

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL072715\
 Data File : VL025755.D
 Acq On : 27 Jul 2015 16:10
 Operator : SY/MD
 Sample : G3097-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 PR1DL

Quant Time: Jul 28 11:14:17 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	932211	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.33	114	2490808	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.75	117	3078879	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	2653479	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

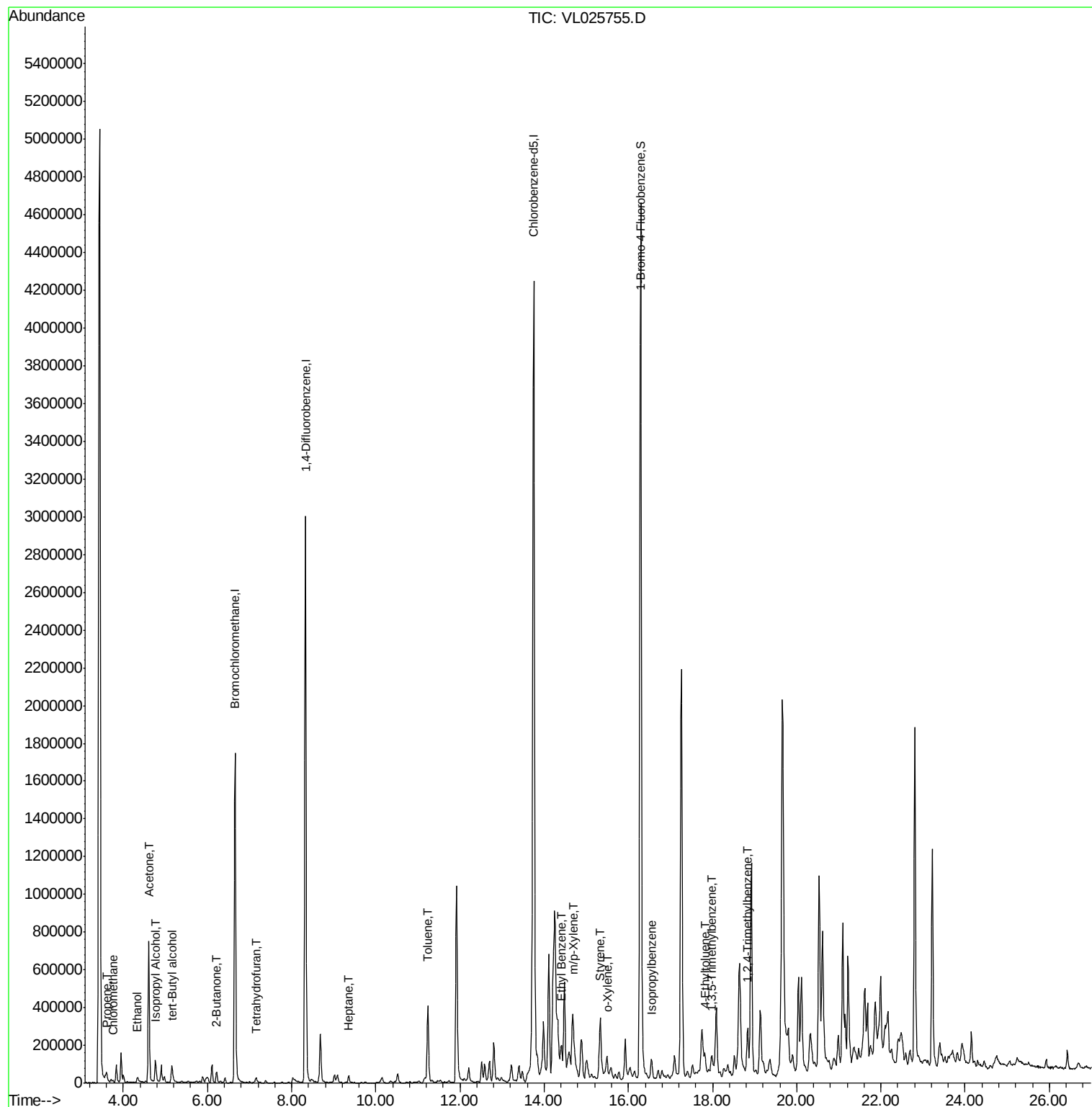
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.75	50	9119	0.15	ppbv	99
9) Propene	3.60	41	16073	0.37	ppbv	91
10) Heptane	9.35	43	18877	0.11	ppbv	98
13) Ethanol	4.34	45	29554	4.36	ppbv	99
15) Acetone	4.60	43	909634	5.52	ppbv #	87
17) tert-Butyl alcohol	5.17	59	64486	0.47	ppbv	95
19) Isopropyl Alcohol	4.78	45	50680	0.77	ppbv #	96
34) 2-Butanone	6.21	43	83060	0.59	ppbv	97
41) Tetrahydrofuran	7.17	42	18242	0.26	ppbv #	84
53) Toluene	11.24	91	355964	1.06	ppbv	99
58) Ethyl Benzene	14.41	91	91831	0.18	ppbv	96
59) m/p-Xylene	14.69	91	264342	0.59	ppbv	100
60) o-Xylene	15.49	91	99883	0.21	ppbv	97
61) Styrene	15.32	104	85219	0.51	ppbv	98
62) Isopropylbenzene	16.55	105	87491	0.14	ppbv	100
72) 4-Ethyltoluene	17.82	105	85865	0.16	ppbv	97
73) 1,3,5-Trimethylbenzene	17.99	105	64505	0.12	ppbv	88
74) 1,2,4-Trimethylbenzene	18.83	105	190495	0.33	ppbv #	66

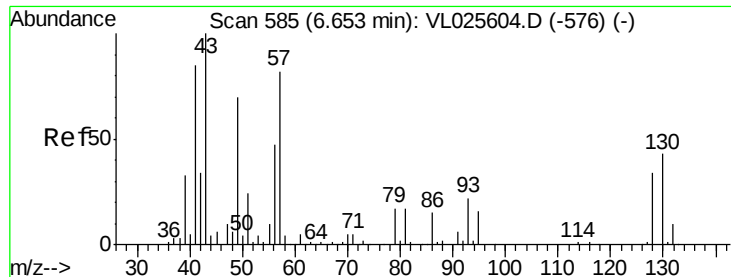
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration

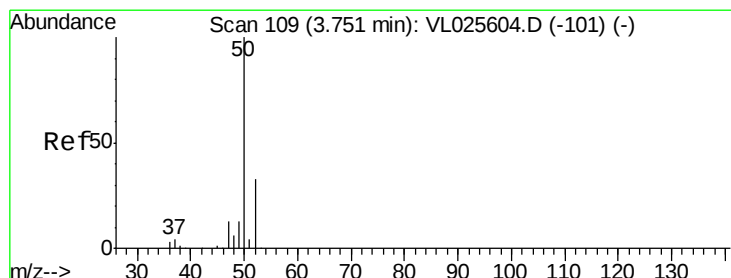
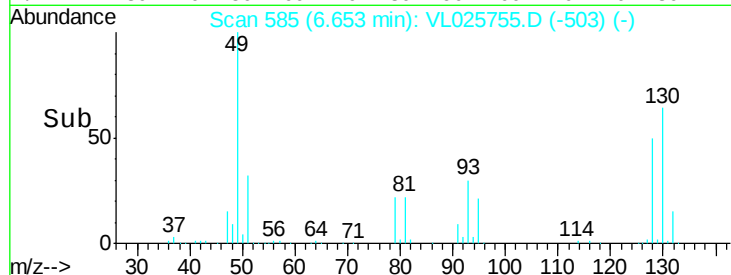
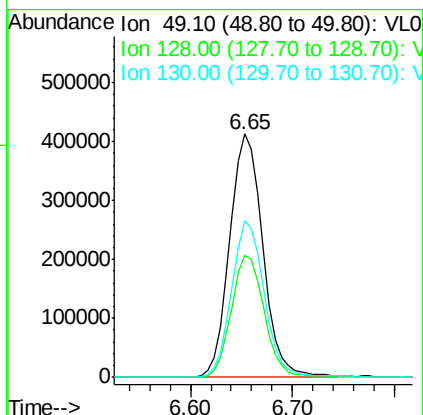
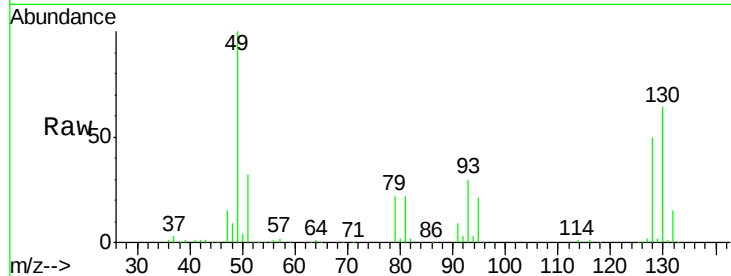




