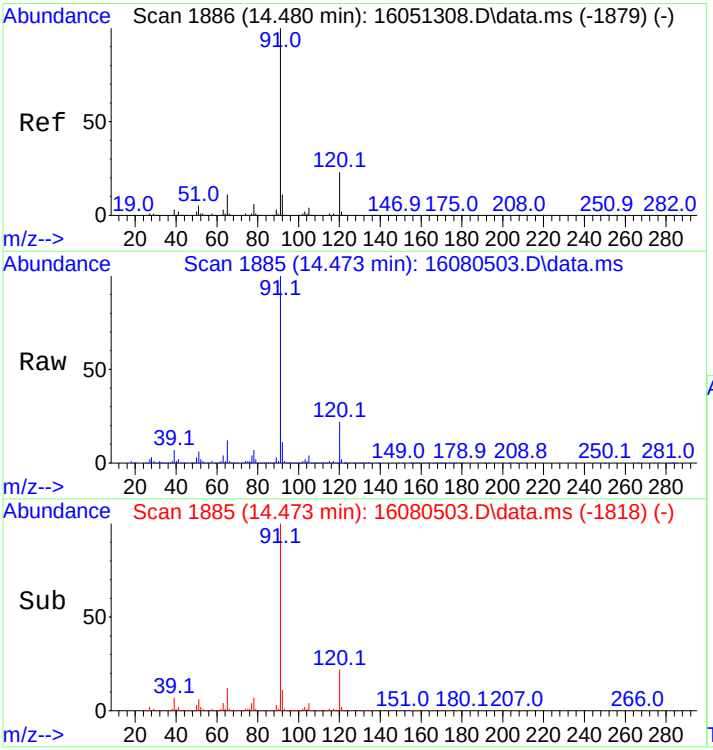


#62
Bromobenzene
Concen: 257.20 ng
RT: 14.360 min Scan# 1870
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 77 Resp: 267589

Ion	Ratio	Lower	Upper
77	100		
156	66.7	55.0	82.4
158	64.4	53.3	79.9

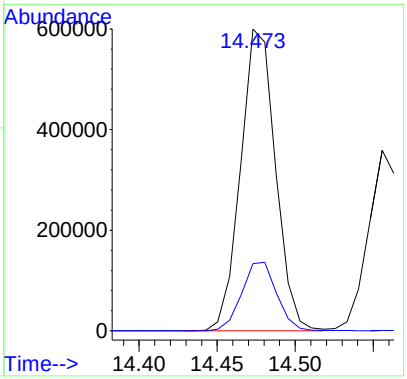


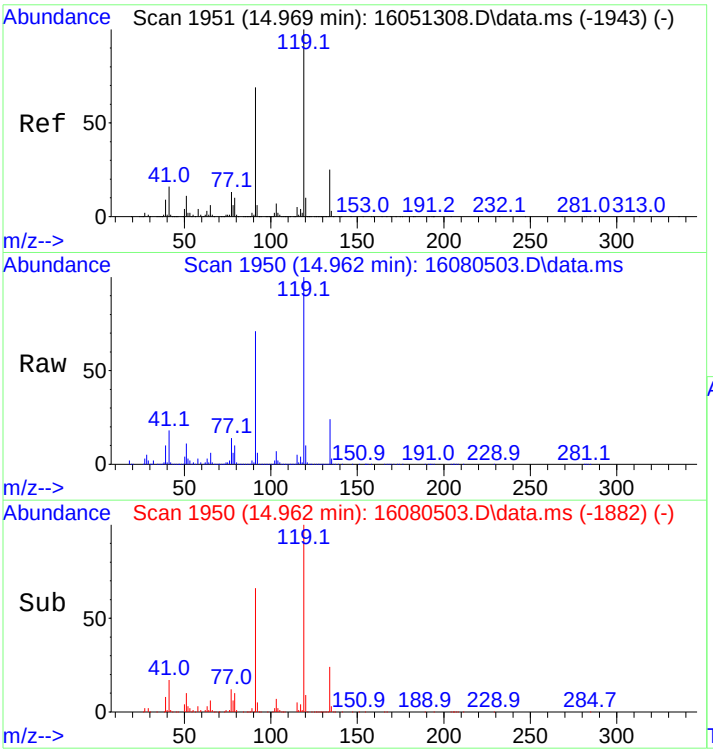


#63
n-Propylbenzene
Concen: 252.29 ng
RT: 14.473 min Scan# 1885
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 933395

Ion	Ratio	Lower	Upper
91	100		
120	23.0	18.6	28.0

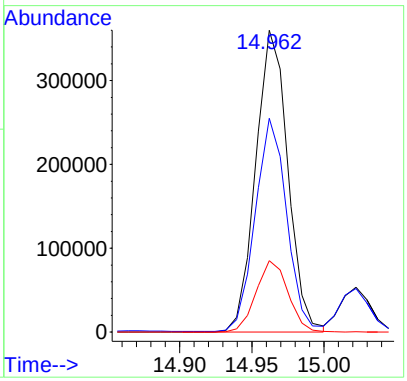


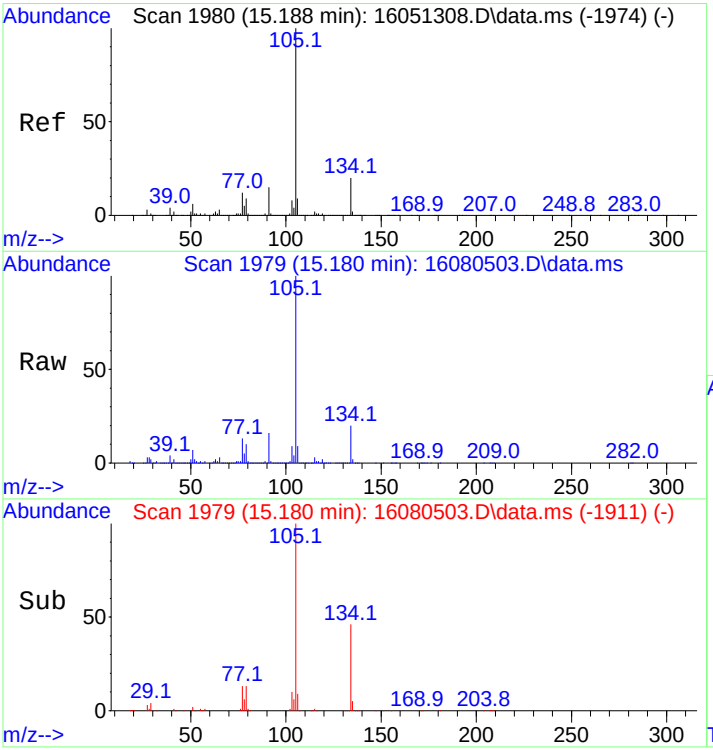


#64
tert-Butylbenzene
Concen: 251.37 ng
RT: 14.962 min Scan# 1950
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:119 Resp: 556712

Ion	Ratio	Lower	Upper
119	100		
91	69.2	54.0	81.0
134	23.7	19.9	29.9

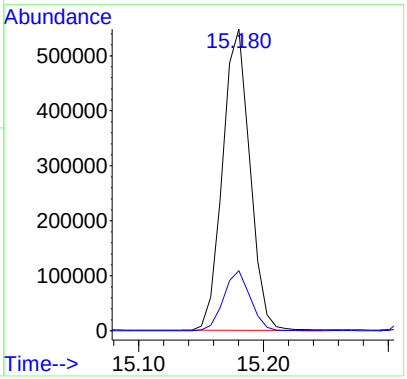


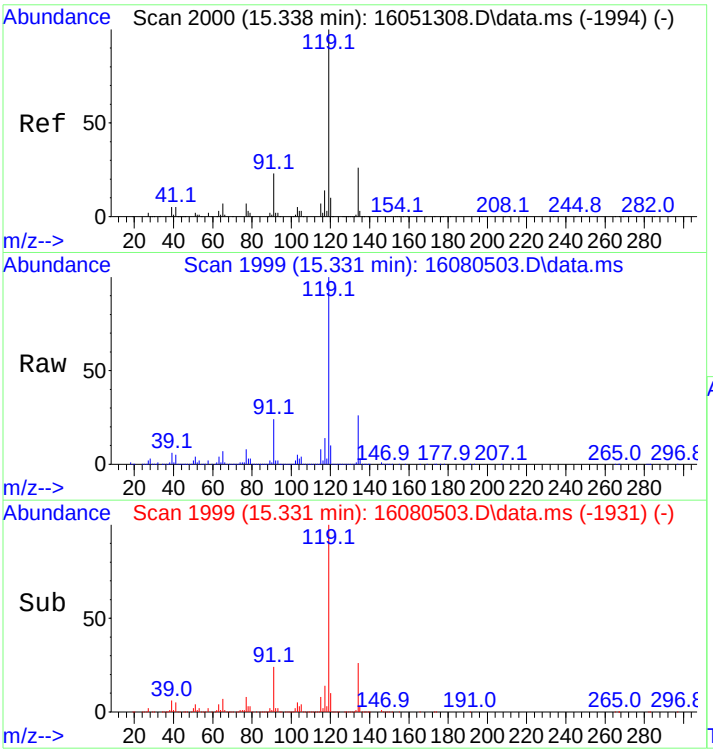


#65
sec-Butylbenzene
Concen: 244.78 ng
RT: 15.180 min Scan# 1979
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 835423

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5

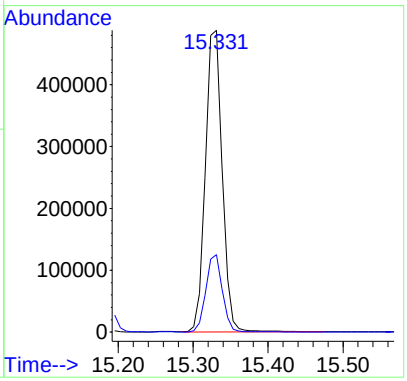


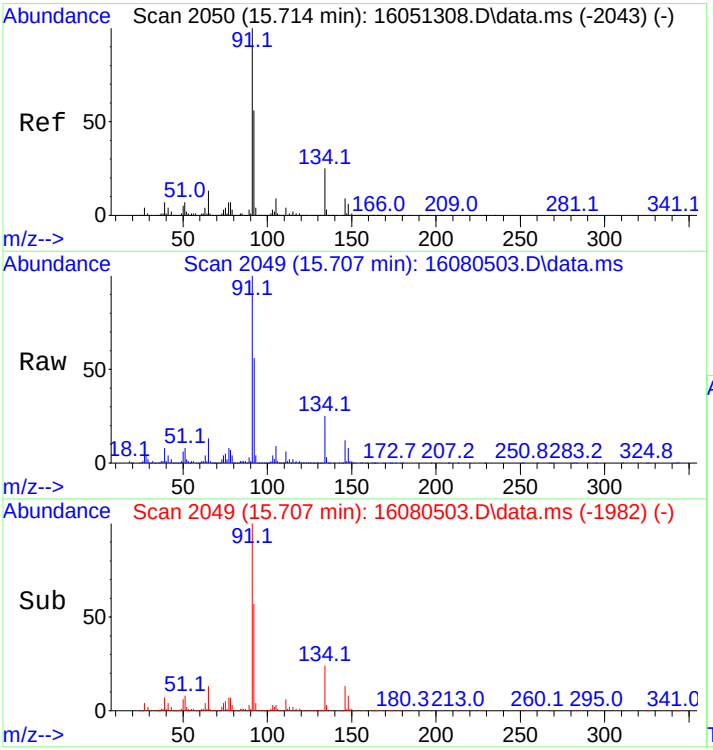


#66
p-Isopropyltoluene
Concen: 252.70 ng
RT: 15.331 min Scan# 1999
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:119 Resp: 760310

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.6	31.0

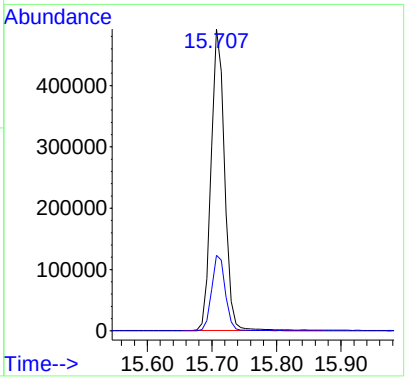


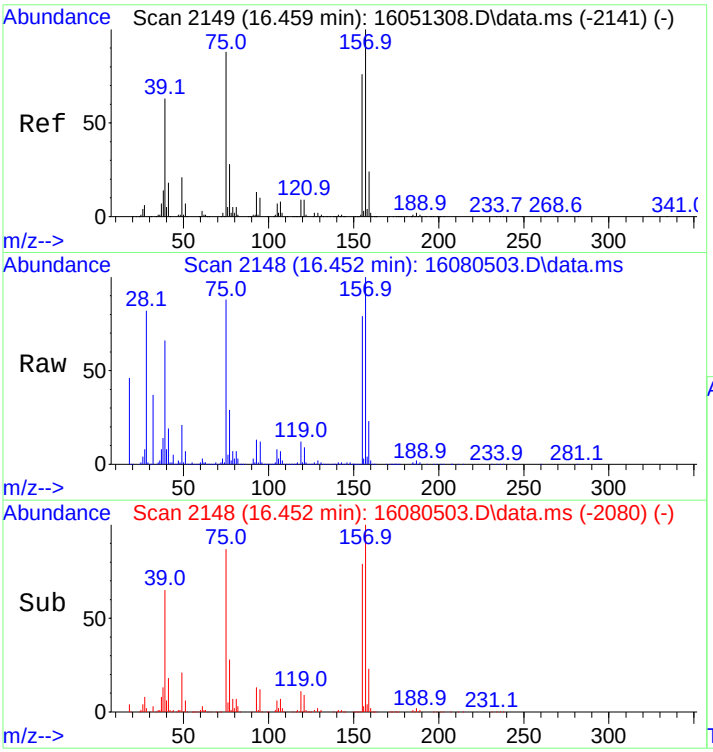


#67
n-Butylbenzene
Concen: 247.20 ng
RT: 15.707 min Scan# 2049
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 719063

Ion	Ratio	Lower	Upper
91	100		
134	25.3	21.0	31.6

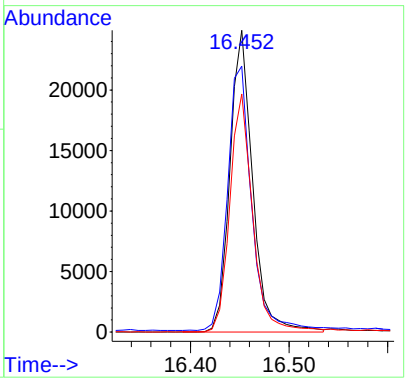




#68
1,2-Dibromo-3-chloropropane
Concen: 218.97 ng
RT: 16.452 min Scan# 2148
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:157 Resp: 39996

Ion	Ratio	Lower	Upper
157	100		
75	93.7	68.6	103.0
155	80.1	62.2	93.2



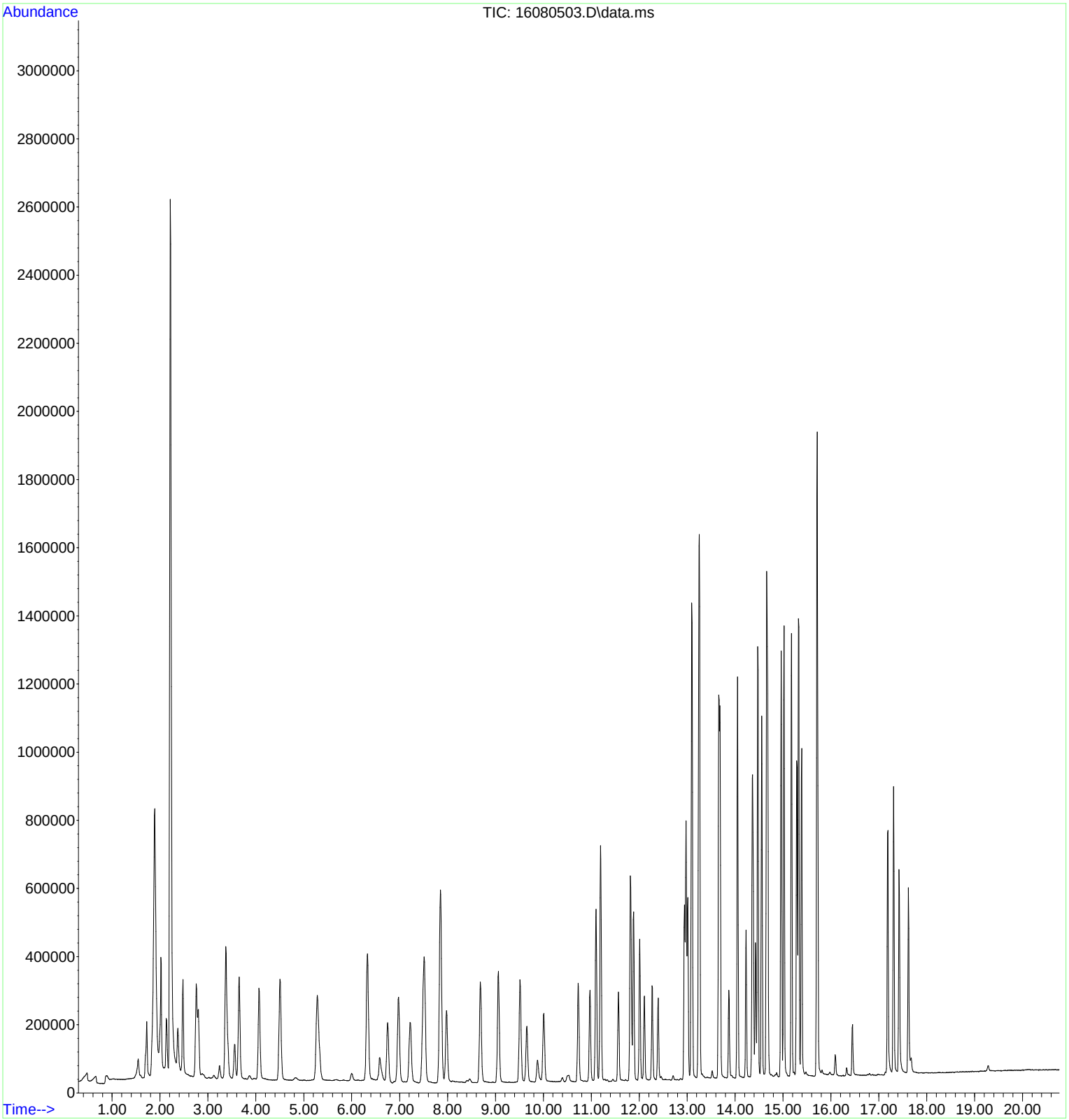
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

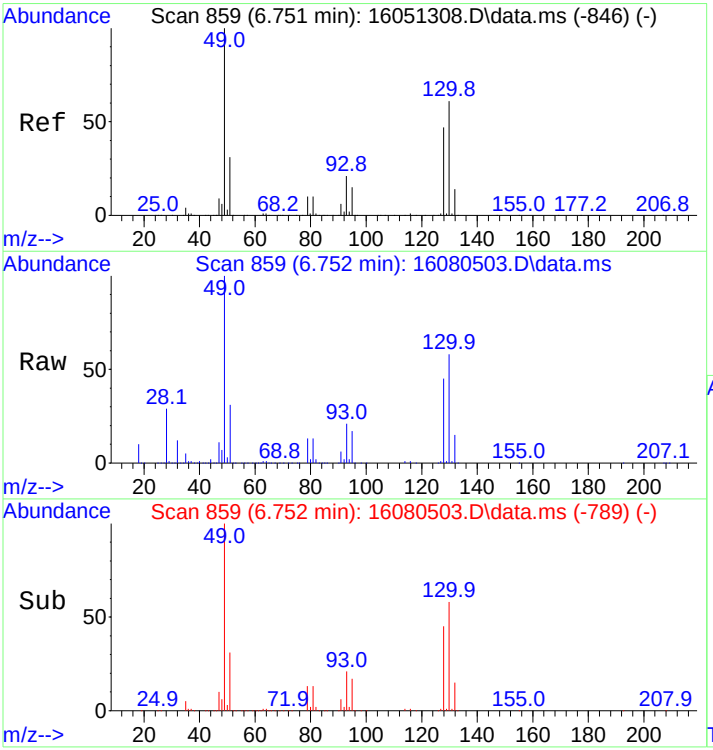
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160805\
Data File : 16080503.D
Acq On : 5 Aug 2016 11:58 am
Operator : SG Instrument MSD-3
Sample : 250 ng VOST STD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 15:51:58 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

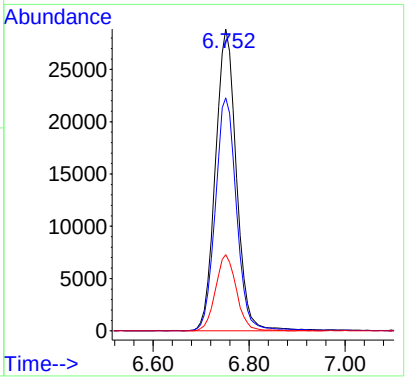


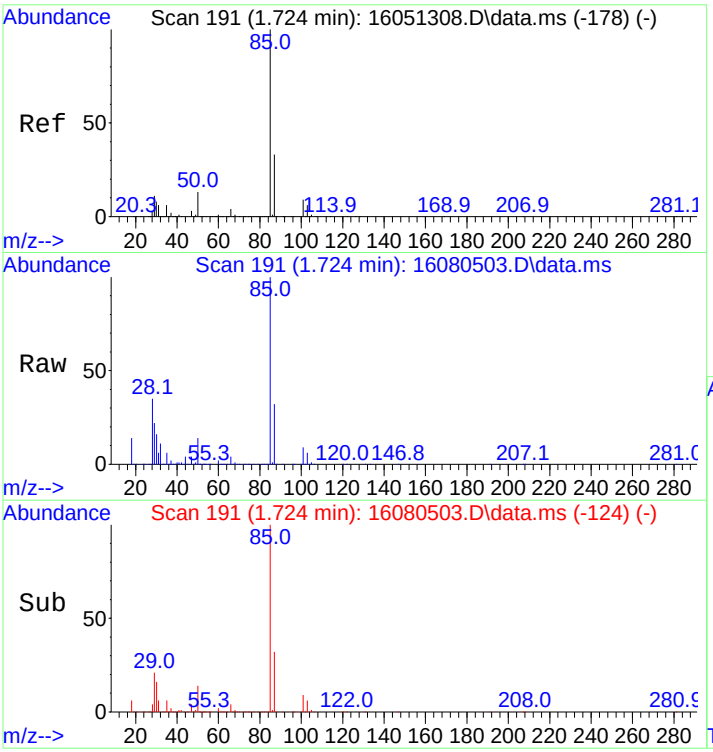


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.752 min Scan# 859
Delta R.T. 0.031 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:130 Resp: 87596

Ion	Ratio	Lower	Upper
130	100		
128	78.1	63.0	94.4
132	25.1	19.9	29.9

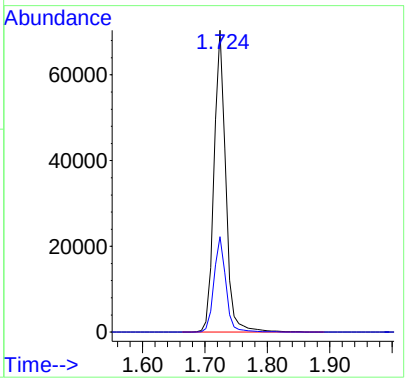


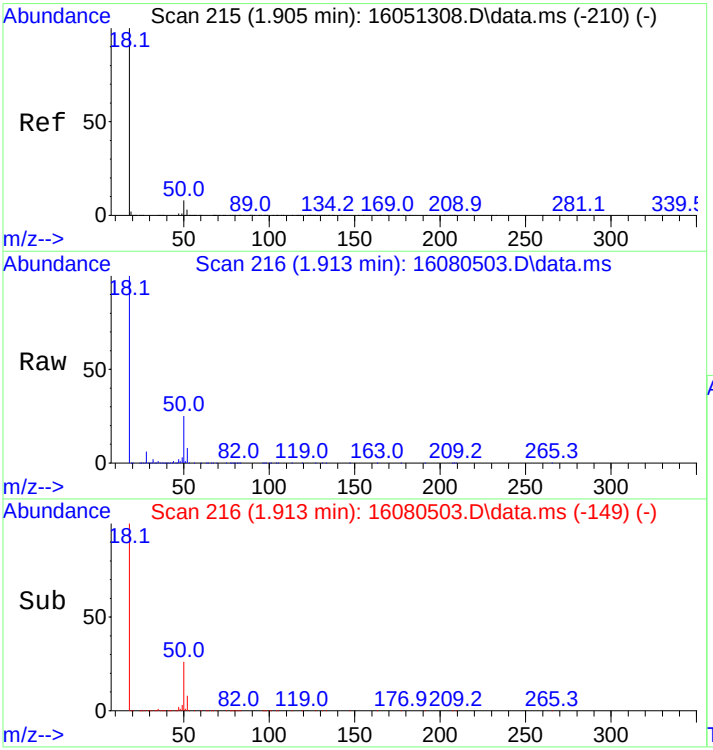


#2
Dichlorodifluoromethane
Concen: 158.65 ng
RT: 1.724 min Scan# 191
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 85 Resp: 92195

Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.0	39.0

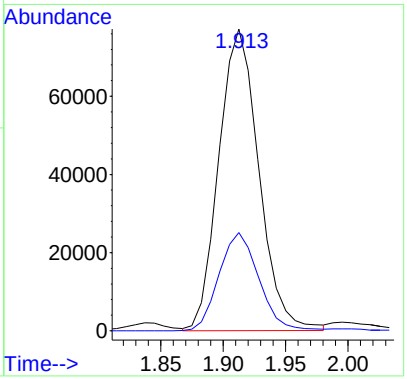


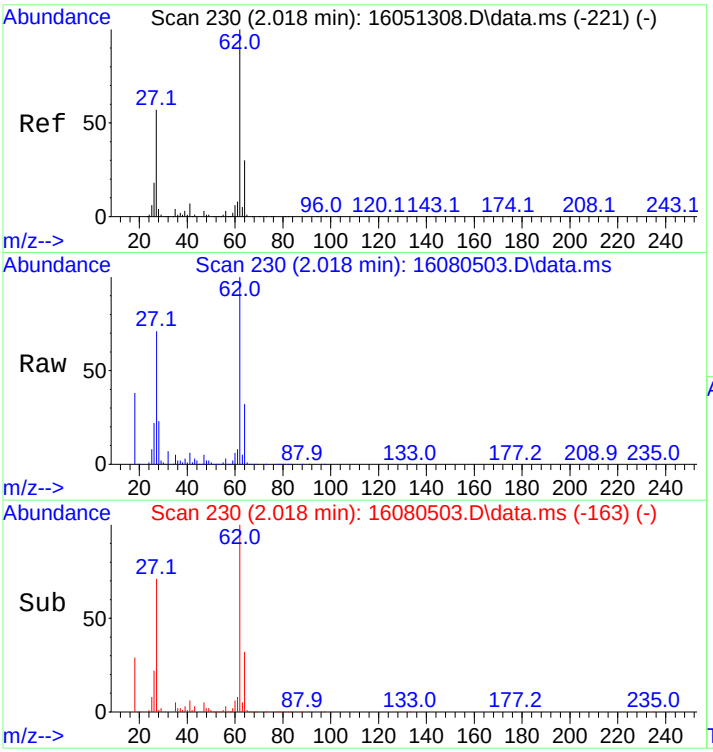


#3
Chloromethane
Concen: 250.33 ng
RT: 1.913 min Scan# 216
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 50 Resp: 172522

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.0	39.0

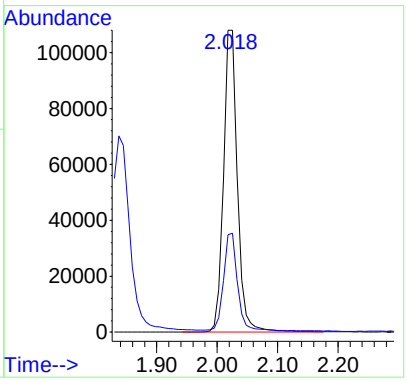


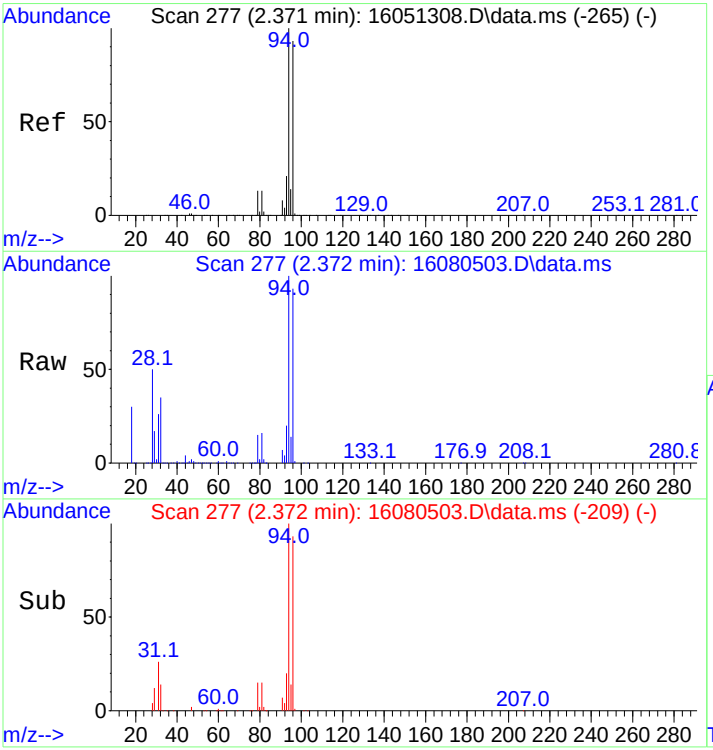


#4
Vinyl Chloride
Concen: 209.00 ng
RT: 2.018 min Scan# 230
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 62 Resp: 173117

Ion	Ratio	Lower	Upper
62	100		
64	33.6	25.7	38.5

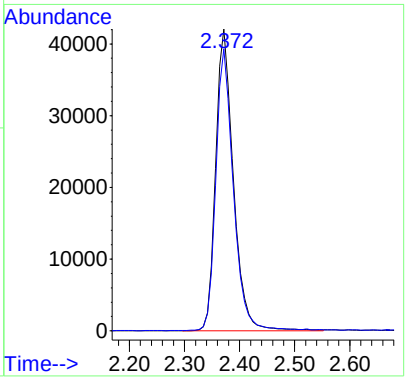


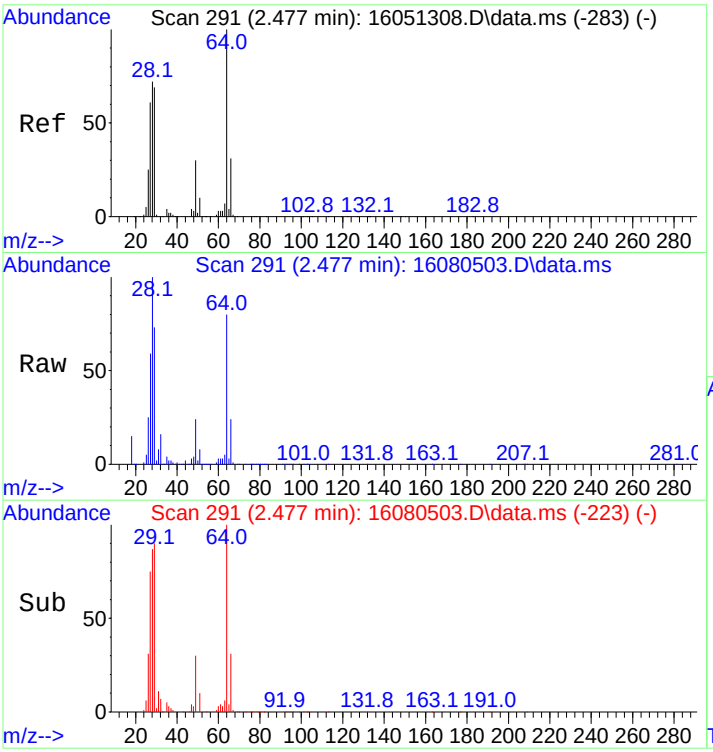


#5
Bromomethane
Concen: 255.33 ng
RT: 2.372 min Scan# 277
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 94 Resp: 93998

Ion	Ratio	Lower	Upper
94	100		
96	92.3	74.5	111.7

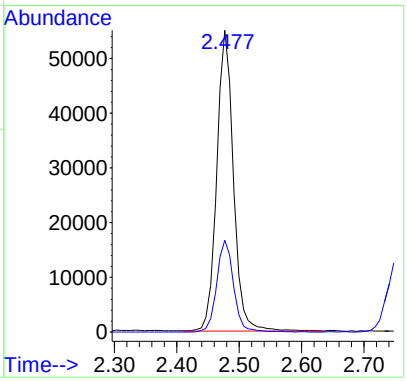


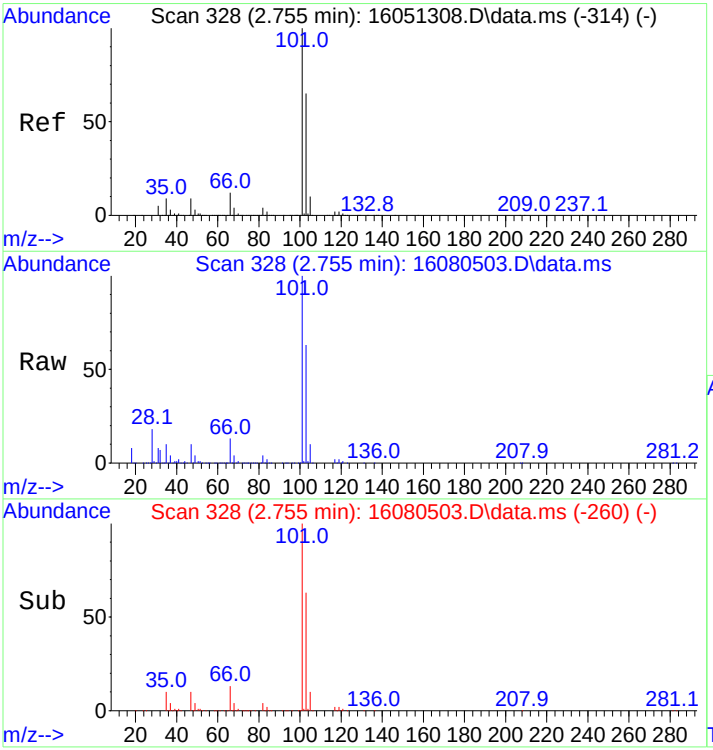


#6
Chloroethane
Concen: 236.12 ng
RT: 2.477 min Scan# 291
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 64 Resp: 101830

Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.0	37.4

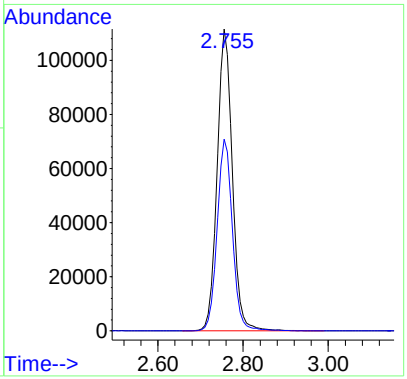


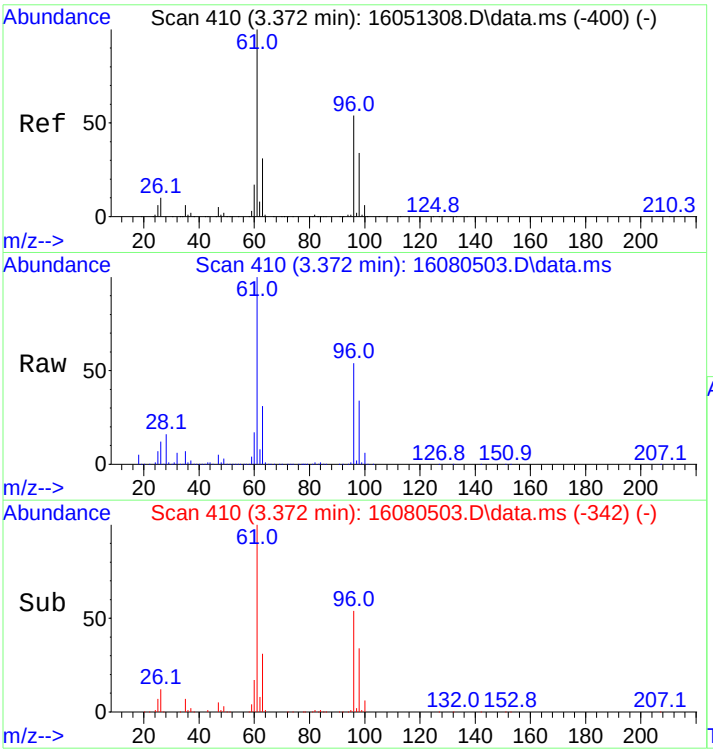


#7
Trichlorofluoromethane
Concen: 223.50 ng
RT: 2.755 min Scan# 328
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:101 Resp: 276137

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.8	77.6

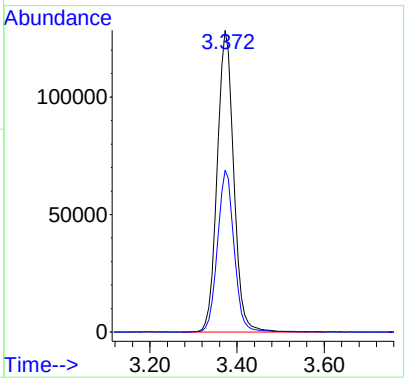


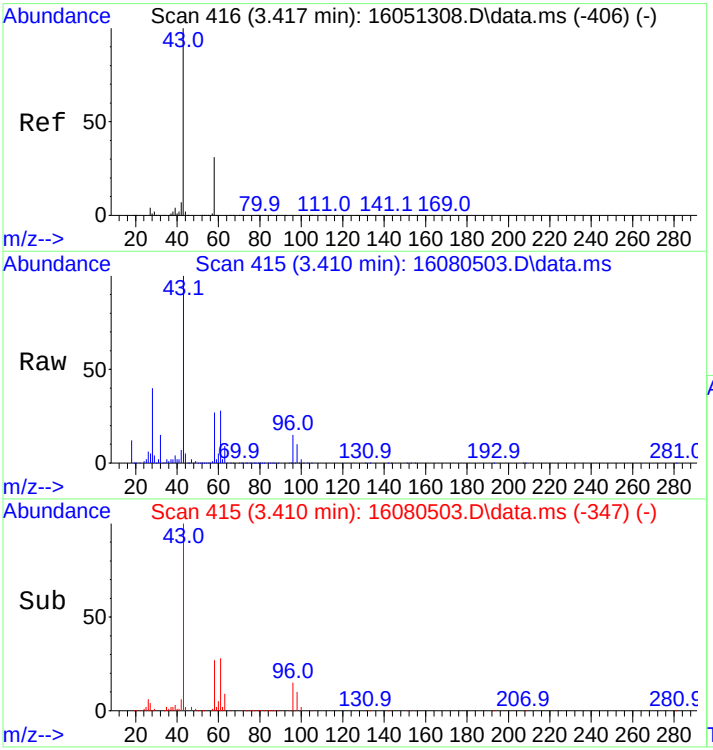


#8
1,1-Dichloroethene
Concen: 227.11 ng
RT: 3.372 min Scan# 410
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 61 Resp: 338196

Ion	Ratio	Lower	Upper
61	100		
96	53.8	44.1	66.1

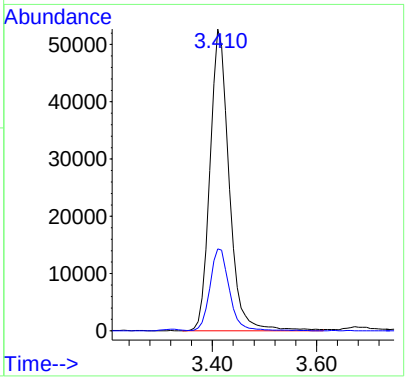


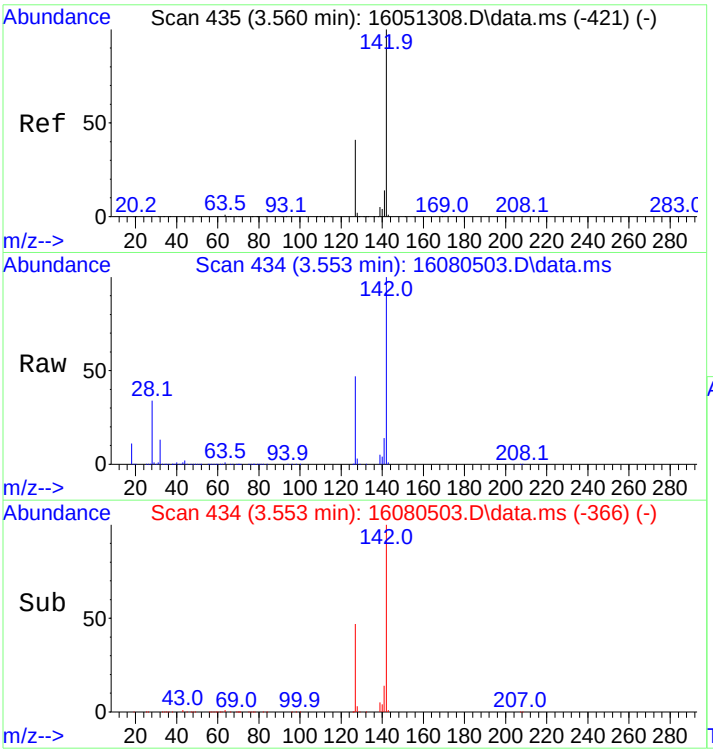


#9
Acetone
Concen: 242.94 ng
RT: 3.410 min Scan# 415
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 134641

Ion	Ratio	Lower	Upper
43	100		
58	27.7	24.7	37.1

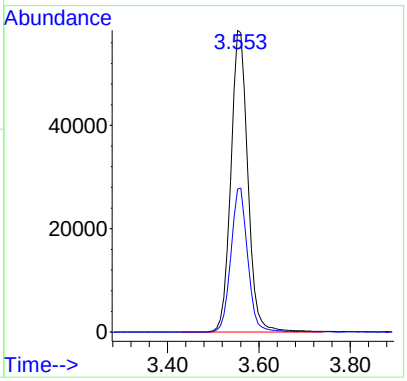


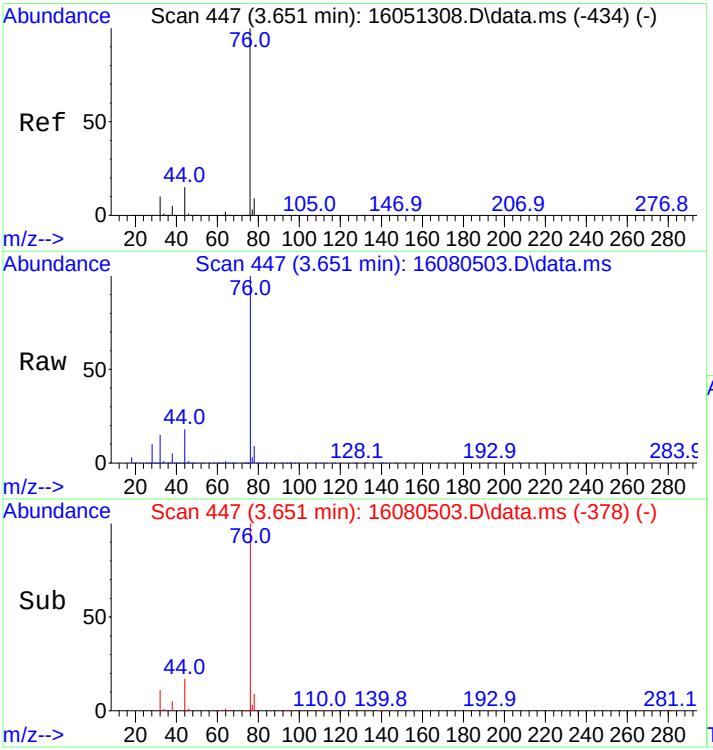


#10
Iodomethane
Concen: 254.35 ng
RT: 3.553 min Scan# 434
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:142 Resp: 150230

Ion	Ratio	Lower	Upper
142	100		
127	47.5	32.8	49.2

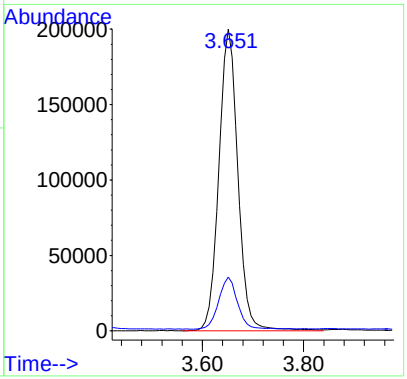


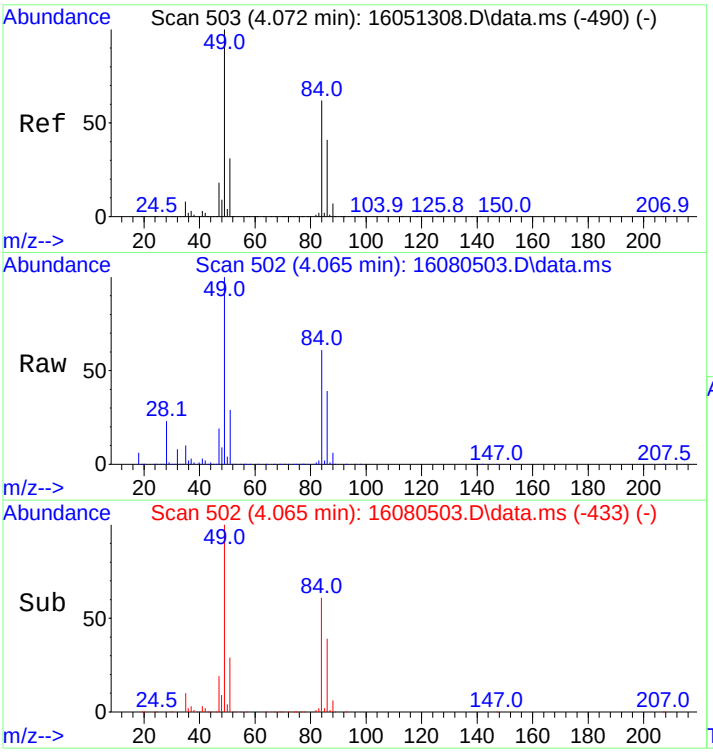


#11
Carbon disulfide
Concen: 224.69 ng
RT: 3.651 min Scan# 447
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 76 Resp: 523787

Ion	Ratio	Lower	Upper
76	100		
44	17.0	12.2	18.4

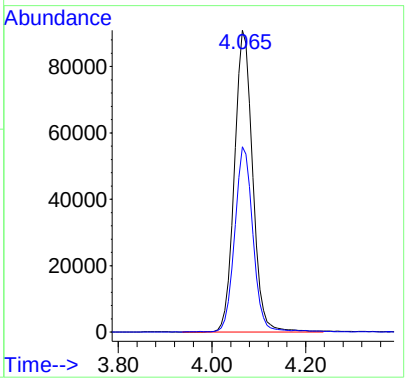


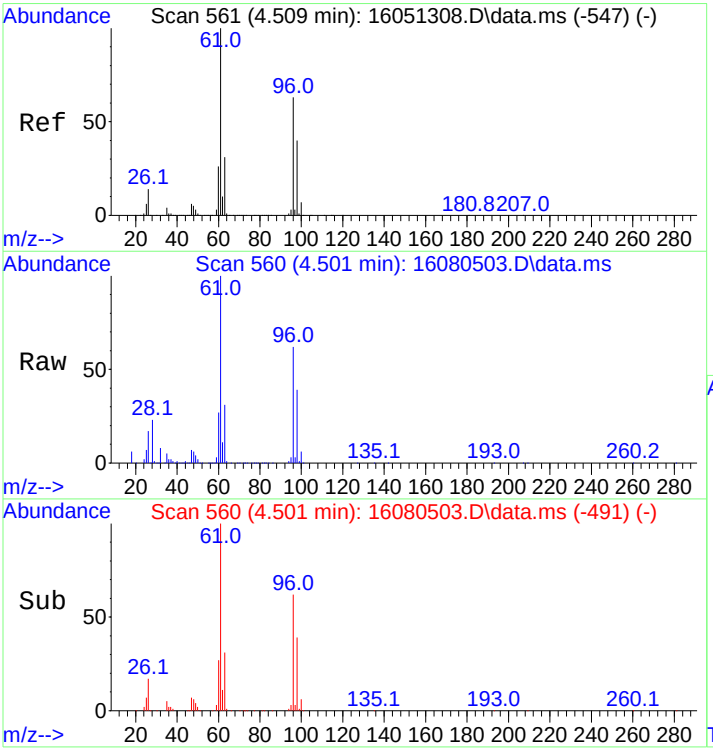


#12
Methylene Chloride
Concen: 238.42 ng
RT: 4.065 min Scan# 502
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 49 Resp: 245701

Ion	Ratio	Lower	Upper
49	100		
84	61.0	48.4	72.6

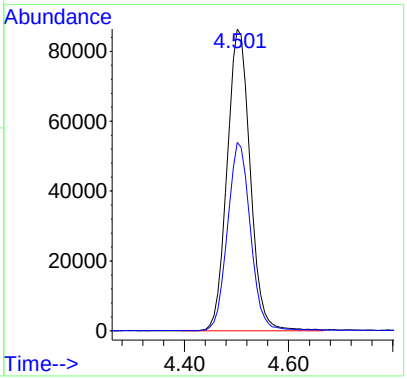


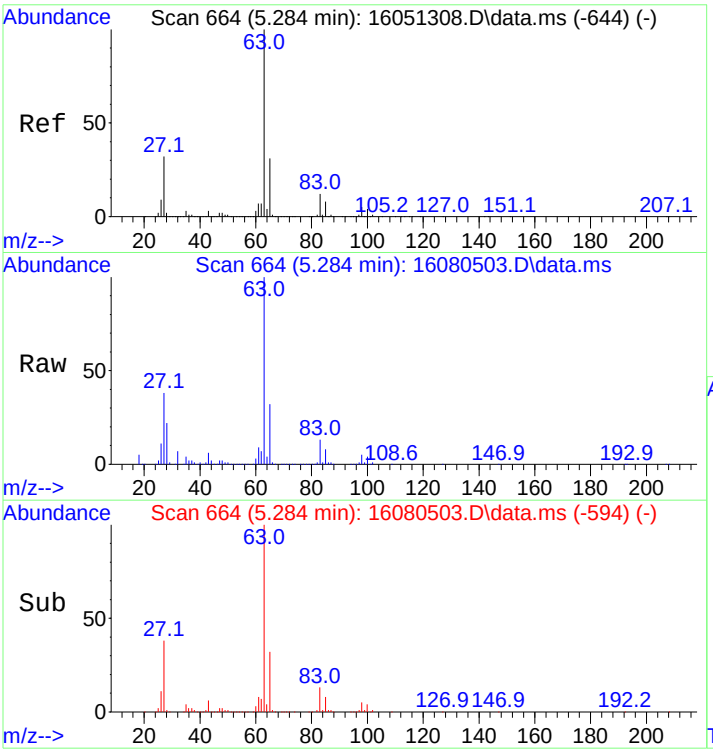


#13
trans,1,2-Dichloroethene
Concen: 269.37 ng
RT: 4.501 min Scan# 560
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 61 Resp: 266257

Ion	Ratio	Lower	Upper
61	100		
96	62.2	50.2	75.4

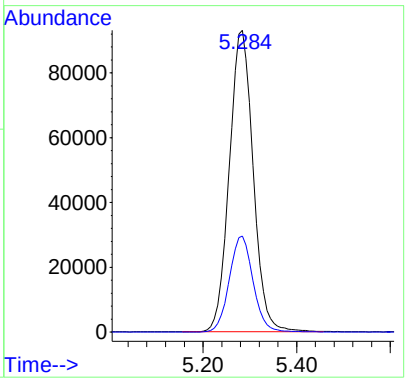


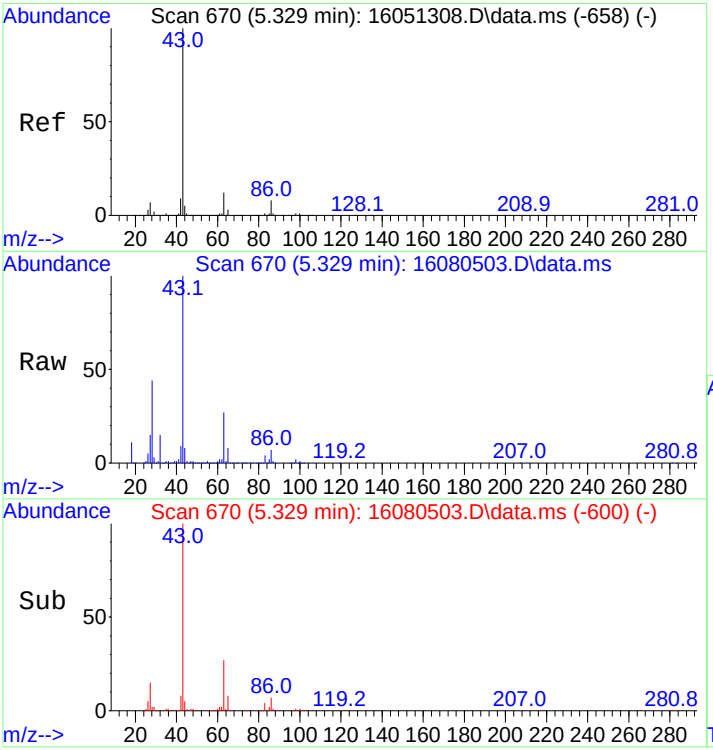


#14
1,1-Dichloroethane
Concen: 269.07 ng
RT: 5.284 min Scan# 664
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 63 Resp: 329869

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.6	37.0

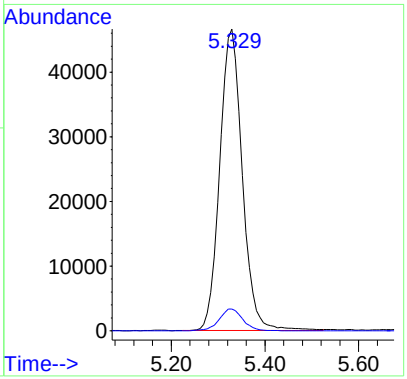


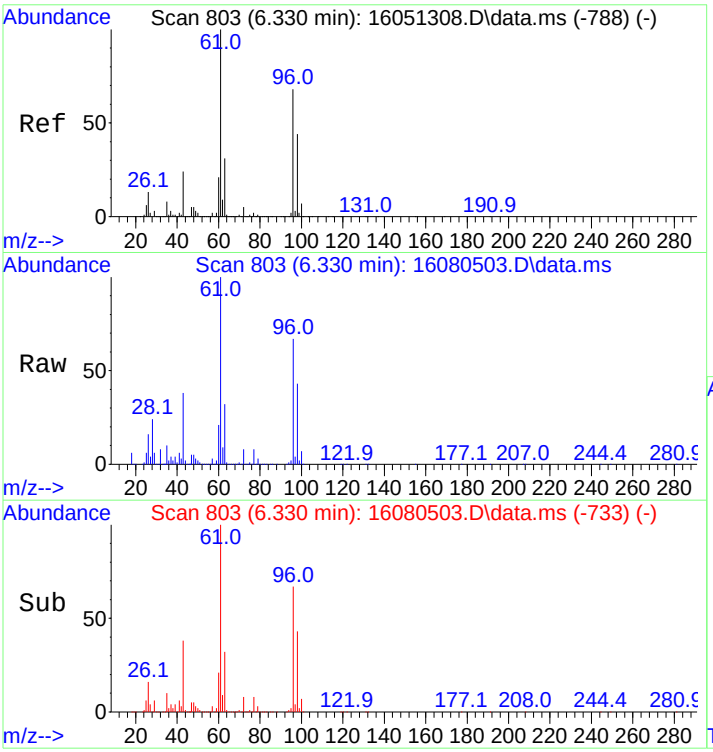


#15
Vinyl Acetate
Concen: 250.02 ng
RT: 5.329 min Scan# 670
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 156174

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.6	9.8

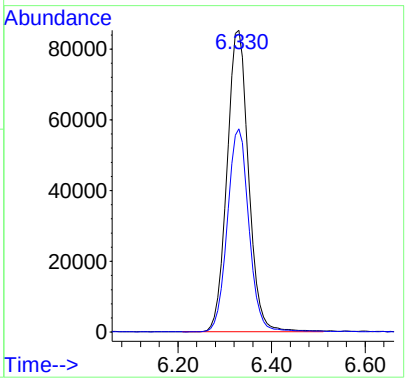


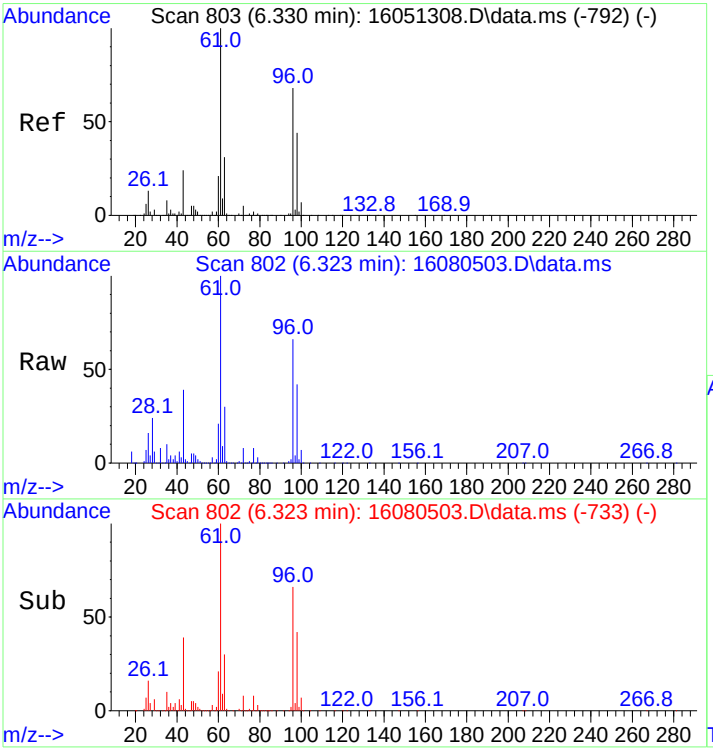


#16
cis,1,2-Dichloroethene
Concen: 237.99 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 61 Resp: 272647

Ion	Ratio	Lower	Upper
61	100		
96	67.2	54.6	81.8

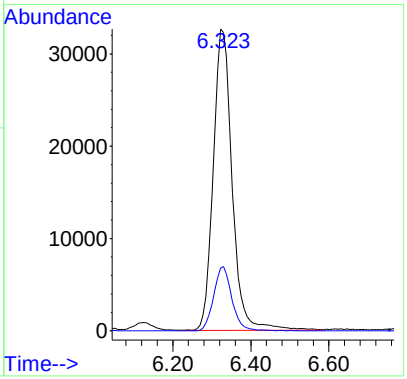


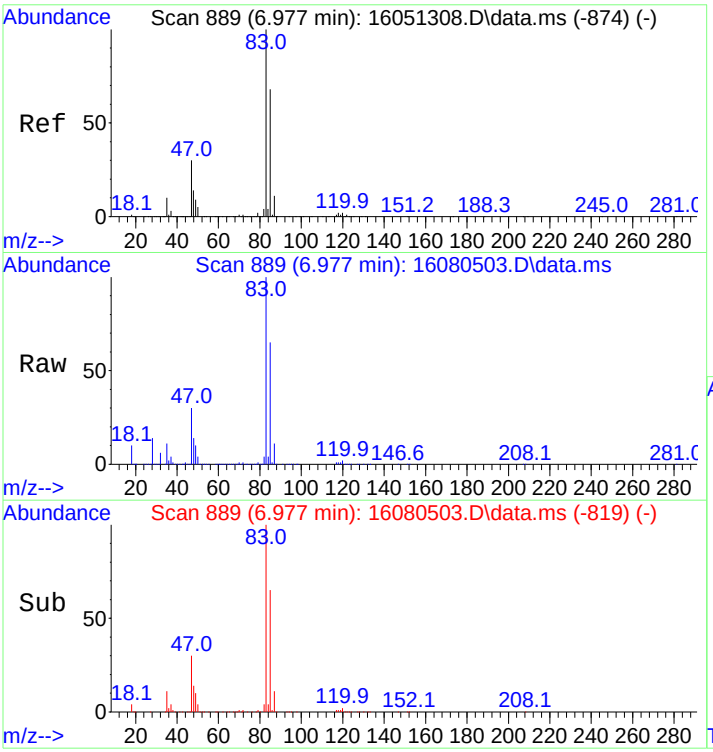


#17
2-Butanone
Concen: 276.80 ng
RT: 6.323 min Scan# 802
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 109684

Ion	Ratio	Lower	Upper
43	100		
72	20.5	17.4	26.2

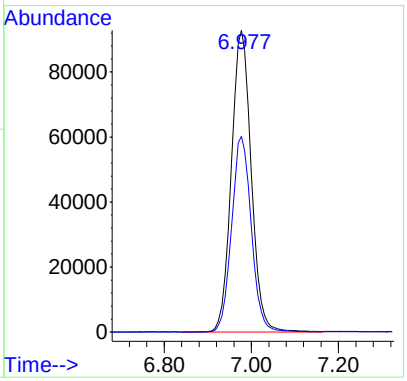


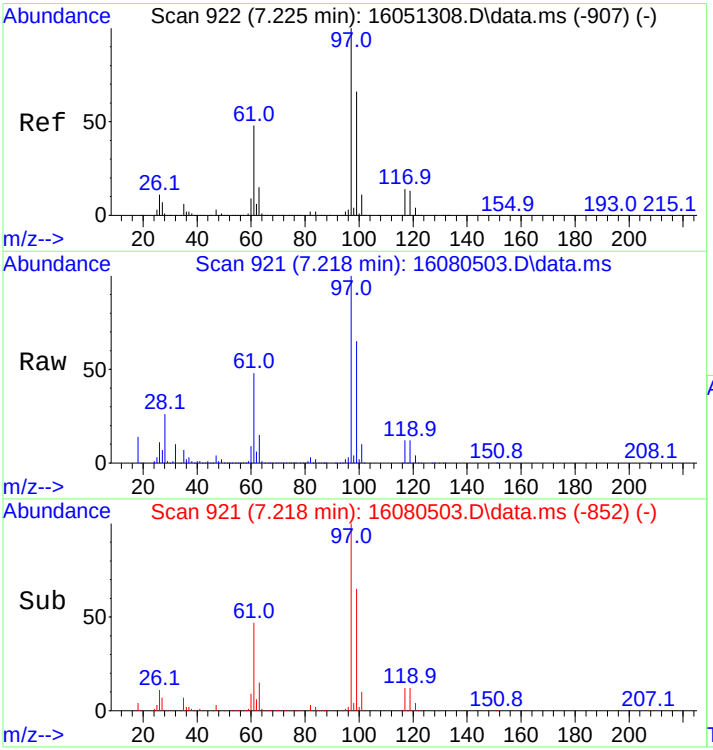


#18
Chloroform
Concen: 254.86 ng
RT: 6.977 min Scan# 889
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 293119

Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.9	80.9

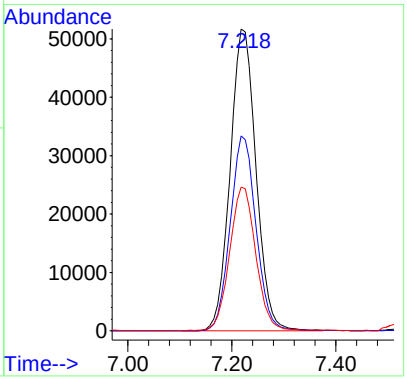


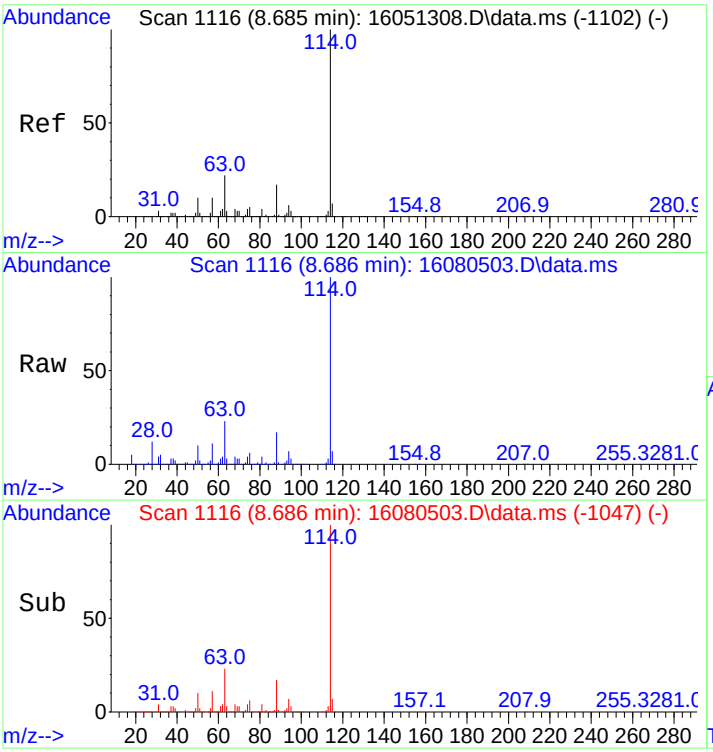


#19
1,1,1-Trichloroethane
Concen: 271.33 ng
RT: 7.218 min Scan# 921
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 97 Resp: 178441

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	47.9	37.6	56.4

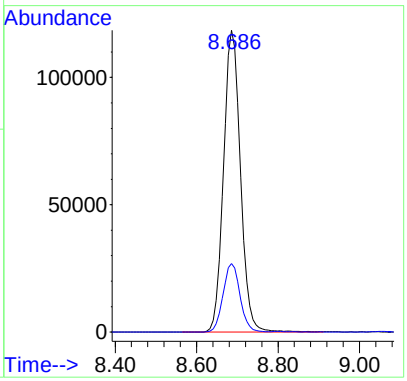


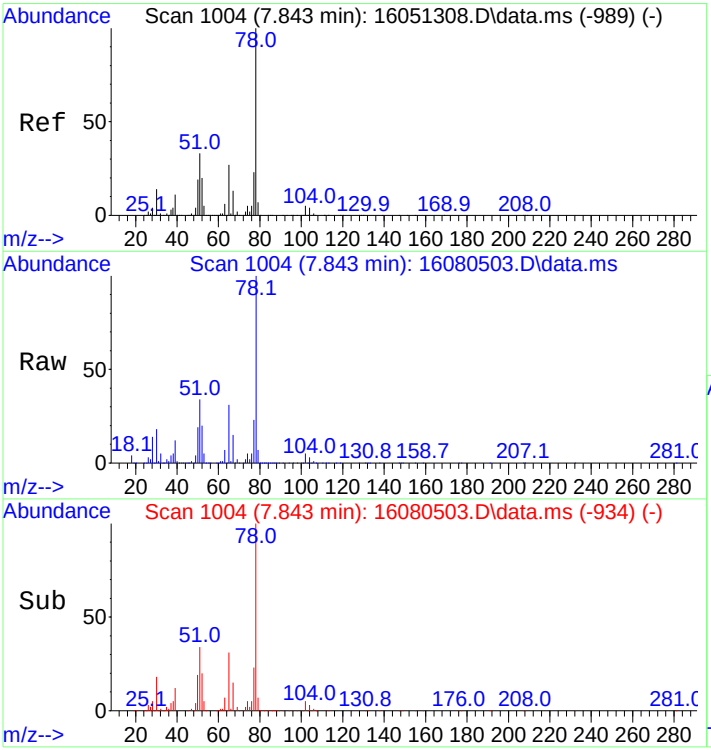


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.686 min Scan# 1116
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:114 Resp: 341455

Ion	Ratio	Lower	Upper
114	100		
63	22.7	17.8	26.8

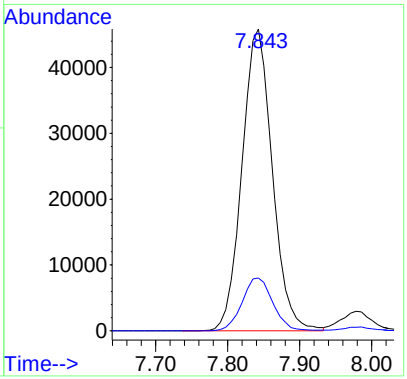


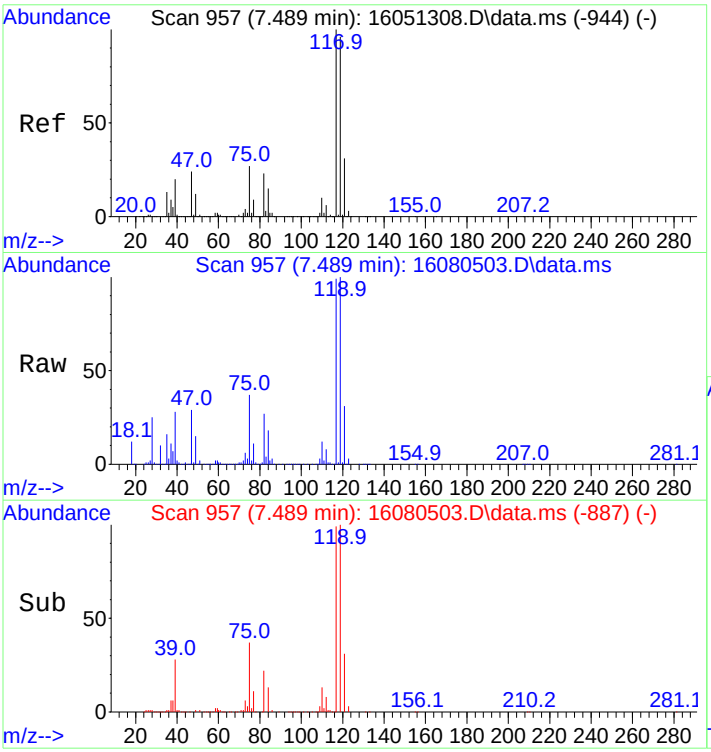


#21
d4-1,2-Dichloroethane(SURR)
Concen: 288.74 ng
RT: 7.843 min Scan# 1004
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 65 Resp: 133547

Ion	Ratio	Lower	Upper
65	100		
102	17.8	16.5	24.7

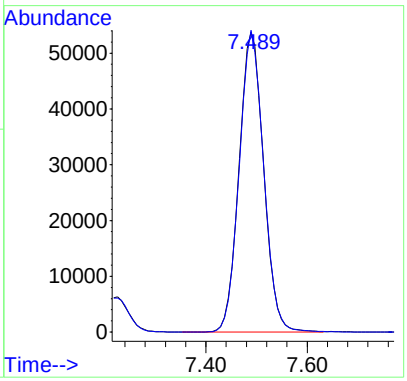


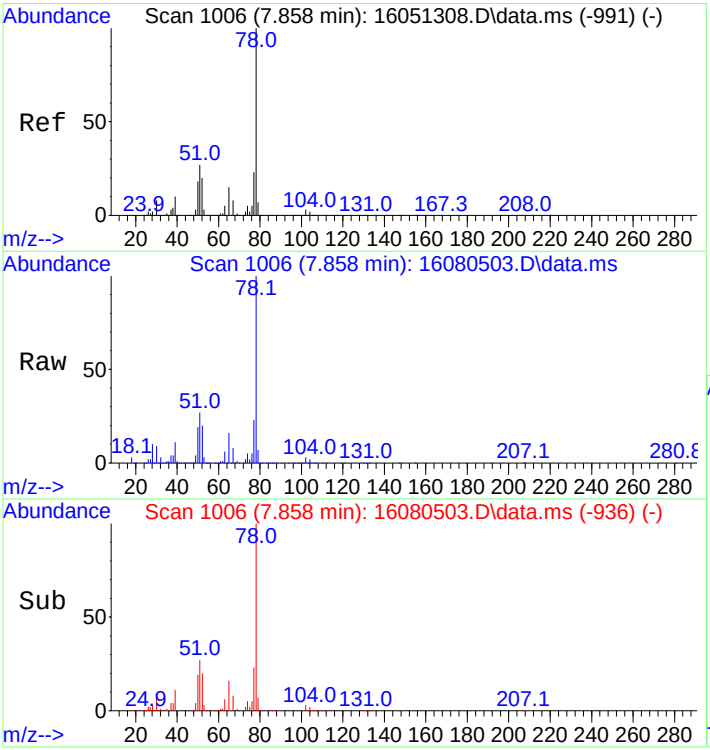


#22
Carbon Tetrachloride
Concen: 277.37 ng
RT: 7.489 min Scan# 957
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:117 Resp: 180938

Ion	Ratio	Lower	Upper
117	100		
119	99.3	77.0	115.4

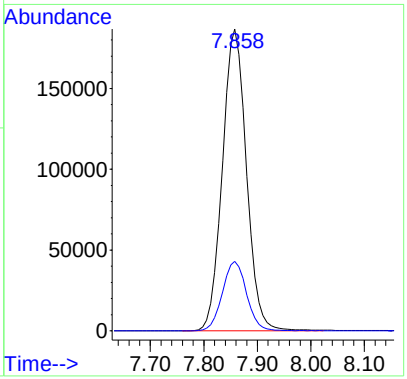


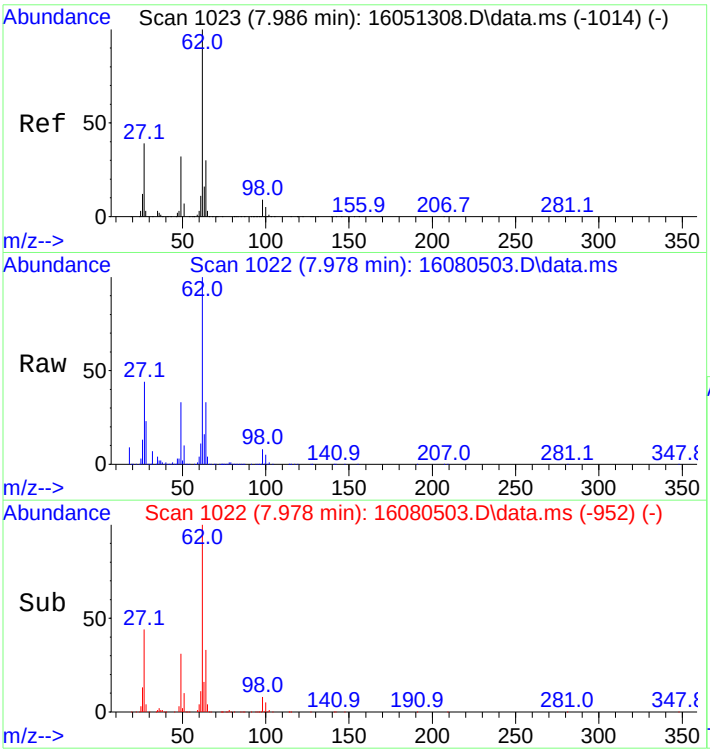


#23
Benzene
Concen: 235.74 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 78 Resp: 582748

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.3	27.5

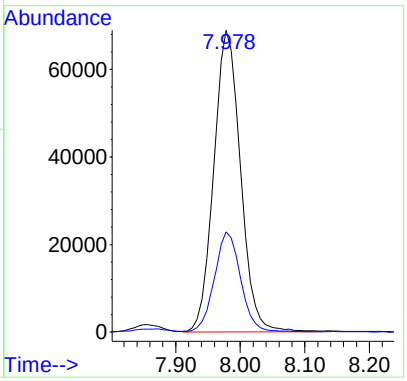


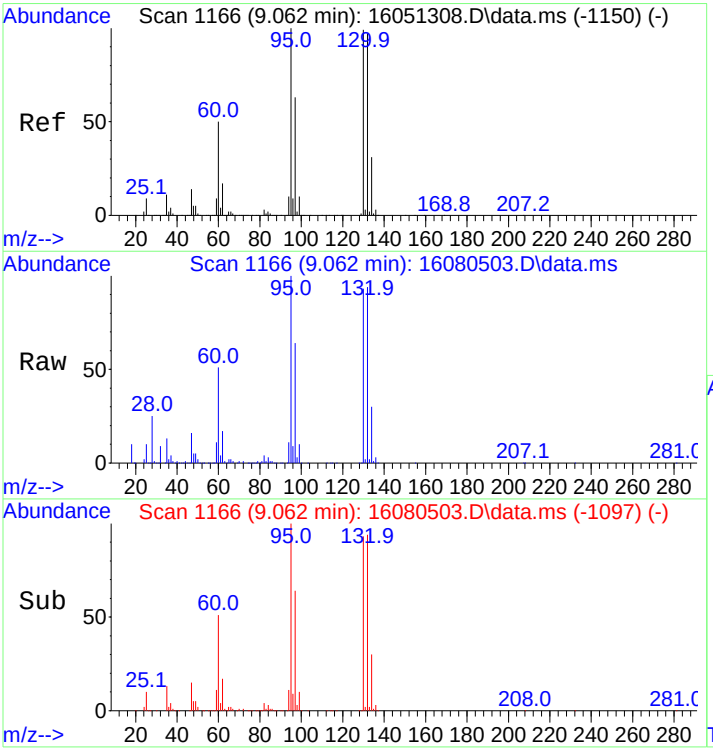


#24
1,2-Dichloroethane
Concen: 280.05 ng
RT: 7.978 min Scan# 1022
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 62 Resp: 198175

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.8	37.2

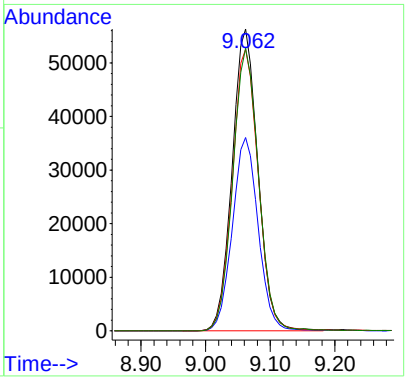


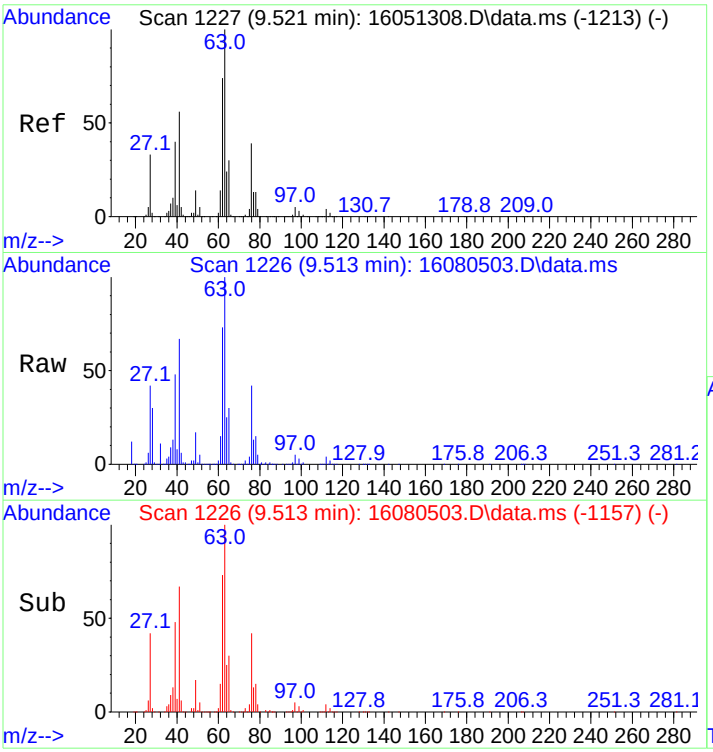


#25
Trichloroethene
Concen: 281.65 ng
RT: 9.062 min Scan# 1166
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 95 Resp: 156089

Ion	Ratio	Lower	Upper
95	100		
97	64.3	51.8	77.8
130	94.1	81.9	122.9
132	93.5	81.2	121.8

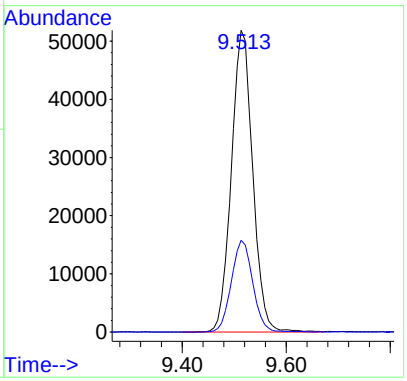


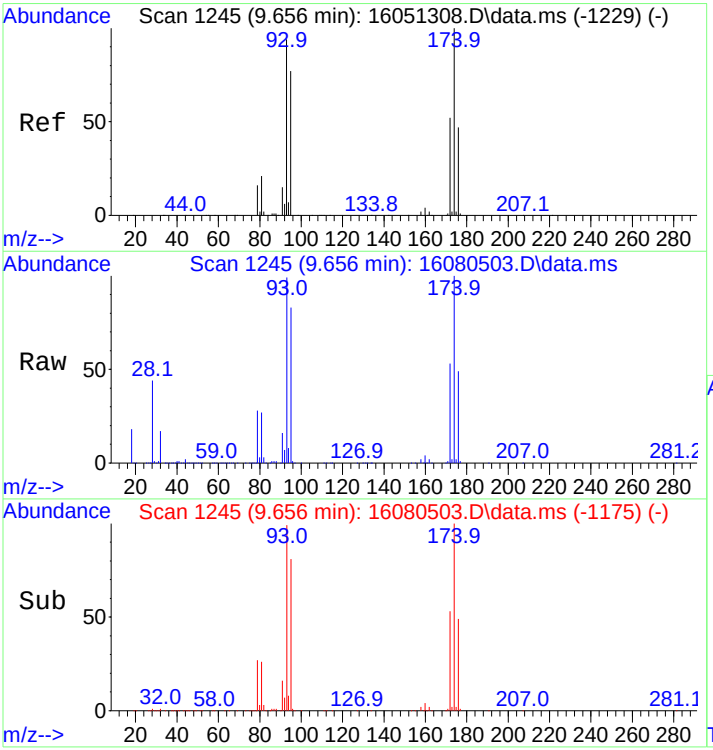


#26
1,2-Dichloropropane
Concen: 260.76 ng
RT: 9.513 min Scan# 1226
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 63 Resp: 147748

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.2	36.2

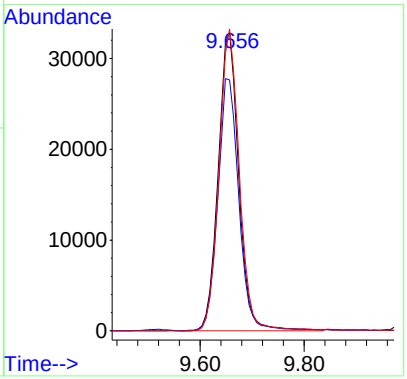


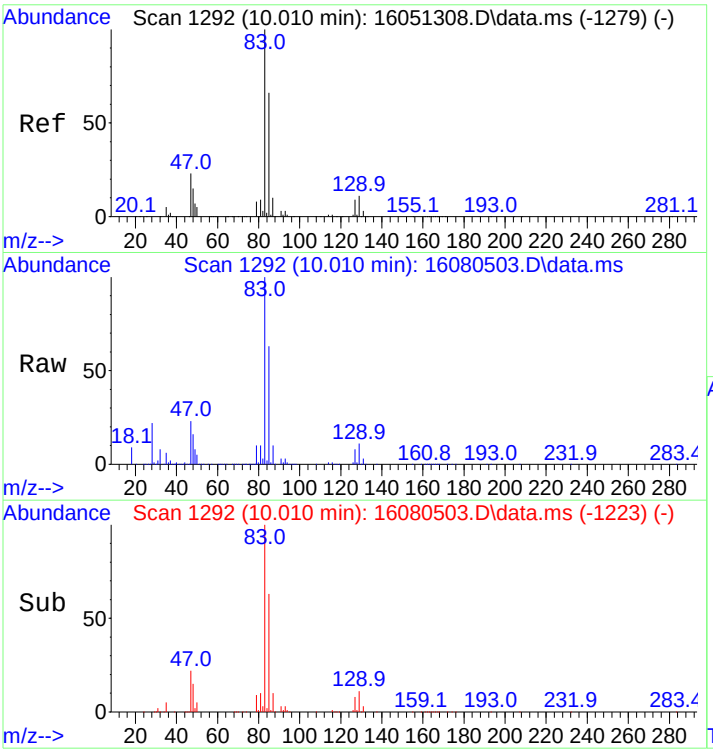


#27
Dibromomethane
Concen: 284.79 ng
RT: 9.656 min Scan# 1245
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 93 Resp: 90384

Ion	Ratio	Lower	Upper
93	100		
95	85.9	65.5	98.3
174	99.8	85.5	128.3

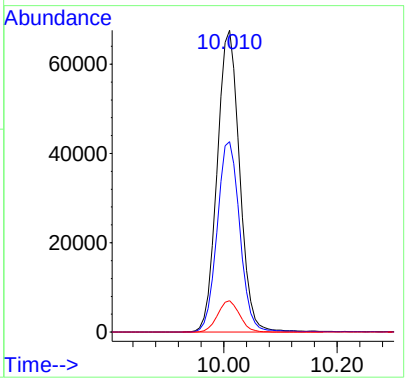


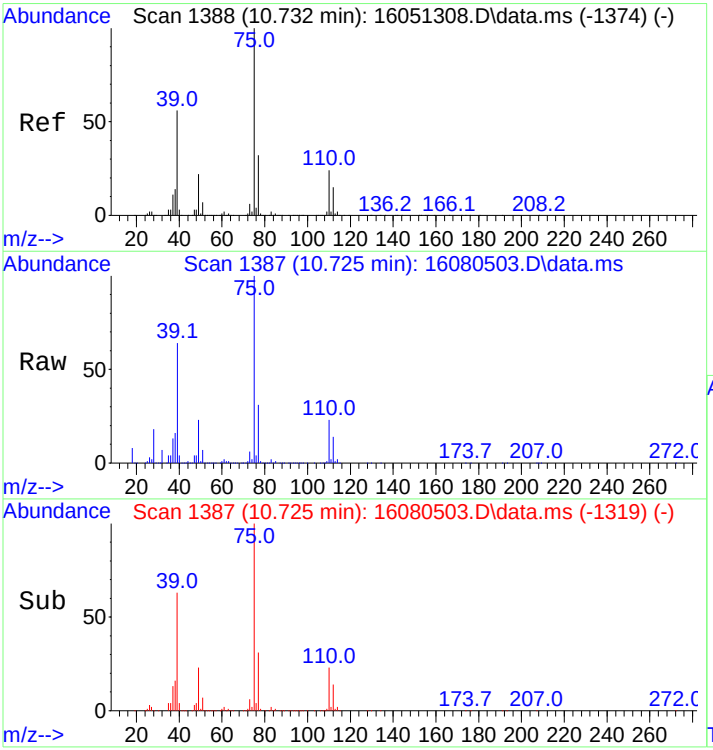


#28
Bromodichloromethane
Concen: 301.23 ng
RT: 10.010 min Scan# 1292
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 185849

Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.5	78.7
87	10.2	8.3	12.5

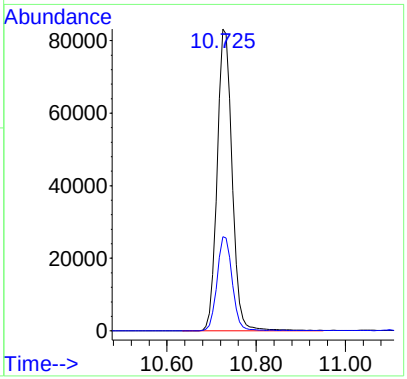


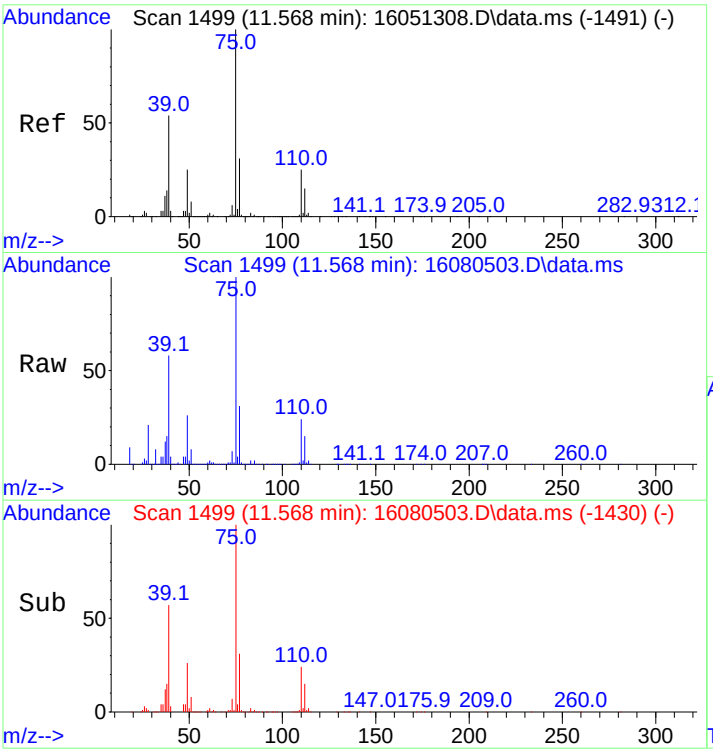


#29
cis,1,3-Dichloropropene
Concen: 305.90 ng
RT: 10.725 min Scan# 1387
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 193347

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4

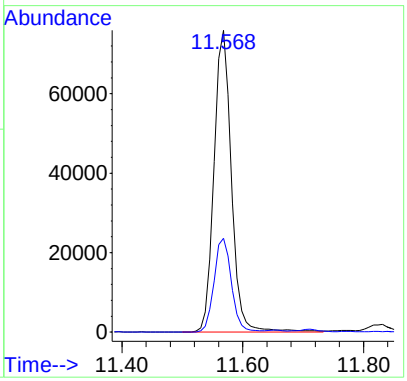


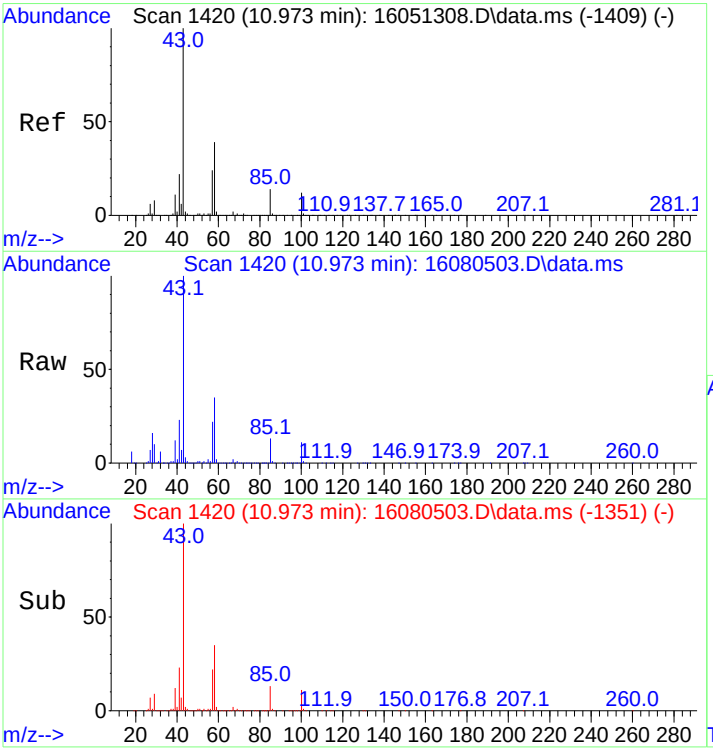


#30
trans,1,3-Dichloropropene
Concen: 352.52 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 151549

Ion	Ratio	Lower	Upper
75	100		
77	30.9	26.0	39.0

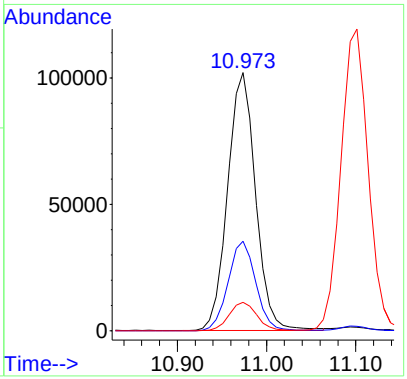


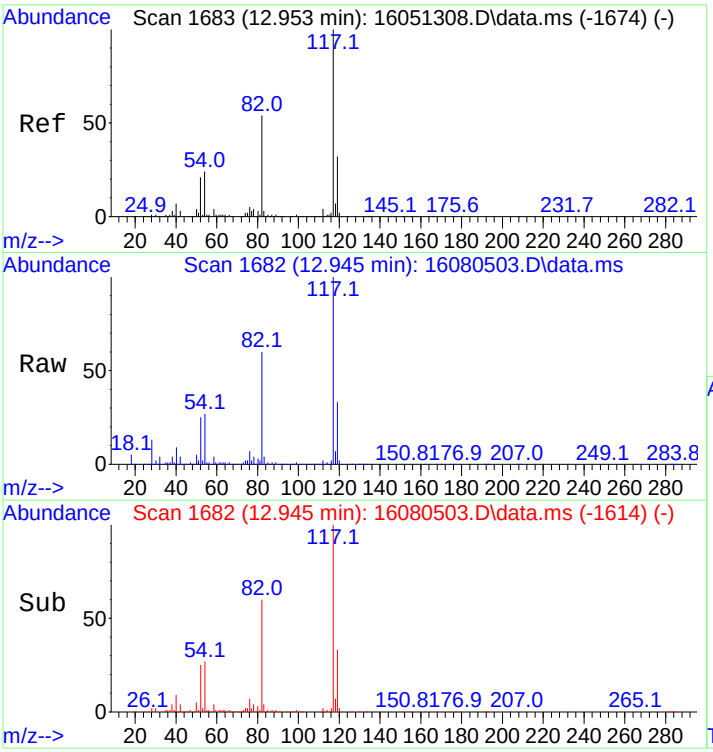


#31
4-Methyl-2-Pentanone
Concen: 267.68 ng
RT: 10.973 min Scan# 1420
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 223352

Ion	Ratio	Lower	Upper
43	100		
58	34.5	31.3	46.9
100	11.1	10.2	15.2

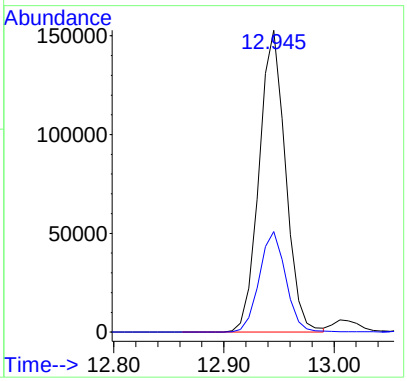


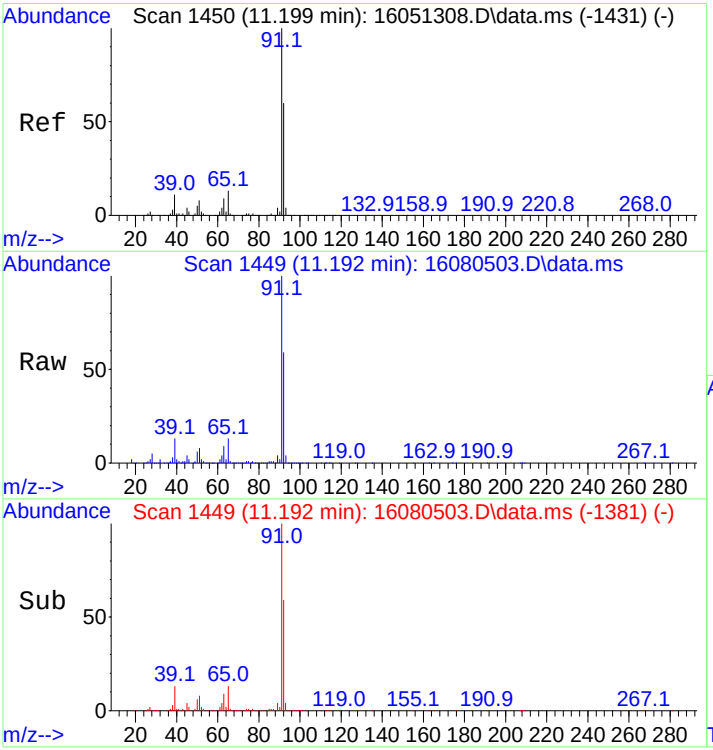


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.945 min Scan# 1682
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:117 Resp: 253235

Ion	Ratio	Lower	Upper
117	100		
119	33.5	25.8	38.8

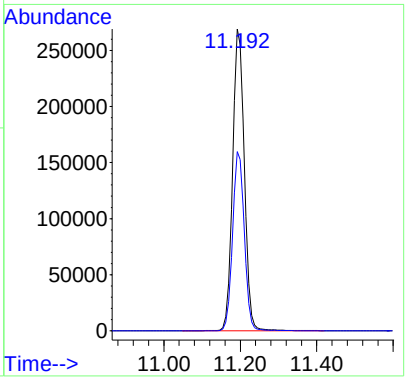


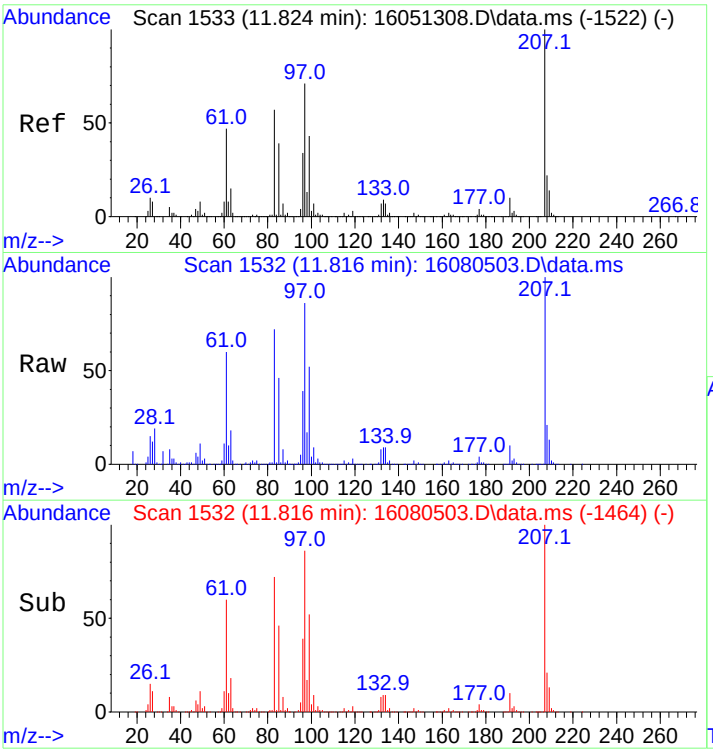


#33
Toluene
Concen: 227.49 ng
RT: 11.192 min Scan# 1449
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 571407

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.6	73.0

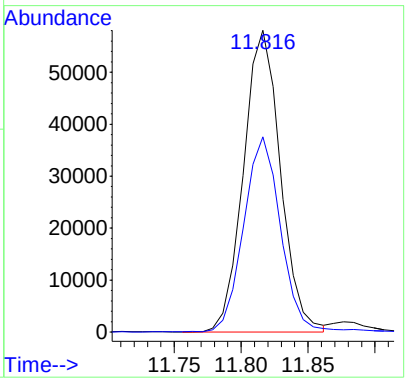


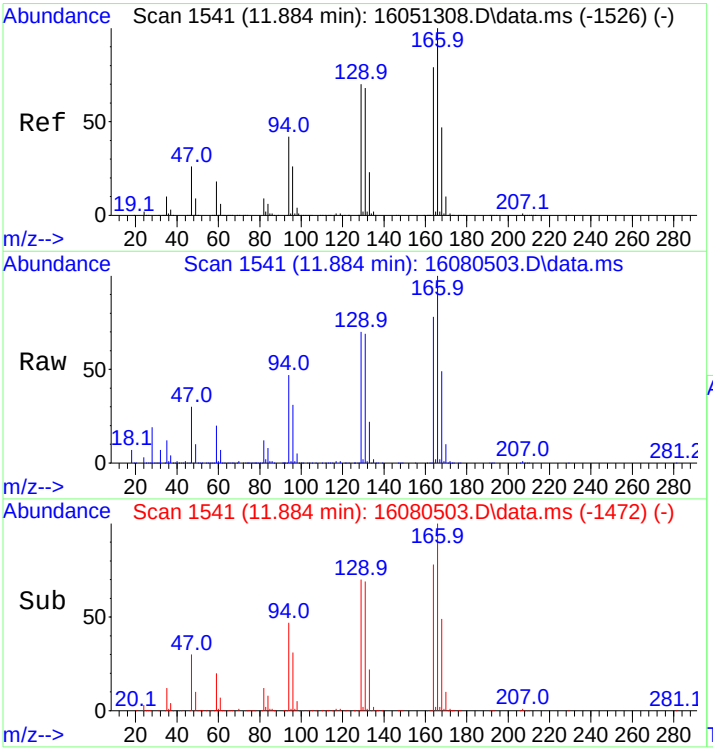


#34
1,1,2-Trichloroethane
Concen: 257.65 ng
RT: 11.816 min Scan# 1532
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 111844

Ion	Ratio	Lower	Upper
83	100		
85	65.2	54.7	82.1

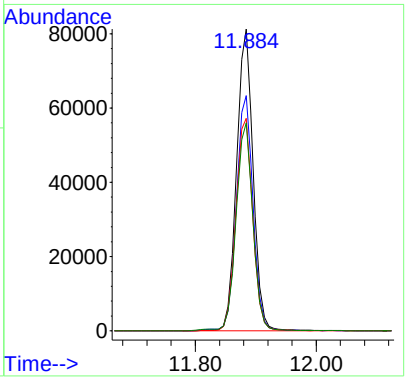


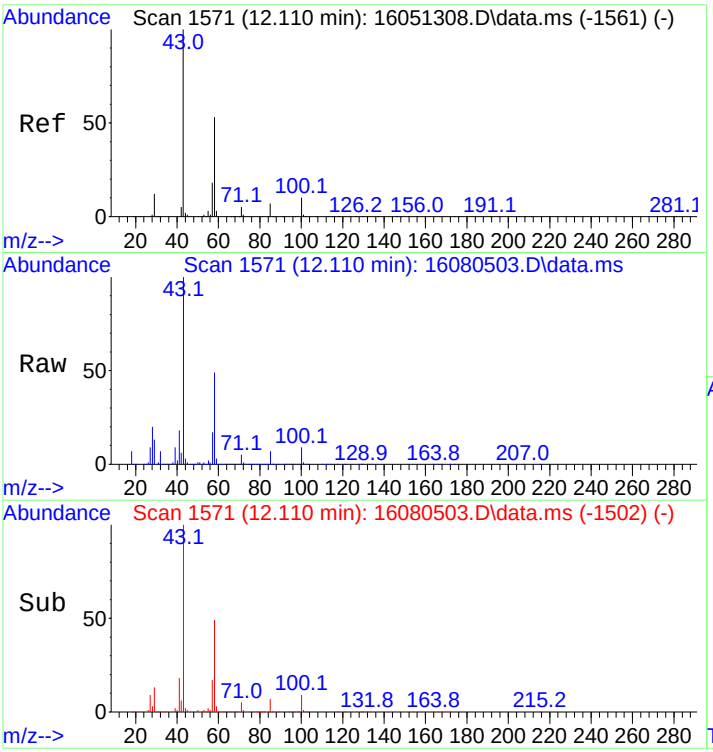


#35
Tetrachloroethene
Concen: 233.89 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:166 Resp: 153860

Ion	Ratio	Lower	Upper
166	100		
164	79.2	63.2	94.8
129	72.2	55.5	83.3
131	70.2	55.2	82.8

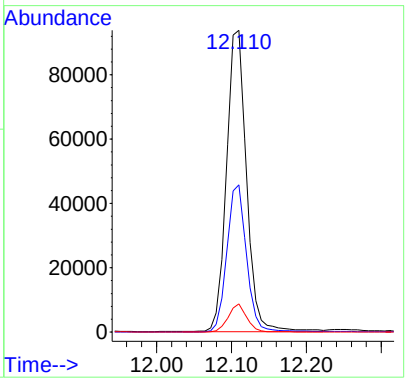


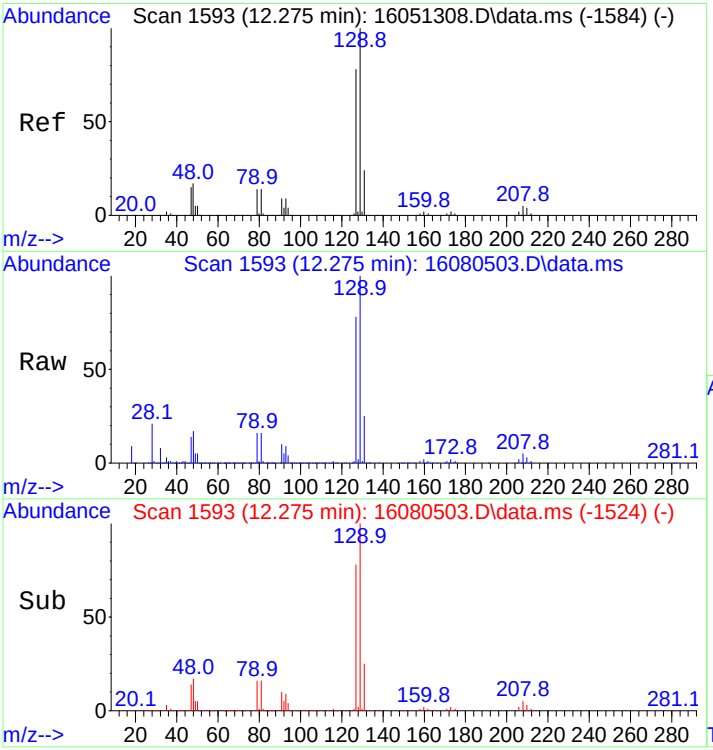


#36
2-Hexanone
Concen: 269.83 ng
RT: 12.110 min Scan# 1571
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 43 Resp: 173872

Ion	Ratio	Lower	Upper
43	100		
58	48.2	43.6	65.4
100	8.7	7.8	11.8

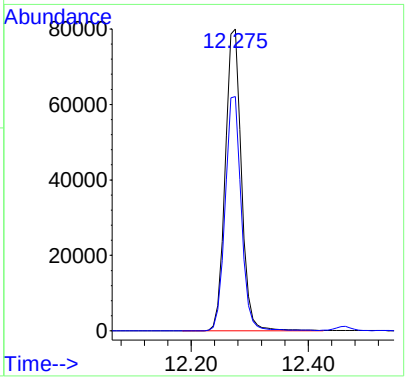


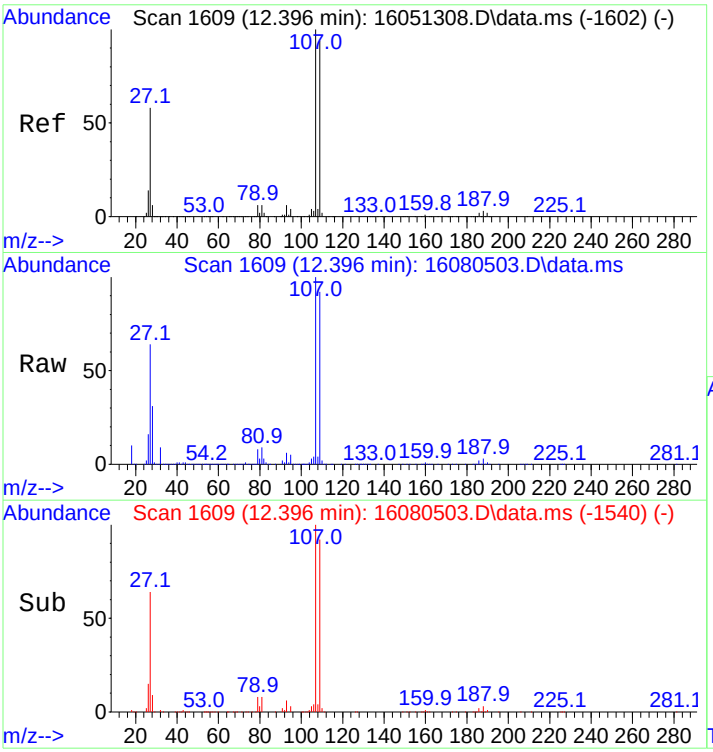


#37
Chlorodibromomethane
Concen: 260.01 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:129 Resp: 153085

Ion	Ratio	Lower	Upper
129	100		
127	77.3	62.3	93.5

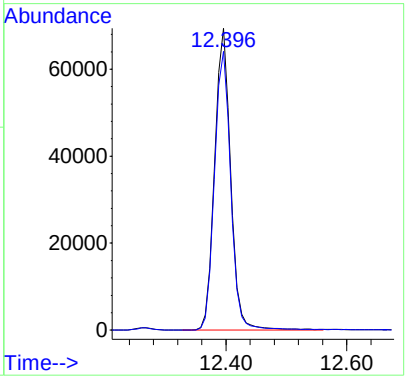


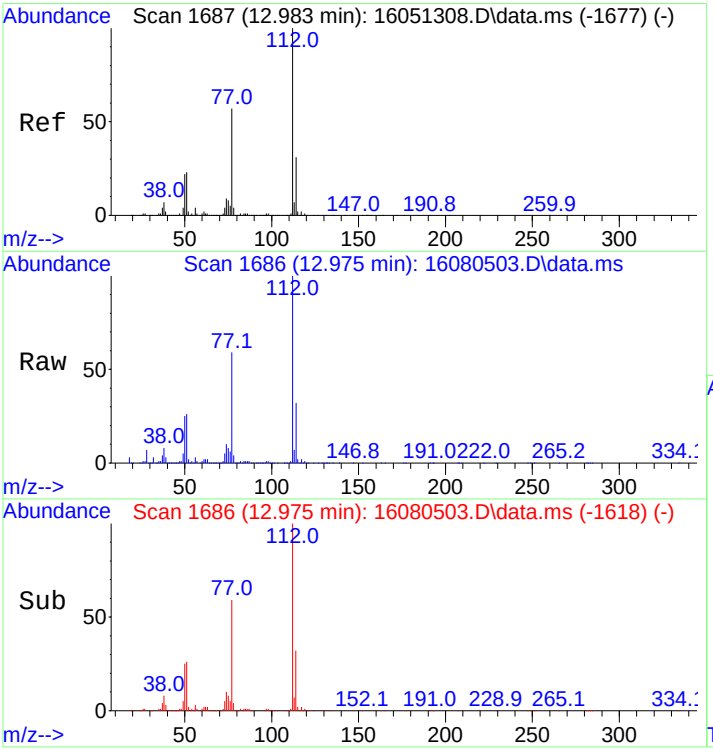


#38
Ethylene Dibromide
Concen: 237.42 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:107 Resp: 127595

Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.3	111.5

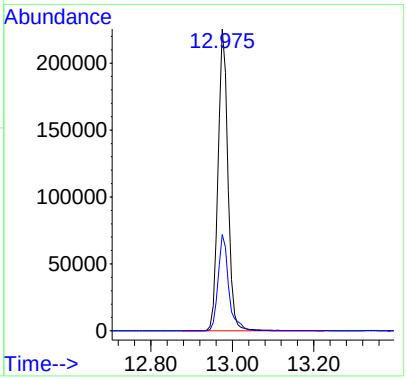


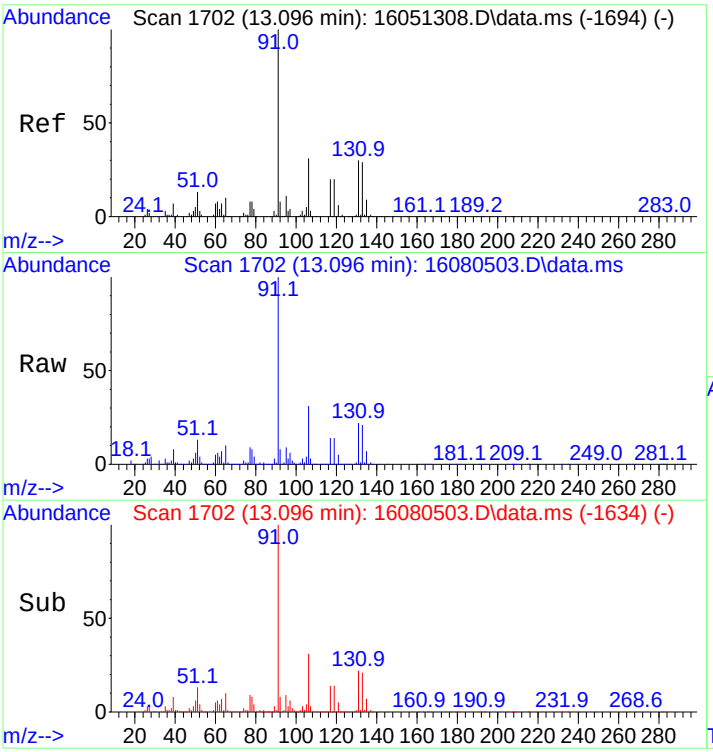


#39
Chlorobenzene
Concen: 247.62 ng
RT: 12.975 min Scan# 1686
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:112 Resp: 382182

Ion	Ratio	Lower	Upper
112	100		
114	34.3	27.5	41.3

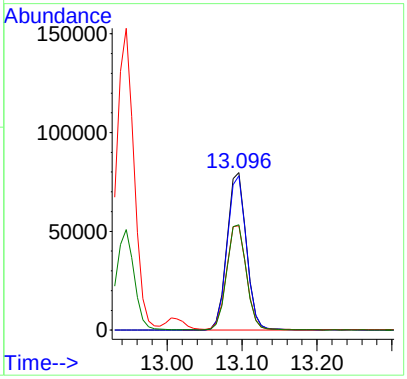


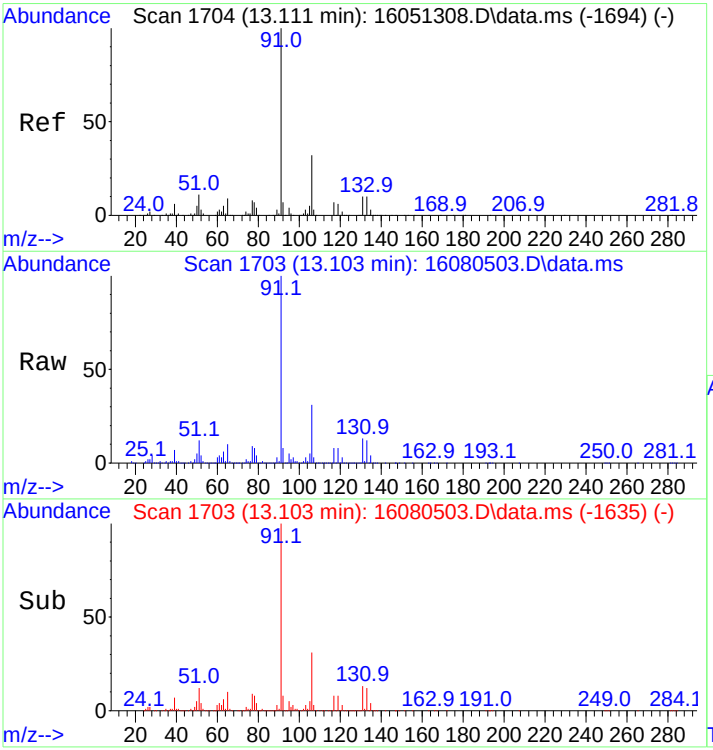


#40
1,1,1,2-Tetrachloroethane
Concen: 262.43 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:131 Resp: 143754

Ion	Ratio	Lower	Upper
131	100		
133	97.3	77.8	116.6
117	68.1	57.1	85.7
119	67.3	54.3	81.5

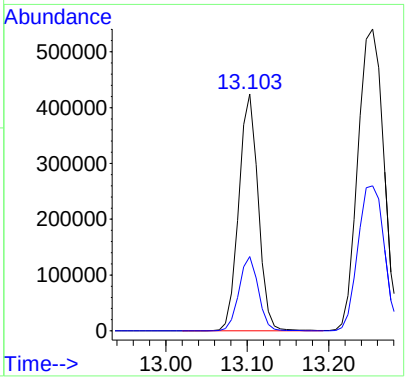


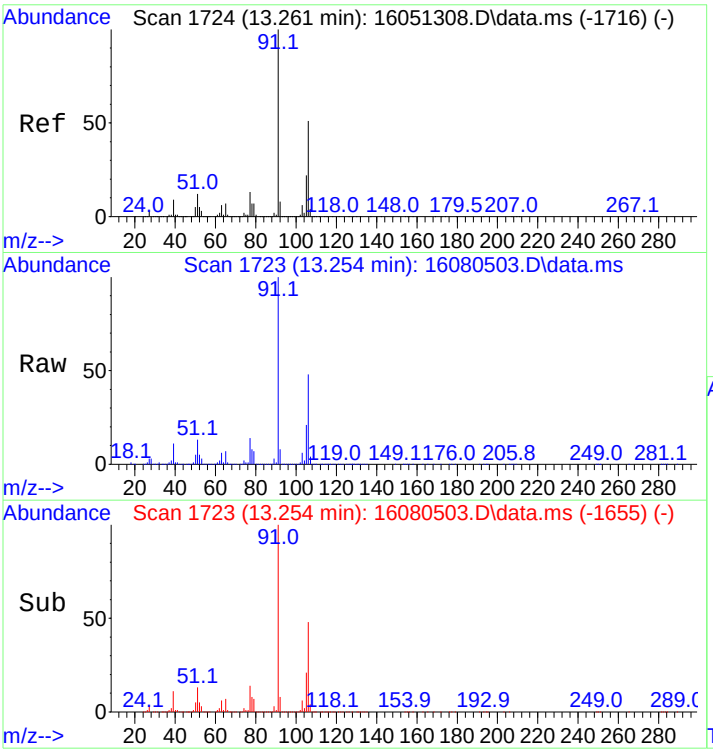


#41
Ethylbenzene
Concen: 245.41 ng
RT: 13.103 min Scan# 1703
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 700261

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.5	38.3

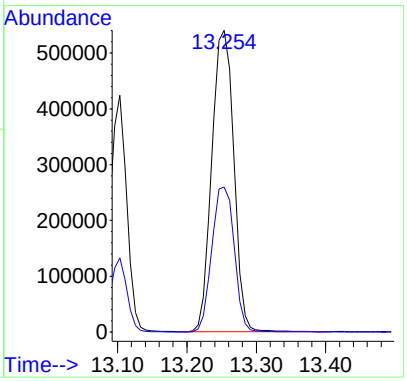


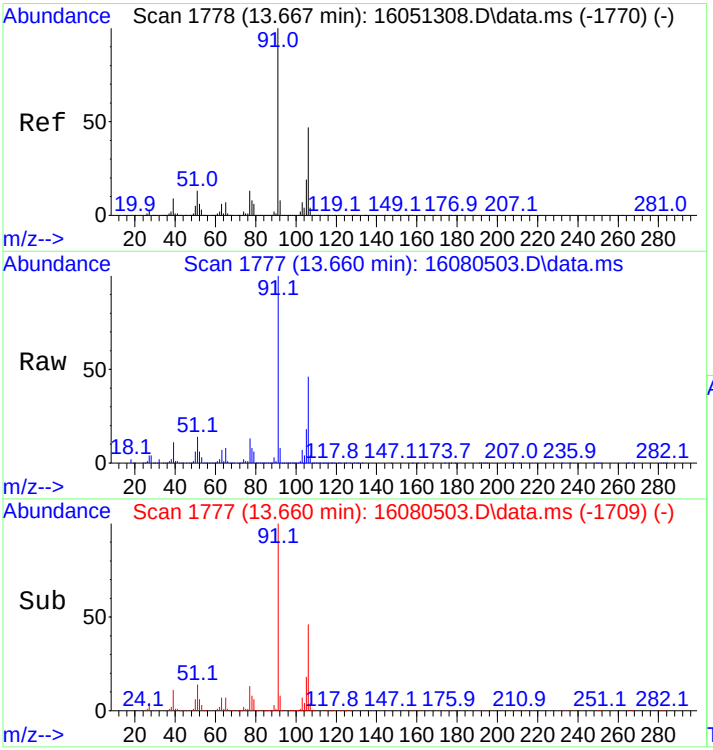


#42
M&P-Xylene
Concen: 489.84 ng
RT: 13.254 min Scan# 1723
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 1188646

Ion	Ratio	Lower	Upper
91	100		
106	49.3	40.4	60.6

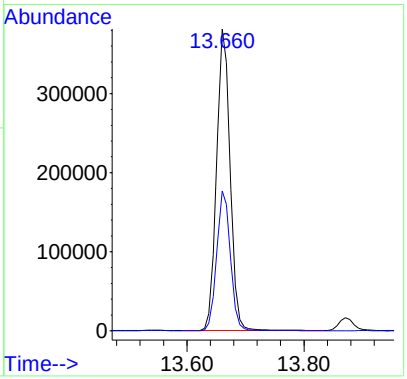


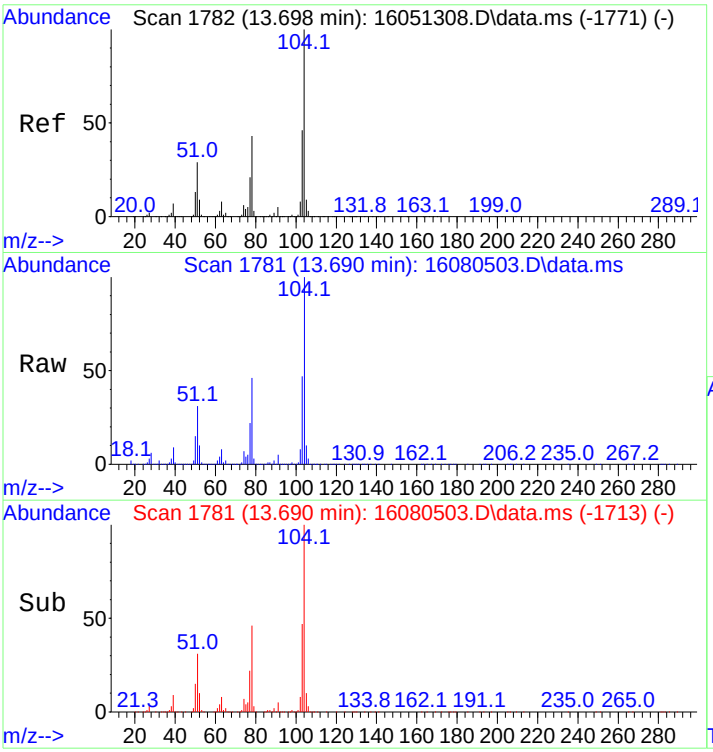


#43
O-Xylene
Concen: 243.90 ng
RT: 13.660 min Scan# 1777
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 613520

Ion	Ratio	Lower	Upper
91	100		
106	46.9	38.2	57.2

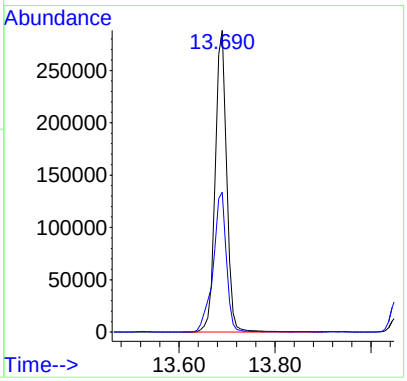


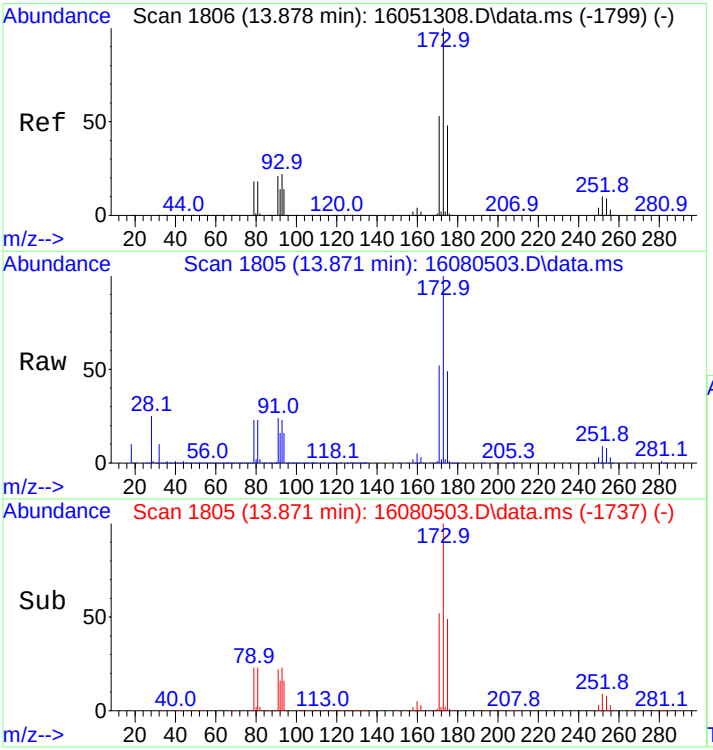


#44
Styrene
Concen: 221.69 ng
RT: 13.690 min Scan# 1781
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:104 Resp: 476019

Ion	Ratio	Lower	Upper
104	100		
78	53.9	39.8	59.6

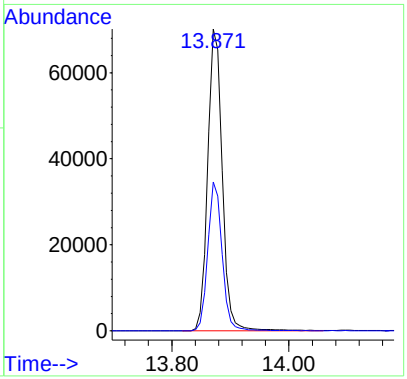


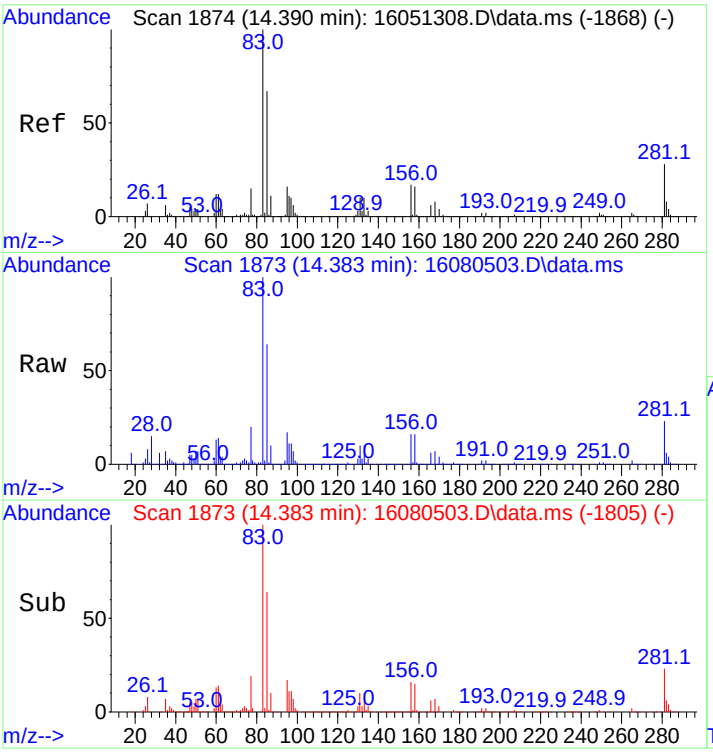


#45
Bromoform
Concen: 260.80 ng
RT: 13.871 min Scan# 1805
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:173 Resp: 121016

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.5	57.7

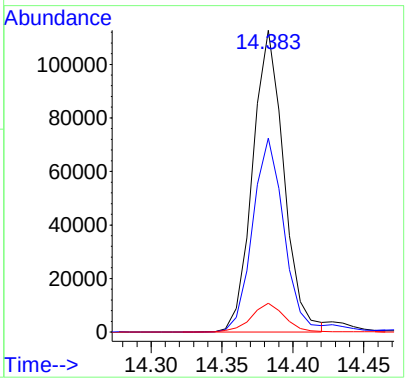


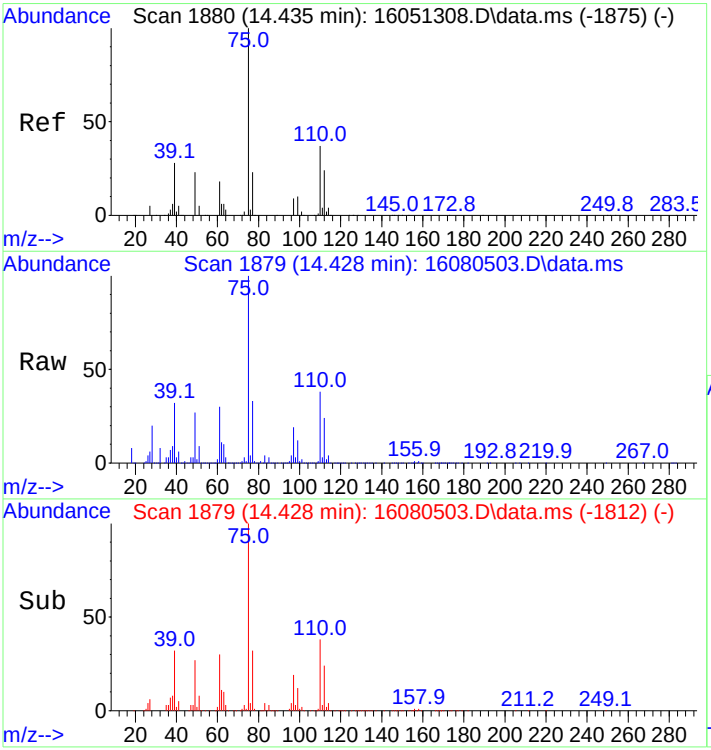


#46
1,1,2,2-Tetrachloroethane
Concen: 235.16 ng m
RT: 14.383 min Scan# 1873
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 83 Resp: 172448

Ion	Ratio	Lower	Upper
83	100		
85	64.5	53.1	79.7
131	10.4	8.9	13.3

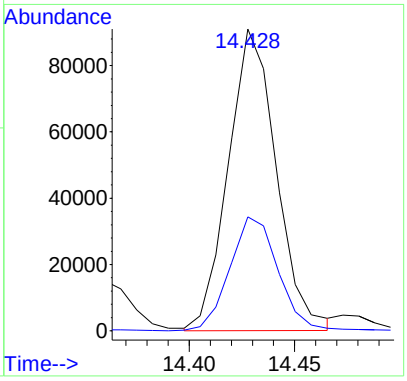


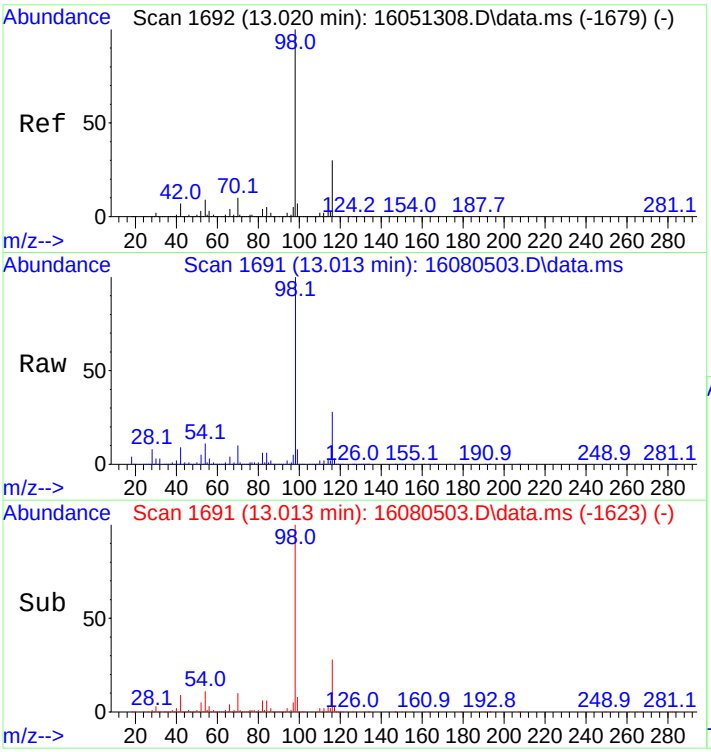


#47
1,2,3-Trichloropropane
Concen: 238.04 ng m
RT: 14.428 min Scan# 1879
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 144198

Ion	Ratio	Lower	Upper
75	100		
110	38.3	30.5	45.7

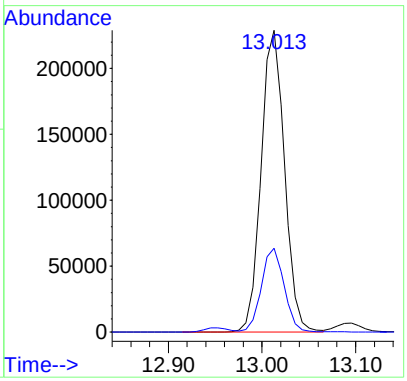


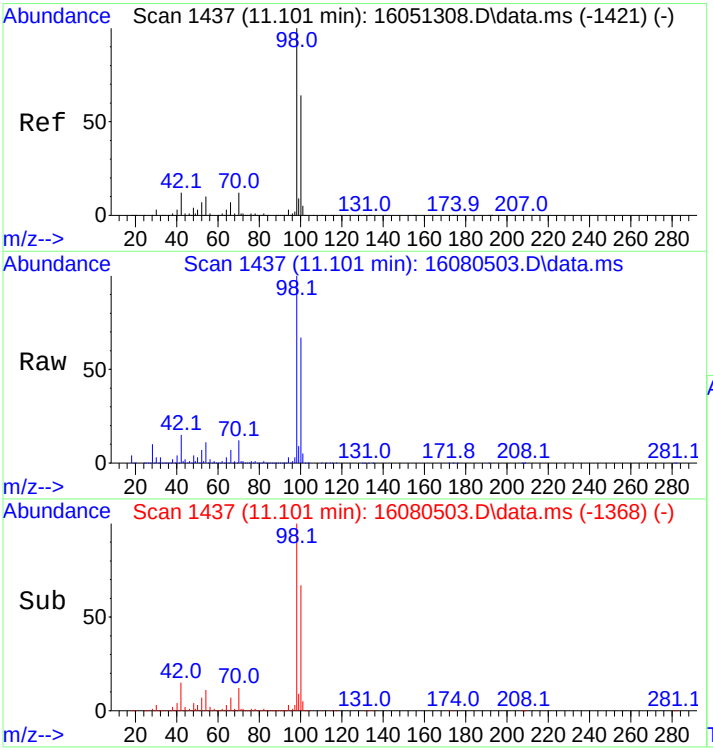


#48
d10-Ethylbenzene(SPK)
Concen: 228.45 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 98 Resp: 397643

Ion	Ratio	Lower	Upper
98	100		
116	27.1	23.4	35.0

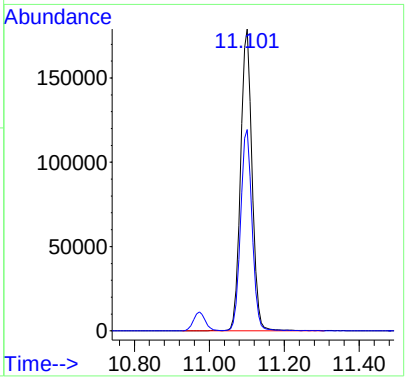


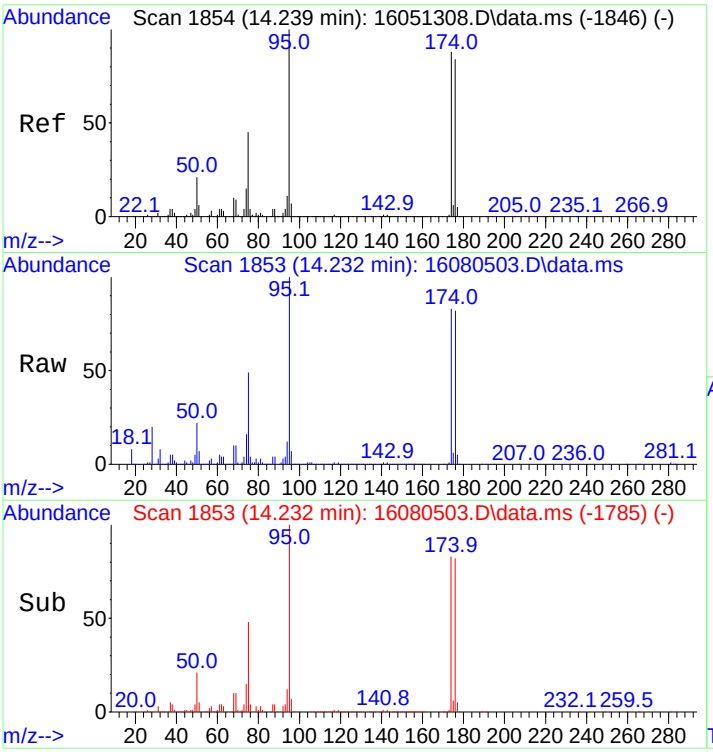


#49
d8-Toluene(SURR)
Concen: 254.36 ng
RT: 11.101 min Scan# 1437
Delta R.T. 0.023 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 98 Resp: 381595

Ion	Ratio	Lower	Upper
98	100		
100	66.8	56.0	84.0

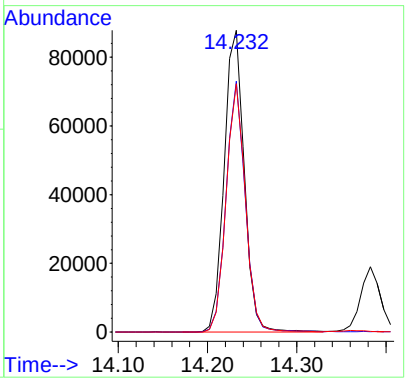


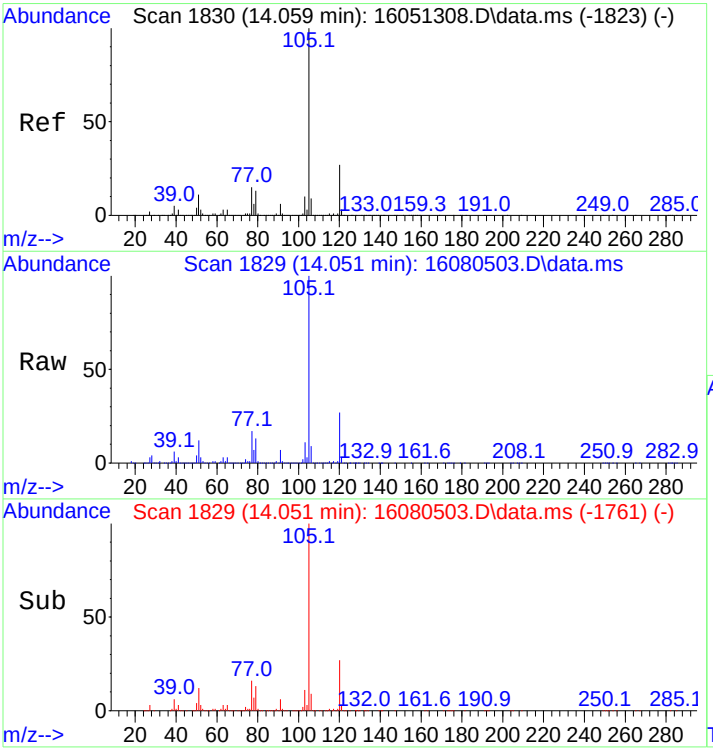


#50
4-Bromofluorobenzene(SURR)
Concen: 275.51 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 95 Resp: 137423

Ion	Ratio	Lower	Upper
95	100		
174	79.0	67.8	101.8
176	78.8	64.8	97.2

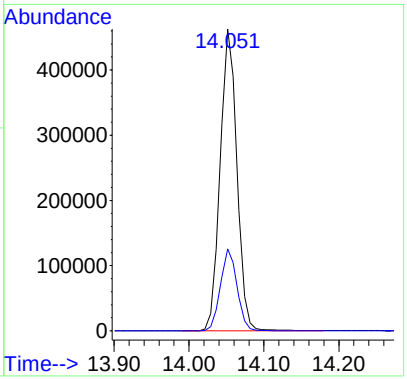


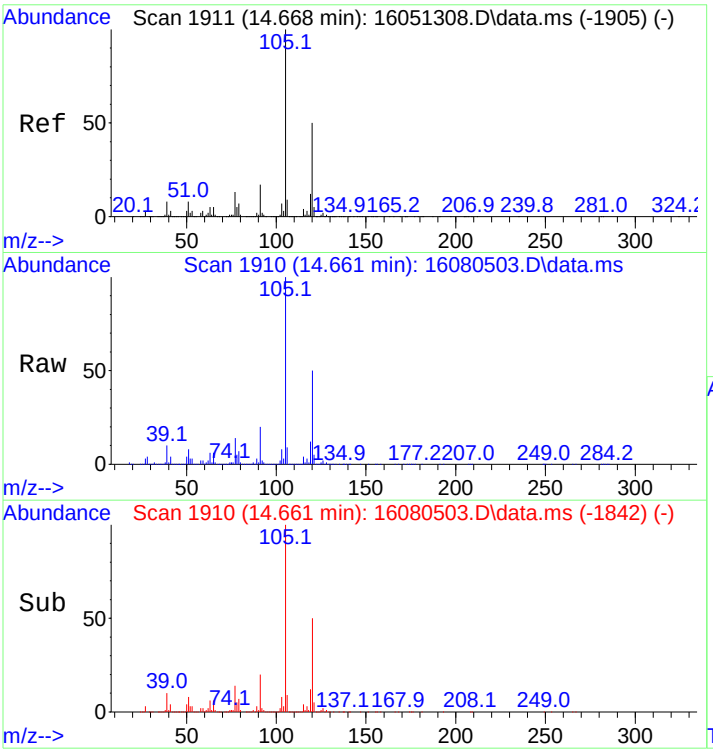


#51
Isopropylbenzene
Concen: 245.54 ng
RT: 14.051 min Scan# 1829
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 717811

Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.4	32.2

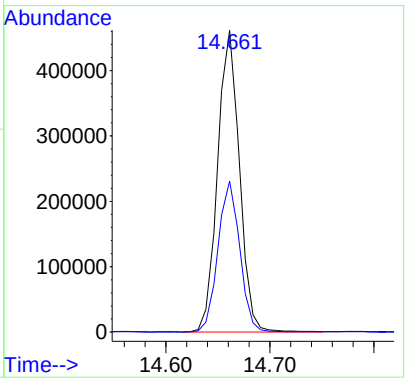


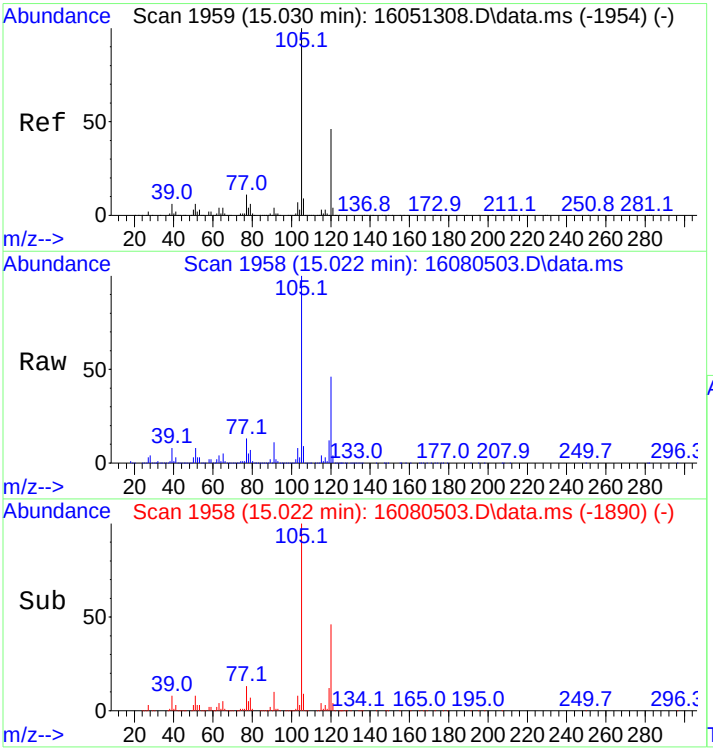


#52
1,3,5-Trimethylbenzene
Concen: 235.95 ng
RT: 14.661 min Scan# 1910
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 672235

Ion	Ratio	Lower	Upper
105	100		
120	49.9	39.9	59.9

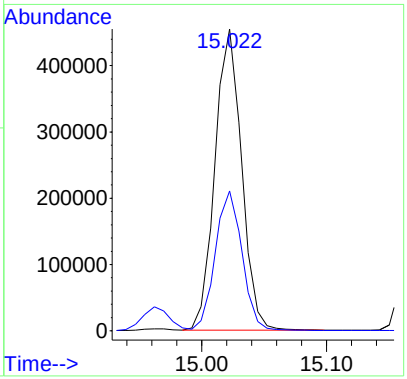


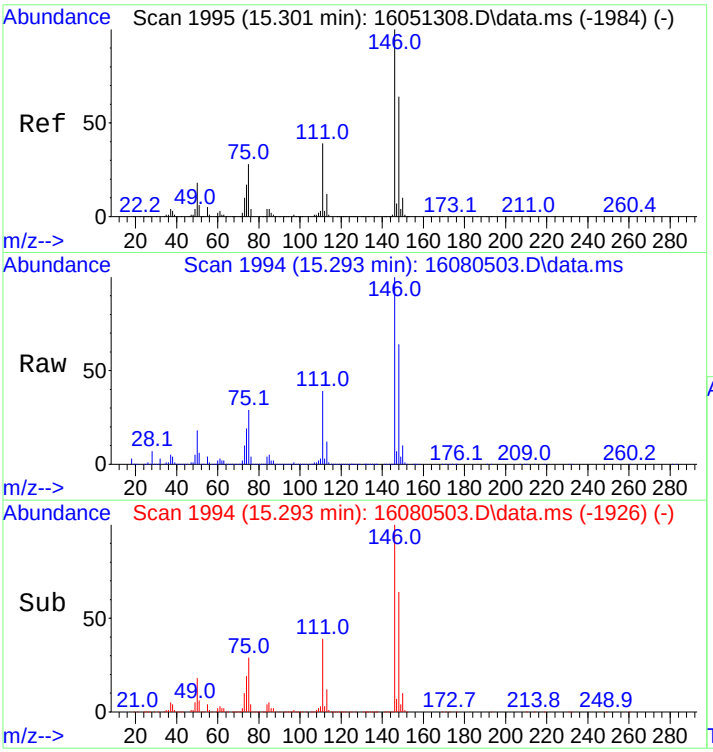


#53
1,2,4-Trimethylbenzene
Concen: 239.56 ng
RT: 15.022 min Scan# 1958
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 673928

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.5	56.3

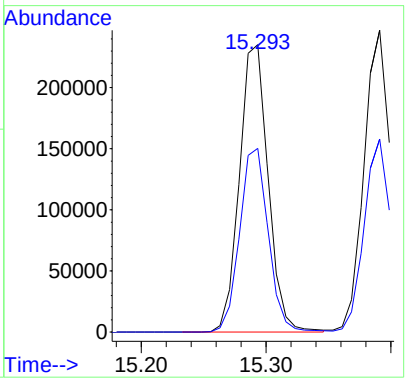


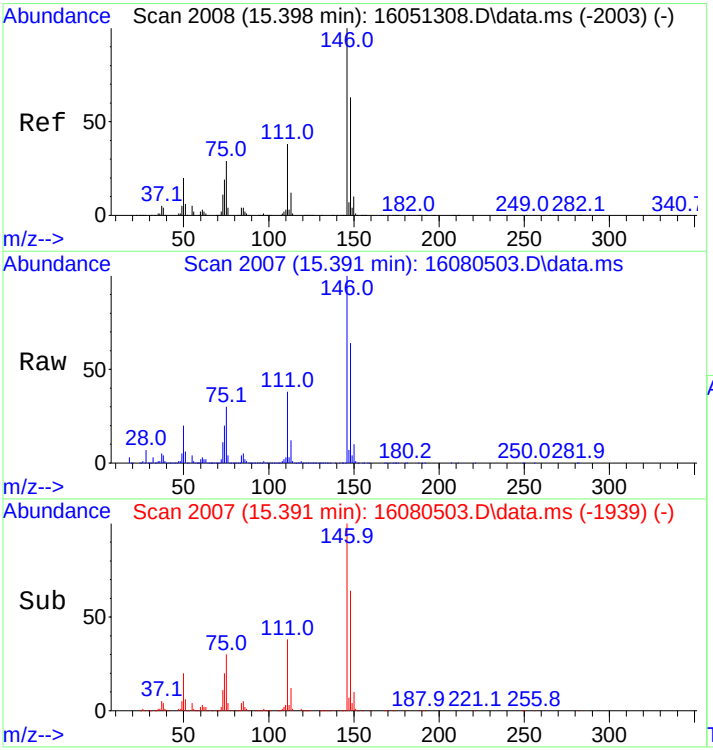


#54
1,3-Dichlorobenzene
Concen: 256.38 ng
RT: 15.293 min Scan# 1994
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:146 Resp: 376407

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.6	76.0

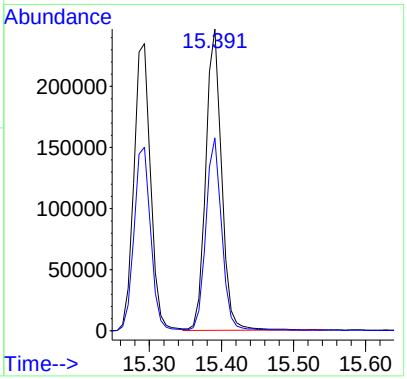


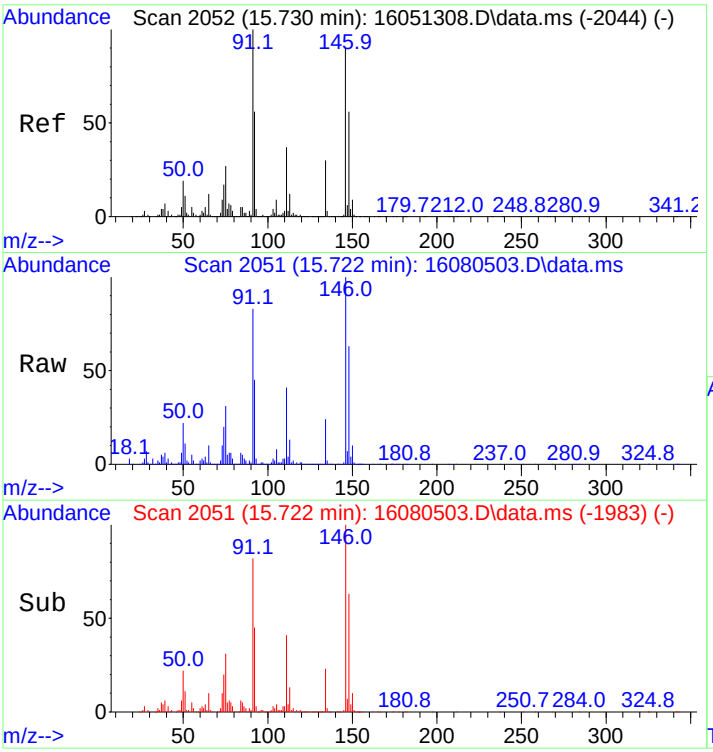


#55
1,4-Dichlorobenzene
Concen: 244.68 ng
RT: 15.391 min Scan# 2007
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:146 Resp: 379706

Ion	Ratio	Lower	Upper
146	100		
148	64.3	49.9	74.9

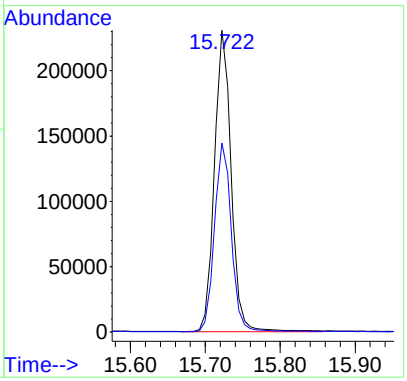


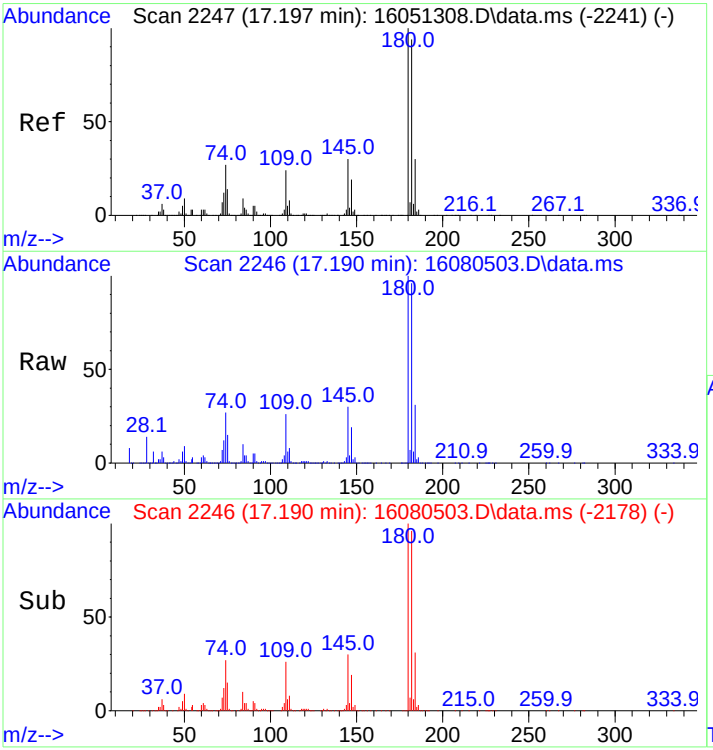


#56
1,2-Dichlorobenzene
Concen: 256.66 ng
RT: 15.722 min Scan# 2051
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:146 Resp: 356400

Ion	Ratio	Lower	Upper
146	100		
148	64.0	49.9	74.9

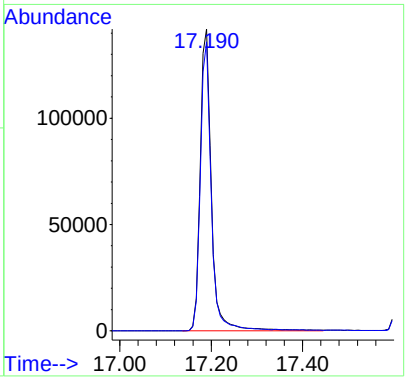


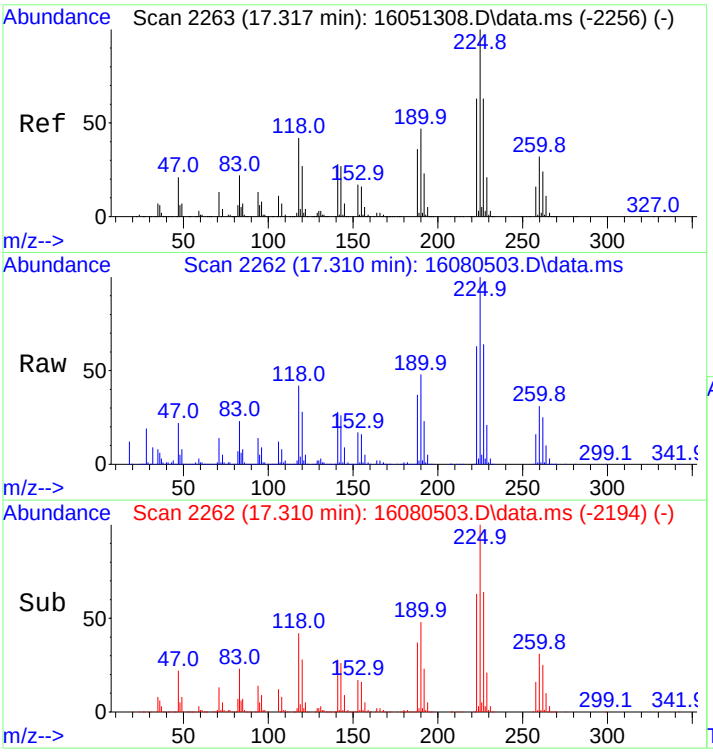


#57
1,2,4-Trichlorobenzene
Concen: 203.92 ng
RT: 17.190 min Scan# 2246
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:180 Resp: 240174

Ion	Ratio	Lower	Upper
180	100		
182	93.3	75.0	112.4

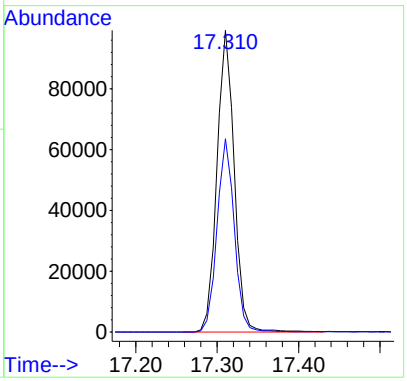


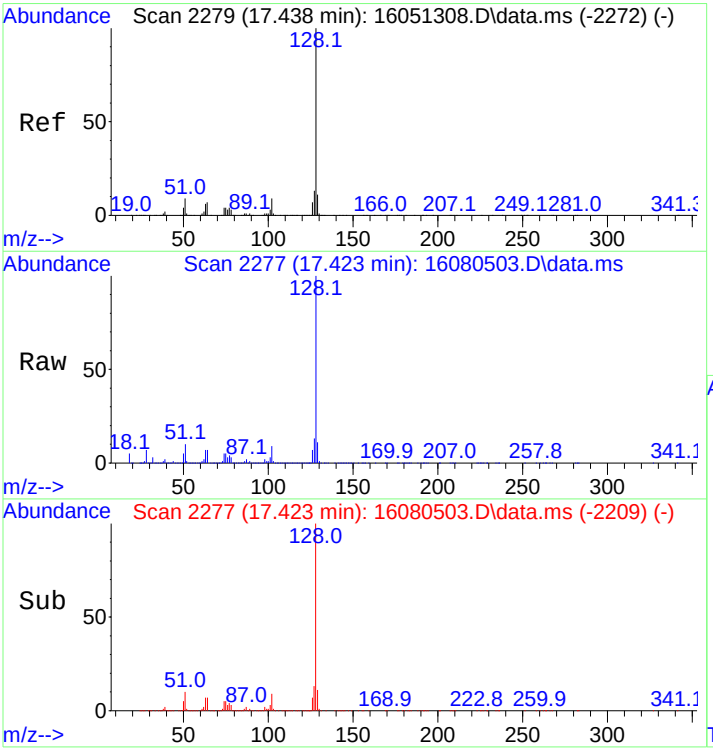


#58
Hexachlorobutadiene
Concen: 237.65 ng
RT: 17.310 min Scan# 2262
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:225 Resp: 147127

Ion	Ratio	Lower	Upper
225	100		
227	63.9	51.1	76.7

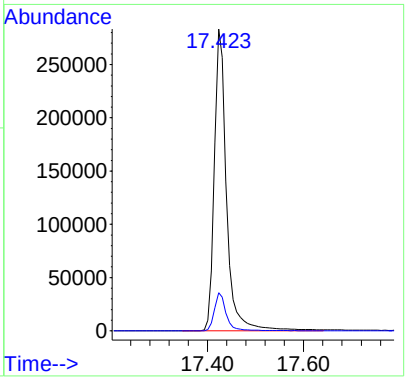


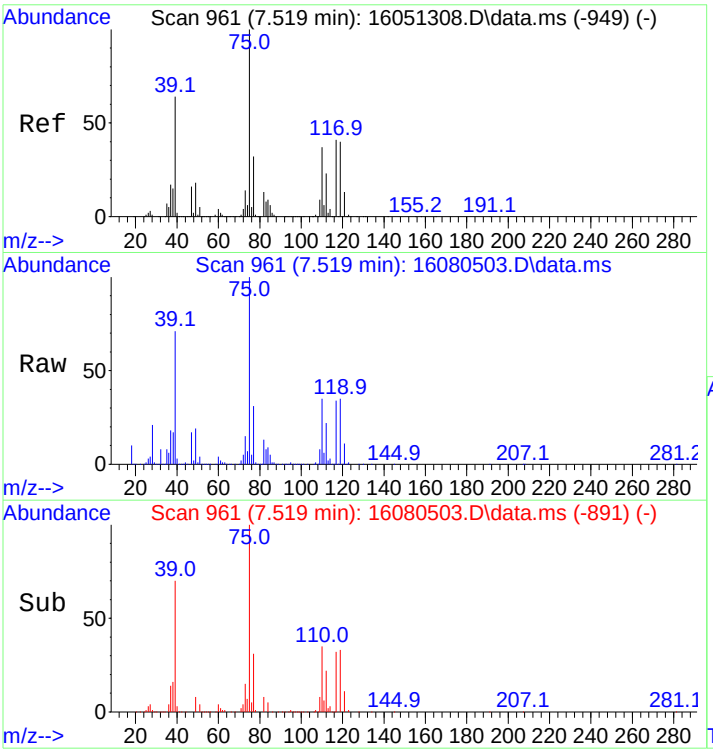


#59
Naphthalene
Concen: 173.10 ng
RT: 17.423 min Scan# 2277
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:128 Resp: 500421

Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.8	14.8

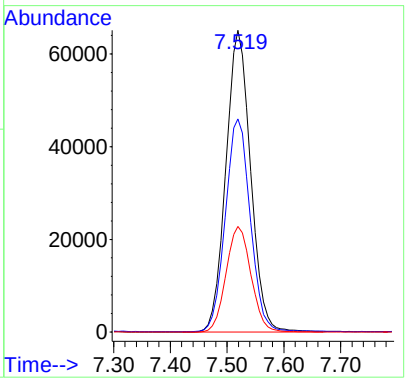


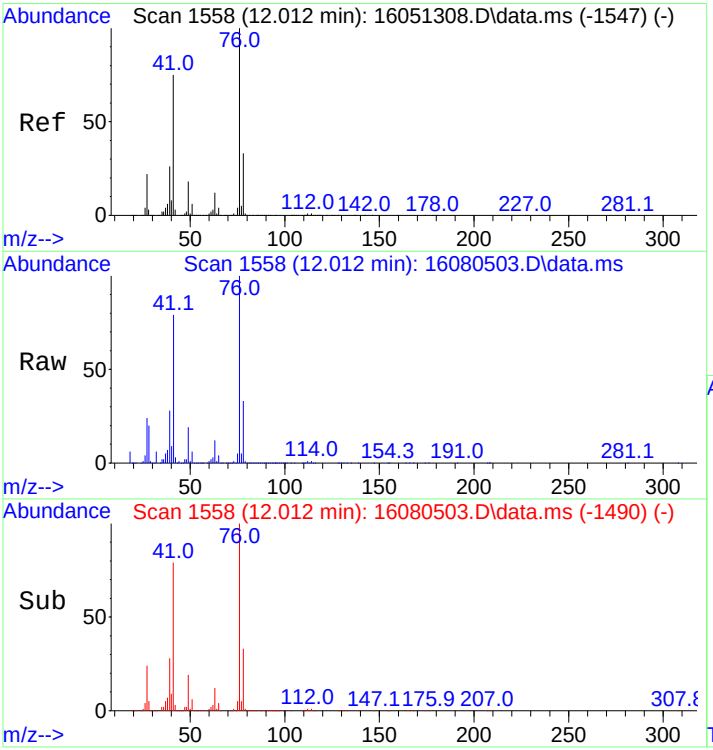


#60
1,1-Dichloropropene
Concen: 244.97 ng
RT: 7.519 min Scan# 961
Delta R.T. 0.030 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 75 Resp: 197159

Ion	Ratio	Lower	Upper
75	100		
39	71.4	51.8	77.6
110	35.4	29.3	43.9

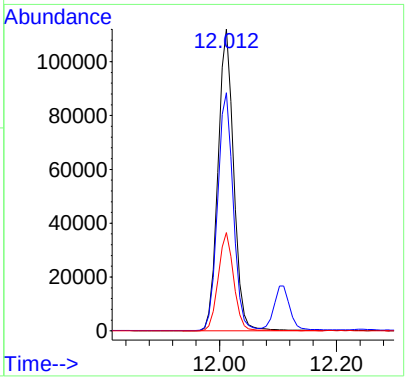


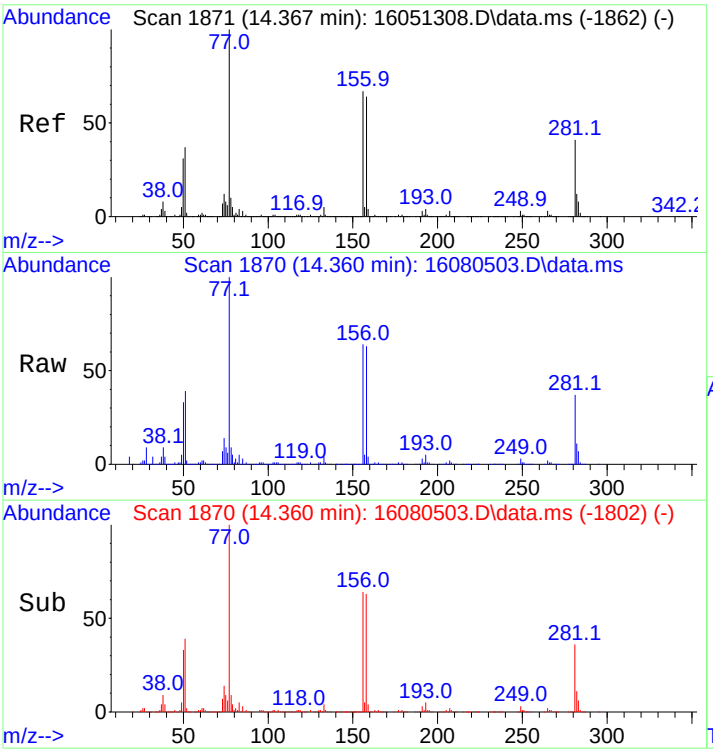


#61
1,3-Dichloropropane
Concen: 233.15 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 76 Resp: 209292

Ion	Ratio	Lower	Upper
76	100		
41	78.0	58.2	87.4
78	32.2	26.1	39.1

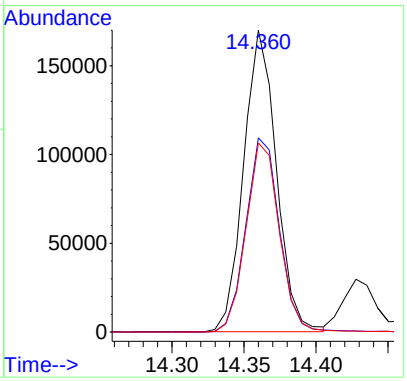


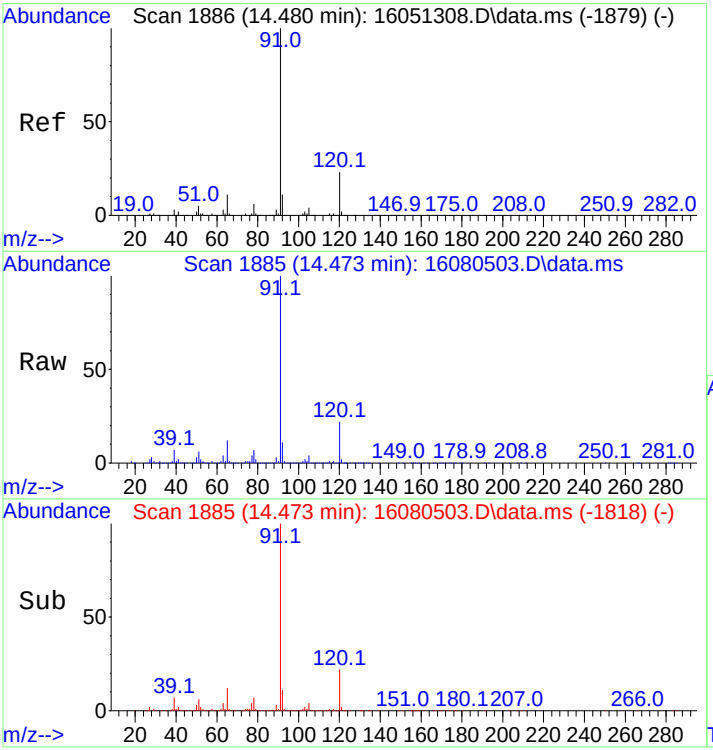


#62
Bromobenzene
Concen: 257.20 ng
RT: 14.360 min Scan# 1870
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 77 Resp: 267589

Ion	Ratio	Lower	Upper
77	100		
156	66.7	55.0	82.4
158	64.4	53.3	79.9

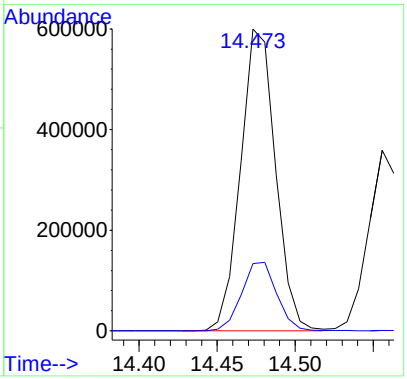


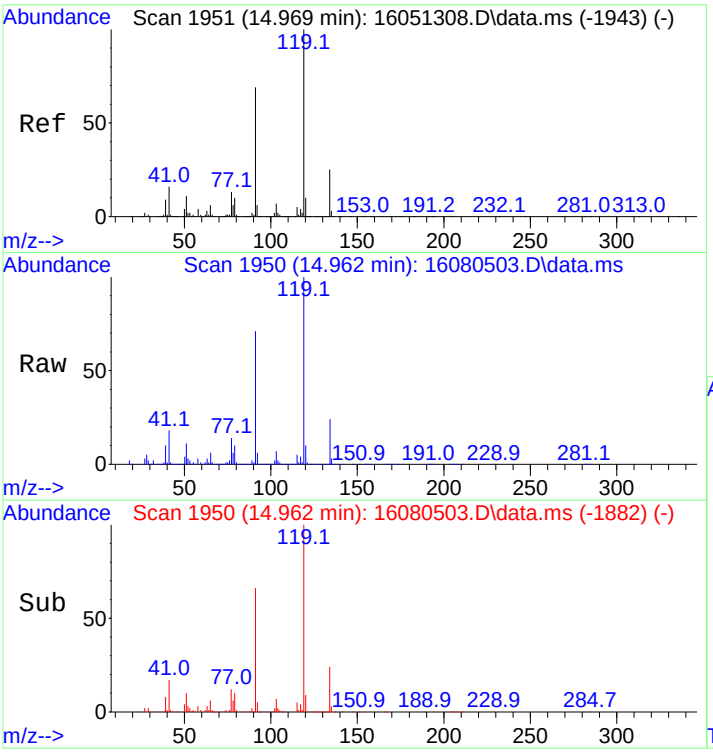


#63
n-Propylbenzene
Concen: 252.29 ng
RT: 14.473 min Scan# 1885
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 933395

Ion	Ratio	Lower	Upper
91	100		
120	23.0	18.6	28.0

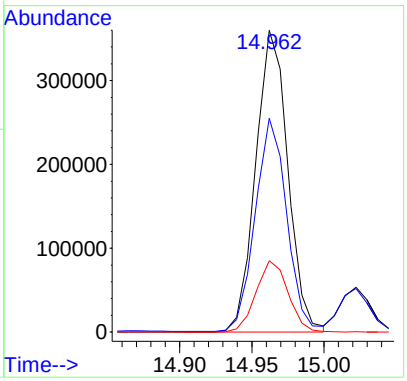


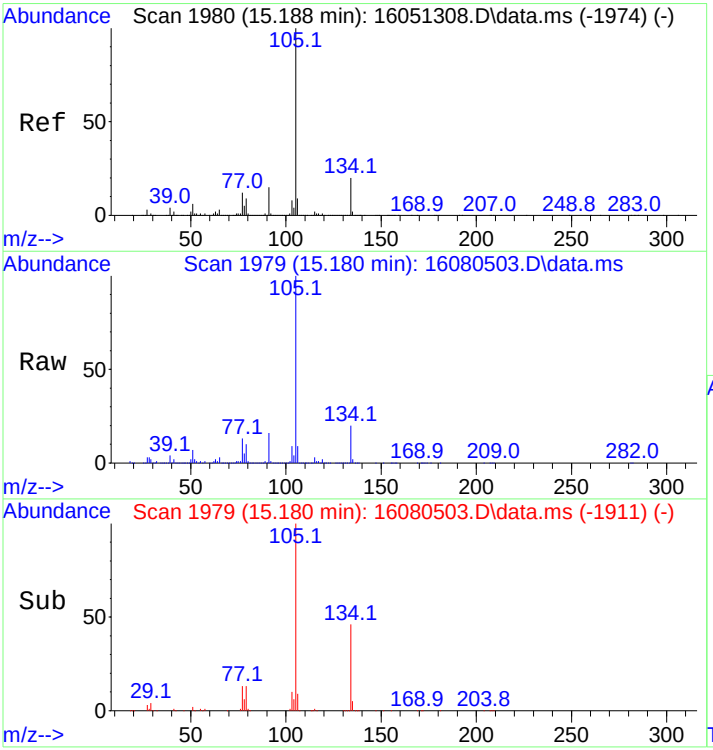


#64
tert-Butylbenzene
Concen: 251.37 ng
RT: 14.962 min Scan# 1950
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:119 Resp: 556712

Ion	Ratio	Lower	Upper
119	100		
91	69.2	54.0	81.0
134	23.7	19.9	29.9

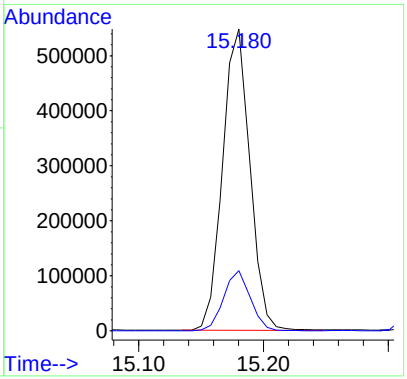


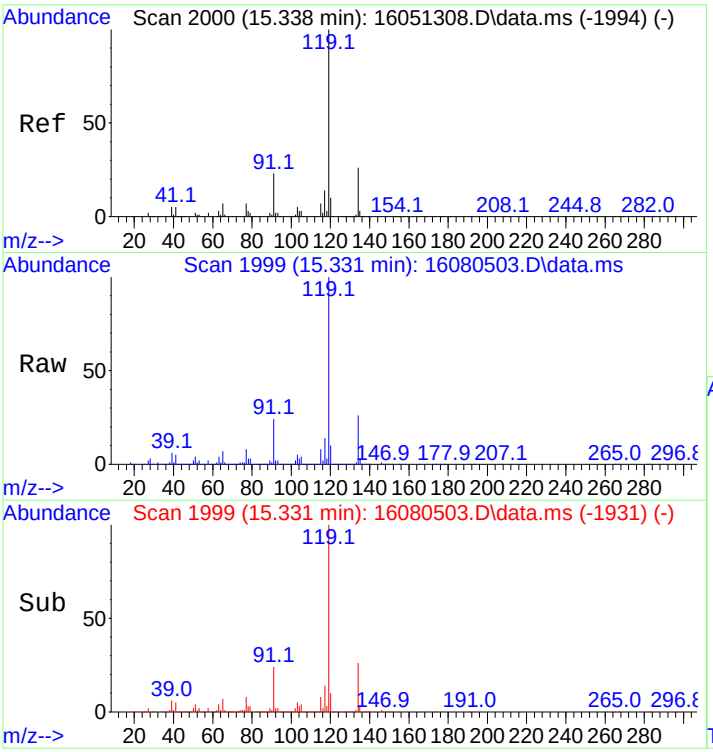


#65
sec-Butylbenzene
Concen: 244.78 ng
RT: 15.180 min Scan# 1979
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:105 Resp: 835423

Ion	Ratio	Lower	Upper
105	100		
134	19.6	15.7	23.5

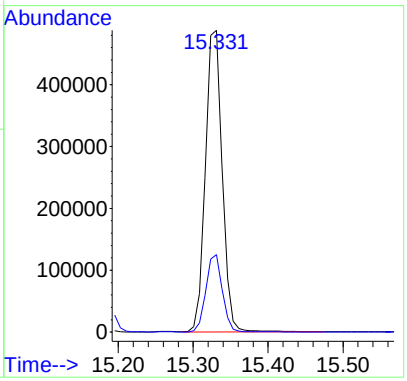


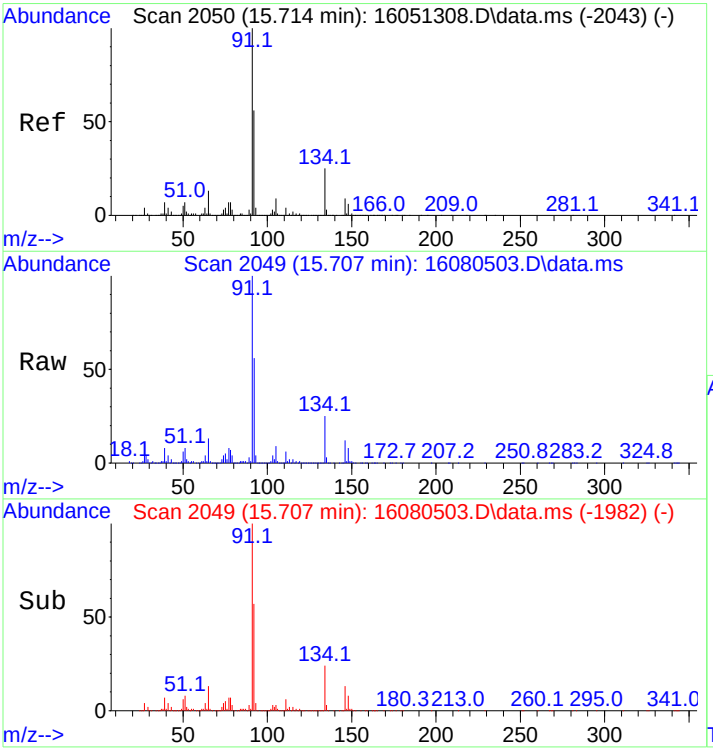


#66
p-Isopropyltoluene
Concen: 252.70 ng
RT: 15.331 min Scan# 1999
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:119 Resp: 760310

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.6	31.0

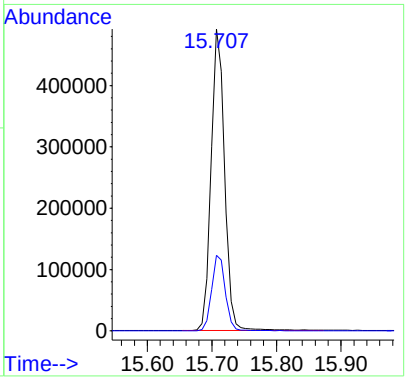


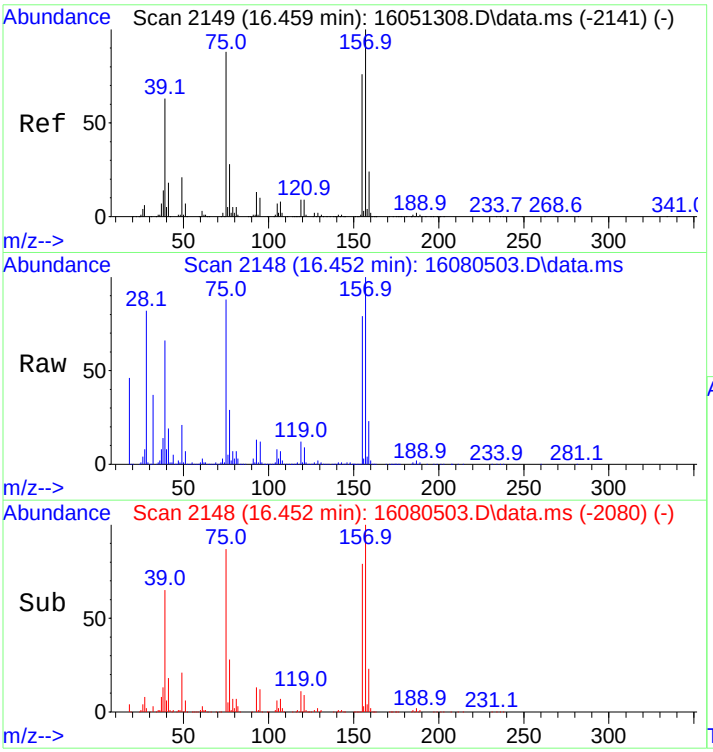


#67
n-Butylbenzene
Concen: 247.20 ng
RT: 15.707 min Scan# 2049
Delta R.T. 0.008 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion: 91 Resp: 719063

Ion	Ratio	Lower	Upper
91	100		
134	25.3	21.0	31.6

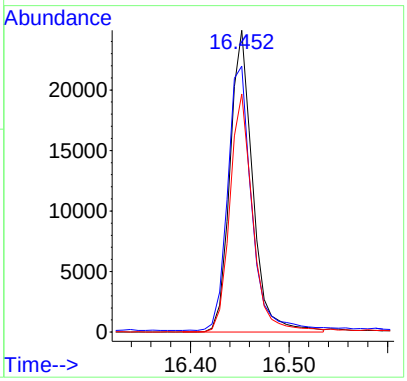




#68
1,2-Dibromo-3-chloropropane
Concen: 218.97 ng
RT: 16.452 min Scan# 2148
Delta R.T. 0.015 min
Lab File: 16080503.D
Acq: 5 Aug 2016 11:58 am

Tgt Ion:157 Resp: 39996

Ion	Ratio	Lower	Upper
157	100		
75	93.7	68.6	103.0
155	80.1	62.2	93.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080504.D
Acq On : 5 Aug 2016 1:35 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc : Coder SG
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 12:53:07 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.744	130	55538	250.00	ng	0.02
20) 1,4-Difluorobenzene	8.686	114	241028	250.00	ng	0.02
32) d5-Chlorobenzene	12.945	117	152948	250.00	ng	0.02
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.835	65	108163	331.30	ng	0.02
Spiked Amount 250.000			Recovery	=	132.52%	
48) d10-Ethylbenzene(SPK)	13.013	98	231657	220.35	ng	0.02
Spiked Amount 200.000			Recovery	=	110.18%	
49) d8-Toluene(SURR)	11.101	98	239934	264.80	ng	0.02
Spiked Amount 250.000			Recovery	=	105.92%	
50) 4-Bromofluorobenzene(S...	14.232	95	78717	261.29	ng	0.02
Spiked Amount 250.000			Recovery	=	104.52%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.717	85	78137	212.07	ng	99
3) Chloromethane	1.890	50	80823	184.96	ng	100
4) Vinyl Chloride	2.003	62	66588	126.79	ng	97
5) Bromomethane	2.349	94	42083	180.30	ng	100
6) Chloroethane	2.462	64	32011	117.07	ng	99
7) Trichlorofluoromethane	2.740	101	161448	206.10	ng	99
8) 1,1-Dichloroethene	3.357	61	196920	208.57	ng	98
9) Acetone	3.410	43	110022	313.11	ng	95
10) Iodomethane	0.000		0	N.D.	d	
11) Carbon disulfide	3.636	76	314269	212.63	ng	96
12) Methylene Chloride	4.057	49	142668	218.35	ng	100
13) trans,1,2-Dichloroethene	4.494	61	169716	270.81	ng	100
14) 1,1-Dichloroethane	5.269	63	195591	251.63	ng	99
15) Vinyl Acetate	0.000		0	N.D.	d	
16) cis,1,2-Dichloroethene	6.322	61	172627	237.67	ng	97
17) 2-Butanone	6.330	43	93831	373.48	ng	96
18) Chloroform	6.970	83	193677	265.60	ng	97
19) 1,1,1-Trichloroethane	7.210	97	128537	308.27	ng	99
22) Carbon Tetrachloride	7.481	117	137000	297.52	ng	97
23) Benzene	7.850	78	417473	239.25	ng	100
24) 1,2-Dichloroethane	7.978	62	150560	301.42	ng	97
25) Trichloroethene	9.054	95	110332	282.04	ng	93
26) 1,2-Dichloropropane	9.513	63	108646	271.64	ng	100
27) Dibromomethane	9.649	93	68908	307.58	ng	92
28) Bromodichloromethane	10.003	83	137287	315.23	ng	99
29) cis,1,3-Dichloropropene	10.725	75	133789	299.87	ng	100
30) trans,1,3-Dichloropropene	11.568	75	113527	374.11	ng	98
31) 4-Methyl-2-Pentanone	10.973	43	182004	309.01	ng	93
33) Toluene	11.192	91	343761	226.60	ng	98
34) 1,1,2-Trichloroethane	11.816	83	86749	330.88	ng	96
35) Tetrachloroethene	11.884	166	94468	237.77	ng	98
36) 2-Hexanone	12.110	43	137263	352.69	ng	91
37) Chlorodibromomethane	12.275	129	112957	317.65	ng	99
38) Ethylene Dibromide	12.396	107	100760	310.42	ng	99
39) Chlorobenzene	12.975	112	221022	237.10	ng	100
40) 1,1,1,2-Tetrachloroethane	13.096	131	94610	285.97	ng	98
41) Ethylbenzene	13.103	91	405926	235.53	ng	99
42) M&P-Xylene	13.254	91	698367	476.50	ng	98
43) O-Xylene	13.660	91	360446	237.25	ng	99
44) Styrene	13.690	104	281827	217.32	ng	95
45) Bromoform	13.878	173	91721	327.27	ng	99
46) 1,1,2,2-Tetrachloroethane	14.383	83	136066m	307.21	ng	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080504.D
Acq On : 5 Aug 2016 1:35 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 12:53:07 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47)	1,2,3-Trichloropropane	14.435	75	109971m	300.57 ng	
51)	Isopropylbenzene	14.051	105	415417	235.27 ng	100
52)	1,3,5-Trimethylbenzene	14.661	105	441383	256.50 ng	100
53)	1,2,4-Trimethylbenzene	15.022	105	451354	265.64 ng	100
54)	1,3-Dichlorobenzene	15.293	146	227059	256.06 ng	99
55)	1,4-Dichlorobenzene	15.391	146	234002	249.66 ng	99
56)	1,2-Dichlorobenzene	15.722	146	216727	258.41 ng	99
57)	1,2,4-Trichlorobenzene	17.190	180	191432	269.11 ng	99
58)	Hexachlorobutadiene	17.310	225	84570	226.18 ng	99
59)	Naphthalene	17.430	128	493148	282.44 ng	100
60)	1,1-Dichloropropene	7.512	75	137965	283.82 ng	94
61)	1,3-Dichloropropane	12.012	76	161328	297.56 ng	95
62)	Bromobenzene	14.360	77	156832	249.58 ng	95
63)	n-Propylbenzene	14.480	91	557203	249.36 ng	98
64)	tert-Butylbenzene	14.962	119	325728	243.51 ng	98
65)	sec-Butylbenzene	15.180	105	507443	246.17 ng	100
66)	p-Isopropyltoluene	15.331	119	478260	263.18 ng	98
67)	n-Butylbenzene	15.715	91	487598	277.54 ng	97
68)	1,2-Dibromo-3-chloropr...	16.452	157	26748	242.46 ng	95

