

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025754.D
 Acq On : 27 Jul 2015 15:30
 Operator : SY/MD
 Sample : G3097-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 PR1

Quant Time: Jul 28 01:00:36 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	6.67	49	568511	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	1461613	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	1824196	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	1554601	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	14218	0.10	ppbv	100
3) Chlorodifluoromethane	3.57	51	68093	0.85	ppbv #	89
4) Chloromethane	3.75	50	55000	1.50	ppbv	94
6) Bromomethane	4.14	94	982	0.03	ppbv	94
7) Chloroethane	4.24	64	3537	0.19	ppbv #	83
9) Propene	3.60	41	97388	3.66	ppbv	92
10) Heptane	9.35	43	190564	1.84	ppbv	94
11) Trichlorofluoromethane	4.69	101	21544	0.11	ppbv	96
13) Ethanol	4.35	45	92212	22.28	ppbv	99
15) Acetone	4.59	43	6169488	61.43	ppbv #	88
16) 1,3-Butadiene	4.00	39	58416	1.46	ppbv #	12
17) tert-Butyl alcohol	5.15	59	440517	5.23	ppbv	99
19) Isopropyl Alcohol	4.77	45	248601	6.20	ppbv #	96
20) Methylene Chloride	5.16	84	76118	1.87	ppbv	93
21) Allyl Chloride	5.16	41	50528	0.80	ppbv #	44
23) Vinyl Acetate	6.01	43	265905	1.75	ppbv #	82
25) Ethyl Acetate	6.67	43	242310	1.59	ppbv #	92
26) Hexane	6.66	57	101922	1.42	ppbv	82
27) Carbon Disulfide	5.39	76	38460	0.33	ppbv #	90
28) Methyl tert-Butyl Ether	5.96	73	4577	0.03	ppbv #	1
29) Chloroform	6.76	83	26129	0.18	ppbv	88
30) Cyclohexane	8.29	84	24715	0.36	ppbv #	11
31) cis-1,2-Dichloroethene	6.68	61	21457	0.30	ppbv #	30
34) 2-Butanone	6.20	43	661904	7.98	ppbv	100
35) Carbon Tetrachloride	8.17	117	22949	0.15	ppbv	95
36) Benzene	8.02	78	176036	1.26	ppbv	96
37) 1,2-Dichloroethane	7.38	62	36124	0.30	ppbv #	96
38) Trichloroethene	9.07	130	41000	0.63	ppbv	94
39) 1,2-Dichloropropane	8.83	63	2281	0.04	ppbv #	65
41) Tetrahydrofuran	7.12	42	168955	4.08	ppbv	93
42) Bromodichloromethane	9.02	83	14916	0.10	ppbv #	32
43) Methyl Methacrylate	9.27	69	8935	0.17	ppbv #	1
44) 2,2,4-Trimethylpentane	9.09	57	199958	0.83	ppbv	89
50) 4-Methyl-2-Pentanone	10.10	43	134132	1.12	ppbv	93
51) 2-Hexanone	11.63	43	41082	0.38	ppbv #	98
52) Tetrachloroethene	12.79	164	51968	0.74	ppbv	88
53) Toluene	11.24	91	3090744	15.71	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.94	131	3233	0.03	ppbv #	1
57) Chlorobenzene	13.85	112	34402	0.18	ppbv #	36
58) Ethyl Benzene	14.43	91	919352	3.05	ppbv	100
59) m/p-Xylene	14.71	91	2524282	9.53	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

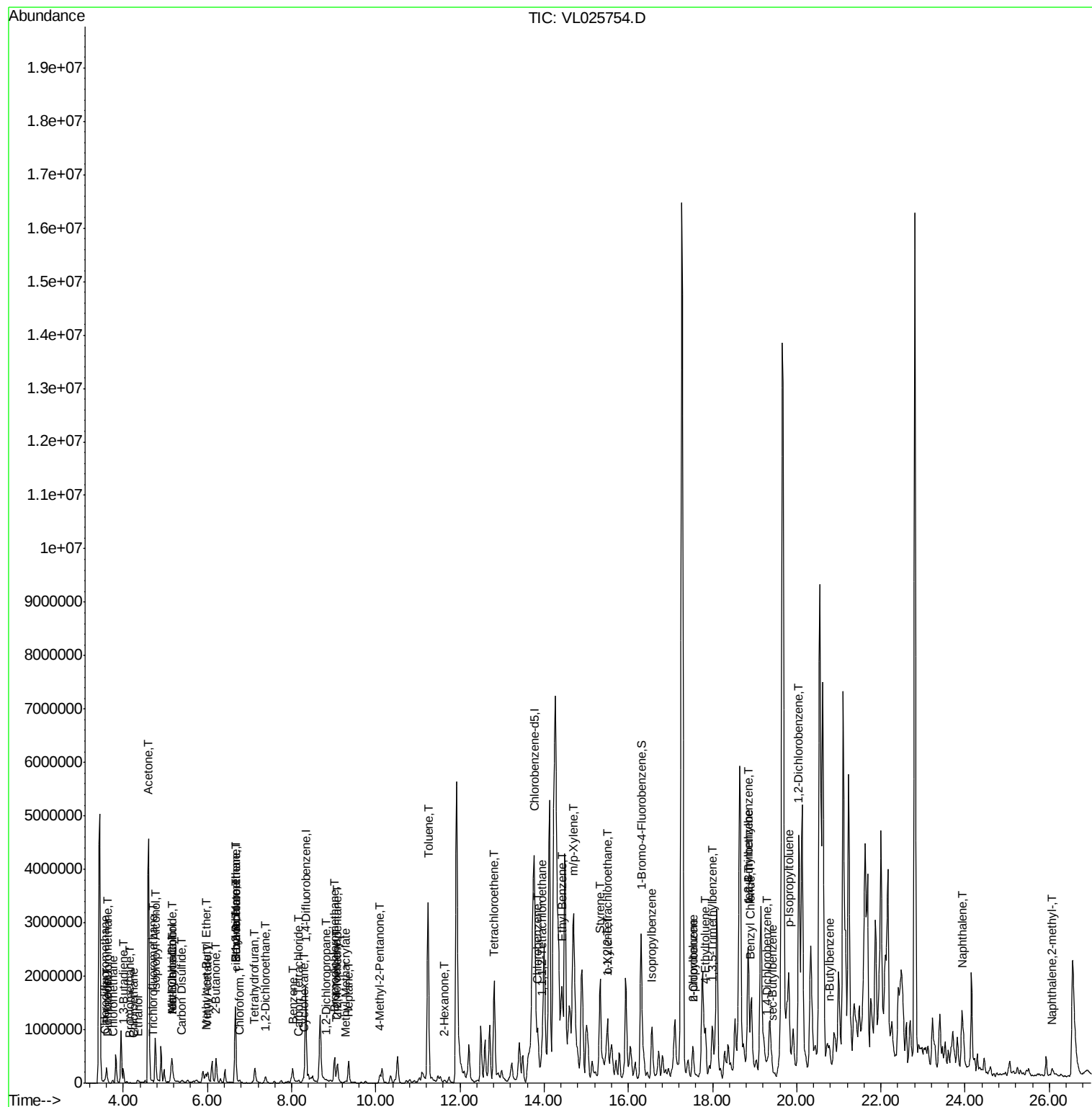
60) o-Xylene	15.51	91	1003432	3.52	ppbv	100
61) Styrene	15.32	104	889863	8.91	ppbv	99
62) Isopropylbenzene	16.56	105	927444	2.49	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.49	83	9076	0.05	ppbv #	95
64) n-propylbenzene	17.54	120	145582	1.44	ppbv	93
65) tert-Butylbenzene	18.85	119	225843	0.62	ppbv #	58
66) Benzyl Chloride	18.90	91	23042	0.17	ppbv #	1
67) sec-Butylbenzene	19.43	105	68131	0.13	ppbv	98
69) p-Isopropyltoluene	19.80	119	562930	1.33	ppbv #	90
70) n-Butylbenzene	20.77	91	172567	0.40	ppbv #	58
71) 2-Chlorotoluene	17.54	91	686472	2.51	ppbv #	45
72) 4-Ethyltoluene	17.83	105	836614	2.65	ppbv	96
73) 1,3,5-Trimethylbenzene	18.00	105	617160	1.99	ppbv	99
74) 1,2,4-Trimethylbenzene	18.85	105	1896618	5.47	ppbv #	68
76) 1,4-Dichlorobenzene	19.28	146	81503	0.36	ppbv #	59
77) 1,2-Dichlorobenzene	20.04	146	9721	0.04	ppbv #	67
79) Naphthalene	23.94	128	438936	1.31	ppbv #	96
80) Naphthalene,2-methyl-	26.05	142	23603	0.24	ppbv #	77

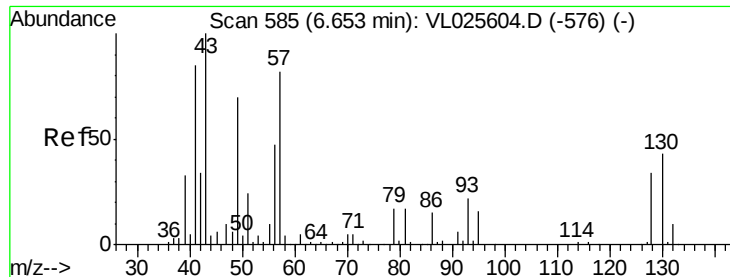
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :
MSVOA_L
ClientSampled :
PR1

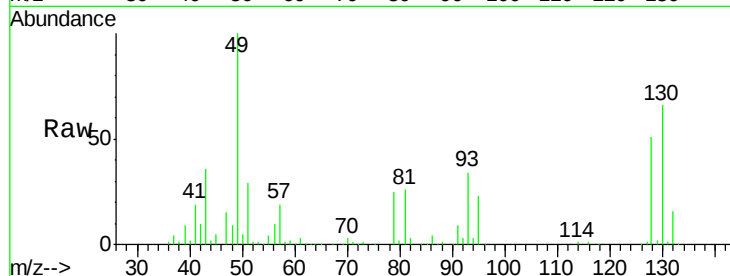
Tot Ion: 49 Resp: 568511

Ion Ratio Lower Upper

49 100

128 50.3 25.4 76.0

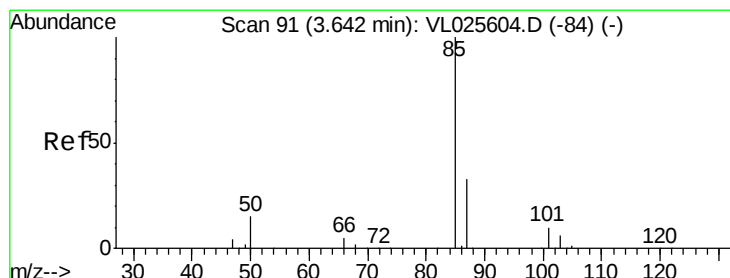
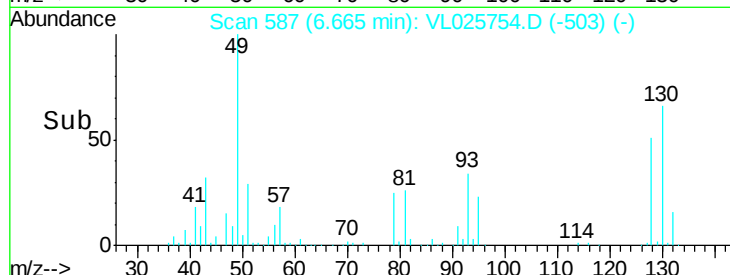
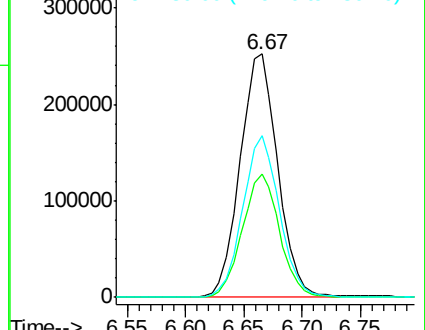
130 64.9 31.9 95.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.10 ppbv

RT: 3.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL025754.D

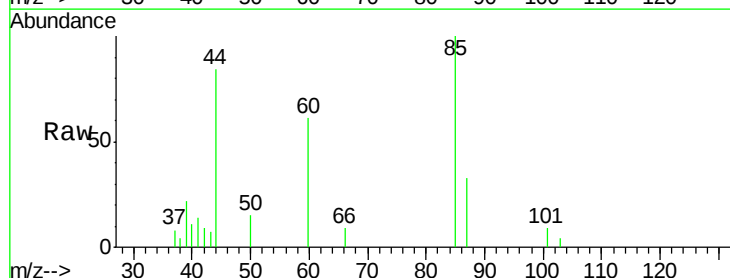
Acq: 27 Jul 2015 15:30

Tgt Ion: 85 Resp: 14218

Ion Ratio Lower Upper

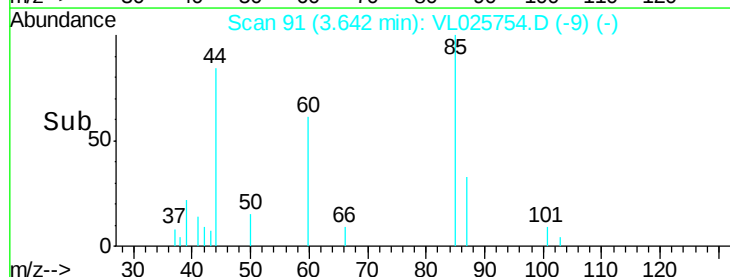
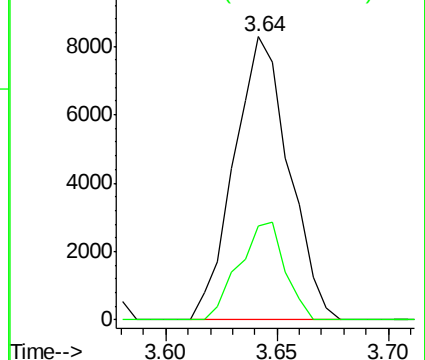
85 100

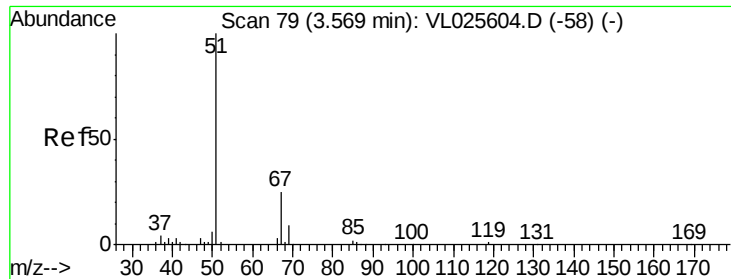
87 33.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

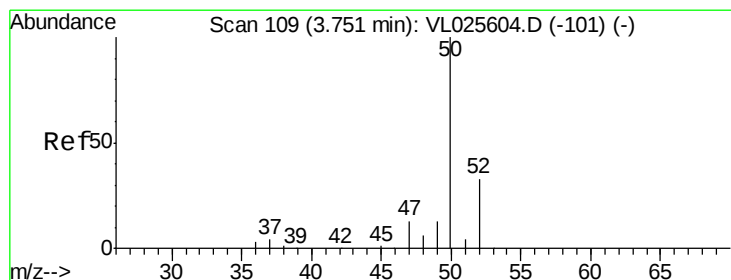
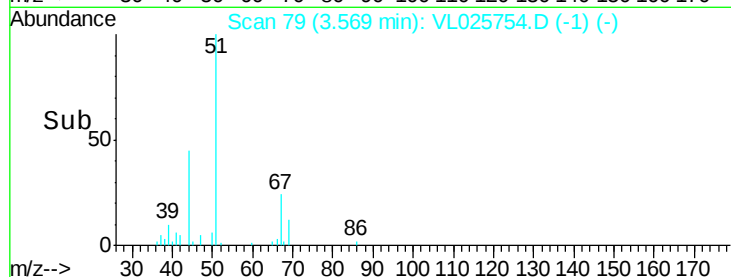
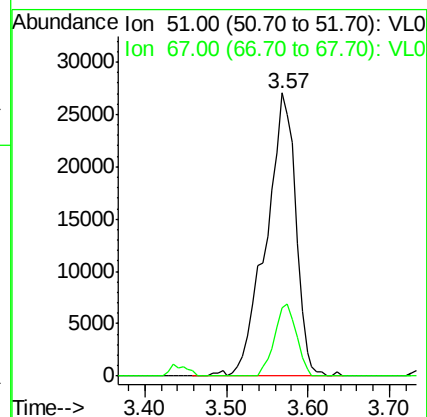
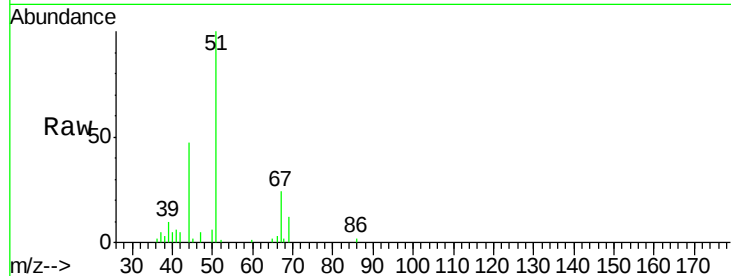




#3
Chlorodifluoromethane
Concen: 0.85 ppbv
RT: 3.57 min Scan# 79
Delta R.T. 0.00 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

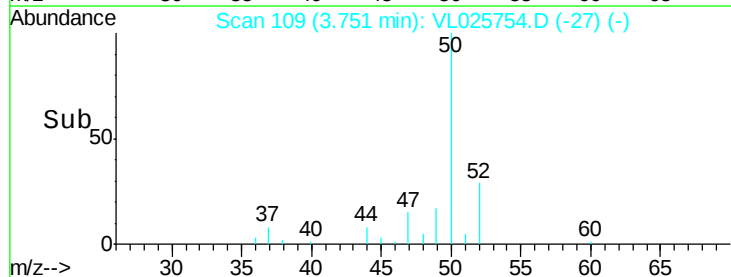
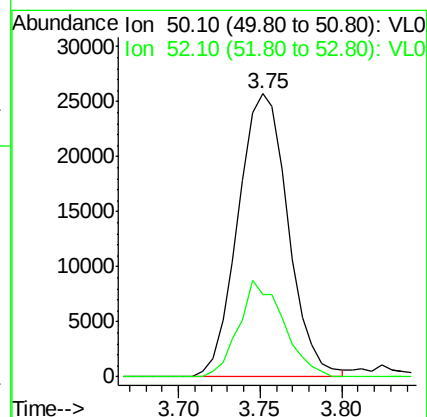
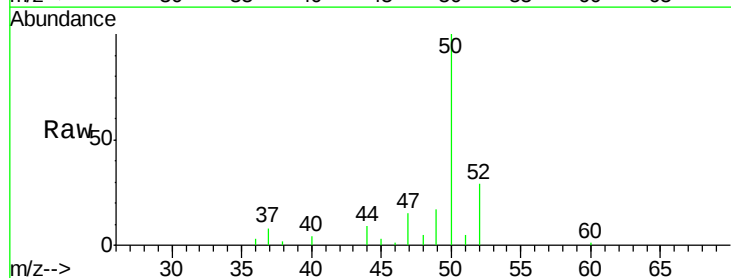
Instrument :
MSVOA_L
ClientSampleId :
PR1

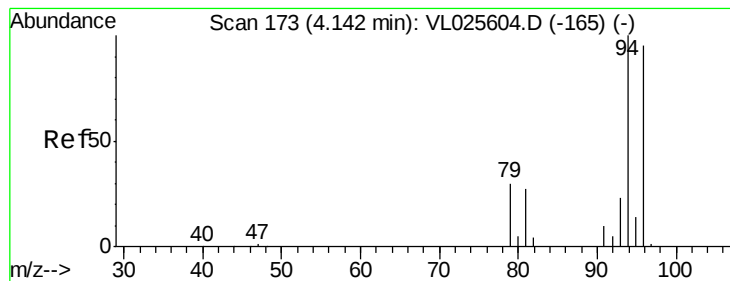
Tot Ion: 51 Resp: 68093
Ion Ratio Lower Upper
51 100
67 18.7 19.5 29.3#



#4
Chloromethane
Concen: 1.50 ppbv
RT: 3.75 min Scan# 109
Delta R.T. 0.00 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 50 Resp: 55000
Ion Ratio Lower Upper
50 100
52 29.3 26.2 39.2