#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.65 min Scan# 585
Delta R.T. -0.00 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

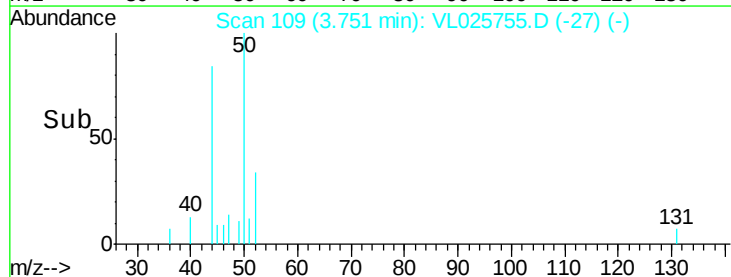
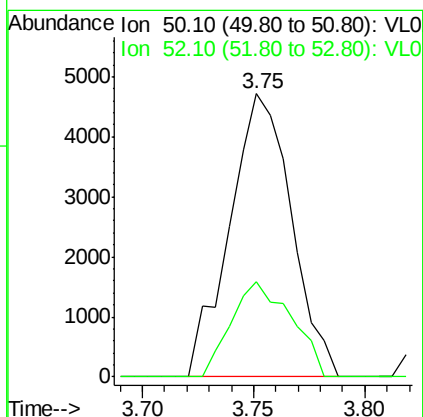
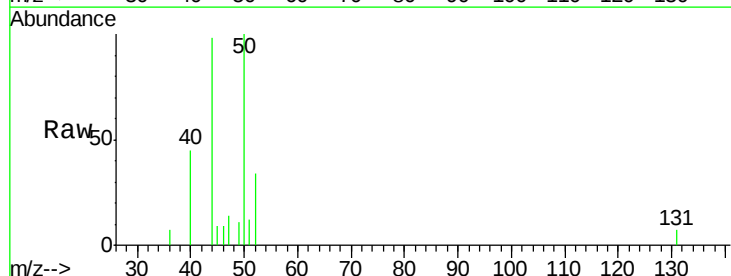
Instrument :
MSVOA_L
ClientSampleId :
PR1DL

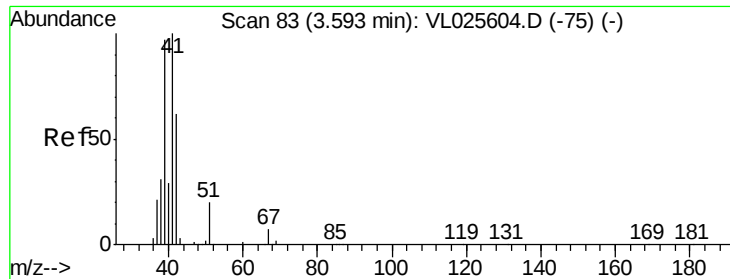
Tgt Ion: 49 Resp: 932211
Ion Ratio Lower Upper
49 100
128 50.3 25.4 76.0
130 64.1 31.9 95.9



#4
Chloromethane
Concen: 0.15 ppbv
RT: 3.75 min Scan# 109
Delta R.T. -0.00 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

Tgt Ion: 50 Resp: 9119
Ion Ratio Lower Upper
50 100
52 33.5 26.2 39.2





#9

Propene

Concen: 0.37 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025755.D

Acq: 27 Jul 2015 16:10

Instrument :

MSVOA_L

ClientSampleId :

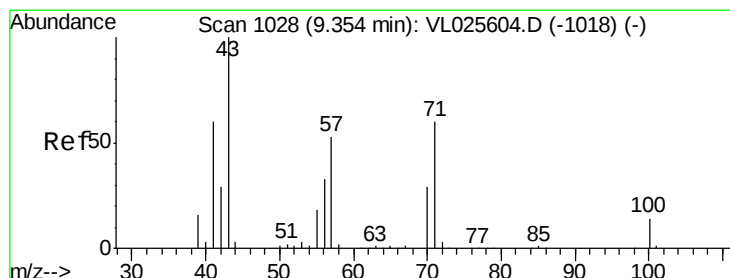
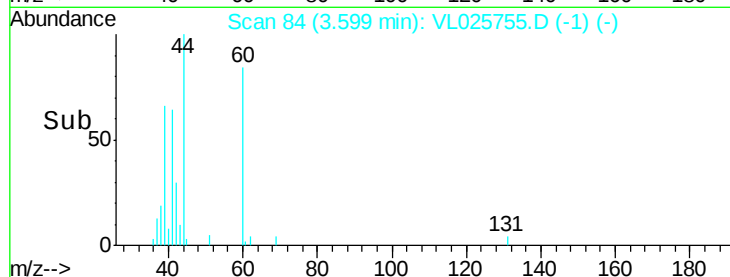
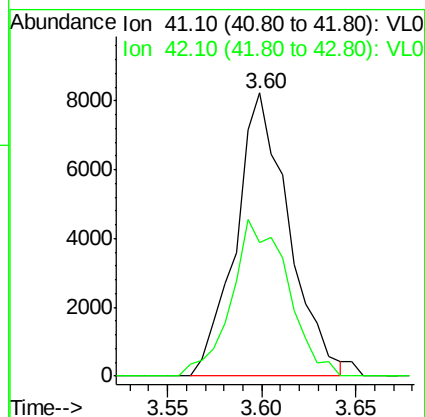
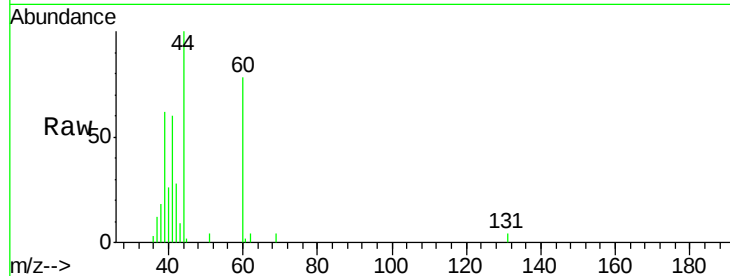
PR1DL

Tgt Ion: 41 Resp: 16073

Ion Ratio Lower Upper

41 100

42 58.3 52.4 78.6



#10

Heptane

Concen: 0.11 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. -0.00 min

Lab File: VL025755.D

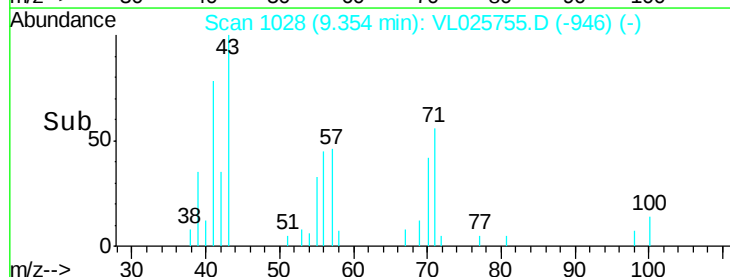
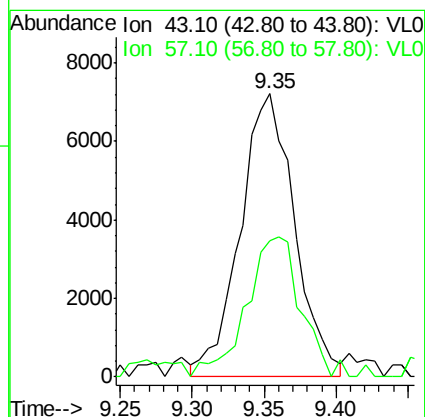
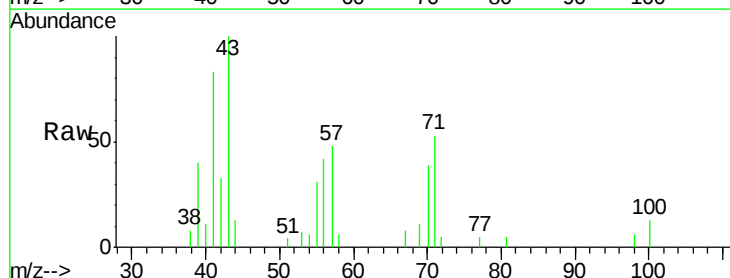
Acq: 27 Jul 2015 16:10