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

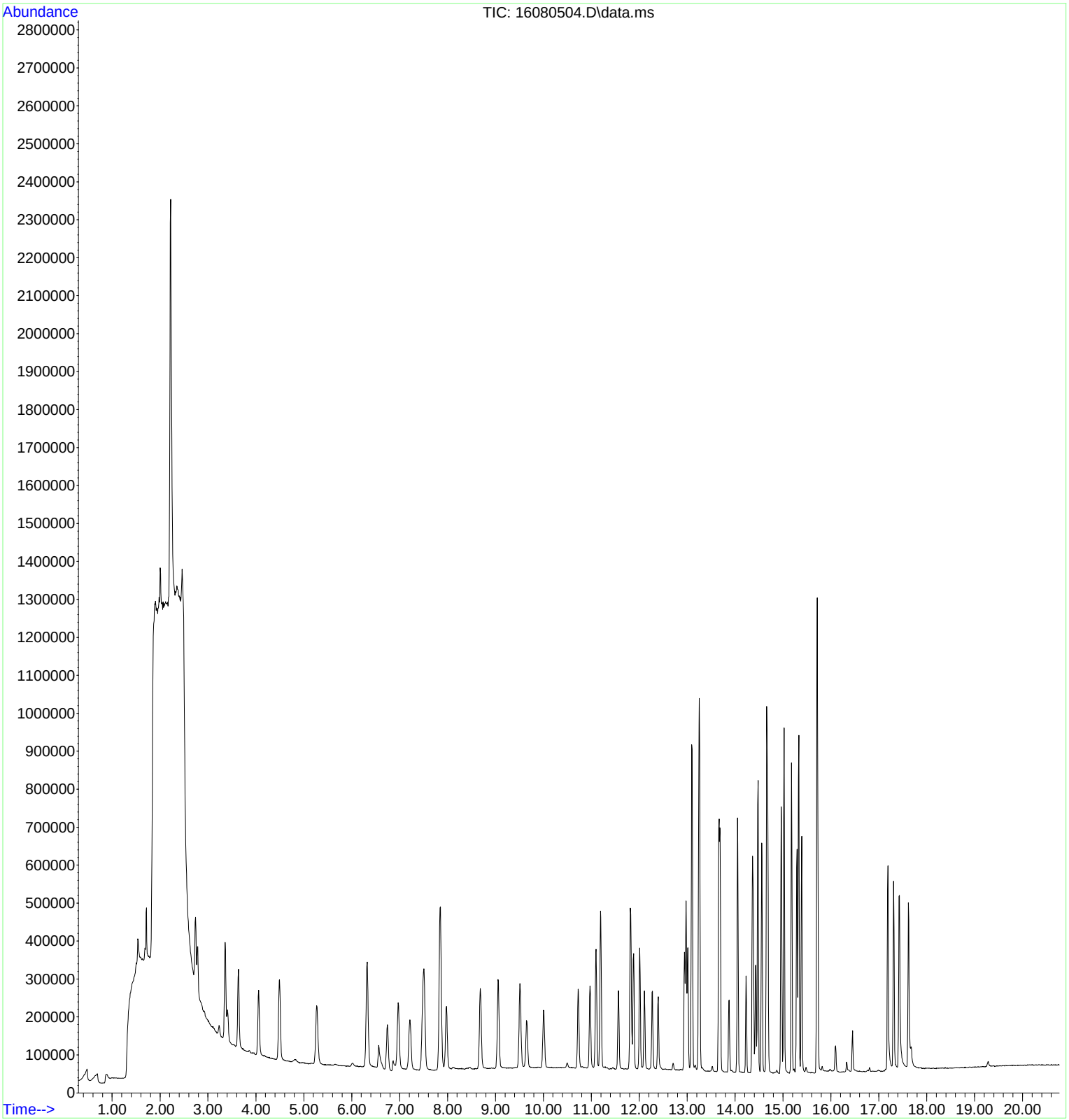
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

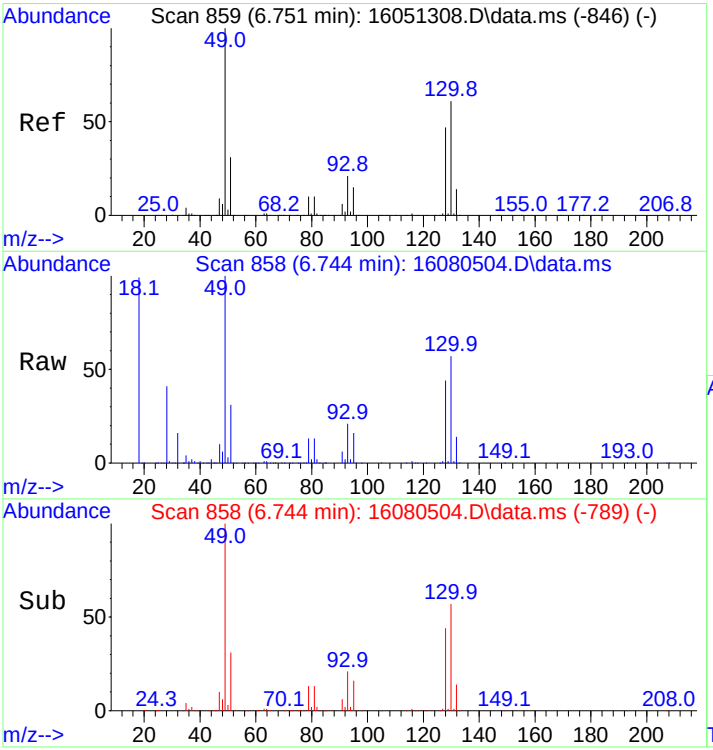
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080504.D
Acq On : 5 Aug 2016 1:35 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc : Coder SG
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 14:12:01 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

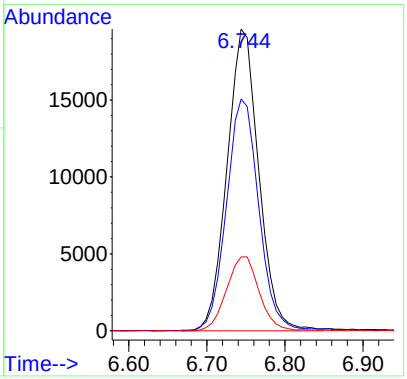


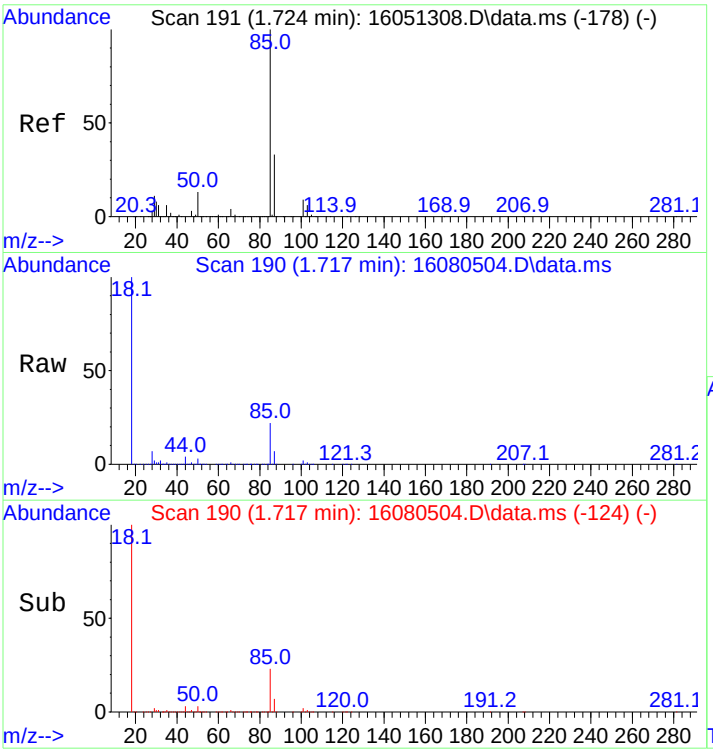


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.744 min Scan# 858
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:130 Resp: 55538

Ion	Ratio	Lower	Upper
130	100		
128	78.6	63.0	94.4
132	25.5	19.9	29.9

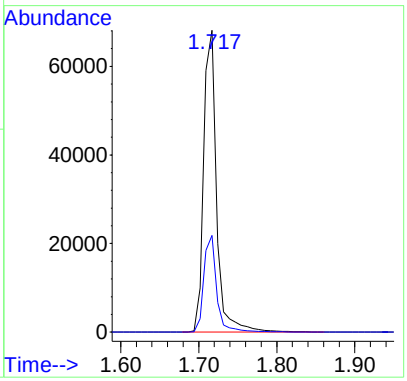


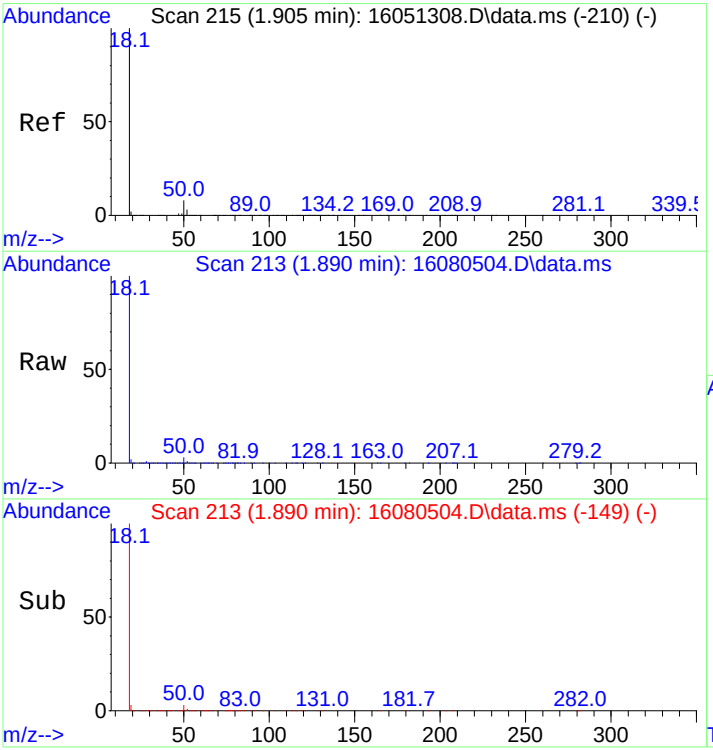


#2
Dichlorodifluoromethane
Concen: 212.07 ng
RT: 1.717 min Scan# 190
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 85 Resp: 78137

Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.0	39.0

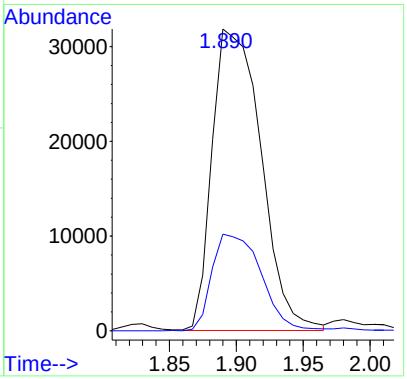


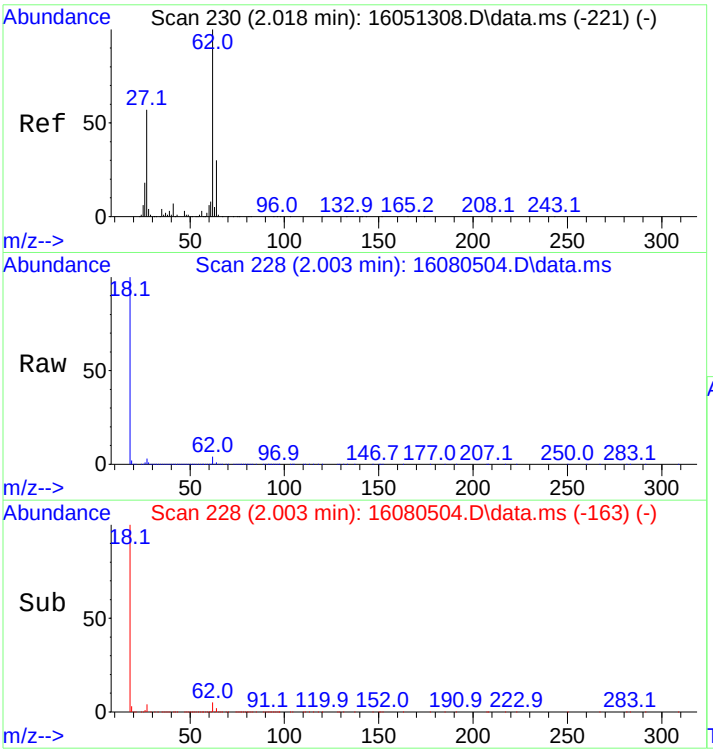


#3
Chloromethane
Concen: 184.96 ng
RT: 1.890 min Scan# 213
Delta R.T. -0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 50 Resp: 80823

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.0	39.0

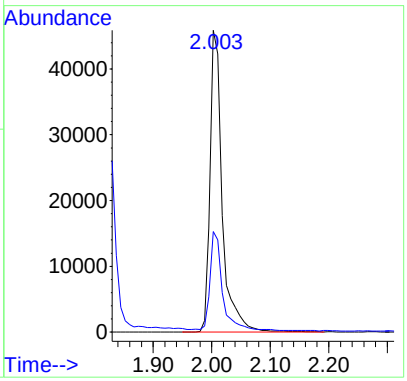


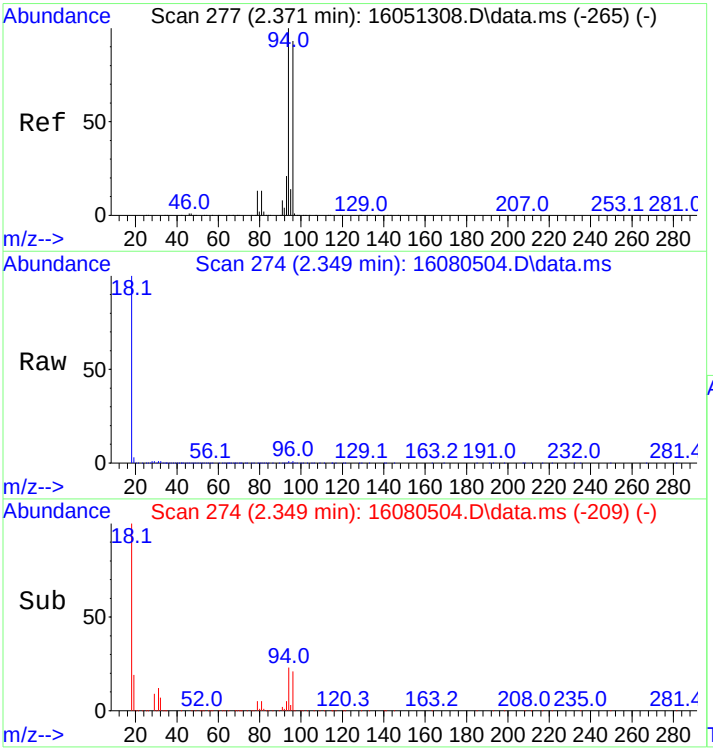


#4
Vinyl Chloride
Concen: 126.79 ng
RT: 2.003 min Scan# 228
Delta R.T. -0.007 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 62 Resp: 66588

Ion	Ratio	Lower	Upper
62	100		
64	33.7	25.7	38.5

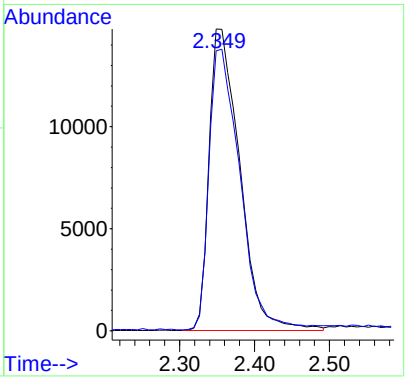


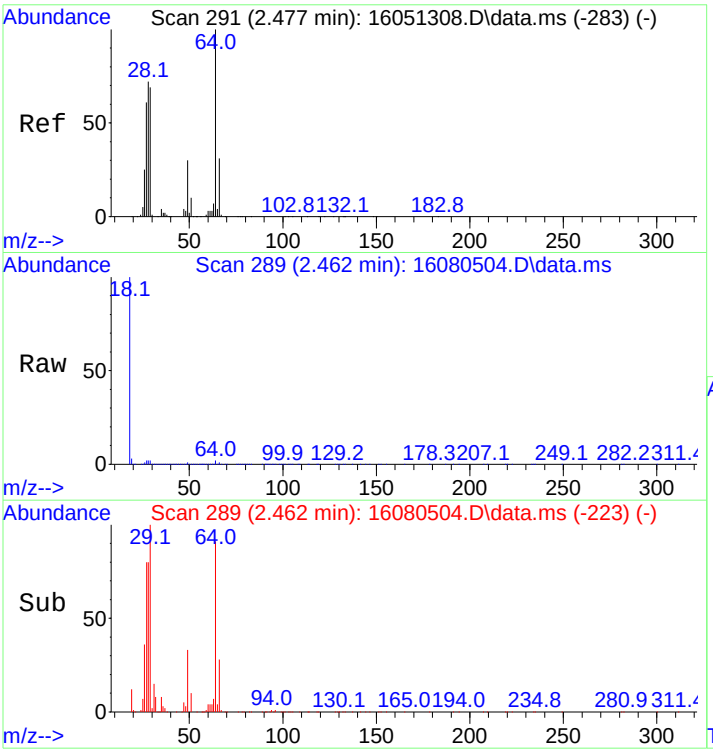


#5
Bromomethane
Concen: 180.30 ng
RT: 2.349 min Scan# 274
Delta R.T. -0.007 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 94 Resp: 42083

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.5	111.7

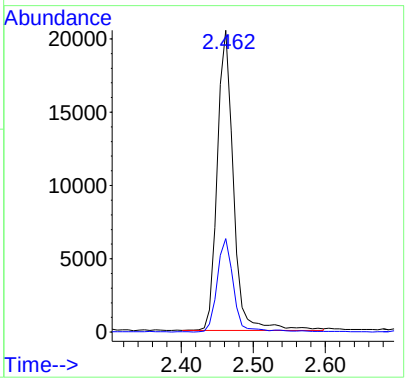


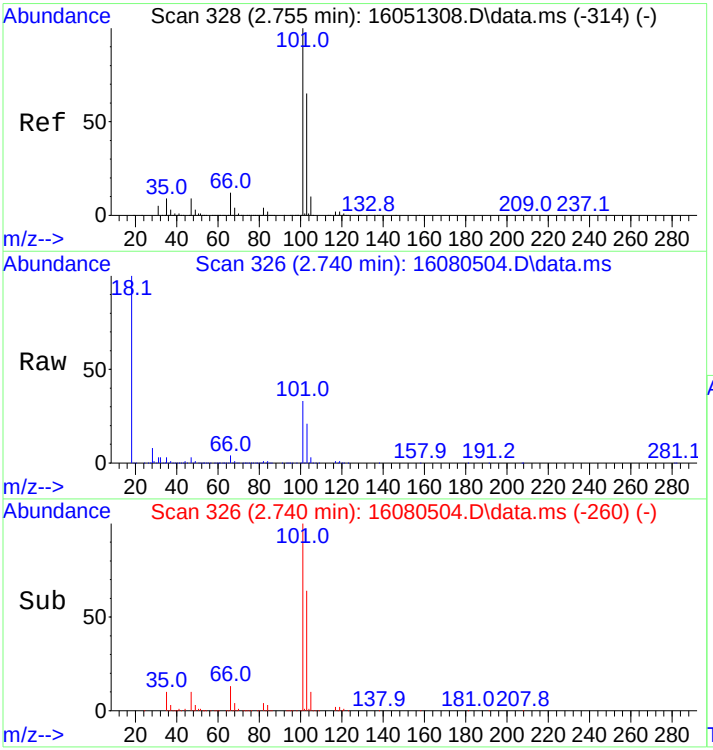


#6
Chloroethane
Concen: 117.07 ng
RT: 2.462 min Scan# 289
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 64 Resp: 32011

Ion	Ratio	Lower	Upper
64	100		
66	30.9	25.0	37.4

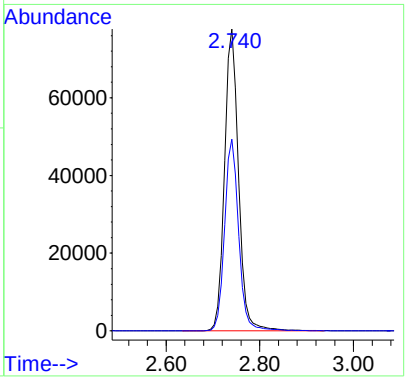


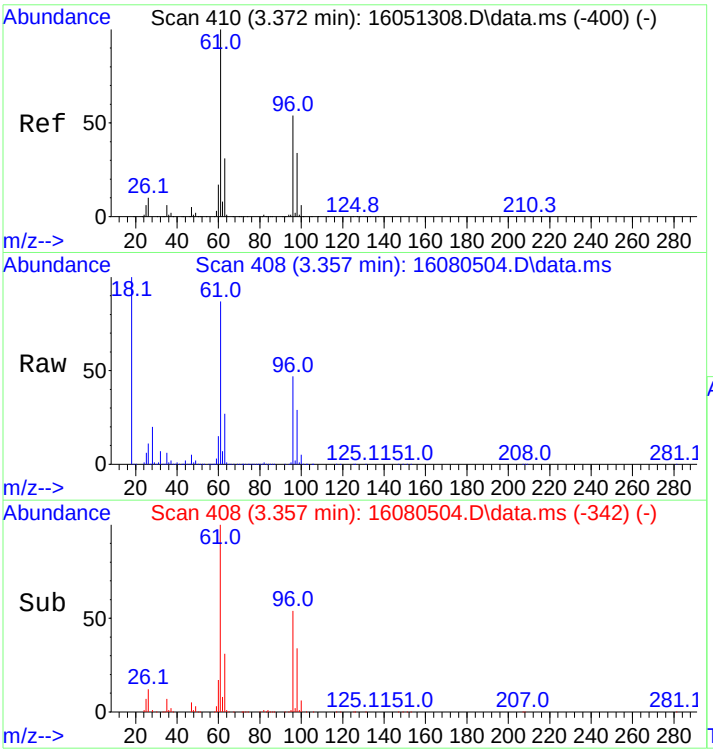


#7
Trichlorofluoromethane
Concen: 206.10 ng
RT: 2.740 min Scan# 326
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:101 Resp: 161448

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.8	77.6

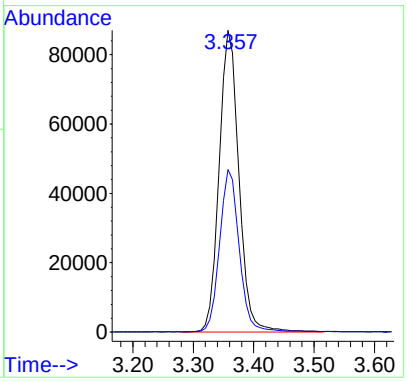


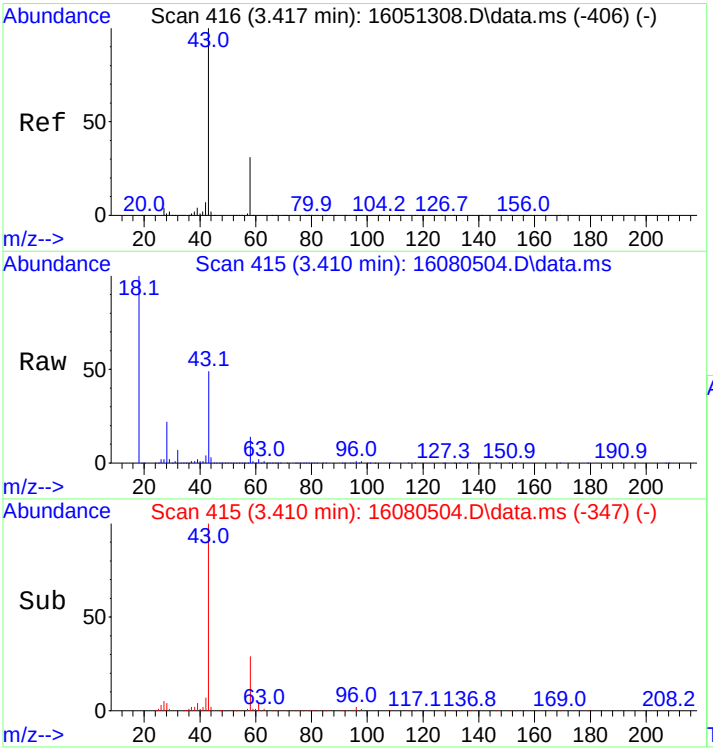


#8
1,1-Dichloroethene
Concen: 208.57 ng
RT: 3.357 min Scan# 408
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 61 Resp: 196920

Ion	Ratio	Lower	Upper
61	100		
96	53.4	44.1	66.1

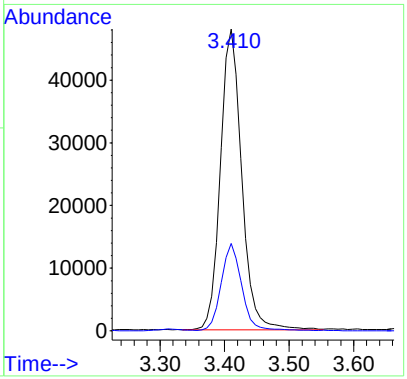


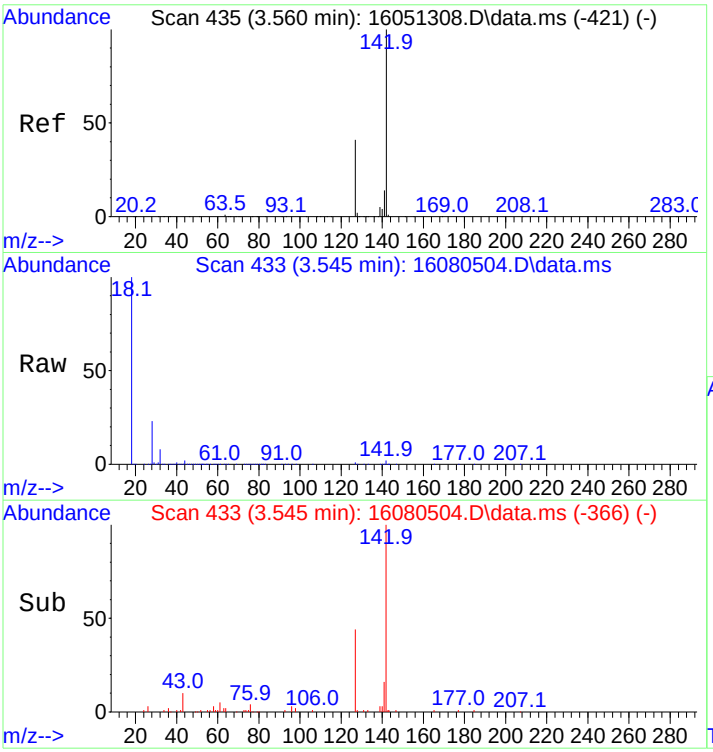


#9
Acetone
Concen: 313.11 ng
RT: 3.410 min Scan# 415
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 110022

Ion	Ratio	Lower	Upper
43	100		
58	28.2	24.7	37.1

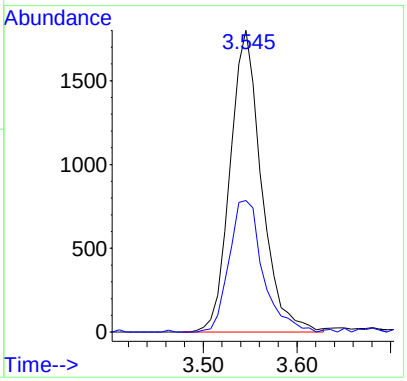


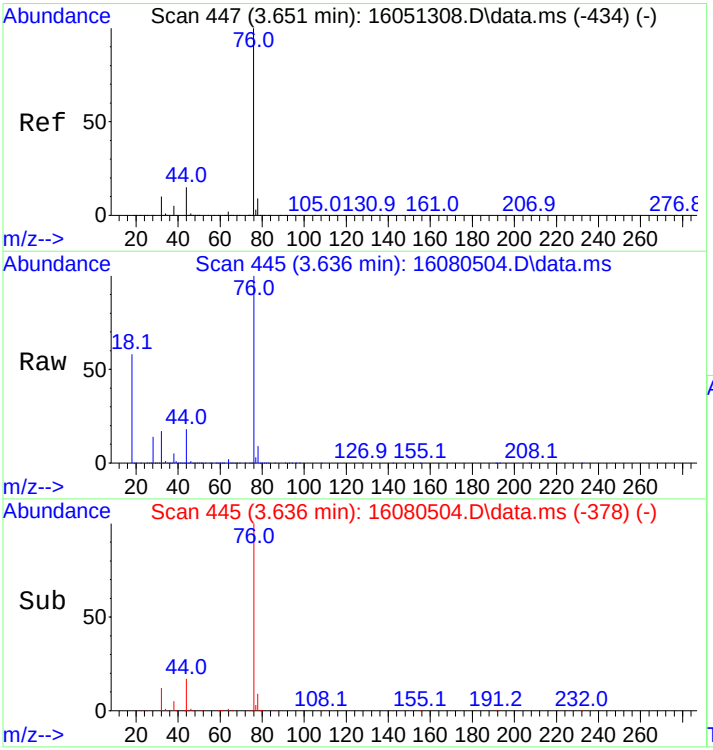


#10
Iodomethane
Concen: 11.20 ng
RT: 3.545 min Scan# 433
Delta R.T. 0.008 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:142 Resp: 4193

Ion	Ratio	Lower	Upper
142	100		
127	47.0	32.8	49.2

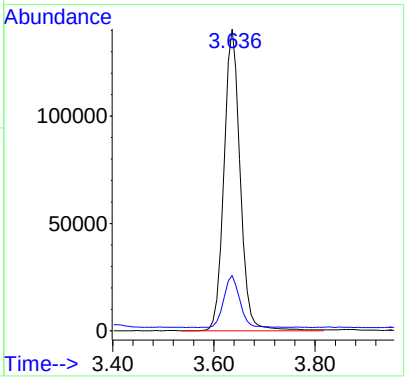


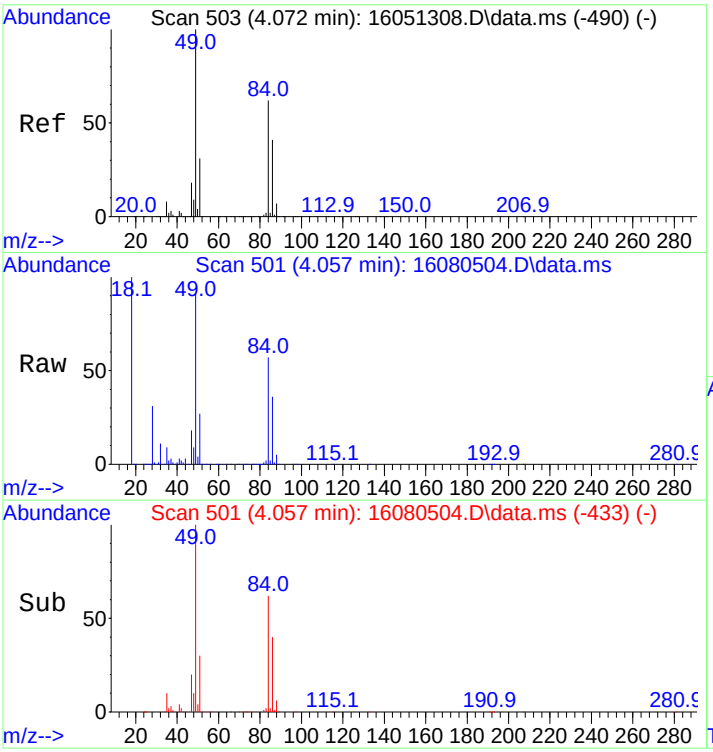


#11
Carbon disulfide
Concen: 212.63 ng
RT: 3.636 min Scan# 445
Delta R.T. 0.008 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 76 Resp: 314269

Ion	Ratio	Lower	Upper
76	100		
44	16.9	12.2	18.4

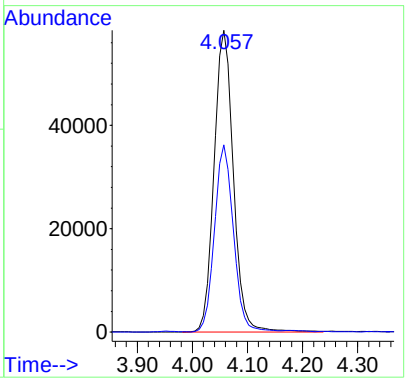


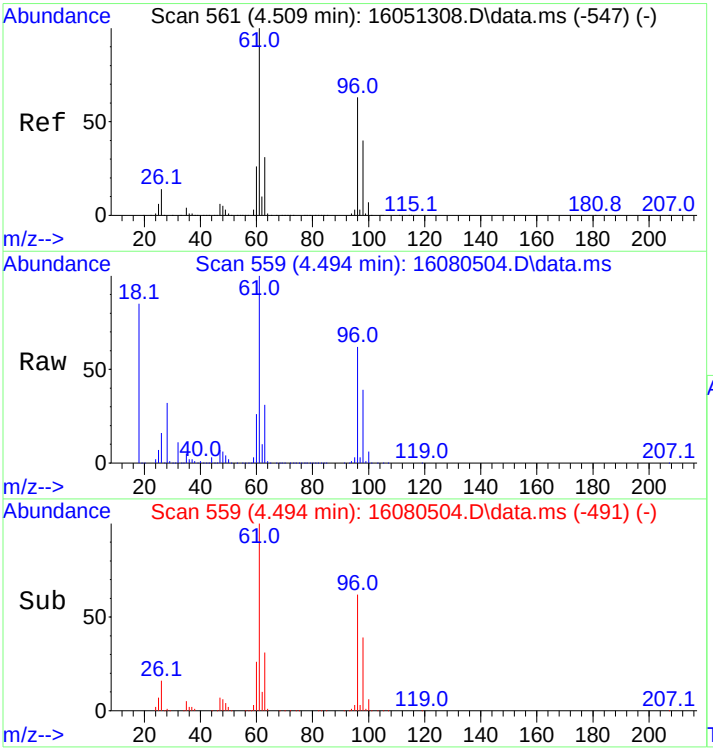


#12
Methylene Chloride
Concen: 218.35 ng
RT: 4.057 min Scan# 501
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 49 Resp: 142668

Ion	Ratio	Lower	Upper
49	100		
84	60.8	48.4	72.6

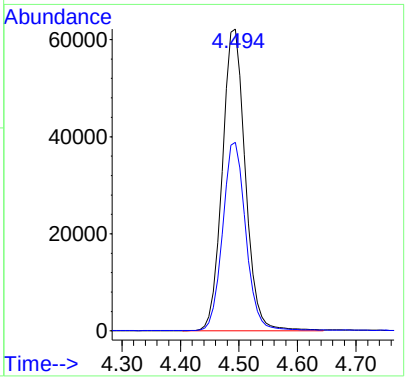


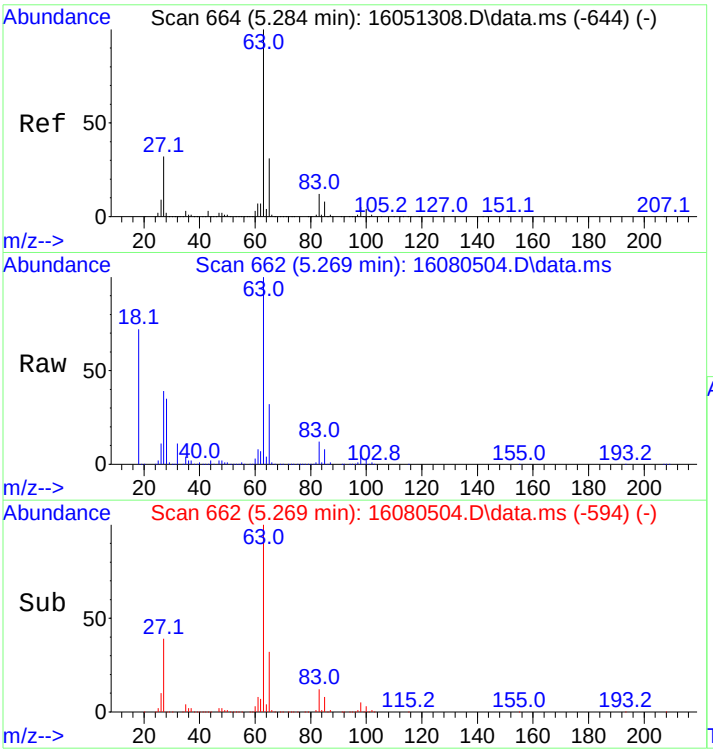


#13
trans,1,2-Dichloroethene
Concen: 270.81 ng
RT: 4.494 min Scan# 559
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 61 Resp: 169716

Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.2	75.4

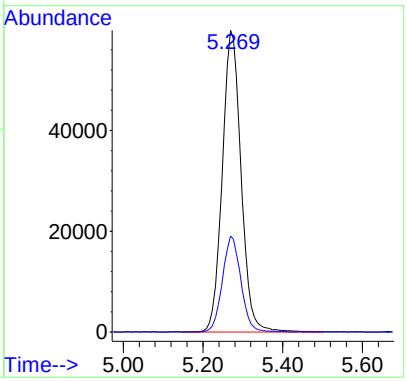


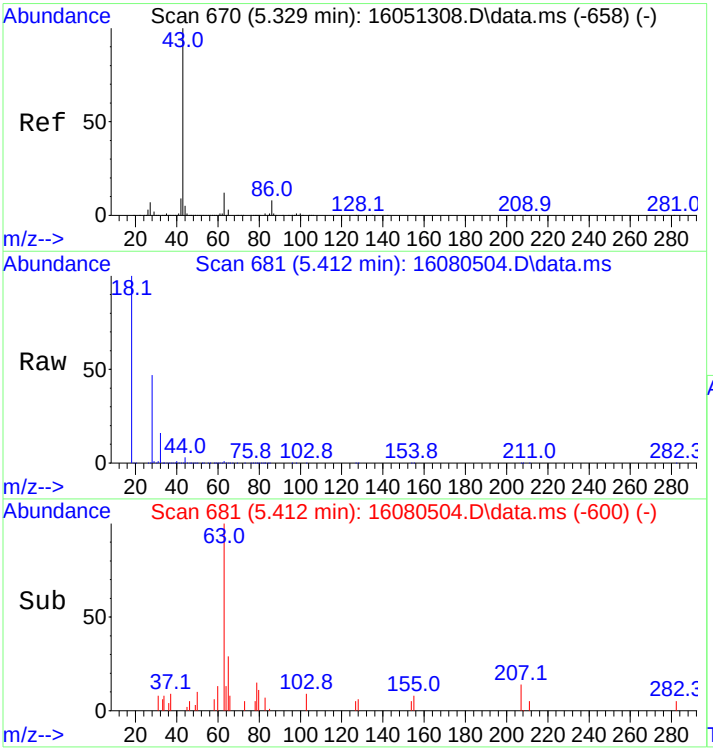


#14
1,1-Dichloroethane
Concen: 251.63 ng
RT: 5.269 min Scan# 662
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 63 Resp: 195591

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.6	37.0

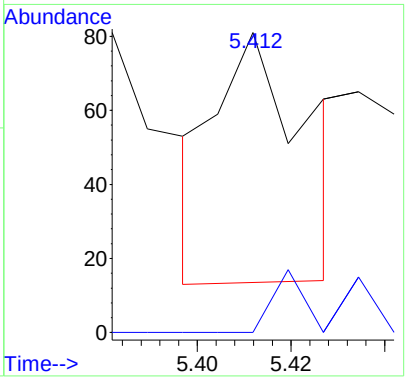


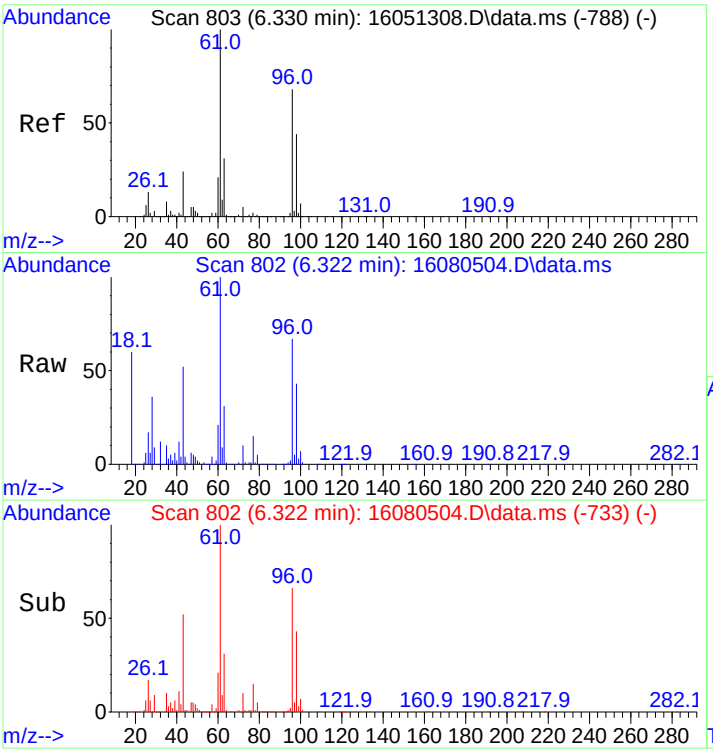


#15
Vinyl Acetate
Concen: Below Cal
RT: 5.412 min Scan# 681
Delta R.T. 0.113 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 90

Ion	Ratio	Lower	Upper
43	100		
86	8.9	6.6	9.8

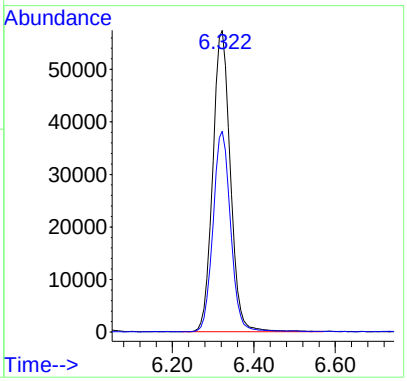


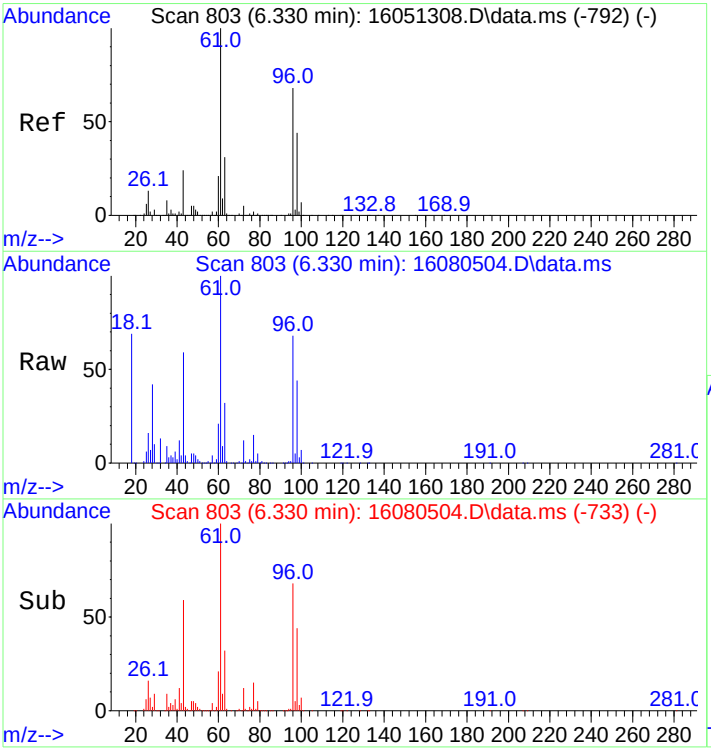


#16
cis,1,2-Dichloroethene
Concen: 237.67 ng
RT: 6.322 min Scan# 802
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 61 Resp: 172627

Ion	Ratio	Lower	Upper
61	100		
96	66.2	54.6	81.8

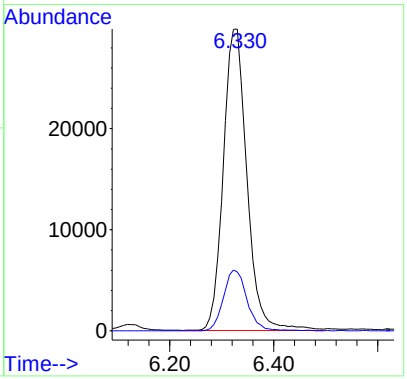


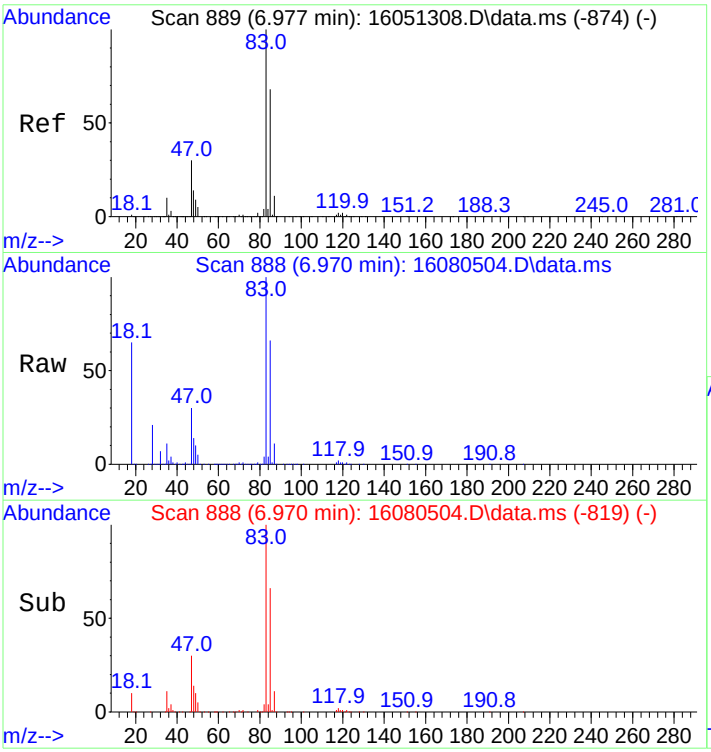


#17
2-Butanone
Concen: 373.48 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.030 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 93831

Ion	Ratio	Lower	Upper
43	100		
72	20.1	17.4	26.2

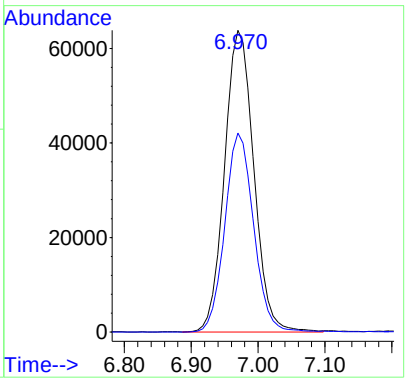


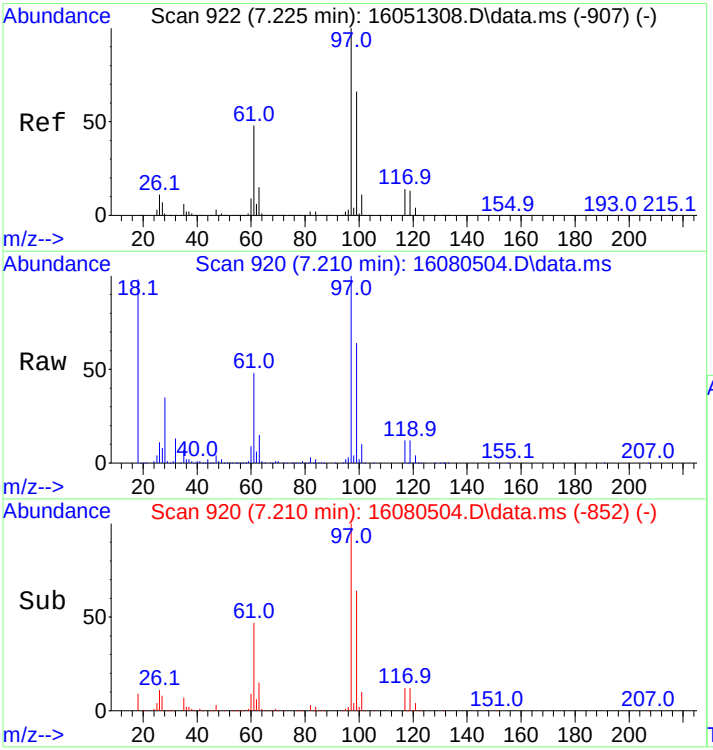


#18
Chloroform
Concen: 265.60 ng
RT: 6.970 min Scan# 888
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 193677

Ion	Ratio	Lower	Upper
83	100		
85	65.1	53.9	80.9

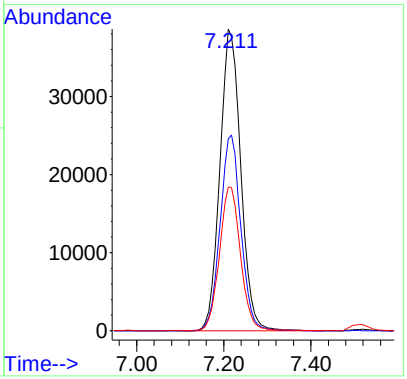


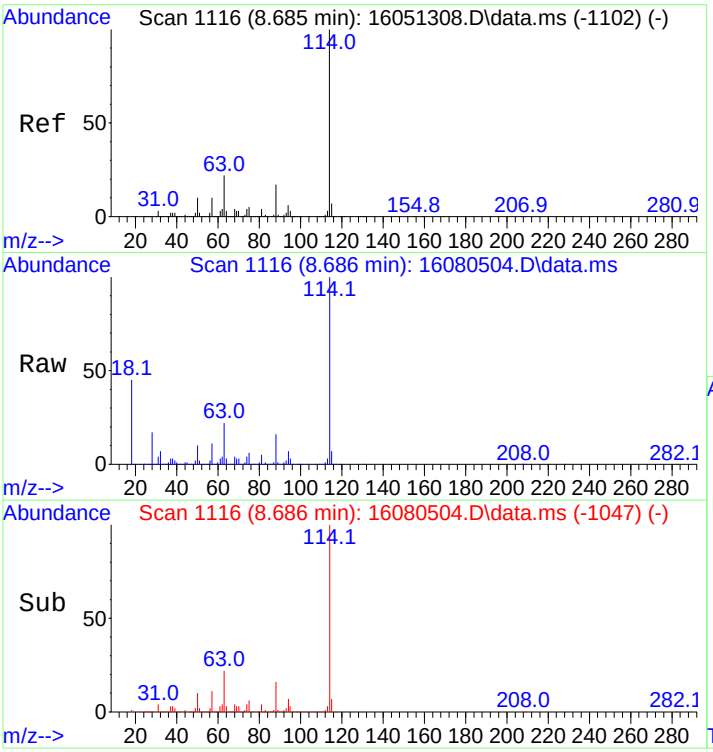


#19
1,1,1-Trichloroethane
Concen: 308.27 ng
RT: 7.210 min Scan# 920
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 97 Resp: 128537

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	48.1	37.6	56.4

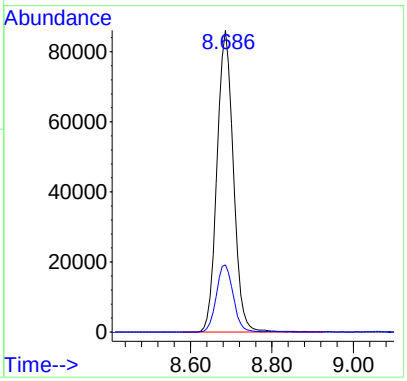


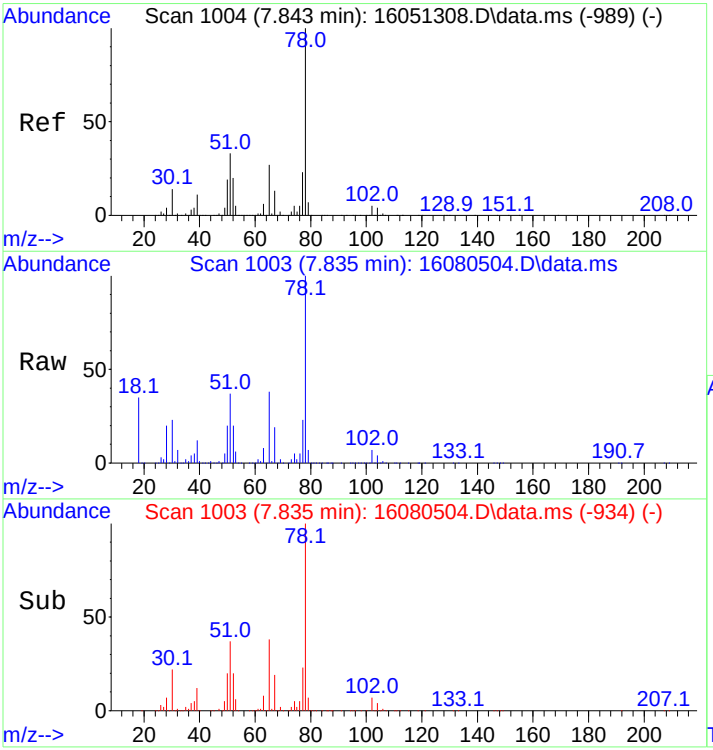


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.686 min Scan# 1116
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:114 Resp: 241028

Ion	Ratio	Lower	Upper
114	100		
63	22.9	17.8	26.8

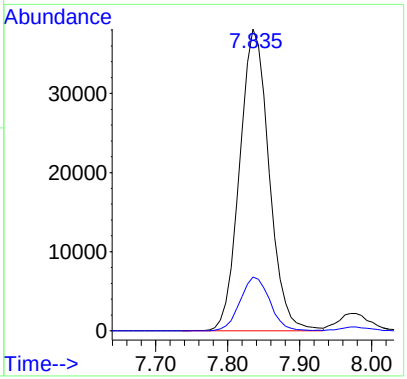


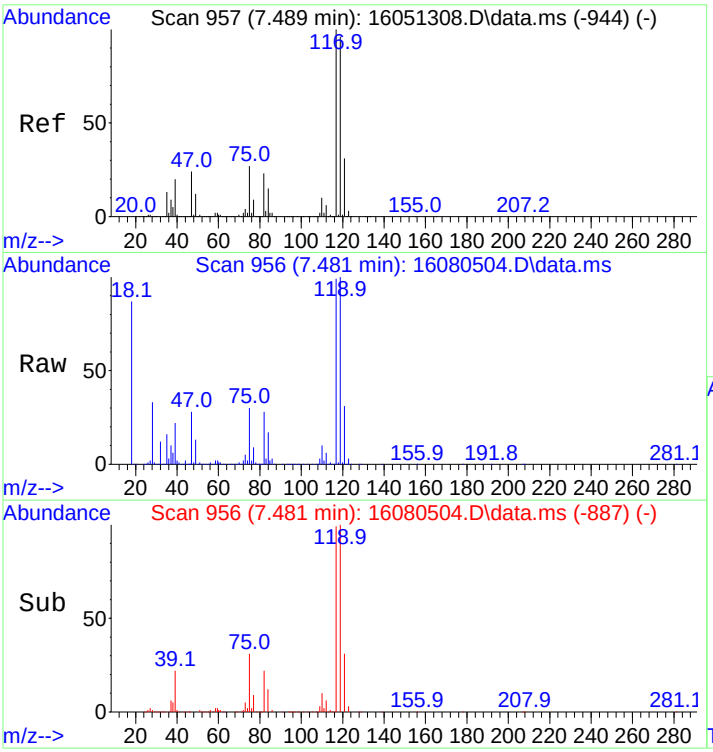


#21
d4-1,2-Dichloroethane(SURR)
Concen: 331.30 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 65 Resp: 108163

Ion	Ratio	Lower	Upper
65	100		
102	17.9	16.5	24.7

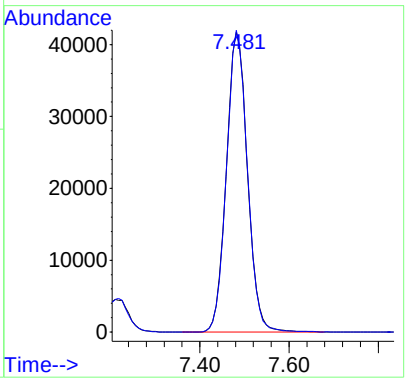


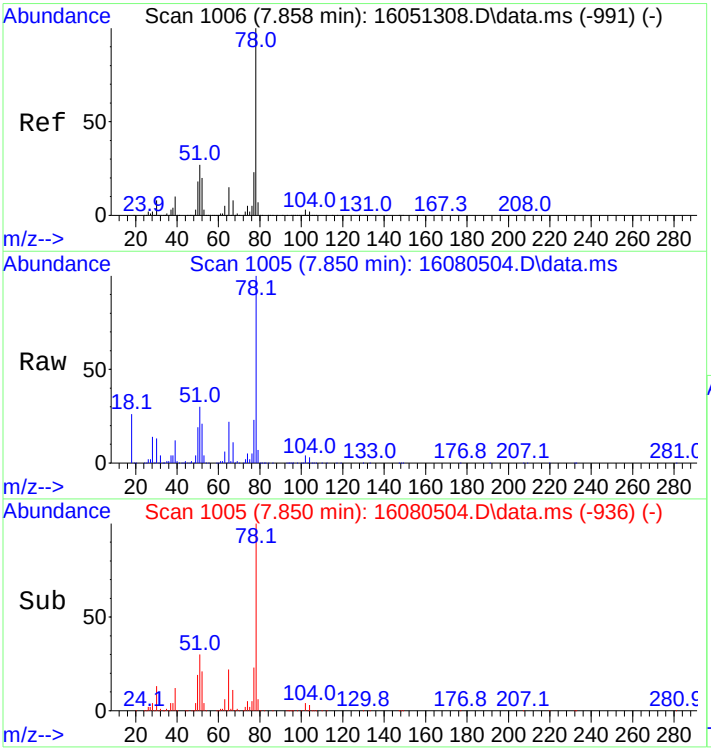


#22
Carbon Tetrachloride
Concen: 297.52 ng
RT: 7.481 min Scan# 956
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:117 Resp: 137000

Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.0	115.4

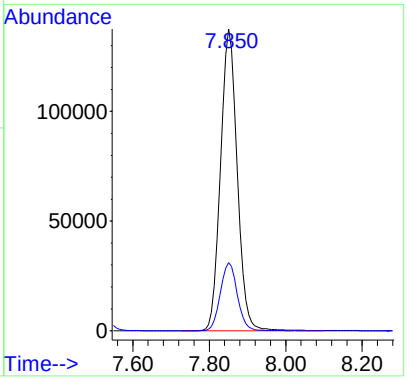


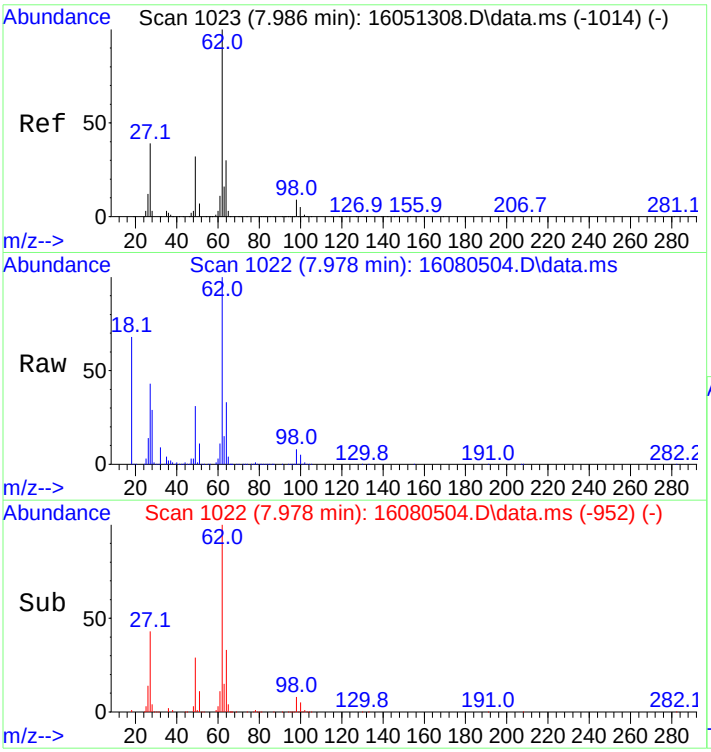


#23
Benzene
Concen: 239.25 ng
RT: 7.850 min Scan# 1005
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 78 Resp: 417473

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

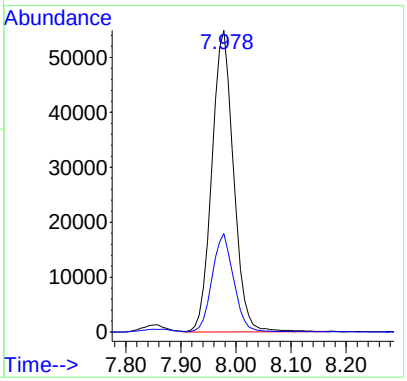


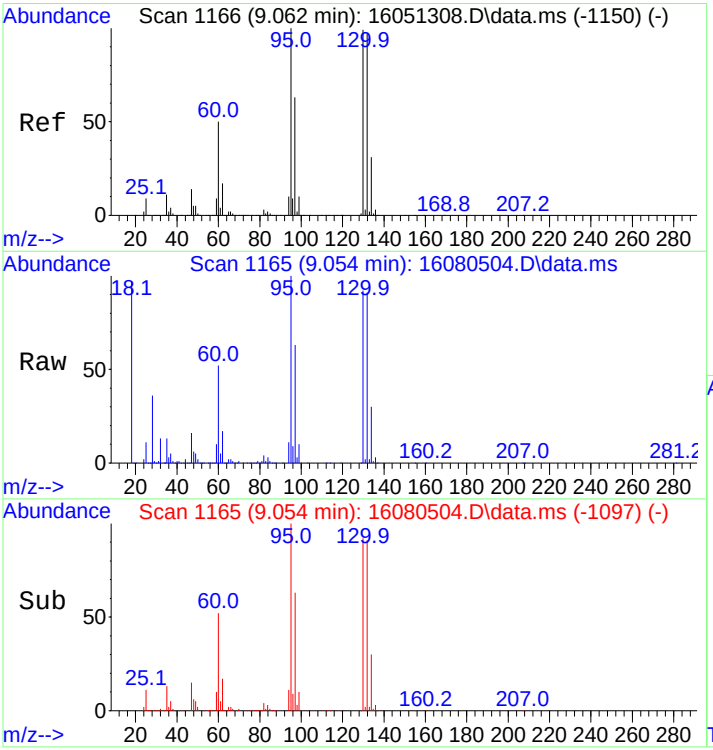


#24
1,2-Dichloroethane
Concen: 301.42 ng
RT: 7.978 min Scan# 1022
Delta R.T. 0.030 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 62 Resp: 150560

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.8	37.2

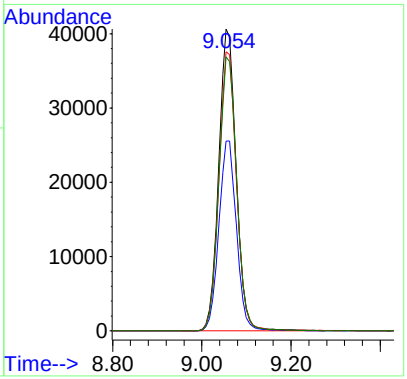


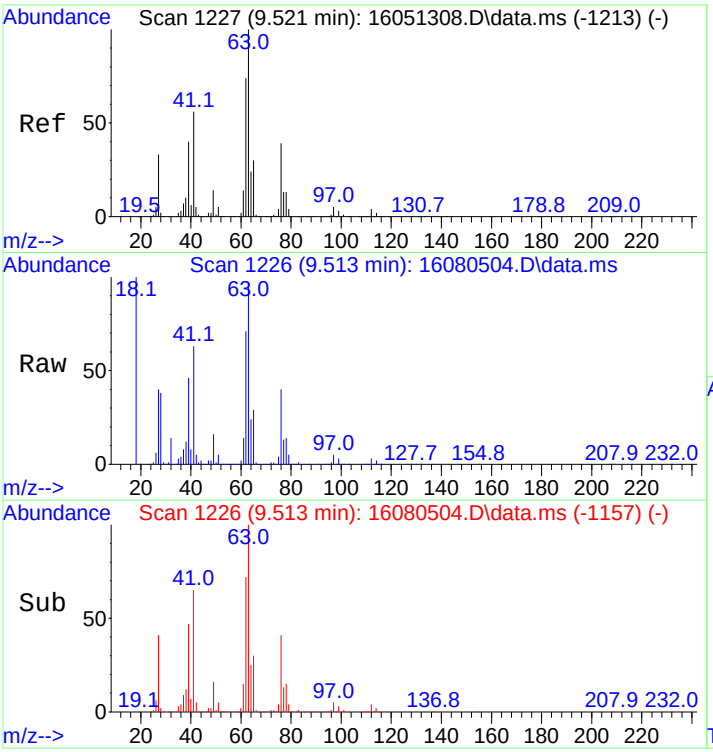


#25
Trichloroethene
Concen: 282.04 ng
RT: 9.054 min Scan# 1165
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 95 Resp: 110332

Ion	Ratio	Lower	Upper
95	100		
97	63.3	51.8	77.8
130	92.9	81.9	122.9
132	92.2	81.2	121.8

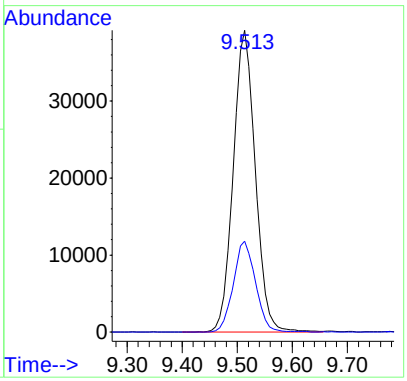


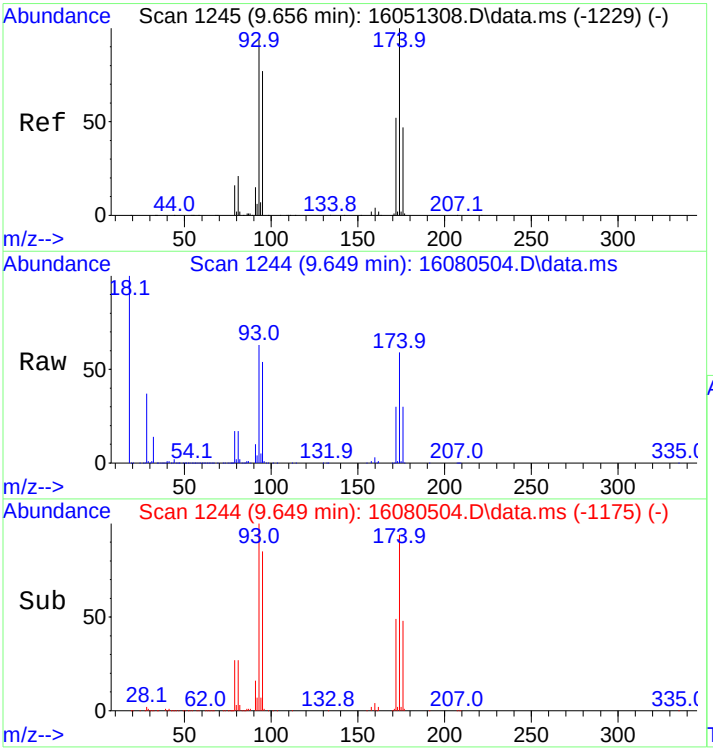


#26
1,2-Dichloropropane
Concen: 271.64 ng
RT: 9.513 min Scan# 1226
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 63 Resp: 108646

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.2	36.2

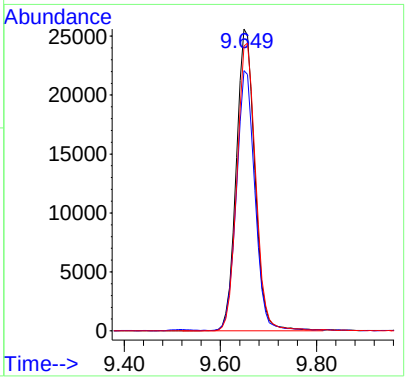


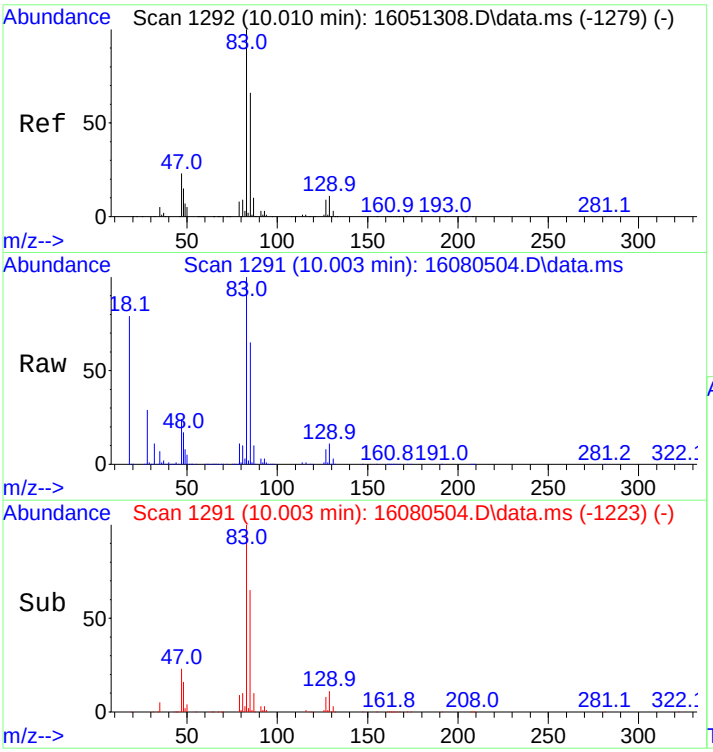


#27
Dibromomethane
Concen: 307.58 ng
RT: 9.649 min Scan# 1244
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 93 Resp: 68908

Ion	Ratio	Lower	Upper
93	100		
95	85.3	65.5	98.3
174	95.7	85.5	128.3

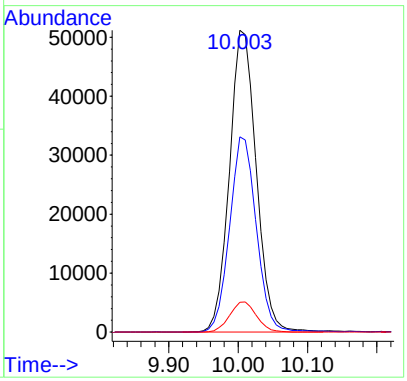


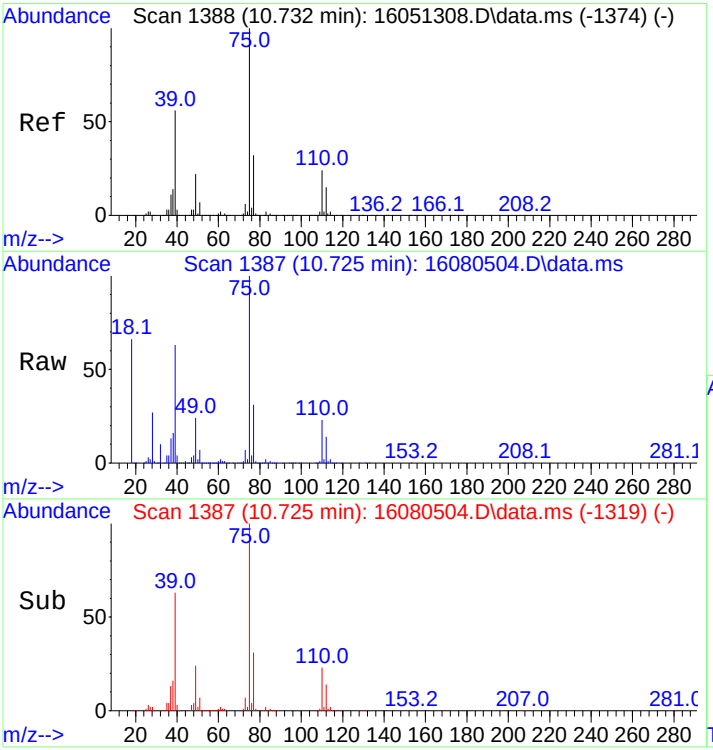


#28
Bromodichloromethane
Concen: 315.23 ng
RT: 10.003 min Scan# 1291
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 137287

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.5	78.7
87	10.0	8.3	12.5

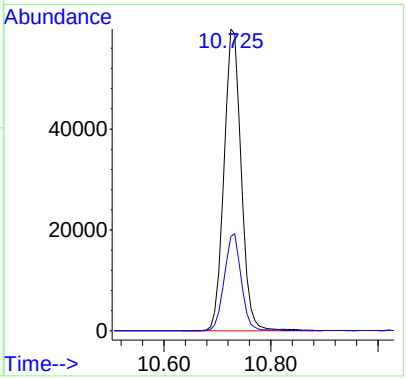


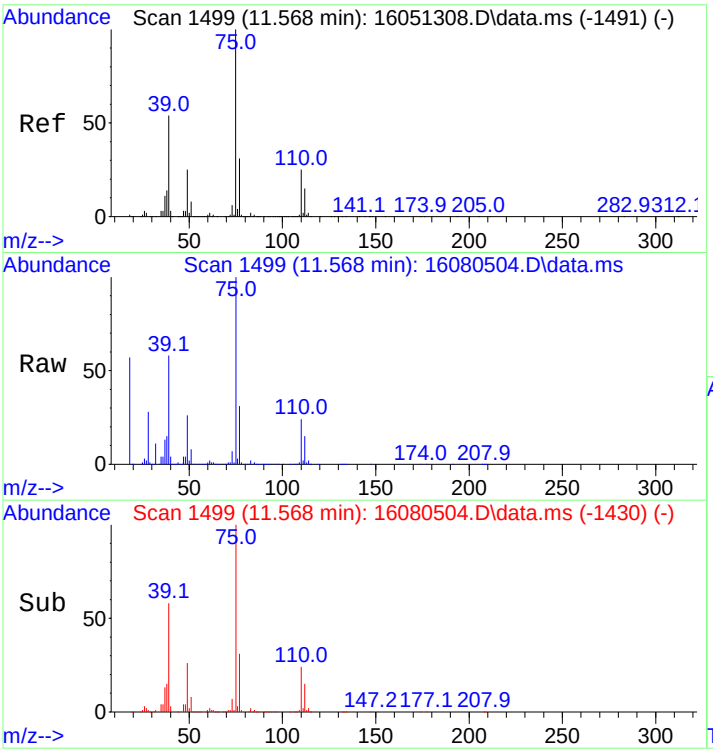


#29
cis,1,3-Dichloropropene
Concen: 299.87 ng
RT: 10.725 min Scan# 1387
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 133789

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4

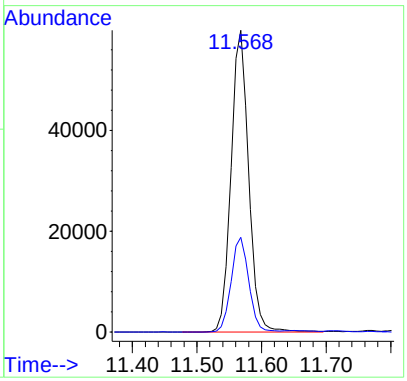


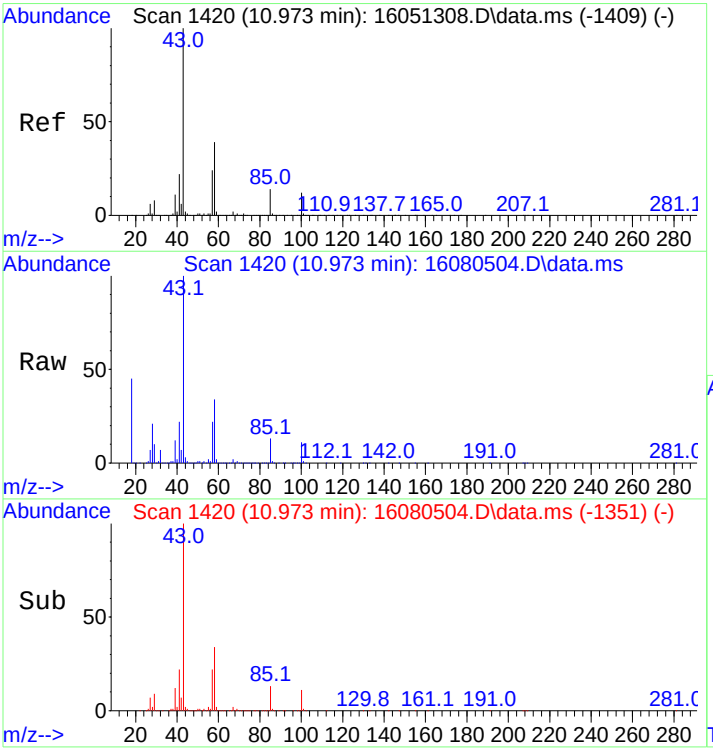


#30
trans,1,3-Dichloropropene
Concen: 374.11 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 113527

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.0	39.0

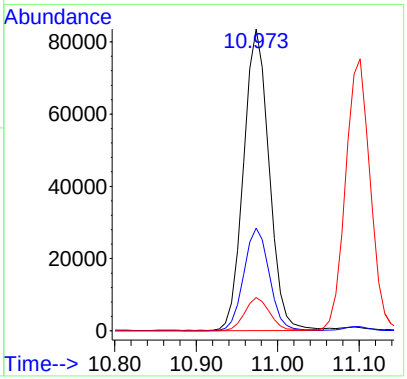


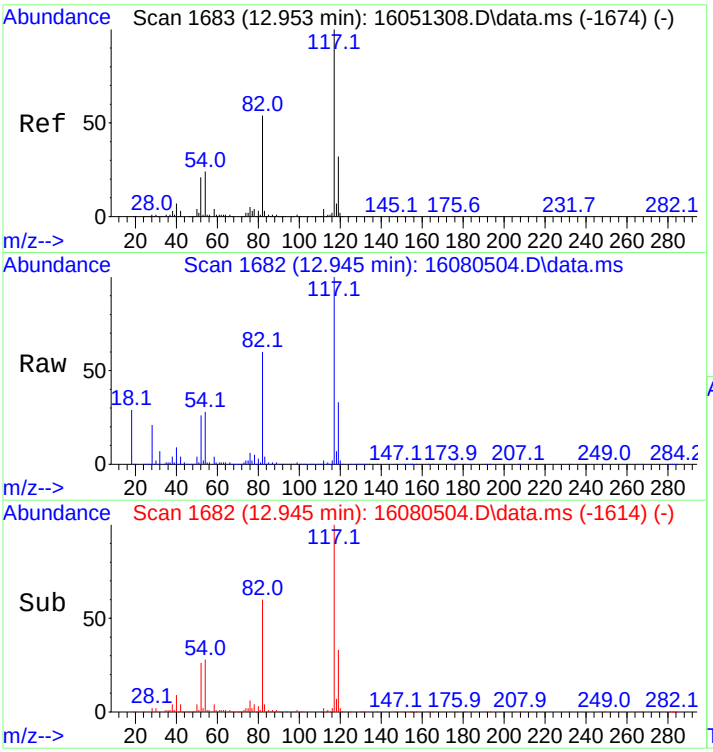


#31
4-Methyl-2-Pentanone
Concen: 309.01 ng
RT: 10.973 min Scan# 1420
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 182004

Ion	Ratio	Lower	Upper
43	100		
58	34.3	31.3	46.9
100	10.9	10.2	15.2

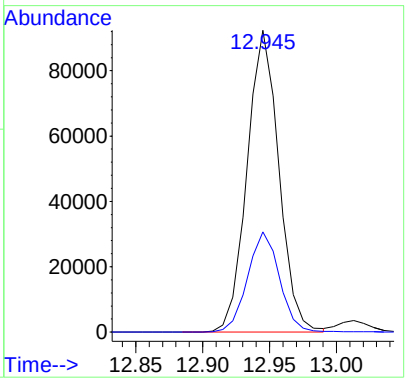


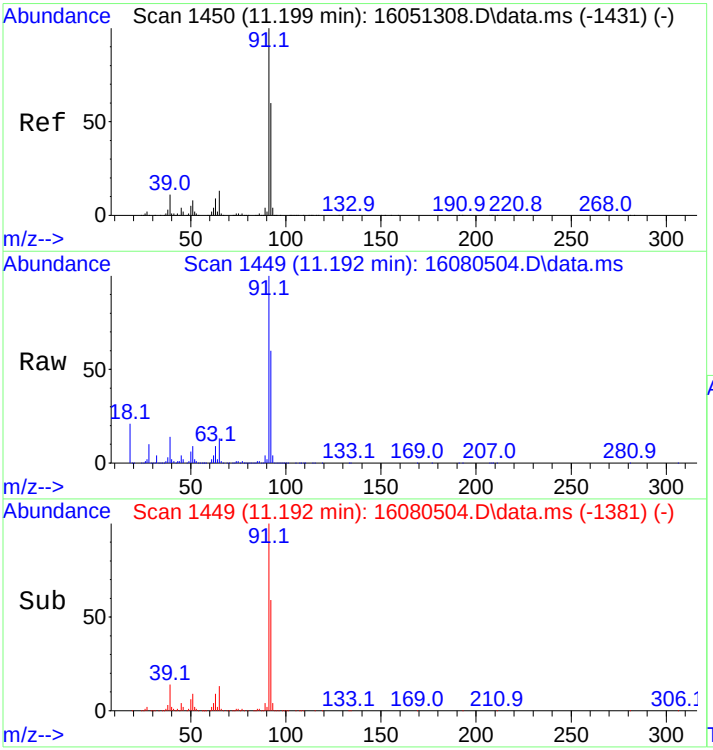


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.945 min Scan# 1682
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:117 Resp: 152948

Ion	Ratio	Lower	Upper
117	100		
119	33.4	25.8	38.8

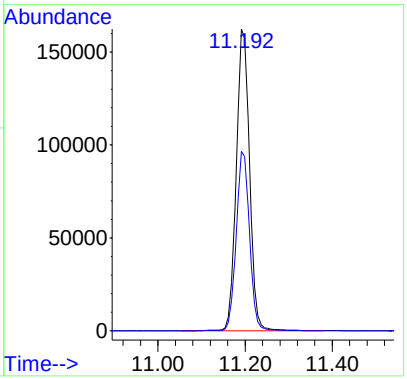


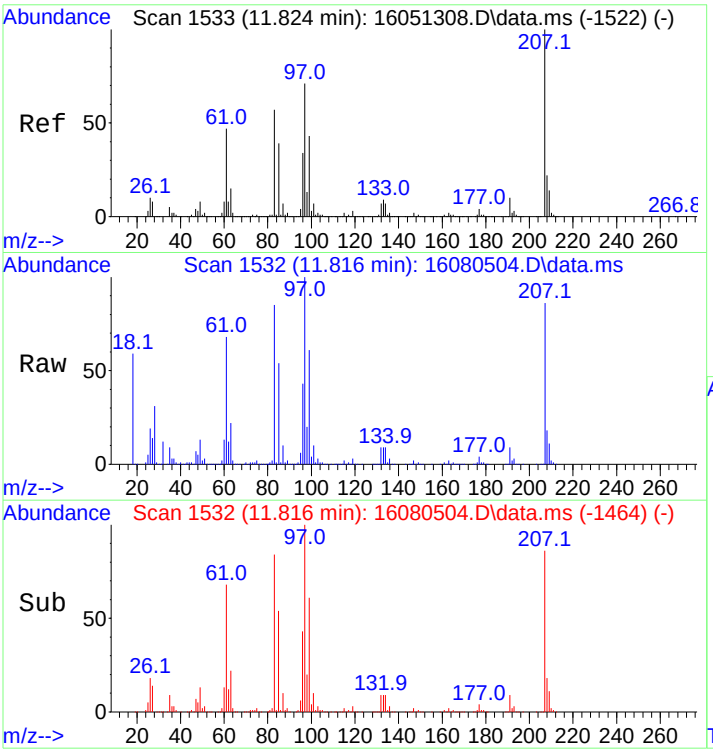


#33
Toluene
Concen: 226.60 ng
RT: 11.192 min Scan# 1449
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 343761

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.6	73.0

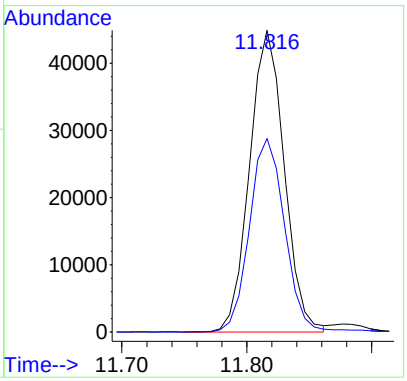


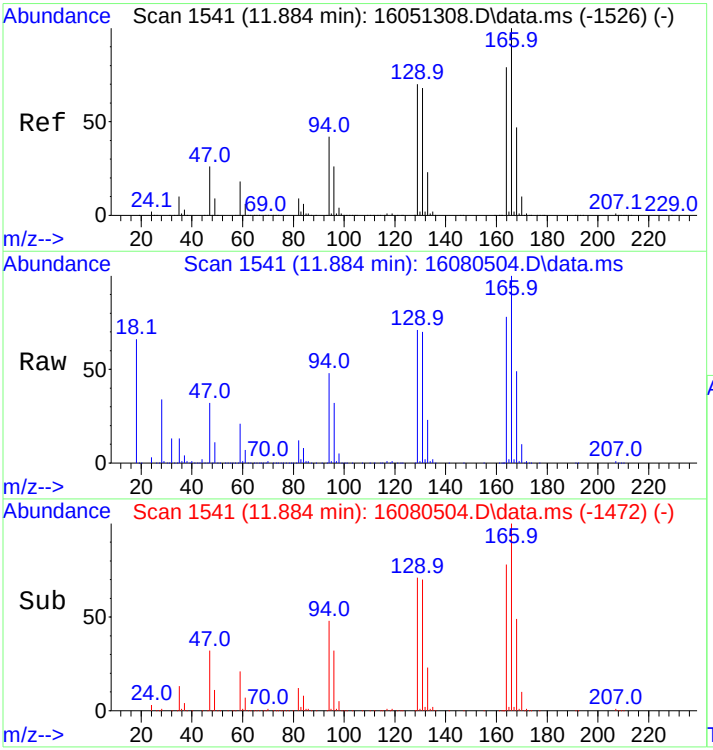


#34
1,1,2-Trichloroethane
Concen: 330.88 ng
RT: 11.816 min Scan# 1532
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 86749

Ion	Ratio	Lower	Upper
83	100		
85	65.3	54.7	82.1

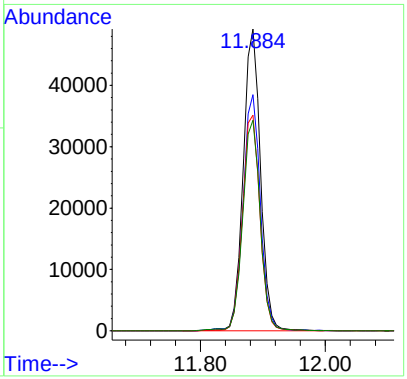


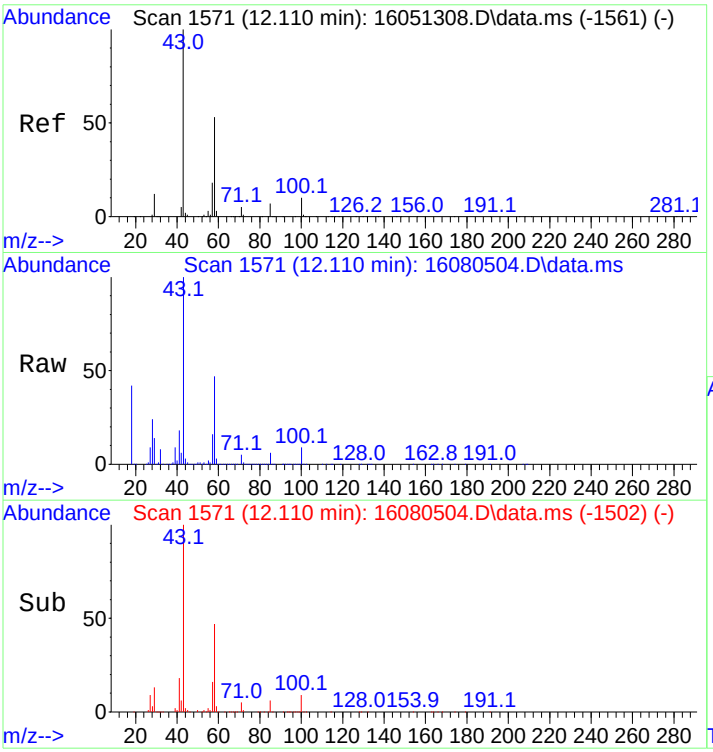


#35
Tetrachloroethene
Concen: 237.77 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:166 Resp: 94468

Ion	Ratio	Lower	Upper
166	100		
164	79.6	63.2	94.8
129	72.5	55.5	83.3
131	71.4	55.2	82.8

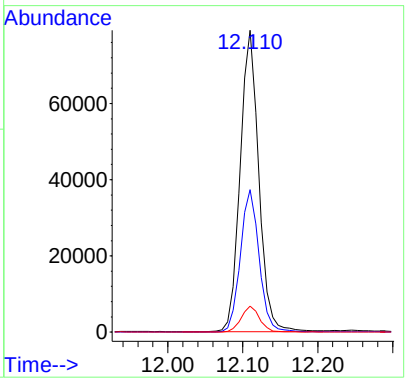


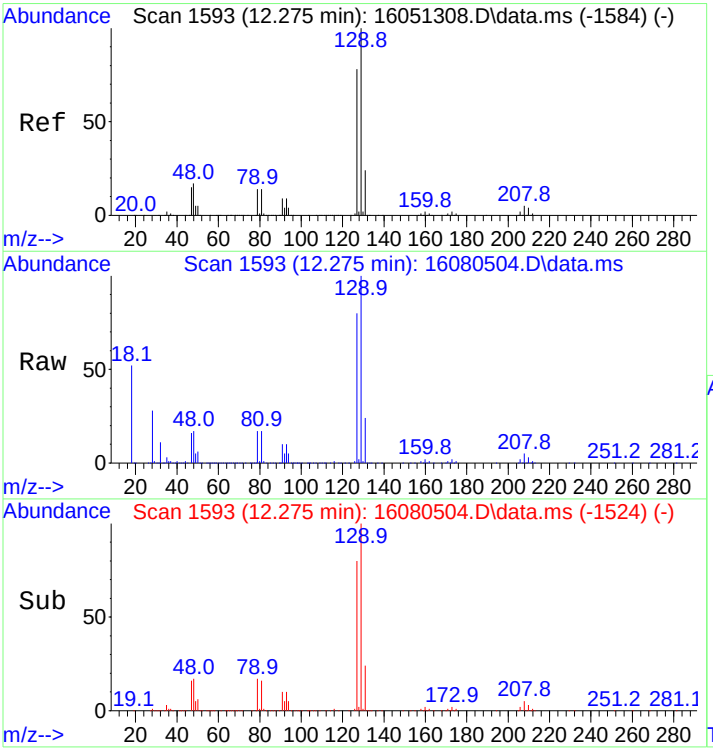


#36
2-Hexanone
Concen: 352.69 ng
RT: 12.110 min Scan# 1571
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 137263

Ion	Ratio	Lower	Upper
43	100		
58	47.7	43.6	65.4
100	8.6	7.8	11.8

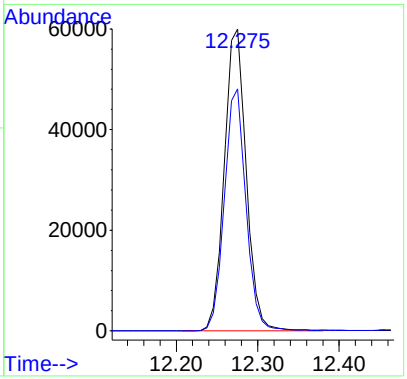


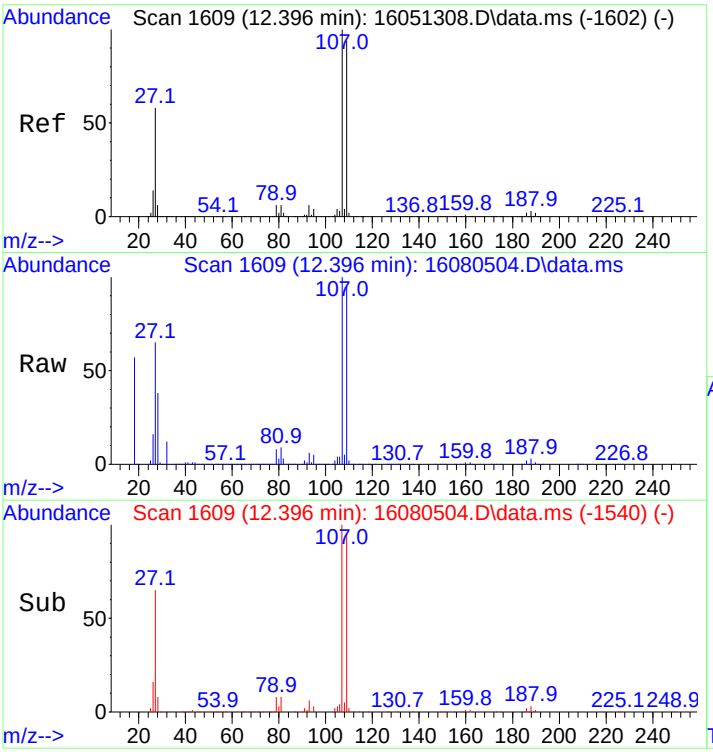


#37
Chlorodibromomethane
Concen: 317.65 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:129 Resp: 112957

Ion	Ratio	Lower	Upper
129	100		
127	79.0	62.3	93.5

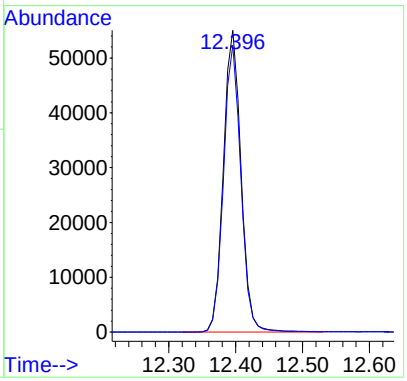


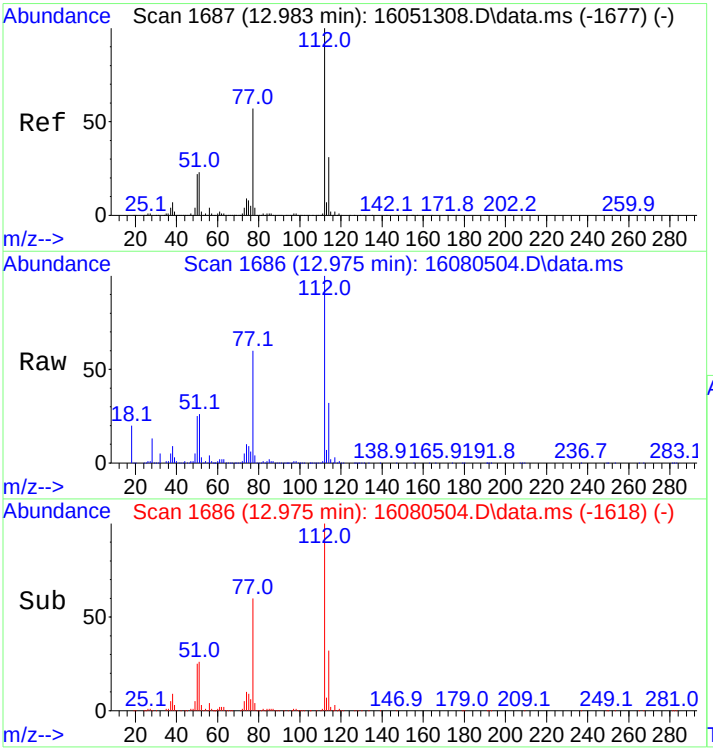


#38
Ethylene Dibromide
Concen: 310.42 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:107 Resp: 100760

Ion	Ratio	Lower	Upper
107	100		
109	93.4	74.3	111.5

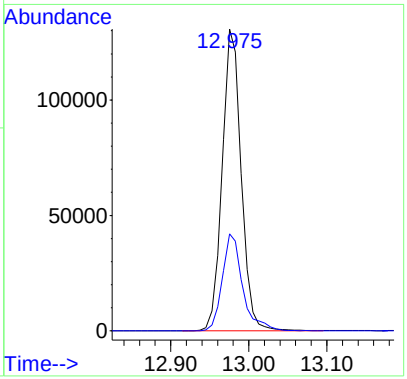


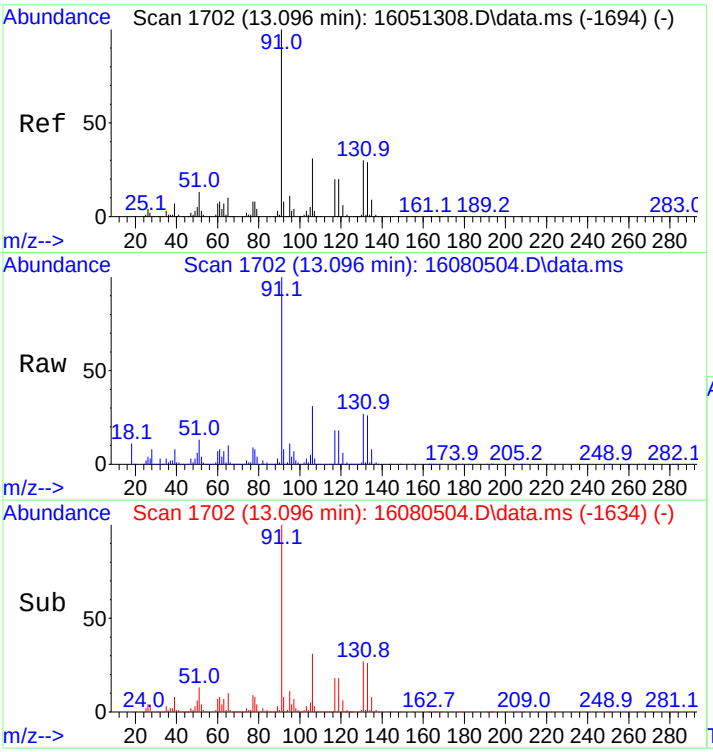


#39
Chlorobenzene
Concen: 237.10 ng
RT: 12.975 min Scan# 1686
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:112 Resp: 221022

Ion	Ratio	Lower	Upper
112	100		
114	34.6	27.5	41.3

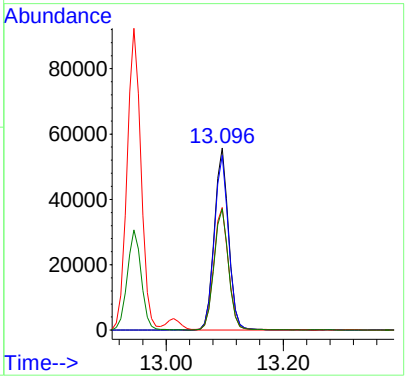


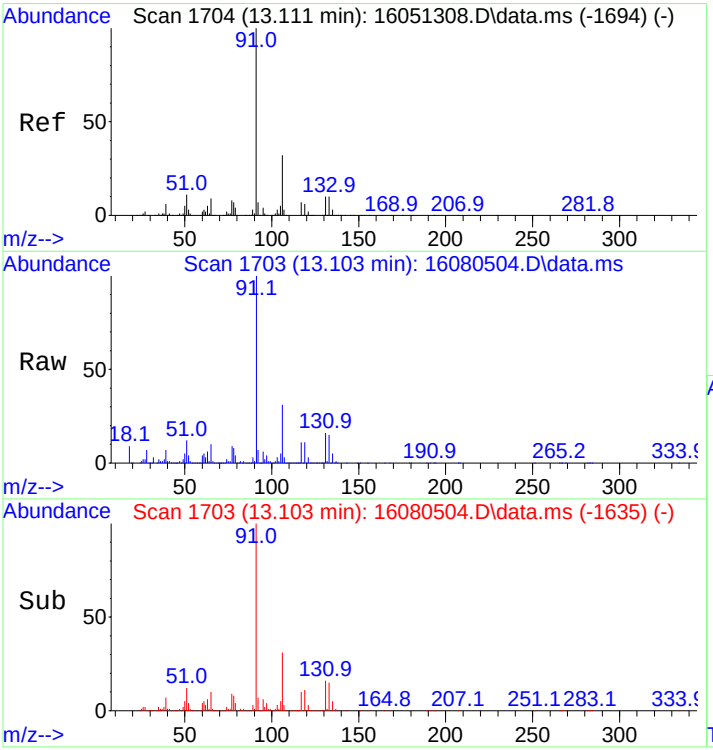


#40
1,1,1,2-Tetrachloroethane
Concen: 285.97 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:131 Resp: 94610

Ion	Ratio	Lower	Upper
131	100		
133	95.9	77.8	116.6
117	68.8	57.1	85.7
119	67.6	54.3	81.5

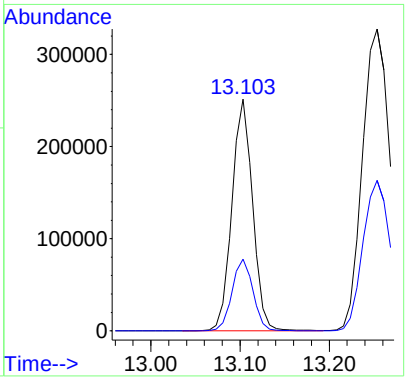


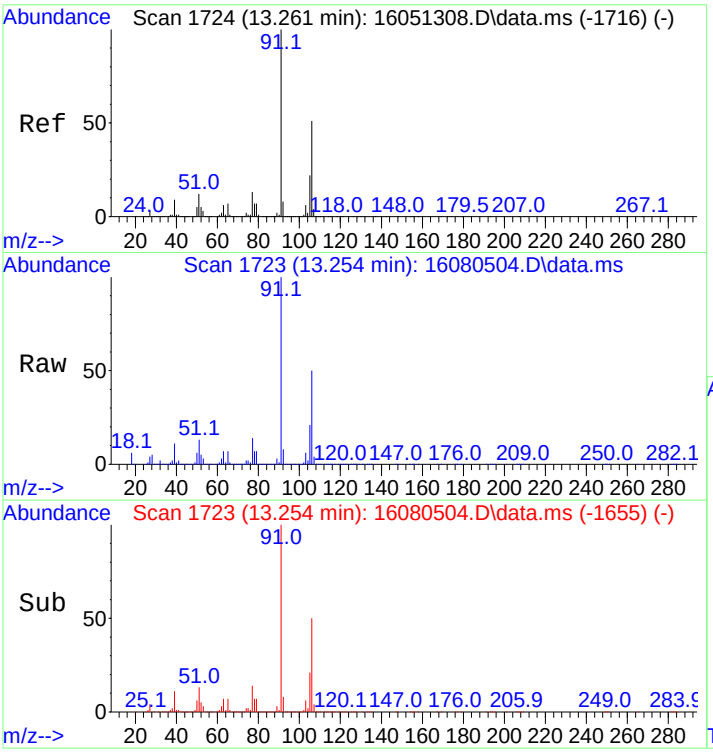


#41
Ethylbenzene
Concen: 235.53 ng
RT: 13.103 min Scan# 1703
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 405926

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.5	38.3

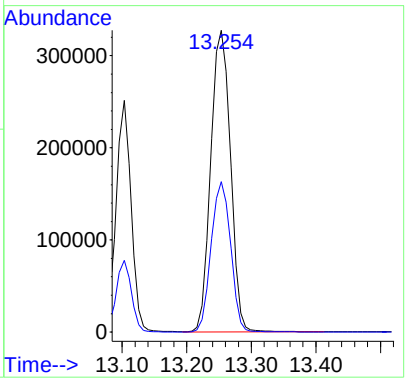


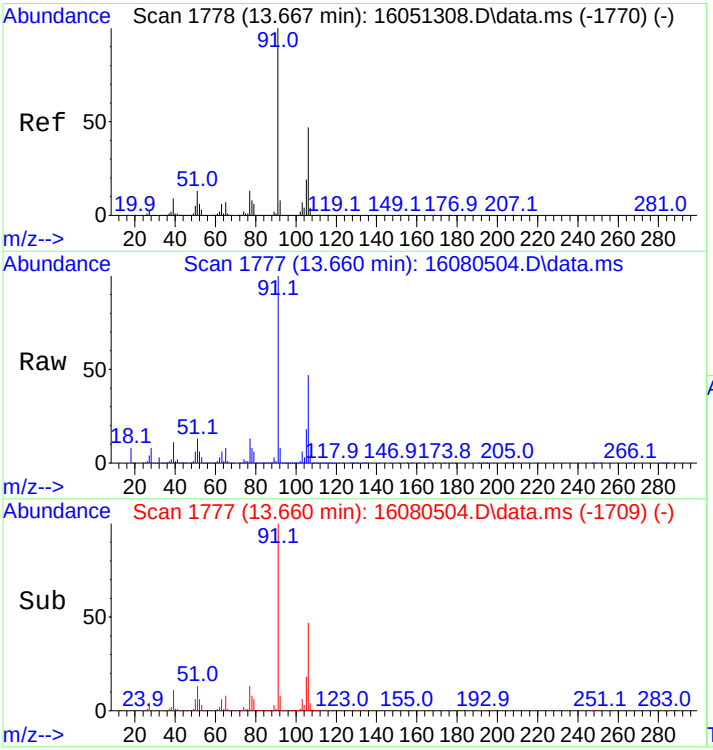


#42
M&P-Xylene
Concen: 476.50 ng
RT: 13.254 min Scan# 1723
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 698367

Ion	Ratio	Lower	Upper
91	100		
106	49.1	40.4	60.6

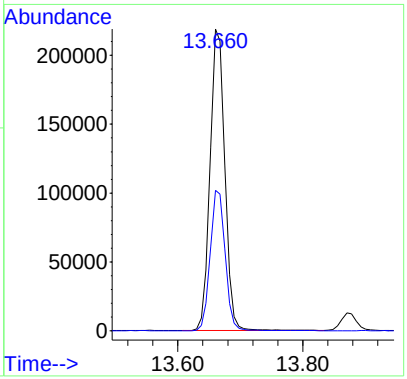


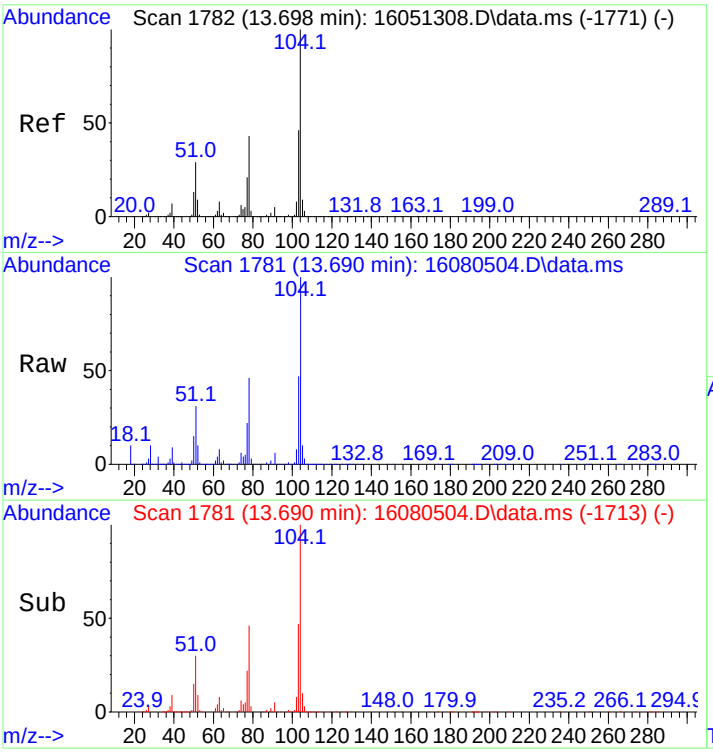


#43
O-Xylene
Concen: 237.25 ng
RT: 13.660 min Scan# 1777
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 360446

Ion	Ratio	Lower	Upper
91	100		
106	47.2	38.2	57.2

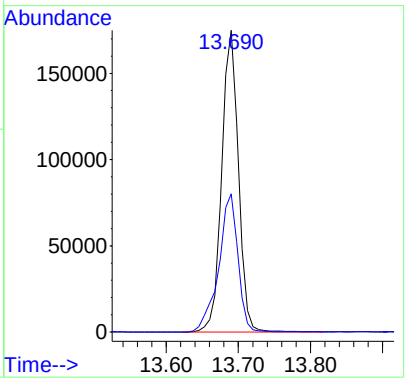


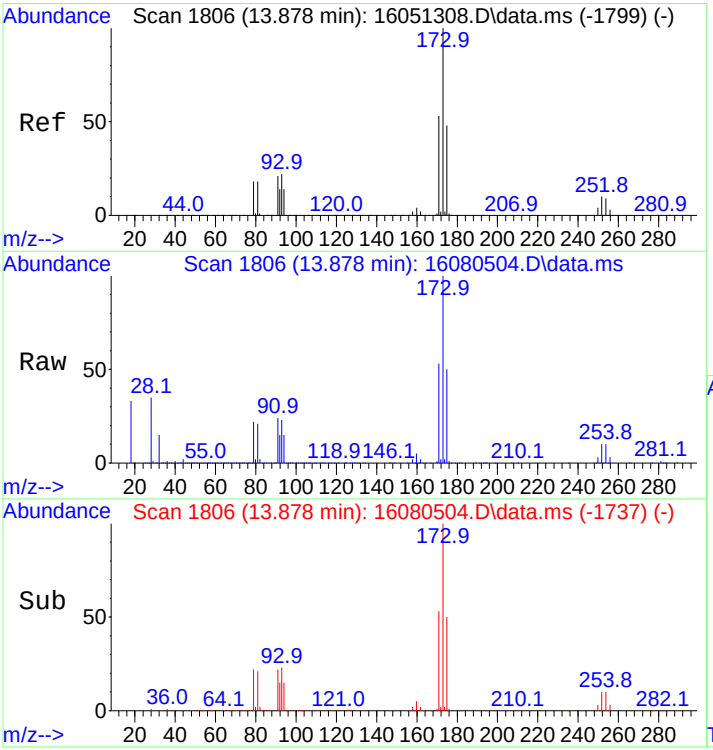


#44
Styrene
Concen: 217.32 ng
RT: 13.690 min Scan# 1781
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:104 Resp: 281827

Ion	Ratio	Lower	Upper
104	100		
78	53.0	39.8	59.6

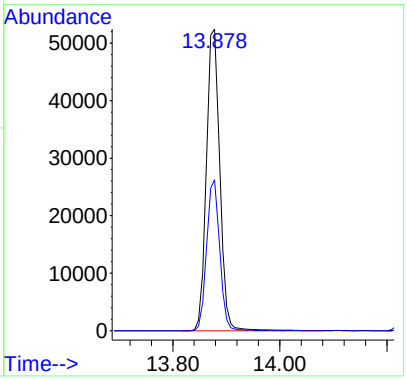


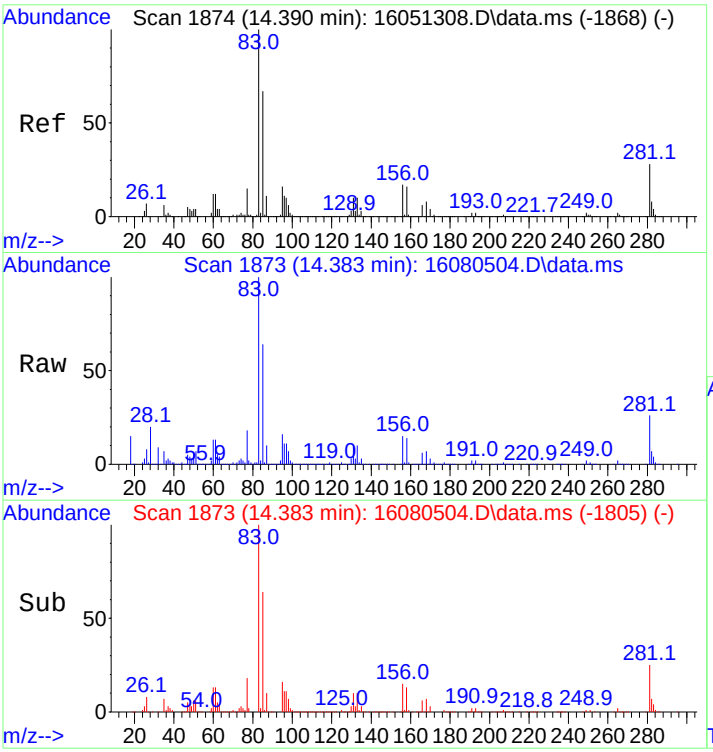


#45
Bromoform
Concen: 327.27 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:173 Resp: 91721

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.5	57.7

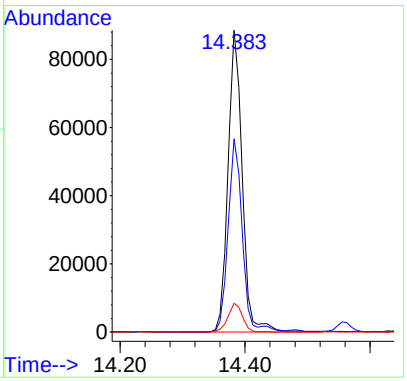


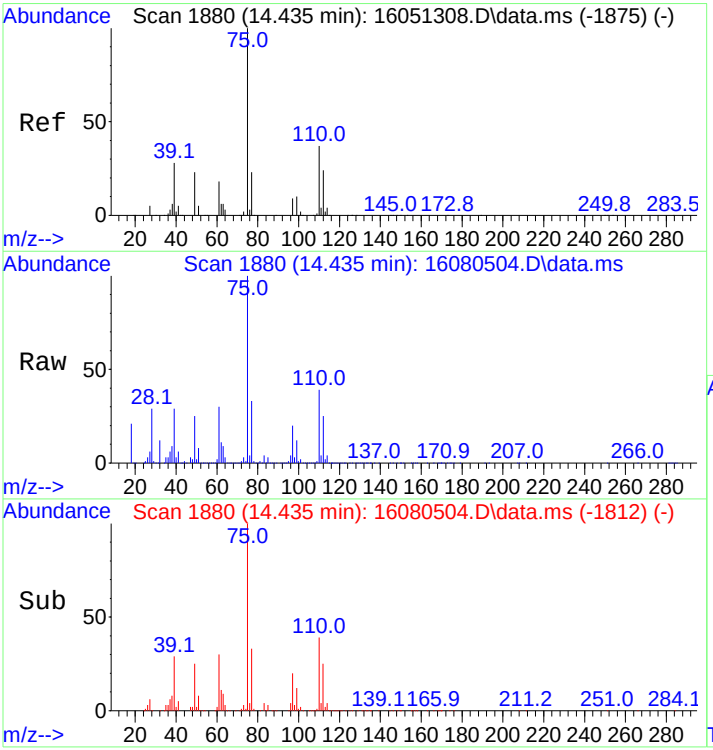


#46
1,1,2,2-Tetrachloroethane
Concen: 317.54 ng
RT: 14.383 min Scan# 1873
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 140643

Ion	Ratio	Lower	Upper
83	100		
85	63.5	53.1	79.7
131	9.9	8.9	13.3

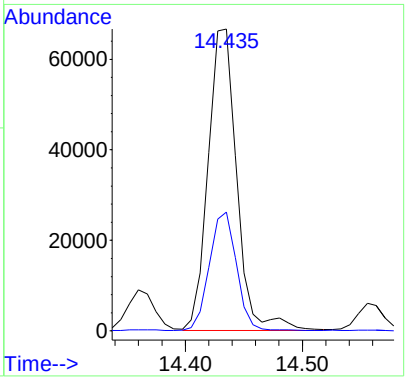


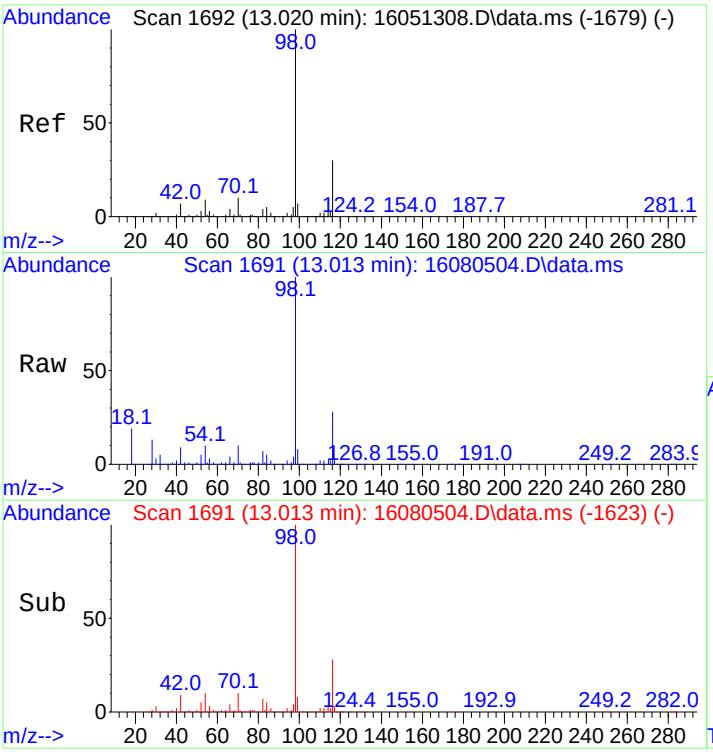


#47
1,2,3-Trichloropropane
Concen: 311.15 ng
RT: 14.435 min Scan# 1880
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 113843

Ion	Ratio	Lower	Upper
75	100		
110	37.5	30.5	45.7

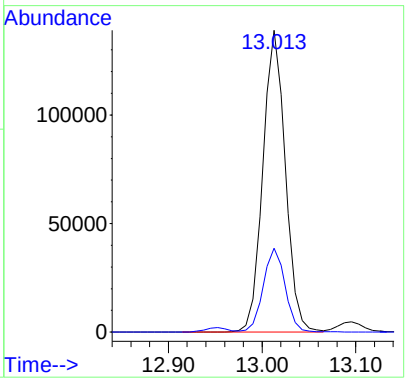


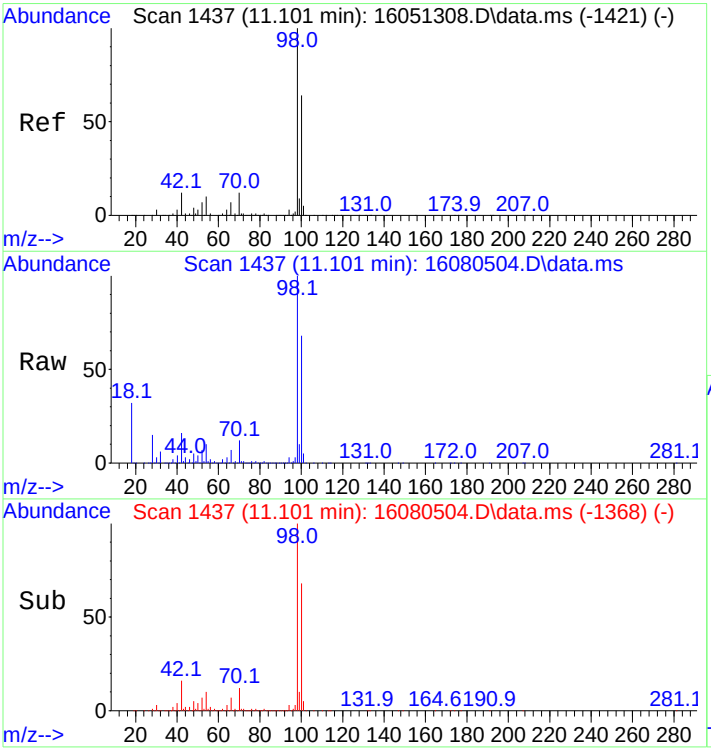


#48
d10-Ethylbenzene(SPK)
Concen: 220.35 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 98 Resp: 231657

Ion	Ratio	Lower	Upper
98	100		
116	27.2	23.4	35.0

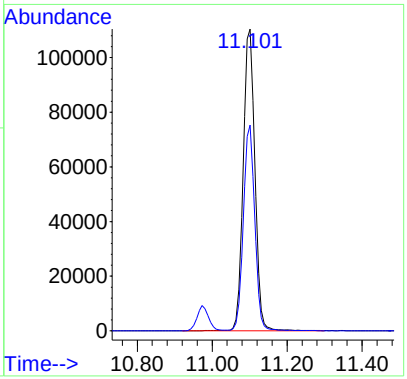


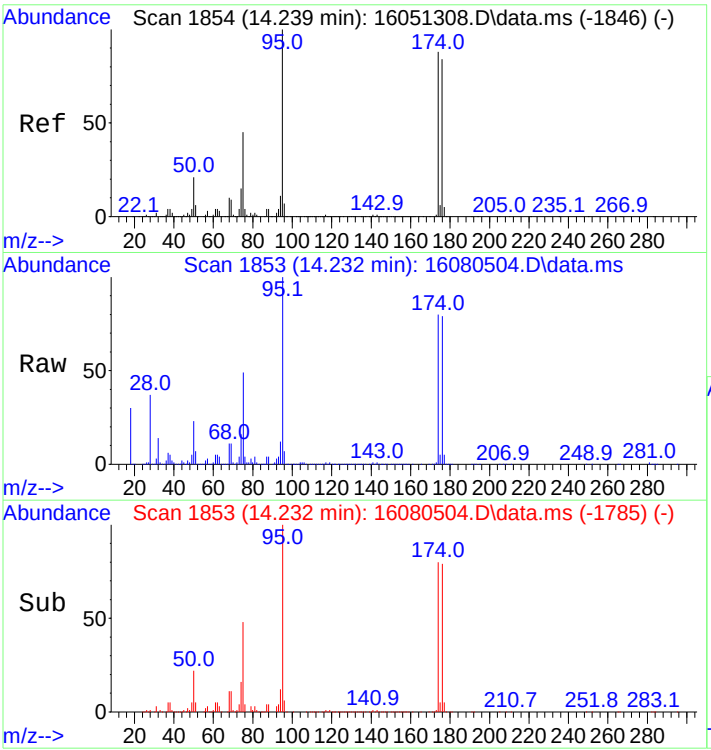


#49
d8-Toluene(SURR)
Concen: 264.80 ng
RT: 11.101 min Scan# 1437
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 98 Resp: 239934

Ion	Ratio	Lower	Upper
98	100		
100	66.6	56.0	84.0

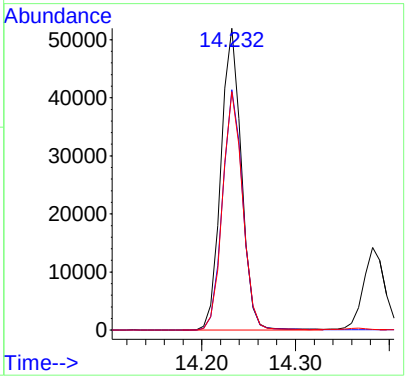


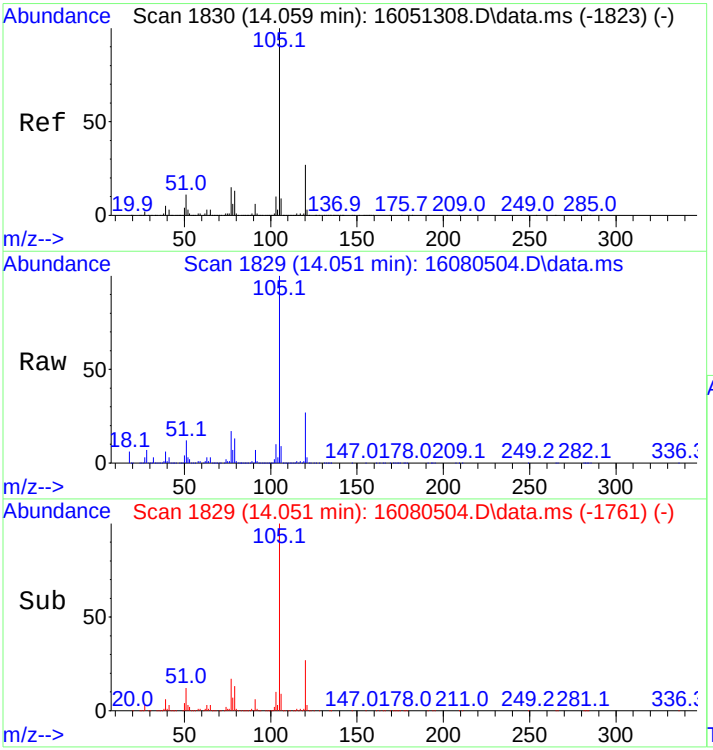


#50
4-Bromofluorobenzene(SURR)
Concen: 261.29 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 95 Resp: 78717

Ion	Ratio	Lower	Upper
95	100		
174	79.0	67.8	101.8
176	78.0	64.8	97.2

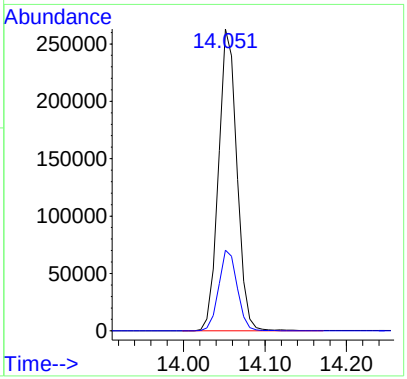


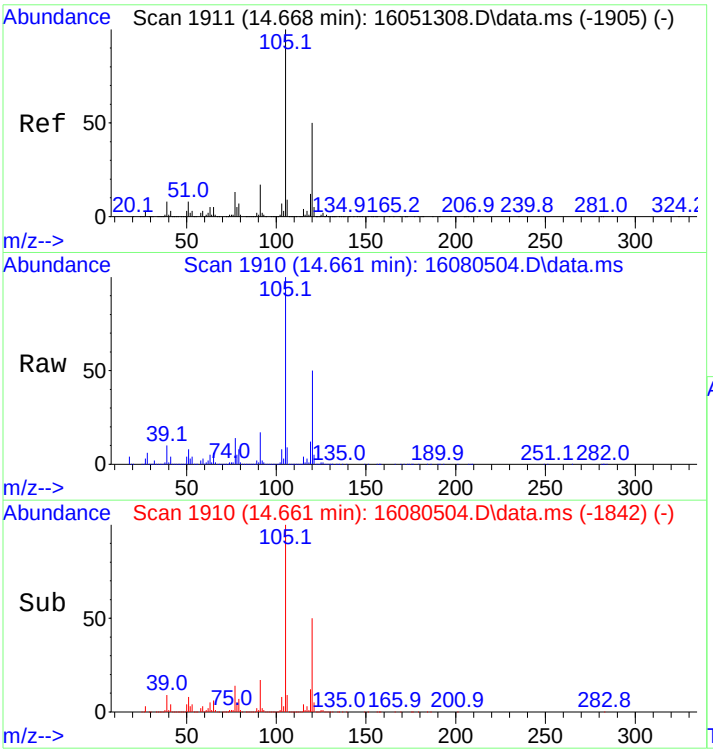


#51
Isopropylbenzene
Concen: 235.27 ng
RT: 14.051 min Scan# 1829
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 415417

Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.4	32.2

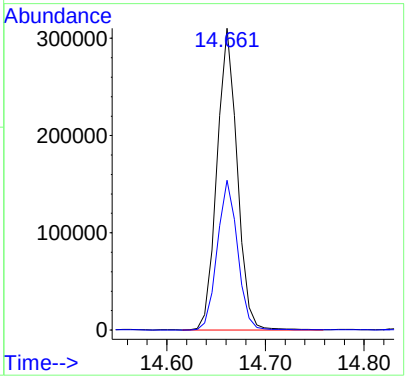


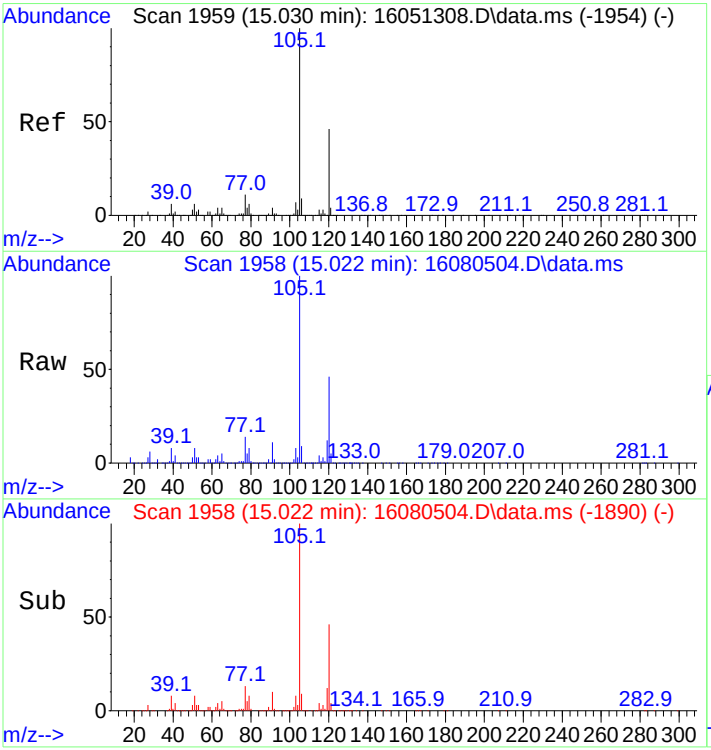


#52
1,3,5-Trimethylbenzene
Concen: 256.50 ng
RT: 14.661 min Scan# 1910
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 441383

Ion	Ratio	Lower	Upper
105	100		
120	49.9	39.9	59.9

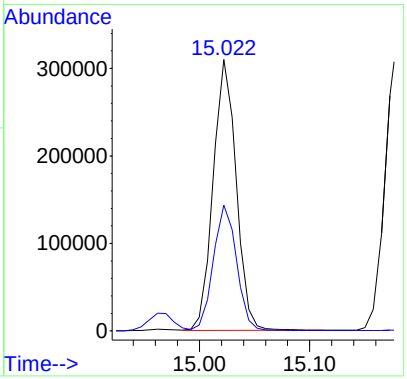


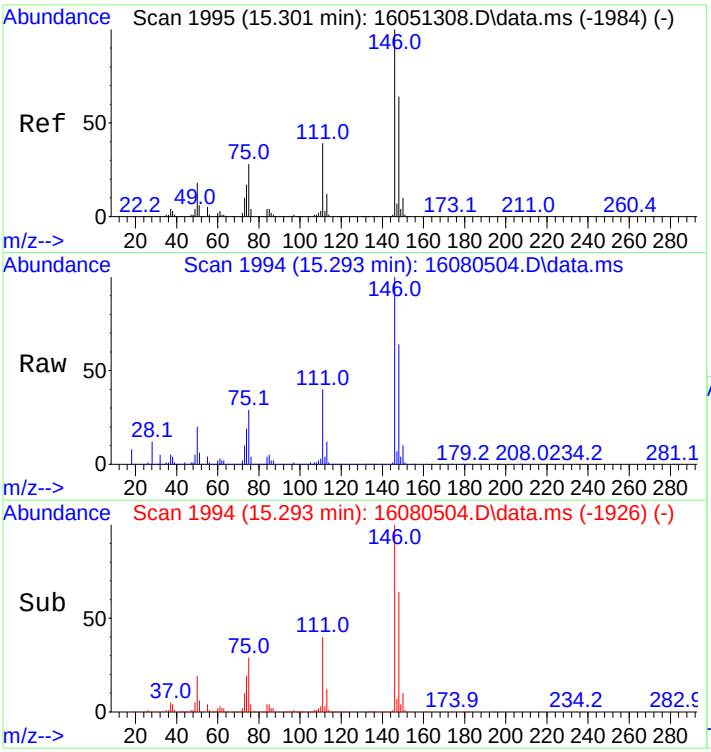


#53
1,2,4-Trimethylbenzene
Concen: 265.64 ng
RT: 15.022 min Scan# 1958
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 451354

Ion	Ratio	Lower	Upper
105	100		
120	46.8	37.5	56.3

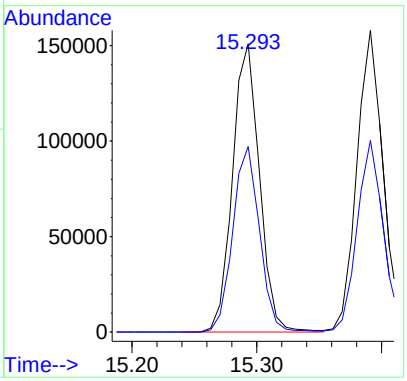


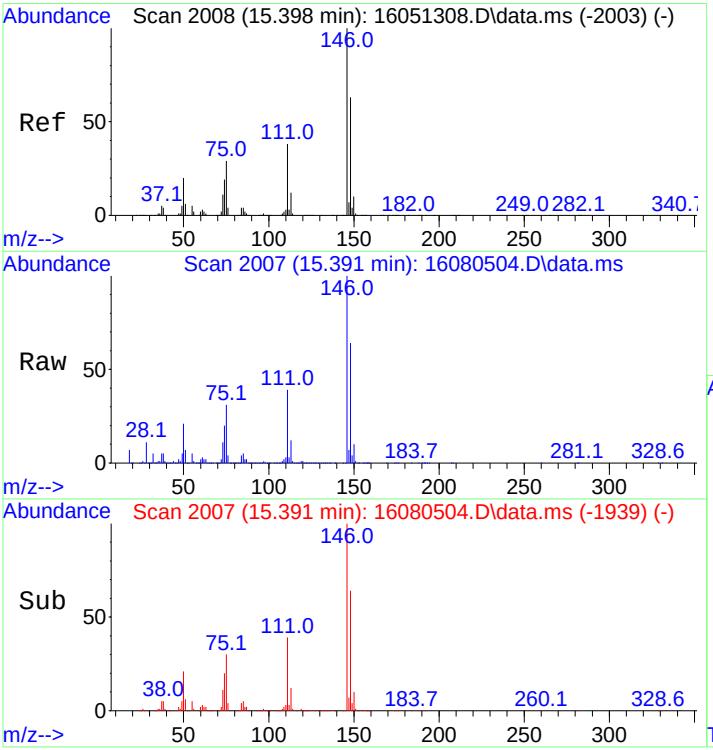


#54
1,3-Dichlorobenzene
Concen: 256.06 ng
RT: 15.293 min Scan# 1994
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:146 Resp: 227059

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.6	76.0

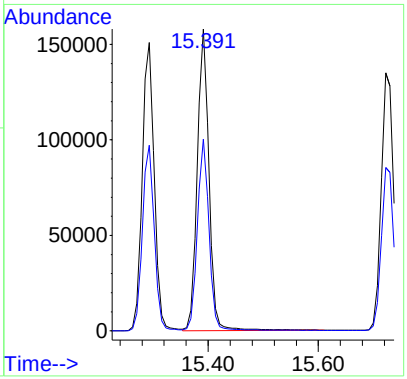


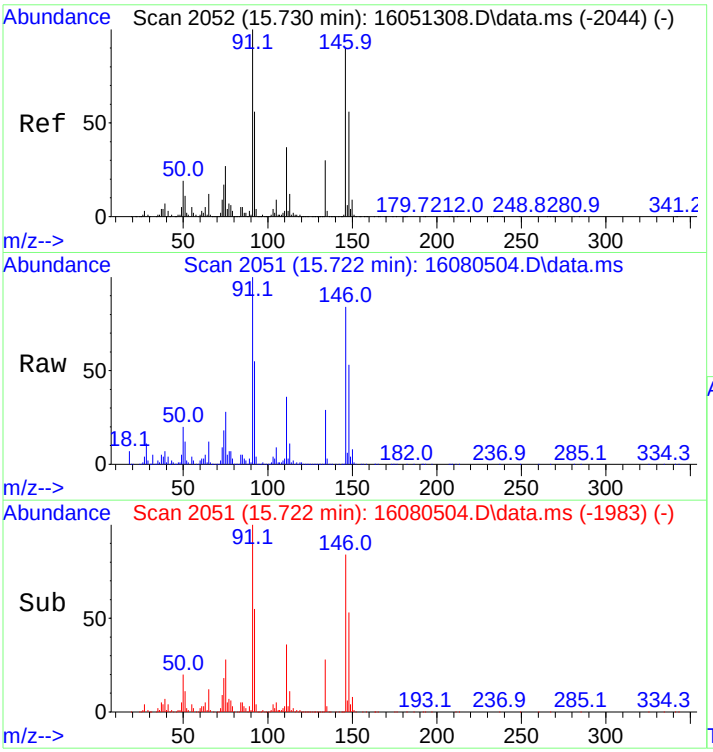


#55
1,4-Dichlorobenzene
Concen: 249.66 ng
RT: 15.391 min Scan# 2007
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:146 Resp: 234002

Ion	Ratio	Lower	Upper
146	100		
148	63.0	49.9	74.9

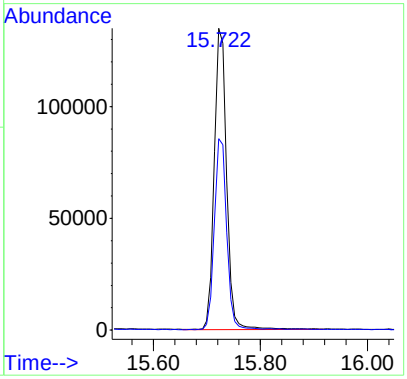


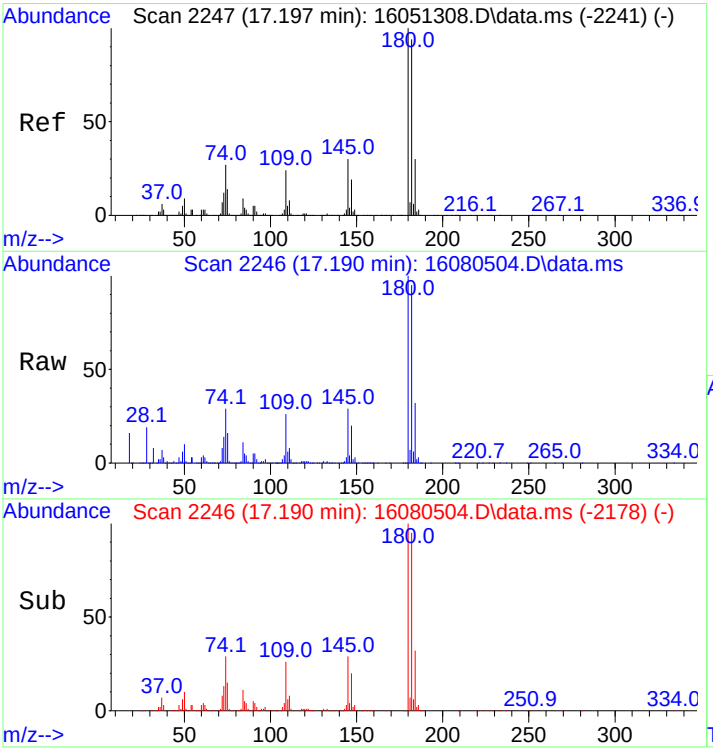


#56
1,2-Dichlorobenzene
Concen: 258.41 ng
RT: 15.722 min Scan# 2051
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:146 Resp: 216727

Ion	Ratio	Lower	Upper
146	100		
148	63.4	49.9	74.9

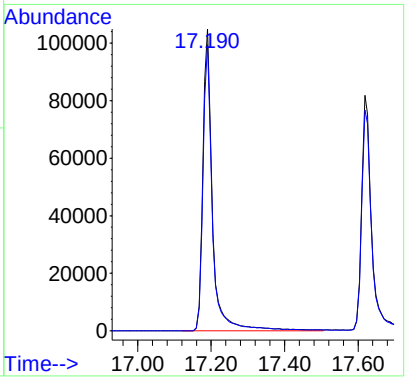


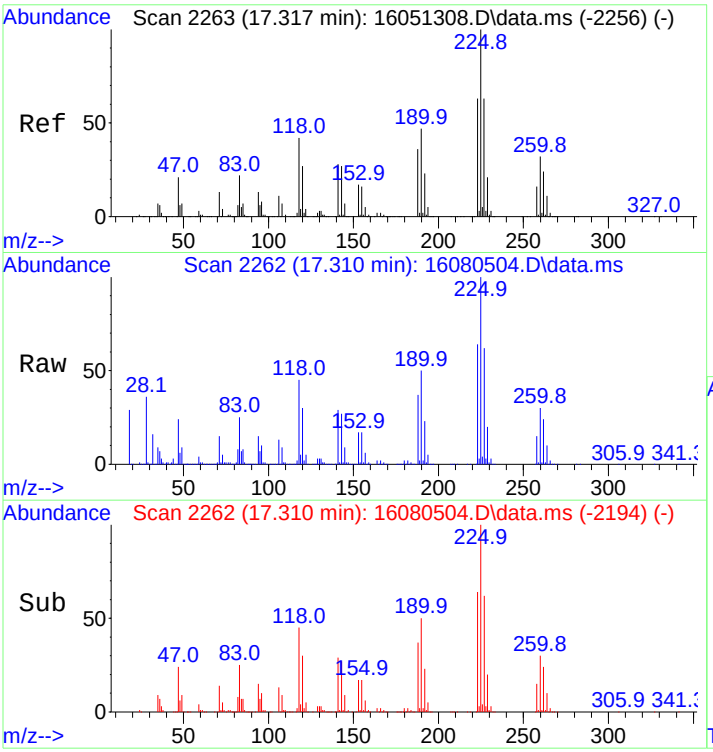


#57
1,2,4-Trichlorobenzene
Concen: 269.11 ng
RT: 17.190 min Scan# 2246
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:180 Resp: 191432

Ion	Ratio	Lower	Upper
180	100		
182	93.0	75.0	112.4

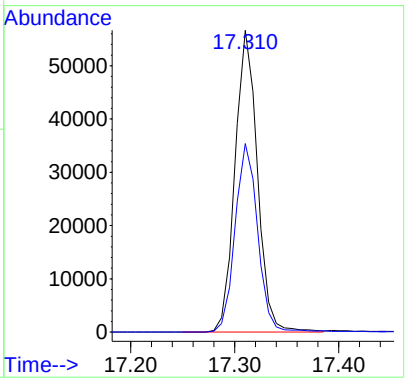


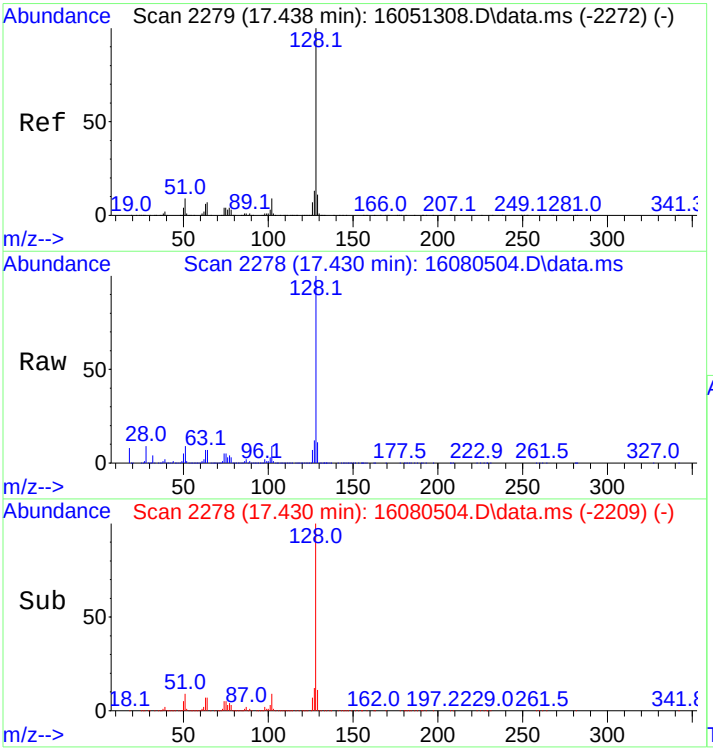


#58
Hexachlorobutadiene
Concen: 226.18 ng
RT: 17.310 min Scan# 2262
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:225 Resp: 84570

Ion	Ratio	Lower	Upper
225	100		
227	63.1	51.1	76.7

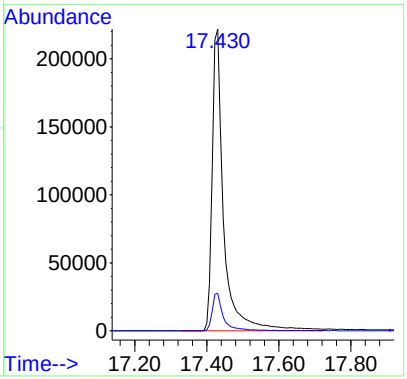


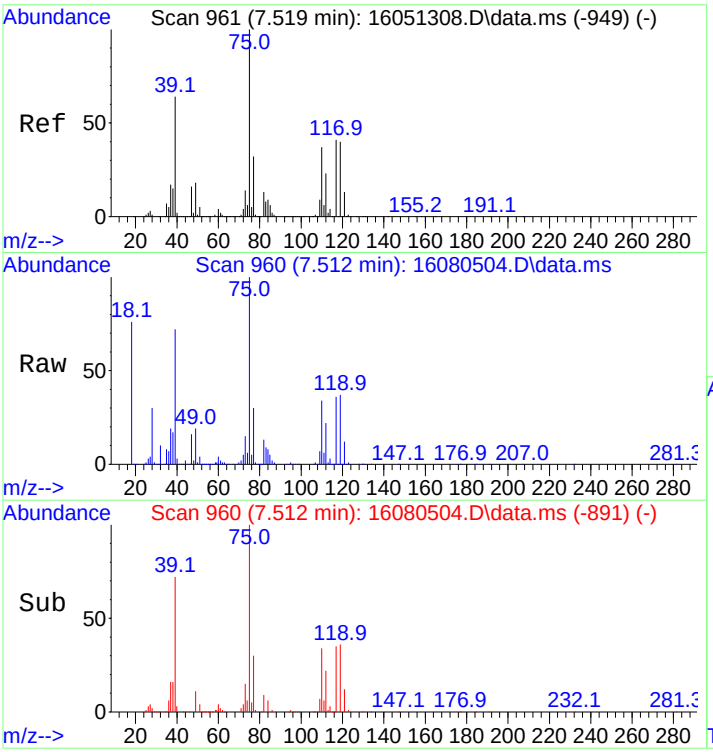


#59
Naphthalene
Concen: 282.44 ng
RT: 17.430 min Scan# 2278
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:128 Resp: 493148

Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.8	14.8

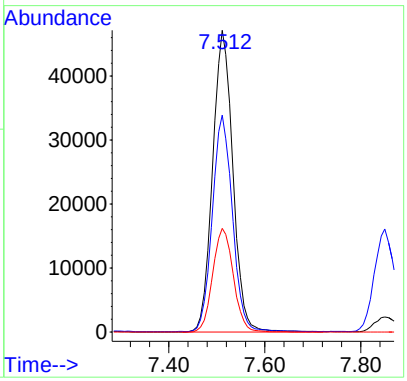


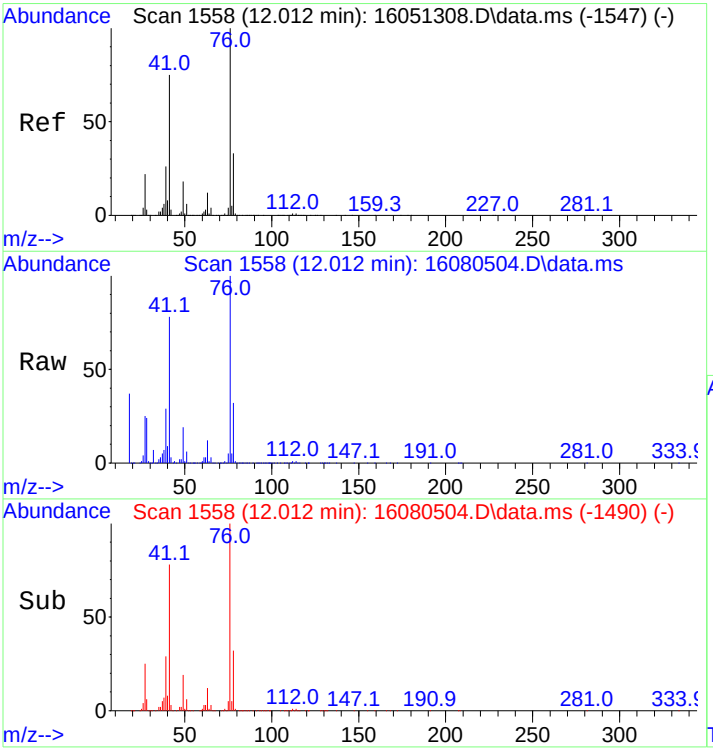


#60
1,1-Dichloropropene
Concen: 283.82 ng
RT: 7.512 min Scan# 960
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 137965

Ion	Ratio	Lower	Upper
75	100		
39	71.4	51.8	77.6
110	35.0	29.3	43.9

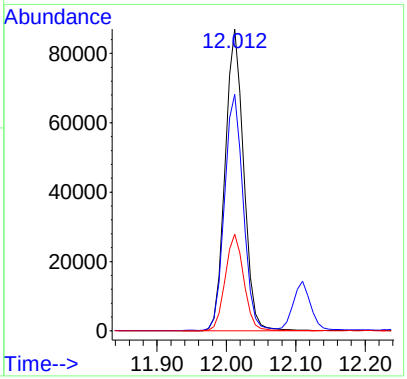


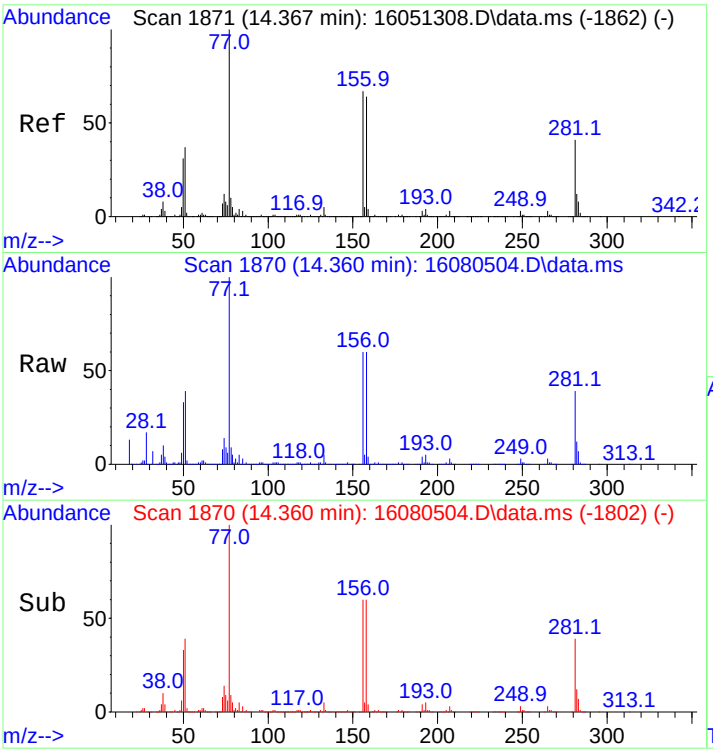


#61
1,3-Dichloropropane
Concen: 297.56 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 76 Resp: 161328

Ion	Ratio	Lower	Upper
76	100		
41	79.1	58.2	87.4
78	32.2	26.1	39.1

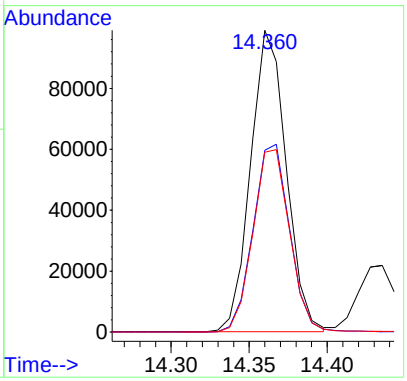


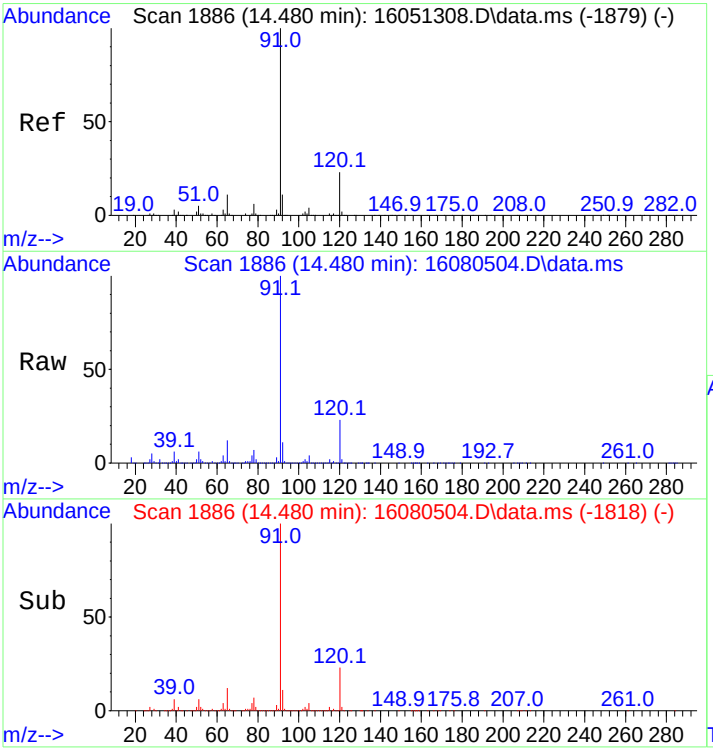


#62
Bromobenzene
Concen: 249.58 ng
RT: 14.360 min Scan# 1870
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 77 Resp: 156832

Ion	Ratio	Lower	Upper
77	100		
156	64.3	55.0	82.4
158	62.9	53.3	79.9

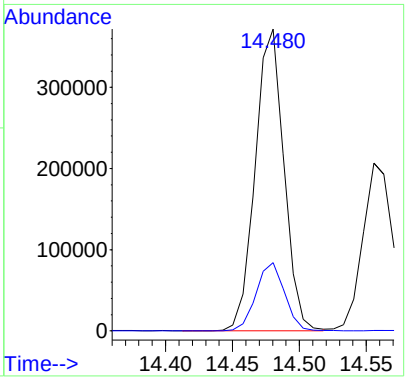


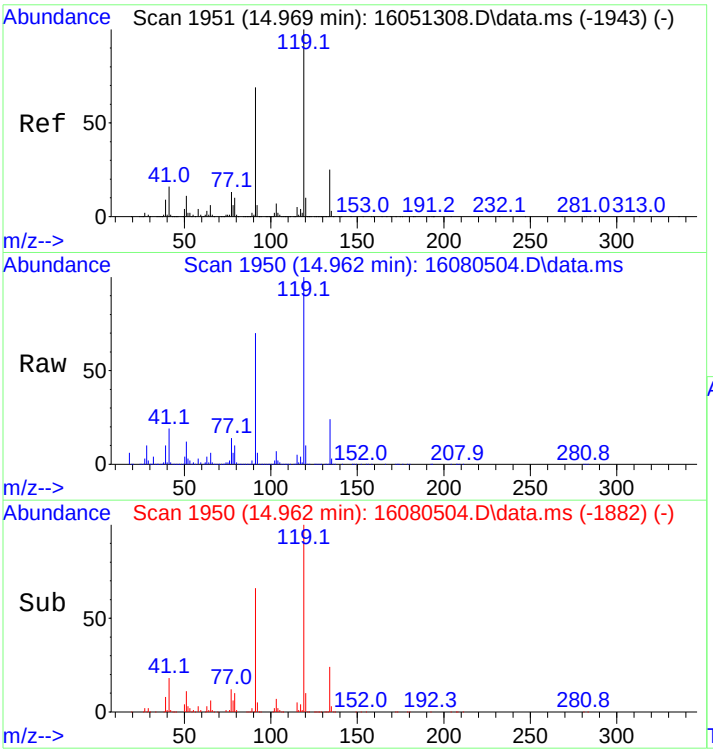


#63
n-Propylbenzene
Concen: 249.36 ng
RT: 14.480 min Scan# 1886
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 557203

Ion	Ratio	Lower	Upper
91	100		
120	22.5	18.6	28.0

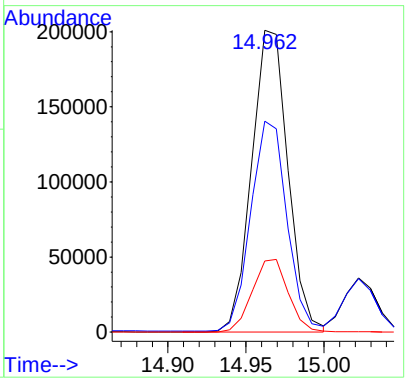


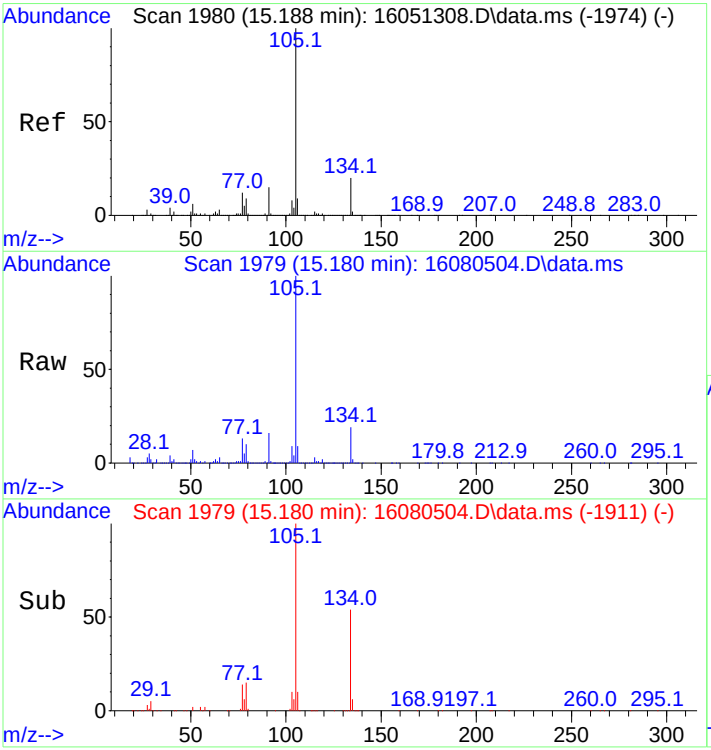


#64
tert-Butylbenzene
Concen: 243.51 ng
RT: 14.962 min Scan# 1950
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:119 Resp: 325728

Ion	Ratio	Lower	Upper
119	100		
91	69.3	54.0	81.0
134	24.0	19.9	29.9

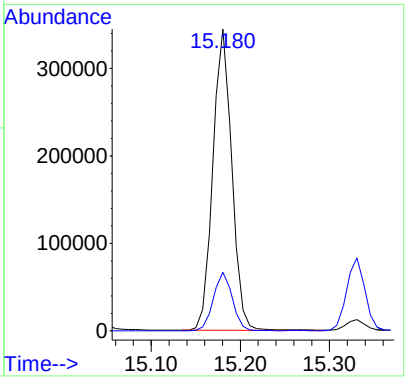


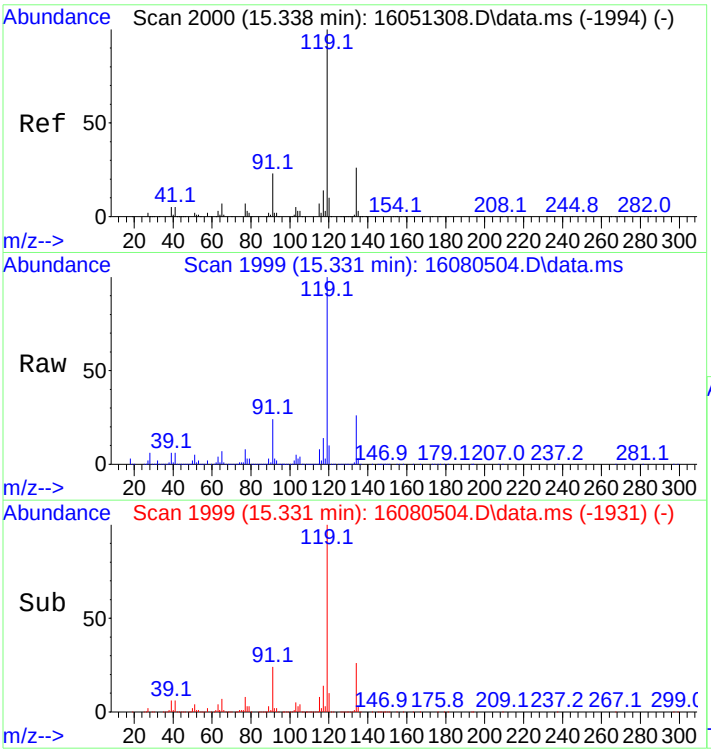


#65
sec-Butylbenzene
Concen: 246.17 ng
RT: 15.180 min Scan# 1979
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 507443

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.7	23.5

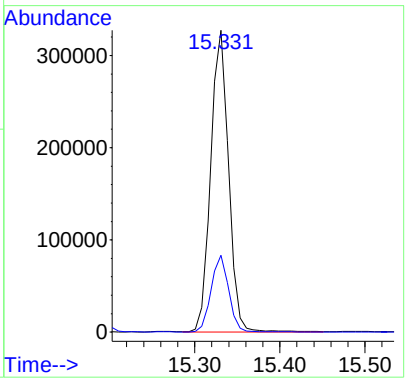


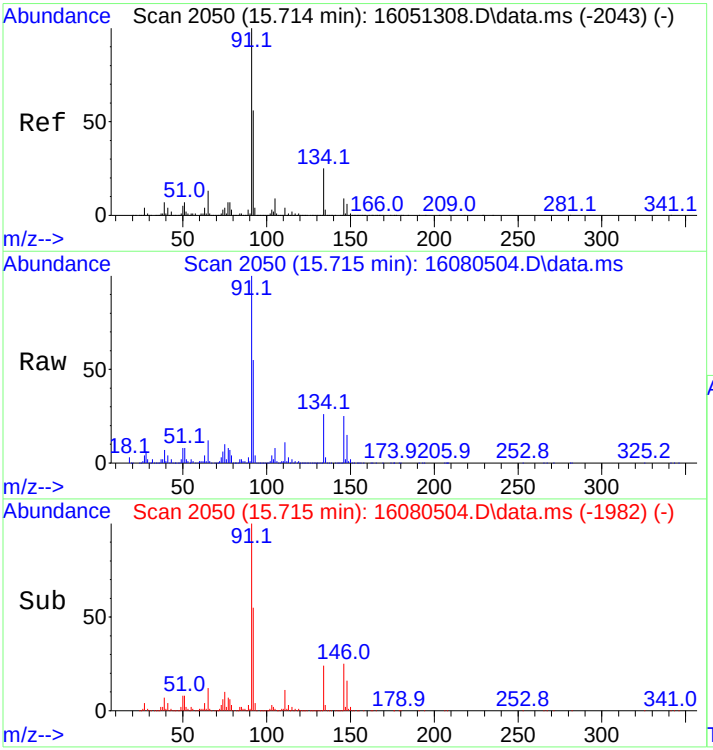


#66
p-Isopropyltoluene
Concen: 263.18 ng
RT: 15.331 min Scan# 1999
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:119 Resp: 478260

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.6	31.0

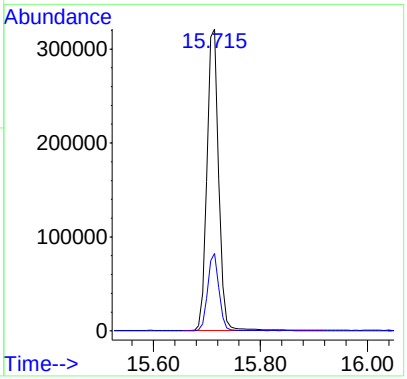


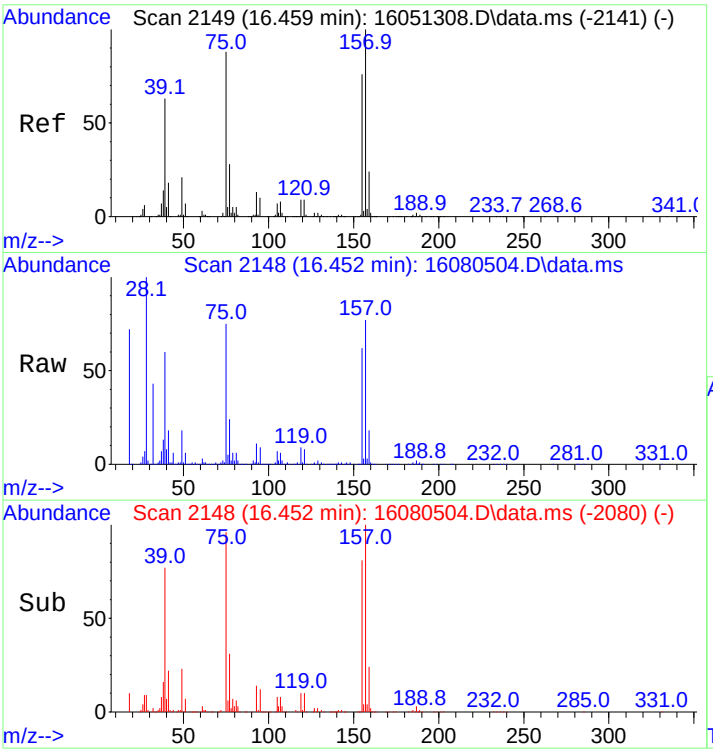


#67
n-Butylbenzene
Concen: 277.54 ng
RT: 15.715 min Scan# 2050
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 487598

Ion	Ratio	Lower	Upper
91	100		
134	24.8	21.0	31.6

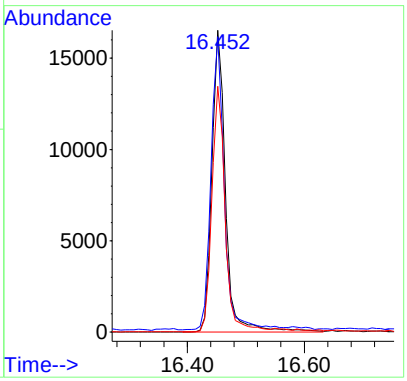




#68
1,2-Dibromo-3-chloropropane
Concen: 242.46 ng
RT: 16.452 min Scan# 2148
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:157 Resp: 26748

Ion	Ratio	Lower	Upper
157	100		
75	94.5	68.6	103.0
155	78.5	62.2	93.2



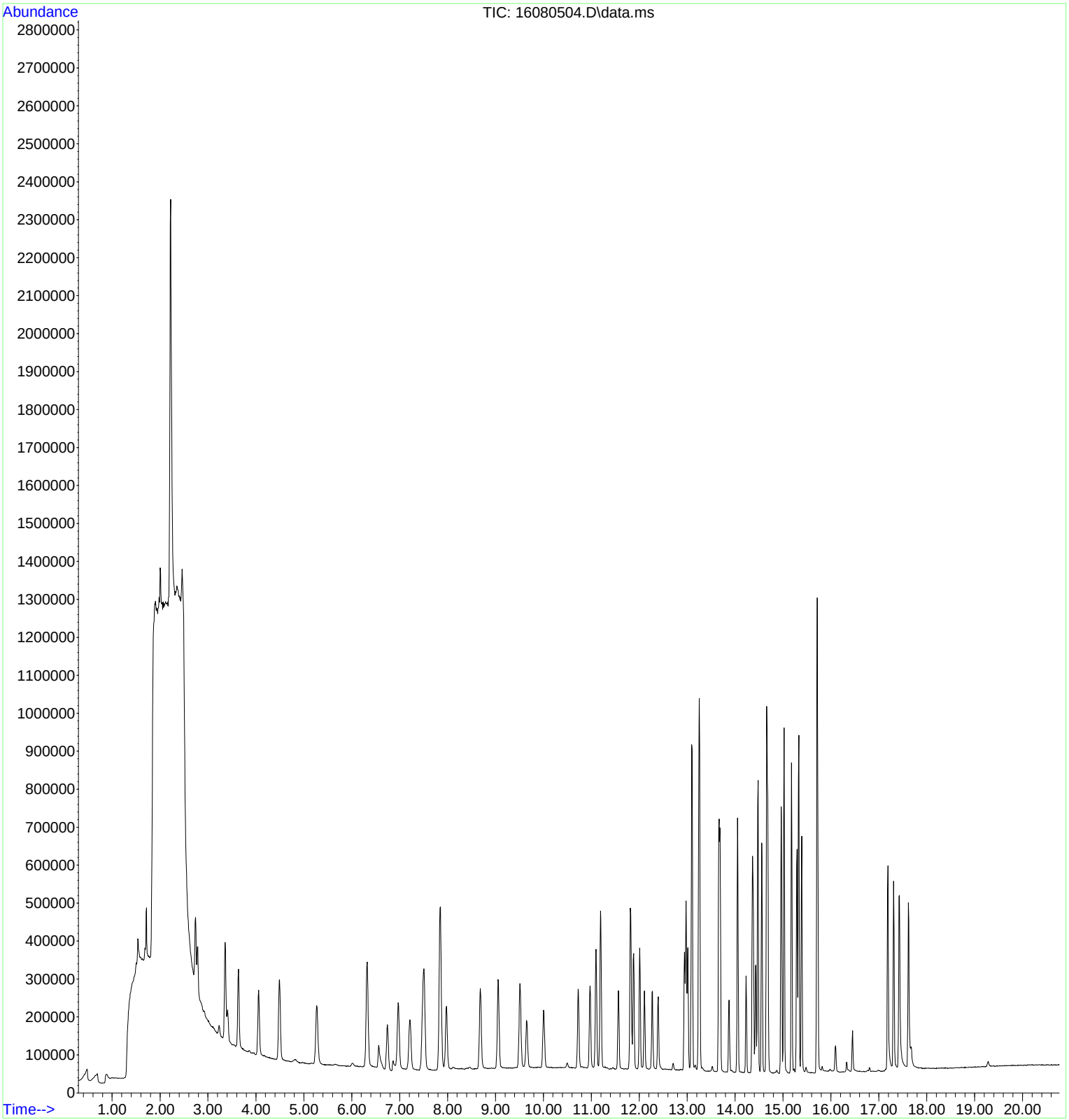
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

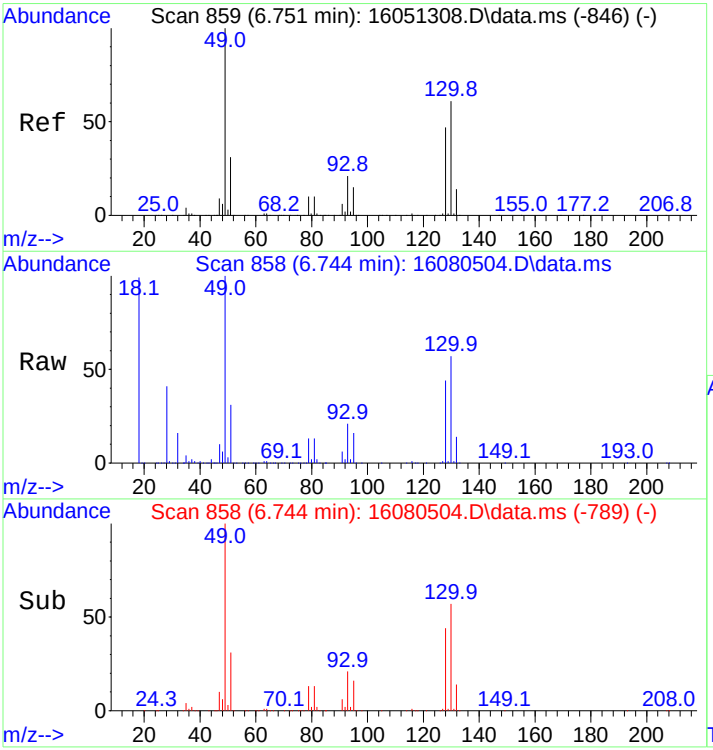
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080504.D
Acq On : 5 Aug 2016 1:35 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc : Coder SG
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 12:53:07 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

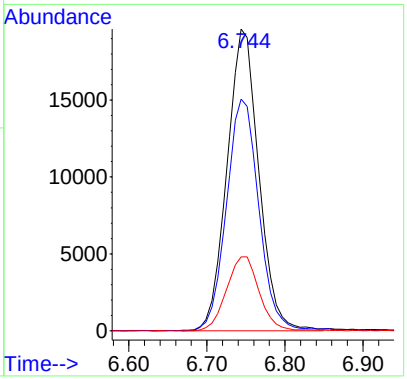


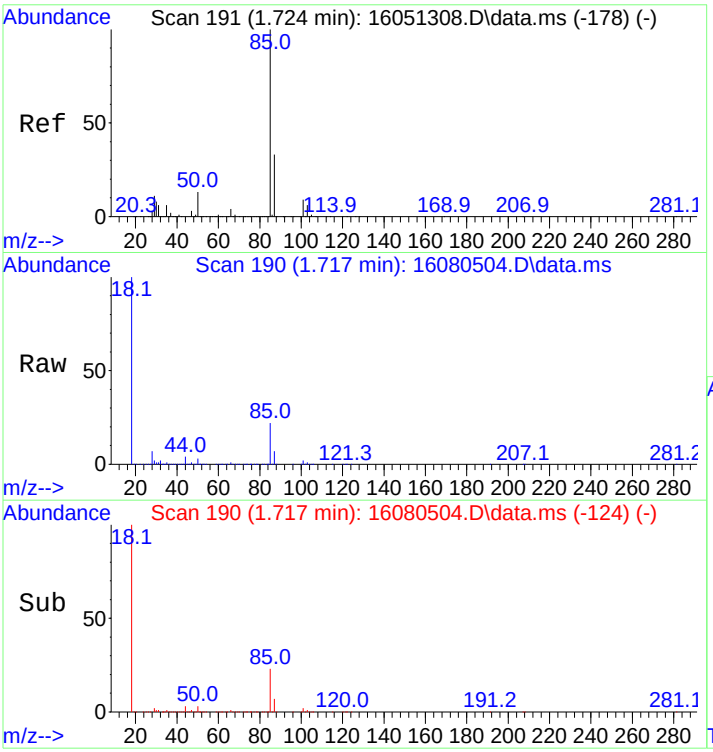


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.744 min Scan# 858
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:130 Resp: 55538

Ion	Ratio	Lower	Upper
130	100		
128	78.6	63.0	94.4
132	25.5	19.9	29.9

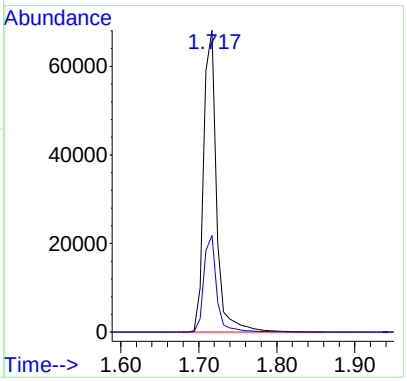


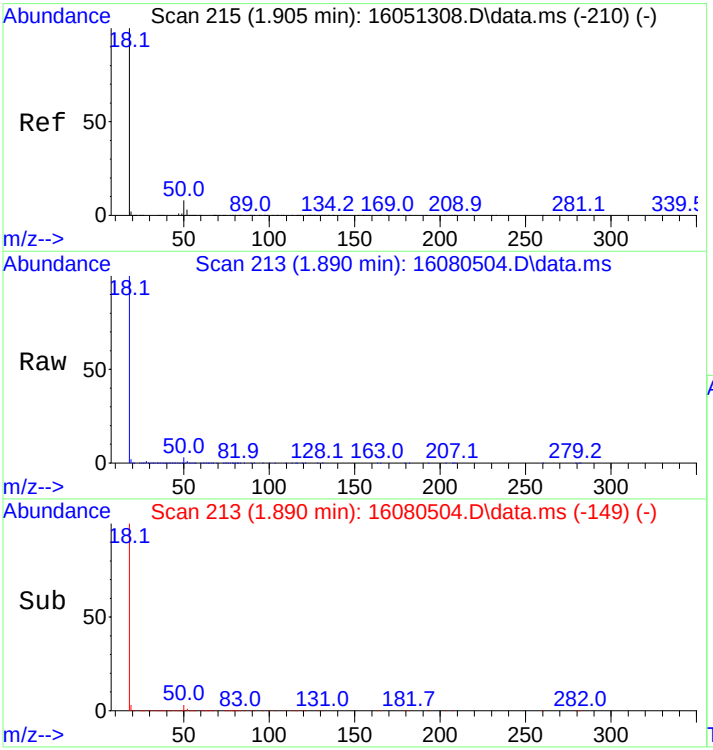


#2
Dichlorodifluoromethane
Concen: 212.07 ng
RT: 1.717 min Scan# 190
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 85 Resp: 78137

Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.0	39.0

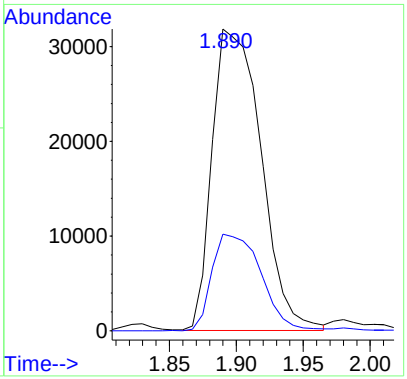


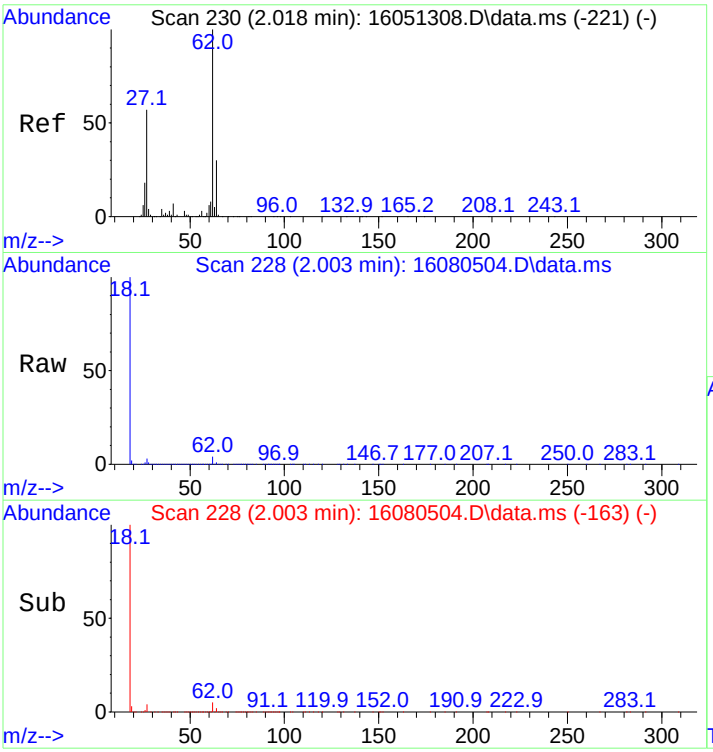


#3
Chloromethane
Concen: 184.96 ng
RT: 1.890 min Scan# 213
Delta R.T. -0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 50 Resp: 80823

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.0	39.0

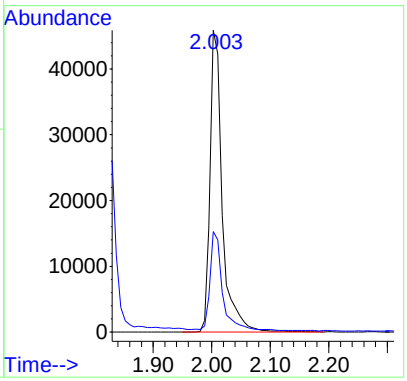


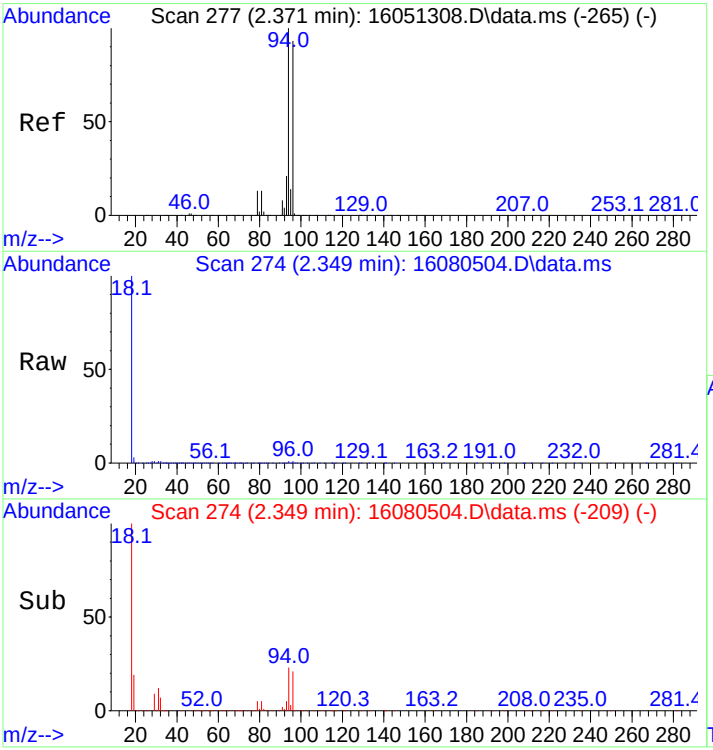


#4
Vinyl Chloride
Concen: 126.79 ng
RT: 2.003 min Scan# 228
Delta R.T. -0.007 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 62 Resp: 66588

Ion	Ratio	Lower	Upper
62	100		
64	33.7	25.7	38.5

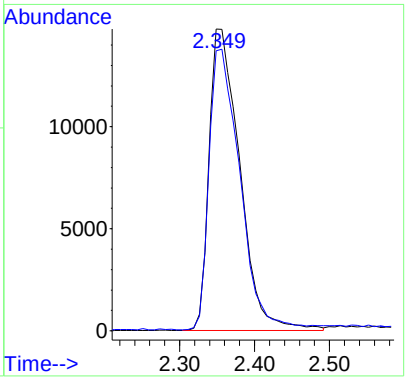


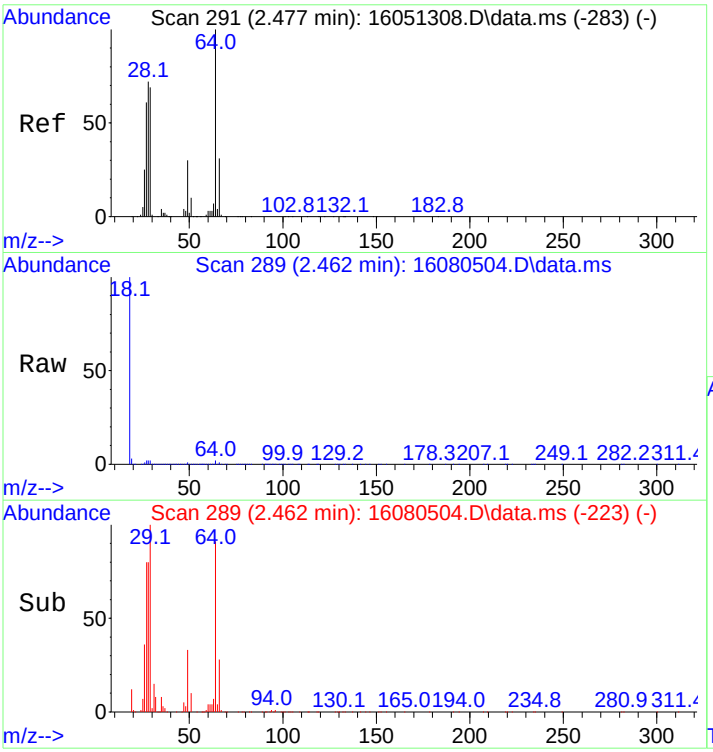


#5
Bromomethane
Concen: 180.30 ng
RT: 2.349 min Scan# 274
Delta R.T. -0.007 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 94 Resp: 42083

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.5	111.7

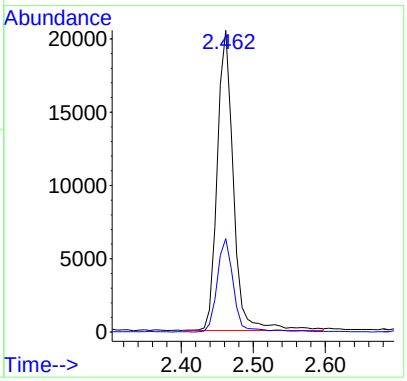


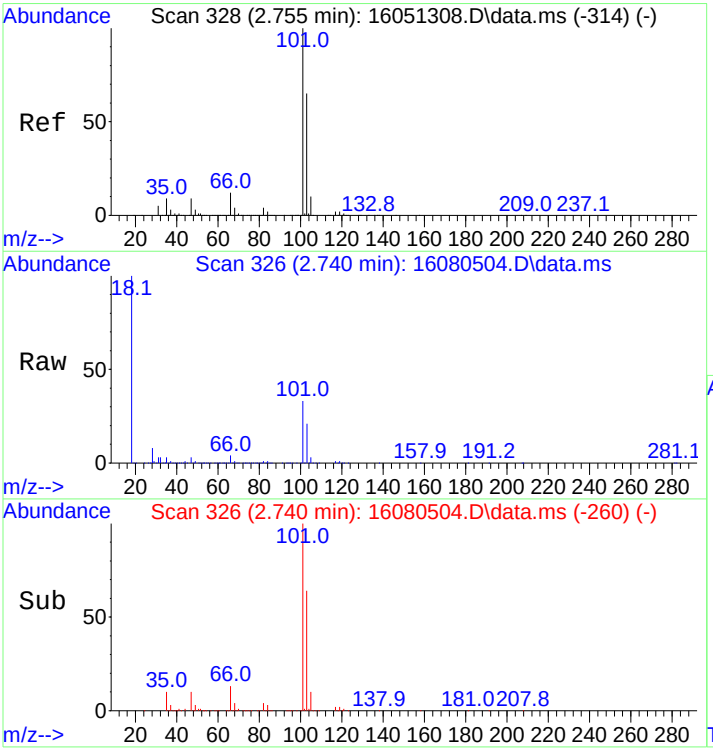


#6
Chloroethane
Concen: 117.07 ng
RT: 2.462 min Scan# 289
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 64 Resp: 32011

Ion	Ratio	Lower	Upper
64	100		
66	30.9	25.0	37.4

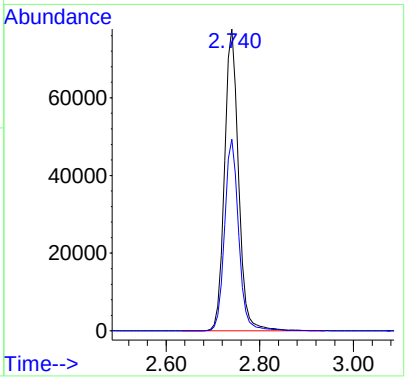


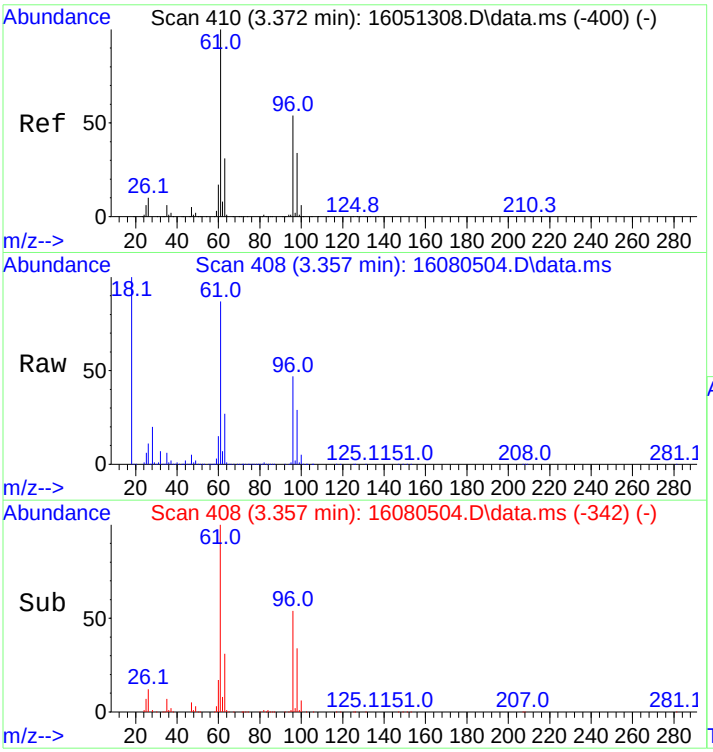


#7
Trichlorofluoromethane
Concen: 206.10 ng
RT: 2.740 min Scan# 326
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:101 Resp: 161448