#6

Bromomethane

Concen: 0.03 ppbv

RT: 4.14 min Scan# 173

Delta R.T. 0.00 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

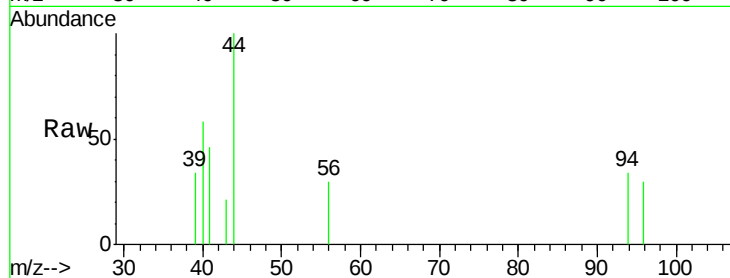
PR1

Tot Ion: 94 Resp: 982

Ion Ratio Lower Upper

94 100

96 88.7 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

800

600

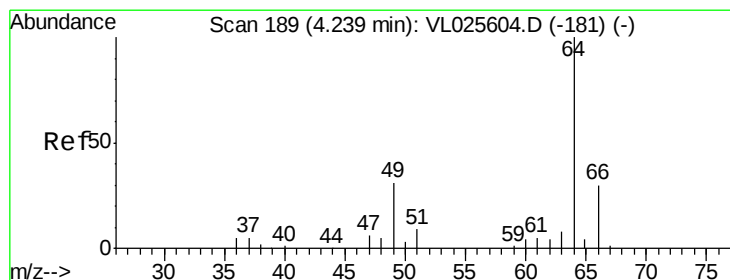
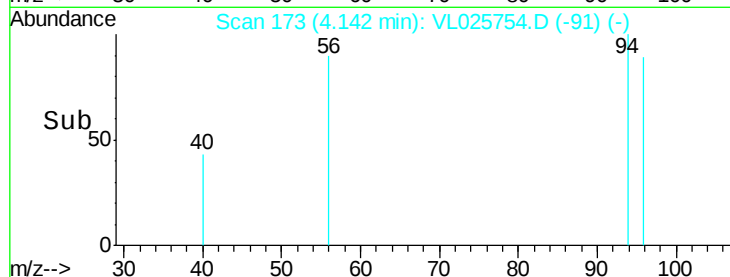
400

200

0

4.12 4.14 4.16 4.18

Time-->



#7

Chloroethane

Concen: 0.19 ppbv

RT: 4.24 min Scan# 189

Delta R.T. 0.00 min

Lab File: VL025754.D

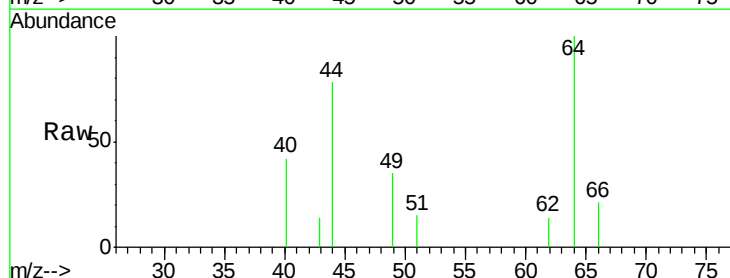
Acq: 27 Jul 2015 15:30

Tgt Ion: 64 Resp: 3537

Ion Ratio Lower Upper

64 100

66 20.9 23.8 35.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

2500

2000

1500

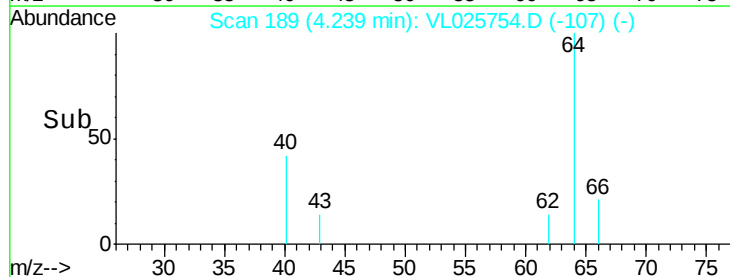
1000

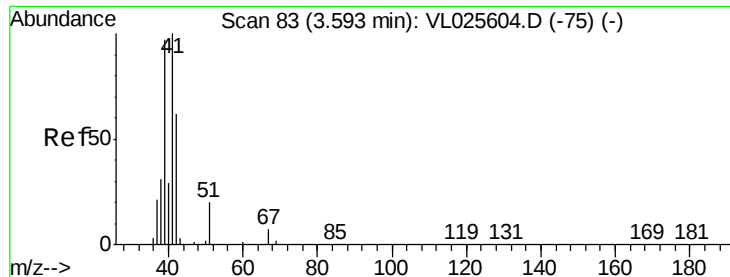
500

0

4.20 4.25

Time-->





#9

Propene

Concen: 3.66 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampled :

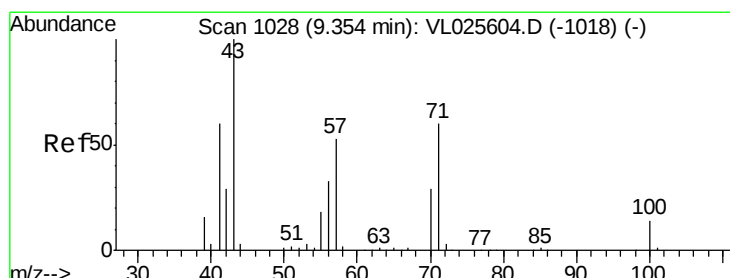
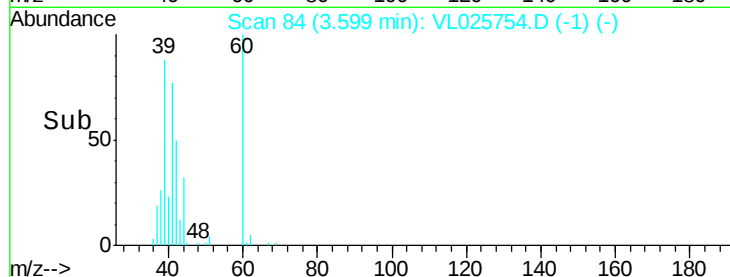
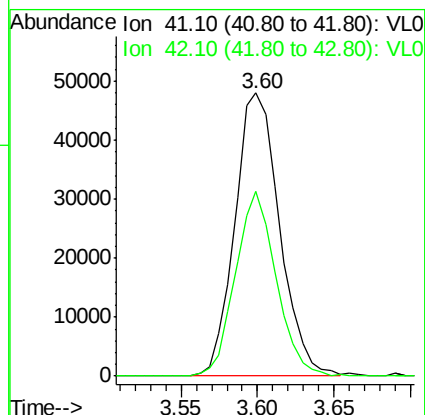
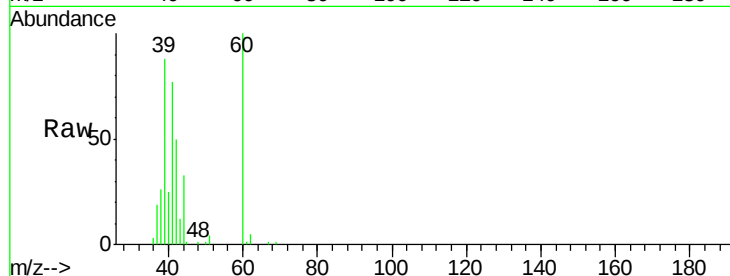
PR1

Tot Ion: 41 Resp: 97388

Ion Ratio Lower Upper

41 100

42 59.2 52.4 78.6



#10

Heptane

Concen: 1.84 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. 0.00 min

Lab File: VL025754.D

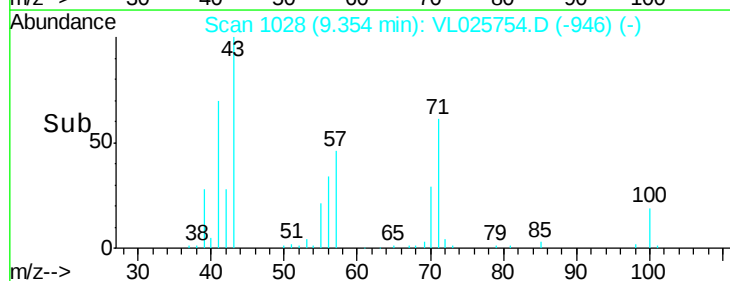
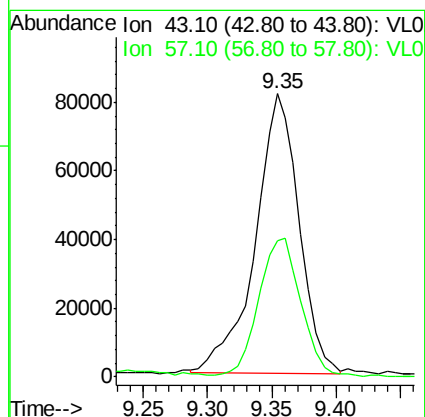
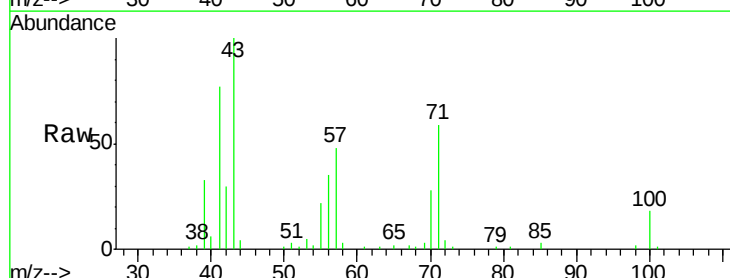
Acq: 27 Jul 2015 15:30

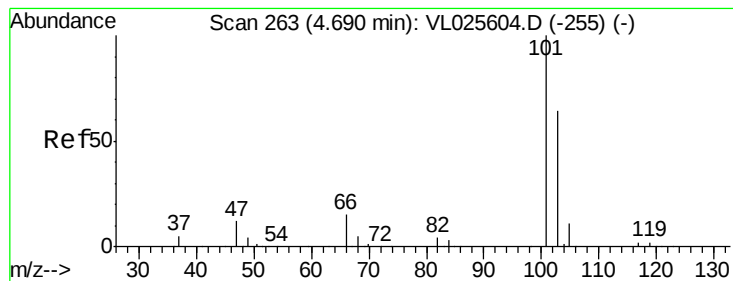
Tgt Ion: 43 Resp: 190564

Ion Ratio Lower Upper

43 100

57 49.3 42.6 64.0





#11

Trichlorofluoromethane

Concen: 0.11 ppbv

RT: 4.69 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampled :

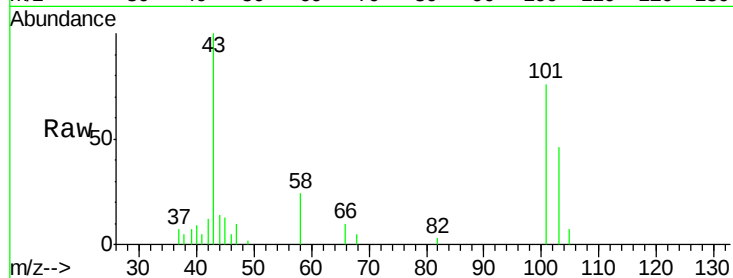
PR1

Tot Ion:101 Resp: 21544

Ion Ratio Lower Upper

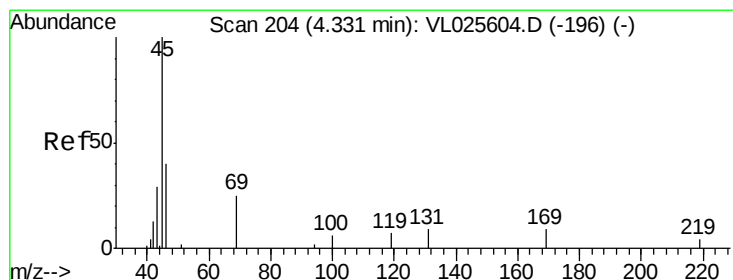
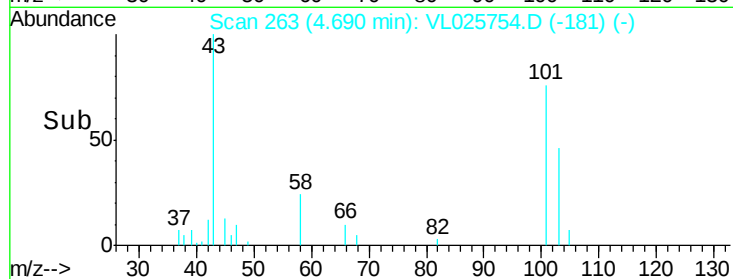
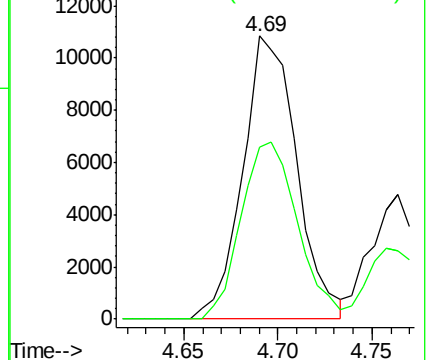
101 100

103 60.8 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 22.28 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.02 min

Lab File: VL025754.D

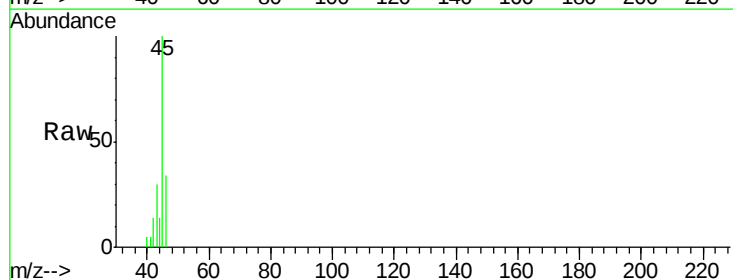
Acq: 27 Jul 2015 15:30

Tgt Ion: 45 Resp: 92212

Ion Ratio Lower Upper

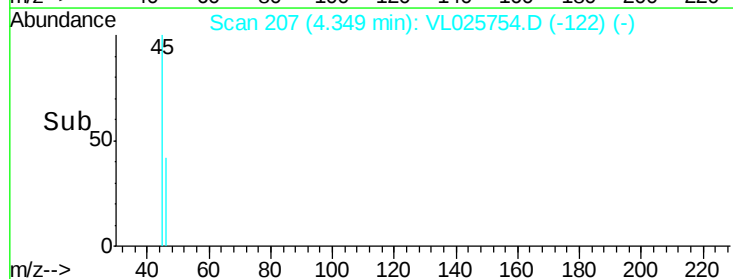
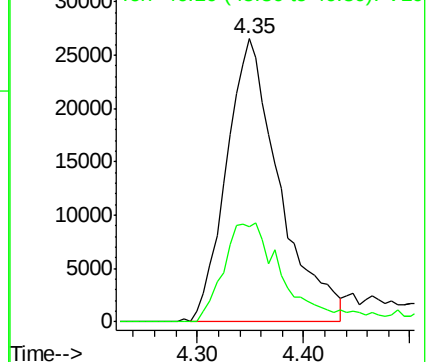
45 100

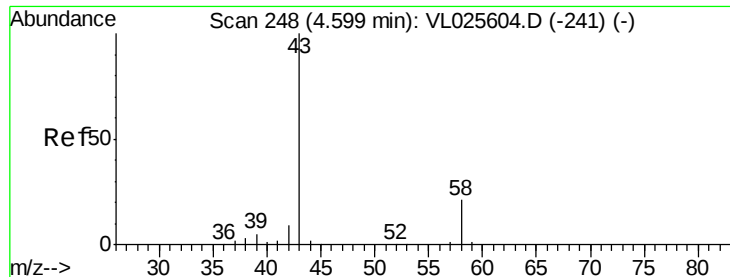
46 40.9 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 61.43 ppbv

RT: 4.59 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL025754.D

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ClientSampled :

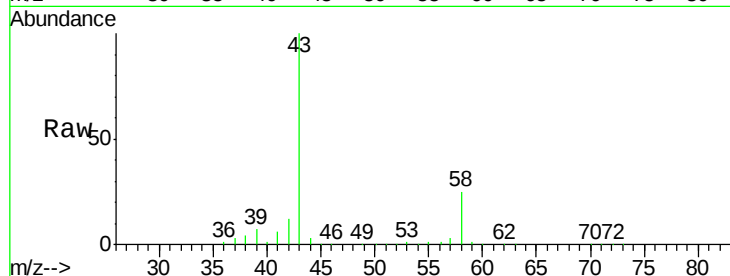
PR1

Tot Ion: 43 Resp: 6169488

Ion Ratio Lower Upper

43 100

58 27.3 17.2 25.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.59

2500000

2000000

1500000

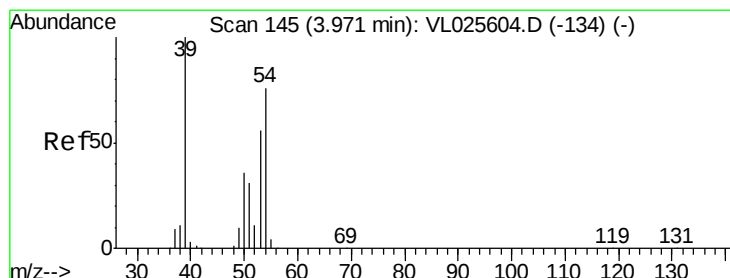
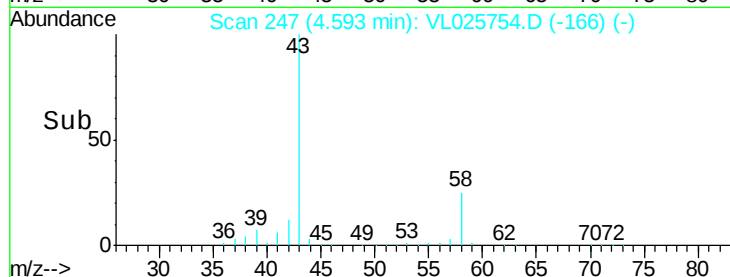
1000000

500000

0

Time-->

4.50 4.60 4.70



#16

1,3-Butadiene

Concen: 1.46 ppbv

RT: 4.00 min Scan# 150

Delta R.T. 0.03 min

Lab File: VL025754.D

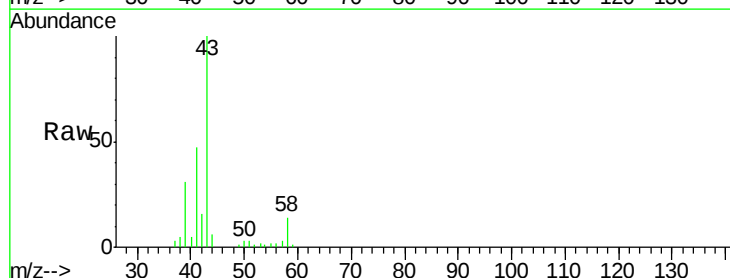
Acq: 27 Jul 2015 15:30

Tgt Ion: 39 Resp: 58416

Ion Ratio Lower Upper

39 100

54 0.0 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

250000

200000

150000

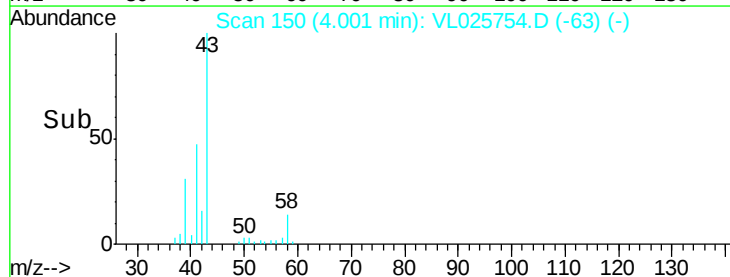
100000

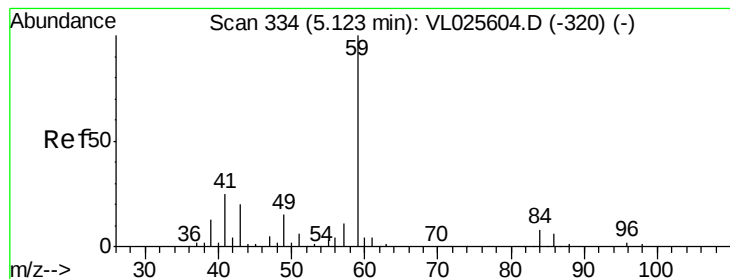
50000

0

Time-->

4.00 4.05



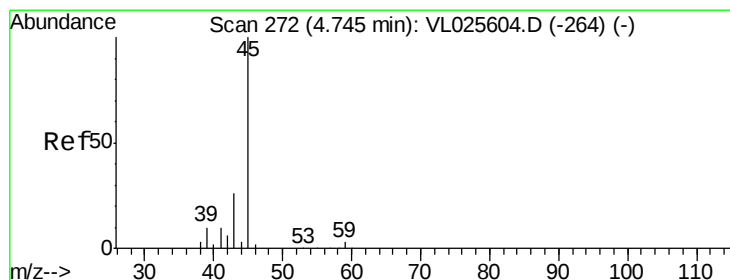
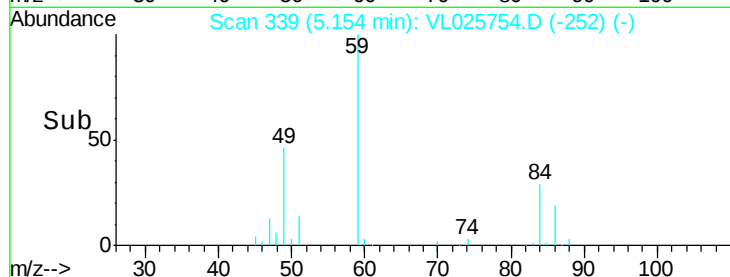
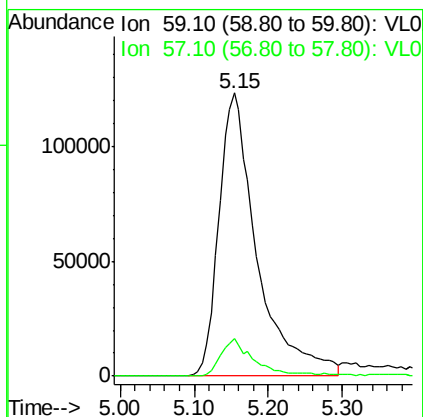
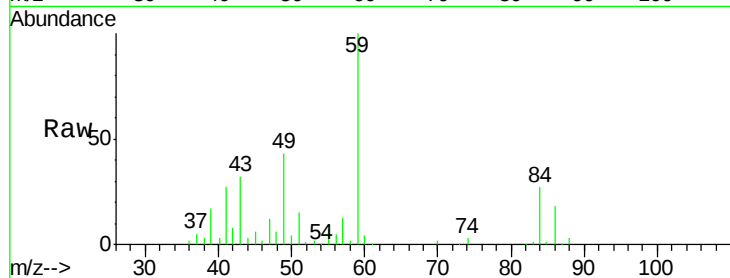