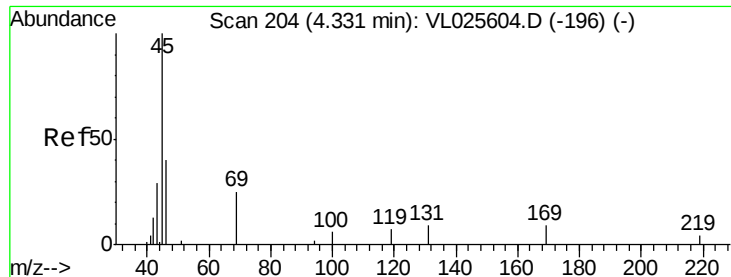
Tgt Ion: 43 Resp: 18877

Ion Ratio Lower Upper

43 100

57 54.9 42.6 64.0





#13

Ethanol

Concen: 4.36 ppbv

RT: 4.34 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL025755.D

Acq: 27 Jul 2015 16:10

Instrument :

MSVOA_L

ClientSampleId :

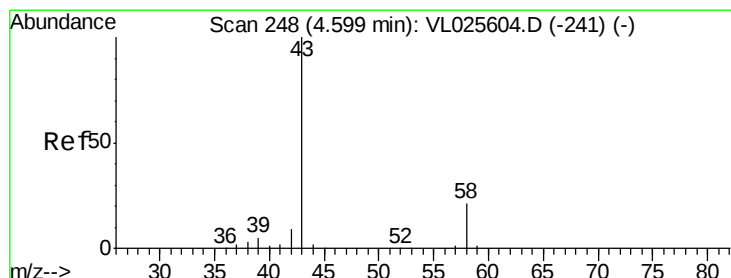
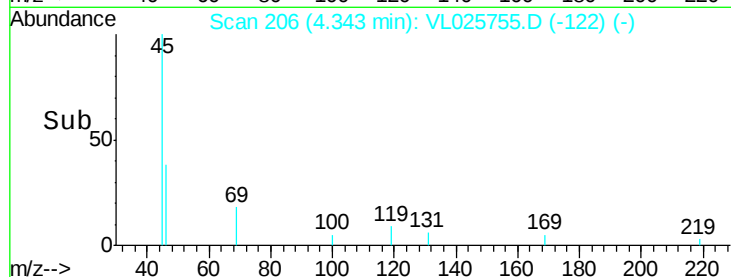
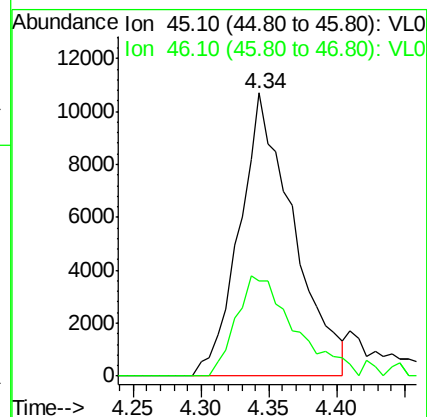
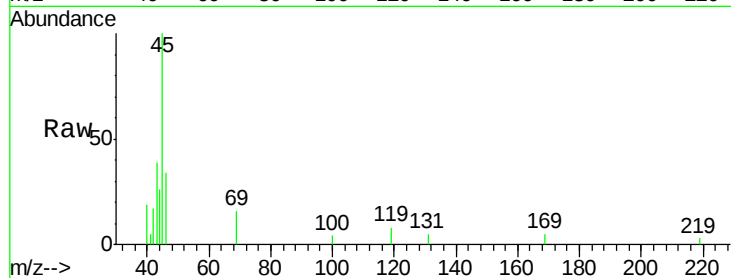
PR1DL

Tgt Ion: 45 Resp: 29554

Ion Ratio Lower Upper

45 100

46 39.5 16.0 64.0



#15

Acetone

Concen: 5.52 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL025755.D

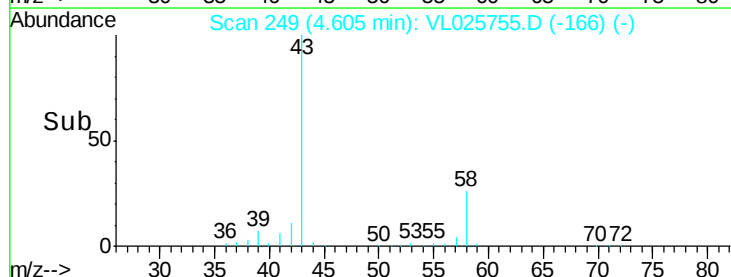
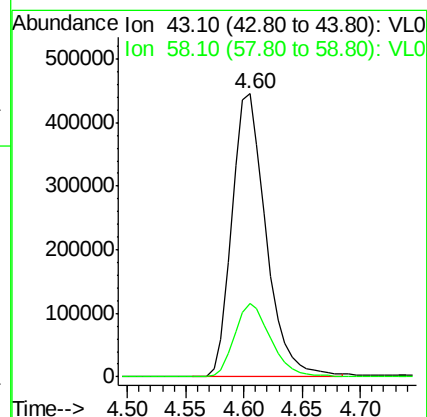
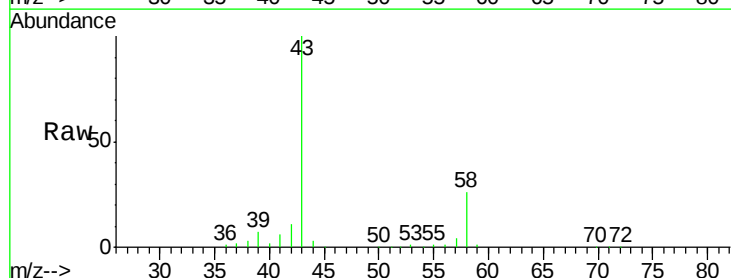
Acq: 27 Jul 2015 16:10

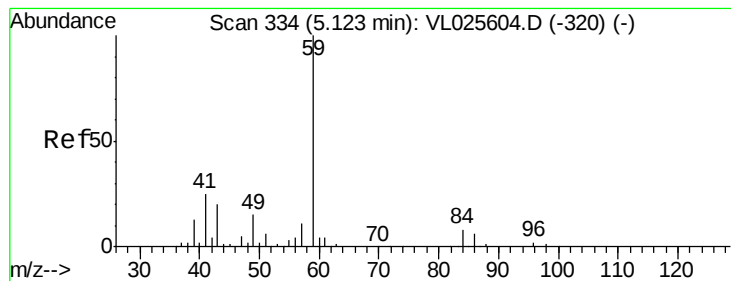
Tgt Ion: 43 Resp: 909634

Ion Ratio Lower Upper

43 100

58 27.7 17.2 25.8#



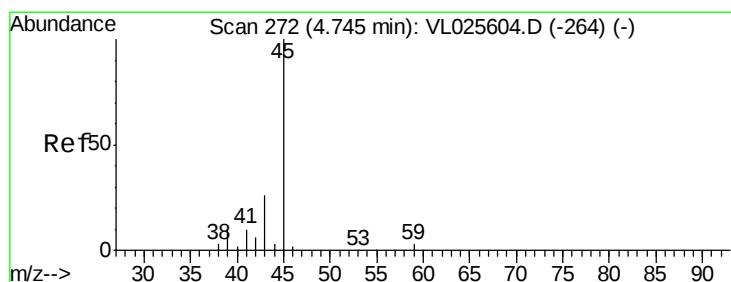
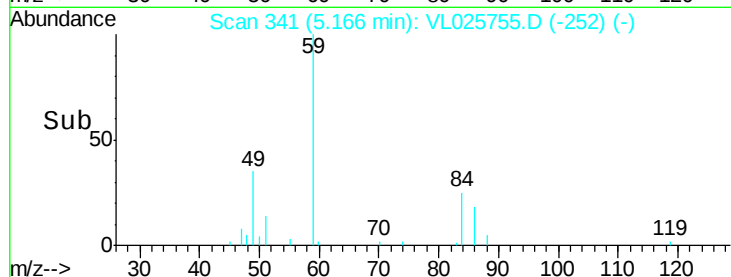
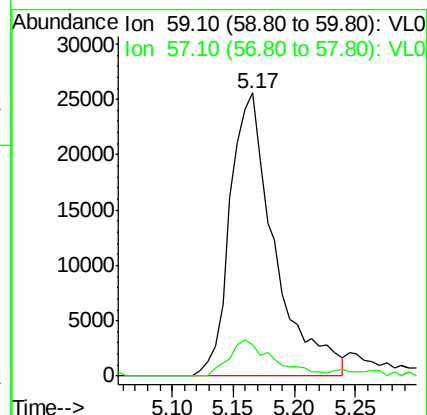
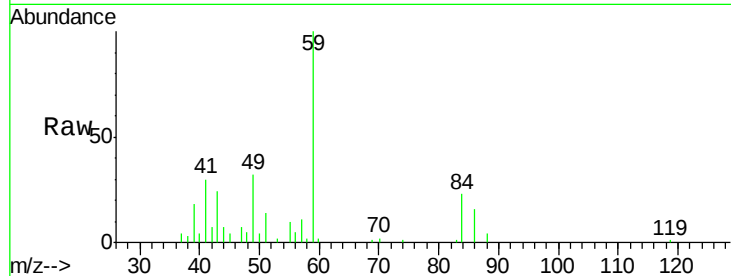