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.8	77.6

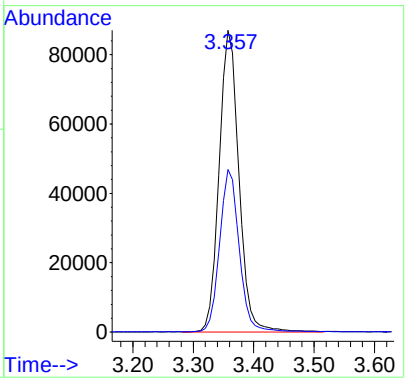


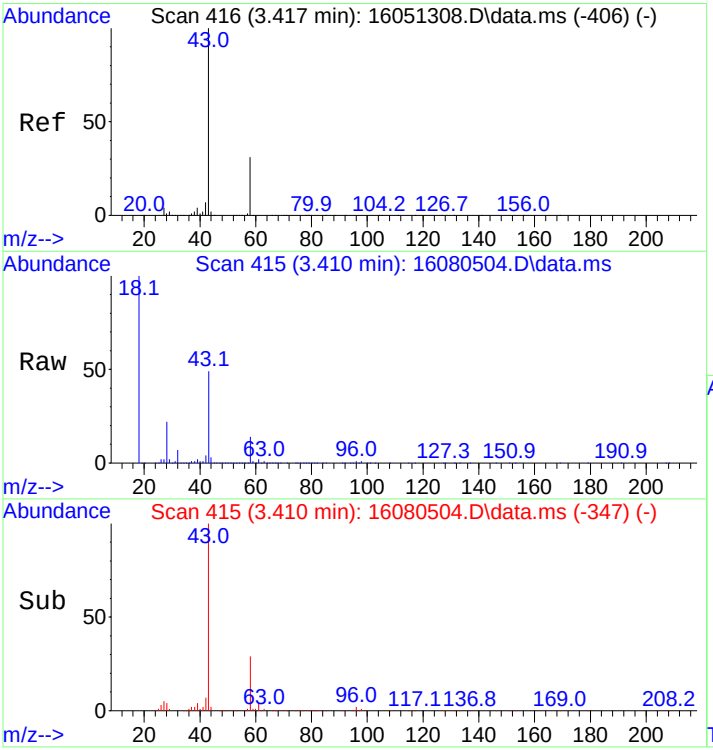


#8
1,1-Dichloroethene
Concen: 208.57 ng
RT: 3.357 min Scan# 408
Delta R.T. 0.000 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 61 Resp: 196920

Ion	Ratio	Lower	Upper
61	100		
96	53.4	44.1	66.1

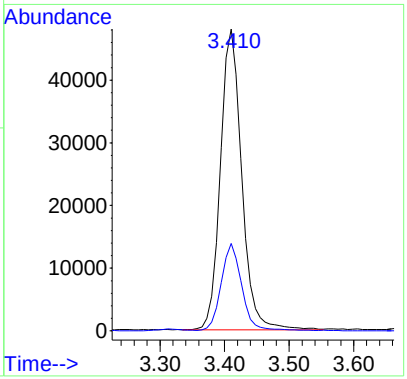


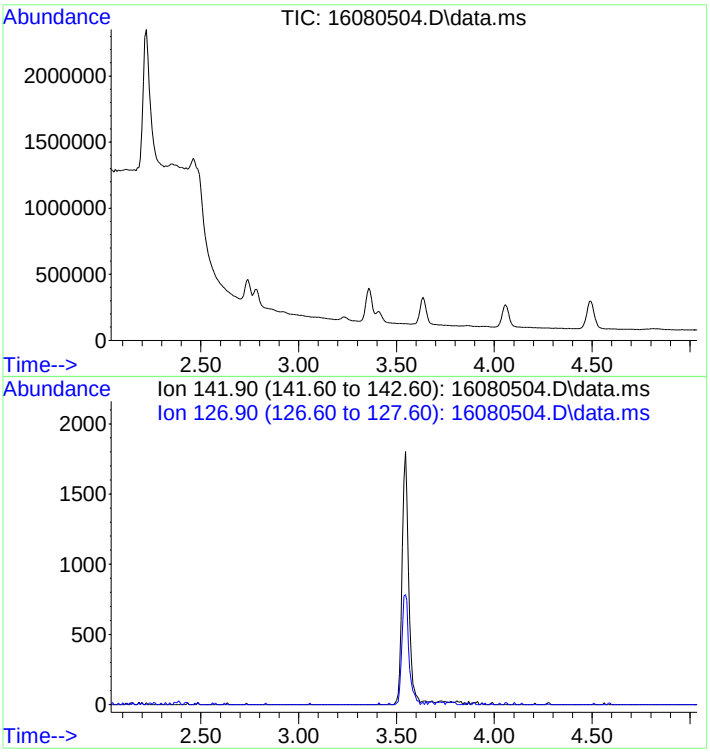


#9
Acetone
Concen: 313.11 ng
RT: 3.410 min Scan# 415
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 110022

Ion	Ratio	Lower	Upper
43	100		
58	28.2	24.7	37.1



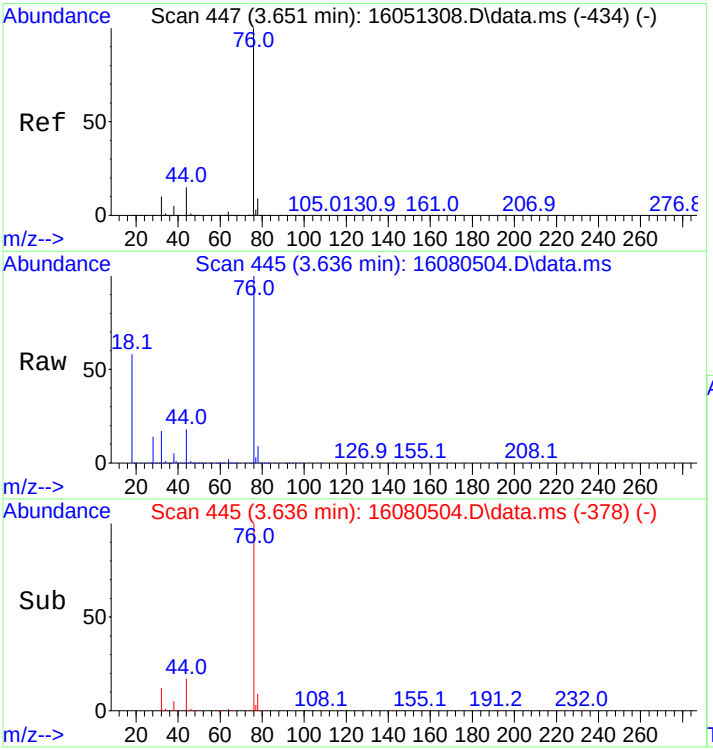


#10
Iodomethane
Concen: N.D.
Expected RT: 3.54 min

Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 142

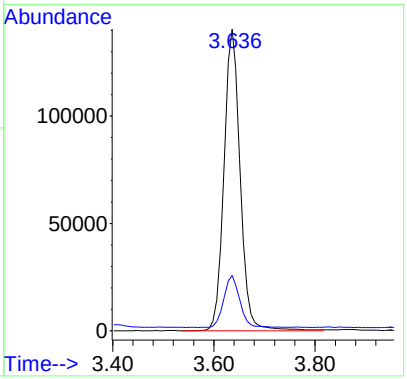
Sig	Exp Ratio
142	100
127	41.0

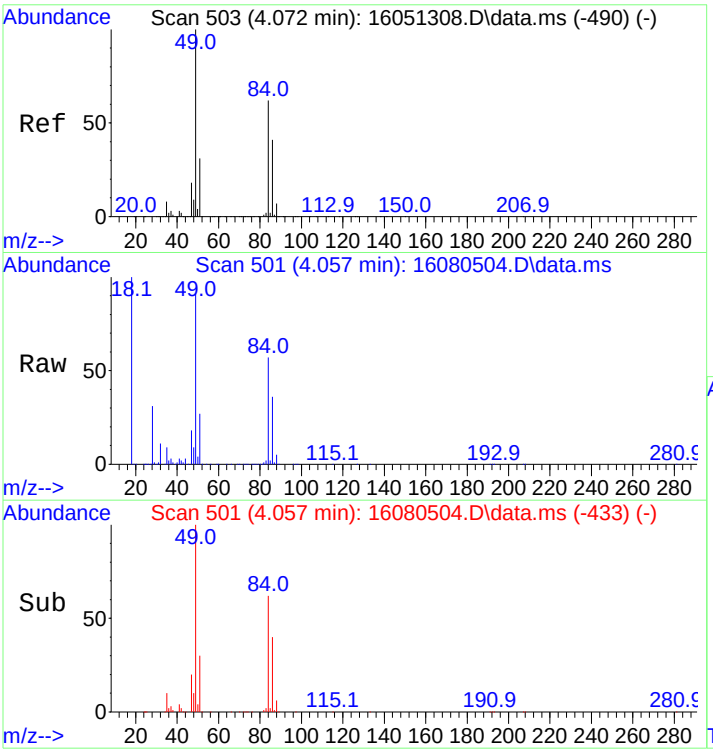


#11
Carbon disulfide
Concen: 212.63 ng
RT: 3.636 min Scan# 445
Delta R.T. 0.008 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 76 Resp: 314269

Ion	Ratio	Lower	Upper
76	100		
44	16.9	12.2	18.4

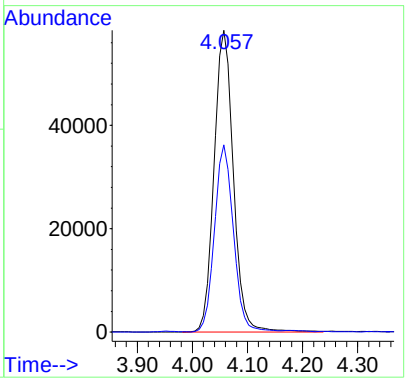


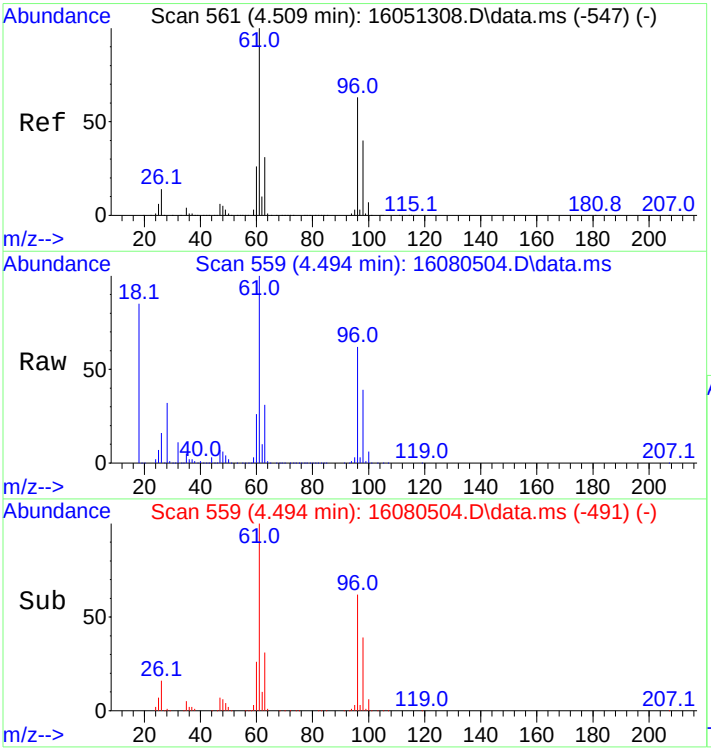


#12
Methylene Chloride
Concen: 218.35 ng
RT: 4.057 min Scan# 501
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 49 Resp: 142668

Ion	Ratio	Lower	Upper
49	100		
84	60.8	48.4	72.6

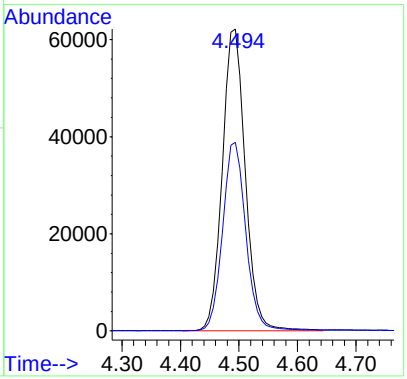


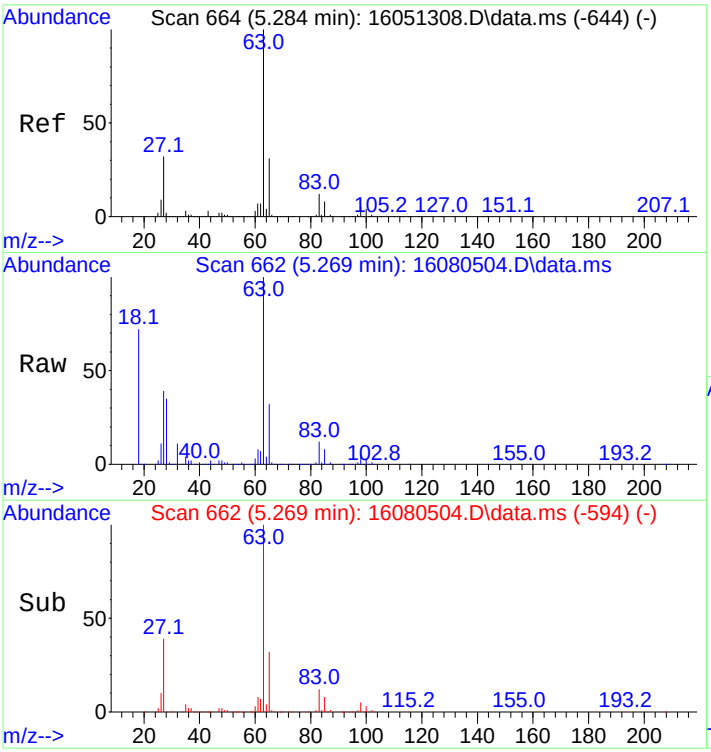


#13
trans,1,2-Dichloroethene
Concen: 270.81 ng
RT: 4.494 min Scan# 559
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 61 Resp: 169716

Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.2	75.4

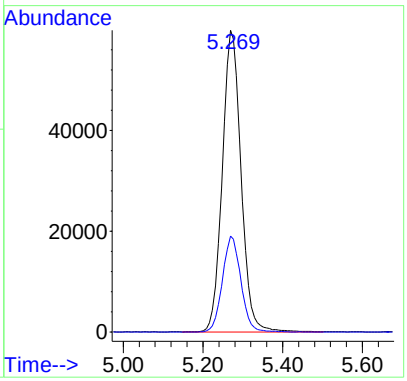


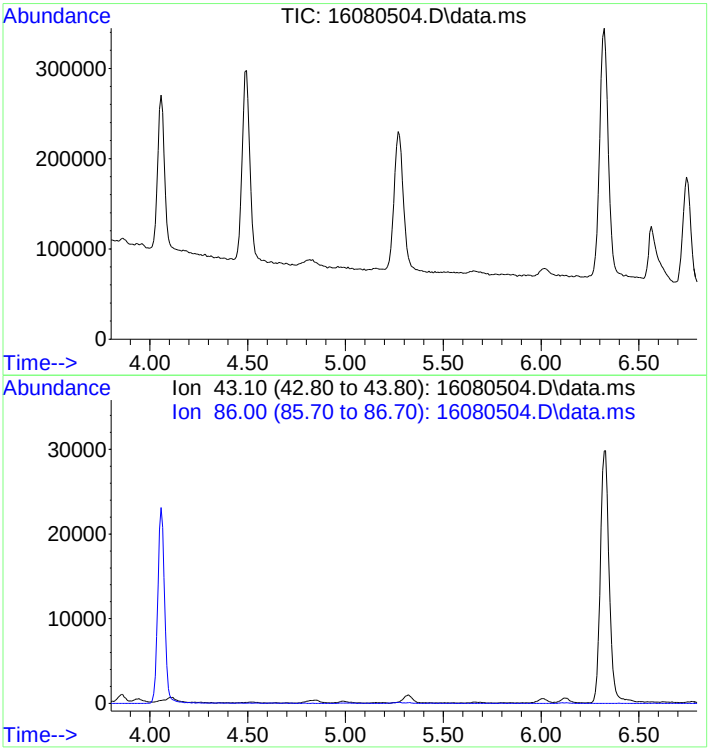


#14
1,1-Dichloroethane
Concen: 251.63 ng
RT: 5.269 min Scan# 662
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 63 Resp: 195591

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.6	37.0



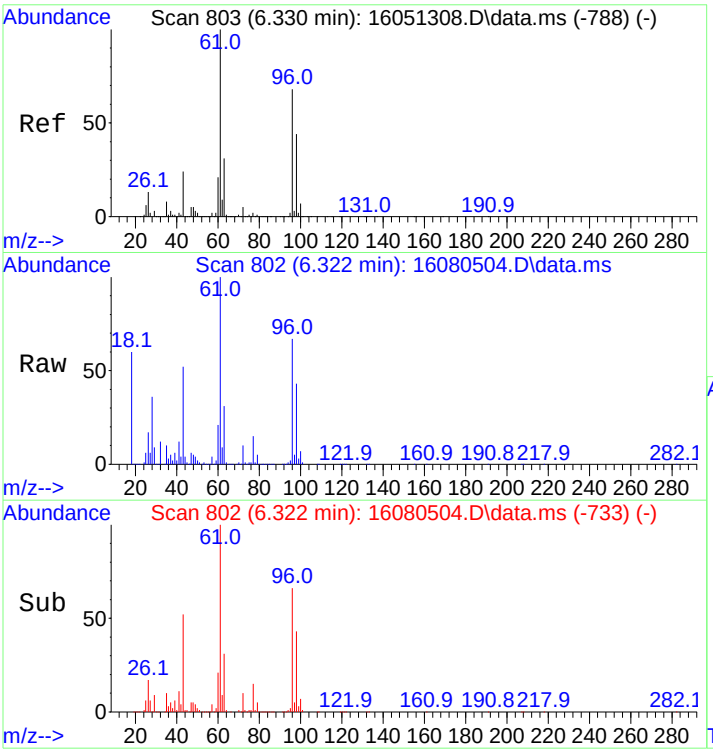


#15
Vinyl Acetate
Concen: N.D.
Expected RT: 5.30 min

Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43

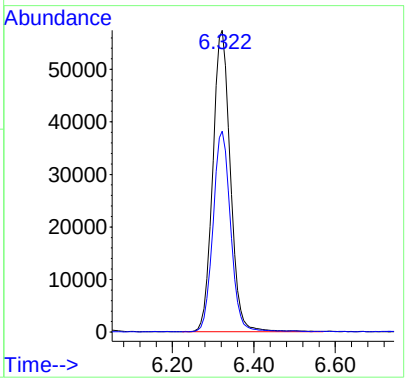
Sig	Exp Ratio
43	100
86	8.2

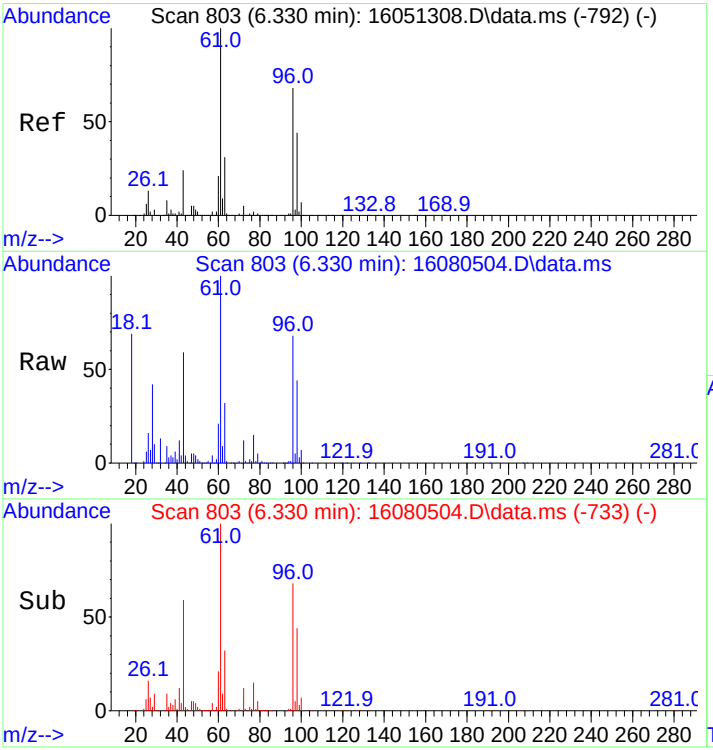


#16
cis,1,2-Dichloroethene
Concen: 237.67 ng
RT: 6.322 min Scan# 802
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 61 Resp: 172627

Ion	Ratio	Lower	Upper
61	100		
96	66.2	54.6	81.8

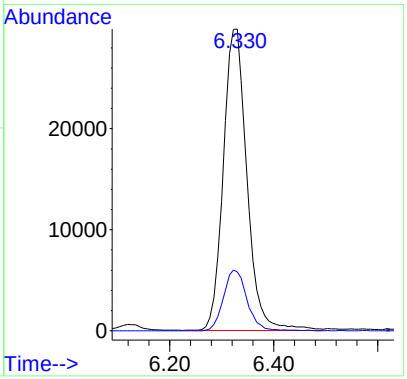


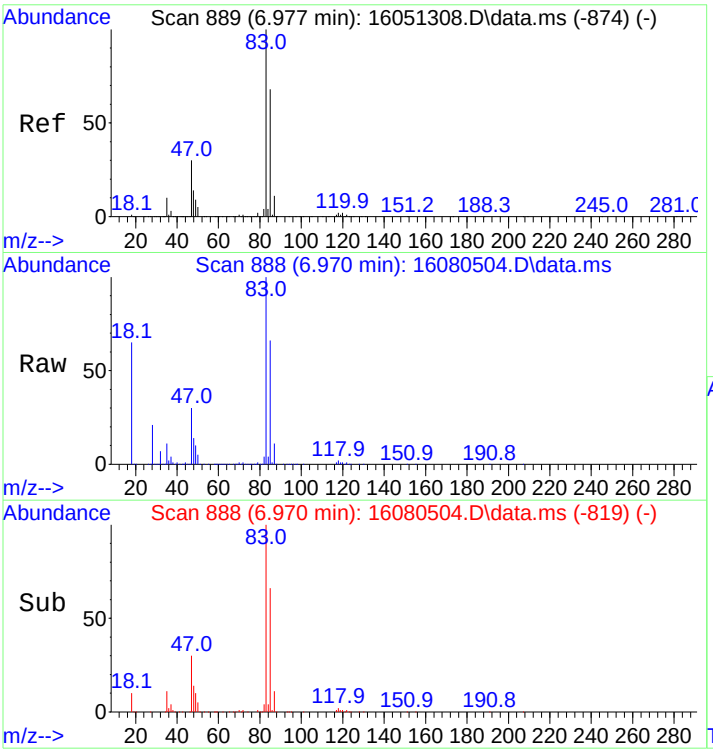


#17
2-Butanone
Concen: 373.48 ng
RT: 6.330 min Scan# 803
Delta R.T. 0.030 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 93831

Ion	Ratio	Lower	Upper
43	100		
72	20.1	17.4	26.2

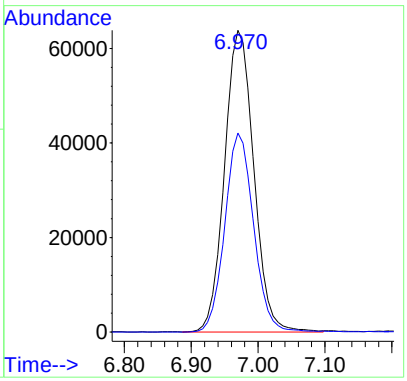


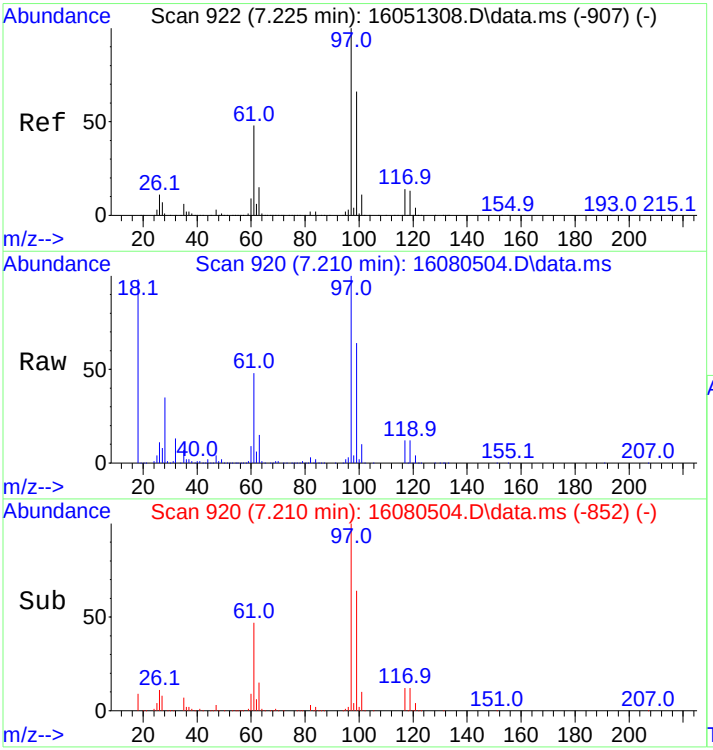


#18
Chloroform
Concen: 265.60 ng
RT: 6.970 min Scan# 888
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 193677

Ion	Ratio	Lower	Upper
83	100		
85	65.1	53.9	80.9

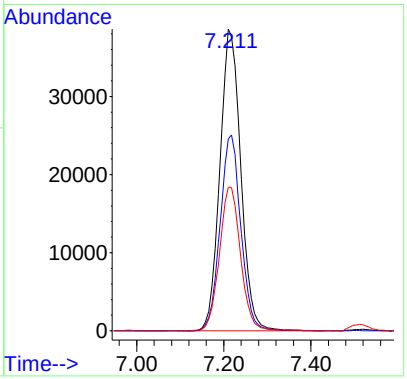


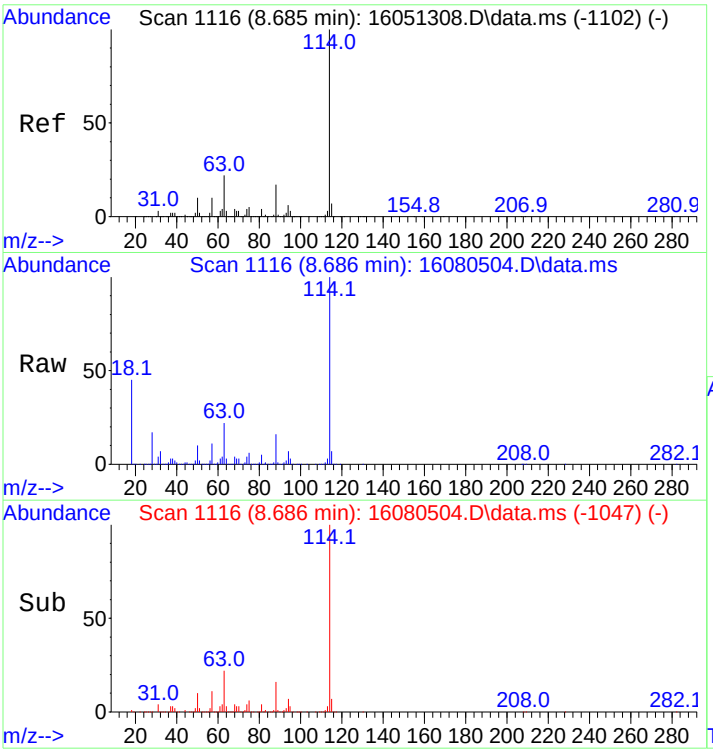


#19
1,1,1-Trichloroethane
Concen: 308.27 ng
RT: 7.210 min Scan# 920
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 97 Resp: 128537

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	48.1	37.6	56.4

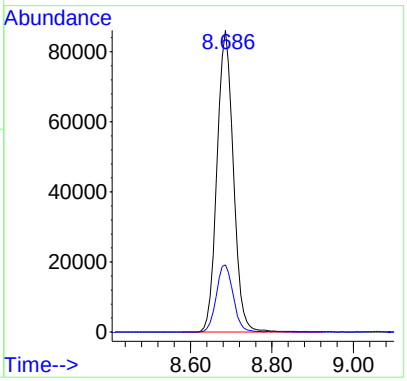


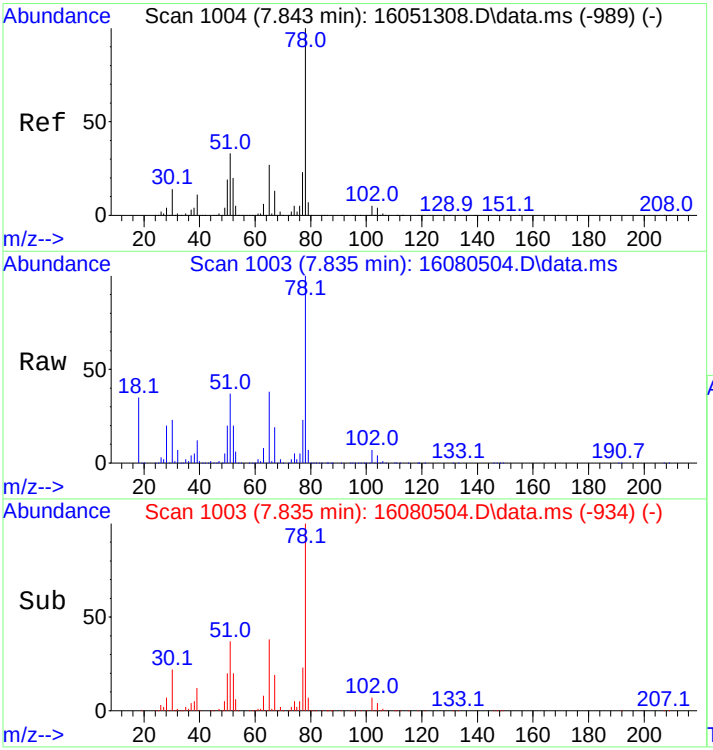


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.686 min Scan# 1116
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:114 Resp: 241028

Ion	Ratio	Lower	Upper
114	100		
63	22.9	17.8	26.8

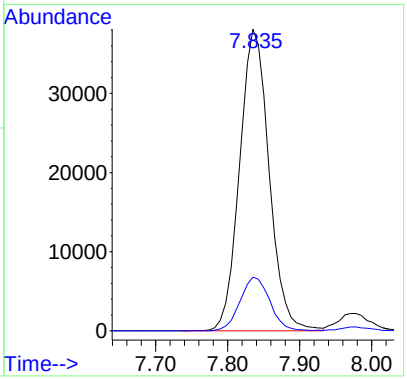


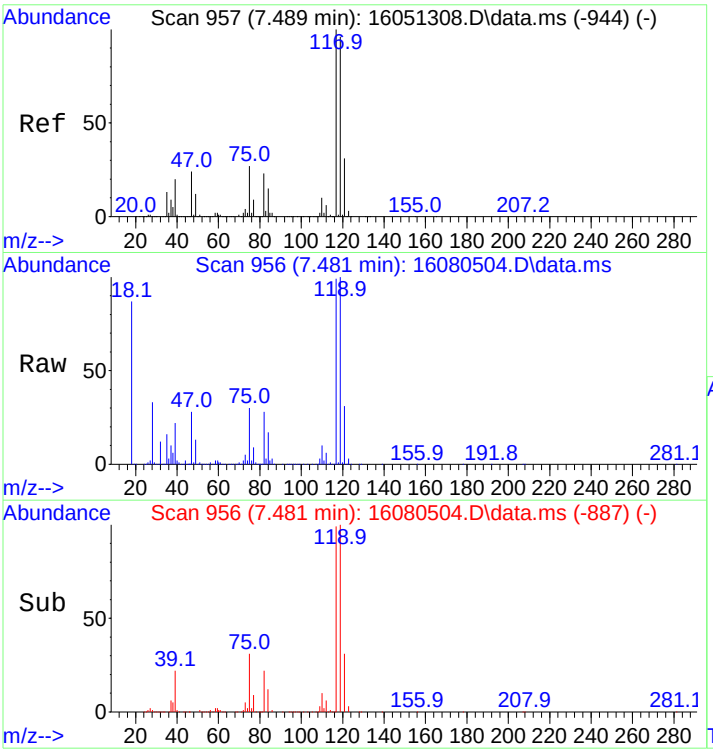


#21
d4-1,2-Dichloroethane(SURR)
Concen: 331.30 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 65 Resp: 108163

Ion	Ratio	Lower	Upper
65	100		
102	17.9	16.5	24.7

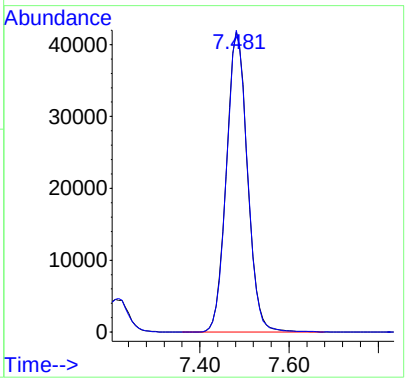


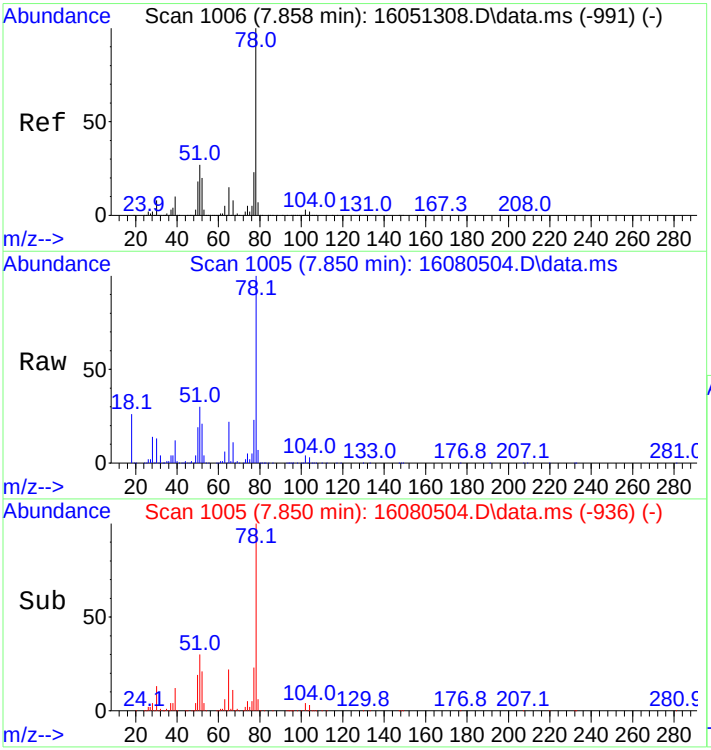


#22
Carbon Tetrachloride
Concen: 297.52 ng
RT: 7.481 min Scan# 956
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:117 Resp: 137000

Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.0	115.4

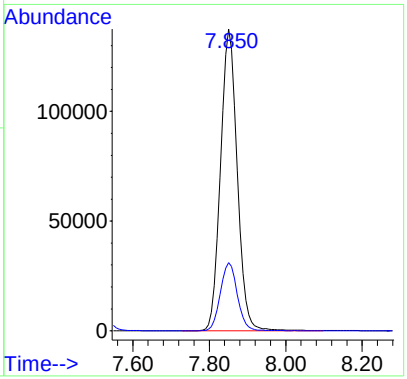


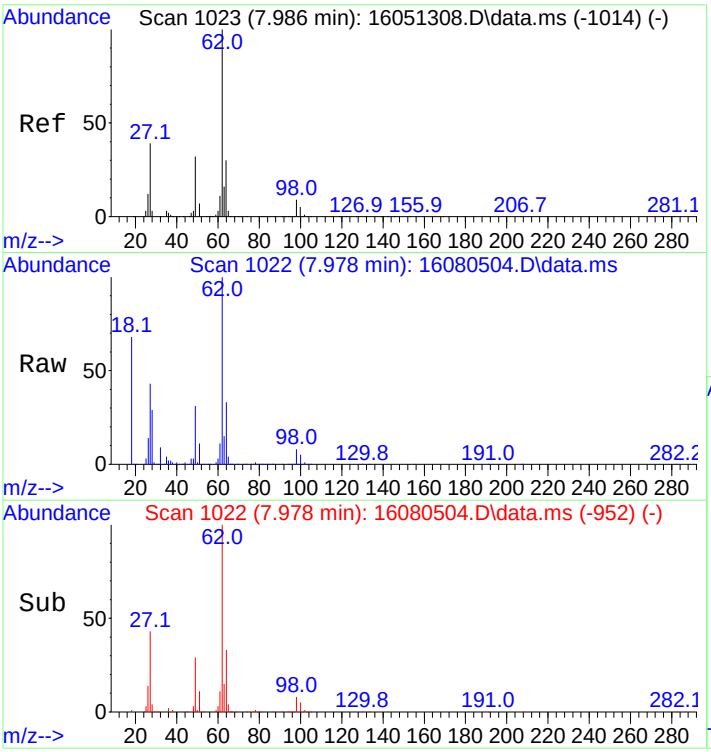


#23
Benzene
Concen: 239.25 ng
RT: 7.850 min Scan# 1005
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 78 Resp: 417473

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

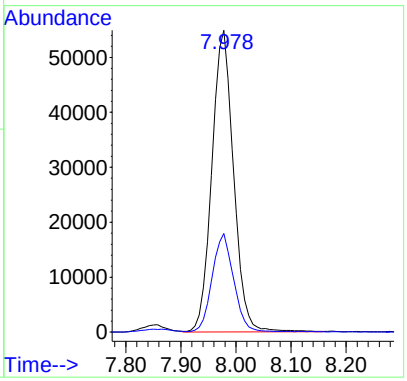


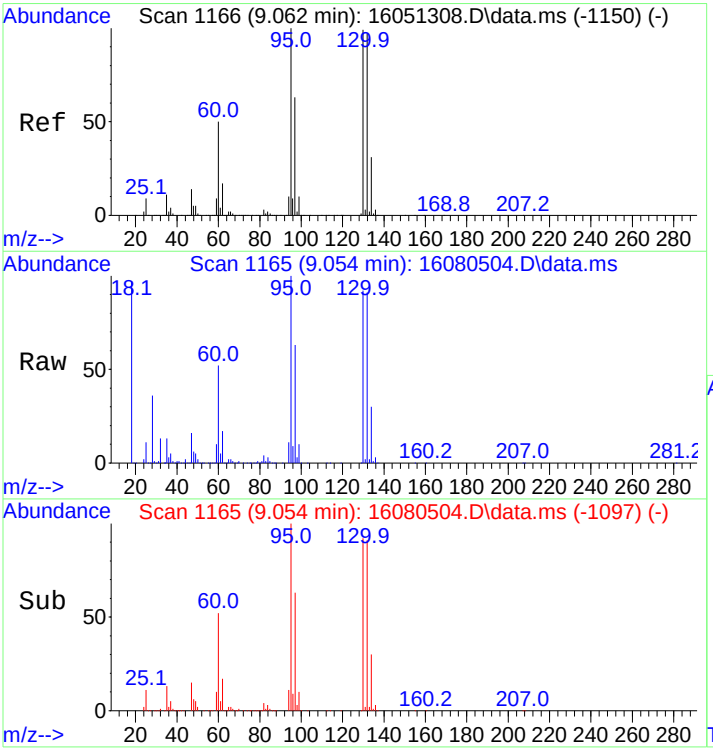


#24
1,2-Dichloroethane
Concen: 301.42 ng
RT: 7.978 min Scan# 1022
Delta R.T. 0.030 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 62 Resp: 150560

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.8	37.2

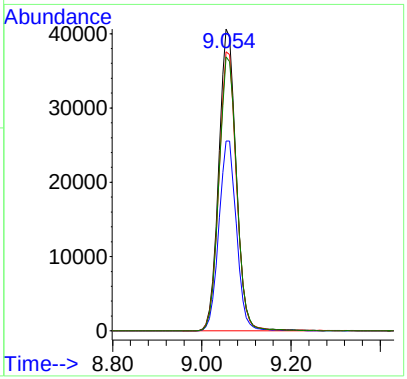


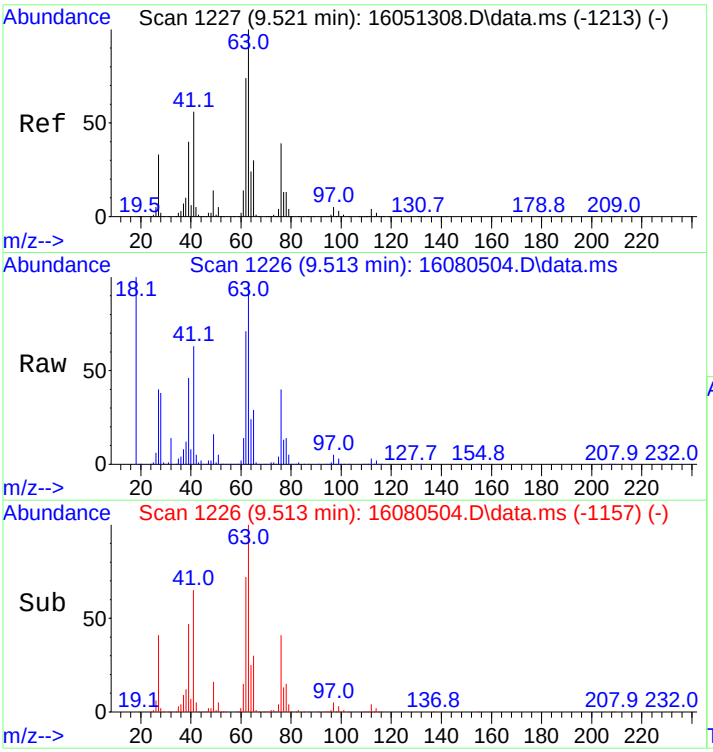


#25
Trichloroethene
Concen: 282.04 ng
RT: 9.054 min Scan# 1165
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 95 Resp: 110332

Ion	Ratio	Lower	Upper
95	100		
97	63.3	51.8	77.8
130	92.9	81.9	122.9
132	92.2	81.2	121.8

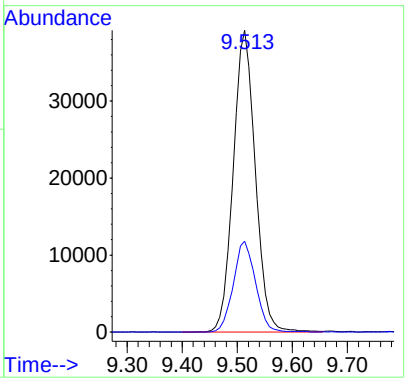


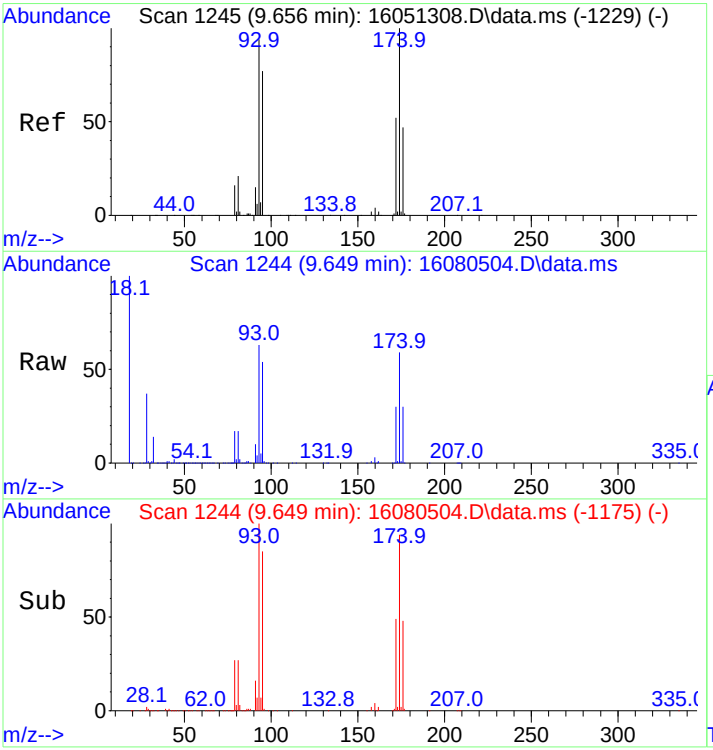


#26
1,2-Dichloropropane
Concen: 271.64 ng
RT: 9.513 min Scan# 1226
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 63 Resp: 108646

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.2	36.2

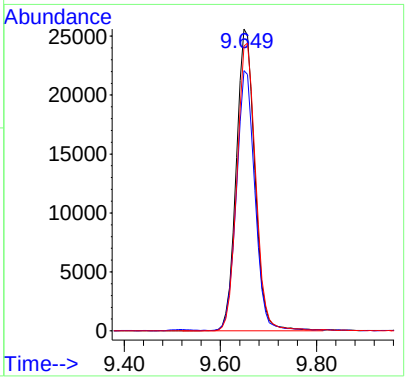


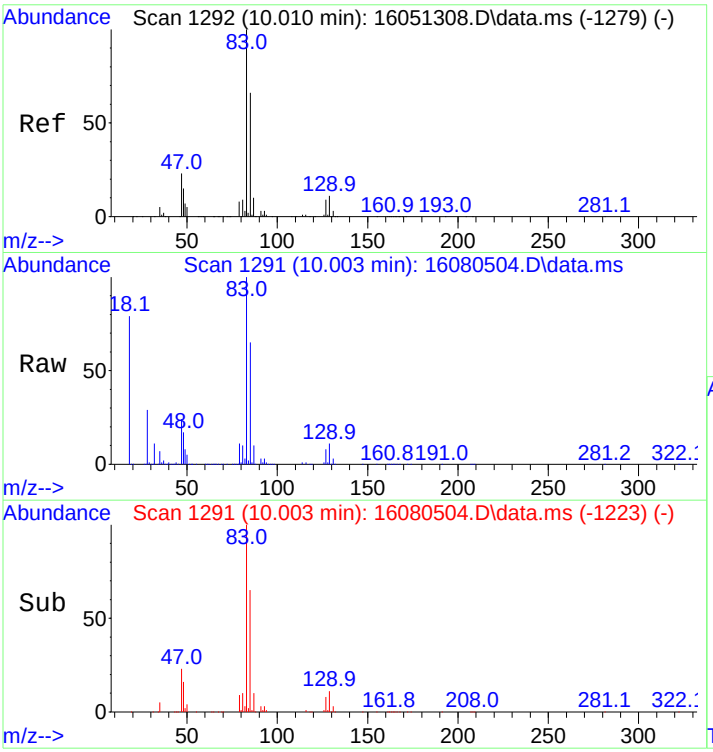


#27
Dibromomethane
Concen: 307.58 ng
RT: 9.649 min Scan# 1244
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 93 Resp: 68908

Ion	Ratio	Lower	Upper
93	100		
95	85.3	65.5	98.3
174	95.7	85.5	128.3

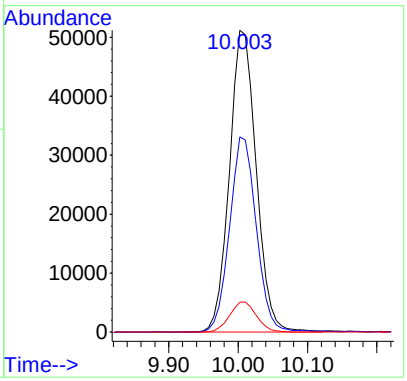


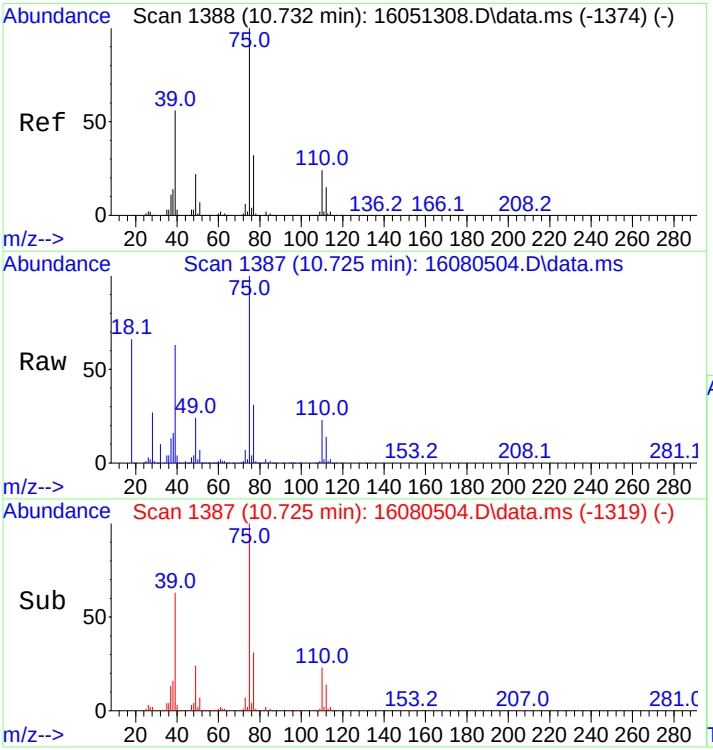


#28
Bromodichloromethane
Concen: 315.23 ng
RT: 10.003 min Scan# 1291
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 137287

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.5	78.7
87	10.0	8.3	12.5

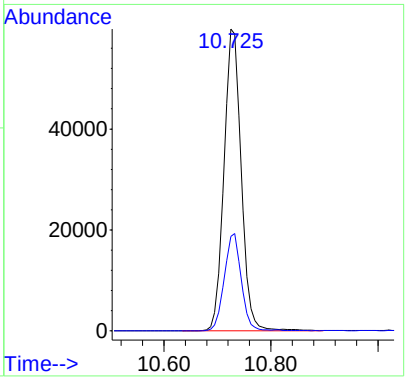


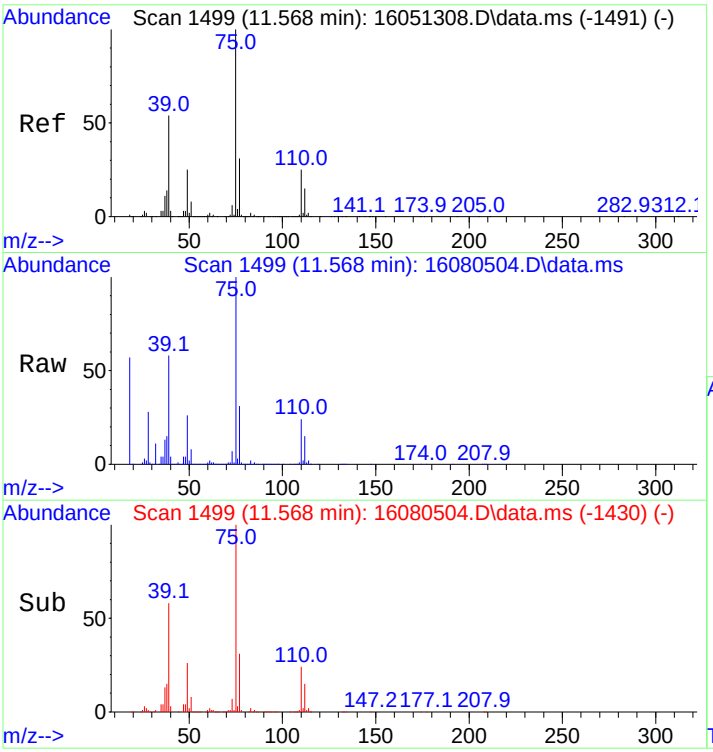


#29
cis,1,3-Dichloropropene
Concen: 299.87 ng
RT: 10.725 min Scan# 1387
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 133789

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4

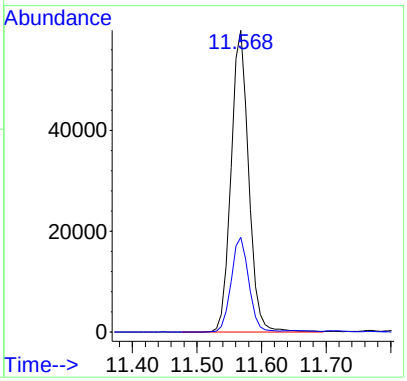


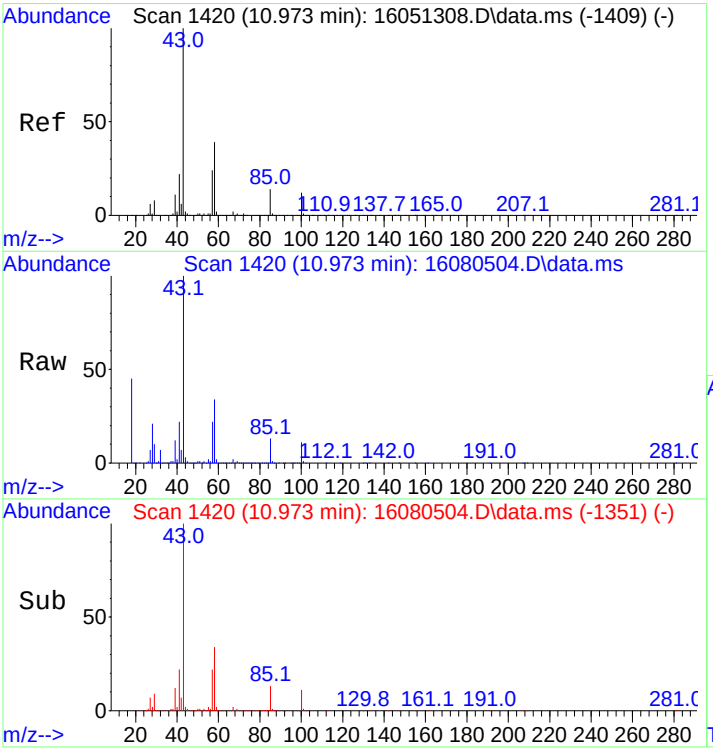


#30
trans,1,3-Dichloropropene
Concen: 374.11 ng
RT: 11.568 min Scan# 1499
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 113527

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.0	39.0

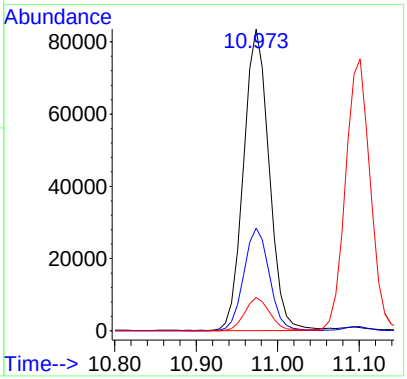


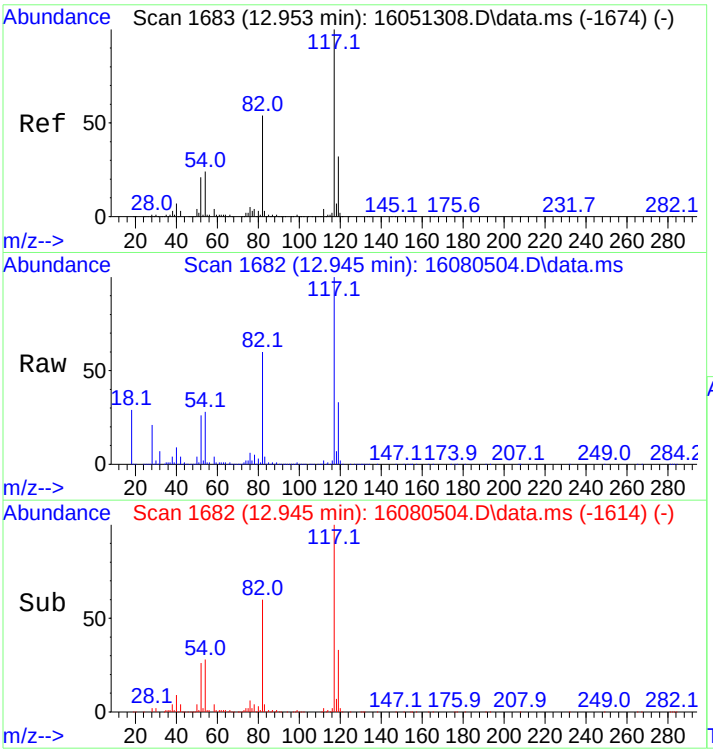


#31
4-Methyl-2-Pentanone
Concen: 309.01 ng
RT: 10.973 min Scan# 1420
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 182004

Ion	Ratio	Lower	Upper
43	100		
58	34.3	31.3	46.9
100	10.9	10.2	15.2

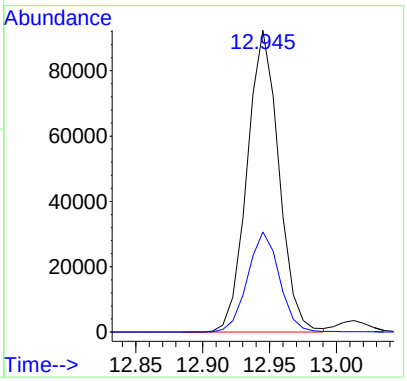


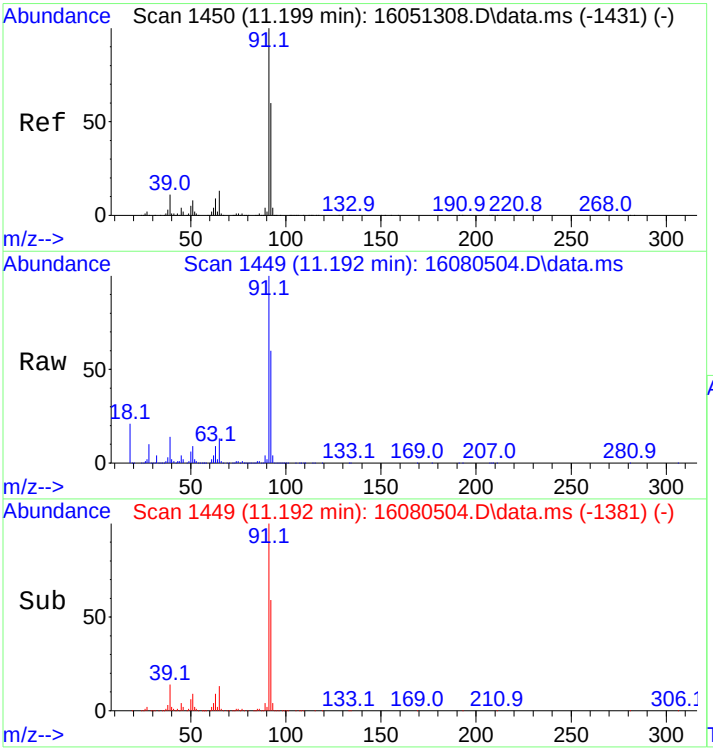


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.945 min Scan# 1682
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:117 Resp: 152948

Ion	Ratio	Lower	Upper
117	100		
119	33.4	25.8	38.8

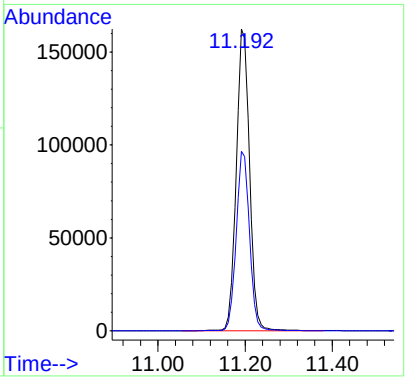


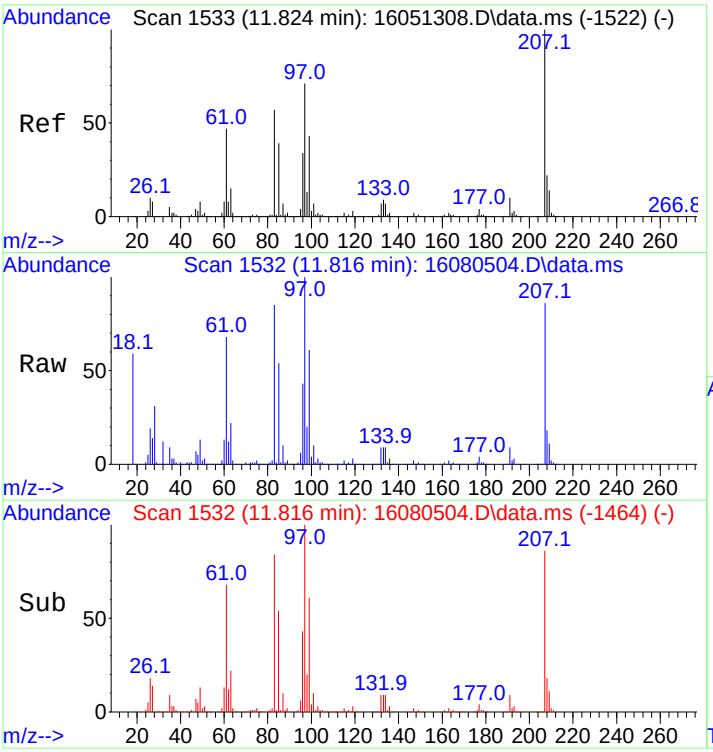


#33
Toluene
Concen: 226.60 ng
RT: 11.192 min Scan# 1449
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 343761

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.6	73.0

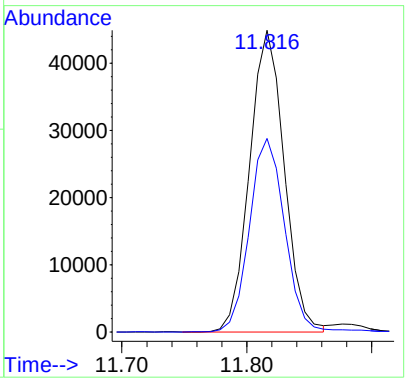


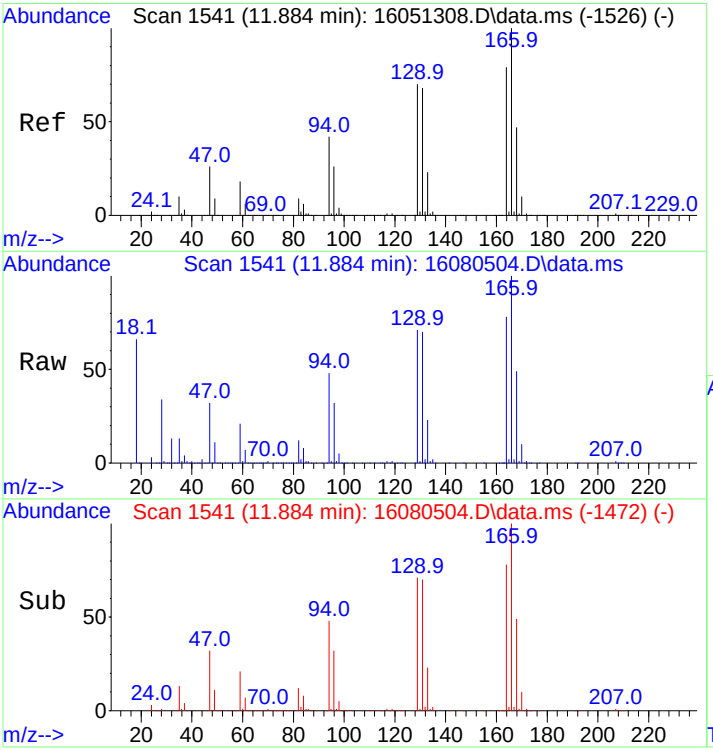


#34
1,1,2-Trichloroethane
Concen: 330.88 ng
RT: 11.816 min Scan# 1532
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 86749

Ion	Ratio	Lower	Upper
83	100		
85	65.3	54.7	82.1

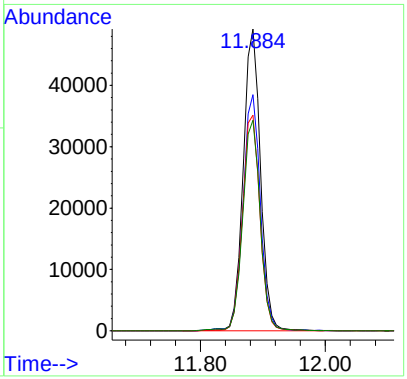


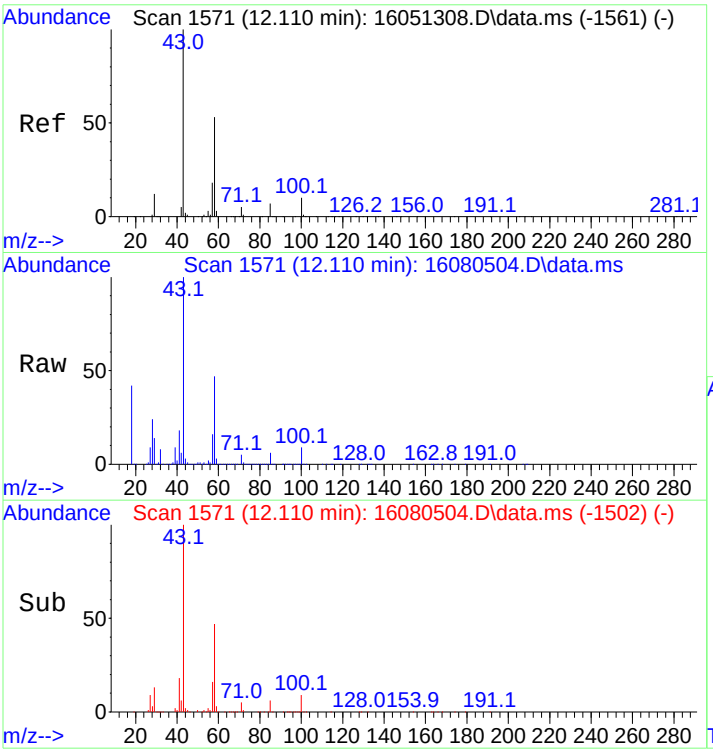


#35
Tetrachloroethene
Concen: 237.77 ng
RT: 11.884 min Scan# 1541
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:166 Resp: 94468

Ion	Ratio	Lower	Upper
166	100		
164	79.6	63.2	94.8
129	72.5	55.5	83.3
131	71.4	55.2	82.8

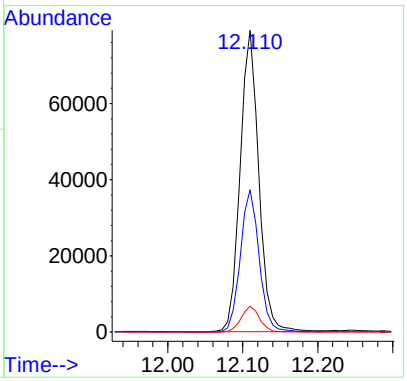


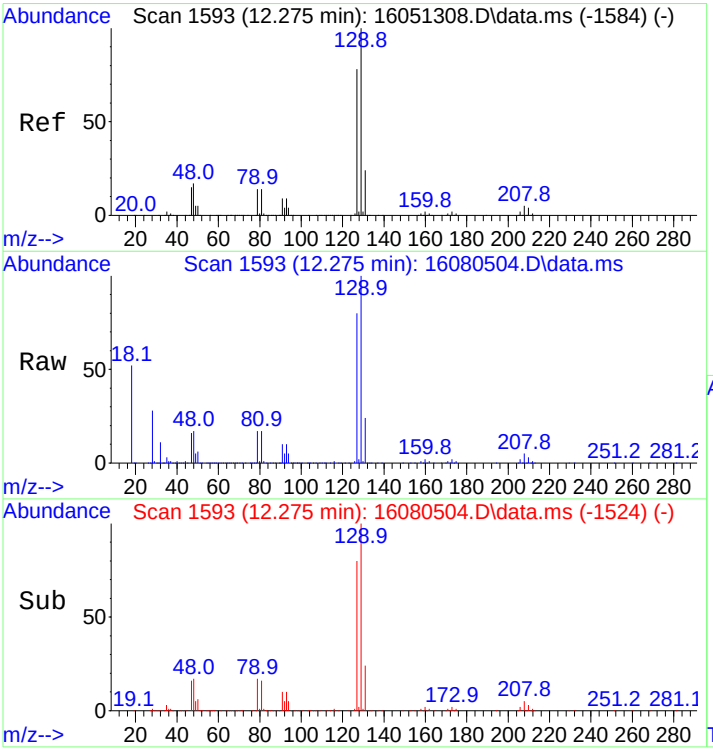


#36
2-Hexanone
Concen: 352.69 ng
RT: 12.110 min Scan# 1571
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 43 Resp: 137263

Ion	Ratio	Lower	Upper
43	100		
58	47.7	43.6	65.4
100	8.6	7.8	11.8

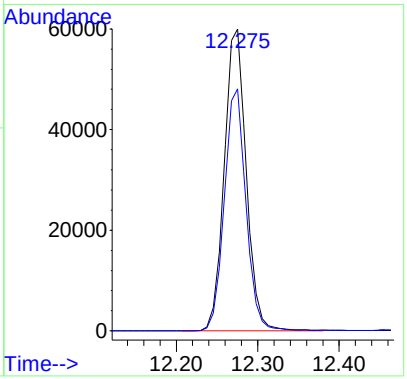


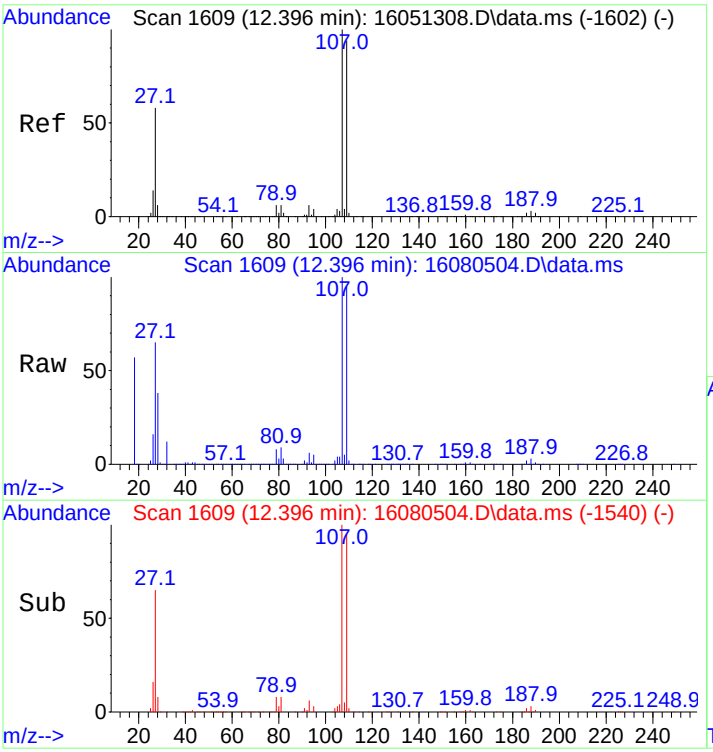


#37
Chlorodibromomethane
Concen: 317.65 ng
RT: 12.275 min Scan# 1593
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:129 Resp: 112957

Ion	Ratio	Lower	Upper
129	100		
127	79.0	62.3	93.5

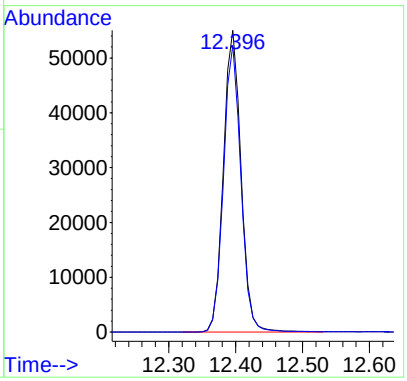


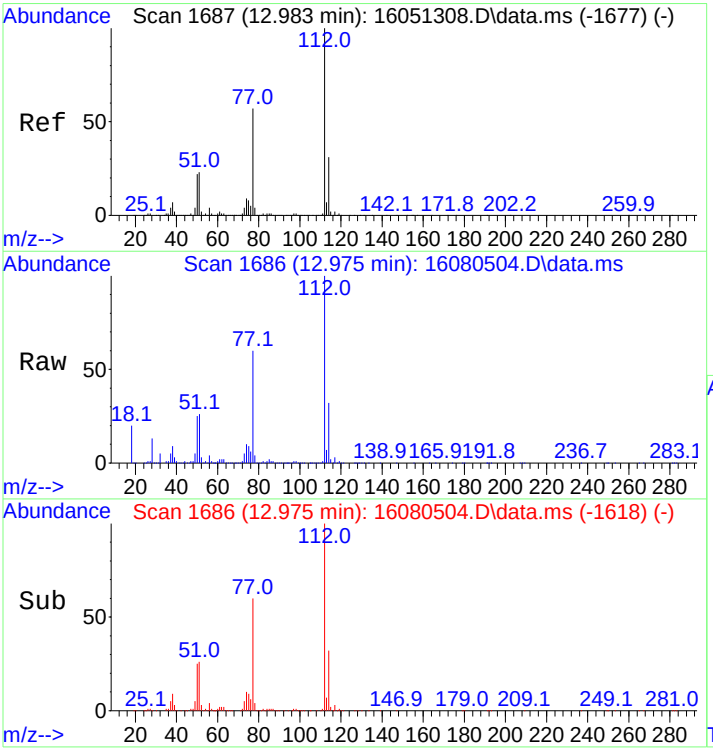


#38
Ethylene Dibromide
Concen: 310.42 ng
RT: 12.396 min Scan# 1609
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:107 Resp: 100760

Ion	Ratio	Lower	Upper
107	100		
109	93.4	74.3	111.5

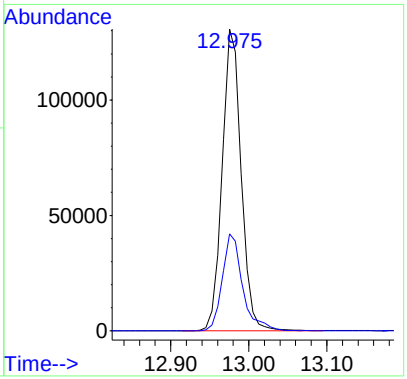


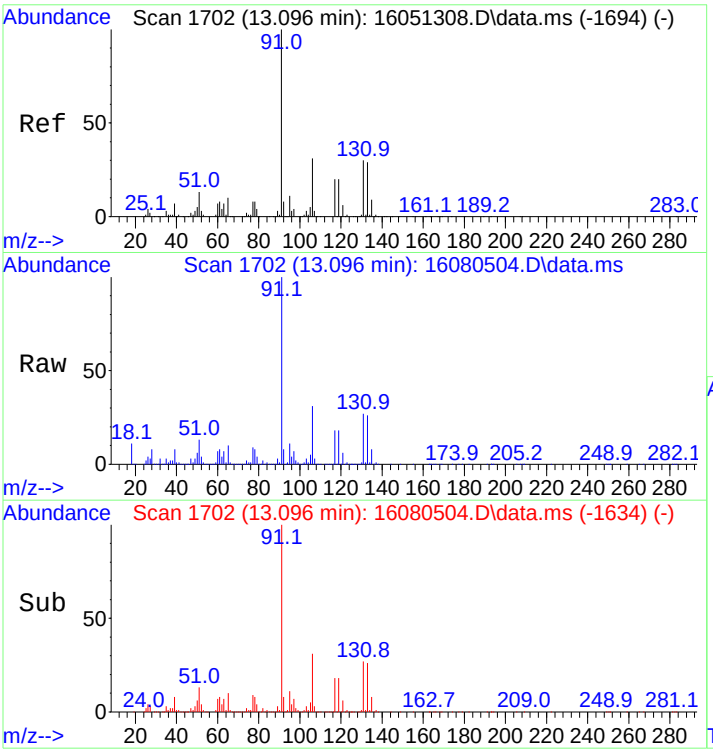


#39
Chlorobenzene
Concen: 237.10 ng
RT: 12.975 min Scan# 1686
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:112 Resp: 221022

Ion	Ratio	Lower	Upper
112	100		
114	34.6	27.5	41.3

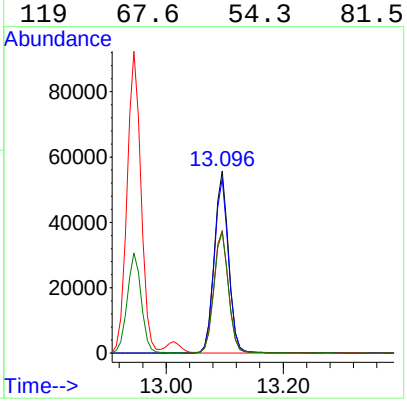


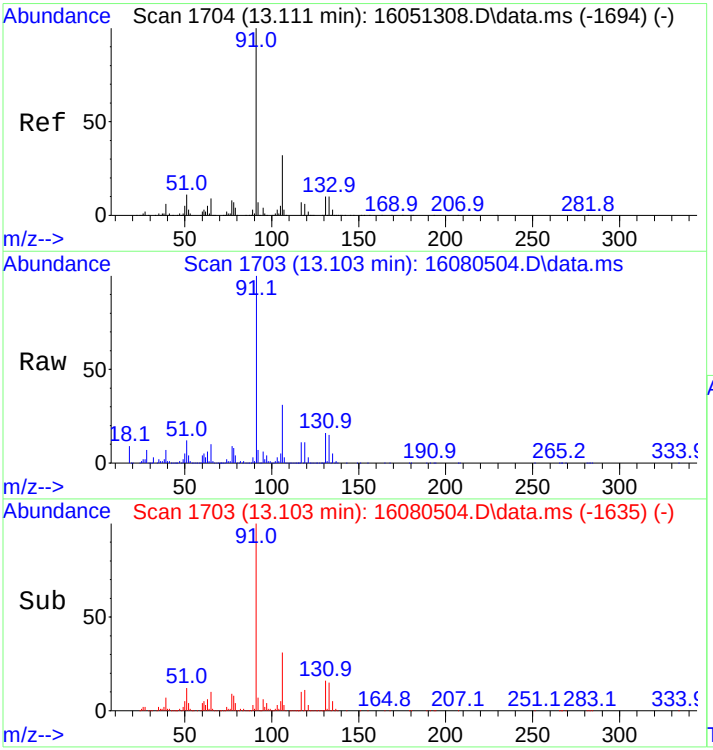


#40
1,1,1,2-Tetrachloroethane
Concen: 285.97 ng
RT: 13.096 min Scan# 1702
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:131 Resp: 94610

Ion	Ratio	Lower	Upper
131	100		
133	95.9	77.8	116.6
117	68.8	57.1	85.7
119	67.6	54.3	81.5

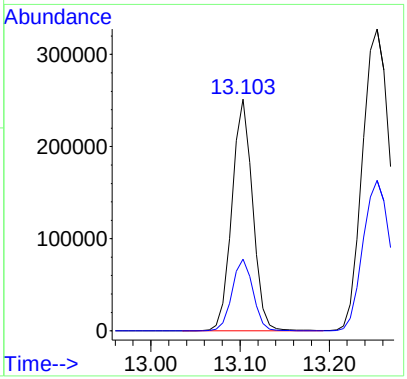


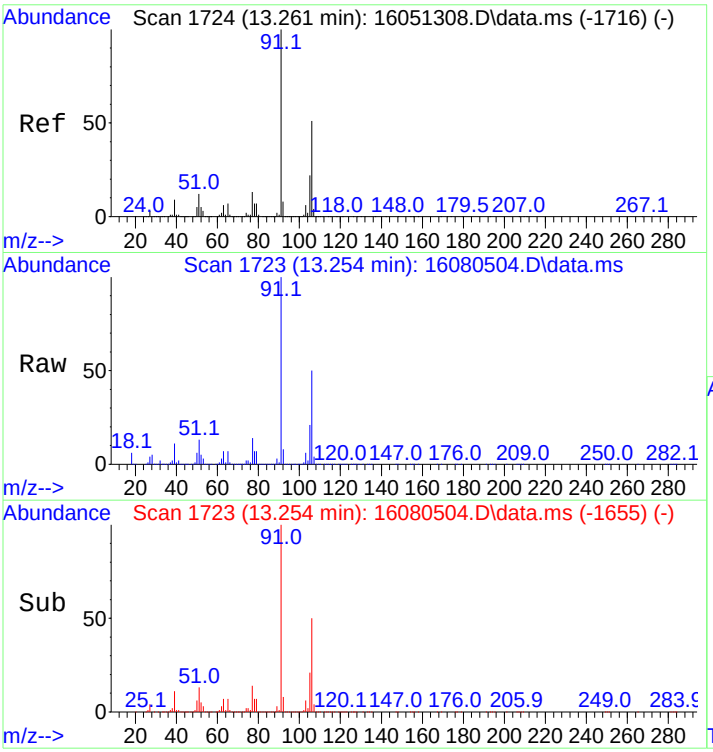


#41
Ethylbenzene
Concen: 235.53 ng
RT: 13.103 min Scan# 1703
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 405926

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.5	38.3

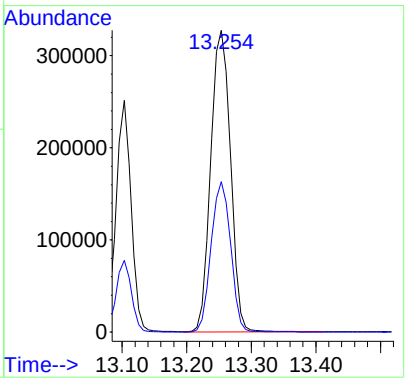


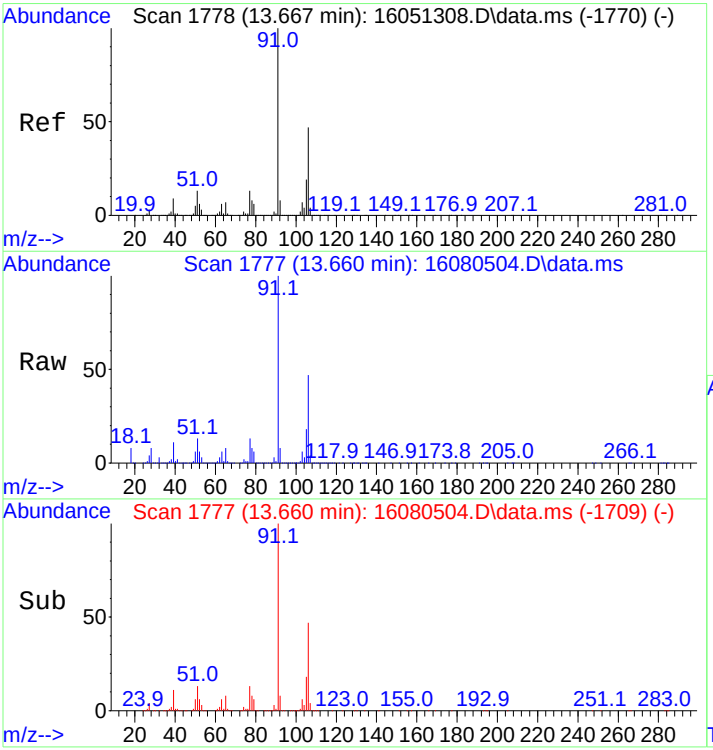


#42
M&P-Xylene
Concen: 476.50 ng
RT: 13.254 min Scan# 1723
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 698367

Ion	Ratio	Lower	Upper
91	100		
106	49.1	40.4	60.6

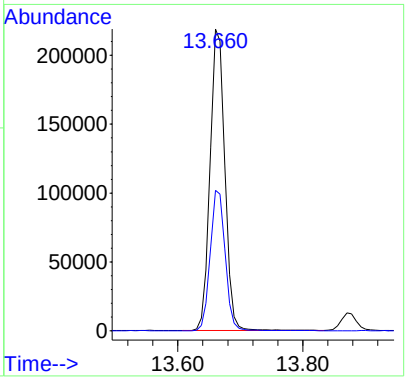


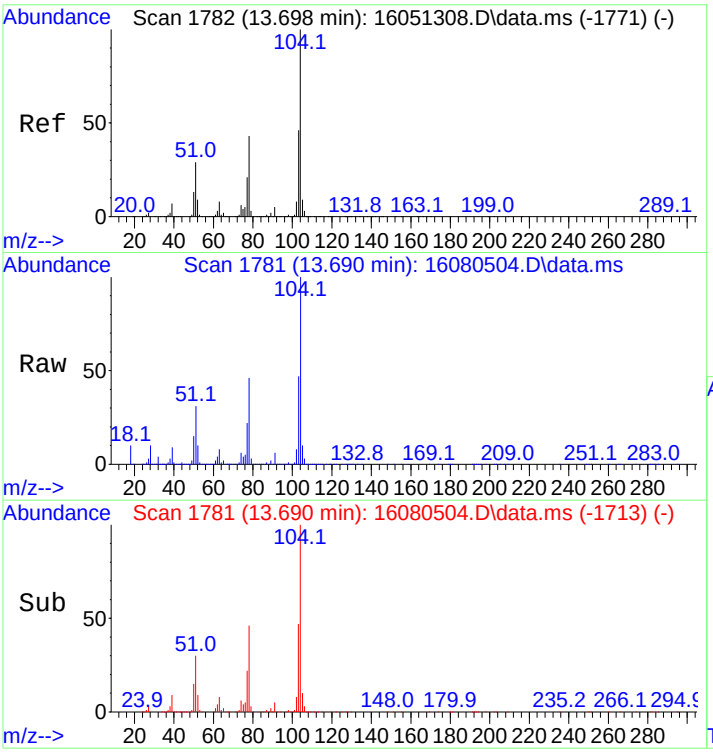


#43
O-Xylene
Concen: 237.25 ng
RT: 13.660 min Scan# 1777
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 360446

Ion	Ratio	Lower	Upper
91	100		
106	47.2	38.2	57.2

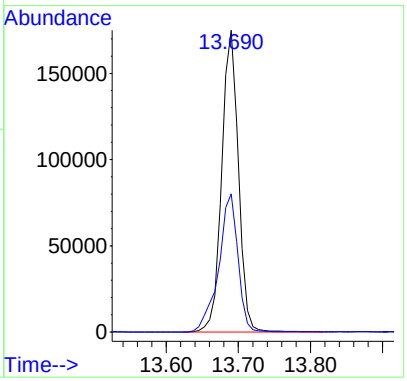


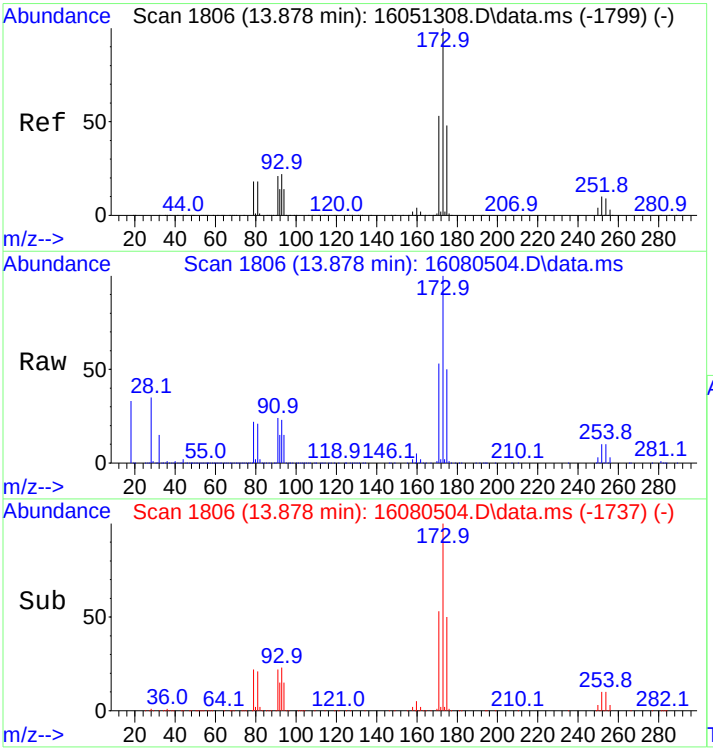


#44
Styrene
Concen: 217.32 ng
RT: 13.690 min Scan# 1781
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:104 Resp: 281827

Ion	Ratio	Lower	Upper
104	100		
78	53.0	39.8	59.6

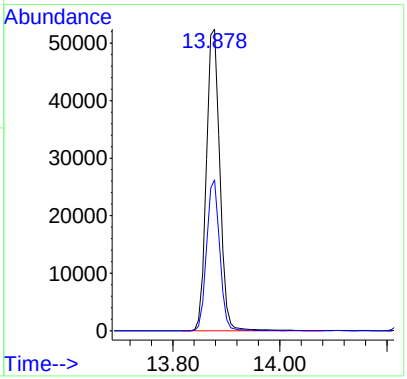


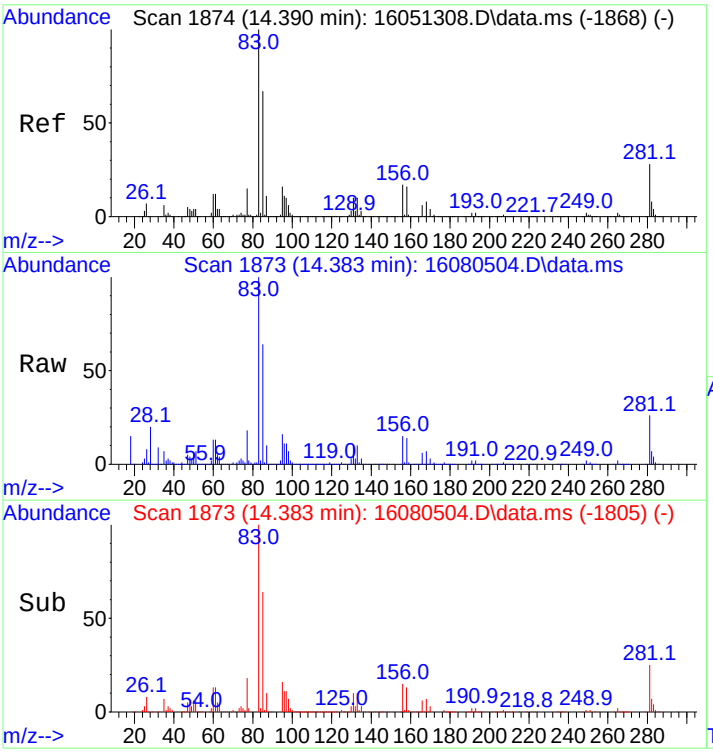


#45
Bromoform
Concen: 327.27 ng
RT: 13.878 min Scan# 1806
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:173 Resp: 91721

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.5	57.7

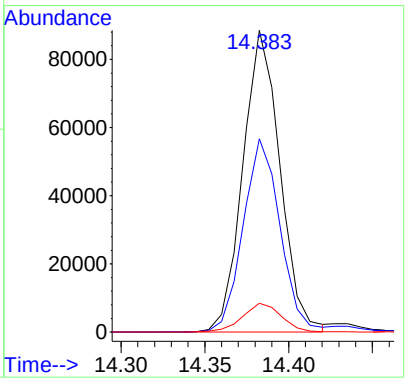


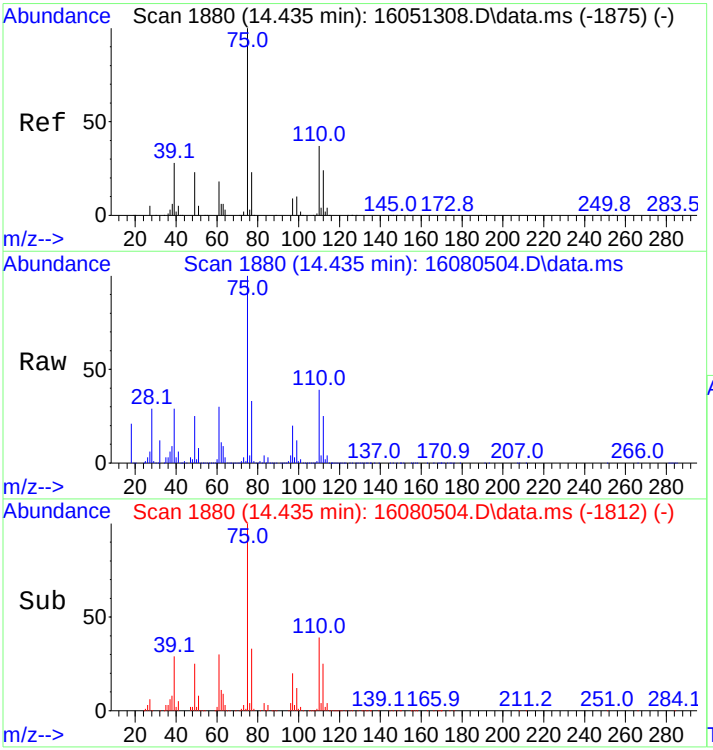


#46
1,1,2,2-Tetrachloroethane
Concen: 307.21 ng m
RT: 14.383 min Scan# 1873
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 83 Resp: 136066

Ion	Ratio	Lower	Upper
83	100		
85	63.8	53.1	79.7
131	10.1	8.9	13.3

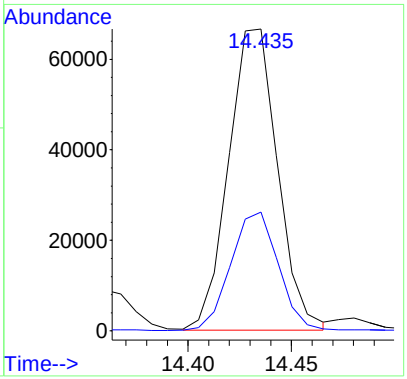


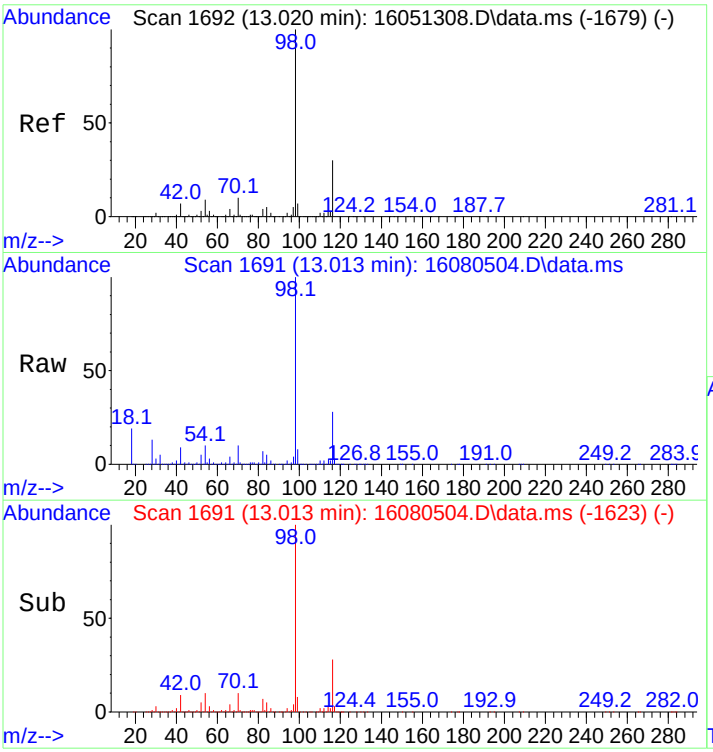


#47
1,2,3-Trichloropropane
Concen: 300.57 ng m
RT: 14.435 min Scan# 1880
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 109971

Ion	Ratio	Lower	Upper
75	100		
110	38.3	30.5	45.7

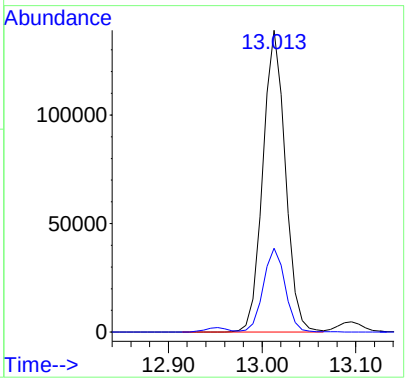


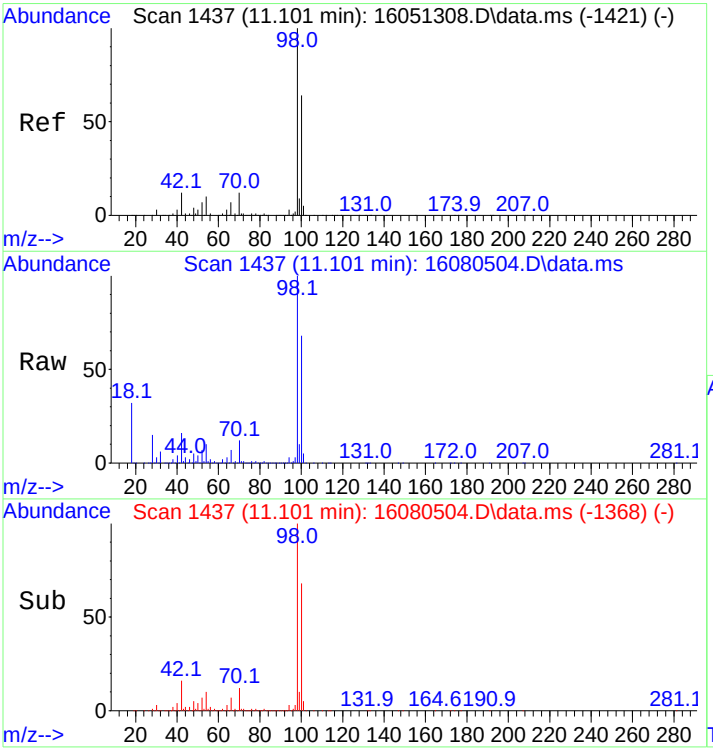


#48
d10-Ethylbenzene(SPK)
Concen: 220.35 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 98 Resp: 231657

Ion	Ratio	Lower	Upper
98	100		
116	27.2	23.4	35.0

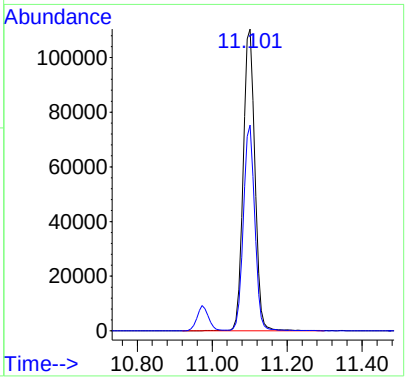


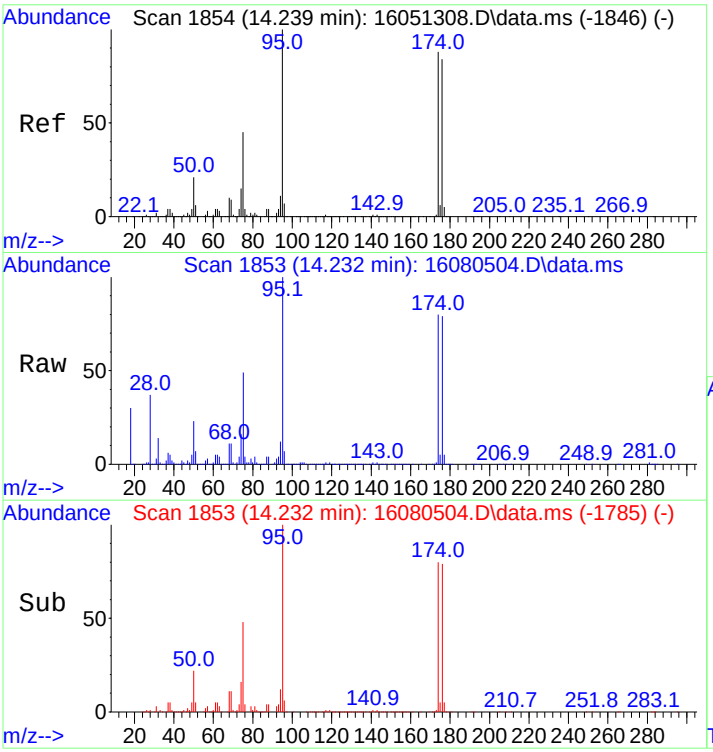


#49
d8-Toluene(SURR)
Concen: 264.80 ng
RT: 11.101 min Scan# 1437
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 98 Resp: 239934

Ion	Ratio	Lower	Upper
98	100		
100	66.6	56.0	84.0

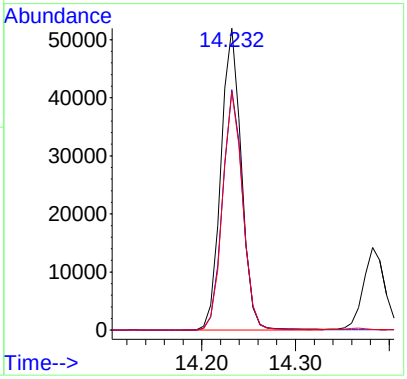


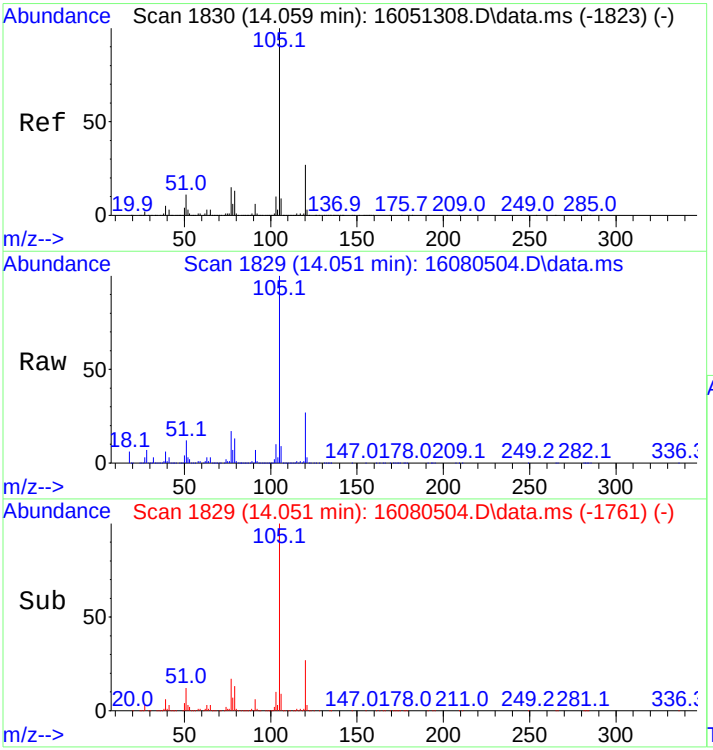


#50
4-Bromofluorobenzene(SURR)
Concen: 261.29 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 95 Resp: 78717

Ion	Ratio	Lower	Upper
95	100		
174	79.0	67.8	101.8
176	78.0	64.8	97.2

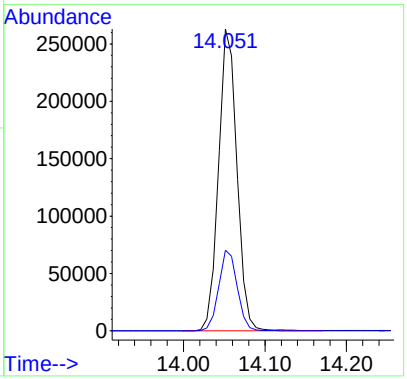


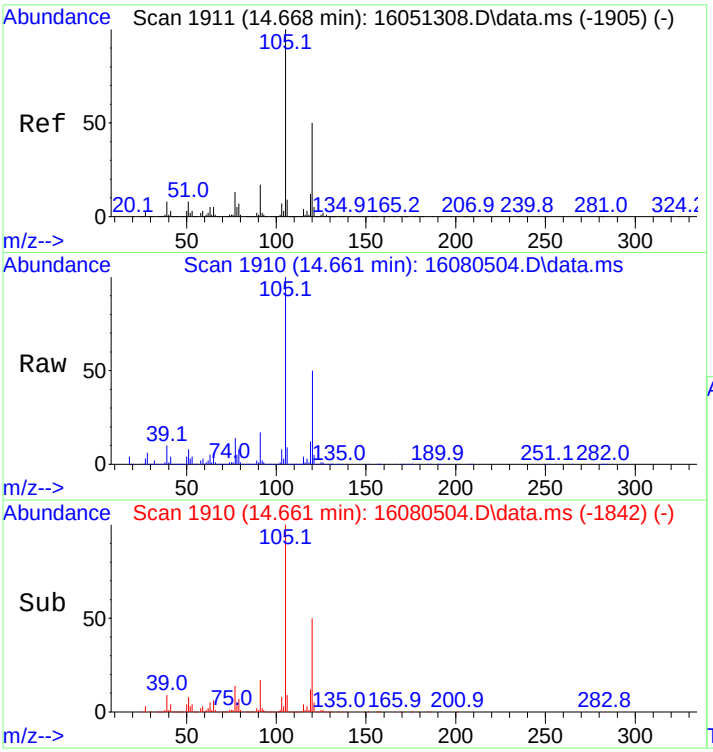


#51
Isopropylbenzene
Concen: 235.27 ng
RT: 14.051 min Scan# 1829
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 415417

Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.4	32.2

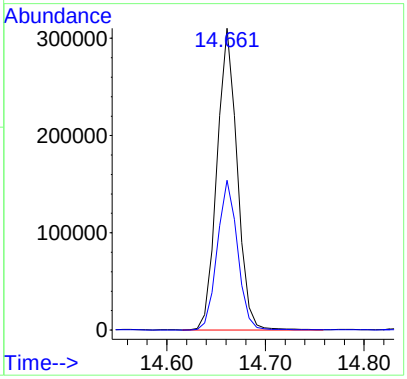


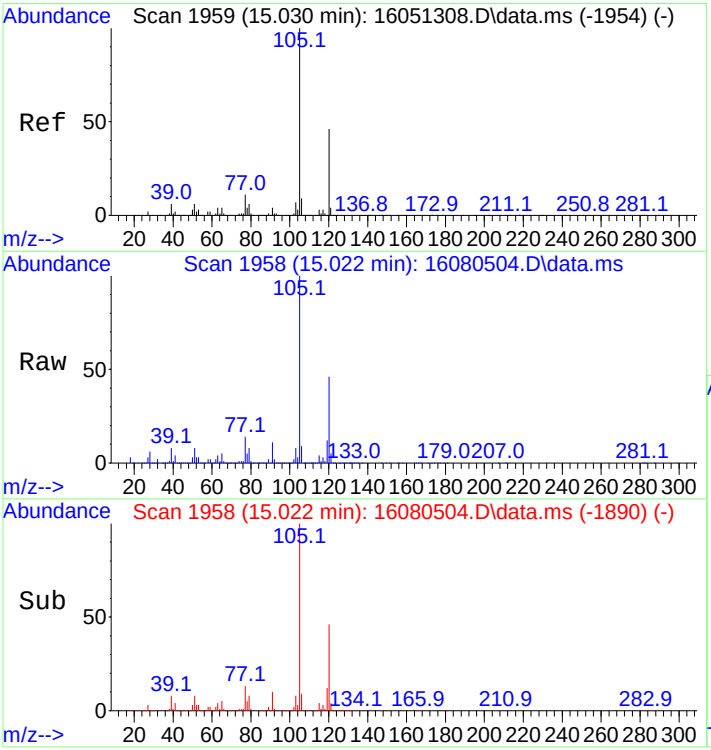


#52
1,3,5-Trimethylbenzene
Concen: 256.50 ng
RT: 14.661 min Scan# 1910
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 441383

Ion	Ratio	Lower	Upper
105	100		
120	49.9	39.9	59.9

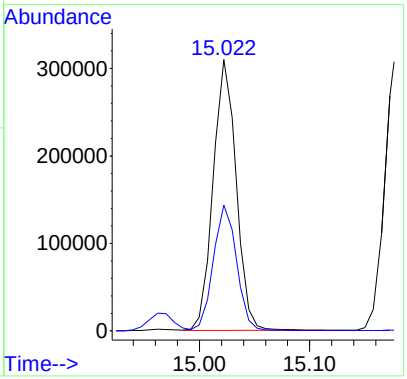


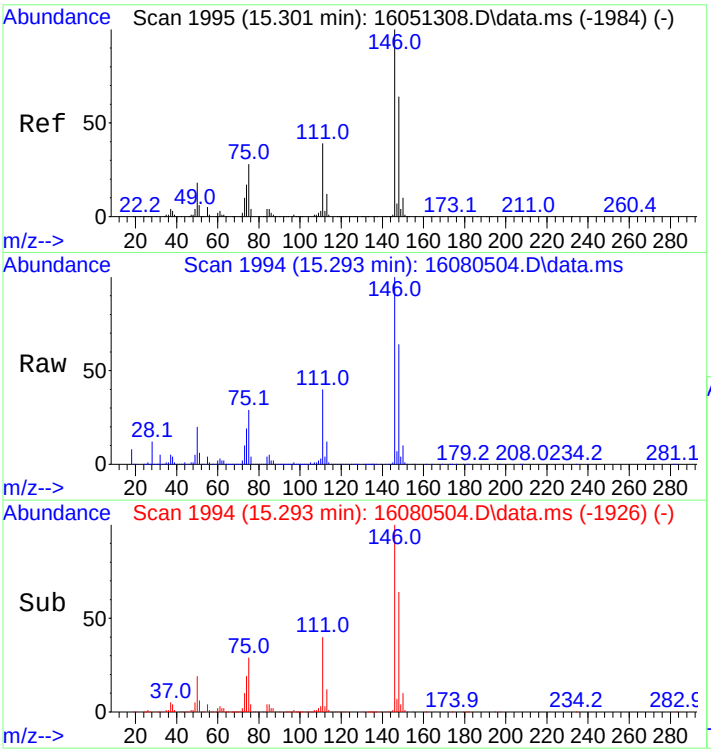


#53
1,2,4-Trimethylbenzene
Concen: 265.64 ng
RT: 15.022 min Scan# 1958
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 451354

Ion	Ratio	Lower	Upper
105	100		
120	46.8	37.5	56.3

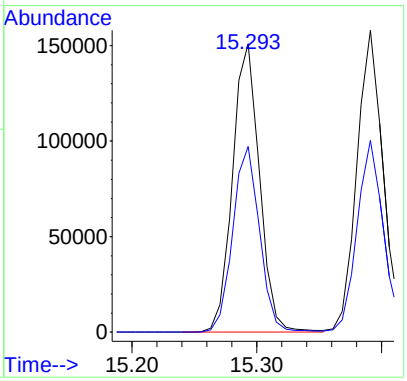


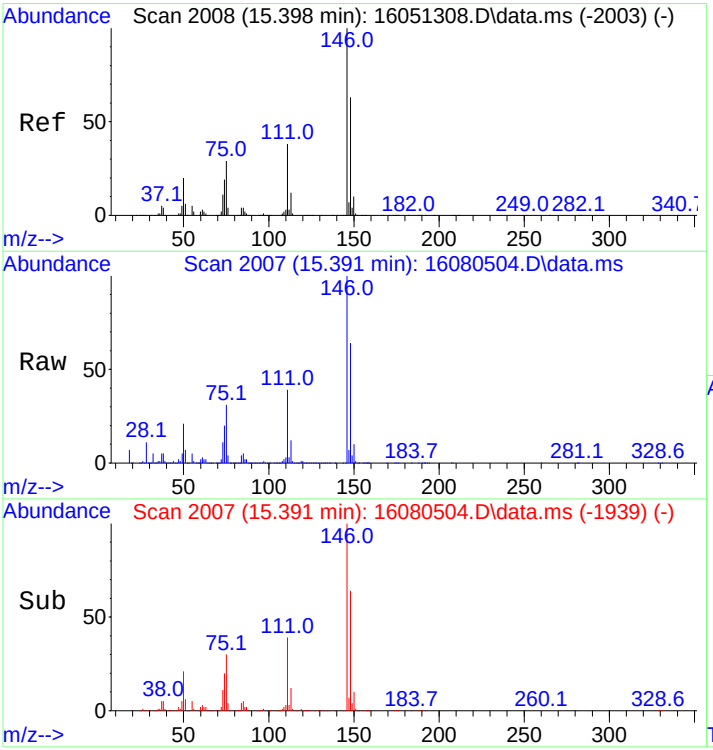


#54
1,3-Dichlorobenzene
Concen: 256.06 ng
RT: 15.293 min Scan# 1994
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:146 Resp: 227059

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.6	76.0

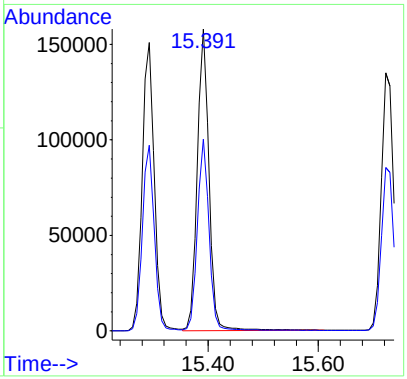


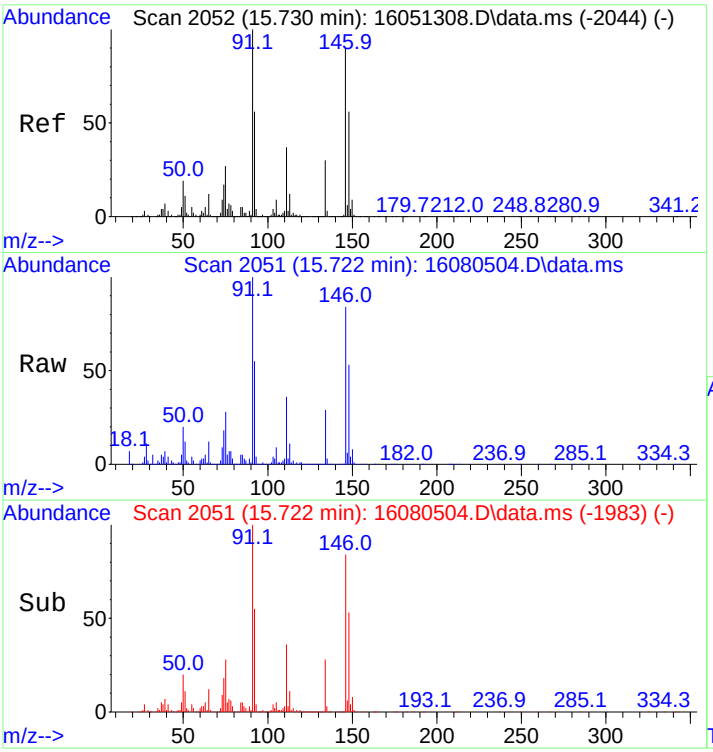


#55
1,4-Dichlorobenzene
Concen: 249.66 ng
RT: 15.391 min Scan# 2007
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:146 Resp: 234002

Ion	Ratio	Lower	Upper
146	100		
148	63.0	49.9	74.9

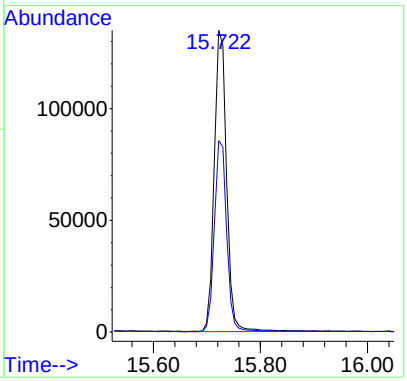


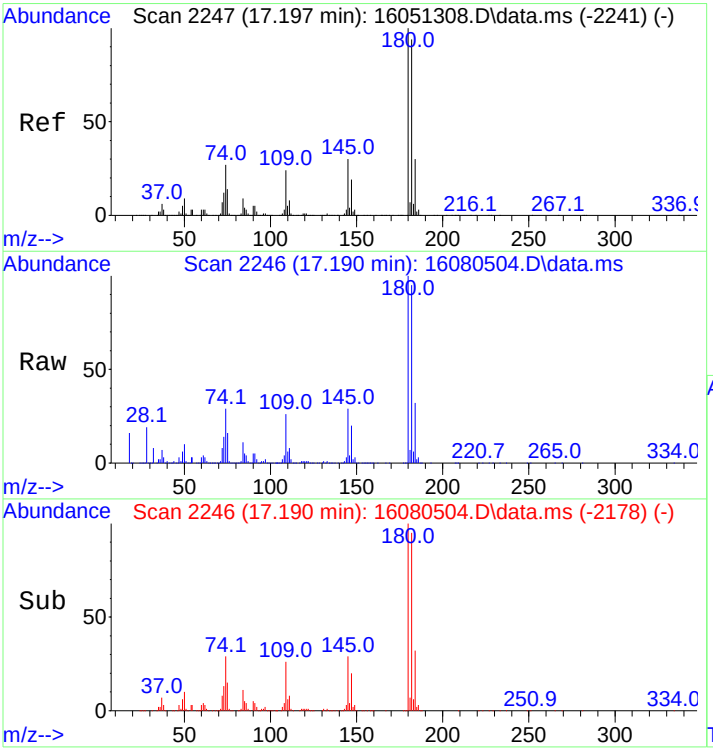


#56
1,2-Dichlorobenzene
Concen: 258.41 ng
RT: 15.722 min Scan# 2051
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:146 Resp: 216727

Ion	Ratio	Lower	Upper
146	100		
148	63.4	49.9	74.9

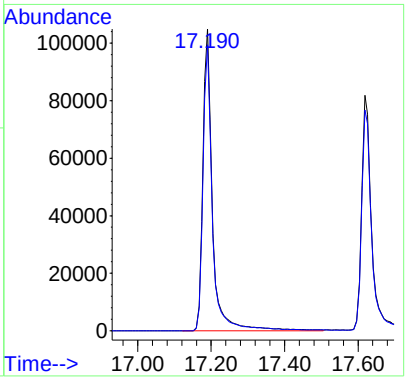


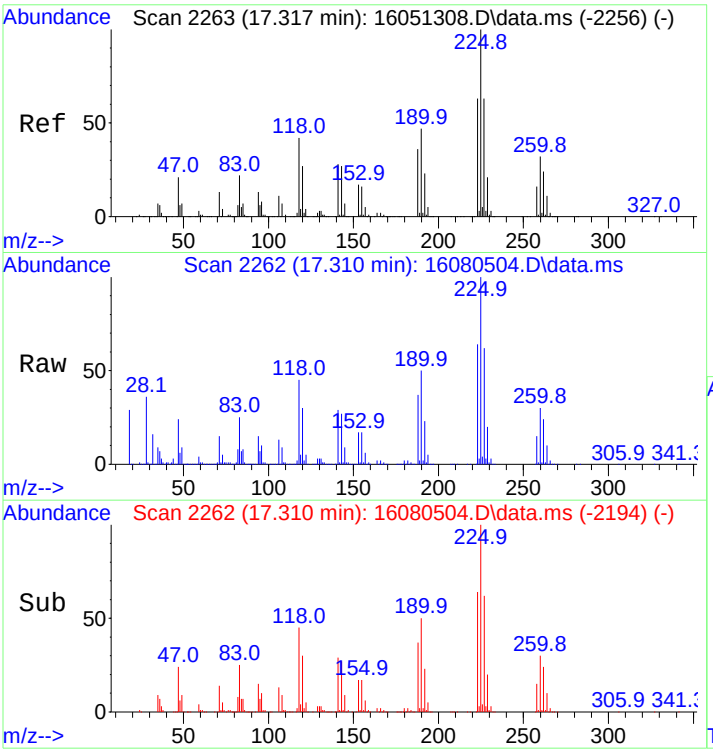


#57
1,2,4-Trichlorobenzene
Concen: 269.11 ng
RT: 17.190 min Scan# 2246
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:180 Resp: 191432

Ion	Ratio	Lower	Upper
180	100		
182	93.0	75.0	112.4

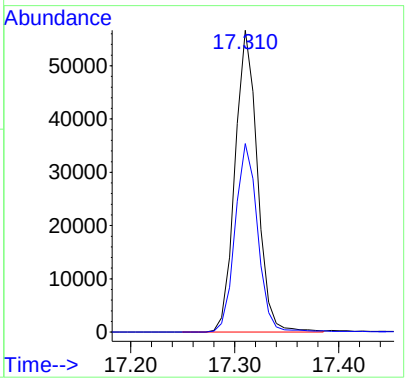


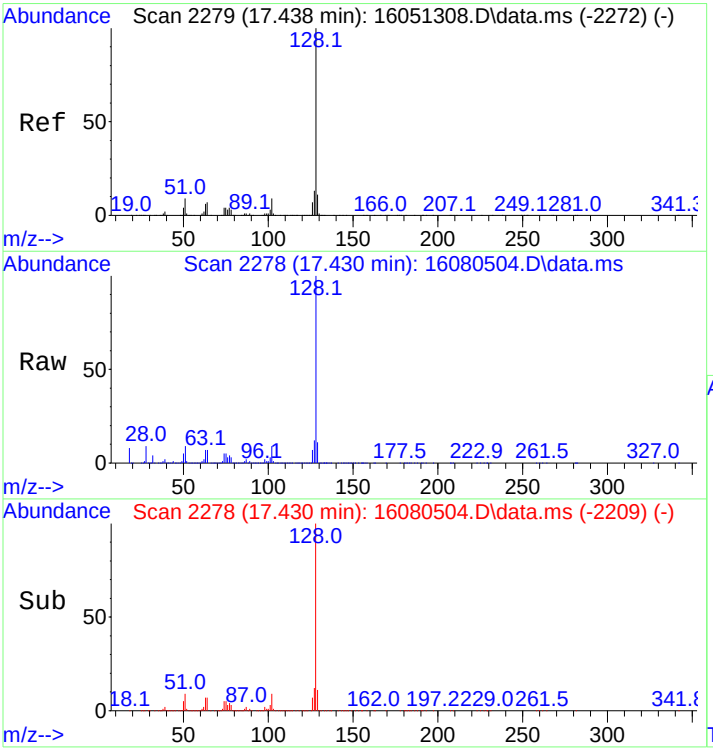


#58
Hexachlorobutadiene
Concen: 226.18 ng
RT: 17.310 min Scan# 2262
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:225 Resp: 84570

Ion	Ratio	Lower	Upper
225	100		
227	63.1	51.1	76.7

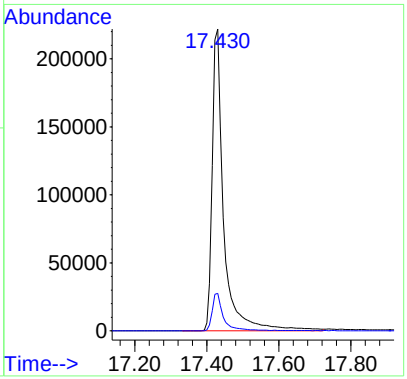


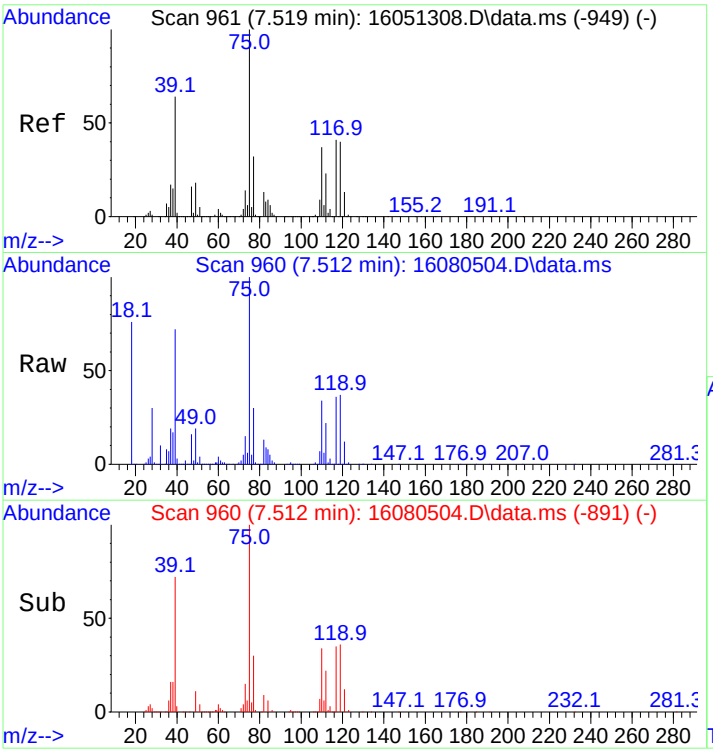


#59
Naphthalene
Concen: 282.44 ng
RT: 17.430 min Scan# 2278
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:128 Resp: 493148

Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.8	14.8

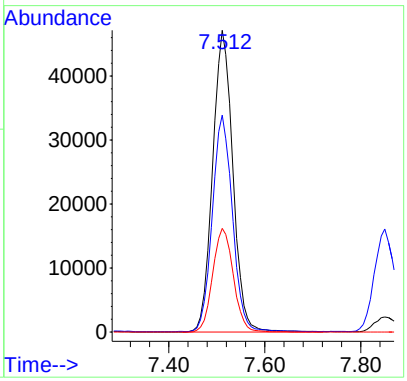


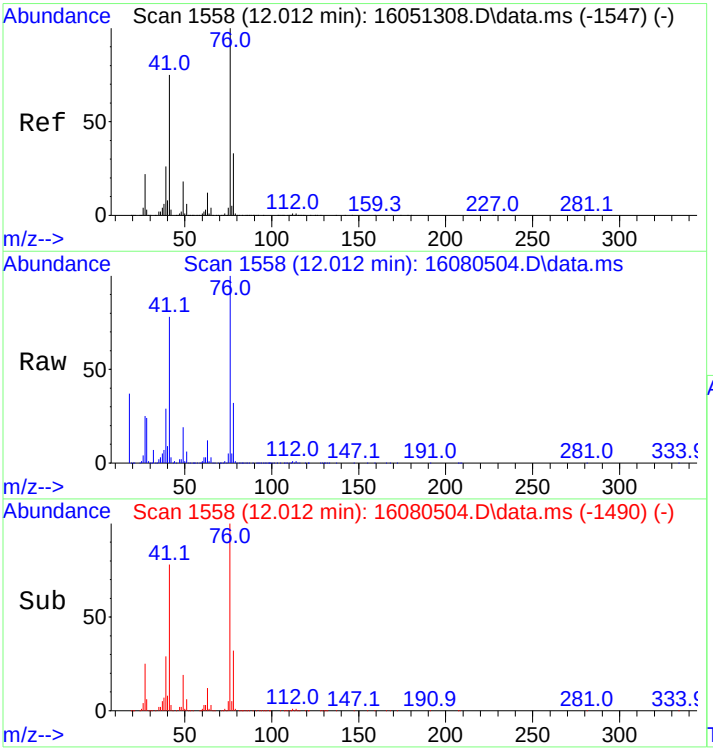


#60
1,1-Dichloropropene
Concen: 283.82 ng
RT: 7.512 min Scan# 960
Delta R.T. 0.023 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 75 Resp: 137965

Ion	Ratio	Lower	Upper
75	100		
39	71.4	51.8	77.6
110	35.0	29.3	43.9

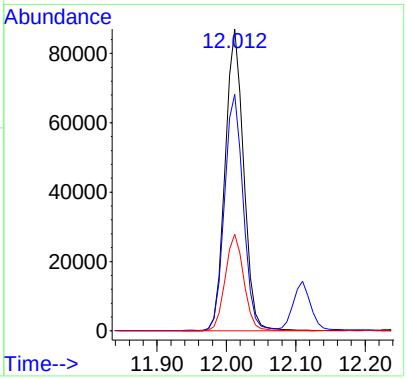


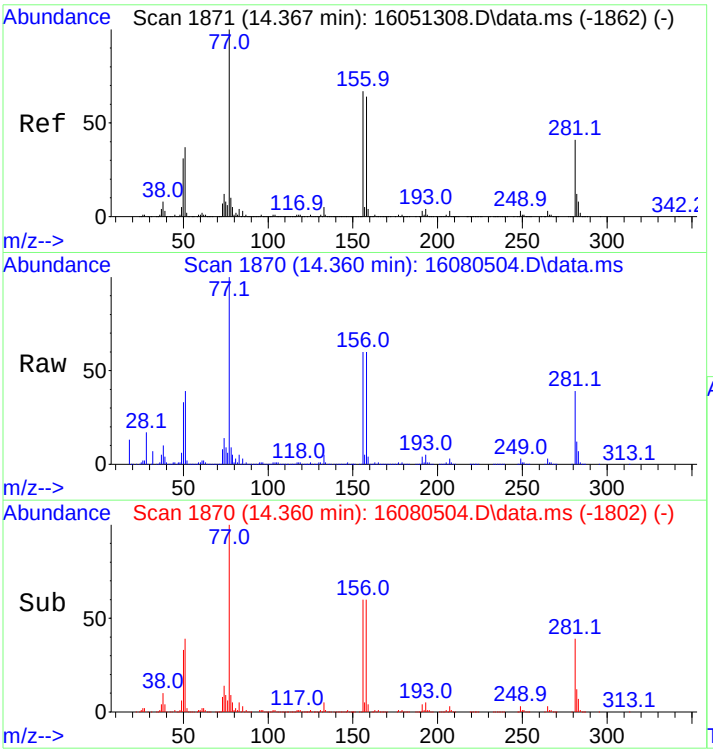


#61
1,3-Dichloropropane
Concen: 297.56 ng
RT: 12.012 min Scan# 1558
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 76 Resp: 161328

Ion	Ratio	Lower	Upper
76	100		
41	79.1	58.2	87.4
78	32.2	26.1	39.1

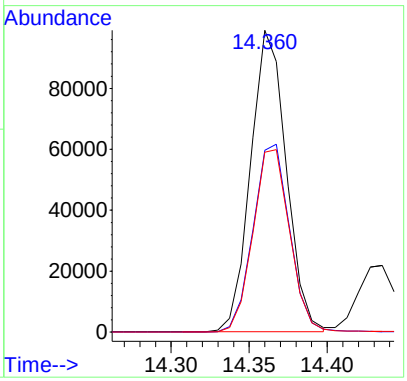


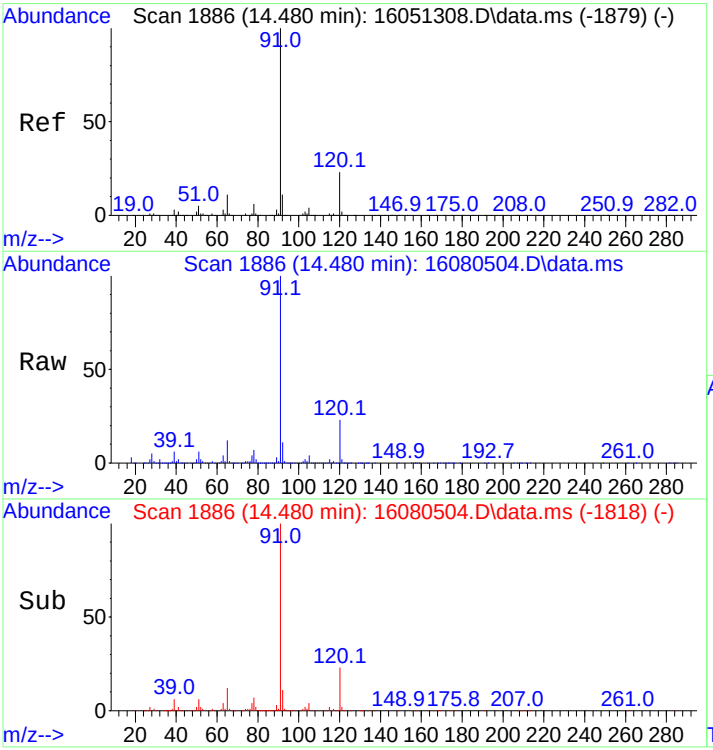


#62
Bromobenzene
Concen: 249.58 ng
RT: 14.360 min Scan# 1870
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 77 Resp: 156832

Ion	Ratio	Lower	Upper
77	100		
156	64.3	55.0	82.4
158	62.9	53.3	79.9

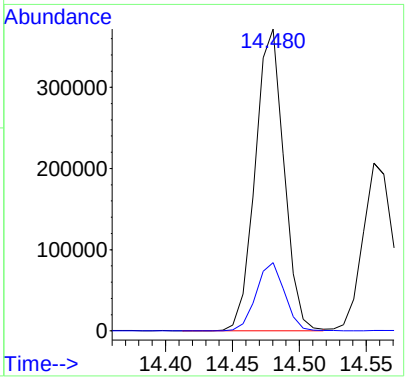


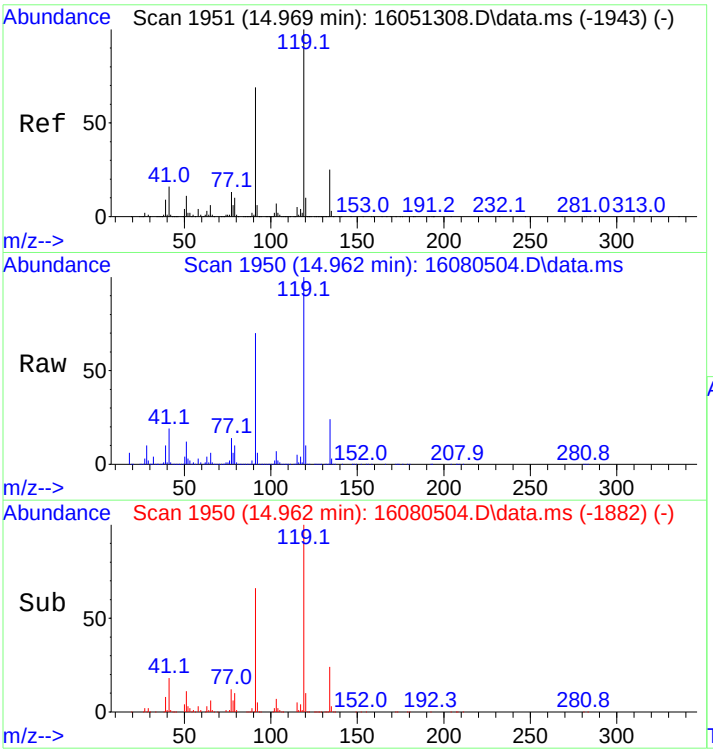


#63
n-Propylbenzene
Concen: 249.36 ng
RT: 14.480 min Scan# 1886
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 557203

Ion	Ratio	Lower	Upper
91	100		
120	22.5	18.6	28.0

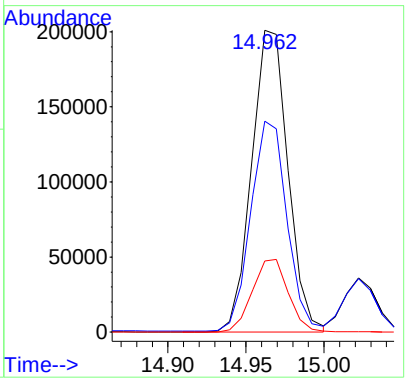


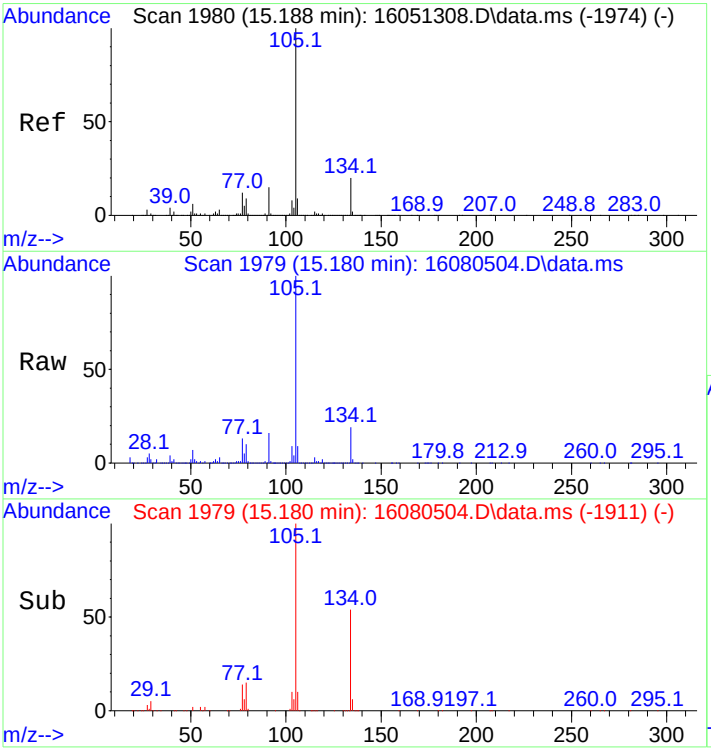


#64
tert-Butylbenzene
Concen: 243.51 ng
RT: 14.962 min Scan# 1950
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:119 Resp: 325728

Ion	Ratio	Lower	Upper
119	100		
91	69.3	54.0	81.0
134	24.0	19.9	29.9

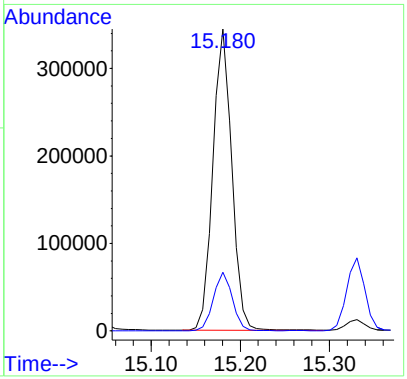


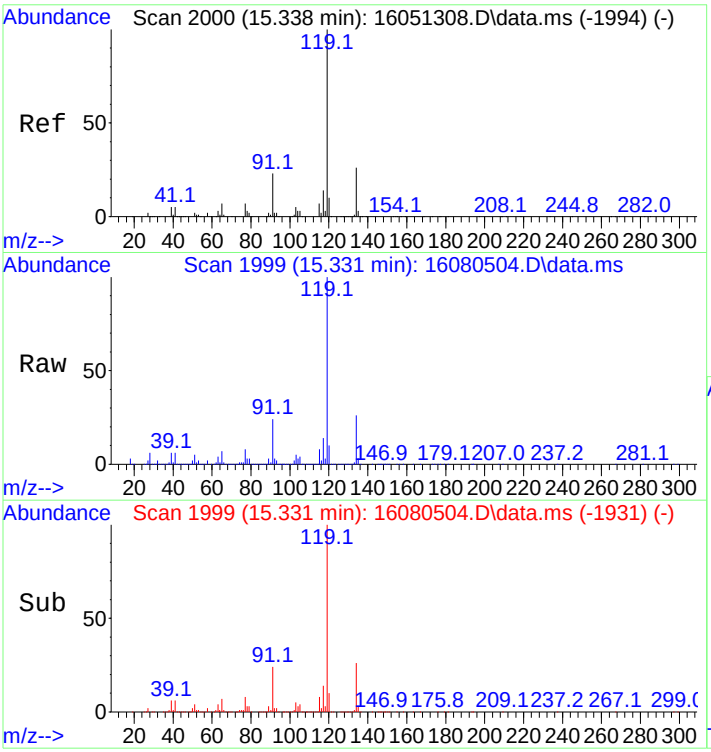


#65
sec-Butylbenzene
Concen: 246.17 ng
RT: 15.180 min Scan# 1979
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:105 Resp: 507443

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.7	23.5

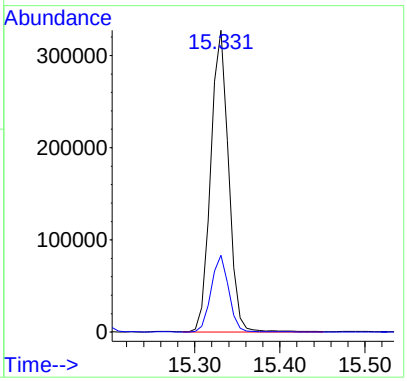


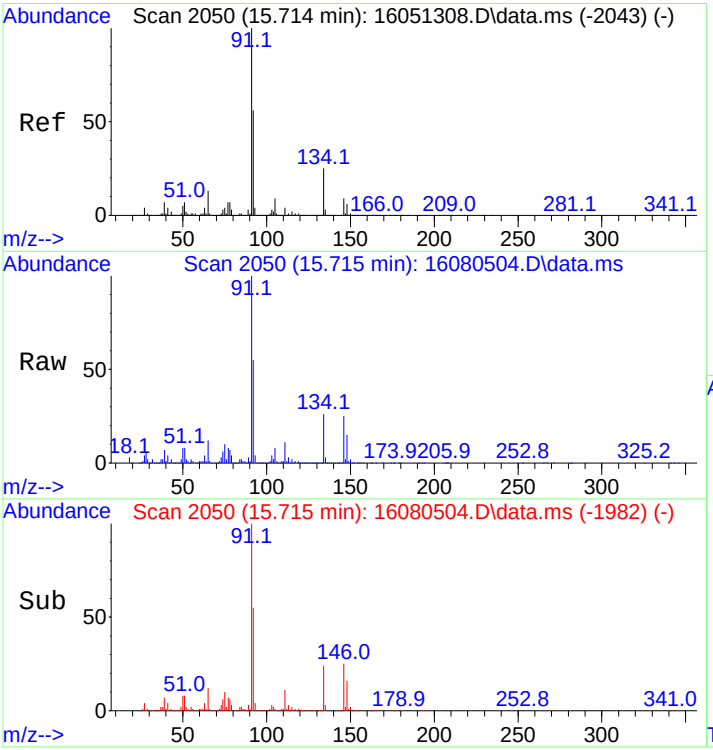


#66
p-Isopropyltoluene
Concen: 263.18 ng
RT: 15.331 min Scan# 1999
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:119 Resp: 478260

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.6	31.0

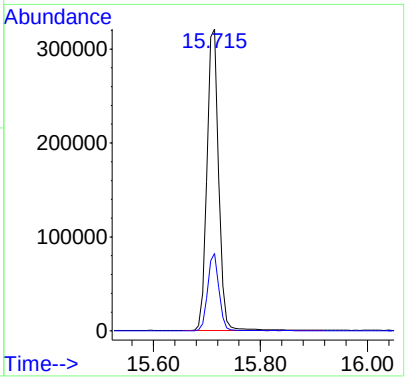


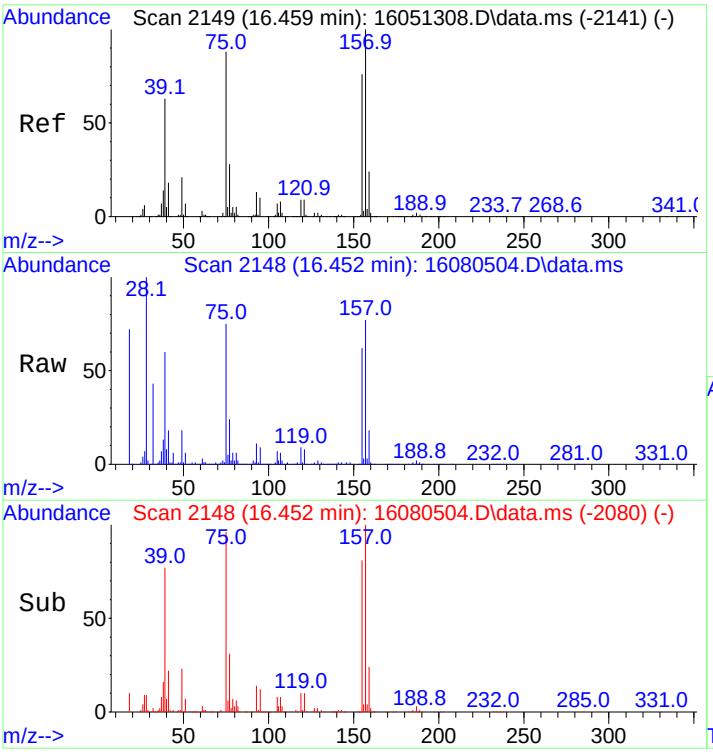


#67
n-Butylbenzene
Concen: 277.54 ng
RT: 15.715 min Scan# 2050
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion: 91 Resp: 487598

Ion	Ratio	Lower	Upper
91	100		
134	24.8	21.0	31.6

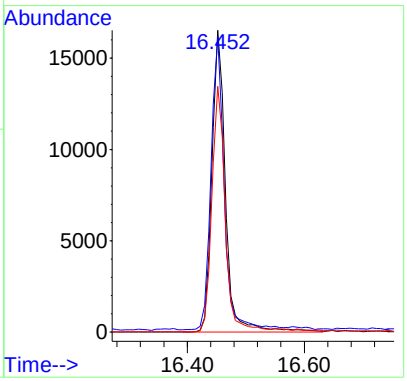




#68
1,2-Dibromo-3-chloropropane
Concen: 242.46 ng
RT: 16.452 min Scan# 2148
Delta R.T. 0.015 min
Lab File: 16080504.D
Acq: 5 Aug 2016 1:35 pm

Tgt Ion:157 Resp: 26748

Ion	Ratio	Lower	Upper
157	100		
75	94.5	68.6	103.0
155	78.5	62.2	93.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080505.D
Acq On : 5 Aug 2016 2:14 pm
Operator : SG Instrument MSD-3
Sample : VOST-Blank
Misc : Coder SG
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 14:28:08 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.759	130	94468	250.00	ng	0.04
20) 1,4-Difluorobenzene	8.693	114	436046	250.00	ng	0.03
32) d5-Chlorobenzene	12.945	117	318832	250.00	ng	0.01
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.843	65	196496	332.68	ng	0.03
Spiked Amount 250.000			Recovery = 133.07%			
48) d10-Ethylbenzene(SPK)	13.013	98	484677	221.16	ng	0.01
Spiked Amount 200.000			Recovery = 110.58%			
49) d8-Toluene(SURR)	11.101	98	509689	269.85	ng	0.02
Spiked Amount 250.000			Recovery = 107.94%			
50) 4-Bromofluorobenzene(S...	14.232	95	147840	235.41	ng	0.01
Spiked Amount 250.000			Recovery = 94.16%			
Target Compounds						Qvalue
8) 1,1-Dichloroethene	0.000		0	N.D.	d	
23) Benzene	7.858	78	29153	9.24	ng	98
25) Trichloroethene	0.000		0	N.D.	d	
33) Toluene	11.199	91	11047m	3.49	ng	
39) Chlorobenzene	0.000		0	N.D.	d	

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

VOST160513Q7PTrev(RT).M Thu Aug 25 14:37:30 2016

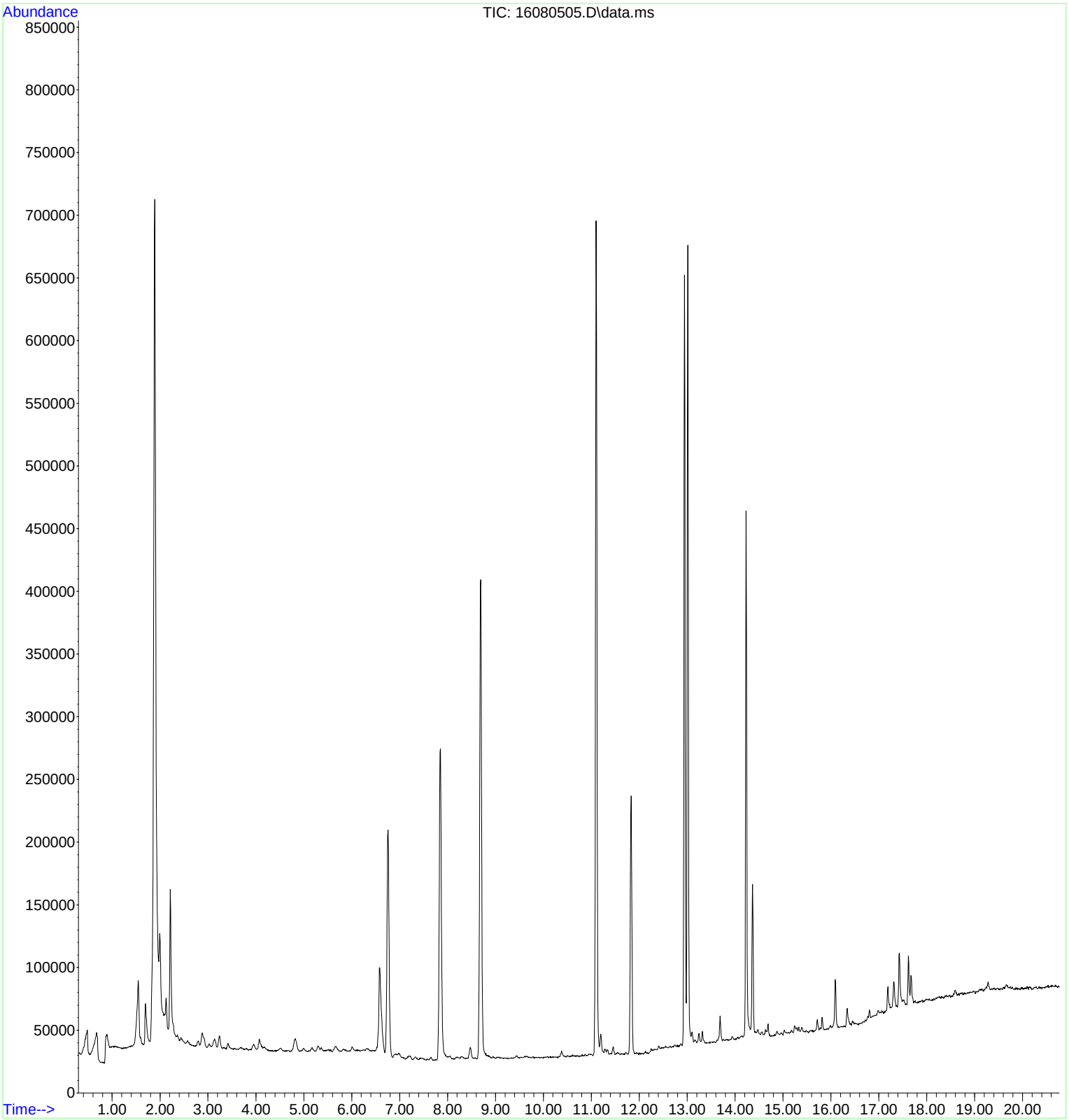
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

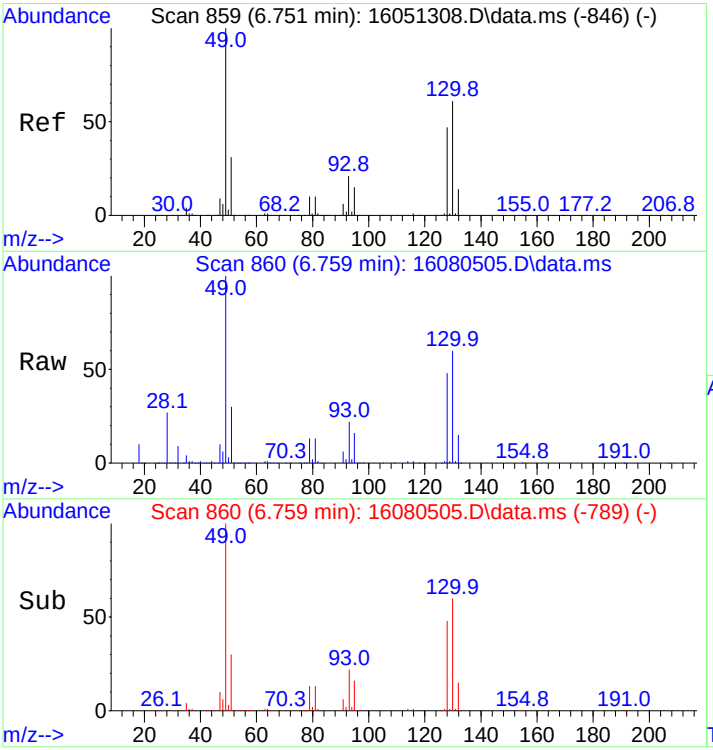
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080505.D
Acq On : 5 Aug 2016 2:14 pm
Operator : SG Instrument MSD-3
Sample : VOST-Blank
Misc : Coder SG
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 12:55:31 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

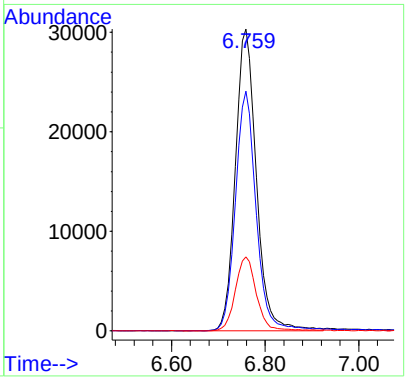


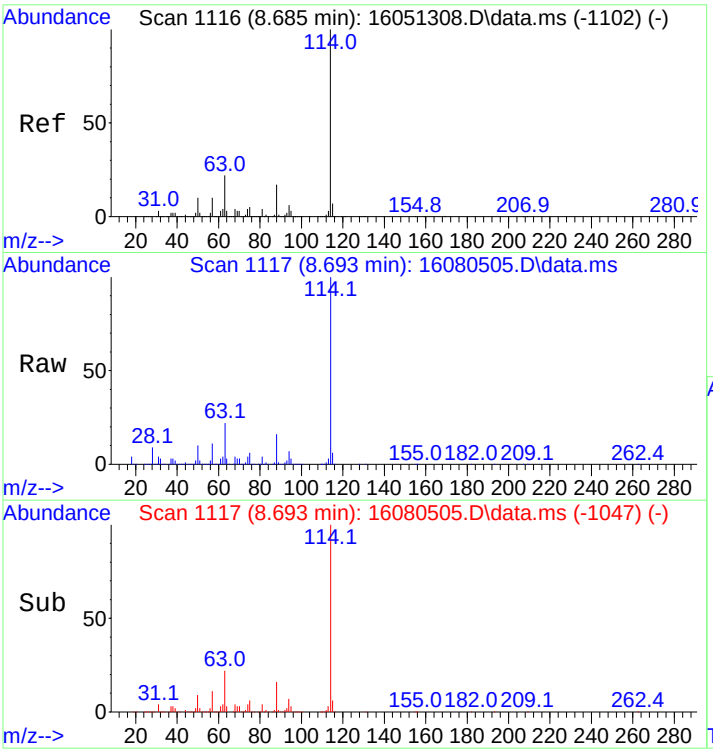


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.759 min Scan# 860
Delta R.T. 0.038 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion:130 Resp: 94468

Ion	Ratio	Lower	Upper
130	100		
128	78.5	63.0	94.4
132	24.7	19.9	29.9

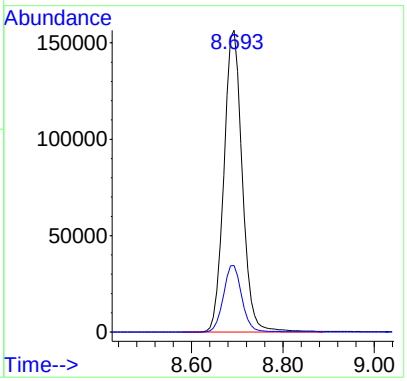


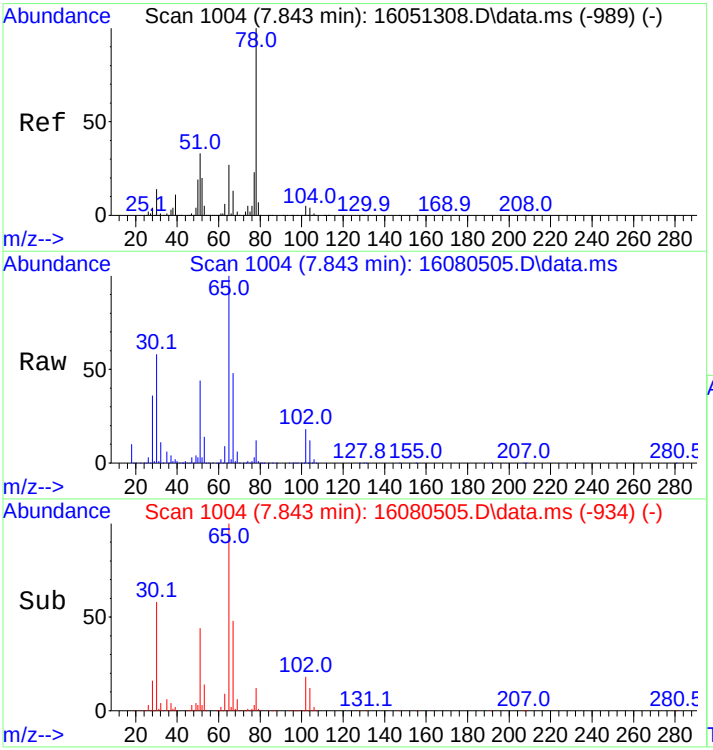


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.693 min Scan# 1117
Delta R.T. 0.030 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion:114 Resp: 436046

Ion	Ratio	Lower	Upper
114	100		
63	22.3	17.8	26.8

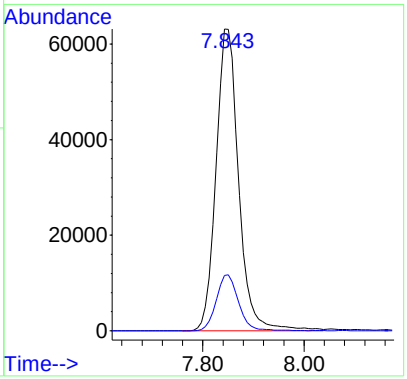


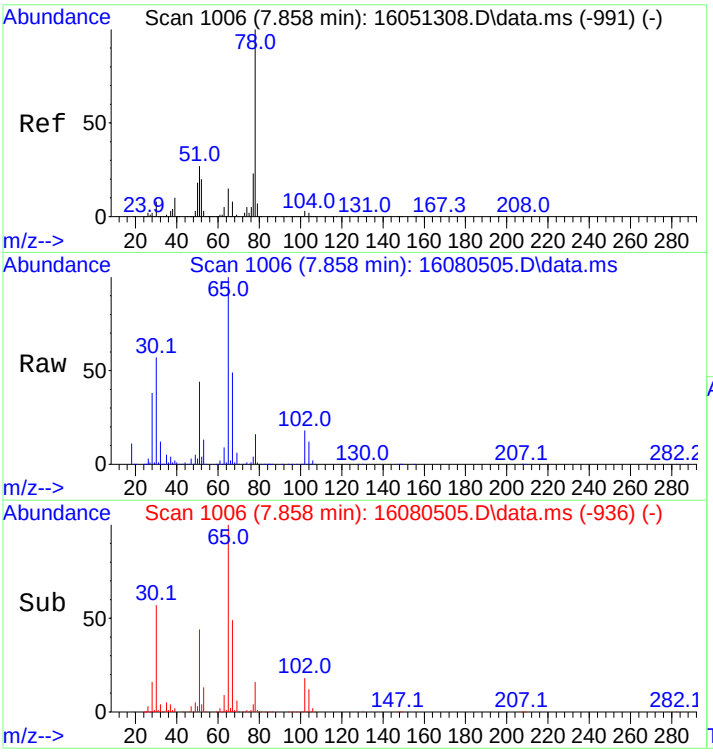


#21
d4-1,2-Dichloroethane(SURR)
Concen: 332.68 ng
RT: 7.843 min Scan# 1004
Delta R.T. 0.030 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 65 Resp: 196496

Ion	Ratio	Lower	Upper
65	100		
102	18.3	16.5	24.7

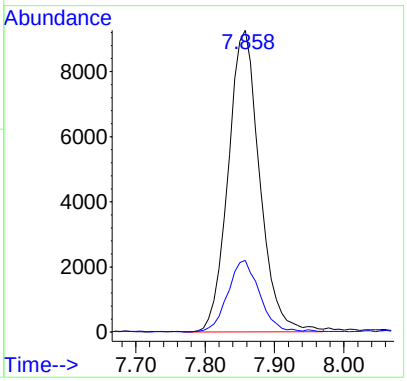


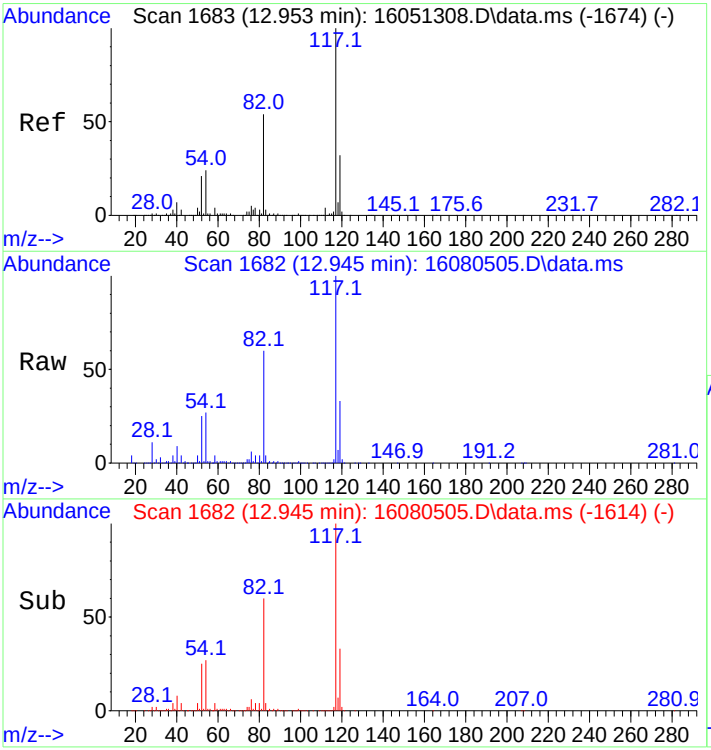


#23
Benzene
Concen: 9.24 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.030 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 78 Resp: 29153

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.3	27.5

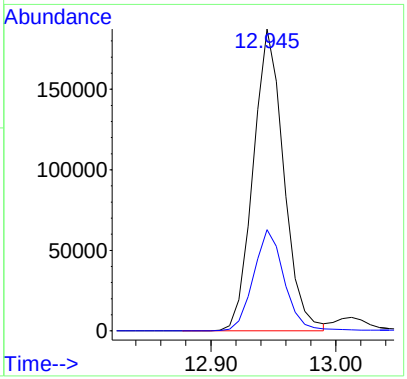


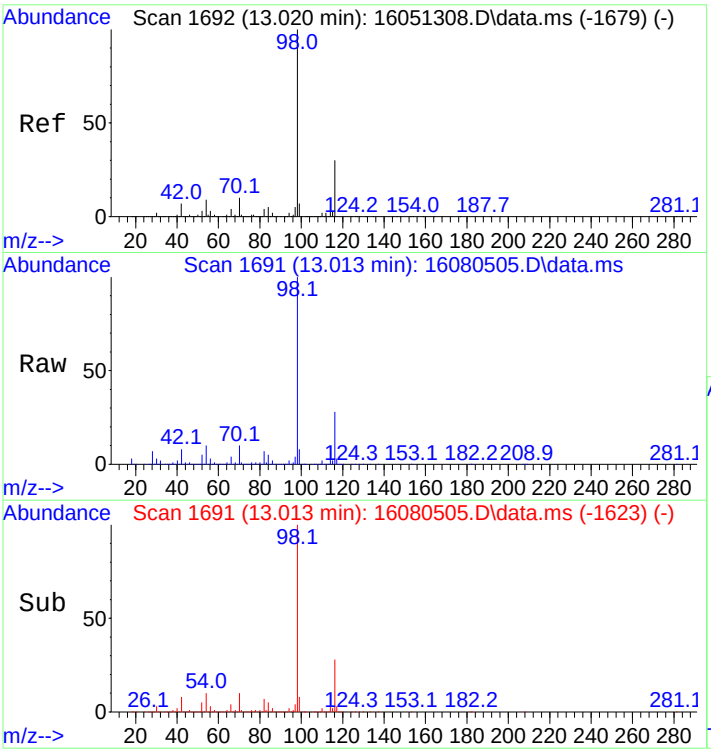


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.945 min Scan# 1682
Delta R.T. 0.015 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion:117 Resp: 318832

Ion	Ratio	Lower	Upper
117	100		
119	34.1	25.8	38.8

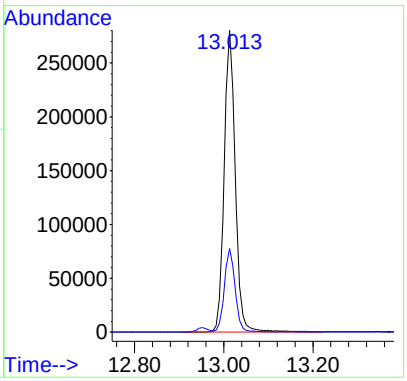


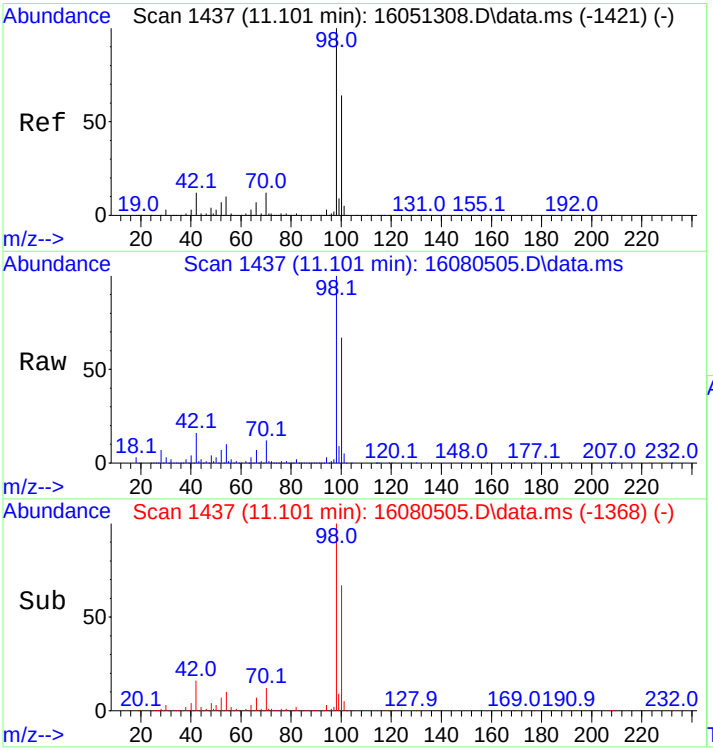


#48
d10-Ethylbenzene(SPK)
Concen: 221.16 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 98 Resp: 484677

Ion	Ratio	Lower	Upper
98	100		
116	26.8	23.4	35.0

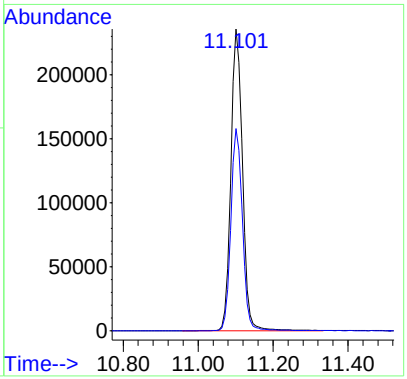


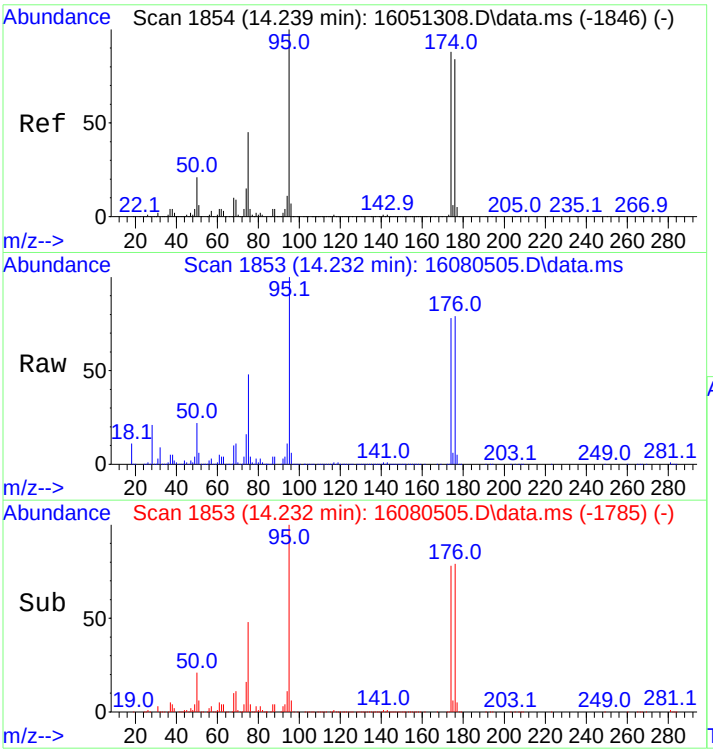


#49
d8-Toluene(SURR)
Concen: 269.85 ng
RT: 11.101 min Scan# 1437
Delta R.T. 0.022 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 98 Resp: 509689

Ion	Ratio	Lower	Upper
98	100		
100	66.9	56.0	84.0

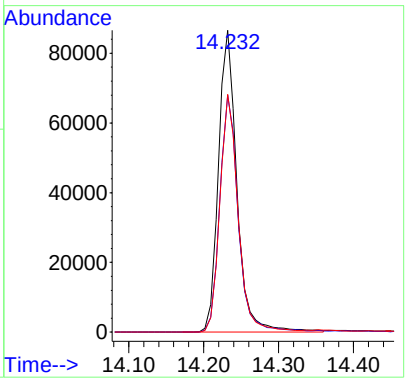


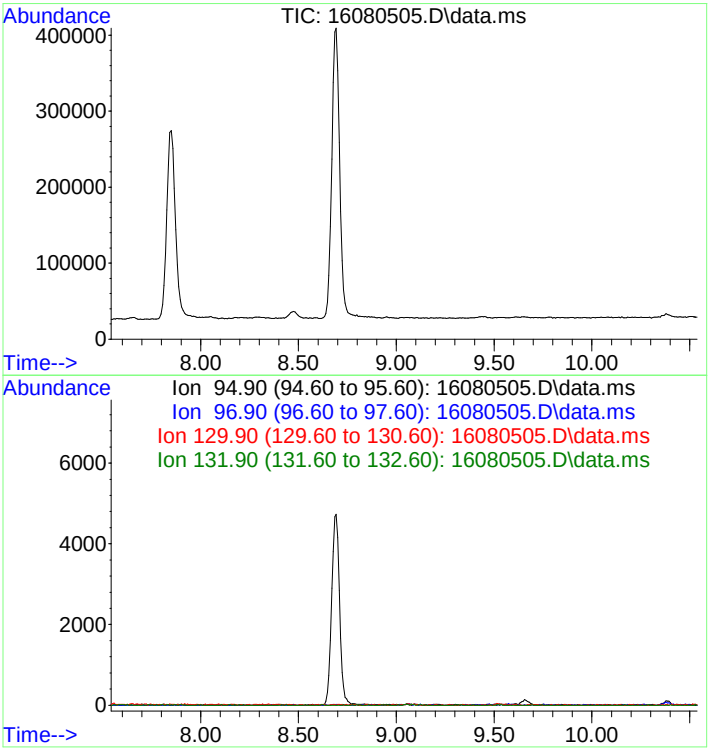


#50
4-Bromofluorobenzene(SURR)
Concen: 235.41 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 95 Resp: 147840

Ion	Ratio	Lower	Upper
95	100		
174	78.9	67.8	101.8
176	77.9	64.8	97.2



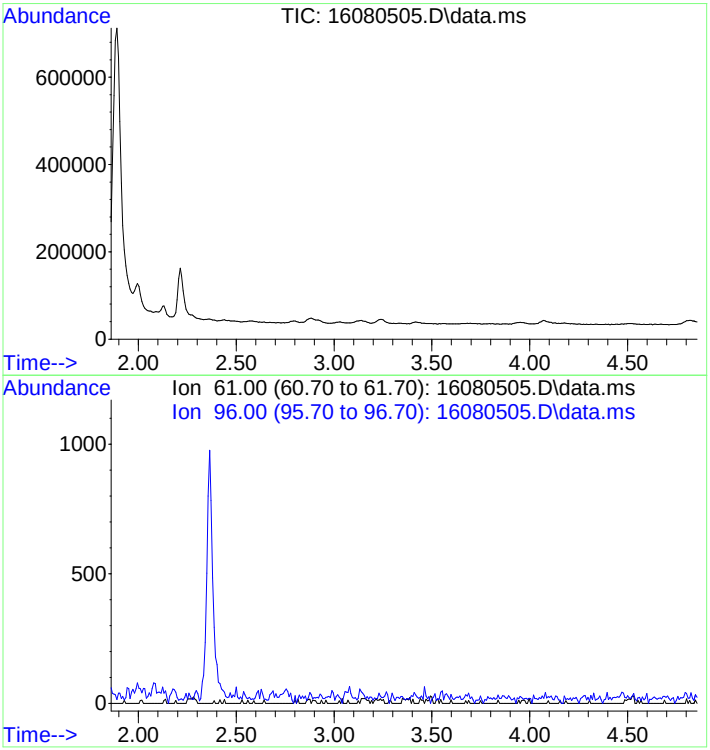


#25
Trichloroethene
Concen: Below Cal
Expected RT: 9.04 min

Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

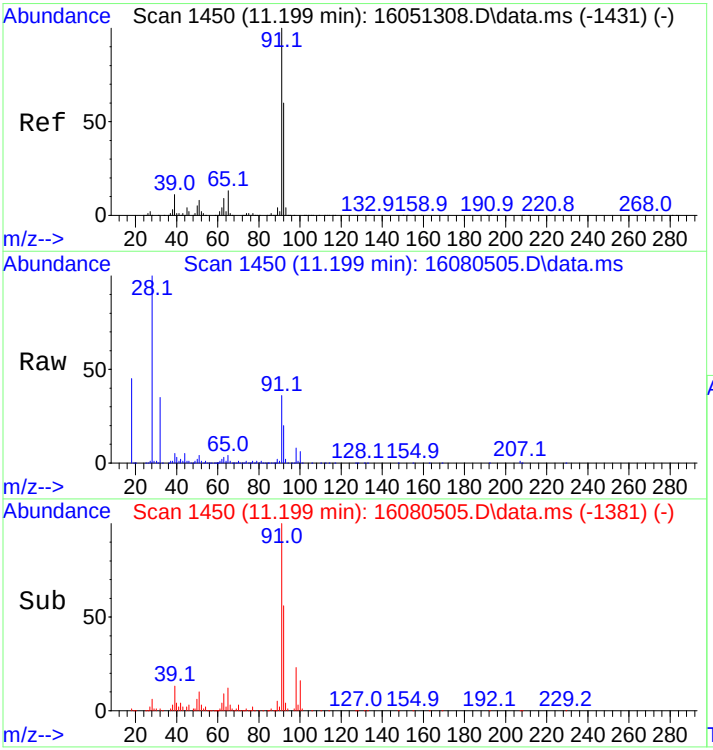


#8
1,1-Dichloroethene
Concen: Below Cal
Expected RT: 3.36 min

Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 61

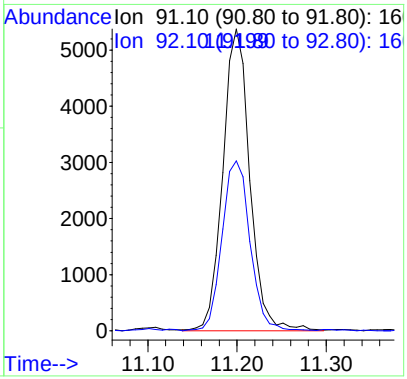
Sig	Exp Ratio
61	100
96	55.1

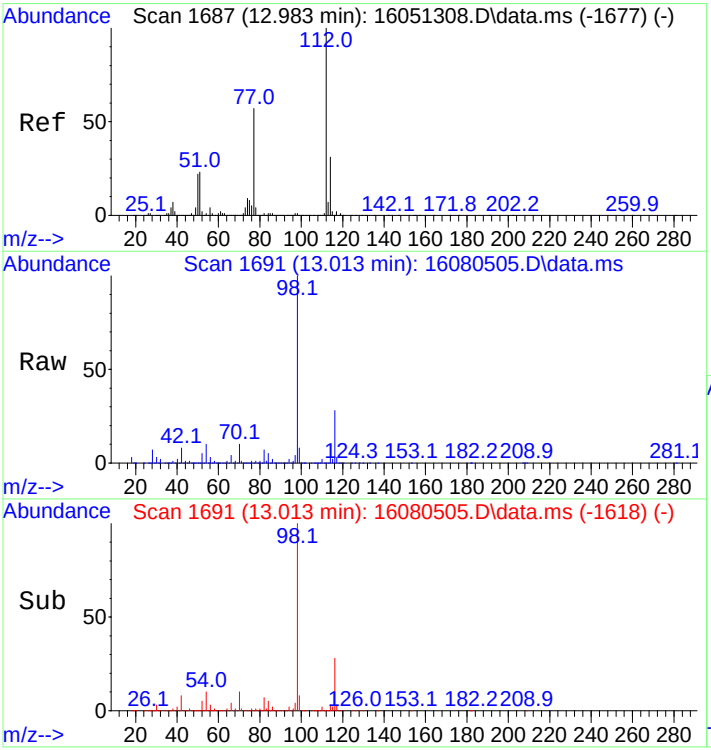


#33
Toluene
Concen: 3.57 ng
RT: 11.199 min Scan# 1450
Delta R.T. 0.022 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 91 Resp: 11298

Ion	Ratio	Lower	Upper
91	100		
92	58.5	48.6	73.0

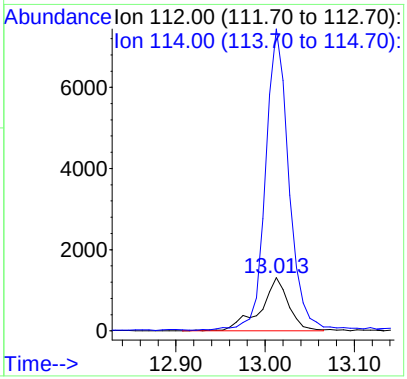




#39
Chlorobenzene
Concen: 1.48 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.053 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion:112 Resp: 2873

Ion	Ratio	Lower	Upper
112	100		
114	476.9	27.5	41.3#



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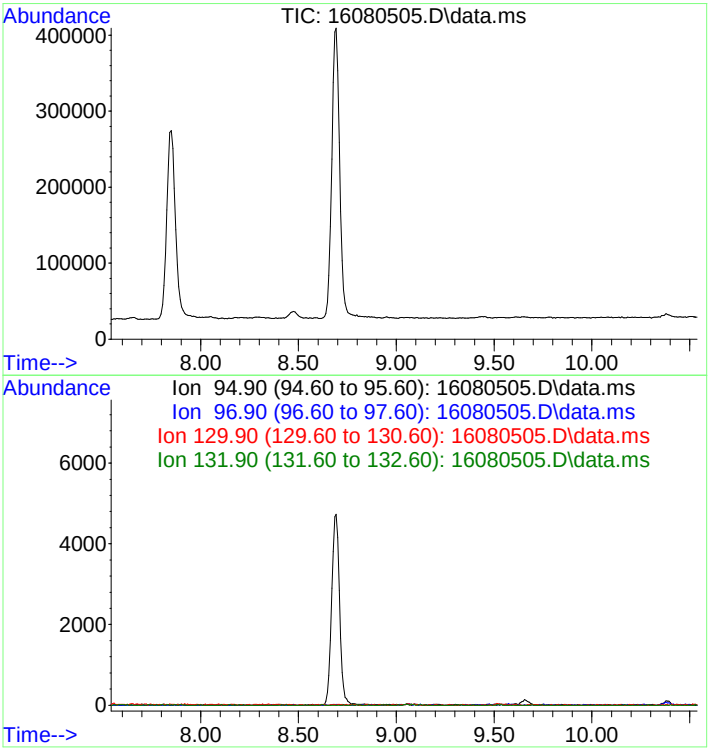
The chromatogram that follows includes peak integrations manually modified by the analyst

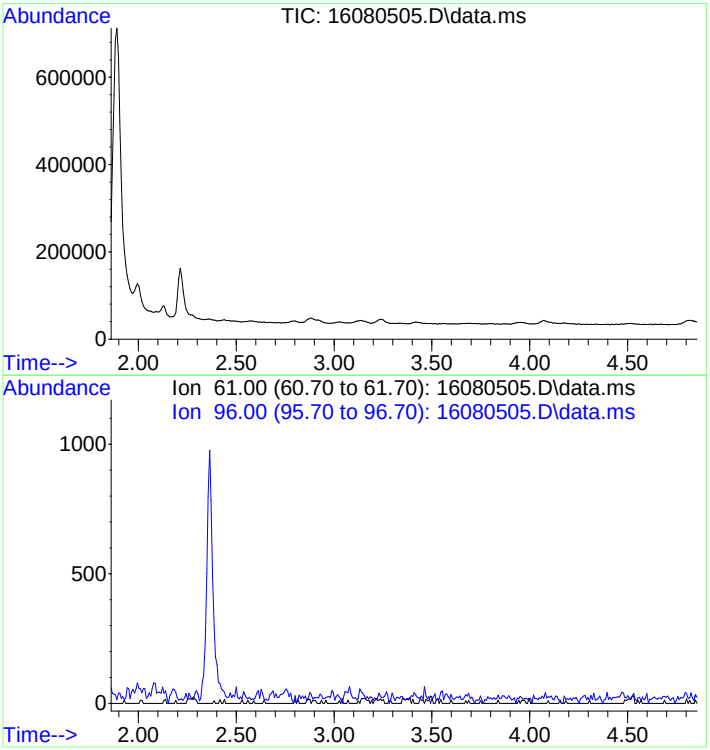


#25
Trichloroethene
Concen: N.D.
Expected RT: 9.04 min

Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

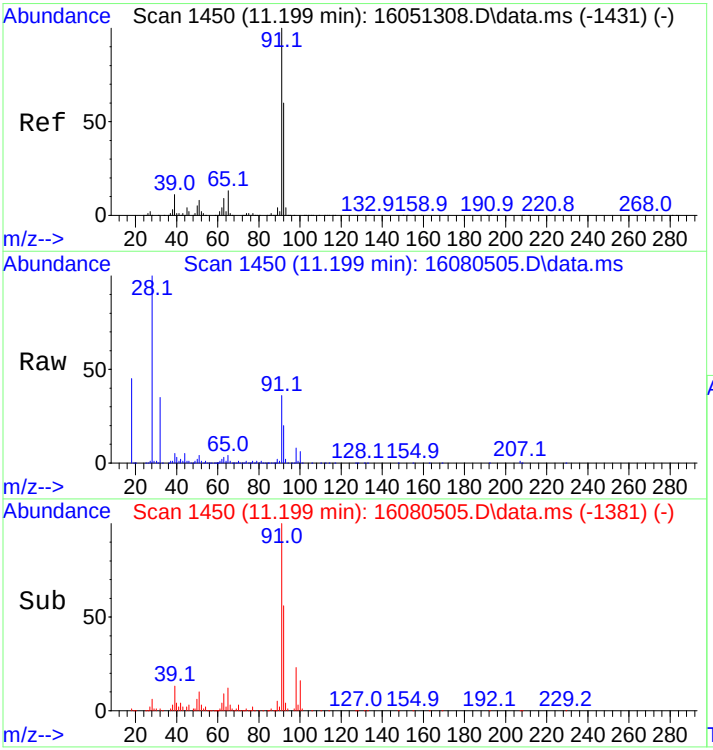


#8
1,1-Dichloroethene
Concen: N.D.
Expected RT: 3.36 min

Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 61

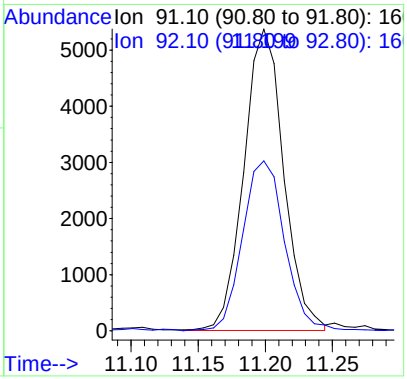
Sig	Exp Ratio
61	100
96	55.1

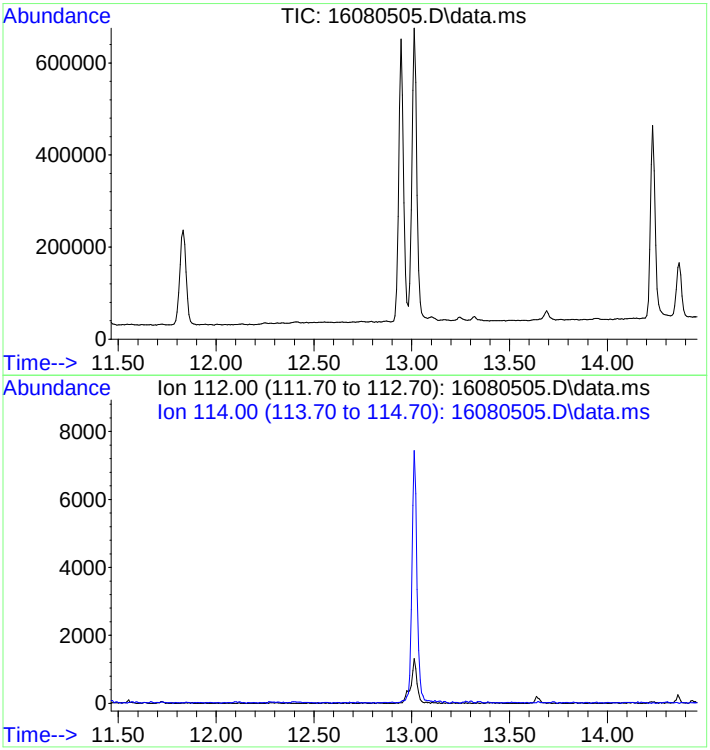


#33
Toluene
Concen: 3.49 ng m
RT: 11.199 min Scan# 1450
Delta R.T. 0.022 min
Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 91 Resp: 11047

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.6	73.0





#39
Chlorobenzene
Concen: N.D.
Expected RT: 12.96 min

Lab File: 16080505.D
Acq: 5 Aug 2016 2:14 pm

Tgt Ion: 112

Sig	Exp Ratio
112	100
114	34.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080507.D
Acq On : 5 Aug 2016 3:05 pm
Operator : SG Instrument MSD-3
Sample : L1806542-9
Misc : Coder SG
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 14:03:48 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.766	130	95774	250.00	ng	0.05
20) 1,4-Difluorobenzene	8.701	114	427314	250.00	ng	0.04
32) d5-Chlorobenzene	12.945	117	320088	250.00	ng	0.02
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.858	65	197144	340.60	ng	0.05
Spiked Amount 250.000			Recovery	=	136.24%	
48) d10-Ethylbenzene(SPK)	13.013	98	489317	222.40	ng	0.02
Spiked Amount 200.000			Recovery	=	111.20%	
49) d8-Toluene(SURR)	11.109	98	496280	261.72	ng	0.03
Spiked Amount 250.000			Recovery	=	104.69%	
50) 4-Bromofluorobenzene(S...	14.232	95	147586	234.09	ng	0.02
Spiked Amount 250.000			Recovery	=	93.64%	
Target Compounds						Qvalue
23) Benzene	7.865	78	21941	7.09	ng	98
25) Trichloroethene	0.000		0	N.D.	d	

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

VOST160513Q7PTrev(RT).M Wed Aug 17 14:43:14 2016

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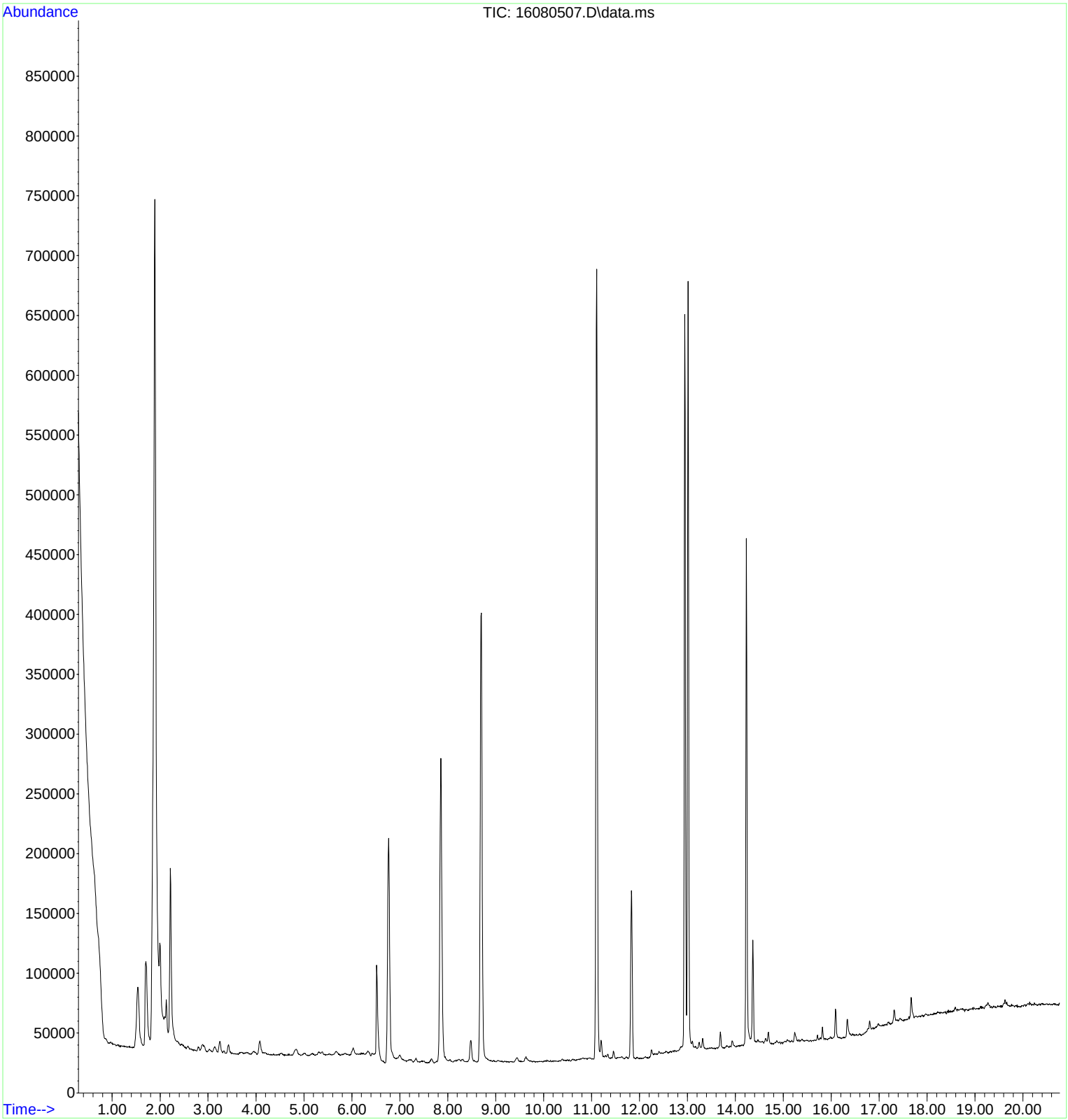
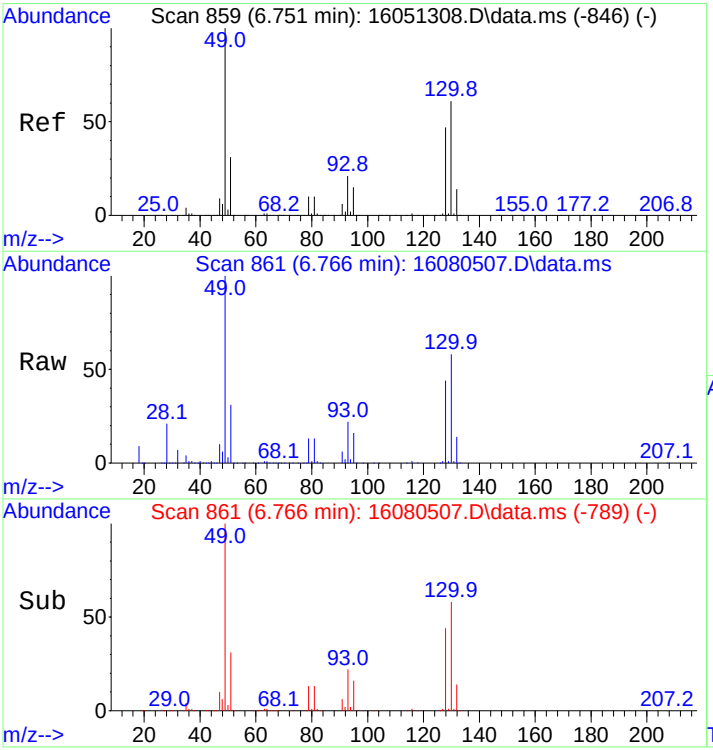
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160805\
Data File : 16080507.D
Acq On : 5 Aug 2016 3:05 pm
Operator : SG Instrument MSD-3
Sample : L1806542-9
Misc : Coder SG
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 14:03:48 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