#17

tert-Butyl alcohol
 Concen: 5.23 ppbv
 RT: 5.15 min Scan# 339
 Delta R.T. 0.03 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

Instrument :
 MSVOA_L
 ClientSampled :
 PR1

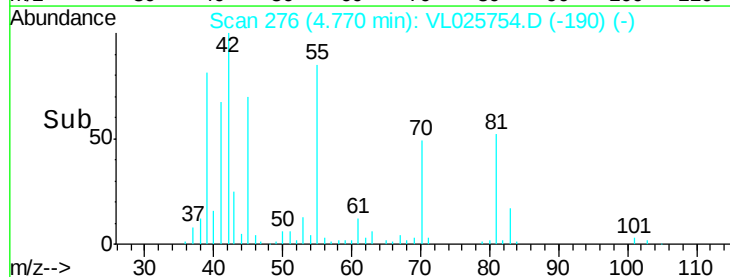
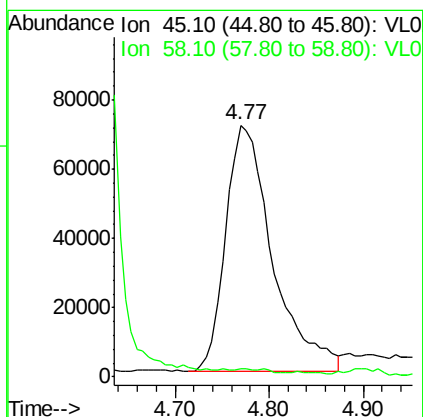
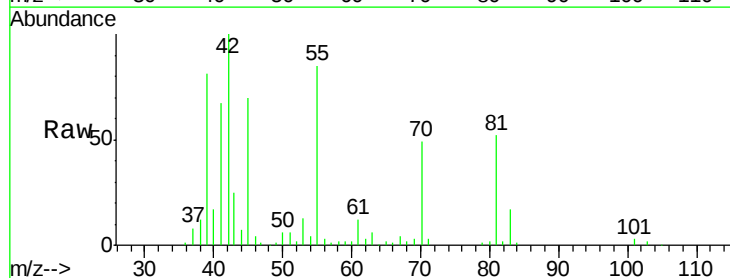
Tot Ion: 59 Resp: 440517
 Ion Ratio Lower Upper
 59 100
 57 12.1 9.4 14.2

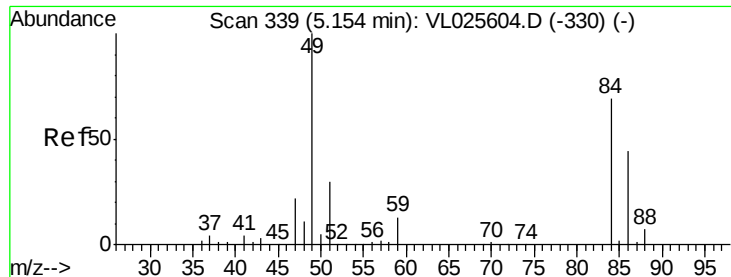


#19

Isopropyl Alcohol
 Concen: 6.20 ppbv
 RT: 4.77 min Scan# 276
 Delta R.T. 0.02 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

Tgt Ion: 45 Resp: 248601
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.1 1.7#

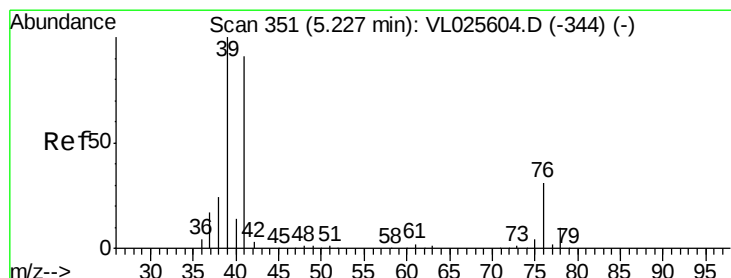
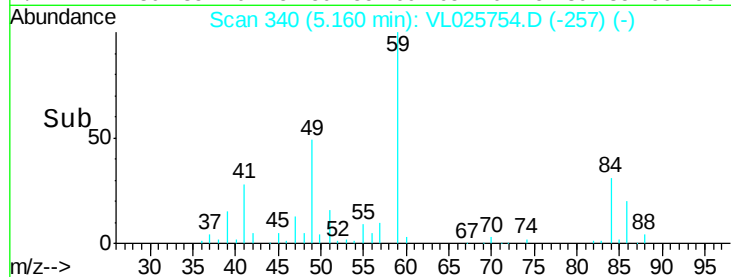
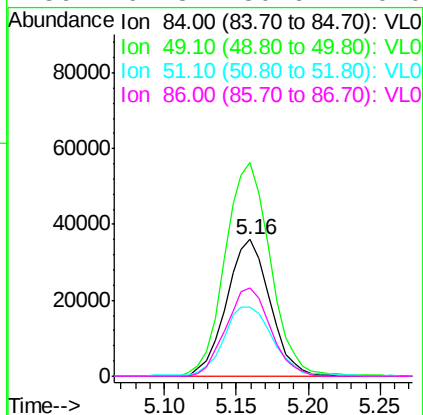
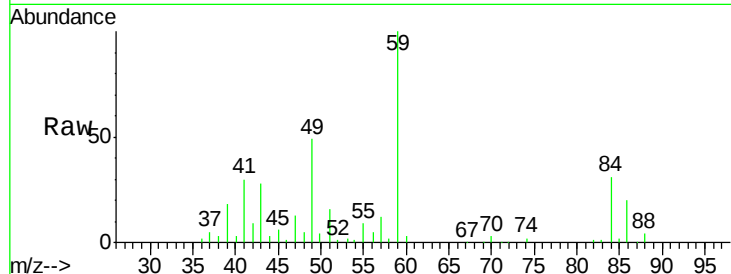




#20
Methylene Chloride
Concen: 1.87 ppbv
RT: 5.16 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

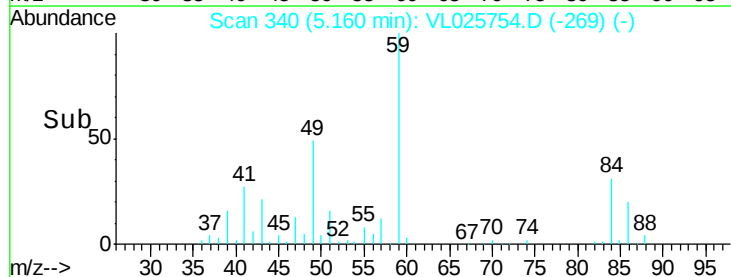
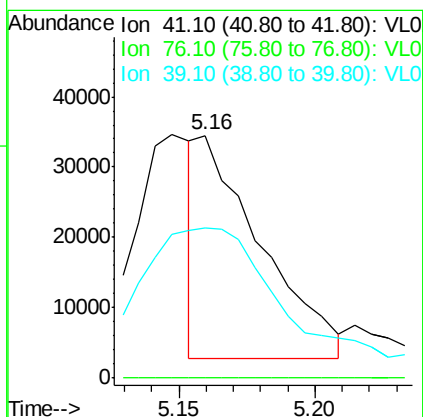
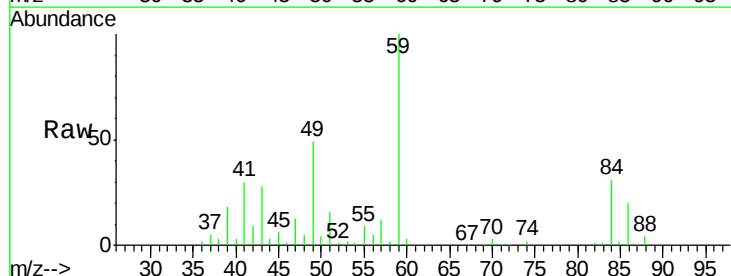
Instrument :
MSVOA_L
ClientSampleId :
PR1

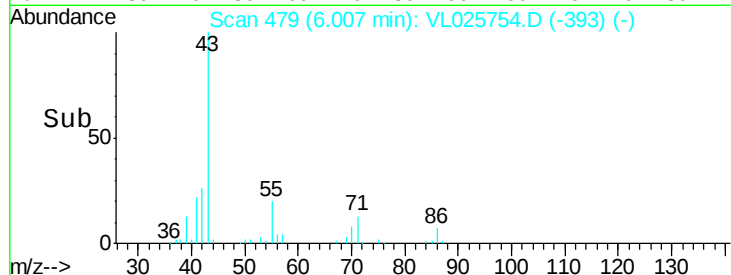
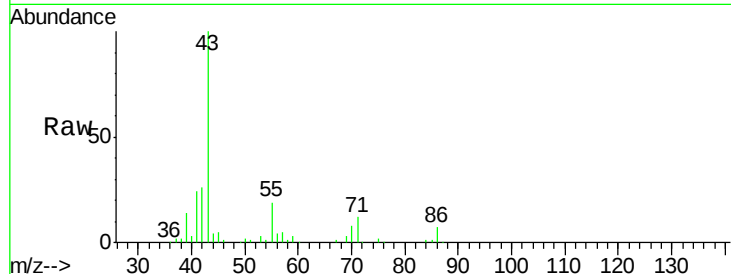
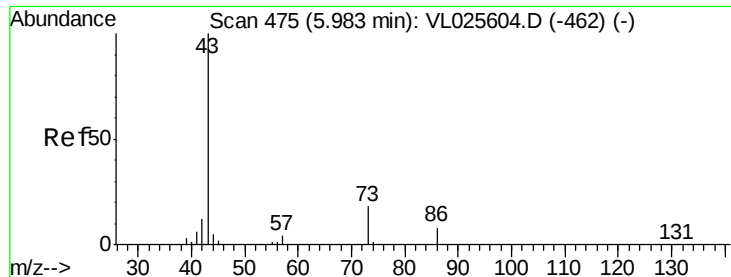
Tot Ion: 84 Resp: 76118
Ion Ratio Lower Upper
84 100
49 154.5 115.2 172.8
51 49.3 35.0 52.6
86 64.3 50.6 76.0



#21
Allyl Chloride
Concen: 0.80 ppbv
RT: 5.16 min Scan# 340
Delta R.T. -0.07 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 41 Resp: 50528
Ion Ratio Lower Upper
41 100
76 0.0 26.6 40.0#
39 168.6 88.2 132.4#

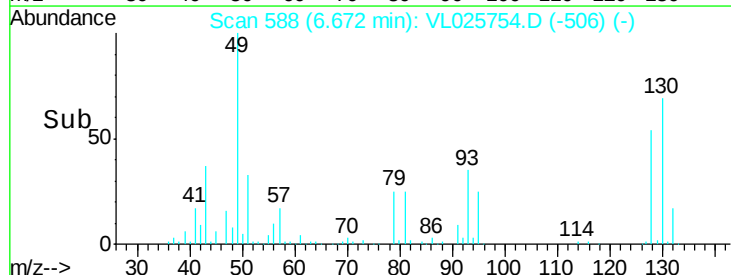
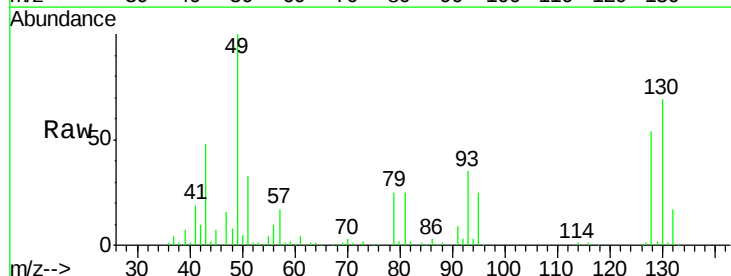
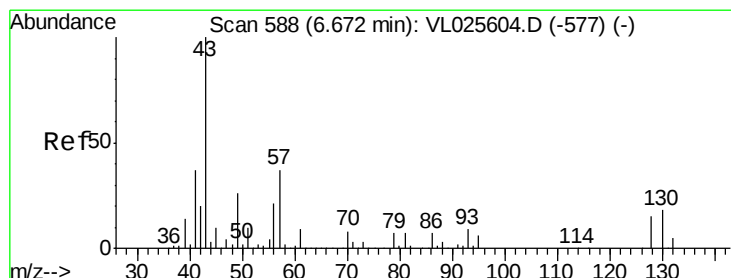
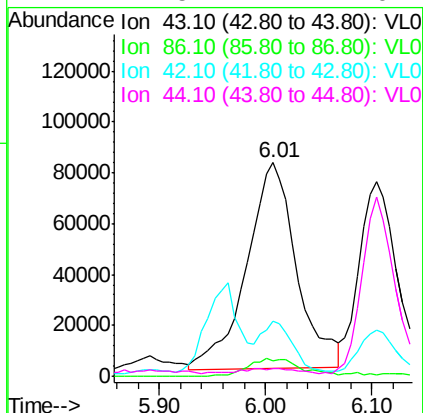




#23
 Vinyl Acetate
 Concen: 1.75 ppbv
 RT: 6.01 min Scan# 479
 Delta R.T. 0.02 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

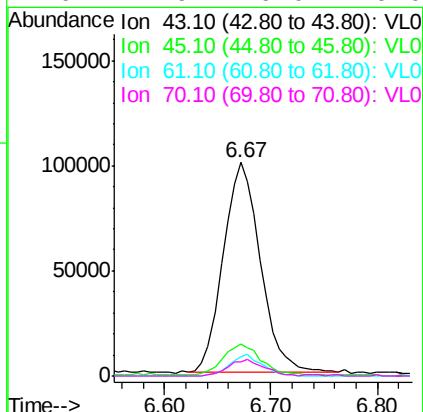
Instrument :
 MSVOA_L
 ClientSampleId :
 PR1

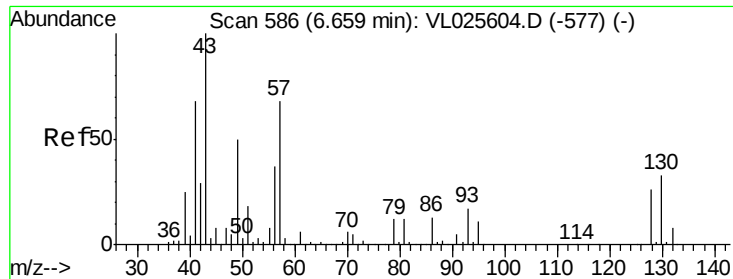
Tot Ion:	43	Resp:	265905
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.7	10.1
42	24.5	9.8	14.6#
44	1.5	4.1	6.1#



#25
 Ethyl Acetate
 Concen: 1.59 ppbv
 RT: 6.67 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

Tgt Ion:	43	Resp:	242310
Ion	Ratio	Lower	Upper
43	100		
45	16.6	7.5	11.3#
61	8.9	6.6	10.0
70	7.9	6.0	9.0

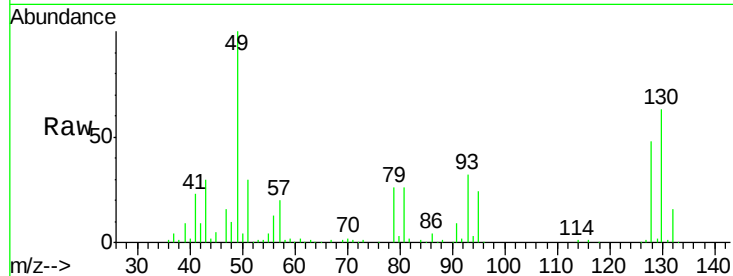




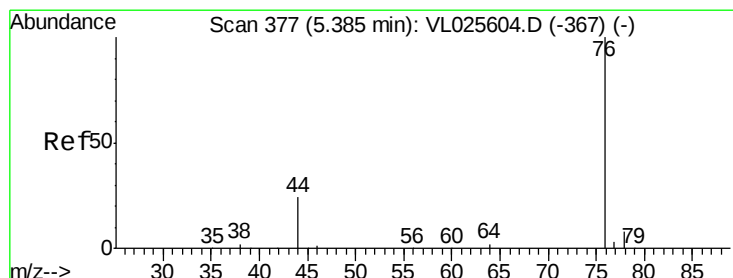
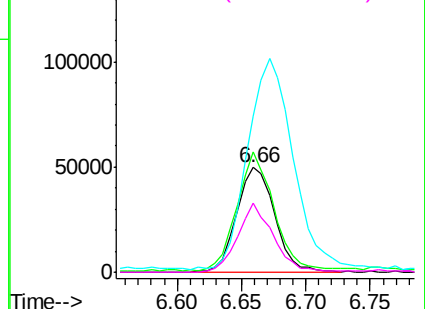
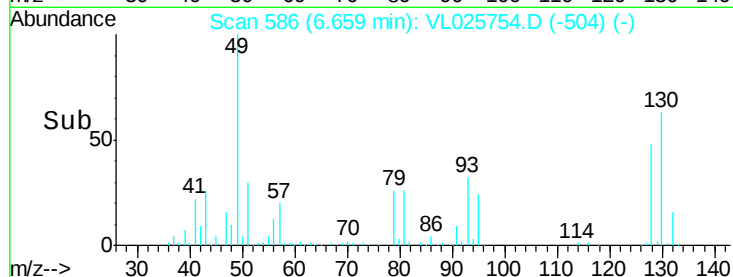
#26
Hexane
Concen: 1.42 ppbv
RT: 6.66 min Scan# 586
Delta R.T. 0.00 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Instrument :
MSVOA_L
ClientSampleId :
PR1

Tot Ion: 57 Resp: 101922
Ion Ratio Lower Upper
57 100
41 112.4 81.4 122.2
43 253.2 171.4 257.2
56 62.2 44.5 66.7

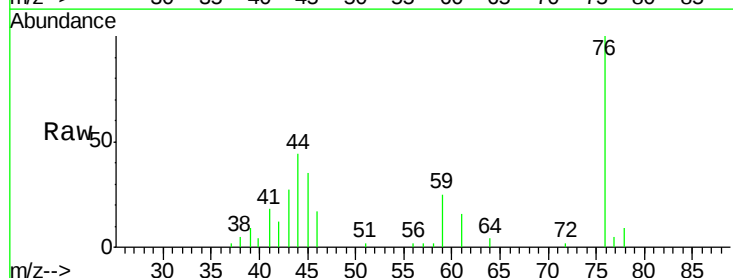


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

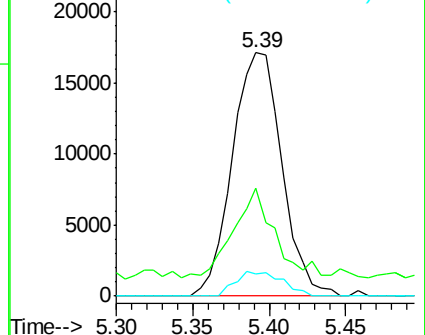
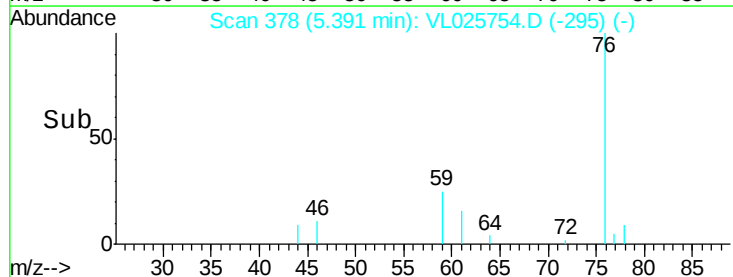