#17

tert-Butyl alcohol
Concen: 0.47 ppbv
RT: 5.17 min Scan# 341
Delta R.T. 0.04 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

Instrument :
MSVOA_L
ClientSampleId :
PR1DL

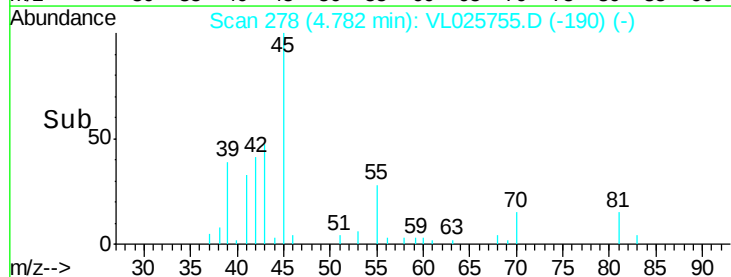
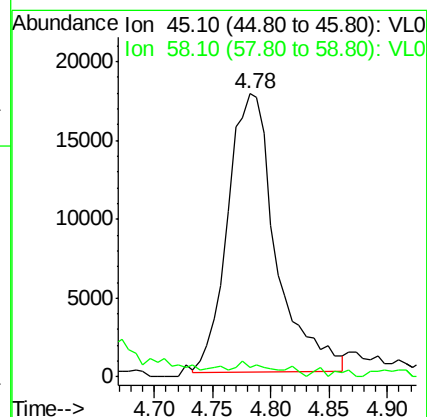
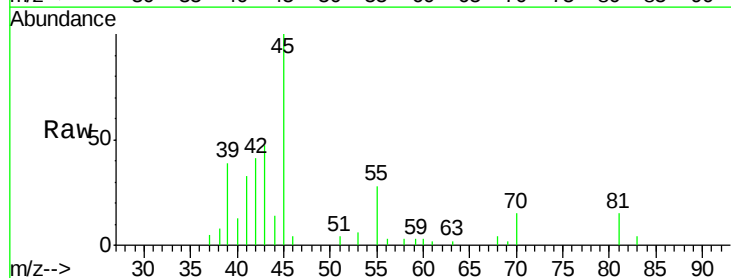
Tgt Ion: 59 Resp: 64486
Ion Ratio Lower Upper
59 100
57 13.8 9.4 14.2

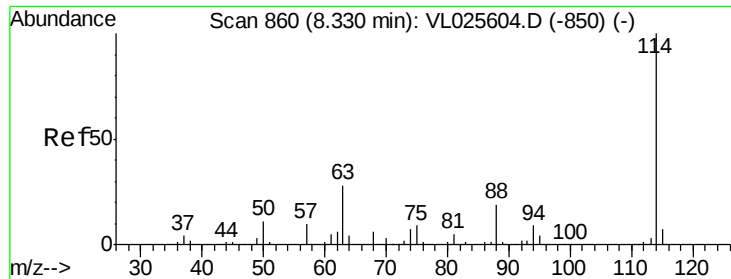


#19

Isopropyl Alcohol
Concen: 0.77 ppbv
RT: 4.78 min Scan# 278
Delta R.T. 0.04 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

Tgt Ion: 45 Resp: 50680
Ion Ratio Lower Upper
45 100
58 0.0 1.1 1.7#

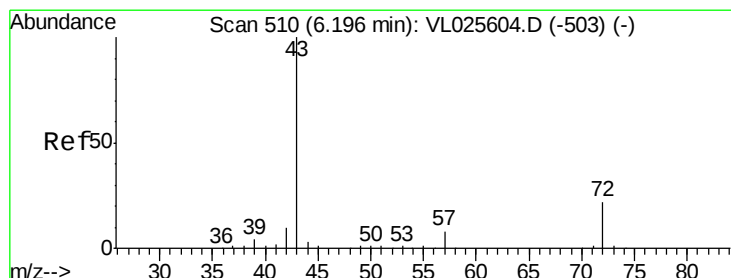
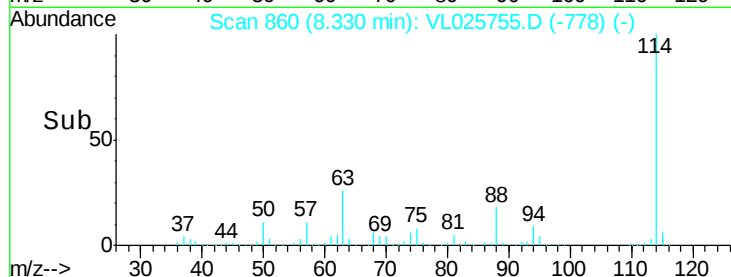
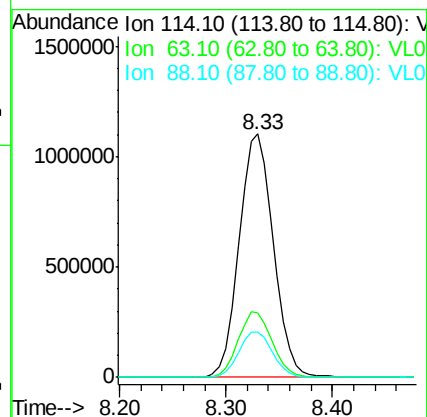
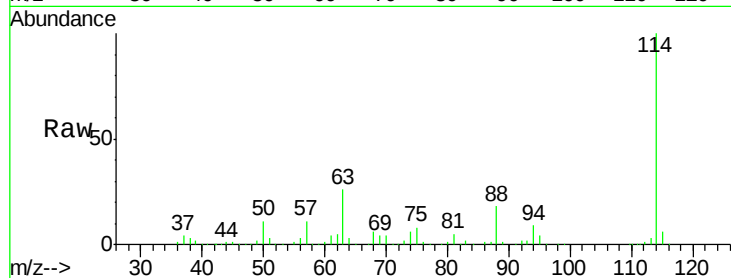




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.33 min Scan# 860
 Delta R.T. -0.00 min
 Lab File: VL025755.D
 Acq: 27 Jul 2015 16:10

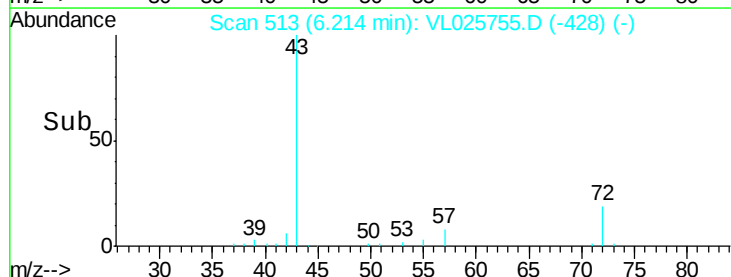
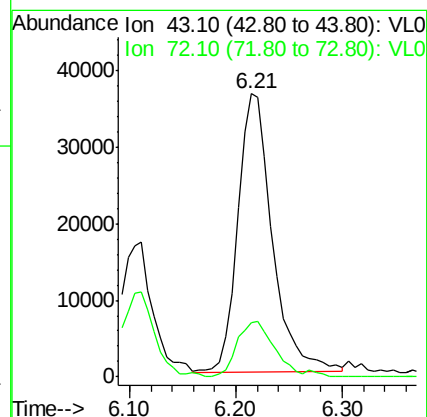
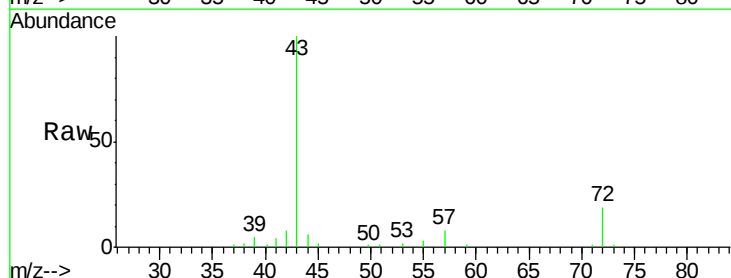
Instrument :
 MSVOA_L
 ClientSampleID :
 PR1DL