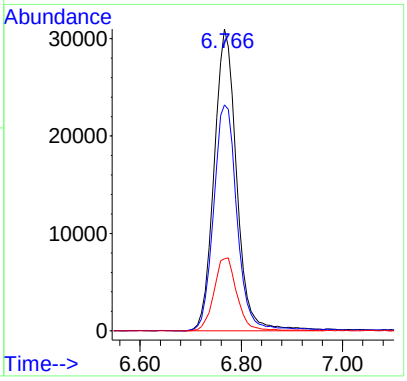


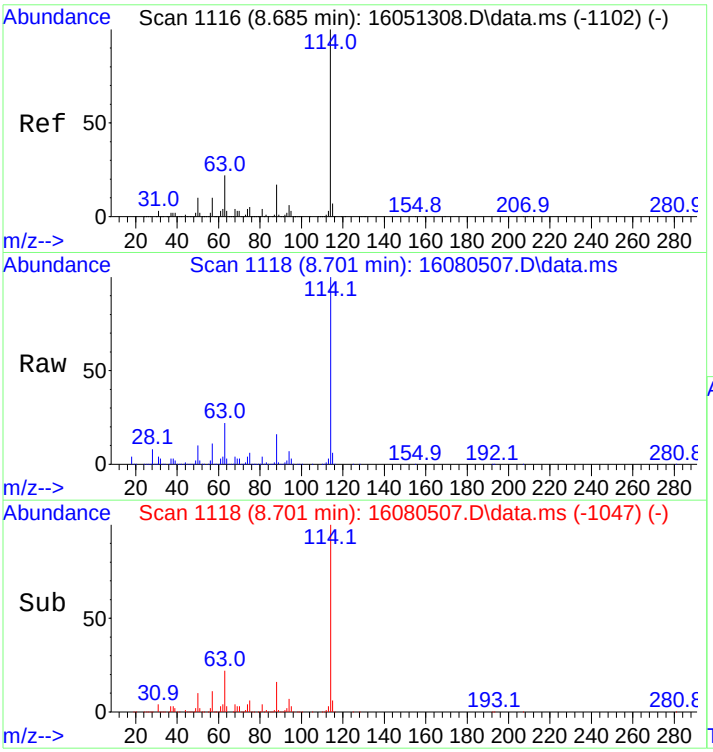


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.766 min Scan# 861
Delta R.T. 0.045 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion:130 Resp: 95774

Ion	Ratio	Lower	Upper
130	100		
128	78.6	63.0	94.4
132	24.7	19.9	29.9

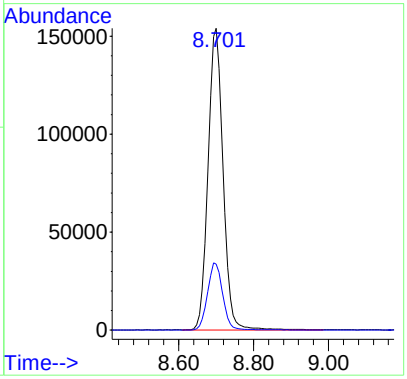


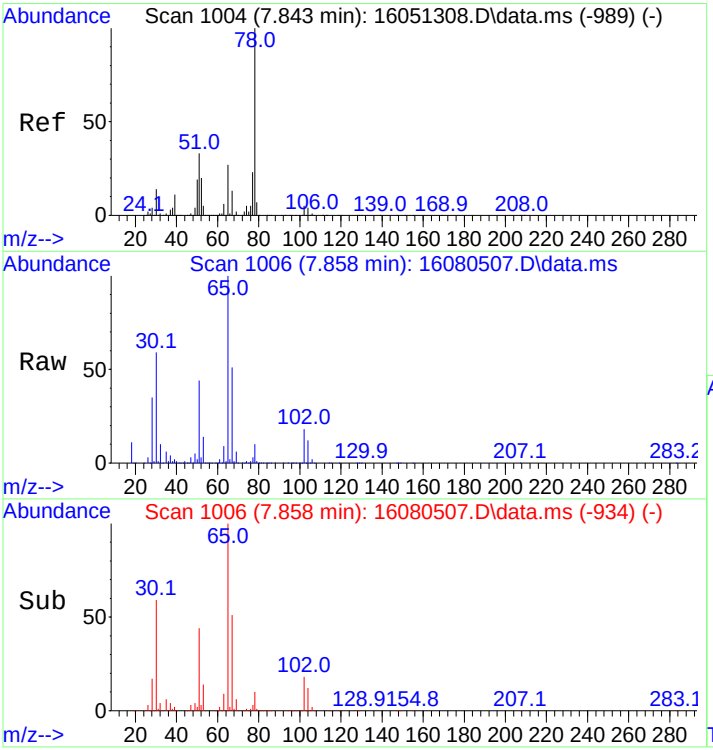


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.701 min Scan# 1118
Delta R.T. 0.038 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion:114 Resp: 427314

Ion	Ratio	Lower	Upper
114	100		
63	22.5	17.8	26.8

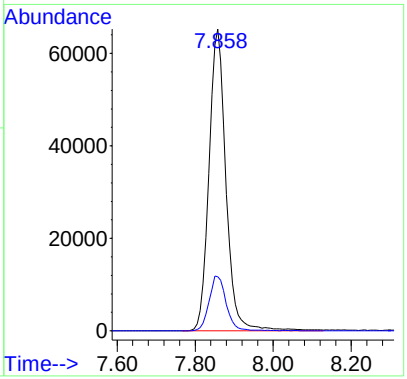


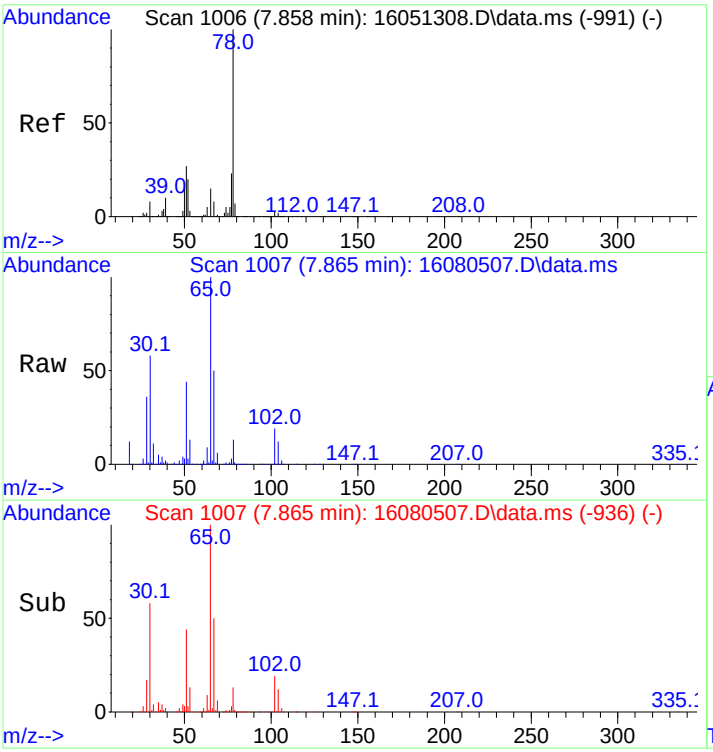


#21
d4-1,2-Dichloroethane(SURR)
Concen: 340.60 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.045 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion: 65 Resp: 197144

Ion	Ratio	Lower	Upper
65	100		
102	18.3	16.5	24.7

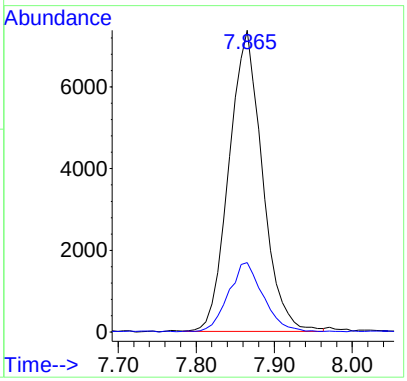


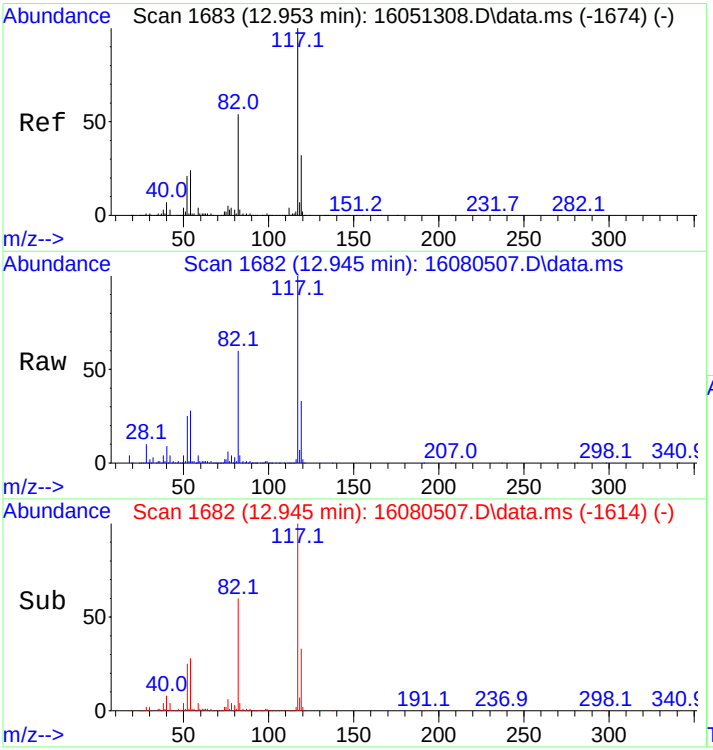


#23
Benzene
Concen: 7.09 ng
RT: 7.865 min Scan# 1007
Delta R.T. 0.038 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion: 78 Resp: 21941

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.3	27.5

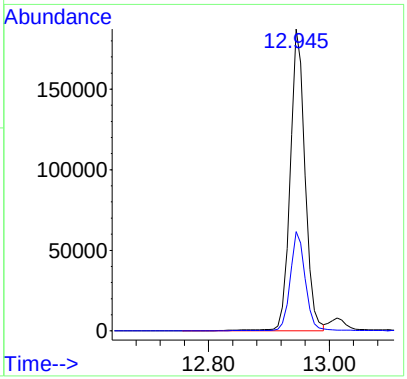


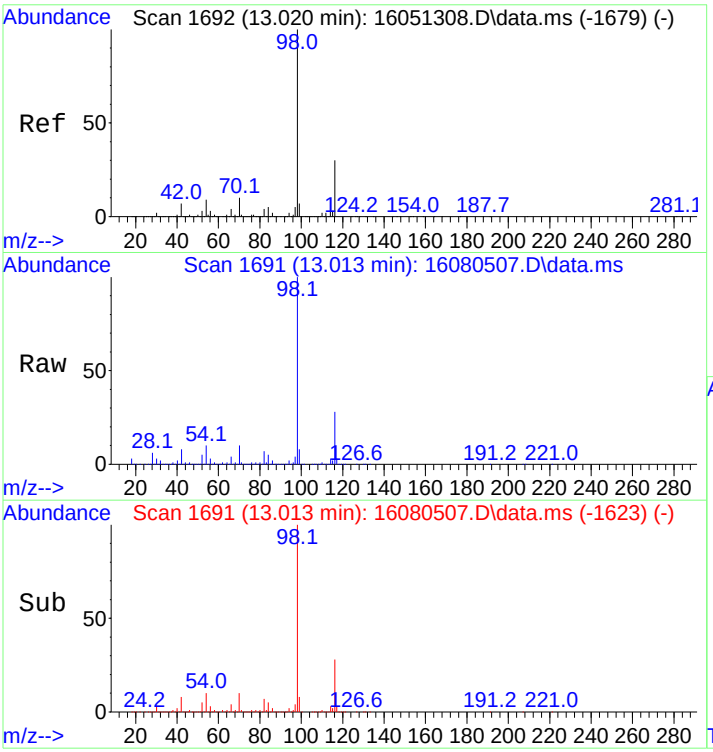


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.945 min Scan# 1682
Delta R.T. 0.015 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion:117 Resp: 320088

Ion	Ratio	Lower	Upper
117	100		
119	33.4	25.8	38.8

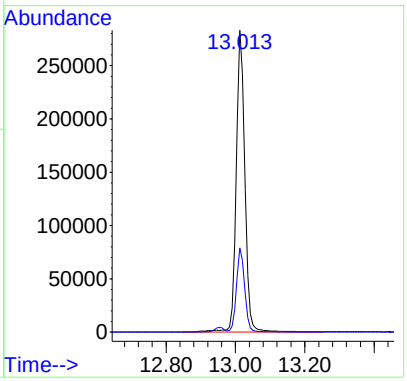


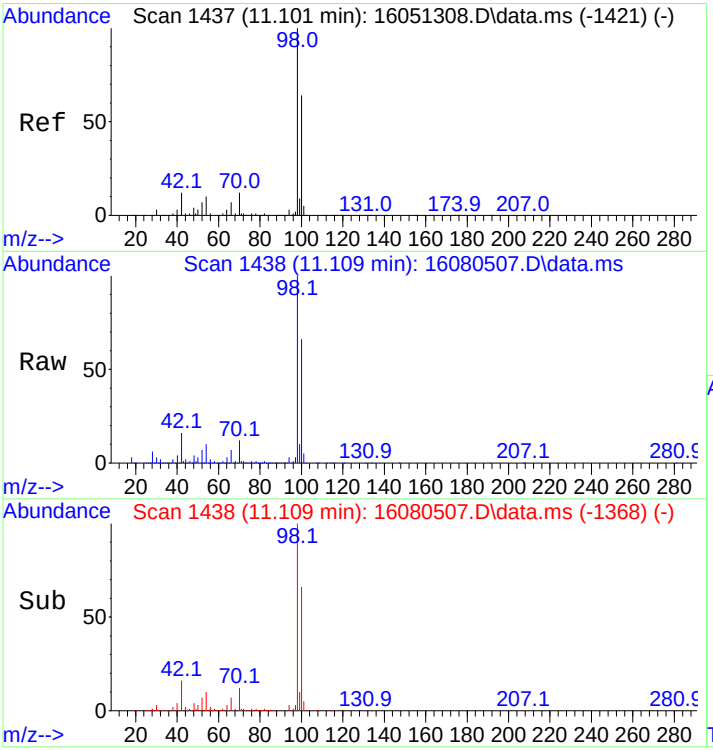


#48
d10-Ethylbenzene(SPK)
Concen: 222.40 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion: 98 Resp: 489317

Ion	Ratio	Lower	Upper
98	100		
116	26.5	23.4	35.0

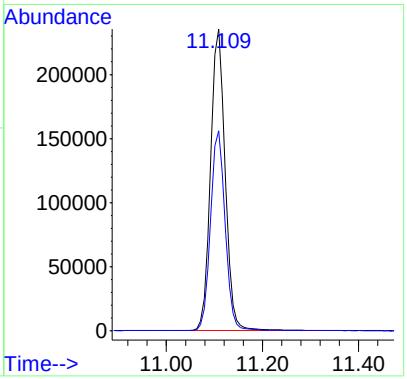


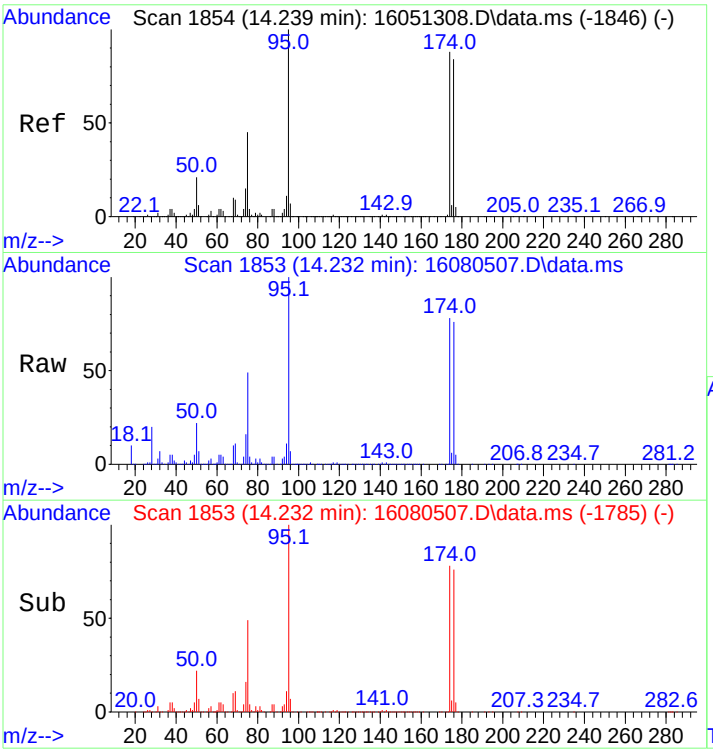


#49
d8-Toluene(SURR)
Concen: 261.72 ng
RT: 11.109 min Scan# 1438
Delta R.T. 0.030 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion: 98 Resp: 496280

Ion	Ratio	Lower	Upper
98	100		
100	66.5	56.0	84.0

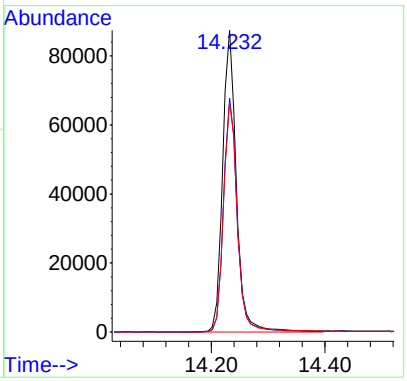


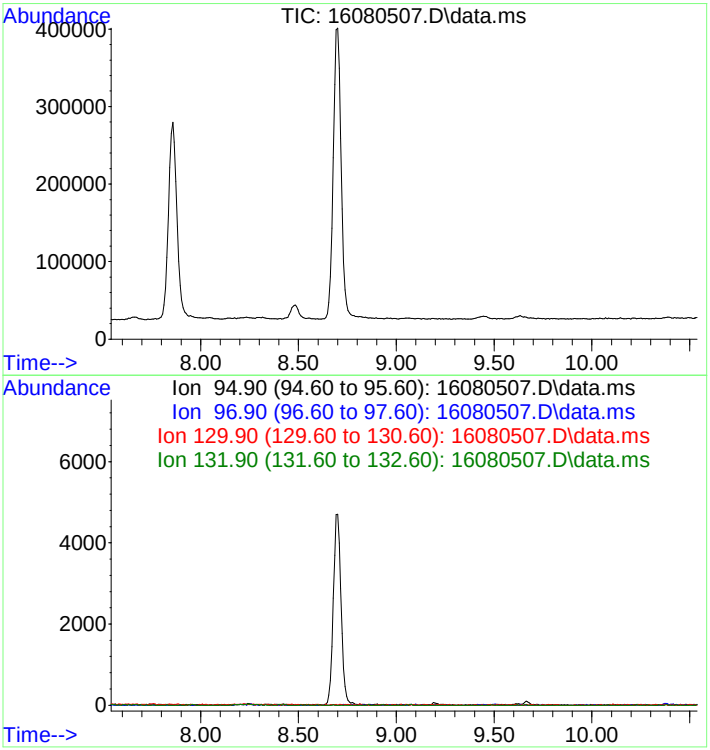


#50
4-Bromofluorobenzene(SURR)
Concen: 234.09 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion: 95 Resp: 147586

Ion	Ratio	Lower	Upper
95	100		
174	77.6	67.8	101.8
176	76.6	64.8	97.2





#25
Trichloroethene
Concen: Below Cal
Expected RT: 9.04 min

Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

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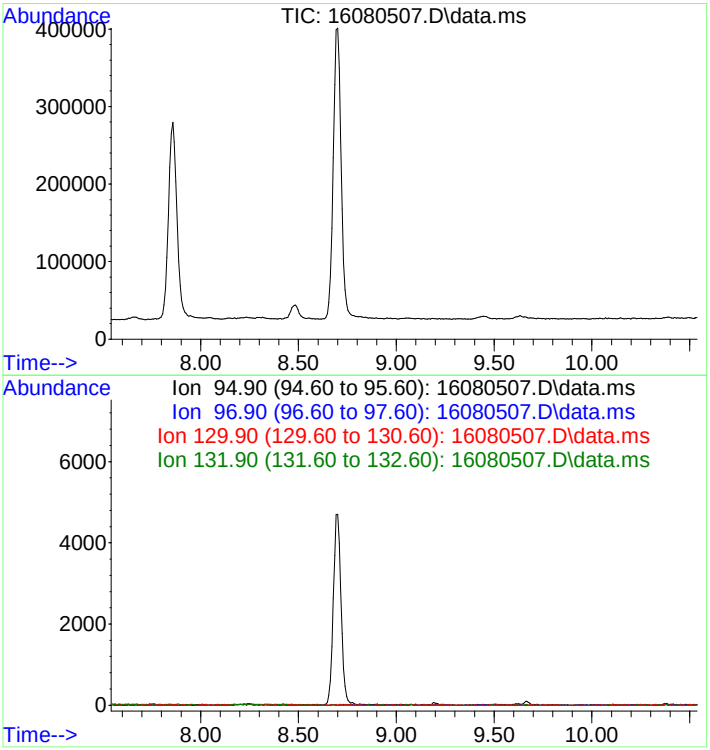
The chromatogram that follows includes peak integrations manually modified by the analyst



#25
Trichloroethene
Concen: N.D.
Expected RT: 9.04 min

Lab File: 16080507.D
Acq: 5 Aug 2016 3:05 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080509.D
Acq On : 5 Aug 2016 3:56 pm
Operator : SG Instrument MSD-3
Sample : L1806542-3
Misc : Coder SG
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 14:10:20 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.766	130	100193	250.00	ng	0.05
20) 1,4-Difluorobenzene	8.700	114	406127	250.00	ng	0.04
32) d5-Chlorobenzene	12.952	117	274819	250.00	ng	0.02
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.858	65	182277	331.35	ng	0.05
Spiked Amount 250.000			Recovery = 132.54%			
48) d10-Ethylbenzene(SPK)	13.013	98	382465	202.47	ng	0.01
Spiked Amount 200.000			Recovery = 101.24%			
49) d8-Toluene(SURR)	11.109	98	460002	282.54	ng	0.03
Spiked Amount 250.000			Recovery = 113.02%			
50) 4-Bromofluorobenzene(S...	14.232	95	122389	226.10	ng	0.01
Spiked Amount 250.000			Recovery = 90.44%			
23) Benzene	7.873	78	148421	50.48	ng	99
25) Trichloroethene	9.069	95	11835	17.95	ng	92

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

VOST160513Q7PTrev(RT).M Wed Aug 17 14:53:59 2016

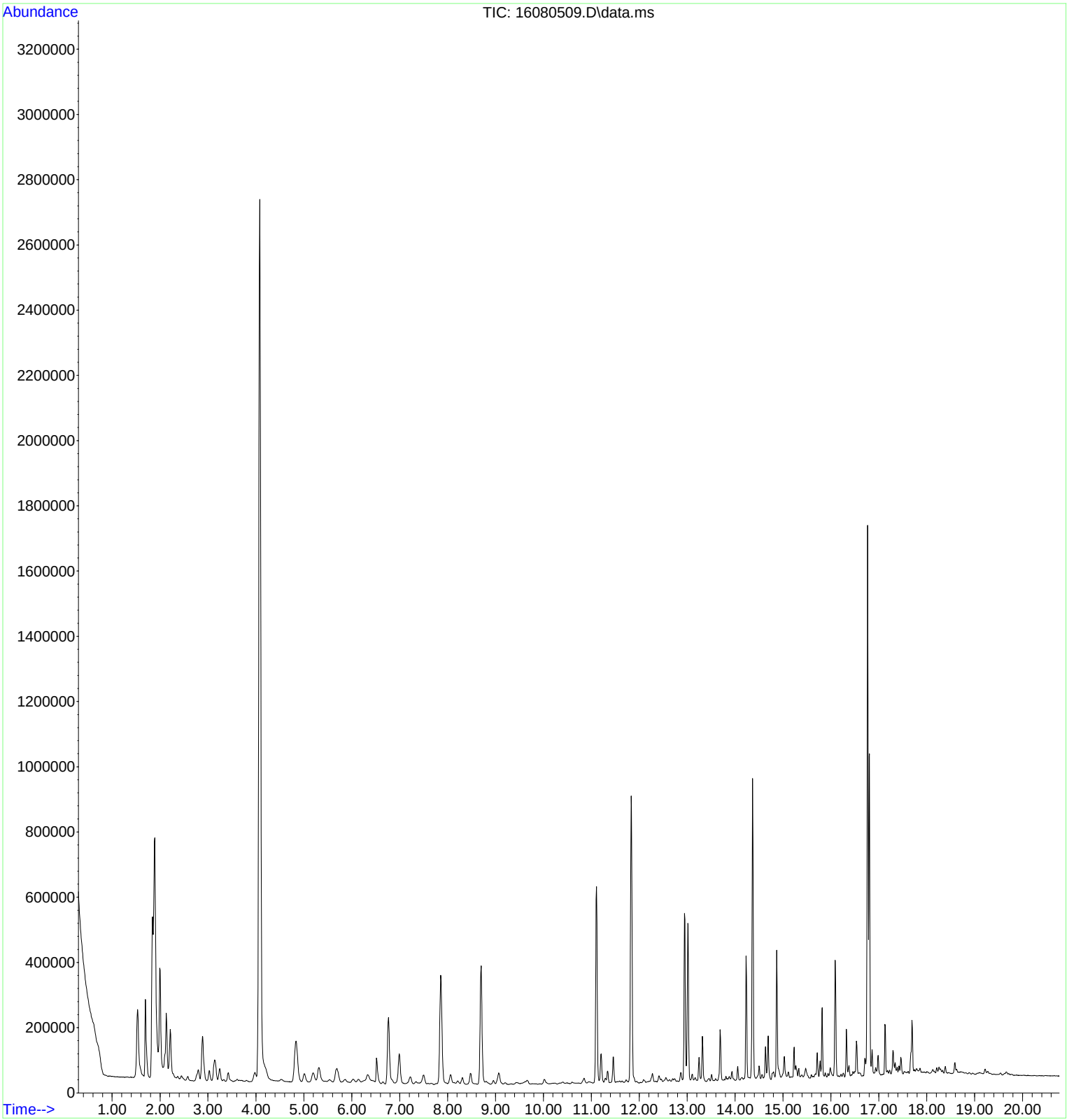
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

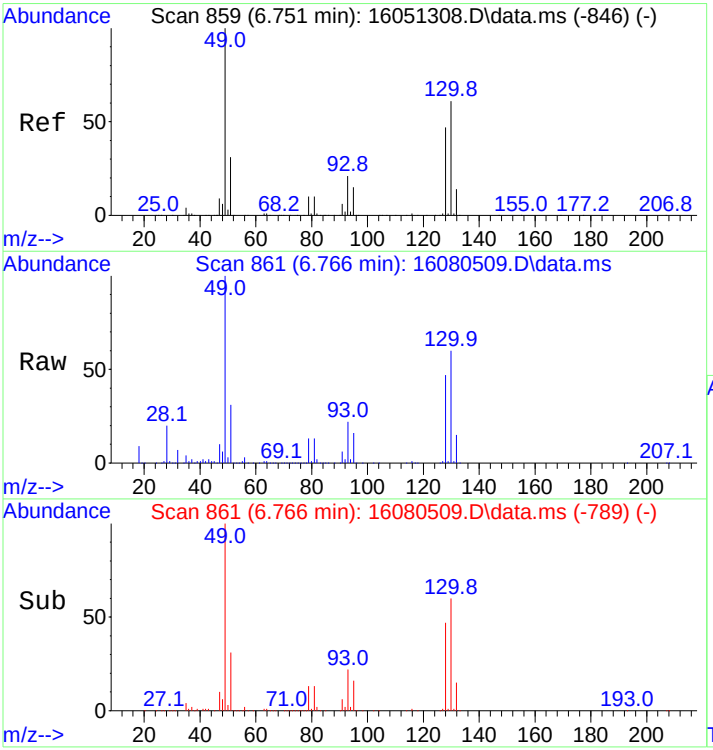
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080509.D
Acq On : 5 Aug 2016 3:56 pm
Operator : SG Instrument MSD-3
Sample : L1806542-3
Misc : Coder SG
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 14:10:20 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

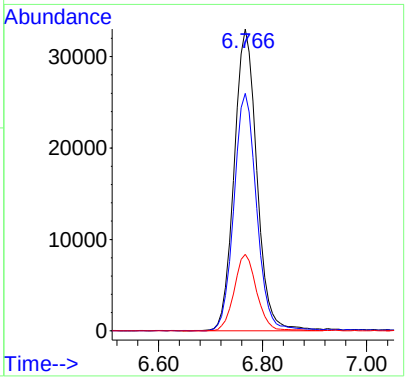


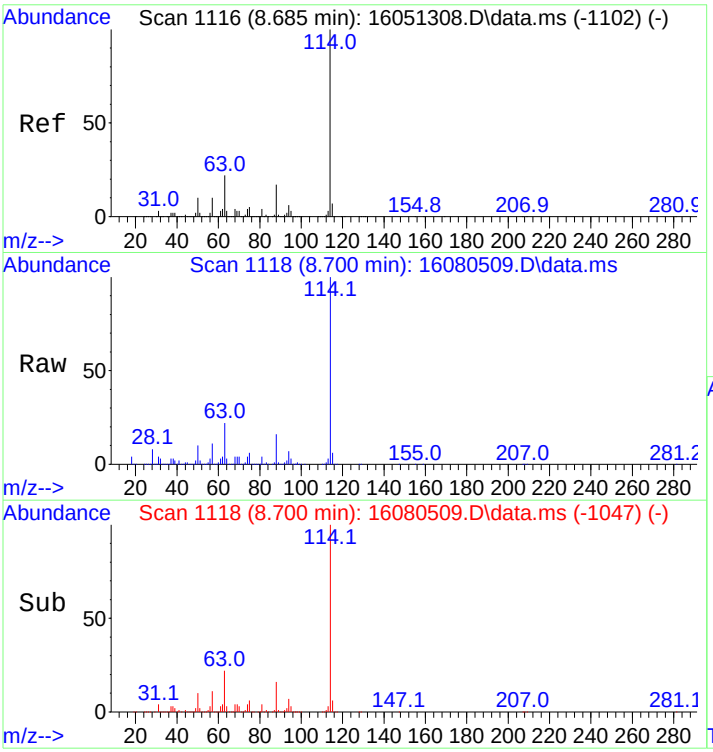


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.766 min Scan# 861
Delta R.T. 0.045 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion:130 Resp: 100193

Ion	Ratio	Lower	Upper
130	100		
128	78.7	63.0	94.4
132	25.2	19.9	29.9

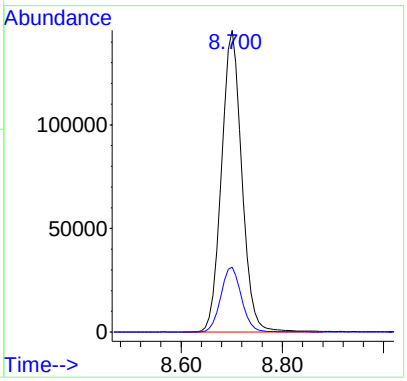


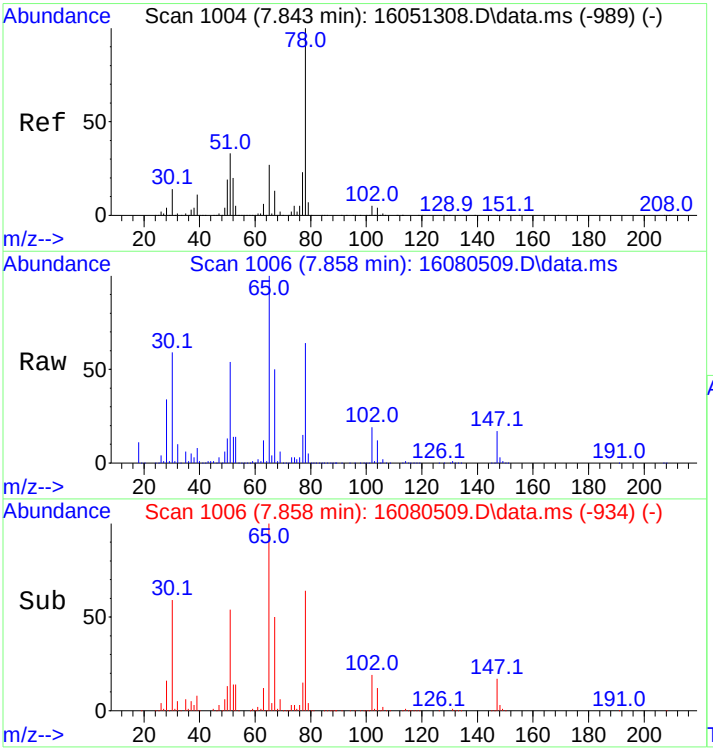


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.700 min Scan# 1118
Delta R.T. 0.037 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion:114 Resp: 406127

Ion	Ratio	Lower	Upper
114	100		
63	22.2	17.8	26.8

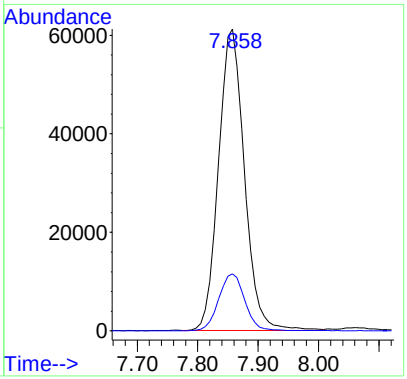


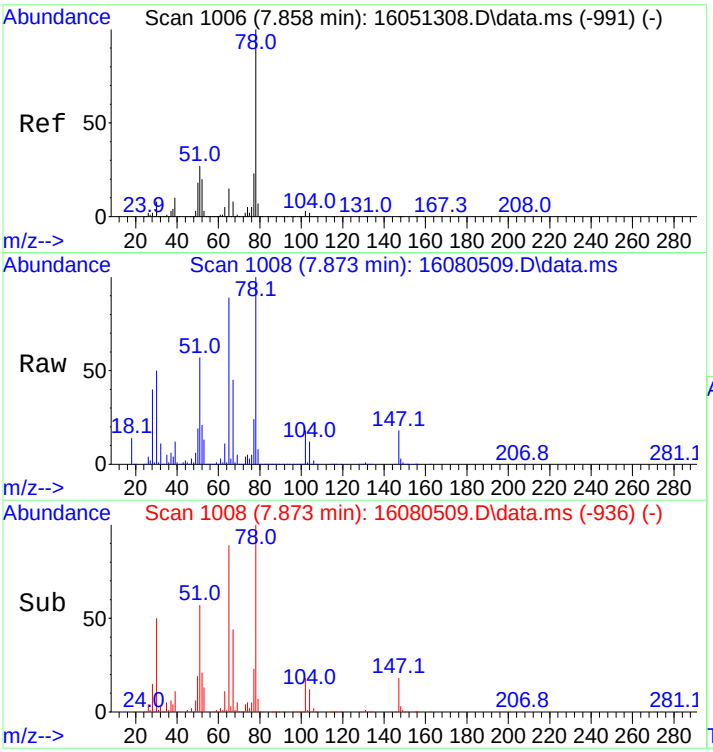


#21
d4-1,2-Dichloroethane(SURR)
Concen: 331.35 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.045 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion: 65 Resp: 182277

Ion	Ratio	Lower	Upper
65	100		
102	19.0	16.5	24.7

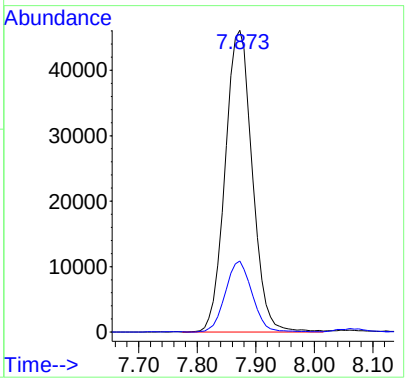


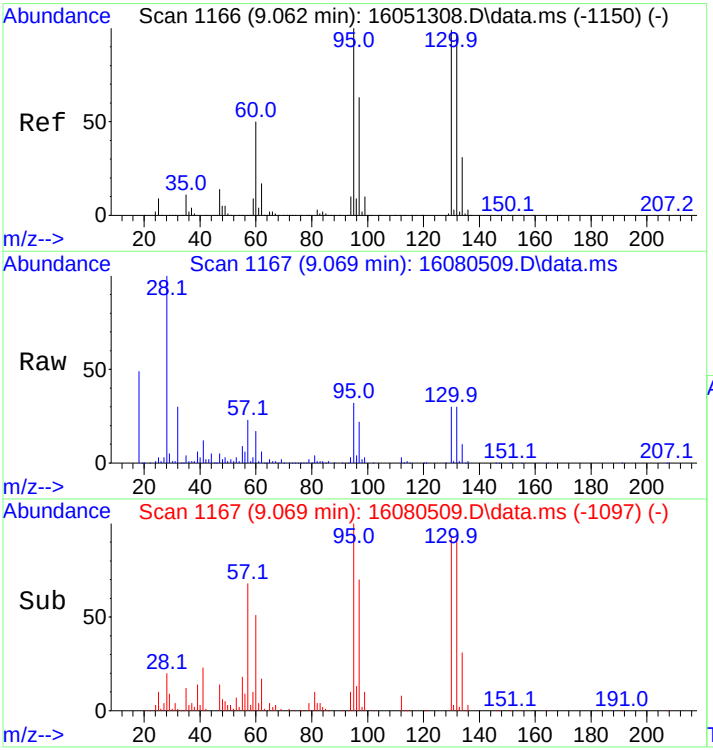


#23
Benzene
Concen: 50.48 ng
RT: 7.873 min Scan# 1008
Delta R.T. 0.045 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion: 78 Resp: 148421

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

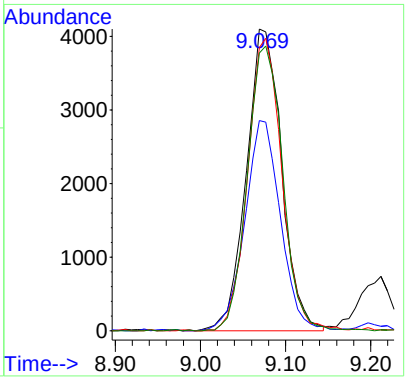


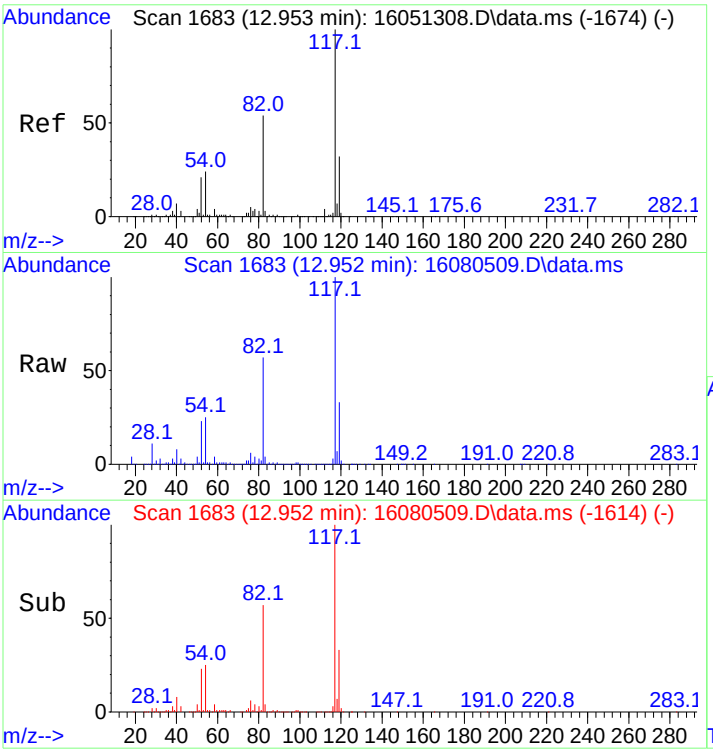


#25
Trichloroethene
Concen: 17.95 ng
RT: 9.069 min Scan# 1167
Delta R.T. 0.030 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion: 95 Resp: 11835

Ion	Ratio	Lower	Upper
95	100		
97	70.4	51.8	77.8
130	93.9	81.9	122.9
132	94.4	81.2	121.8

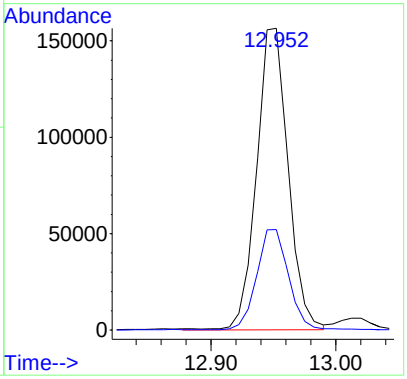


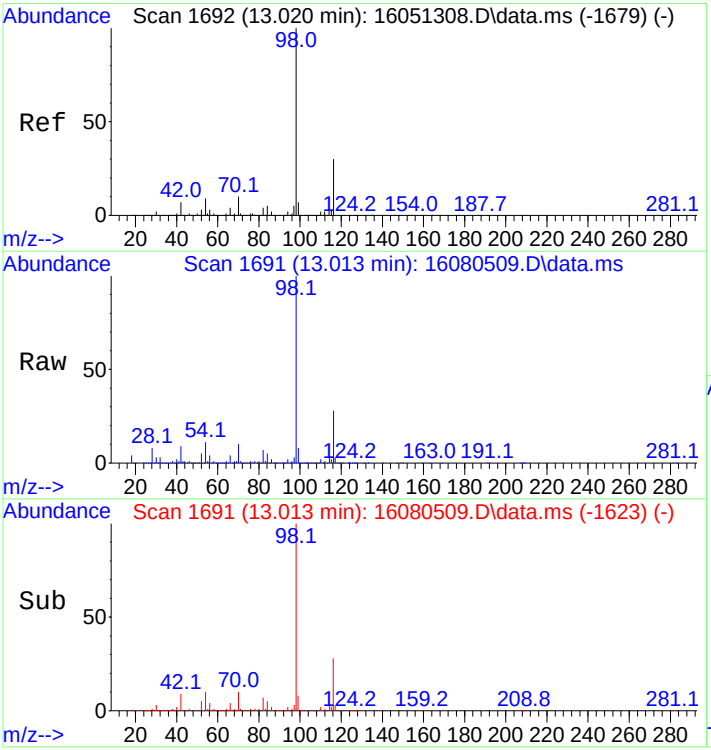


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.952 min Scan# 1683
Delta R.T. 0.022 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion:117 Resp: 274819

Ion	Ratio	Lower	Upper
117	100		
119	33.9	25.8	38.8

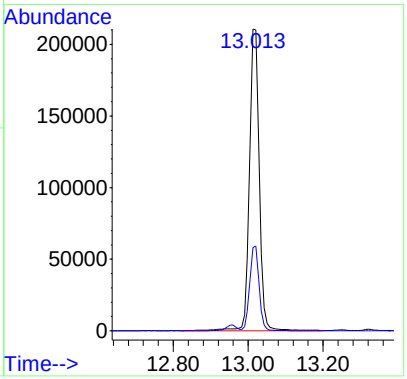


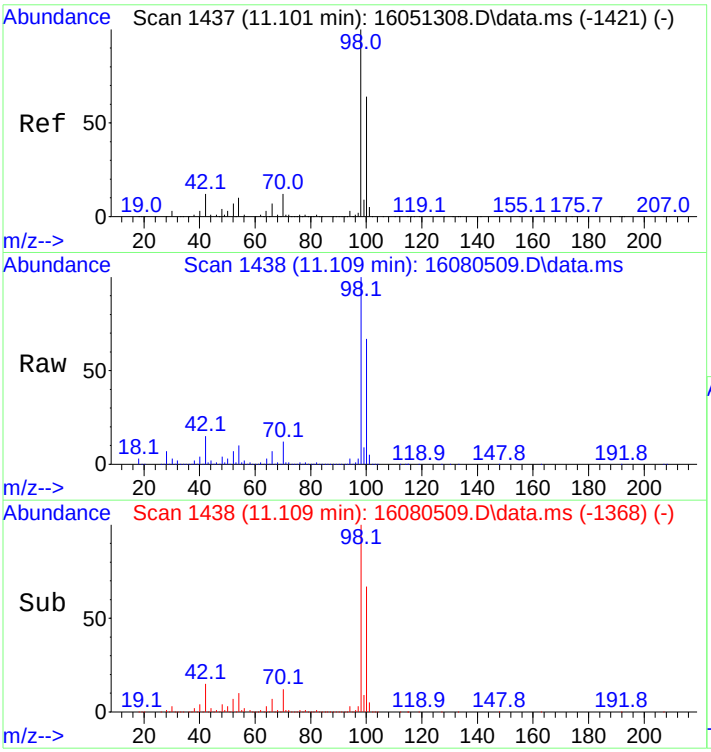


#48
d10-Ethylbenzene(SPK)
Concen: 202.47 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion: 98 Resp: 382465

Ion	Ratio	Lower	Upper
98	100		
116	26.7	23.4	35.0

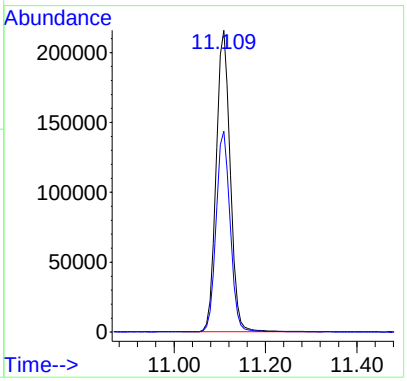


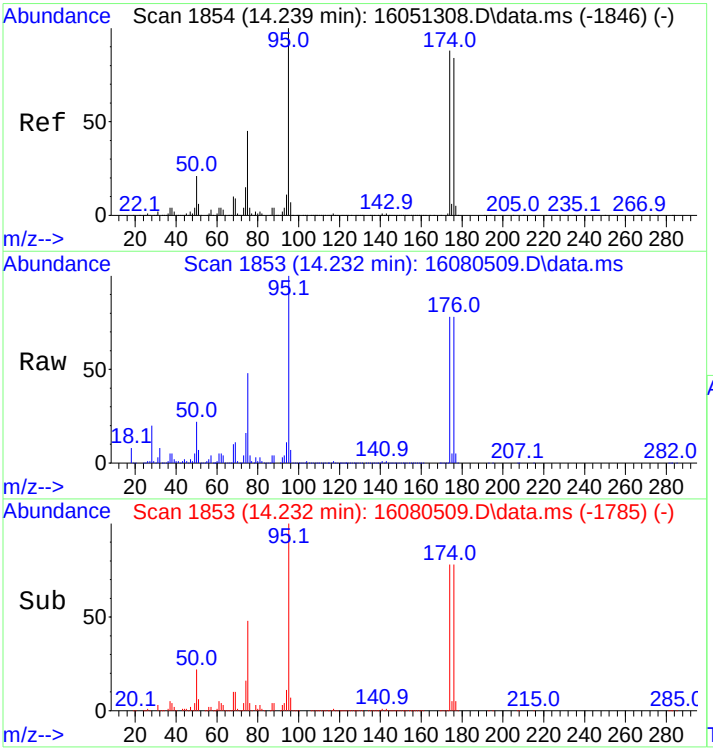


#49
d8-Toluene(SURR)
Concen: 282.54 ng
RT: 11.109 min Scan# 1438
Delta R.T. 0.030 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion: 98 Resp: 460002

Ion	Ratio	Lower	Upper
98	100		
100	66.7	56.0	84.0

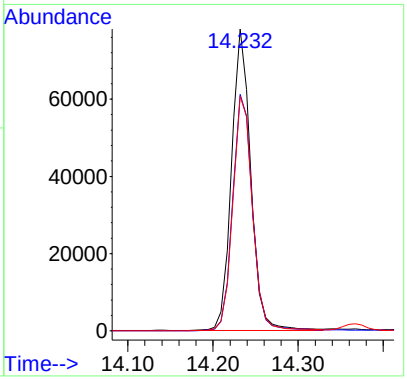




#50
4-Bromofluorobenzene(SURR)
Concen: 226.10 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080509.D
Acq: 5 Aug 2016 3:56 pm

Tgt Ion: 95 Resp: 122389

Ion	Ratio	Lower	Upper
95	100		
174	81.7	67.8	101.8
176	79.9	64.8	97.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080512.D
Acq On : 5 Aug 2016 5:31 pm
Operator : SG Instrument MSD-3
Sample : L1806542-5
Misc : Coder SG
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 14:26:38 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.766	130	111389	250.00 ng	0.05
20) 1,4-Difluorobenzene	8.700	114	474313	250.00 ng	0.04
32) d5-Chlorobenzene	12.953	117	315296	250.00 ng	0.02
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.858	65	195146	303.74 ng	0.05
Spiked Amount 250.000			Recovery	= 121.50%	
48) d10-Ethylbenzene(SPK)	13.020	98	444289	205.00 ng	0.02
Spiked Amount 200.000			Recovery	= 102.50%	
49) d8-Toluene(SURR)	11.109	98	513762	275.05 ng	0.03
Spiked Amount 250.000			Recovery	= 110.02%	
50) 4-Bromofluorobenzene(S...	14.232	95	129257	208.13 ng	0.01
Spiked Amount 250.000			Recovery	= 83.25%	
Target Compounds					Qvalue
23) Benzene	7.873	78	102550	29.87 ng	100
25) Trichloroethene	9.077	95	8598	11.17 ng	98

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

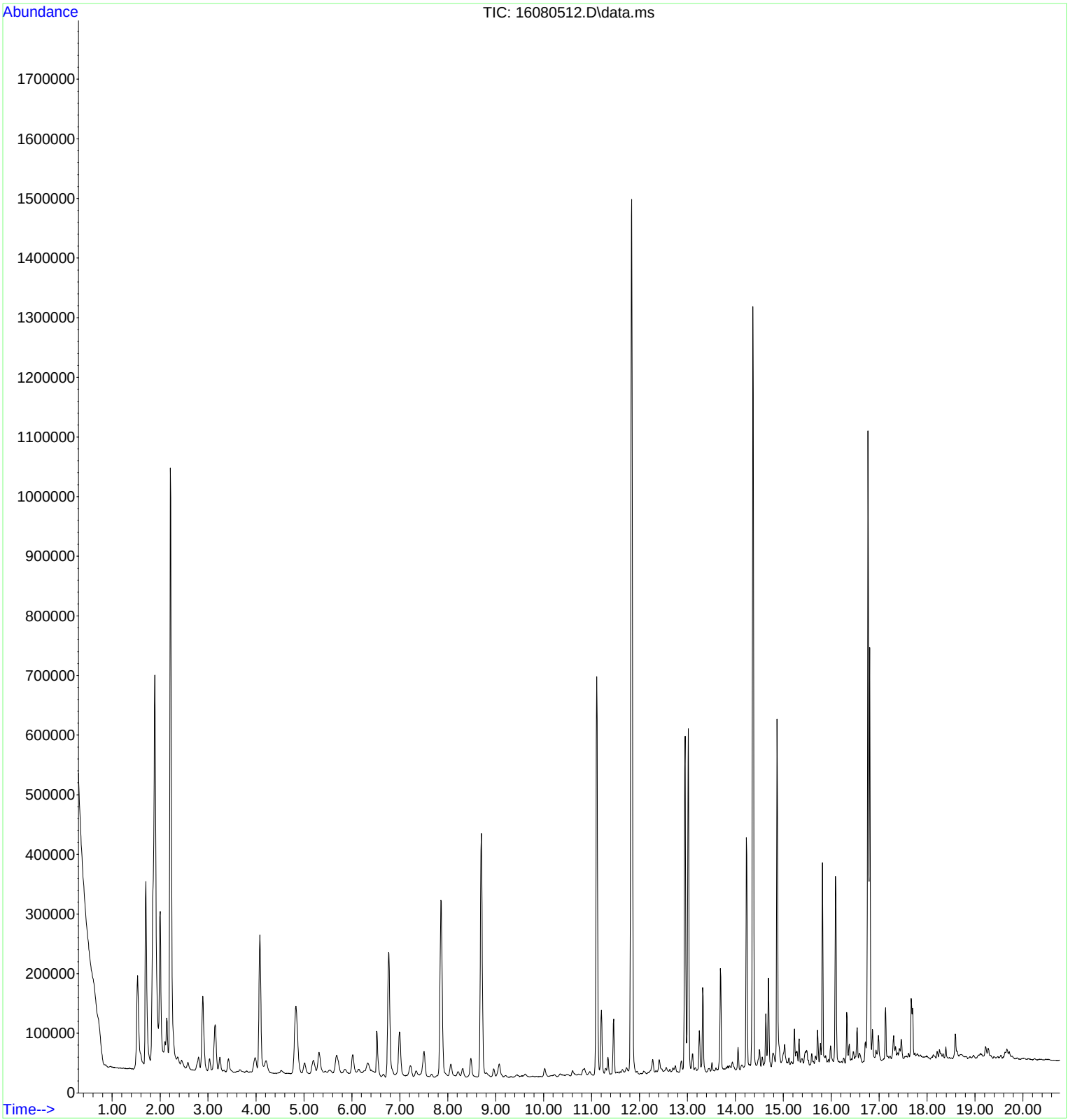
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

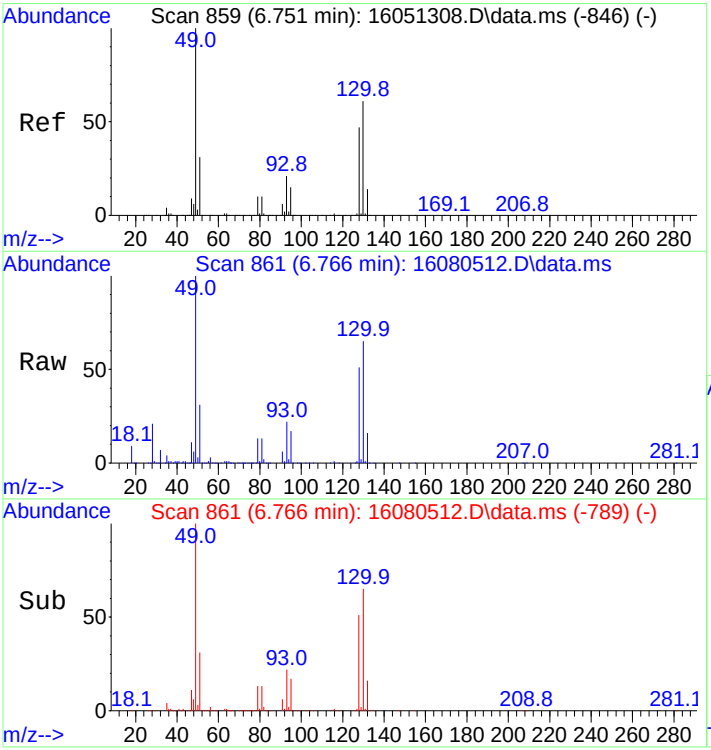
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080512.D
Acq On : 5 Aug 2016 5:31 pm
Operator : SG Instrument MSD-3
Sample : L1806542-5
Misc : Coder SG
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 14:26:38 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

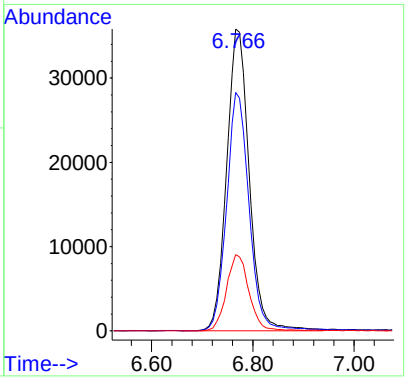


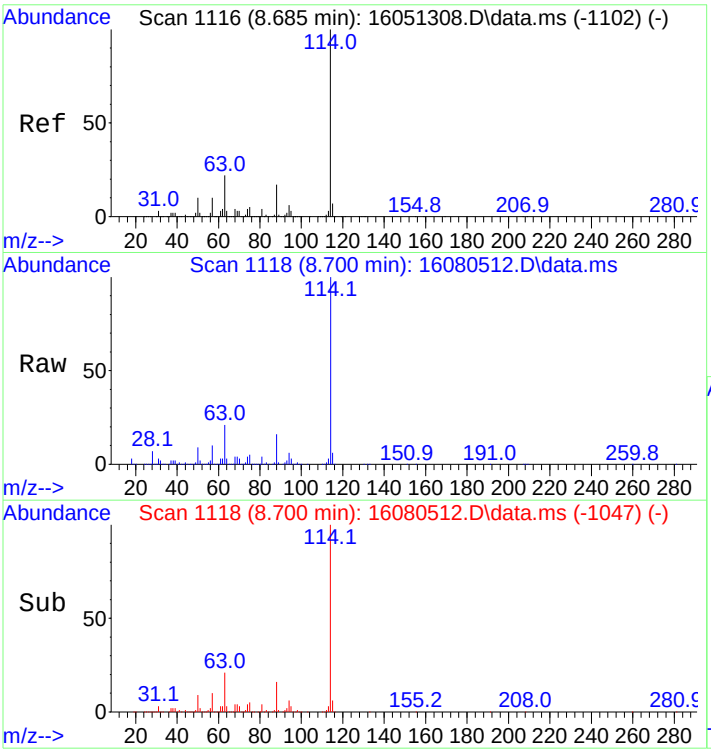


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.766 min Scan# 861
Delta R.T. 0.045 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion:130 Resp: 111389

Ion	Ratio	Lower	Upper
130	100		
128	78.4	63.0	94.4
132	25.2	19.9	29.9

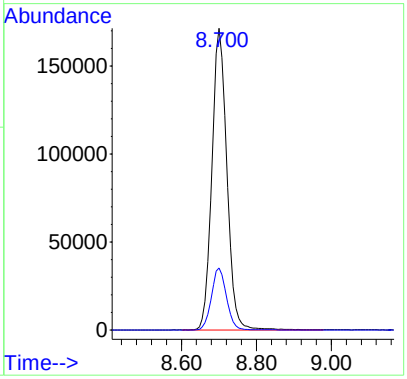


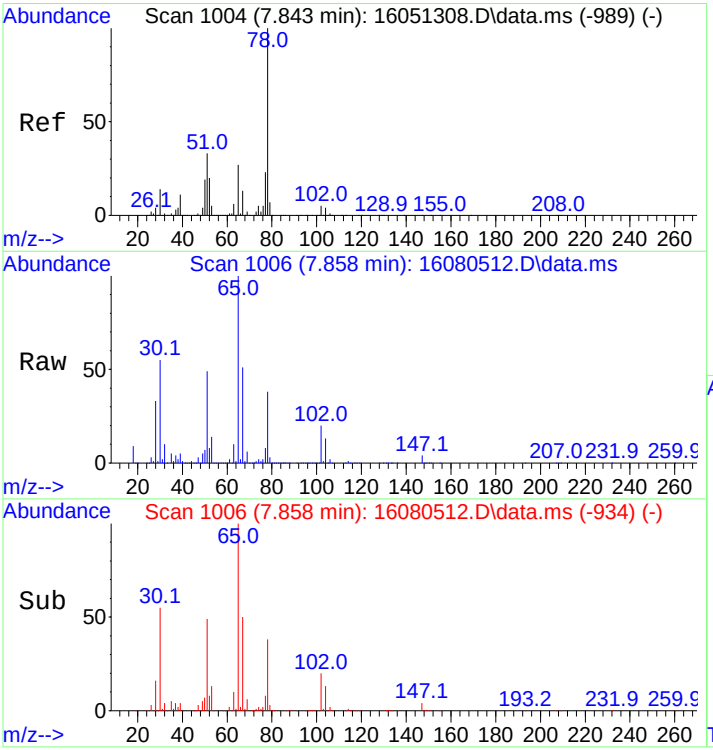


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.700 min Scan# 1118
Delta R.T. 0.038 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion:114 Resp: 474313

Ion	Ratio	Lower	Upper
114	100		
63	20.9	17.8	26.8

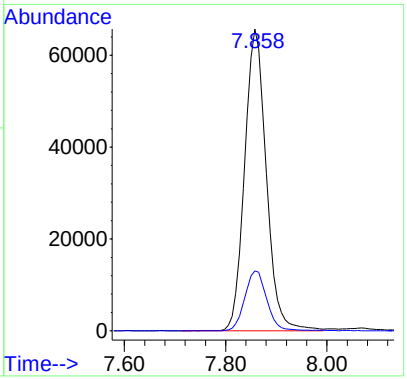


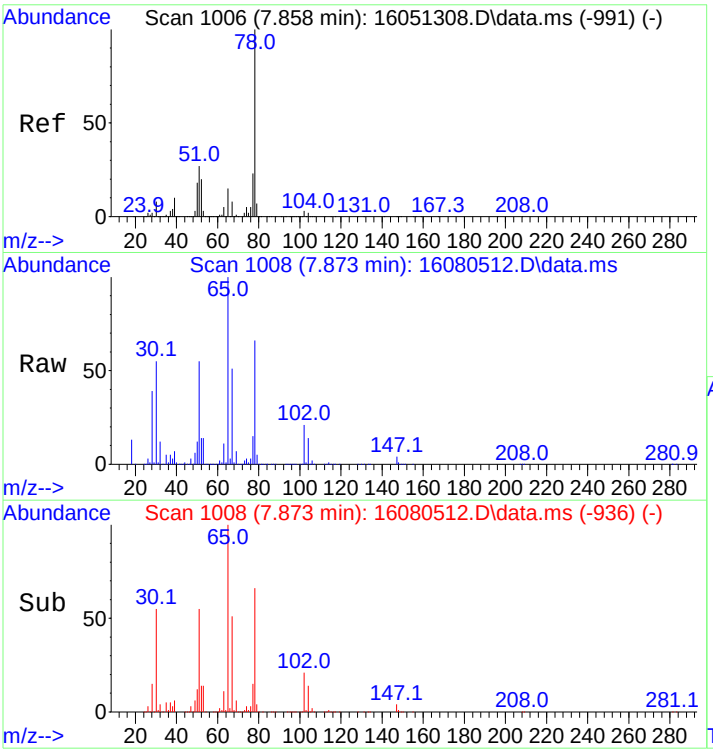


#21
d4-1,2-Dichloroethane(SURR)
Concen: 303.74 ng
RT: 7.858 min Scan# 1006
Delta R.T. 0.045 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion: 65 Resp: 195146

Ion	Ratio	Lower	Upper
65	100		
102	20.1	16.5	24.7

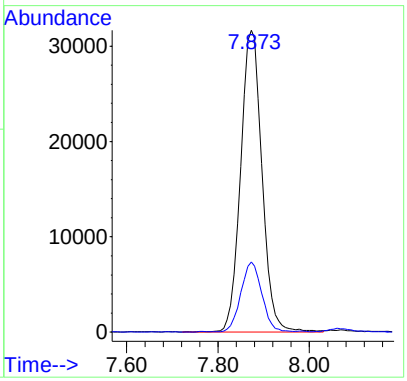


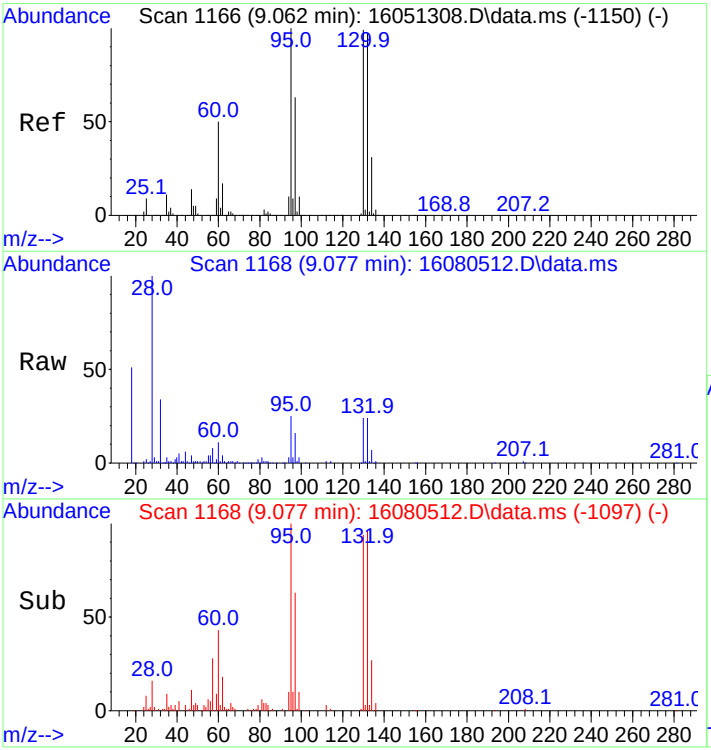


#23
Benzene
Concen: 29.87 ng
RT: 7.873 min Scan# 1008
Delta R.T. 0.045 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion: 78 Resp: 102550

Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.3	27.5

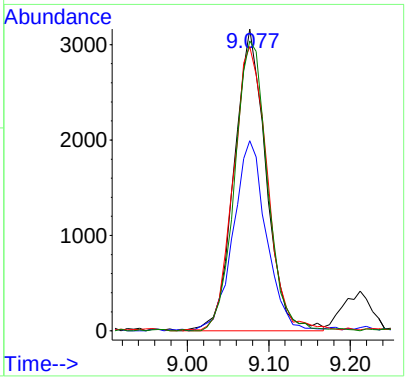


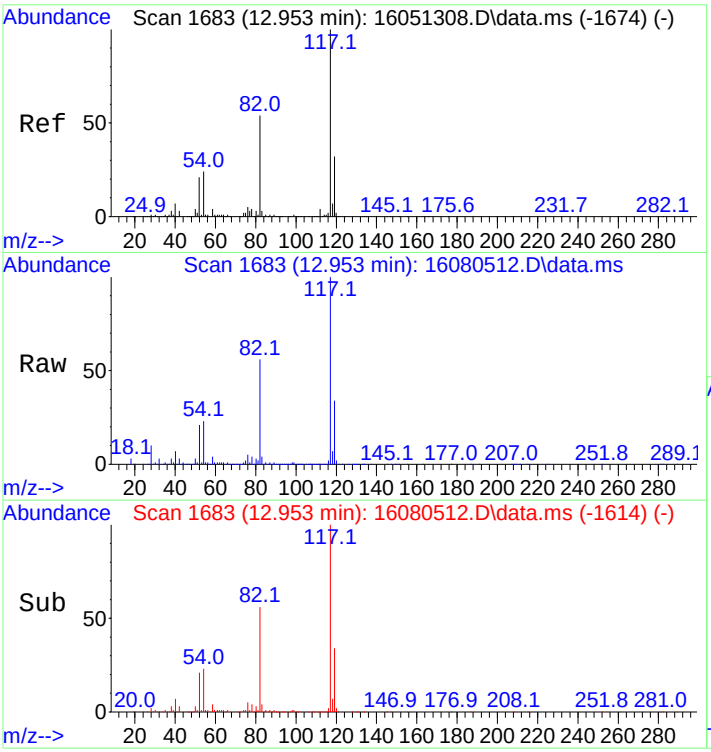


#25
Trichloroethene
Concen: 11.17 ng
RT: 9.077 min Scan# 1168
Delta R.T. 0.038 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion: 95 Resp: 8598

Ion	Ratio	Lower	Upper
95	100		
97	65.1	51.8	77.8
130	100.4	81.9	122.9
132	97.8	81.2	121.8

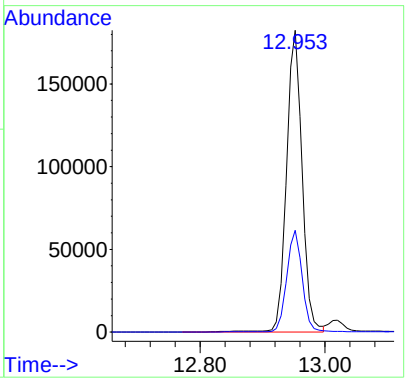


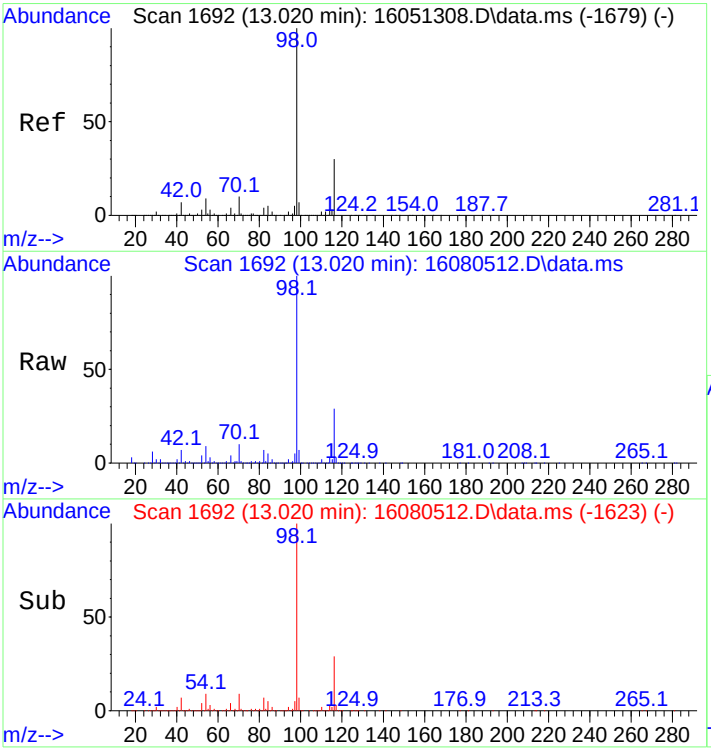


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.953 min Scan# 1683
Delta R.T. 0.022 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion:117 Resp: 315296

Ion	Ratio	Lower	Upper
117	100		
119	33.5	25.8	38.8

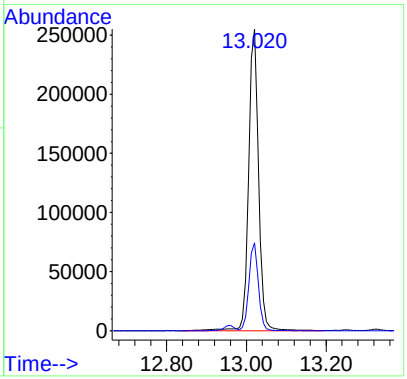


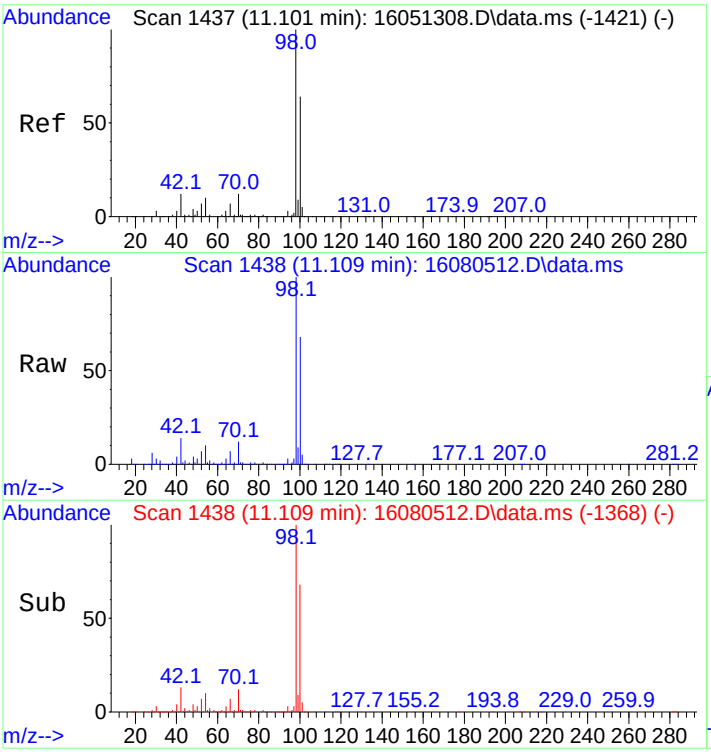


#48
d10-Ethylbenzene(SPK)
Concen: 205.00 ng
RT: 13.020 min Scan# 1692
Delta R.T. 0.022 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion: 98 Resp: 444289

Ion	Ratio	Lower	Upper
98	100		
116	27.7	23.4	35.0

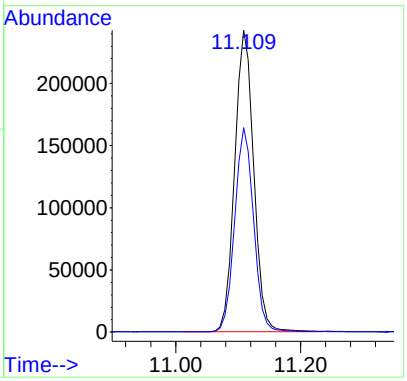


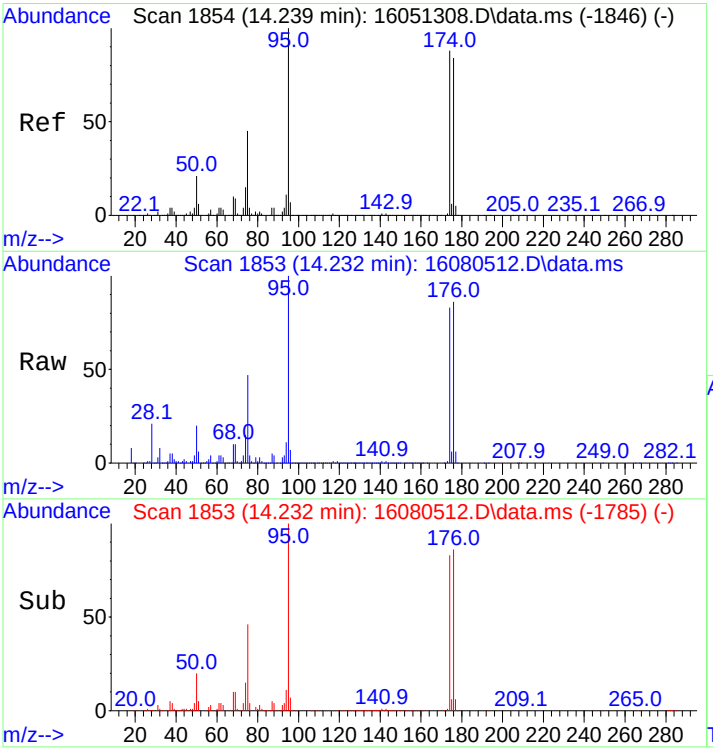


#49
d8-Toluene(SURR)
Concen: 275.05 ng
RT: 11.109 min Scan# 1438
Delta R.T. 0.030 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion: 98 Resp: 513762

Ion	Ratio	Lower	Upper
98	100		
100	67.2	56.0	84.0

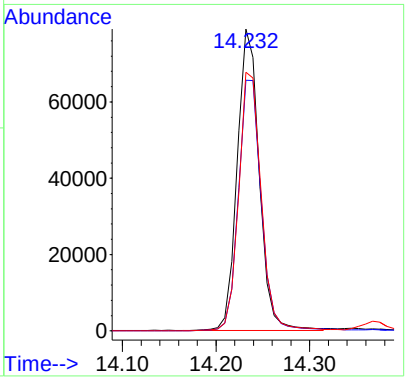




#50
4-Bromofluorobenzene(SURR)
Concen: 208.13 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080512.D
Acq: 5 Aug 2016 5:31 pm

Tgt Ion: 95 Resp: 129257

Ion	Ratio	Lower	Upper
95	100		
174	87.0	67.8	101.8
176	87.9	64.8	97.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080513.D
Acq On : 5 Aug 2016 6:10 pm
Operator : SG Instrument MSD-3
Sample : L1806542-7
Misc : Coder SG
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 15 14:28:30 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.759	130	113041	250.00 ng	0.04
20) 1,4-Difluorobenzene	8.693	114	461336	250.00 ng	0.03
32) d5-Chlorobenzene	12.945	117	295212	250.00 ng	0.02
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.850	65	187215	299.59 ng	0.04
Spiked Amount 250.000			Recovery	= 119.84%	
48) d10-Ethylbenzene(SPK)	13.013	98	298055	146.88 ng	0.02
Spiked Amount 200.000			Recovery	= 73.44%	
49) d8-Toluene(SURR)	11.109	98	502739	287.46 ng	0.03
Spiked Amount 250.000			Recovery	= 114.98%	
50) 4-Bromofluorobenzene(S...	14.232	95	120501	207.23 ng	0.02
Spiked Amount 250.000			Recovery	= 82.89%	
Target Compounds					Qvalue
23) Benzene	7.865	78	66779	19.99 ng	100
25) Trichloroethene	9.069	95	4681	6.25 ng	96

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

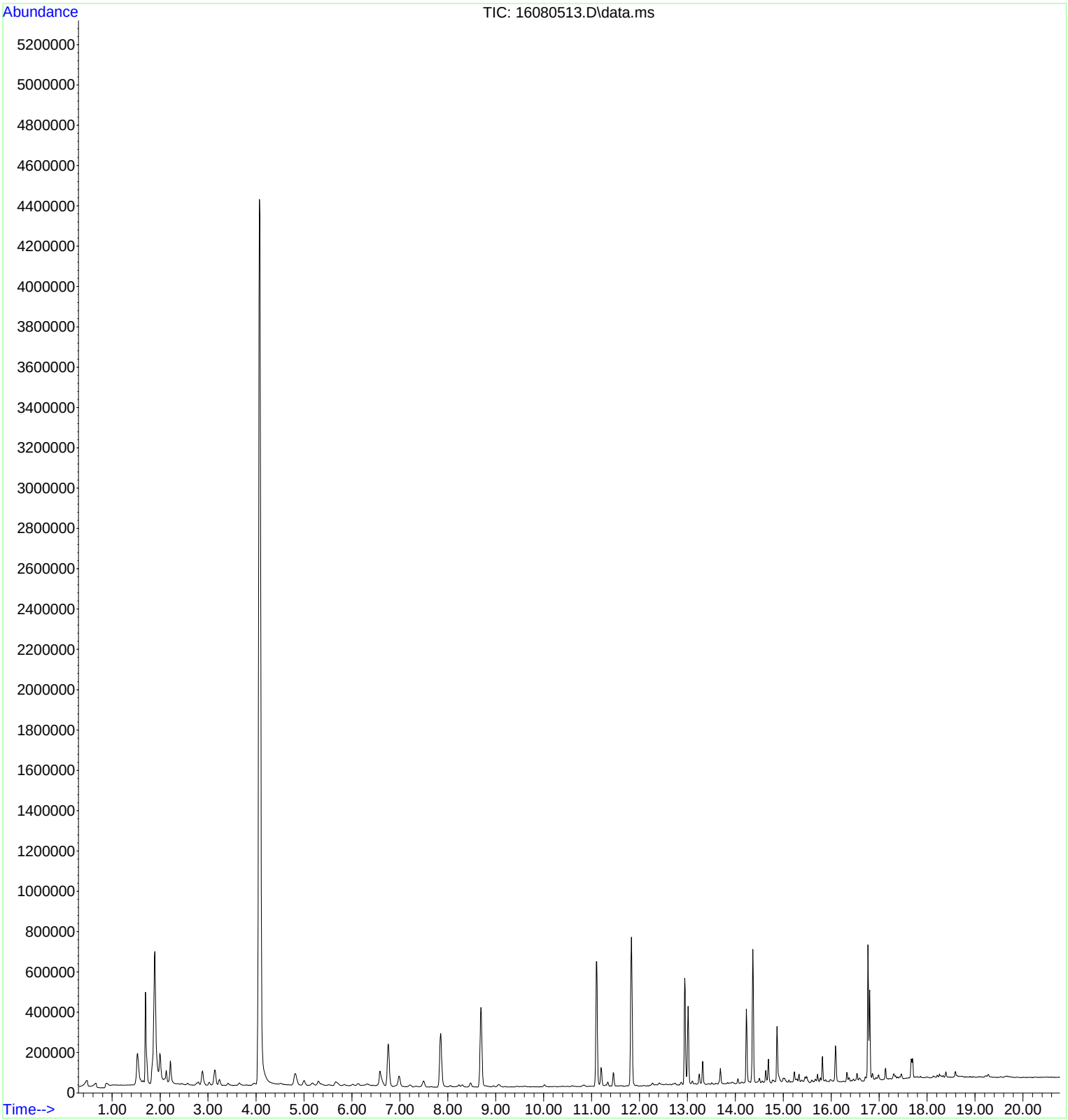
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

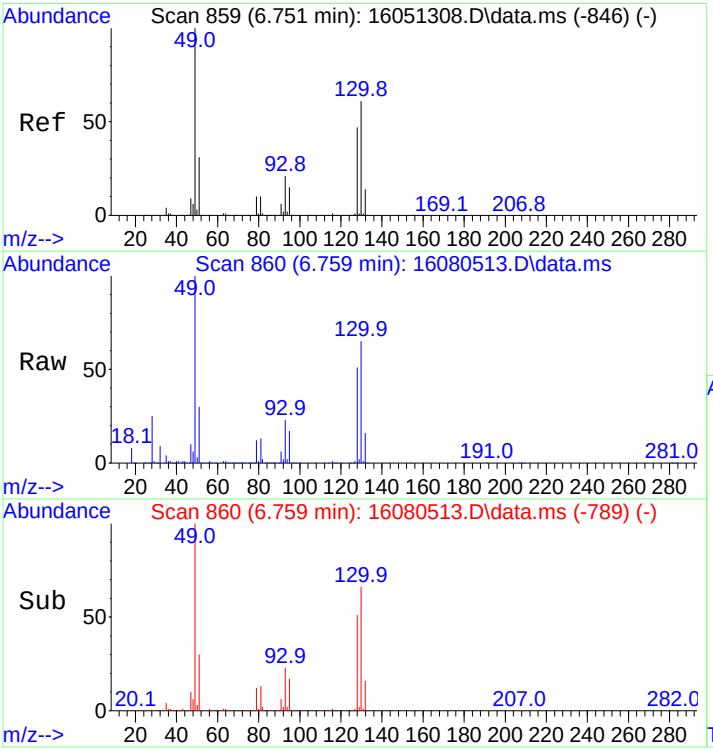
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160805copy\
Data File : 16080513.D
Acq On : 5 Aug 2016 6:10 pm
Operator : SG Instrument MSD-3
Sample : L1806542-7
Misc : Coder SG
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 15 14:28:30 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

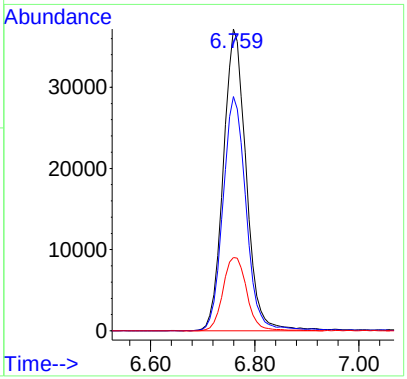


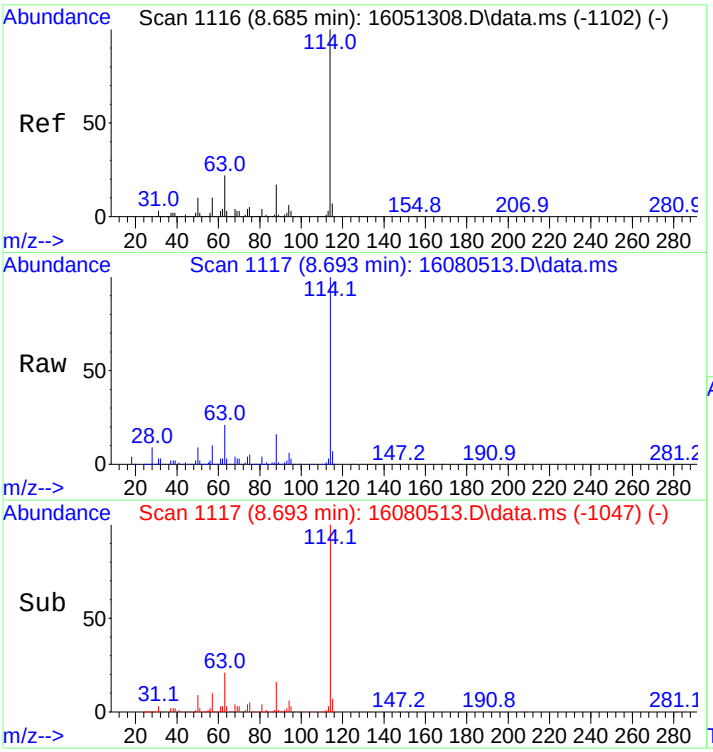


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.759 min Scan# 860
Delta R.T. 0.038 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion:130 Resp: 113041

Ion	Ratio	Lower	Upper
130	100		
128	78.3	63.0	94.4
132	25.4	19.9	29.9

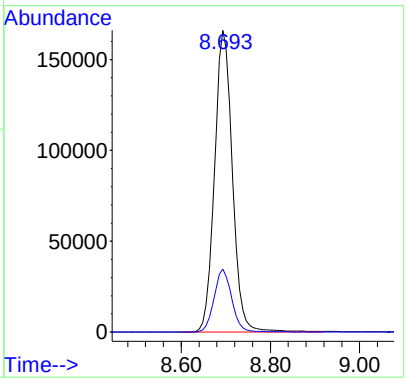


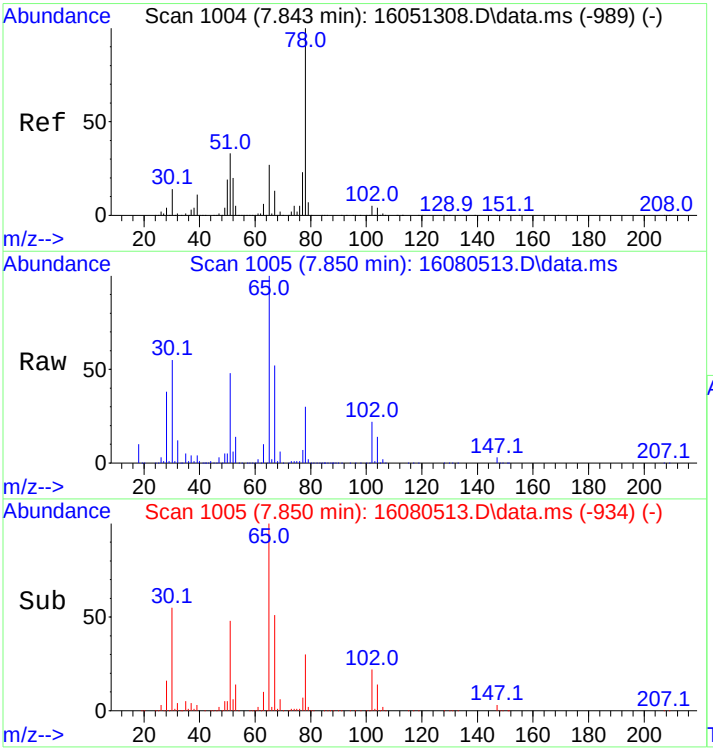


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.693 min Scan# 1117
Delta R.T. 0.030 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion:114 Resp: 461336

Ion	Ratio	Lower	Upper
114	100		
63	20.6	17.8	26.8

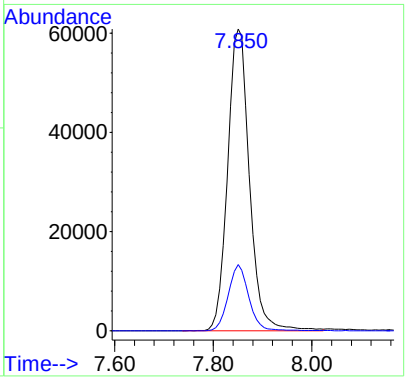


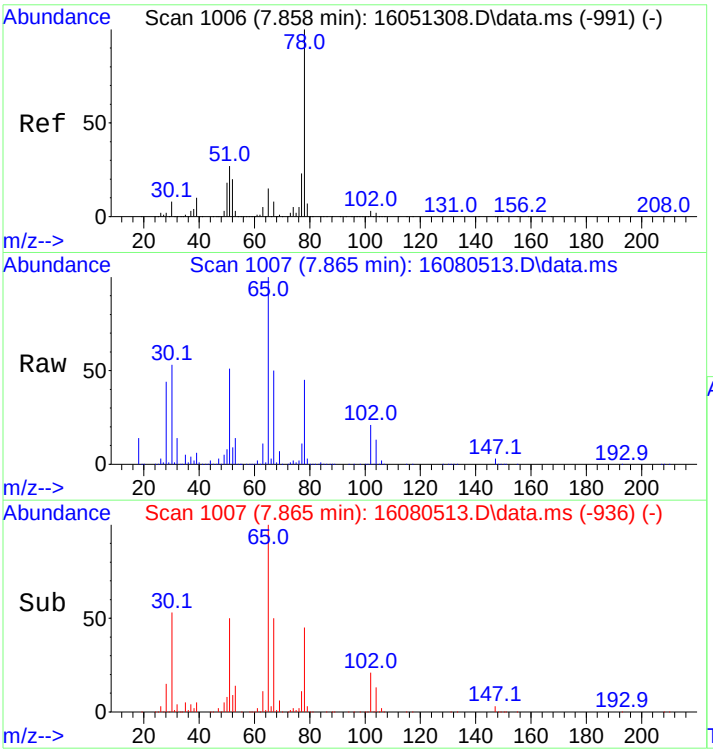


#21
d4-1,2-Dichloroethane(SURR)
Concen: 299.59 ng
RT: 7.850 min Scan# 1005
Delta R.T. 0.038 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion: 65 Resp: 187215

Ion	Ratio	Lower	Upper
65	100		
102	20.6	16.5	24.7

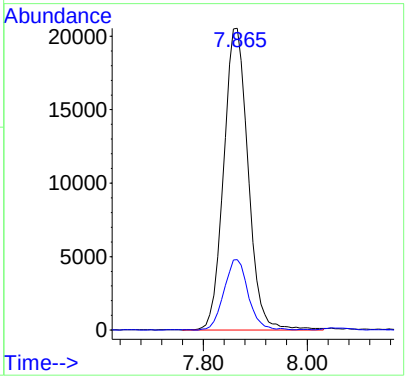


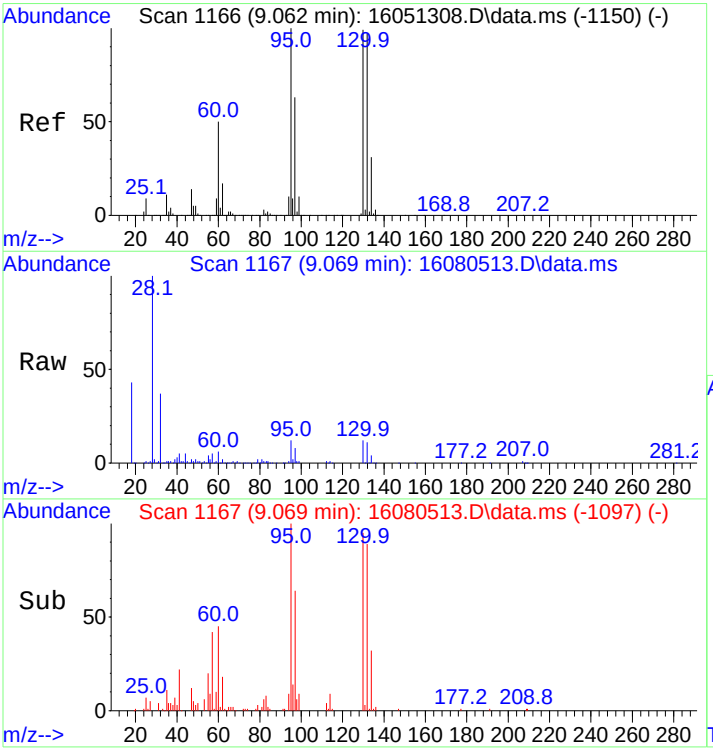


#23
Benzene
Concen: 19.99 ng
RT: 7.865 min Scan# 1007
Delta R.T. 0.038 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion: 78 Resp: 66779

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.3	27.5

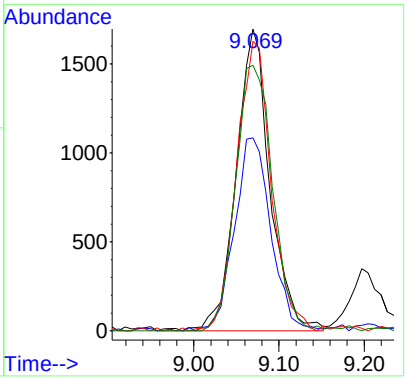


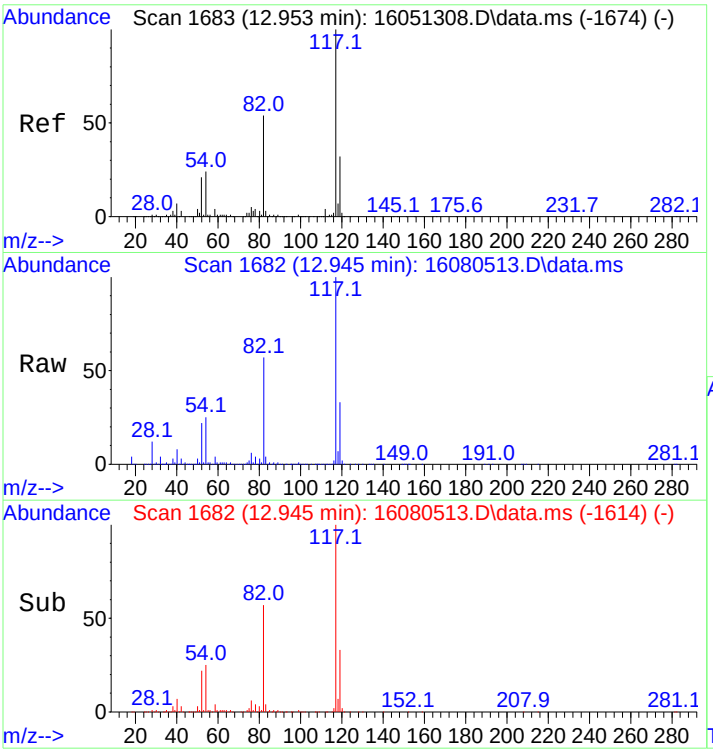


#25
Trichloroethene
Concen: 6.25 ng
RT: 9.069 min Scan# 1167
Delta R.T. 0.030 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion: 95 Resp: 4681

Ion	Ratio	Lower	Upper
95	100		
97	69.0	51.8	77.8
130	98.4	81.9	122.9
132	97.4	81.2	121.8

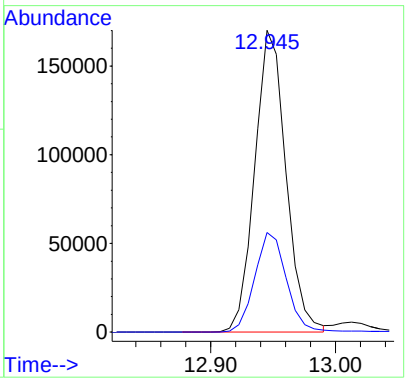


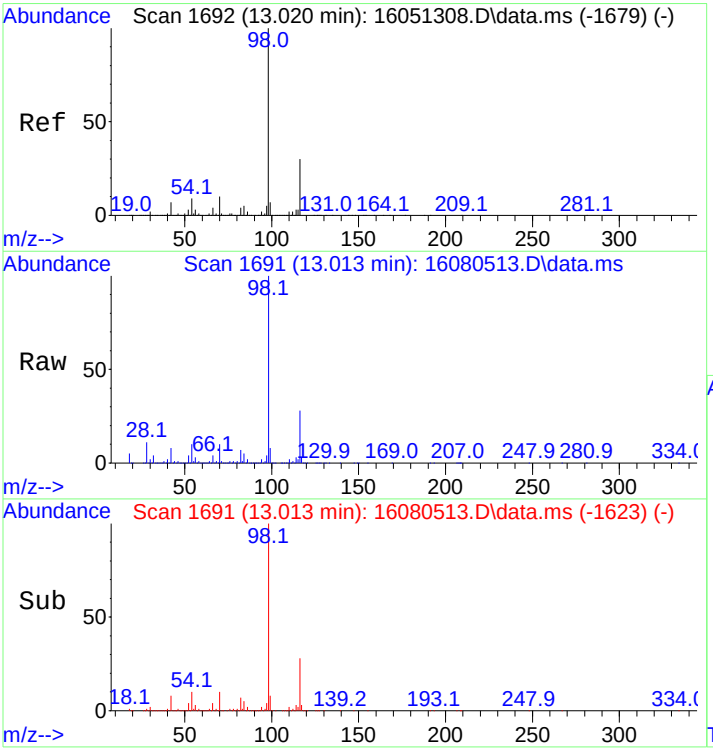


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.945 min Scan# 1682
Delta R.T. 0.015 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion:117 Resp: 295212

Ion	Ratio	Lower	Upper
117	100		
119	34.0	25.8	38.8

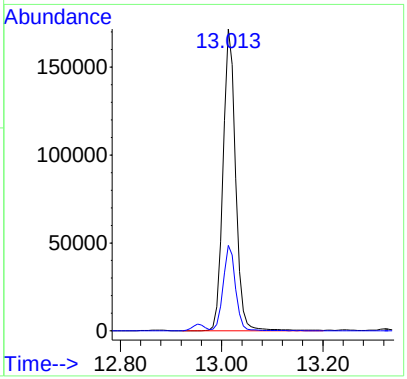


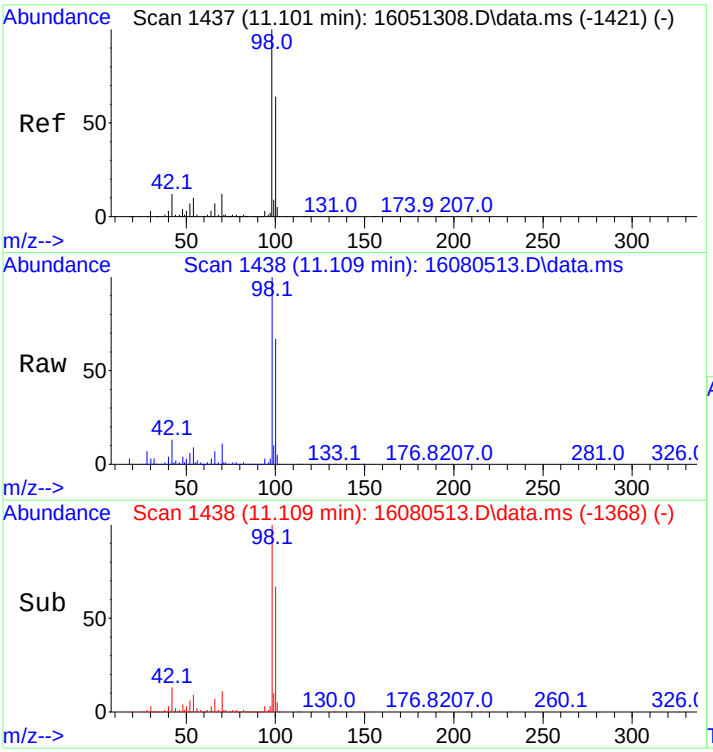


#48
d10-Ethylbenzene(SPK)
Concen: 146.88 ng
RT: 13.013 min Scan# 1691
Delta R.T. 0.015 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion: 98 Resp: 298055

Ion	Ratio	Lower	Upper
98	100		
116	27.8	23.4	35.0

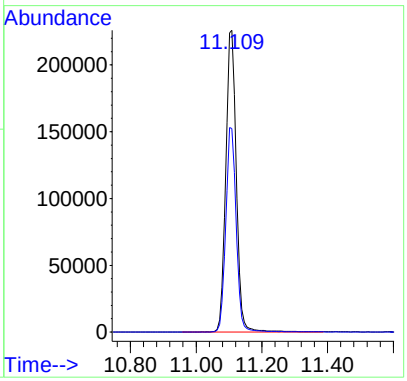


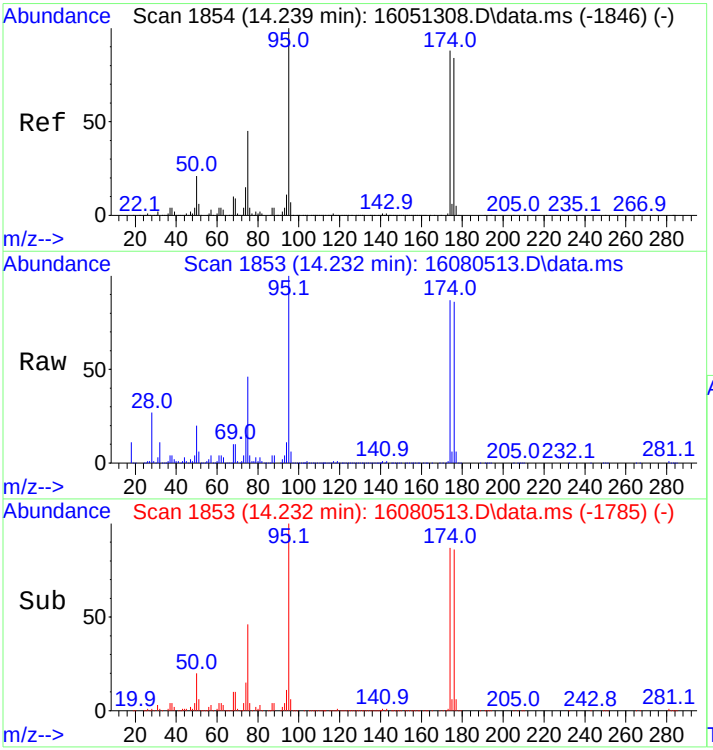


#49
d8-Toluene(SURR)
Concen: 287.46 ng
RT: 11.109 min Scan# 1438
Delta R.T. 0.030 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion: 98 Resp: 502739

Ion	Ratio	Lower	Upper
98	100		
100	67.1	56.0	84.0

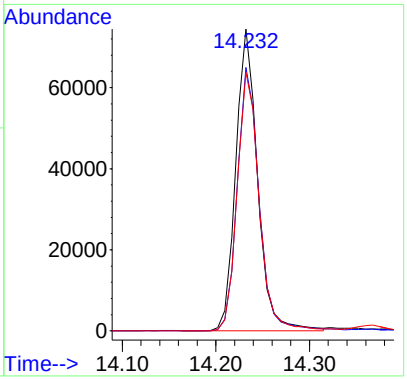




#50
4-Bromofluorobenzene(SURR)
Concen: 207.23 ng
RT: 14.232 min Scan# 1853
Delta R.T. 0.015 min
Lab File: 16080513.D
Acq: 5 Aug 2016 6:10 pm

Tgt Ion: 95 Resp: 120501

Ion	Ratio	Lower	Upper
95	100		
174	87.4	67.8	101.8
176	86.3	64.8	97.2



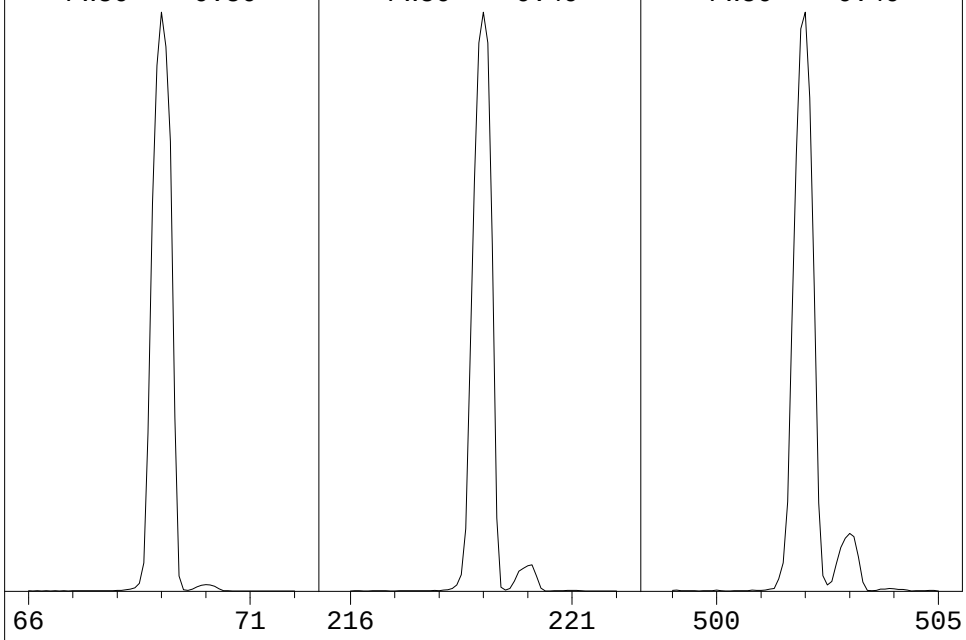
```
   Sequence Name: C:\MSDCHEM\1\SEQUENCE\3-160809-VOST.S
         Comment:
        Operator: SG          Instrument MSD-3
       Data Path: C:\MSDCHEM\1\DATA\2016\1608\160809\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run      Sequence Barcode Options
    (X) Full Method             (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only       ( ) On Mismatch, Don't Inject
                                ( ) Barcode Disabled
   ----------------------------------------------------------------------
   Line                  Sample Name/Misc Info
 1) Sample         1  50ngBFB
     Datafile         16080901
     Method           BFBRX140N
 2)  Sample        2  16080902 VOSTRXN  blank
 3)  Sample        3  16080903 VOSTRXN  250ng VOST STD
 4)  Sample        4  16080904 VOSTRXN  250ng control STD
 5)  Sample        5  16080905 VOSTRXN  VOST-blank
 6)  Sample        6  16080906 VOSTRXN  VOST-blank
 7)  Sample        7  16080907 VOSTRXN  L1806542-10
 8)  Sample        8  16080908 VOSTRXN  L1806554-10
 9)  Sample        9  16080909 VOSTRXN  L1806542-6
10)  Sample       10  16080910 VOSTRXN  L1806554-6
11)  Sample       11  16080911 VOSTRXN  L1806542-4
12)  Sample       12  16080912 VOSTRXN  L1806554-4
13)  Sample       13  16080913 VOSTRXN  L1806542-8
14)  Sample       14  16080914 VOSTRXN  L1806554-8
15)  Sample       15  16080915 VOSTRXN  blank
```

5975 BFB Dynamic Target Tune

Tue Aug 09 09:26:53 2016 Instrument: ONLINE

C:\MSDCHEM\1\5975\bfb.u US10272620

Mass	69.00	Mass	219.00	Mass	502.00
Ab	872314	Ab	468690	Ab	24190
Pw50	0.50	Pw50	0.49	Pw50	0.49



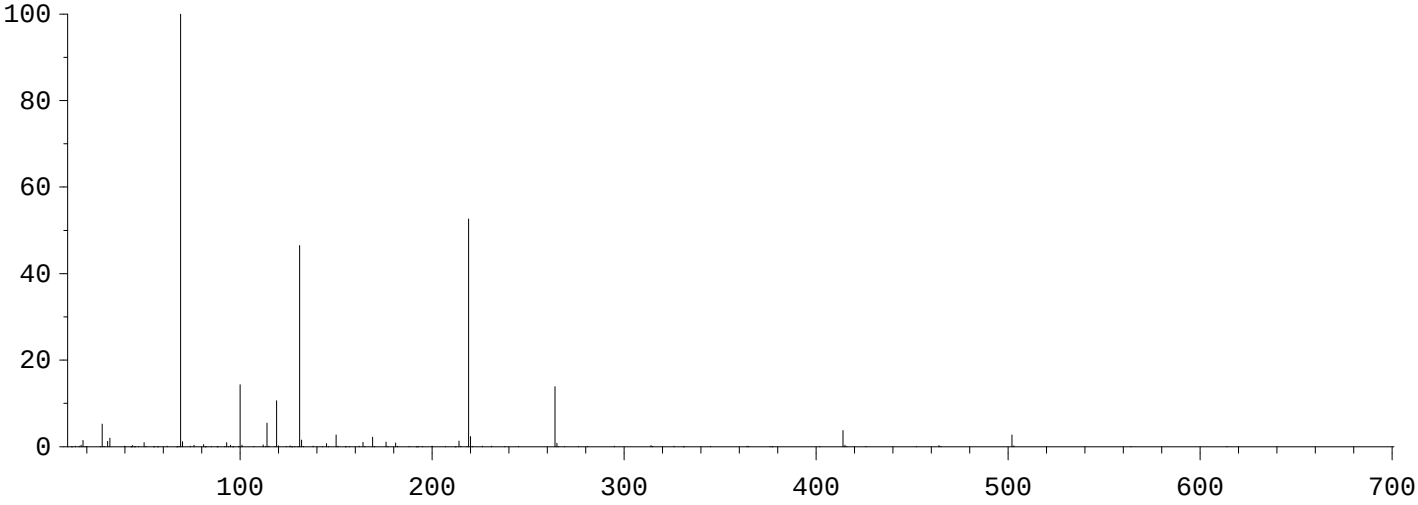
Ion Pol	Pos	MassGain	-477
		MassOffs	-39
Emission	34.6	AmuGain	2305
EIEnrgy	69.9	AmuOffs	127.25
Filament	1	Wid219	-0.030
		DC Pol	Pos
Repeller	19.90		
IonFcus	72.1	HEDEnab	On
EntLens	0.0	EMVolts	1612
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e+00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10

118 peaks Base: 69.00 Abundance: 799936



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	799936	100.00	70.00	9431	1.18
219.00	421056	52.64	220.00	18864	4.48
502.00	21768	2.72	503.00	1895	8.71

Air/Water Check: H20~1.49% N2~5.25% O2~1.97% CO2~0.29% N2/H2O~353.45%

Column(1) Flow: 0 Column(2): -1.79769e+308 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 69; EM Gain 208552

Repeller Maximum 20 volts using ion 219; Gain Factor 2.09

MassGain Values(Samples): -469(3) -456(2) -441(1) -409(0) -366(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	127.3	127.3	127.3	127.3	127.3	127.3	127.3
Entrance Lens Offset:	13.3	12.8	14.1	17.1	23.1	23.1	23.1
Target Abund(%):	1.0	100.0	45.0	52.0	3.5	2.5	
Actual Tune Abund(%):	1.0	100.0	46.5	52.6	3.7	2.7	

BFB

Data Path : C:\msdchem\1\data\2016\1608\160809\
Data File : 16080901.D
Acq On : 9 Aug 2016 9:48 am
Operator : SG Instrument MSD-3
Sample : 50ngBFB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Title : Volatiles VOST
Last Update : Fri Aug 12 15:28:02 2016

AutoFind: Scans 1287, 1288, 1289; Background Corrected with Scan 1270

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	3874	PASS
75	95	30	60	49.7	9179	PASS
95	95	100	100	100.0	18462	PASS
96	95	5	9	6.8	1258	PASS
173	174	0.00	2	0.6	94	PASS
174	95	50	100	83.8	15478	PASS
175	174	5	9	7.2	1110	PASS
176	174	95	101	100.4	15546	PASS
177	176	5	9	6.6	1026	PASS

VOST160513Q7PTrev(RT).M Fri Aug 19 09:53:02 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160809\
Data File : 16080903.D
Acq On : 9 Aug 2016 10:50 am
Operator : SG Instrument MSD-3
Sample : 250ng VOST STD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 19 10:20:28 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.736	130	106173	250.00 ng	0.02
20) 1,4-Difluorobenzene	8.671	114	387482	250.00 ng	0.00
32) d5-Chlorobenzene	12.930	117	292892	250.00 ng	0.00
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.828	65	168190	320.45 ng	0.02
Spiked Amount 250.000			Recovery	= 128.18%	
48) d10-Ethylbenzene(SPK)	12.998	98	500650	248.68 ng	0.00
Spiked Amount 200.000			Recovery	= 124.34%	
49) d8-Toluene(SURR)	11.086	98	423609	244.13 ng	0.00
Spiked Amount 250.000			Recovery	= 97.65%	
50) 4-Bromofluorobenzene(S...	14.217	95	183840	318.67 ng	0.00
Spiked Amount 250.000			Recovery	= 127.47%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.717	85	123298	175.05 ng	98
3) Chloromethane	1.905	50	171349	205.12 ng	100
4) Vinyl Chloride	2.010	62	208252	207.43 ng	99
5) Bromomethane	2.364	94	55805	125.06 ng	100
6) Chloroethane	2.469	64	112476	215.17 ng	98
7) Trichlorofluoromethane	2.748	101	334044	223.06 ng	99
8) 1,1-Dichloroethene	3.357	61	421412	233.48 ng	99
9) Acetone	3.403	43	98354	146.41 ng	94
10) Iodomethane	3.546	142	151523m	211.66 ng	
11) Carbon disulfide	3.636	76	618669	218.96 ng	98
12) Methylene Chloride	4.050	49	249625	199.85 ng	92
13) trans,1,2-Dichloroethene	4.486	61	297876	248.63 ng	97
14) 1,1-Dichloroethane	5.261	63	317032	213.35 ng	98
15) Vinyl Acetate	5.314	43	70403	92.99 ng	99
16) cis,1,2-Dichloroethene	6.307	61	302049	217.53 ng	96
17) 2-Butanone	6.315	43	38626	80.42 ng	92
18) Chloroform	6.962	83	345574	247.90 ng	96
19) 1,1,1-Trichloroethane	7.203	97	109733	137.66 ng	99
22) Carbon Tetrachloride	7.474	117	194363	262.56 ng	97
23) Benzene	7.843	78	639231	227.88 ng	99
24) 1,2-Dichloroethane	7.963	62	212809	265.01 ng	98
25) Trichloroethene	9.047	95	172767	274.72 ng	92
26) 1,2-Dichloropropane	9.498	63	140548	218.58 ng	99
27) Dibromomethane	9.634	93	105407	292.67 ng	91
28) Bromodichloromethane	9.995	83	190252	271.74 ng	98
29) cis,1,3-Dichloropropene	10.710	75	130148	181.45 ng	100
30) trans,1,3-Dichloropropene	11.553	75	75710	155.19 ng	99
31) 4-Methyl-2-Pentanone	10.958	43	157144	165.96 ng	96
33) Toluene	11.177	91	580260	199.74 ng	98
34) 1,1,2-Trichloroethane	11.801	83	120049	239.11 ng	96
35) Tetrachloroethene	11.869	166	152594	200.56 ng	97
36) 2-Hexanone	12.095	43	104342	140.00 ng	94
37) Chlorodibromomethane	12.260	129	155347	228.13 ng	100
38) Ethylene Dibromide	12.381	107	141758	228.06 ng	99
39) Chlorobenzene	12.960	112	397944	222.92 ng	100
40) 1,1,1,2-Tetrachloroethane	13.081	131	174706	275.75 ng	98
41) Ethylbenzene	13.088	91	785753	238.08 ng	98
42) M&P-Xylene	13.239	91	1429442	509.31 ng	97
43) O-Xylene	13.653	91	725937	249.52 ng	98
44) Styrene	13.675	104	536046	215.85 ng	92
45) Bromoform	13.856	173	122141	227.58 ng	98
46) 1,1,2,2-Tetrachloroethane	14.368	83	154749m	182.45 ng	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160809\
Data File : 16080903.D
Acq On : 9 Aug 2016 10:50 am
Operator : SG Instrument MSD-3
Sample : 250ng VOST STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 19 10:20:28 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,2,3-Trichloropropane	14.413	75	137088	195.66 ng	99
51) Isopropylbenzene	14.036	105	822870	243.36 ng	99
52) 1,3,5-Trimethylbenzene	14.646	105	834582	253.27 ng	99
53) 1,2,4-Trimethylbenzene	15.007	105	835037	256.64 ng	99
54) 1,3-Dichlorobenzene	15.278	146	447670	263.63 ng	99
55) 1,4-Dichlorobenzene	15.376	146	456207	254.17 ng	100
56) 1,2-Dichlorobenzene	15.707	146	405317	252.36 ng	99
57) 1,2,4-Trichlorobenzene	17.167	180	117417	86.20 ng	98
58) Hexachlorobutadiene	17.287	225	127046	177.43 ng	99
59) Naphthalene	17.408	128	64620	19.33 ng	99
60) 1,1-Dichloropropene	7.504	75	218016	234.20 ng	95
61) 1,3-Dichloropropane	11.997	76	222775	214.57 ng	99
62) Bromobenzene	14.345	77	298009	247.66 ng	95
63) n-Propylbenzene	14.465	91	1129295	263.91 ng	98
64) tert-Butylbenzene	14.947	119	654126	255.36 ng	96
65) sec-Butylbenzene	15.165	105	1017312	257.72 ng	99
66) p-Isopropyltoluene	15.316	119	923529	265.38 ng	98
67) n-Butylbenzene	15.692	91	893295	265.52 ng	97
68) 1,2-Dibromo-3-chloropr...	16.437	157	14123	66.85 ng	92

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

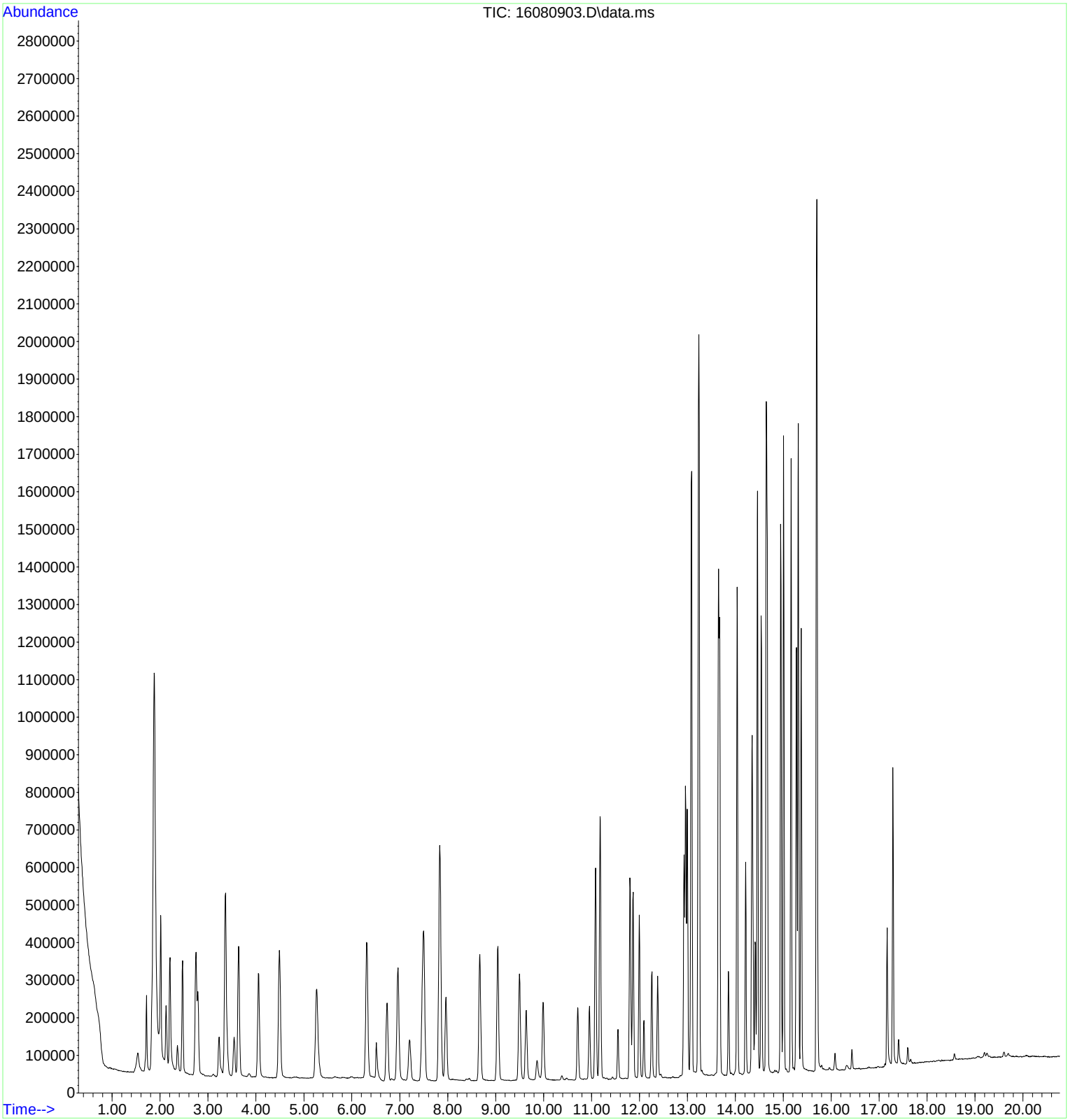
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

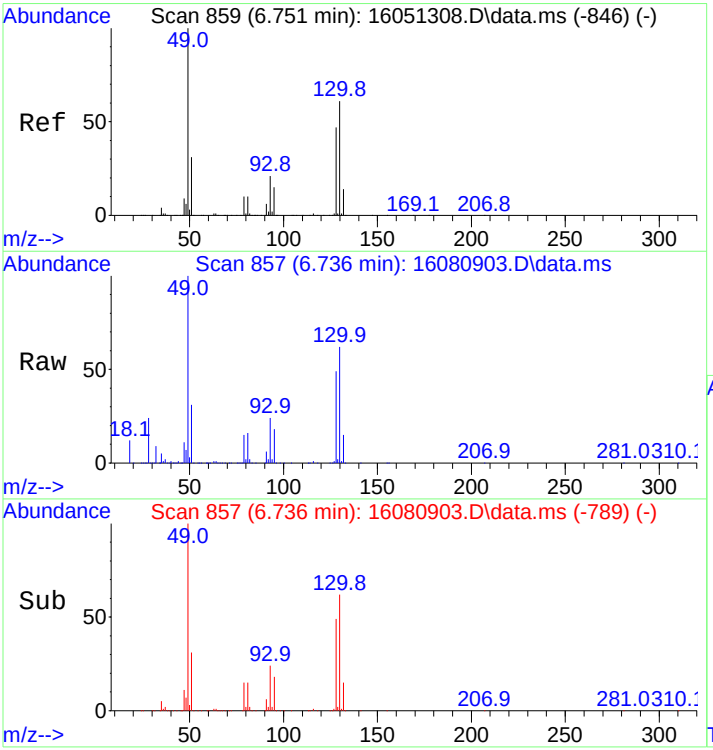
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080903.D
Acq On : 9 Aug 2016 10:50 am
Operator : SG Instrument MSD-3
Sample : 250ng VOST STD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 19 10:23:31 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

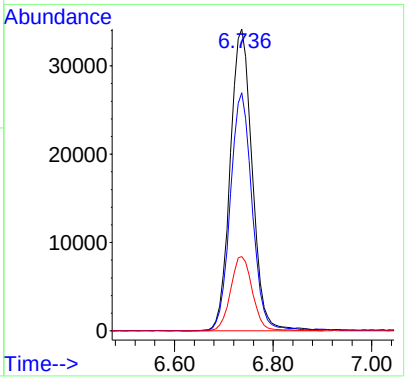


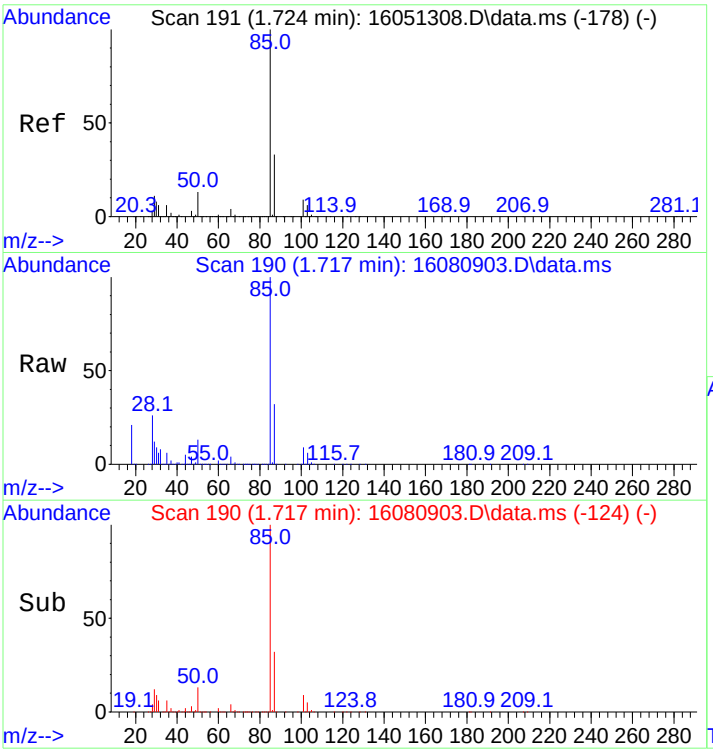


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.736 min Scan# 857
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:130 Resp: 106173

Ion	Ratio	Lower	Upper
130	100		
128	77.8	63.0	94.4
132	24.4	19.9	29.9

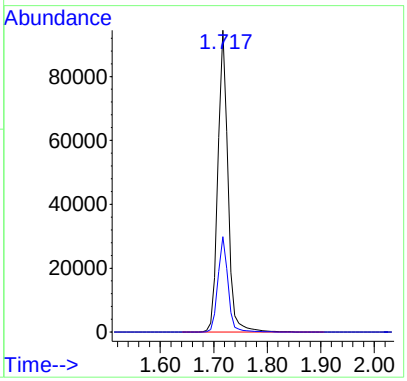


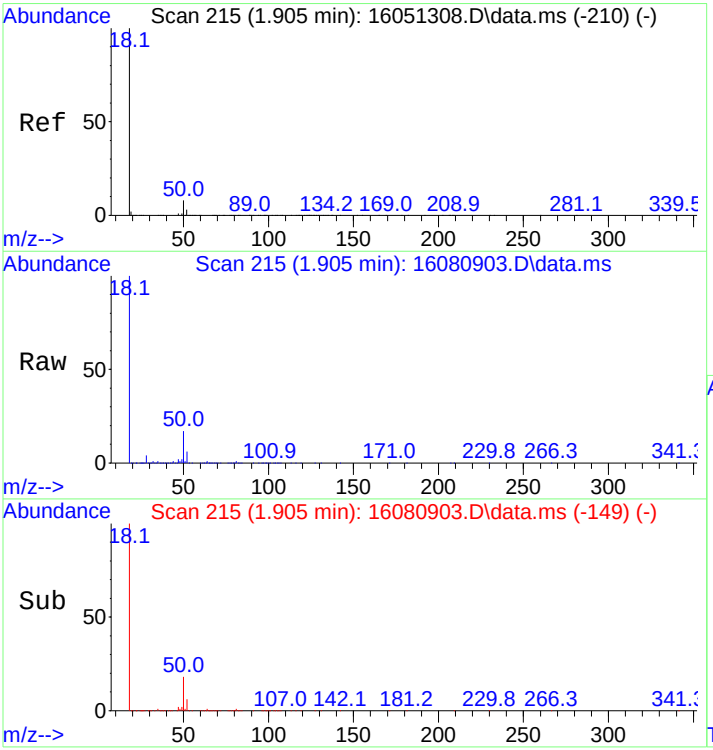


#2
Dichlorodifluoromethane
Concen: 175.05 ng
RT: 1.717 min Scan# 190
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 85 Resp: 123298

Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.0	39.0

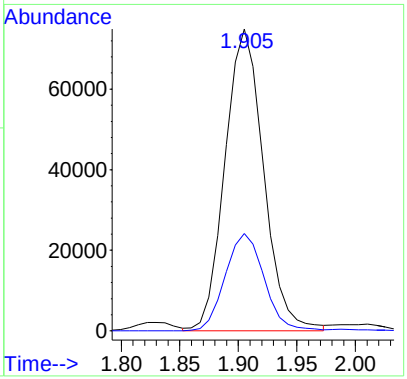


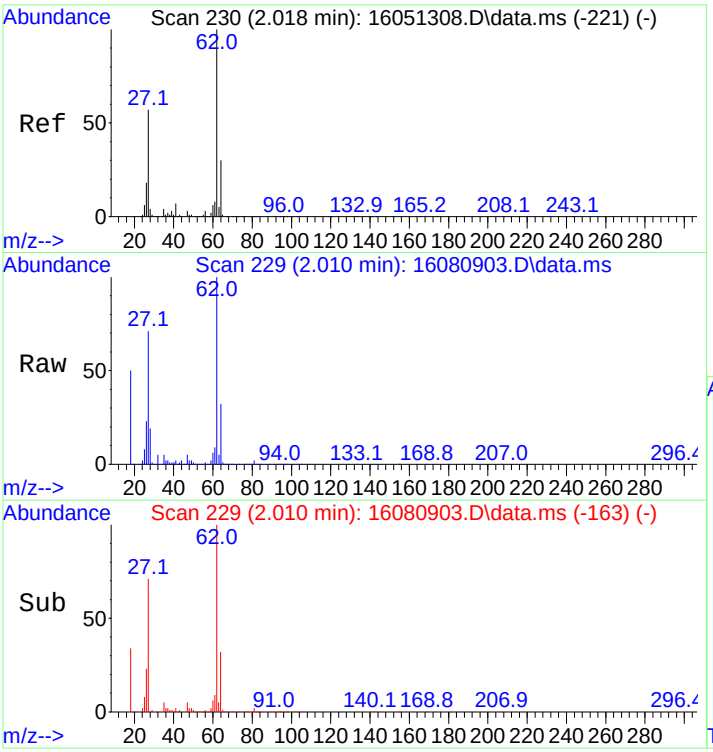


#3
Chloromethane
Concen: 205.12 ng
RT: 1.905 min Scan# 215
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 50 Resp: 171349

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

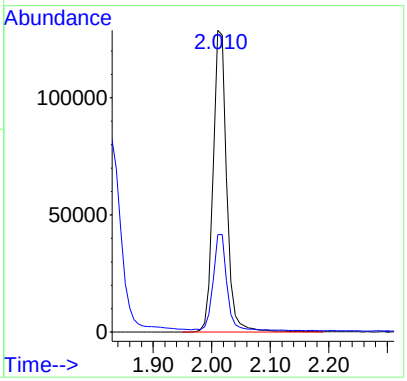


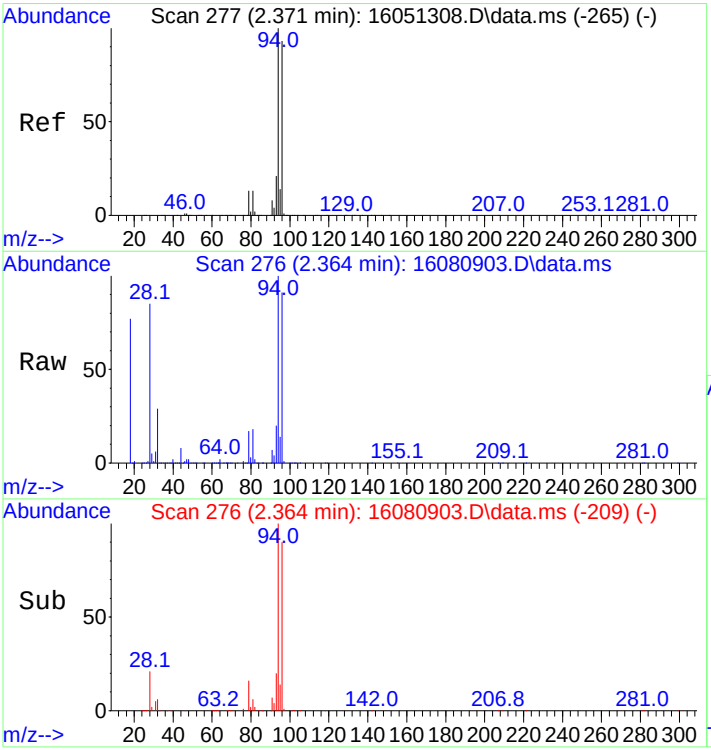


#4
Vinyl Chloride
Concen: 207.43 ng
RT: 2.010 min Scan# 229
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 62 Resp: 208252

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.7	38.5

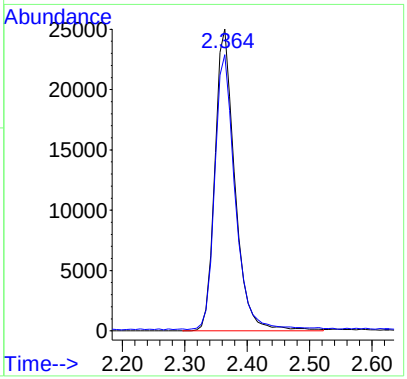


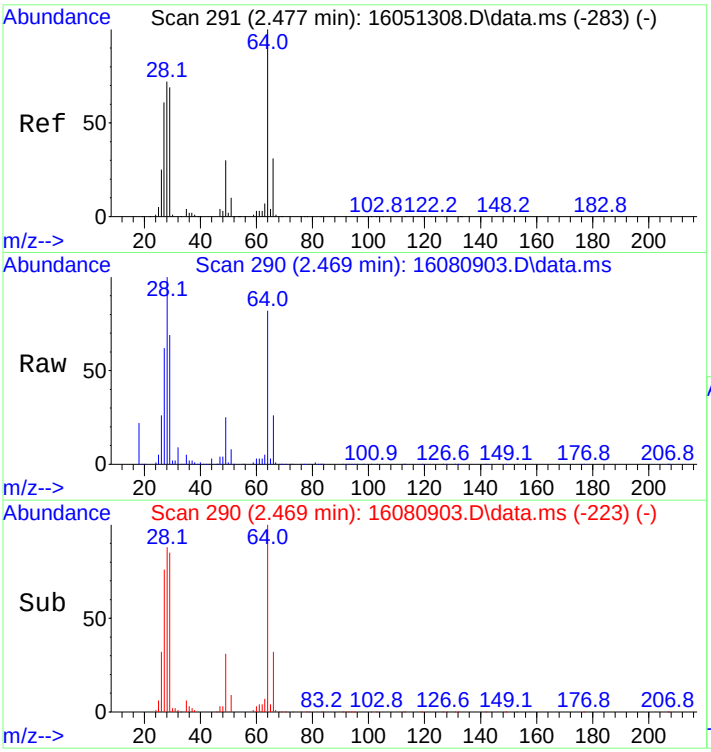


#5
Bromomethane
Concen: 125.06 ng
RT: 2.364 min Scan# 276
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 94 Resp: 55805

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.5	111.7

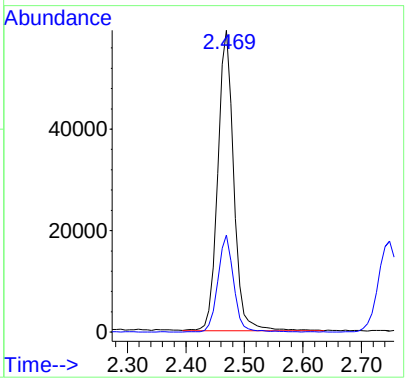


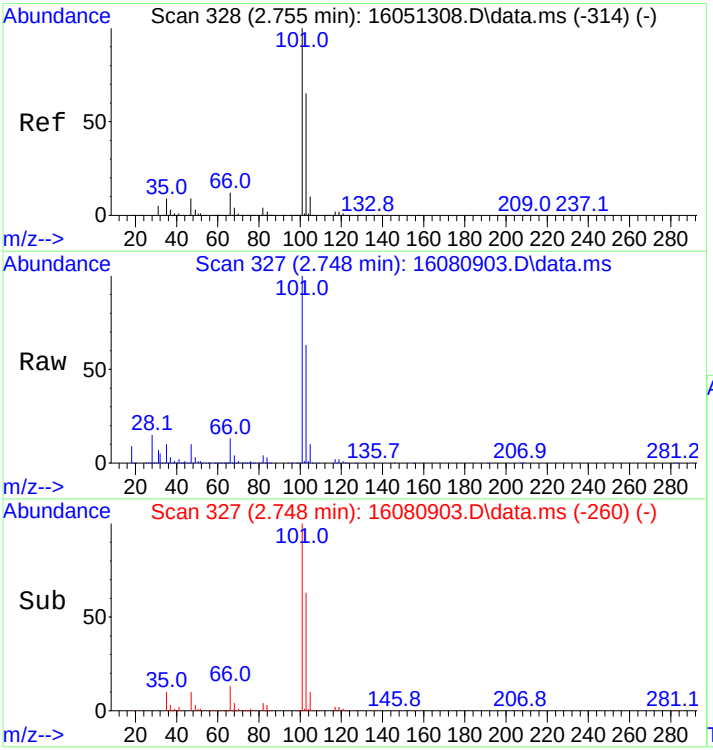


#6
Chloroethane
Concen: 215.17 ng
RT: 2.469 min Scan# 290
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 64 Resp: 112476

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.0	37.4

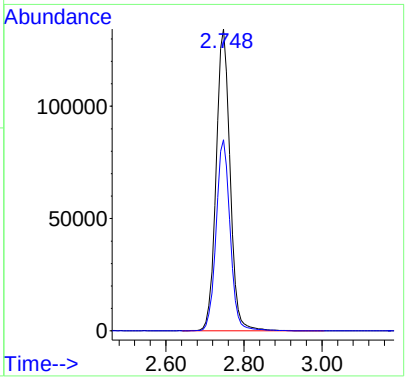


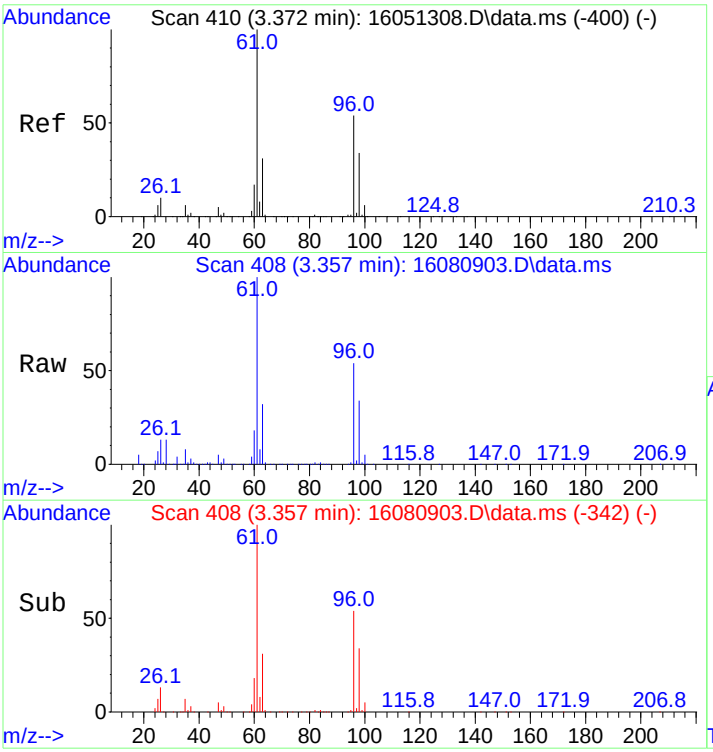


#7
Trichlorofluoromethane
Concen: 223.06 ng
RT: 2.748 min Scan# 327
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:101 Resp: 334044

Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.8	77.6

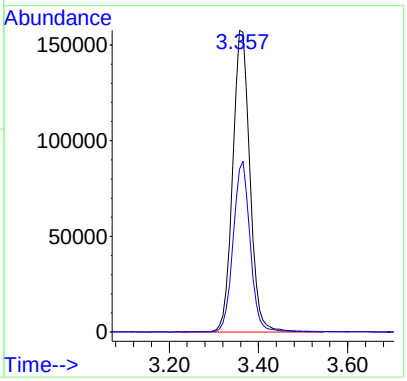


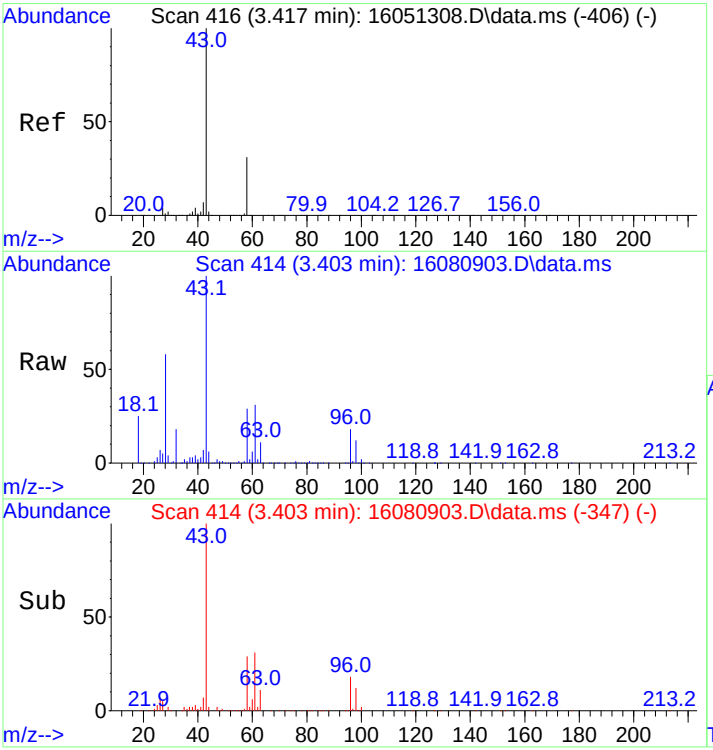


#8
1,1-Dichloroethene
Concen: 233.48 ng
RT: 3.357 min Scan# 408
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 61 Resp: 421412

Ion	Ratio	Lower	Upper
61	100		
96	55.6	44.1	66.1

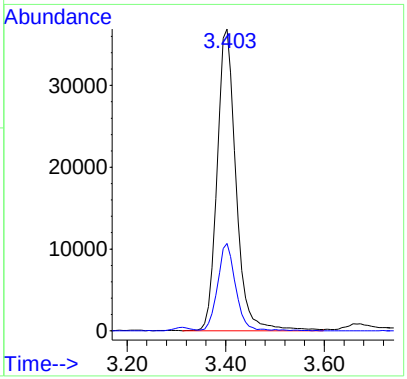


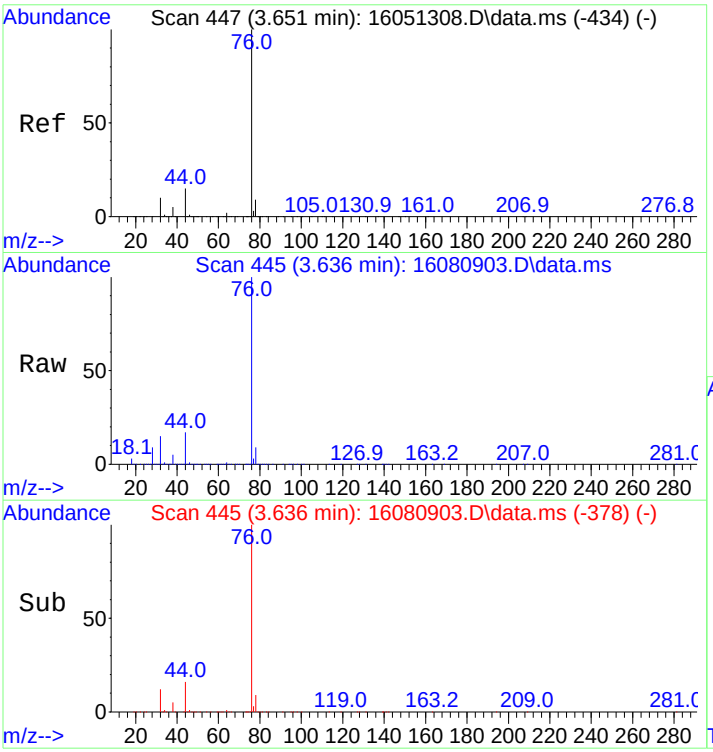


#9
Acetone
Concen: 146.41 ng
RT: 3.403 min Scan# 414
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 98354

Ion	Ratio	Lower	Upper
43	100		
58	27.4	24.7	37.1

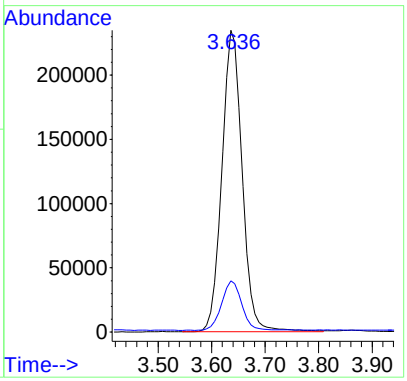


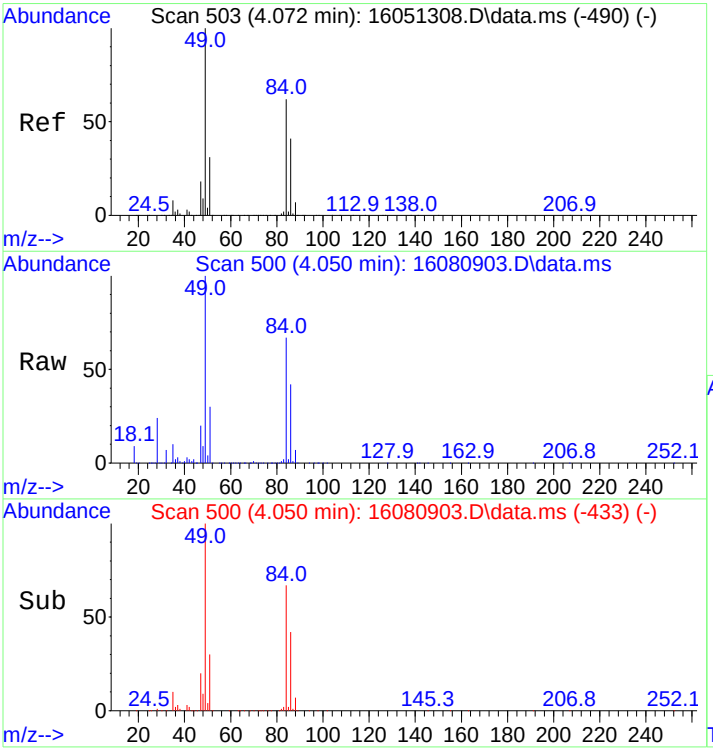


#11
Carbon disulfide
Concen: 218.96 ng
RT: 3.636 min Scan# 445
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 76 Resp: 618669

Ion	Ratio	Lower	Upper
76	100		
44	16.1	12.2	18.4

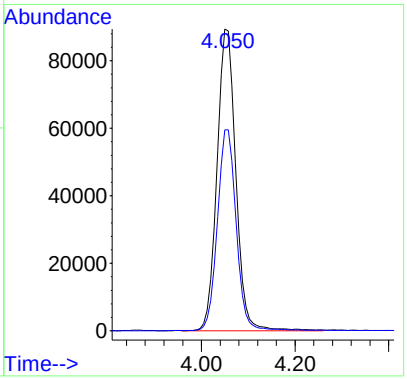


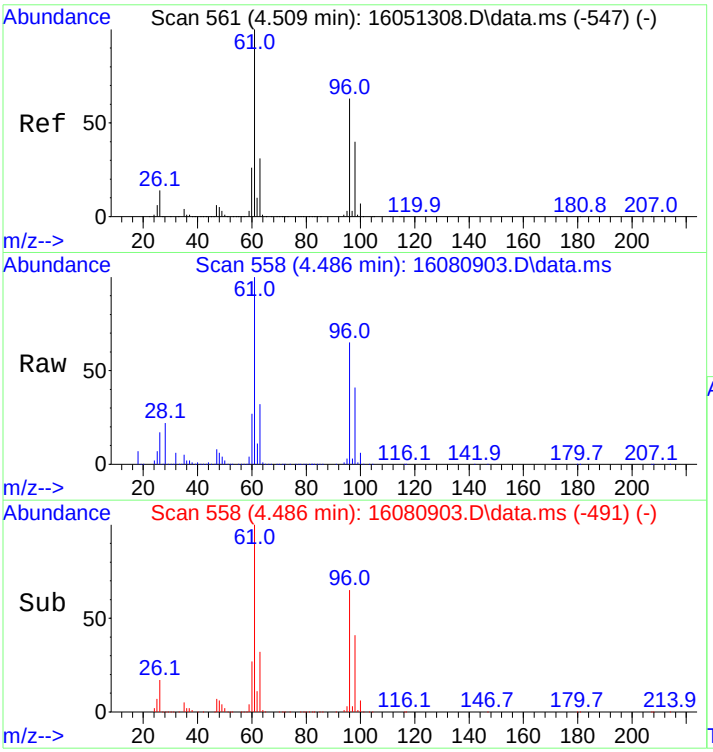


#12
Methylene Chloride
Concen: 199.85 ng
RT: 4.050 min Scan# 500
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 49 Resp: 249625

Ion	Ratio	Lower	Upper
49	100		
84	66.9	48.4	72.6

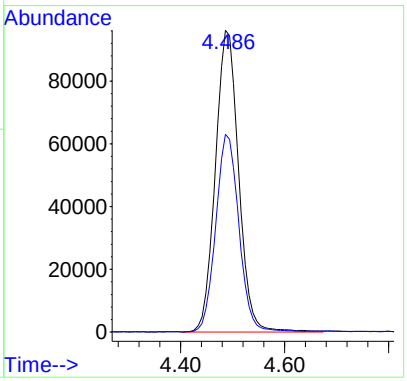


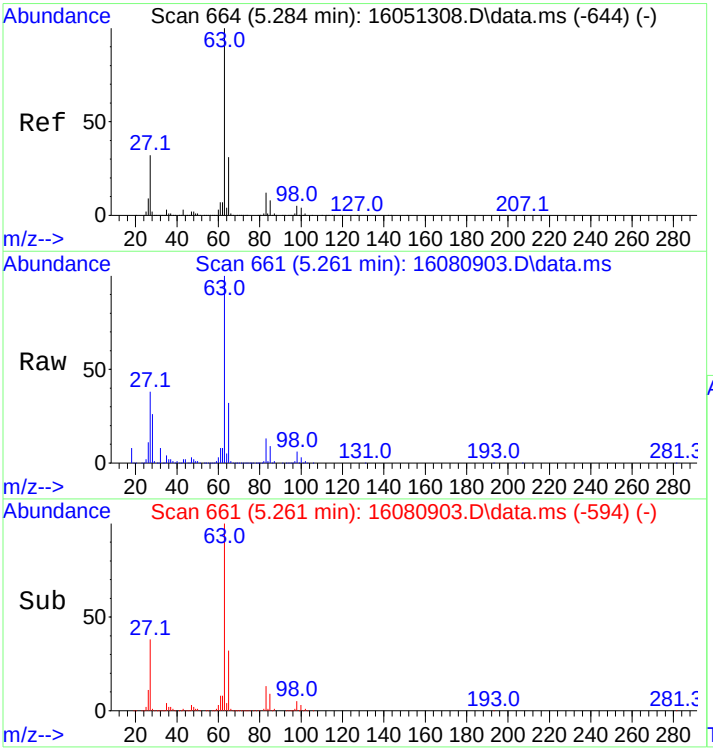


#13
trans,1,2-Dichloroethene
Concen: 248.63 ng
RT: 4.486 min Scan# 558
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 61 Resp: 297876

Ion	Ratio	Lower	Upper
61	100		
96	65.1	50.2	75.4

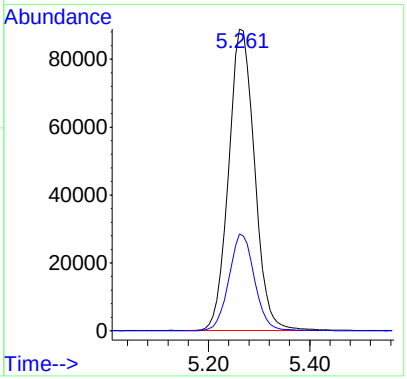


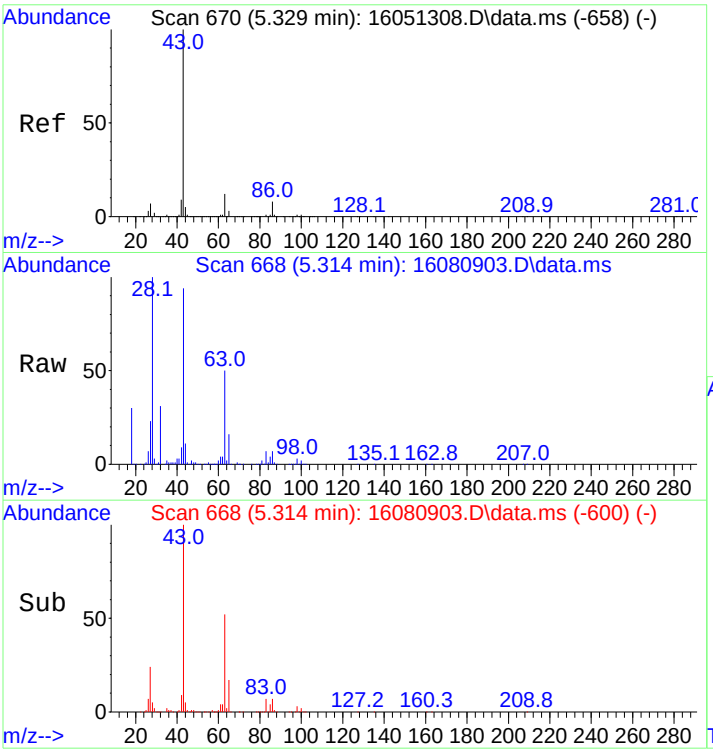


#14
1,1-Dichloroethane
Concen: 213.35 ng
RT: 5.261 min Scan# 661
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 63 Resp: 317032

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.6	37.0

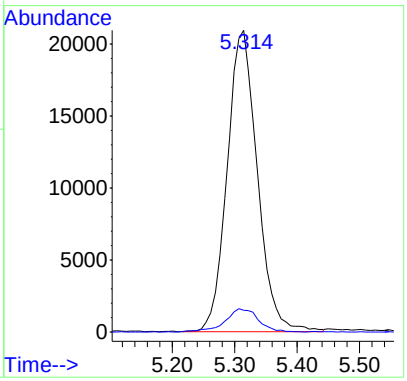


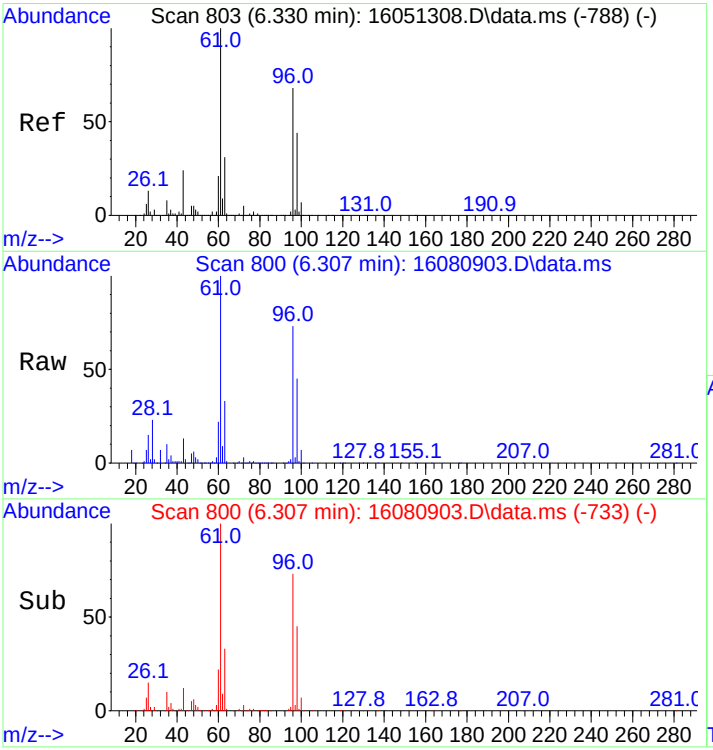


#15
Vinyl Acetate
Concen: 92.99 ng
RT: 5.314 min Scan# 668
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 70403

Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.6	9.8

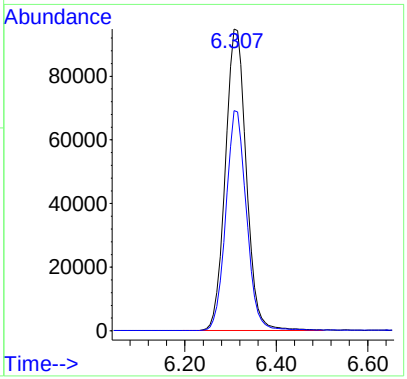


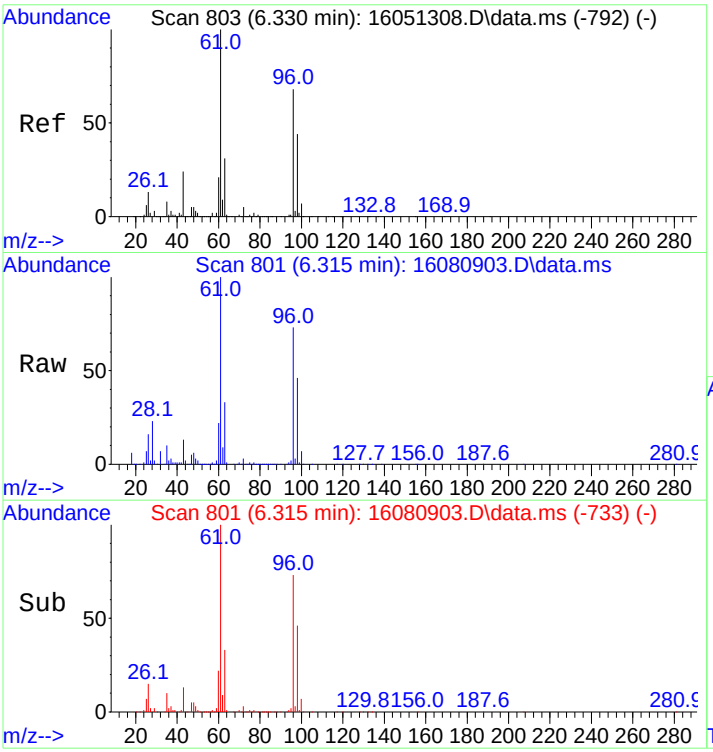


#16
cis,1,2-Dichloroethene
Concen: 217.53 ng
RT: 6.307 min Scan# 800
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 61 Resp: 302049

Ion	Ratio	Lower	Upper
61	100		
96	71.8	54.6	81.8

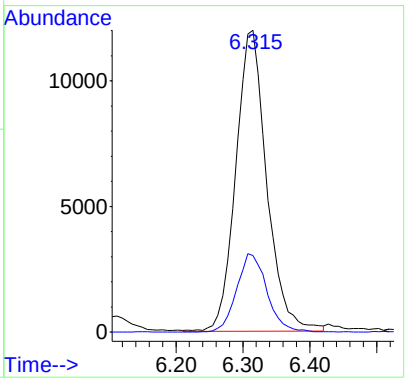


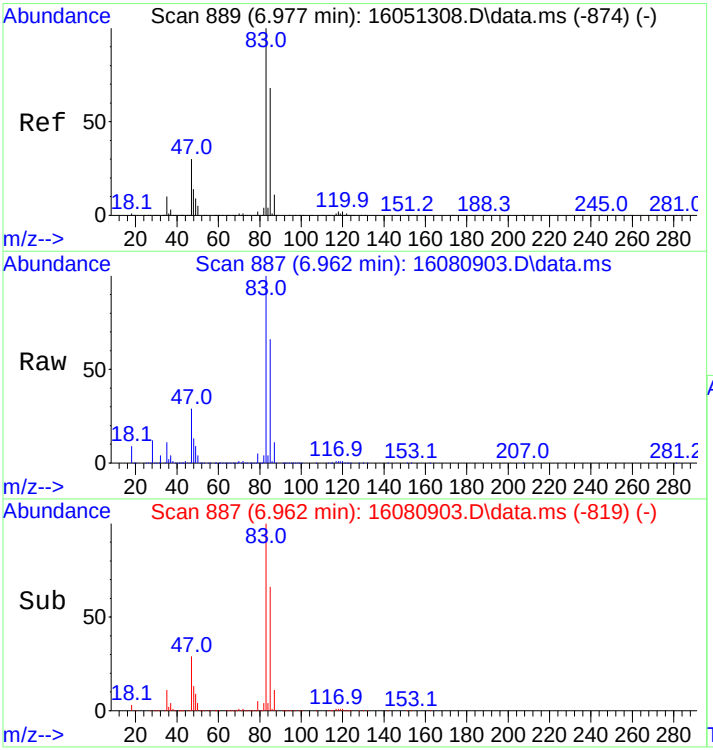


#17
2-Butanone
Concen: 80.42 ng
RT: 6.315 min Scan# 801
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 38626

Ion	Ratio	Lower	Upper
43	100		
72	25.5	17.4	26.2

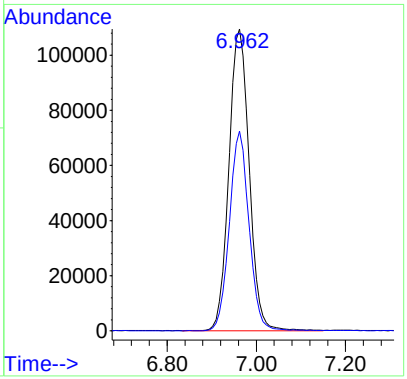


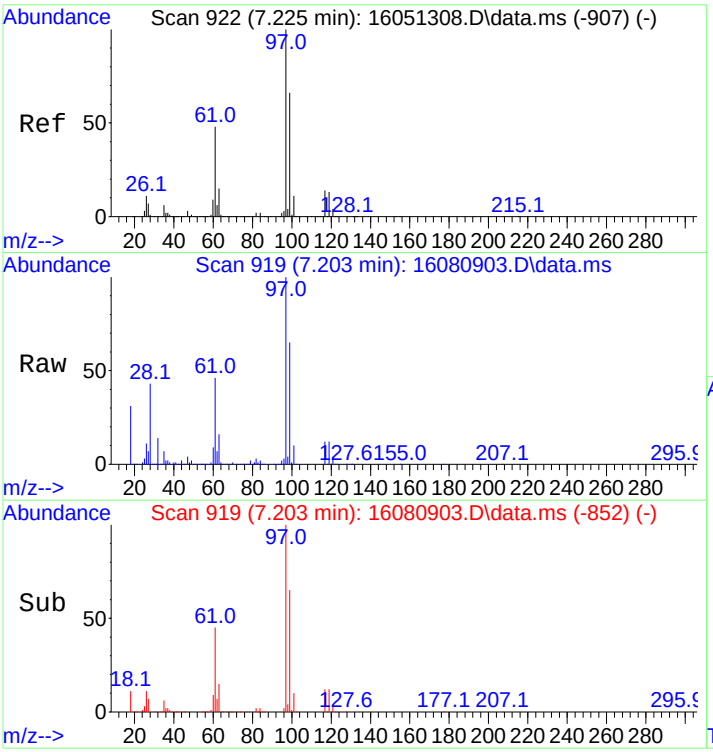


#18
Chloroform
Concen: 247.90 ng
RT: 6.962 min Scan# 887
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 345574

Ion	Ratio	Lower	Upper
83	100		
85	64.1	53.9	80.9

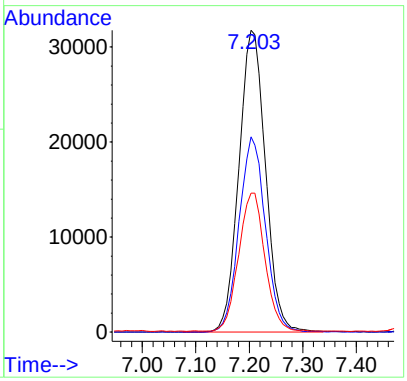


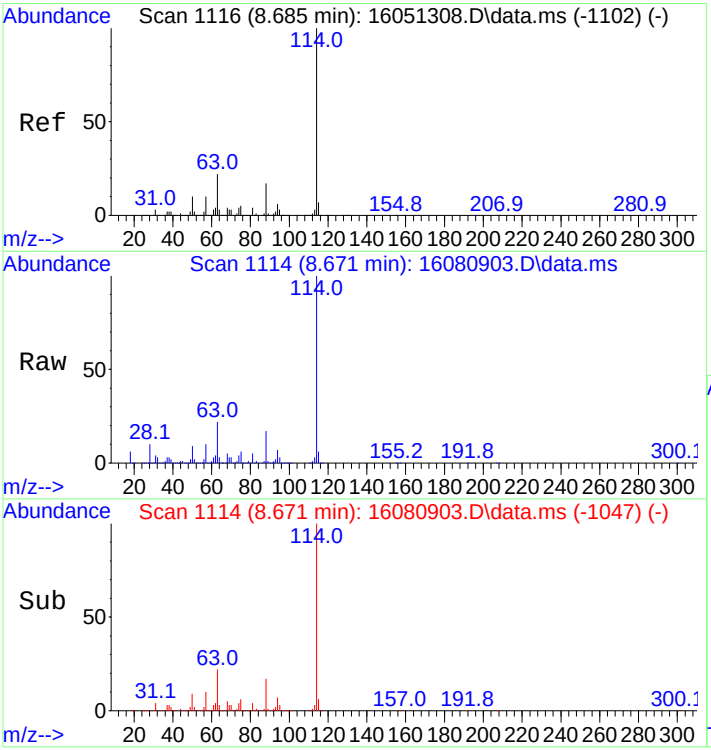


#19
1,1,1-Trichloroethane
Concen: 137.66 ng
RT: 7.203 min Scan# 919
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 97 Resp: 109733

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.3	76.9
61	45.5	37.6	56.4

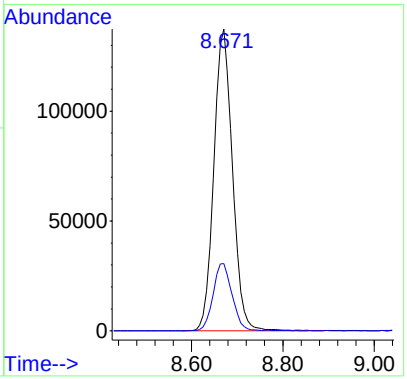


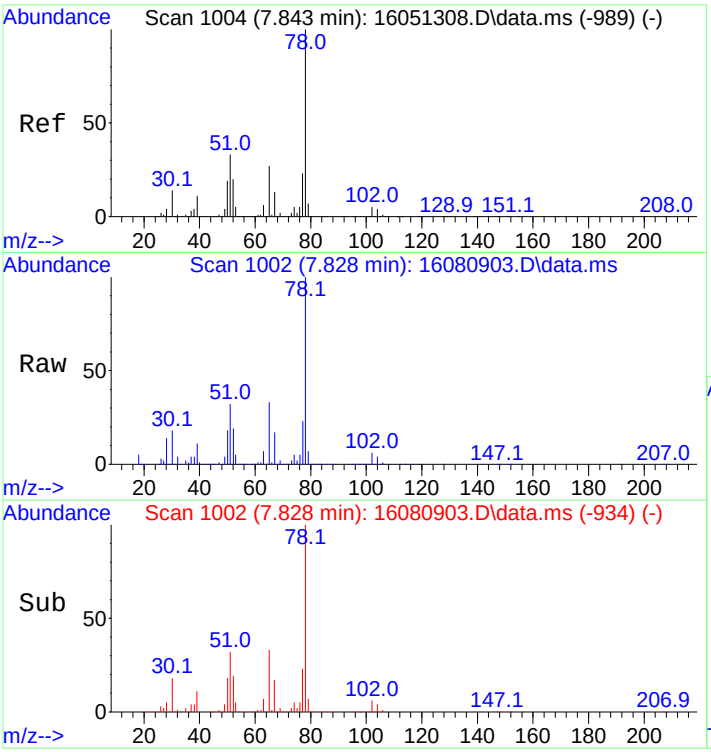


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.671 min Scan# 1114
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:114 Resp: 387482

Ion	Ratio	Lower	Upper
114	100		
63	22.8	17.8	26.8

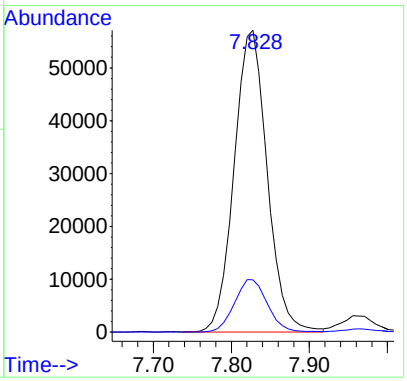


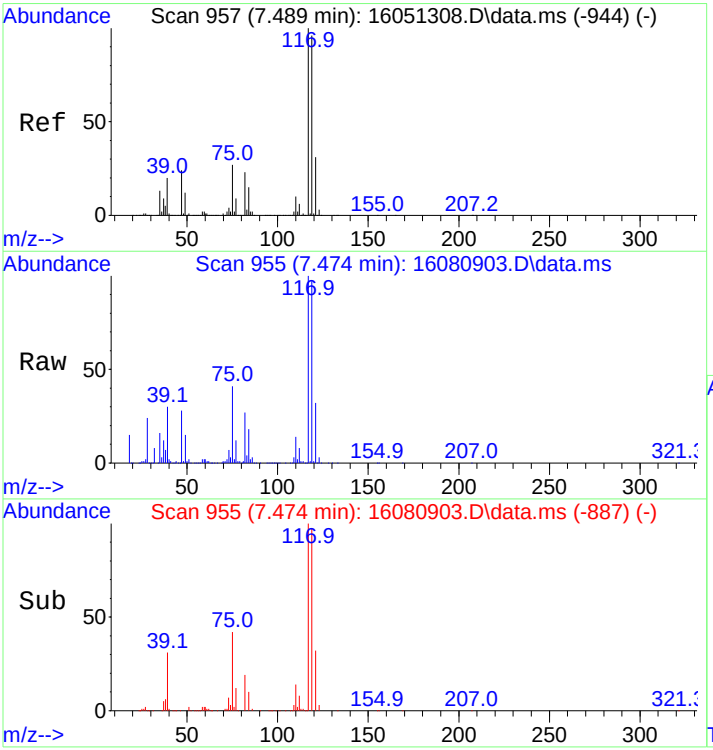


#21
d4-1,2-Dichloroethane(SURR)
Concen: 320.45 ng
RT: 7.828 min Scan# 1002
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 65 Resp: 168190

Ion	Ratio	Lower	Upper
65	100		
102	17.3	16.5	24.7

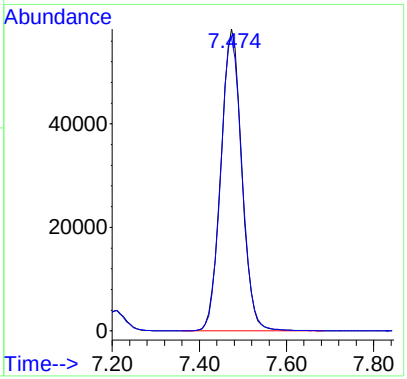


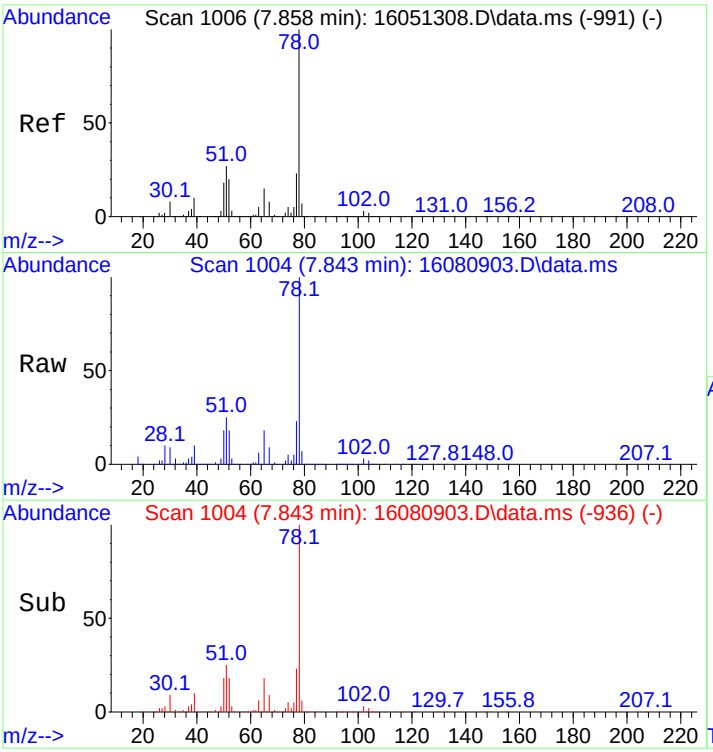


#22
Carbon Tetrachloride
Concen: 262.56 ng
RT: 7.474 min Scan# 955
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:117 Resp: 194363

Ion	Ratio	Lower	Upper
117	100		
119	98.8	77.0	115.4

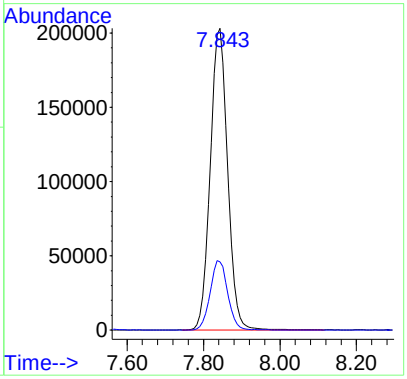


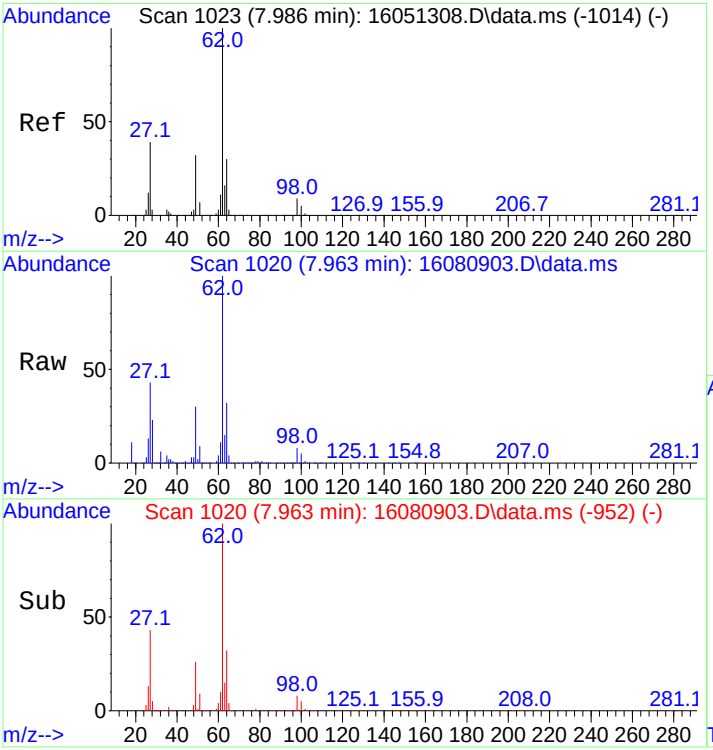


#23
Benzene
Concen: 227.88 ng
RT: 7.843 min Scan# 1004
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 78 Resp: 639231

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

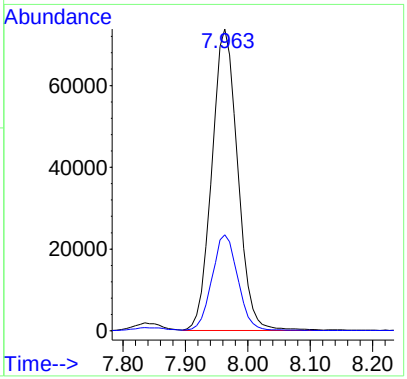


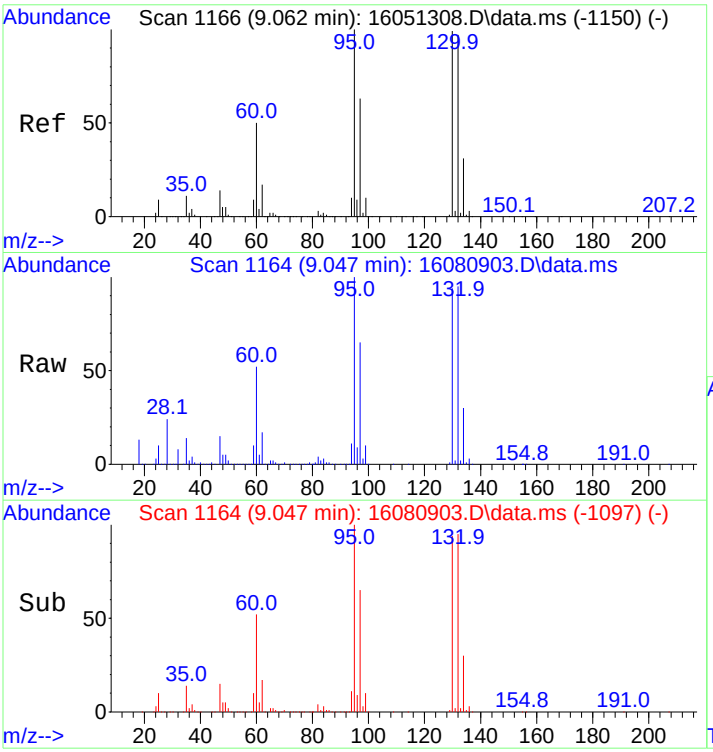


#24
1,2-Dichloroethane
Concen: 265.01 ng
RT: 7.963 min Scan# 1020
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 62 Resp: 212809

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.8	37.2

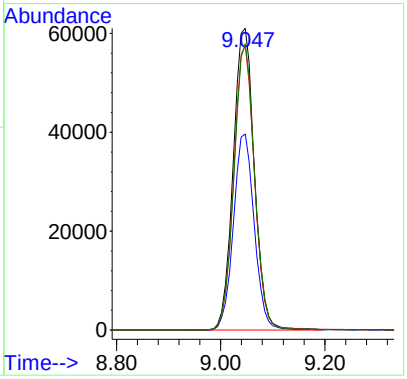


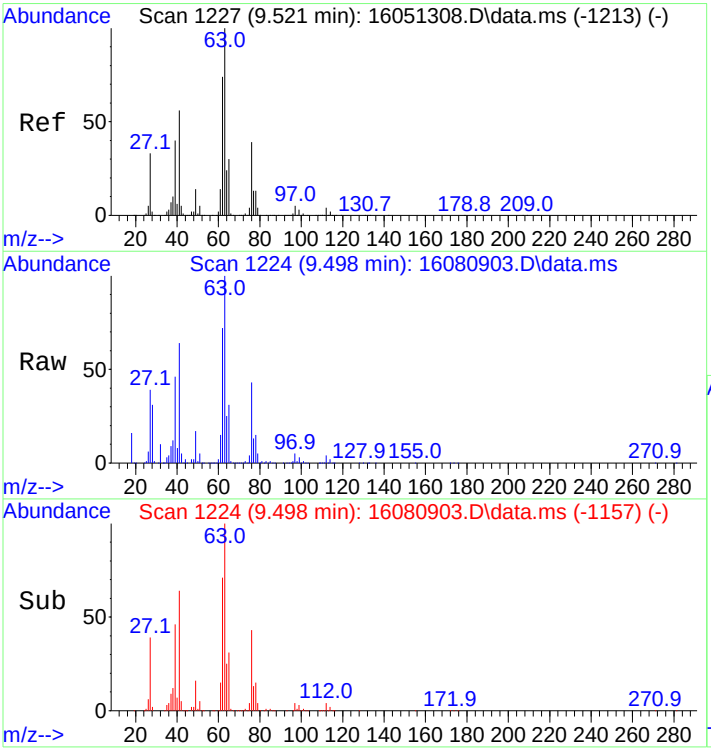


#25
Trichloroethene
Concen: 274.72 ng
RT: 9.047 min Scan# 1164
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 95 Resp: 172767

Ion	Ratio	Lower	Upper
95	100		
97	63.7	51.8	77.8
130	92.0	81.9	122.9
132	92.3	81.2	121.8

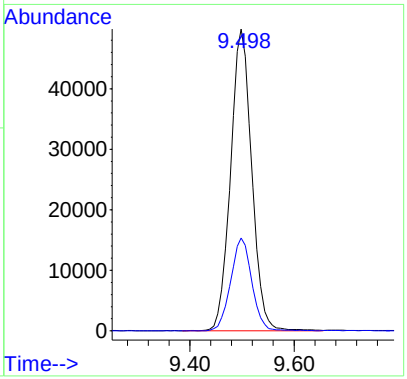


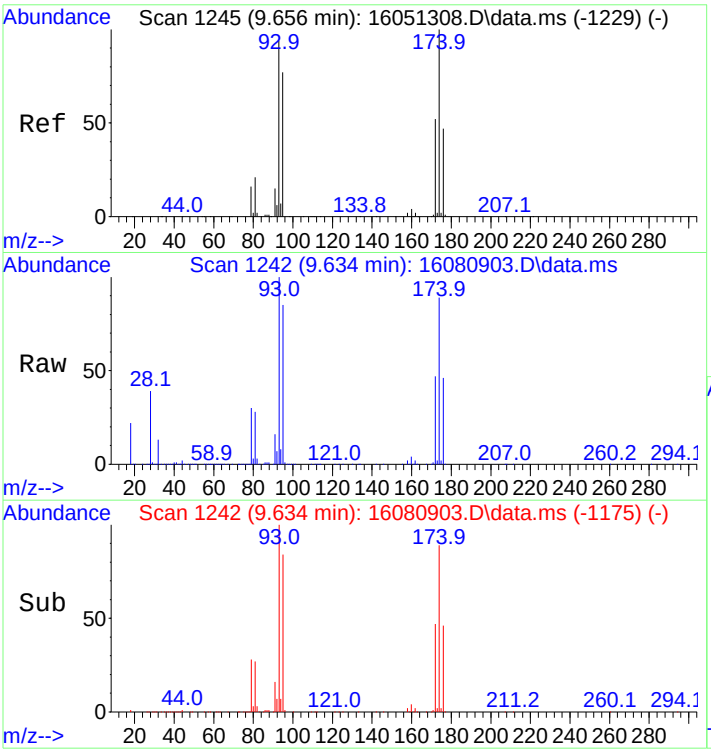


#26
1,2-Dichloropropane
Concen: 218.58 ng
RT: 9.498 min Scan# 1224
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 63 Resp: 140548

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.2	36.2

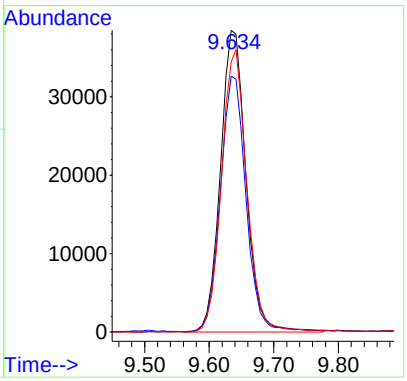


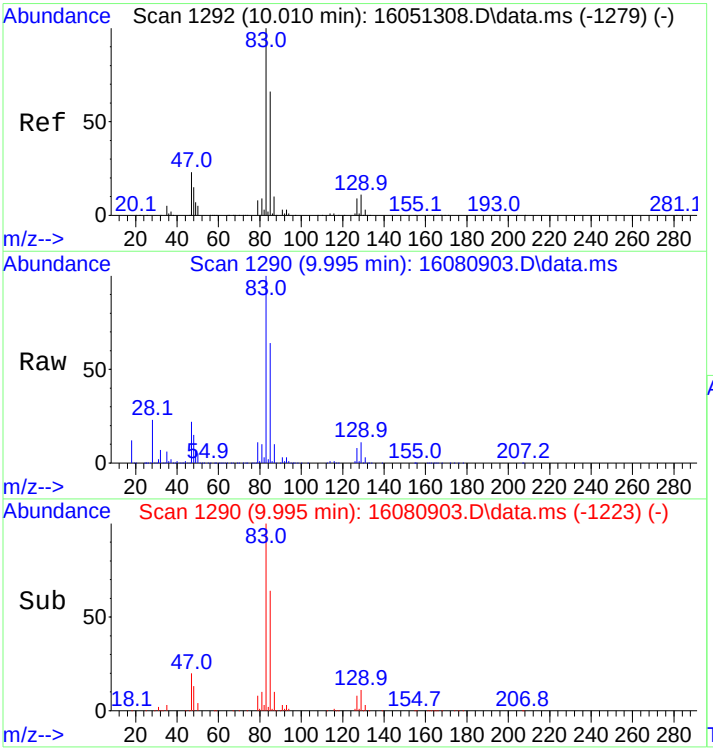


#27
Dibromomethane
Concen: 292.67 ng
RT: 9.634 min Scan# 1242
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 93 Resp: 105407

Ion	Ratio	Lower	Upper
93	100		
95	85.1	65.5	98.3
174	93.2	85.5	128.3

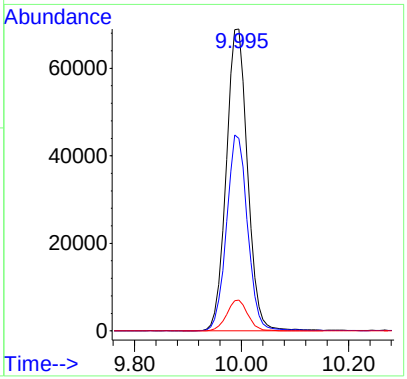


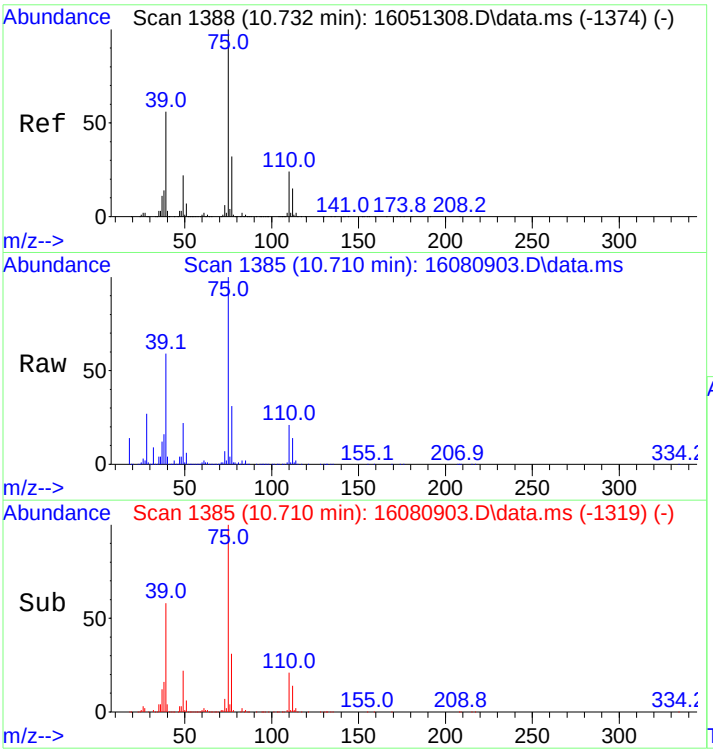


#28
Bromodichloromethane
Concen: 271.74 ng
RT: 9.995 min Scan# 1290
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 190252