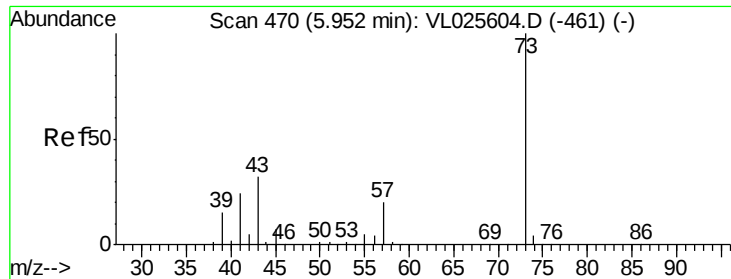
#27
Carbon Disulfide
Concen: 0.33 ppbv
RT: 5.39 min Scan# 378
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 76 Resp: 38460
Ion Ratio Lower Upper
76 100
44 32.3 20.2 30.4#
78 9.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

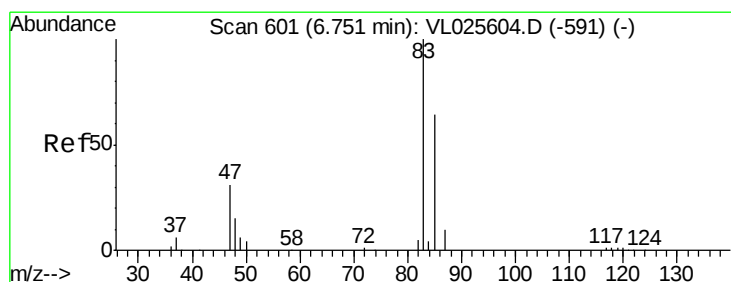
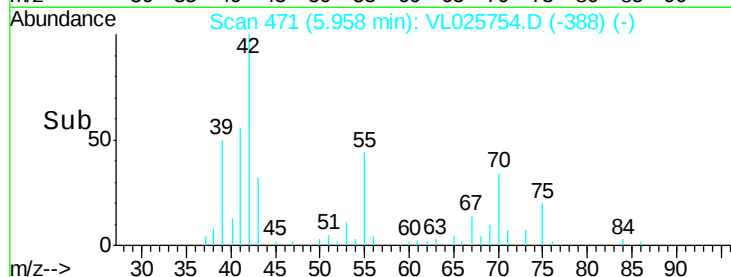
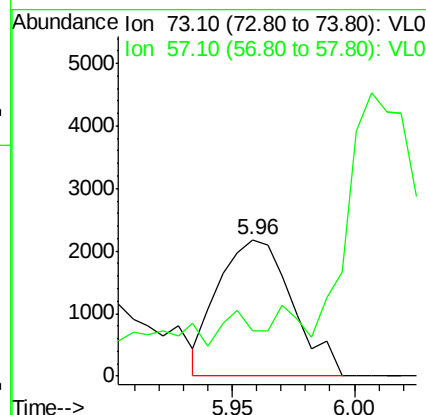
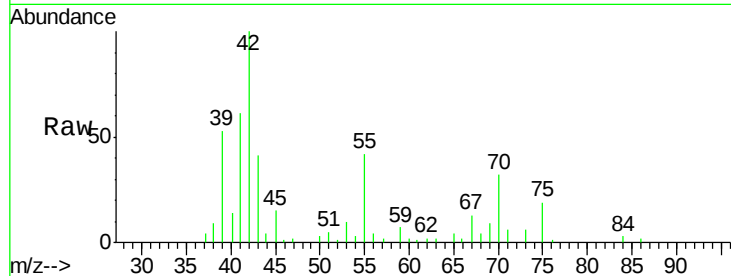




#28
Methvl tert-Butvl Ether
Concen: 0.03 ppbv
RT: 5.96 min Scan# 471
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

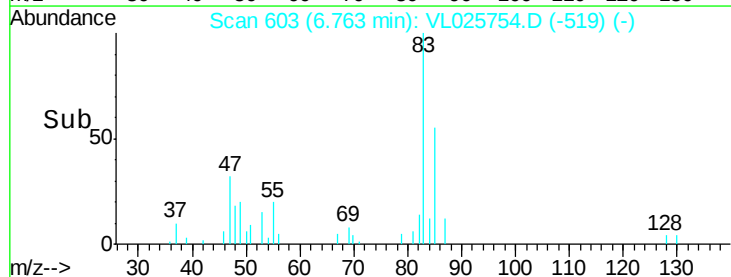
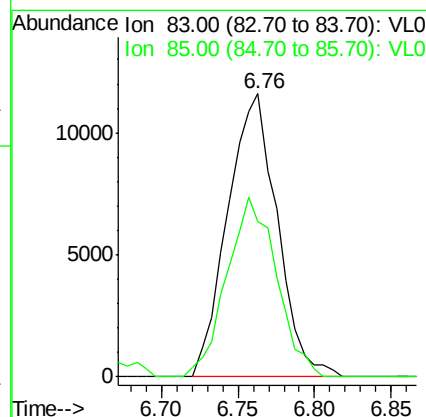
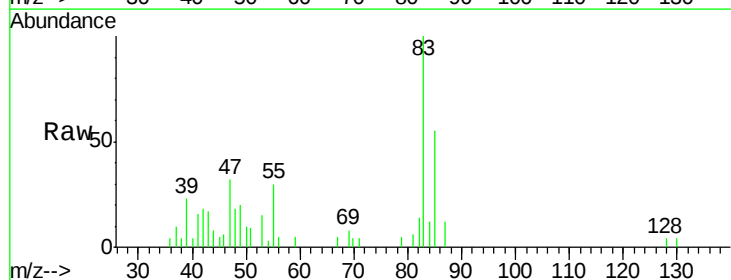
Instrument :
MSVOA_L
ClientSampleId :
PR1

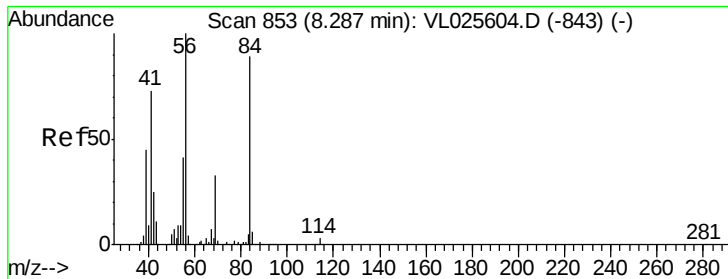
Tot Ion: 73 Resp: 4577
Ion Ratio Lower Upper
73 100
57 206.8 16.0 24.0#



#29
Chloroform
Concen: 0.18 ppbv
RT: 6.76 min Scan# 603
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 83 Resp: 26129
Ion Ratio Lower Upper
83 100
85 55.0 51.6 77.4

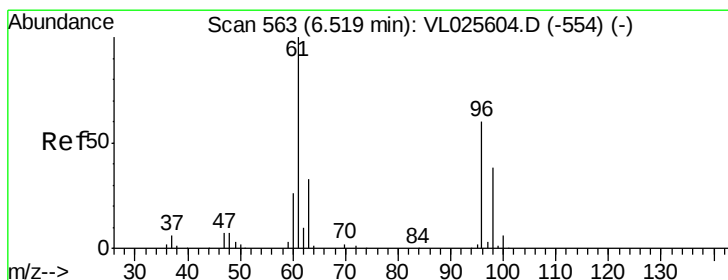
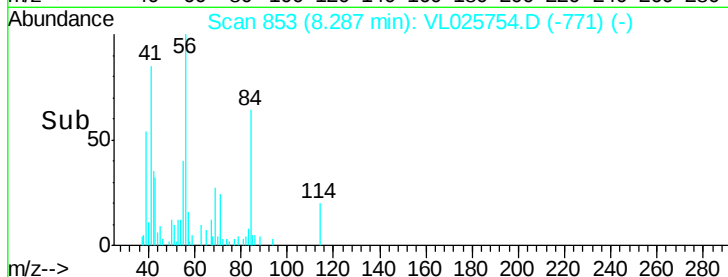
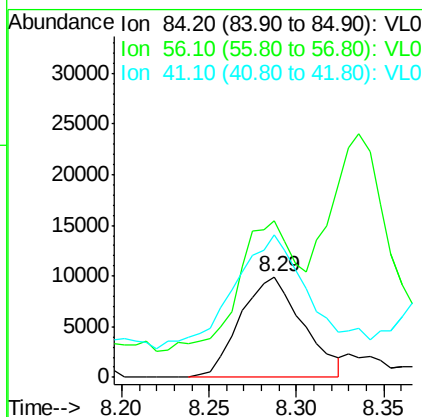
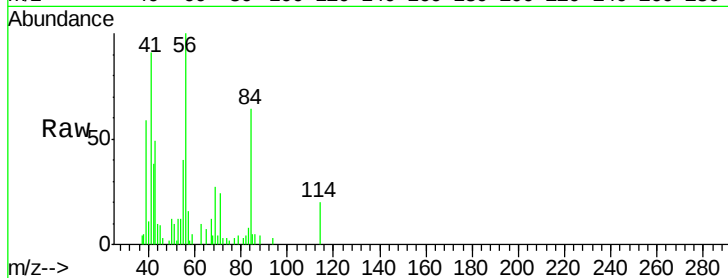




#30
Cvclohexane
Concen: 0.36 ppbv
RT: 8.29 min Scan# 853
Delta R.T. 0.00 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

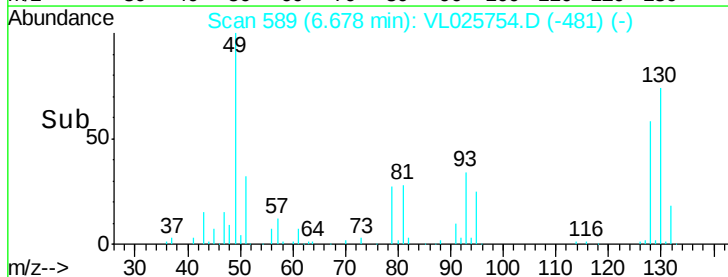
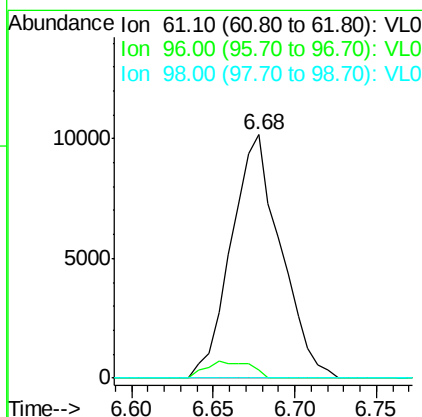
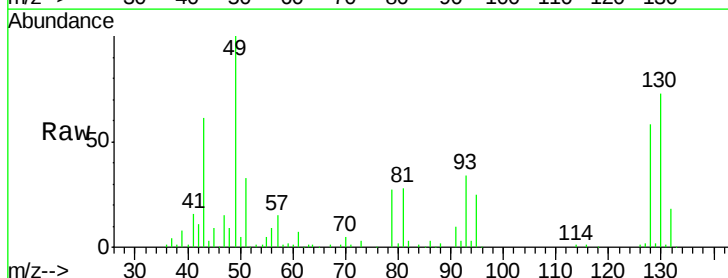
Instrument :
MSVOA_L
ClientSampleId :
PR1

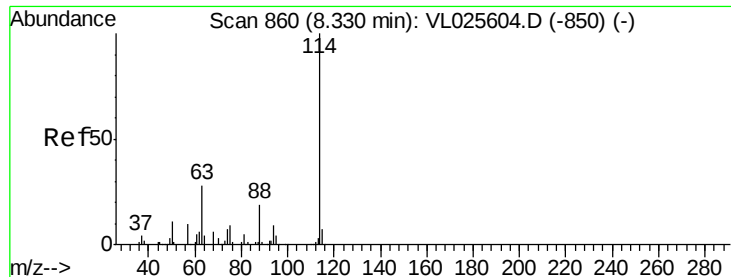
Tot Ion: 84 Resp: 24715
Ion Ratio Lower Upper
84 100
56 0.0 97.5 146.3#
41 134.9 65.4 98.2#



#31
cis-1,2-Dichloroethene
Concen: 0.30 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.16 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 61 Resp: 21457
Ion Ratio Lower Upper
61 100
96 3.6 48.1 72.1#
98 0.0 30.7 46.1#





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.34 min Scan# 861

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

PR1

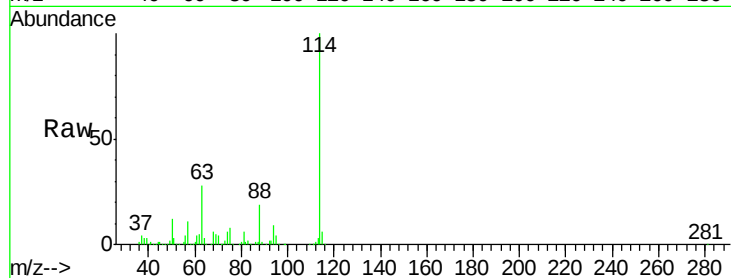
Tot Ion:114 Resp: 1461613

Ion Ratio Lower Upper

114 100

63 27.9 22.4 33.6

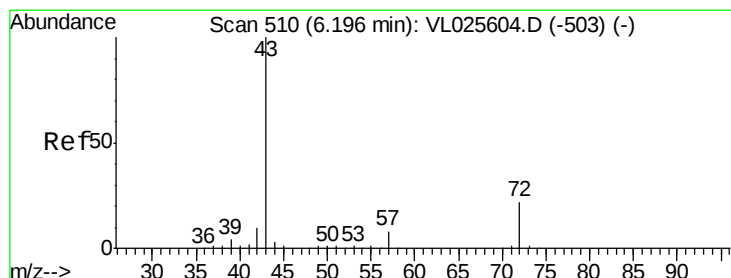
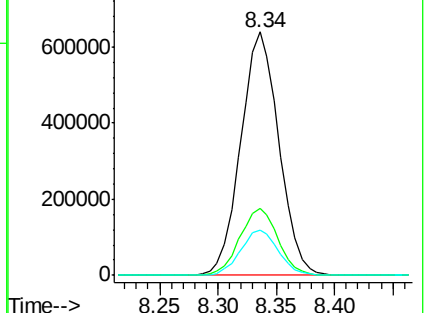
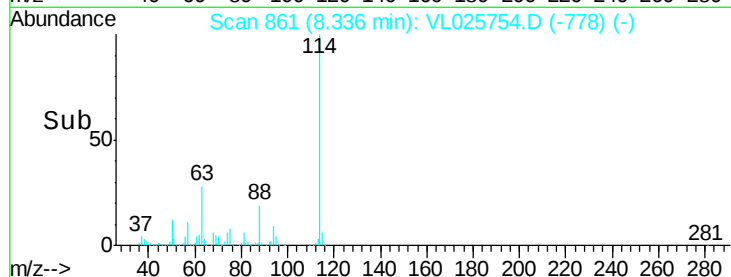
88 18.5 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 7.98 ppbv

RT: 6.20 min Scan# 511

Delta R.T. 0.01 min

Lab File: VL025754.D

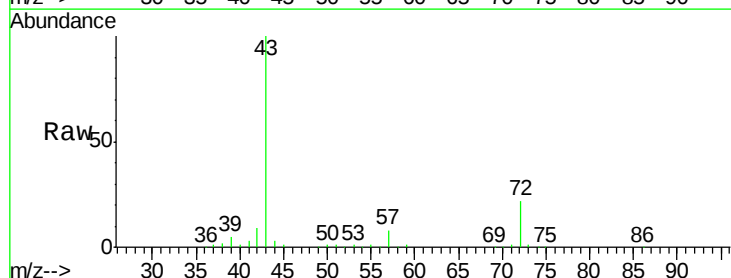
Acq: 27 Jul 2015 15:30

Tgt Ion: 43 Resp: 661904

Ion Ratio Lower Upper

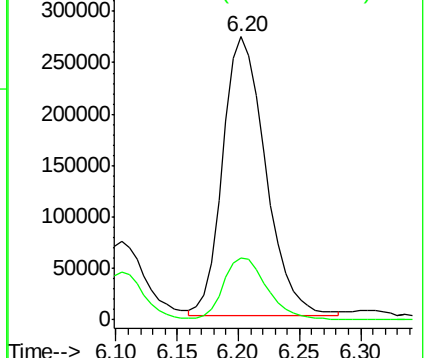
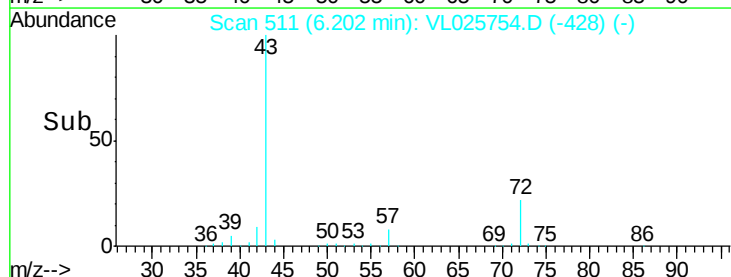
43 100

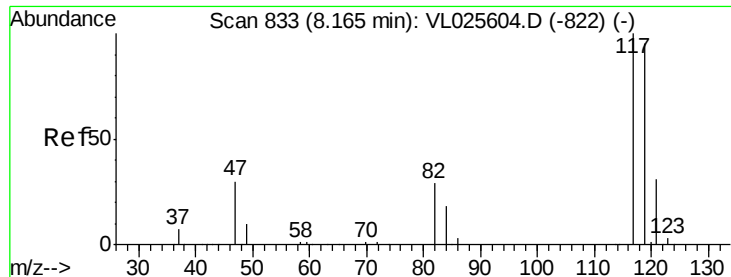
72 23.2 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.15 ppbv

RT: 8.17 min Scan# 833

Delta R.T. 0.00 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

PR1

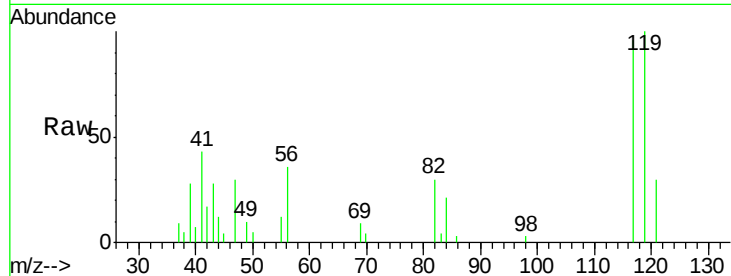
Tot Ion:117 Resp: 22949

Ion Ratio Lower Upper

117 100

119 100.7 75.9 113.9

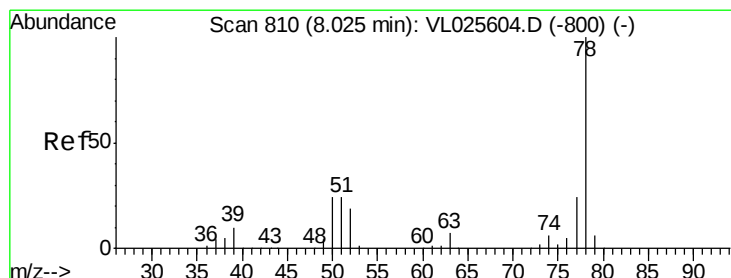
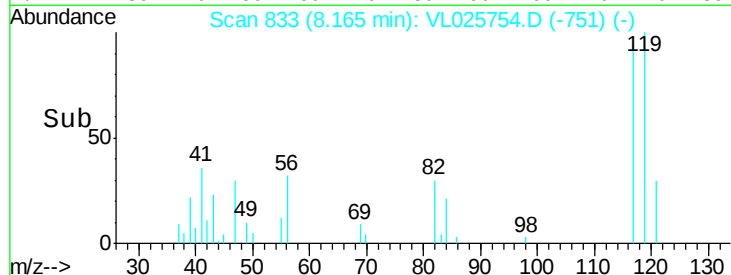
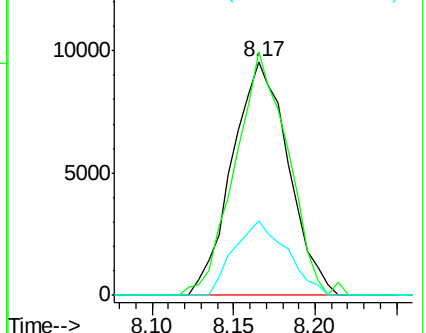
121 31.8 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.26 ppbv