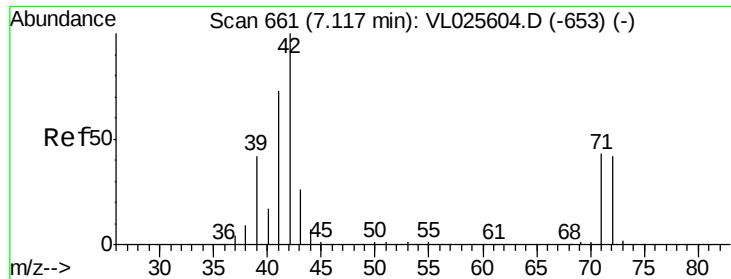
Tgt Ion: 114 Resp: 2490808
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.4 33.6
 88 18.6 15.0 22.4



#34
 2-Butanone
 Concen: 0.59 ppbv
 RT: 6.21 min Scan# 513
 Delta R.T. 0.02 min
 Lab File: VL025755.D
 Acq: 27 Jul 2015 16:10

Tgt Ion: 43 Resp: 83060
 Ion Ratio Lower Upper
 43 100
 72 22.0 18.6 28.0





#41

Tetrahydrofuran

Concen: 0.26 ppbv

RT: 7.17 min Scan# 669

Delta R.T. 0.05 min

Lab File: VL025755.D

Acq: 27 Jul 2015 16:10

Instrument :

MSVOA_L

ClientSampleId :

PR1DL

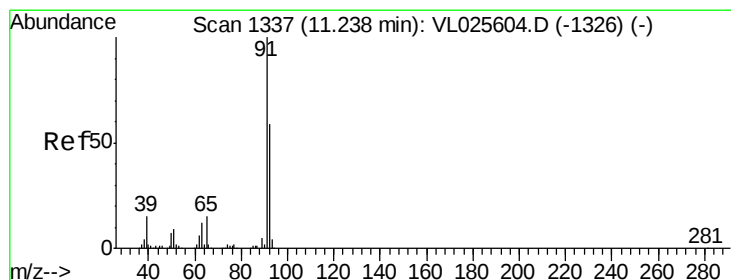
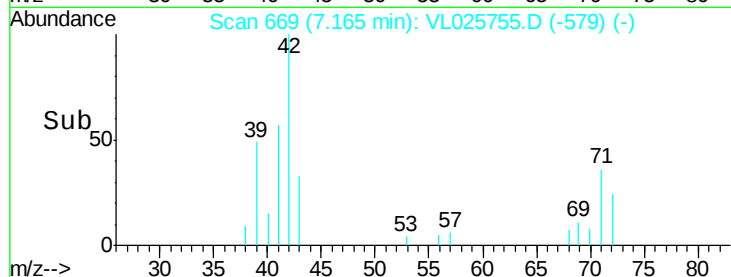
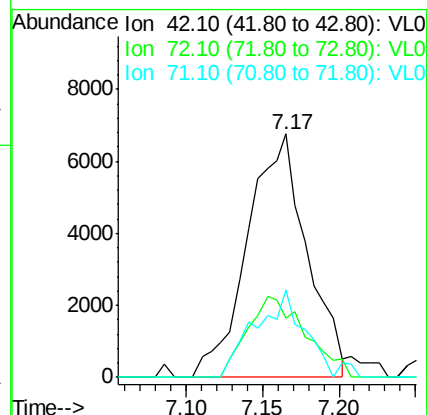
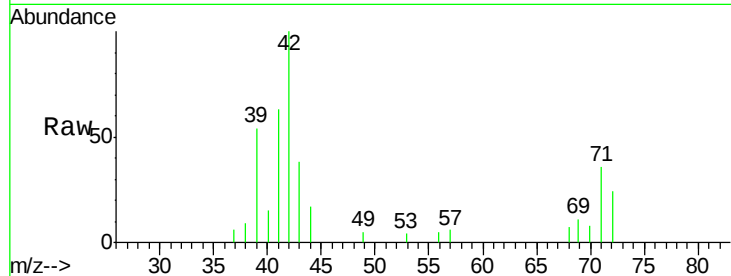
Tgt Ion: 42 Resp: 18242

Ion Ratio Lower Upper

42 100

72 32.6 34.0 51.0#

71 31.0 33.0 49.6#



#53

Toluene

Concen: 1.06 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VL025755.D

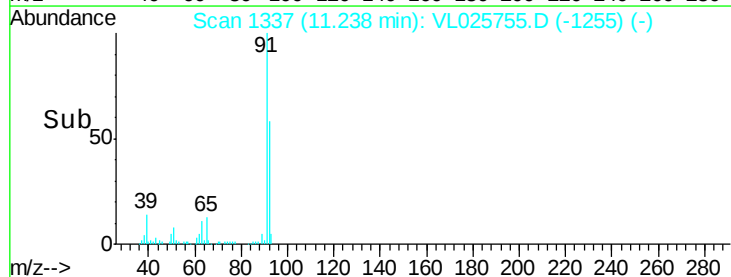
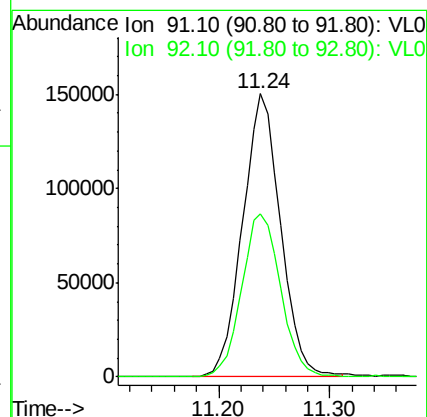
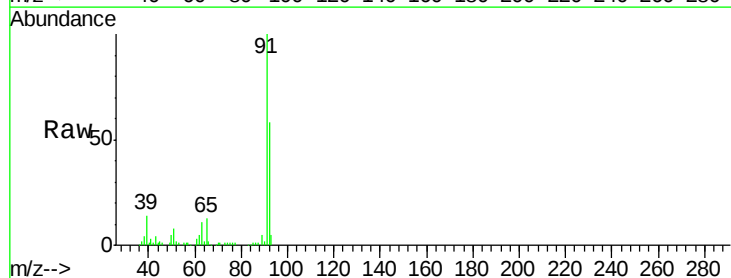
Acq: 27 Jul 2015 16:10

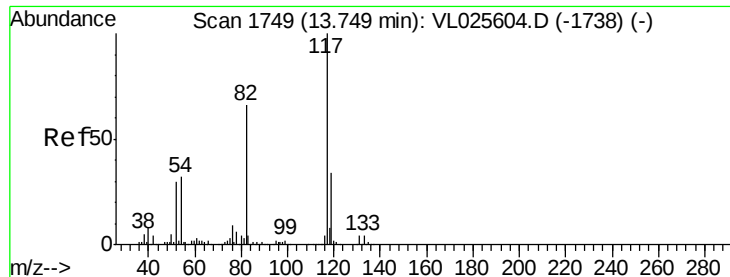
Tgt Ion: 91 Resp: 355964

Ion Ratio Lower Upper

91 100

92 59.7 48.2 72.2

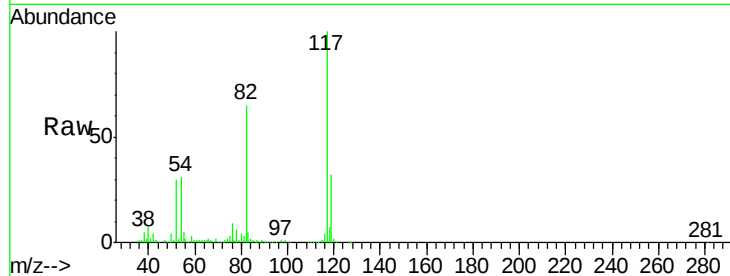




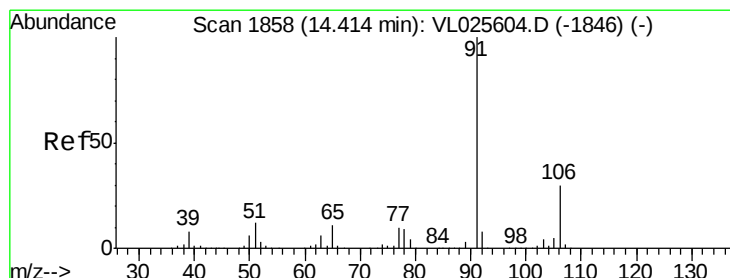
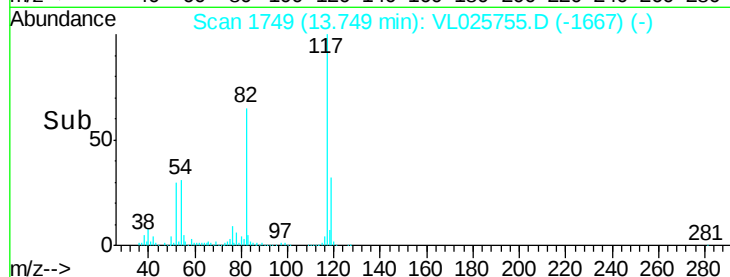
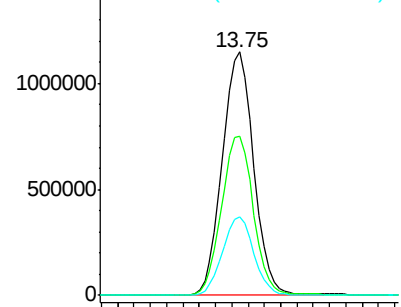
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.75 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