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
87	10.1	8.3	12.5

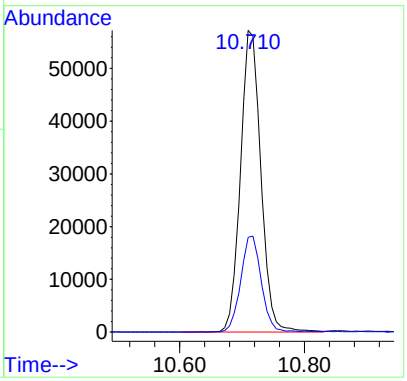


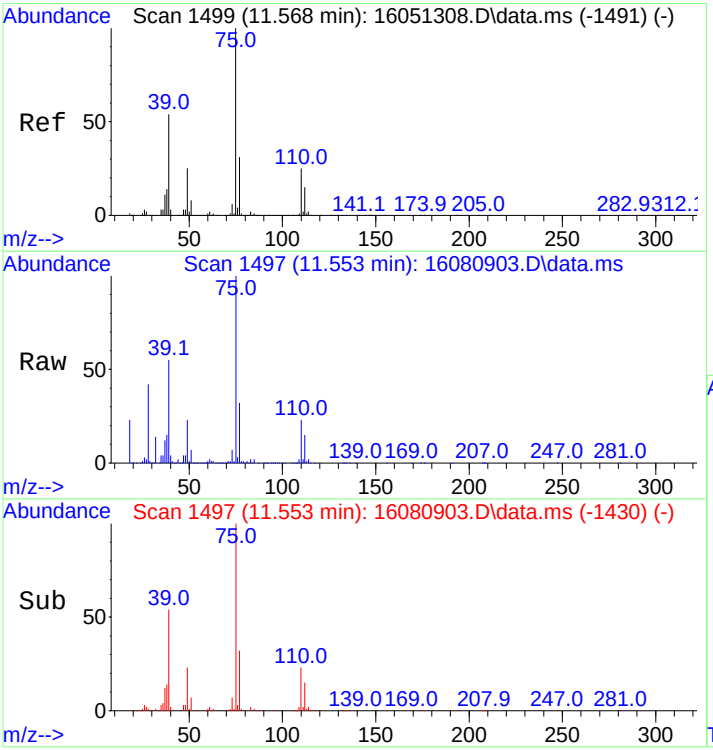


#29
cis,1,3-Dichloropropene
Concen: 181.45 ng
RT: 10.710 min Scan# 1385
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 130148

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.6	38.4

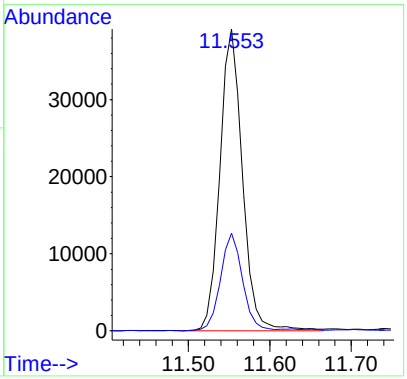


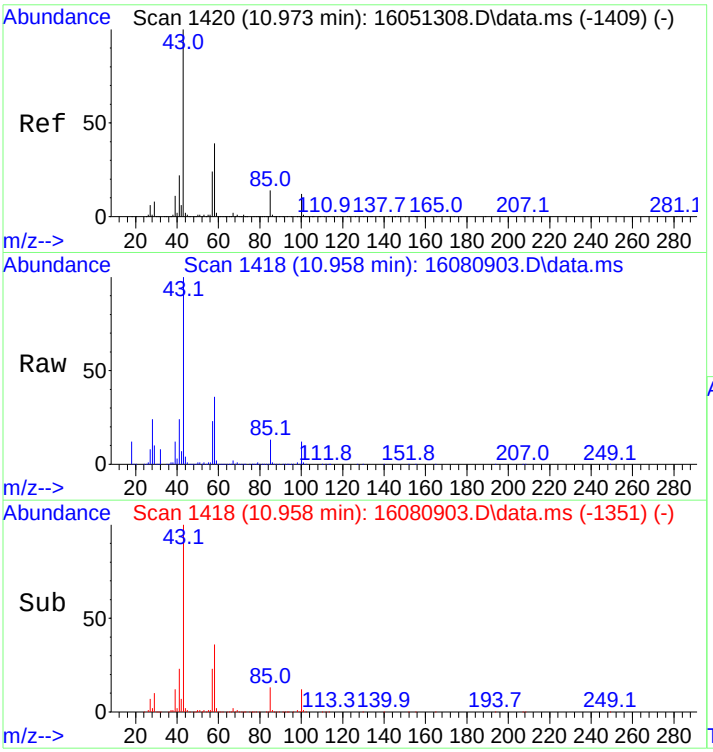


#30
trans,1,3-Dichloropropene
Concen: 155.19 ng
RT: 11.553 min Scan# 1497
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 75710

Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.0	39.0

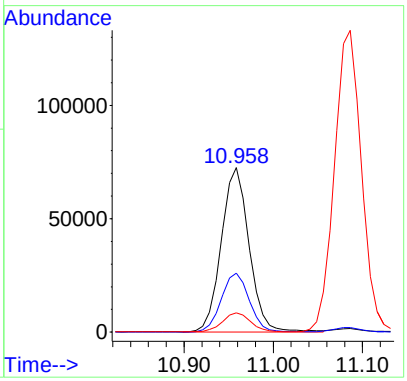


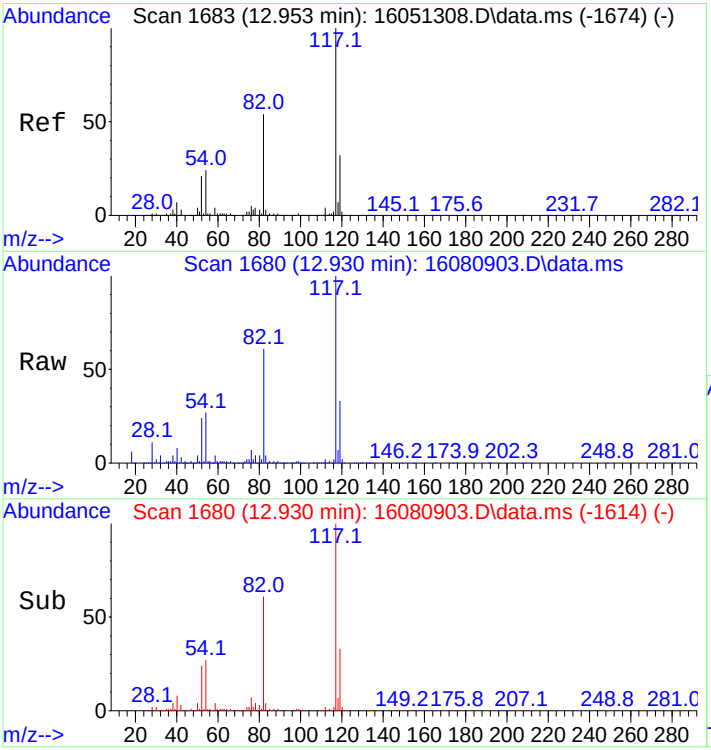


#31
4-Methyl-2-Pentanone
Concen: 165.96 ng
RT: 10.958 min Scan# 1418
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 157144

Ion	Ratio	Lower	Upper
43	100		
58	36.2	31.3	46.9
100	11.7	10.2	15.2

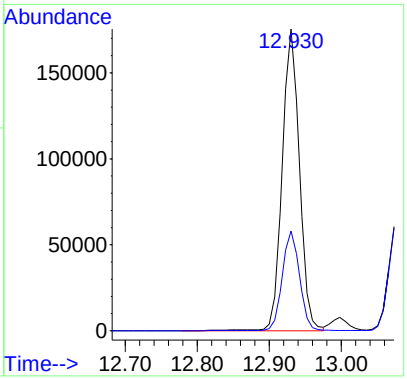


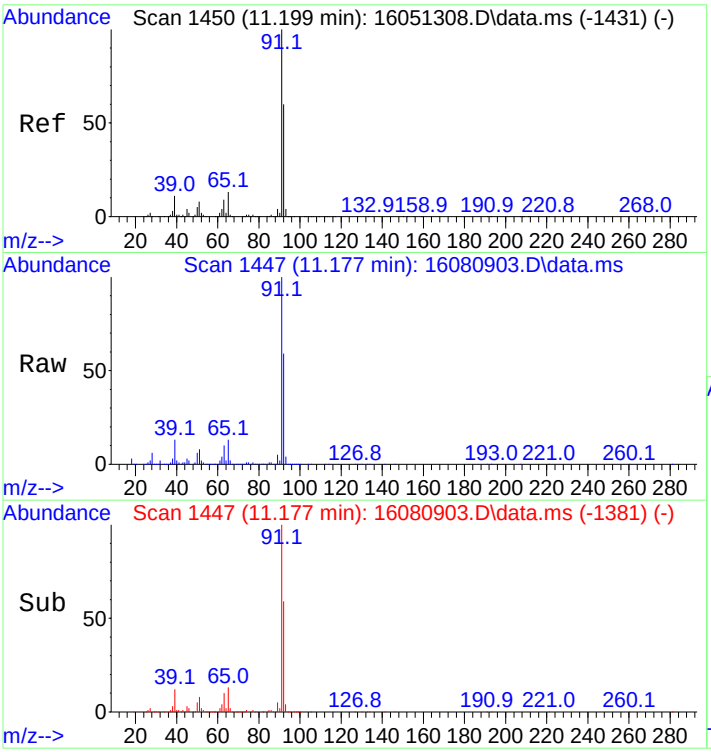


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:117 Resp: 292892

Ion	Ratio	Lower	Upper
117	100		
119	33.2	25.8	38.8

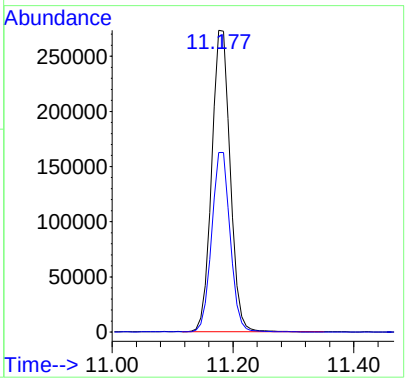


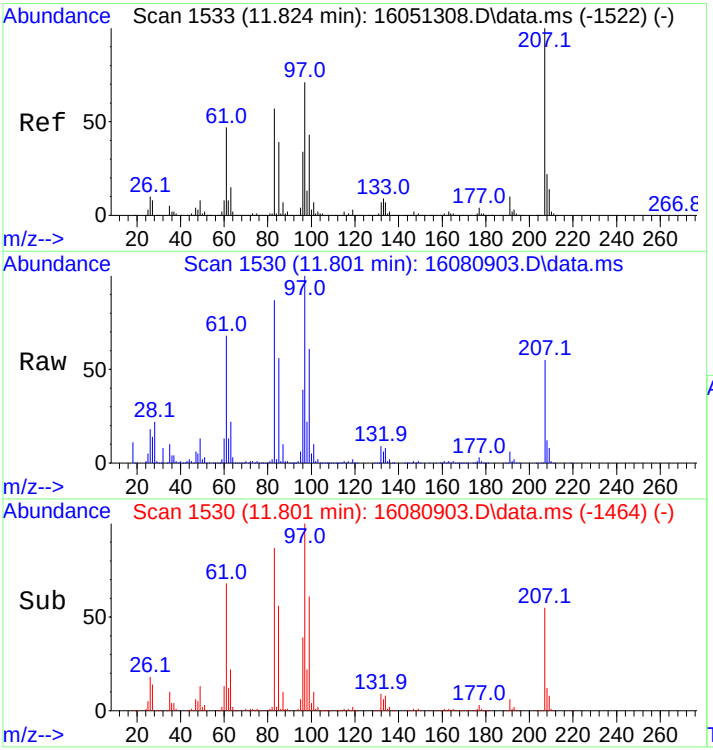


#33
Toluene
Concen: 199.74 ng
RT: 11.177 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 580260

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.6	73.0

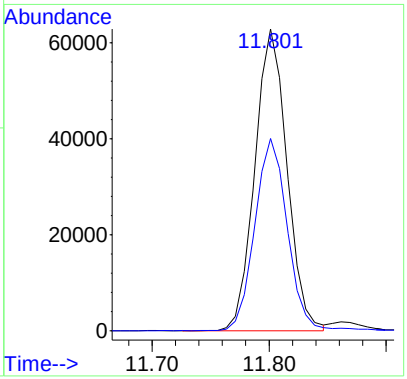


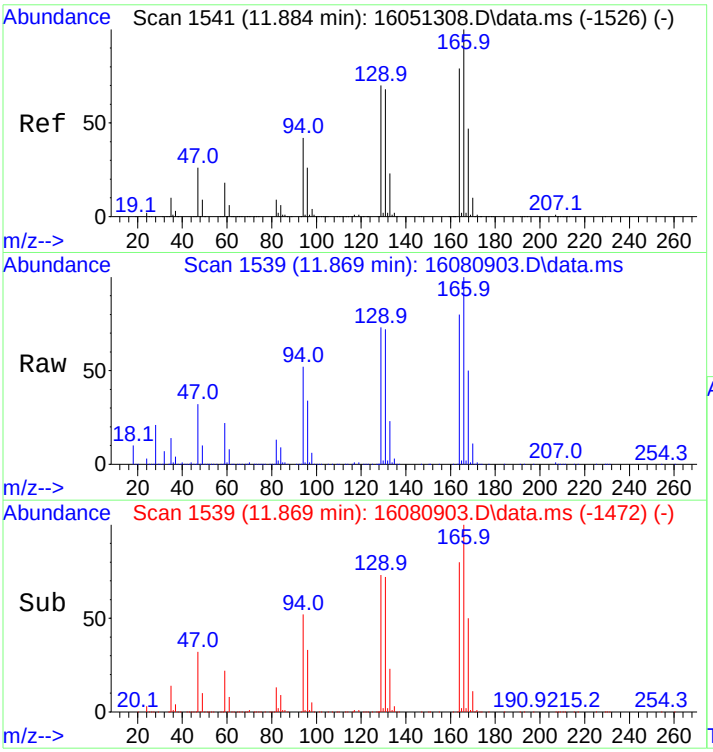


#34
1,1,2-Trichloroethane
Concen: 239.11 ng
RT: 11.801 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 120049

Ion	Ratio	Lower	Upper
83	100		
85	64.8	54.7	82.1

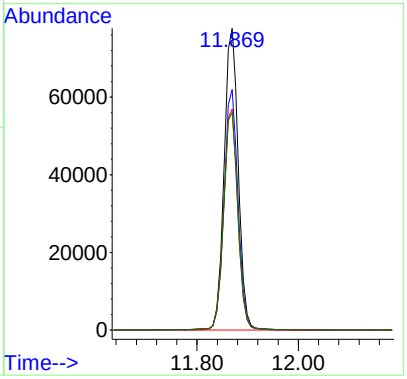


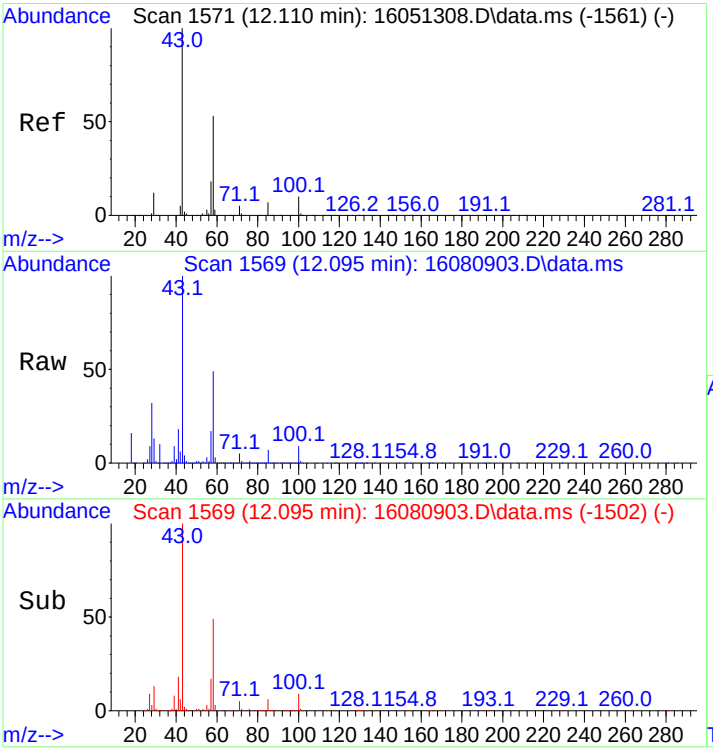


#35
Tetrachloroethene
Concen: 200.56 ng
RT: 11.869 min Scan# 1539
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:166 Resp: 152594

Ion	Ratio	Lower	Upper
166	100		
164	79.0	63.2	94.8
129	72.8	55.5	83.3
131	73.0	55.2	82.8

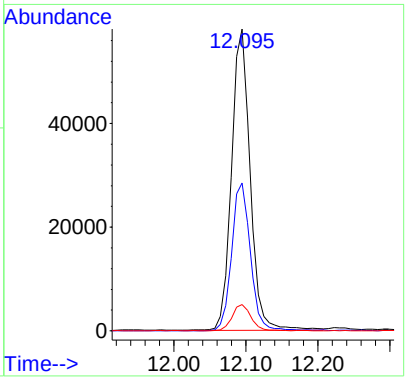


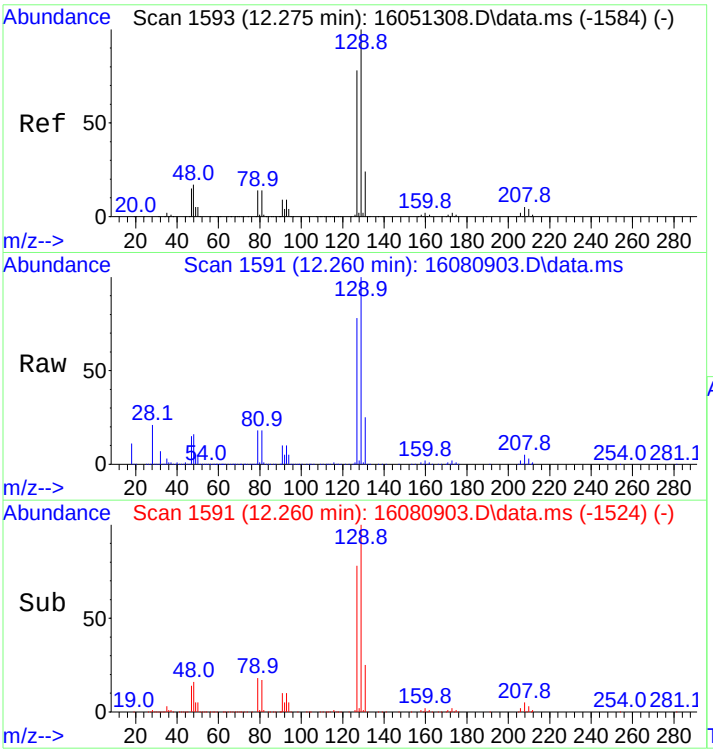


#36
2-Hexanone
Concen: 140.00 ng
RT: 12.095 min Scan# 1569
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 104342

Ion	Ratio	Lower	Upper
43	100		
58	49.5	43.6	65.4
100	8.9	7.8	11.8

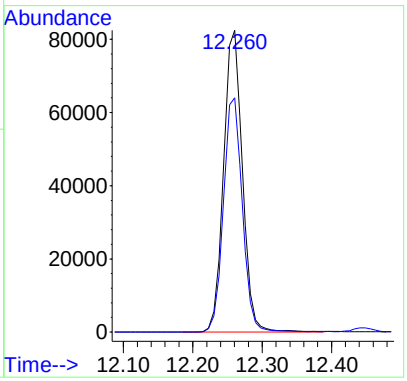


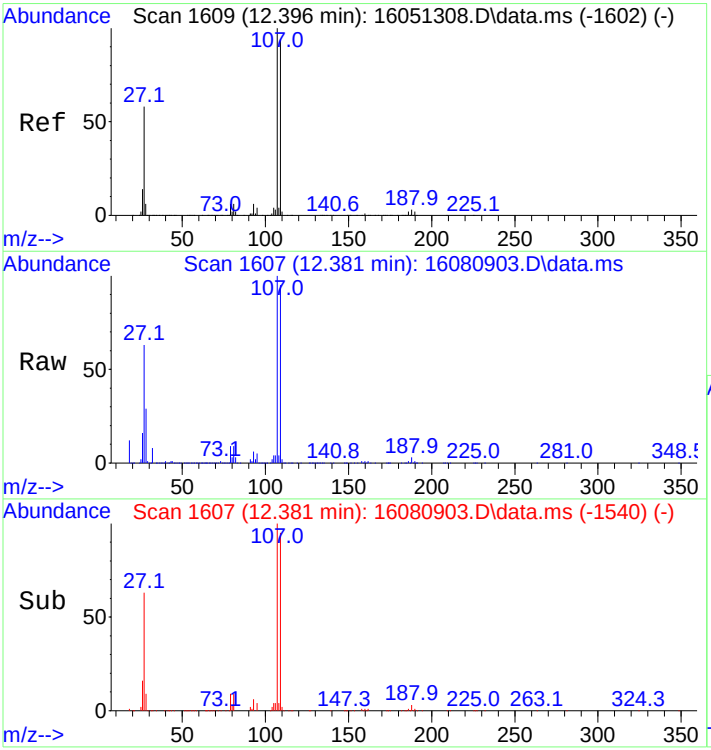


#37
Chlorodibromomethane
Concen: 228.13 ng
RT: 12.260 min Scan# 1591
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:129 Resp: 155347

Ion	Ratio	Lower	Upper
129	100		
127	78.1	62.3	93.5

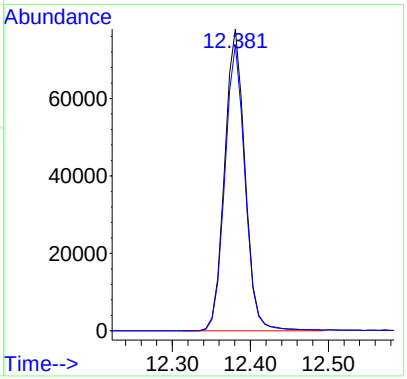


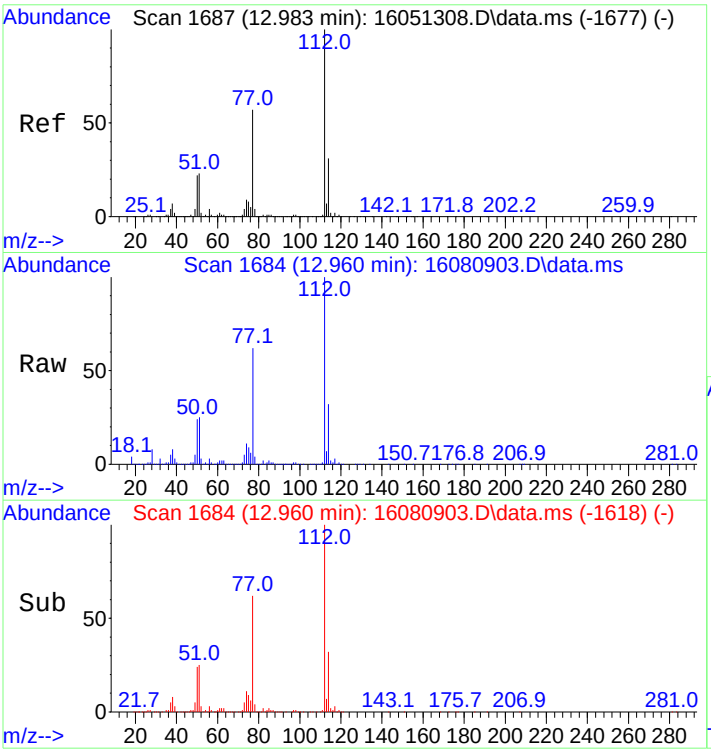


#38
Ethylene Dibromide
Concen: 228.06 ng
RT: 12.381 min Scan# 1607
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:107 Resp: 141758

Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.3	111.5

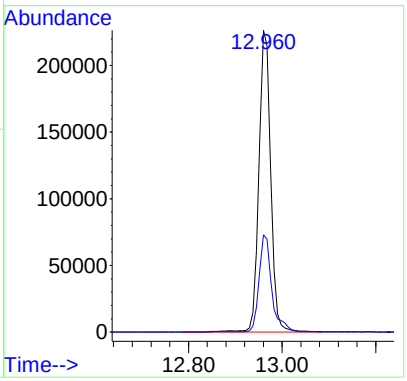


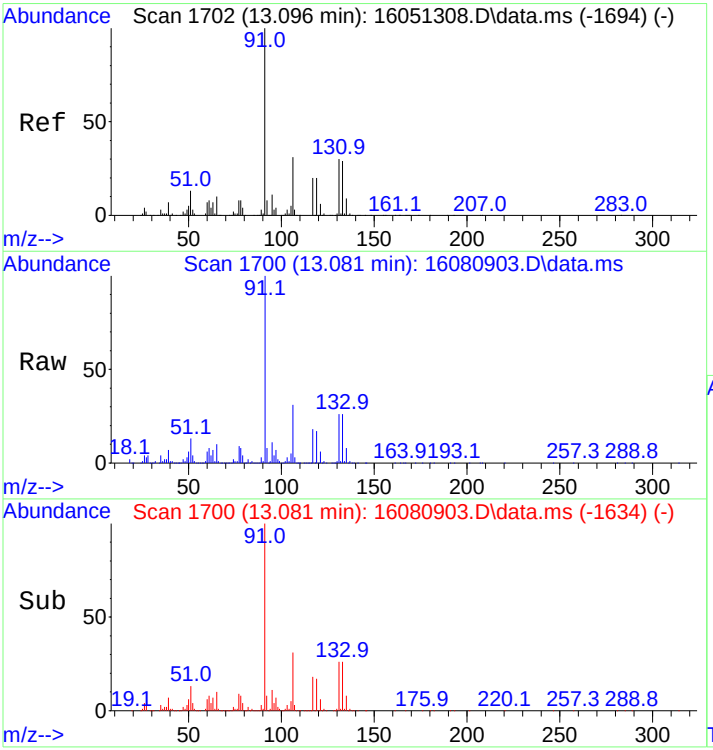


#39
Chlorobenzene
Concen: 222.92 ng
RT: 12.960 min Scan# 1684
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:112 Resp: 397944

Ion	Ratio	Lower	Upper
112	100		
114	34.7	27.5	41.3

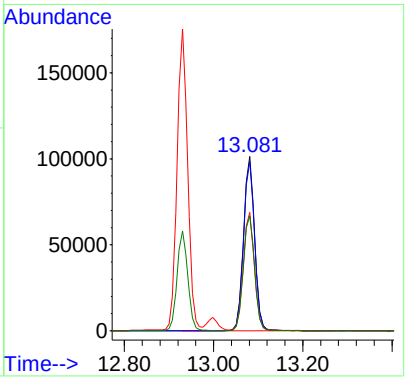


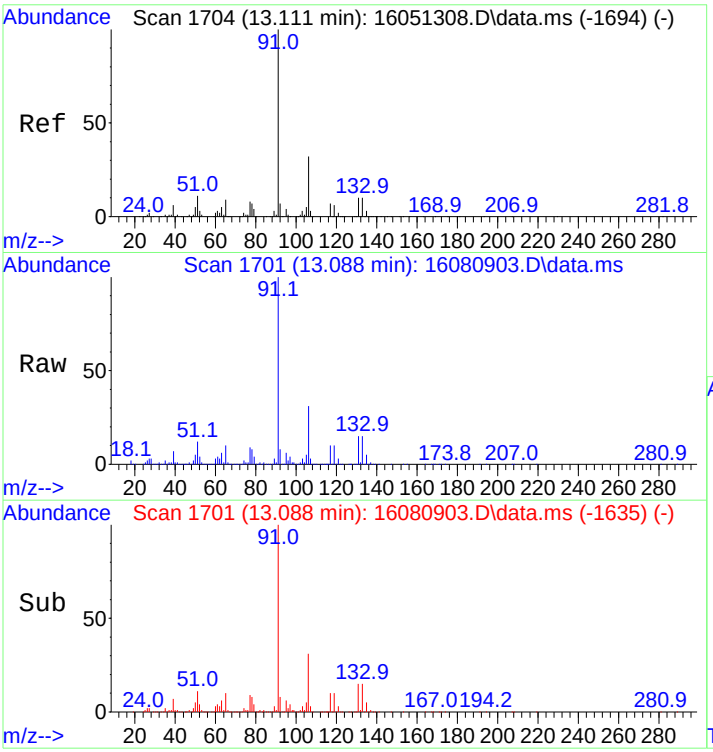


#40
1,1,1,2-Tetrachloroethane
Concen: 275.75 ng
RT: 13.081 min Scan# 1700
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:131 Resp: 174706

Ion	Ratio	Lower	Upper
131	100		
133	96.4	77.8	116.6
117	67.5	57.1	85.7
119	67.2	54.3	81.5

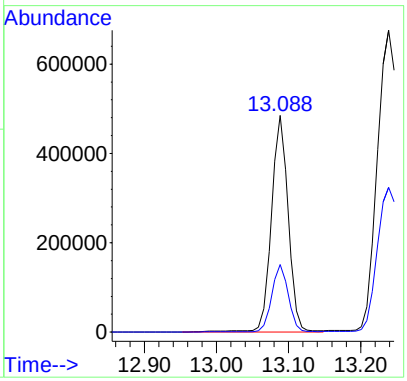


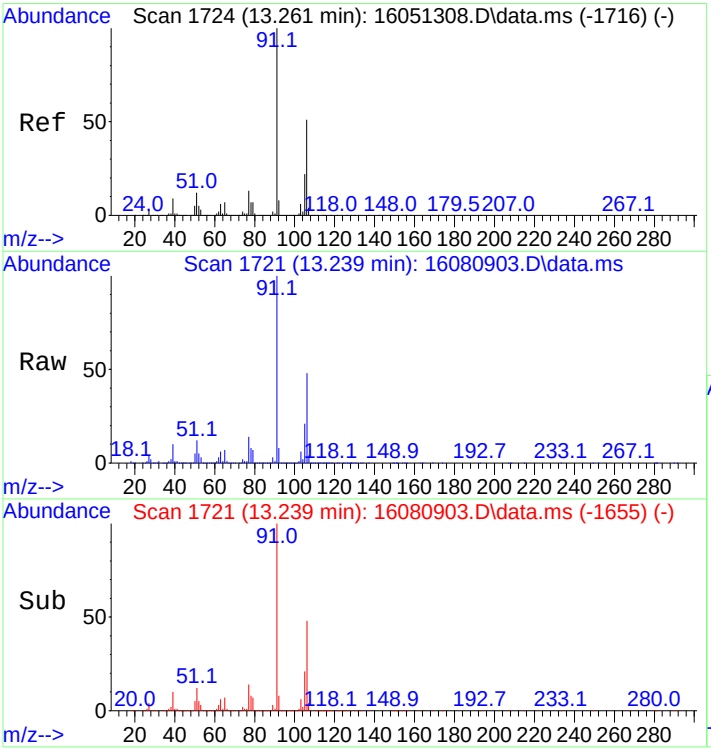


#41
Ethylbenzene
Concen: 238.08 ng
RT: 13.088 min Scan# 1701
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 785753

Ion	Ratio	Lower	Upper
91	100		
106	30.6	25.5	38.3

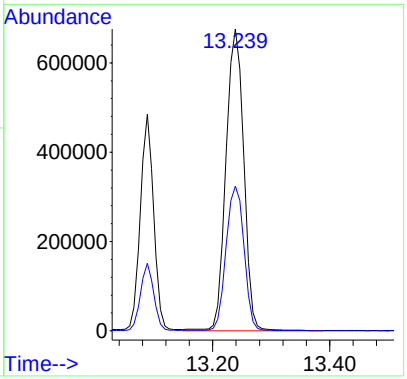


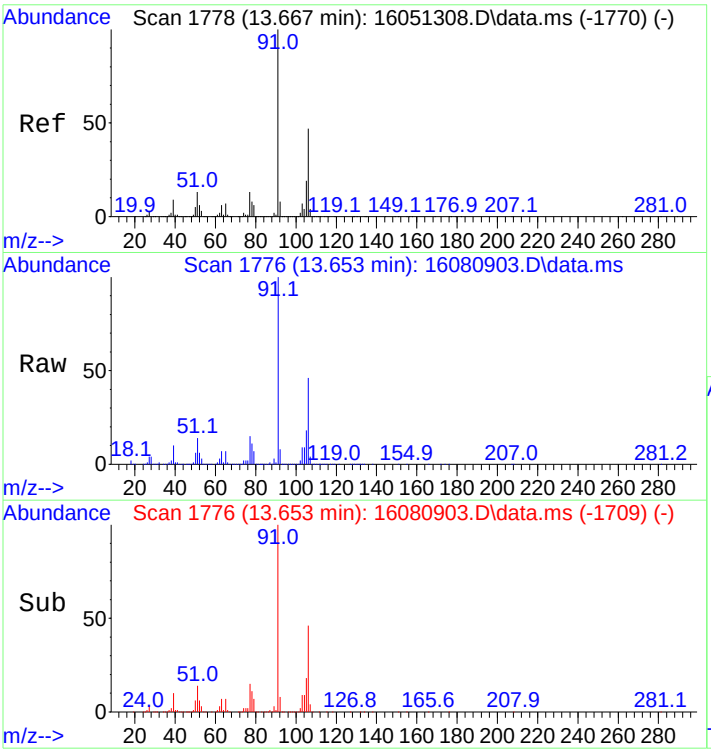


#42
M&P-Xylene
Concen: 509.31 ng
RT: 13.239 min Scan# 1721
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 1429442

Ion	Ratio	Lower	Upper
91	100		
106	48.6	40.4	60.6

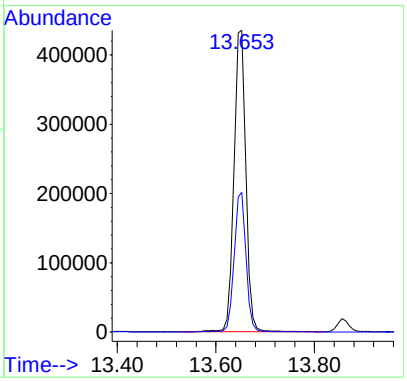


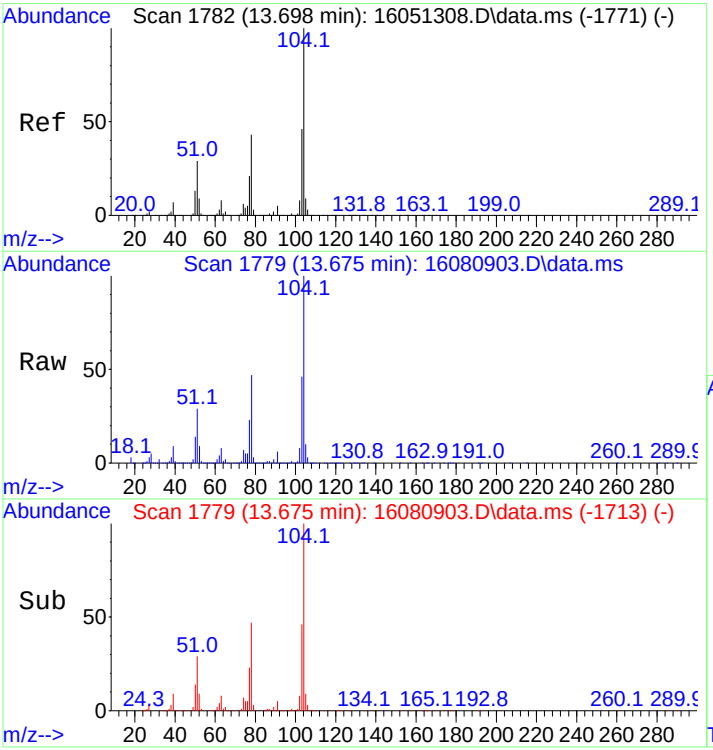


#43
O-Xylene
Concen: 249.52 ng
RT: 13.653 min Scan# 1776
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 725937

Ion	Ratio	Lower	Upper
91	100		
106	46.3	38.2	57.2

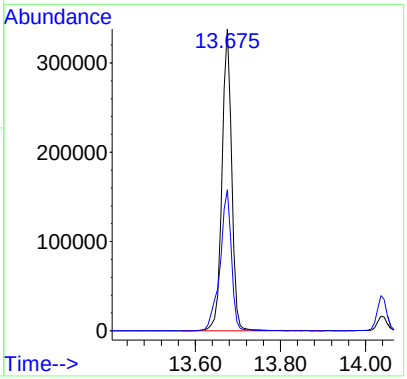


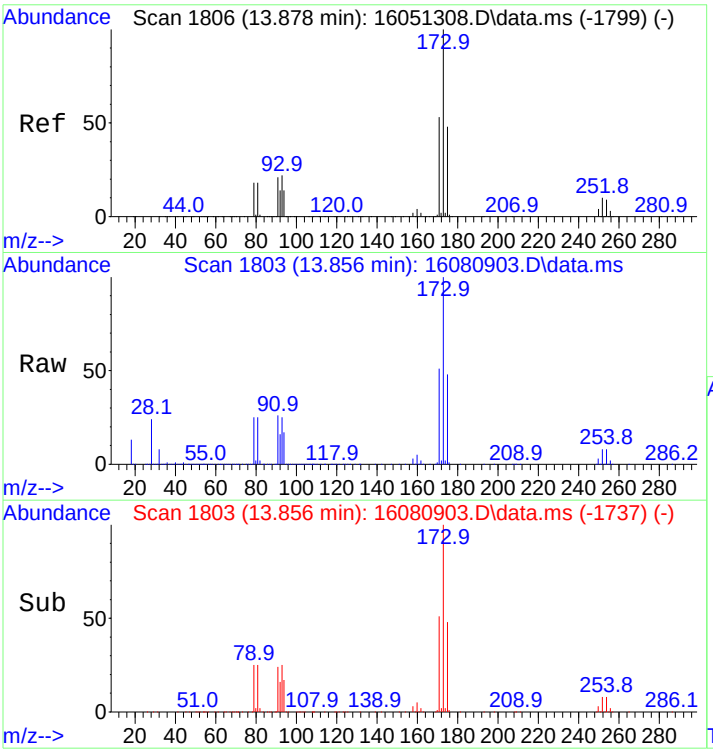


#44
Styrene
Concen: 215.85 ng
RT: 13.675 min Scan# 1779
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:104 Resp: 536046

Ion	Ratio	Lower	Upper
104	100		
78	54.9	39.8	59.6

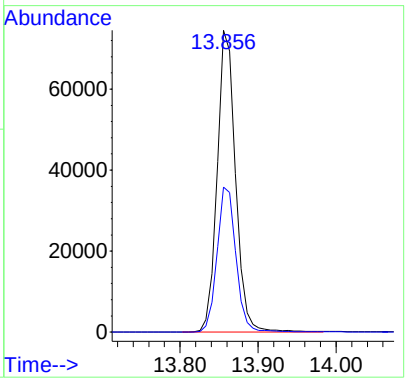


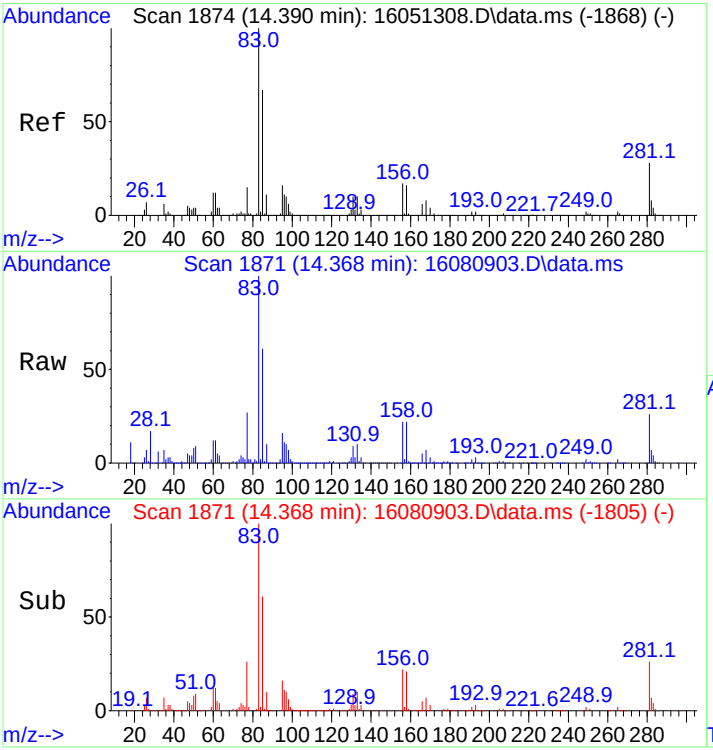


#45
Bromoform
Concen: 227.58 ng
RT: 13.856 min Scan# 1803
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:173 Resp: 122141

Ion	Ratio	Lower	Upper
173	100		
175	49.3	38.5	57.7

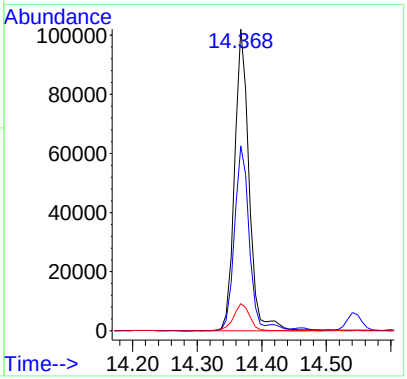


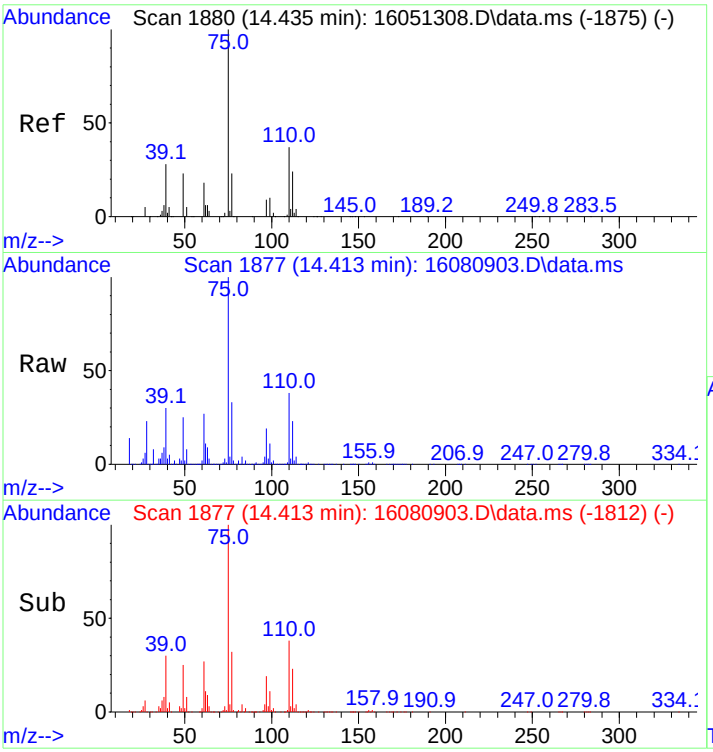


#46
1,1,2,2-Tetrachloroethane
Concen: 188.83 ng
RT: 14.368 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 160161

Ion	Ratio	Lower	Upper
83	100		
85	62.5	53.1	79.7
131	10.1	8.9	13.3

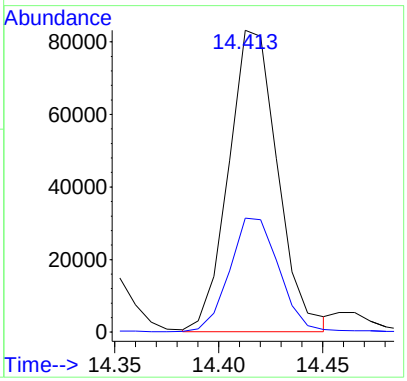


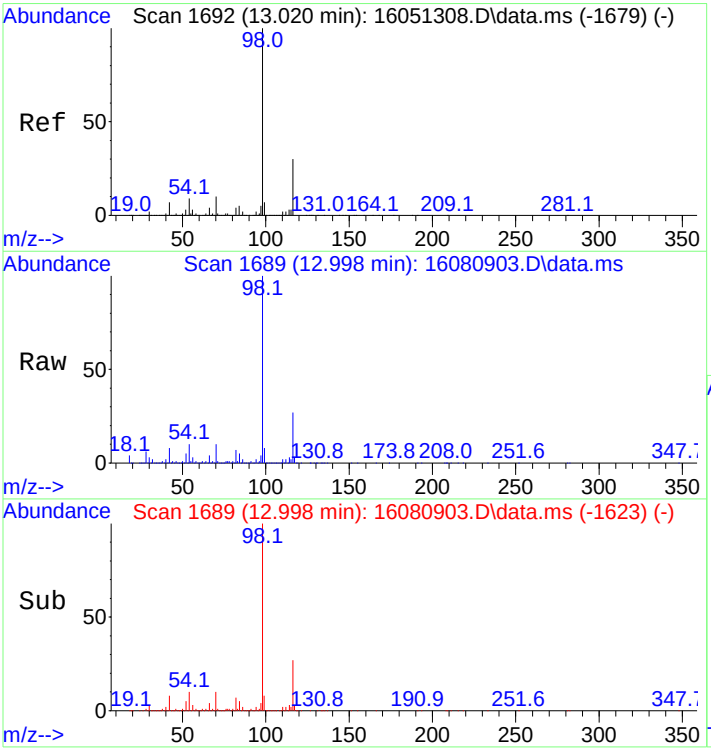


#47
1,2,3-Trichloropropane
Concen: 195.66 ng
RT: 14.413 min Scan# 1877
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 137088

Ion	Ratio	Lower	Upper
75	100		
110	38.6	30.5	45.7

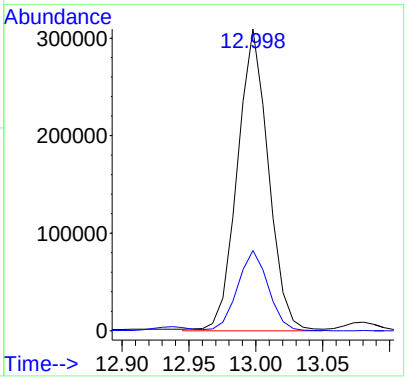


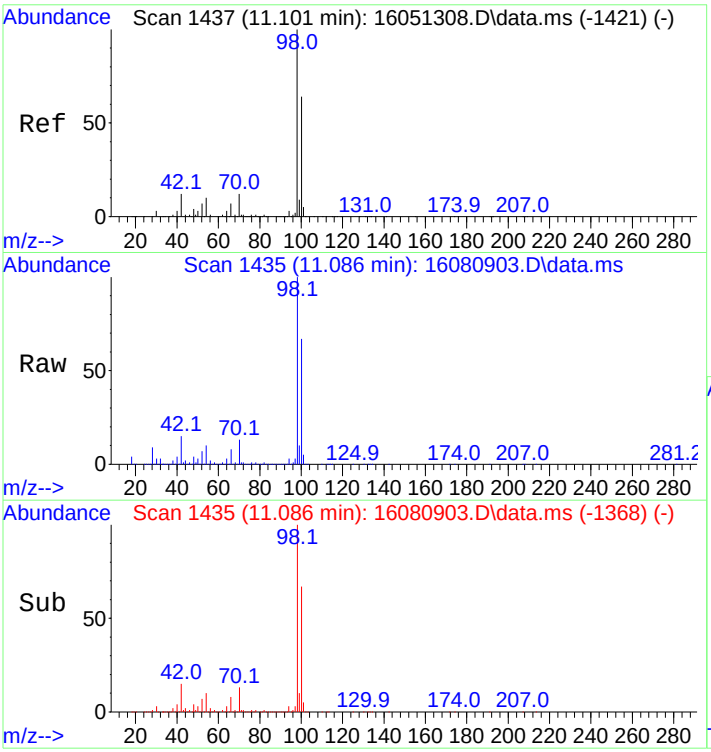


#48
d10-Ethylbenzene(SPK)
Concen: 248.68 ng
RT: 12.998 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 98 Resp: 500650

Ion	Ratio	Lower	Upper
98	100		
116	26.4	23.4	35.0

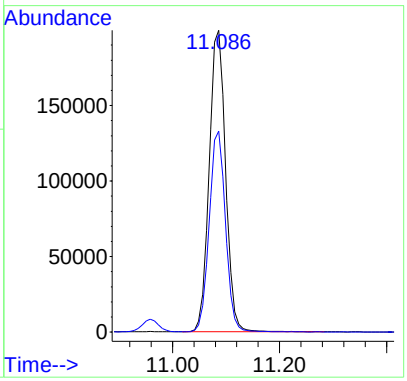


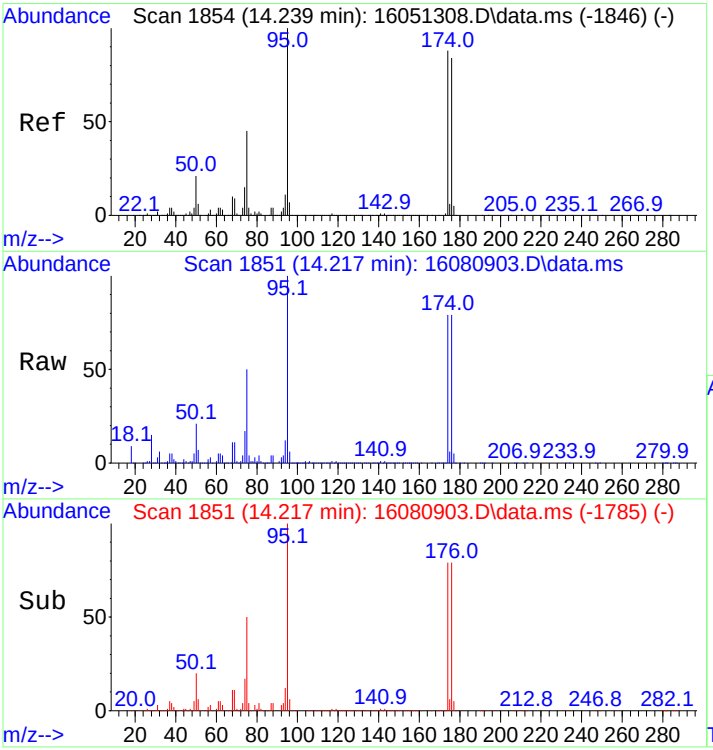


#49
d8-Toluene(SURR)
Concen: 244.13 ng
RT: 11.086 min Scan# 1435
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 98 Resp: 423609

Ion	Ratio	Lower	Upper
98	100		
100	66.3	56.0	84.0

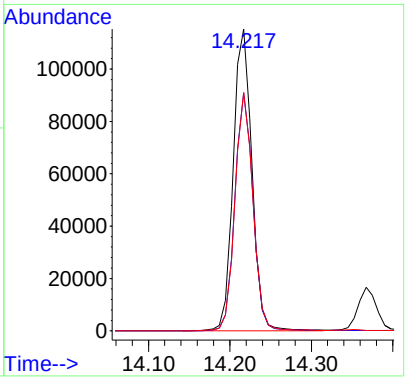


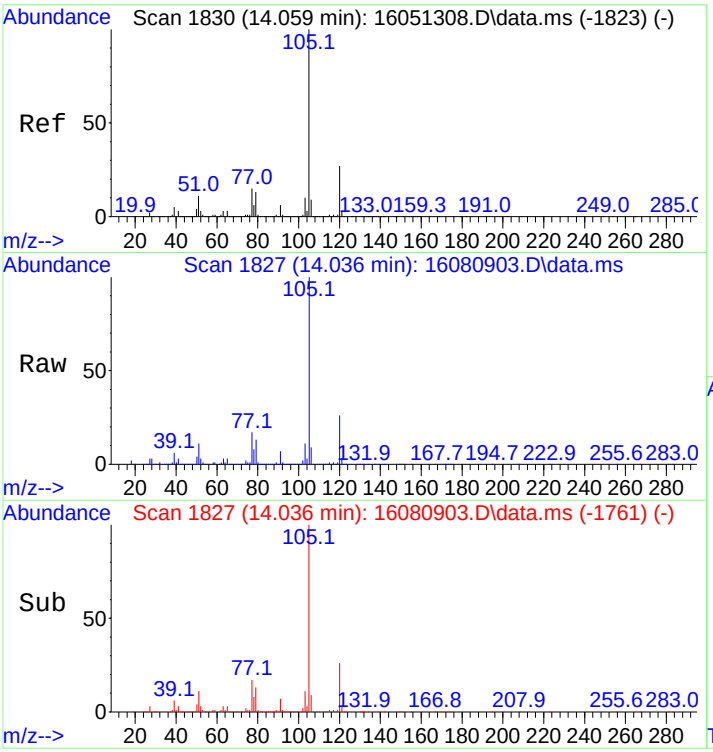


#50
4-Bromofluorobenzene(SURR)
Concen: 318.67 ng
RT: 14.217 min Scan# 1851
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 95 Resp: 183840

Ion	Ratio	Lower	Upper
95	100		
174	76.4	67.8	101.8
176	76.2	64.8	97.2

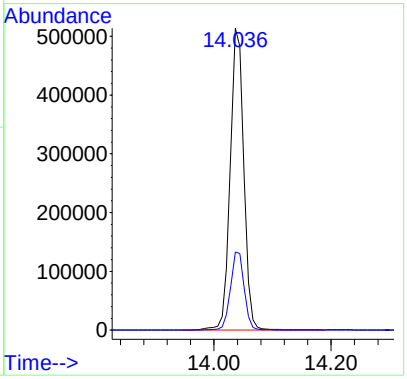


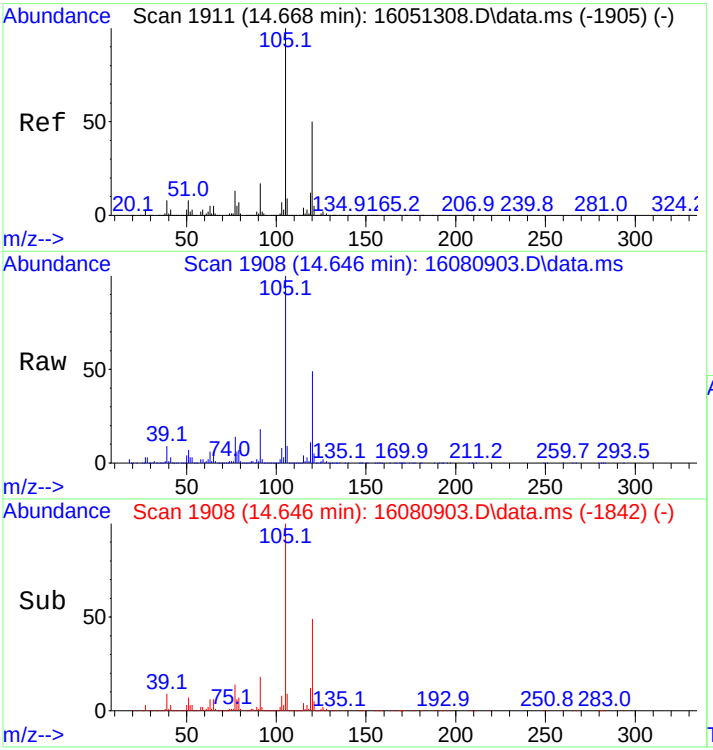


#51
Isopropylbenzene
Concen: 243.36 ng
RT: 14.036 min Scan# 1827
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 822870

Ion	Ratio	Lower	Upper
105	100		
120	26.3	21.4	32.2

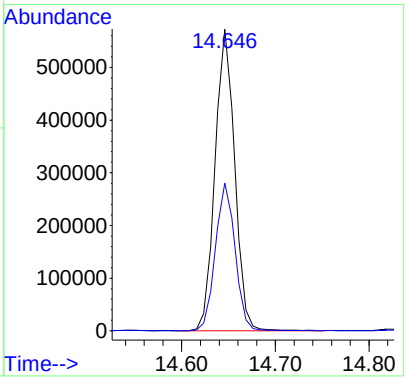


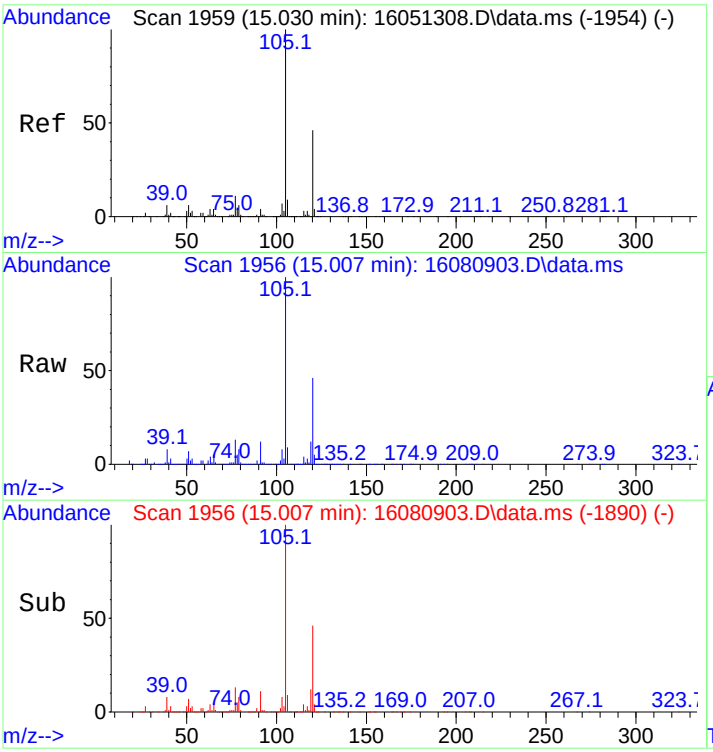


#52
1,3,5-Trimethylbenzene
Concen: 253.27 ng
RT: 14.646 min Scan# 1908
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 834582

Ion	Ratio	Lower	Upper
105	100		
120	49.1	39.9	59.9

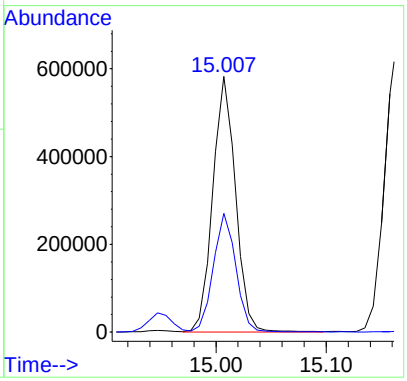


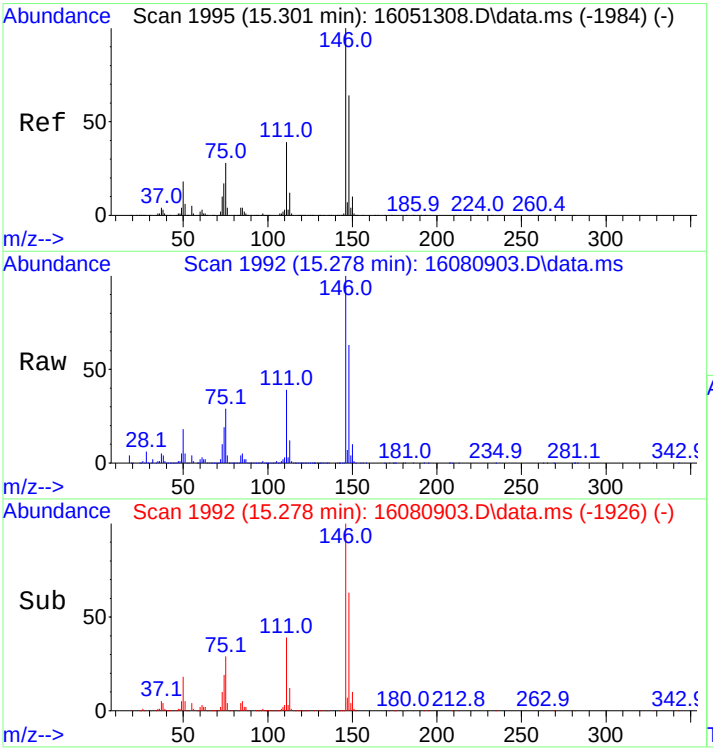


#53
1,2,4-Trimethylbenzene
Concen: 256.64 ng
RT: 15.007 min Scan# 1956
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 835037

Ion	Ratio	Lower	Upper
105	100		
120	46.2	37.5	56.3

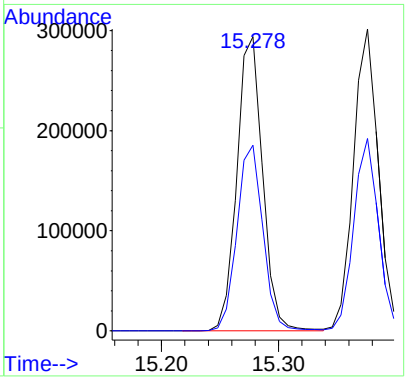


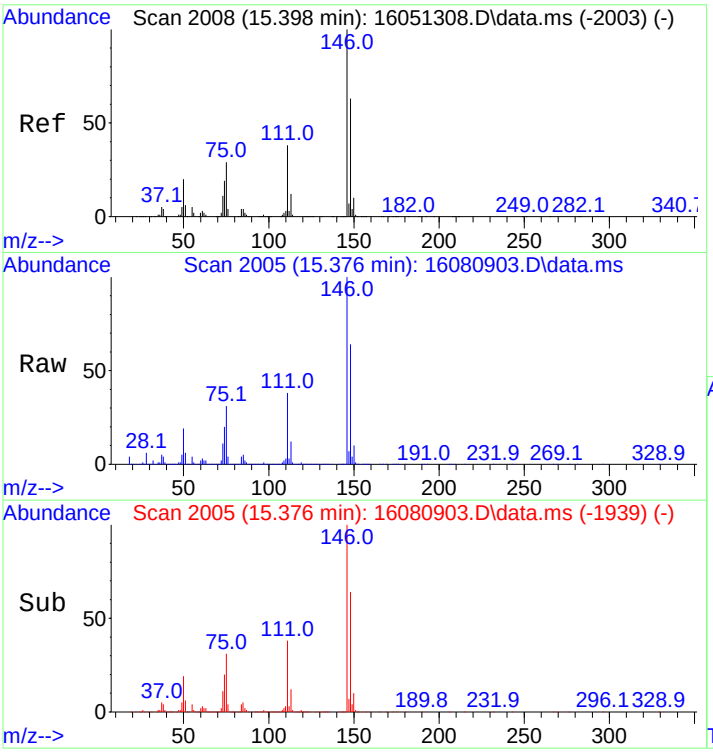


#54
1,3-Dichlorobenzene
Concen: 263.63 ng
RT: 15.278 min Scan# 1992
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:146 Resp: 447670

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.6	76.0

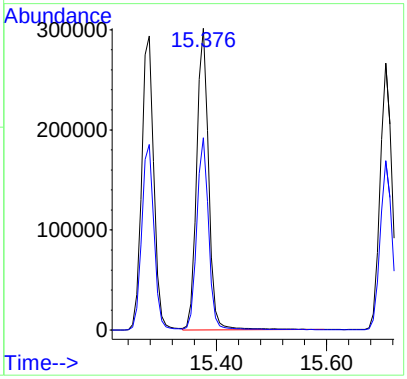


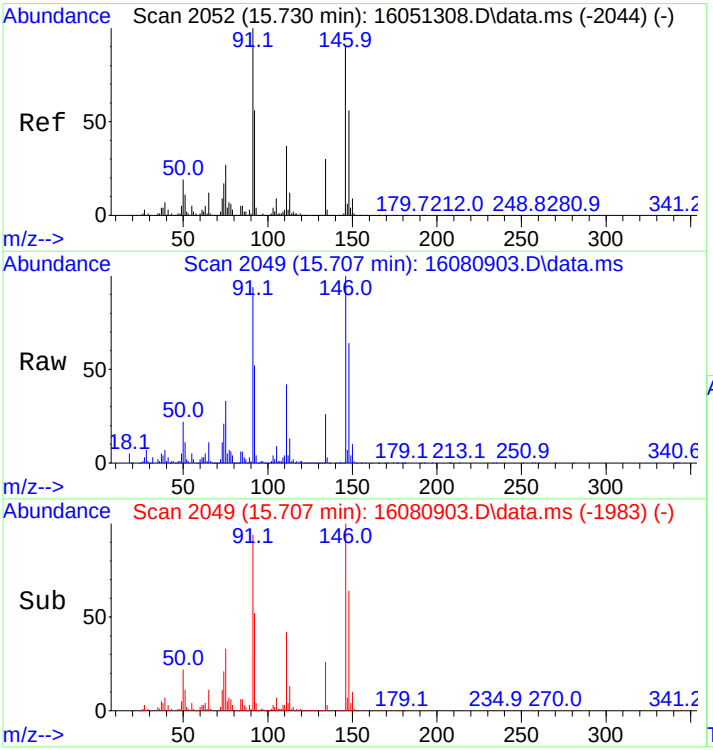


#55
1,4-Dichlorobenzene
Concen: 254.17 ng
RT: 15.376 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:146 Resp: 456207

Ion	Ratio	Lower	Upper
146	100		
148	62.7	49.9	74.9

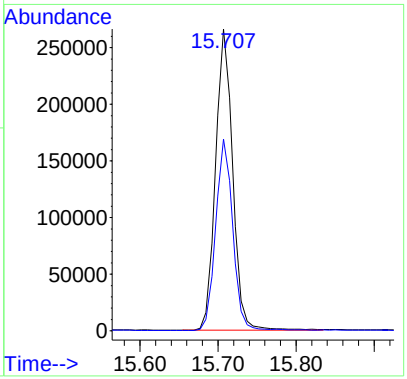


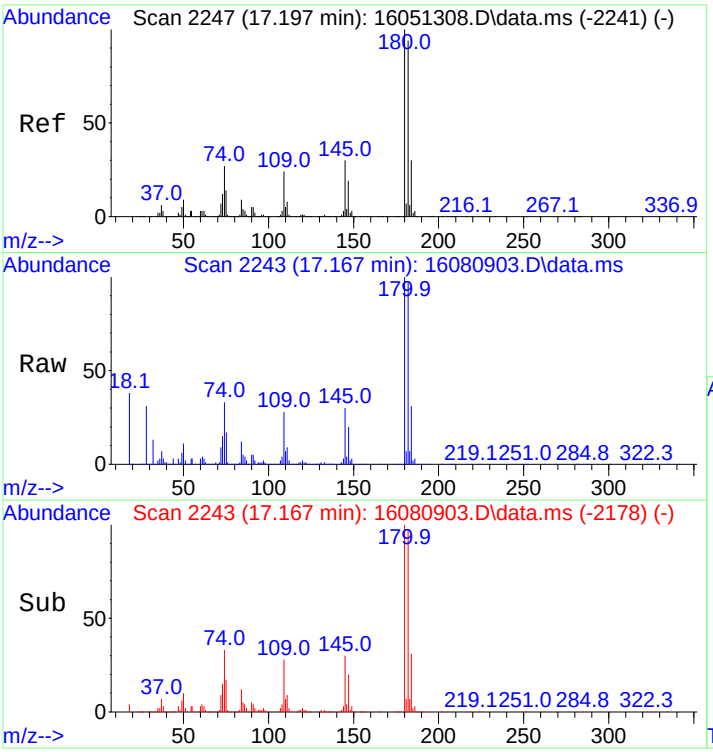


#56
1,2-Dichlorobenzene
Concen: 252.36 ng
RT: 15.707 min Scan# 2049
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:146 Resp: 405317

Ion	Ratio	Lower	Upper
146	100		
148	63.5	49.9	74.9

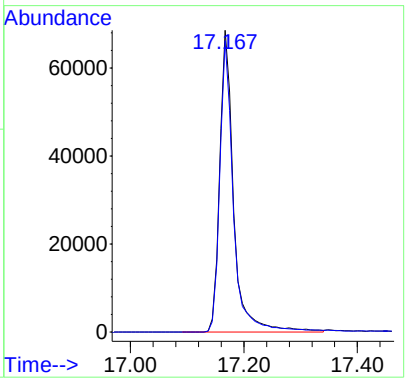


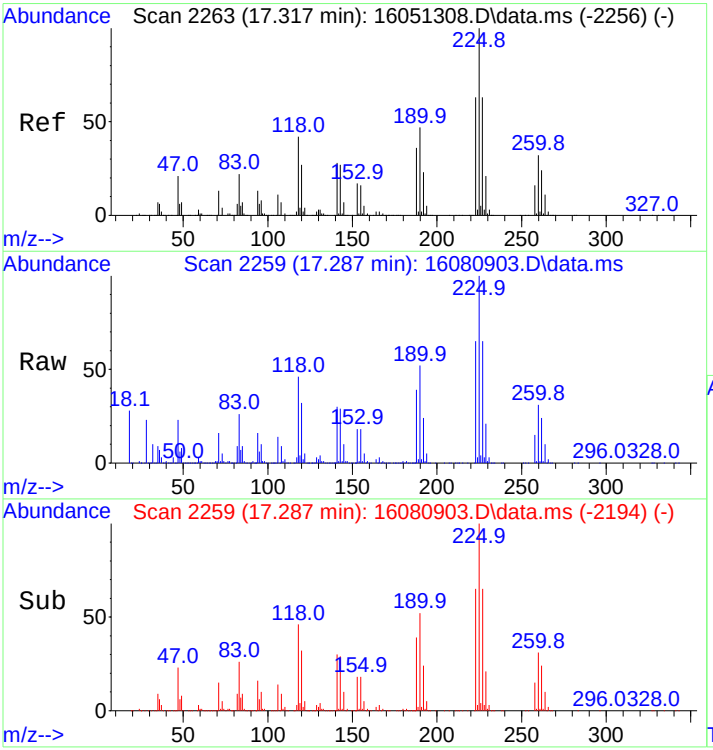


#57
1,2,4-Trichlorobenzene
Concen: 86.20 ng
RT: 17.167 min Scan# 2243
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:180 Resp: 117417

Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.0	112.4

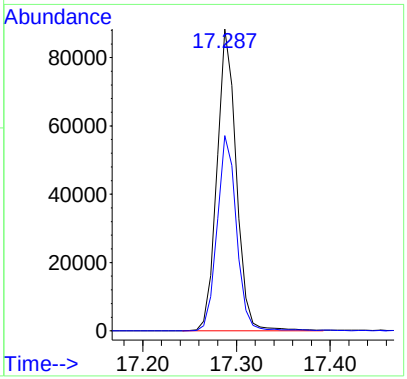


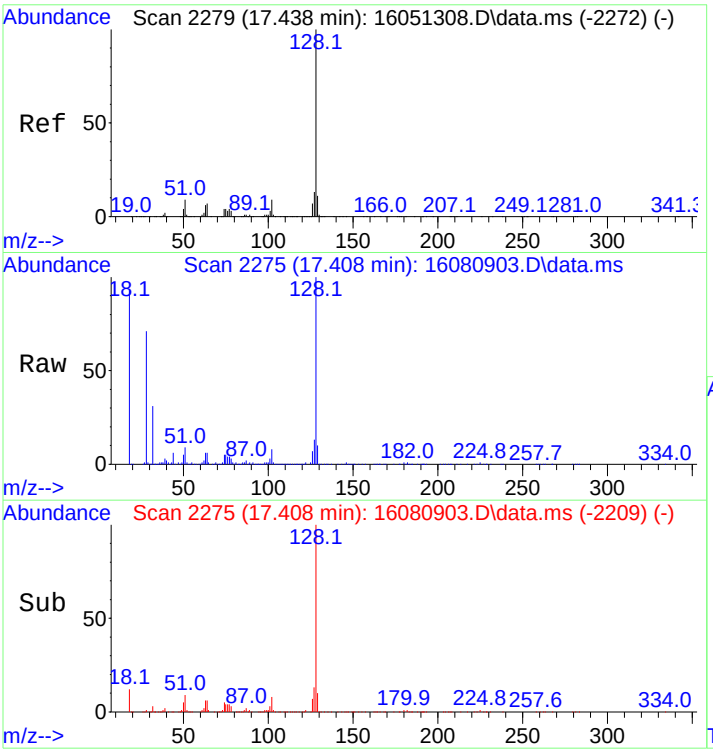


#58
Hexachlorobutadiene
Concen: 177.43 ng
RT: 17.287 min Scan# 2259
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:225 Resp: 127046

Ion	Ratio	Lower	Upper
225	100		
227	65.0	51.1	76.7

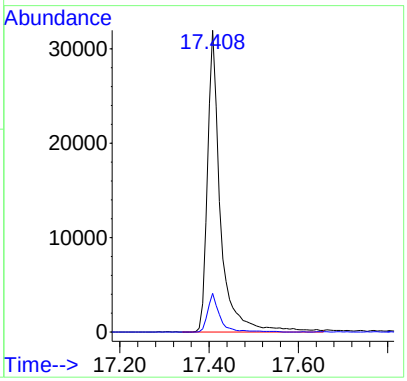


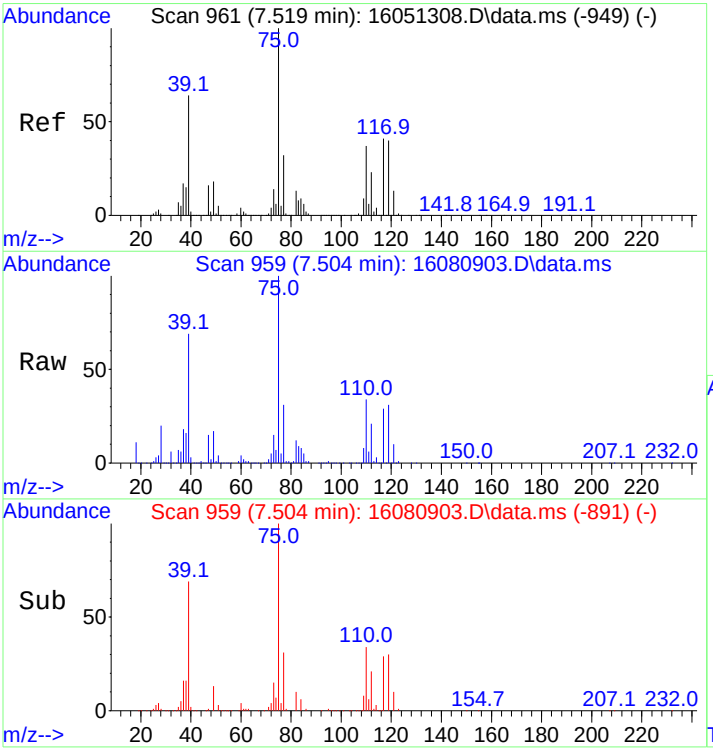


#59
Naphthalene
Concen: 19.33 ng
RT: 17.408 min Scan# 2275
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:128 Resp: 64620

Ion	Ratio	Lower	Upper
128	100		
127	11.7	9.8	14.8

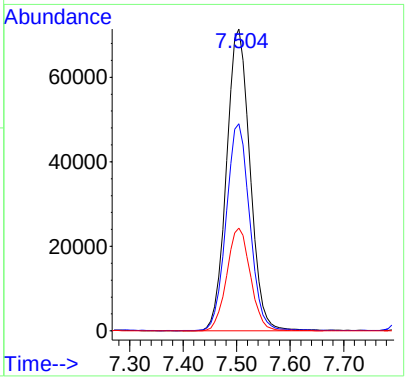


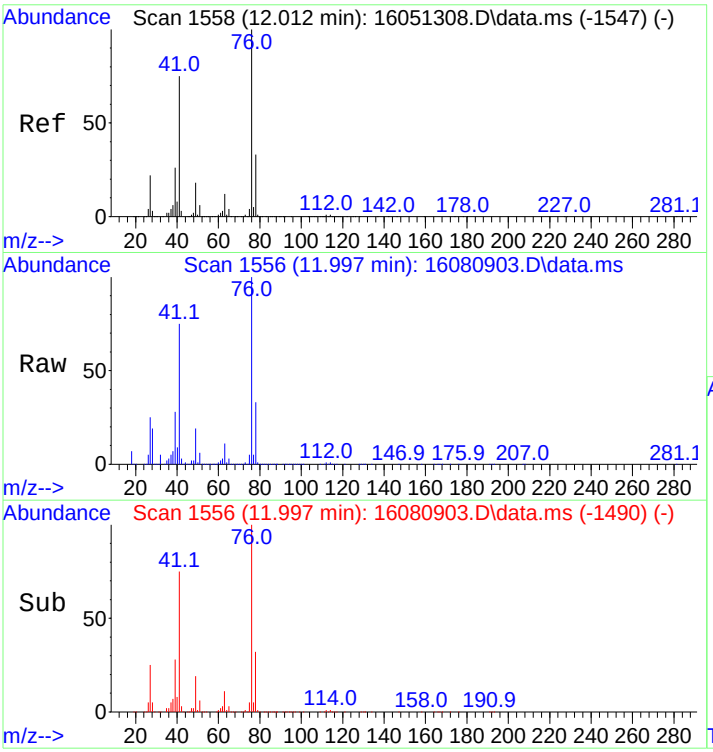


#60
1,1-Dichloropropene
Concen: 234.20 ng
RT: 7.504 min Scan# 959
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 218016

Ion	Ratio	Lower	Upper
75	100		
39	68.9	51.8	77.6
110	34.3	29.3	43.9

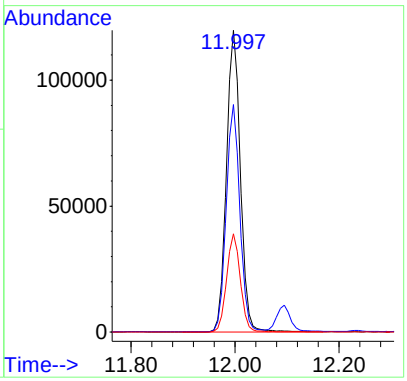


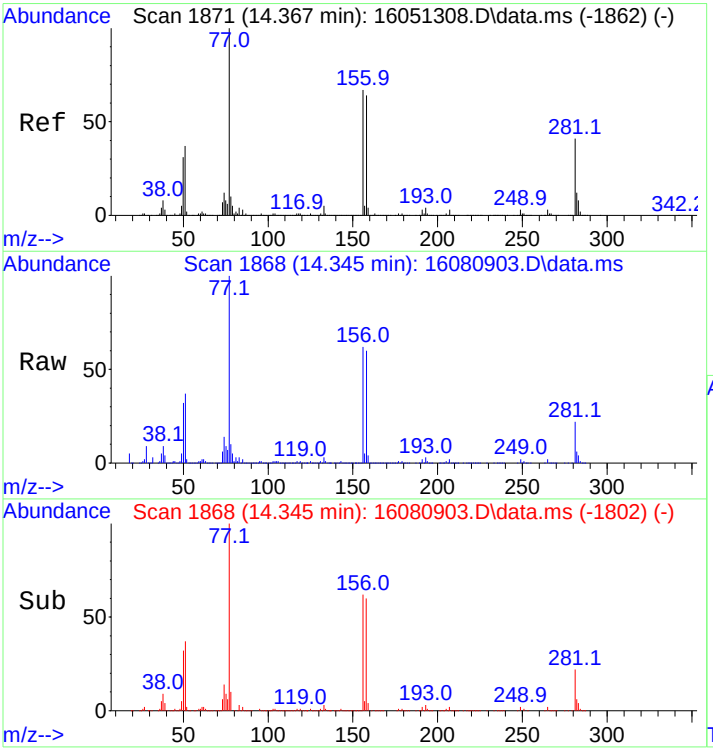


#61
1,3-Dichloropropane
Concen: 214.57 ng
RT: 11.997 min Scan# 1556
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 76 Resp: 222775

Ion	Ratio	Lower	Upper
76	100		
41	73.5	58.2	87.4
78	32.3	26.1	39.1

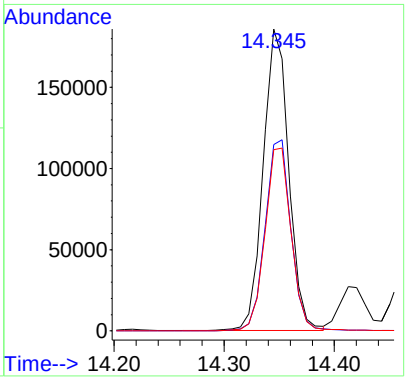


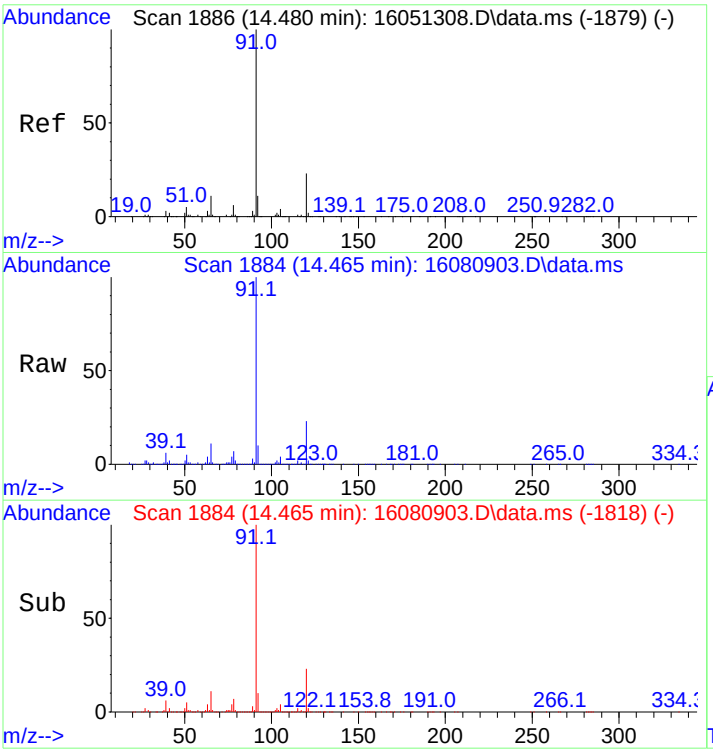


#62
Bromobenzene
Concen: 247.66 ng
RT: 14.345 min Scan# 1868
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 77 Resp: 298009

Ion	Ratio	Lower	Upper
77	100		
156	64.6	55.0	82.4
158	62.7	53.3	79.9

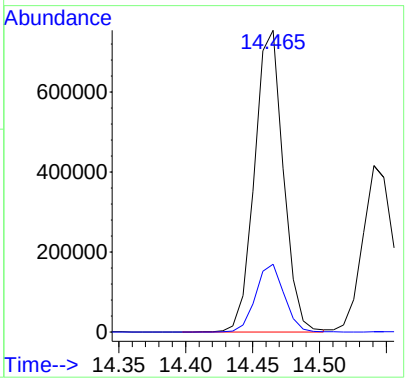


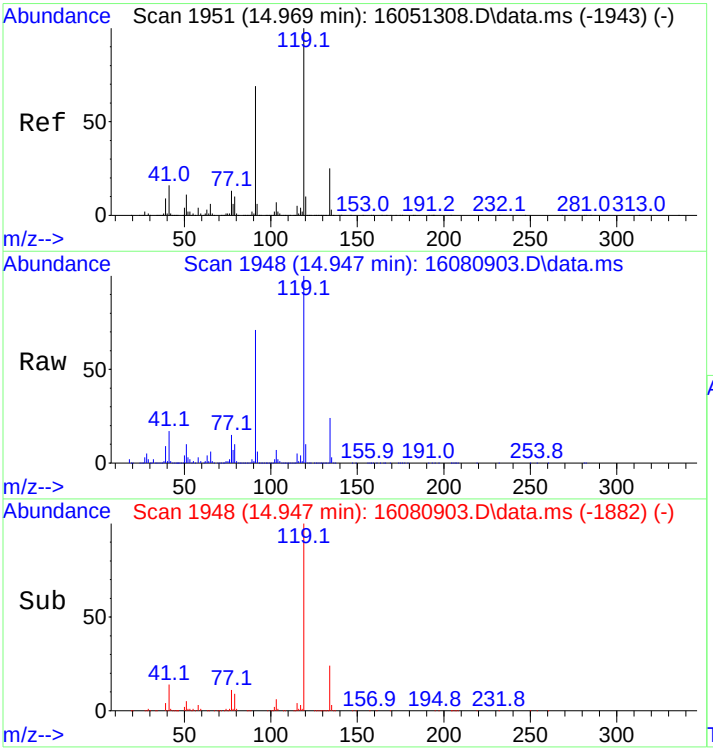


#63
n-Propylbenzene
Concen: 263.91 ng
RT: 14.465 min Scan# 1884
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 1129295

Ion	Ratio	Lower	Upper
91	100		
120	22.4	18.6	28.0

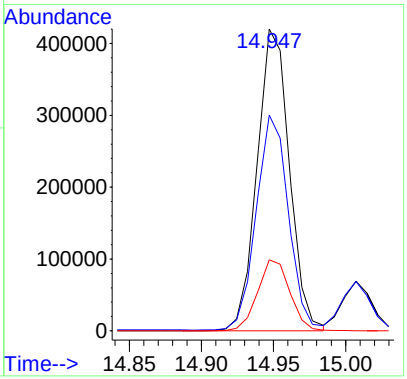


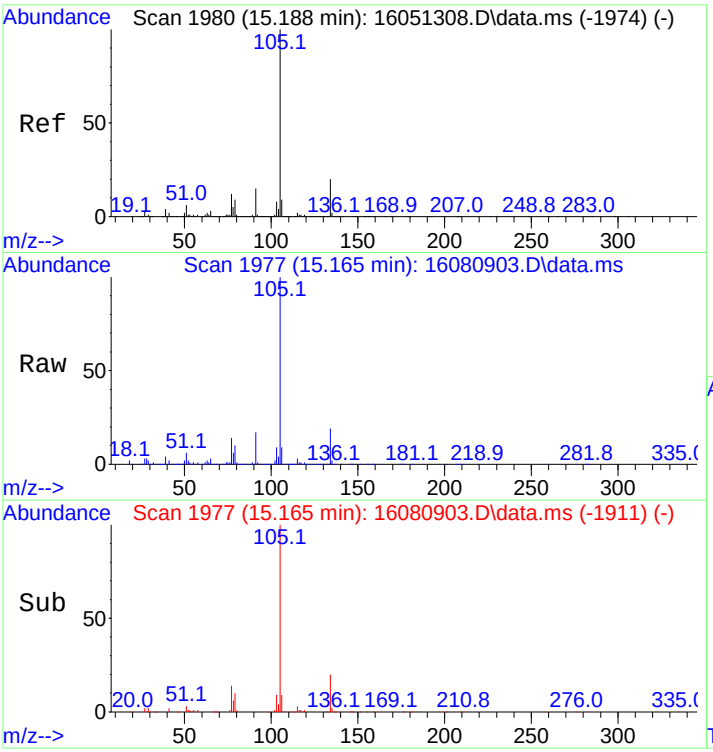


#64
tert-Butylbenzene
Concen: 255.36 ng
RT: 14.947 min Scan# 1948
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:119 Resp: 654126

Ion	Ratio	Lower	Upper
119	100		
91	70.8	54.0	81.0
134	23.6	19.9	29.9

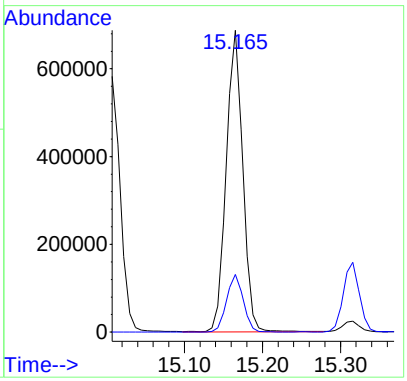


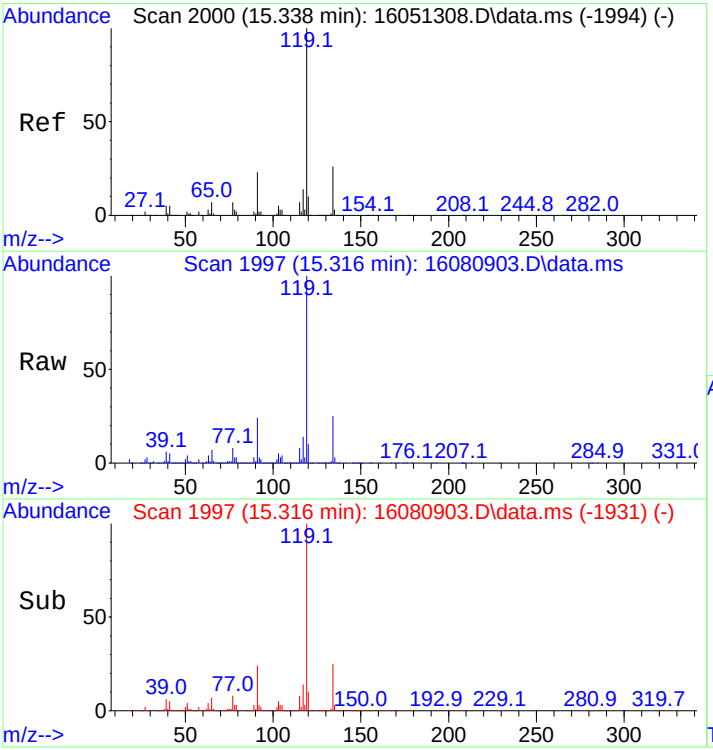


#65
sec-Butylbenzene
Concen: 257.72 ng
RT: 15.165 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 1017312

Ion	Ratio	Lower	Upper
105	100		
134	19.2	15.7	23.5

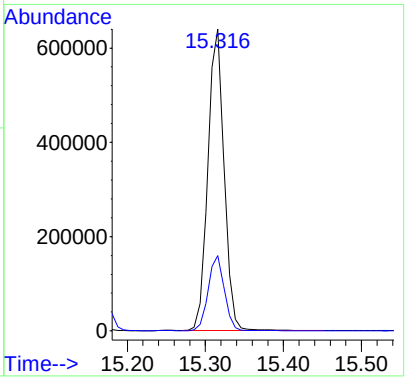


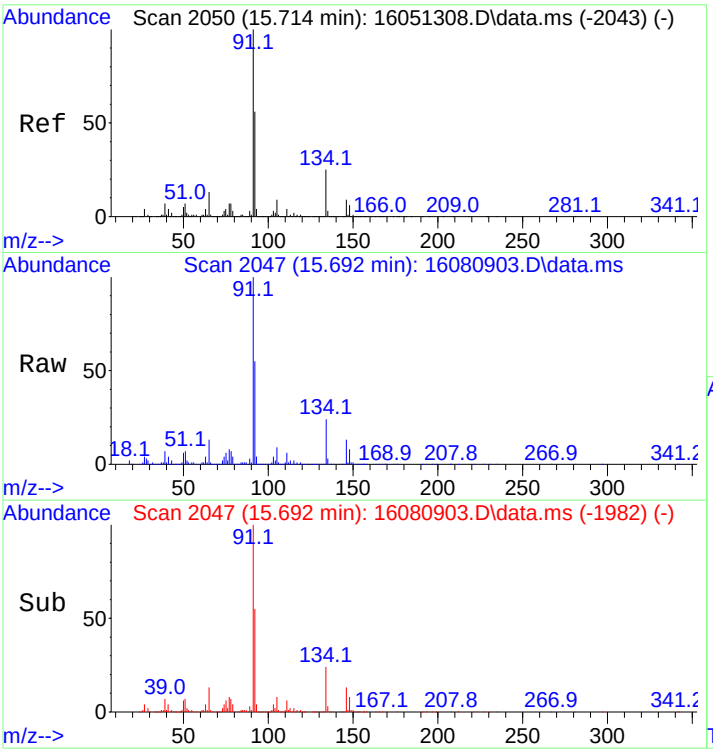


#66
p-Isopropyltoluene
Concen: 265.38 ng
RT: 15.316 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:119 Resp: 923529

Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.6	31.0

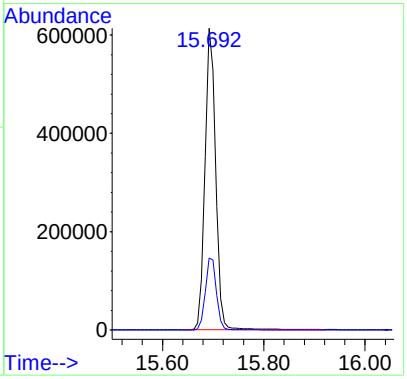


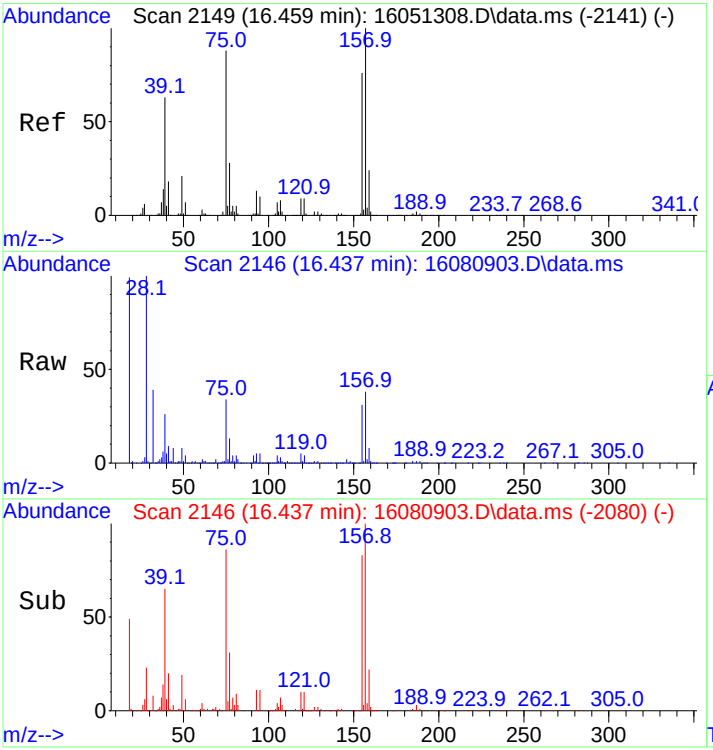


#67
n-Butylbenzene
Concen: 265.52 ng
RT: 15.692 min Scan# 2047
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 893295

Ion	Ratio	Lower	Upper
91	100		
134	24.7	21.0	31.6

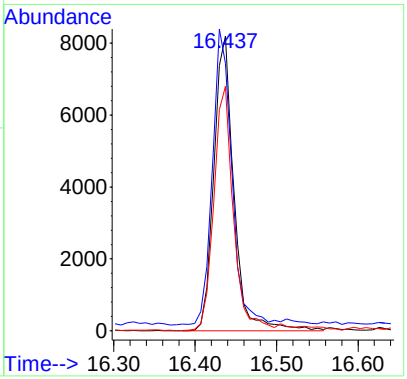




#68
1,2-Dibromo-3-chloropropane
Concen: 66.85 ng
RT: 16.437 min Scan# 2146
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:157 Resp: 14123

Ion	Ratio	Lower	Upper
157	100		
75	96.8	68.6	103.0
155	80.4	62.2	93.2



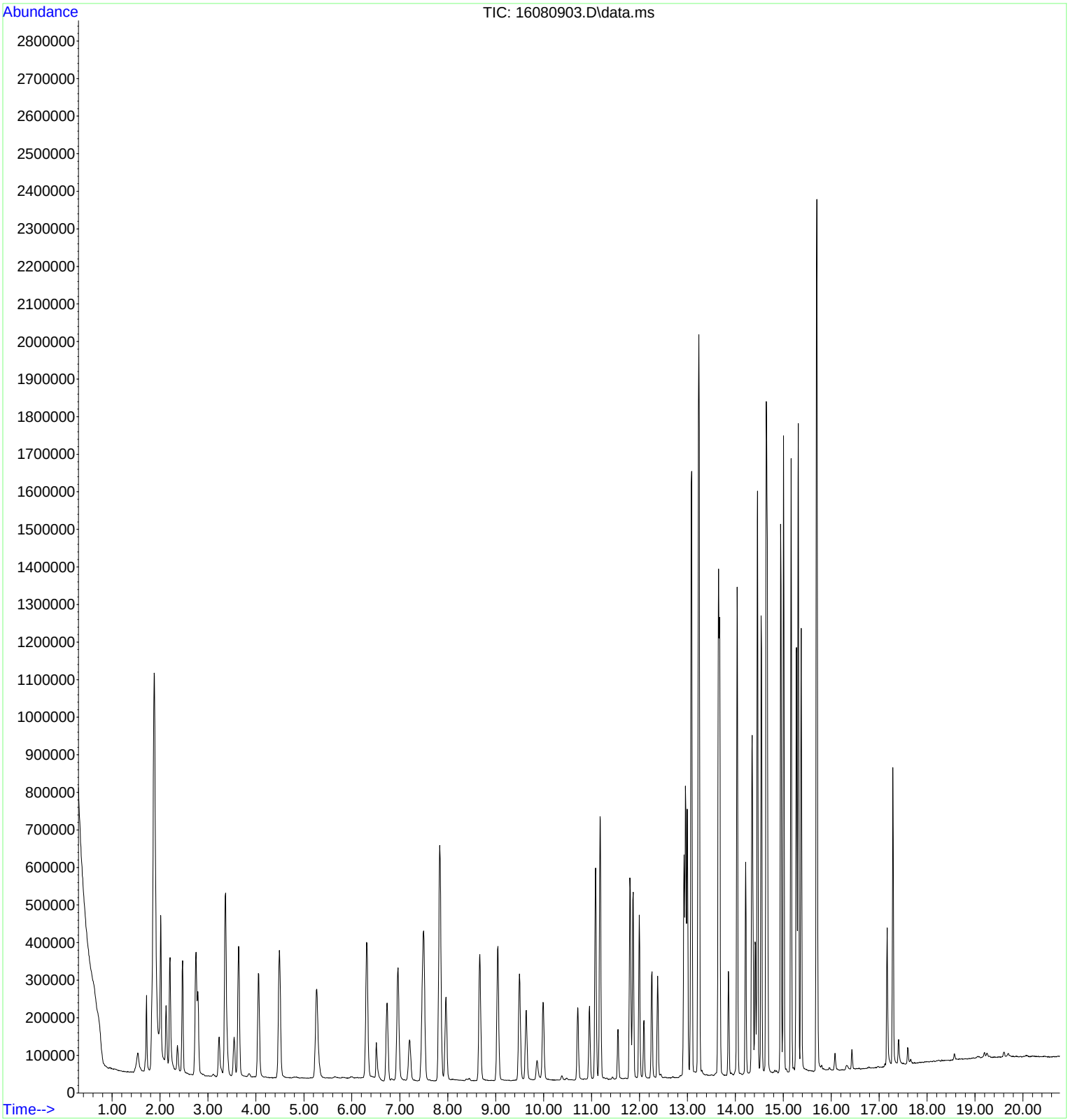
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

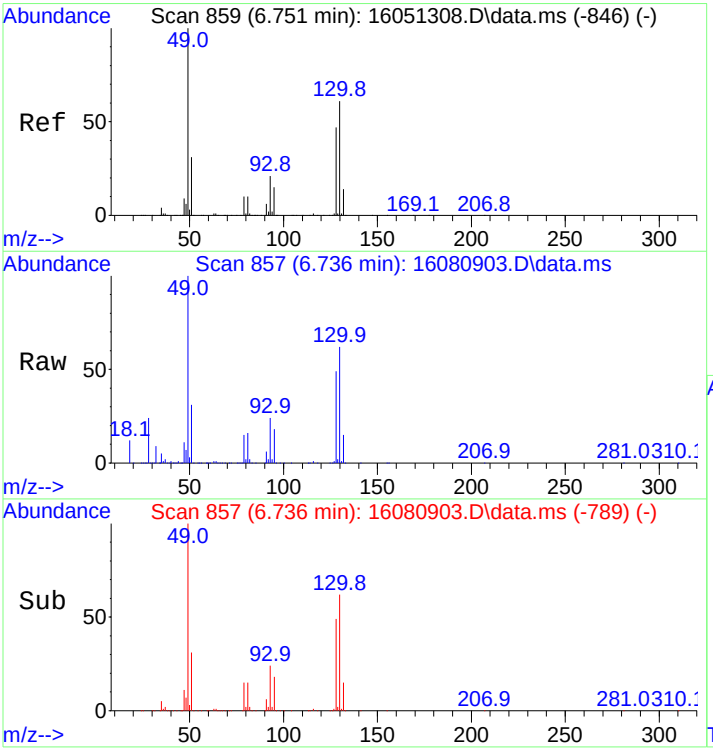
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160809\
Data File : 16080903.D
Acq On : 9 Aug 2016 10:50 am
Operator : SG Instrument MSD-3
Sample : 250ng VOST STD
Misc : Coder SG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 19 10:20:28 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

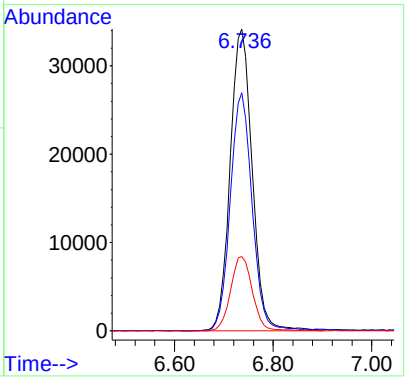


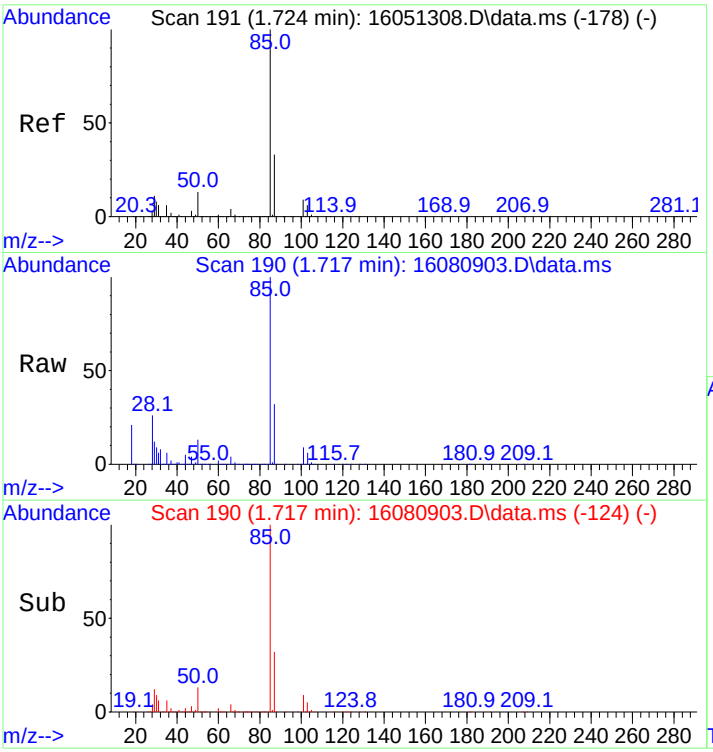


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.736 min Scan# 857
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:130 Resp: 106173

Ion	Ratio	Lower	Upper
130	100		
128	77.8	63.0	94.4
132	24.4	19.9	29.9

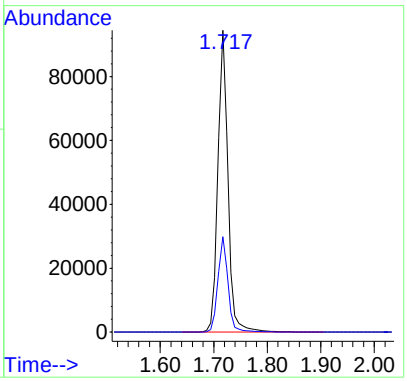


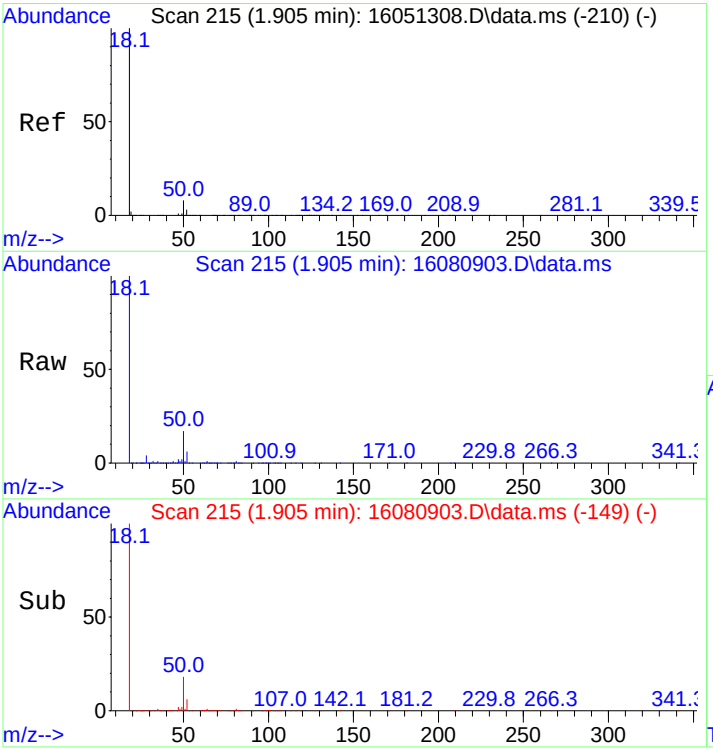


#2
Dichlorodifluoromethane
Concen: 175.05 ng
RT: 1.717 min Scan# 190
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 85 Resp: 123298

Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.0	39.0

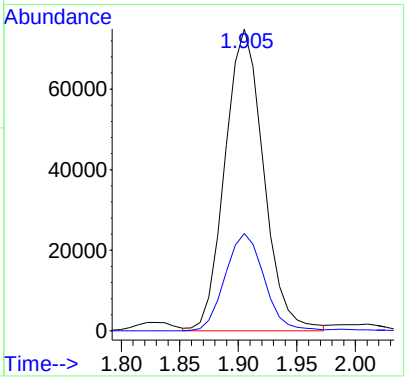


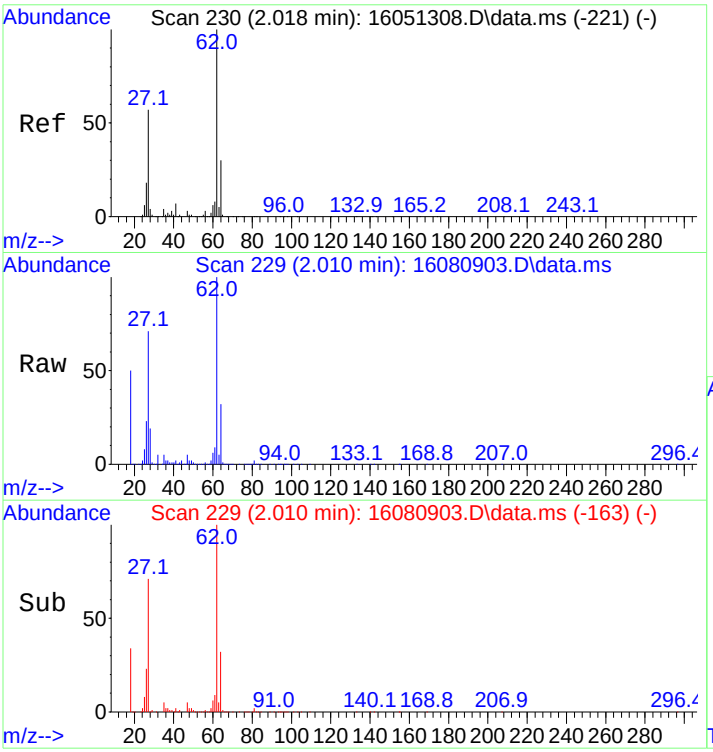


#3
Chloromethane
Concen: 205.12 ng
RT: 1.905 min Scan# 215
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 50 Resp: 171349

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

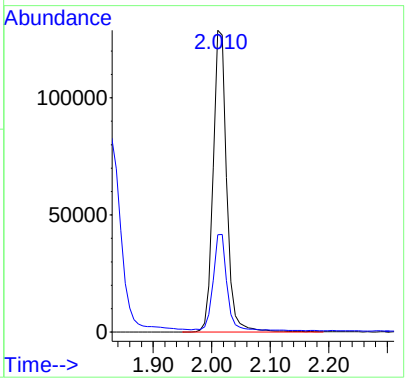


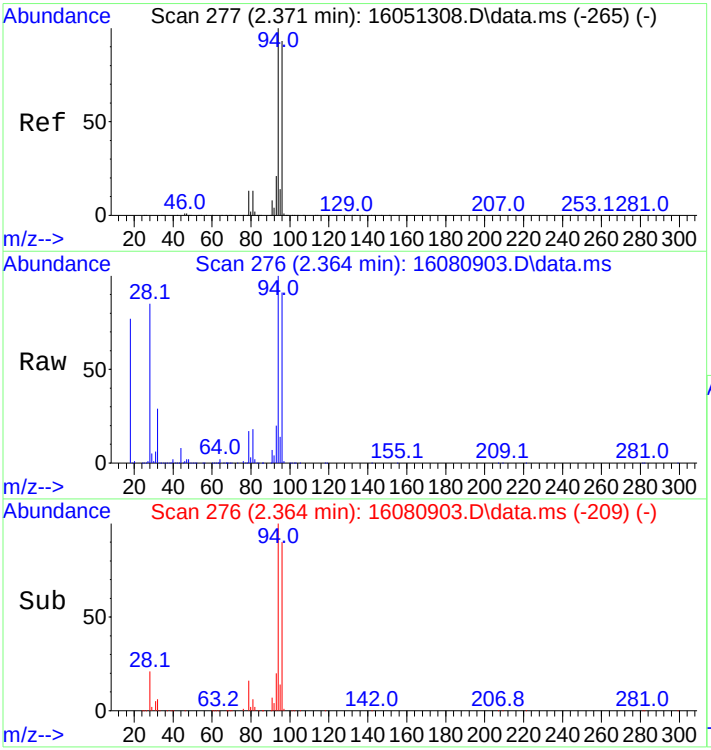


#4
Vinyl Chloride
Concen: 207.43 ng
RT: 2.010 min Scan# 229
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 62 Resp: 208252

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.7	38.5

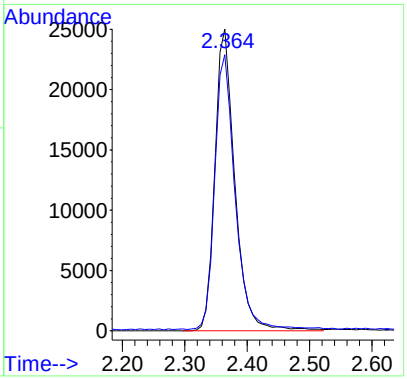


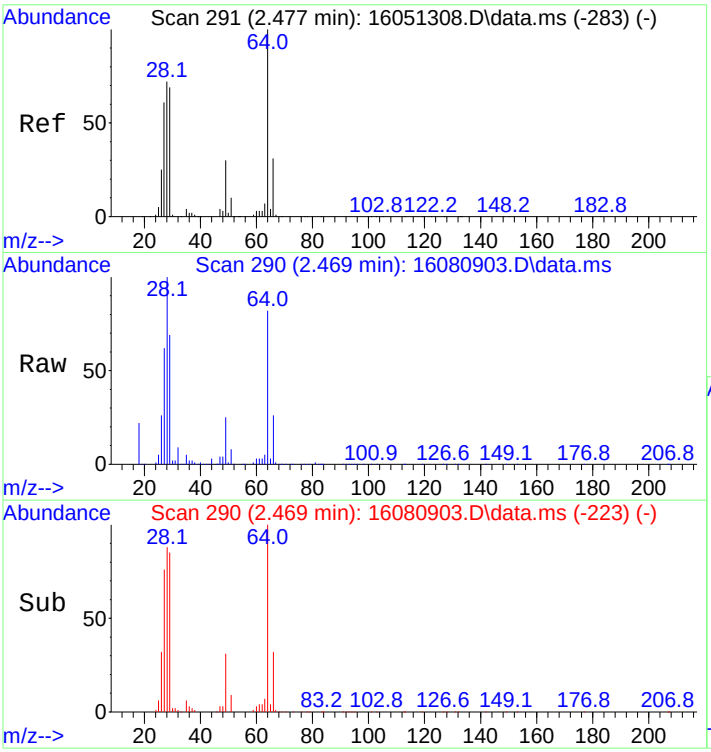


#5
Bromomethane
Concen: 125.06 ng
RT: 2.364 min Scan# 276
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 94 Resp: 55805

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.5	111.7

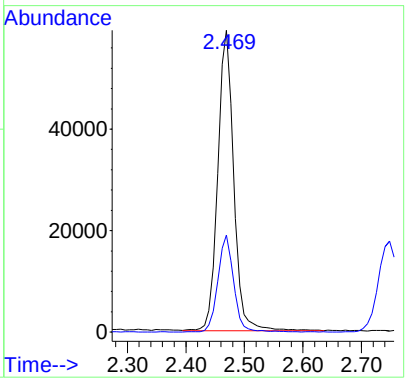


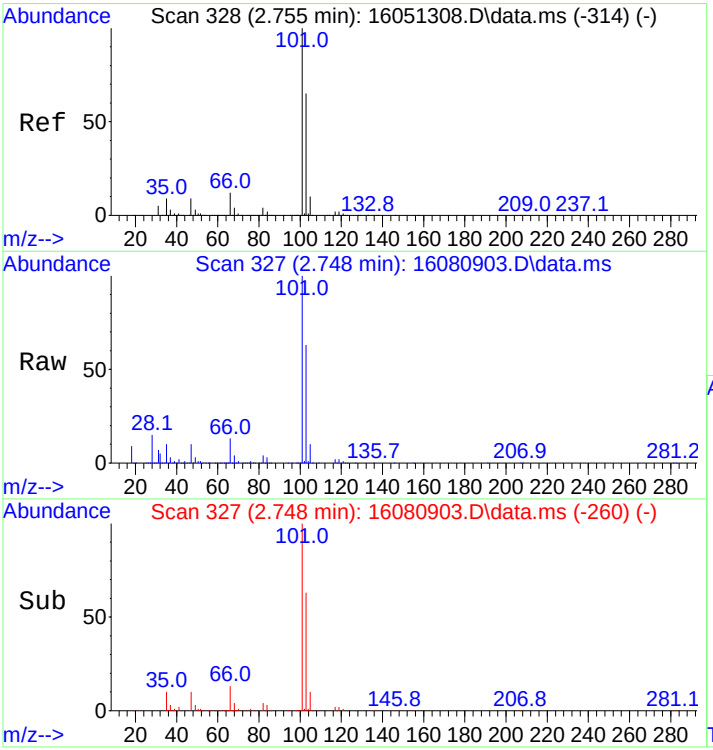


#6
Chloroethane
Concen: 215.17 ng
RT: 2.469 min Scan# 290
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 64 Resp: 112476

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.0	37.4

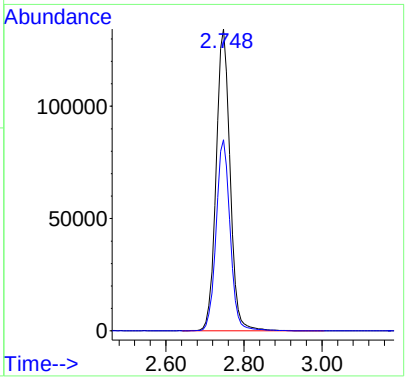


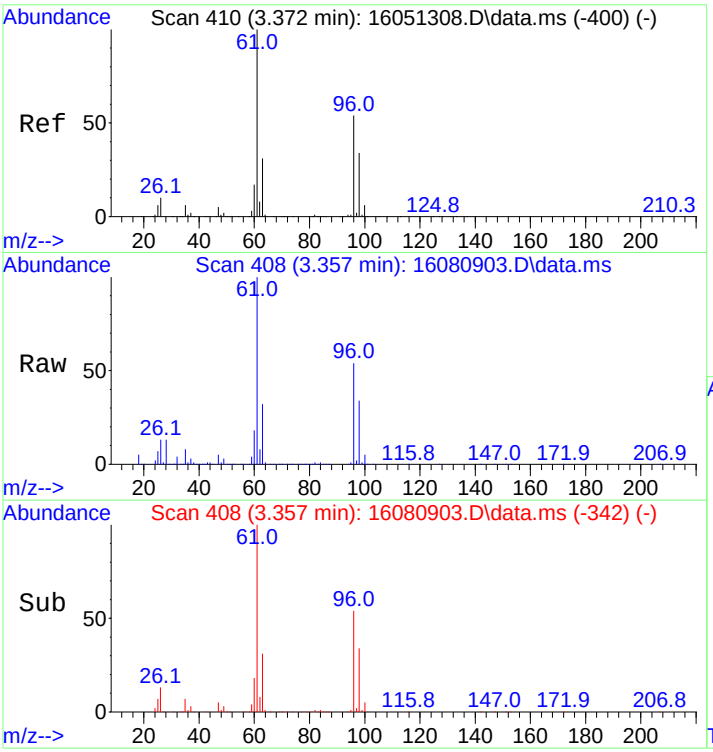


#7
Trichlorofluoromethane
Concen: 223.06 ng
RT: 2.748 min Scan# 327
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:101 Resp: 334044

Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.8	77.6

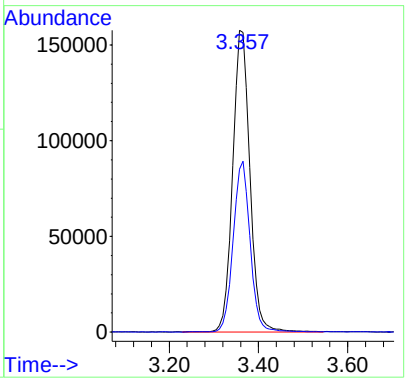


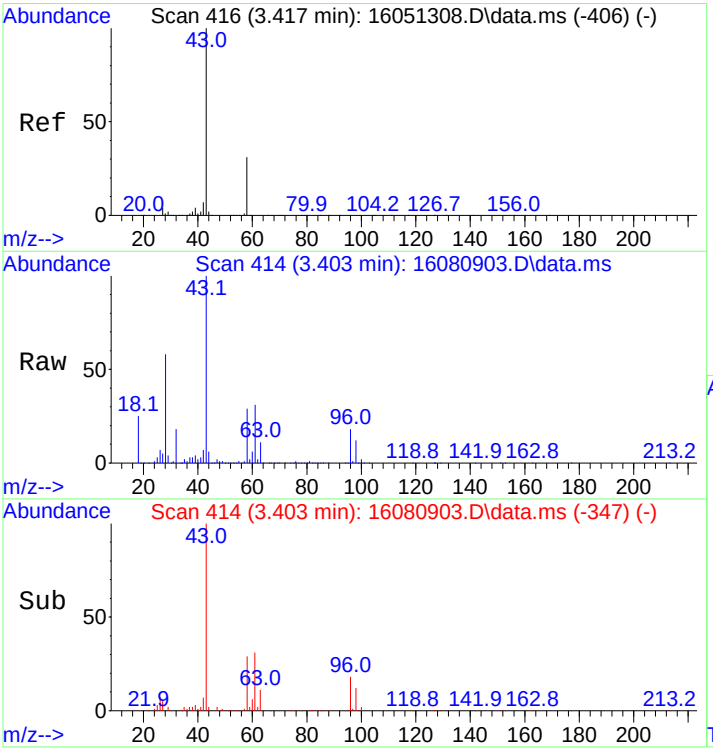


#8
1,1-Dichloroethene
Concen: 233.48 ng
RT: 3.357 min Scan# 408
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 61 Resp: 421412

Ion	Ratio	Lower	Upper
61	100		
96	55.6	44.1	66.1

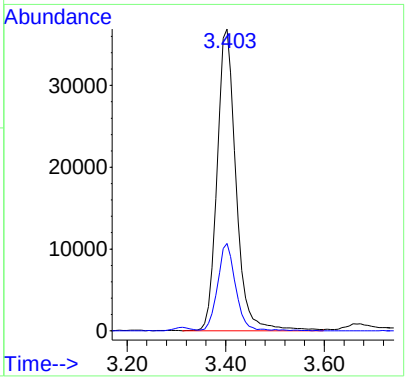


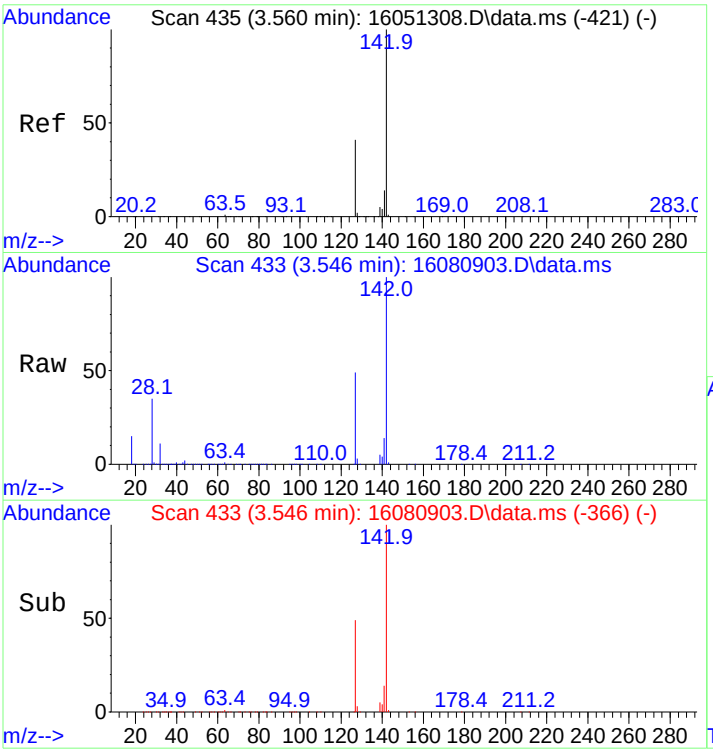


#9
Acetone
Concen: 146.41 ng
RT: 3.403 min Scan# 414
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 98354

Ion	Ratio	Lower	Upper
43	100		
58	27.4	24.7	37.1

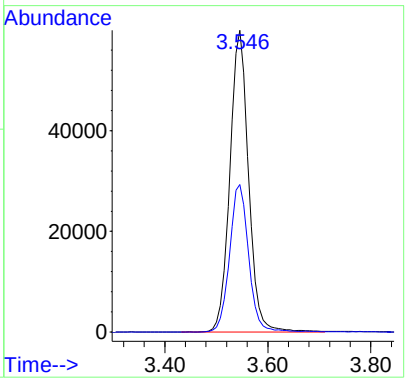


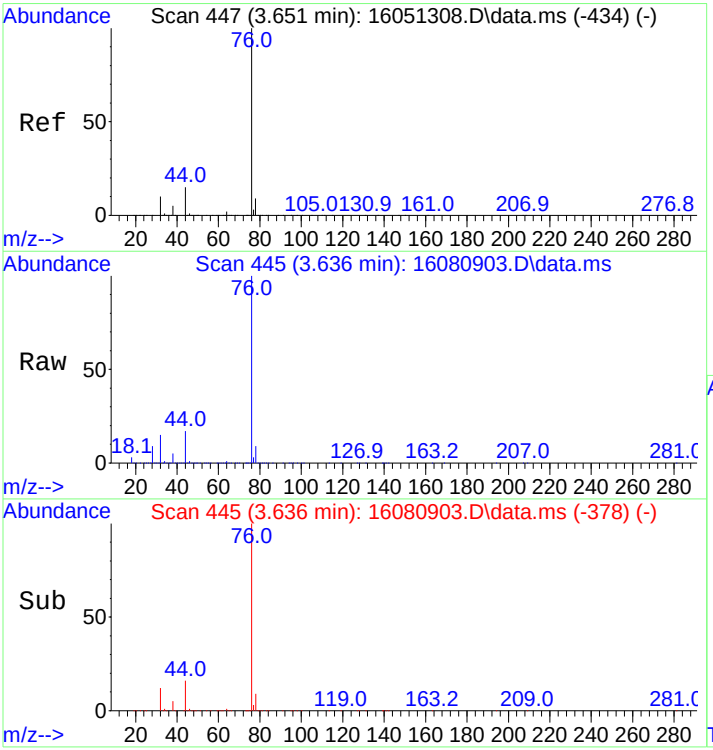


#10
Iodomethane
Concen: 211.66 ng m
RT: 3.546 min Scan# 433
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:142 Resp: 151523

Ion	Ratio	Lower	Upper
142	100		
127	50.1	32.8	49.2#

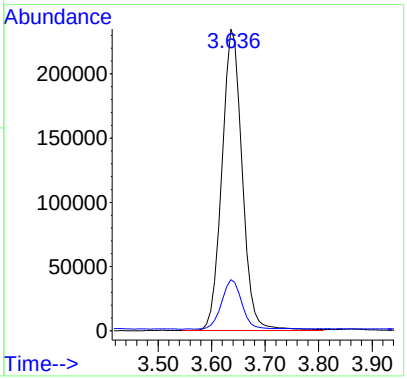


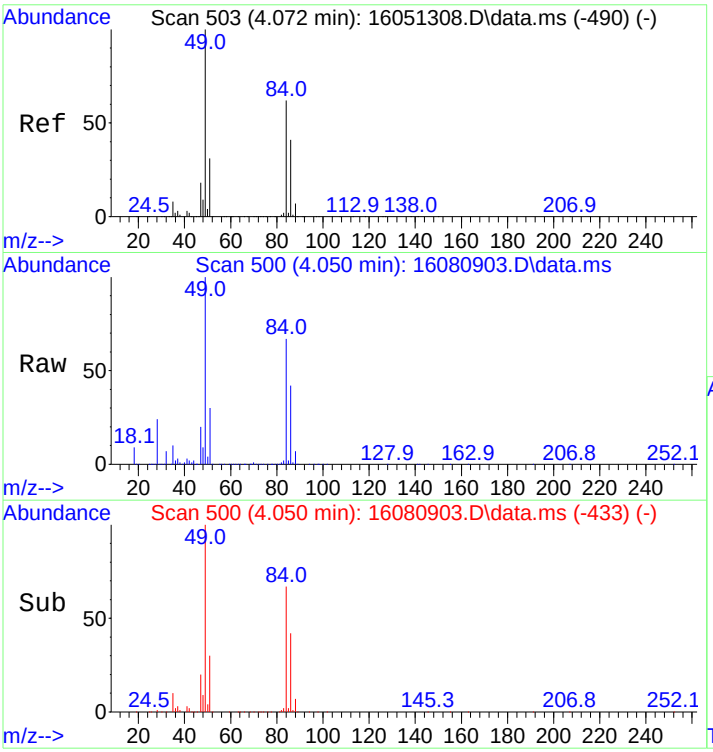


#11
Carbon disulfide
Concen: 218.96 ng
RT: 3.636 min Scan# 445
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 76 Resp: 618669

Ion	Ratio	Lower	Upper
76	100		
44	16.1	12.2	18.4

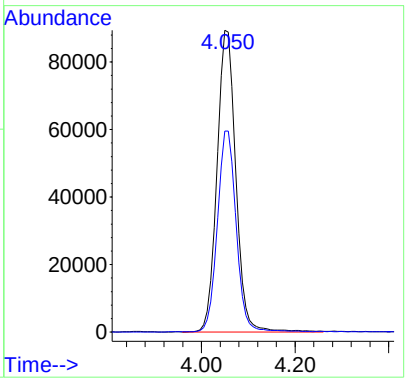


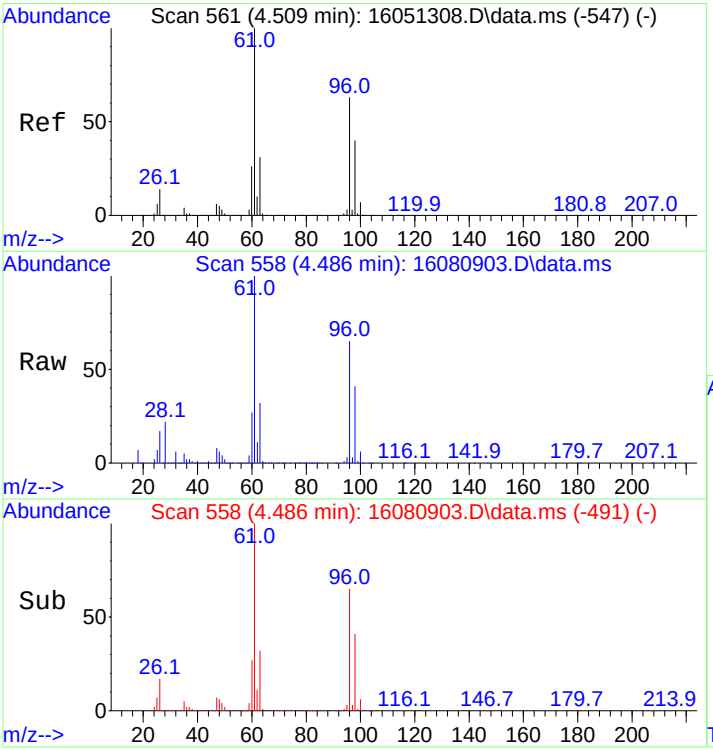


#12
Methylene Chloride
Concen: 199.85 ng
RT: 4.050 min Scan# 500
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 49 Resp: 249625

Ion	Ratio	Lower	Upper
49	100		
84	66.9	48.4	72.6

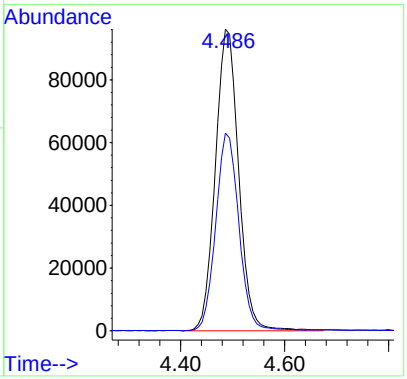


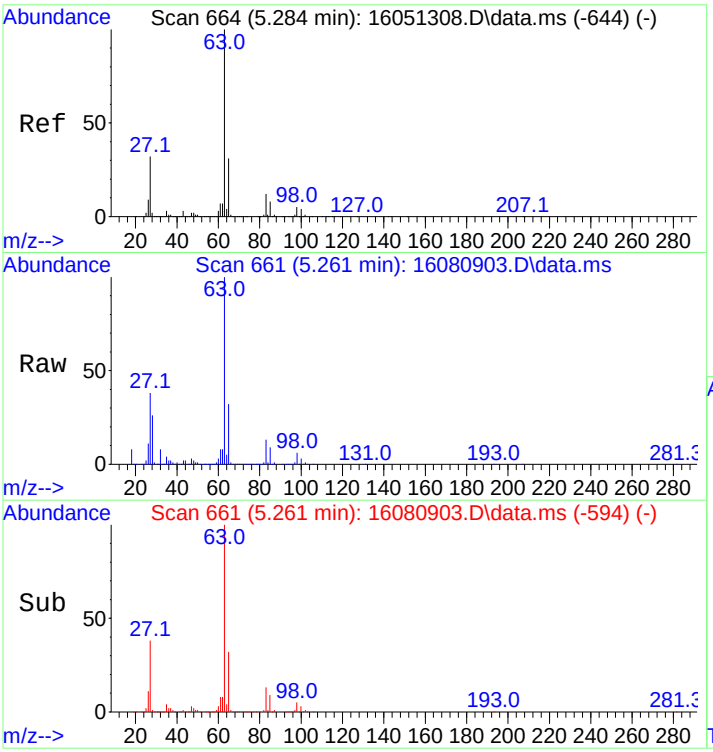


#13
trans,1,2-Dichloroethene
Concen: 248.63 ng
RT: 4.486 min Scan# 558
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 61 Resp: 297876

Ion	Ratio	Lower	Upper
61	100		
96	65.1	50.2	75.4

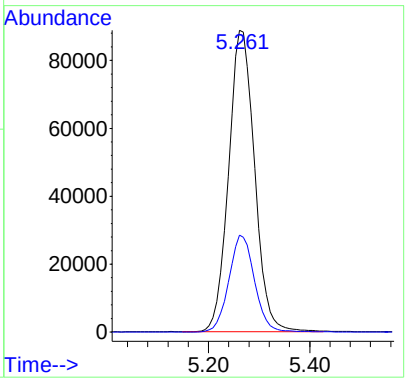


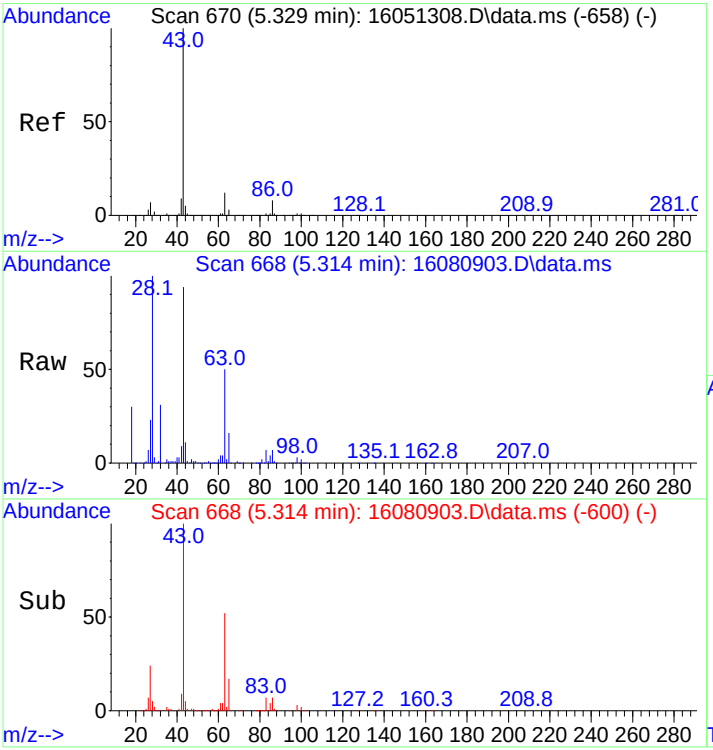


#14
1,1-Dichloroethane
Concen: 213.35 ng
RT: 5.261 min Scan# 661
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 63 Resp: 317032

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.6	37.0

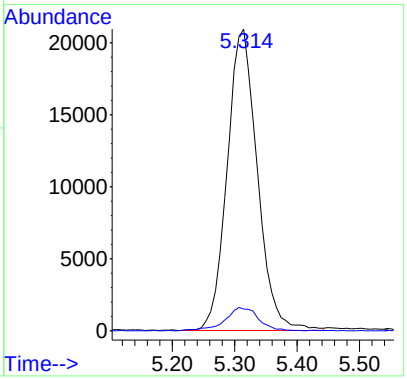


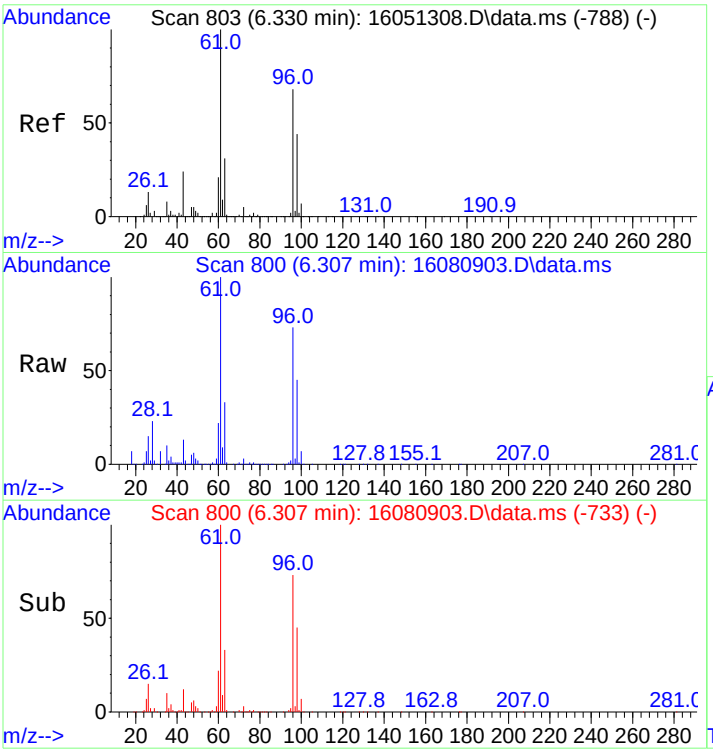


#15
Vinyl Acetate
Concen: 92.99 ng
RT: 5.314 min Scan# 668
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 70403

Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.6	9.8

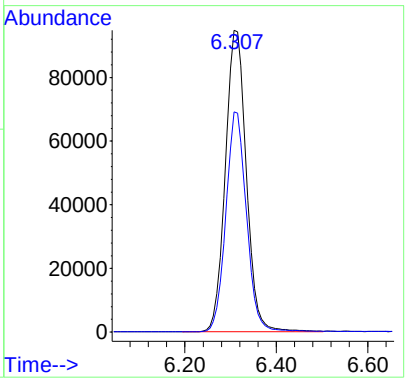


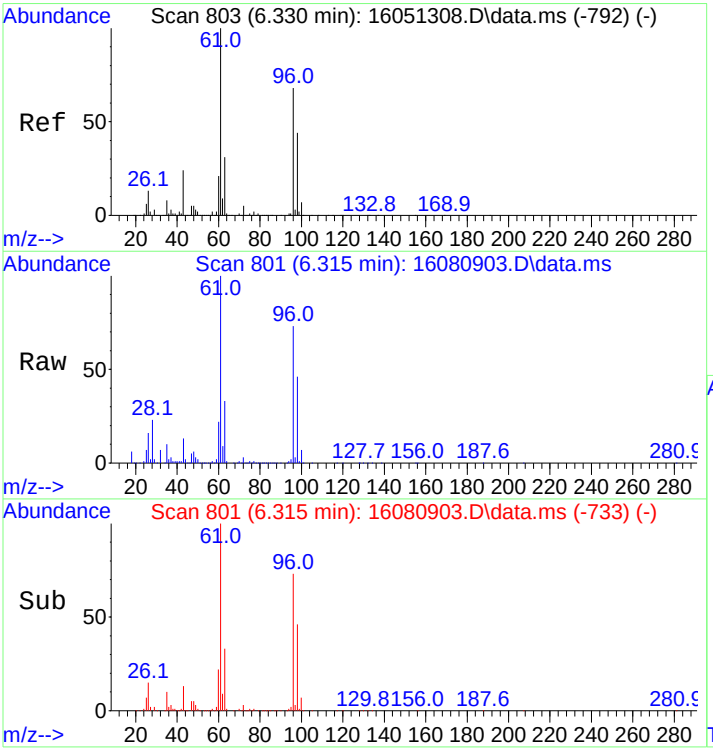


#16
cis,1,2-Dichloroethene
Concen: 217.53 ng
RT: 6.307 min Scan# 800
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 61 Resp: 302049

Ion	Ratio	Lower	Upper
61	100		
96	71.8	54.6	81.8

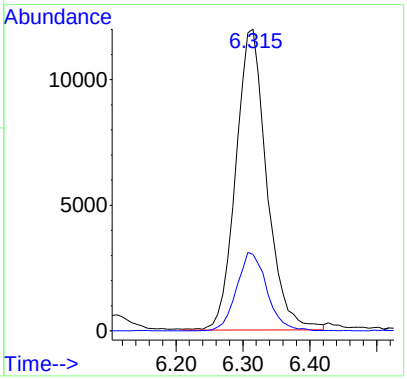


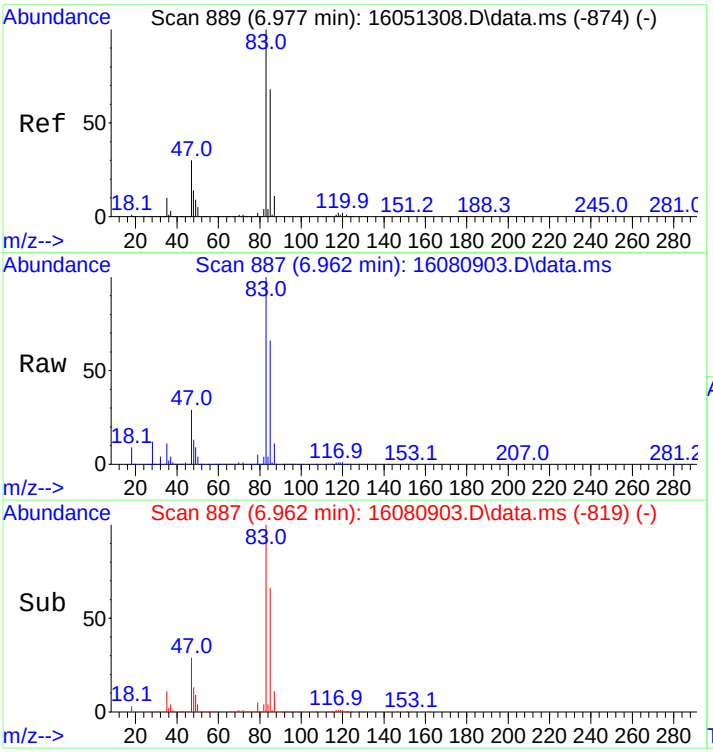


#17
2-Butanone
Concen: 80.42 ng
RT: 6.315 min Scan# 801
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 38626

Ion	Ratio	Lower	Upper
43	100		
72	25.5	17.4	26.2

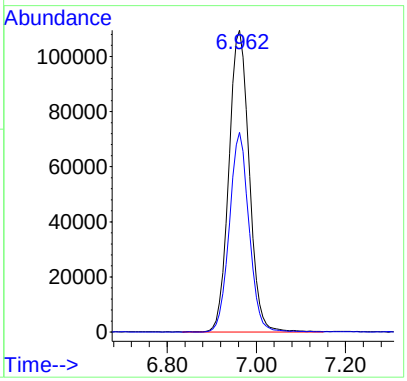


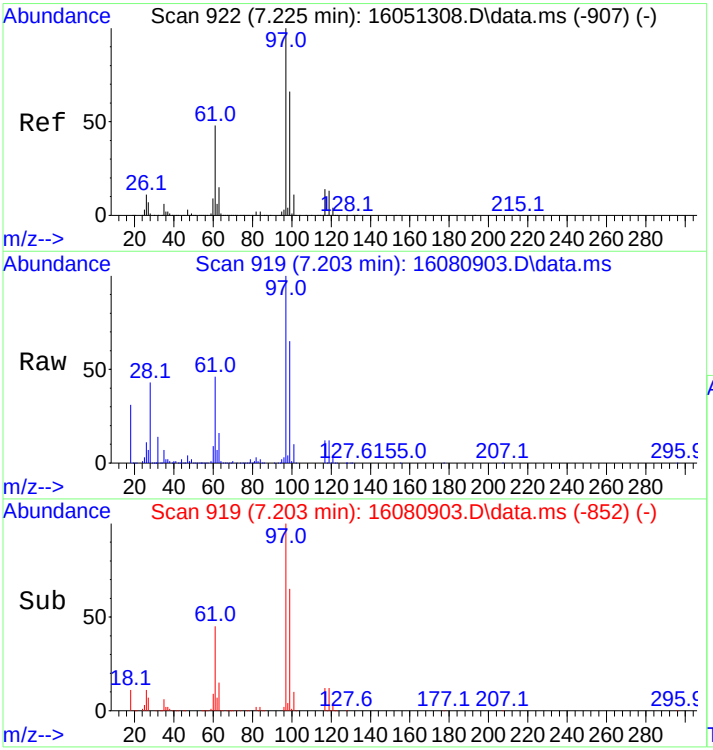


#18
Chloroform
Concen: 247.90 ng
RT: 6.962 min Scan# 887
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 345574

Ion	Ratio	Lower	Upper
83	100		
85	64.1	53.9	80.9

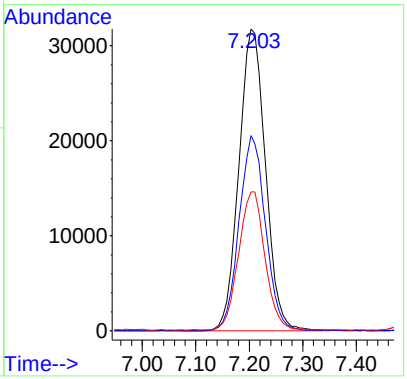


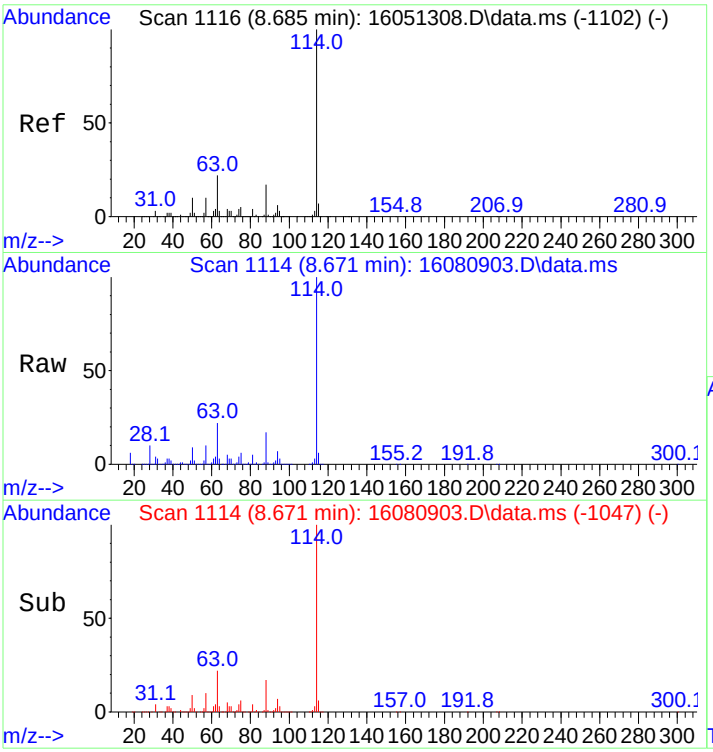


#19
1,1,1-Trichloroethane
Concen: 137.66 ng
RT: 7.203 min Scan# 919
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 97 Resp: 109733

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.3	76.9
61	45.5	37.6	56.4

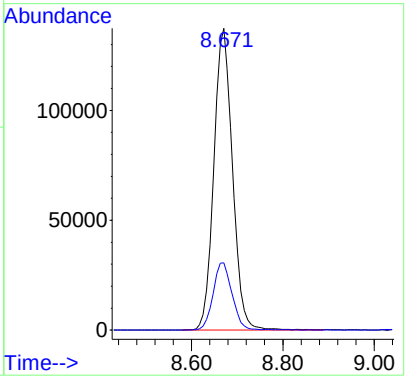


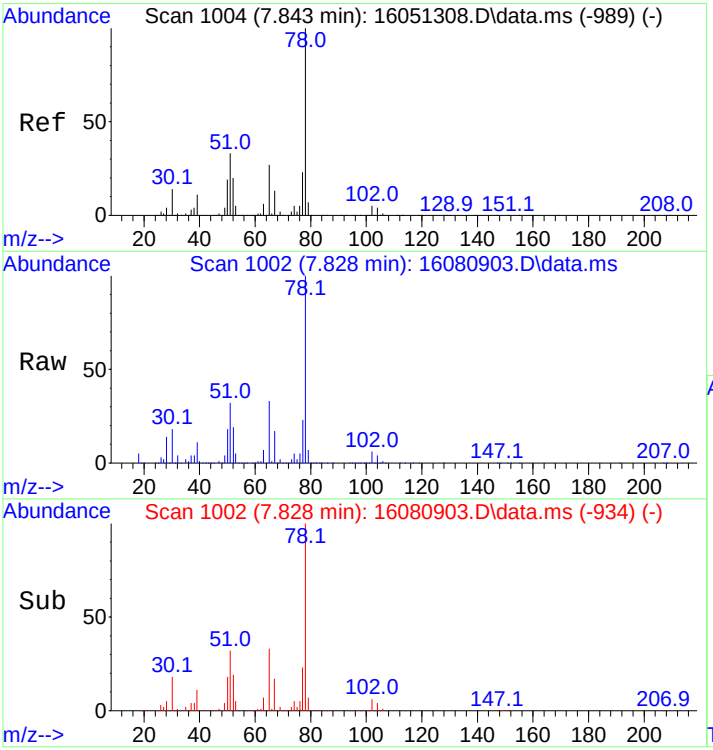


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.671 min Scan# 1114
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:114 Resp: 387482

Ion	Ratio	Lower	Upper
114	100		
63	22.8	17.8	26.8

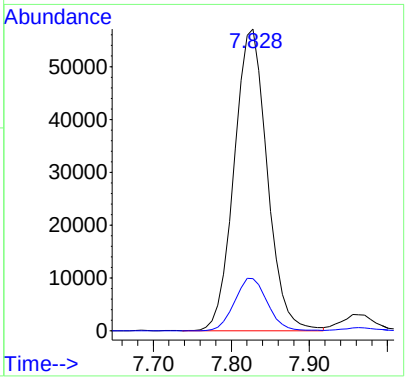


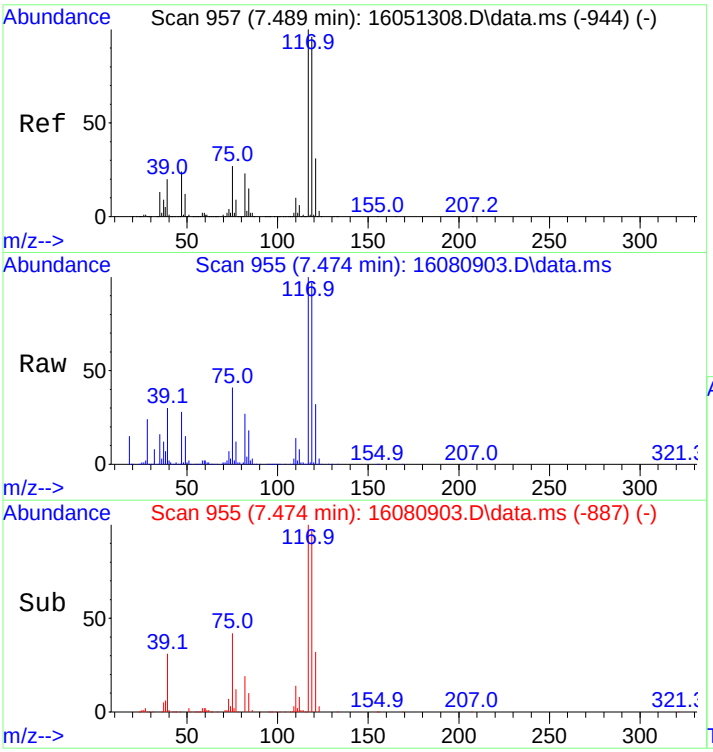


#21
d4-1,2-Dichloroethane(SURR)
Concen: 320.45 ng
RT: 7.828 min Scan# 1002
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 65 Resp: 168190

Ion	Ratio	Lower	Upper
65	100		
102	17.3	16.5	24.7

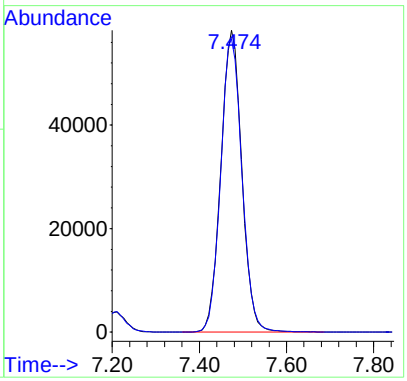


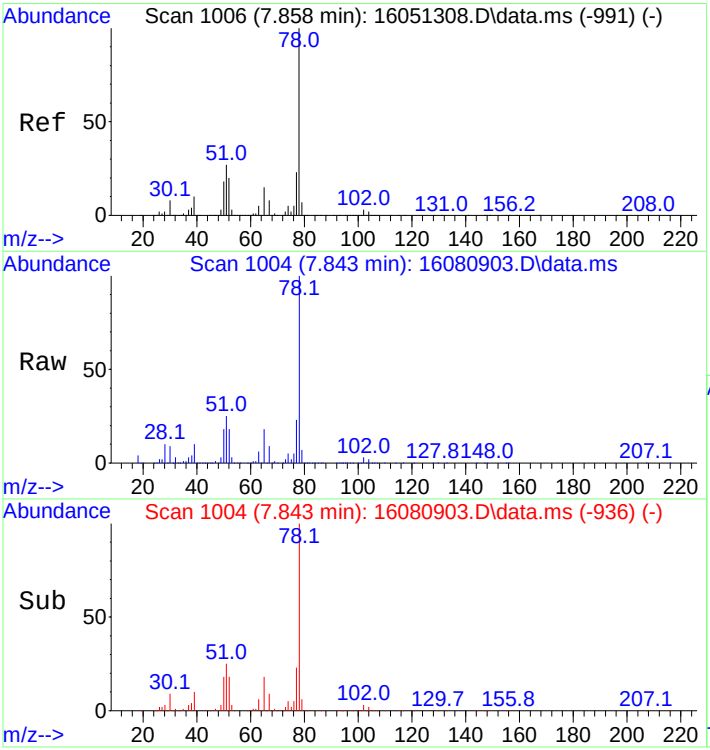


#22
Carbon Tetrachloride
Concen: 262.56 ng
RT: 7.474 min Scan# 955
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:117 Resp: 194363

Ion	Ratio	Lower	Upper
117	100		
119	98.8	77.0	115.4

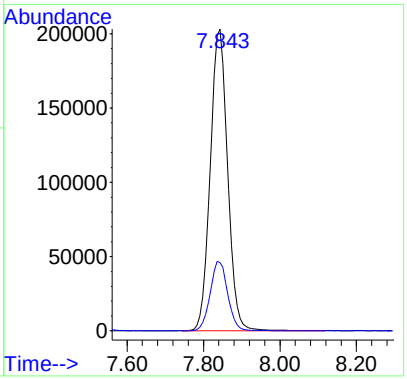


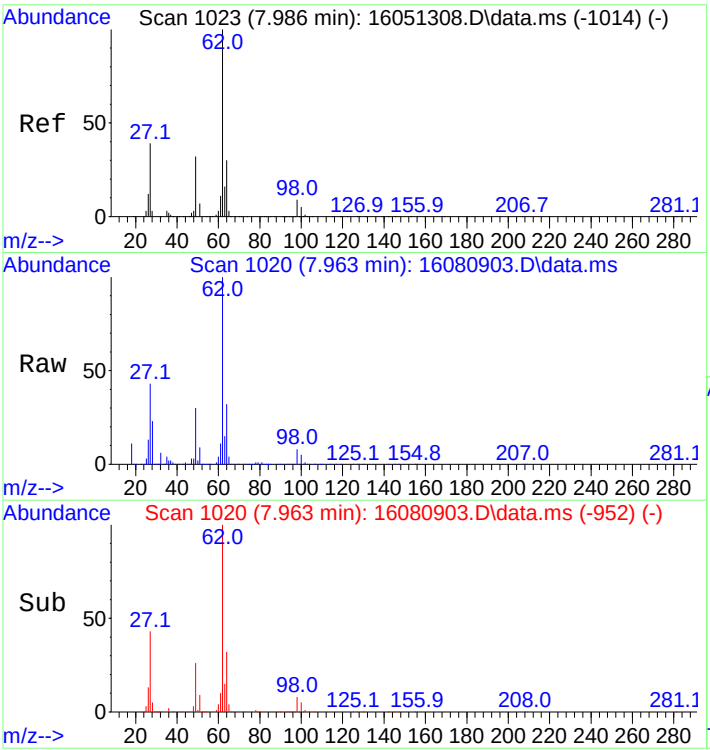


#23
Benzene
Concen: 227.88 ng
RT: 7.843 min Scan# 1004
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 78 Resp: 639231

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

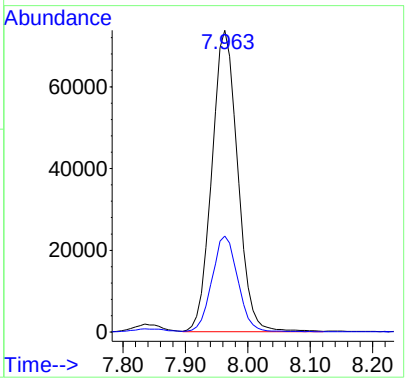


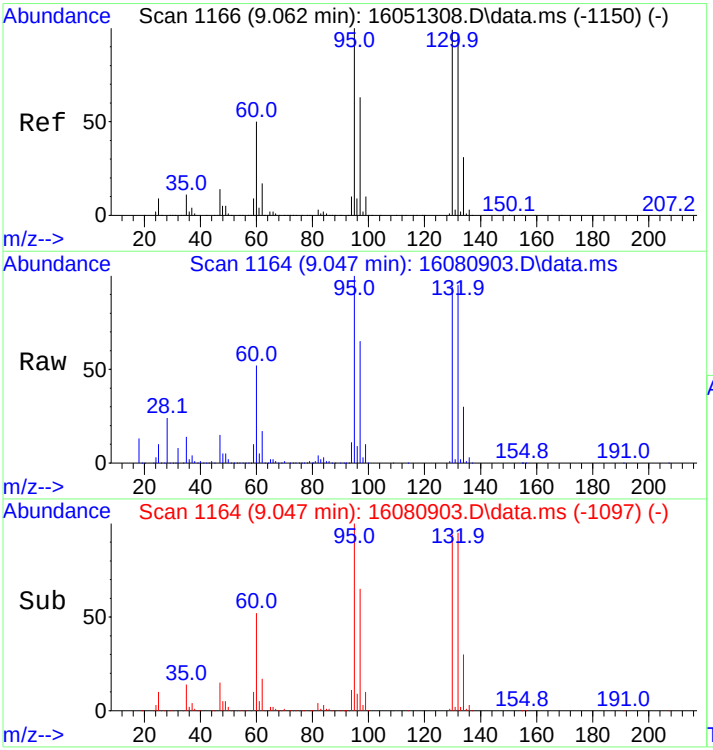


#24
1,2-Dichloroethane
Concen: 265.01 ng
RT: 7.963 min Scan# 1020
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 62 Resp: 212809

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.8	37.2

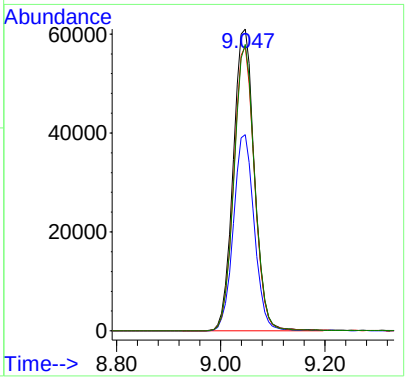


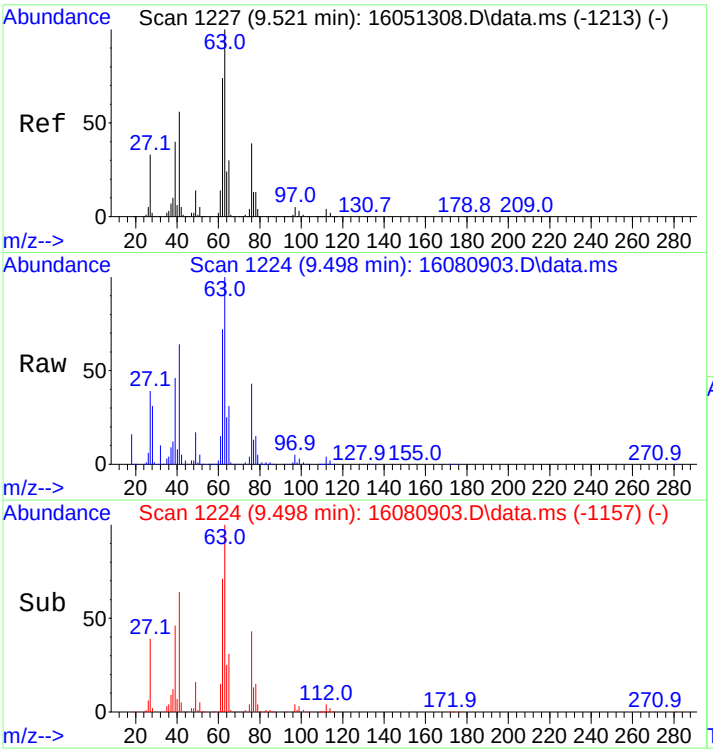


#25
Trichloroethene
Concen: 274.72 ng
RT: 9.047 min Scan# 1164
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 95 Resp: 172767

Ion	Ratio	Lower	Upper
95	100		
97	63.7	51.8	77.8
130	92.0	81.9	122.9
132	92.3	81.2	121.8

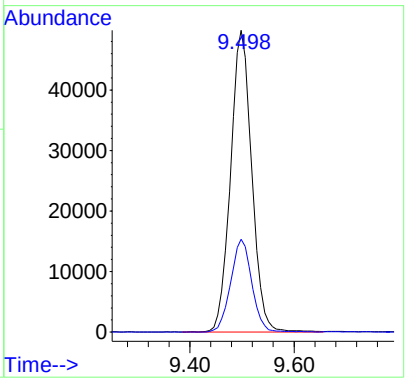


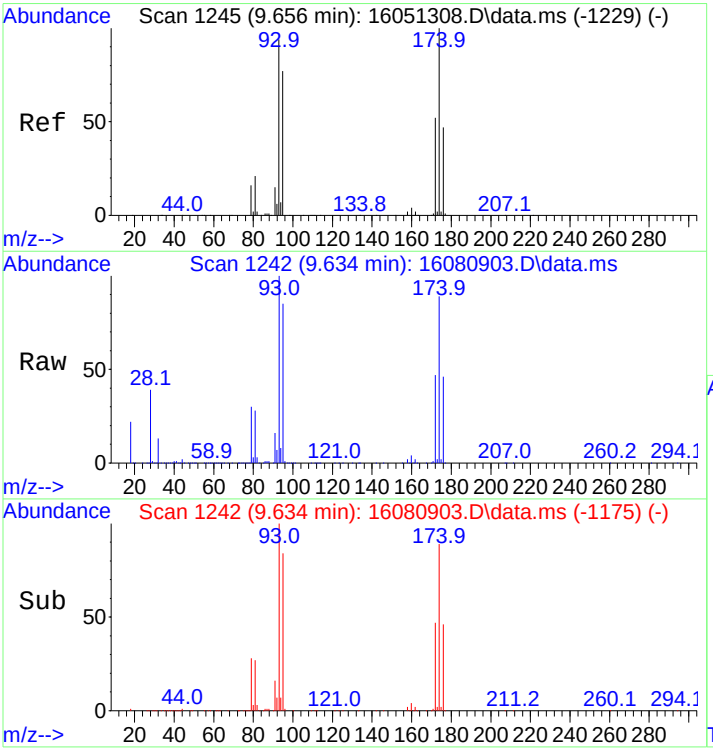


#26
1,2-Dichloropropane
Concen: 218.58 ng
RT: 9.498 min Scan# 1224
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 63 Resp: 140548

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.2	36.2

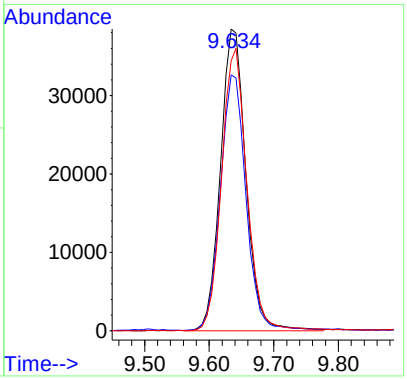


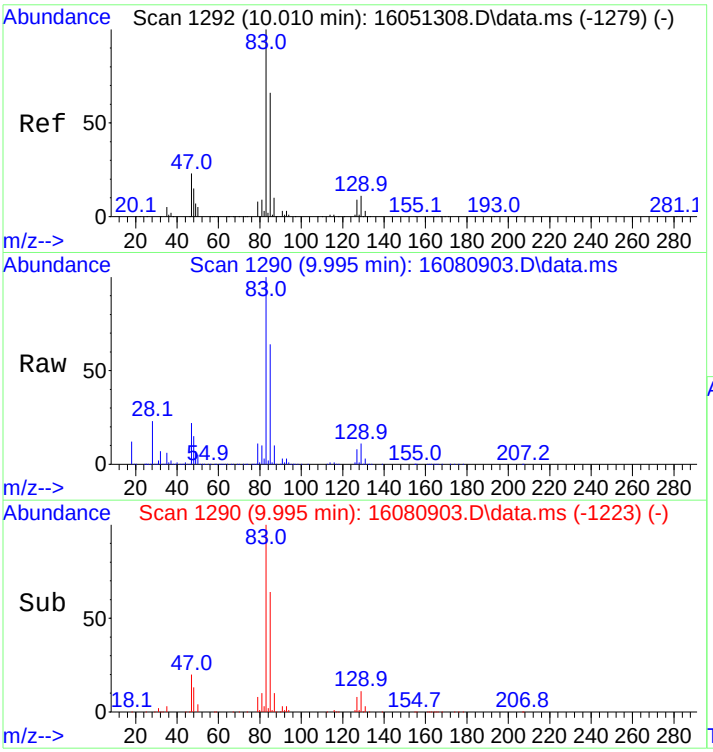


#27
Dibromomethane
Concen: 292.67 ng
RT: 9.634 min Scan# 1242
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 93 Resp: 105407

Ion	Ratio	Lower	Upper
93	100		
95	85.1	65.5	98.3
174	93.2	85.5	128.3

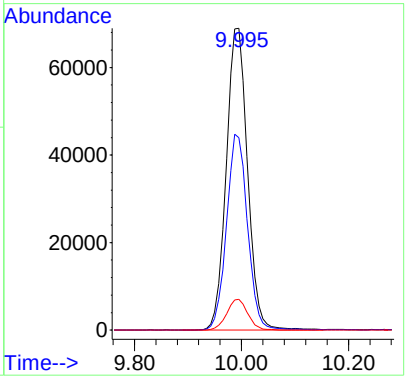


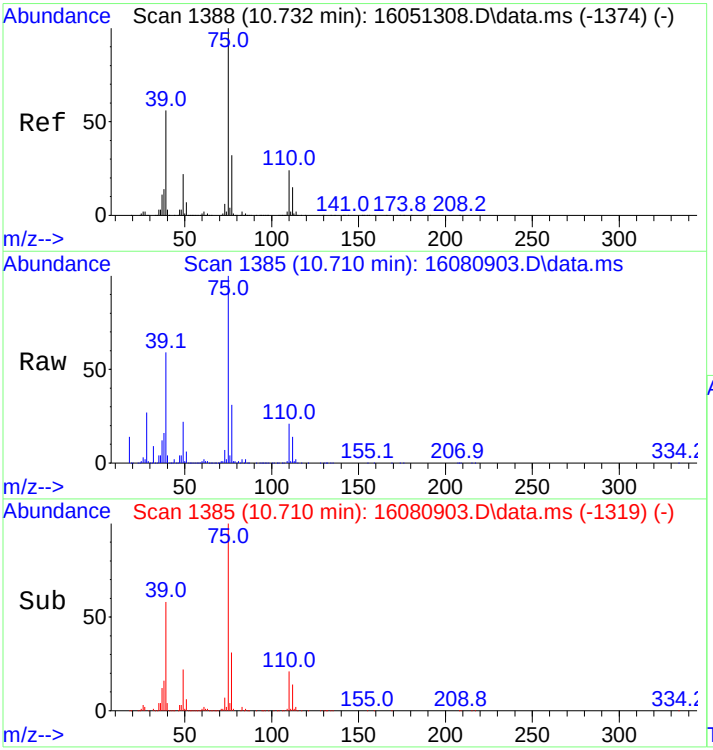


#28
Bromodichloromethane
Concen: 271.74 ng
RT: 9.995 min Scan# 1290
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 190252

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
87	10.1	8.3	12.5

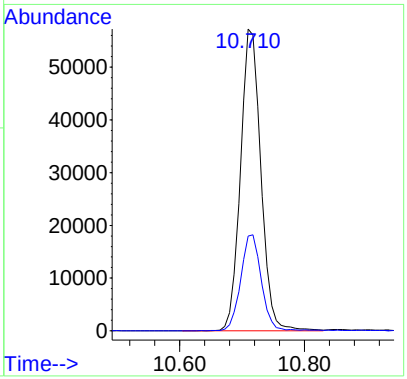


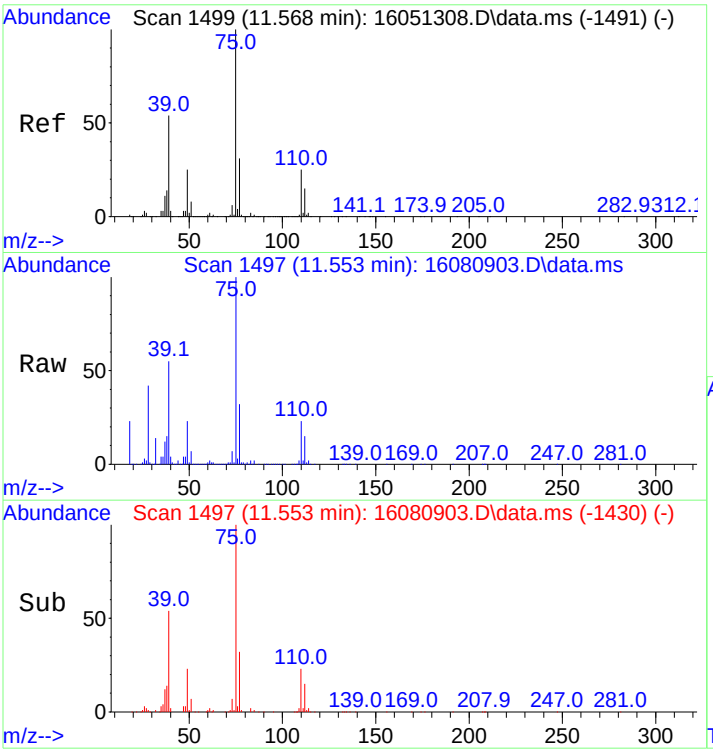


#29
cis,1,3-Dichloropropene
Concen: 181.45 ng
RT: 10.710 min Scan# 1385
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 130148

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.6	38.4

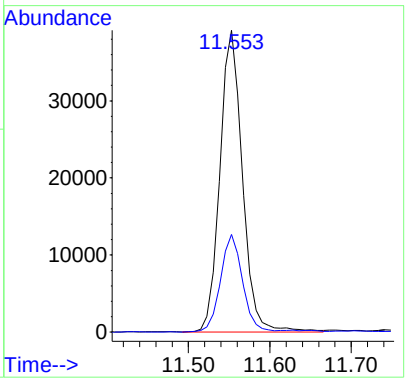


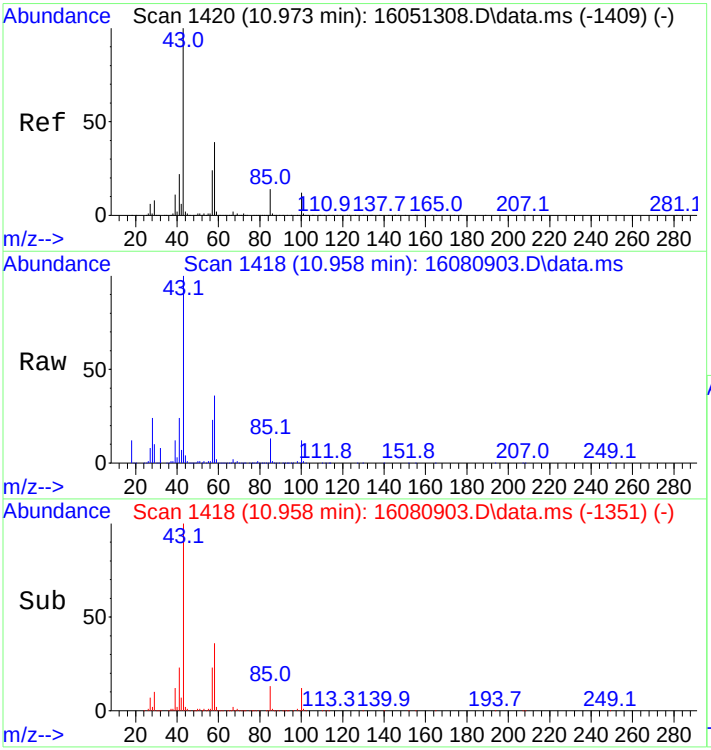


#30
trans,1,3-Dichloropropene
Concen: 155.19 ng
RT: 11.553 min Scan# 1497
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 75710

Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.0	39.0

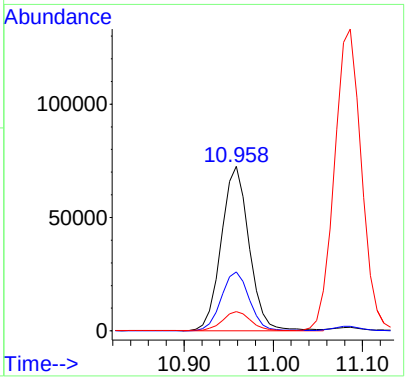


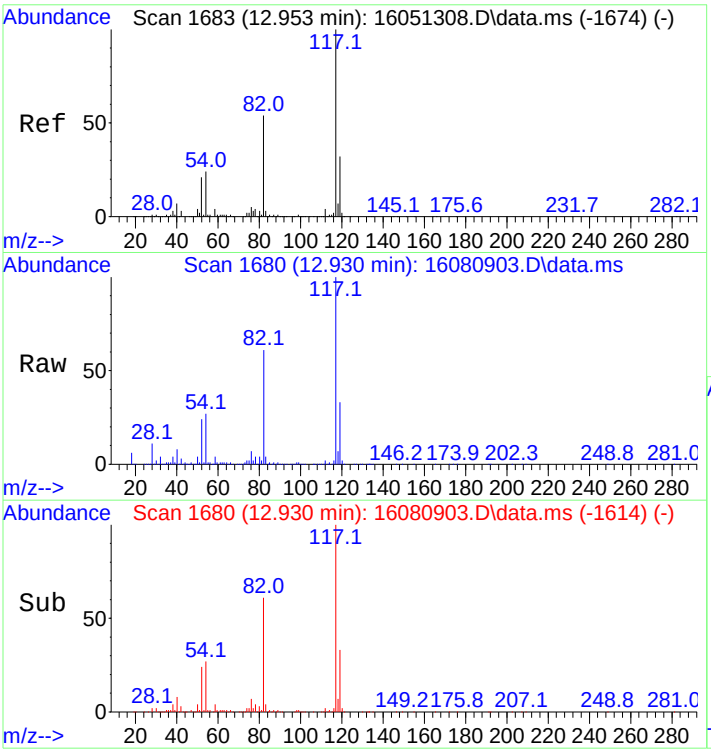


#31
4-Methyl-2-Pentanone
Concen: 165.96 ng
RT: 10.958 min Scan# 1418
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 157144

Ion	Ratio	Lower	Upper
43	100		
58	36.2	31.3	46.9
100	11.7	10.2	15.2

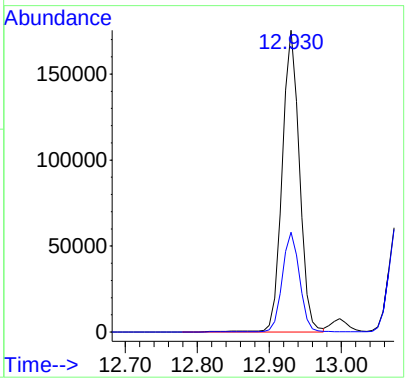


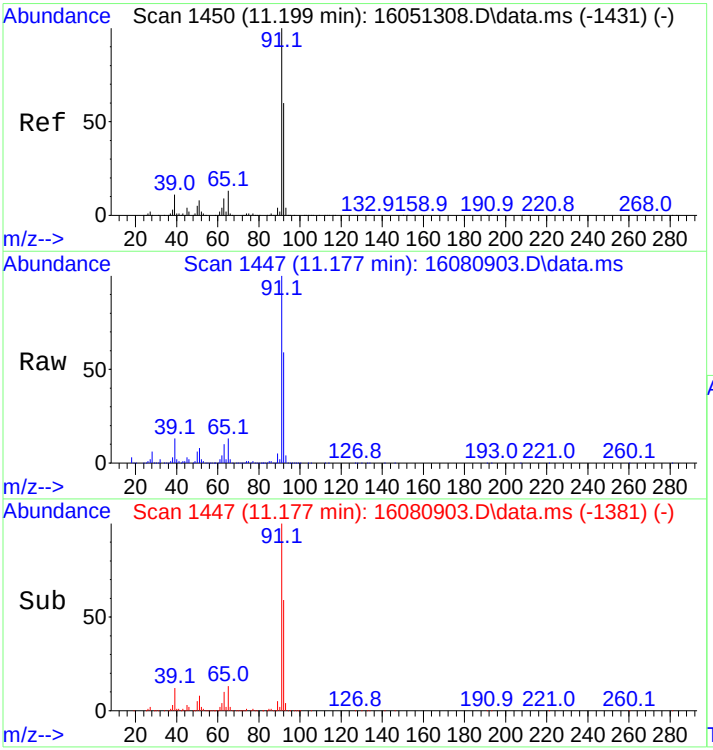


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:117 Resp: 292892

Ion	Ratio	Lower	Upper
117	100		
119	33.2	25.8	38.8

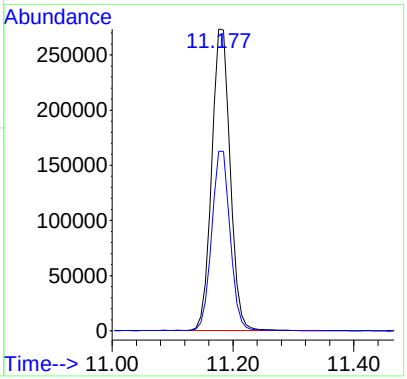


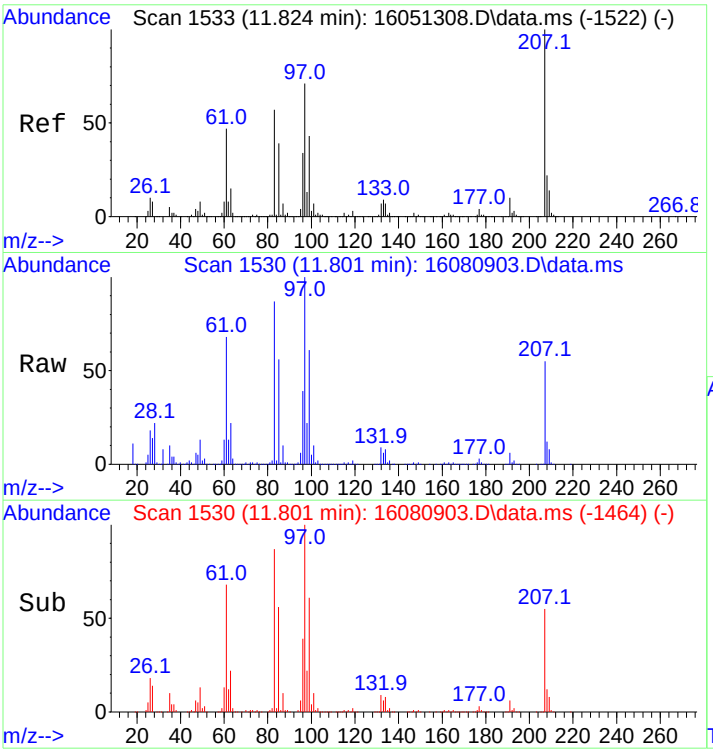


#33
Toluene
Concen: 199.74 ng
RT: 11.177 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 580260

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.6	73.0

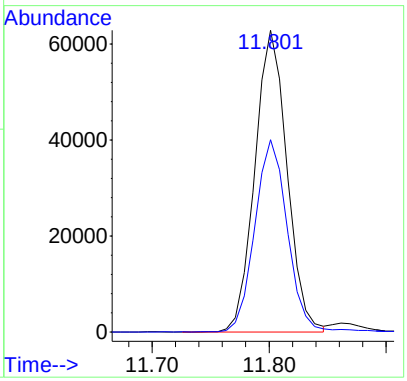


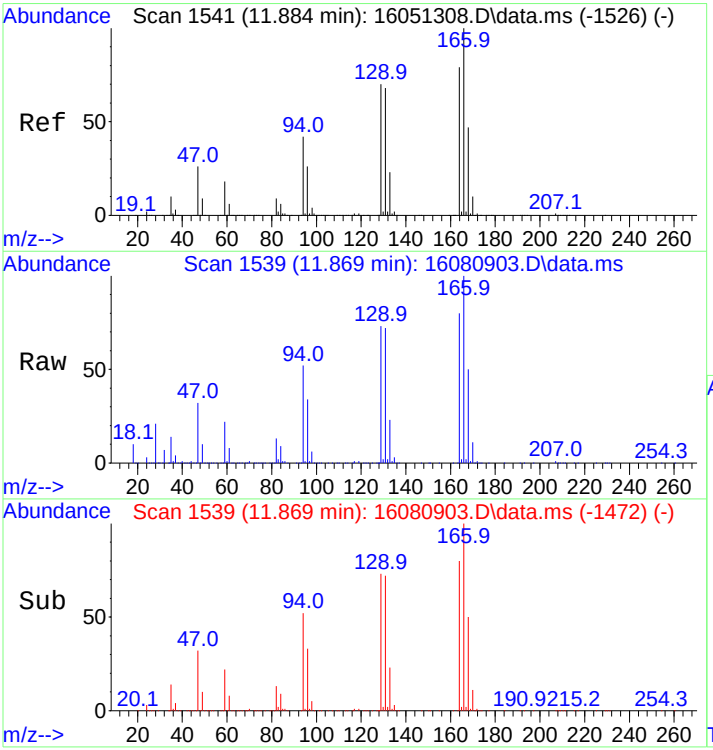


#34
1,1,2-Trichloroethane
Concen: 239.11 ng
RT: 11.801 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 120049

Ion	Ratio	Lower	Upper
83	100		
85	64.8	54.7	82.1

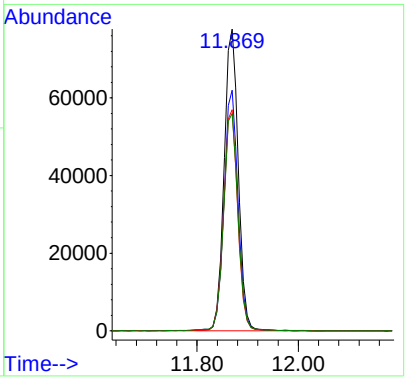


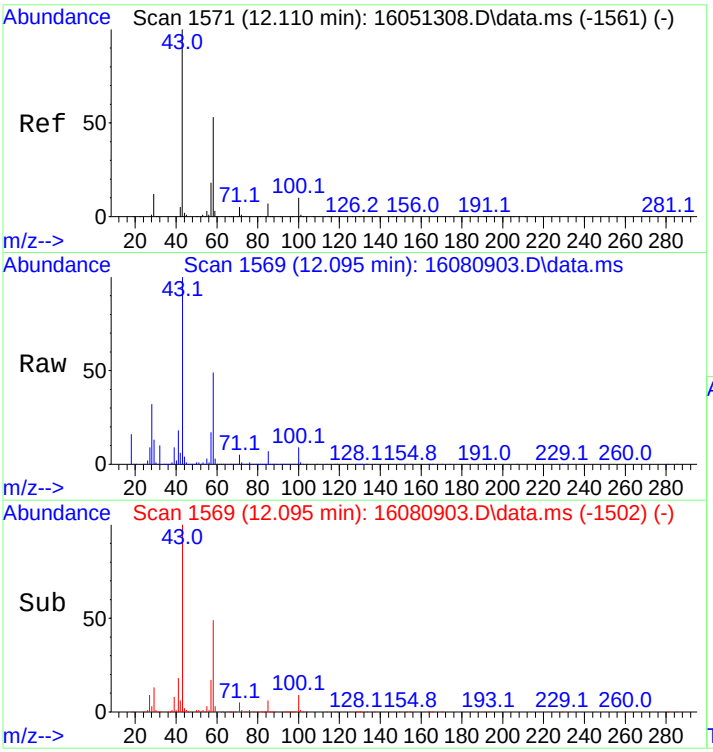


#35
Tetrachloroethene
Concen: 200.56 ng
RT: 11.869 min Scan# 1539
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:166 Resp: 152594

Ion	Ratio	Lower	Upper
166	100		
164	79.0	63.2	94.8
129	72.8	55.5	83.3
131	73.0	55.2	82.8

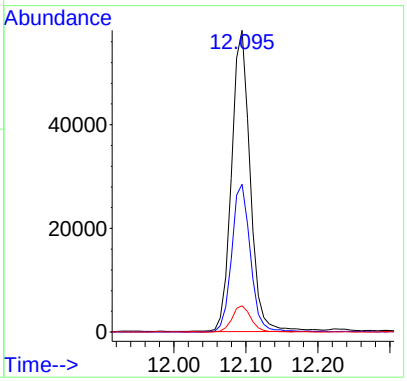


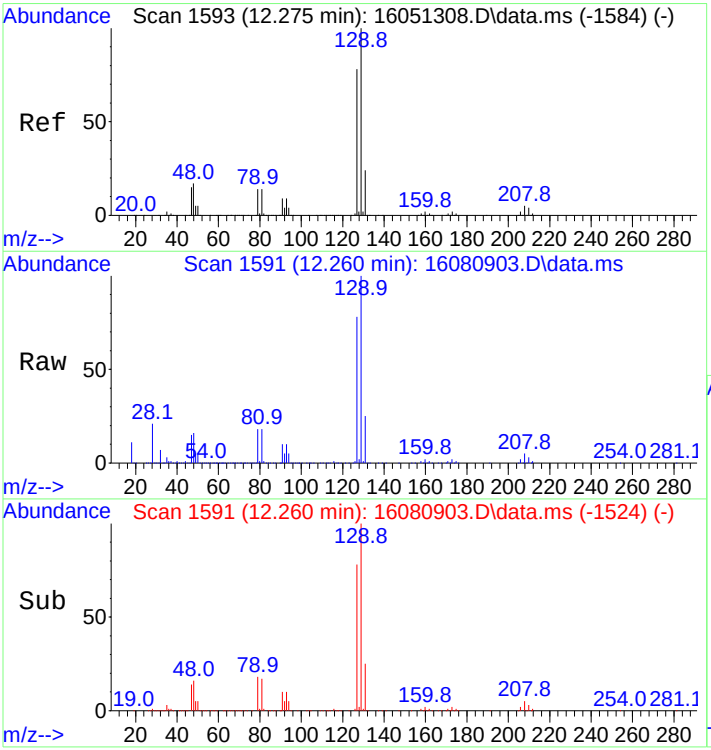


#36
2-Hexanone
Concen: 140.00 ng
RT: 12.095 min Scan# 1569
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 43 Resp: 104342

Ion	Ratio	Lower	Upper
43	100		
58	49.5	43.6	65.4
100	8.9	7.8	11.8

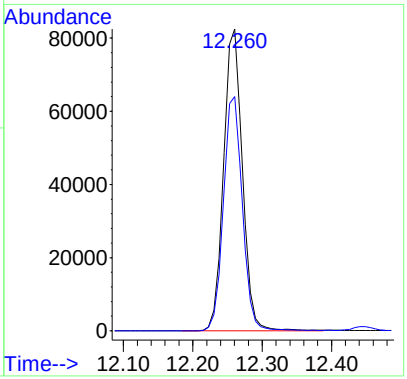


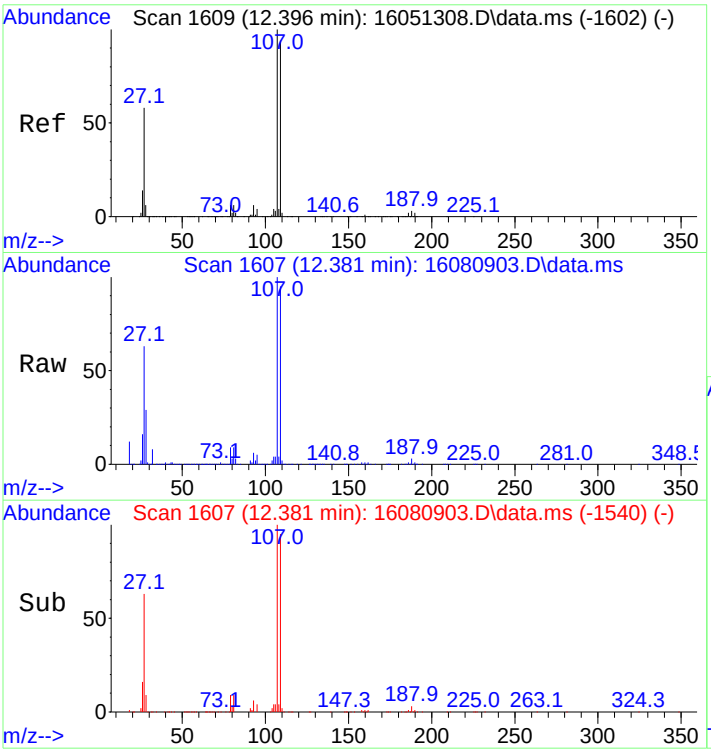


#37
Chlorodibromomethane
Concen: 228.13 ng
RT: 12.260 min Scan# 1591
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:129 Resp: 155347