RT: 8.02 min Scan# 810

Delta R.T. 0.00 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

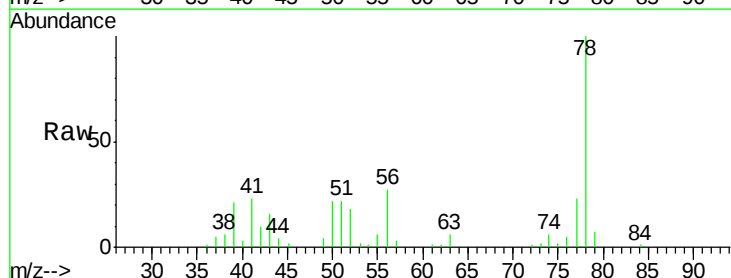
Tgt Ion: 78 Resp: 176036

Ion Ratio Lower Upper

78 100

77 23.0 19.0 28.4

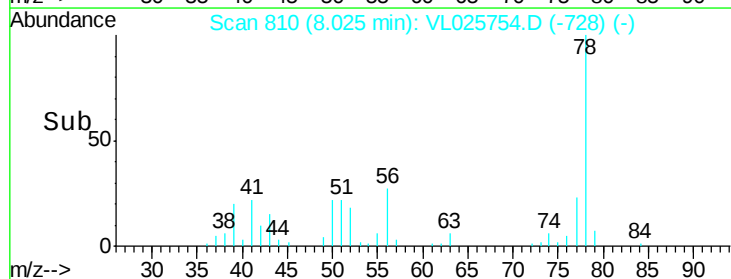
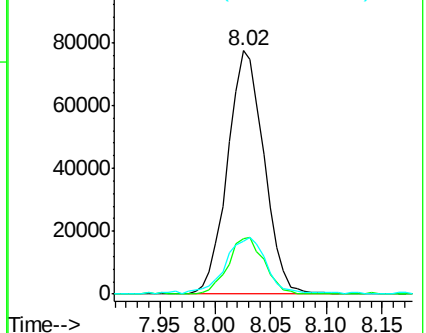
50 21.3 19.2 28.8

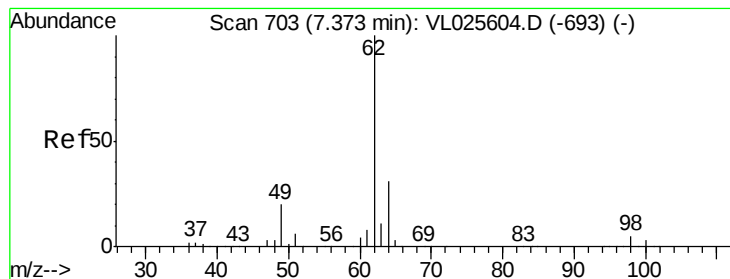


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.30 ppbv

RT: 7.38 min Scan# 705

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

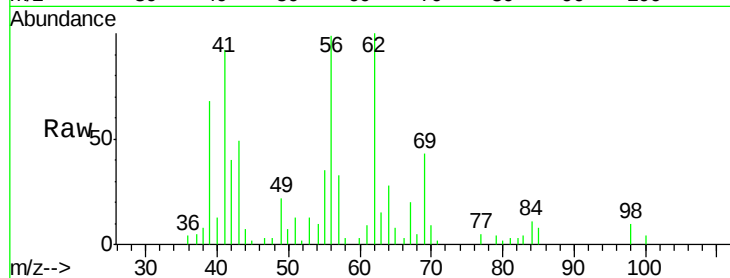
PR1

Tot Ion: 62 Resp: 36124

Ion Ratio Lower Upper

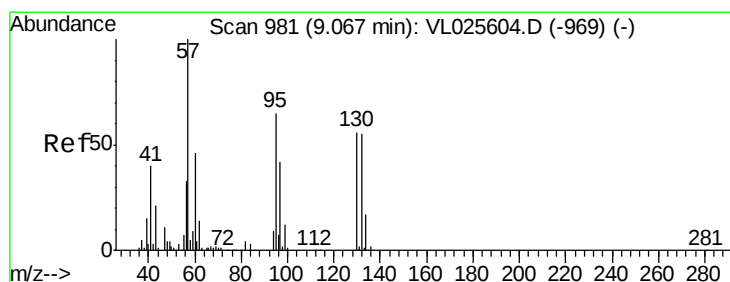
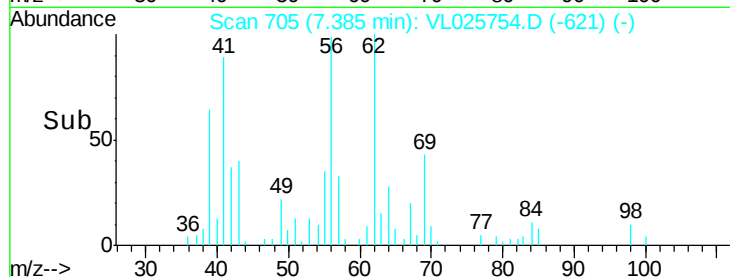
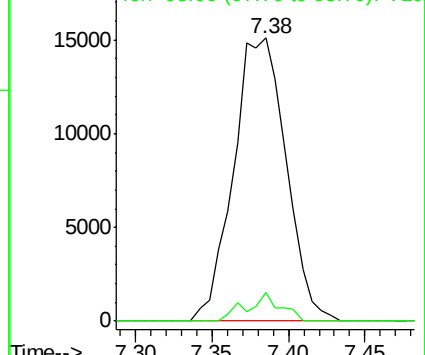
62 100

98 6.3 4.1 6.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.63 ppbv

RT: 9.07 min Scan# 981

Delta R.T. 0.00 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Tgt Ion:130 Resp: 41000

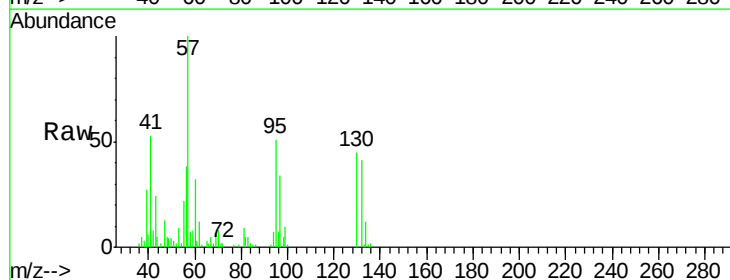
Ion Ratio Lower Upper

130 100

95 111.6 94.2 141.4

132 90.3 78.6 118.0

97 72.8 60.6 90.8

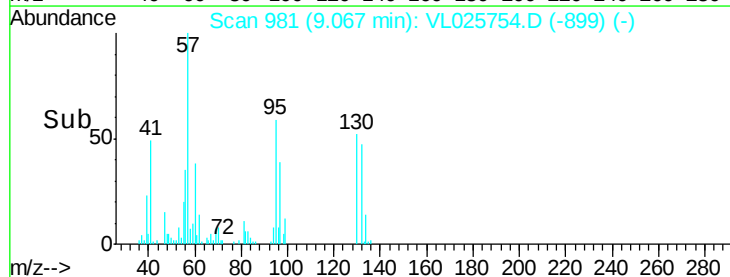
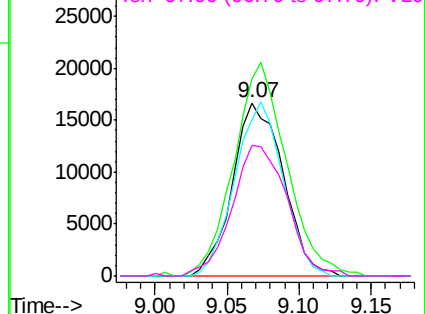


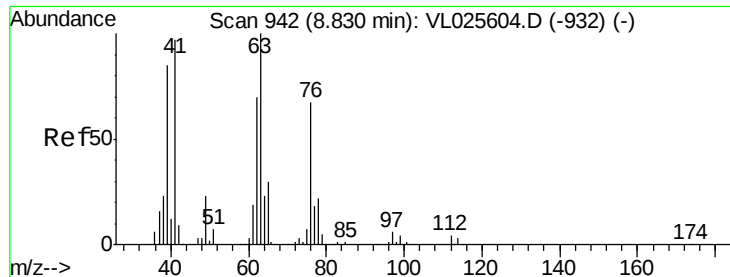
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

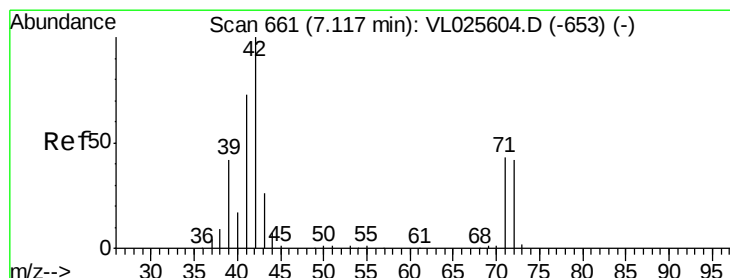
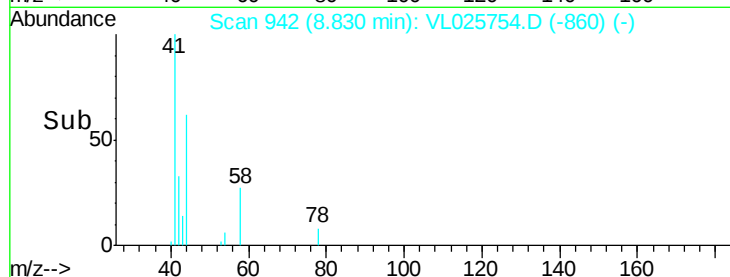
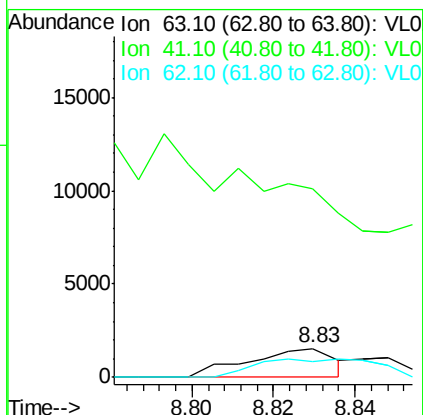
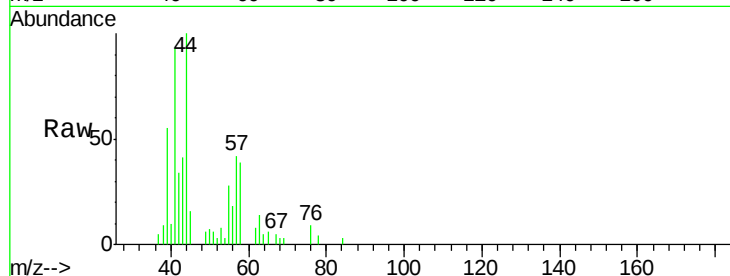




#39
 1,2-Dichloropropane
 Concen: 0.04 ppbv
 RT: 8.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

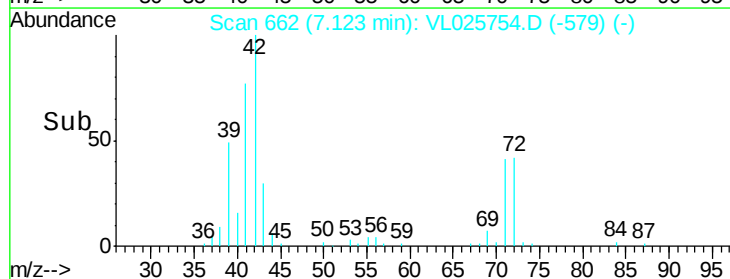
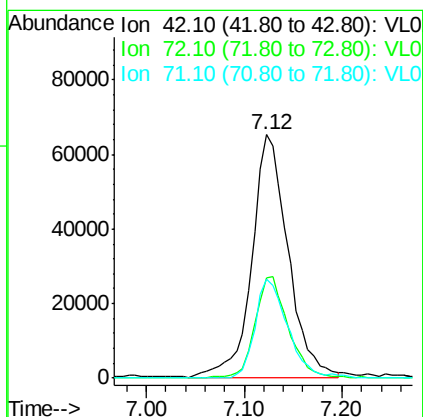
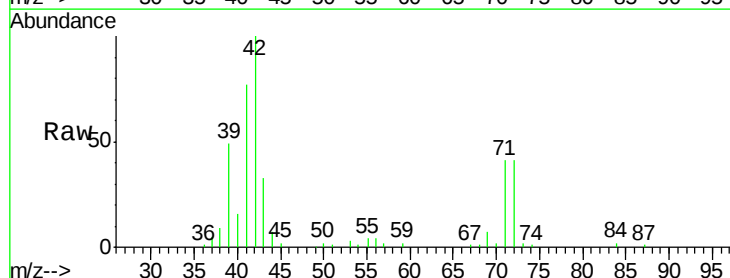
Instrument :
 MSVOA_L
 ClientSampleId :
 PR1

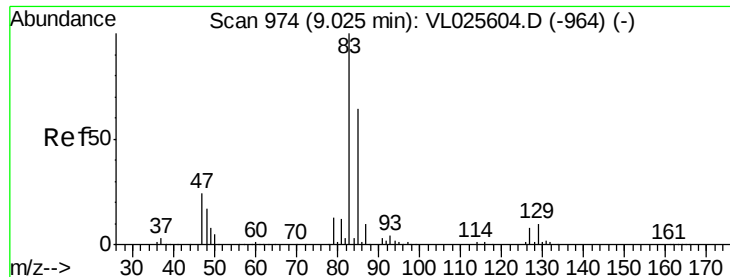
Tot Ion: 63 Resp: 2281
 Ion Ratio Lower Upper
 63 100
 41 63.3 78.0 117.0#
 62 41.1 55.7 83.5#



#41
 Tetrahydrofuran
 Concen: 4.08 ppbv
 RT: 7.12 min Scan# 662
 Delta R.T. 0.01 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

Tgt Ion: 42 Resp: 168955
 Ion Ratio Lower Upper
 42 100
 72 38.1 34.0 51.0
 71 36.6 33.0 49.6





#42

Bromodichloromethane

Concen: 0.10 ppbv

RT: 9.02 min Scan# 973

Delta R.T. -0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

PR1

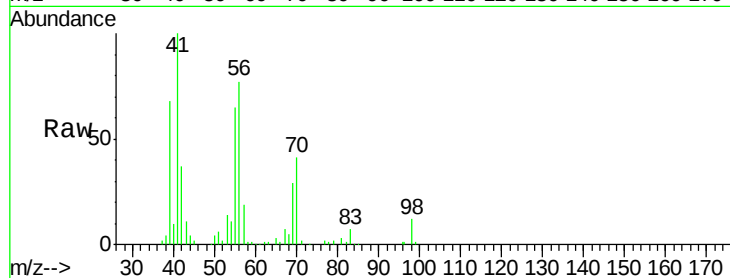
Tot Ion: 83 Resp: 14916

Ion Ratio Lower Upper

83 100

85 6.4 51.3 76.9#

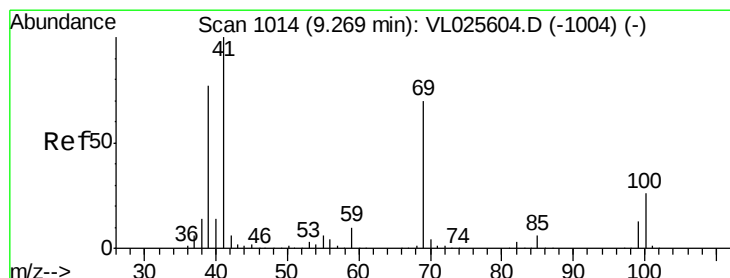
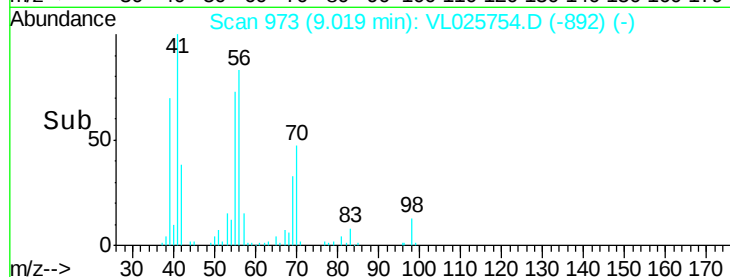
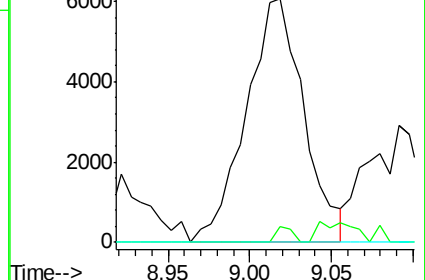
127 0.0 6.0 9.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.17 ppbv

RT: 9.27 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

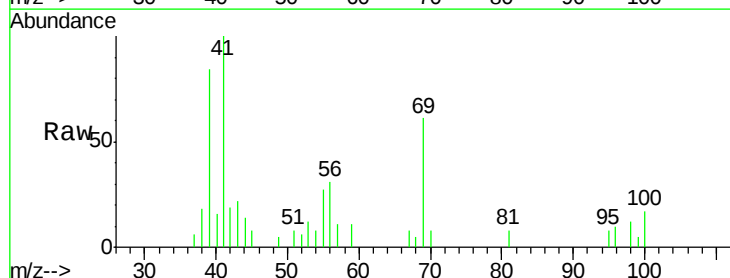
Tgt Ion: 69 Resp: 8935

Ion Ratio Lower Upper

69 100

41 0.0 117.3 175.9#

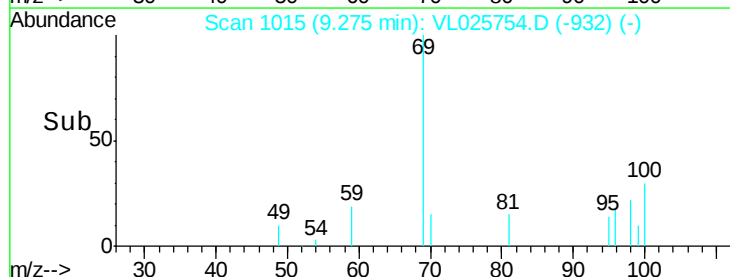
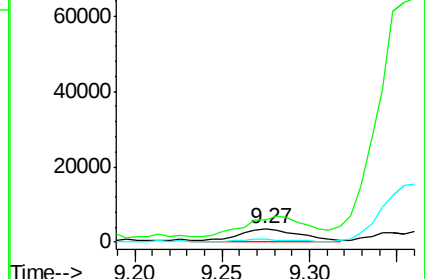
100 19.2 29.0 43.6#

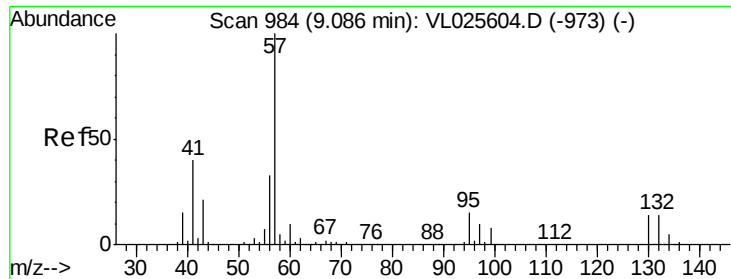


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.83 ppbv

RT: 9.09 min Scan# 984

Delta R.T. 0.00 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

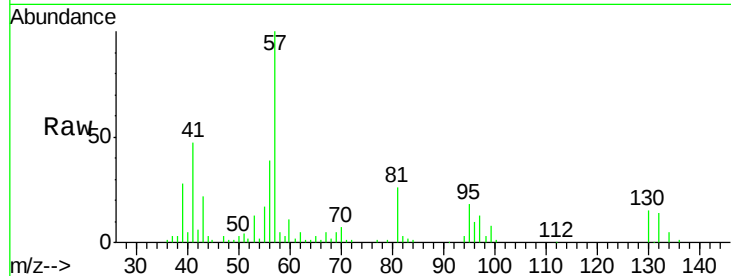
MSVOA_L

ClientSampleId :