Instrument :
MSVOA_L
ClientSampleId :
PR1DL

Tgt Ion:117 Resp: 3078879
Ion Ratio Lower Upper
117 100
82 67.1 50.5 75.7
119 32.4 45.1 67.7#

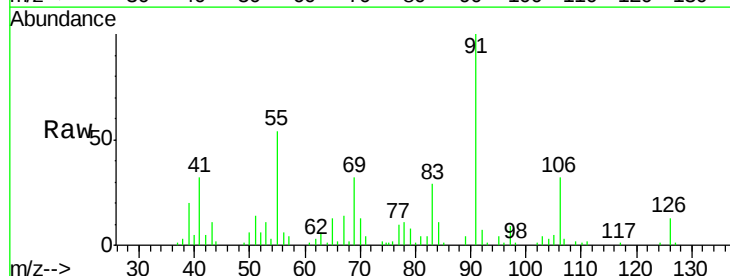


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

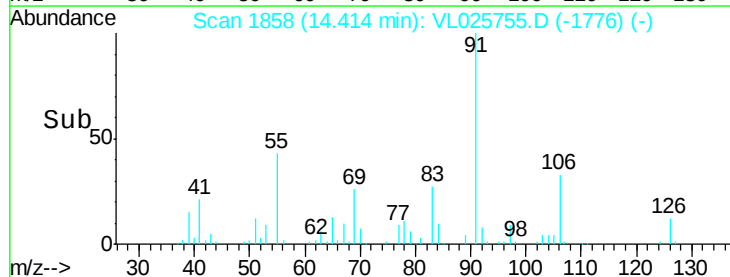
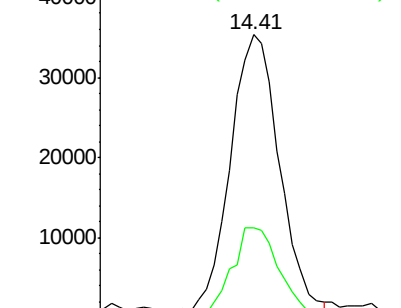


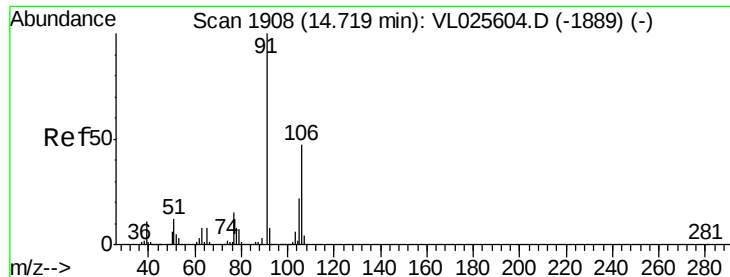
#58
Ethyl Benzene
Concen: 0.18 ppbv
RT: 14.41 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

Tgt Ion: 91 Resp: 91831
Ion Ratio Lower Upper
91 100
106 32.6 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

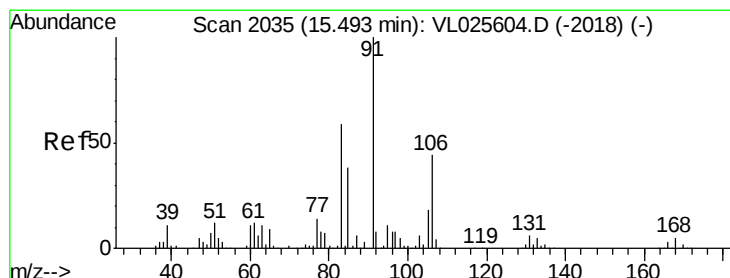
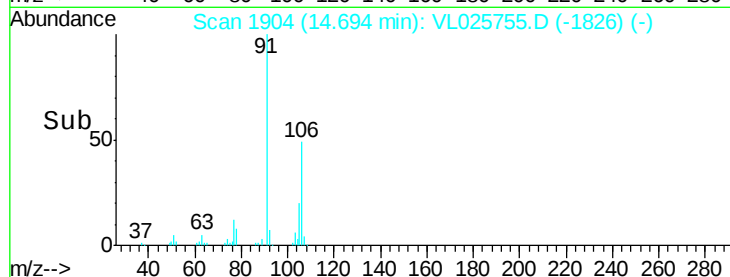
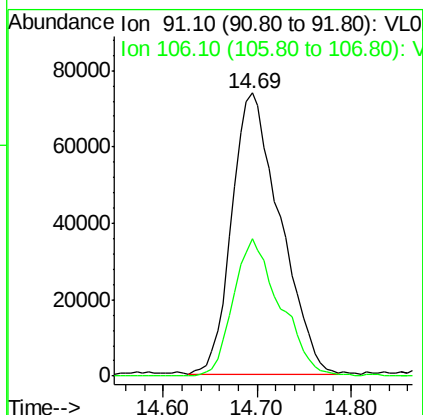
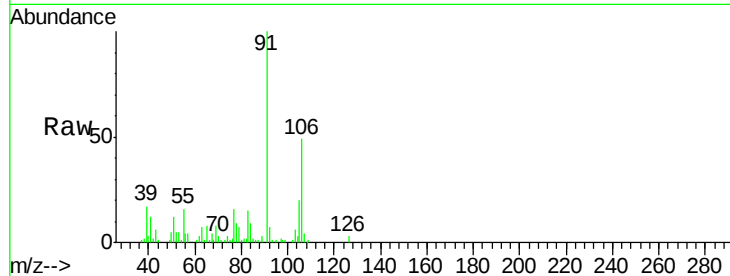




#59
m/p-Xylene
Concen: 0.59 ppbv
RT: 14.69 min Scan# 1904
Delta R.T. -0.02 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

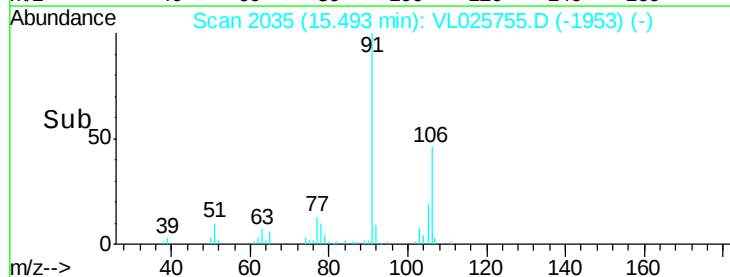
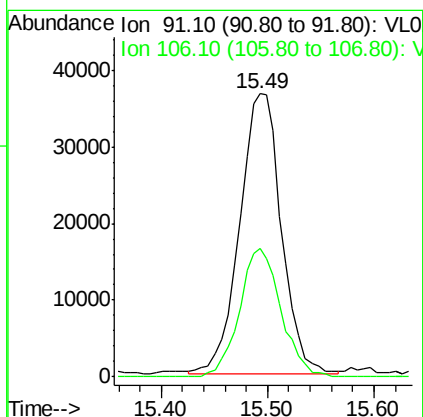
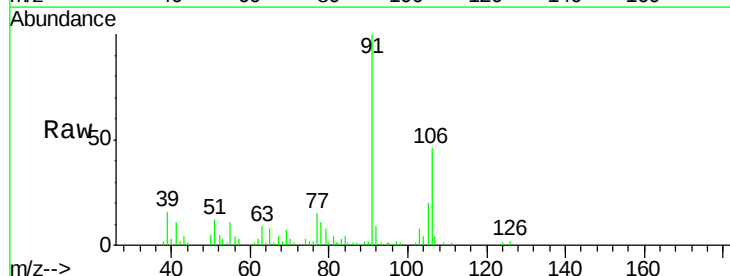
Instrument :
MSVOA_L
ClientSampleId :
PR1DL