Ion	Ratio	Lower	Upper
129	100		
127	78.1	62.3	93.5

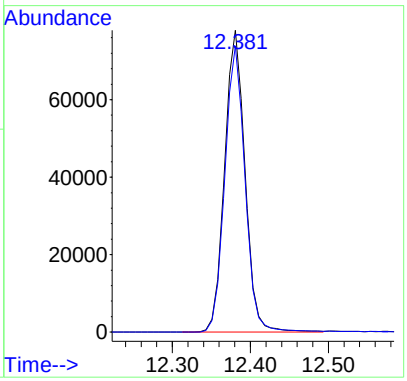


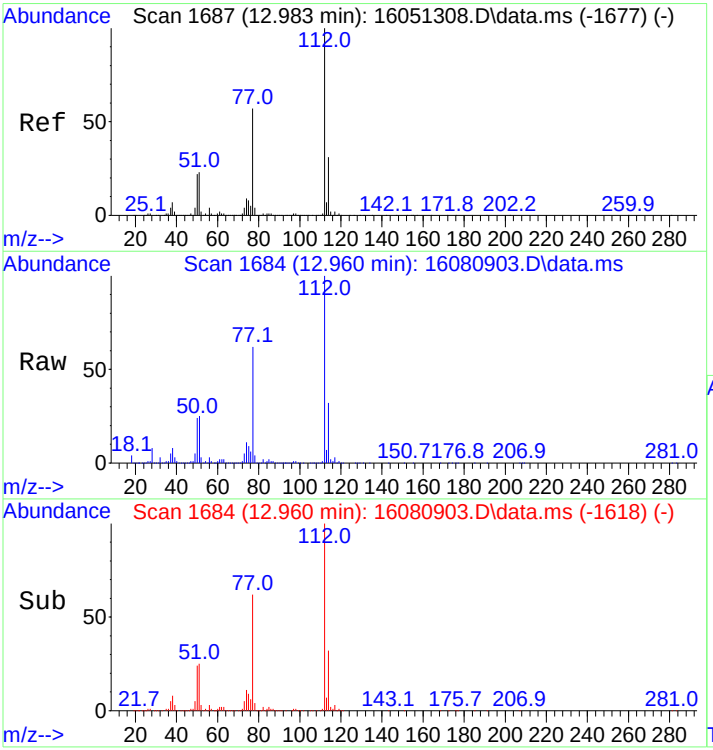


#38
Ethylene Dibromide
Concen: 228.06 ng
RT: 12.381 min Scan# 1607
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:107 Resp: 141758

Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.3	111.5

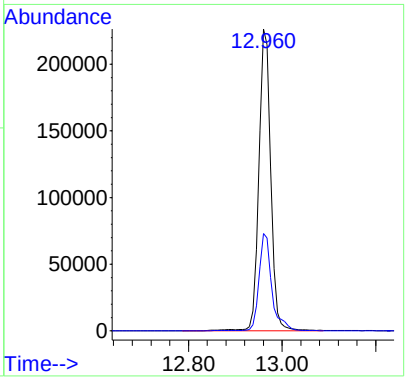


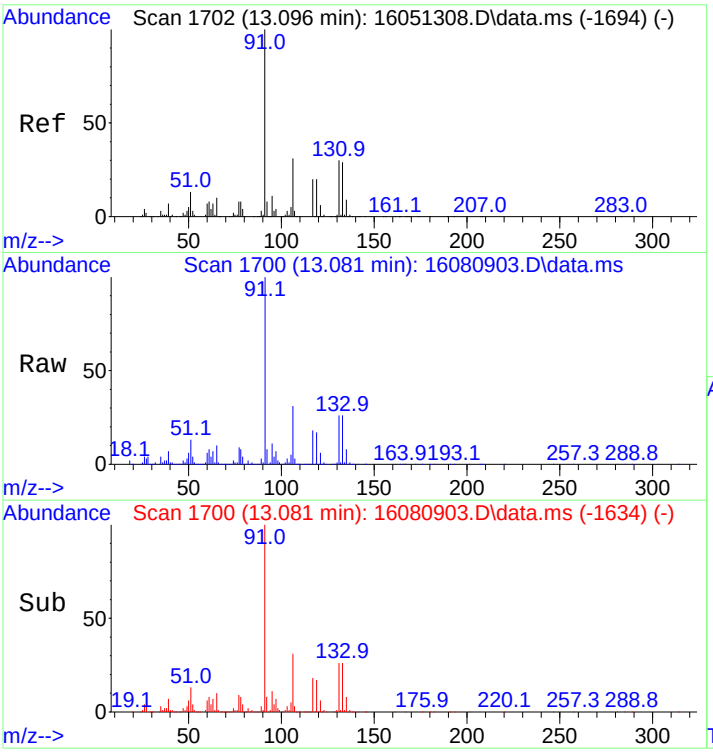


#39
Chlorobenzene
Concen: 222.92 ng
RT: 12.960 min Scan# 1684
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:112 Resp: 397944

Ion	Ratio	Lower	Upper
112	100		
114	34.7	27.5	41.3

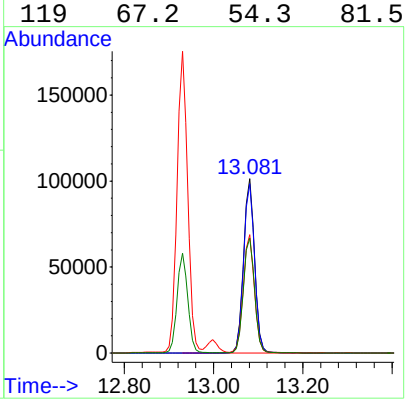


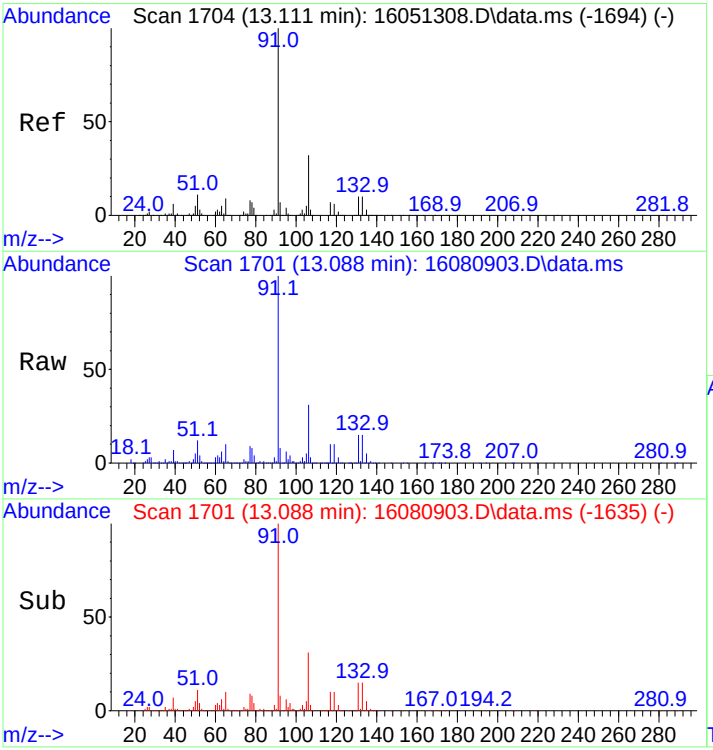


#40
1,1,1,2-Tetrachloroethane
Concen: 275.75 ng
RT: 13.081 min Scan# 1700
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:131 Resp: 174706

Ion	Ratio	Lower	Upper
131	100		
133	96.4	77.8	116.6
117	67.5	57.1	85.7
119	67.2	54.3	81.5

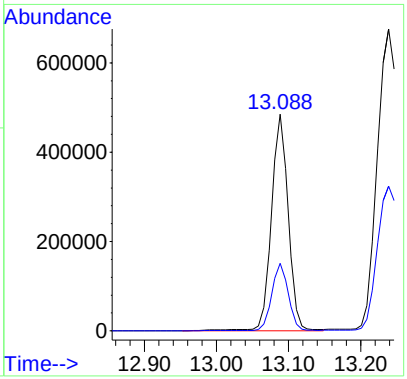


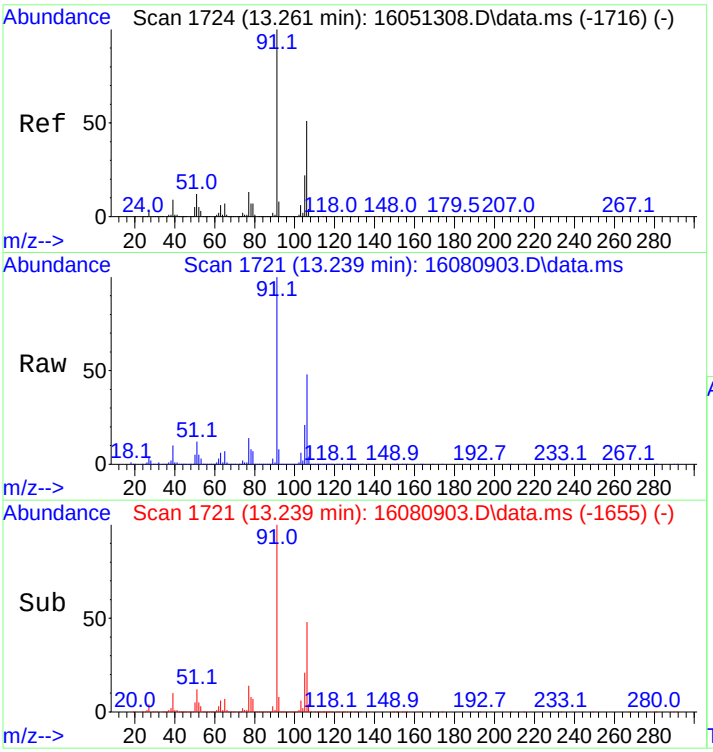


#41
Ethylbenzene
Concen: 238.08 ng
RT: 13.088 min Scan# 1701
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 785753

Ion	Ratio	Lower	Upper
91	100		
106	30.6	25.5	38.3

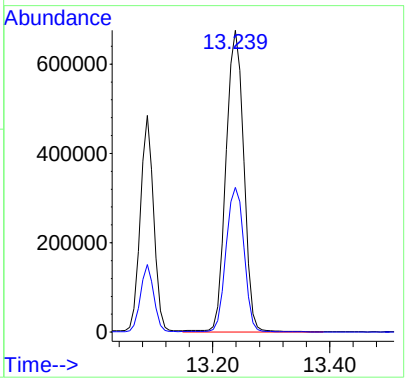


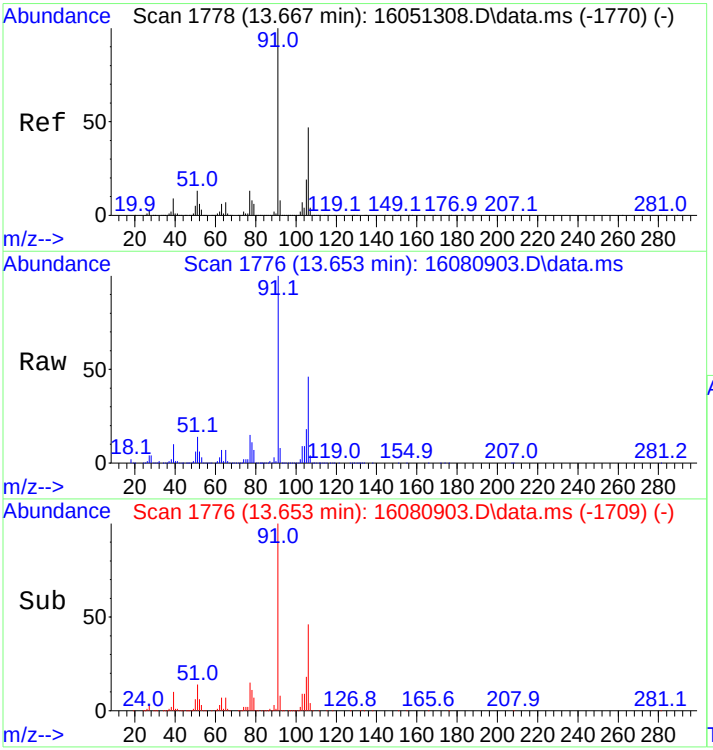


#42
M&P-Xylene
Concen: 509.31 ng
RT: 13.239 min Scan# 1721
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 1429442

Ion	Ratio	Lower	Upper
91	100		
106	48.6	40.4	60.6

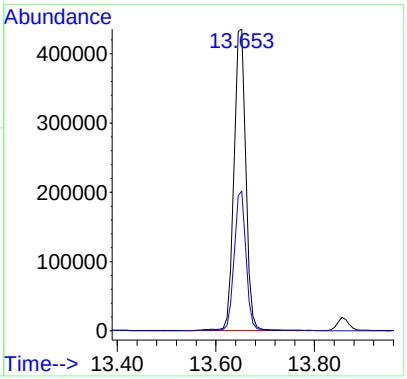


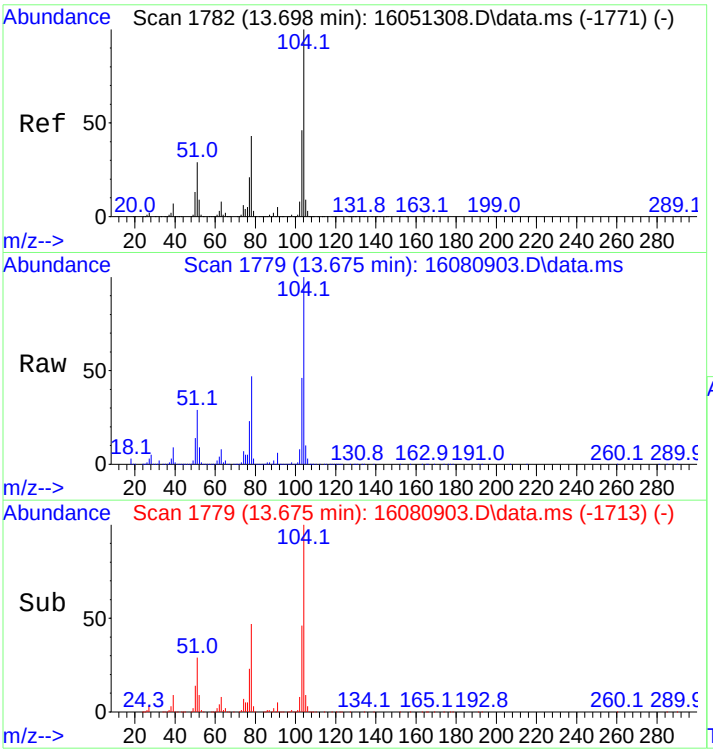


#43
O-Xylene
Concen: 249.52 ng
RT: 13.653 min Scan# 1776
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 725937

Ion	Ratio	Lower	Upper
91	100		
106	46.3	38.2	57.2

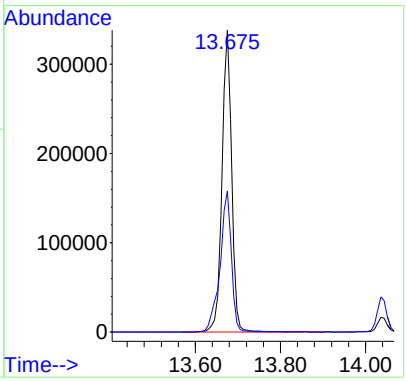


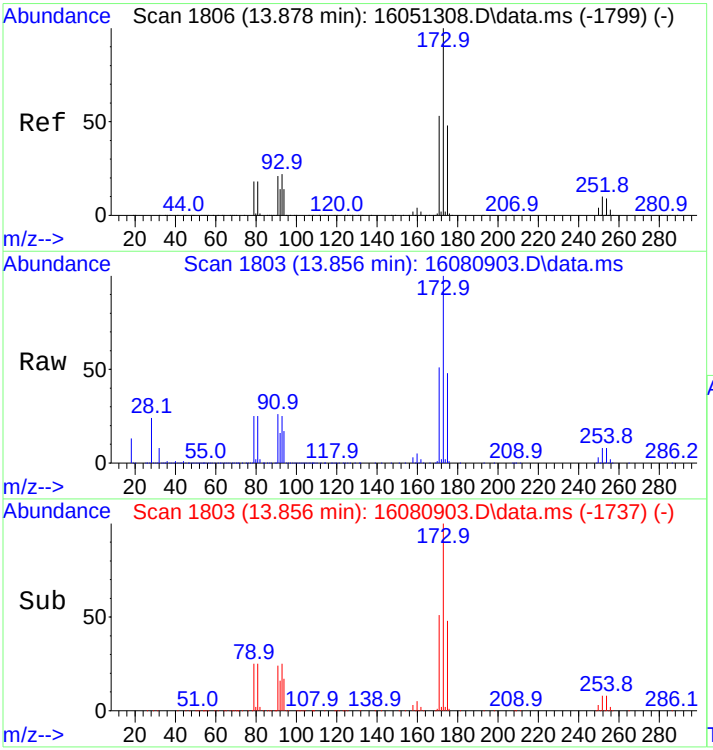


#44
Styrene
Concen: 215.85 ng
RT: 13.675 min Scan# 1779
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:104 Resp: 536046

Ion	Ratio	Lower	Upper
104	100		
78	54.9	39.8	59.6

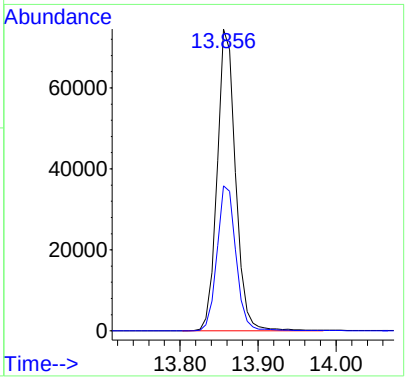


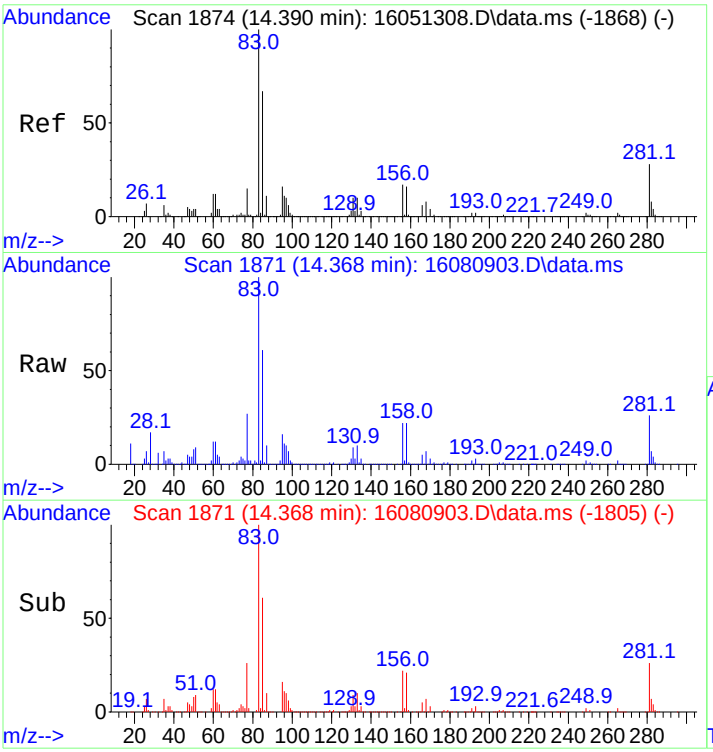


#45
Bromoform
Concen: 227.58 ng
RT: 13.856 min Scan# 1803
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:173 Resp: 122141

Ion	Ratio	Lower	Upper
173	100		
175	49.3	38.5	57.7

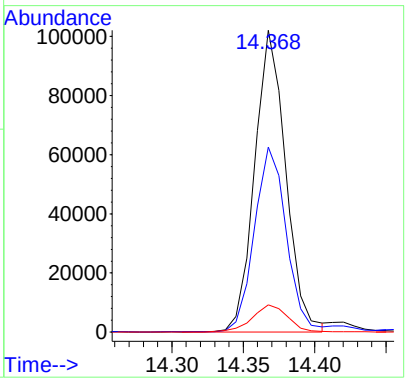


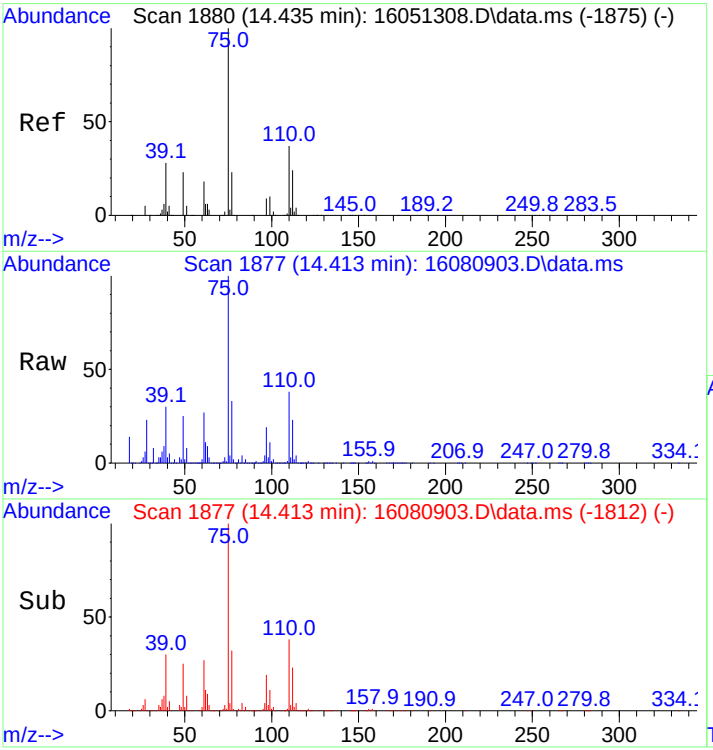


#46
1,1,2,2-Tetrachloroethane
Concen: 182.45 ng m
RT: 14.368 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 83 Resp: 154749

Ion	Ratio	Lower	Upper
83	100		
85	62.6	53.1	79.7
131	10.5	8.9	13.3

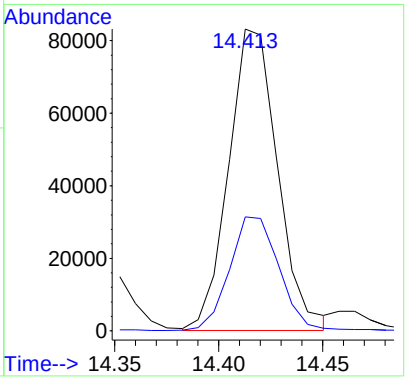


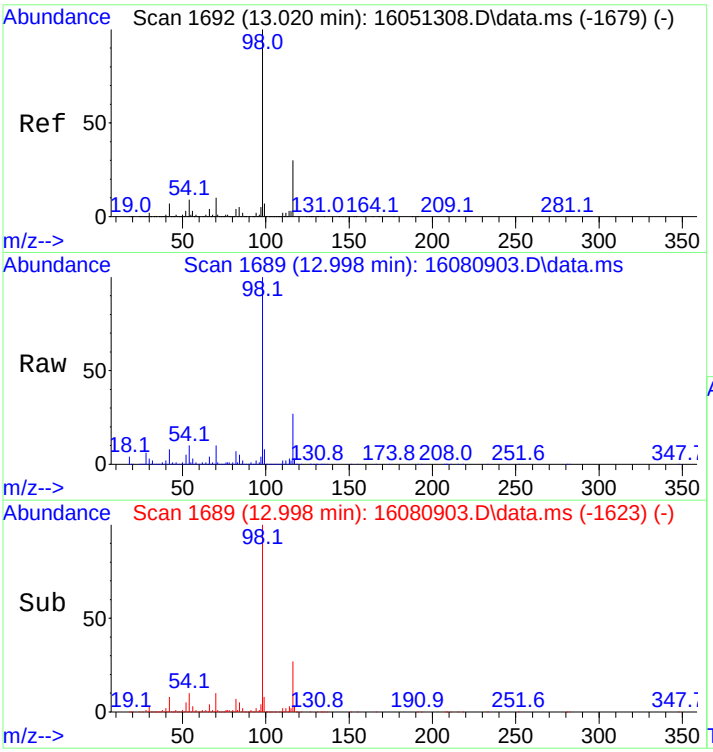


#47
1,2,3-Trichloropropane
Concen: 195.66 ng
RT: 14.413 min Scan# 1877
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 137088

Ion	Ratio	Lower	Upper
75	100		
110	38.6	30.5	45.7

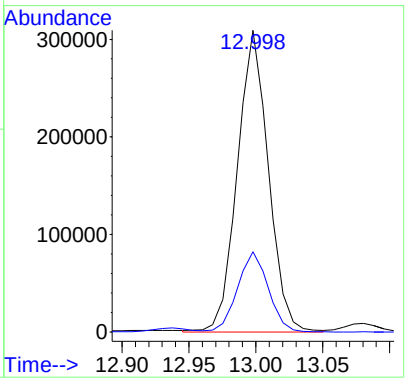


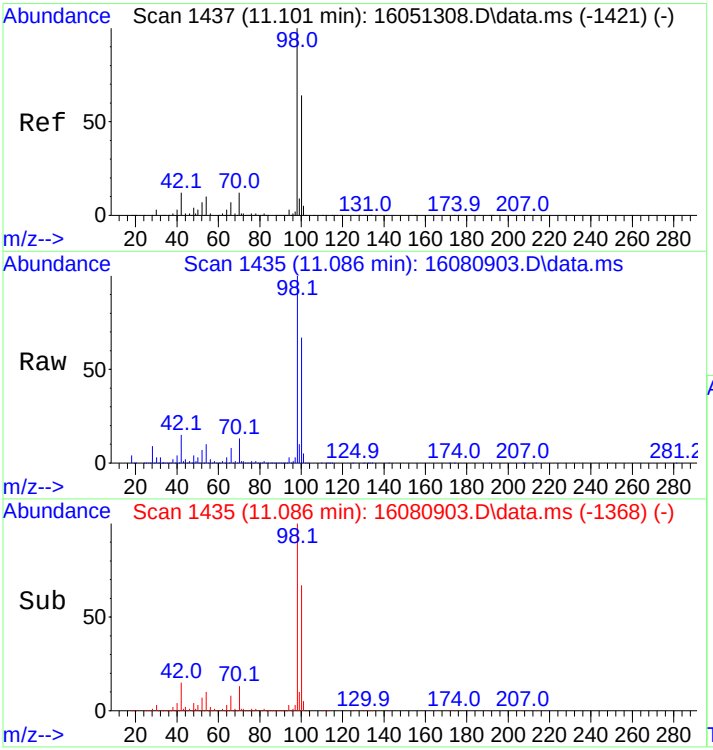


#48
d10-Ethylbenzene(SPK)
Concen: 248.68 ng
RT: 12.998 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 98 Resp: 500650

Ion	Ratio	Lower	Upper
98	100		
116	26.4	23.4	35.0

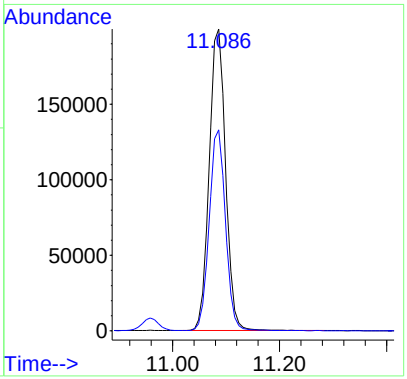


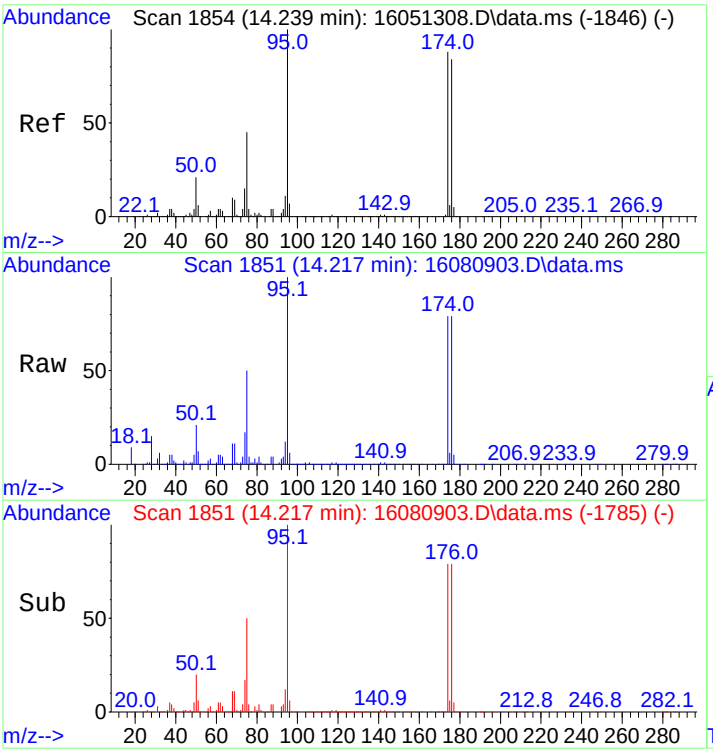


#49
d8-Toluene(SURR)
Concen: 244.13 ng
RT: 11.086 min Scan# 1435
Delta R.T. 0.008 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 98 Resp: 423609

Ion	Ratio	Lower	Upper
98	100		
100	66.3	56.0	84.0

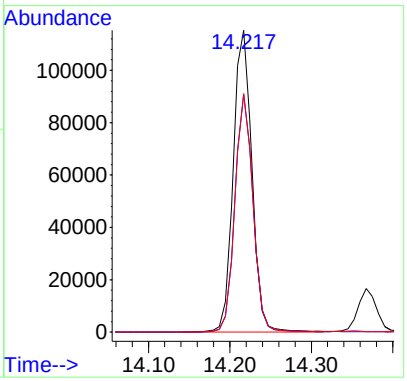


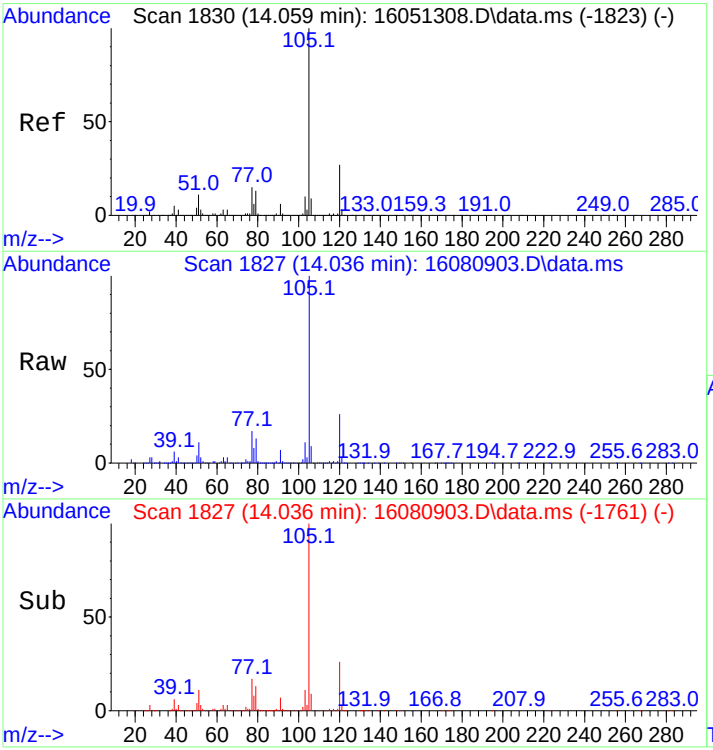


#50
4-Bromofluorobenzene(SURR)
Concen: 318.67 ng
RT: 14.217 min Scan# 1851
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 95 Resp: 183840

Ion	Ratio	Lower	Upper
95	100		
174	76.4	67.8	101.8
176	76.2	64.8	97.2

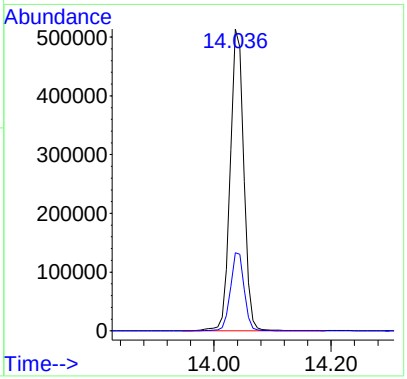


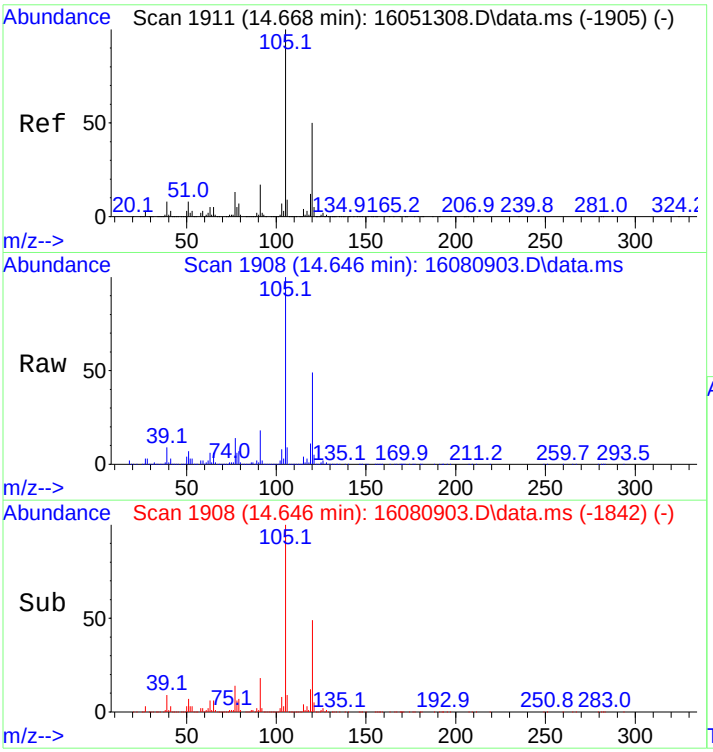


#51
Isopropylbenzene
Concen: 243.36 ng
RT: 14.036 min Scan# 1827
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 822870

Ion	Ratio	Lower	Upper
105	100		
120	26.3	21.4	32.2

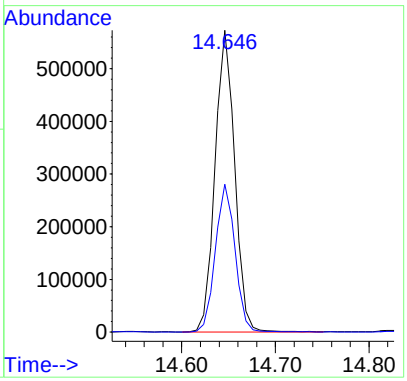


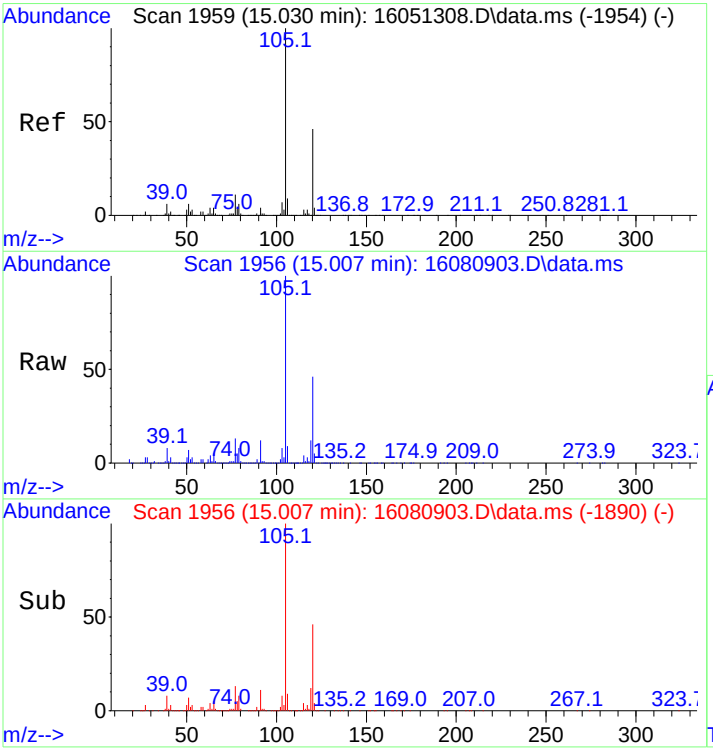


#52
1,3,5-Trimethylbenzene
Concen: 253.27 ng
RT: 14.646 min Scan# 1908
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 834582

Ion	Ratio	Lower	Upper
105	100		
120	49.1	39.9	59.9

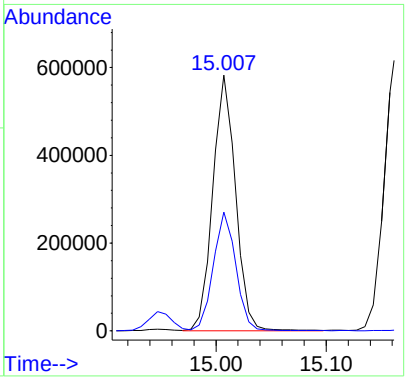


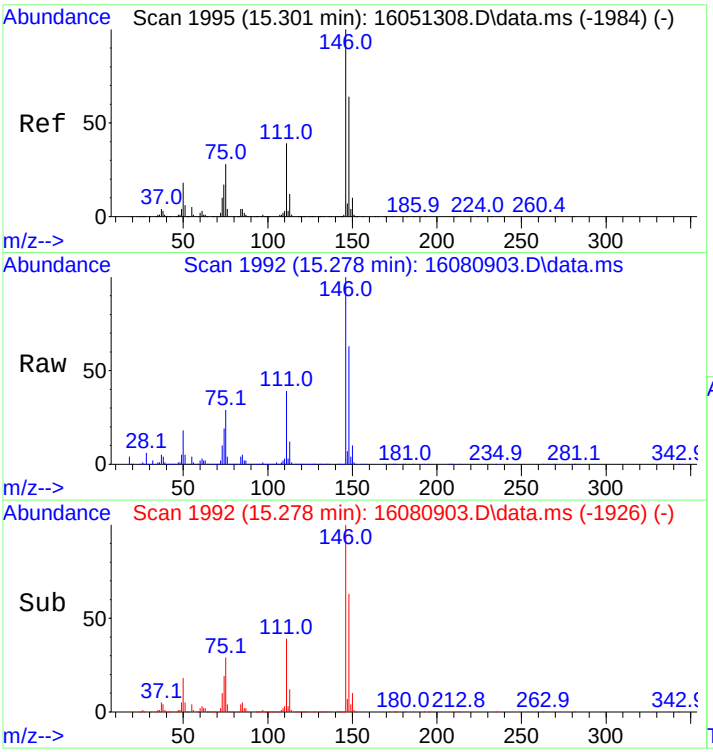


#53
1,2,4-Trimethylbenzene
Concen: 256.64 ng
RT: 15.007 min Scan# 1956
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 835037

Ion	Ratio	Lower	Upper
105	100		
120	46.2	37.5	56.3

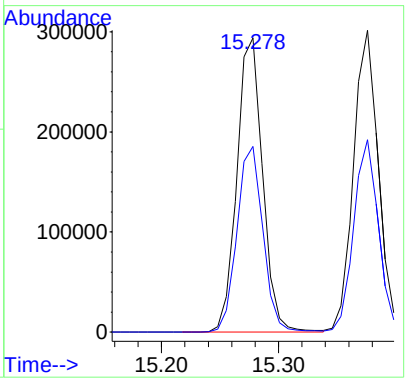


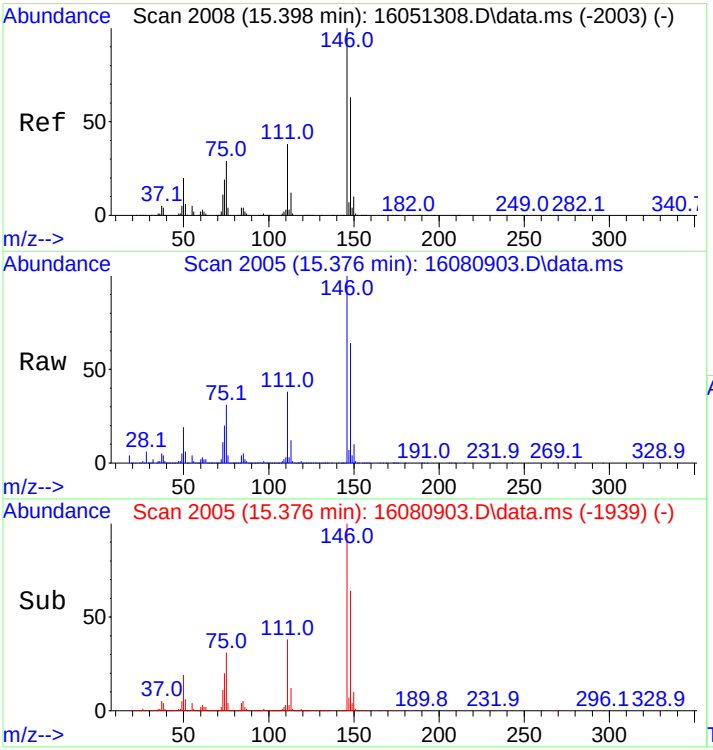


#54
1,3-Dichlorobenzene
Concen: 263.63 ng
RT: 15.278 min Scan# 1992
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:146 Resp: 447670

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.6	76.0

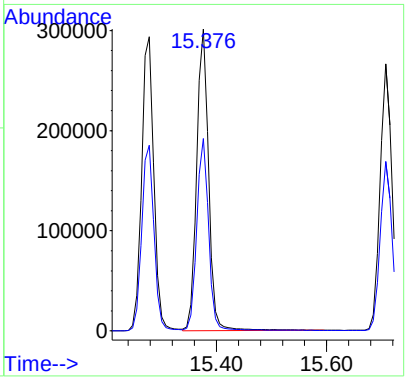


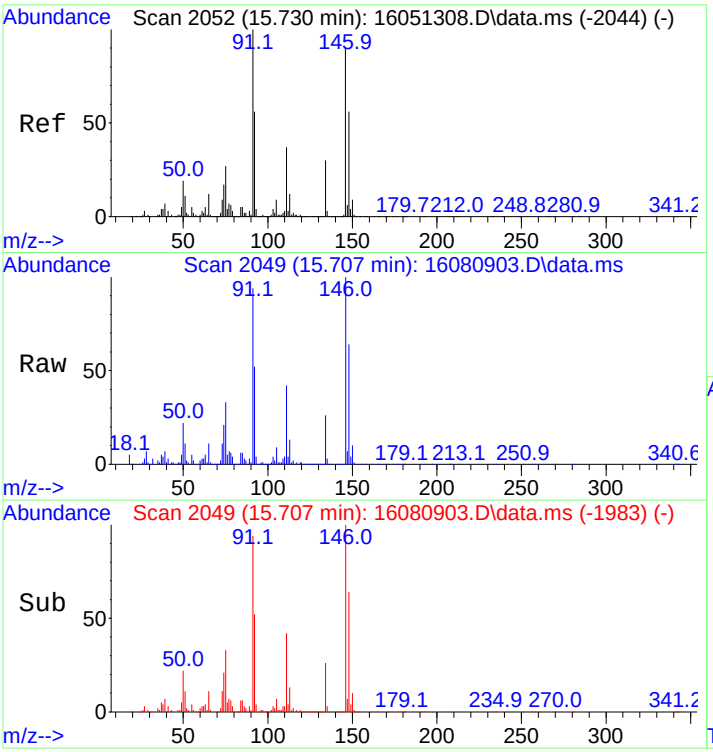


#55
1,4-Dichlorobenzene
Concen: 254.17 ng
RT: 15.376 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:146 Resp: 456207

Ion	Ratio	Lower	Upper
146	100		
148	62.7	49.9	74.9

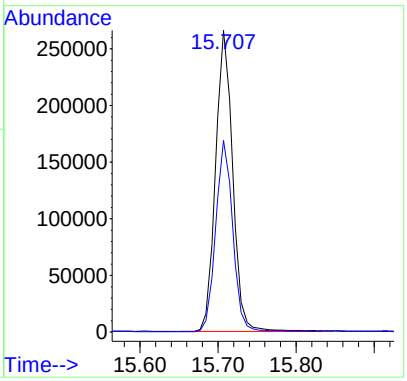


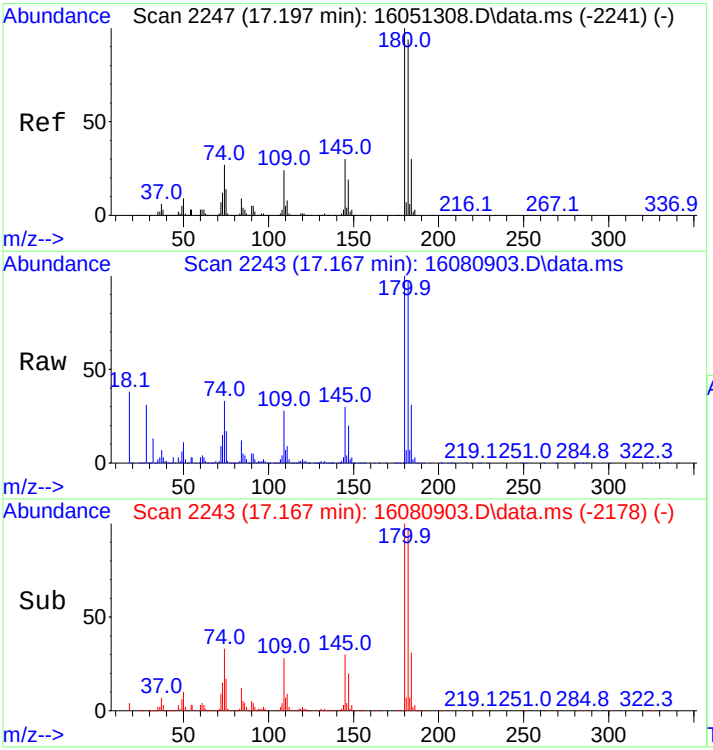


#56
1,2-Dichlorobenzene
Concen: 252.36 ng
RT: 15.707 min Scan# 2049
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:146 Resp: 405317

Ion	Ratio	Lower	Upper
146	100		
148	63.5	49.9	74.9

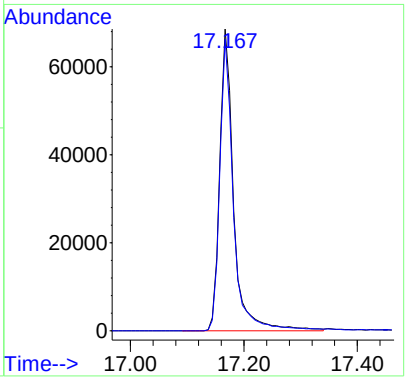


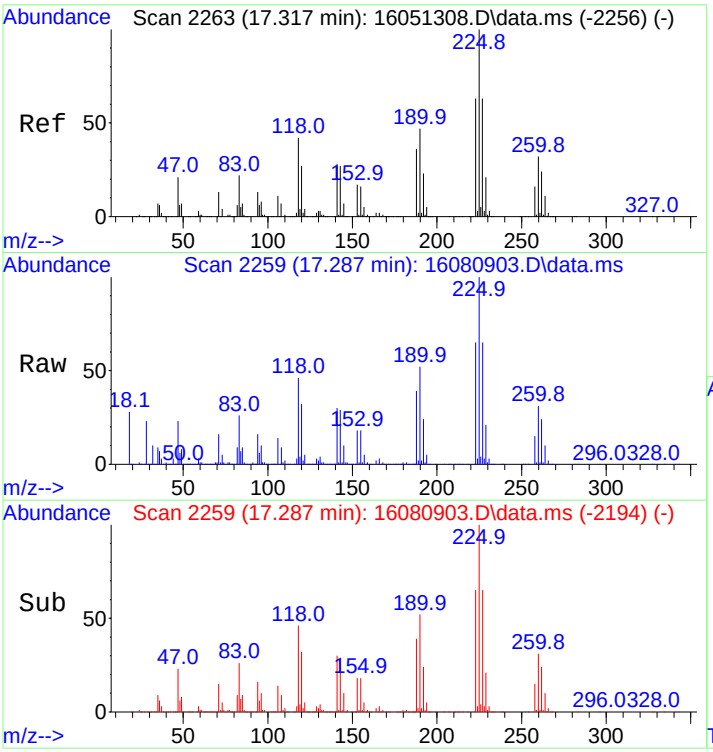


#57
1,2,4-Trichlorobenzene
Concen: 86.20 ng
RT: 17.167 min Scan# 2243
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:180 Resp: 117417

Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.0	112.4

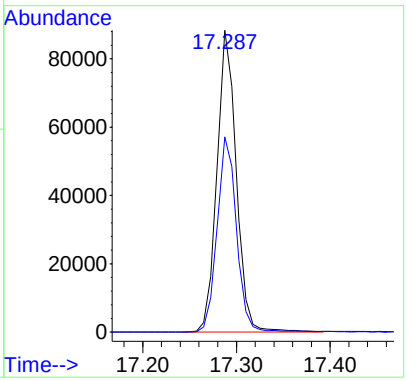


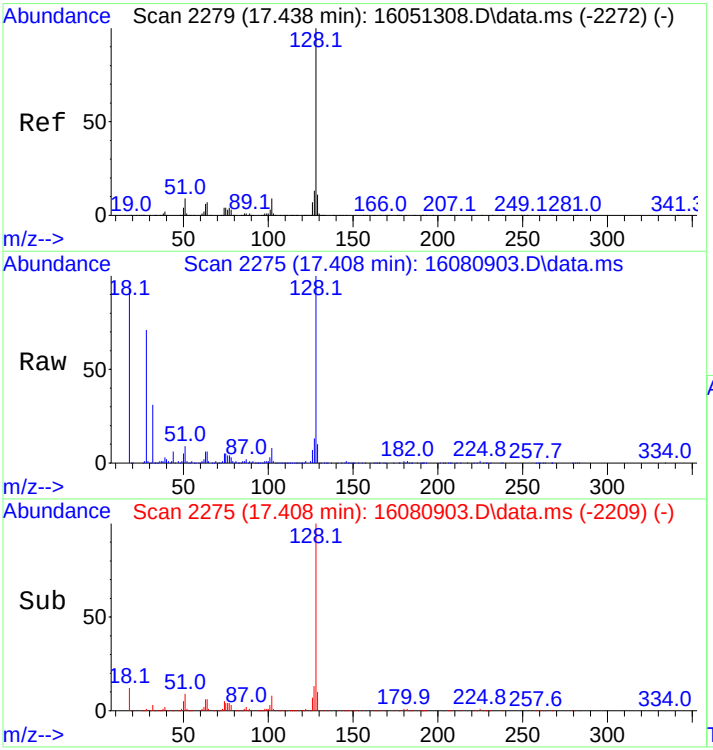


#58
Hexachlorobutadiene
Concen: 177.43 ng
RT: 17.287 min Scan# 2259
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:225 Resp: 127046

Ion	Ratio	Lower	Upper
225	100		
227	65.0	51.1	76.7

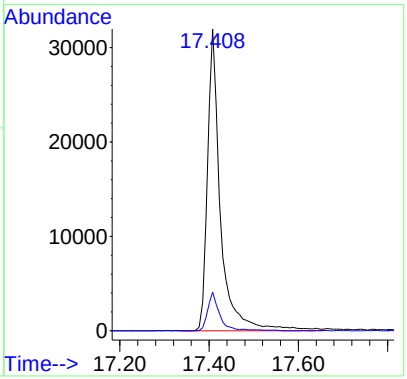


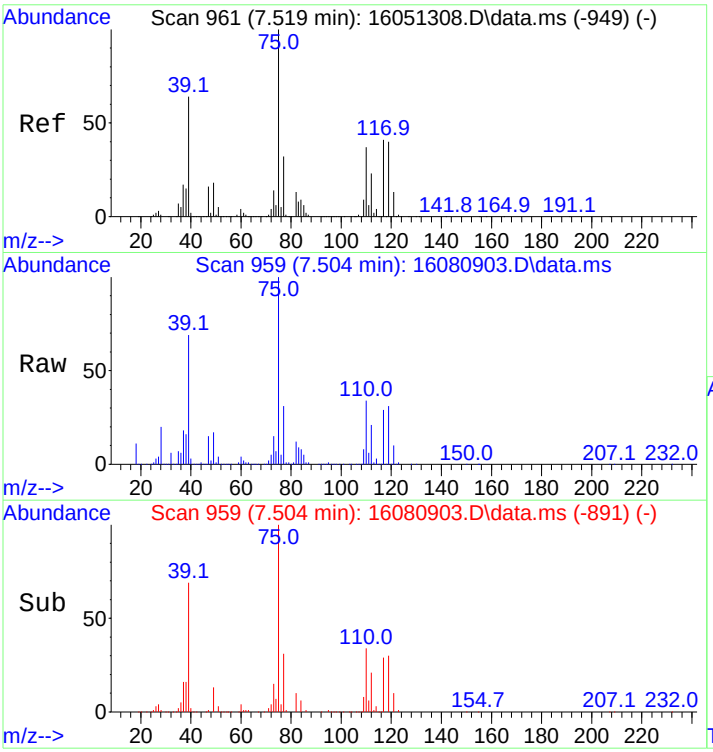


#59
Naphthalene
Concen: 19.33 ng
RT: 17.408 min Scan# 2275
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:128 Resp: 64620

Ion	Ratio	Lower	Upper
128	100		
127	11.7	9.8	14.8

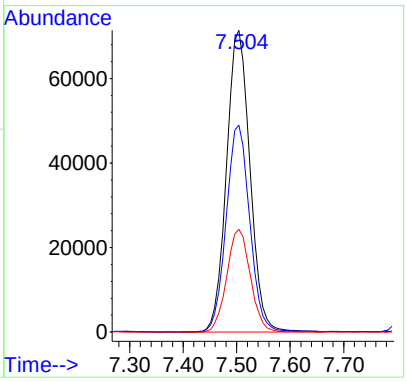


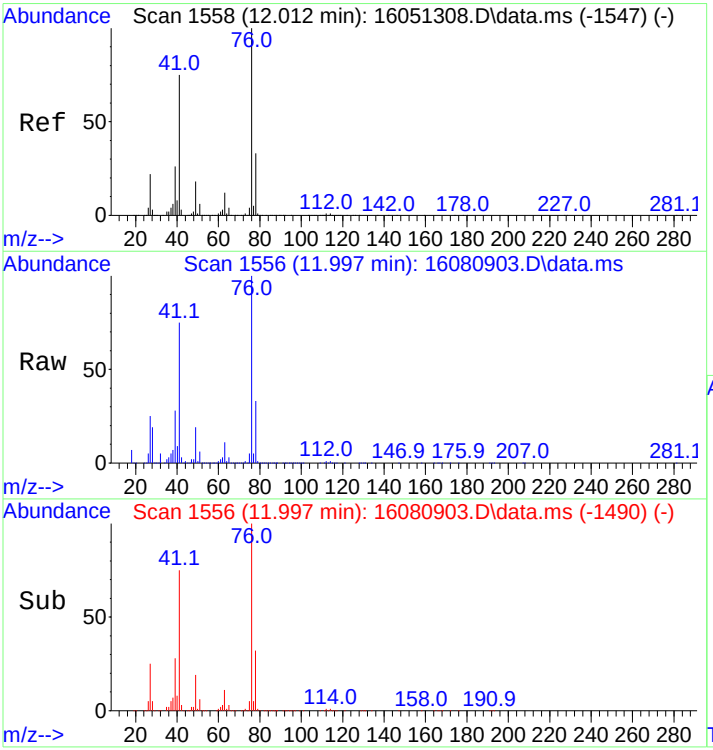


#60
1,1-Dichloropropene
Concen: 234.20 ng
RT: 7.504 min Scan# 959
Delta R.T. 0.015 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 75 Resp: 218016

Ion	Ratio	Lower	Upper
75	100		
39	68.9	51.8	77.6
110	34.3	29.3	43.9

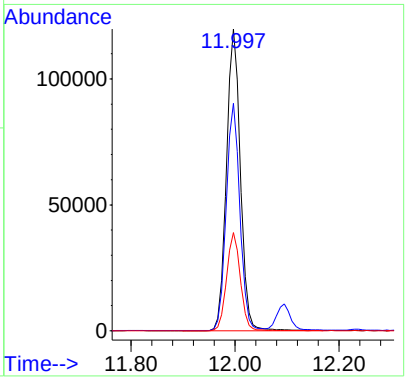


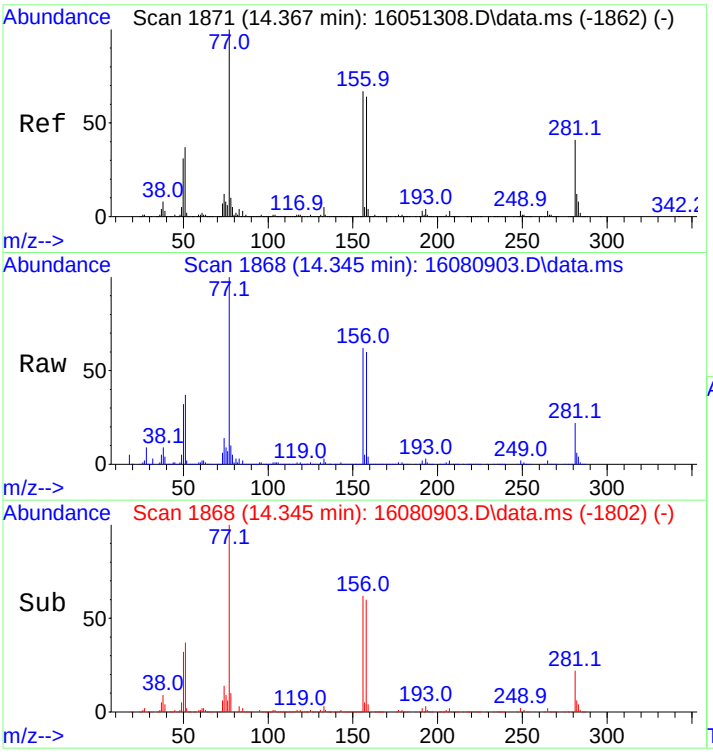


#61
1,3-Dichloropropane
Concen: 214.57 ng
RT: 11.997 min Scan# 1556
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 76 Resp: 222775

Ion	Ratio	Lower	Upper
76	100		
41	73.5	58.2	87.4
78	32.3	26.1	39.1

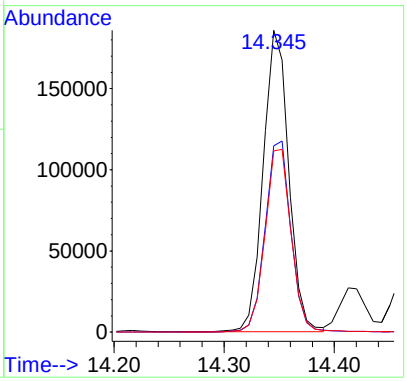


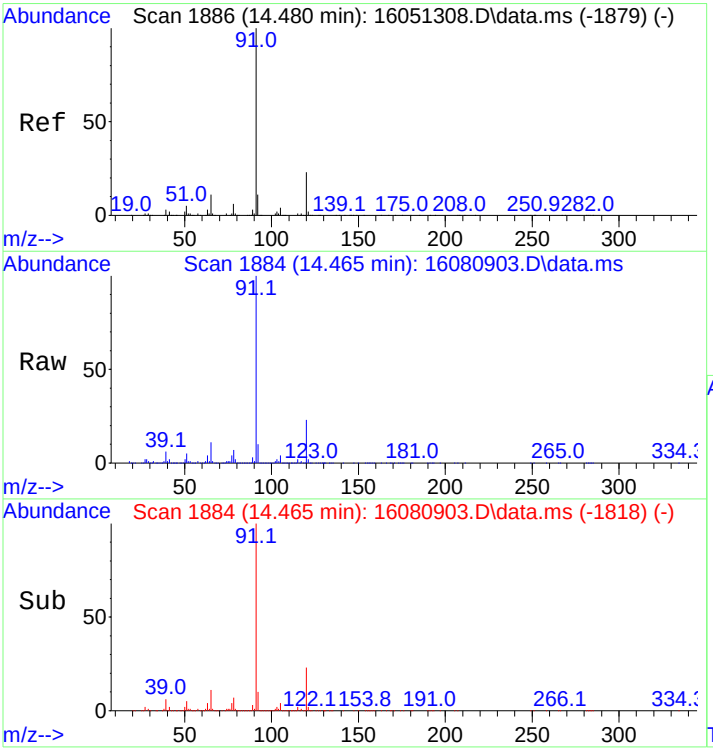


#62
Bromobenzene
Concen: 247.66 ng
RT: 14.345 min Scan# 1868
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 77 Resp: 298009

Ion	Ratio	Lower	Upper
77	100		
156	64.6	55.0	82.4
158	62.7	53.3	79.9

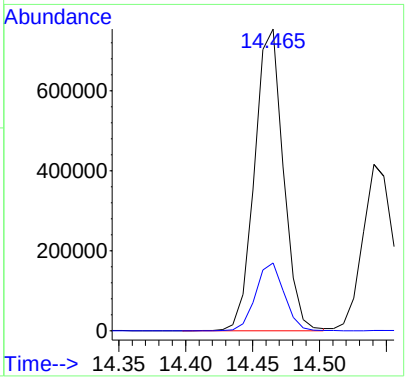


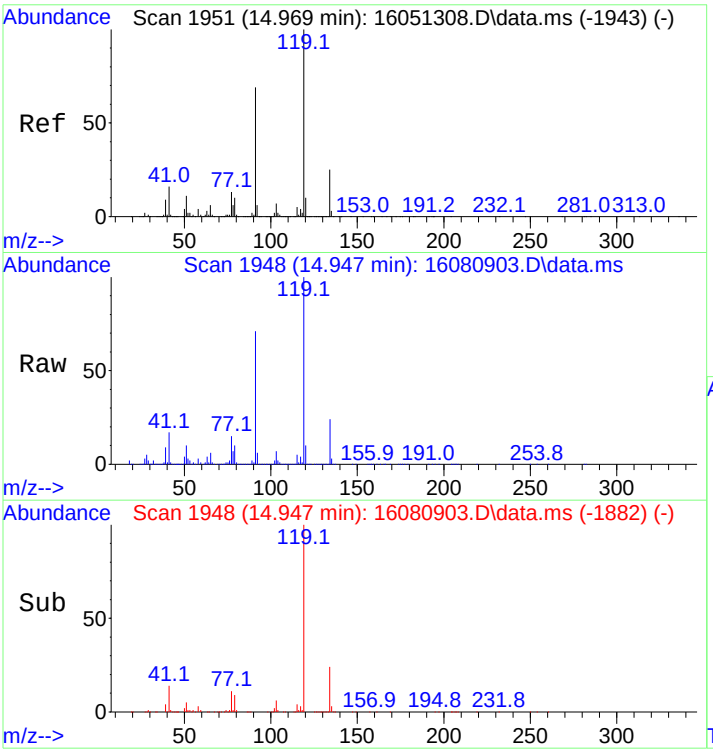


#63
n-Propylbenzene
Concen: 263.91 ng
RT: 14.465 min Scan# 1884
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 1129295

Ion	Ratio	Lower	Upper
91	100		
120	22.4	18.6	28.0

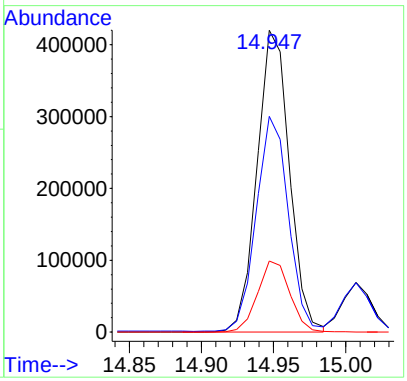


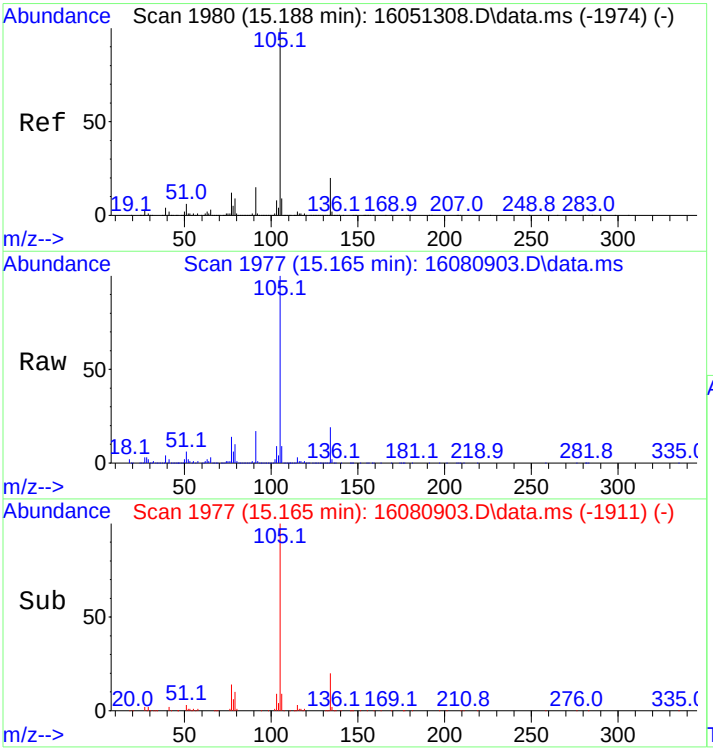


#64
tert-Butylbenzene
Concen: 255.36 ng
RT: 14.947 min Scan# 1948
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:119 Resp: 654126

Ion	Ratio	Lower	Upper
119	100		
91	70.8	54.0	81.0
134	23.6	19.9	29.9

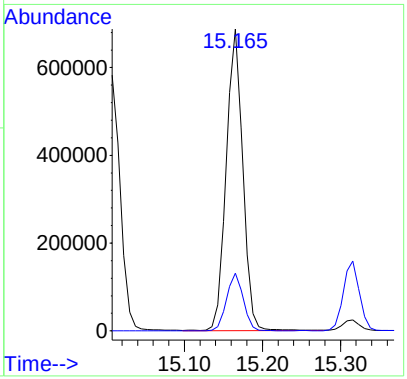


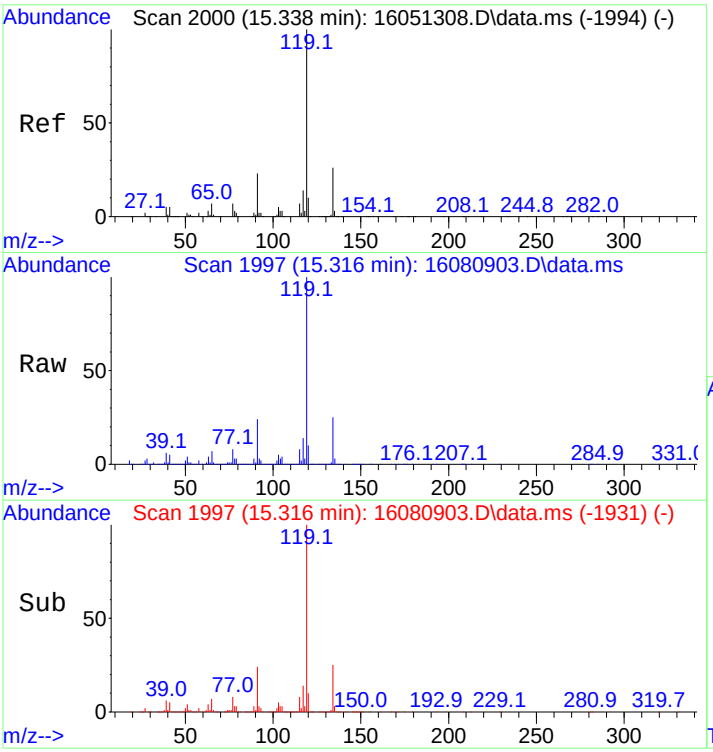


#65
sec-Butylbenzene
Concen: 257.72 ng
RT: 15.165 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:105 Resp: 1017312

Ion	Ratio	Lower	Upper
105	100		
134	19.2	15.7	23.5

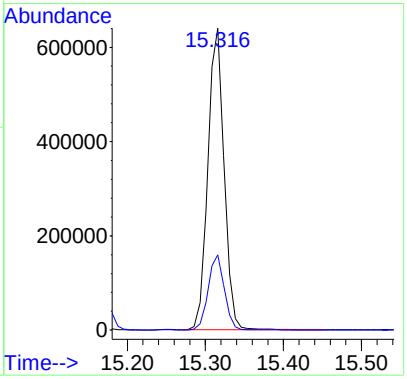


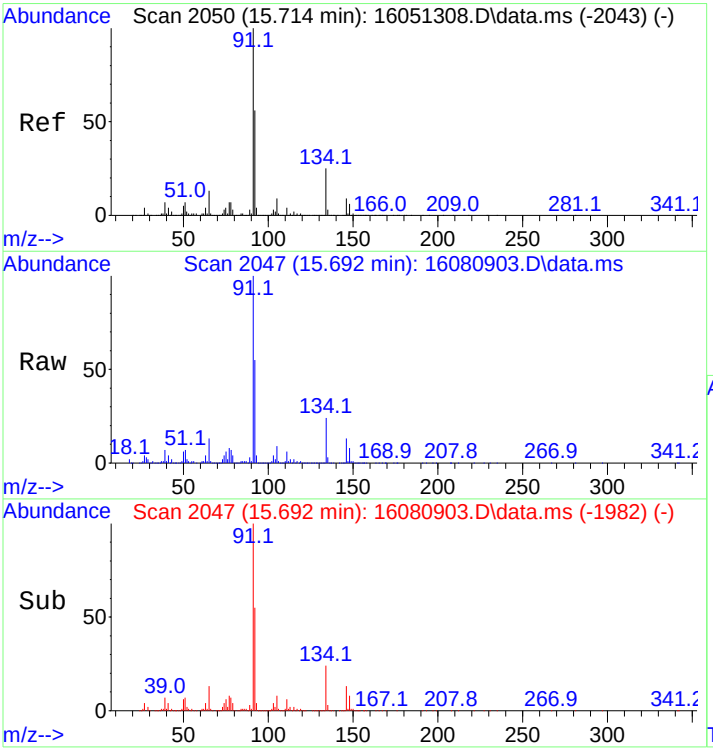


#66
p-Isopropyltoluene
Concen: 265.38 ng
RT: 15.316 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:119 Resp: 923529

Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.6	31.0

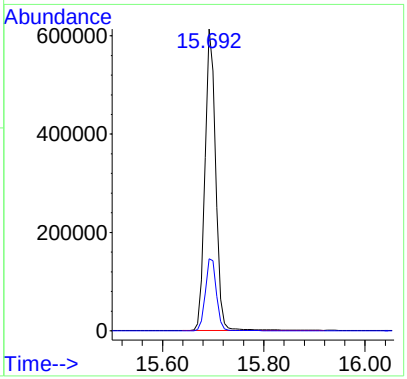


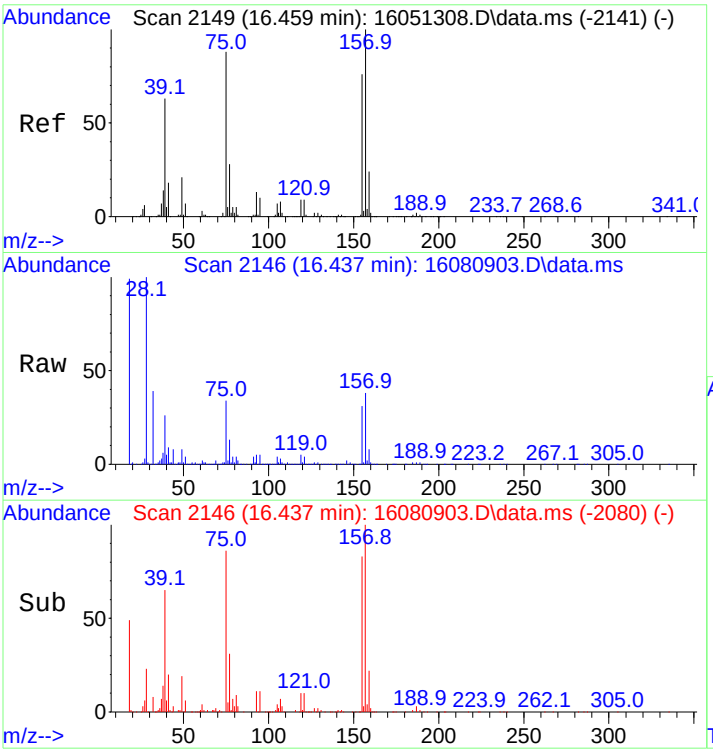


#67
n-Butylbenzene
Concen: 265.52 ng
RT: 15.692 min Scan# 2047
Delta R.T. -0.007 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion: 91 Resp: 893295

Ion	Ratio	Lower	Upper
91	100		
134	24.7	21.0	31.6

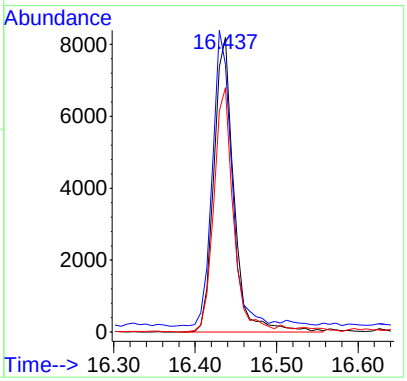




#68
1,2-Dibromo-3-chloropropane
Concen: 66.85 ng
RT: 16.437 min Scan# 2146
Delta R.T. 0.000 min
Lab File: 16080903.D
Acq: 9 Aug 2016 10:50 am

Tgt Ion:157 Resp: 14123

Ion	Ratio	Lower	Upper
157	100		
75	96.8	68.6	103.0
155	80.4	62.2	93.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160809\
Data File : 16080904.D
Acq On : 9 Aug 2016 12:14 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 14:40:32 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.729	130	131097	250.00 ng	0.00
20) 1,4-Difluorobenzene	8.663	114	482170	250.00 ng	0.00
32) d5-Chlorobenzene	12.930	117	396607	250.00 ng	0.00
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.820	65	199426	305.35 ng	0.00
Spiked Amount 250.000			Recovery	= 122.14%	
48) d10-Ethylbenzene(SPK)	12.998	98	617865	226.64 ng	0.00
Spiked Amount 200.000			Recovery	= 113.32%	
49) d8-Toluene(SURR)	11.079	98	592610	252.22 ng	0.00
Spiked Amount 250.000			Recovery	= 100.89%	
50) 4-Bromofluorobenzene(S...	14.217	95	215413	275.75 ng	0.00
Spiked Amount 250.000			Recovery	= 110.30%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.717	85	194210	223.30 ng	100
3) Chloromethane	1.905	50	222957	216.16 ng	100
4) Vinyl Chloride	2.010	62	277893	224.17 ng	98
5) Bromomethane	2.356	94	117073	212.49 ng	100
6) Chloroethane	2.462	64	144417	223.75 ng	97
7) Trichlorofluoromethane	2.740	101	413722	223.74 ng	99
8) 1,1-Dichloroethene	3.357	61	487889	218.92 ng	97
9) Acetone	3.395	43	134695	162.39 ng	95
11) Carbon disulfide	3.628	76	686256	196.70 ng	100
12) Methylene Chloride	4.050	49	311862	202.21 ng	90
13) trans,1,2-Dichloroethene	4.479	61	357146	241.42 ng	95
14) 1,1-Dichloroethane	5.254	63	423762	230.96 ng	98
16) cis,1,2-Dichloroethene	6.300	61	363544	212.04 ng	94
17) 2-Butanone	6.300	43	85670	144.46 ng	95
18) Chloroform	6.955	83	417761	242.71 ng	97
19) 1,1,1-Trichloroethane	7.195	97	196696	199.84 ng	98
22) Carbon Tetrachloride	7.466	117	268609	291.60 ng	97
23) Benzene	7.835	78	805768	230.84 ng	99
24) 1,2-Dichloroethane	7.956	62	274666	274.87 ng	98
25) Trichloroethene	9.039	95	224361	286.70 ng	94
26) 1,2-Dichloropropane	9.491	63	191137	238.89 ng	99
27) Dibromomethane	9.634	93	129480	288.91 ng	95
28) Bromodichloromethane	9.987	83	258731	296.97 ng	98
29) cis,1,3-Dichloropropene	10.710	75	224558	251.59 ng	99
30) trans,1,3-Dichloropropene	11.553	75	169471	279.17 ng	98
31) 4-Methyl-2-Pentanone	10.951	43	277966	235.91 ng	97
33) Toluene	11.177	91	849087	215.84 ng	98
34) 1,1,2-Trichloroethane	11.801	83	156737	230.55 ng	97
35) Tetrachloroethene	11.861	166	232581	225.75 ng	98
36) 2-Hexanone	12.095	43	193397	191.63 ng	96
37) Chlorodibromomethane	12.260	129	211756	229.64 ng	100
38) Ethylene Dibromide	12.381	107	178056	211.54 ng	100
39) Chlorobenzene	12.960	112	559107	231.30 ng	100
40) 1,1,1,2-Tetrachloroethane	13.081	131	204678	238.58 ng	98
41) Ethylbenzene	13.088	91	996927	223.08 ng	99
42) M&P-Xylene	13.239	91	1686660	443.80 ng	98
43) O-Xylene	13.645	91	859525	218.18 ng	99
44) Styrene	13.675	104	658253	195.74 ng	94
45) Bromoform	13.863	173	163029	224.33 ng	99
46) 1,1,2,2-Tetrachloroethane	14.367	83	232288m	202.25 ng	
47) 1,2,3-Trichloropropane	14.413	75	187160m	197.27 ng	
51) Isopropylbenzene	14.036	105	1001563	218.75 ng	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160809\
Data File : 16080904.D
Acq On : 9 Aug 2016 12:14 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 14:40:32 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3,5-Trimethylbenzene	14.646	105	941133	210.91 ng	100
53) 1,2,4-Trimethylbenzene	15.007	105	942808	213.99 ng	100
54) 1,3-Dichlorobenzene	15.278	146	523110	227.50 ng	100
55) 1,4-Dichlorobenzene	15.376	146	528041	217.26 ng	98
56) 1,2-Dichlorobenzene	15.707	146	484342	222.70 ng	98
57) 1,2,4-Trichlorobenzene	17.167	180	184556	100.05 ng	99
58) Hexachlorobutadiene	17.287	225	175691	181.20 ng	100
59) Naphthalene	17.408	128	137094	30.28 ng	100
60) 1,1-Dichloropropene	7.496	75	279625	221.84 ng	98
61) 1,3-Dichloropropane	11.997	76	291616	207.43 ng	99
62) Bromobenzene	14.345	77	378328	232.19 ng	97
63) n-Propylbenzene	14.465	91	1304658	225.16 ng	99
64) tert-Butylbenzene	14.954	119	766344	220.94 ng	98
65) sec-Butylbenzene	15.165	105	1166159	218.17 ng	99
66) p-Isopropyltoluene	15.316	119	1040003	220.70 ng	99
67) n-Butylbenzene	15.692	91	989699	217.25 ng	97
68) 1,2-Dibromo-3-chloropr...	16.437	157	25450	88.97 ng	94

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

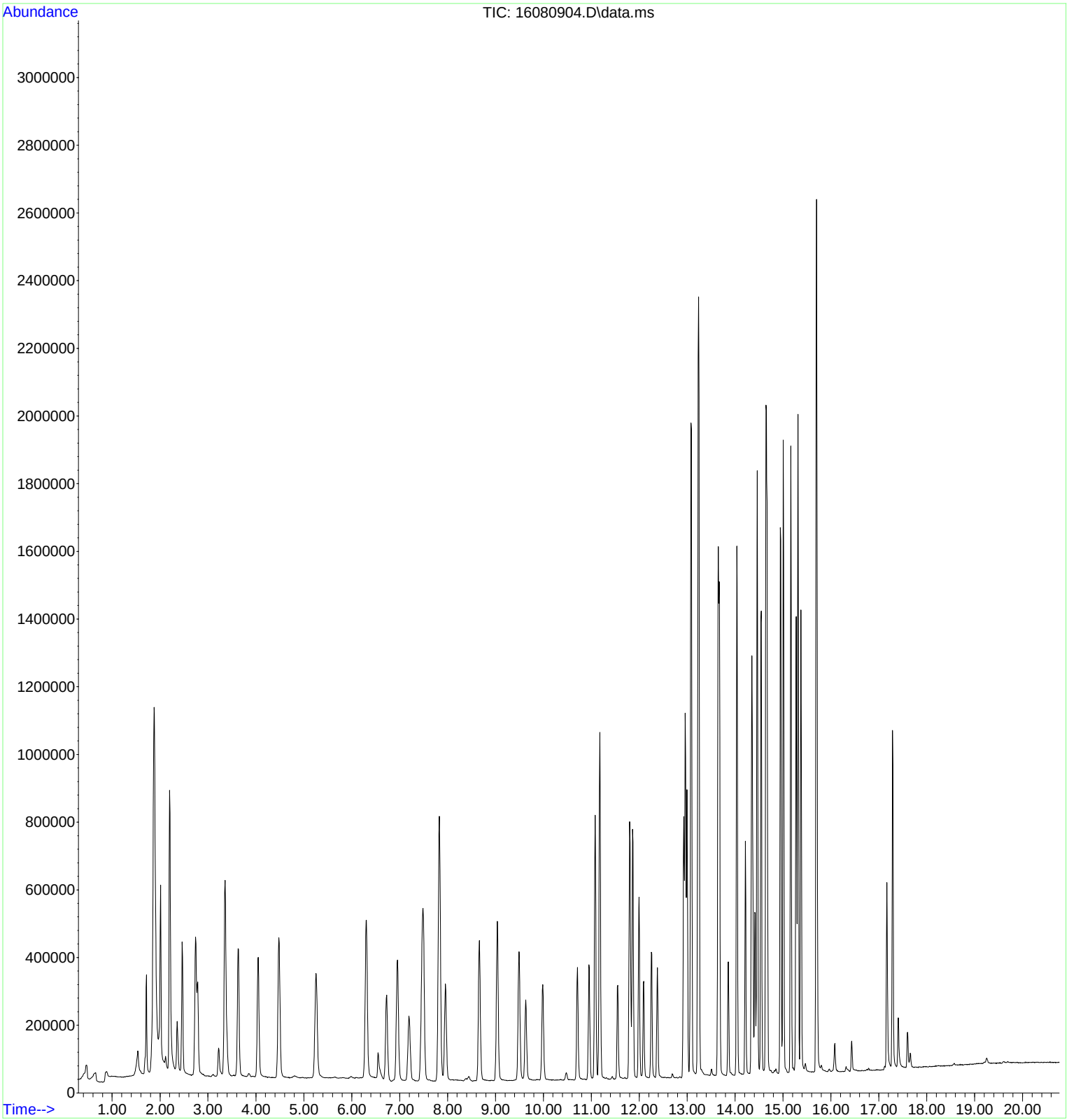
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

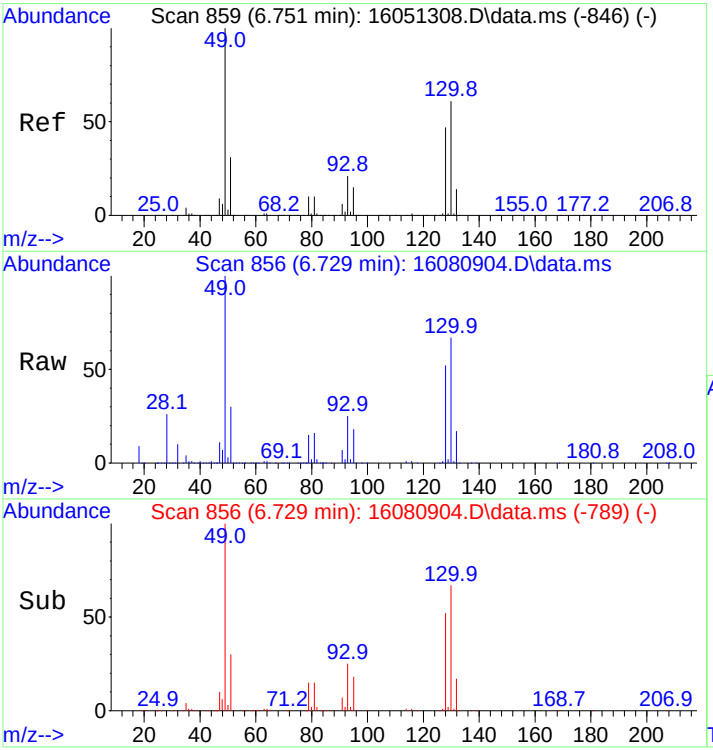
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080904.D
Acq On : 9 Aug 2016 12:14 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 19 10:25:41 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

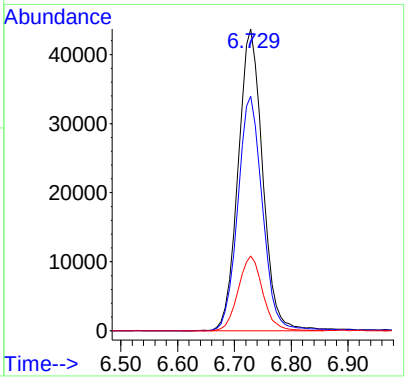


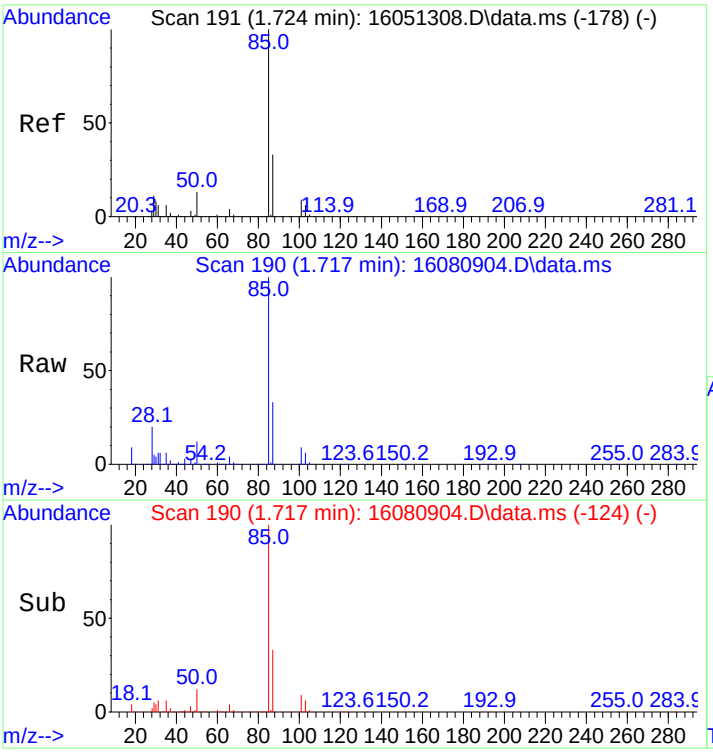


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.729 min Scan# 856
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:130 Resp: 131097

Ion	Ratio	Lower	Upper
130	100		
128	78.4	63.0	94.4
132	24.8	19.9	29.9

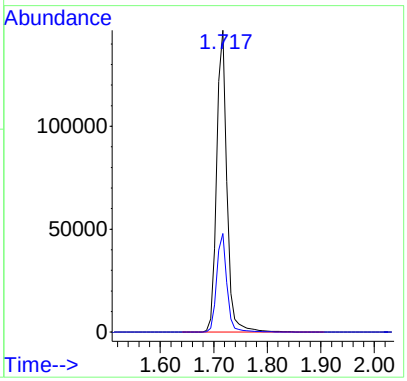


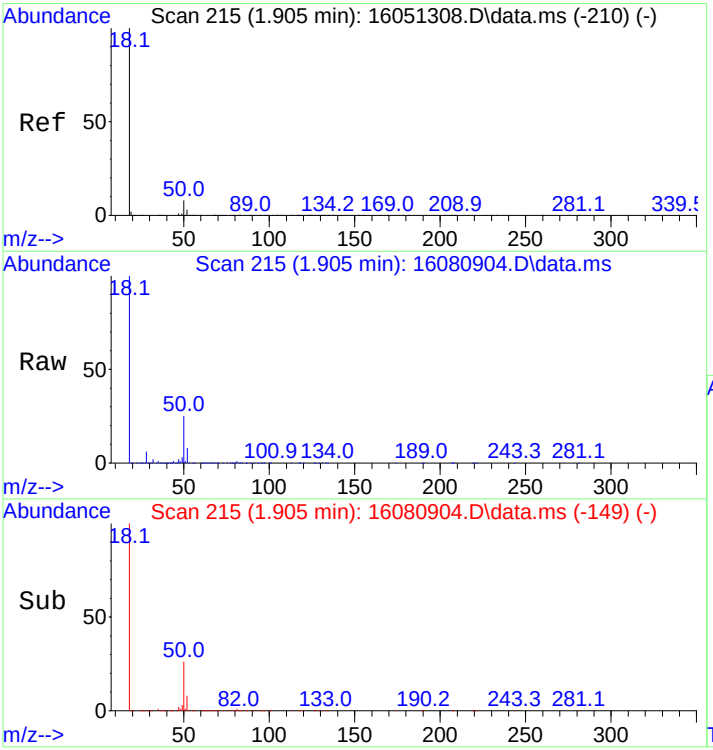


#2
Dichlorodifluoromethane
Concen: 223.30 ng
RT: 1.717 min Scan# 190
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 85 Resp: 194210

Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.0	39.0

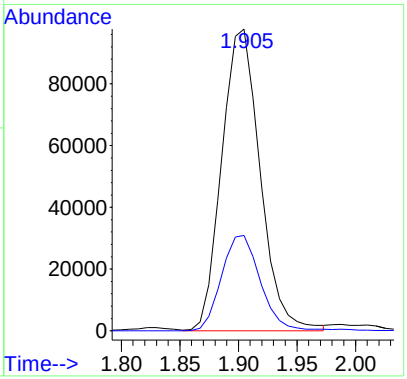


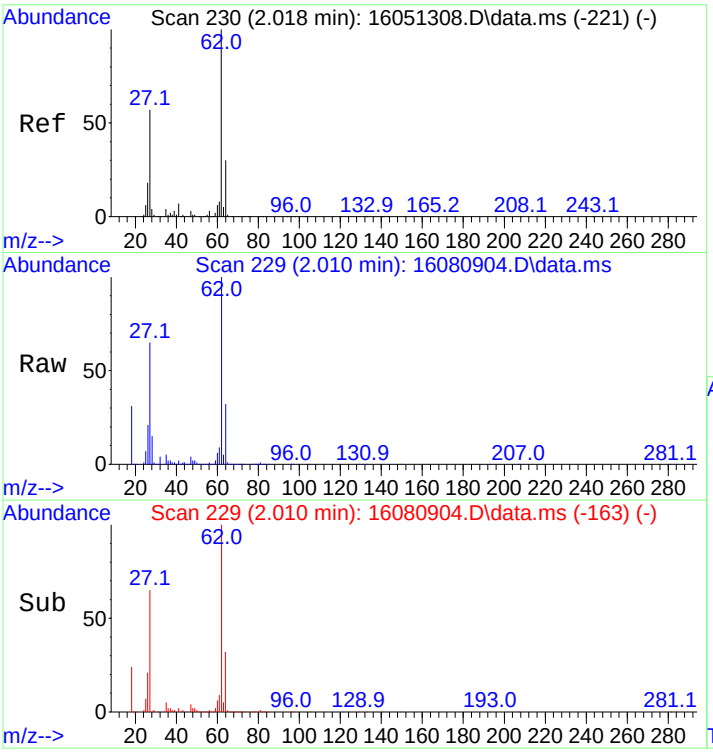


#3
Chloromethane
Concen: 216.16 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 50 Resp: 222957

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.0	39.0

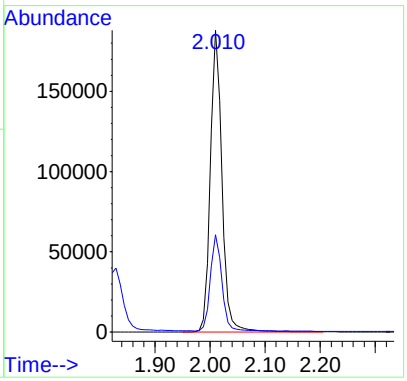


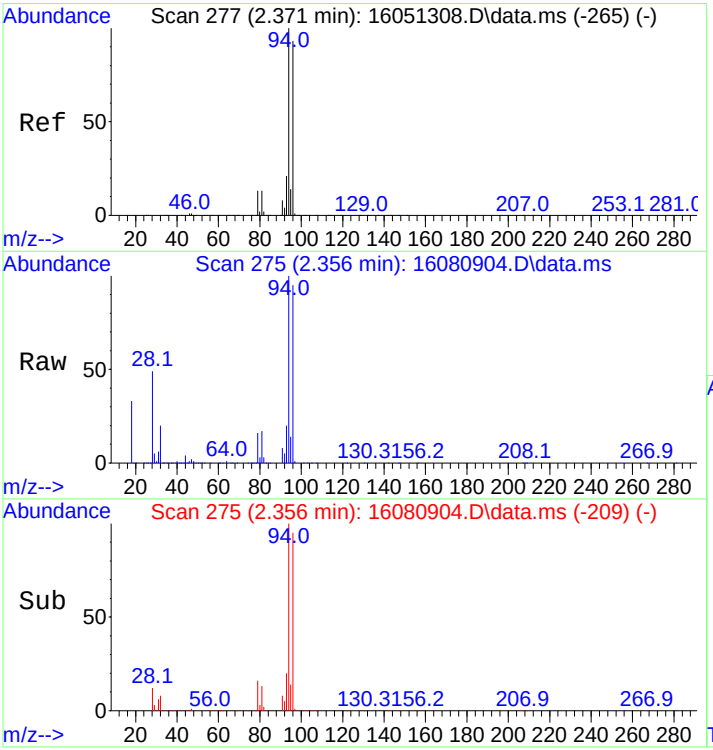


#4
Vinyl Chloride
Concen: 224.17 ng
RT: 2.010 min Scan# 229
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 62 Resp: 277893

Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.7	38.5

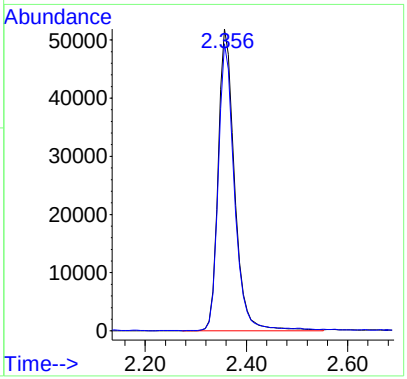


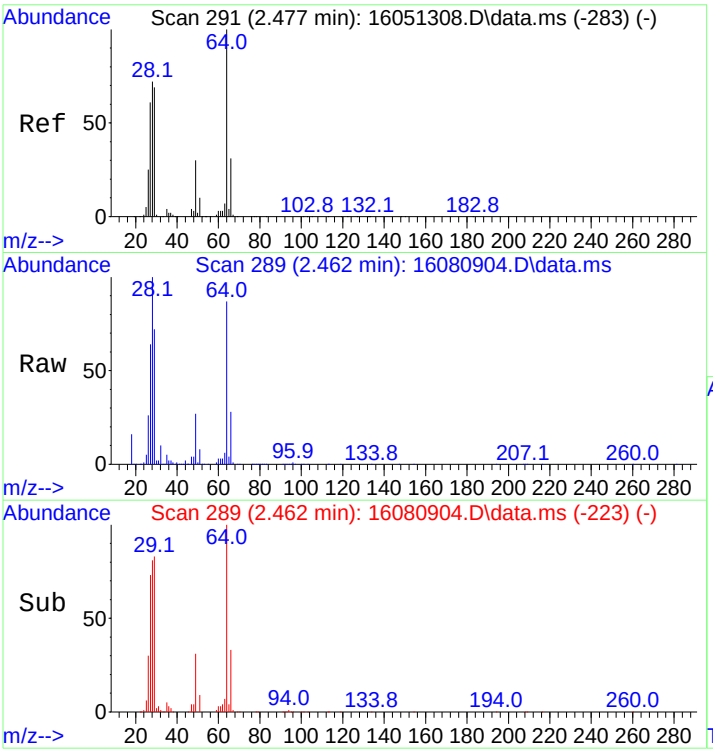


#5
Bromomethane
Concen: 212.49 ng
RT: 2.356 min Scan# 275
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 94 Resp: 117073

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.5	111.7

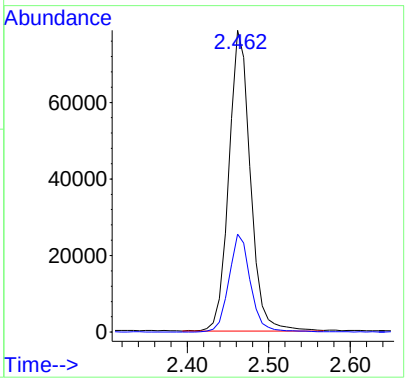


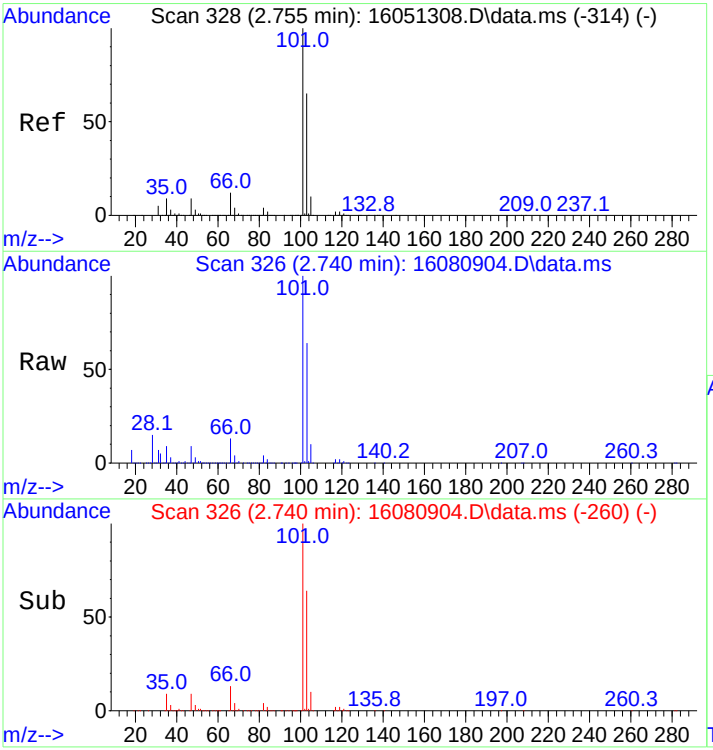


#6
Chloroethane
Concen: 223.75 ng
RT: 2.462 min Scan# 289
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 64 Resp: 144417

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.0	37.4

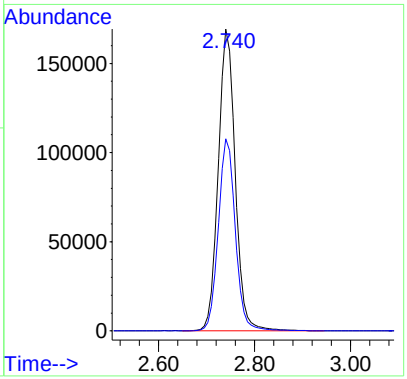


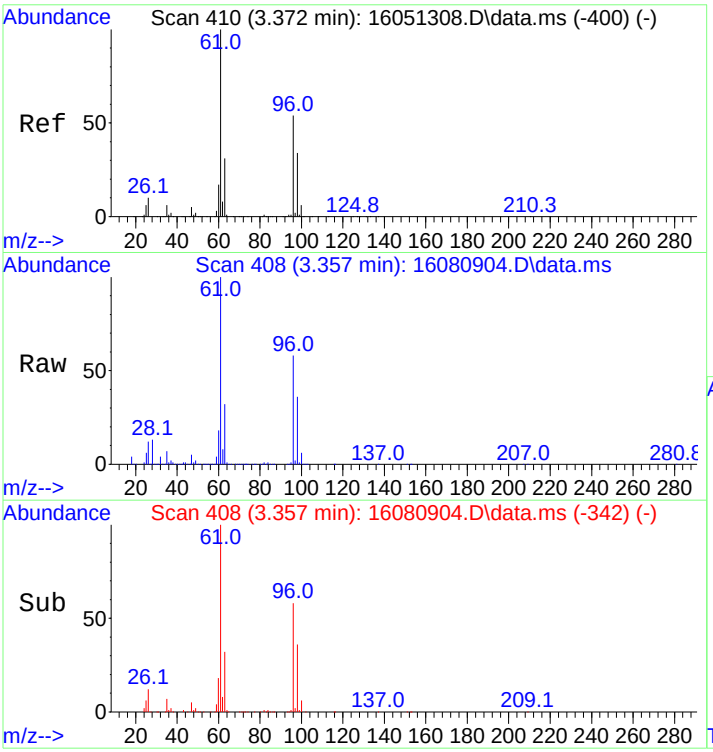


#7
Trichlorofluoromethane
Concen: 223.74 ng
RT: 2.740 min Scan# 326
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:101 Resp: 413722

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.8	77.6

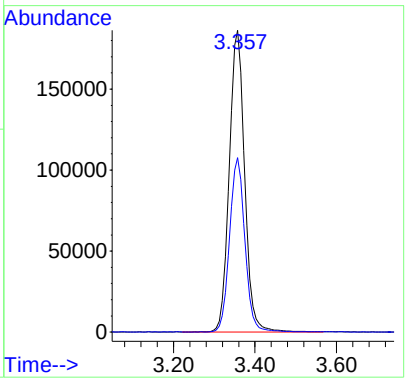


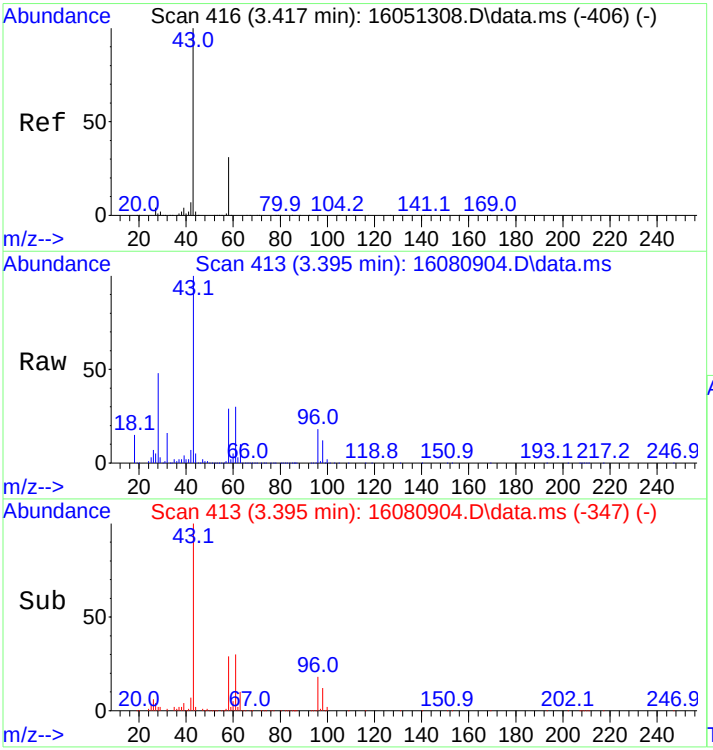


#8
1,1-Dichloroethene
Concen: 218.92 ng
RT: 3.357 min Scan# 408
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 61 Resp: 487889

Ion	Ratio	Lower	Upper
61	100		
96	57.6	44.1	66.1

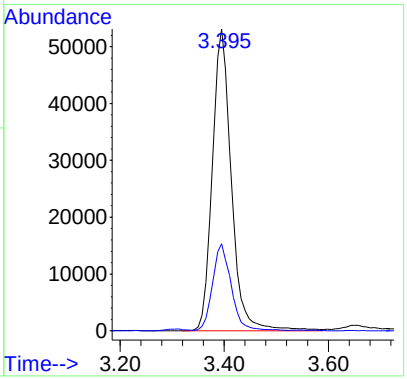


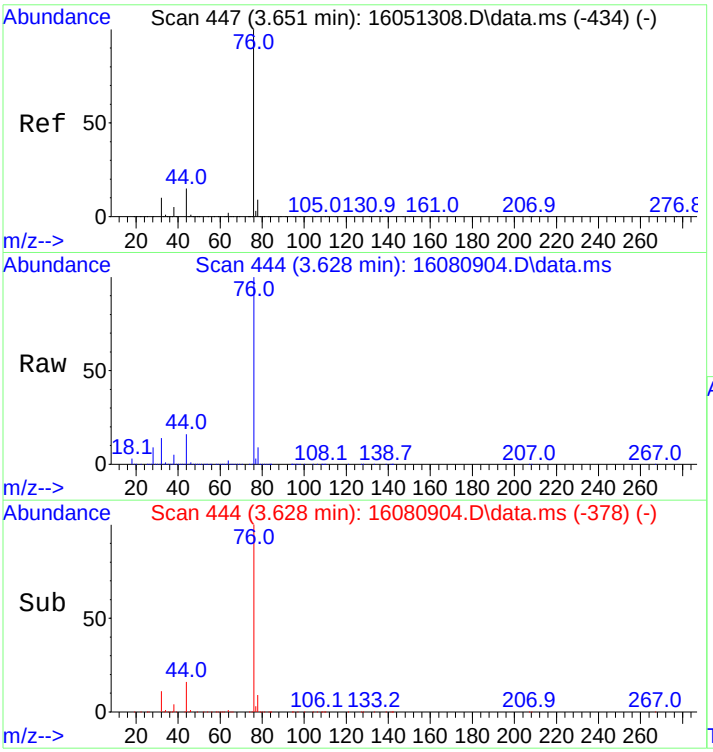


#9
Acetone
Concen: 162.39 ng
RT: 3.395 min Scan# 413
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 134695

Ion	Ratio	Lower	Upper
43	100		
58	28.3	24.7	37.1

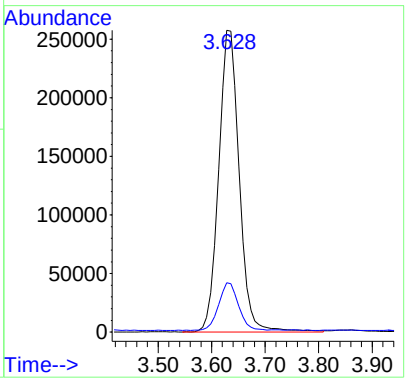


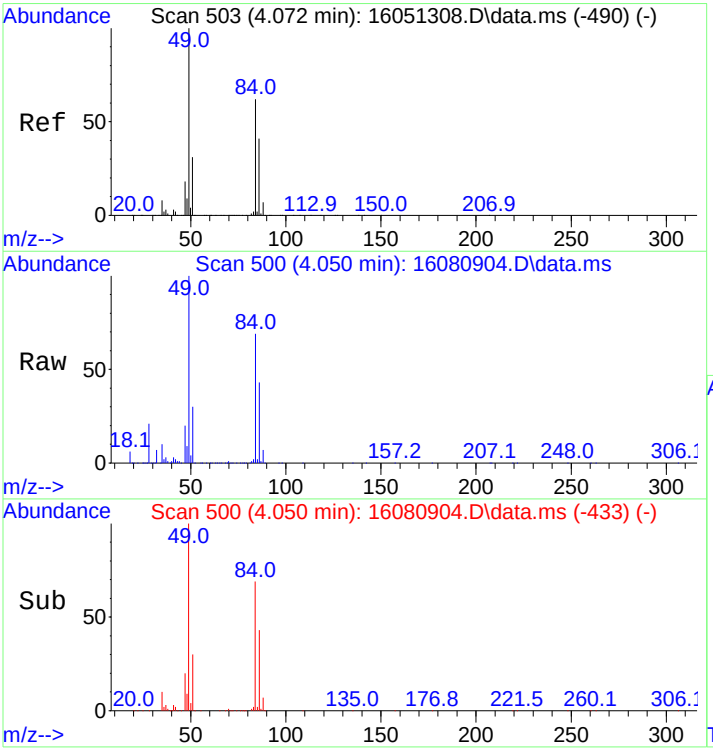


#11
Carbon disulfide
Concen: 196.70 ng
RT: 3.628 min Scan# 444
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 76 Resp: 686256

Ion	Ratio	Lower	Upper
76	100		
44	15.2	12.2	18.4

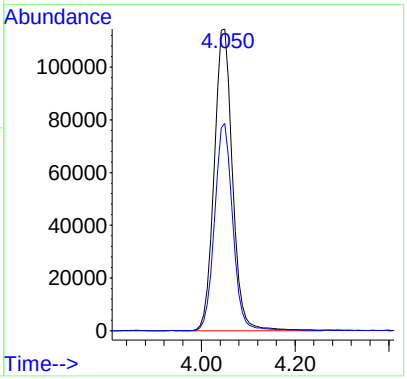


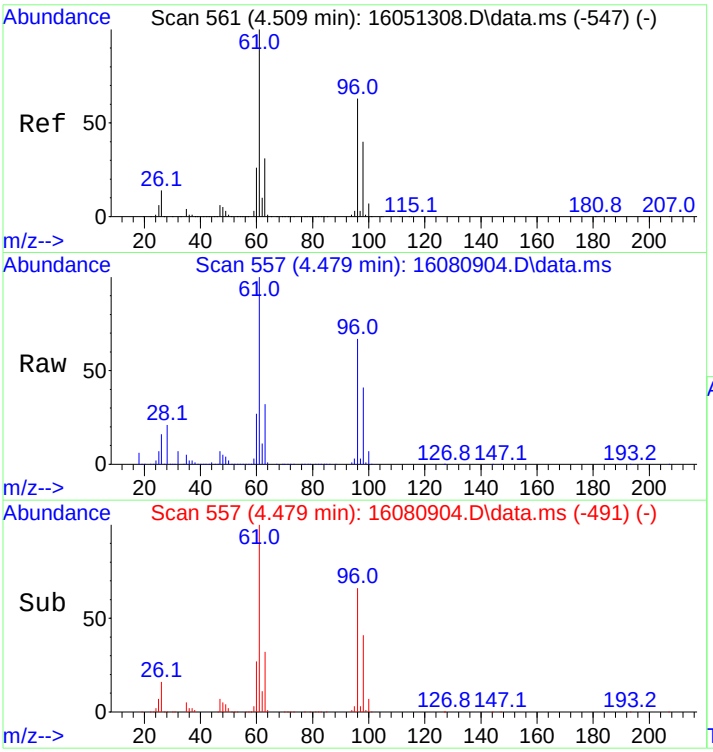


#12
Methylene Chloride
Concen: 202.21 ng
RT: 4.050 min Scan# 500
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 49 Resp: 311862

Ion	Ratio	Lower	Upper
49	100		
84	68.1	48.4	72.6

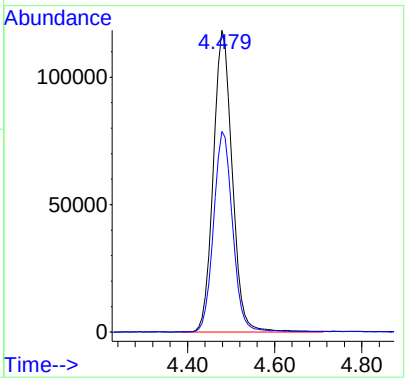


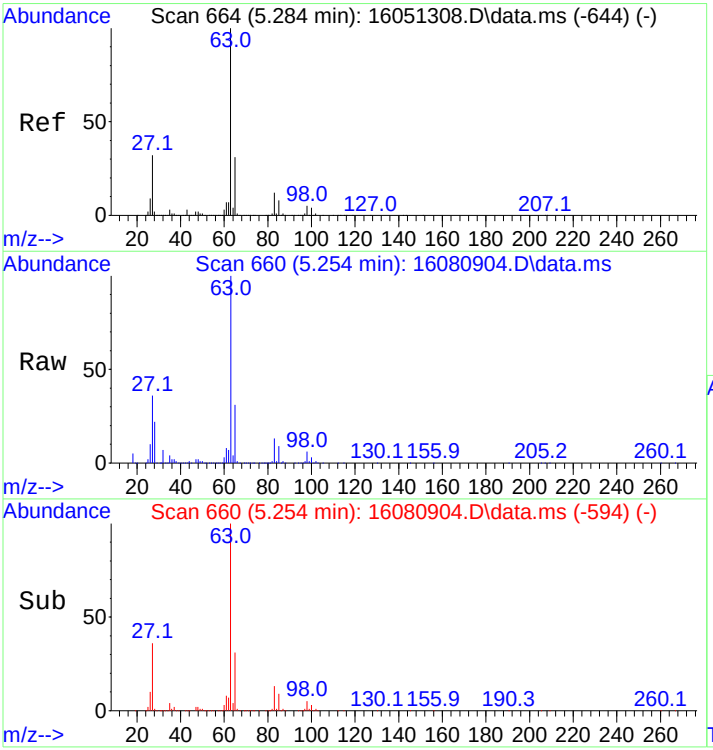


#13
trans,1,2-Dichloroethene
Concen: 241.42 ng
RT: 4.479 min Scan# 557
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 61 Resp: 357146

Ion	Ratio	Lower	Upper
61	100		
96	66.9	50.2	75.4

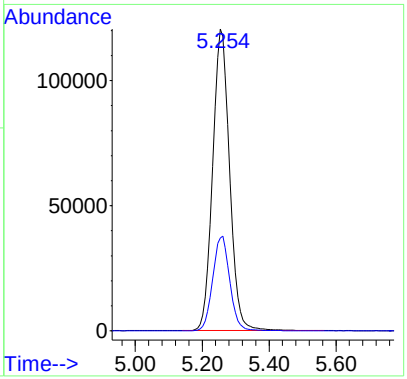


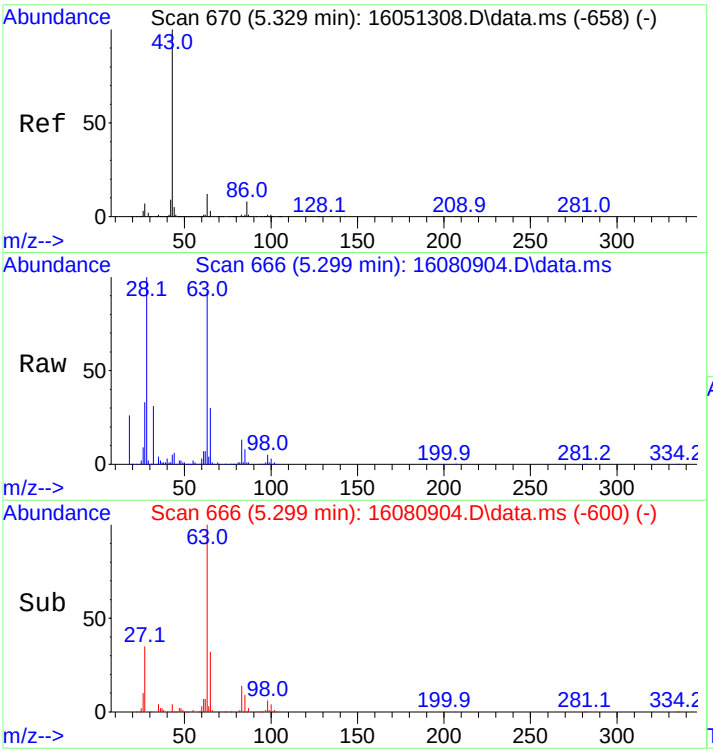


#14
1,1-Dichloroethane
Concen: 230.96 ng
RT: 5.254 min Scan# 660
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 63 Resp: 423762

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.6	37.0

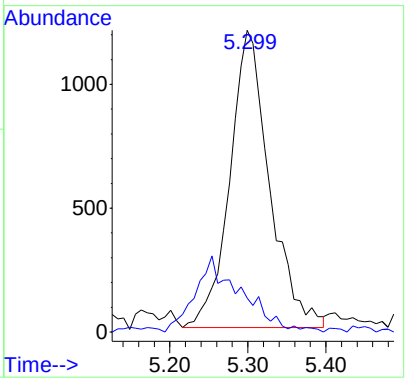


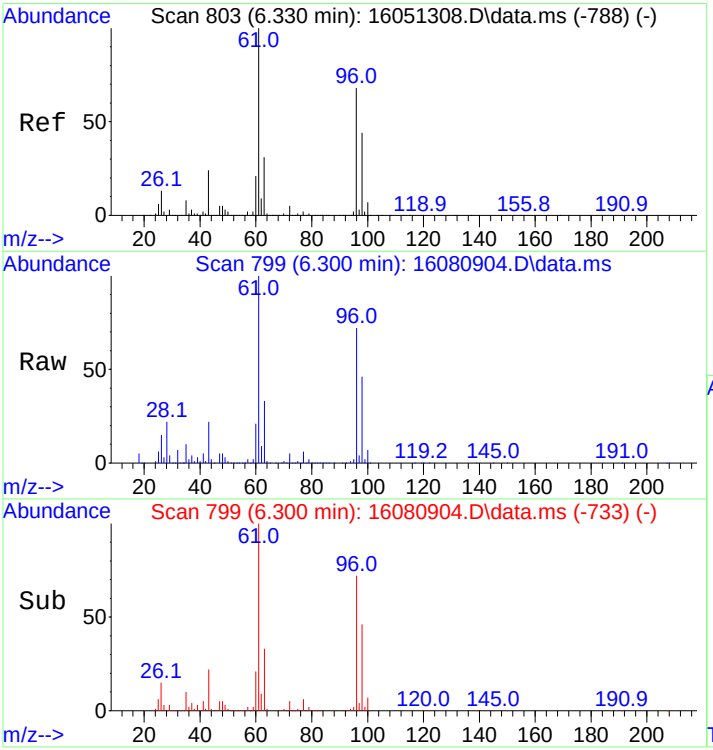


#15
Vinyl Acetate
Concen: 4.55 ng
RT: 5.299 min Scan# 666
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 4251

Ion	Ratio	Lower	Upper
43	100		
86	28.7	6.6	9.8#

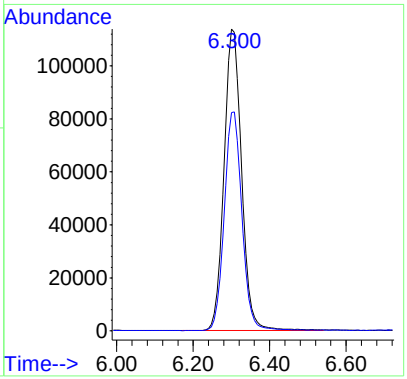


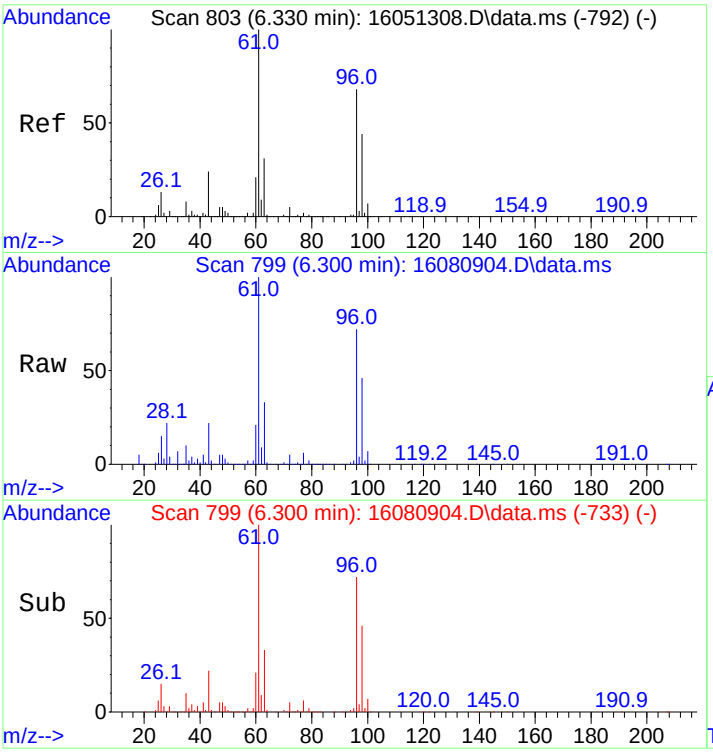


#16
cis,1,2-Dichloroethene
Concen: 212.04 ng
RT: 6.300 min Scan# 799
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 61 Resp: 363544

Ion	Ratio	Lower	Upper
61	100		
96	72.8	54.6	81.8

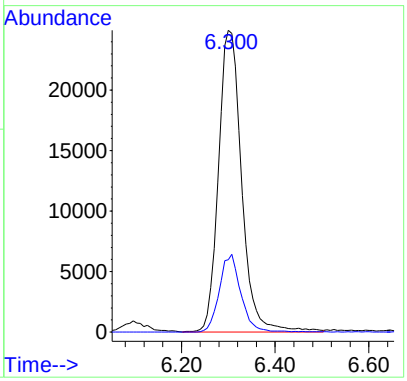


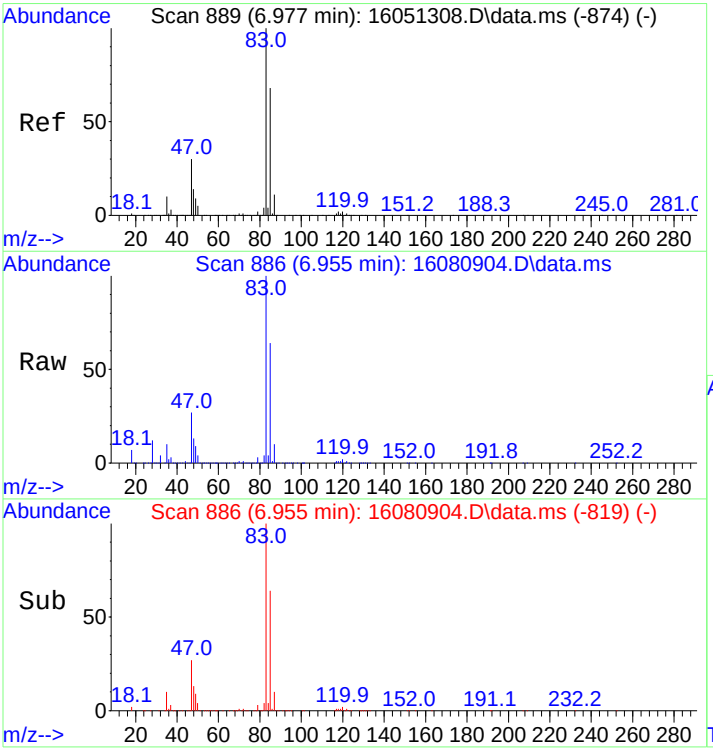


#17
2-Butanone
Concen: 144.46 ng
RT: 6.300 min Scan# 799
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 85670

Ion	Ratio	Lower	Upper
43	100		
72	24.0	17.4	26.2

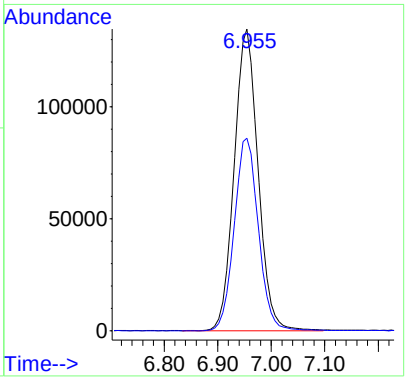


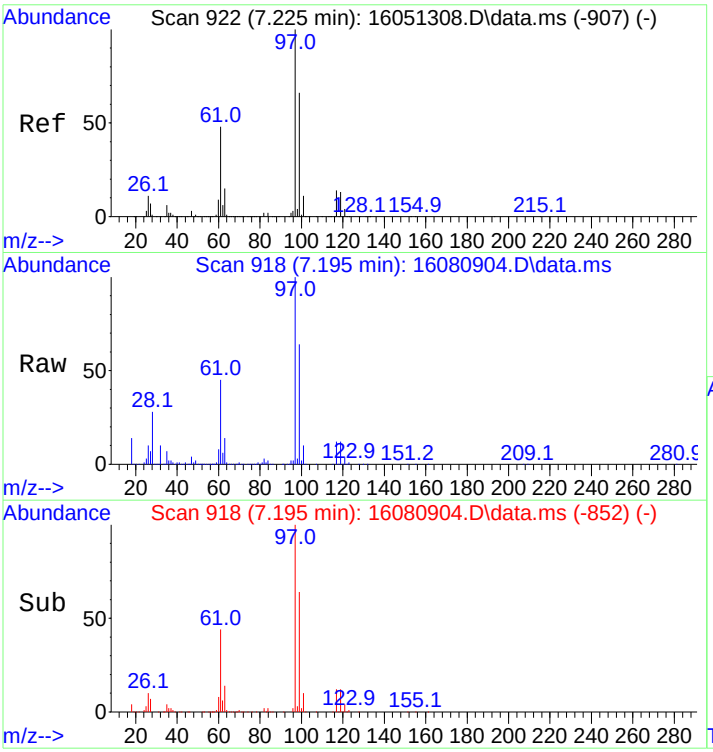


#18
Chloroform
Concen: 242.71 ng
RT: 6.955 min Scan# 886
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 417761

Ion	Ratio	Lower	Upper
83	100		
85	64.7	53.9	80.9

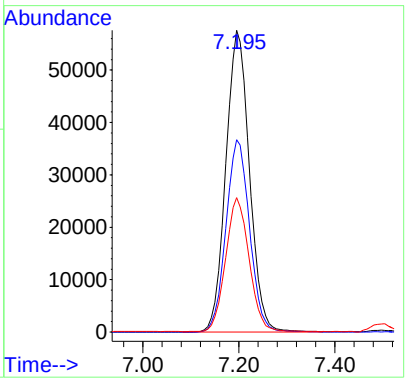


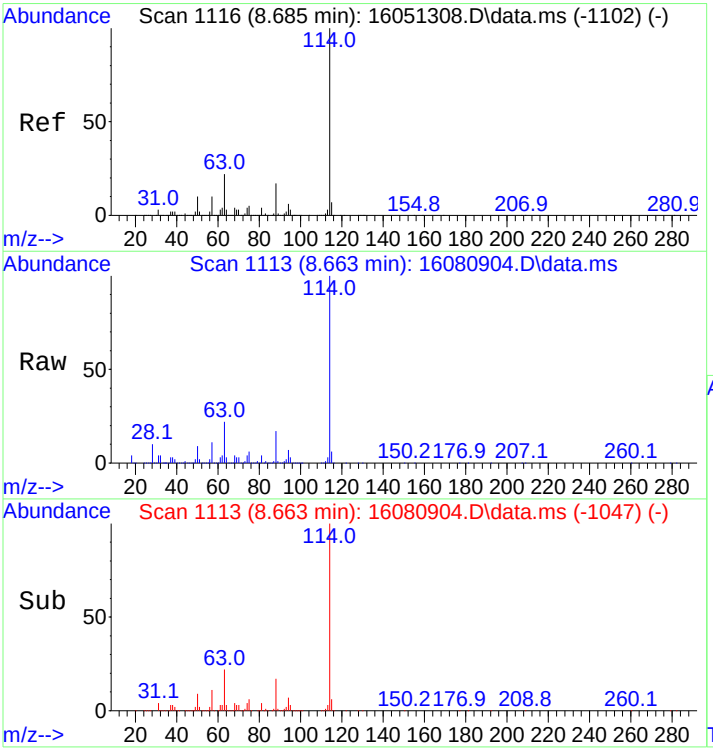


#19
1,1,1-Trichloroethane
Concen: 199.84 ng
RT: 7.195 min Scan# 918
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 97 Resp: 196696

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.3	76.9
61	44.2	37.6	56.4

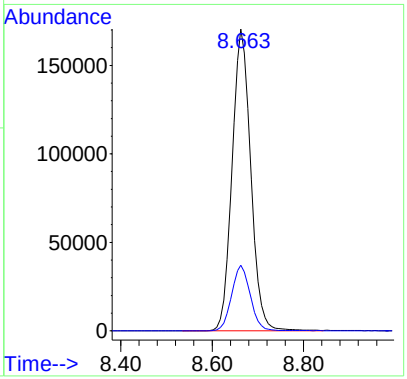


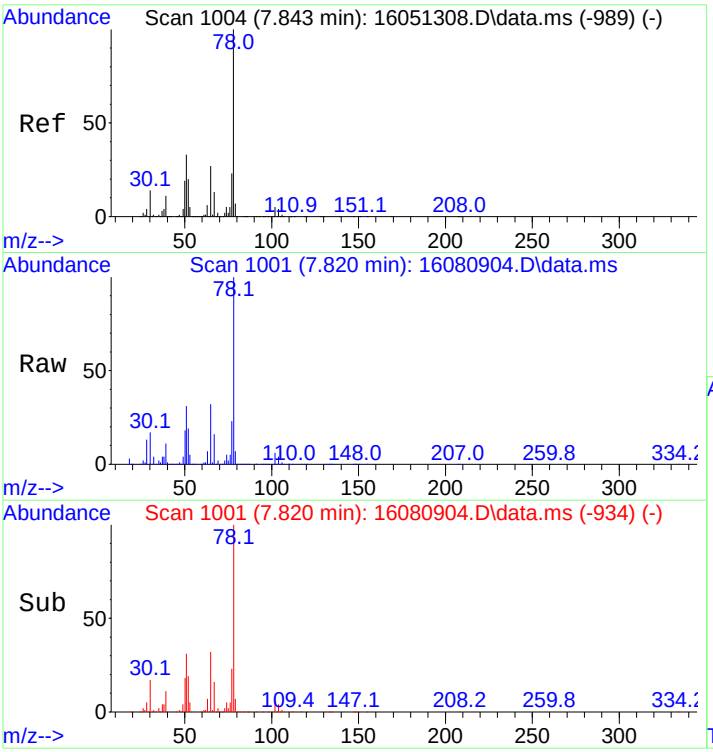


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.663 min Scan# 1113
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:114 Resp: 482170

Ion	Ratio	Lower	Upper
114	100		
63	21.7	17.8	26.8

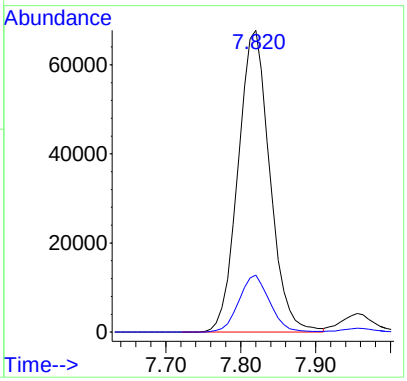


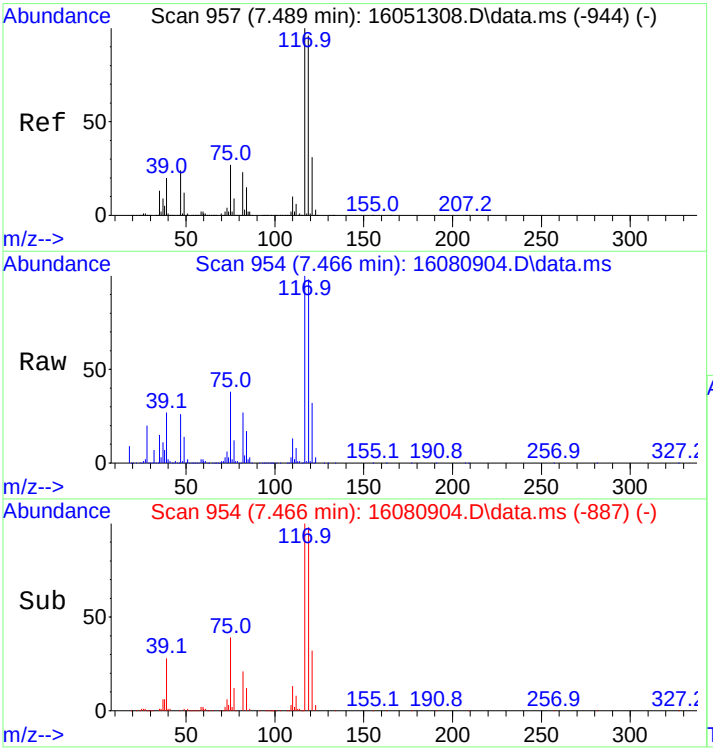


#21
d4-1,2-Dichloroethane(SURR)
Concen: 305.35 ng
RT: 7.820 min Scan# 1001
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 65 Resp: 199426

Ion	Ratio	Lower	Upper
65	100		
102	18.3	16.5	24.7

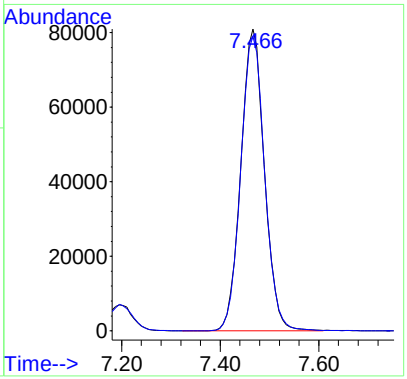


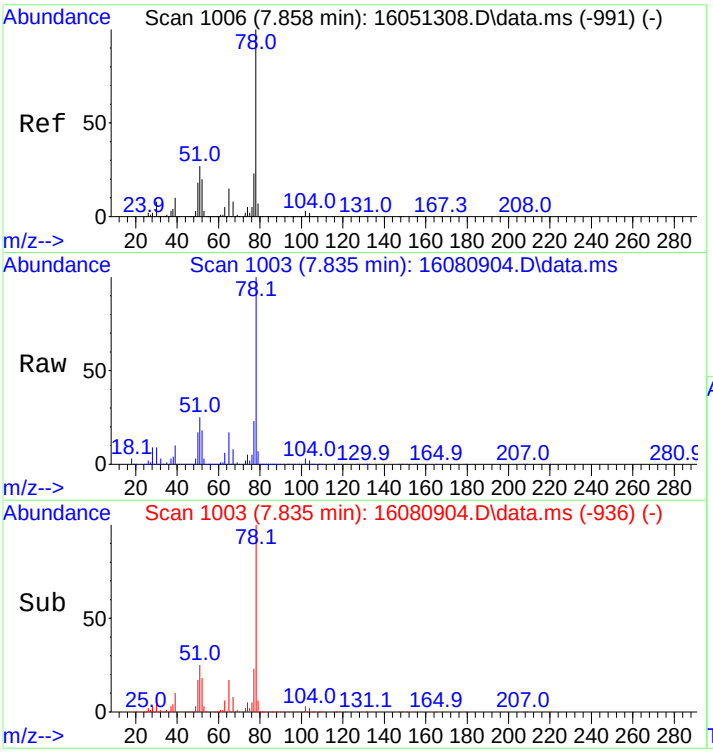


#22
Carbon Tetrachloride
Concen: 291.60 ng
RT: 7.466 min Scan# 954
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:117 Resp: 268609

Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.0	115.4

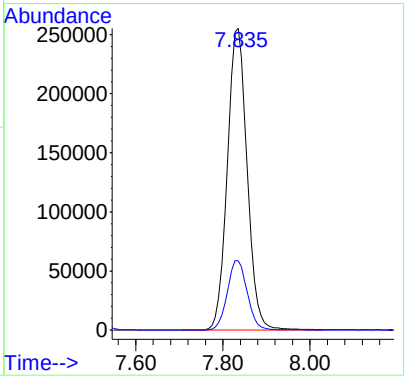


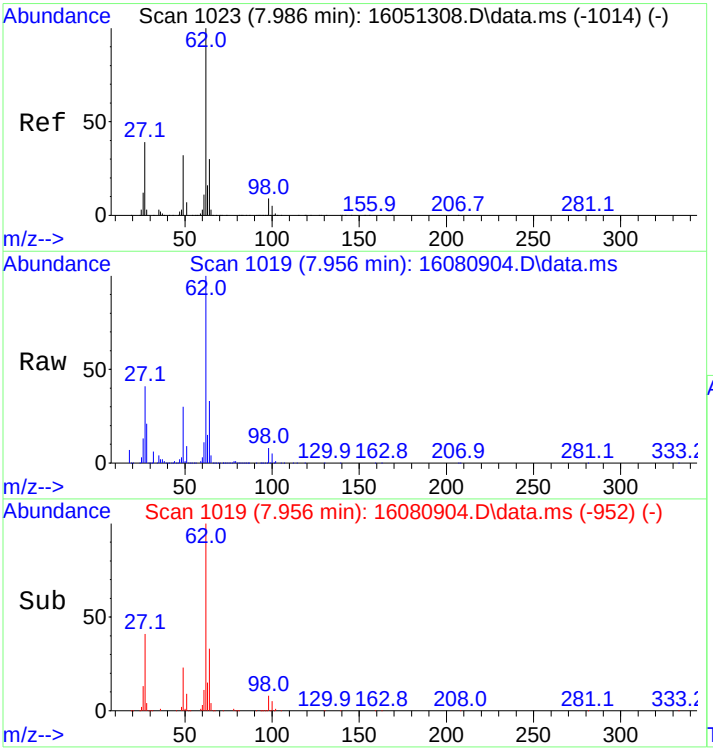


#23
Benzene
Concen: 230.84 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 78 Resp: 805768

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

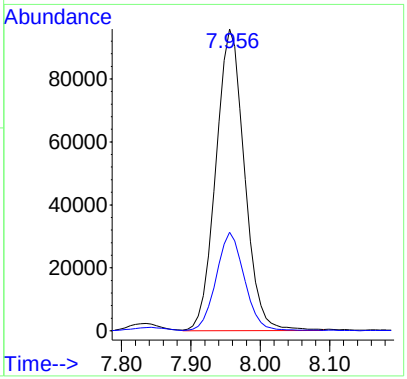


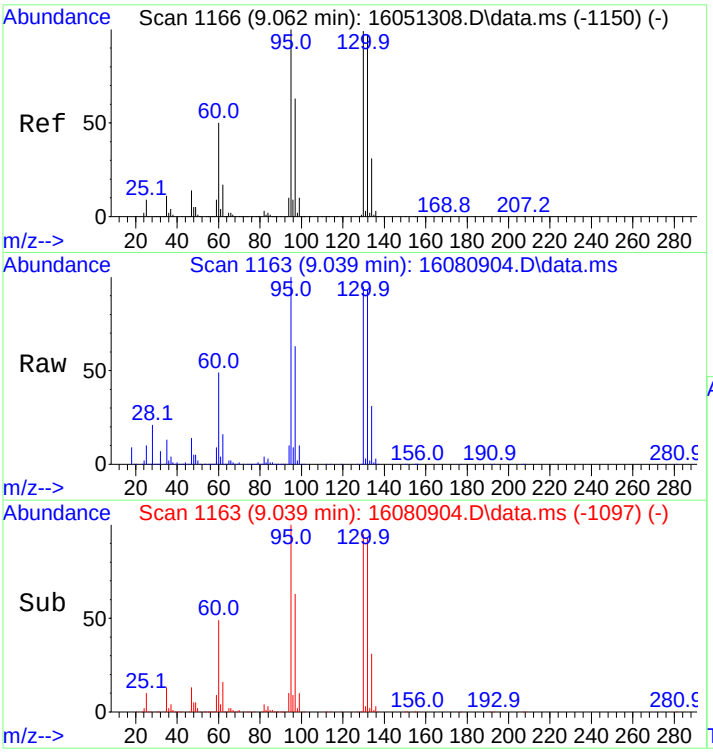


#24
1,2-Dichloroethane
Concen: 274.87 ng
RT: 7.956 min Scan# 1019
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 62 Resp: 274666

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.8	37.2

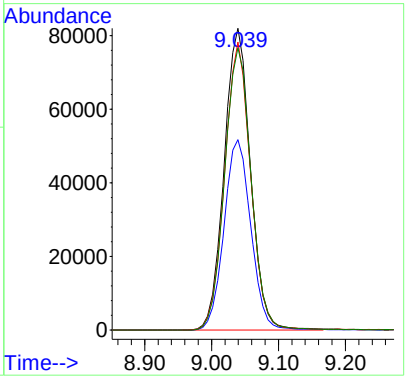


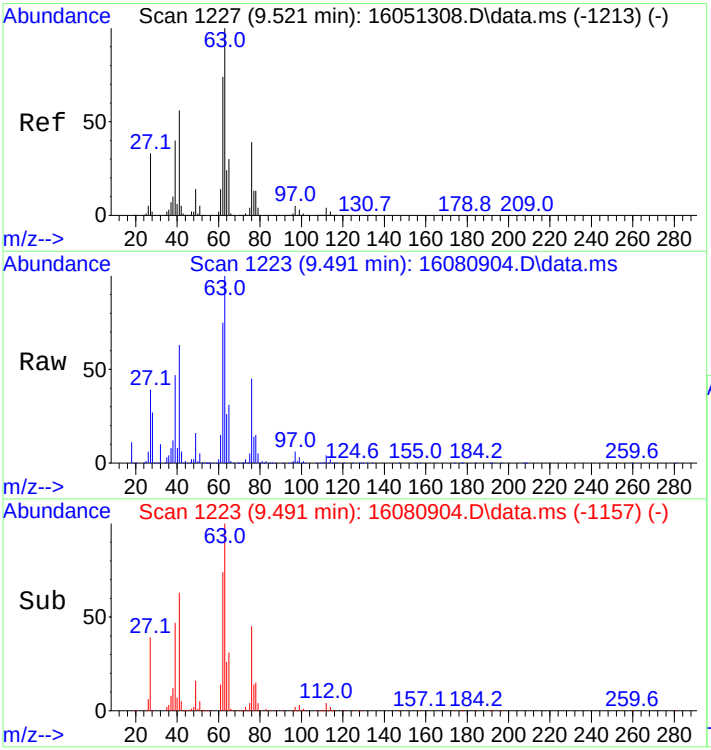


#25
Trichloroethene
Concen: 286.70 ng
RT: 9.039 min Scan# 1163
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 95 Resp: 224361

Ion	Ratio	Lower	Upper
95	100		
97	64.3	51.8	77.8
130	94.3	81.9	122.9
132	94.4	81.2	121.8

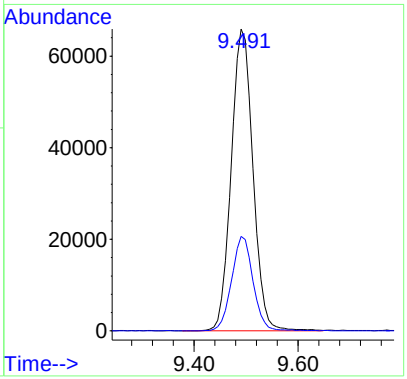


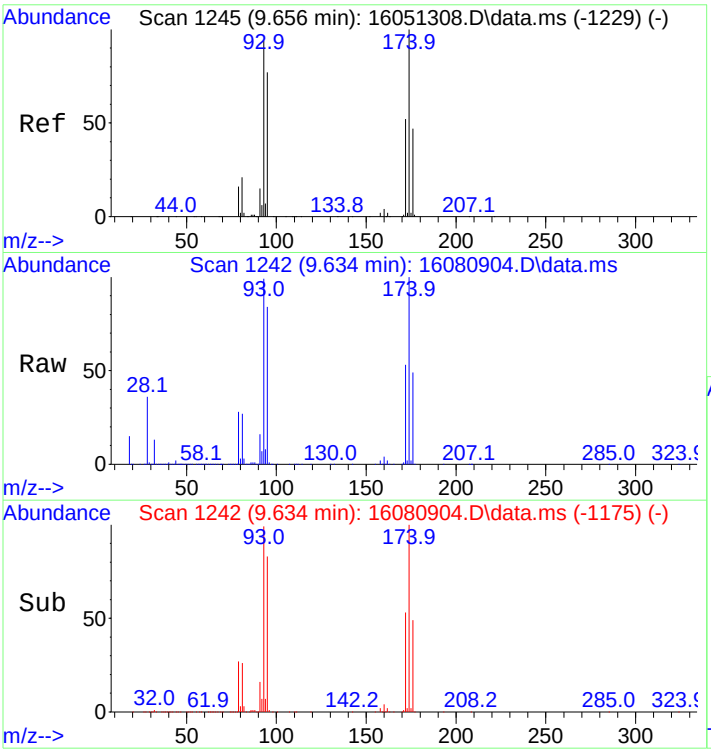


#26
1,2-Dichloropropane
Concen: 238.89 ng
RT: 9.491 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 63 Resp: 191137

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.2	36.2

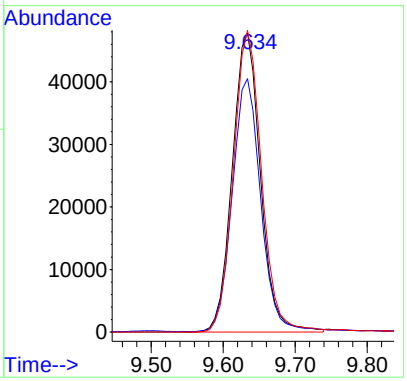


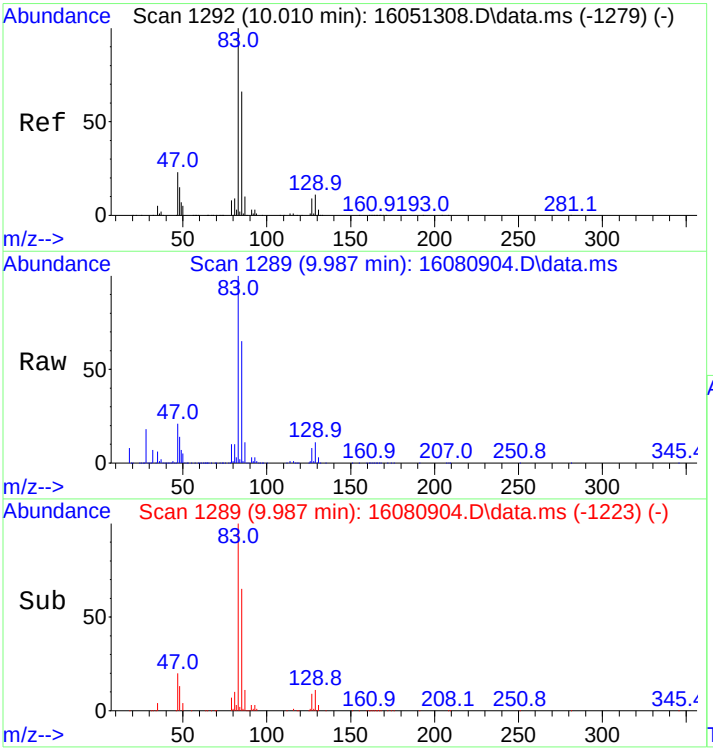


#27
Dibromomethane
Concen: 288.91 ng
RT: 9.634 min Scan# 1242
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 93 Resp: 129480

Ion	Ratio	Lower	Upper
93	100		
95	86.1	65.5	98.3
174	101.4	85.5	128.3

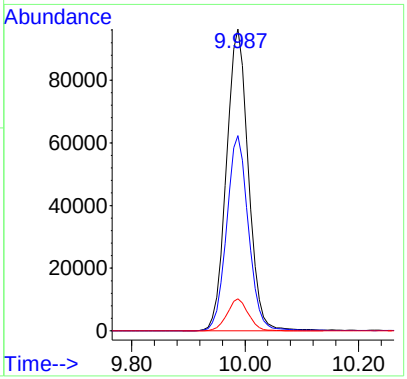


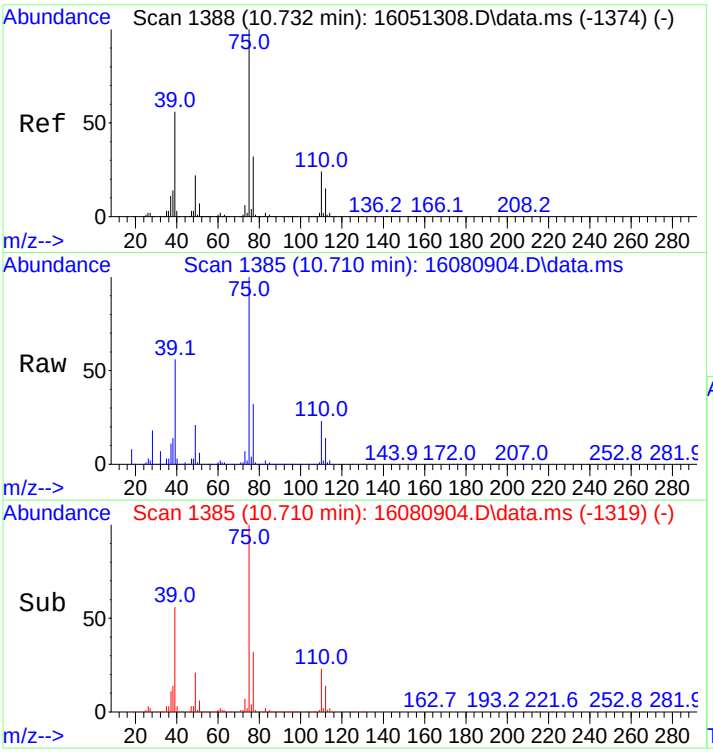


#28
Bromodichloromethane
Concen: 296.97 ng
RT: 9.987 min Scan# 1289
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 258731

Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.5	78.7
87	10.3	8.3	12.5

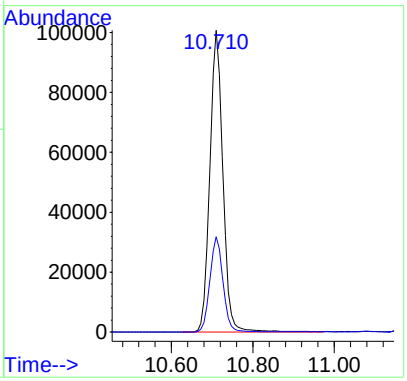


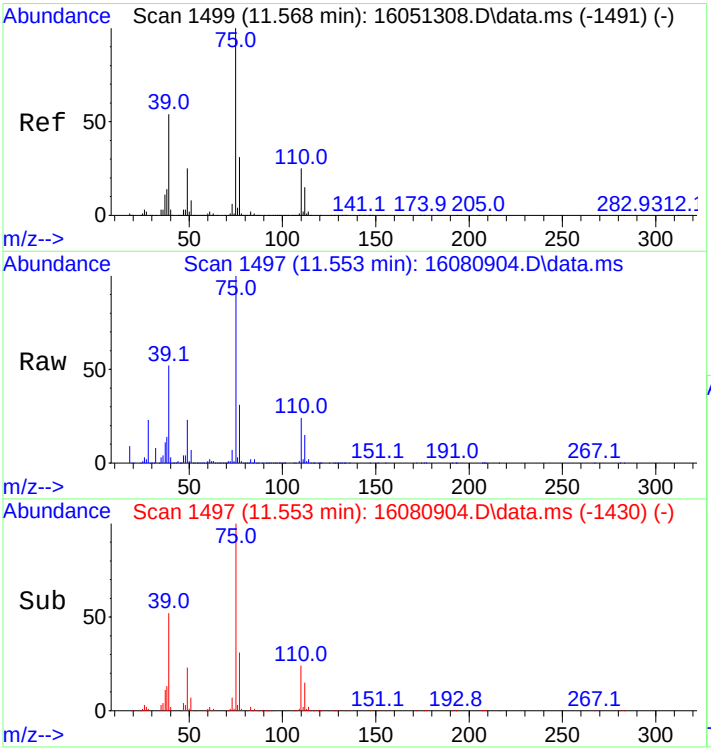


#29
cis,1,3-Dichloropropene
Concen: 251.59 ng
RT: 10.710 min Scan# 1385
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 224558

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4

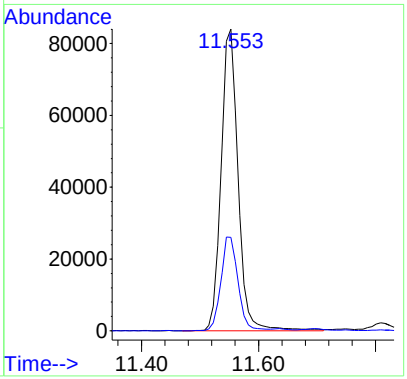


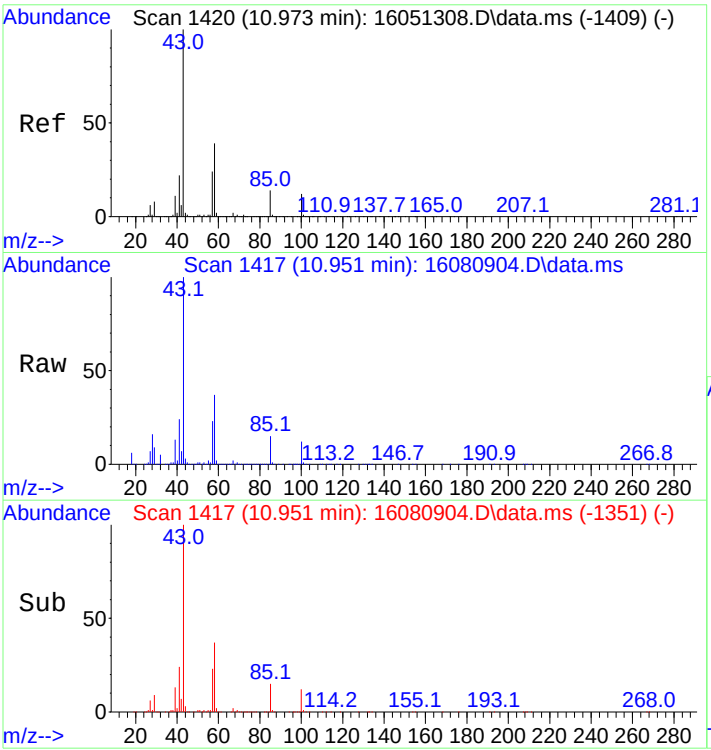


#30
trans,1,3-Dichloropropene
Concen: 279.17 ng
RT: 11.553 min Scan# 1497
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 169471

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

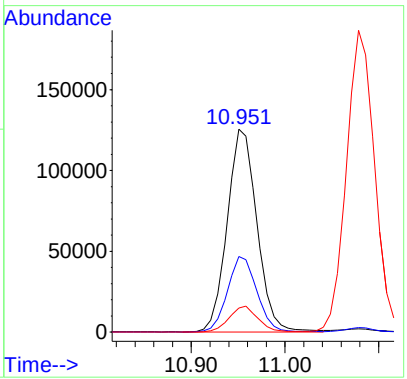


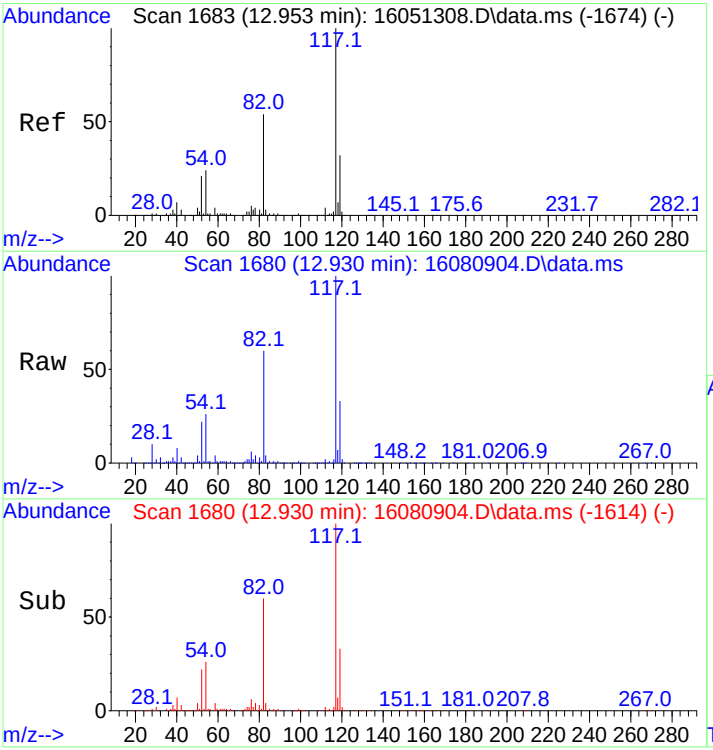


#31
4-Methyl-2-Pentanone
Concen: 235.91 ng
RT: 10.951 min Scan# 1417
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 277966

Ion	Ratio	Lower	Upper
43	100		
58	37.0	31.3	46.9
100	12.4	10.2	15.2

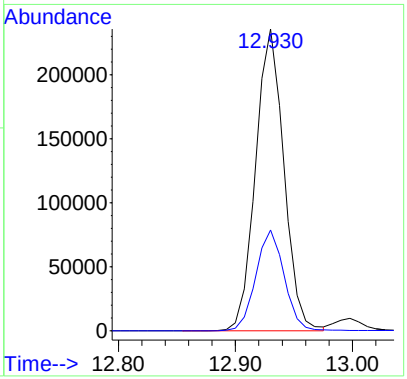


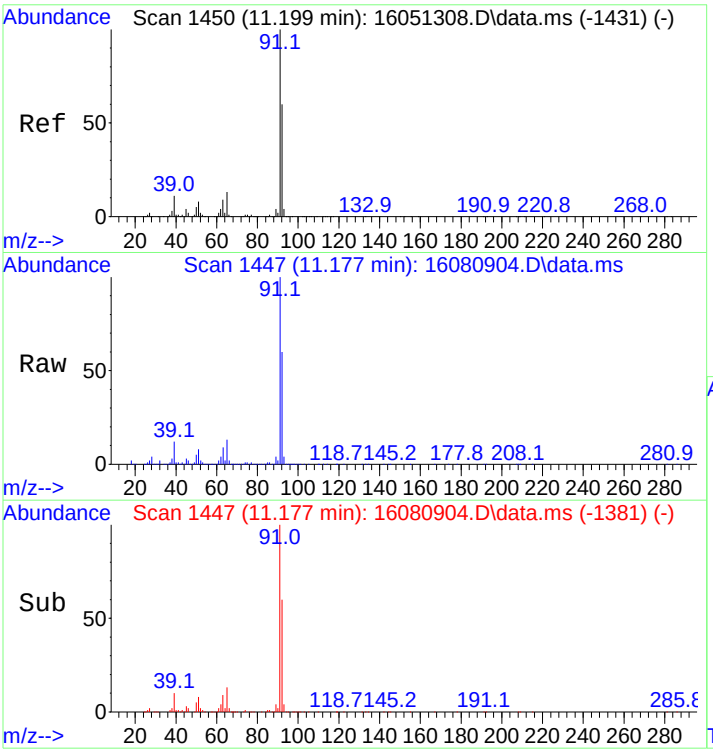


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:117 Resp: 396607

Ion	Ratio	Lower	Upper
117	100		
119	33.6	25.8	38.8

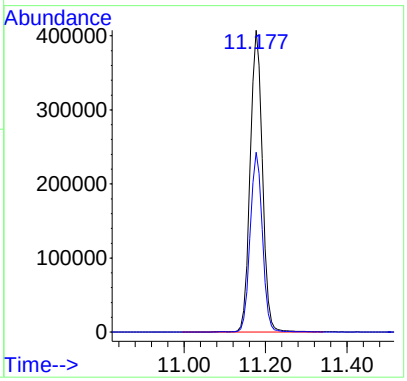


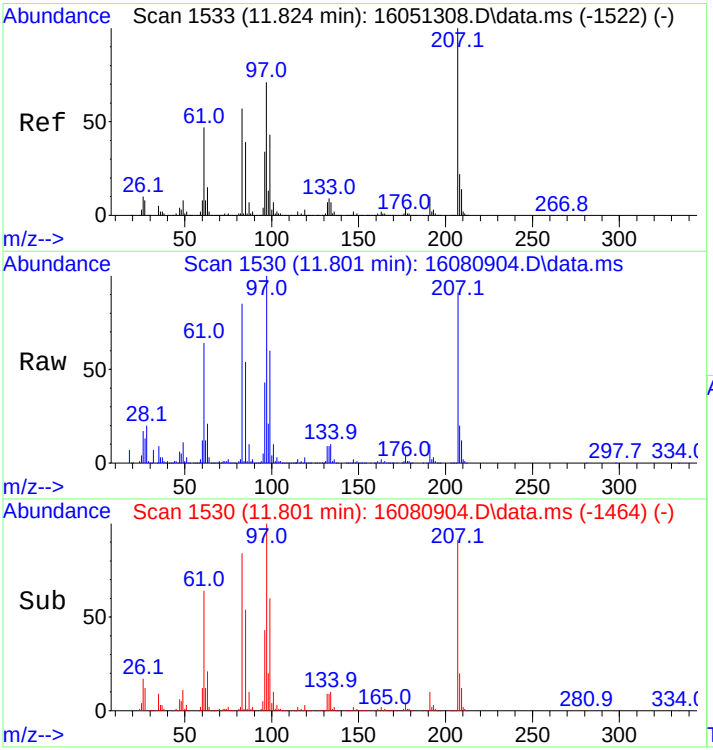


#33
Toluene
Concen: 215.84 ng
RT: 11.177 min Scan# 1447
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 849087

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.6	73.0

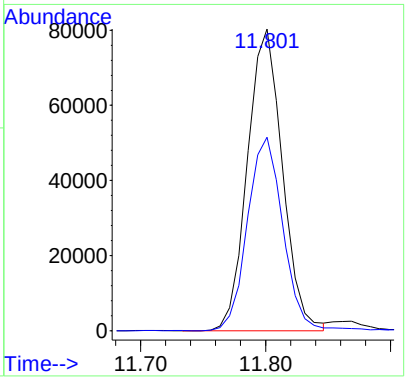


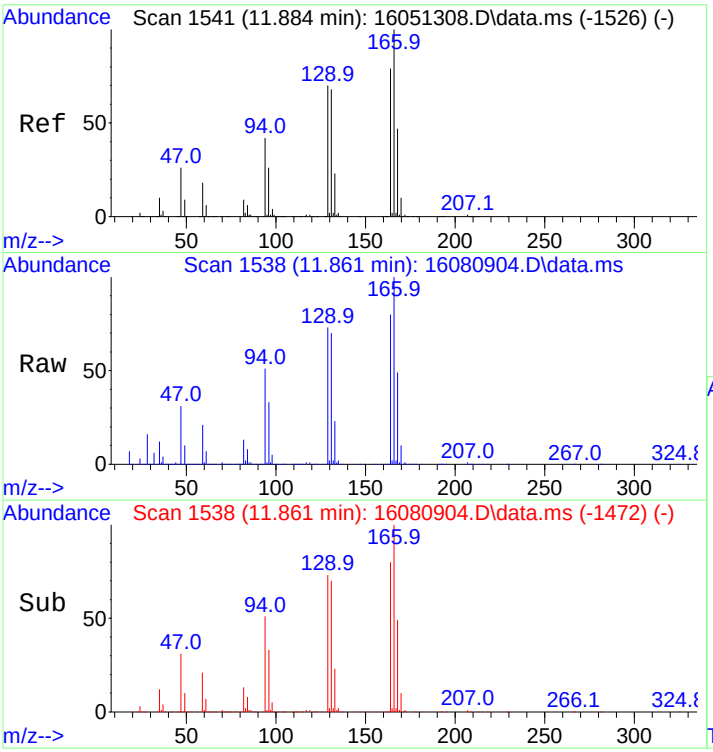


#34
1,1,2-Trichloroethane
Concen: 230.55 ng
RT: 11.801 min Scan# 1530
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 156737

Ion	Ratio	Lower	Upper
83	100		
85	65.7	54.7	82.1

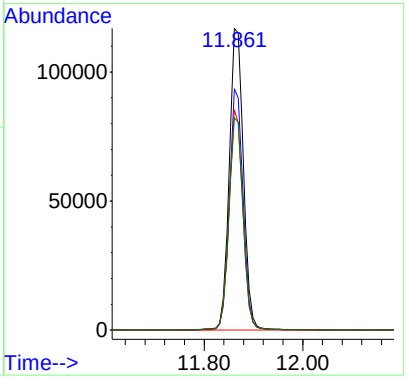


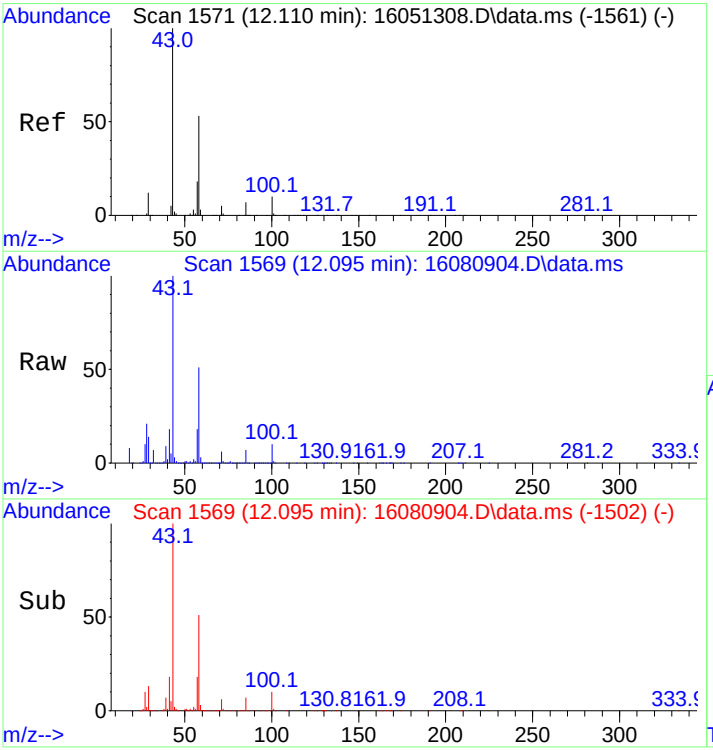


#35
Tetrachloroethene
Concen: 225.75 ng
RT: 11.861 min Scan# 1538
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:166 Resp: 232581

Ion	Ratio	Lower	Upper
166	100		
164	78.4	63.2	94.8
129	71.3	55.5	83.3
131	70.5	55.2	82.8

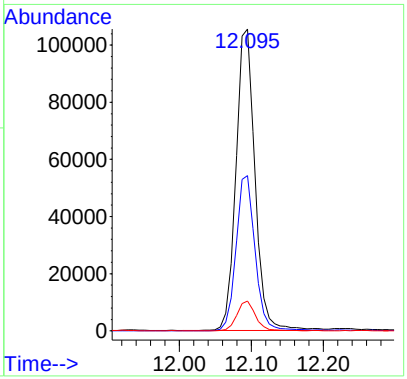


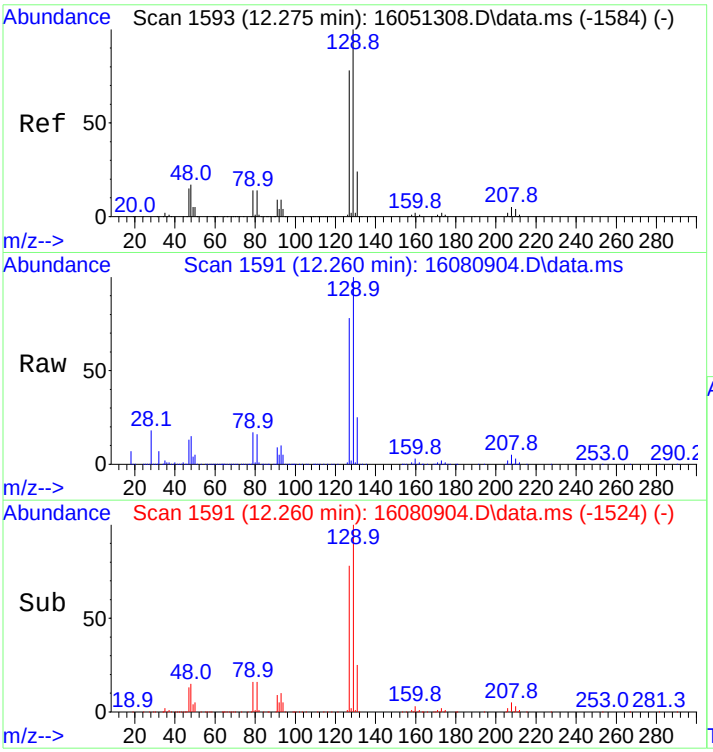


#36
2-Hexanone
Concen: 191.63 ng
RT: 12.095 min Scan# 1569
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 193397

Ion	Ratio	Lower	Upper
43	100		
58	51.5	43.6	65.4
100	9.5	7.8	11.8

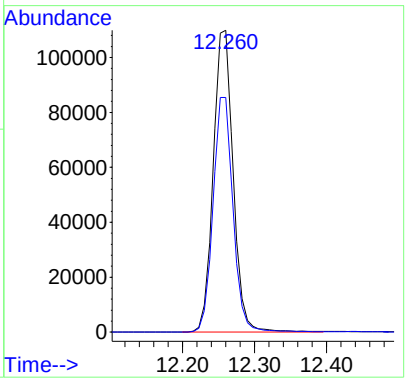


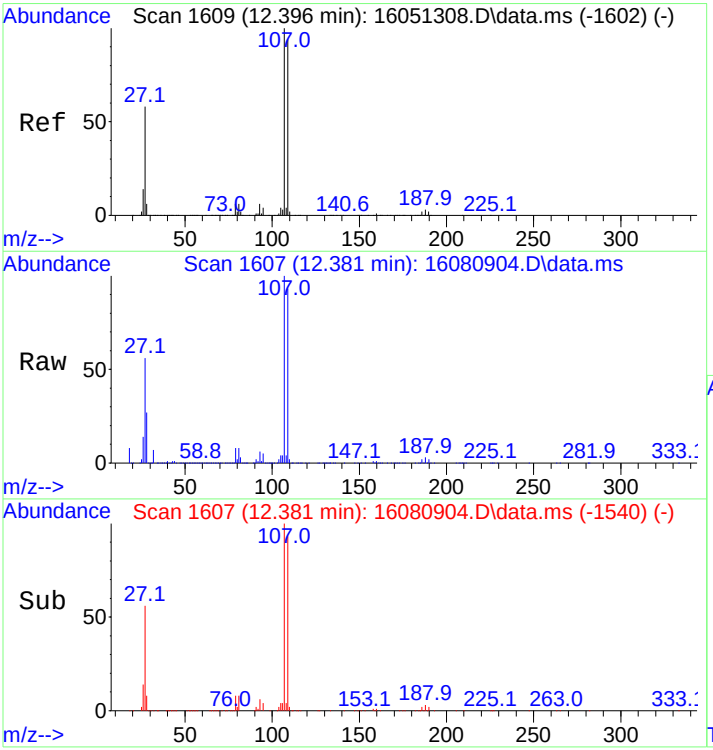


#37
Chlorodibromomethane
Concen: 229.64 ng
RT: 12.260 min Scan# 1591
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:129 Resp: 211756

Ion	Ratio	Lower	Upper
129	100		
127	78.0	62.3	93.5

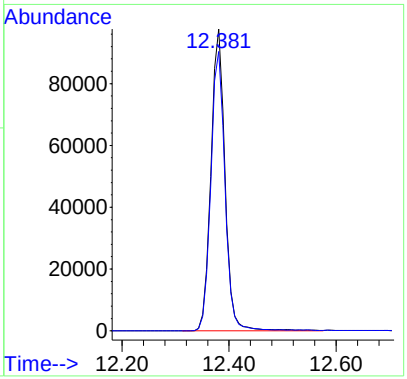


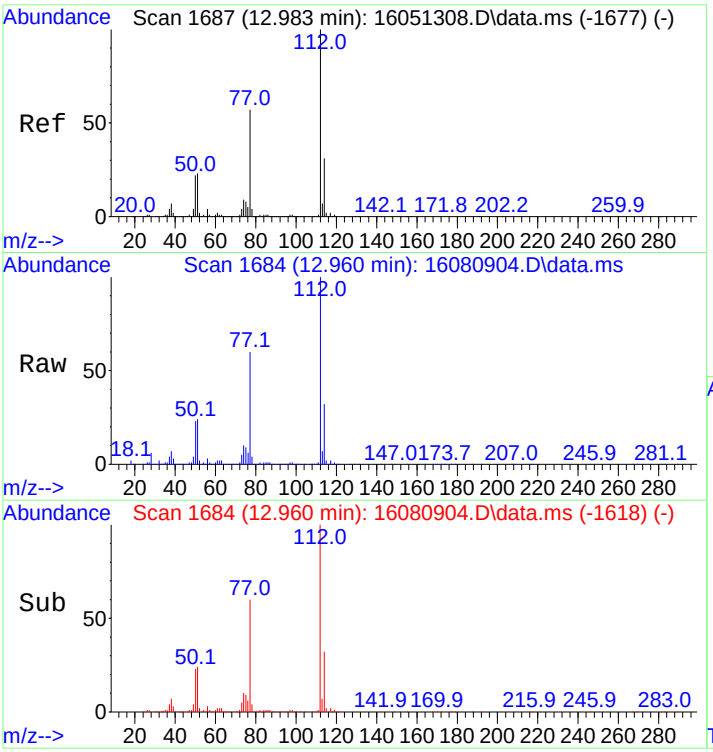


#38
Ethylene Dibromide
Concen: 211.54 ng
RT: 12.381 min Scan# 1607
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:107 Resp: 178056

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.3	111.5

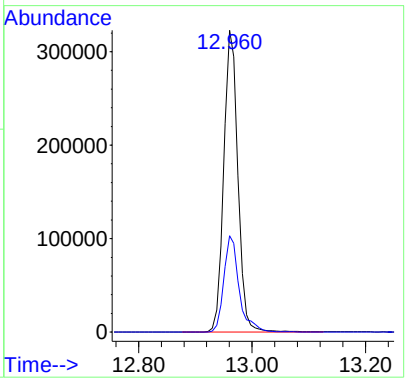


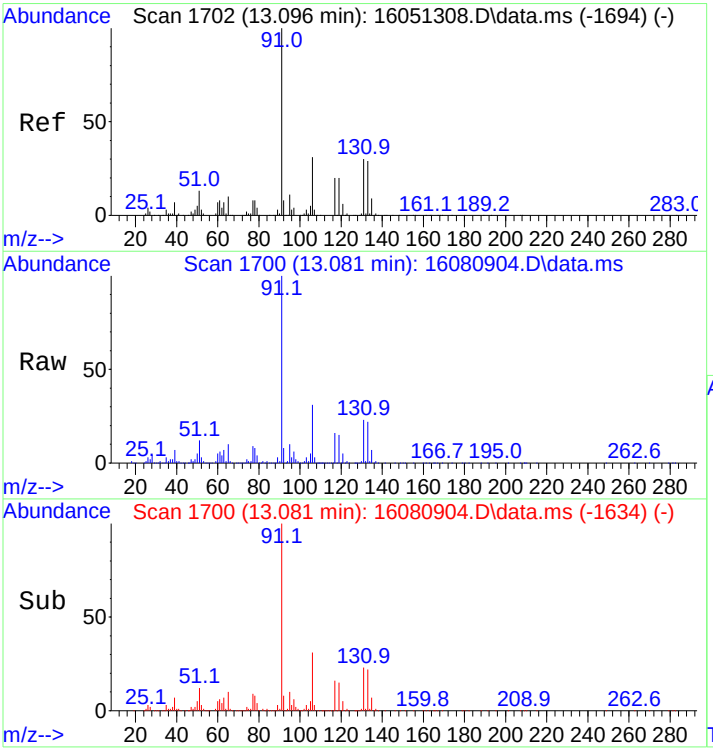


#39
Chlorobenzene
Concen: 231.30 ng
RT: 12.960 min Scan# 1684
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:112 Resp: 559107

Ion	Ratio	Lower	Upper
112	100		
114	34.6	27.5	41.3

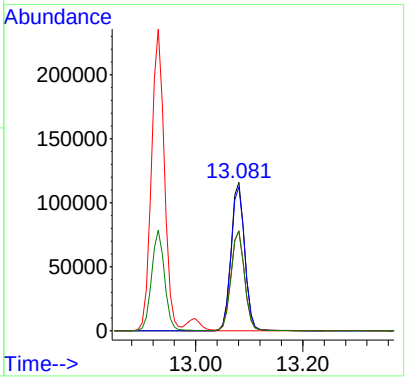


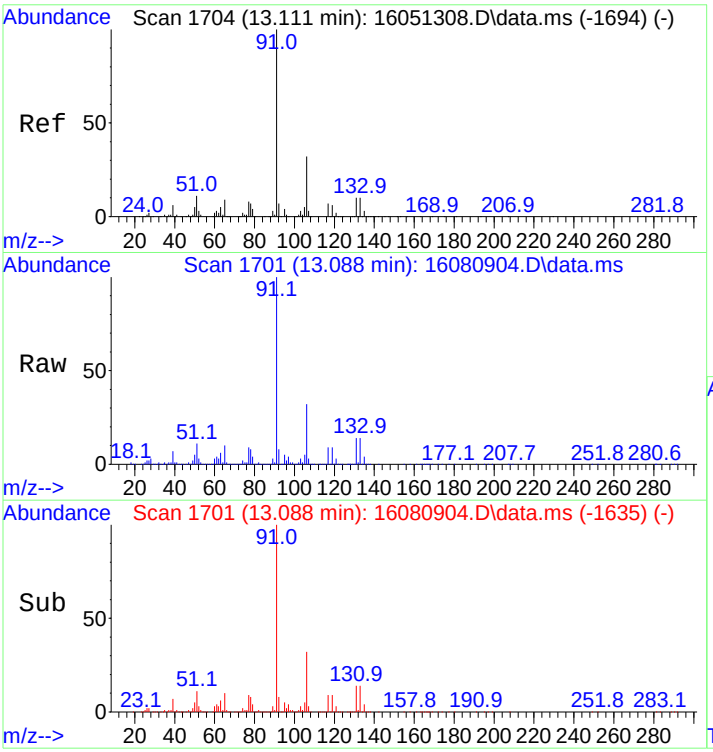


#40
1,1,1,2-Tetrachloroethane
Concen: 238.58 ng
RT: 13.081 min Scan# 1700
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:131 Resp: 204678

Ion	Ratio	Lower	Upper
131	100		
133	97.2	77.8	116.6
117	67.3	57.1	85.7
119	67.1	54.3	81.5

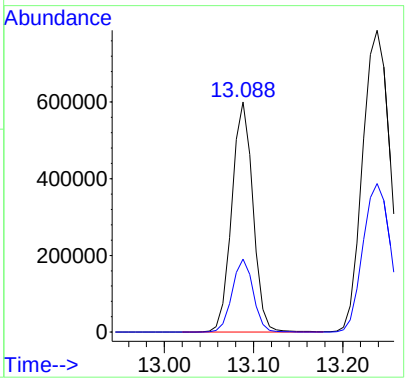


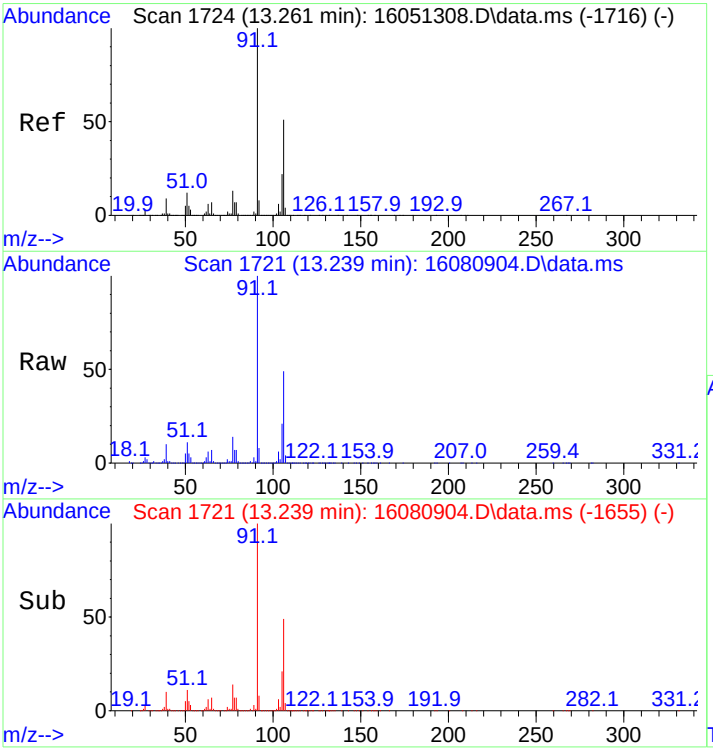


#41
Ethylbenzene
Concen: 223.08 ng
RT: 13.088 min Scan# 1701
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 996927

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.5	38.3

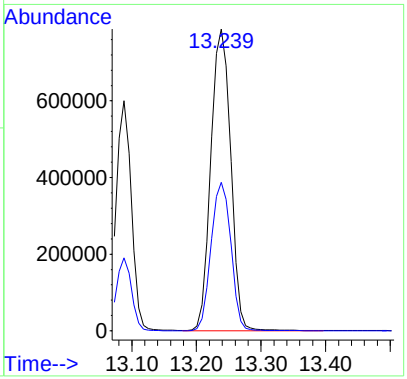


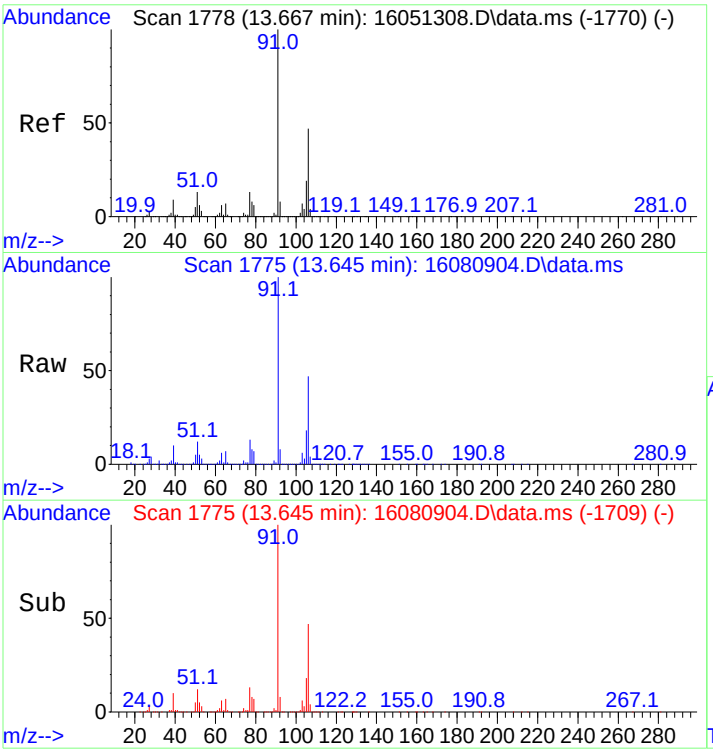


#42
M&P-Xylene
Concen: 443.80 ng
RT: 13.239 min Scan# 1721
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 1686660

Ion	Ratio	Lower	Upper
91	100		
106	49.1	40.4	60.6

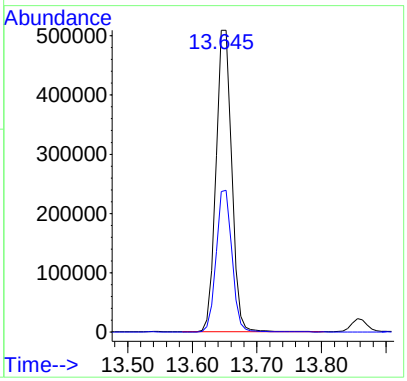


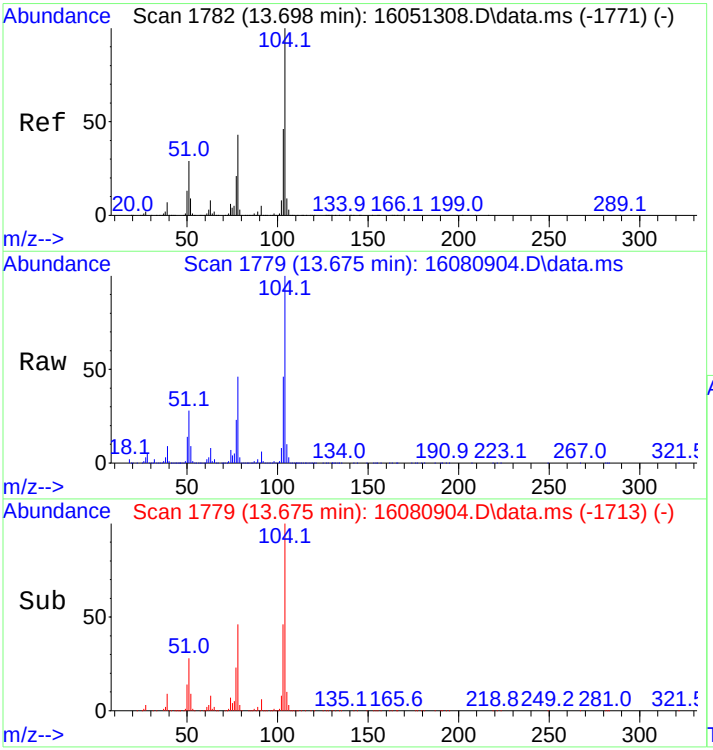


#43
O-Xylene
Concen: 218.18 ng
RT: 13.645 min Scan# 1775
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 859525

Ion	Ratio	Lower	Upper
91	100		
106	47.1	38.2	57.2

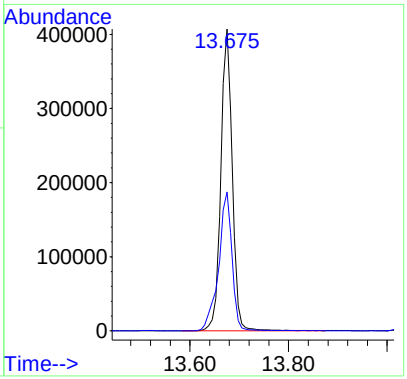


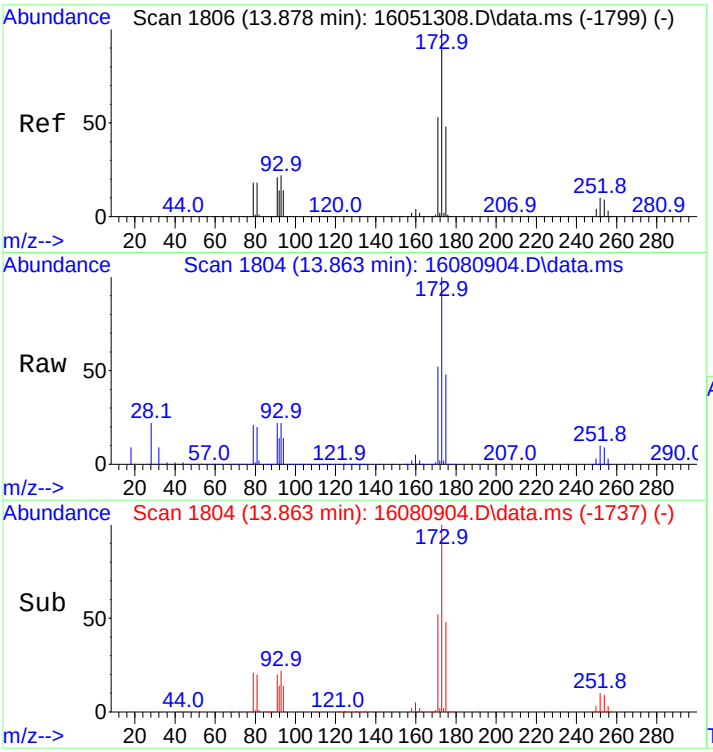


#44
Styrene
Concen: 195.74 ng
RT: 13.675 min Scan# 1779
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:104 Resp: 658253