PR1

Tot Ion: 57 Resp: 199958

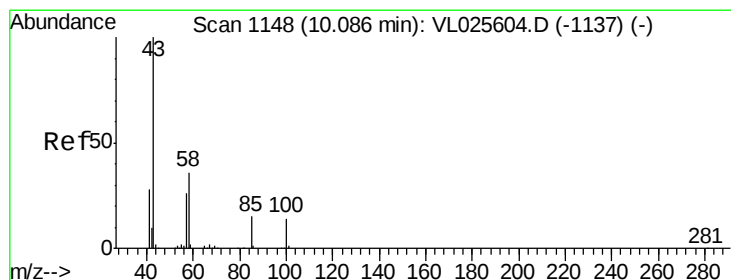
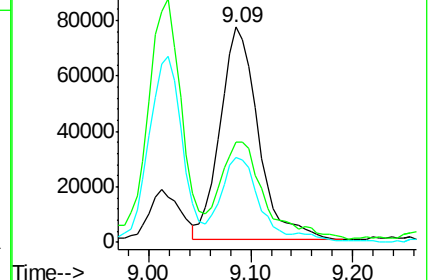
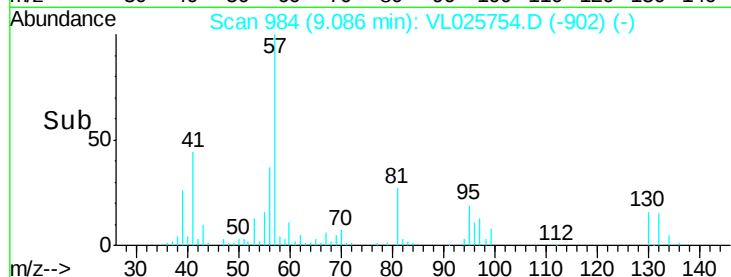
Ion	Ratio	Lower	Upper
57	100		
41	46.4	31.2	46.8
56	36.6	25.4	38.2



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 1.12 ppbv

RT: 10.10 min Scan# 1150

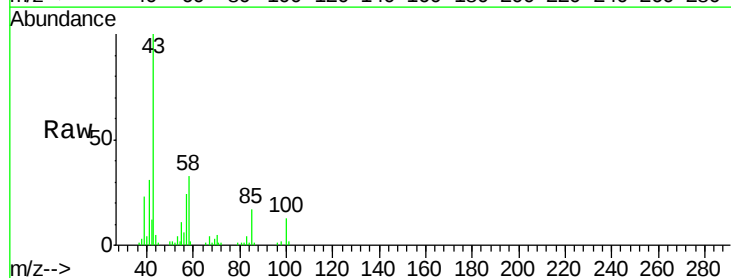
Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

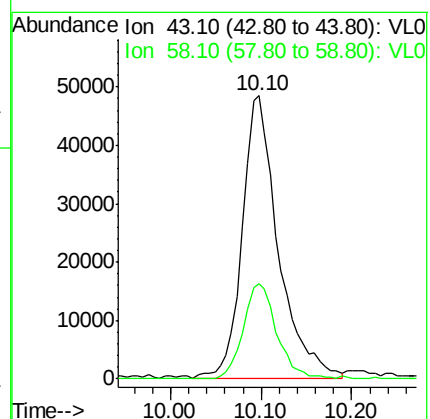
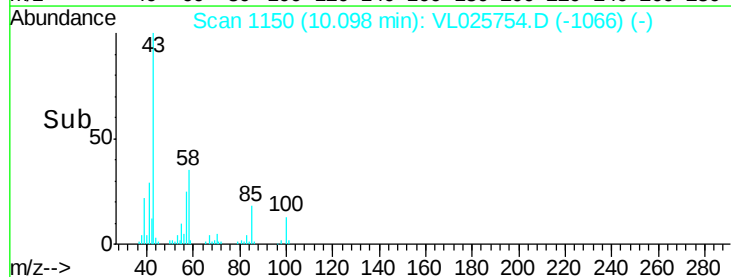
Tgt Ion: 43 Resp: 134132

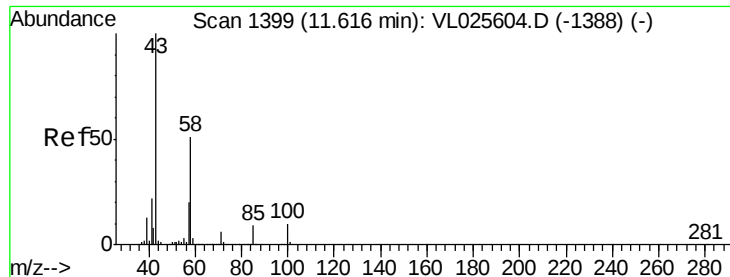
Ion	Ratio	Lower	Upper
43	100		
58	31.4	28.5	42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

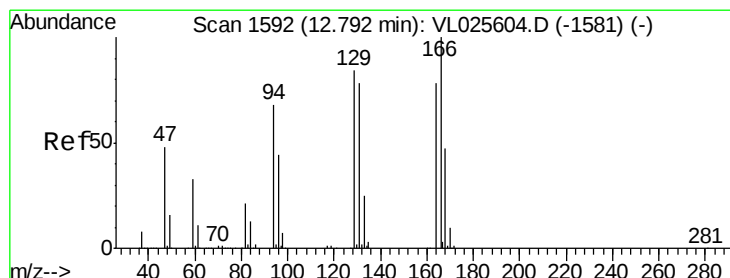
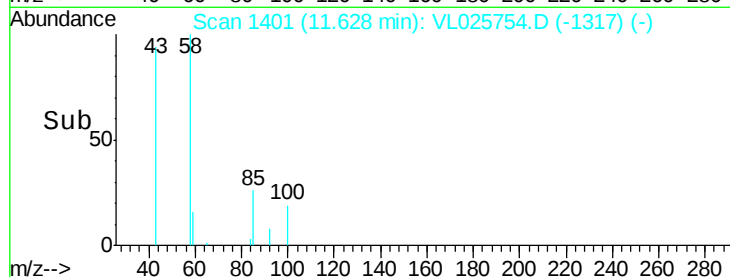
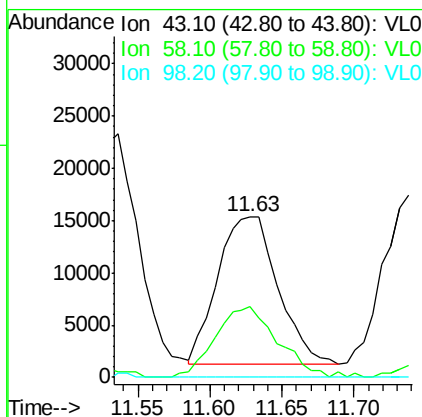
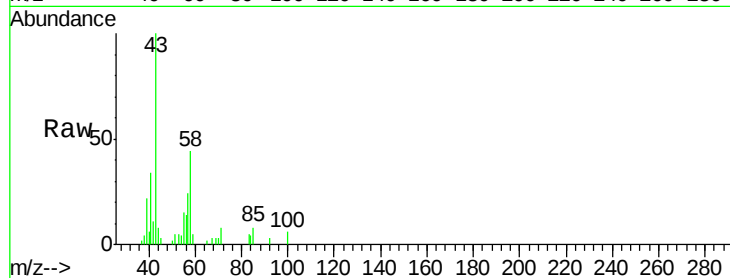




#51
 2-Hexanone
 Concen: 0.38 ppbv
 RT: 11.63 min Scan# 1401
 Delta R.T. 0.01 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

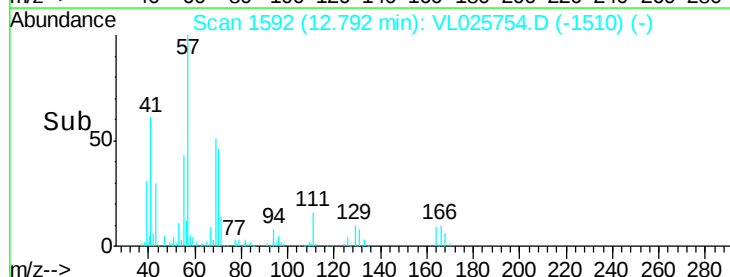
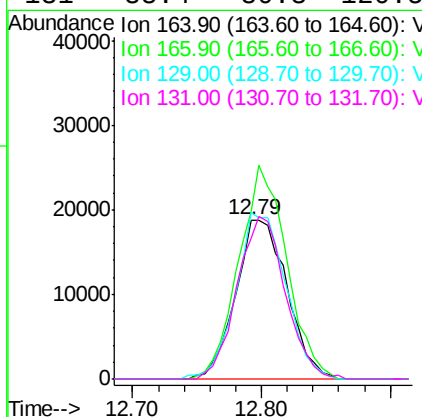
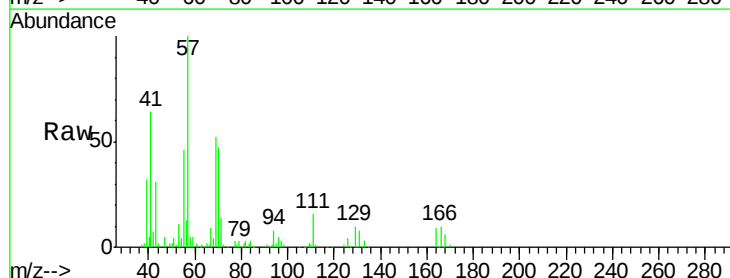
Instrument :
 MSVOA_L
 ClientSampleId :
 PR1

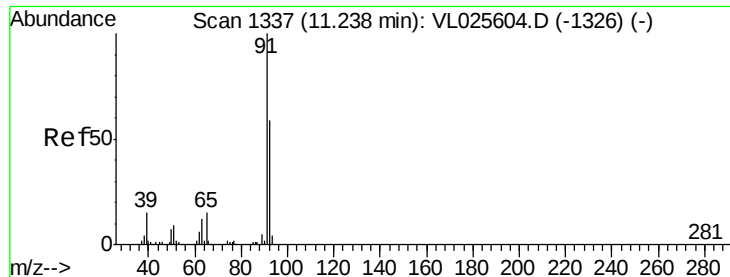
Tot Ion: 43 Resp: 41082
 Ion Ratio Lower Upper
 43 100
 58 50.1 39.0 58.6
 98 0.0 0.2 0.4#



#52
 Tetrachloroethene
 Concen: 0.74 ppbv
 RT: 12.79 min Scan# 1592
 Delta R.T. 0.00 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

Tgt Ion: 164 Resp: 51968
 Ion Ratio Lower Upper
 164 100
 166 105.1 102.3 153.5
 129 104.9 86.2 129.4
 131 88.4 80.3 120.5





#53

Toluene

Concen: 15.71 ppbv

RT: 11.24 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

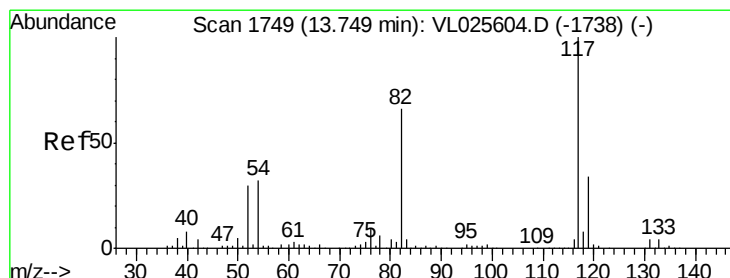
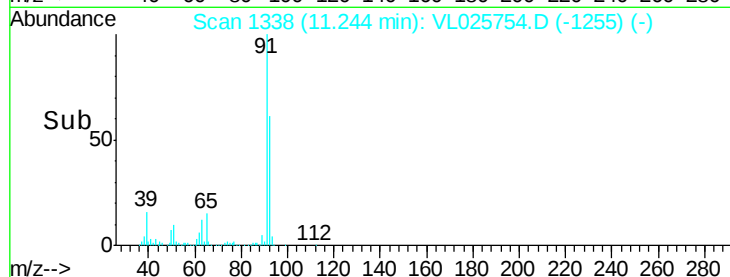
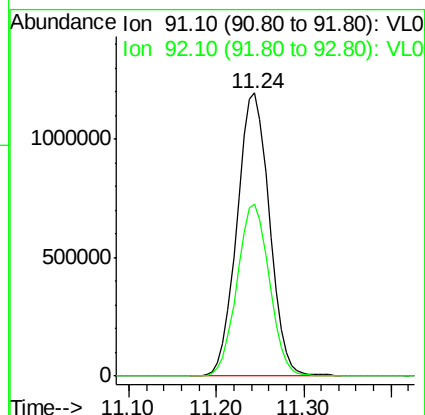
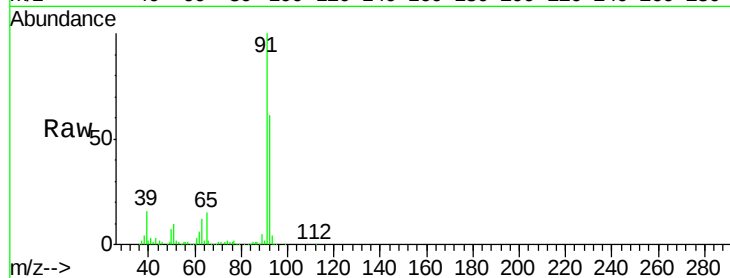
PR1

Tot Ion: 91 Resp: 3090744

Ion Ratio Lower Upper

91 100

92 60.9 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.76 min Scan# 1750

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

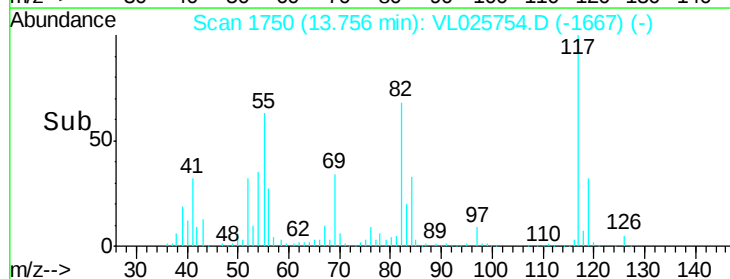
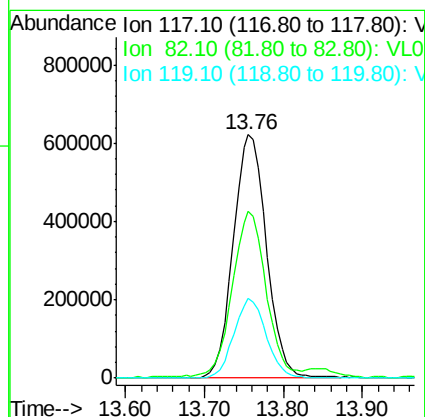
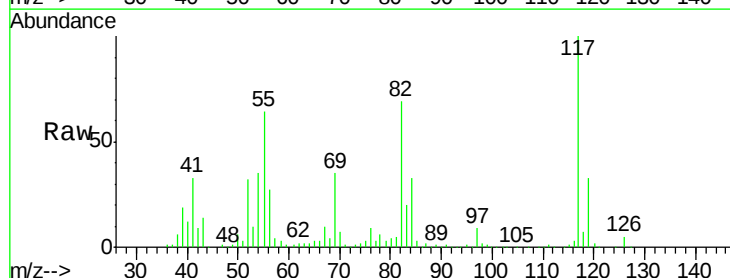
Tgt Ion: 117 Resp: 1824196

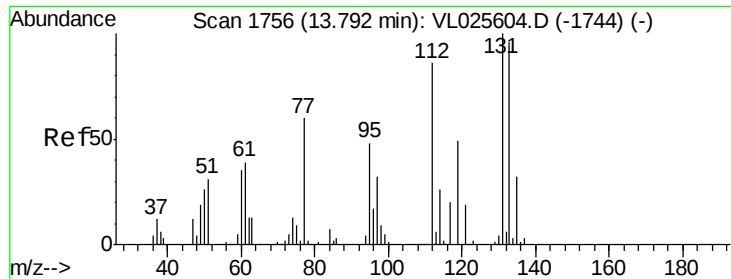
Ion Ratio Lower Upper

117 100

82 75.3 50.5 75.7

119 32.1 45.1 67.7#





#56

1,1,1,2-Tetrachloroethane

Concen: 0.03 ppbv

RT: 13.94 min Scan# 1781

Delta R.T. 0.15 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

PR1

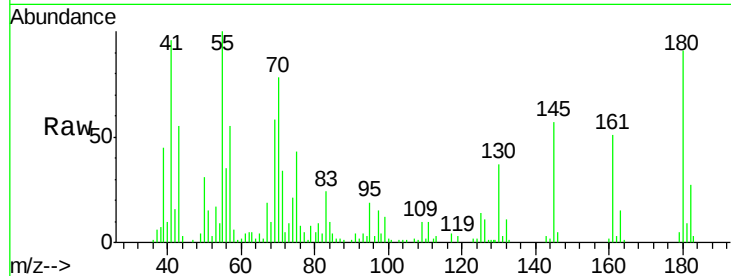
Tot Ion:131 Resp: 3233

Ion Ratio Lower Upper

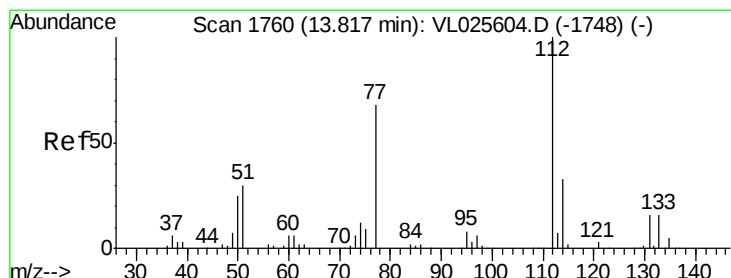
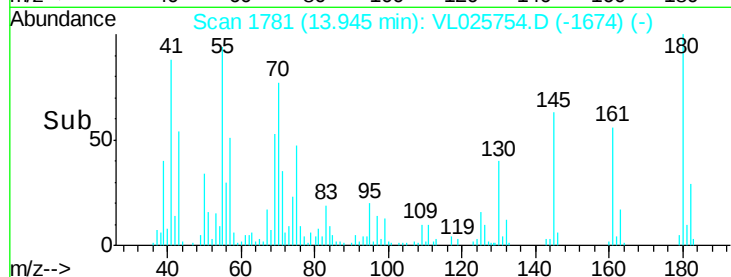
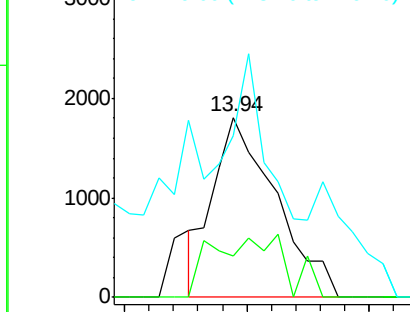
131 100

133 40.3 76.9 115.3#

119 18105.4 97.8 146.8#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.18 ppbv

RT: 13.85 min Scan# 1765

Delta R.T. 0.03 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

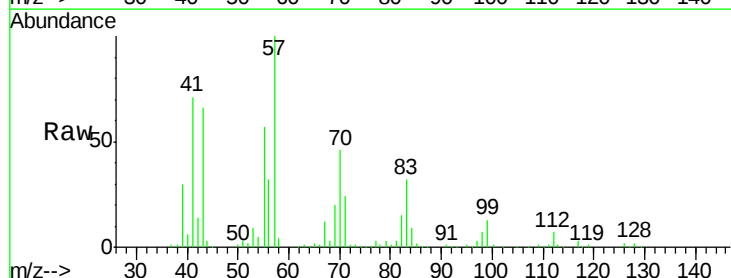
Tgt Ion:112 Resp: 34402

Ion Ratio Lower Upper

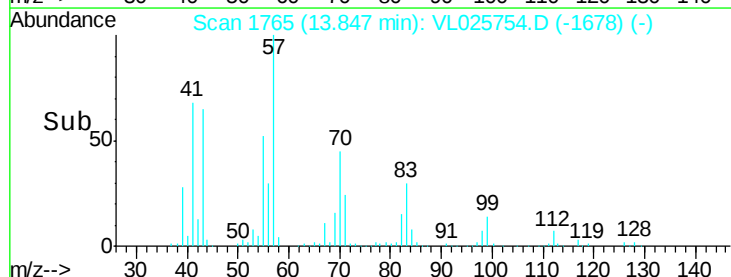
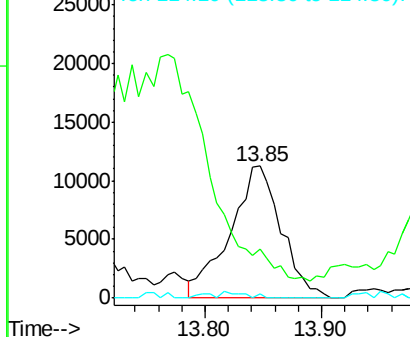
112 100