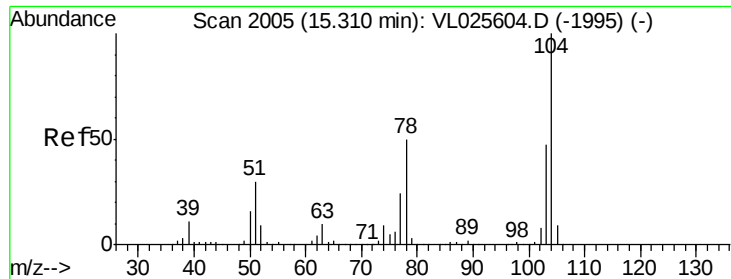
Tgt Ion: 91 Resp: 264342
Ion Ratio Lower Upper
91 100
106 47.2 37.9 56.9



#60
o-Xylene
Concen: 0.21 ppbv
RT: 15.49 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VL025755.D
Acq: 27 Jul 2015 16:10

Tgt Ion: 91 Resp: 99883
Ion Ratio Lower Upper
91 100
106 45.8 22.1 66.1





#61

Styrene

Concen: 0.51 ppbv

RT: 15.32 min Scan# 2006

Delta R.T. 0.01 min

Lab File: VL025755.D

Acq: 27 Jul 2015 16:10

Instrument :

MSVOA_L

ClientSampleId :

PR1DL

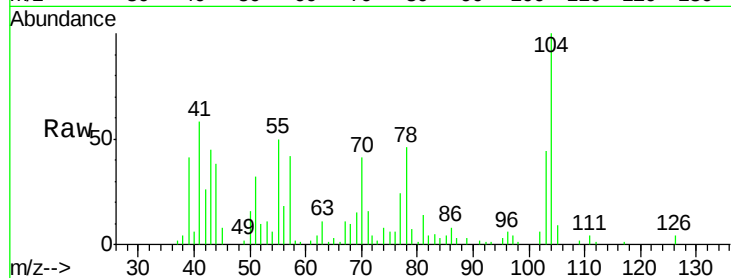
Tgt Ion:104 Resp: 85219

Ion Ratio Lower Upper

104 100

78 51.0 40.2 60.4

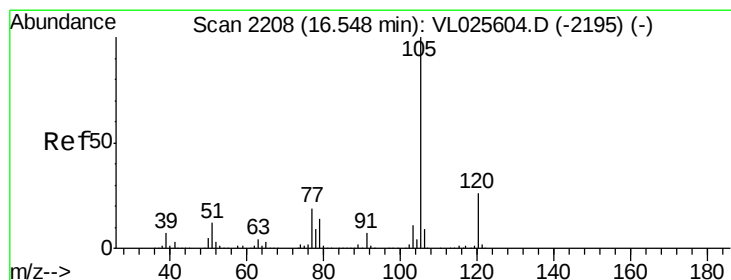
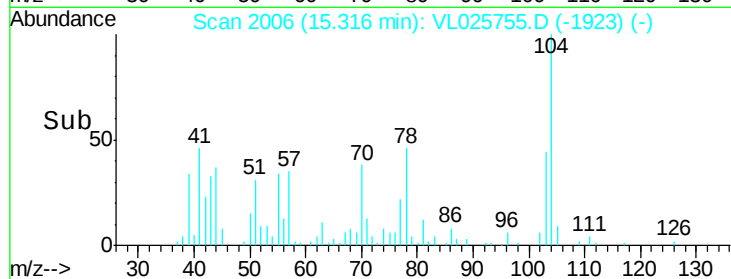
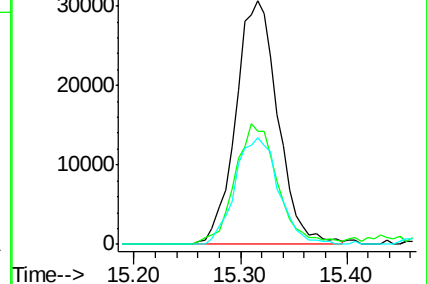
103 45.2 37.4 56.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.14 ppbv

RT: 16.55 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VL025755.D

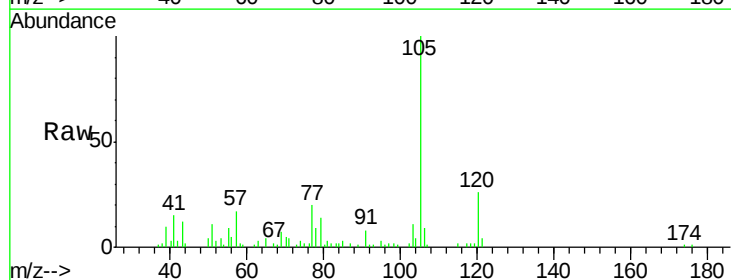
Acq: 27 Jul 2015 16:10

Tgt Ion:105 Resp: 87491

Ion Ratio Lower Upper

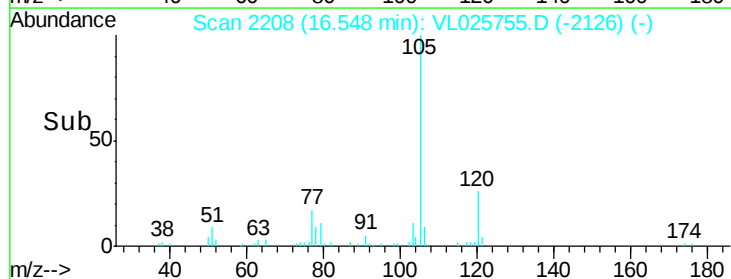
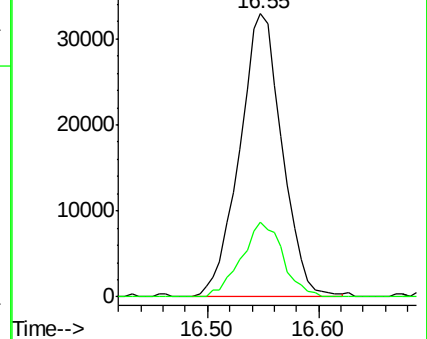
105 100

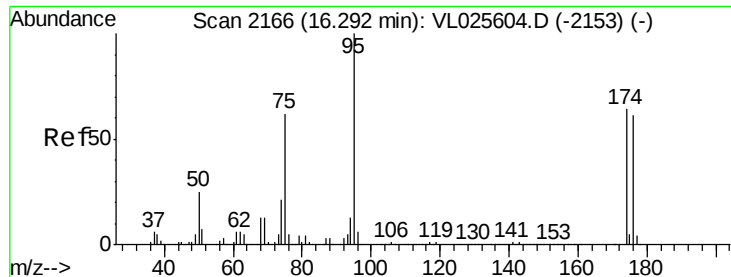
120 25.7 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

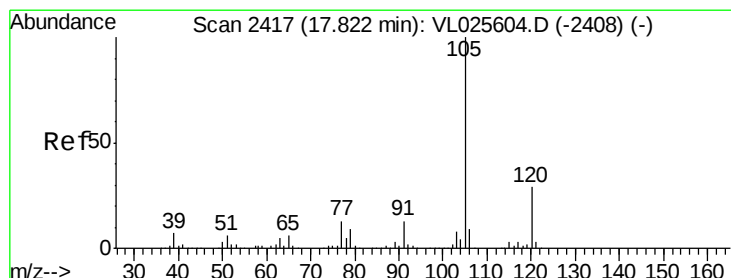
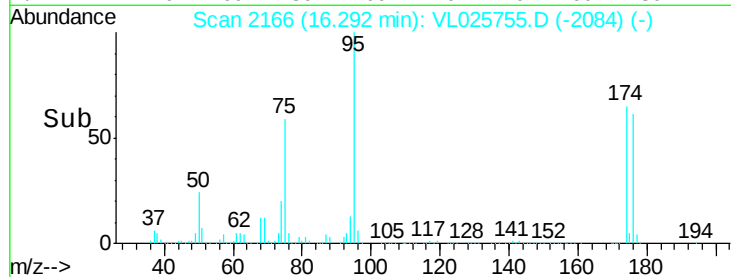
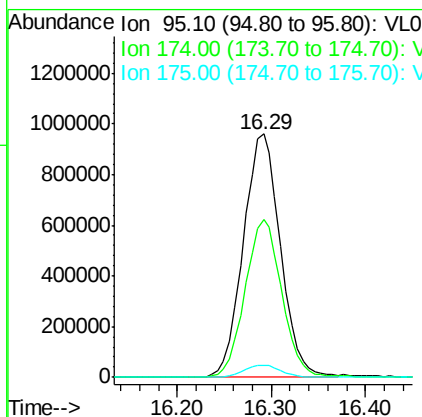
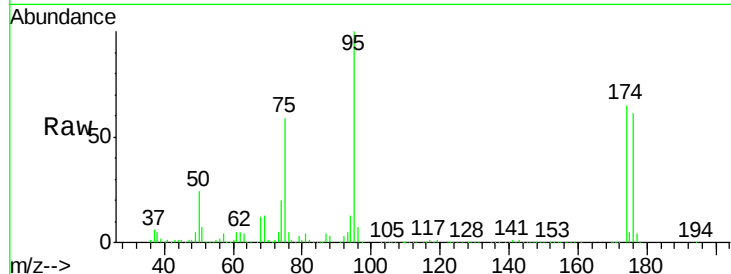