Ion	Ratio	Lower	Upper
104	100		
78	53.9	39.8	59.6

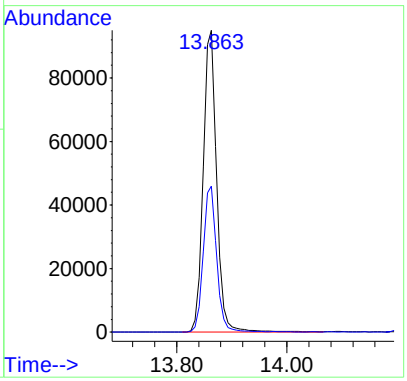


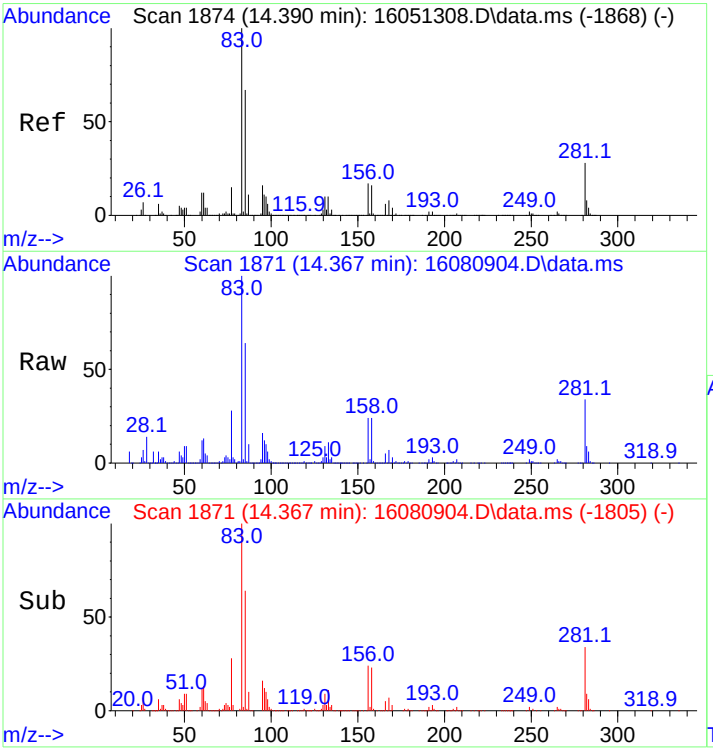


#45
Bromoform
Concen: 224.33 ng
RT: 13.863 min Scan# 1804
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:173 Resp: 163029

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.5	57.7

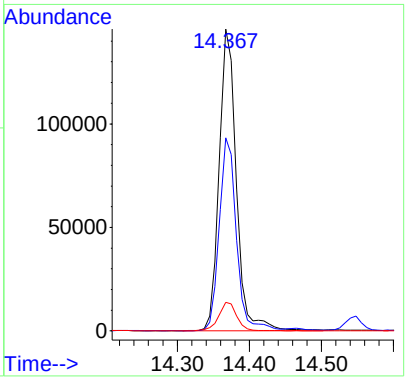


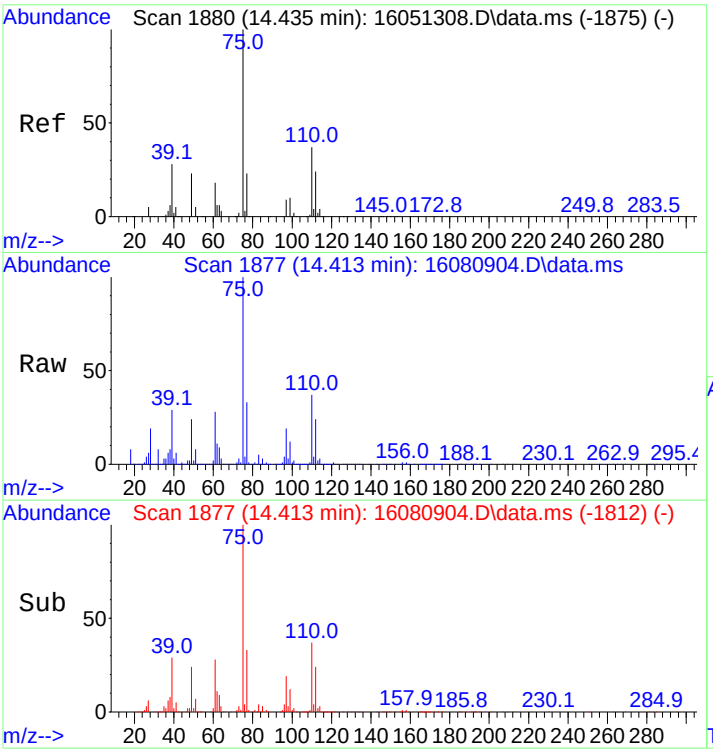


#46
1,1,2,2-Tetrachloroethane
Concen: 210.17 ng
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 241385

Ion	Ratio	Lower	Upper
83	100		
85	63.7	53.1	79.7
131	10.0	8.9	13.3

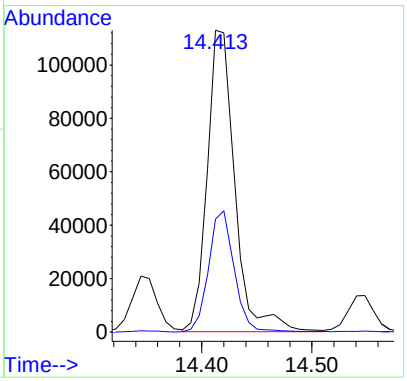


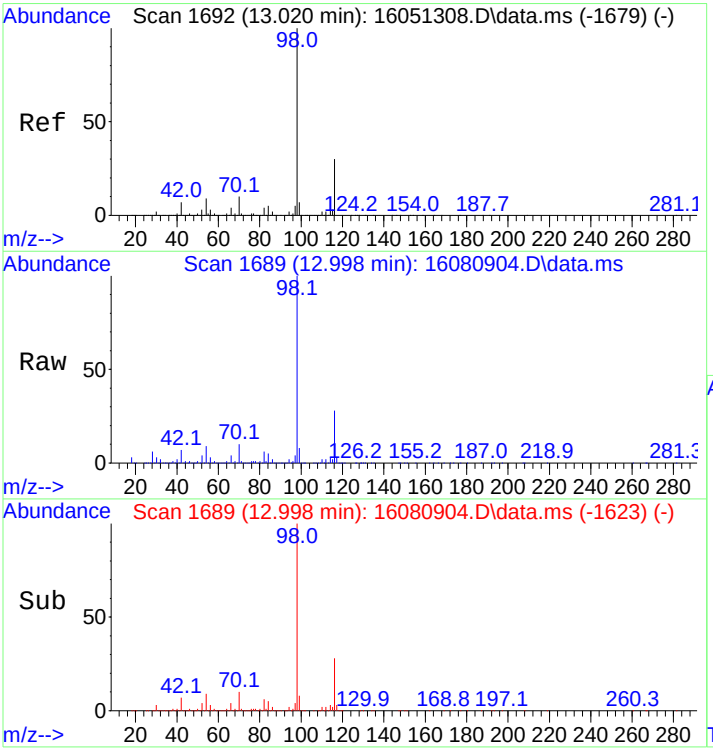


#47
1,2,3-Trichloropropane
Concen: 208.59 ng
RT: 14.413 min Scan# 1877
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 197897

Ion	Ratio	Lower	Upper
75	100		
110	37.4	30.5	45.7

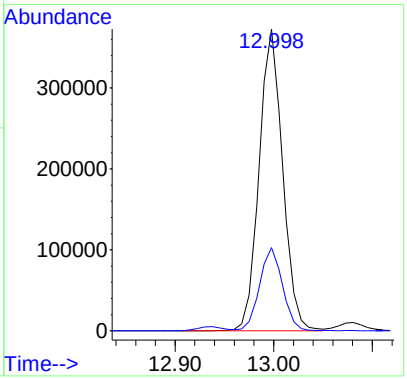


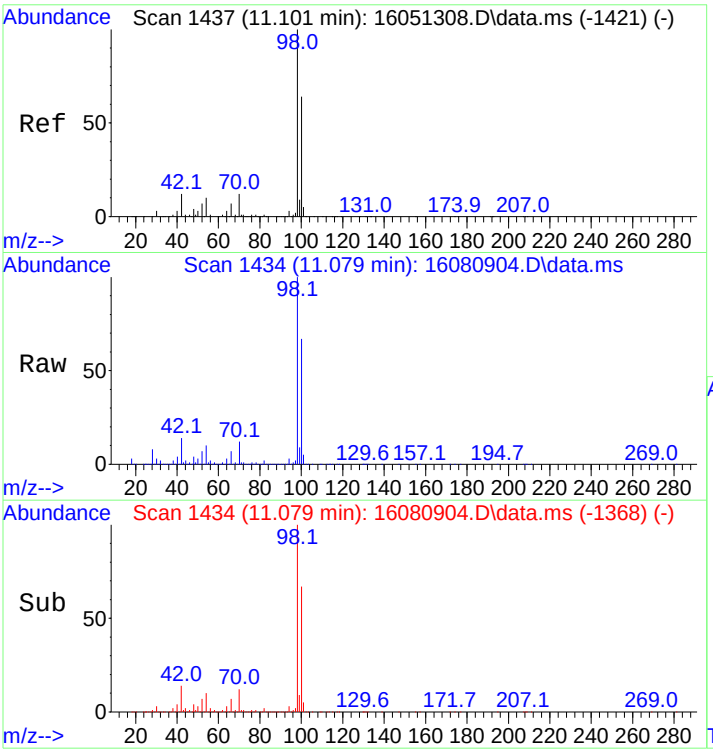


#48
d10-Ethylbenzene(SPK)
Concen: 226.64 ng
RT: 12.998 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 98 Resp: 617865

Ion	Ratio	Lower	Upper
98	100		
116	27.2	23.4	35.0

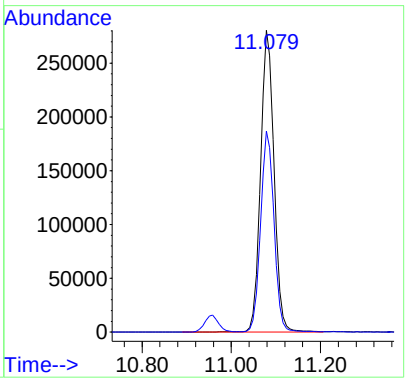


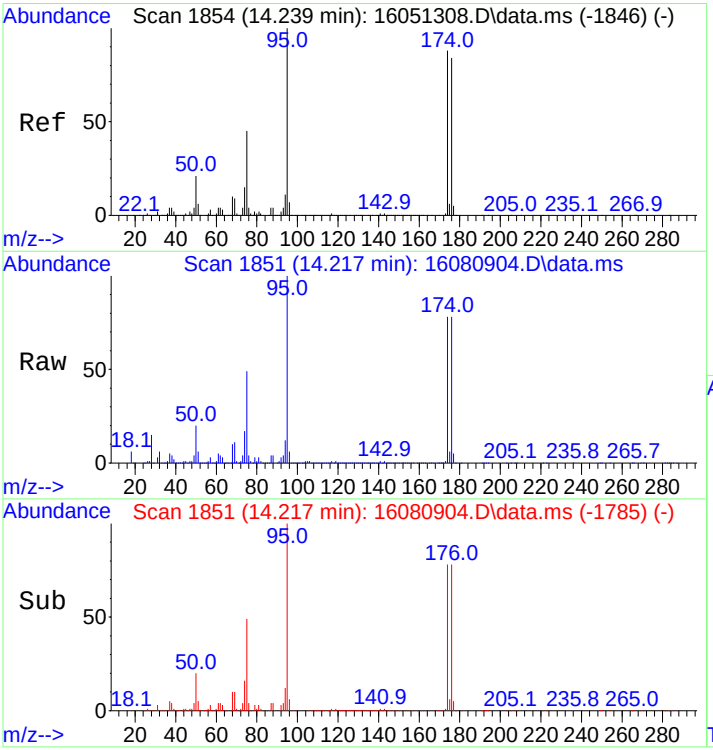


#49
d8-Toluene(SURR)
Concen: 252.22 ng
RT: 11.079 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 98 Resp: 592610

Ion	Ratio	Lower	Upper
98	100		
100	66.5	56.0	84.0

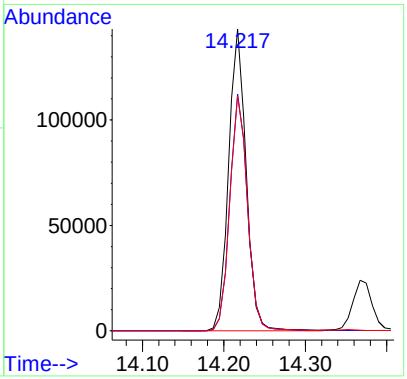


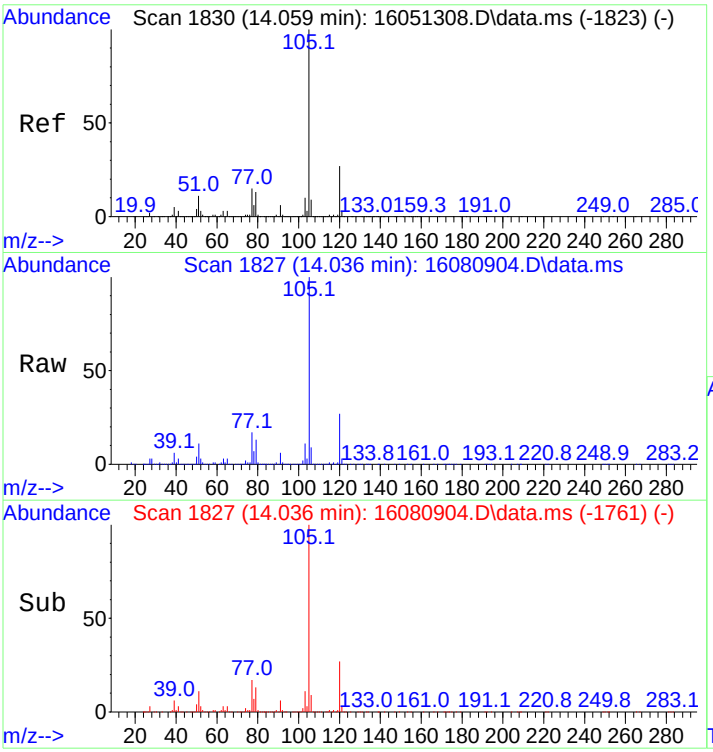


#50
4-Bromofluorobenzene(SURR)
Concen: 275.75 ng
RT: 14.217 min Scan# 1851
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 95 Resp: 215413

Ion	Ratio	Lower	Upper
95	100		
174	79.2	67.8	101.8
176	78.5	64.8	97.2

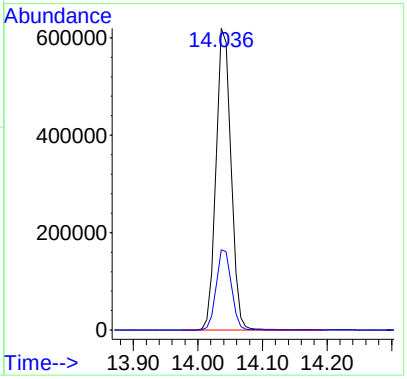


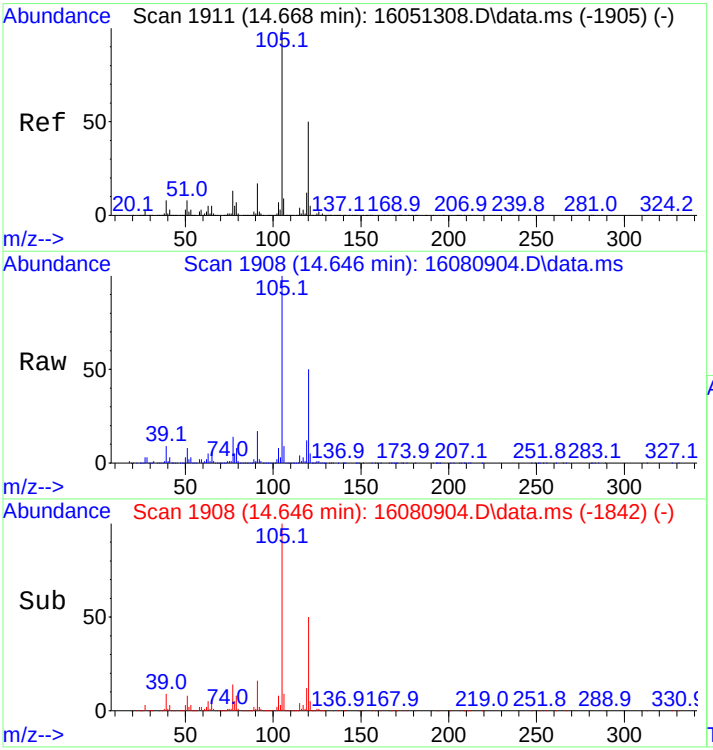


#51
Isopropylbenzene
Concen: 218.75 ng
RT: 14.036 min Scan# 1827
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 1001563

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.4	32.2

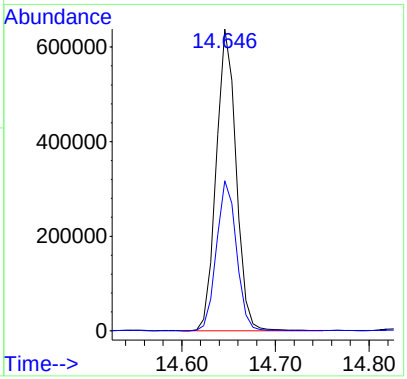


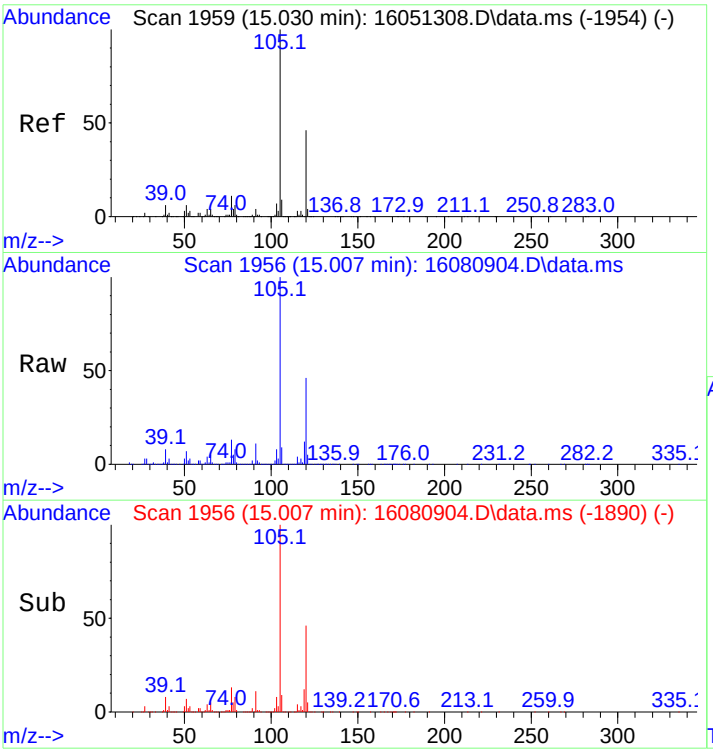


#52
1,3,5-Trimethylbenzene
Concen: 210.91 ng
RT: 14.646 min Scan# 1908
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 941133

Ion	Ratio	Lower	Upper
105	100		
120	50.1	39.9	59.9

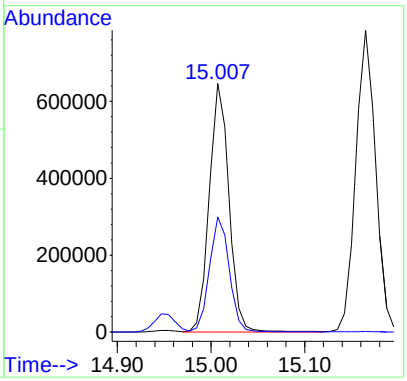


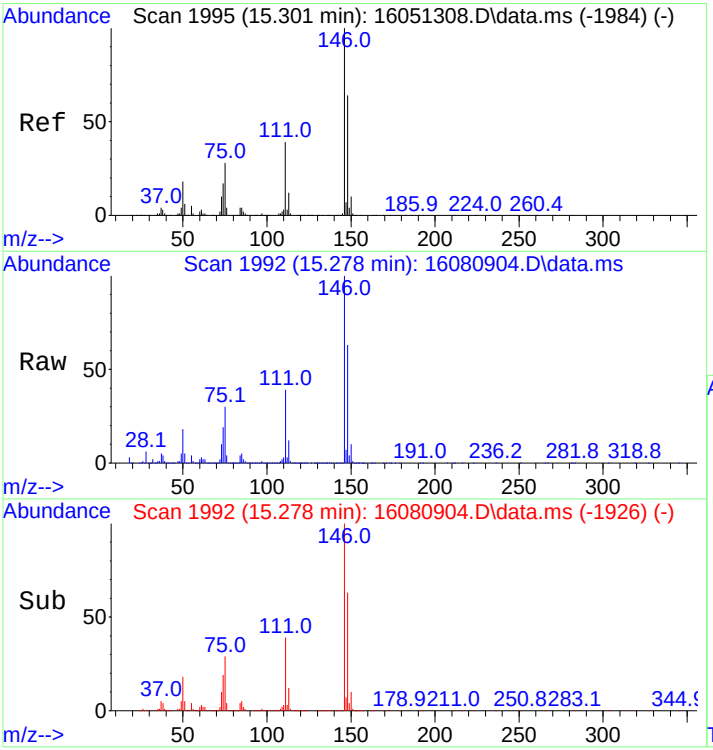


#53
1,2,4-Trimethylbenzene
Concen: 213.99 ng
RT: 15.007 min Scan# 1956
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 942808

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.5	56.3

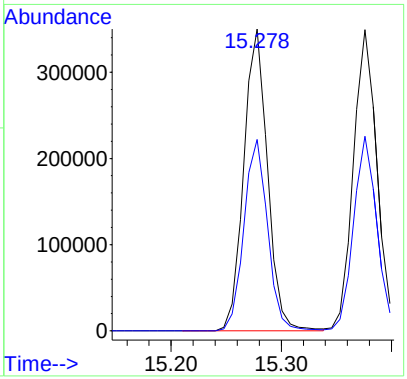


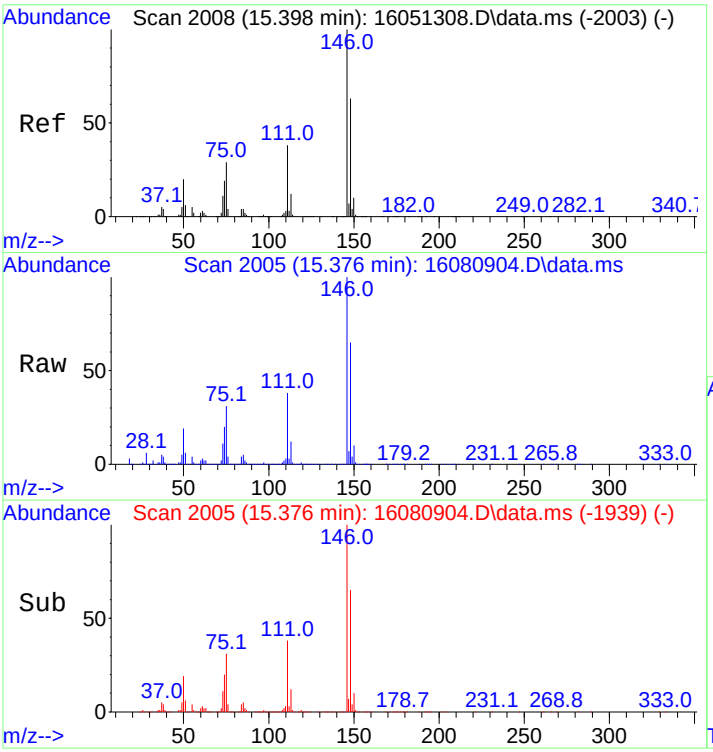


#54
1,3-Dichlorobenzene
Concen: 227.50 ng
RT: 15.278 min Scan# 1992
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:146 Resp: 523110

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	76.0

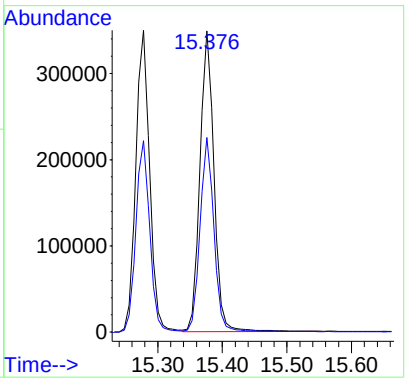


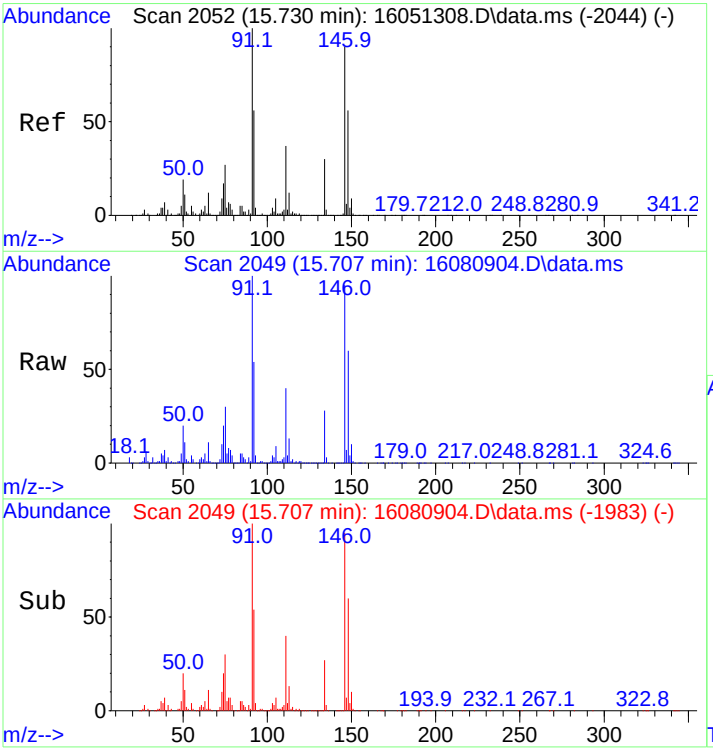


#55
1,4-Dichlorobenzene
Concen: 217.26 ng
RT: 15.376 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:146 Resp: 528041

Ion	Ratio	Lower	Upper
146	100		
148	64.1	49.9	74.9

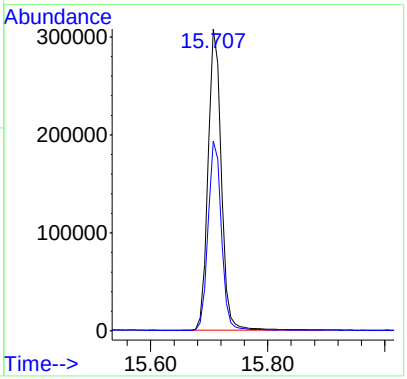


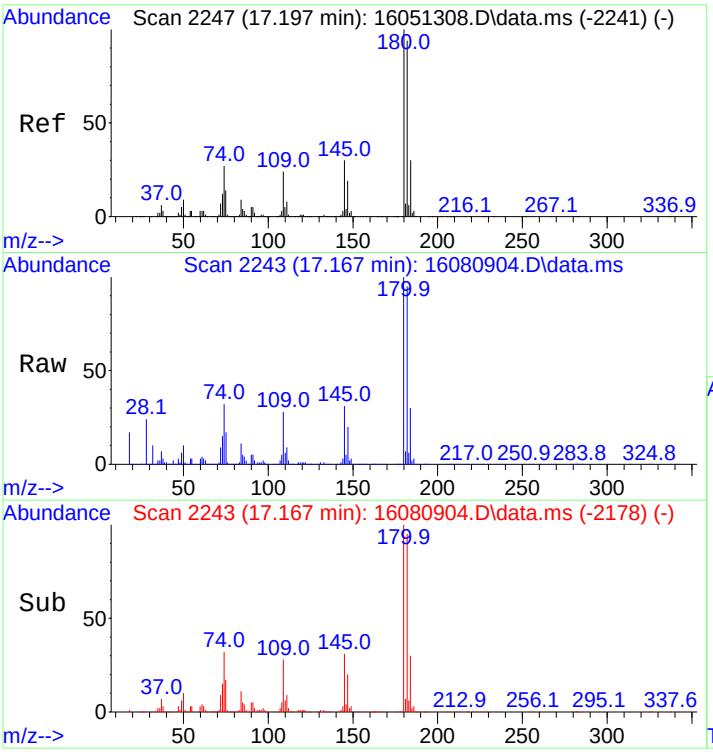


#56
1,2-Dichlorobenzene
Concen: 222.70 ng
RT: 15.707 min Scan# 2049
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:146 Resp: 484342

Ion	Ratio	Lower	Upper
146	100		
148	63.8	49.9	74.9

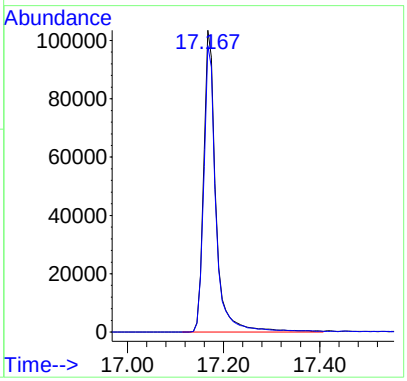


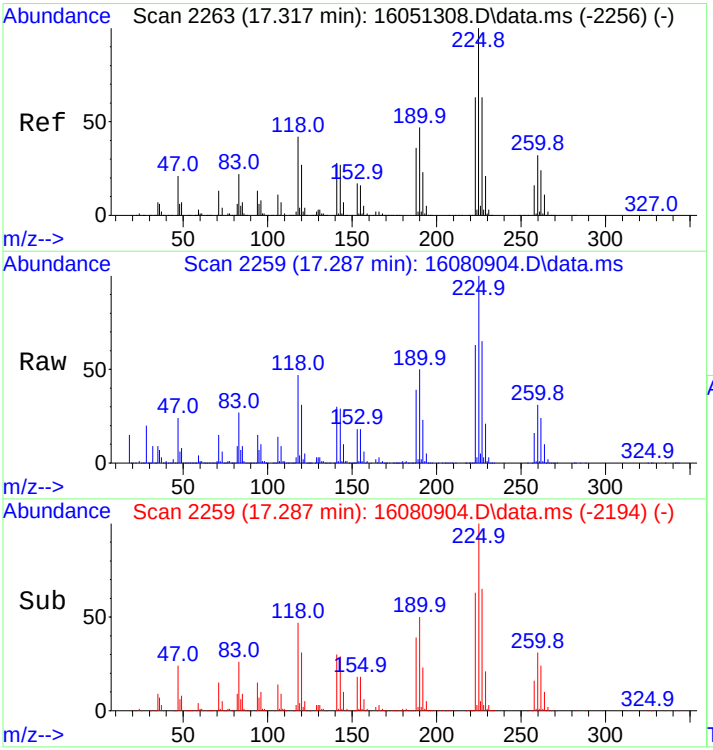


#57
1,2,4-Trichlorobenzene
Concen: 100.05 ng
RT: 17.167 min Scan# 2243
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:180 Resp: 184556

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.0	112.4

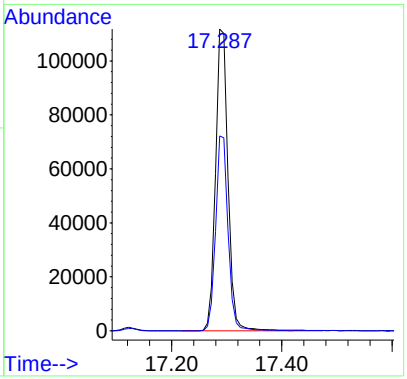


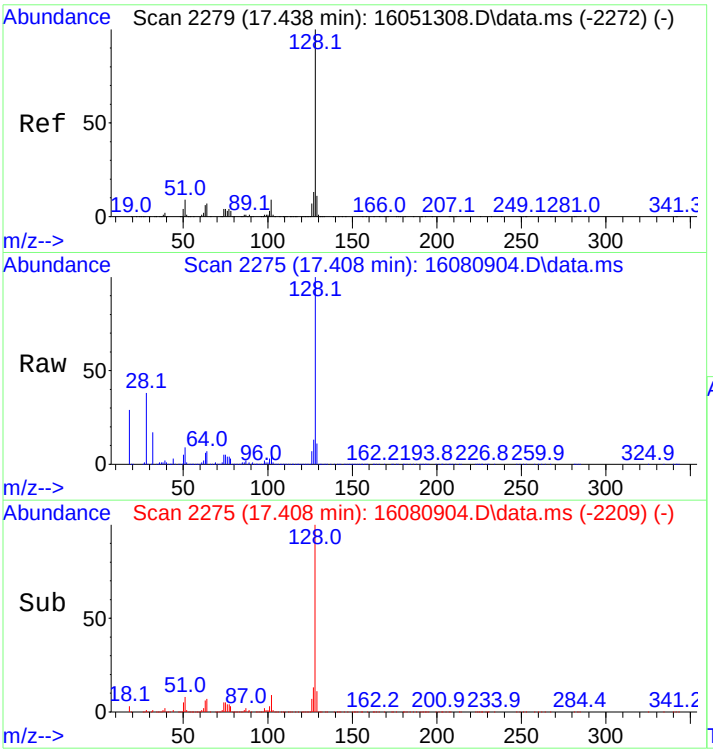


#58
Hexachlorobutadiene
Concen: 181.20 ng
RT: 17.287 min Scan# 2259
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:225 Resp: 175691

Ion	Ratio	Lower	Upper
225	100		
227	64.3	51.1	76.7

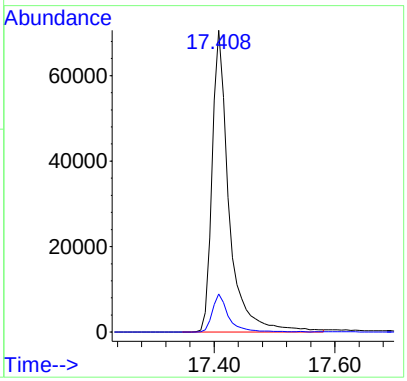


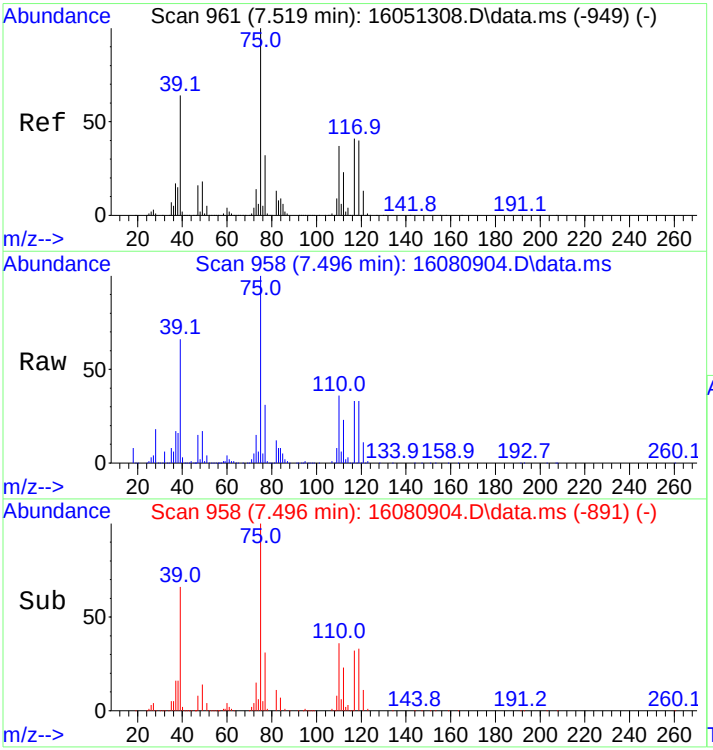


#59
Naphthalene
Concen: 30.28 ng
RT: 17.408 min Scan# 2275
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:128 Resp: 137094

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

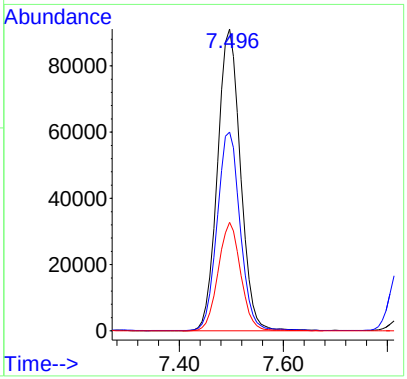


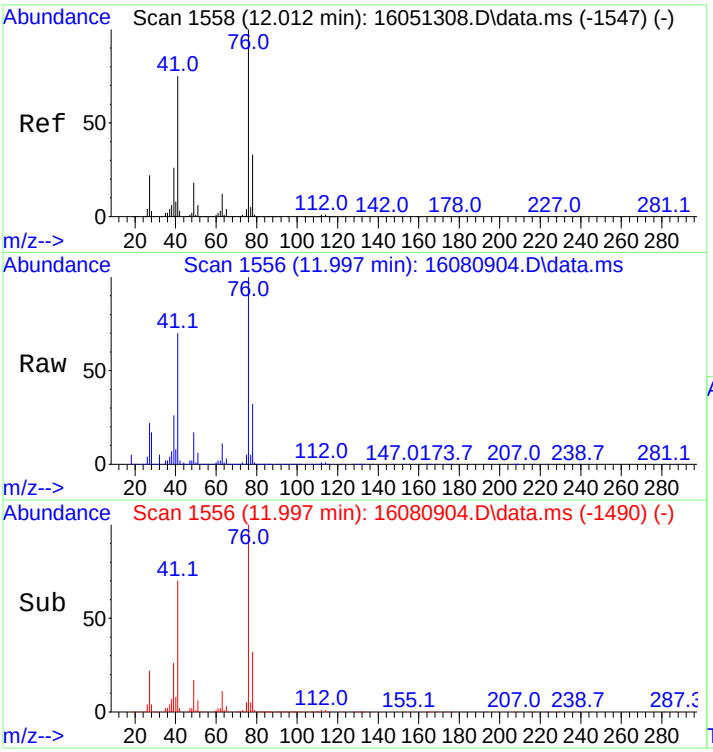


#60
1,1-Dichloropropene
Concen: 221.84 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 279625

Ion	Ratio	Lower	Upper
75	100		
39	65.9	51.8	77.6
110	35.2	29.3	43.9

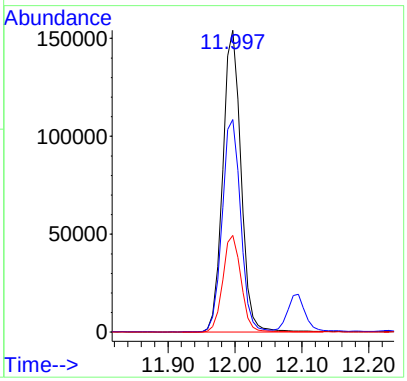


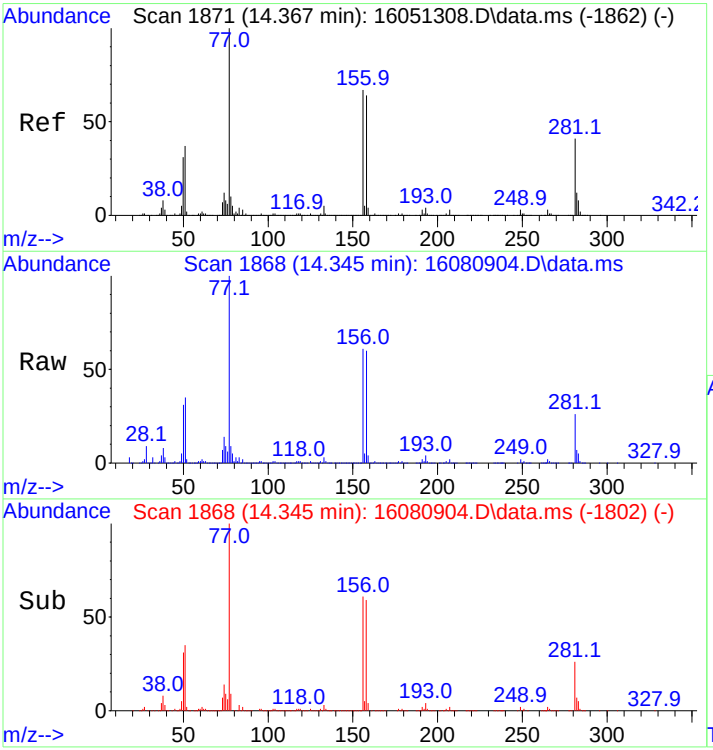


#61
1,3-Dichloropropane
Concen: 207.43 ng
RT: 11.997 min Scan# 1556
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 76 Resp: 291616

Ion	Ratio	Lower	Upper
76	100		
41	71.3	58.2	87.4
78	32.2	26.1	39.1

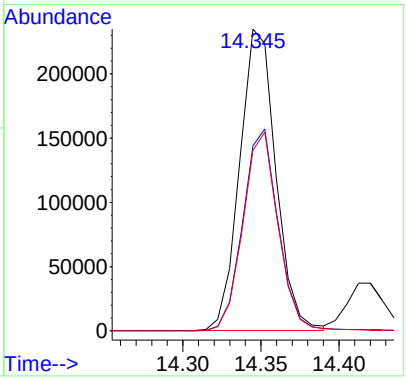


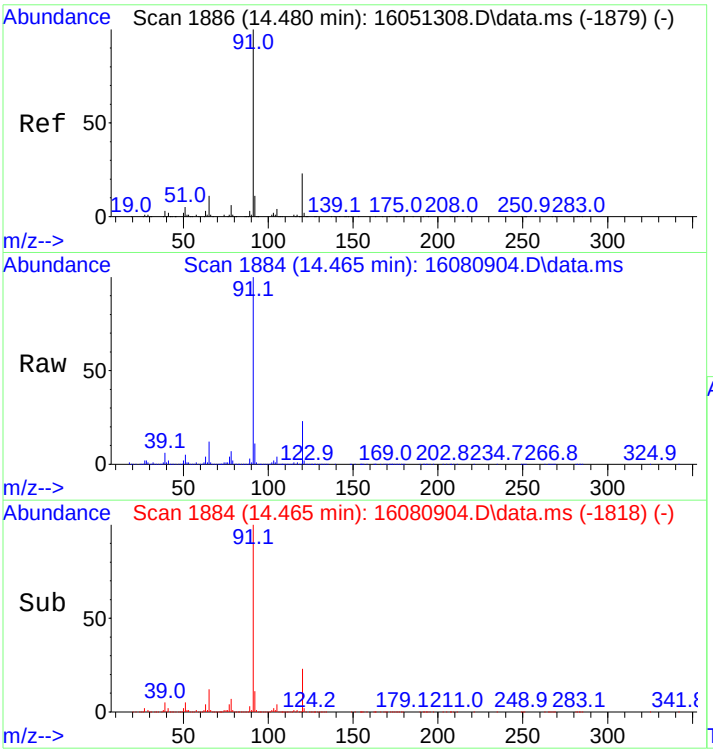


#62
Bromobenzene
Concen: 232.19 ng
RT: 14.345 min Scan# 1868
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 77 Resp: 378328

Ion	Ratio	Lower	Upper
77	100		
156	66.2	55.0	82.4
158	64.4	53.3	79.9

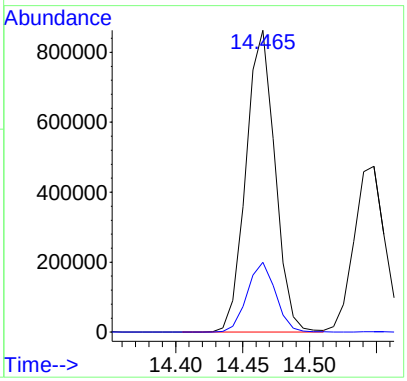


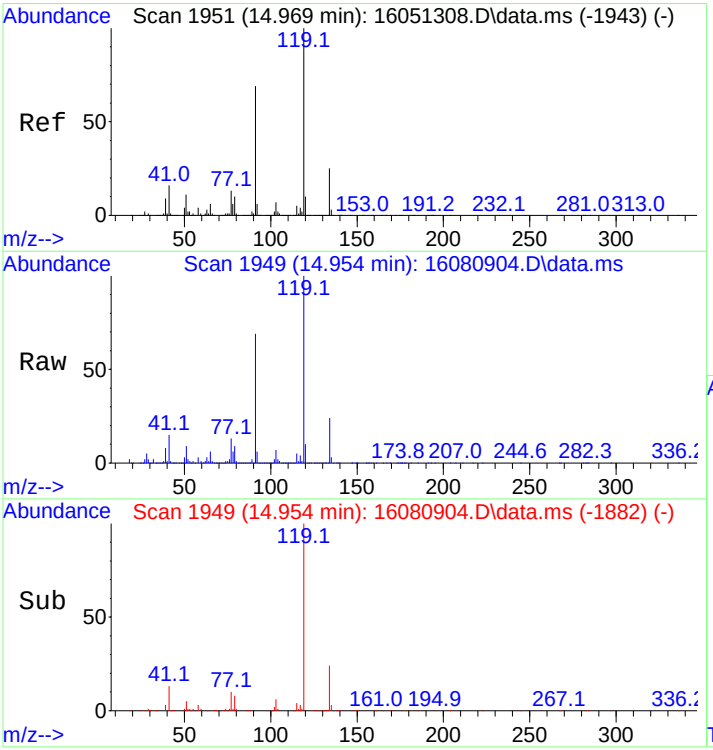


#63
n-Propylbenzene
Concen: 225.16 ng
RT: 14.465 min Scan# 1884
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 1304658

Ion	Ratio	Lower	Upper
91	100		
120	22.7	18.6	28.0

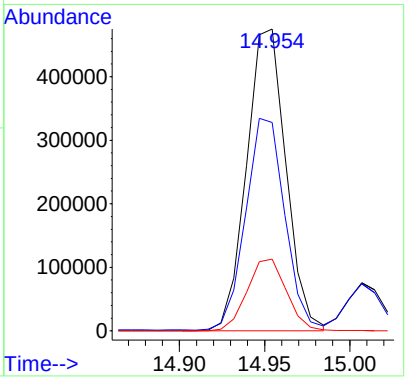


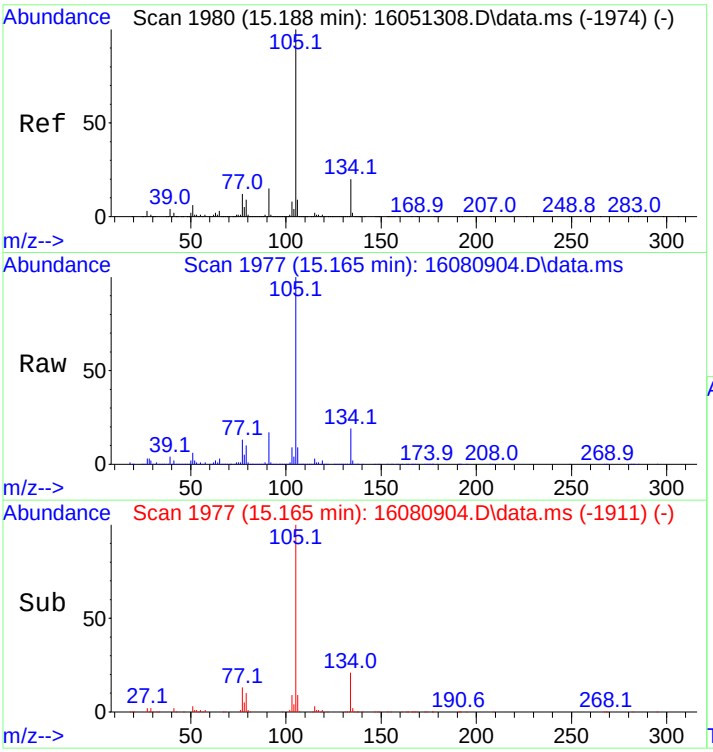


#64
tert-Butylbenzene
Concen: 220.94 ng
RT: 14.954 min Scan# 1949
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:119 Resp: 766344

Ion	Ratio	Lower	Upper
119	100		
91	69.7	54.0	81.0
134	24.0	19.9	29.9

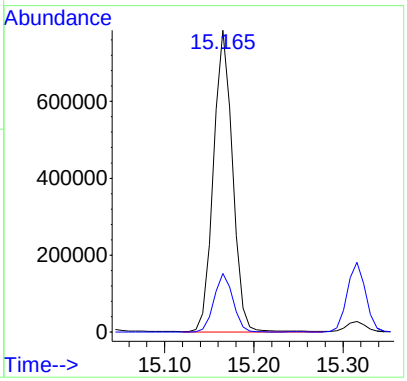


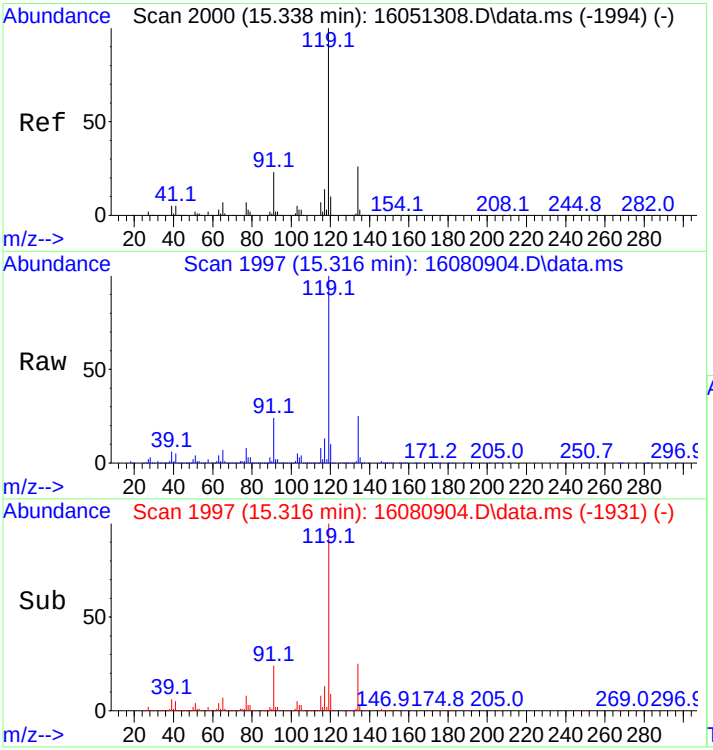


#65
sec-Butylbenzene
Concen: 218.17 ng
RT: 15.165 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 1166159

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.7	23.5

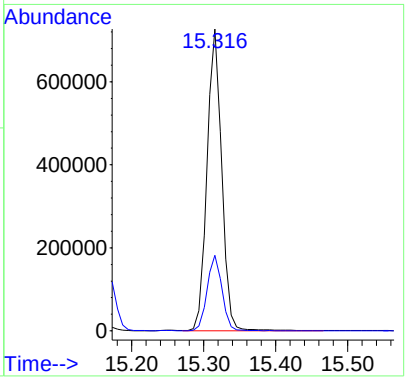


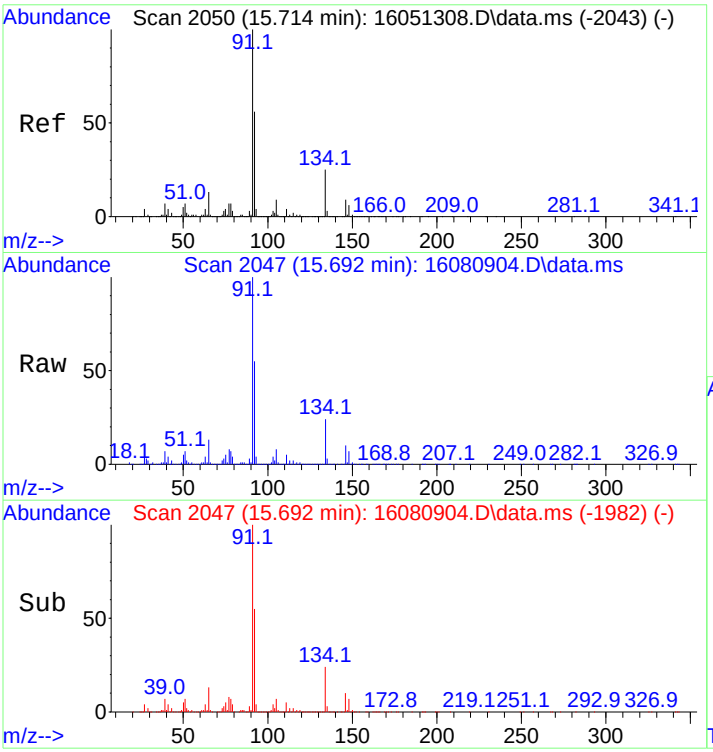


#66
p-Isopropyltoluene
Concen: 220.70 ng
RT: 15.316 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:119 Resp: 1040003

Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.6	31.0

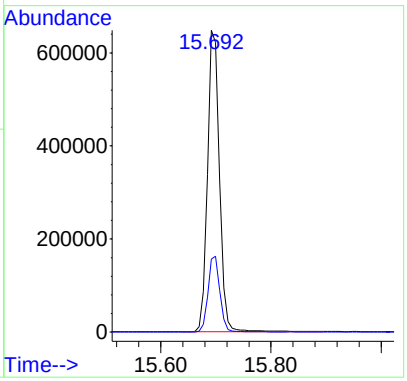


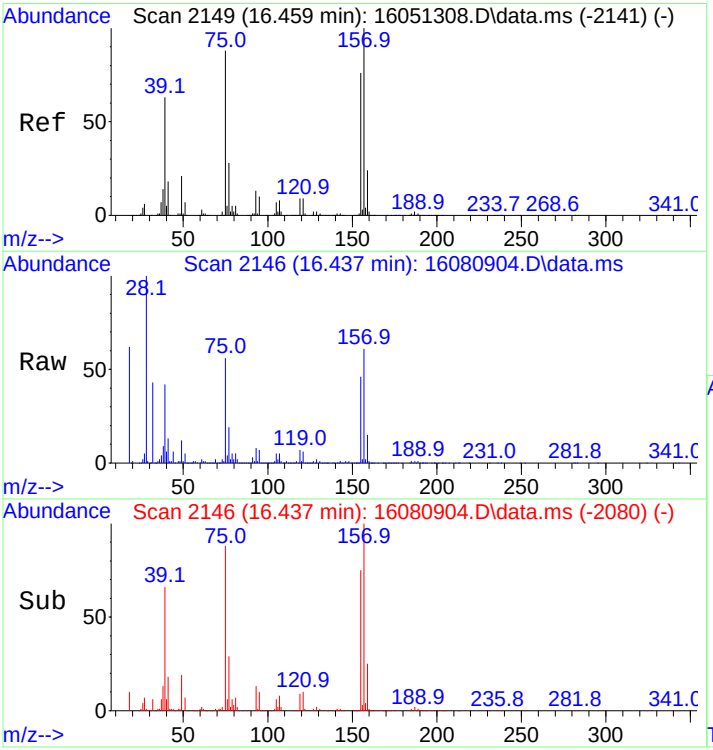


#67
n-Butylbenzene
Concen: 217.25 ng
RT: 15.692 min Scan# 2047
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 989699

Ion	Ratio	Lower	Upper
91	100		
134	24.9	21.0	31.6

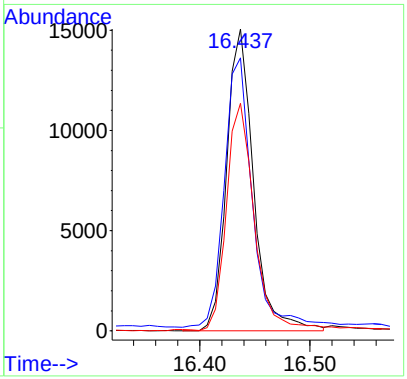




#68
1,2-Dibromo-3-chloropropane
Concen: 88.97 ng
RT: 16.437 min Scan# 2146
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:157 Resp: 25450

Ion	Ratio	Lower	Upper
157	100		
75	94.0	68.6	103.0
155	79.6	62.2	93.2



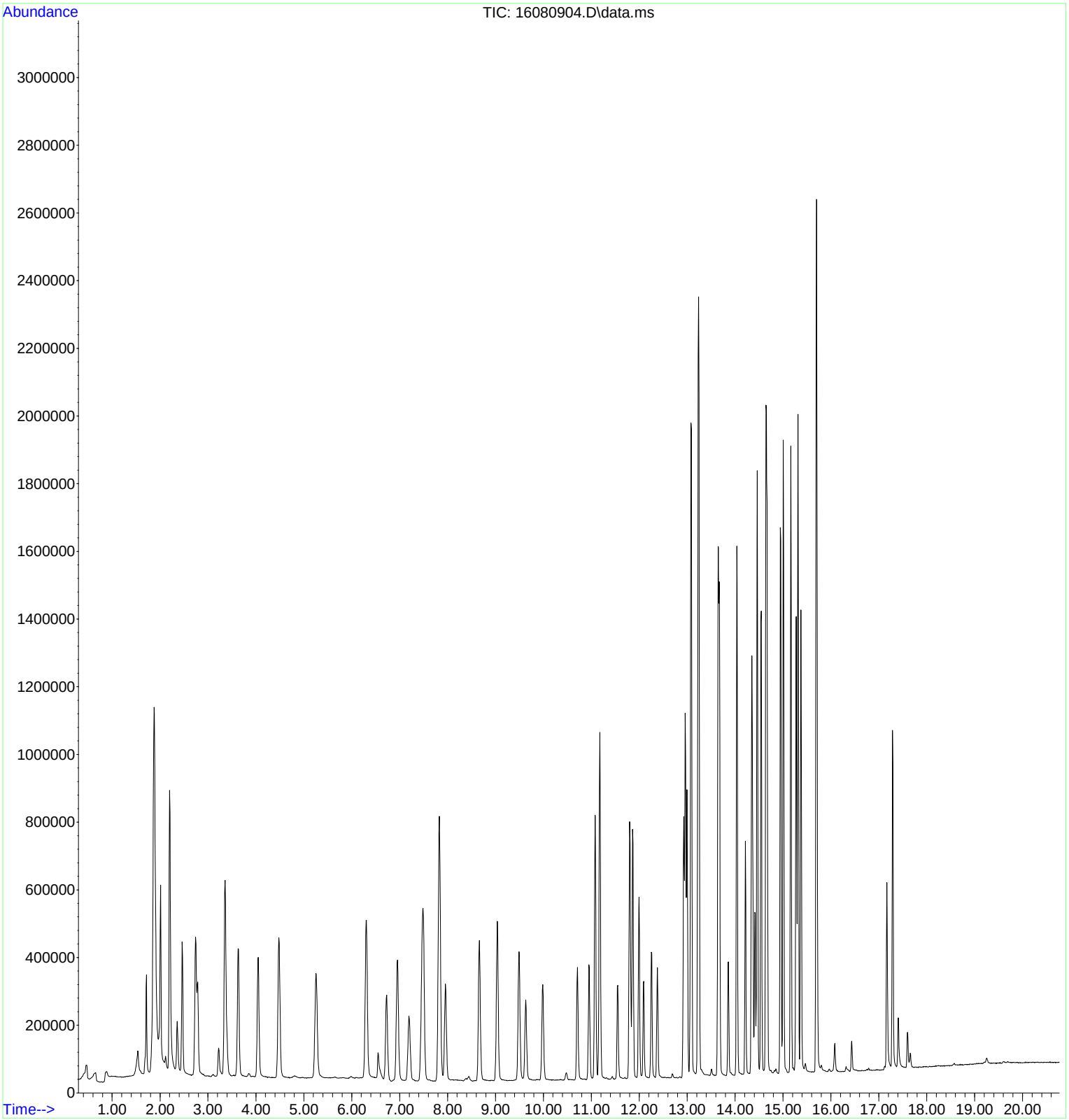
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

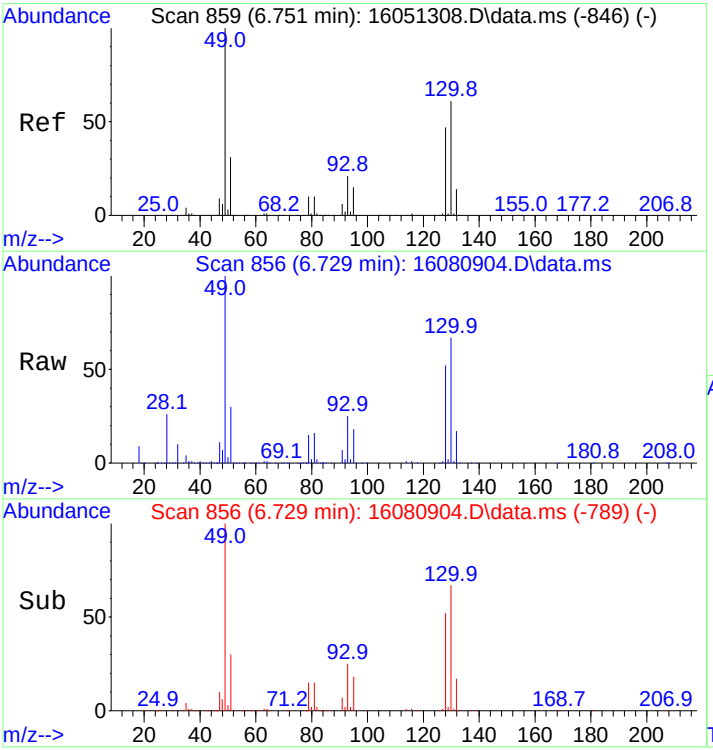
The chromatogram that follows includes peak integrations manually modified by the analyst

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608\160809\
Data File : 16080904.D
Acq On : 9 Aug 2016 12:14 pm
Operator : SG Instrument MSD-3
Sample : 250ng control STD
Misc : Coder SG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 14:40:32 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

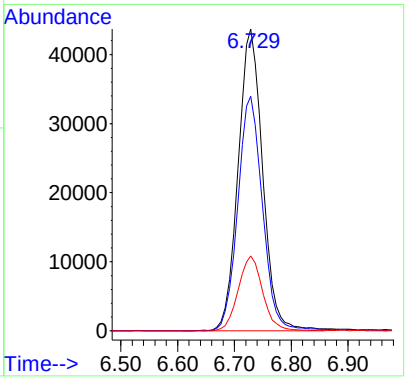


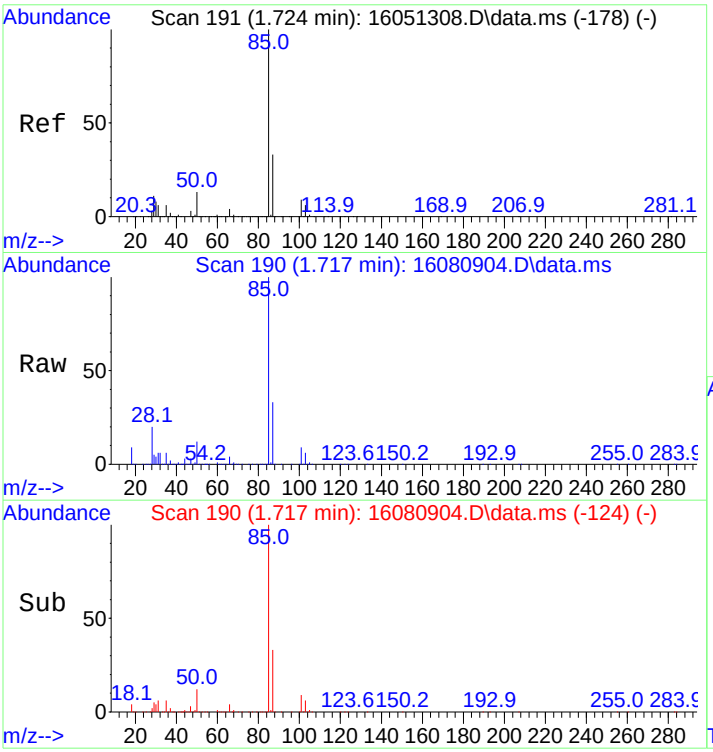


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.729 min Scan# 856
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:130 Resp: 131097

Ion	Ratio	Lower	Upper
130	100		
128	78.4	63.0	94.4
132	24.8	19.9	29.9

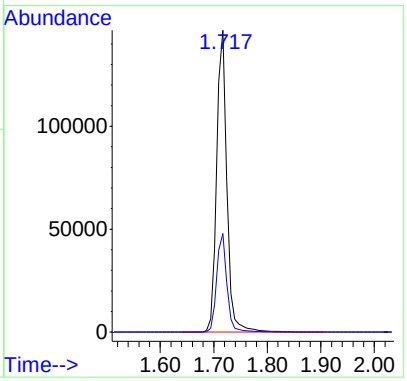


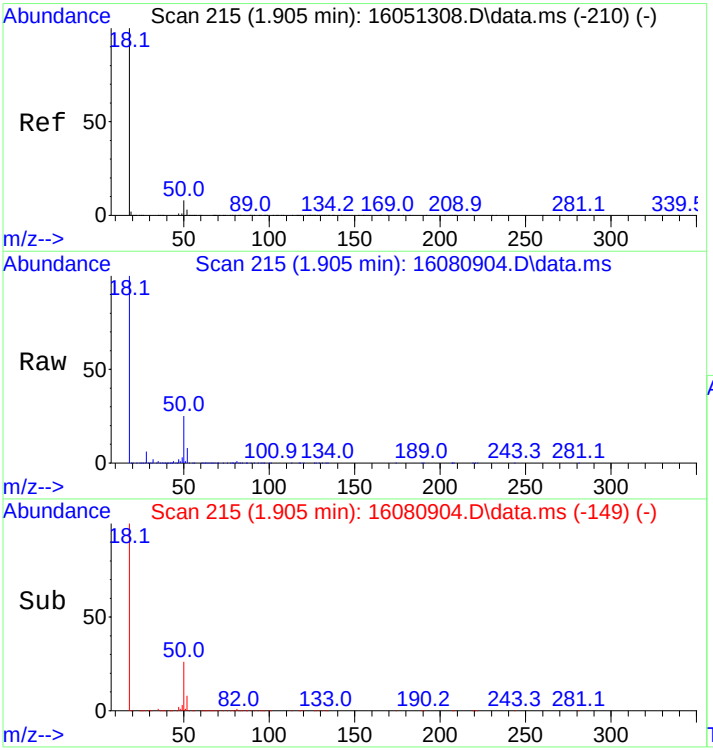


#2
Dichlorodifluoromethane
Concen: 223.30 ng
RT: 1.717 min Scan# 190
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 85 Resp: 194210

Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.0	39.0

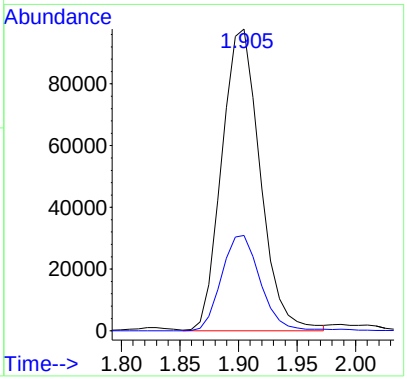


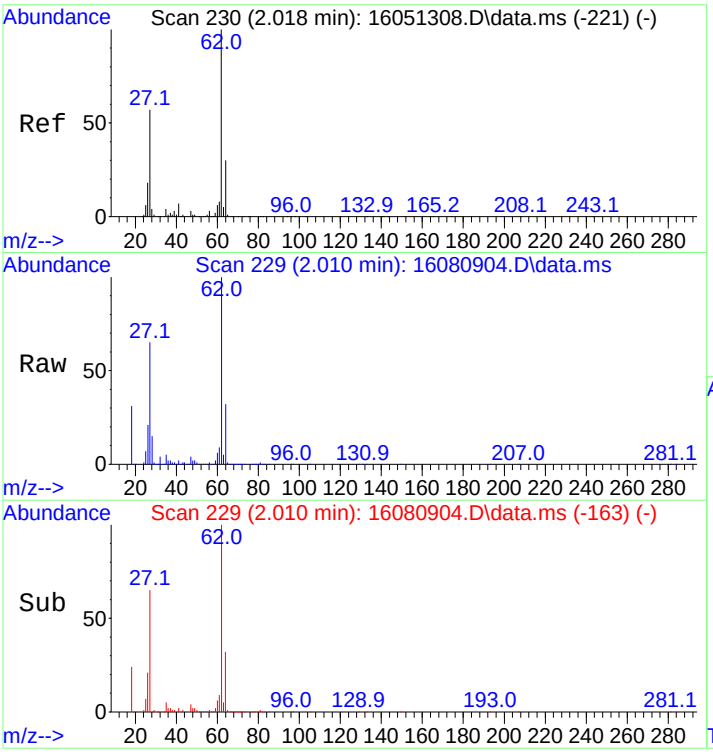


#3
Chloromethane
Concen: 216.16 ng
RT: 1.905 min Scan# 215
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 50 Resp: 222957

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.0	39.0

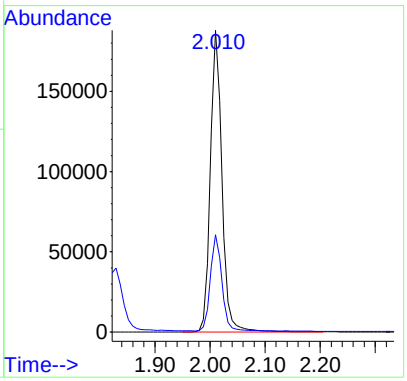


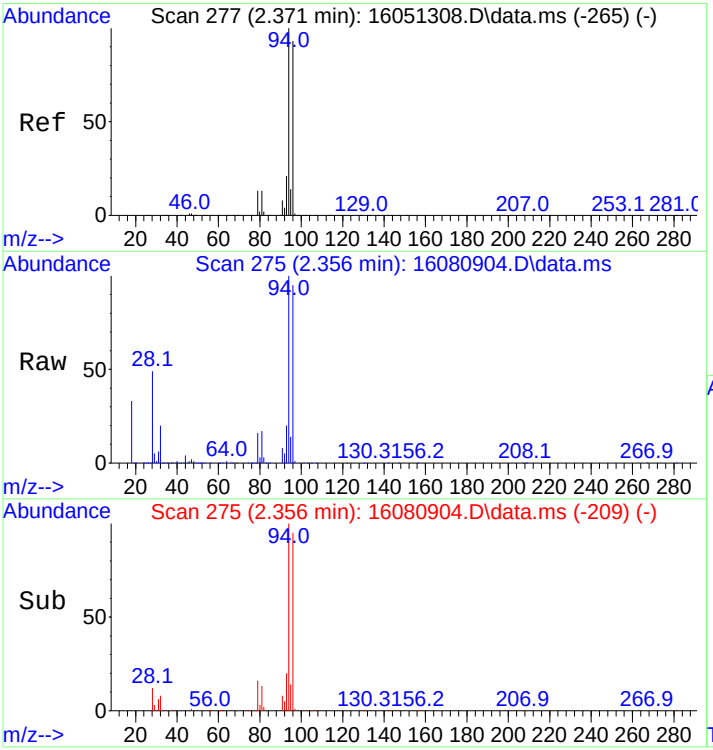


#4
Vinyl Chloride
Concen: 224.17 ng
RT: 2.010 min Scan# 229
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 62 Resp: 277893

Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.7	38.5

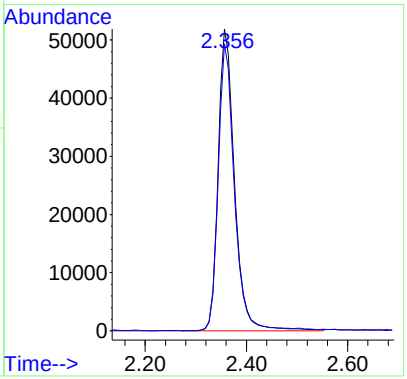


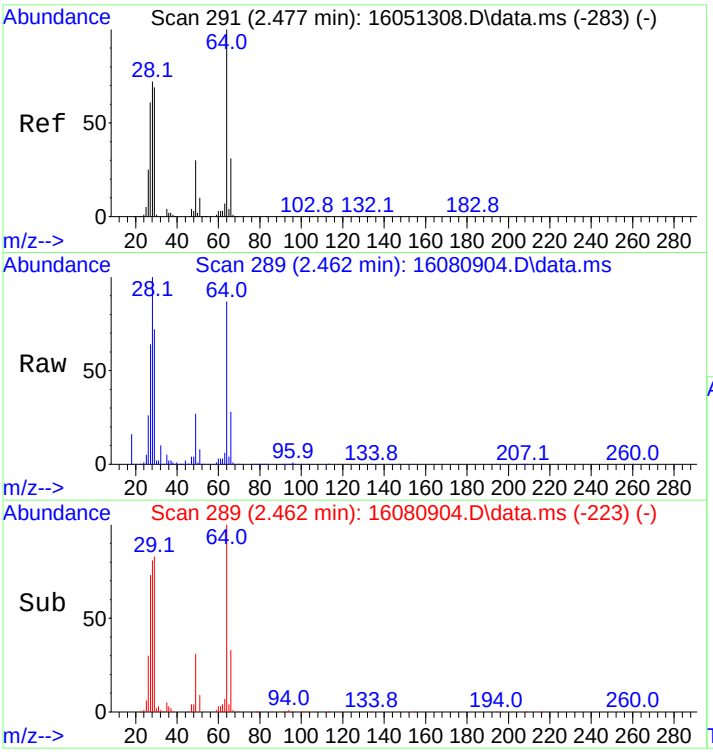


#5
Bromomethane
Concen: 212.49 ng
RT: 2.356 min Scan# 275
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 94 Resp: 117073

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.5	111.7

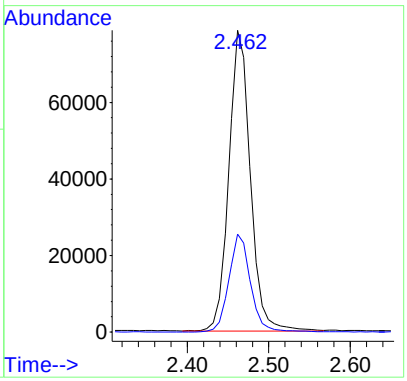


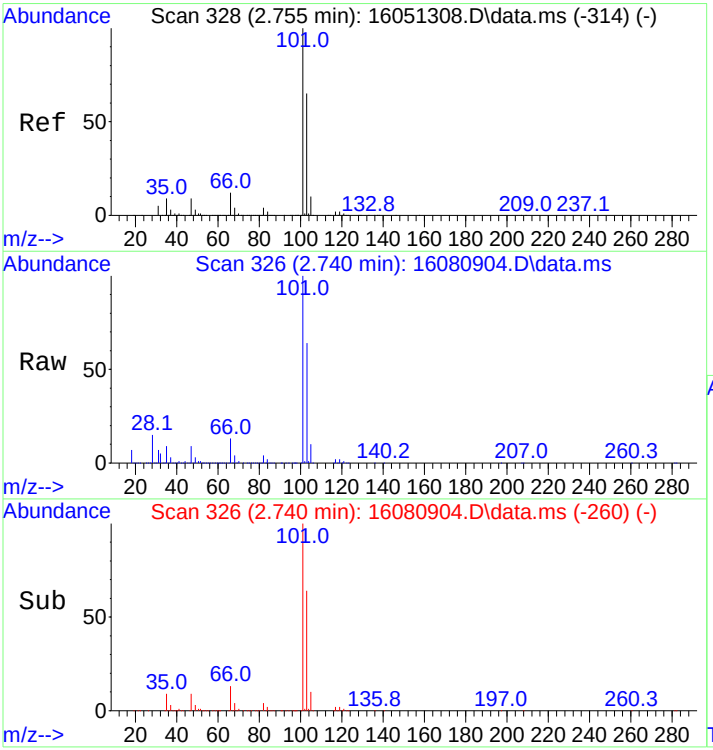


#6
Chloroethane
Concen: 223.75 ng
RT: 2.462 min Scan# 289
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 64 Resp: 144417

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.0	37.4

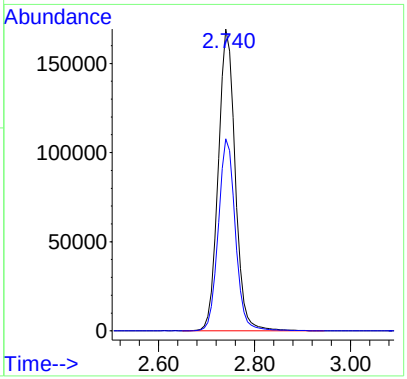


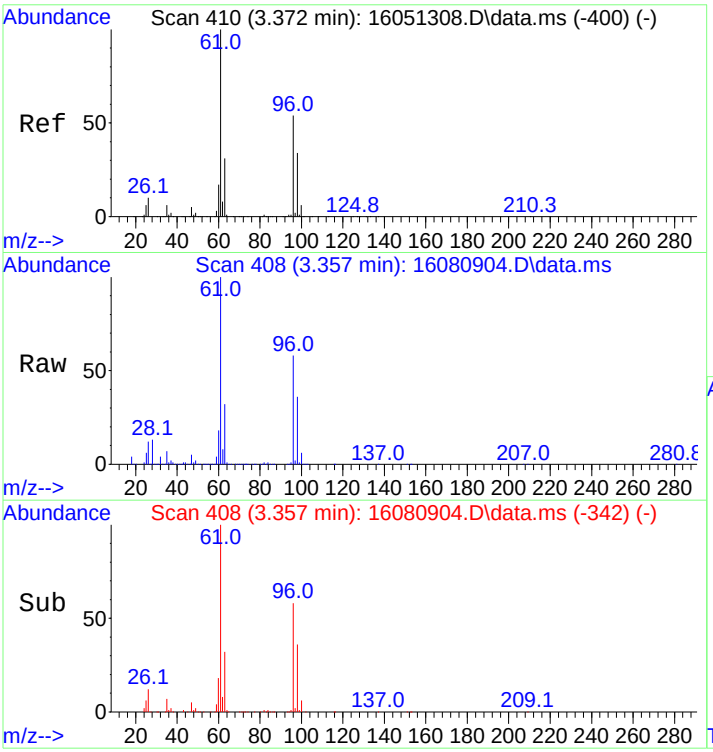


#7
Trichlorofluoromethane
Concen: 223.74 ng
RT: 2.740 min Scan# 326
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:101 Resp: 413722

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.8	77.6

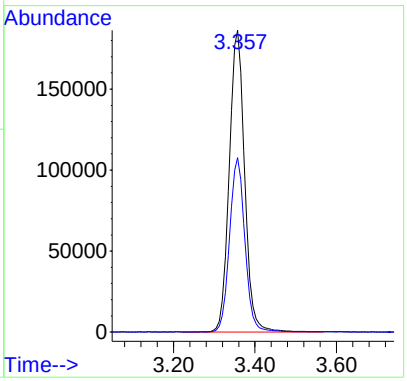


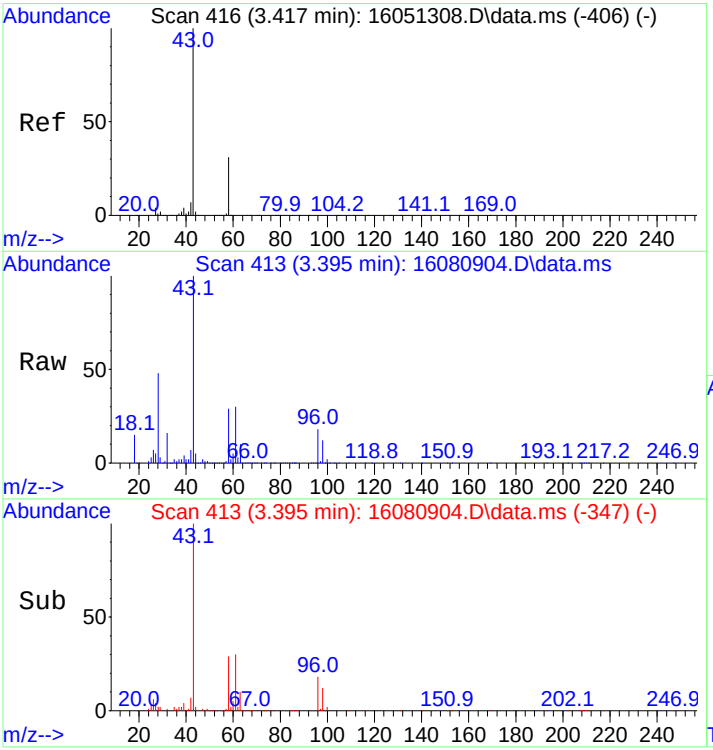


#8
1,1-Dichloroethene
Concen: 218.92 ng
RT: 3.357 min Scan# 408
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 61 Resp: 487889

Ion	Ratio	Lower	Upper
61	100		
96	57.6	44.1	66.1

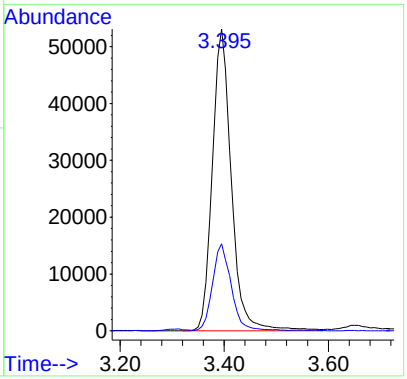


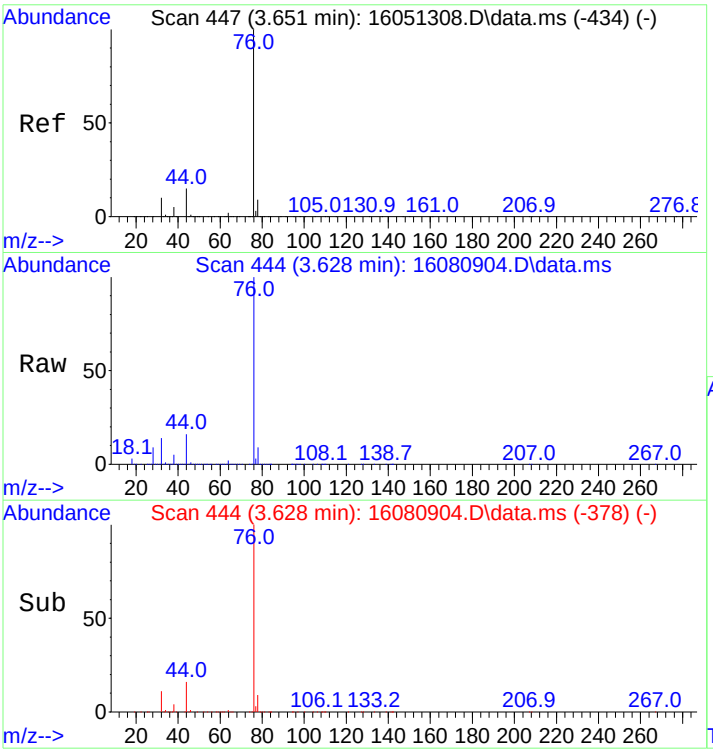


#9
Acetone
Concen: 162.39 ng
RT: 3.395 min Scan# 413
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 134695

Ion	Ratio	Lower	Upper
43	100		
58	28.3	24.7	37.1

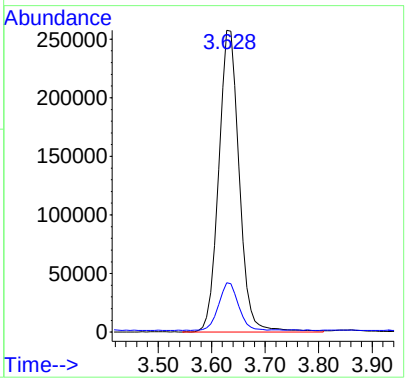


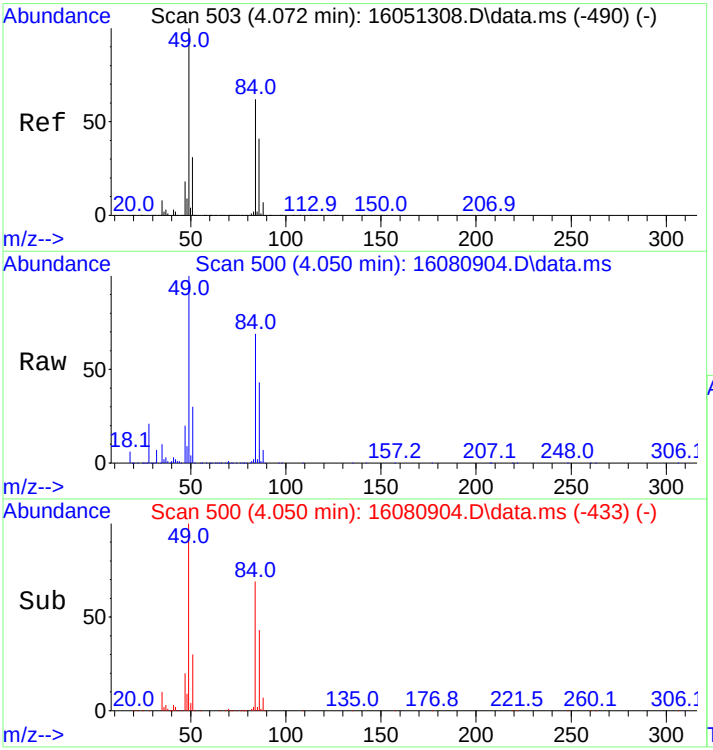


#11
Carbon disulfide
Concen: 196.70 ng
RT: 3.628 min Scan# 444
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 76 Resp: 686256

Ion	Ratio	Lower	Upper
76	100		
44	15.2	12.2	18.4

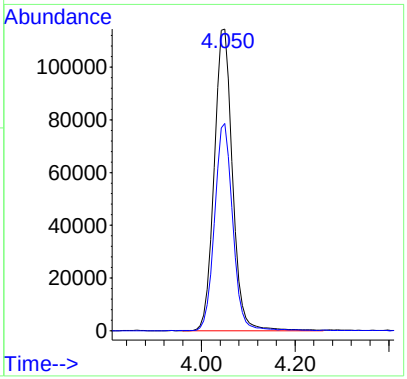


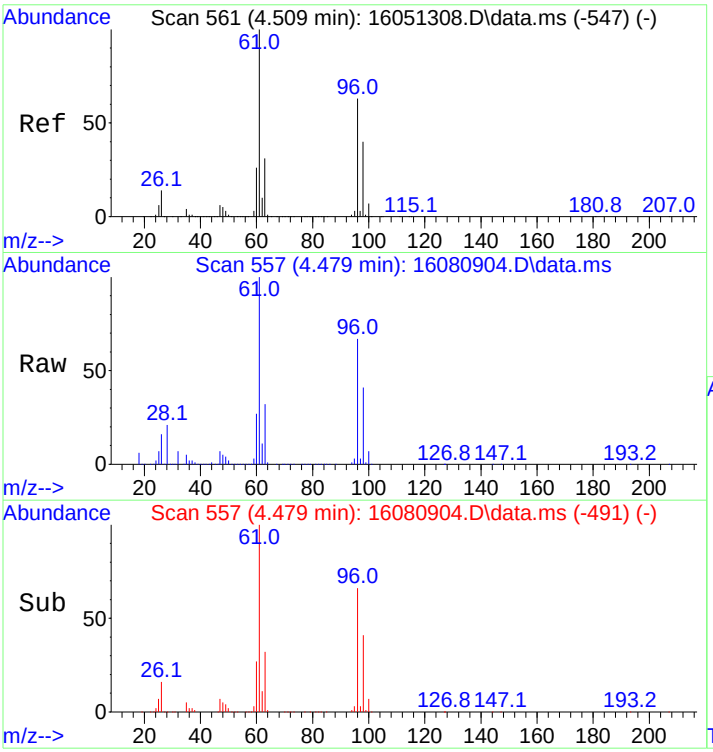


#12
Methylene Chloride
Concen: 202.21 ng
RT: 4.050 min Scan# 500
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 49 Resp: 311862

Ion	Ratio	Lower	Upper
49	100		
84	68.1	48.4	72.6

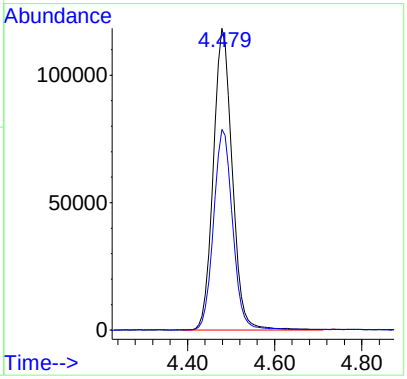


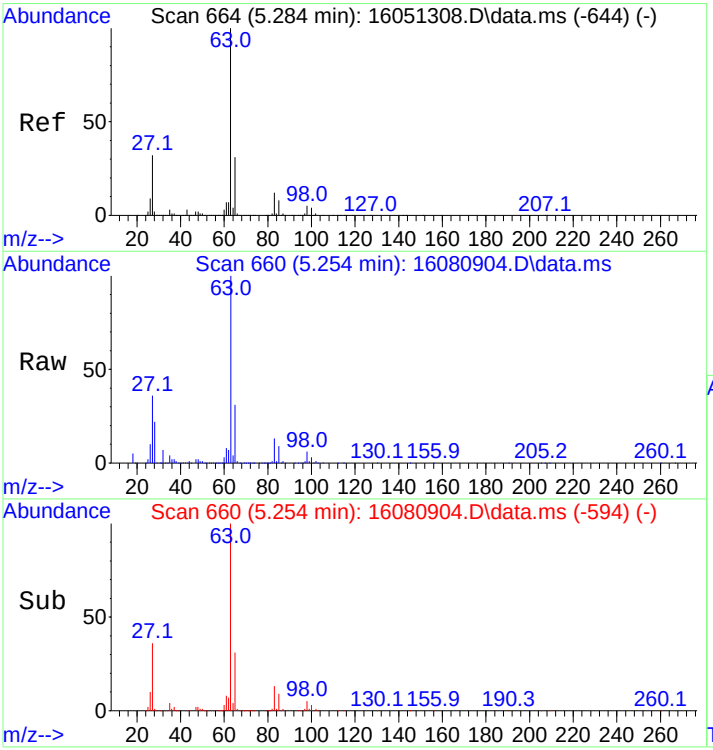


#13
trans,1,2-Dichloroethene
Concen: 241.42 ng
RT: 4.479 min Scan# 557
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 61 Resp: 357146

Ion	Ratio	Lower	Upper
61	100		
96	66.9	50.2	75.4

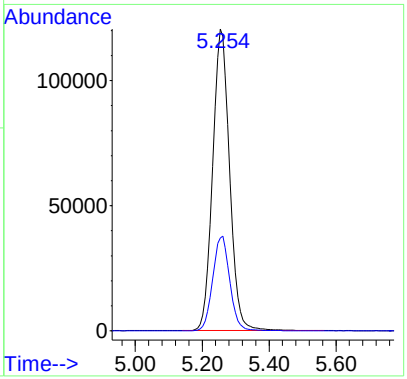


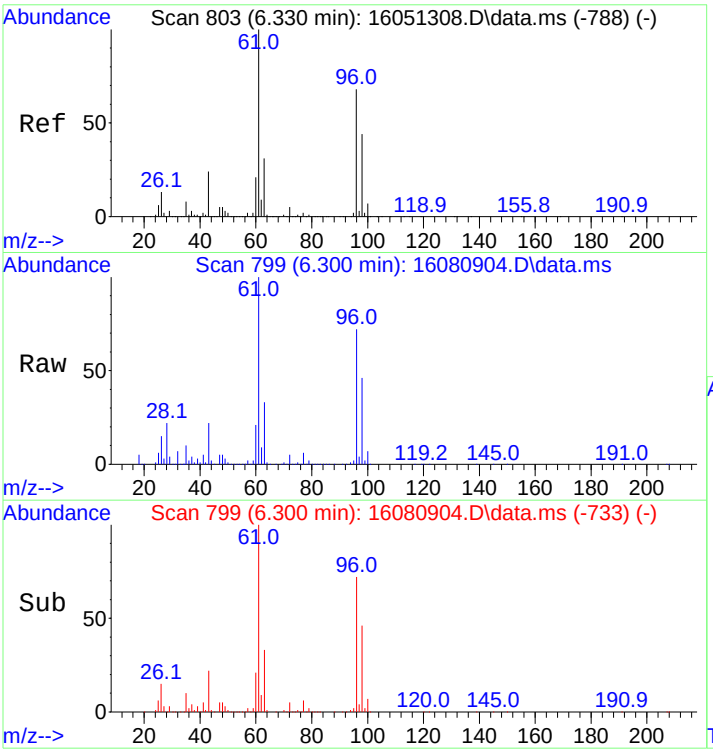


#14
1,1-Dichloroethane
Concen: 230.96 ng
RT: 5.254 min Scan# 660
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 63 Resp: 423762

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.6	37.0

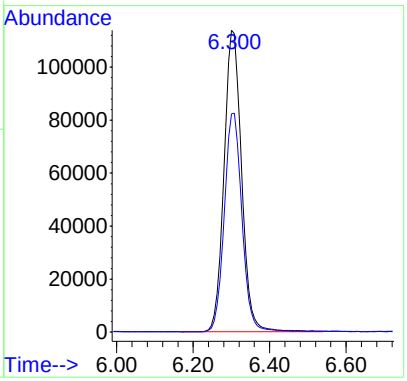


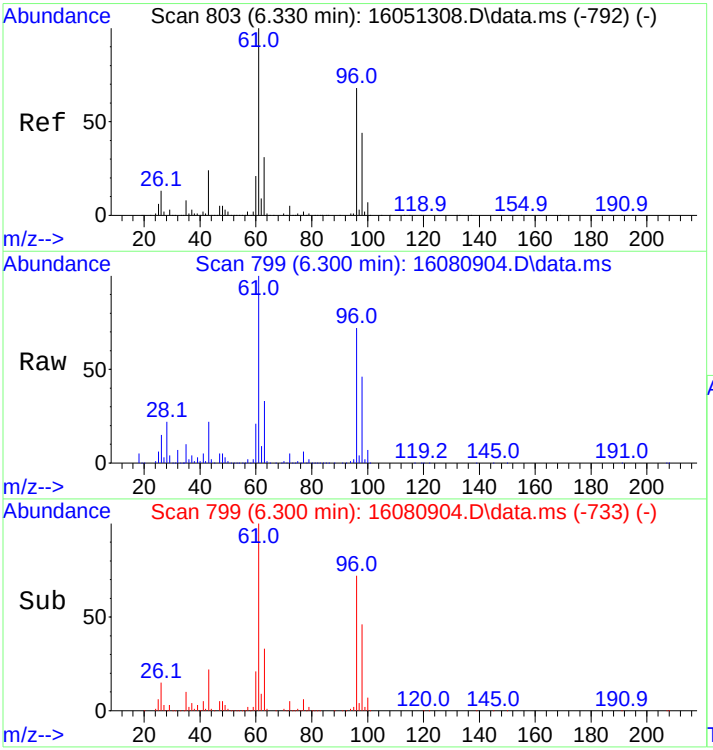


#16
cis,1,2-Dichloroethene
Concen: 212.04 ng
RT: 6.300 min Scan# 799
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 61 Resp: 363544

Ion	Ratio	Lower	Upper
61	100		
96	72.8	54.6	81.8

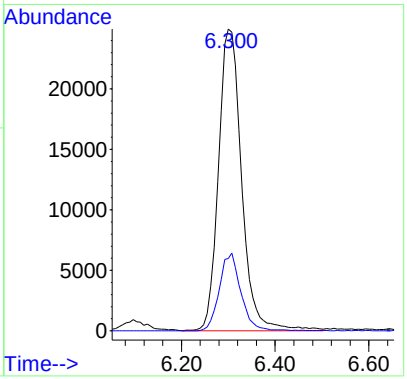


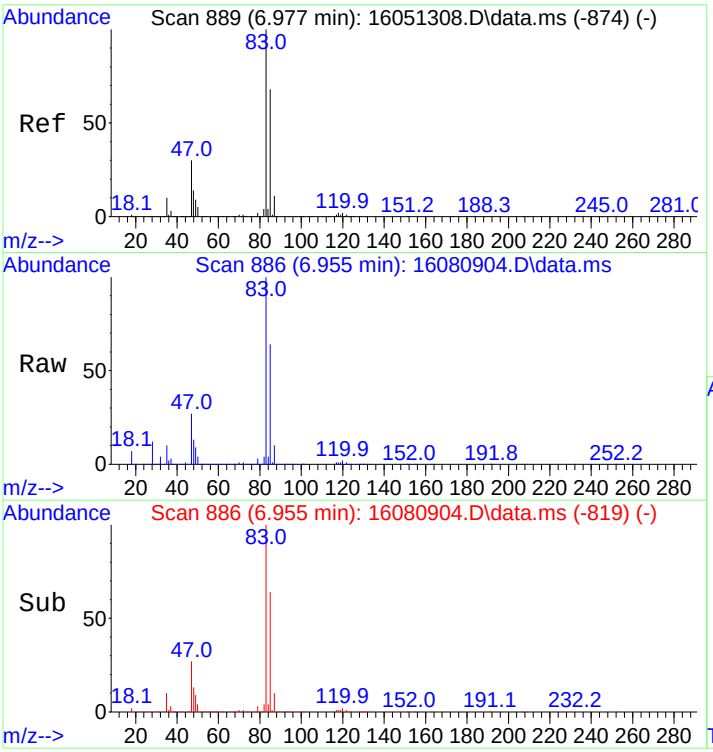


#17
2-Butanone
Concen: 144.46 ng
RT: 6.300 min Scan# 799
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 85670

Ion	Ratio	Lower	Upper
43	100		
72	24.0	17.4	26.2

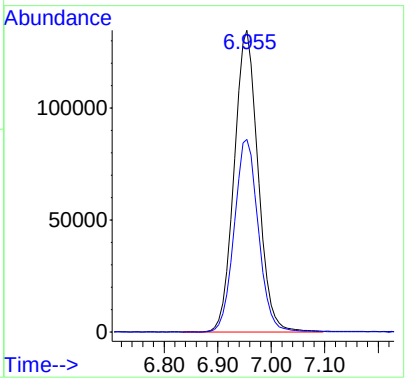


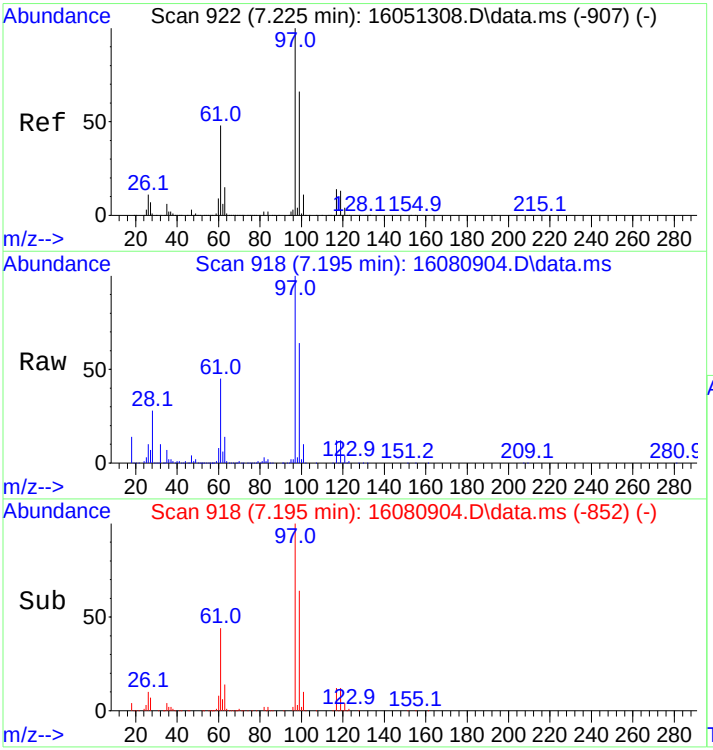


#18
Chloroform
Concen: 242.71 ng
RT: 6.955 min Scan# 886
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 417761

Ion	Ratio	Lower	Upper
83	100		
85	64.7	53.9	80.9

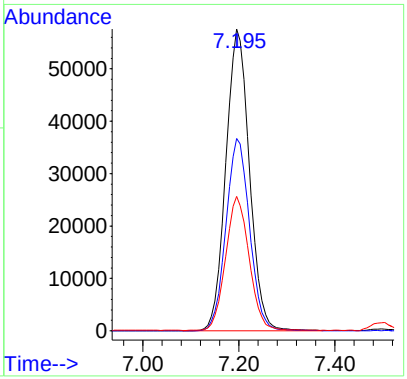


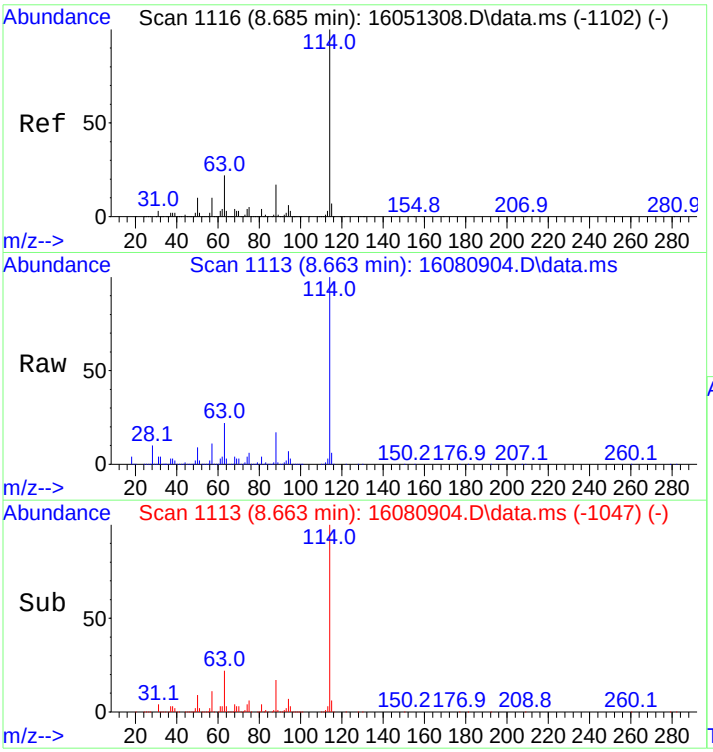


#19
1,1,1-Trichloroethane
Concen: 199.84 ng
RT: 7.195 min Scan# 918
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 97 Resp: 196696

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.3	76.9
61	44.2	37.6	56.4

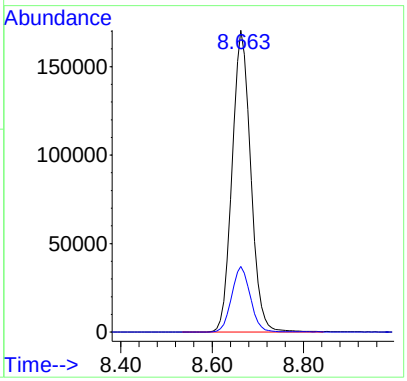


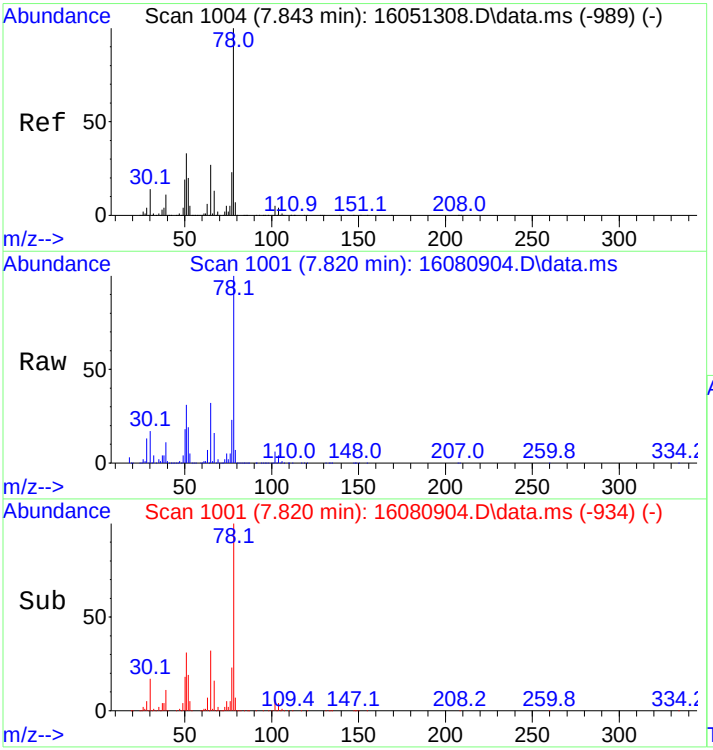


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.663 min Scan# 1113
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:114 Resp: 482170

Ion	Ratio	Lower	Upper
114	100		
63	21.7	17.8	26.8

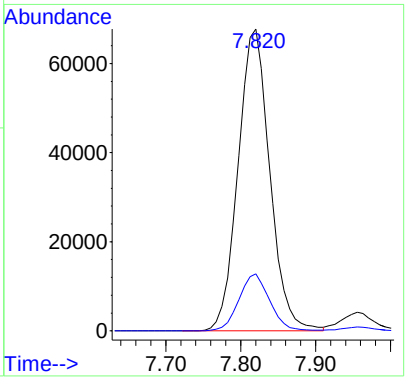


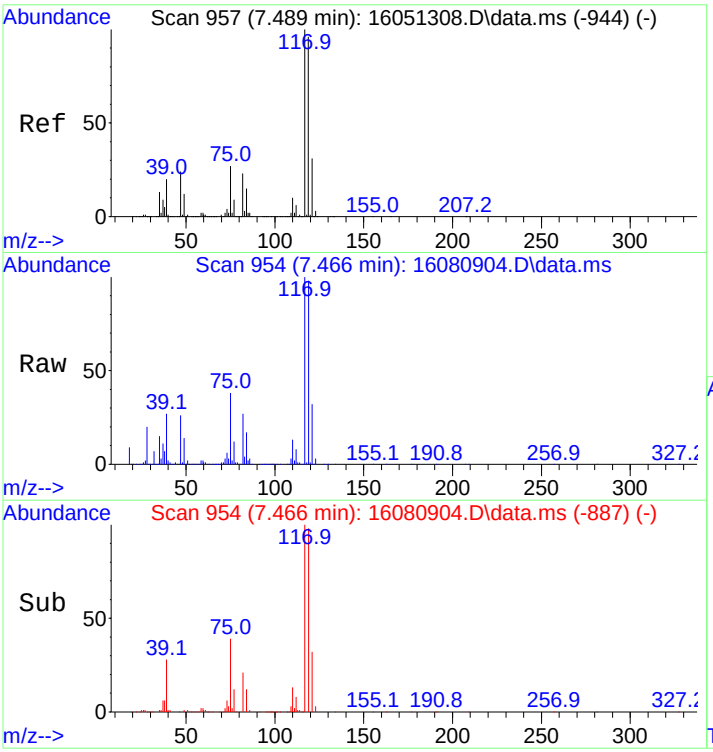


#21
d4-1,2-Dichloroethane(SURR)
Concen: 305.35 ng
RT: 7.820 min Scan# 1001
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 65 Resp: 199426

Ion	Ratio	Lower	Upper
65	100		
102	18.3	16.5	24.7

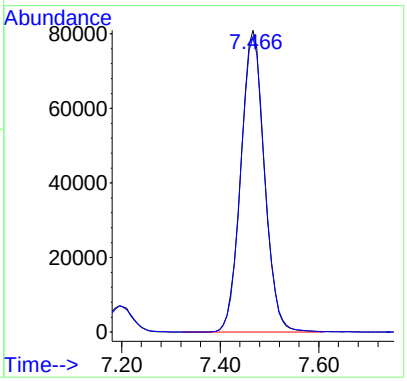


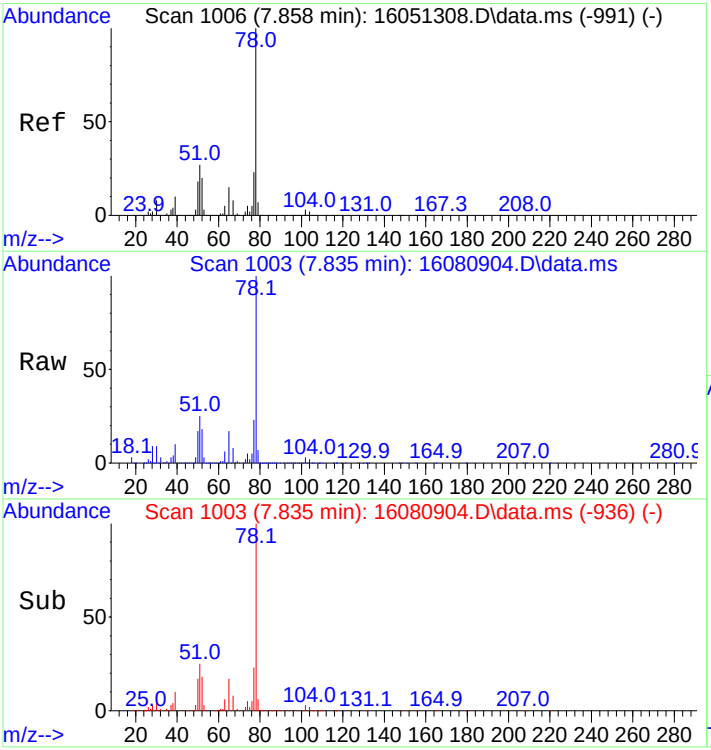


#22
Carbon Tetrachloride
Concen: 291.60 ng
RT: 7.466 min Scan# 954
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:117 Resp: 268609

Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.0	115.4

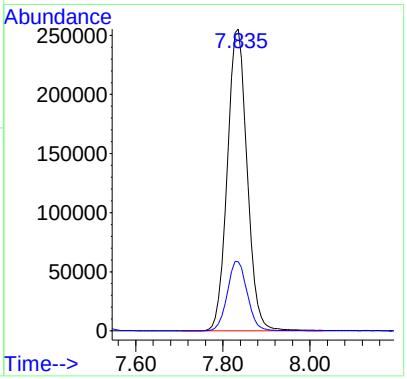


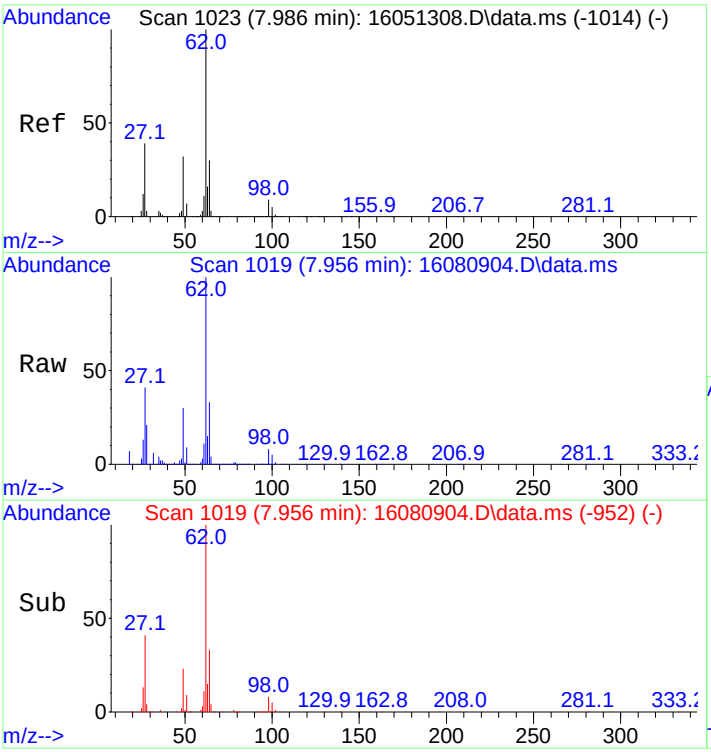


#23
Benzene
Concen: 230.84 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 78 Resp: 805768

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

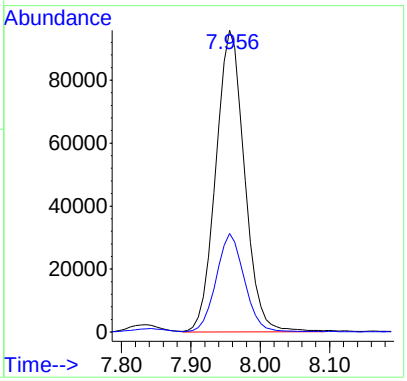


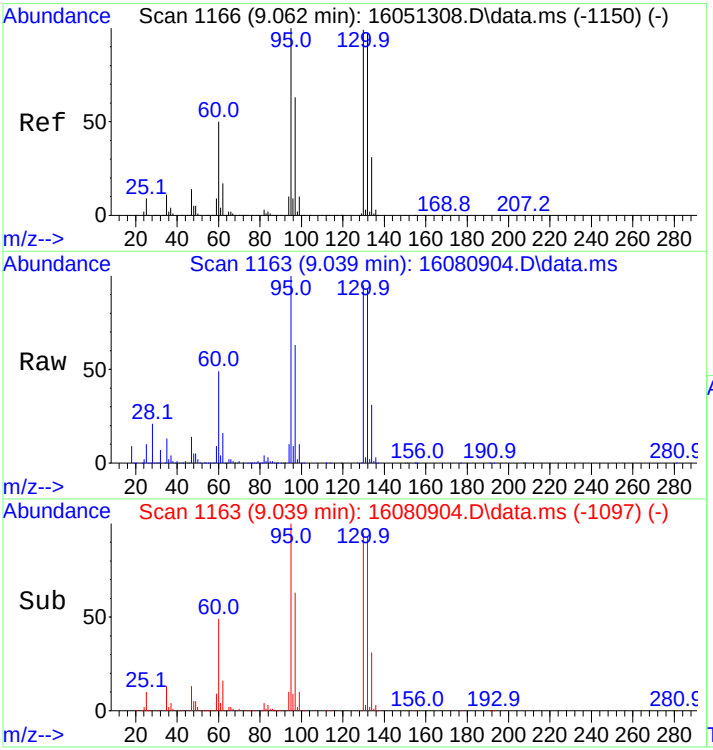


#24
1,2-Dichloroethane
Concen: 274.87 ng
RT: 7.956 min Scan# 1019
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 62 Resp: 274666

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.8	37.2

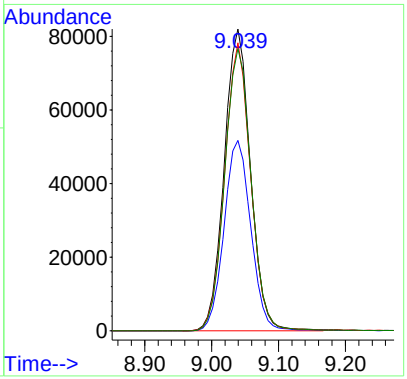


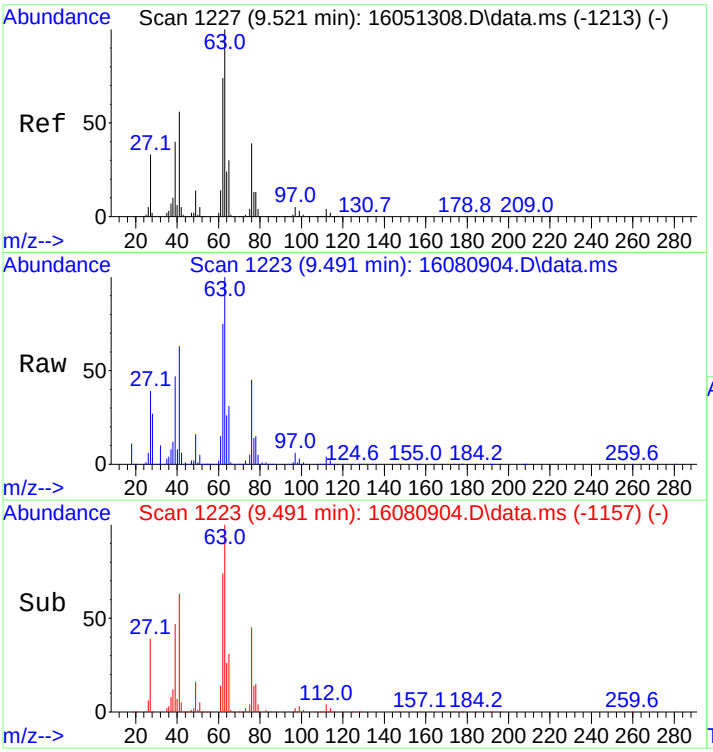


#25
Trichloroethene
Concen: 286.70 ng
RT: 9.039 min Scan# 1163
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 95 Resp: 224361

Ion	Ratio	Lower	Upper
95	100		
97	64.3	51.8	77.8
130	94.3	81.9	122.9
132	94.4	81.2	121.8

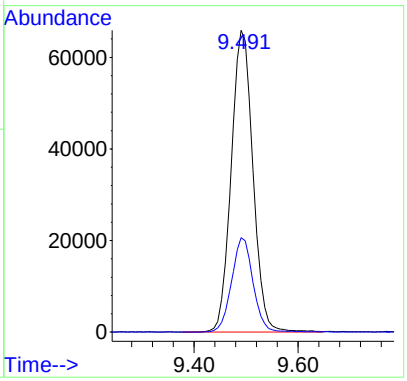


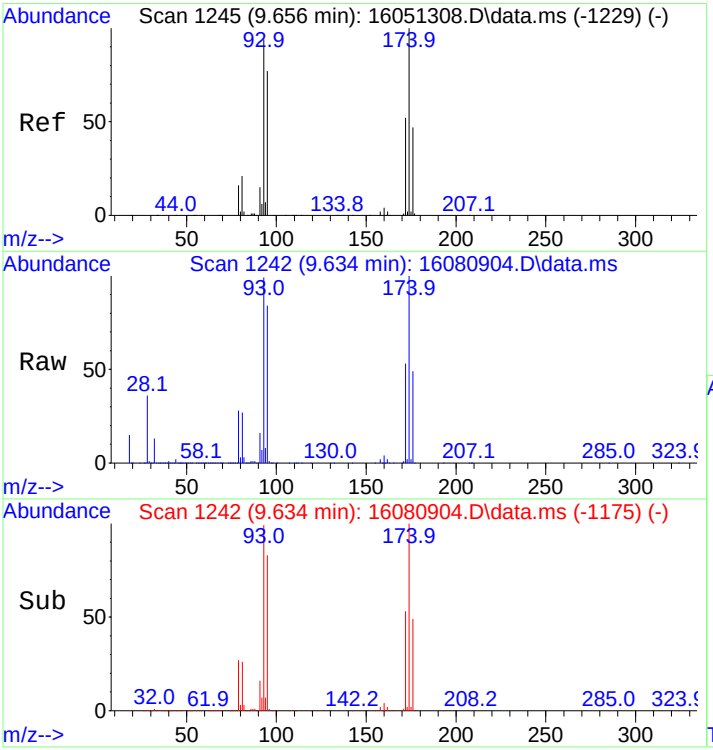


#26
1,2-Dichloropropane
Concen: 238.89 ng
RT: 9.491 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 63 Resp: 191137

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.2	36.2

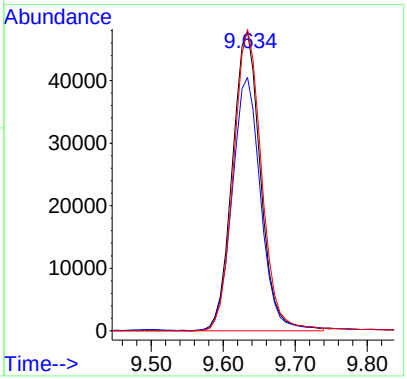


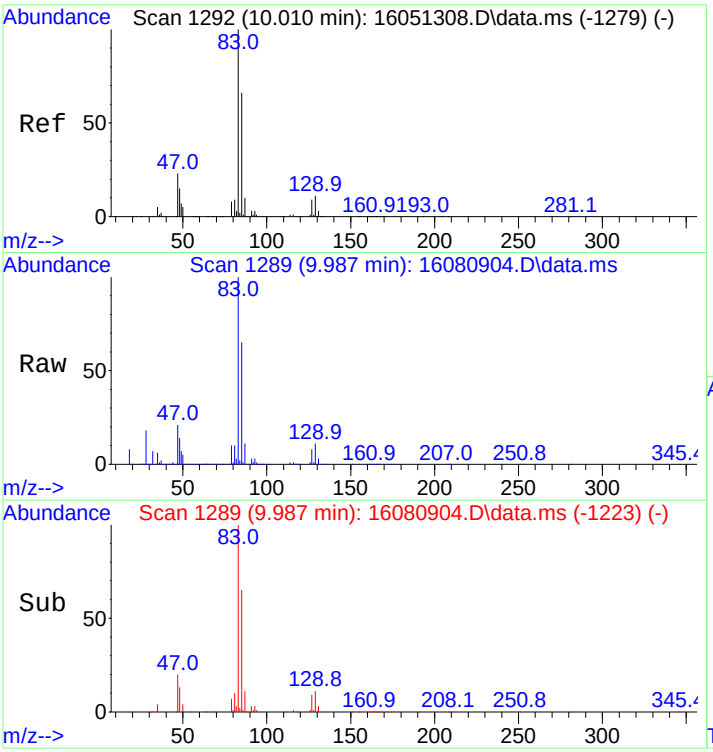


#27
Dibromomethane
Concen: 288.91 ng
RT: 9.634 min Scan# 1242
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 93 Resp: 129480

Ion	Ratio	Lower	Upper
93	100		
95	86.1	65.5	98.3
174	101.4	85.5	128.3

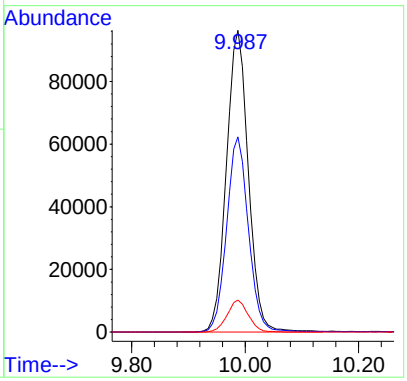


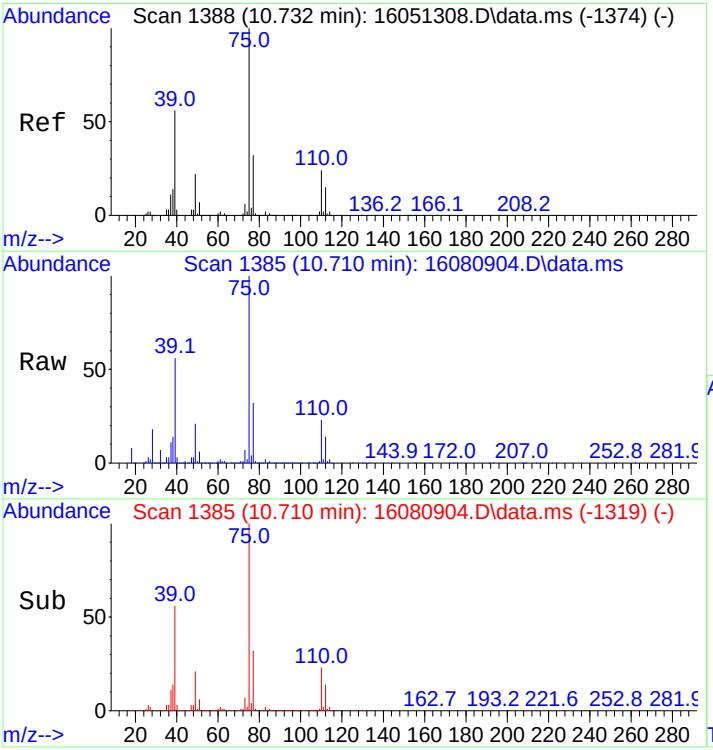


#28
Bromodichloromethane
Concen: 296.97 ng
RT: 9.987 min Scan# 1289
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 258731

Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.5	78.7
87	10.3	8.3	12.5

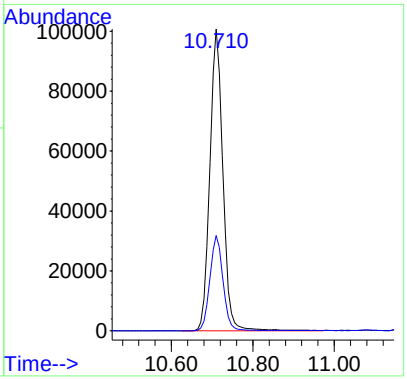


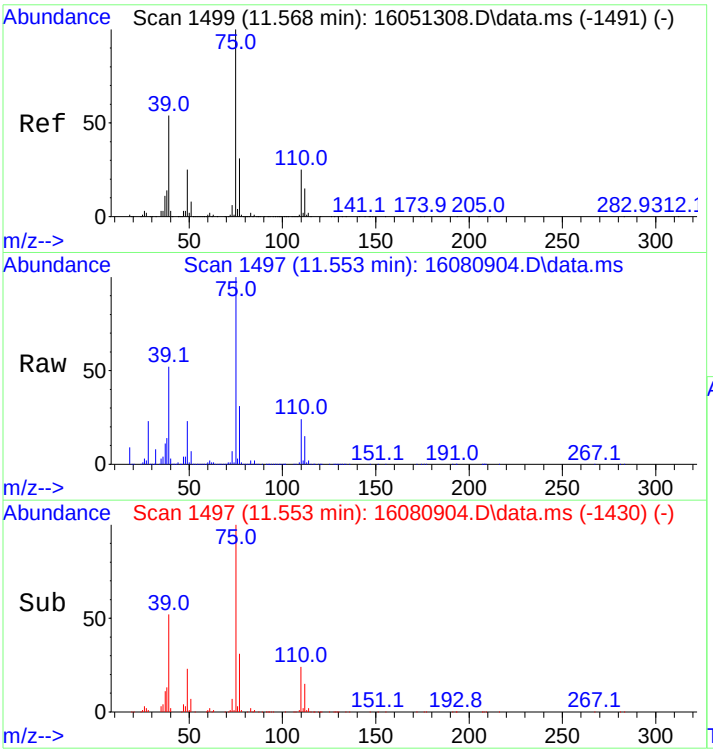


#29
cis,1,3-Dichloropropene
Concen: 251.59 ng
RT: 10.710 min Scan# 1385
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 224558

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4

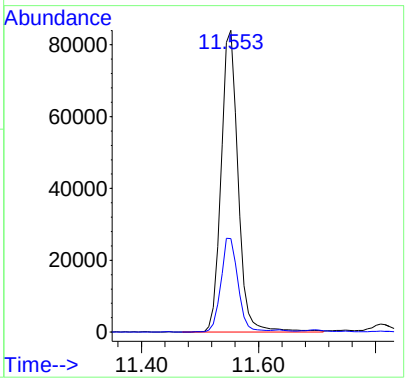


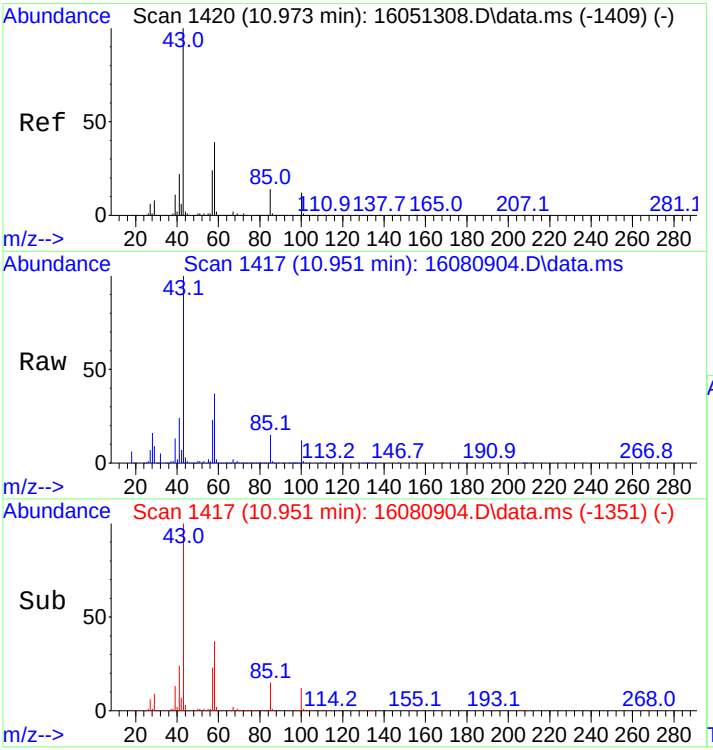


#30
trans,1,3-Dichloropropene
Concen: 279.17 ng
RT: 11.553 min Scan# 1497
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 169471

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

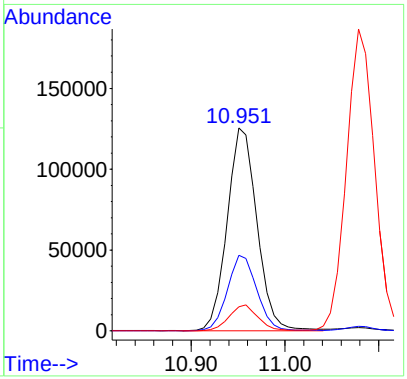


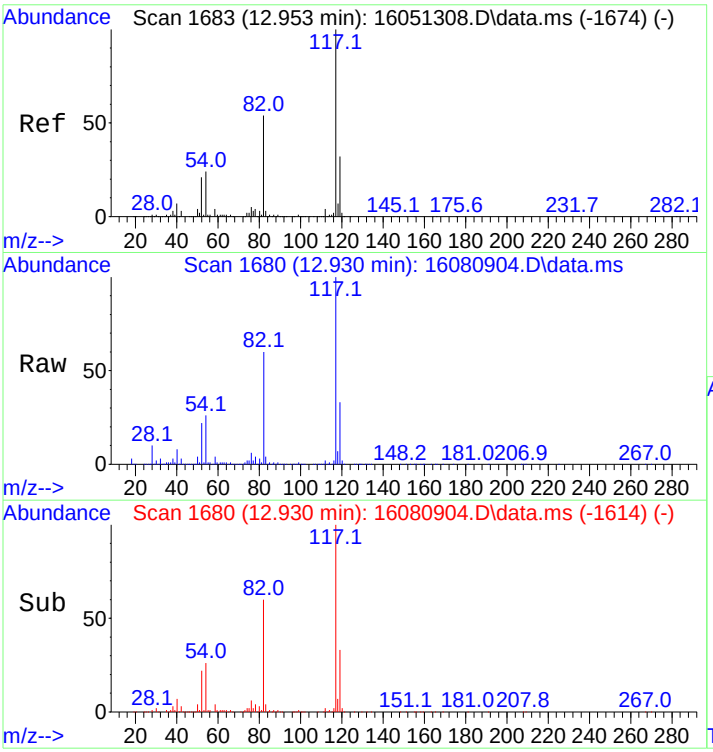


#31
4-Methyl-2-Pentanone
Concen: 235.91 ng
RT: 10.951 min Scan# 1417
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 277966

Ion	Ratio	Lower	Upper
43	100		
58	37.0	31.3	46.9
100	12.4	10.2	15.2

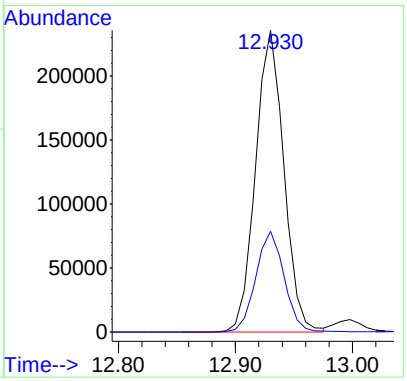


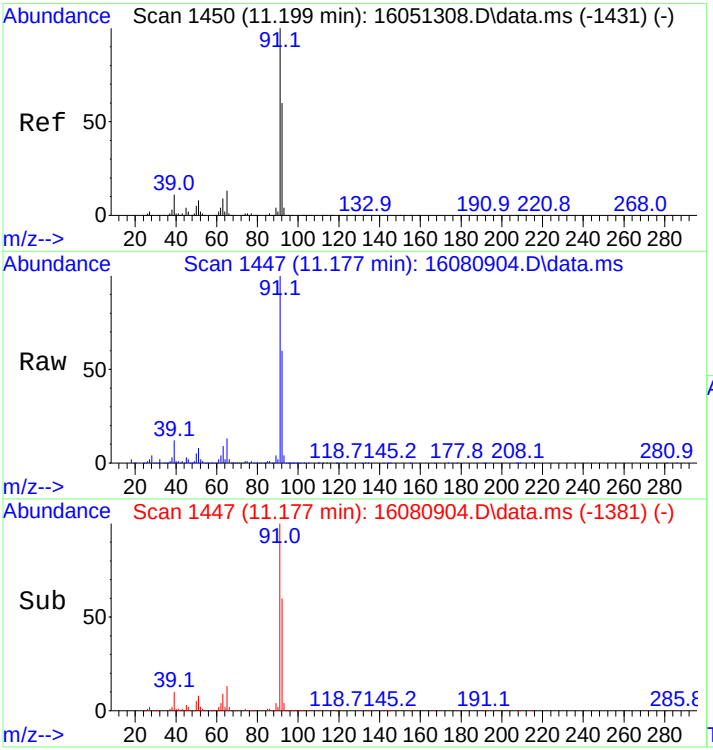


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:117 Resp: 396607

Ion	Ratio	Lower	Upper
117	100		
119	33.6	25.8	38.8

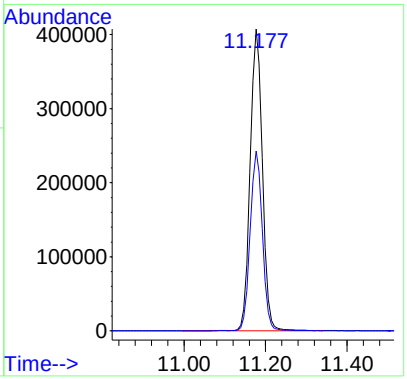


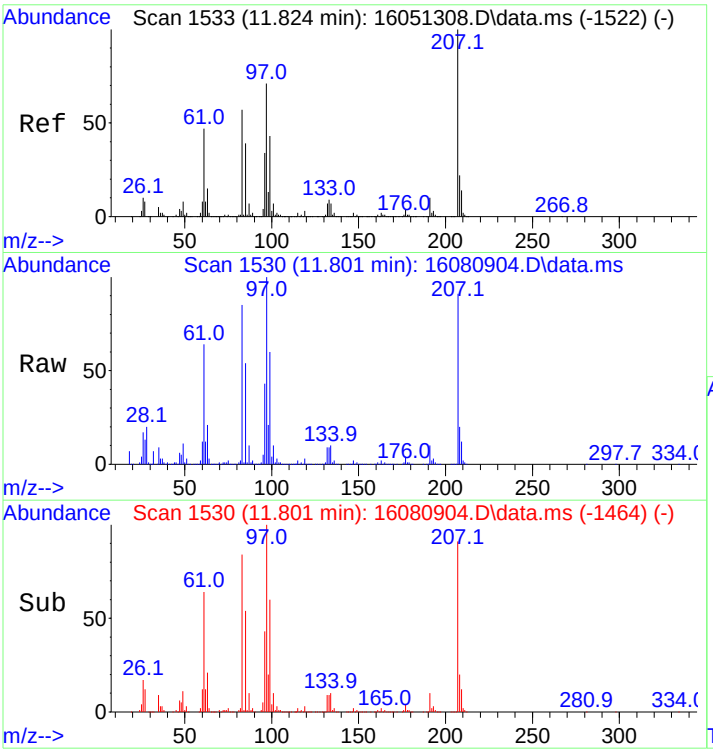


#33
Toluene
Concen: 215.84 ng
RT: 11.177 min Scan# 1447
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 849087

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.6	73.0

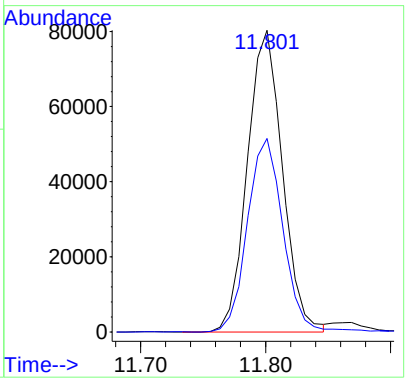


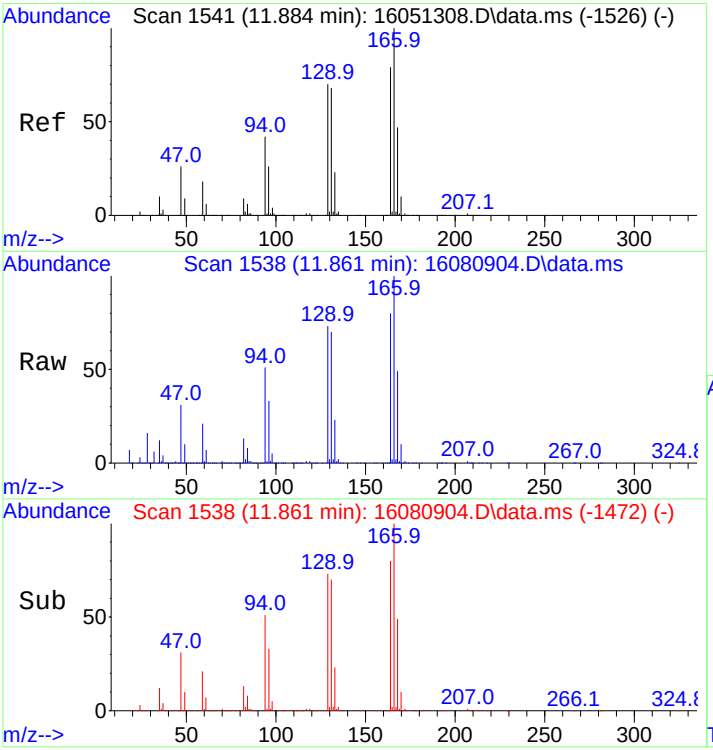


#34
1,1,2-Trichloroethane
Concen: 230.55 ng
RT: 11.801 min Scan# 1530
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 156737

Ion	Ratio	Lower	Upper
83	100		
85	65.7	54.7	82.1

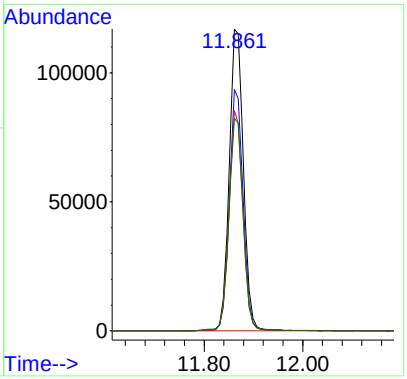


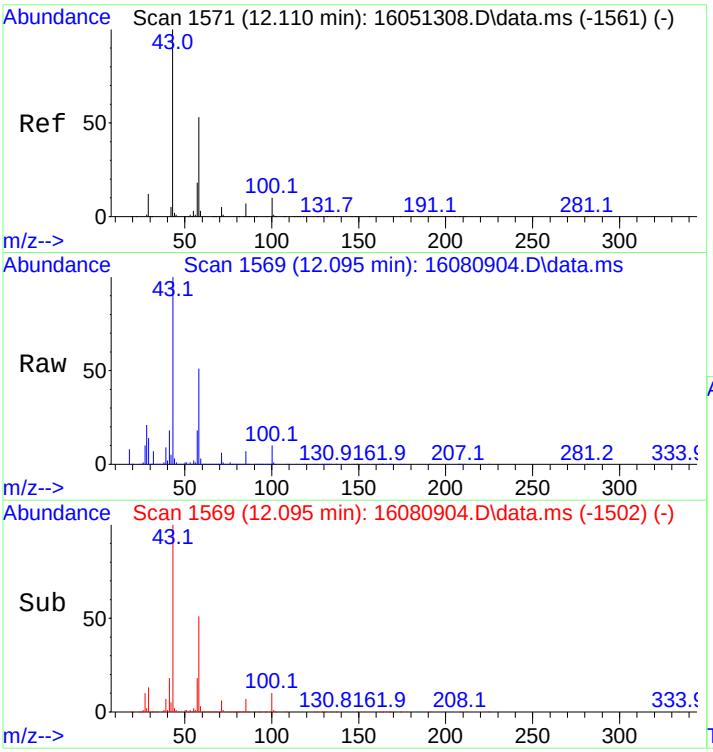


#35
Tetrachloroethene
Concen: 225.75 ng
RT: 11.861 min Scan# 1538
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:166 Resp: 232581

Ion	Ratio	Lower	Upper
166	100		
164	78.4	63.2	94.8
129	71.3	55.5	83.3
131	70.5	55.2	82.8

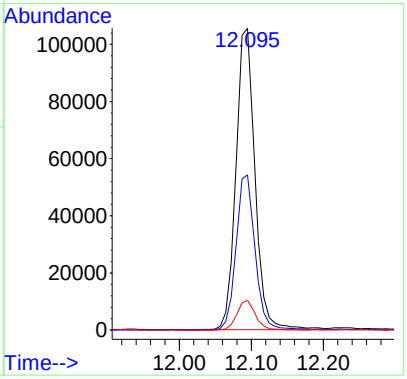


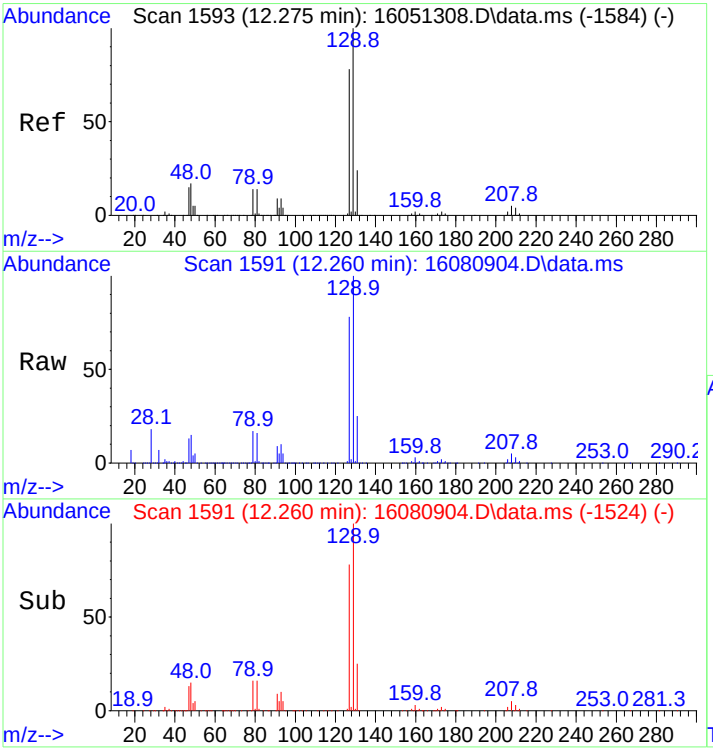


#36
2-Hexanone
Concen: 191.63 ng
RT: 12.095 min Scan# 1569
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 43 Resp: 193397

Ion	Ratio	Lower	Upper
43	100		
58	51.5	43.6	65.4
100	9.5	7.8	11.8

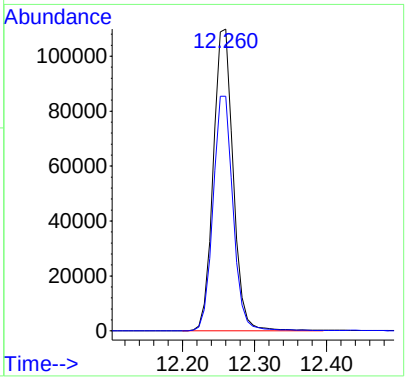


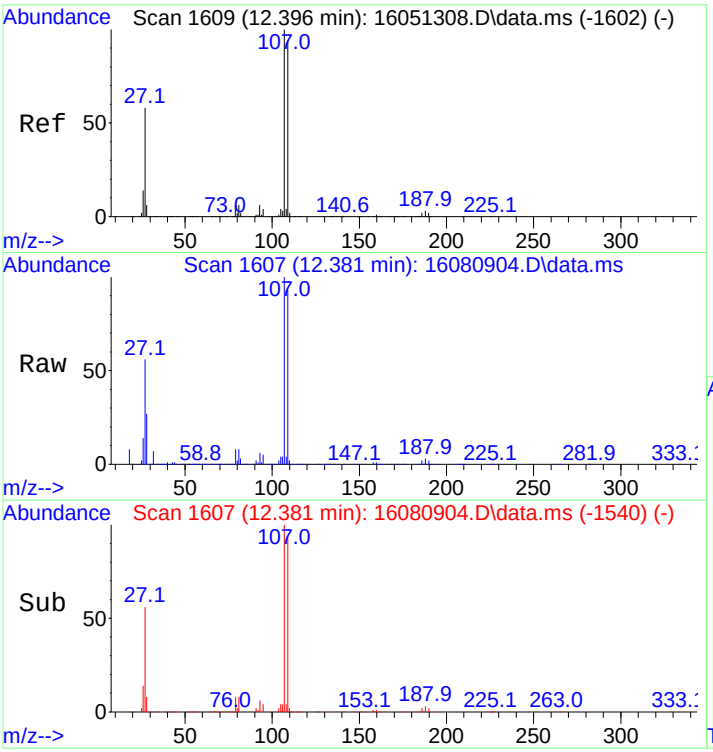


#37
Chlorodibromomethane
Concen: 229.64 ng
RT: 12.260 min Scan# 1591
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:129 Resp: 211756

Ion	Ratio	Lower	Upper
129	100		
127	78.0	62.3	93.5

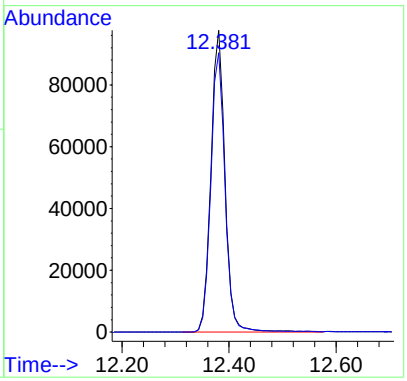


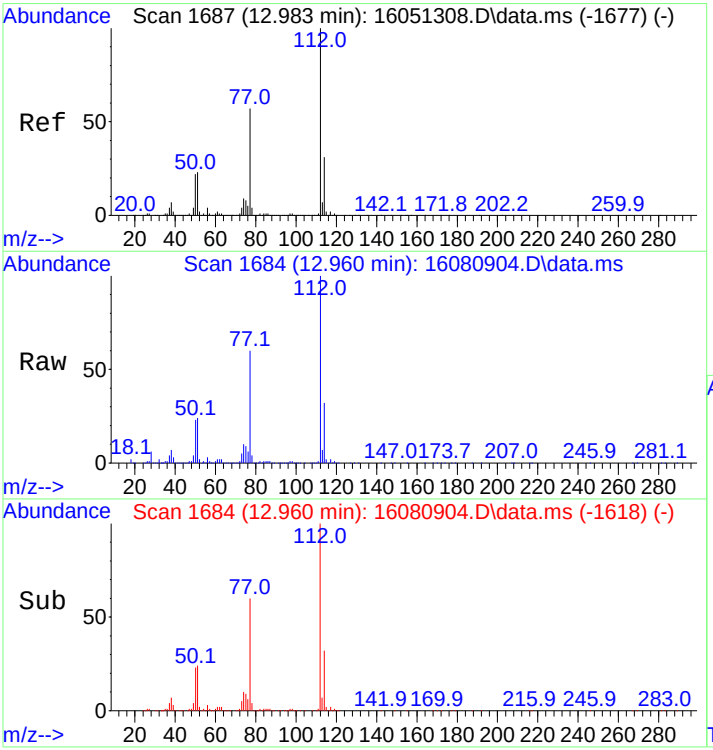


#38
Ethylene Dibromide
Concen: 211.54 ng
RT: 12.381 min Scan# 1607
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:107 Resp: 178056

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.3	111.5

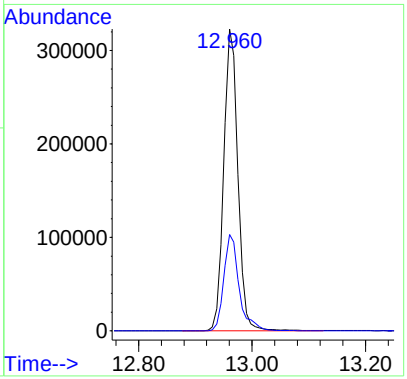


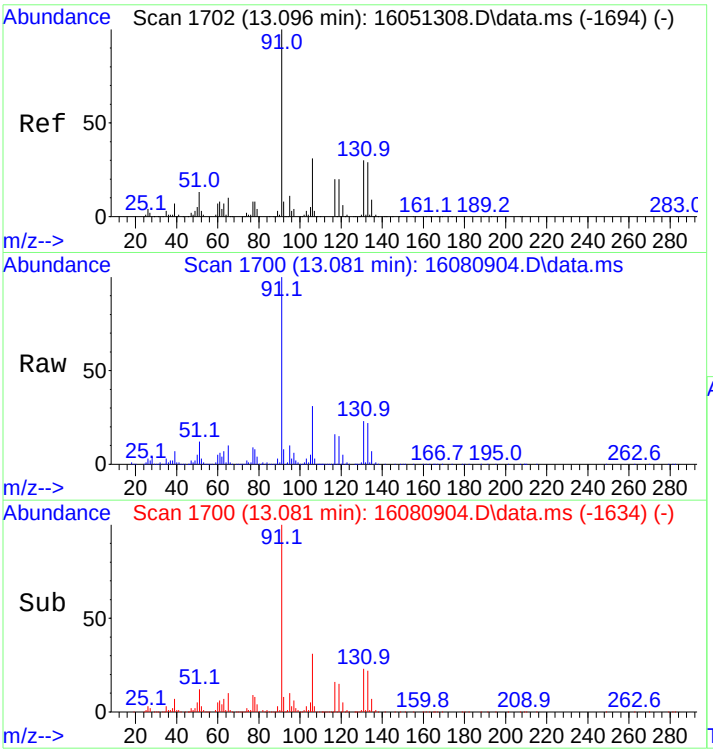


#39
Chlorobenzene
Concen: 231.30 ng
RT: 12.960 min Scan# 1684
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:112 Resp: 559107

Ion	Ratio	Lower	Upper
112	100		
114	34.6	27.5	41.3

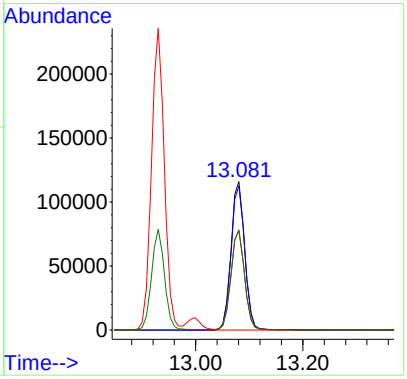


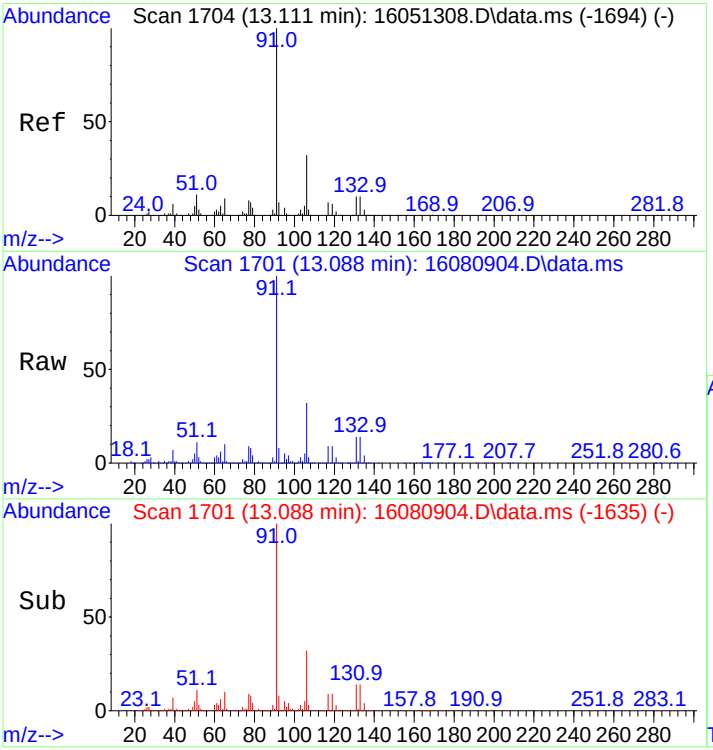


#40
1,1,1,2-Tetrachloroethane
Concen: 238.58 ng
RT: 13.081 min Scan# 1700
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:131 Resp: 204678

Ion	Ratio	Lower	Upper
131	100		
133	97.2	77.8	116.6
117	67.3	57.1	85.7
119	67.1	54.3	81.5

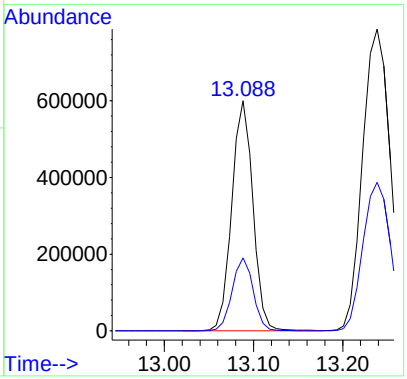


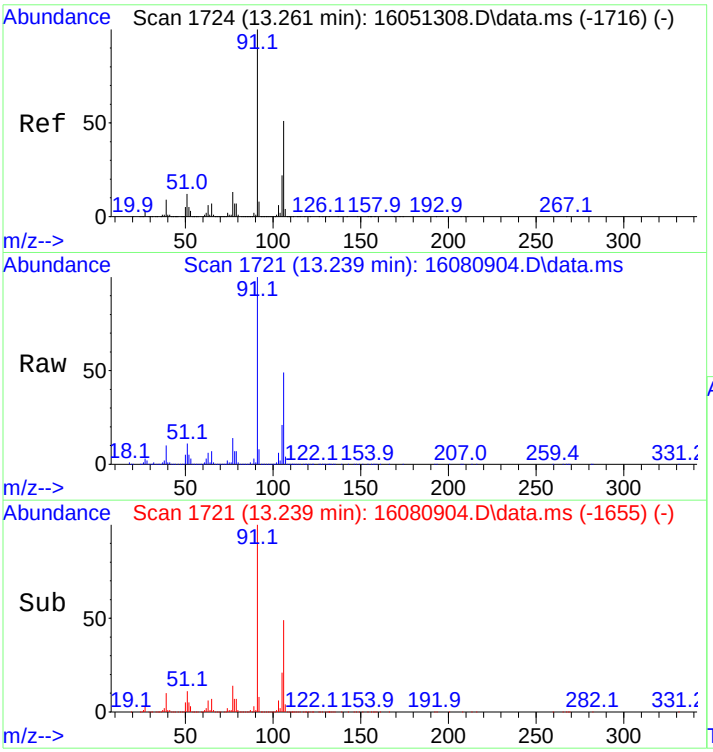


#41
Ethylbenzene
Concen: 223.08 ng
RT: 13.088 min Scan# 1701
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 996927

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.5	38.3

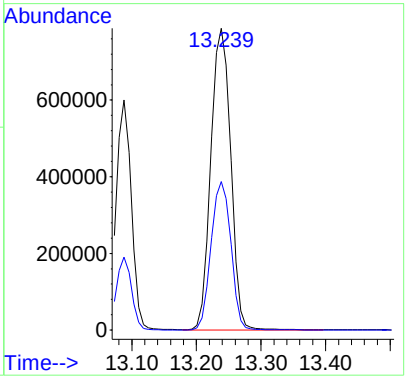


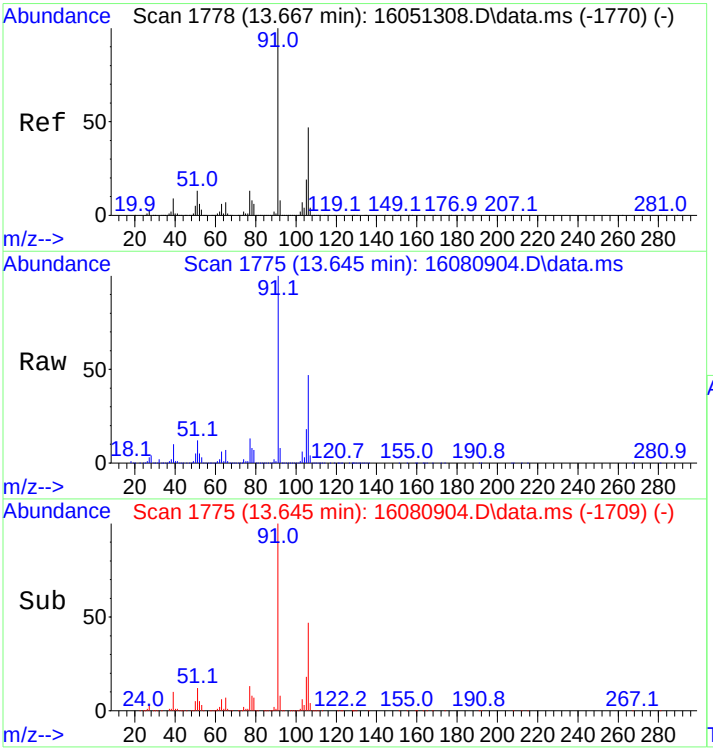


#42
M&P-Xylene
Concen: 443.80 ng
RT: 13.239 min Scan# 1721
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 1686660

Ion	Ratio	Lower	Upper
91	100		
106	49.1	40.4	60.6

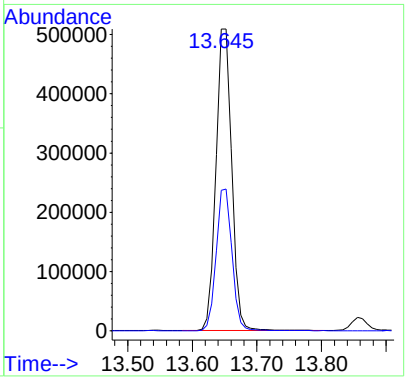


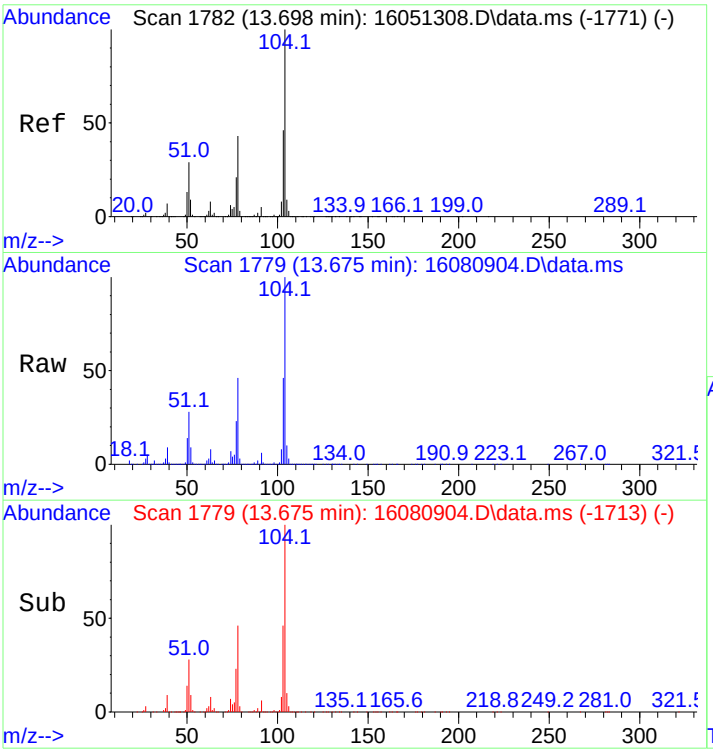


#43
O-Xylene
Concen: 218.18 ng
RT: 13.645 min Scan# 1775
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 859525

Ion	Ratio	Lower	Upper
91	100		
106	47.1	38.2	57.2

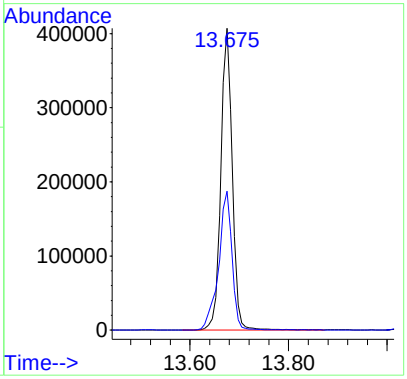


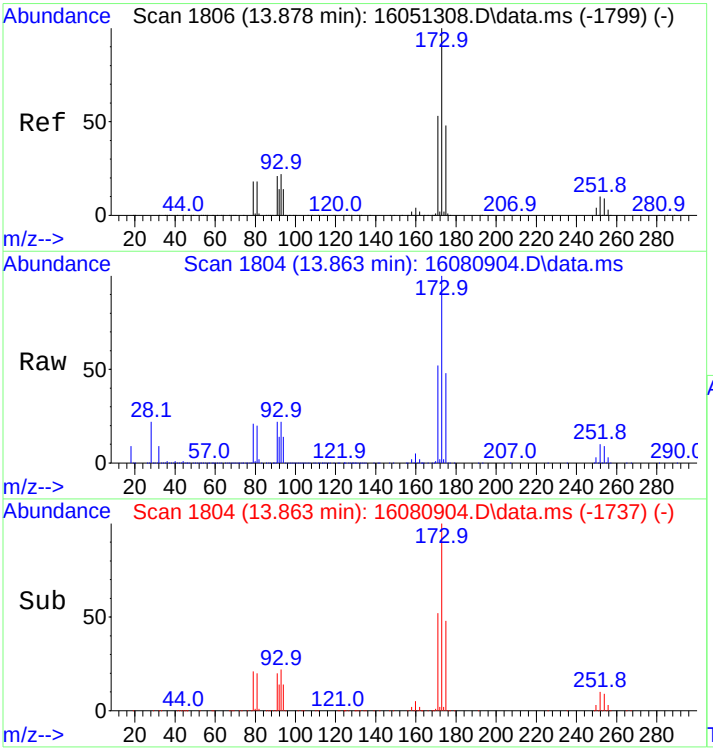


#44
Styrene
Concen: 195.74 ng
RT: 13.675 min Scan# 1779
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:104 Resp: 658253

Ion	Ratio	Lower	Upper
104	100		
78	53.9	39.8	59.6

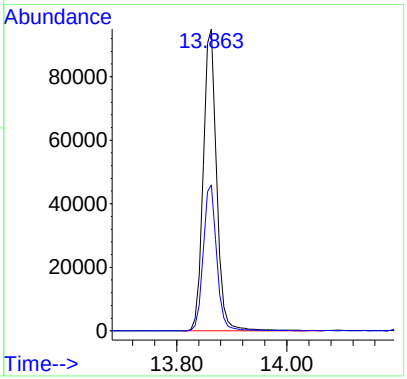


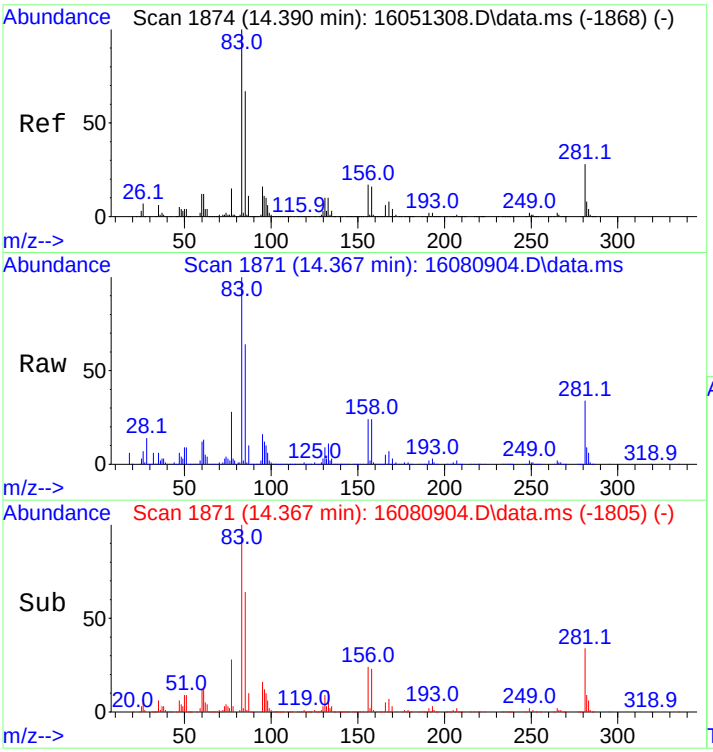


#45
Bromoform
Concen: 224.33 ng
RT: 13.863 min Scan# 1804
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:173 Resp: 163029

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.5	57.7

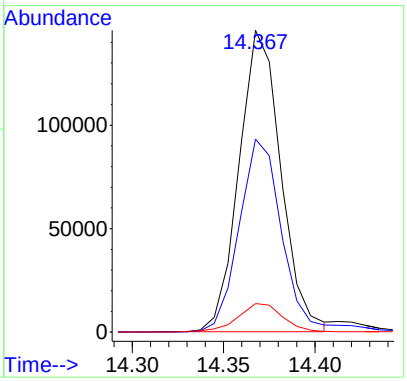


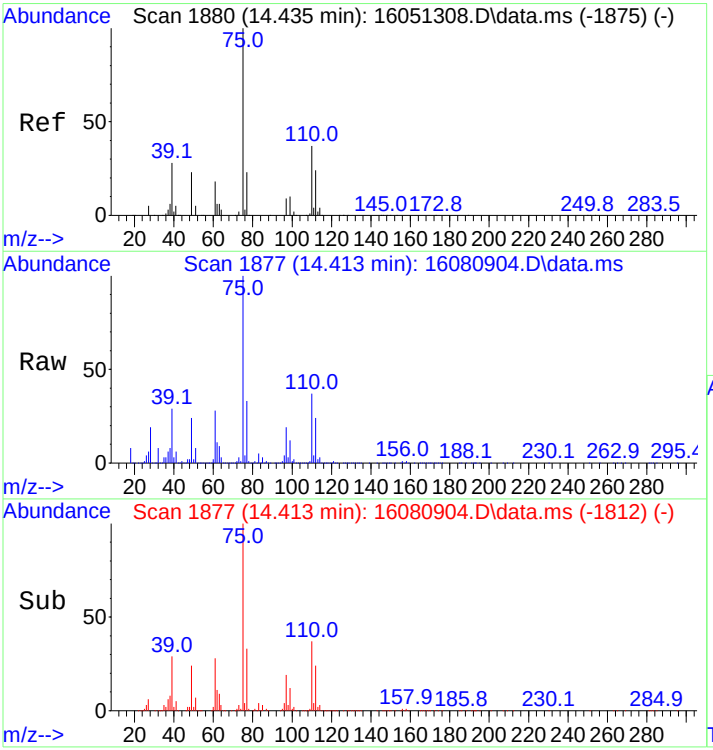


#46
1,1,2,2-Tetrachloroethane
Concen: 202.25 ng m
RT: 14.367 min Scan# 1871
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 83 Resp: 232288

Ion	Ratio	Lower	Upper
83	100		
85	64.1	53.1	79.7
131	10.4	8.9	13.3

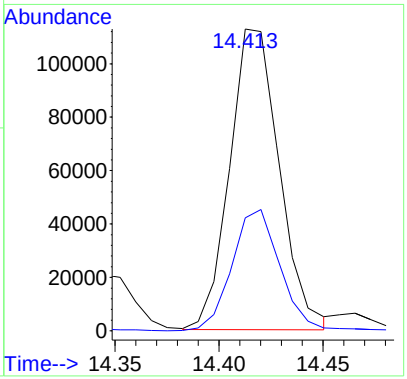


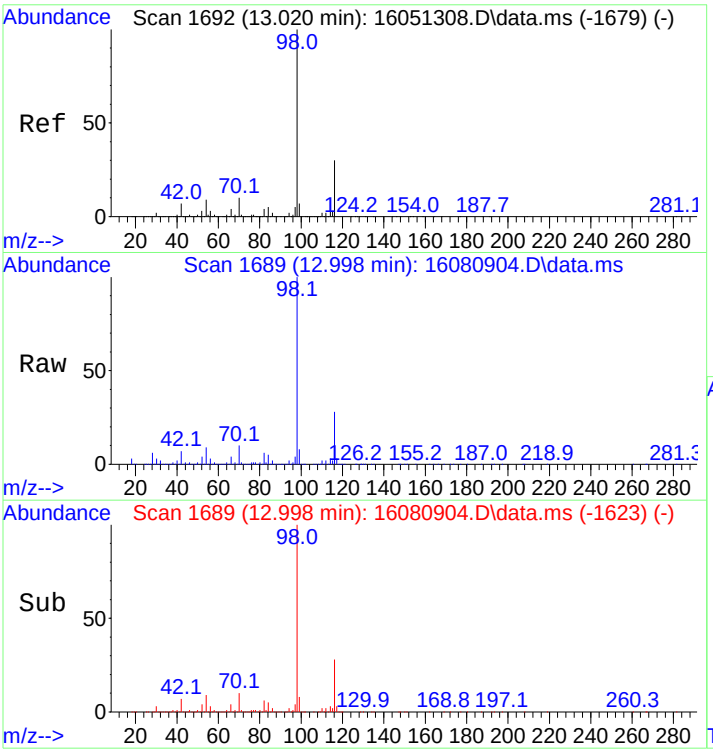


#47
1,2,3-Trichloropropane
Concen: 197.27 ng m
RT: 14.413 min Scan# 1877
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 187160

Ion	Ratio	Lower	Upper
75	100		
110	38.9	30.5	45.7

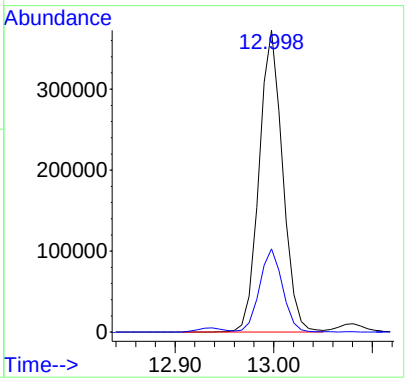


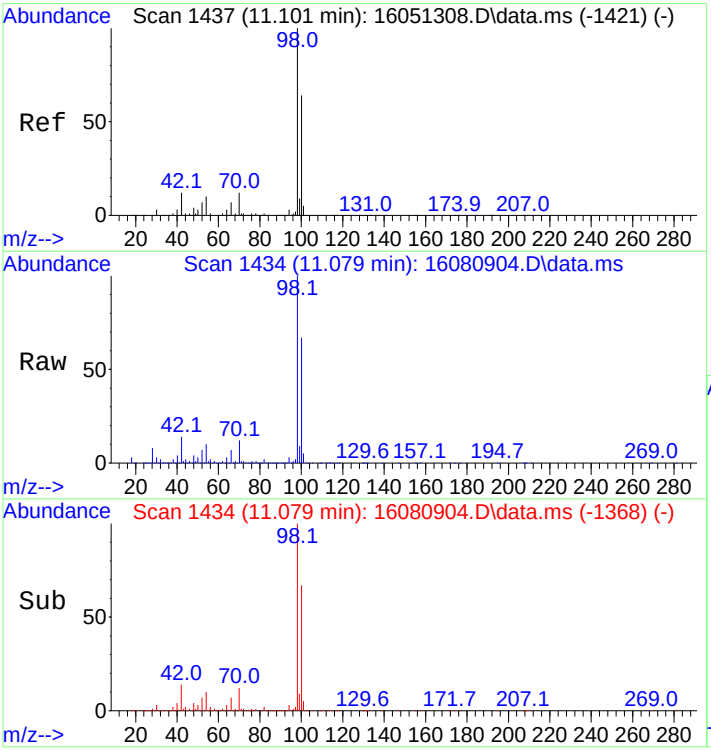


#48
d10-Ethylbenzene(SPK)
Concen: 226.64 ng
RT: 12.998 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 98 Resp: 617865

Ion	Ratio	Lower	Upper
98	100		
116	27.2	23.4	35.0

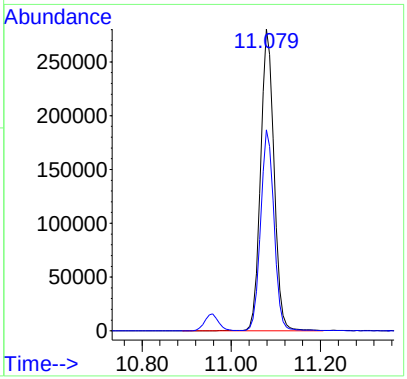


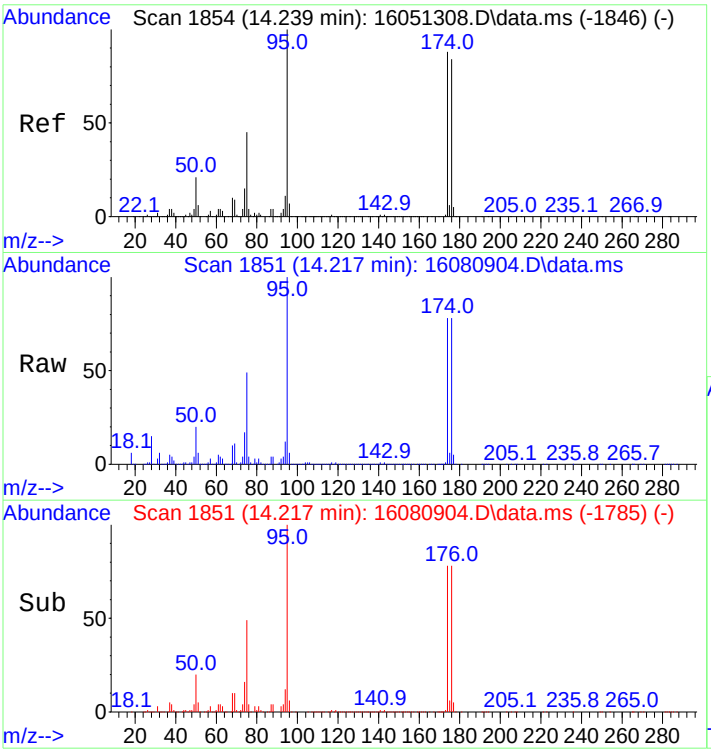


#49
d8-Toluene(SURR)
Concen: 252.22 ng
RT: 11.079 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 98 Resp: 592610

Ion	Ratio	Lower	Upper
98	100		
100	66.5	56.0	84.0

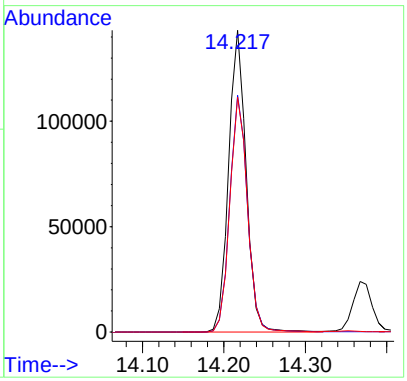


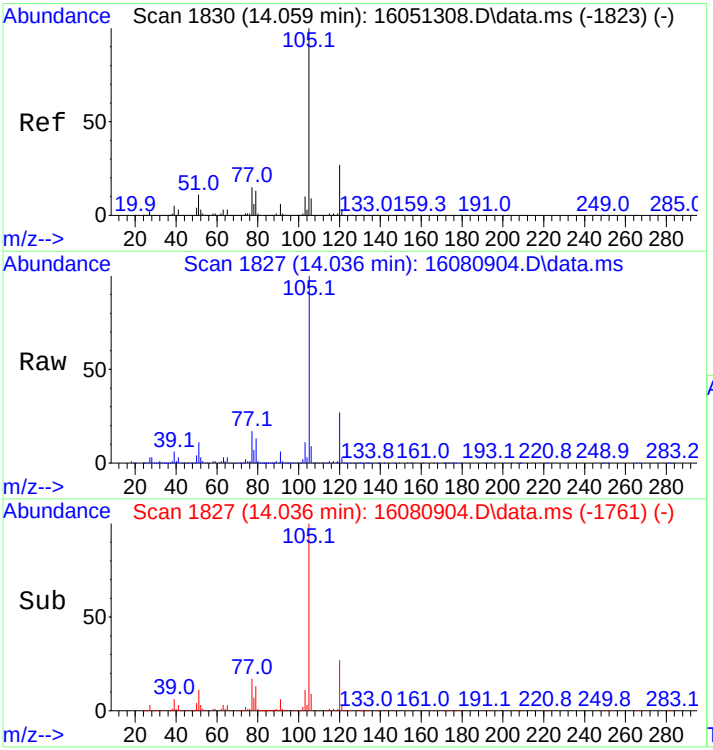


#50
4-Bromofluorobenzene(SURR)
Concen: 275.75 ng
RT: 14.217 min Scan# 1851
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 95 Resp: 215413

Ion	Ratio	Lower	Upper
95	100		
174	79.2	67.8	101.8
176	78.5	64.8	97.2

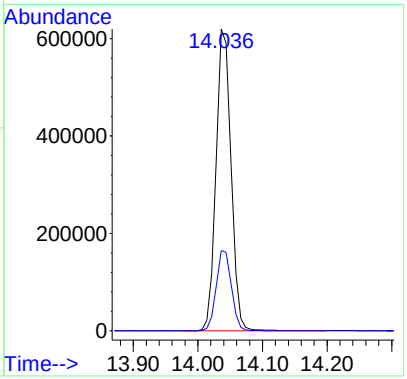


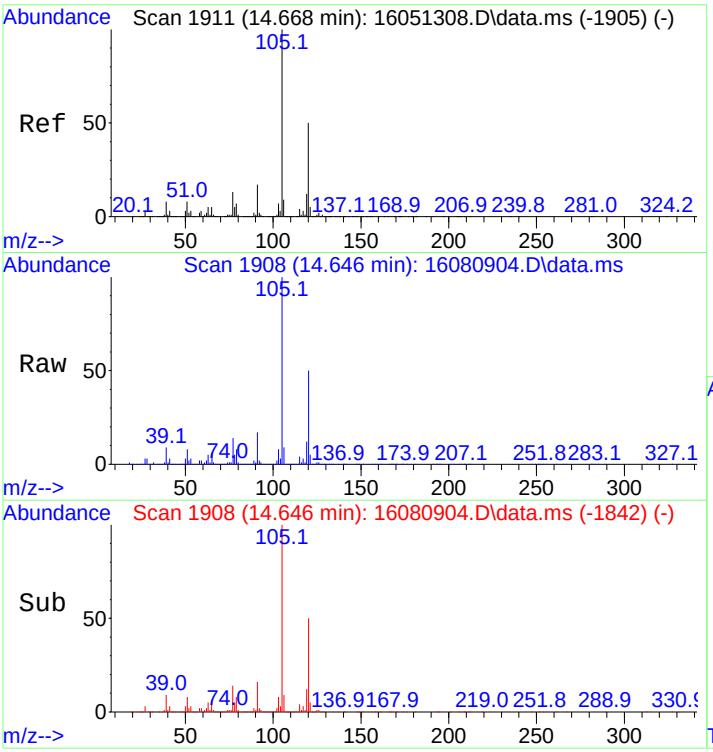


#51
Isopropylbenzene
Concen: 218.75 ng
RT: 14.036 min Scan# 1827
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 1001563

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.4	32.2

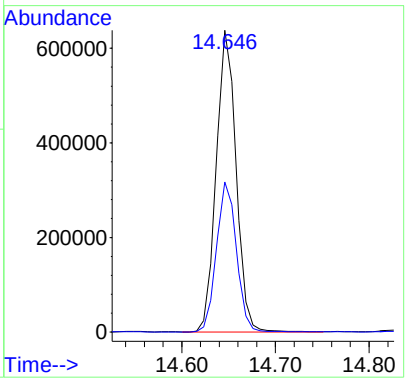


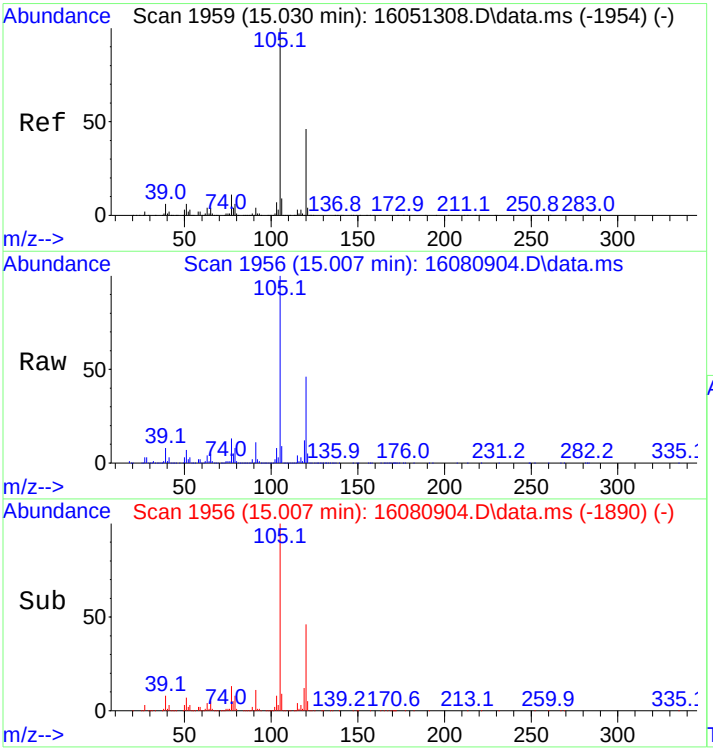


#52
1,3,5-Trimethylbenzene
Concen: 210.91 ng
RT: 14.646 min Scan# 1908
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 941133

Ion	Ratio	Lower	Upper
105	100		
120	50.1	39.9	59.9

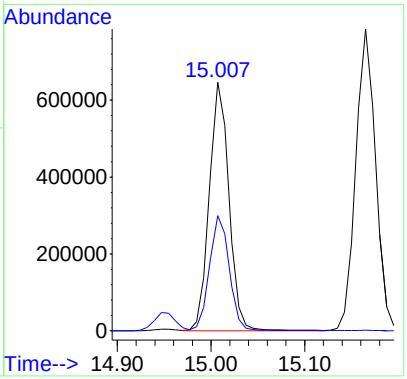


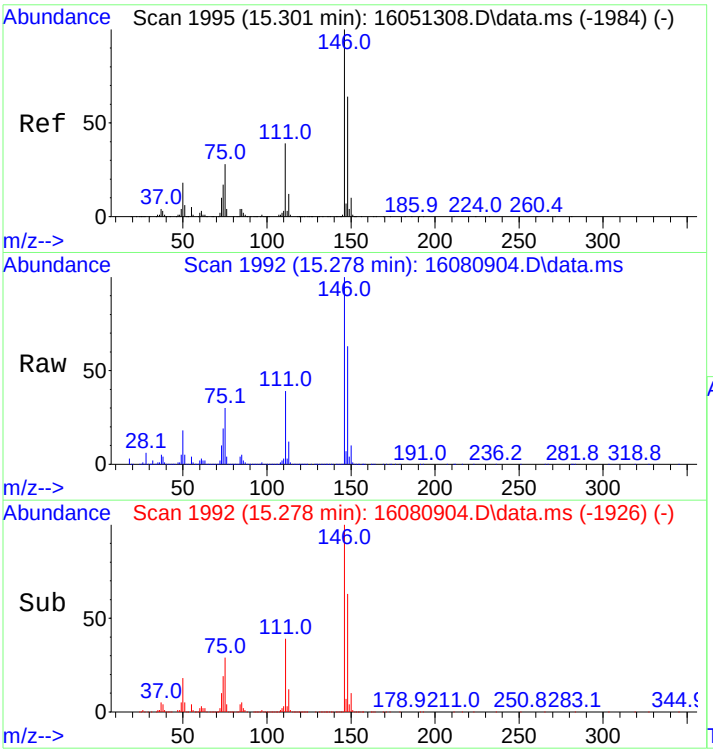


#53
1,2,4-Trimethylbenzene
Concen: 213.99 ng
RT: 15.007 min Scan# 1956
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 942808

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.5	56.3

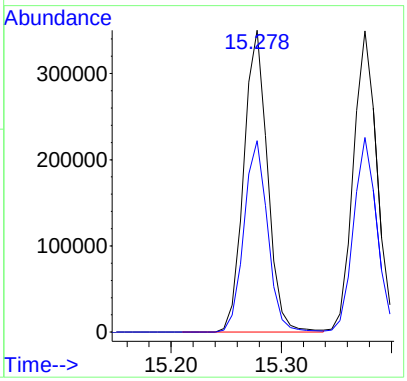


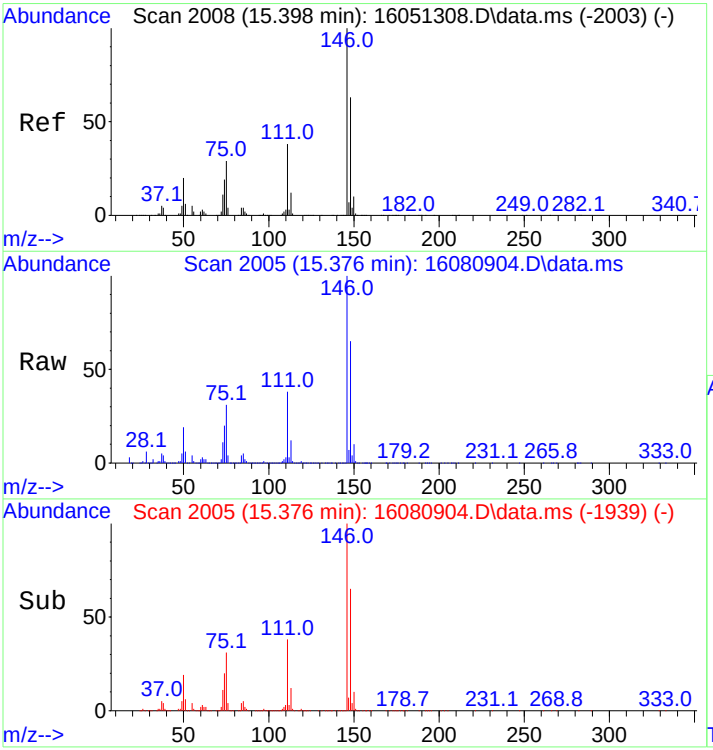


#54
1,3-Dichlorobenzene
Concen: 227.50 ng
RT: 15.278 min Scan# 1992
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:146 Resp: 523110

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	76.0

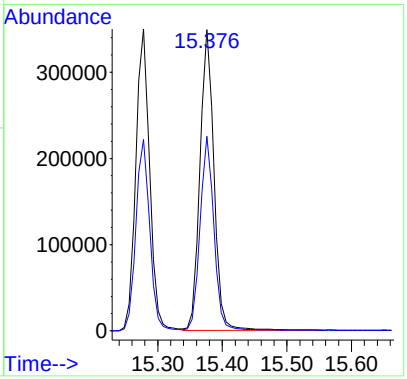


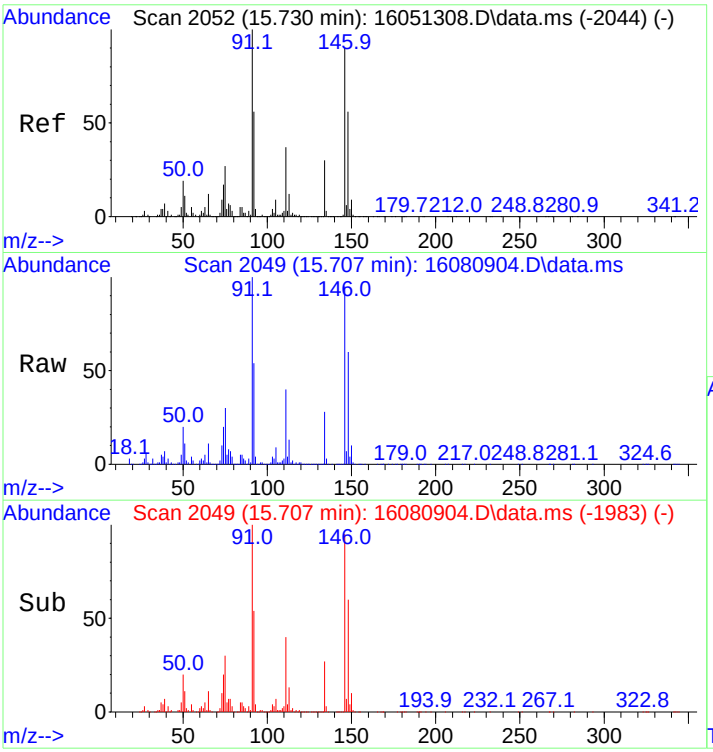


#55
1,4-Dichlorobenzene
Concen: 217.26 ng
RT: 15.376 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:146 Resp: 528041