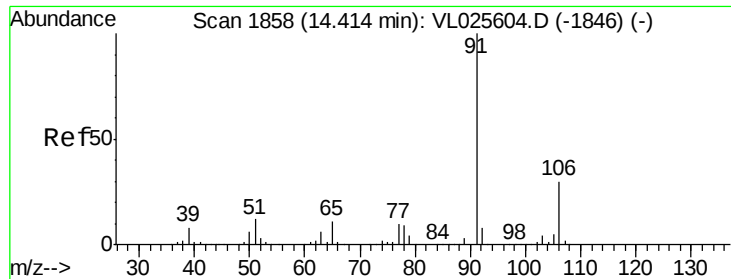
77 12.5 55.2 82.8#

114 3.2 29.4 36.0#



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): V
Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 3.05 ppbv

RT: 14.43 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

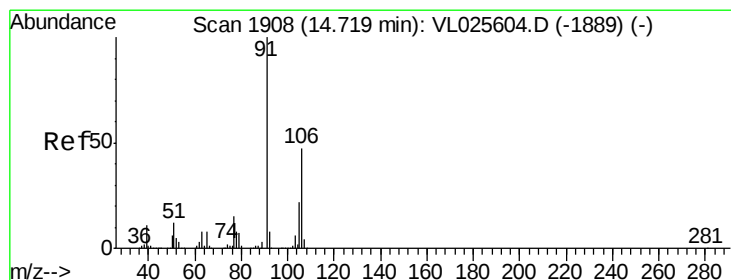
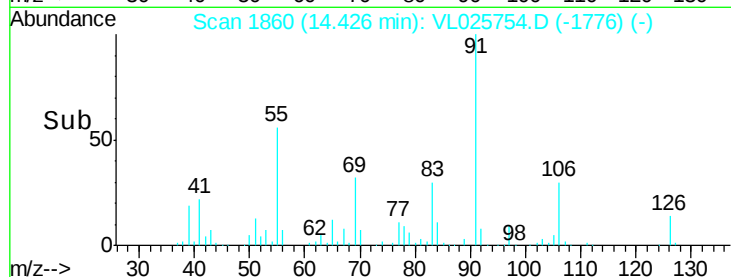
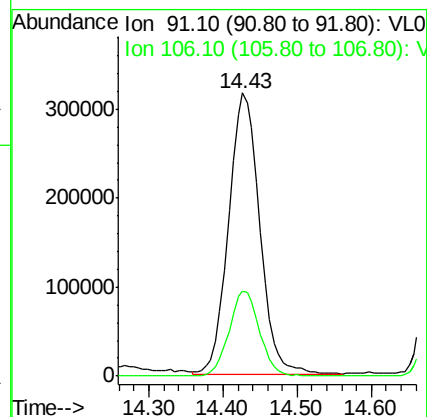
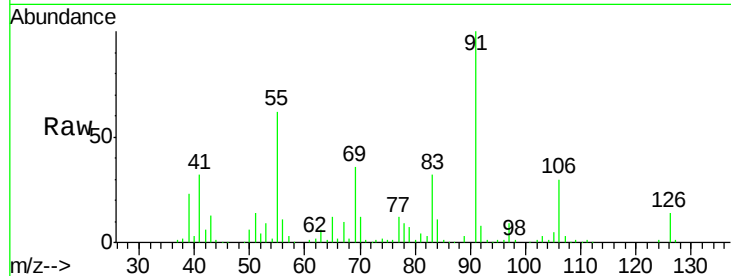
PR1

Tot Ion: 91 Resp: 919352

Ion Ratio Lower Upper

91 100

106 30.2 24.2 36.2



#59

m/p-Xylene

Concen: 9.53 ppbv

RT: 14.71 min Scan# 1906

Delta R.T. -0.01 min

Lab File: VL025754.D

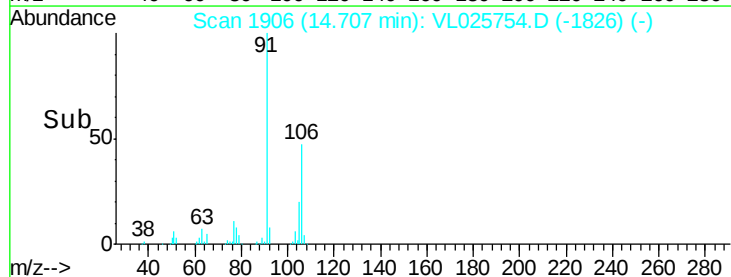
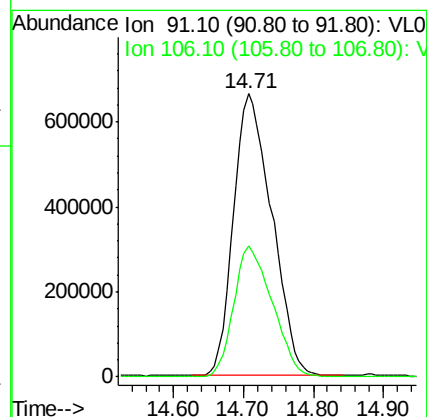
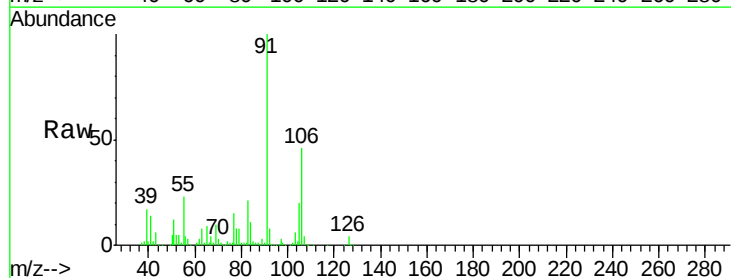
Acq: 27 Jul 2015 15:30

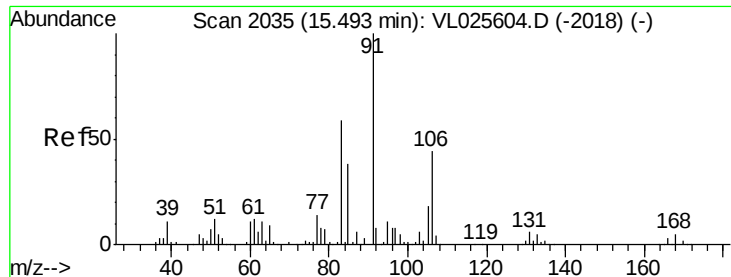
Tgt Ion: 91 Resp: 2524282

Ion Ratio Lower Upper

91 100

106 46.9 37.9 56.9

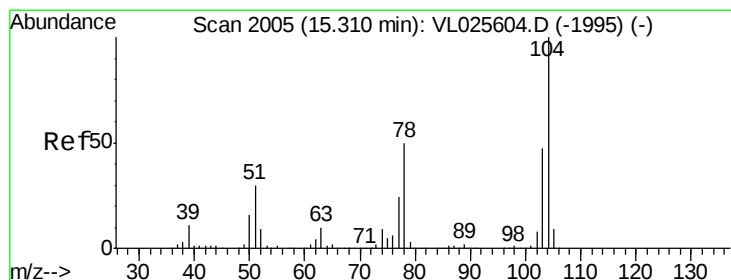
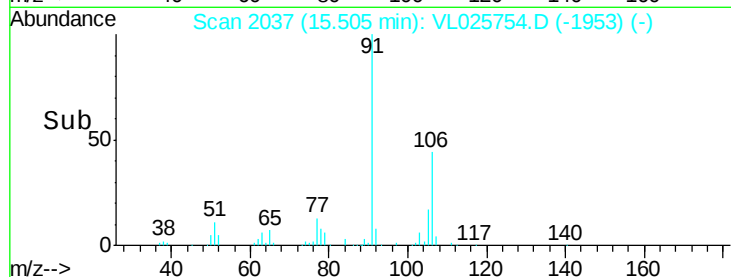
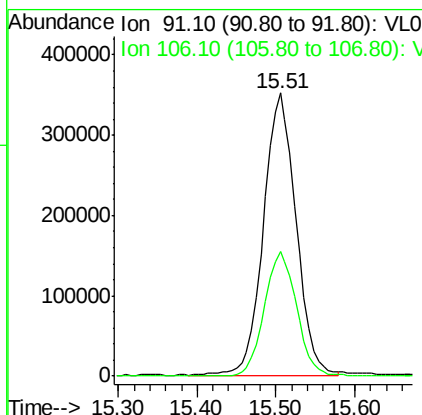
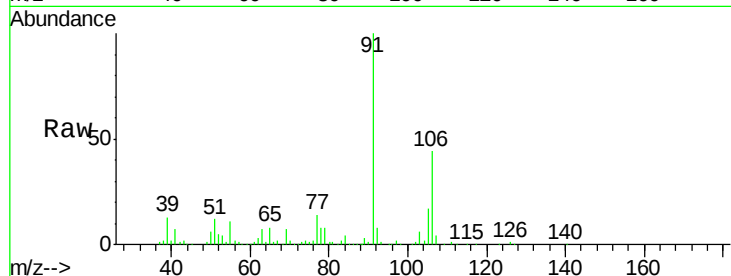




#60
o-Xylene
Concen: 3.52 ppbv
RT: 15.51 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

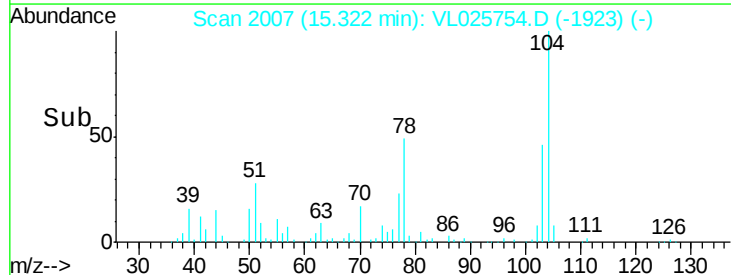
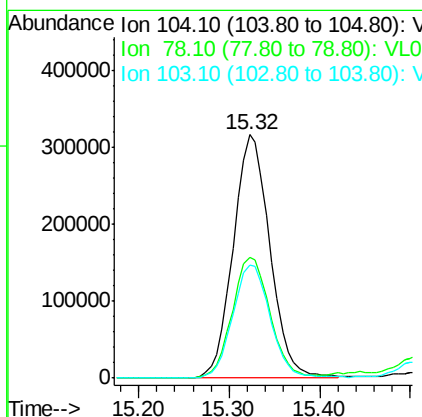
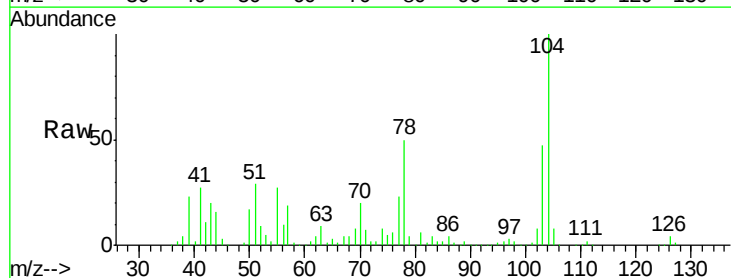
Instrument :
MSVOA_L
ClientSampleId :
PR1

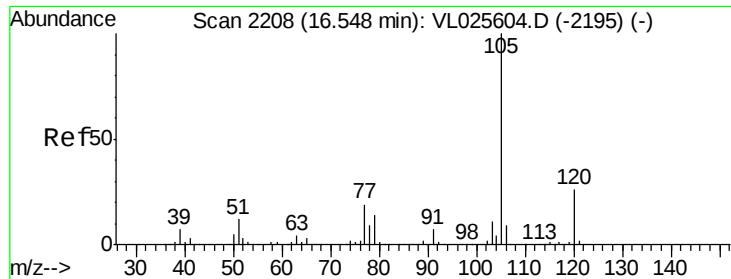
Tot Ion: 91 Resp: 1003432
Ion Ratio Lower Upper
91 100
106 44.4 22.1 66.1



#61
Styrene
Concen: 8.91 ppbv
RT: 15.32 min Scan# 2007
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 104 Resp: 889863
Ion Ratio Lower Upper
104 100
78 51.5 40.2 60.4
103 47.6 37.4 56.2





#62

Isopropylbenzene

Concen: 2.49 ppbv

RT: 16.56 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

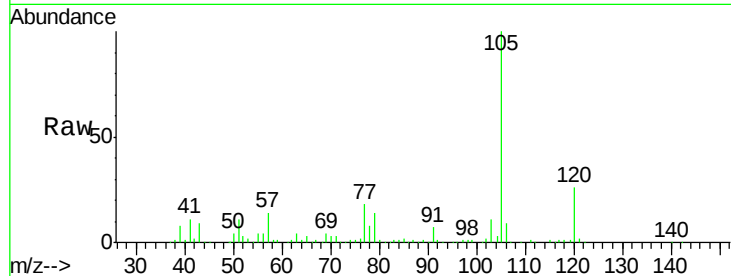
PR1

Tot Ion:105 Resp: 927444

Ion Ratio Lower Upper

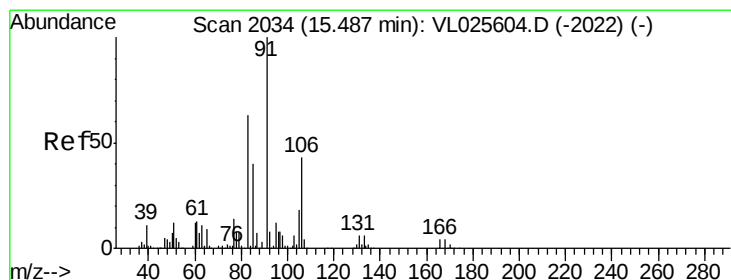
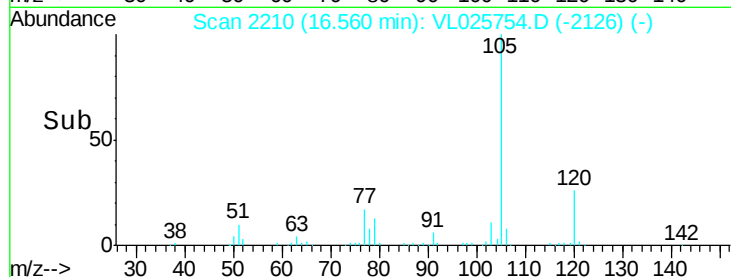
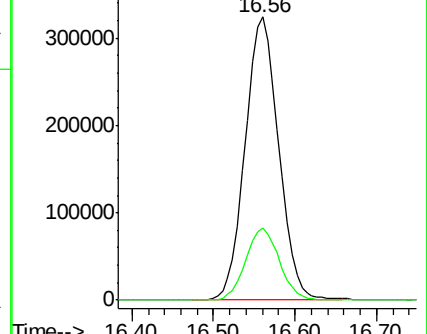
105 100

120 25.5 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.05 ppbv

RT: 15.49 min Scan# 2035

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

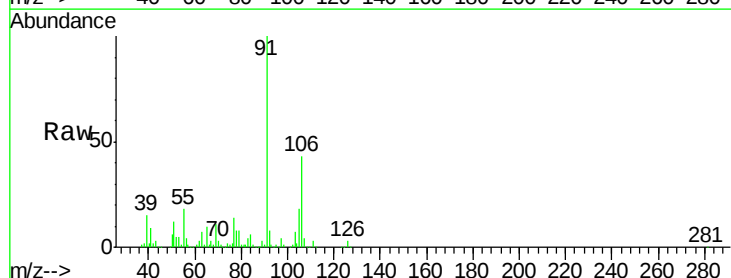
Tgt Ion: 83 Resp: 9076

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

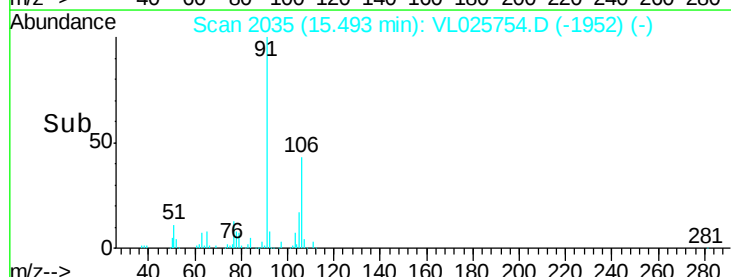
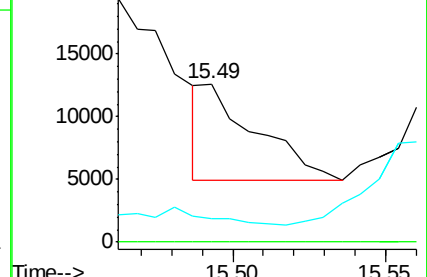
85 66.6 32.4 97.2

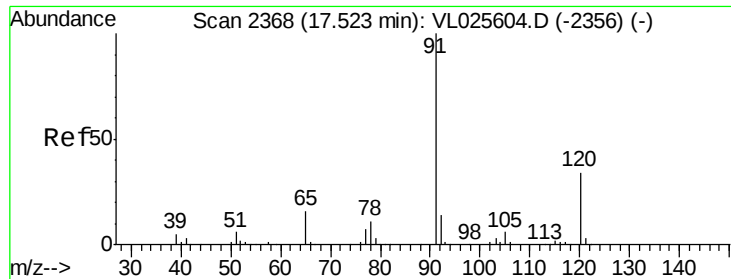


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 1.44 ppbv

RT: 17.54 min Scan# 2371

Delta R.T. 0.02 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampled :

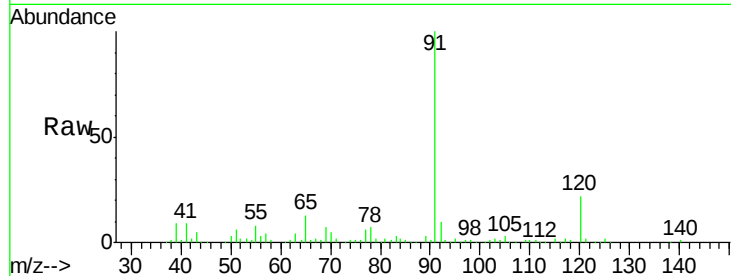
PR1

Tot Ion:120 Resp: 145582

Ion Ratio Lower Upper

120 100

91 482.0 370.5 555.7



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

250000

200000

150000

100000

50000

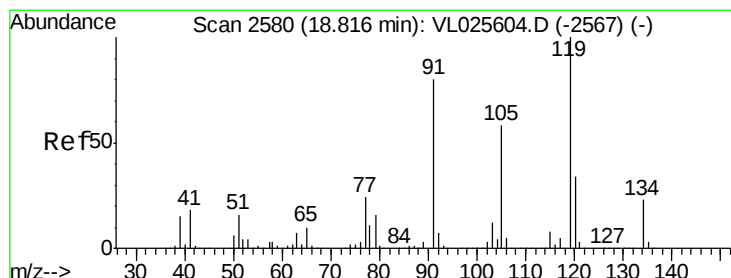
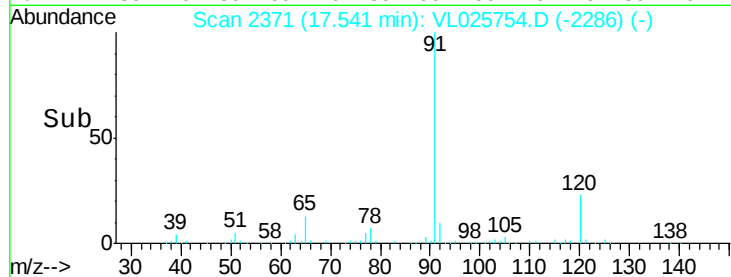
0