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.22 ppbv
 RT: 16.29 min Scan# 2166
 Delta R.T. -0.00 min
 Lab File: VL025755.D
 Acq: 27 Jul 2015 16:10

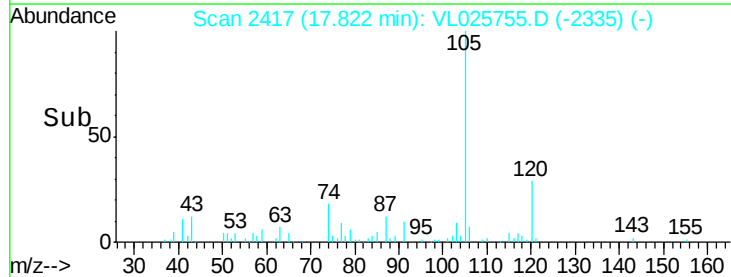
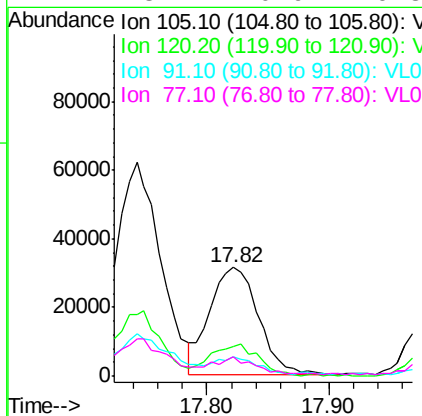
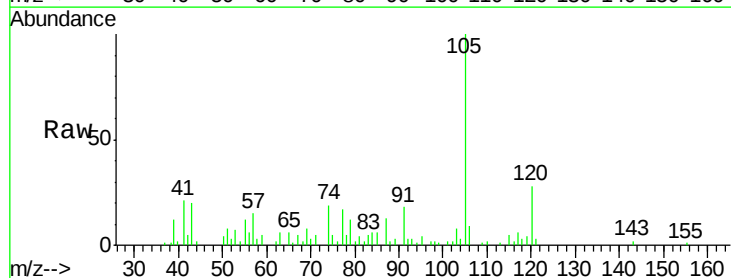
Instrument :
 MSVOA_L
 ClientSampleID :
 PR1DL

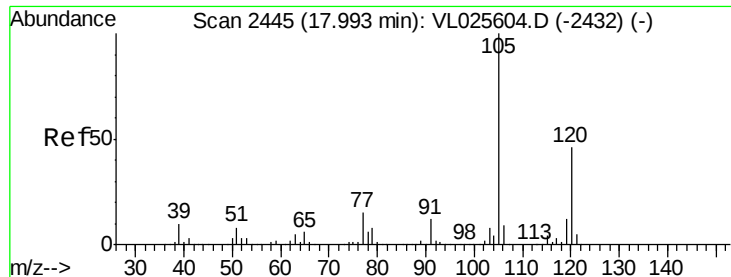
Tgt Ion: 95 Resp: 2653479
 Ion Ratio Lower Upper
 95 100
 174 64.8 52.0 78.0
 175 5.1 3.9 5.9



#72
 4-Ethyltoluene
 Concen: 0.16 ppbv
 RT: 17.82 min Scan# 2417
 Delta R.T. -0.00 min
 Lab File: VL025755.D
 Acq: 27 Jul 2015 16:10

Tgt Ion: 105 Resp: 85865
 Ion Ratio Lower Upper
 105 100
 120 26.9 23.9 35.9
 91 13.3 10.3 15.5
 77 13.1 10.9 16.3





#73

1,3,5-Trimethylbenzene

Concen: 0.12 ppbv

RT: 17.99 min Scan# 2445

Delta R.T. -0.00 min

Lab File: VL025755.D

Acq: 27 Jul 2015 16:10

Instrument :

MSVOA_L

ClientSampleID :

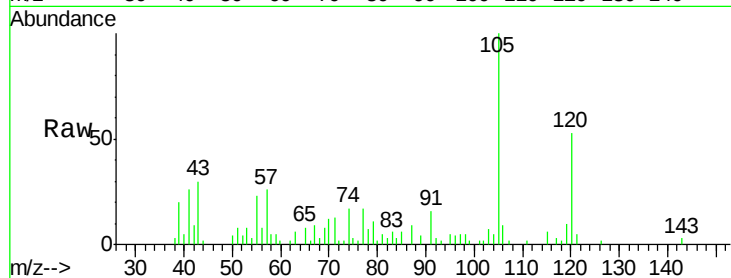
PR1DL

Tgt Ion:105 Resp: 64505

Ion Ratio Lower Upper

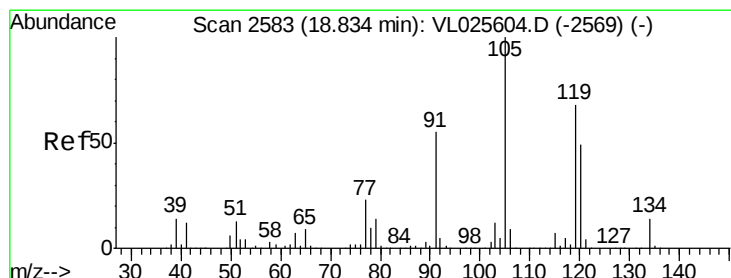
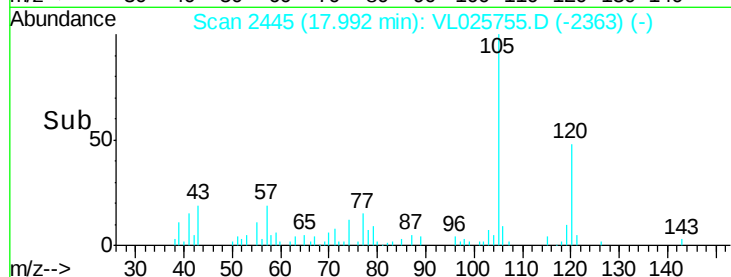
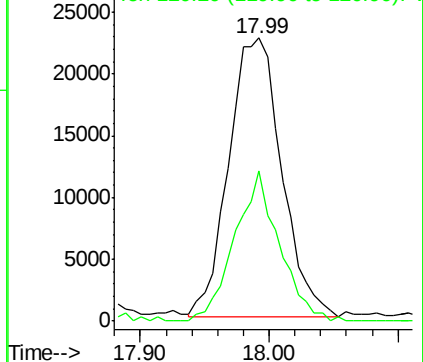
105 100

120 54.0 37.0 55.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.33 ppbv

RT: 18.83 min Scan# 2582

Delta R.T. -0.01 min

Lab File: VL025755.D

Acq: 27 Jul 2015 16:10

Tgt Ion:105 Resp: 190495

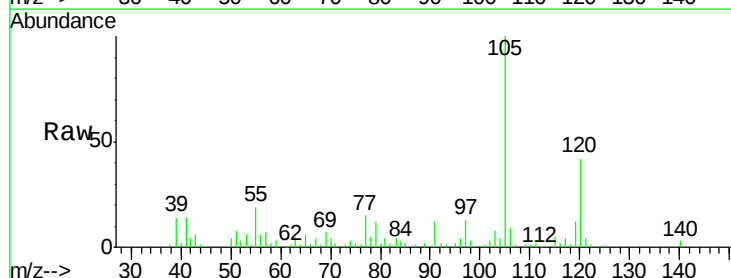
Ion Ratio Lower Upper

105 100

120 42.0 39.3 58.9

91 10.3 43.8 65.6#

77 13.2 18.3 27.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