Ion	Ratio	Lower	Upper
146	100		
148	64.1	49.9	74.9

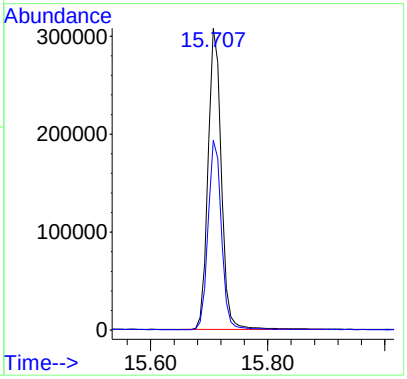


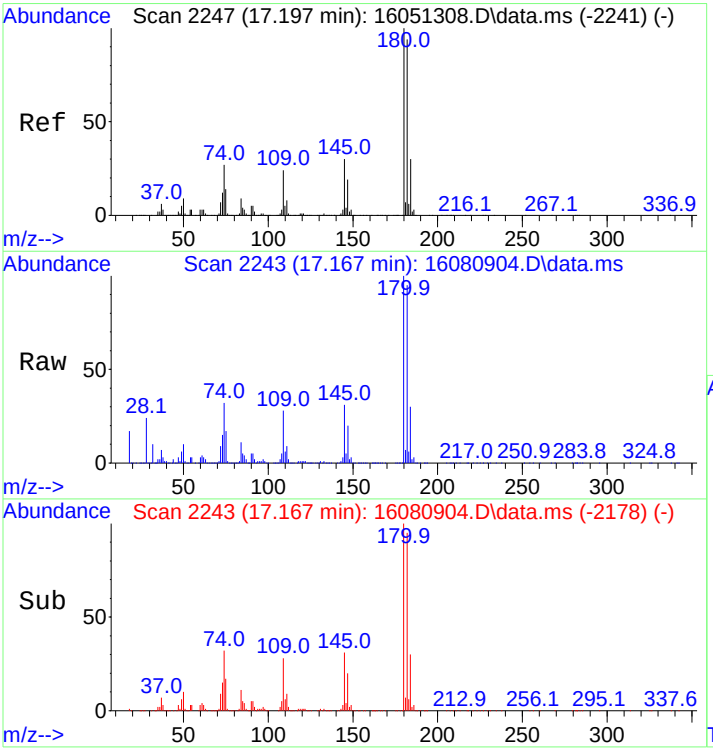


#56
1,2-Dichlorobenzene
Concen: 222.70 ng
RT: 15.707 min Scan# 2049
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:146 Resp: 484342

Ion	Ratio	Lower	Upper
146	100		
148	63.8	49.9	74.9

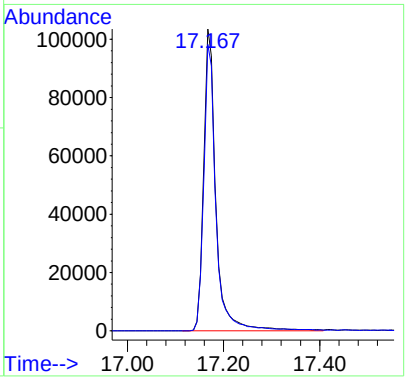


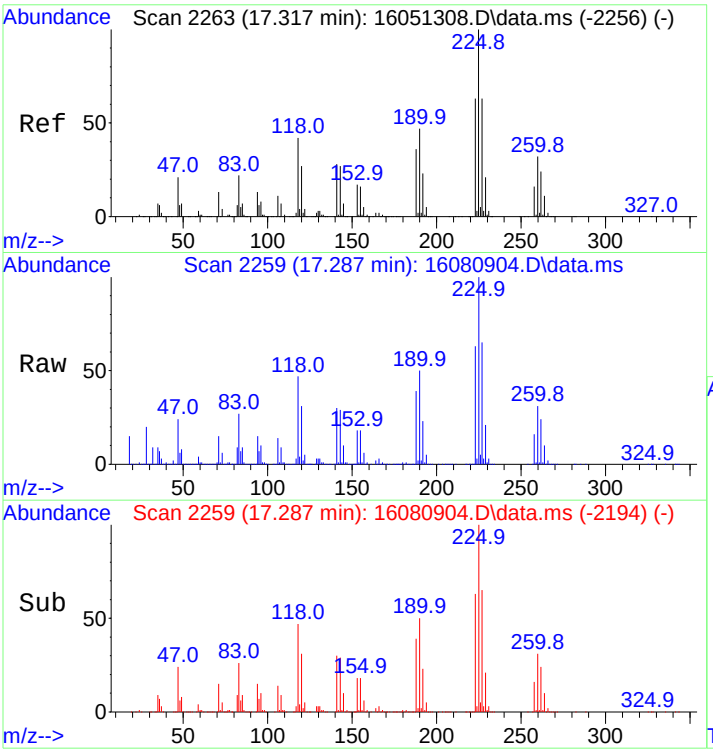


#57
1,2,4-Trichlorobenzene
Concen: 100.05 ng
RT: 17.167 min Scan# 2243
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:180 Resp: 184556

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.0	112.4

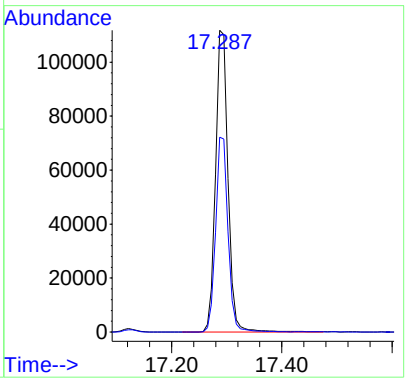


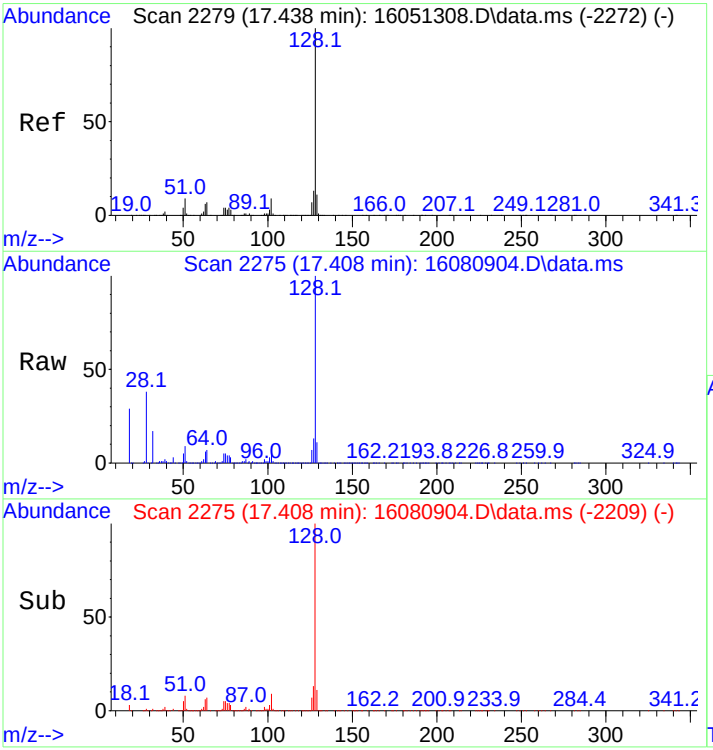


#58
Hexachlorobutadiene
Concen: 181.20 ng
RT: 17.287 min Scan# 2259
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:225 Resp: 175691

Ion	Ratio	Lower	Upper
225	100		
227	64.3	51.1	76.7

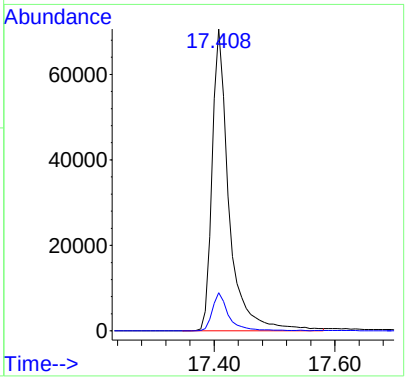


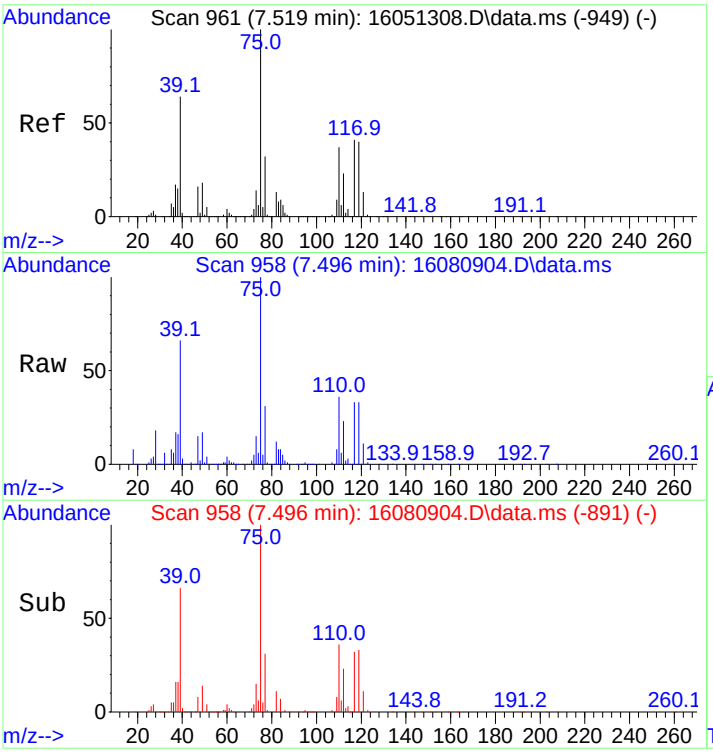


#59
Naphthalene
Concen: 30.28 ng
RT: 17.408 min Scan# 2275
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:128 Resp: 137094

Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8

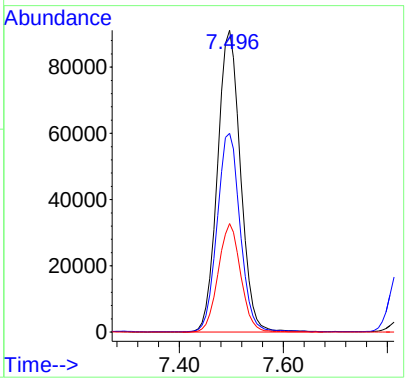


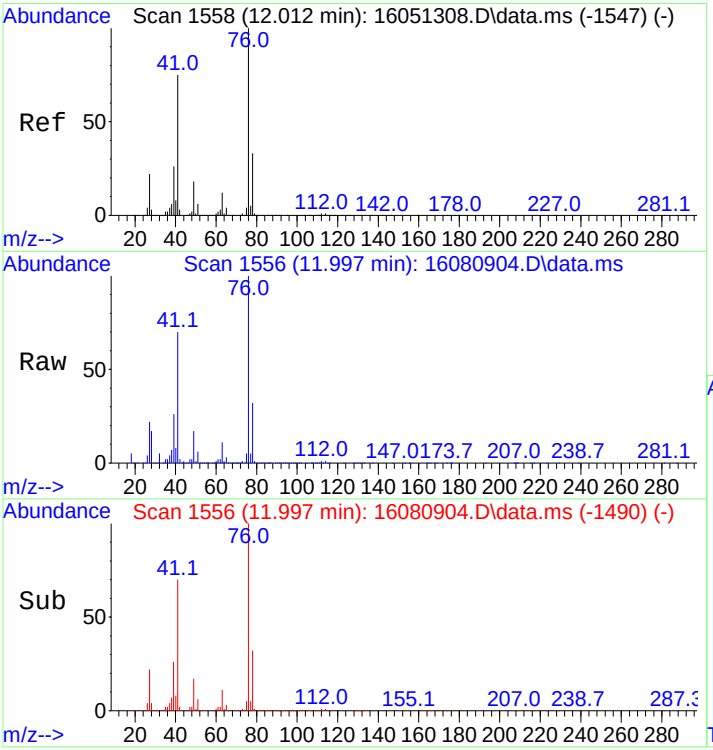


#60
1,1-Dichloropropene
Concen: 221.84 ng
RT: 7.496 min Scan# 958
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 75 Resp: 279625

Ion	Ratio	Lower	Upper
75	100		
39	65.9	51.8	77.6
110	35.2	29.3	43.9

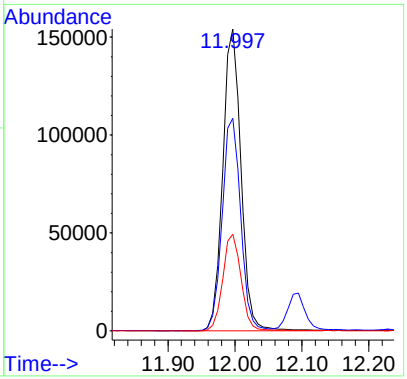


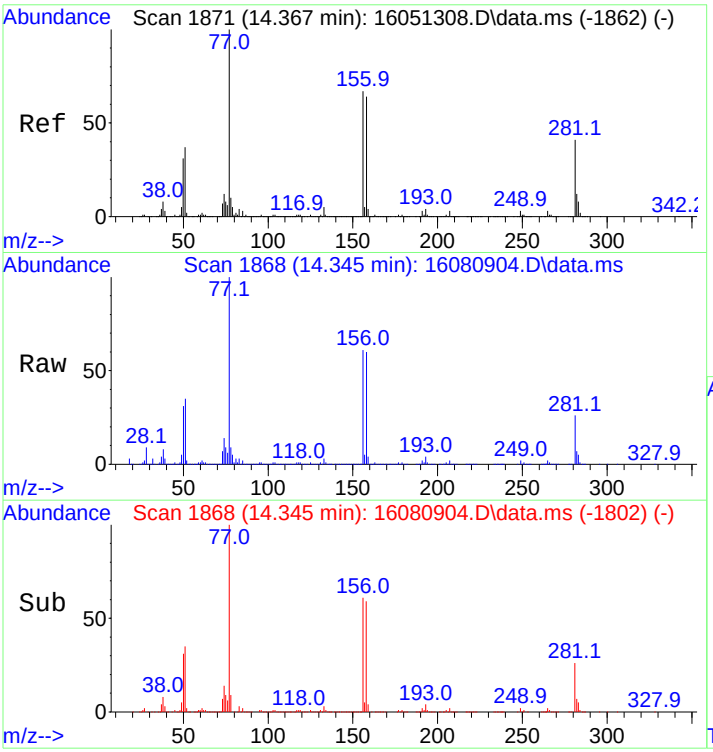


#61
1,3-Dichloropropane
Concen: 207.43 ng
RT: 11.997 min Scan# 1556
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 76 Resp: 291616

Ion	Ratio	Lower	Upper
76	100		
41	71.3	58.2	87.4
78	32.2	26.1	39.1

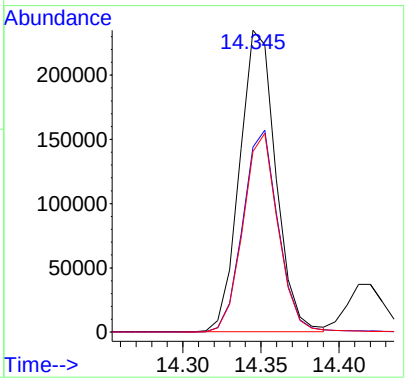


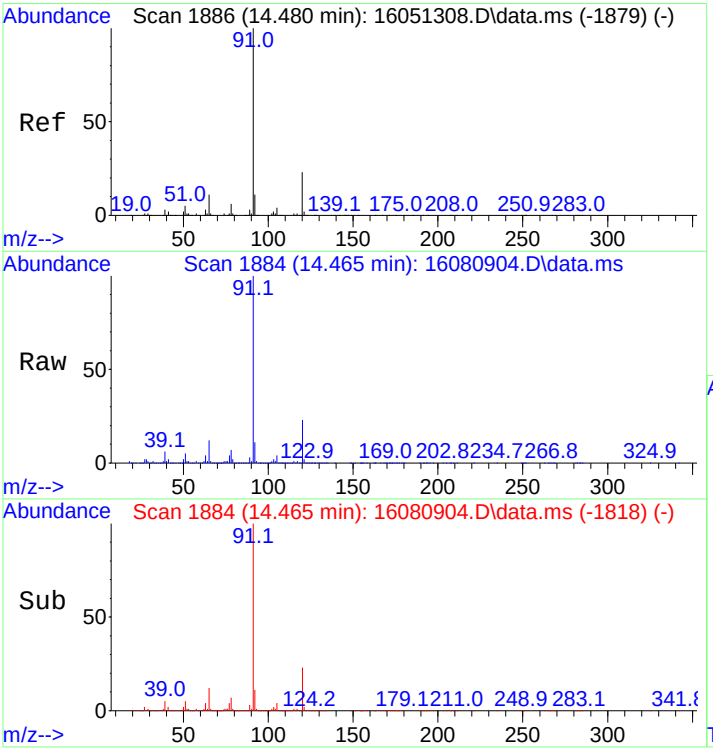


#62
Bromobenzene
Concen: 232.19 ng
RT: 14.345 min Scan# 1868
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 77 Resp: 378328

Ion	Ratio	Lower	Upper
77	100		
156	66.2	55.0	82.4
158	64.4	53.3	79.9

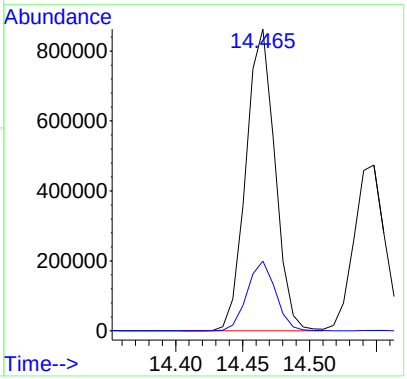


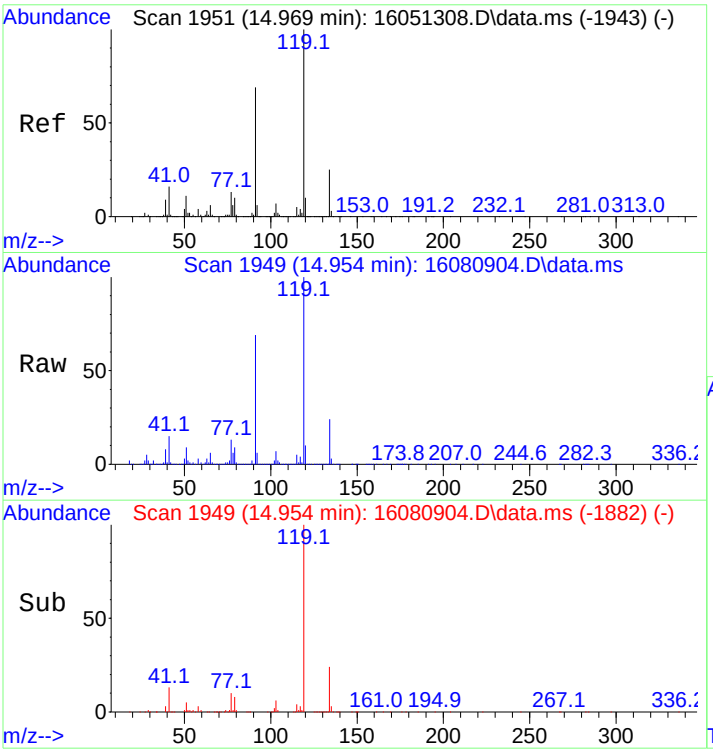


#63
n-Propylbenzene
Concen: 225.16 ng
RT: 14.465 min Scan# 1884
Delta R.T. -0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 1304658

Ion	Ratio	Lower	Upper
91	100		
120	22.7	18.6	28.0

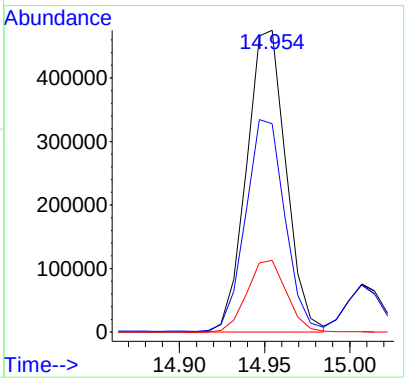


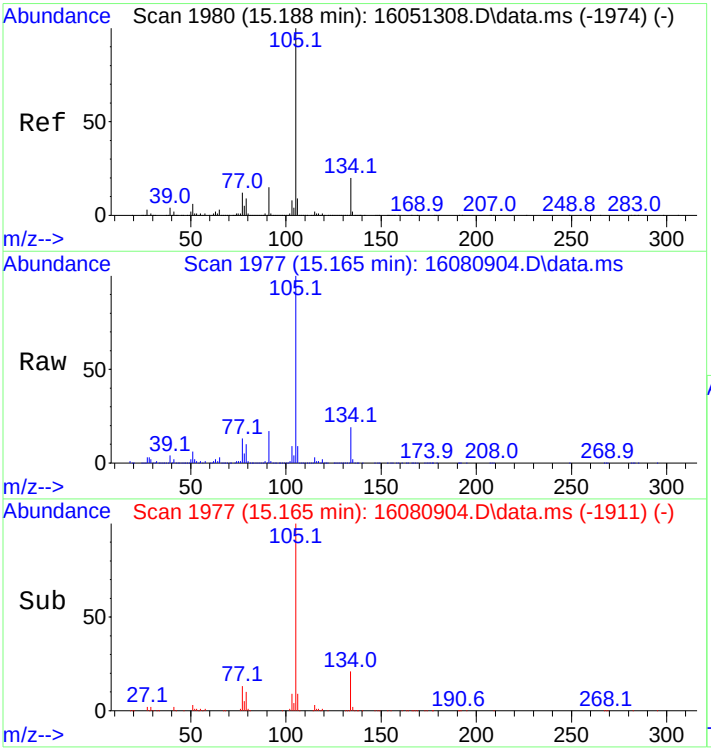


#64
tert-Butylbenzene
Concen: 220.94 ng
RT: 14.954 min Scan# 1949
Delta R.T. 0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:119 Resp: 766344

Ion	Ratio	Lower	Upper
119	100		
91	69.7	54.0	81.0
134	24.0	19.9	29.9

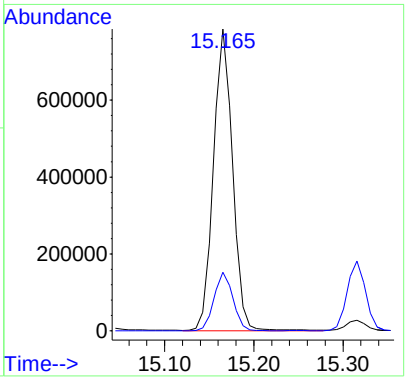


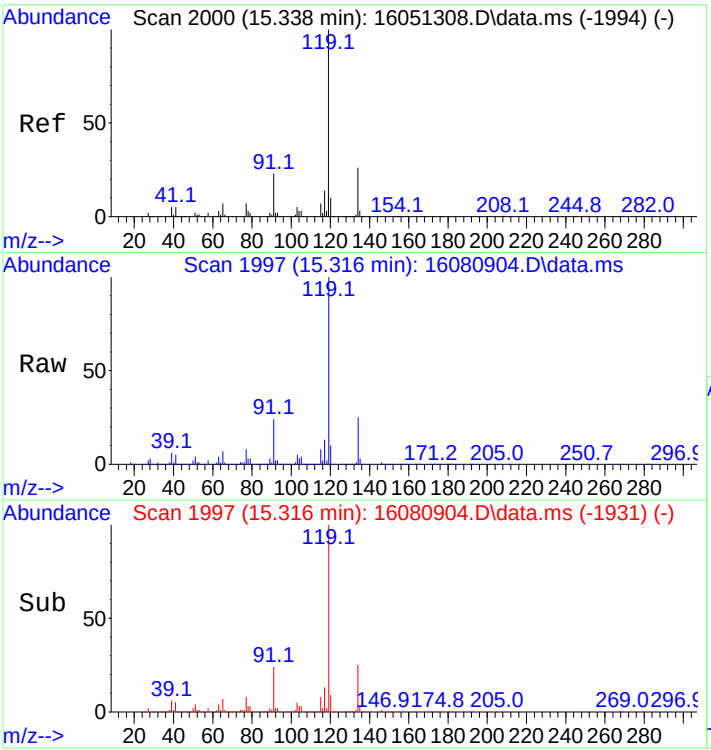


#65
sec-Butylbenzene
Concen: 218.17 ng
RT: 15.165 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:105 Resp: 1166159

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.7	23.5

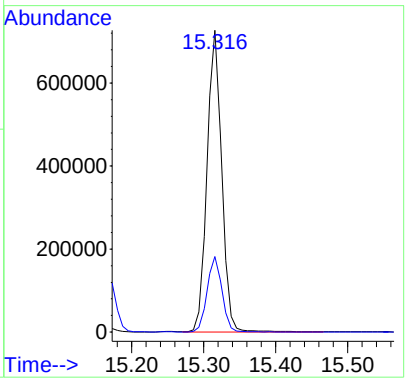


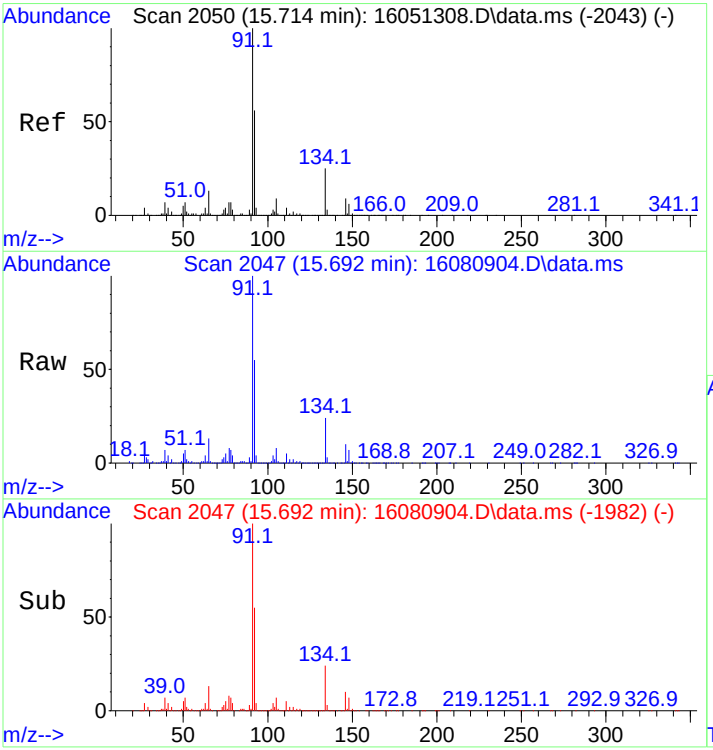


#66
p-Isopropyltoluene
Concen: 220.70 ng
RT: 15.316 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:119 Resp: 1040003

Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.6	31.0

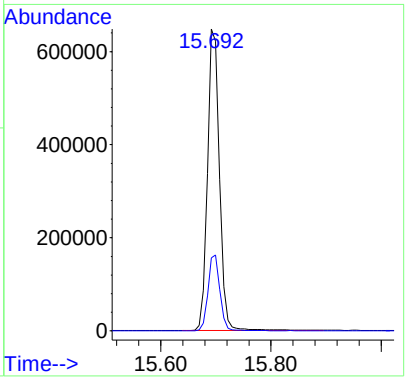


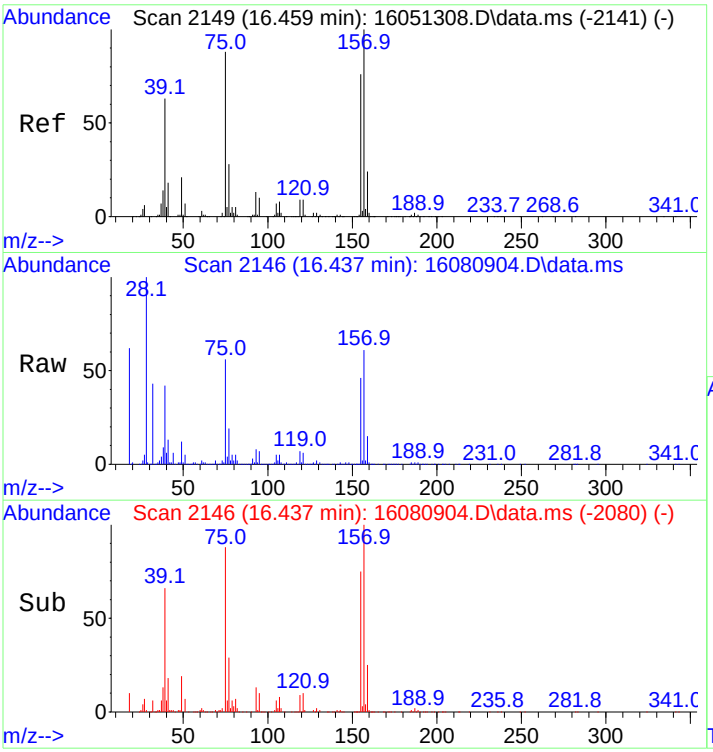


#67
n-Butylbenzene
Concen: 217.25 ng
RT: 15.692 min Scan# 2047
Delta R.T. -0.008 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion: 91 Resp: 989699

Ion	Ratio	Lower	Upper
91	100		
134	24.9	21.0	31.6

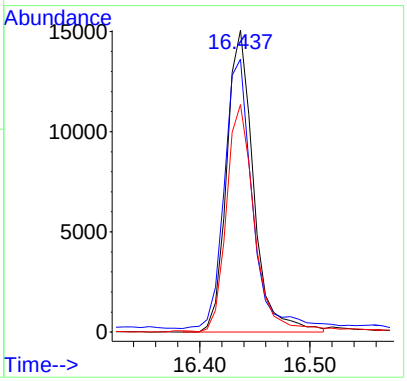




#68
1,2-Dibromo-3-chloropropane
Concen: 88.97 ng
RT: 16.437 min Scan# 2146
Delta R.T. 0.000 min
Lab File: 16080904.D
Acq: 9 Aug 2016 12:14 pm

Tgt Ion:157 Resp: 25450

Ion	Ratio	Lower	Upper
157	100		
75	94.0	68.6	103.0
155	79.6	62.2	93.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080906.D
Acq On : 9 Aug 2016 1:50 pm
Operator : SG Instrument MSD-3
Sample : VOST-blank
Misc : Coder SG
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 11:18:30 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.736	130	119682	250.00	ng	0.02
20) 1,4-Difluorobenzene	8.670	114	555431	250.00	ng	0.00
32) d5-Chlorobenzene	12.930	117	437762	250.00	ng	0.00
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.827	65	255204	339.21	ng	0.01
Spiked Amount 250.000			Recovery = 135.68%			
48) d10-Ethylbenzene(SPK)	12.998	98	725078	240.97	ng	0.00
Spiked Amount 200.000			Recovery = 120.49%			
49) d8-Toluene(SURR)	11.086	98	672516	259.32	ng	0.00
Spiked Amount 250.000			Recovery = 103.73%			
50) 4-Bromofluorobenzene(S...	14.217	95	201067	233.19	ng	0.00
Spiked Amount 250.000			Recovery = 93.28%			
Target Compounds						Qvalue
8) 1,1-Dichloroethene	0.000		0	N.D.	d	
23) Benzene	7.835	78	45779	11.38	ng	98
25) Trichloroethene	0.000		0	N.D.	d	
33) Toluene	11.184	91	10242m	2.36	ng	
39) Chlorobenzene	0.000		0	N.D.	d	

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

VOST160513Q7PTrev(RT).M Fri Aug 26 11:19:00 2016

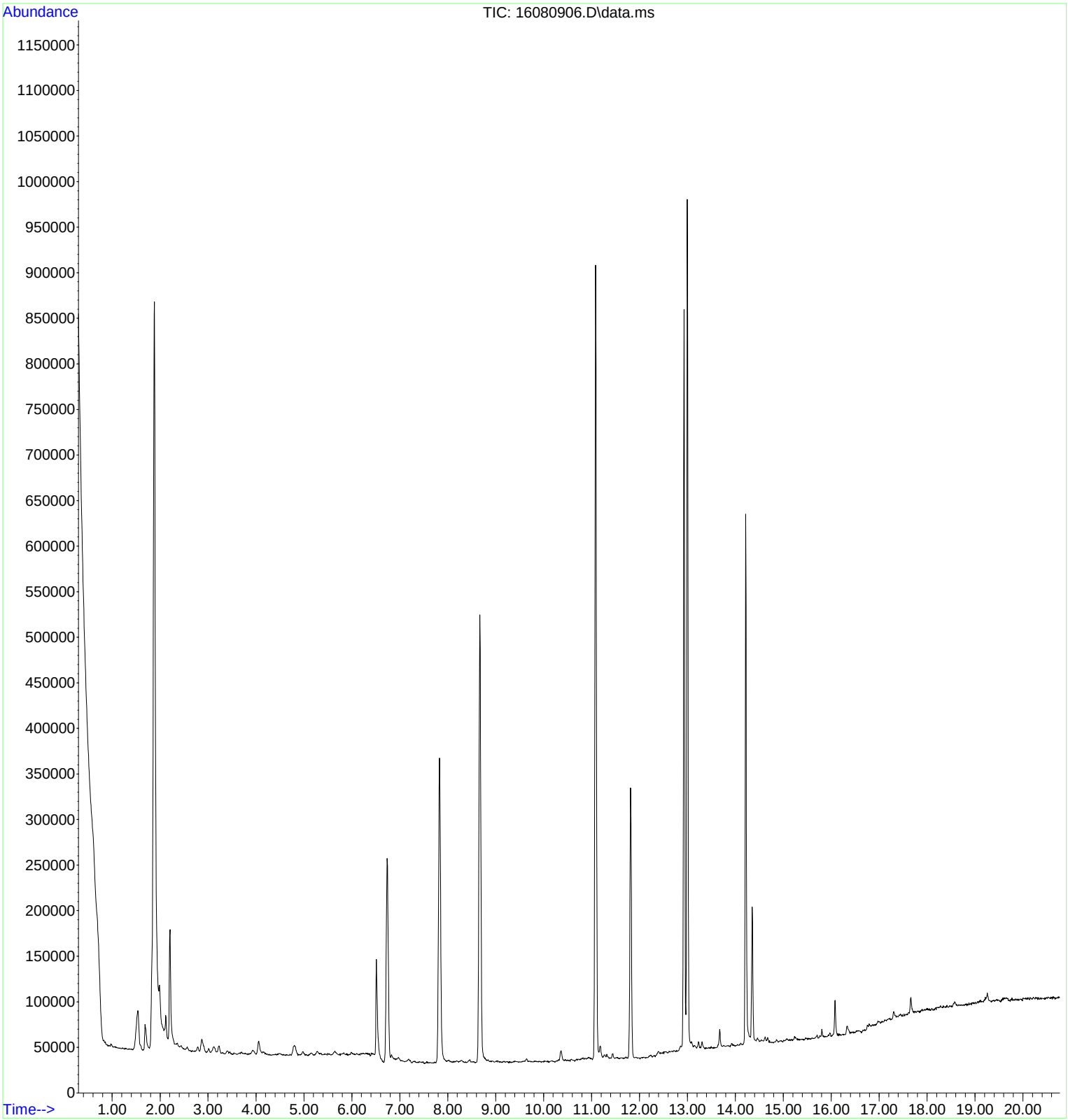
1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

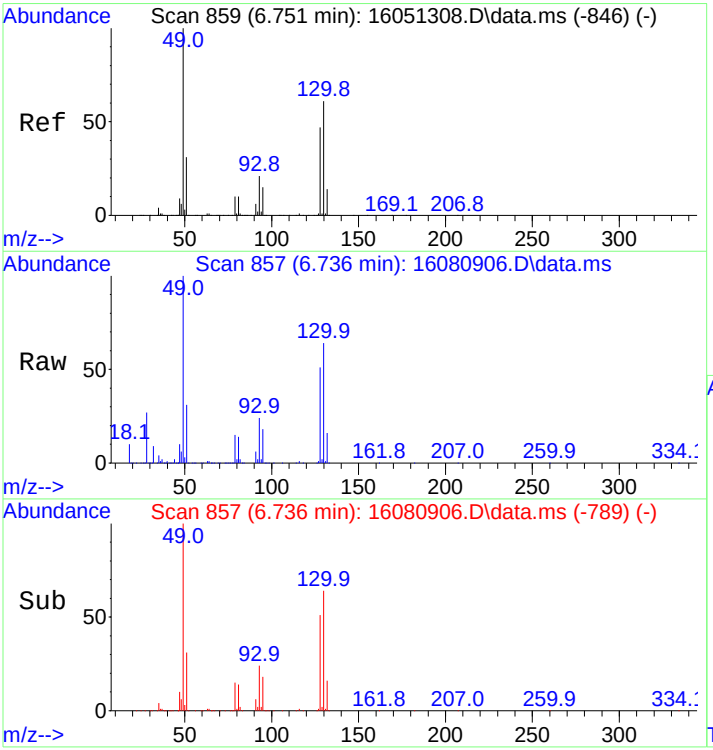
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080906.D
Acq On : 9 Aug 2016 1:50 pm
Operator : SG Instrument MSD-3
Sample : VOST-blank
Misc : Coder SG
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 14:49:30 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

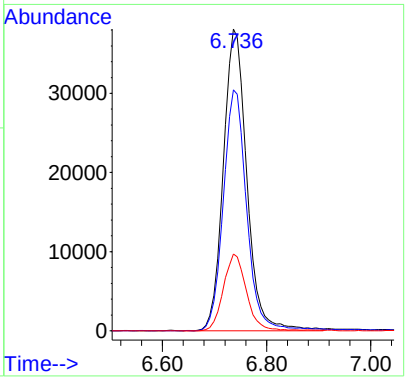


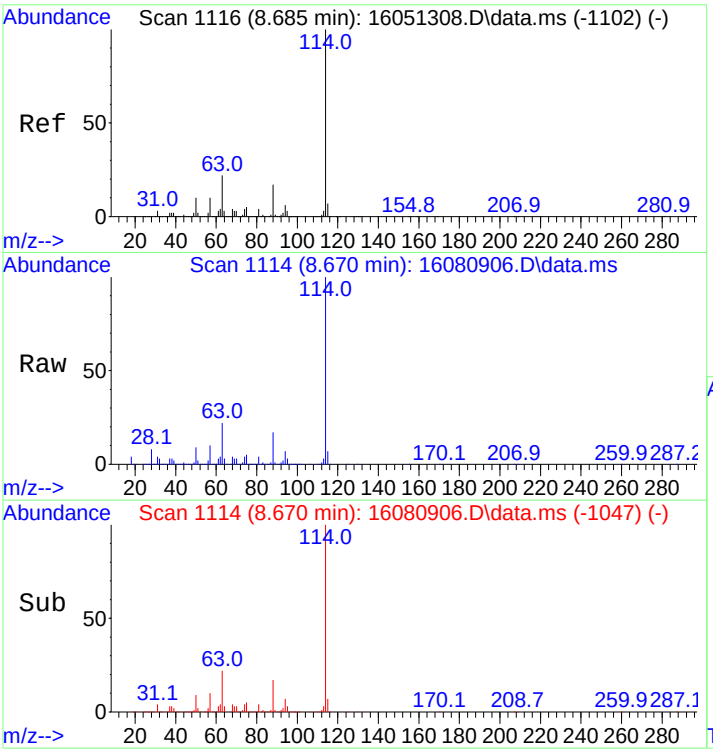


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.736 min Scan# 857
Delta R.T. 0.015 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion:130 Resp: 119682

Ion	Ratio	Lower	Upper
130	100		
128	79.6	63.0	94.4
132	25.1	19.9	29.9

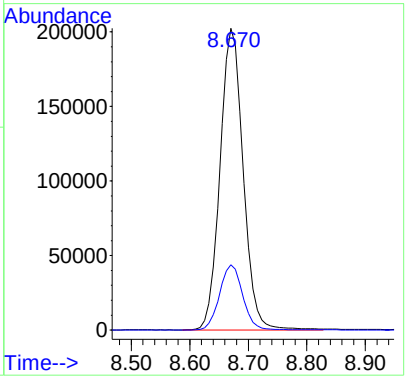


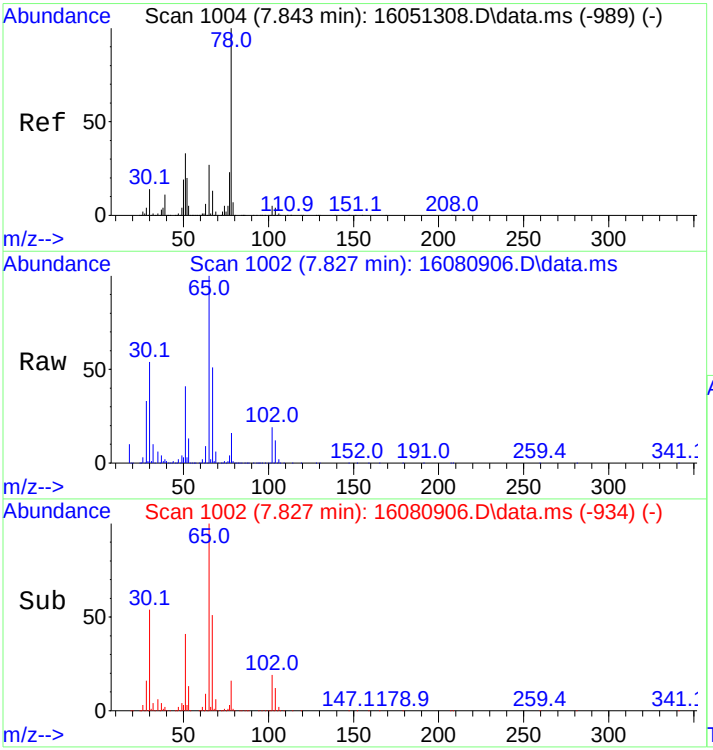


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.670 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion:114 Resp: 555431

Ion	Ratio	Lower	Upper
114	100		
63	21.9	17.8	26.8

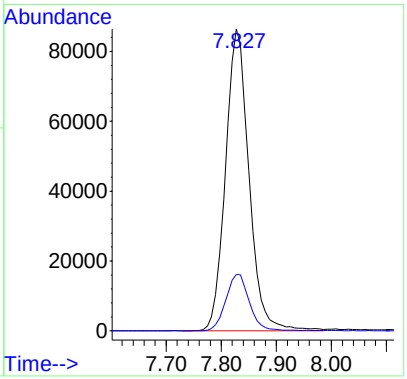


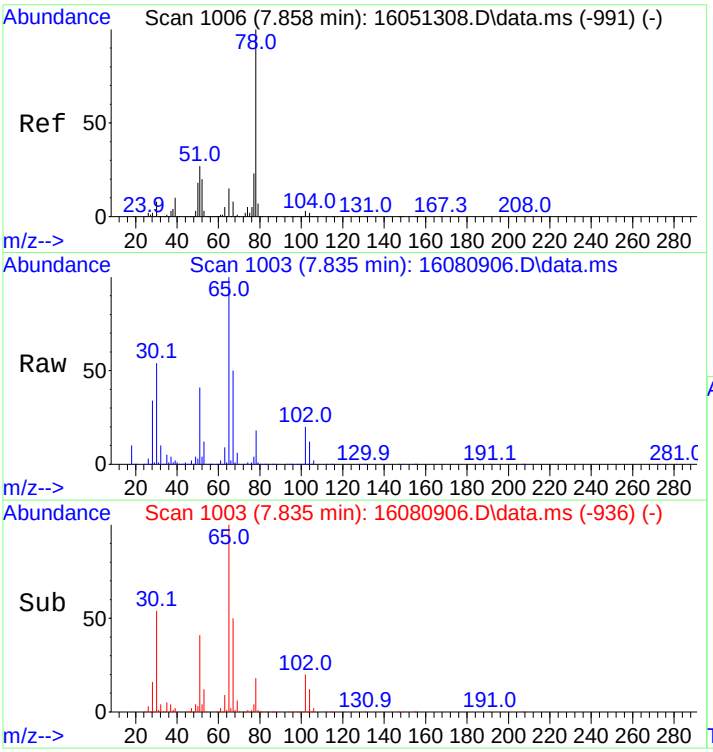


#21
d4-1,2-Dichloroethane(SURR)
Concen: 339.21 ng
RT: 7.827 min Scan# 1002
Delta R.T. 0.015 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 65 Resp: 255204

Ion	Ratio	Lower	Upper
65	100		
102	18.7	16.5	24.7

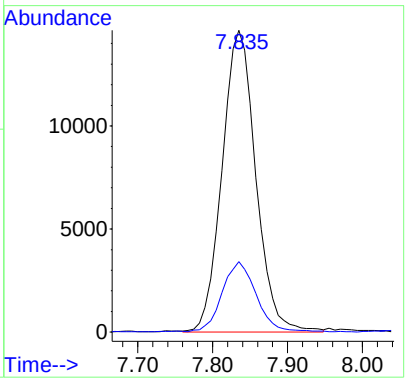


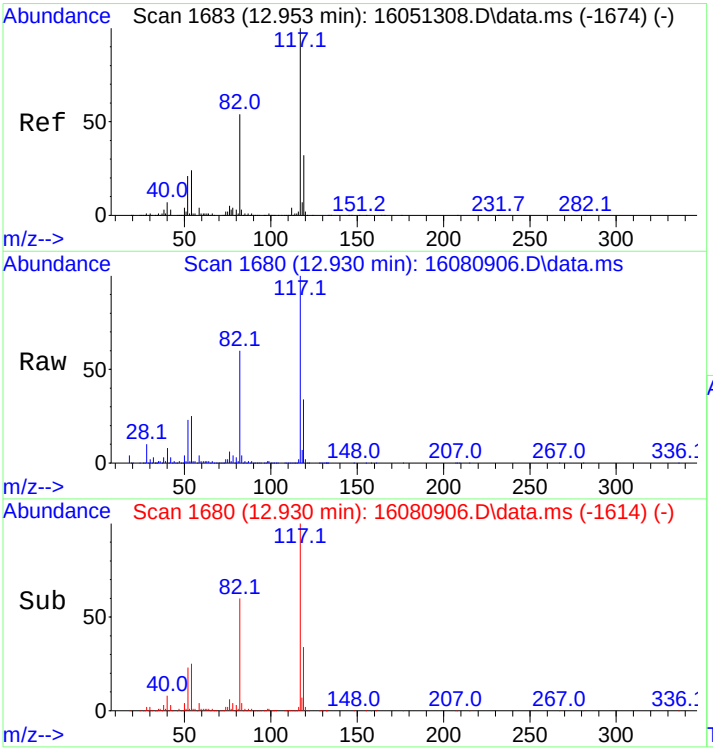


#23
Benzene
Concen: 11.38 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.007 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 78 Resp: 45779

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.3	27.5

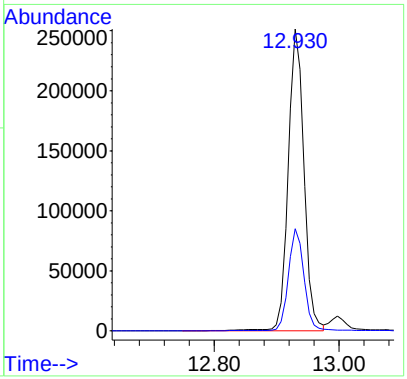


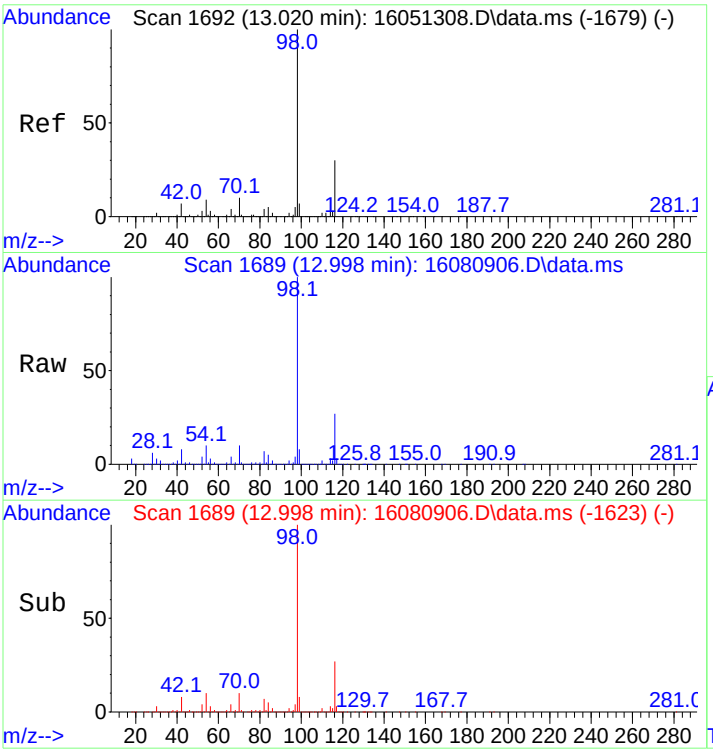


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. -0.000 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion:117 Resp: 437762

Ion	Ratio	Lower	Upper
117	100		
119	34.2	25.8	38.8

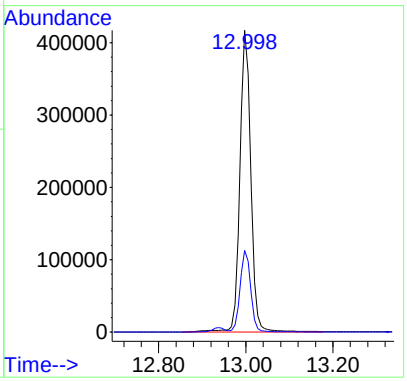


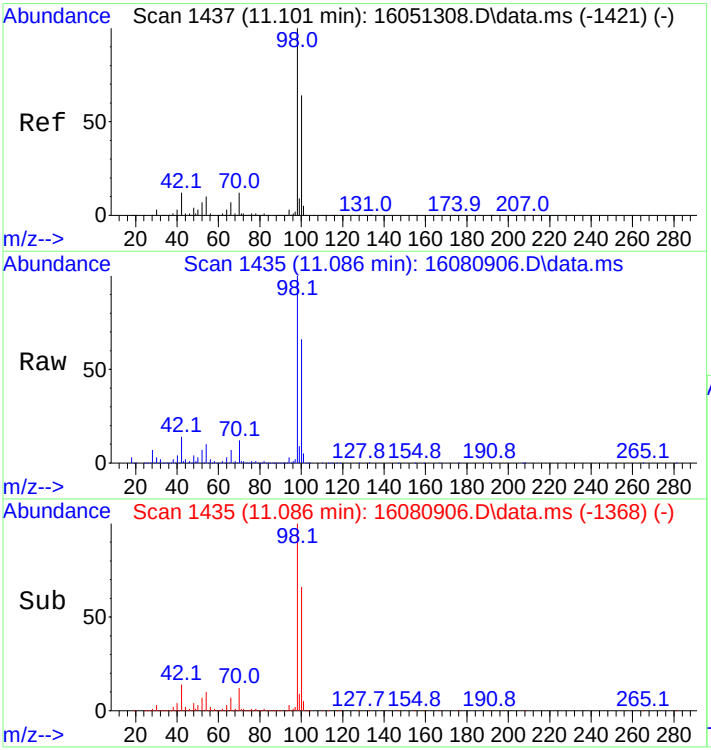


#48
d10-Ethylbenzene(SPK)
Concen: 240.97 ng
RT: 12.998 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 98 Resp: 725078

Ion	Ratio	Lower	Upper
98	100		
116	26.1	23.4	35.0

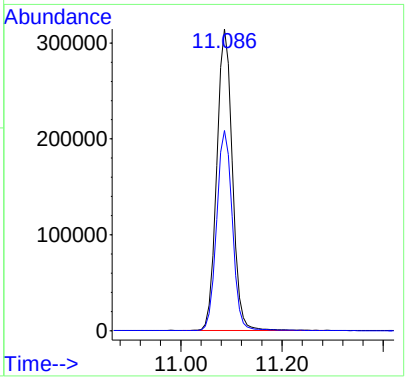


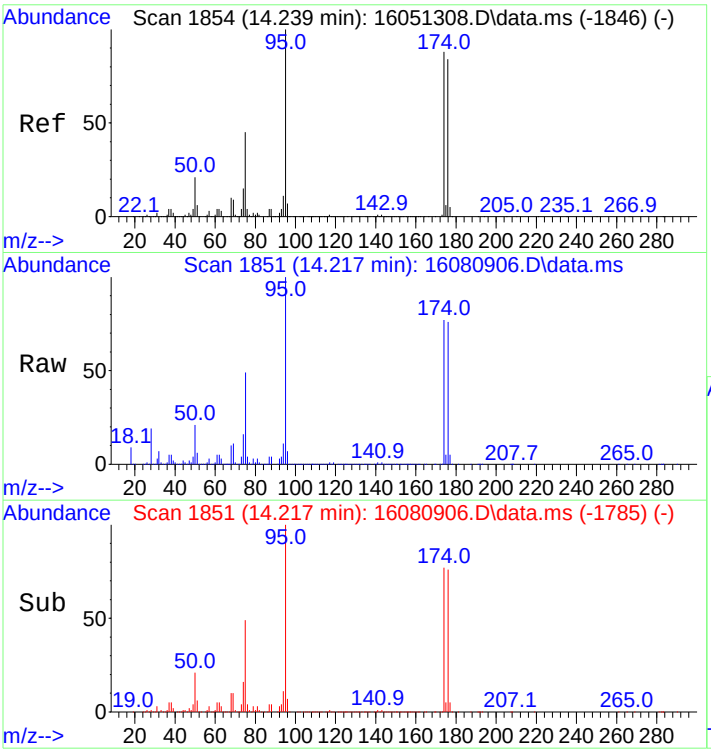


#49
d8-Toluene(SURR)
Concen: 259.32 ng
RT: 11.086 min Scan# 1435
Delta R.T. 0.007 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 98 Resp: 672516

Ion	Ratio	Lower	Upper
98	100		
100	66.7	56.0	84.0

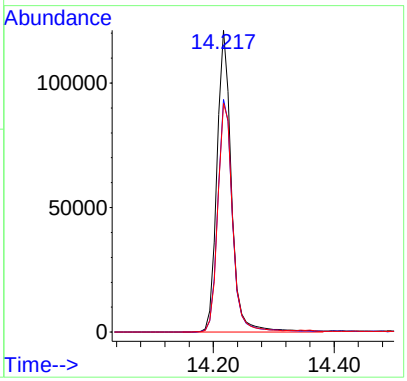


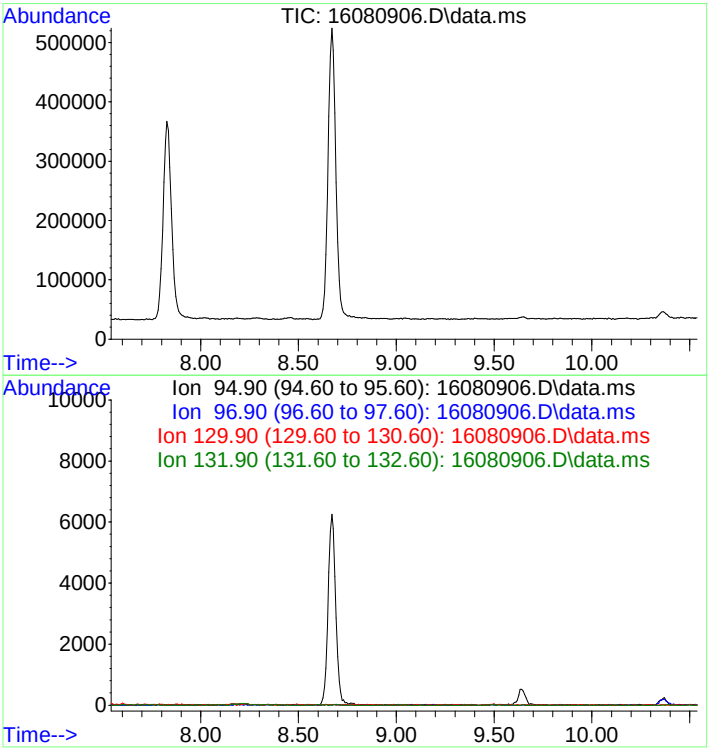


#50
4-Bromofluorobenzene(SURR)
Concen: 233.19 ng
RT: 14.217 min Scan# 1851
Delta R.T. -0.000 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 95 Resp: 201067

Ion	Ratio	Lower	Upper
95	100		
174	78.9	67.8	101.8
176	77.6	64.8	97.2



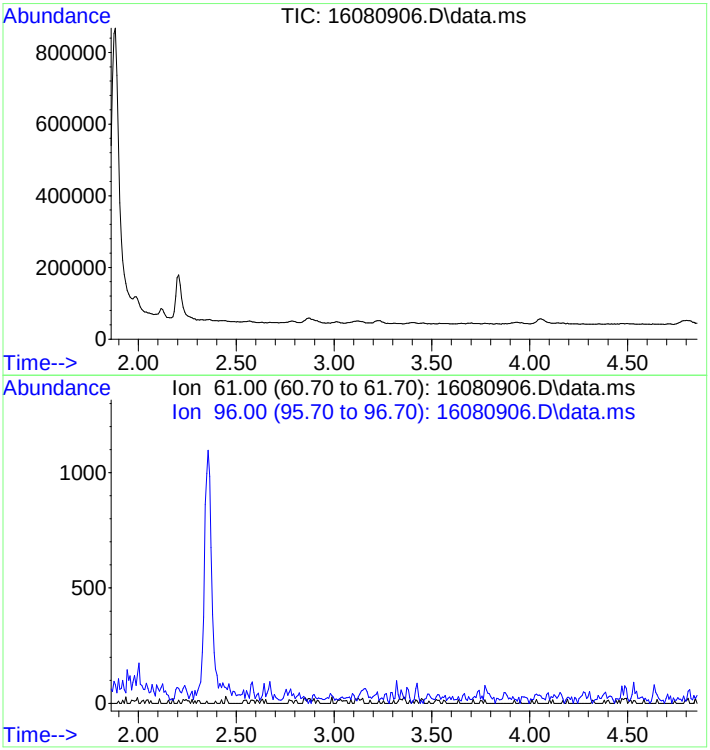


#25
Trichloroethene
Concen: Below Cal
Expected RT: 9.04 min

Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

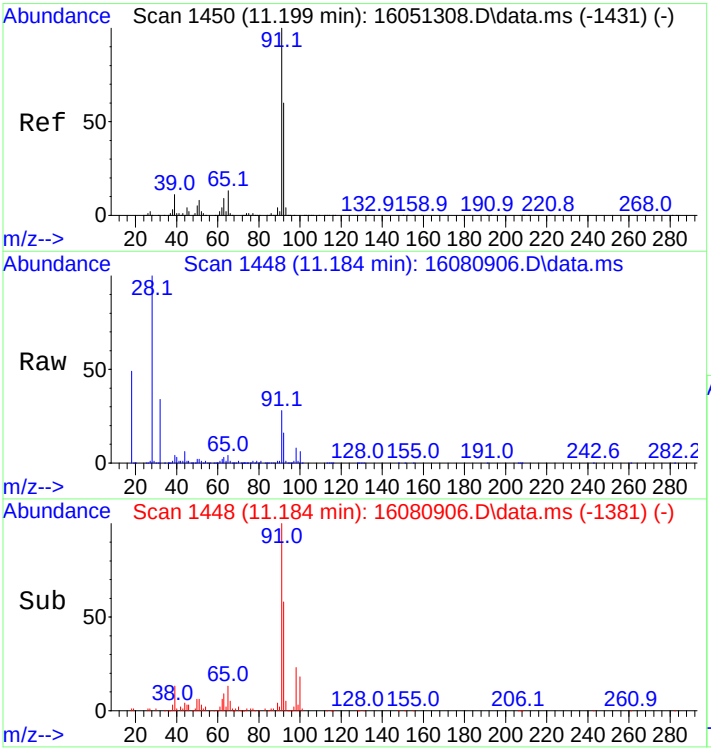


#8
1,1-Dichloroethene
Concen: Below Cal
Expected RT: 3.36 min

Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 61

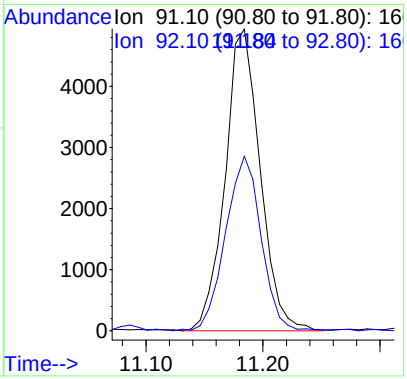
Sig	Exp Ratio
61	100
96	55.1

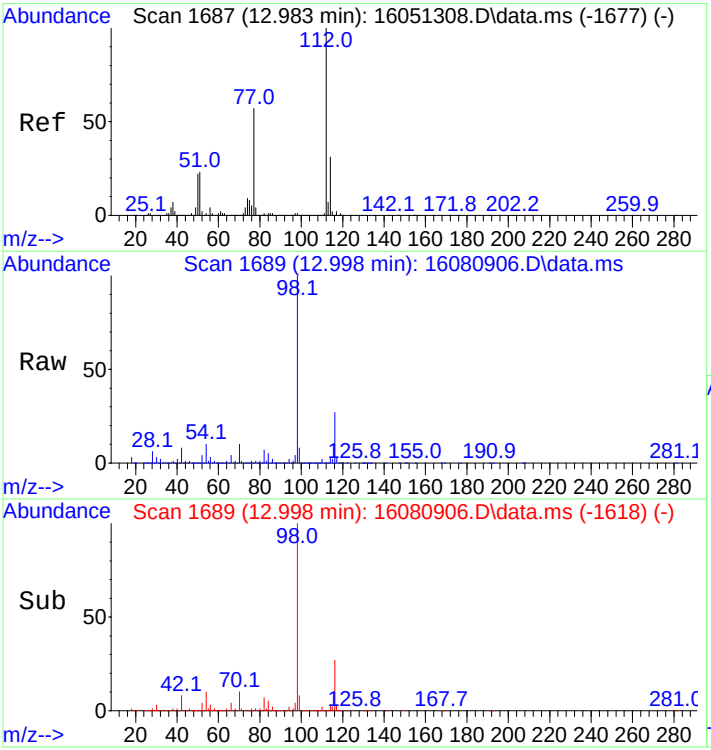


#33
Toluene
Concen: 2.36 ng
RT: 11.184 min Scan# 1448
Delta R.T. 0.007 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 91 Resp: 10260

Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.6	73.0

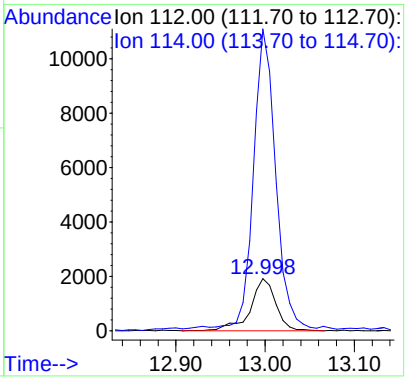




#39
Chlorobenzene
Concen: 1.45 ng
RT: 12.998 min Scan# 1689
Delta R.T. 0.037 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion:112 Resp: 3856

Ion	Ratio	Lower	Upper
112	100		
114	505.2	27.5	41.3#



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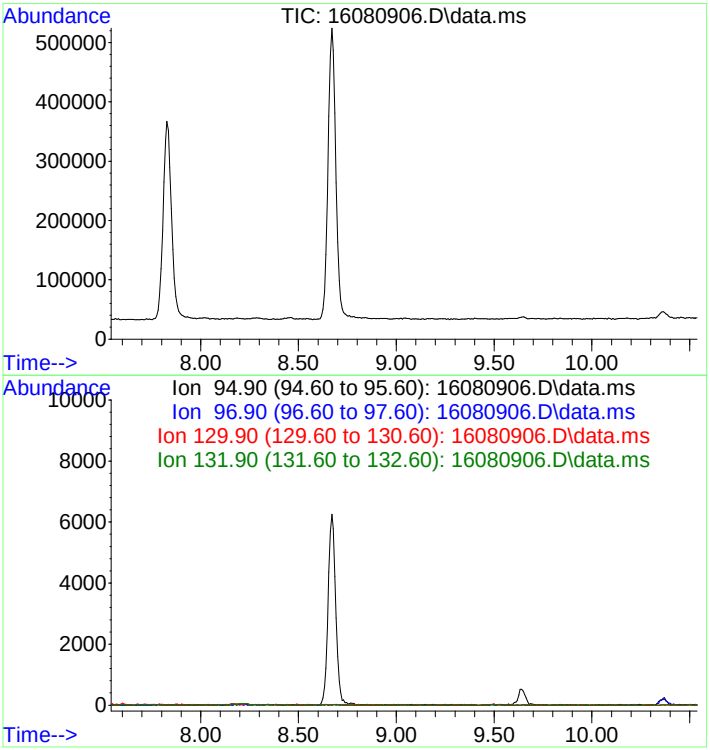
The chromatogram that follows includes peak integrations manually modified by the analyst

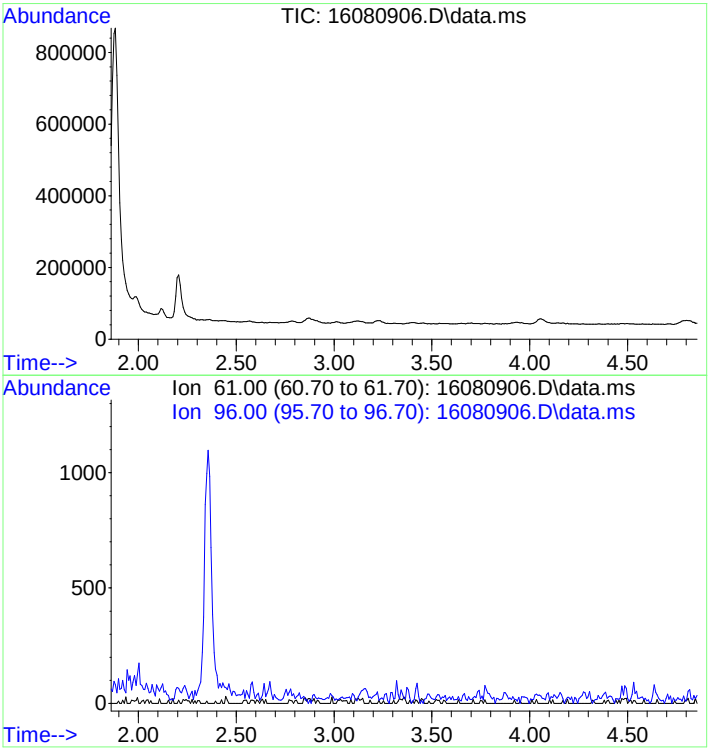


#25
Trichloroethene
Concen: N.D.
Expected RT: 9.04 min

Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

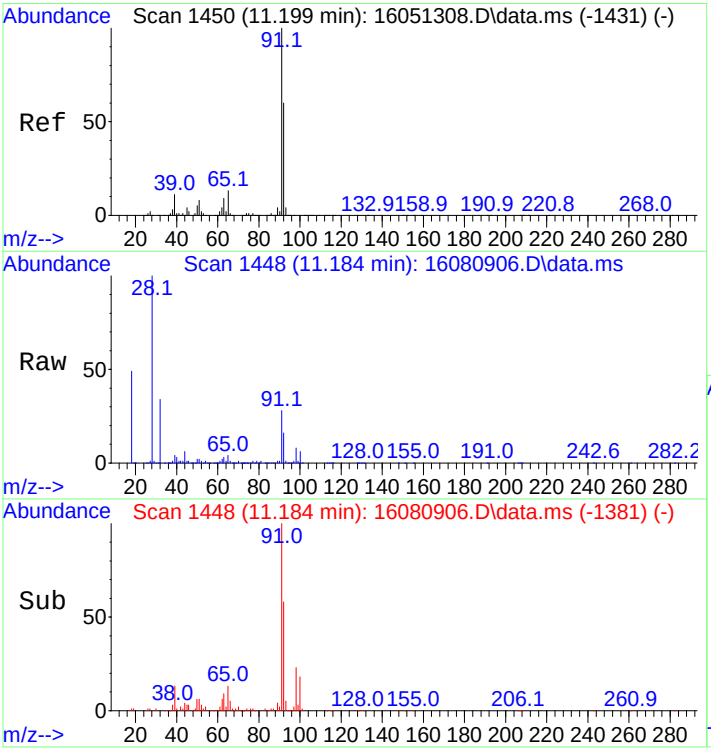


#8
1,1-Dichloroethene
Concen: N.D.
Expected RT: 3.36 min

Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 61

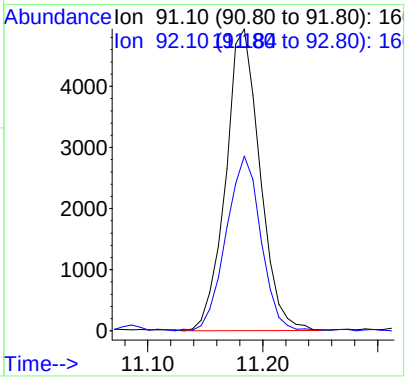
Sig	Exp Ratio
61	100
96	55.1

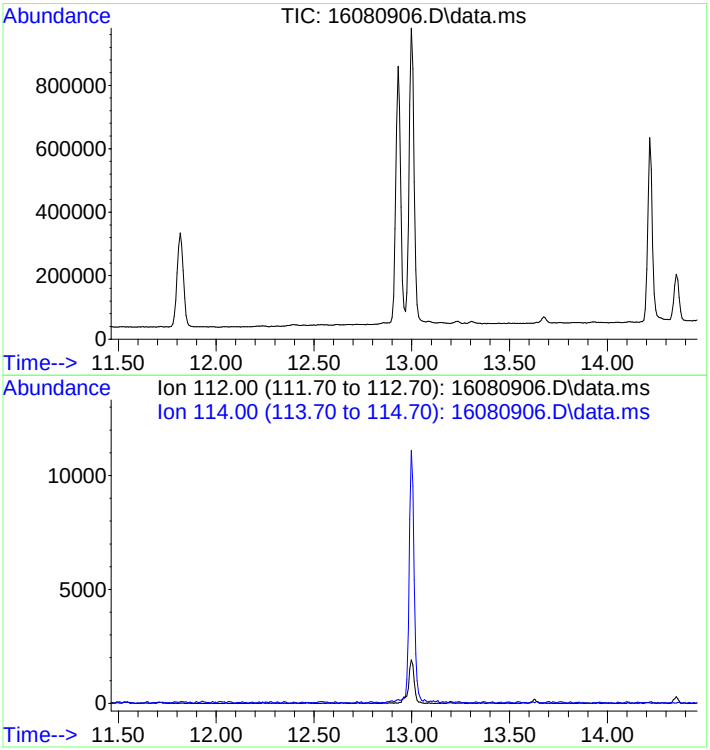


#33
Toluene
Concen: 2.36 ng m
RT: 11.184 min Scan# 1448
Delta R.T. 0.007 min
Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 91 Resp: 10242

Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.6	73.0





#39
Chlorobenzene
Concen: N.D.
Expected RT: 12.96 min

Lab File: 16080906.D
Acq: 9 Aug 2016 1:50 pm

Tgt Ion: 112

Sig	Exp Ratio
112	100
114	34.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080907.D
Acq On : 9 Aug 2016 2:16 pm
Operator : SG Instrument MSD-3
Sample : L1806542-10
Misc : Coder SG
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 15:06:18 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.744	130	124315	250.00	ng	0.02
20) 1,4-Difluorobenzene	8.670	114	539034	250.00	ng	0.00
32) d5-Chlorobenzene	12.930	117	434470	250.00	ng	0.00
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.827	65	262732	359.84	ng	0.01
Spiked Amount 250.000			Recovery	=	143.94%	
48) d10-Ethylbenzene(SPK)	12.998	98	713202	238.82	ng	0.00
Spiked Amount 200.000			Recovery	=	119.41%	
49) d8-Toluene(SURR)	11.086	98	659412	256.19	ng	0.00
Spiked Amount 250.000			Recovery	=	102.48%	
50) 4-Bromofluorobenzene(S...	14.217	95	212967	248.86	ng	0.00
Spiked Amount 250.000			Recovery	=	99.54%	
Target Compounds						Qvalue
23) Benzene	7.835	78	28215	7.23	ng	97
25) Trichloroethene	0.000		0	N.D.	d	

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

VOST160513Q7PTrev(RT).M Fri Aug 19 10:49:59 2016

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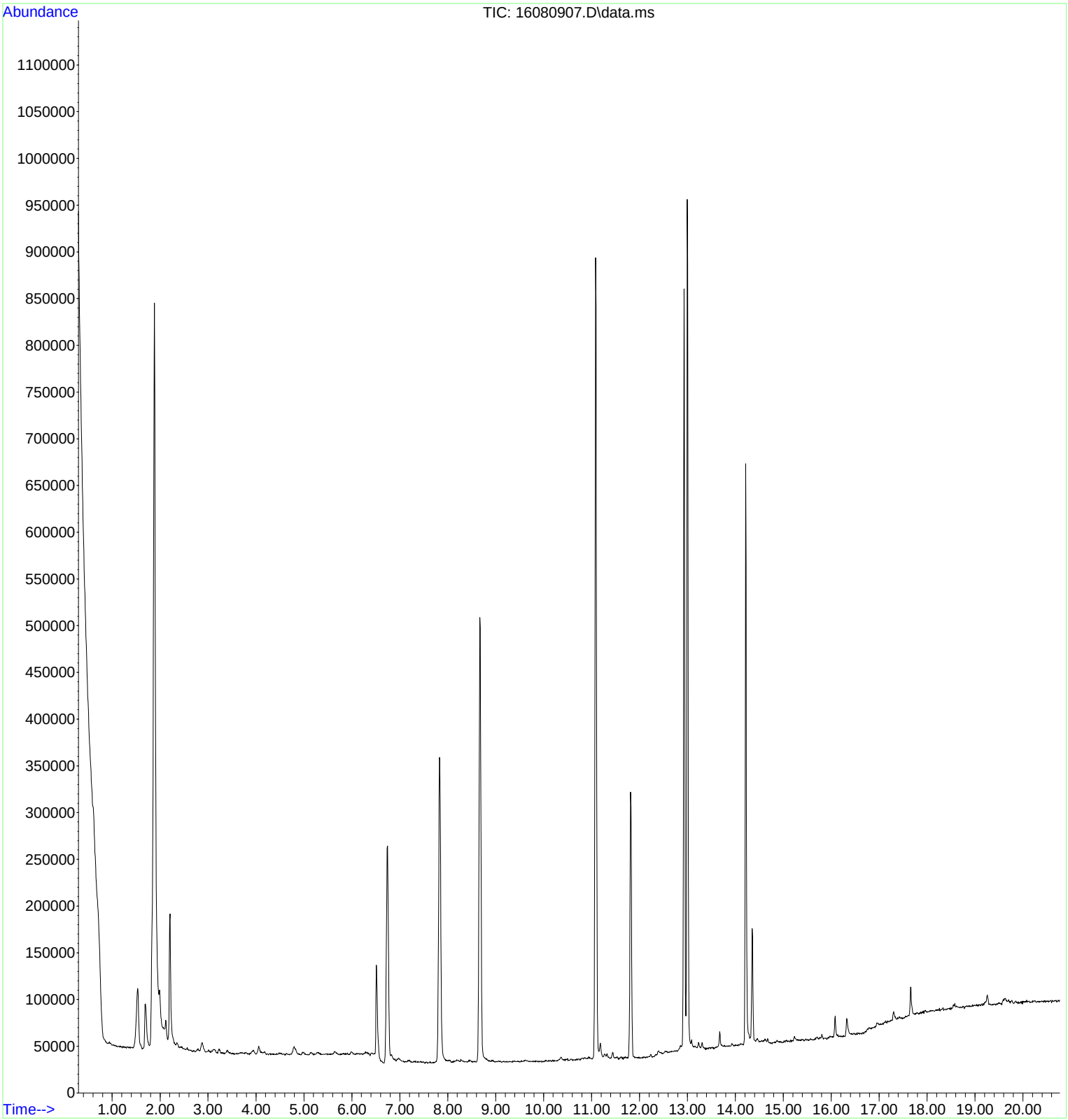
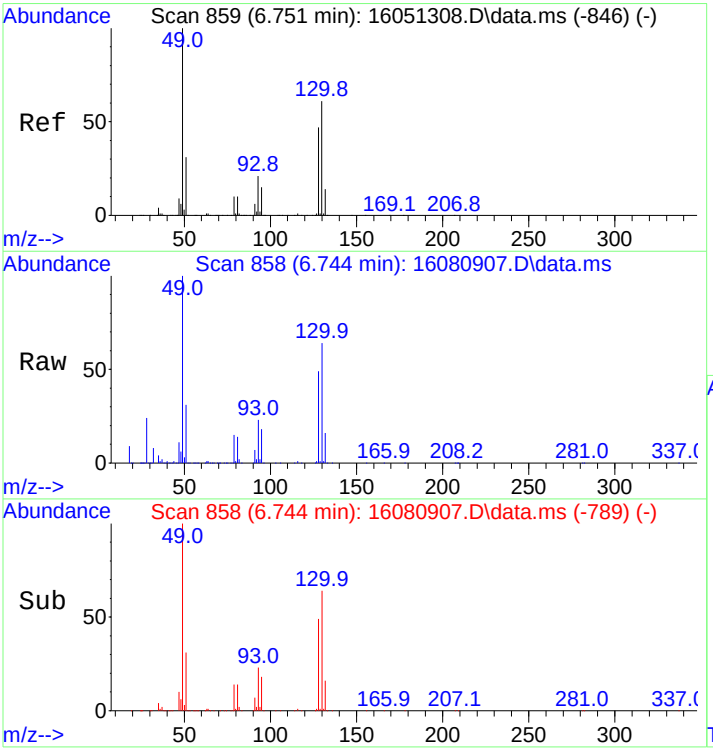
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080907.D
Acq On : 9 Aug 2016 2:16 pm
Operator : SG Instrument MSD-3
Sample : L1806542-10
Misc : Coder SG
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 15:06:18 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

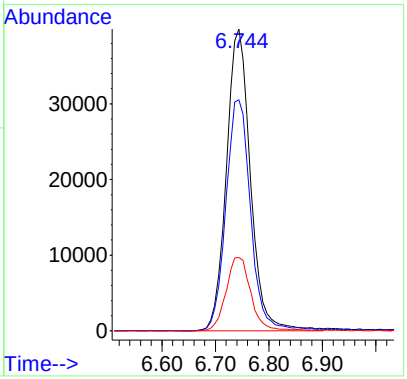


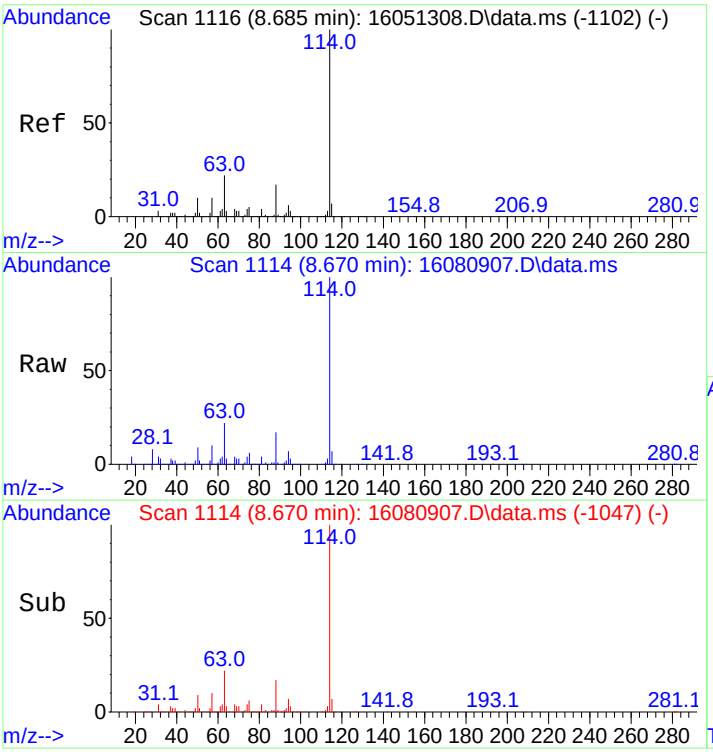


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.744 min Scan# 858
Delta R.T. 0.023 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion:130 Resp: 124315

Ion	Ratio	Lower	Upper
130	100		
128	78.7	63.0	94.4
132	25.2	19.9	29.9

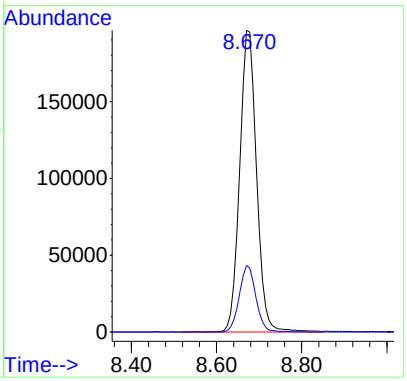


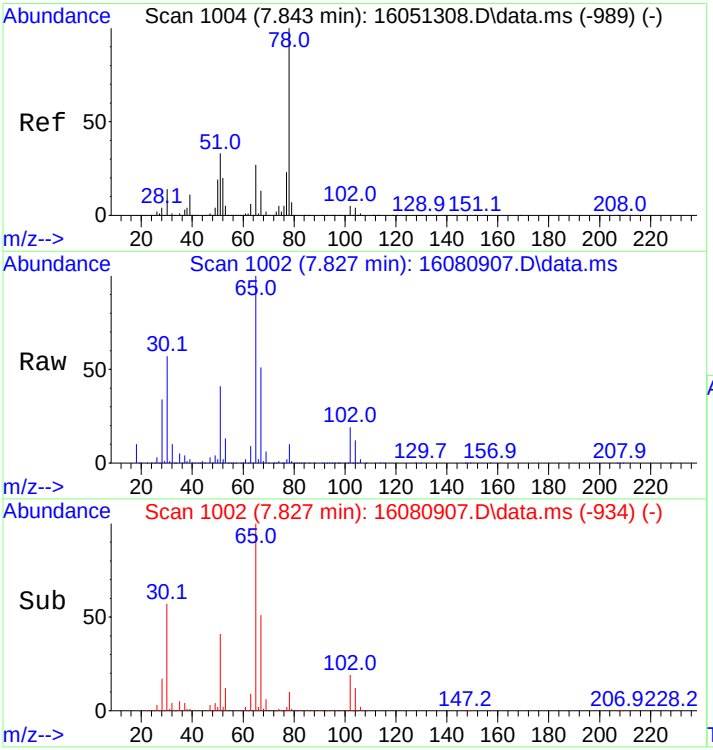


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.670 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion:114 Resp: 539034

Ion	Ratio	Lower	Upper
114	100		
63	21.9	17.8	26.8

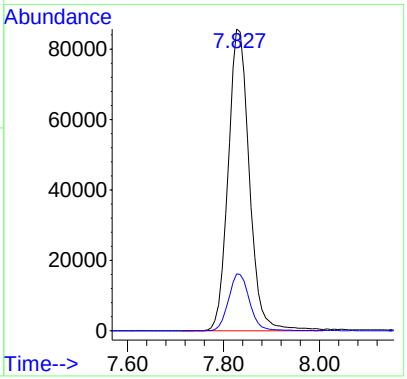


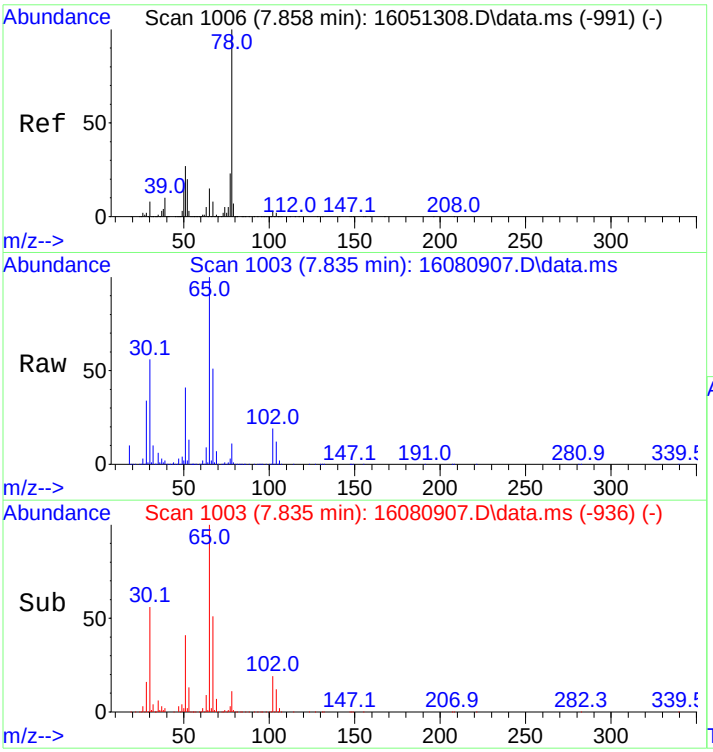


#21
d4-1,2-Dichloroethane(SURR)
Concen: 359.84 ng
RT: 7.827 min Scan# 1002
Delta R.T. 0.015 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion: 65 Resp: 262732

Ion	Ratio	Lower	Upper
65	100		
102	18.7	16.5	24.7

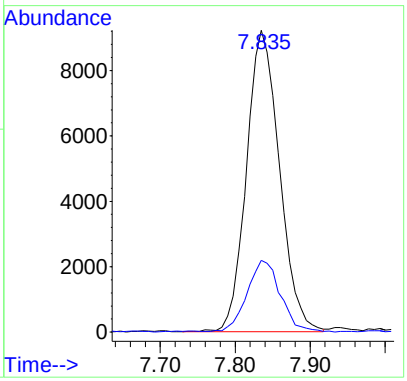


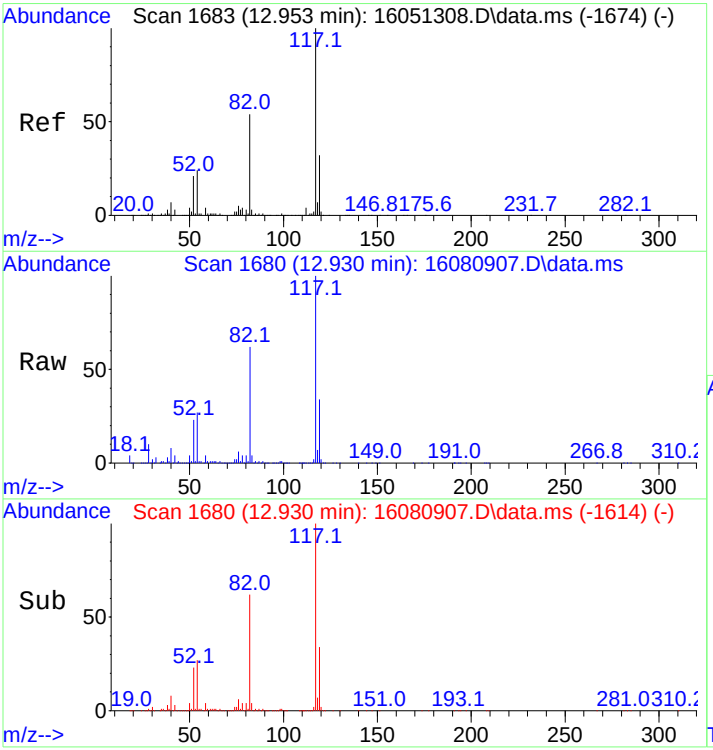


#23
Benzene
Concen: 7.23 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.007 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion: 78 Resp: 28215

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.3	27.5

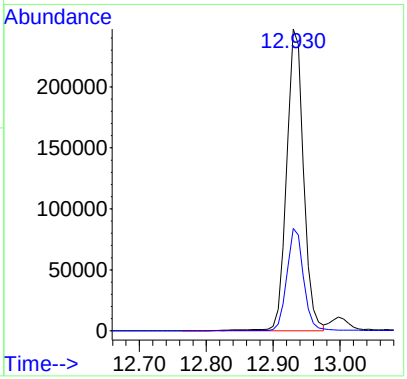


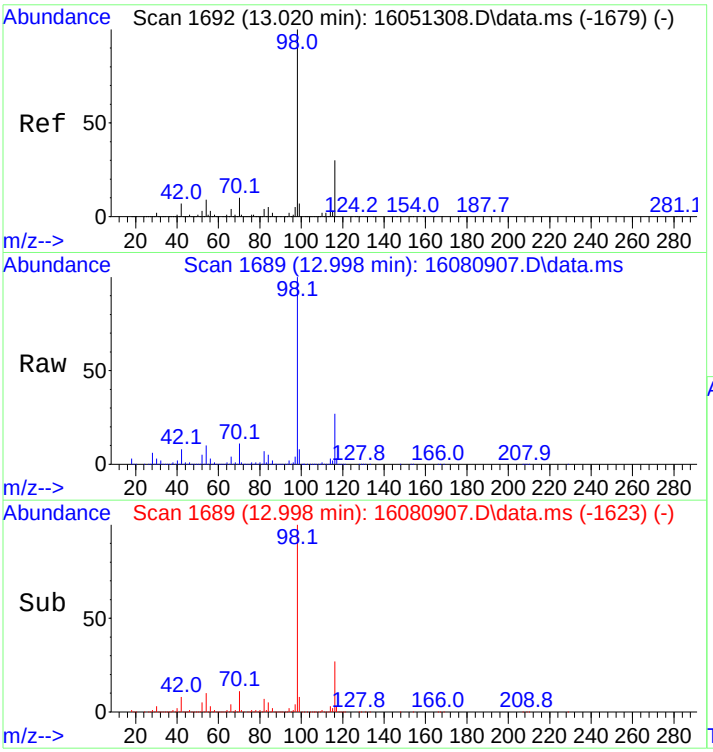


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. -0.000 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion:117 Resp: 434470

Ion	Ratio	Lower	Upper
117	100		
119	34.1	25.8	38.8

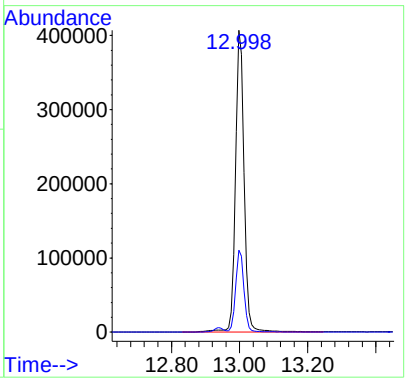


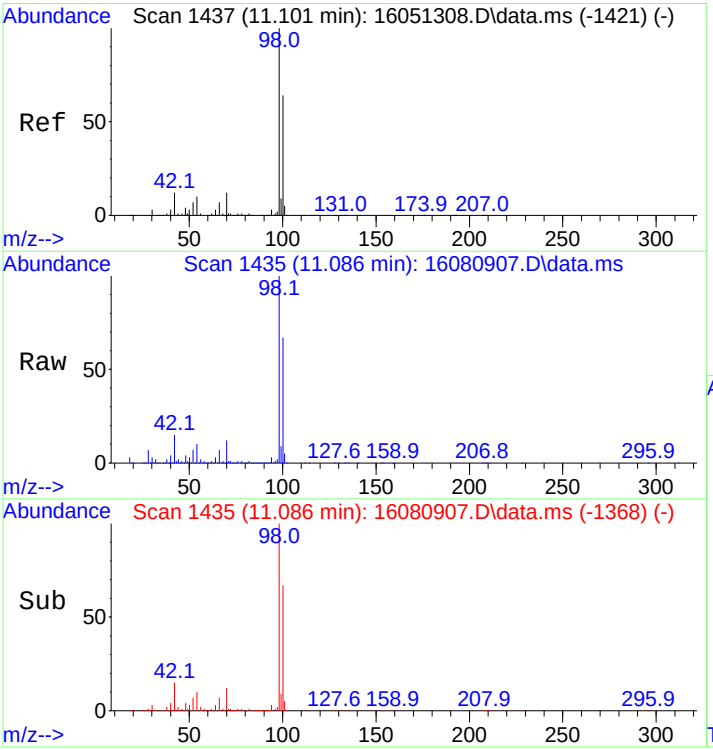


#48
d10-Ethylbenzene(SPK)
Concen: 238.82 ng
RT: 12.998 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion: 98 Resp: 713202

Ion	Ratio	Lower	Upper
98	100		
116	26.2	23.4	35.0

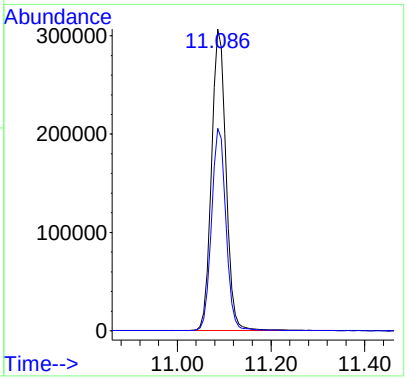


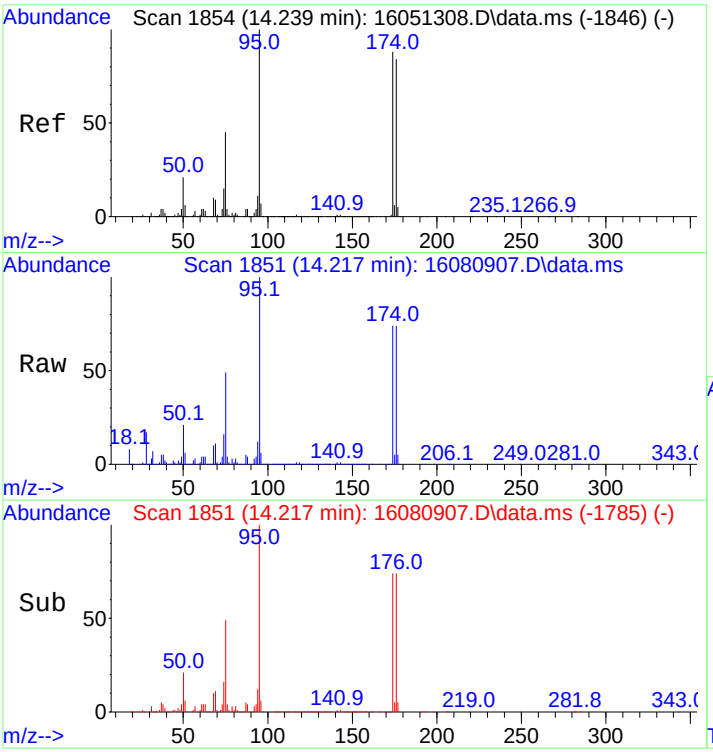


#49
d8-Toluene(SURR)
Concen: 256.19 ng
RT: 11.086 min Scan# 1435
Delta R.T. 0.007 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion: 98 Resp: 659412

Ion	Ratio	Lower	Upper
98	100		
100	66.7	56.0	84.0

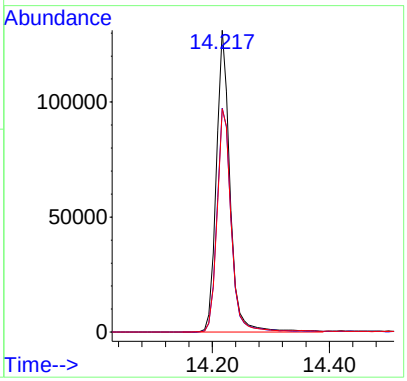


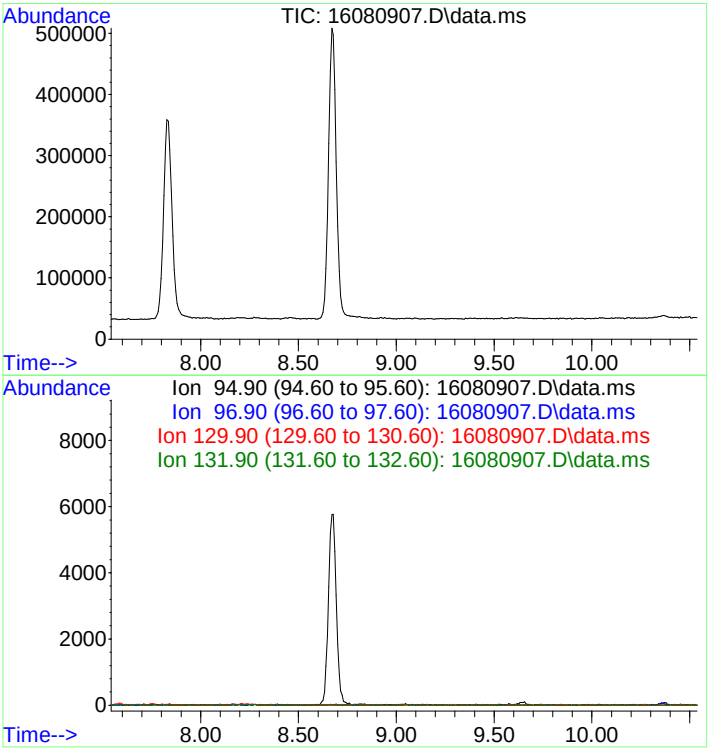


#50
4-Bromofluorobenzene(SURR)
Concen: 248.86 ng
RT: 14.217 min Scan# 1851
Delta R.T. -0.000 min
Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion: 95 Resp: 212967

Ion	Ratio	Lower	Upper
95	100		
174	76.9	67.8	101.8
176	76.4	64.8	97.2





#25
Trichloroethene
Concen: Below Cal
Expected RT: 9.04 min

Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

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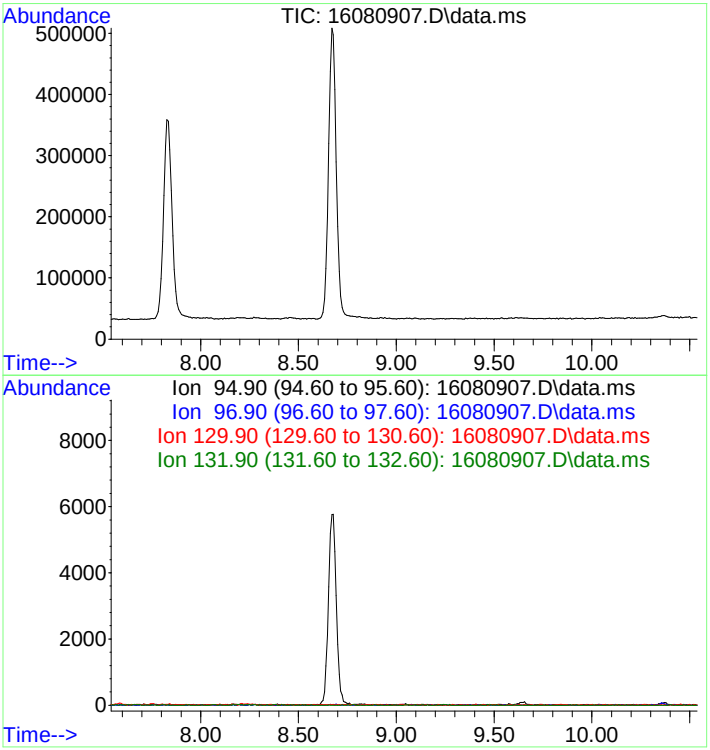
The chromatogram that follows includes peak integrations manually modified by the analyst



#25
Trichloroethene
Concen: N.D.
Expected RT: 9.04 min

Lab File: 16080907.D
Acq: 9 Aug 2016 2:16 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080909.D
Acq On : 9 Aug 2016 3:24 pm
Operator : SG Instrument MSD-3
Sample : L1806542-6
Misc : Coder SG
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 15:10:15 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.736	130	125982	250.00 ng	0.02
20) 1,4-Difluorobenzene	8.670	114	492074	250.00 ng	0.00
32) d5-Chlorobenzene	12.930	117	335384	250.00 ng	0.00
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.820	65	242030	363.12 ng	0.00
Spiked Amount 250.000			Recovery	= 145.25%	
48) d10-Ethylbenzene(SPK)	12.998	98	9146	3.97 ng	0.00
Spiked Amount 200.000			Recovery	= 1.98%	
49) d8-Toluene(SURR)	11.086	98	576239	290.02 ng	0.00
Spiked Amount 250.000			Recovery	= 116.01%	
50) 4-Bromofluorobenzene(S...	14.217	95	138463	209.60 ng	0.00
Spiked Amount 250.000			Recovery	= 83.84%	
Target Compounds					Qvalue
23) Benzene	7.835	78	98230	27.57 ng	97
25) Trichloroethene	9.047	95	1071m	1.34 ng	

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

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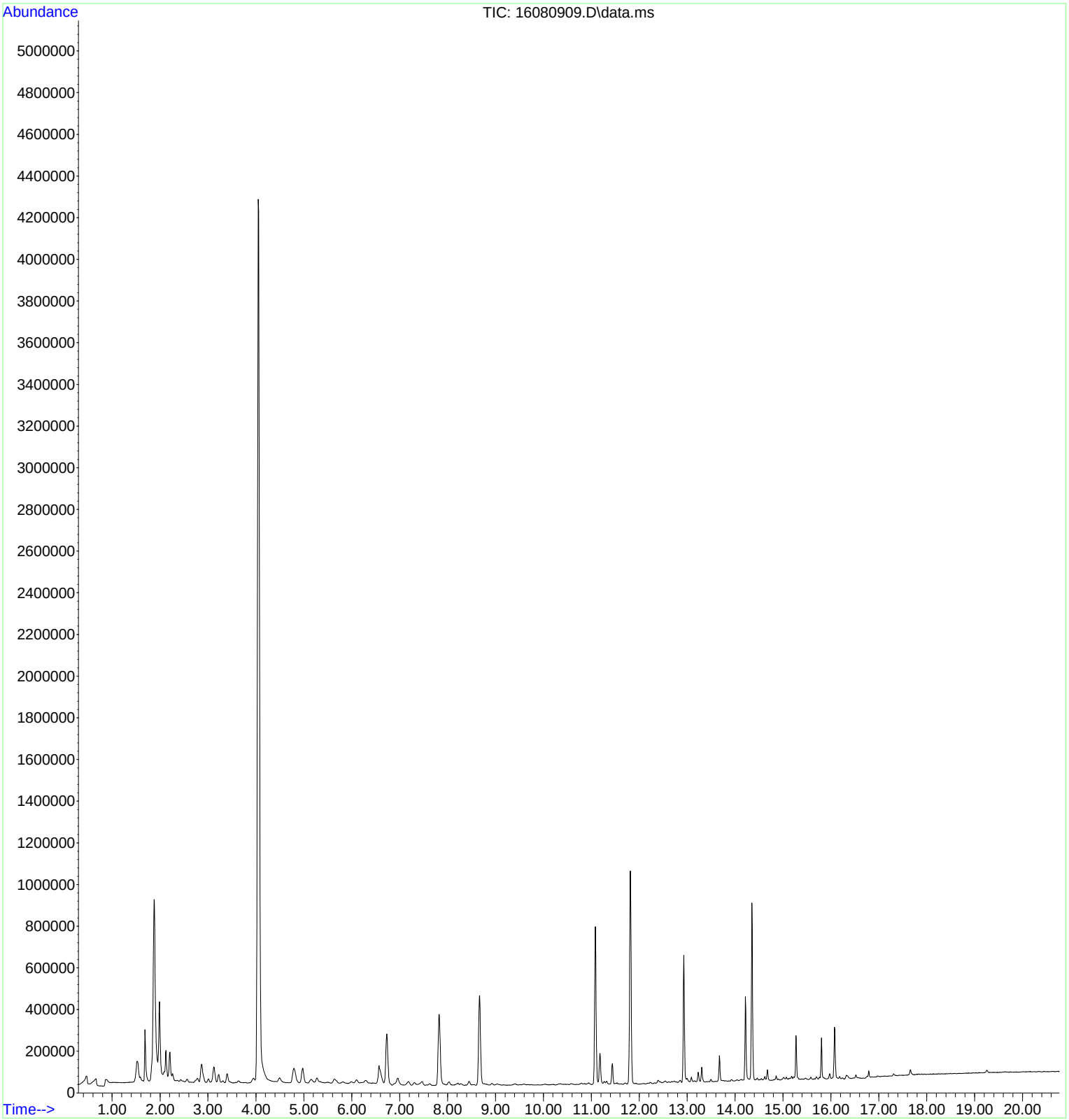
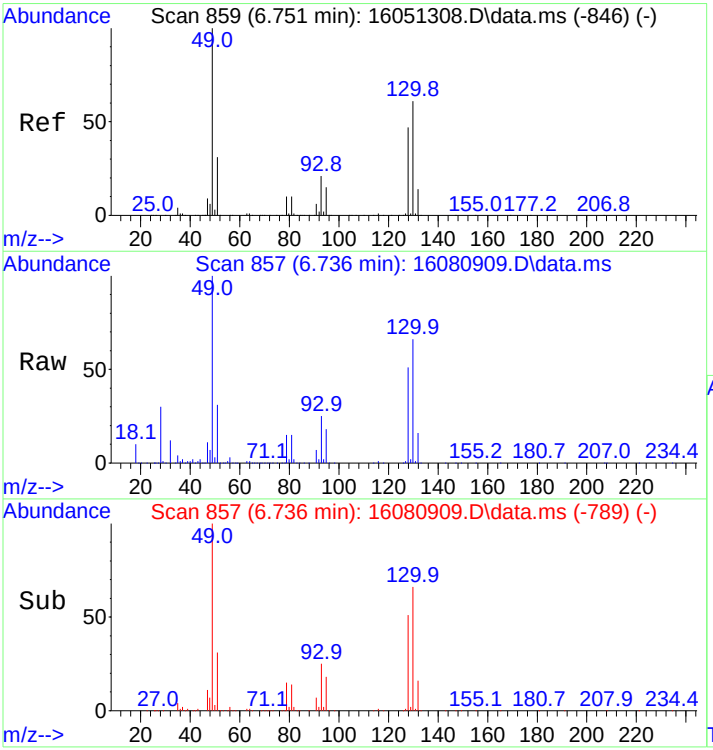
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080909.D
Acq On : 9 Aug 2016 3:24 pm
Operator : SG Instrument MSD-3
Sample : L1806542-6
Misc : Coder SG
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 15:10:15 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

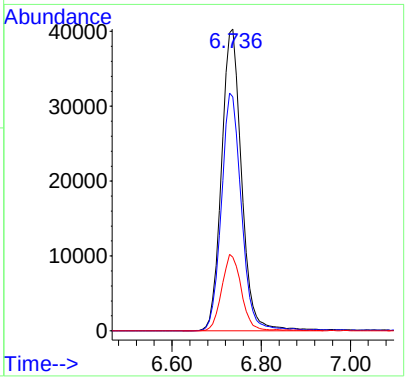


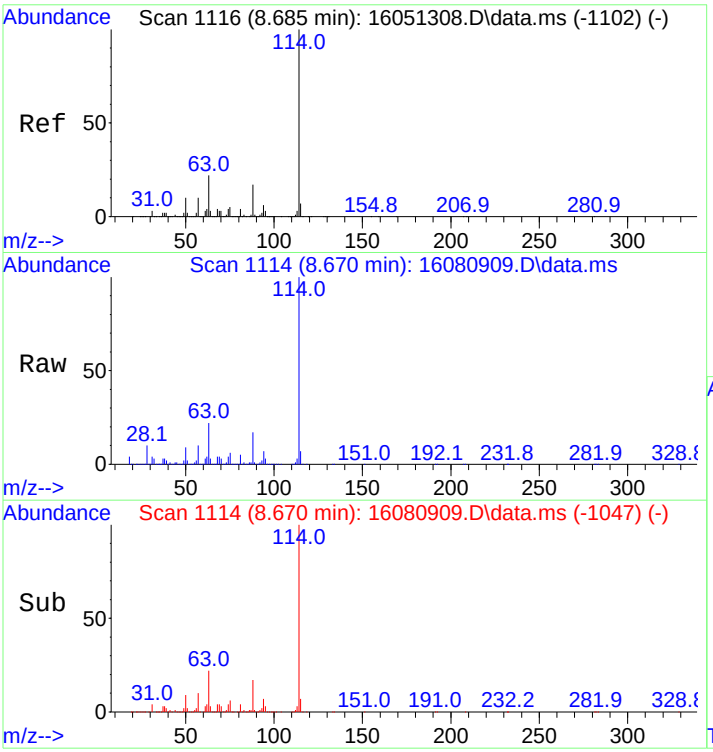


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.736 min Scan# 857
Delta R.T. 0.015 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion:130 Resp: 125982

Ion	Ratio	Lower	Upper
130	100		
128	78.3	63.0	94.4
132	25.0	19.9	29.9

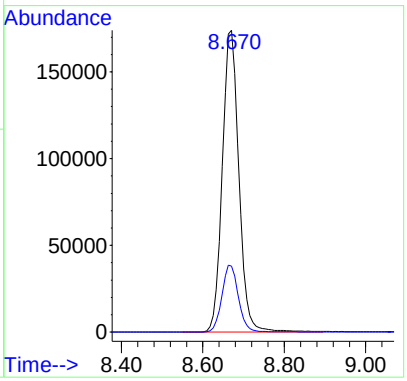


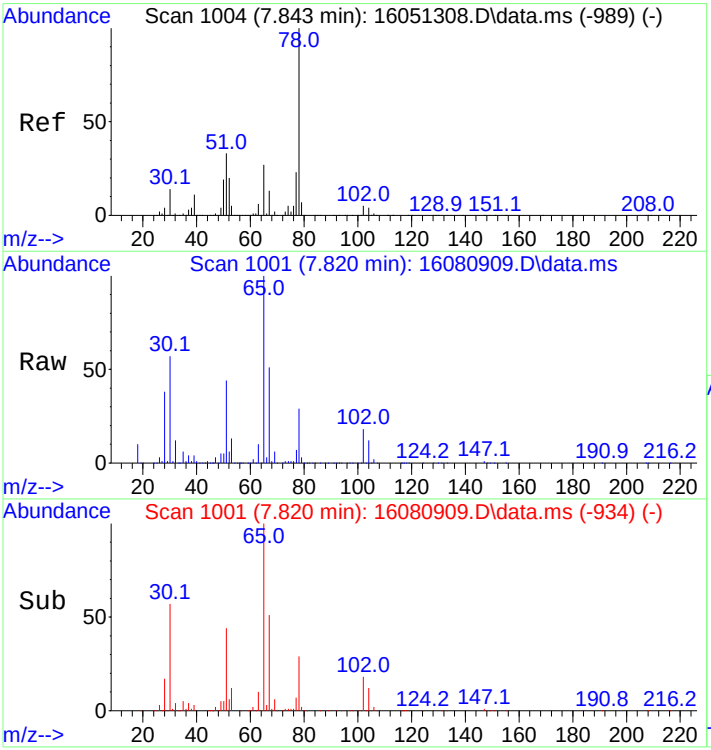


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.670 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion:114 Resp: 492074

Ion	Ratio	Lower	Upper
114	100		
63	22.2	17.8	26.8

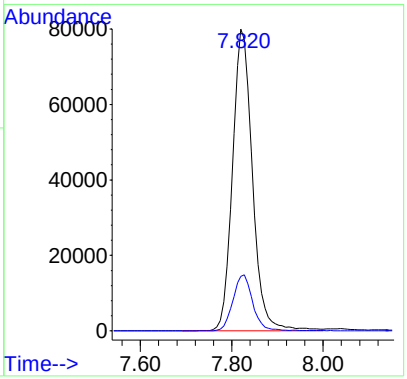


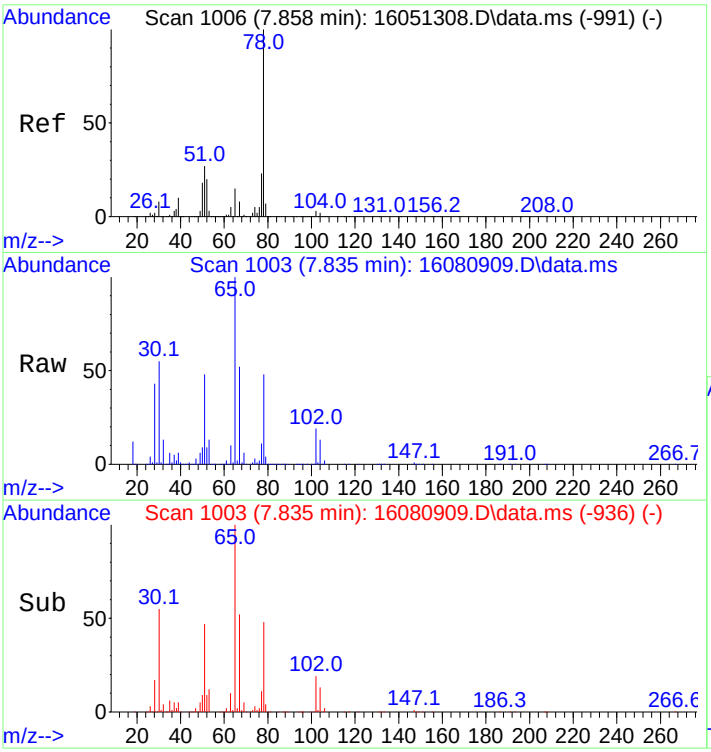


#21
d4-1,2-Dichloroethane(SURR)
Concen: 363.12 ng
RT: 7.820 min Scan# 1001
Delta R.T. 0.007 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 65 Resp: 242030

Ion	Ratio	Lower	Upper
65	100		
102	18.4	16.5	24.7

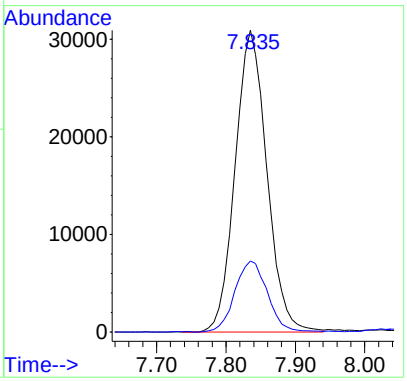


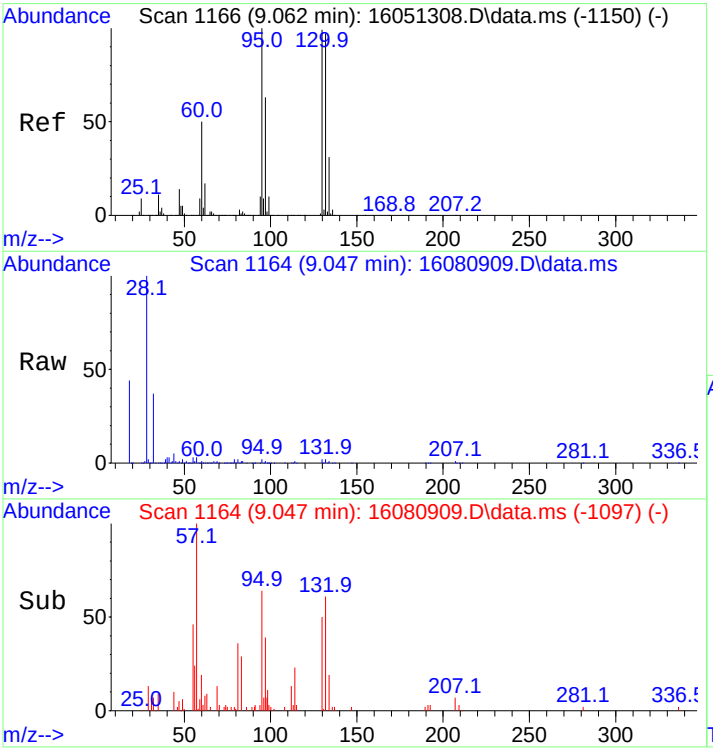


#23
Benzene
Concen: 27.57 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.007 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 78 Resp: 98230

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.3	27.5

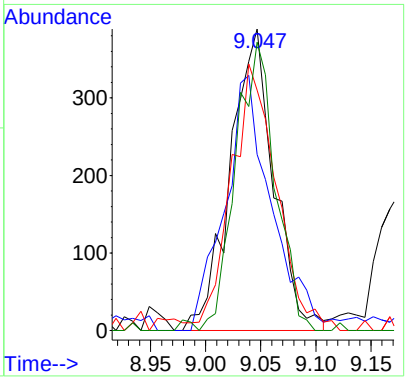


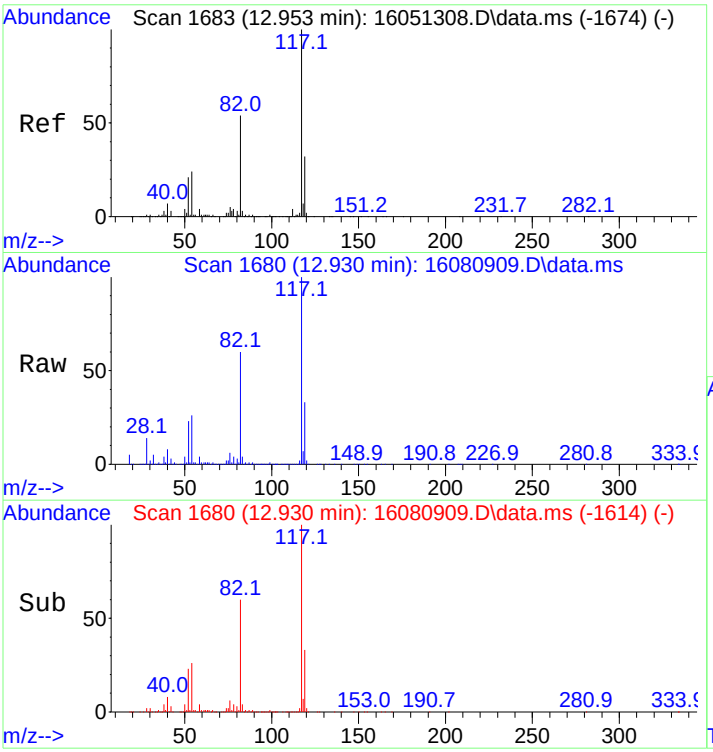


#25
Trichloroethene
Concen: 1.34 ng m
RT: 9.047 min Scan# 1164
Delta R.T. 0.007 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 95 Resp: 1071

Ion	Ratio	Lower	Upper
95	100		
97	90.1	51.8	77.8#
130	91.9	81.9	122.9
132	87.2	81.2	121.8

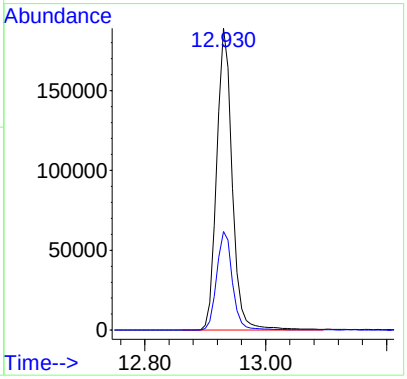


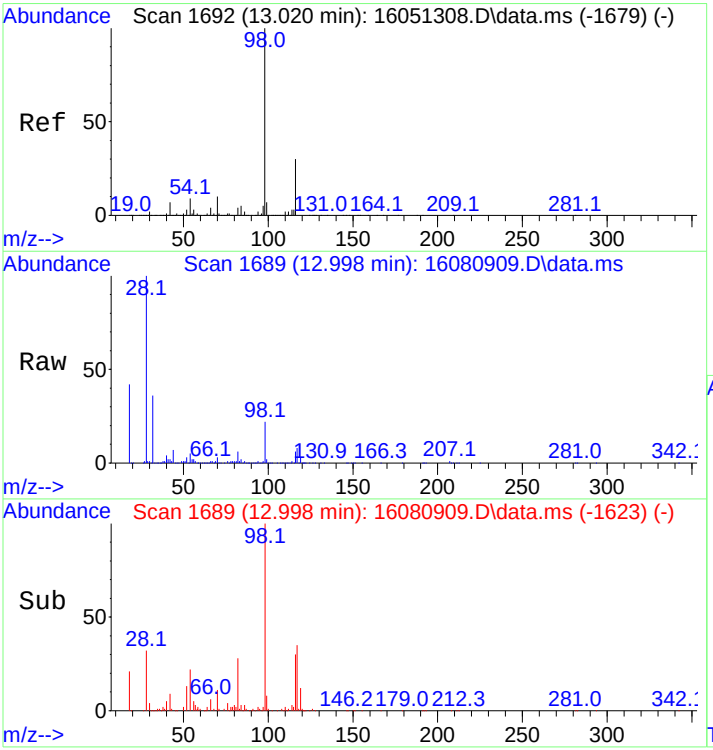


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. -0.000 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion:117 Resp: 335384

Ion	Ratio	Lower	Upper
117	100		
119	33.1	25.8	38.8

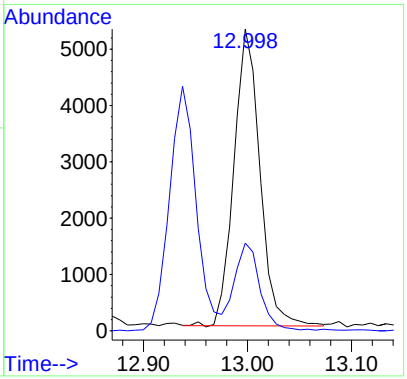


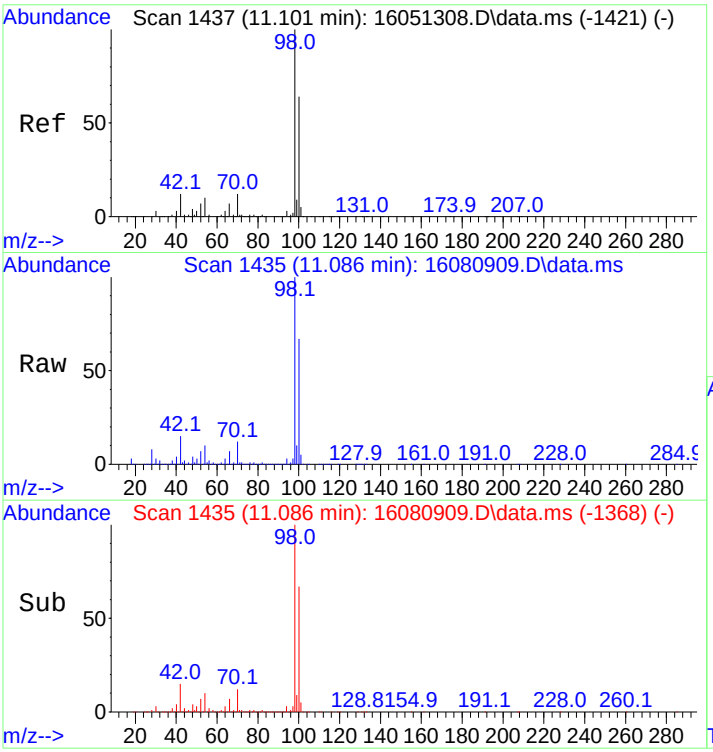


#48
d10-Ethylbenzene(SPK)
Concen: 3.97 ng
RT: 12.998 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 98 Resp: 9146

Ion	Ratio	Lower	Upper
98	100		
116	28.9	23.4	35.0

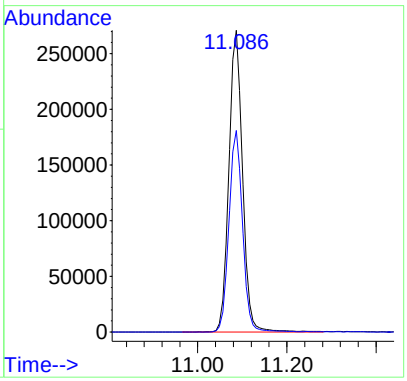


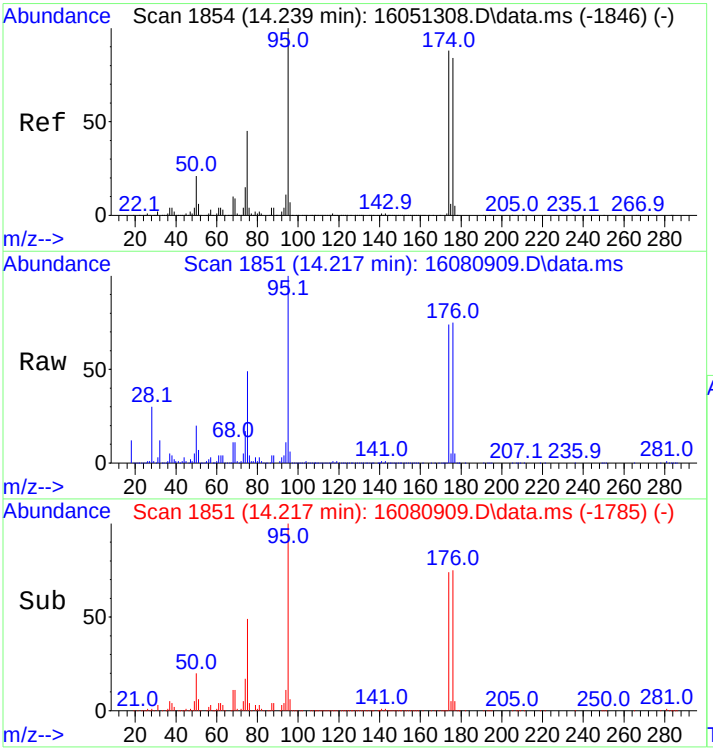


#49
d8-Toluene(SURR)
Concen: 290.02 ng
RT: 11.086 min Scan# 1435
Delta R.T. 0.007 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 98 Resp: 576239

Ion	Ratio	Lower	Upper
98	100		
100	66.5	56.0	84.0

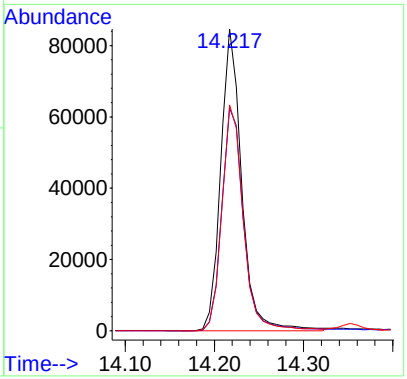


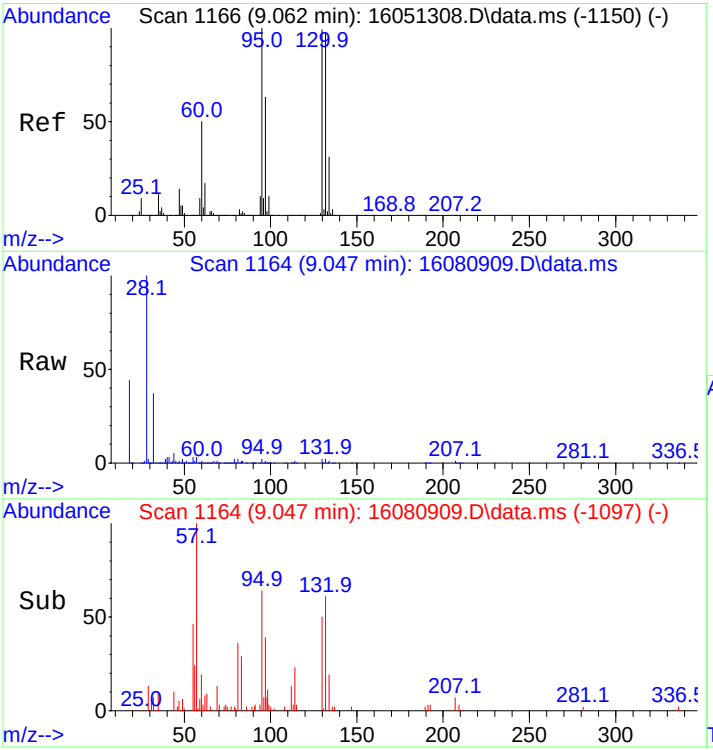


#50
4-Bromofluorobenzene(SURR)
Concen: 209.60 ng
RT: 14.217 min Scan# 1851
Delta R.T. -0.000 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 95 Resp: 138463

Ion	Ratio	Lower	Upper
95	100		
174	77.2	67.8	101.8
176	76.3	64.8	97.2

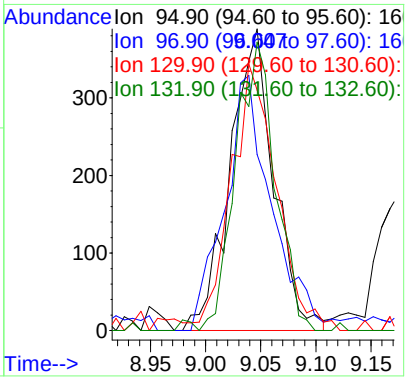




#25
Trichloroethene
Concen: 1.34 ng
RT: 9.047 min Scan# 1164
Delta R.T. 0.007 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 95 Resp: 1071

Ion	Ratio	Lower	Upper
95	100		
97	91.3	51.8	77.8#
130	91.9	81.9	122.9
132	87.2	81.2	121.8



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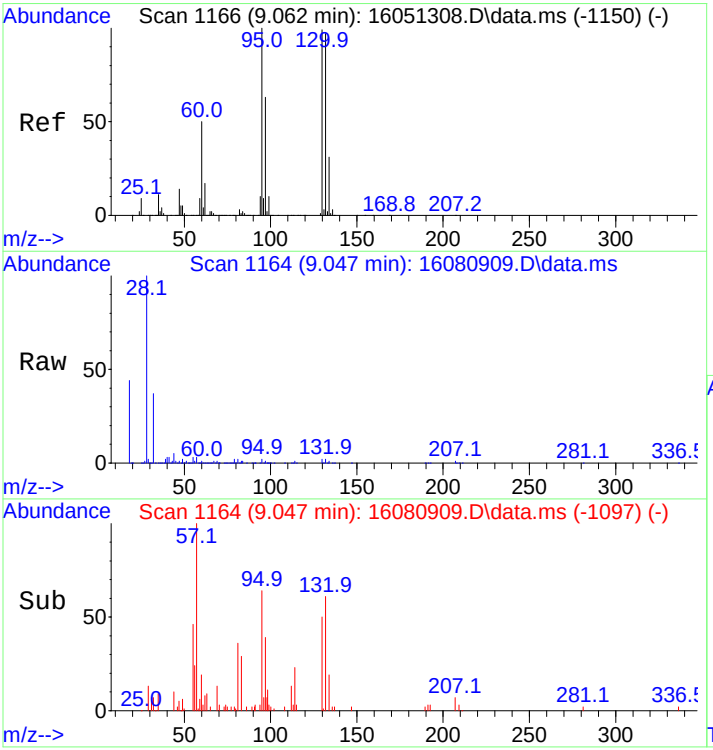
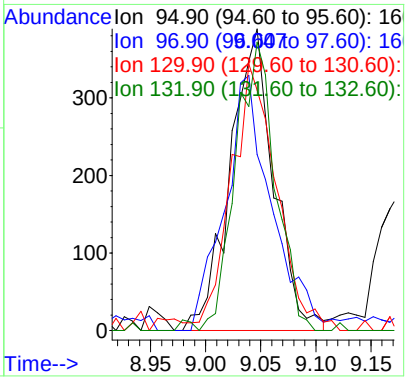
The chromatogram that follows includes peak integrations manually modified by the analyst



#25
Trichloroethene
Concen: 1.34 ng m
RT: 9.047 min Scan# 1164
Delta R.T. 0.007 min
Lab File: 16080909.D
Acq: 9 Aug 2016 3:24 pm

Tgt Ion: 95 Resp: 1071

Ion	Ratio	Lower	Upper
95	100		
97	90.1	51.8	77.8#
130	91.9	81.9	122.9
132	87.2	81.2	121.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080911.D
Acq On : 9 Aug 2016 4:15 pm
Operator : SG Instrument MSD-3
Sample : L1806542-4
Misc : Coder SG
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 15:14:27 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	6.744	130	140185	250.00 ng	0.02
20) 1,4-Difluorobenzene	8.670	114	548074	250.00 ng	0.00
32) d5-Chlorobenzene	12.930	117	415146	250.00 ng	0.00
System Monitoring Compounds					
21) d4-1,2-Dichloroethane(...	7.828	65	262779	353.97 ng	0.02
Spiked Amount 250.000			Recovery	= 141.59%	
48) d10-Ethylbenzene(SPK)	12.998	98	3172	1.11 ng	0.00
Spiked Amount 200.000			Recovery	= 0.56%	
49) d8-Toluene(SURR)	11.086	98	655717	266.62 ng	0.00
Spiked Amount 250.000			Recovery	= 106.65%	
50) 4-Bromofluorobenzene(S...	14.217	95	173755	212.49 ng	0.00
Spiked Amount 250.000			Recovery	= 85.00%	
Target Compounds					Qvalue
23) Benzene	7.843	78	170959	43.09 ng	99
25) Trichloroethene	9.047	95	1004m	1.13 ng	

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

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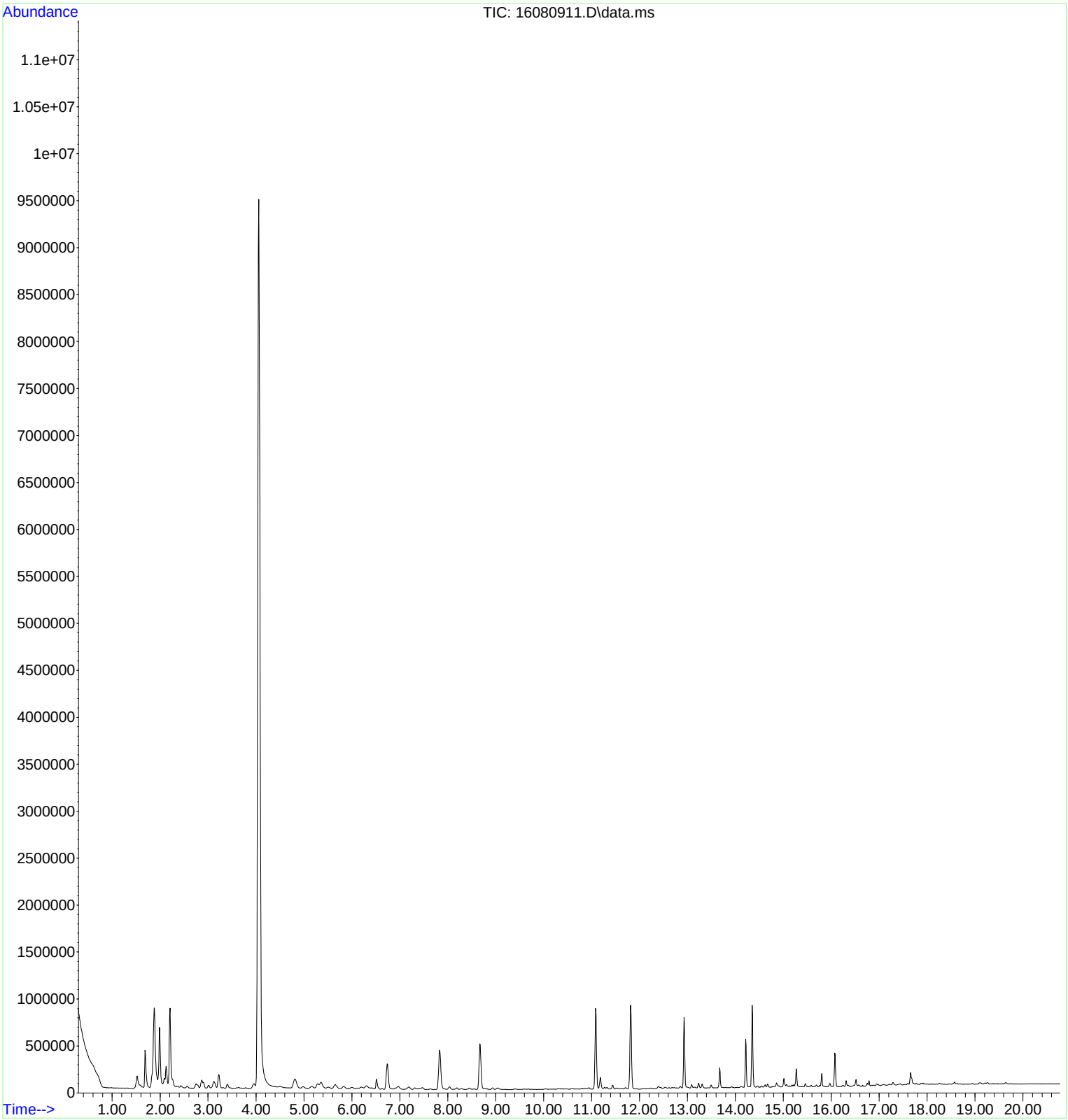
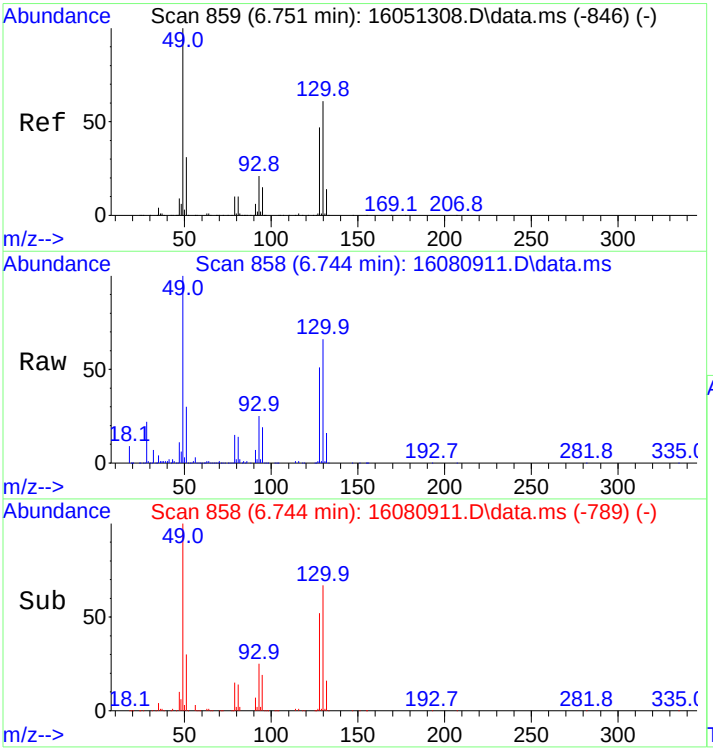
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080911.D
Acq On : 9 Aug 2016 4:15 pm
Operator : SG Instrument MSD-3
Sample : L1806542-4
Misc : Coder SG
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 15:14:27 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

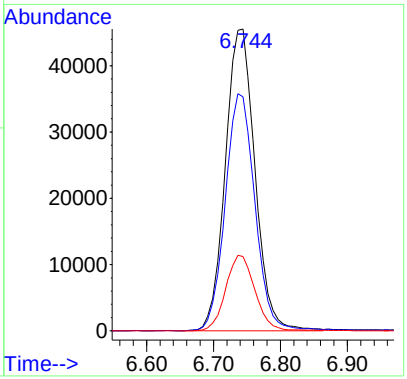


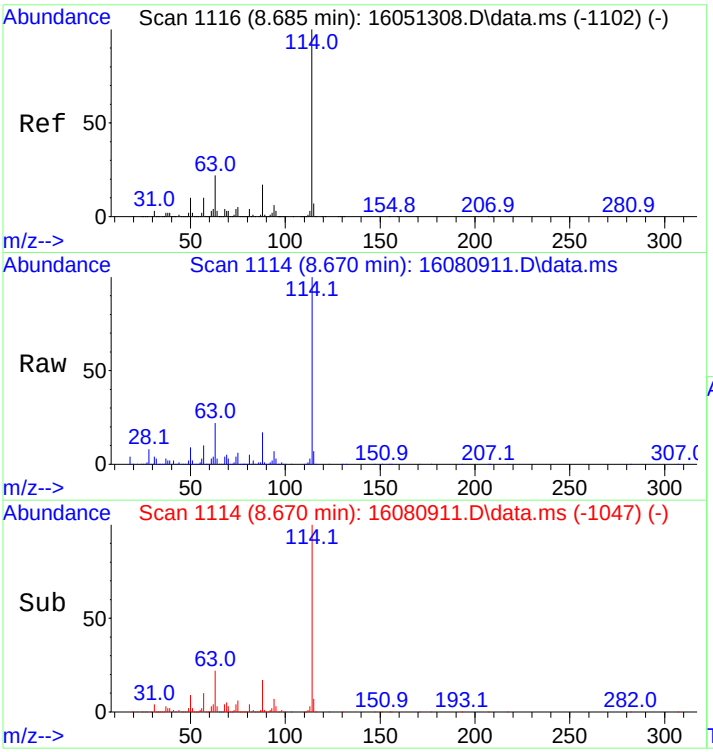


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.744 min Scan# 858
Delta R.T. 0.023 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion:130 Resp: 140185

Ion	Ratio	Lower	Upper
130	100		
128	79.0	63.0	94.4
132	24.8	19.9	29.9

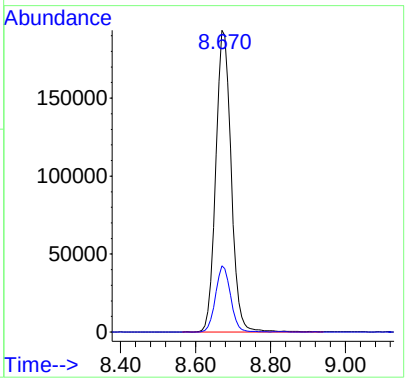


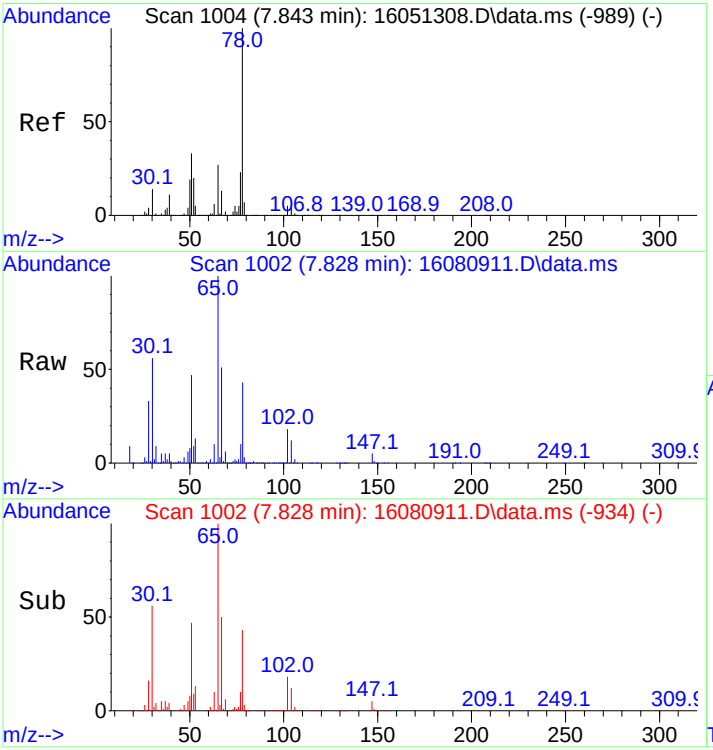


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.670 min Scan# 1114
Delta R.T. 0.008 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion:114 Resp: 548074

Ion	Ratio	Lower	Upper
114	100		
63	21.5	17.8	26.8

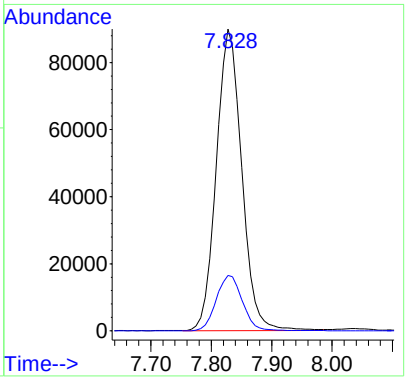


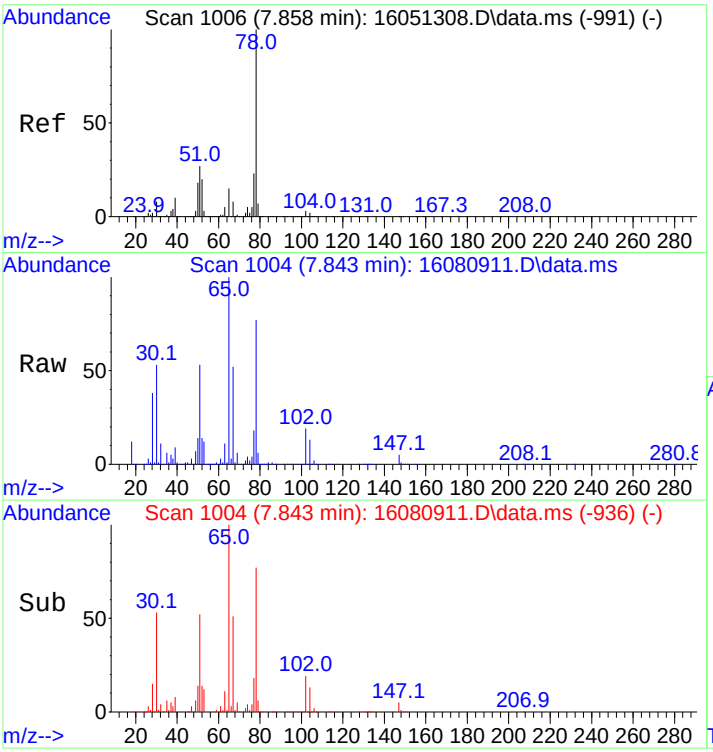


#21
d4-1,2-Dichloroethane(SURR)
Concen: 353.97 ng
RT: 7.828 min Scan# 1002
Delta R.T. 0.015 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion: 65 Resp: 262779

Ion	Ratio	Lower	Upper
65	100		
102	18.8	16.5	24.7

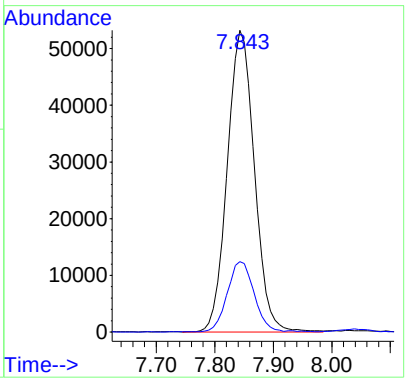


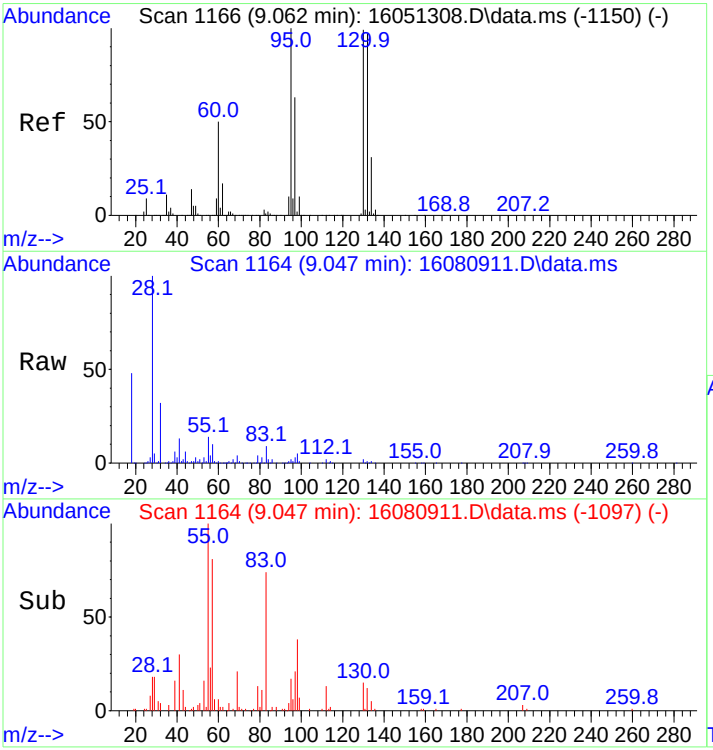


#23
Benzene
Concen: 43.09 ng
RT: 7.843 min Scan# 1004
Delta R.T. 0.015 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion: 78 Resp: 170959

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.3	27.5

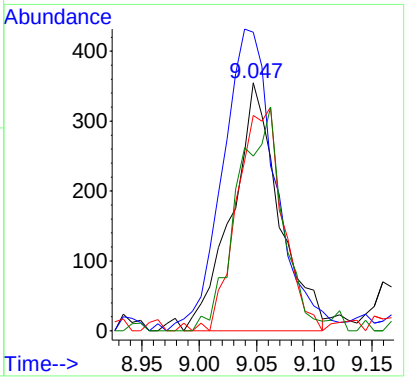


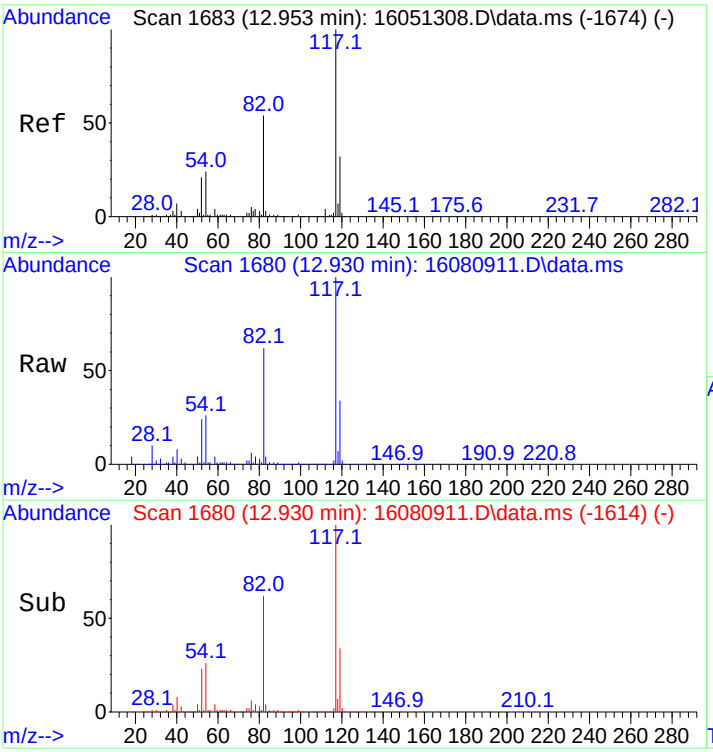


#25
Trichloroethene
Concen: 1.13 ng m
RT: 9.047 min Scan# 1164
Delta R.T. 0.008 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion: 95 Resp: 1004

Ion	Ratio	Lower	Upper
95	100		
97	133.3	51.8	77.8#
130	86.5	81.9	122.9
132	86.6	81.2	121.8

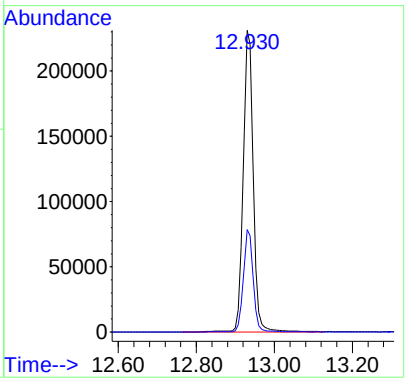


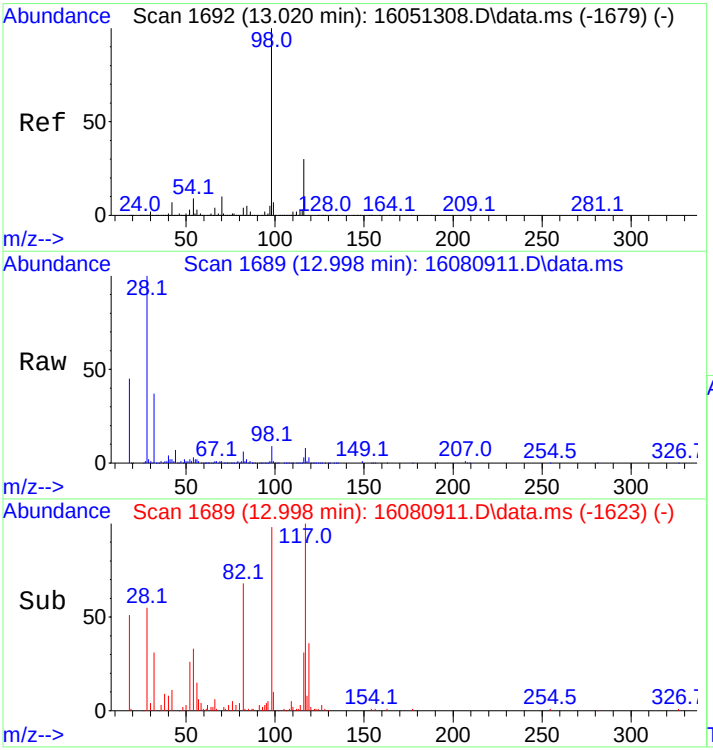


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. 0.000 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion:117 Resp: 415146

Ion	Ratio	Lower	Upper
117	100		
119	33.4	25.8	38.8

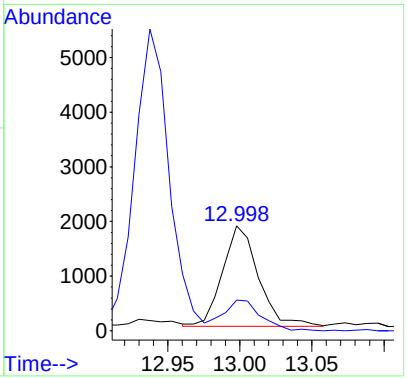


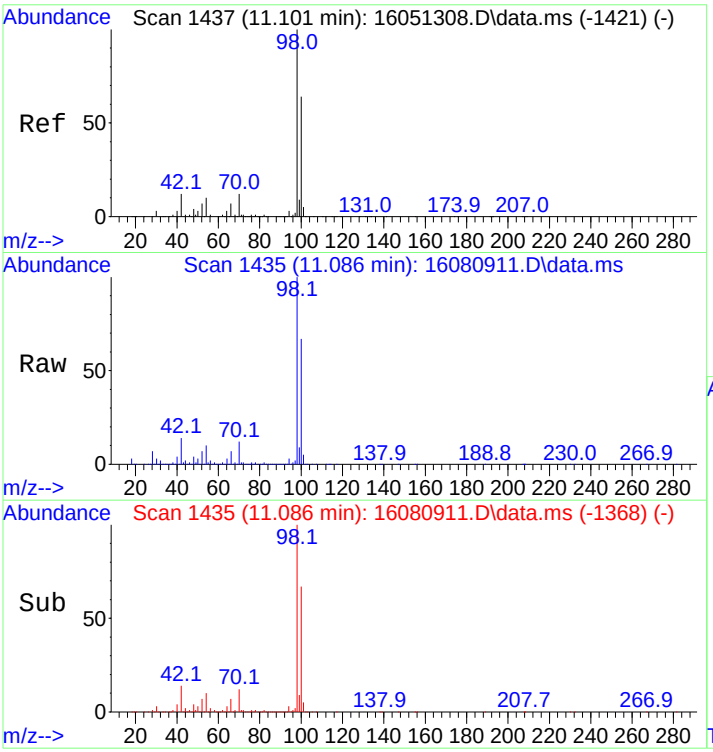


#48
d10-Ethylbenzene(SPK)
Concen: 1.11 ng
RT: 12.998 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion: 98 Resp: 3172

Ion	Ratio	Lower	Upper
98	100		
116	32.6	23.4	35.0

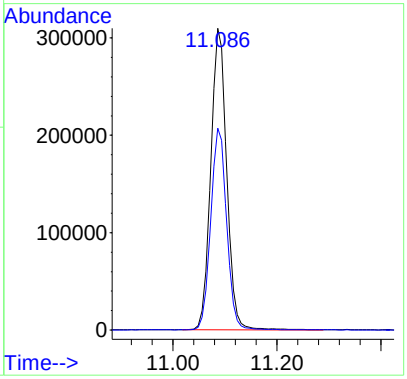


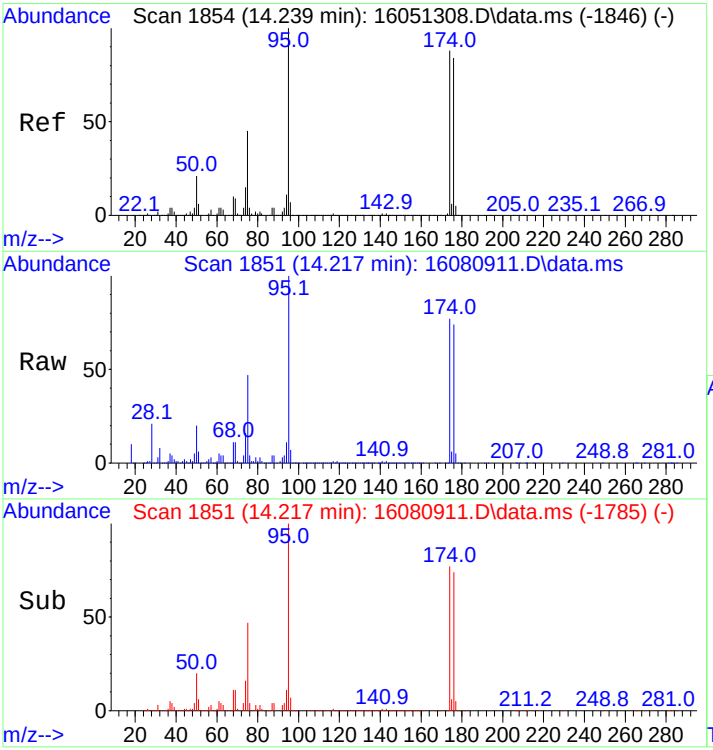


#49
d8-Toluene(SURR)
Concen: 266.62 ng
RT: 11.086 min Scan# 1435
Delta R.T. 0.008 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion: 98 Resp: 655717

Ion	Ratio	Lower	Upper
98	100		
100	66.9	56.0	84.0

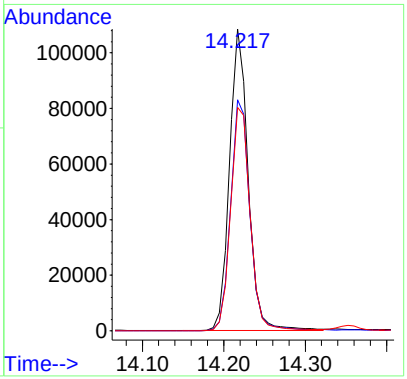




#50
4-Bromofluorobenzene(SURR)
Concen: 212.49 ng
RT: 14.217 min Scan# 1851
Delta R.T. 0.000 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion: 95 Resp: 173755

Ion	Ratio	Lower	Upper
95	100		
174	79.2	67.8	101.8
176	77.7	64.8	97.2



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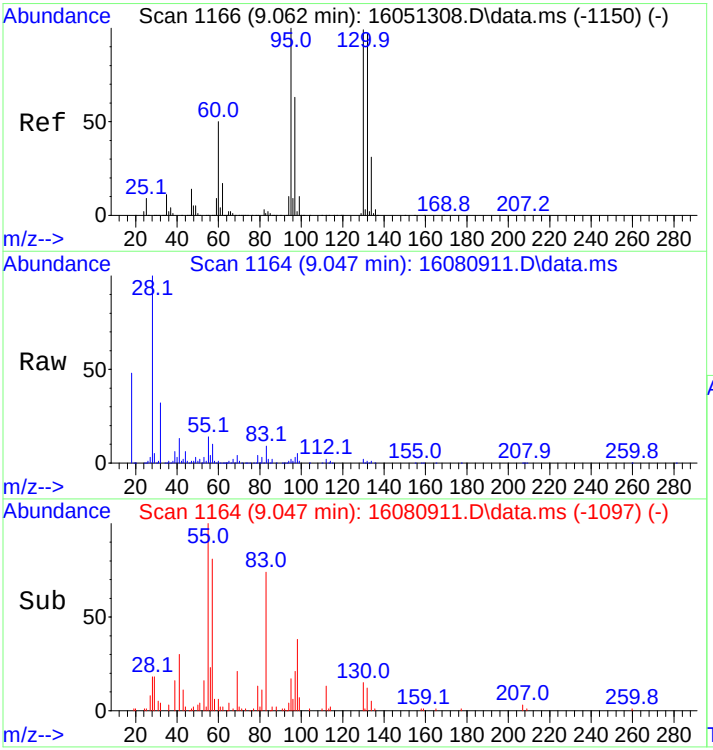
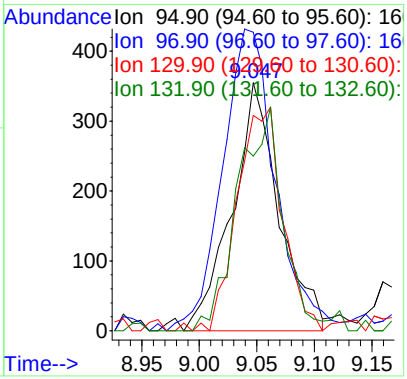
The chromatogram that follows includes peak integrations manually modified by the analyst



#25
Trichloroethene
Concen: 1.13 ng m
RT: 9.047 min Scan# 1164
Delta R.T. 0.008 min
Lab File: 16080911.D
Acq: 9 Aug 2016 4:15 pm

Tgt Ion: 95 Resp: 1004

Ion	Ratio	Lower	Upper
95	100		
97	133.3	51.8	77.8#
130	86.5	81.9	122.9
132	86.6	81.2	121.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080913.D
Acq On : 9 Aug 2016 5:20 pm
Operator : SG Instrument MSD-3
Sample : L1806542-8
Misc : Coder SG
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 15:17:15 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.736	130	137296	250.00	ng	0.02
20) 1,4-Difluorobenzene	8.670	114	546189	250.00	ng	0.00
32) d5-Chlorobenzene	12.930	117	370739	250.00	ng	0.00
System Monitoring Compounds						
21) d4-1,2-Dichloroethane(...	7.820	65	247834	334.99	ng	0.00
Spiked Amount 250.000			Recovery	=	134.00%	
48) d10-Ethylbenzene(SPK)	12.998	98	4297	1.69	ng	0.00
Spiked Amount 200.000			Recovery	=	0.84%	
49) d8-Toluene(SURR)	11.086	98	626055	285.05	ng	0.00
Spiked Amount 250.000			Recovery	=	114.02%	
50) 4-Bromofluorobenzene(S...	14.217	95	153526	210.24	ng	0.00
Spiked Amount 250.000			Recovery	=	84.10%	
Target Compounds						Qvalue
23) Benzene	7.835	78	112062	28.34	ng	99
25) Trichloroethene	0.000		0	N.D.	d	

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

VOST160513Q7PTrev(RT).M Fri Aug 19 11:56:48 2016

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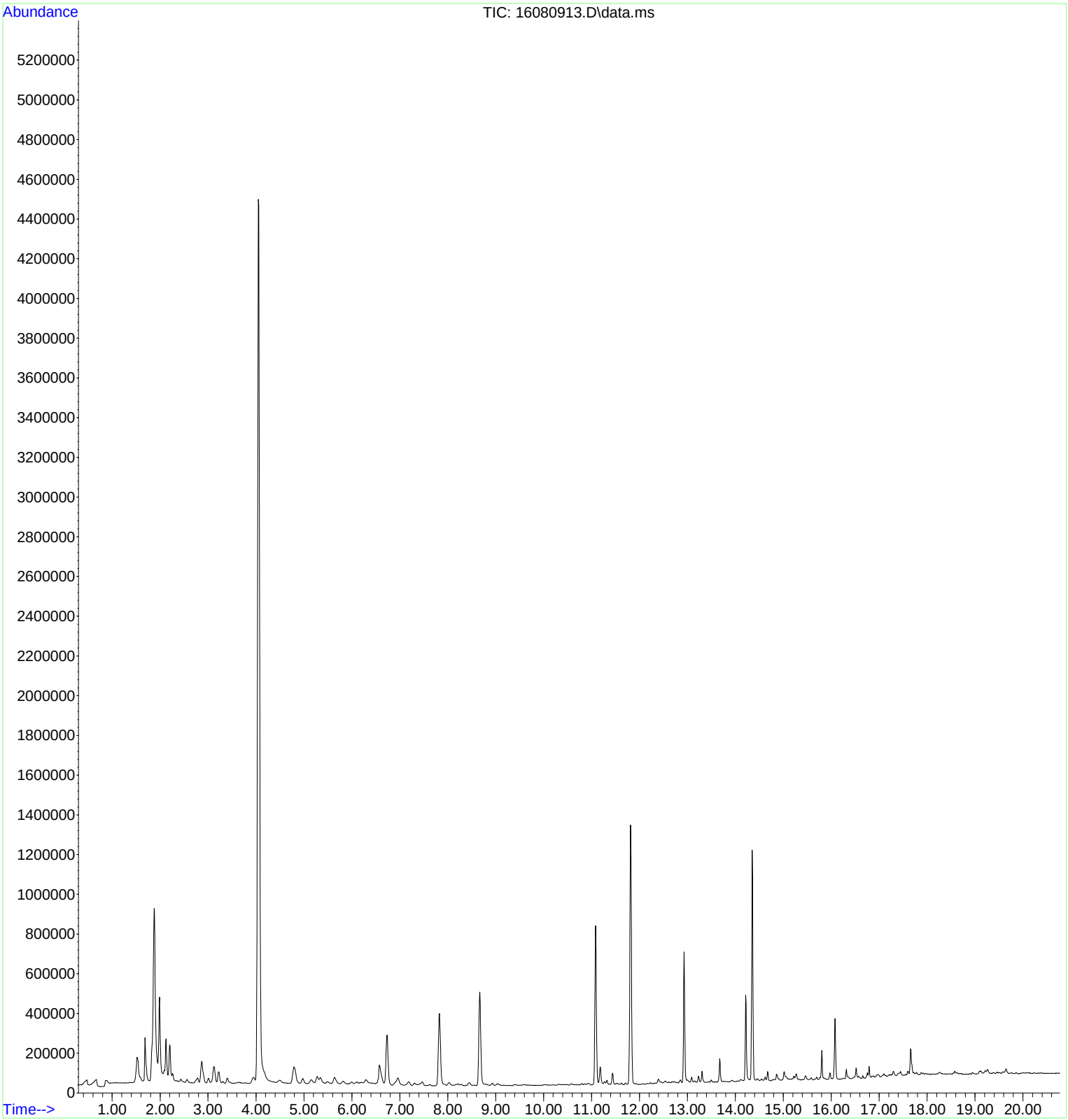
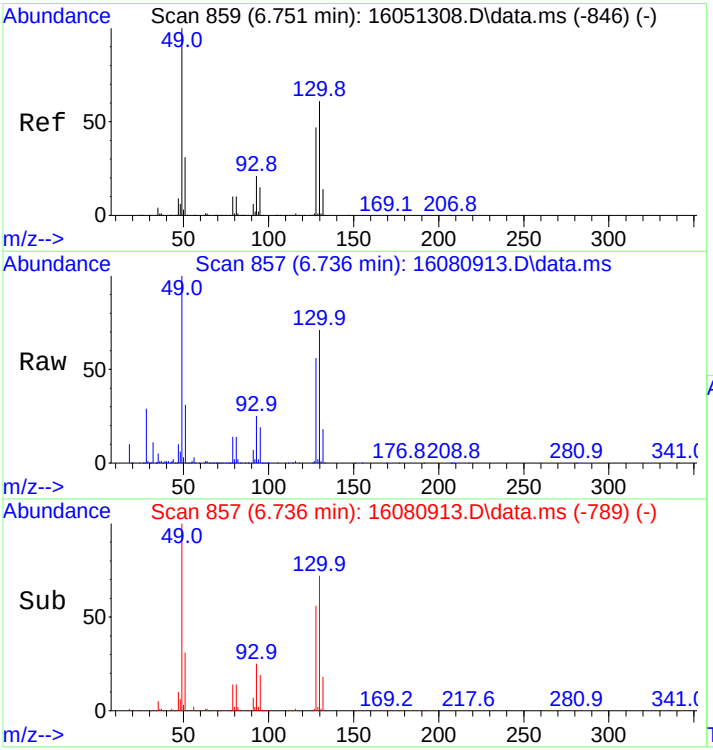
The chromatogram that follows includes the original peak integrations of the instrument software

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\1608 - Copy\160809copy\
Data File : 16080913.D
Acq On : 9 Aug 2016 5:20 pm
Operator : SG Instrument MSD-3
Sample : L1806542-8
Misc : Coder SG
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 15:17:15 2016
Quant Method : C:\msdchem\1\methods\QUANT\VOST160513Q7PTrev(RT).M
Quant Title : Volatiles VOST
QLast Update : Fri Aug 12 15:28:02 2016
Response via : Initial Calibration

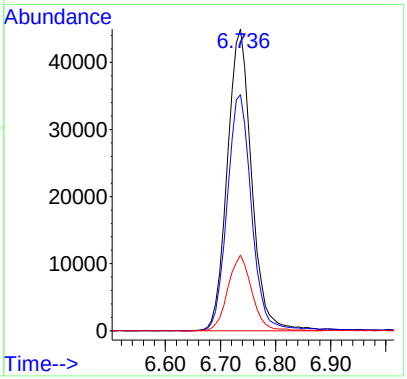


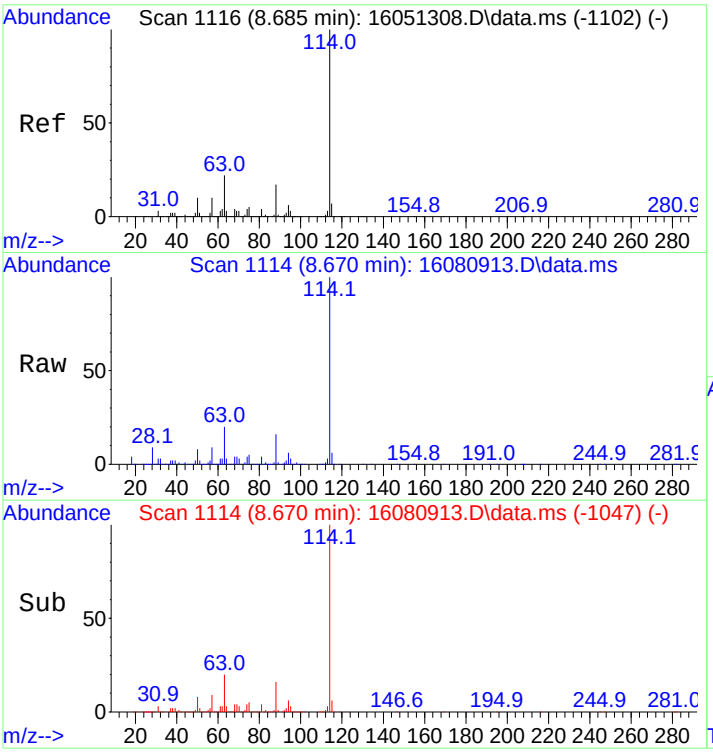


#1
Bromochloromethane
Concen: 250.00 ng
RT: 6.736 min Scan# 857
Delta R.T. 0.015 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion:130 Resp: 137296

Ion	Ratio	Lower	Upper
130	100		
128	78.5	63.0	94.4
132	24.8	19.9	29.9

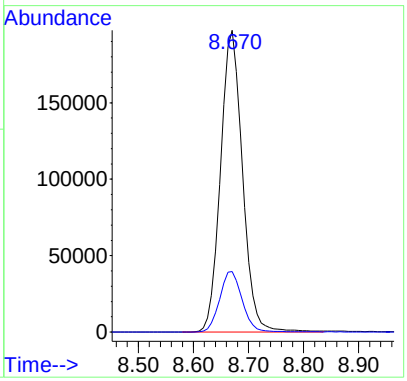


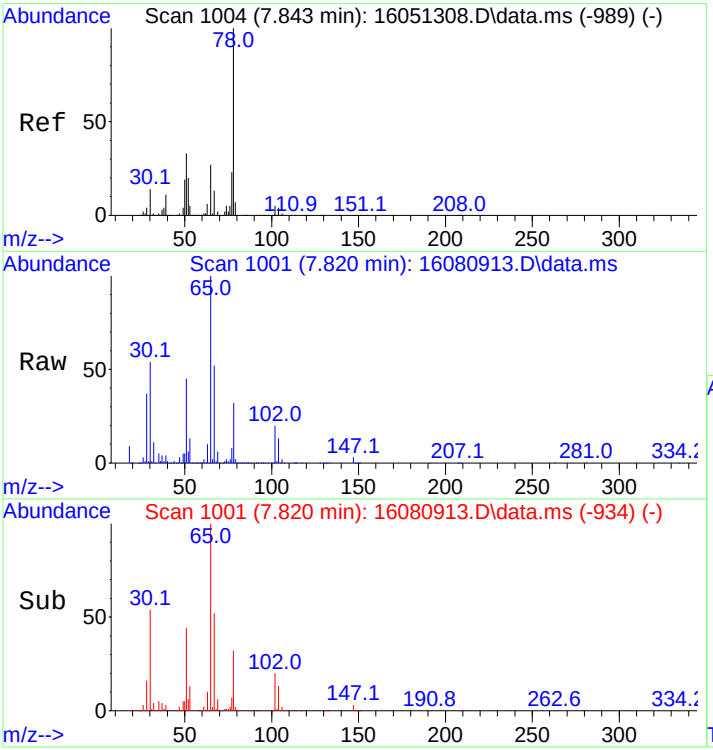


#20
1,4-Difluorobenzene
Concen: 250.00 ng
RT: 8.670 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion:114 Resp: 546189

Ion	Ratio	Lower	Upper
114	100		
63	20.7	17.8	26.8

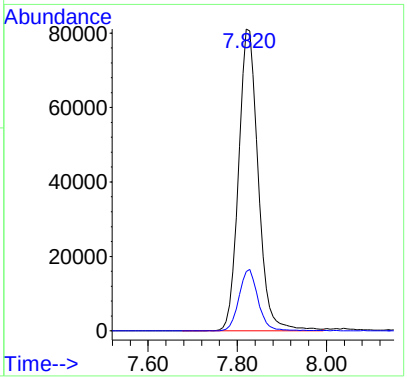


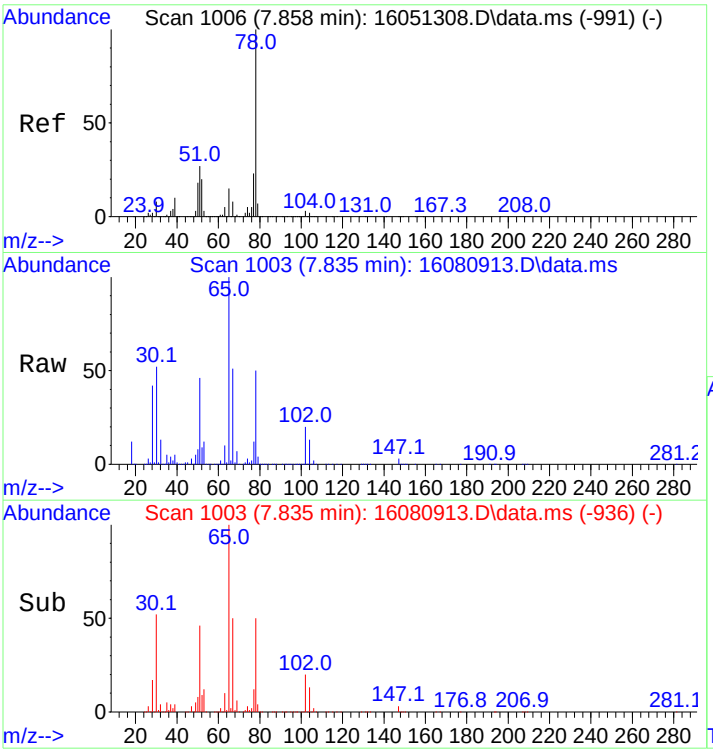


#21
d4-1,2-Dichloroethane(SURR)
Concen: 334.99 ng
RT: 7.820 min Scan# 1001
Delta R.T. 0.007 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion: 65 Resp: 247834

Ion	Ratio	Lower	Upper
65	100		
102	19.9	16.5	24.7

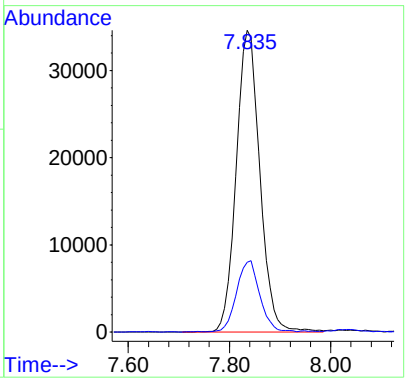


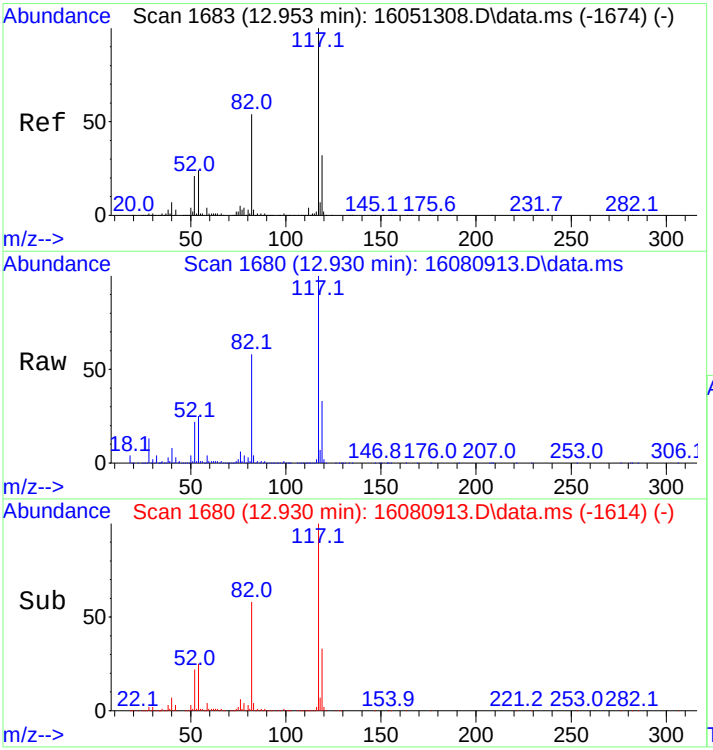


#23
Benzene
Concen: 28.34 ng
RT: 7.835 min Scan# 1003
Delta R.T. 0.008 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion: 78 Resp: 112062

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

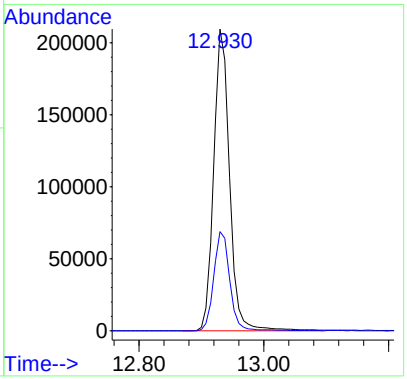


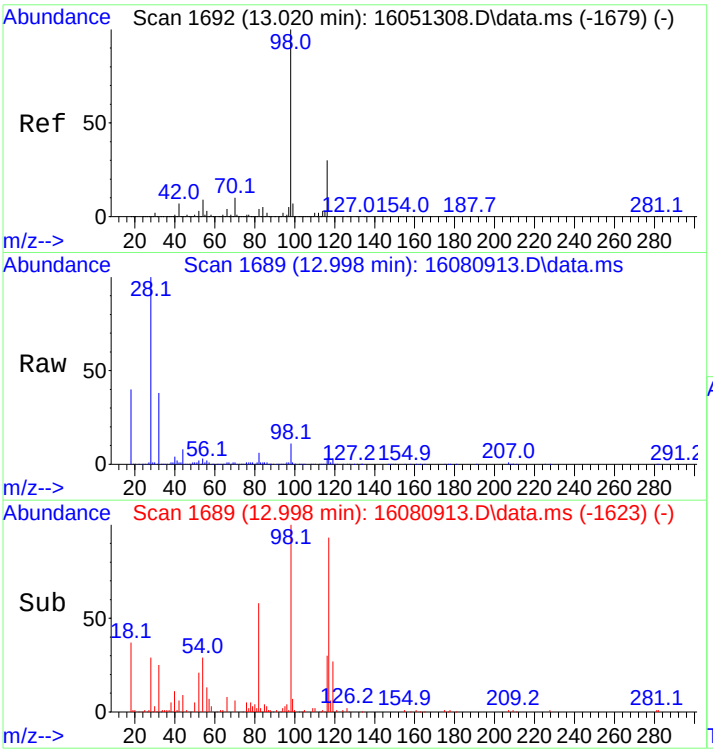


#32
d5-Chlorobenzene
Concen: 250.00 ng
RT: 12.930 min Scan# 1680
Delta R.T. -0.000 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion:117 Resp: 370739

Ion	Ratio	Lower	Upper
117	100		
119	33.3	25.8	38.8

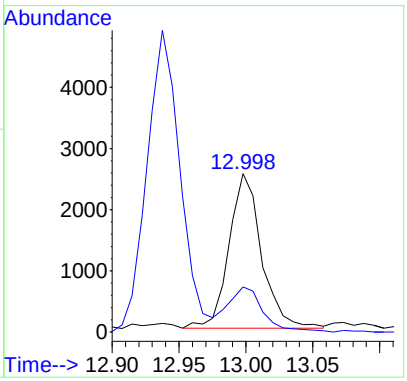


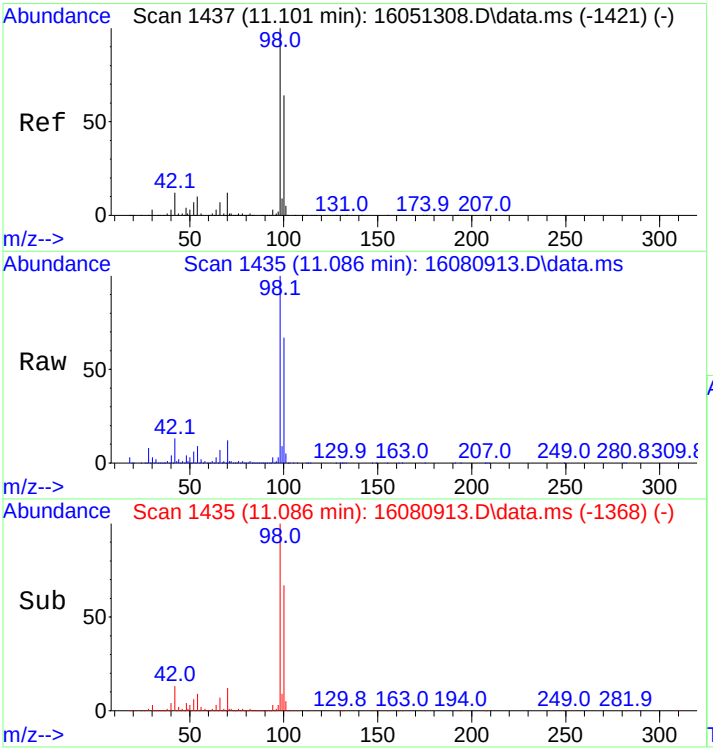


#48
d10-Ethylbenzene(SPK)
Concen: 1.69 ng
RT: 12.998 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion: 98 Resp: 4297

Ion	Ratio	Lower	Upper
98	100		
116	31.7	23.4	35.0

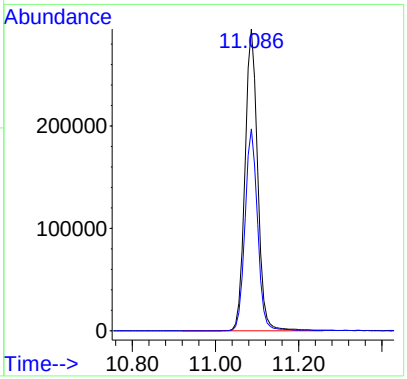


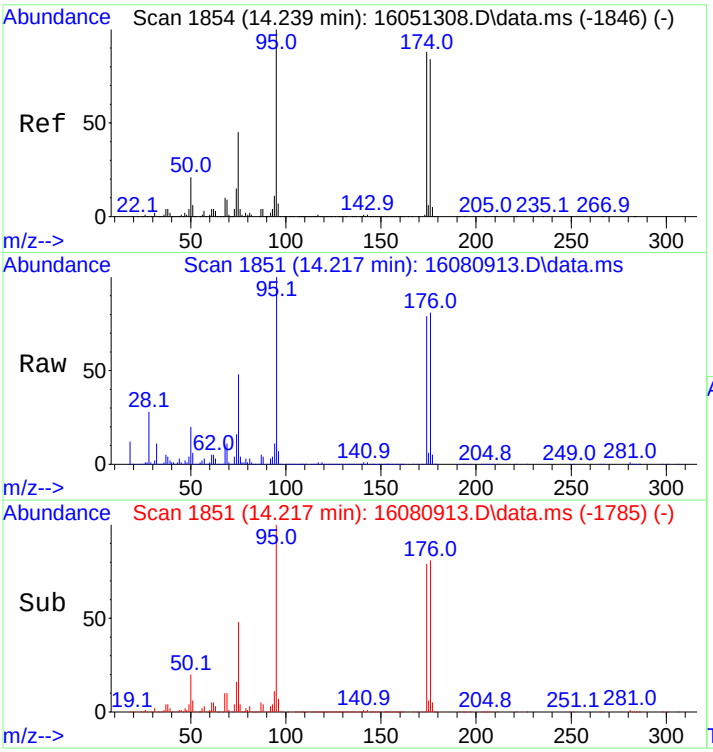


#49
d8-Toluene(SURR)
Concen: 285.05 ng
RT: 11.086 min Scan# 1435
Delta R.T. 0.007 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion: 98 Resp: 626055

Ion	Ratio	Lower	Upper
98	100		
100	66.3	56.0	84.0

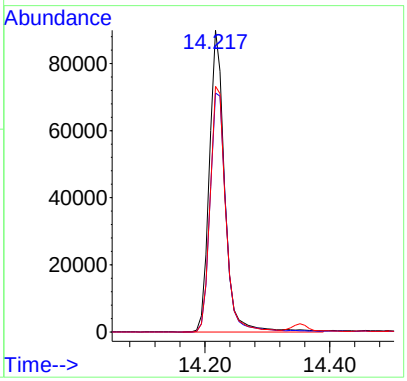


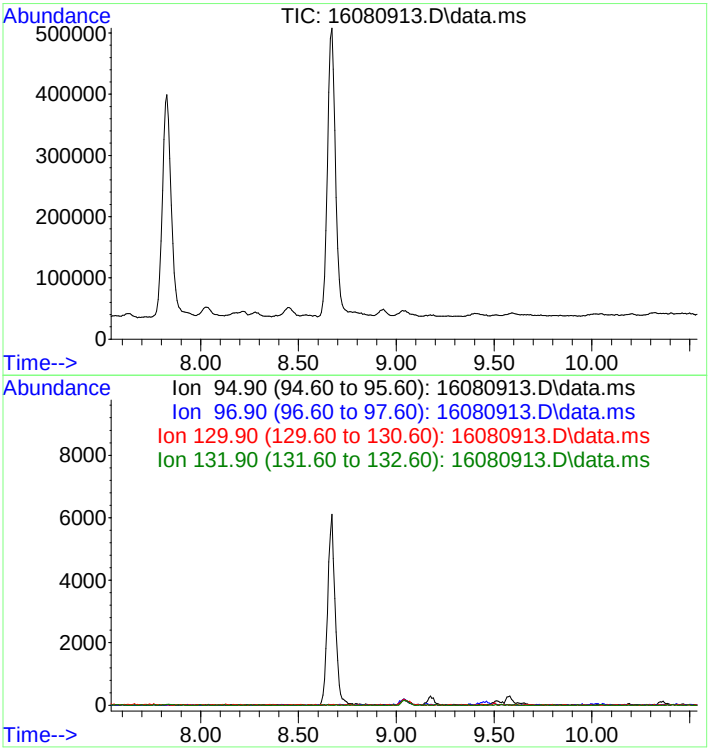


#50
4-Bromofluorobenzene(SURR)
Concen: 210.24 ng
RT: 14.217 min Scan# 1851
Delta R.T. -0.000 min
Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion: 95 Resp: 153526

Ion	Ratio	Lower	Upper
95	100		
174	82.1	67.8	101.8
176	82.8	64.8	97.2





#25
Trichloroethene
Concen: Below Cal
Expected RT: 9.04 min

Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5

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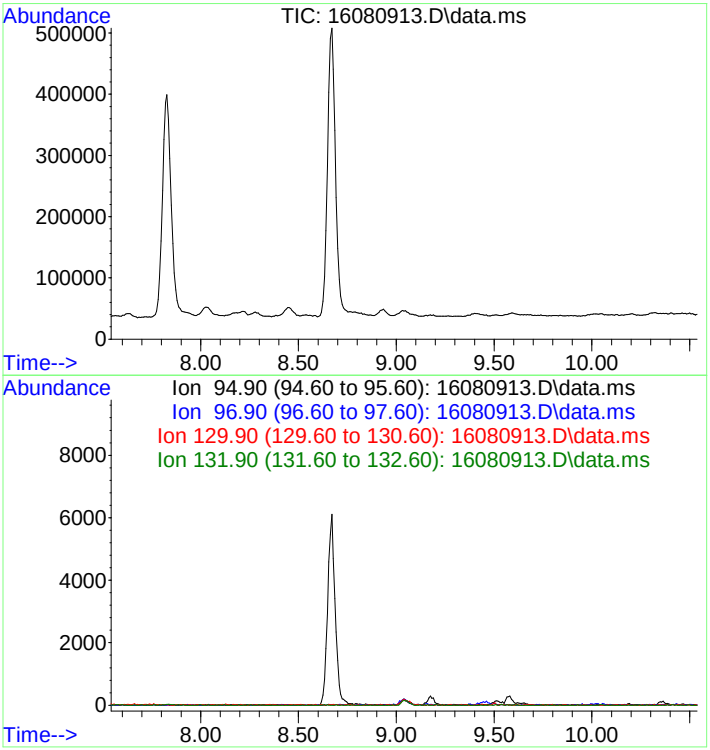
The chromatogram that follows includes peak integrations manually modified by the analyst



#25
Trichloroethene
Concen: N.D.
Expected RT: 9.04 min

Lab File: 16080913.D
Acq: 9 Aug 2016 5:20 pm

Tgt Ion: 95

Sig	Exp Ratio
95	100
97	64.8
130	102.4
132	101.5