17.54

17.50

17.60

Time-->



#65

tert-Butylbenzene

Concen: 0.62 ppbv

RT: 18.85 min Scan# 2585

Delta R.T. 0.03 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

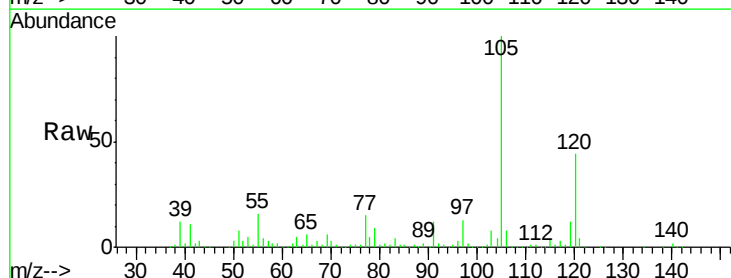
Tgt Ion:119 Resp: 225843

Ion Ratio Lower Upper

119 100

91 121.6 64.5 96.7#

134 9.1 17.4 26.0#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

100000

80000

60000

40000

20000

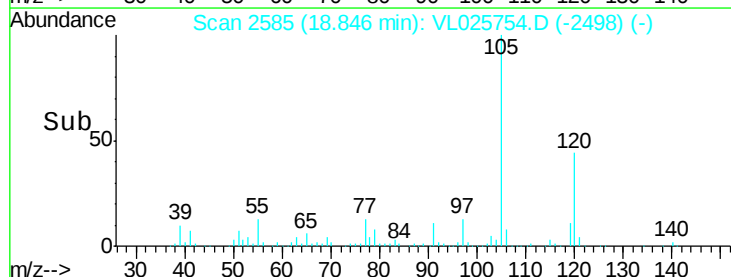
0

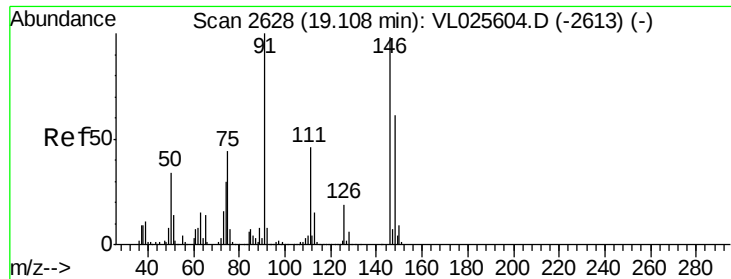
18.85

18.80

18.90

Time-->

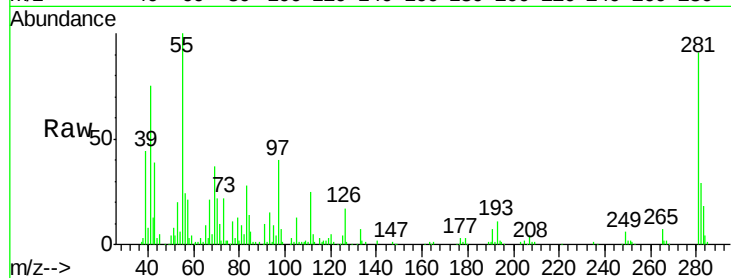




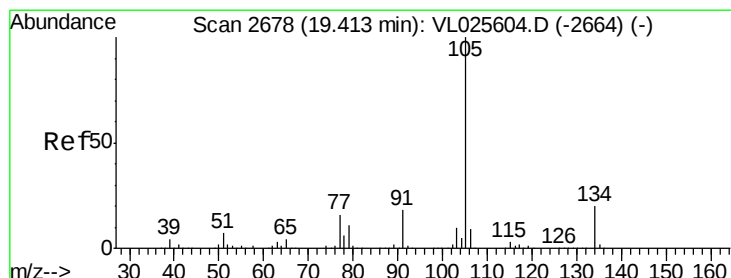
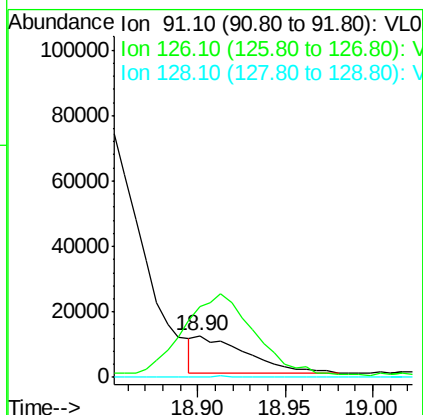
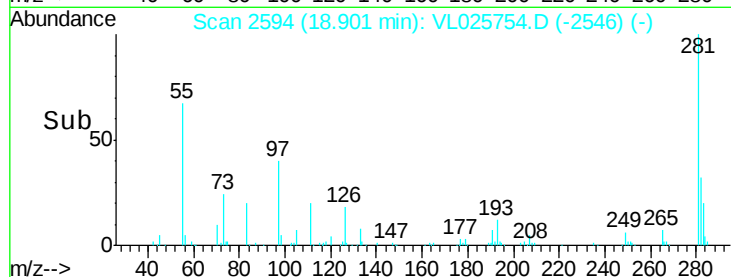
#66
Benzyl Chloride
Concen: 0.17 ppbv
RT: 18.90 min Scan# 2594
Delta R.T. -0.21 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Instrument :
MSVOA_L
ClientSampleId :
PR1

Tot Ion: 91 Resp: 23042
Ion Ratio Lower Upper
91 100
126 327.4 14.5 21.7#
128 1.5 4.6 7.0#

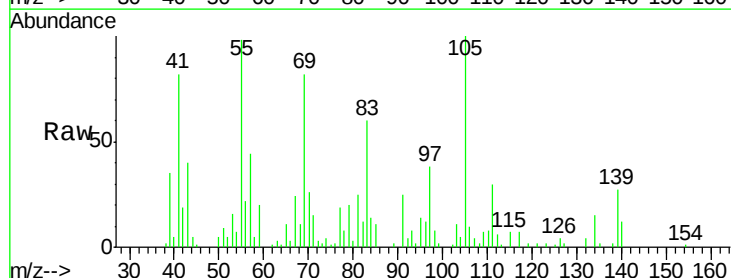


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

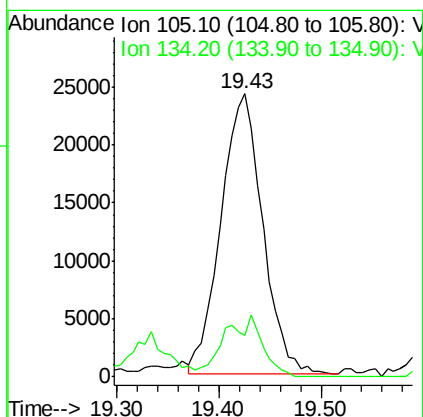
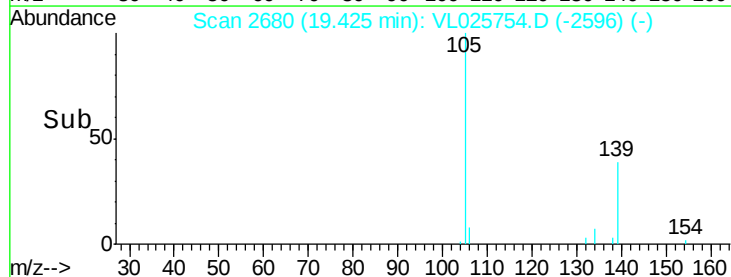


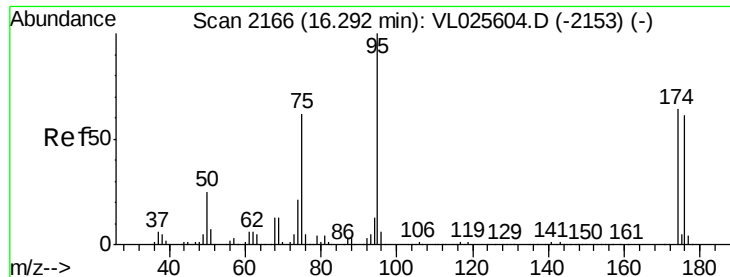
#67
sec-Butylbenzene
Concen: 0.13 ppbv
RT: 19.43 min Scan# 2680
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 105 Resp: 68131
Ion Ratio Lower Upper
105 100
134 20.3 15.4 23.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.10 ppbv

RT: 16.30 min Scan# 2167

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampled :

PR1

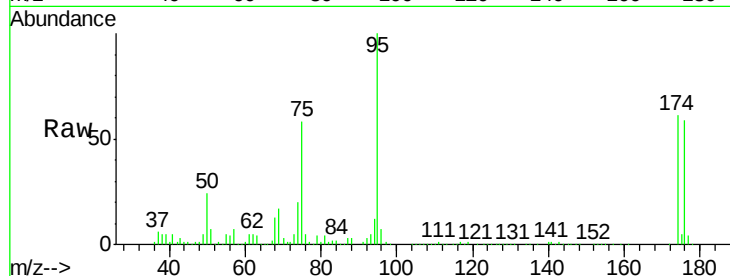
Tot Ion: 95 Resp: 1554601

Ion Ratio Lower Upper

95 100

174 62.6 52.0 78.0

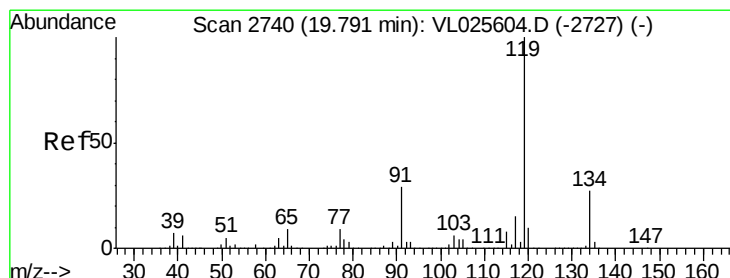
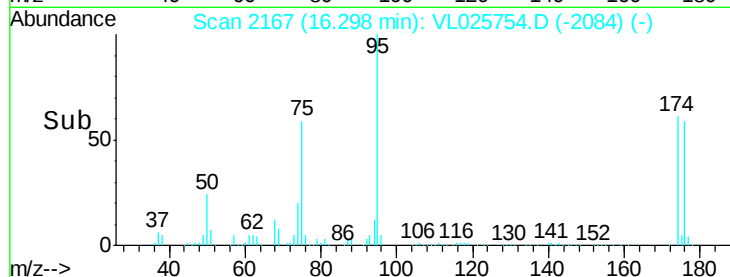
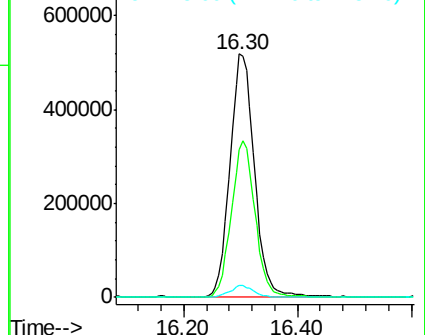
175 4.7 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 1.33 ppbv

RT: 19.80 min Scan# 2742

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

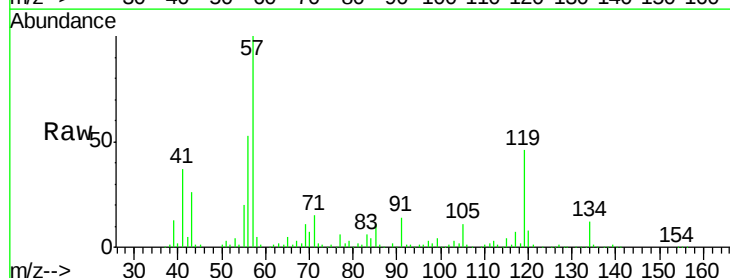
Tgt Ion: 119 Resp: 562930

Ion Ratio Lower Upper

119 100

134 23.9 20.7 31.1

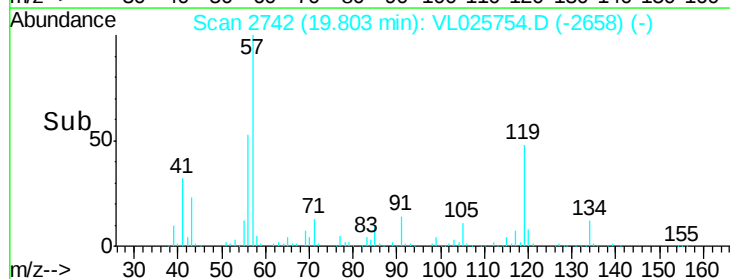
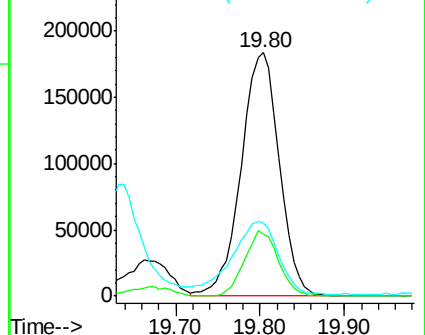
91 36.6 22.6 34.0#

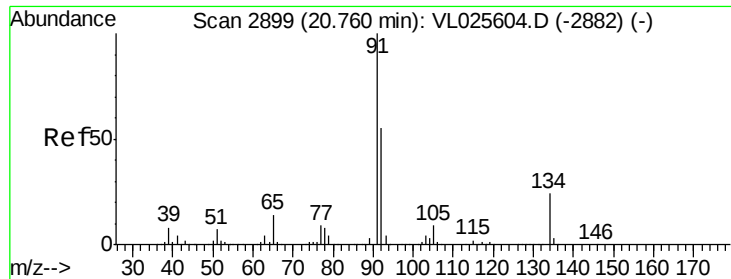


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

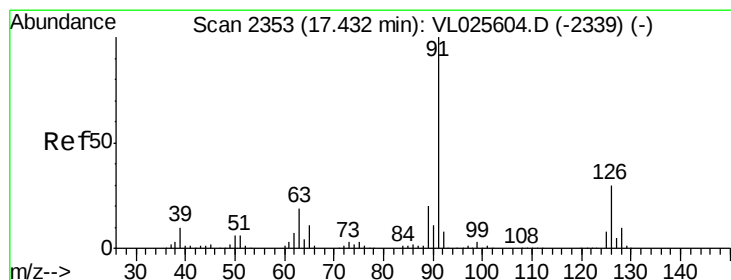
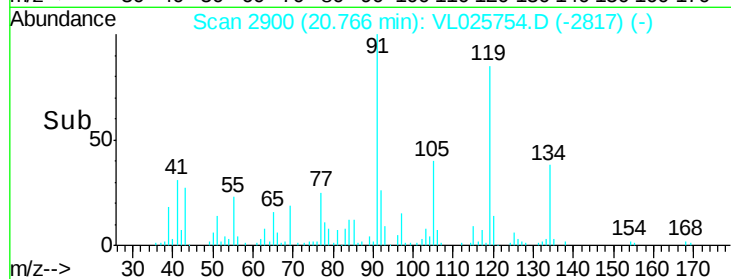
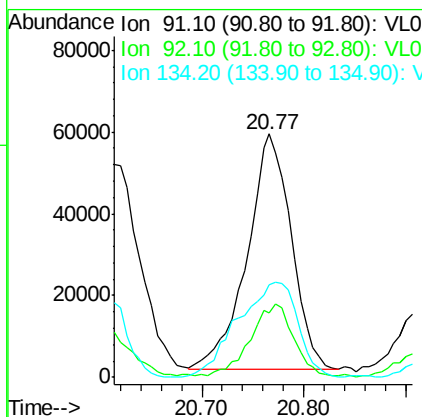
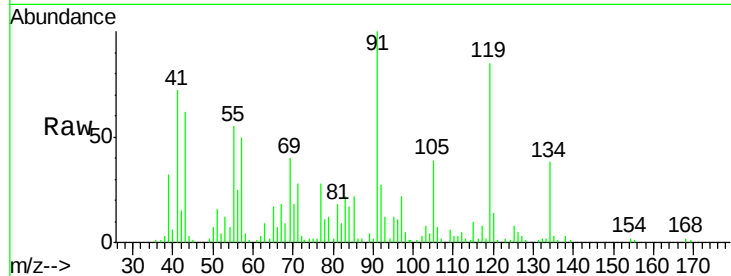




#70
n-Butylbenzene
Concen: 0.40 ppbv
RT: 20.77 min Scan# 2900
Delta R.T. 0.01 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

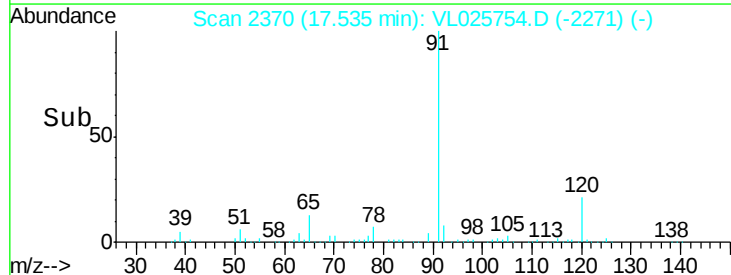
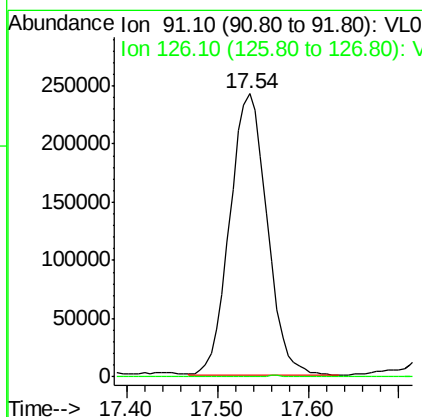
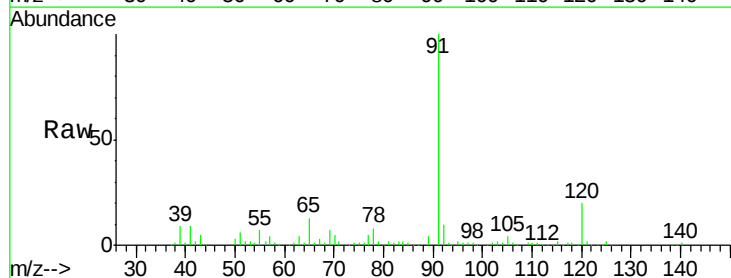
Instrument :
MSVOA_L
ClientSampleId :
PR1

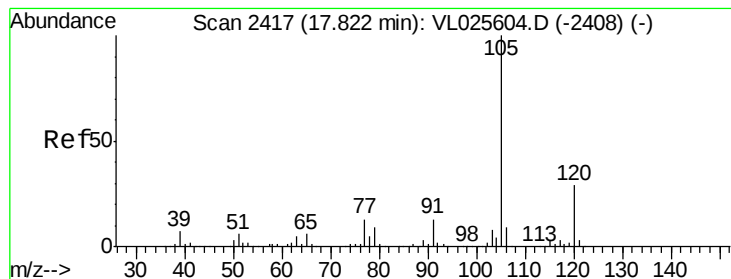
Tot Ion: 91 Resp: 172567
Ion Ratio Lower Upper
91 100
92 31.2 44.3 66.5#
134 55.2 19.4 29.2#



#71
2-Chlorotoluene
Concen: 2.51 ppbv
RT: 17.54 min Scan# 2370
Delta R.T. 0.10 min
Lab File: VL025754.D
Acq: 27 Jul 2015 15:30

Tgt Ion: 91 Resp: 686472
Ion Ratio Lower Upper
91 100
126 0.6 12.2 49.0#





#72

4-Ethyltoluene

Concen: 2.65 ppbv

RT: 17.83 min Scan# 2419

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

PR1

Tot Ion:105 Resp: 836614

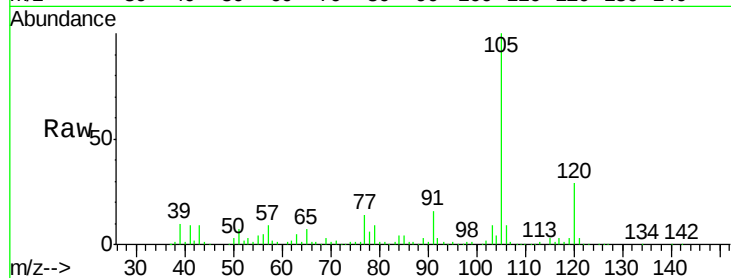
Ion Ratio Lower Upper

105 100

120 27.8 23.9 35.9

91 15.2 10.3 15.5

77 13.3 10.9 16.3

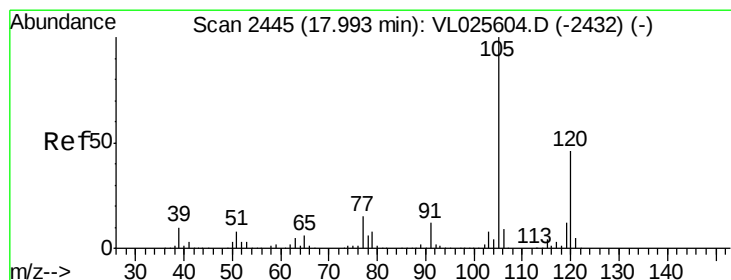
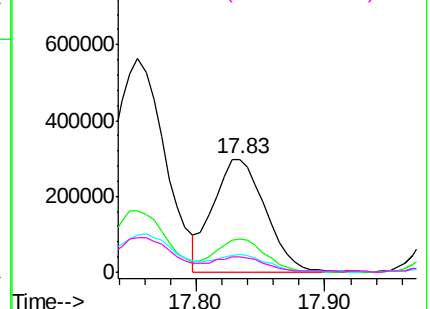
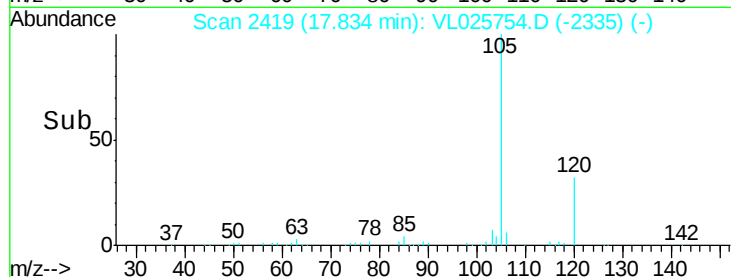


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 1.99 ppbv

RT: 18.00 min Scan# 2446

Delta R.T. 0.01 min

Lab File: VL025754.D

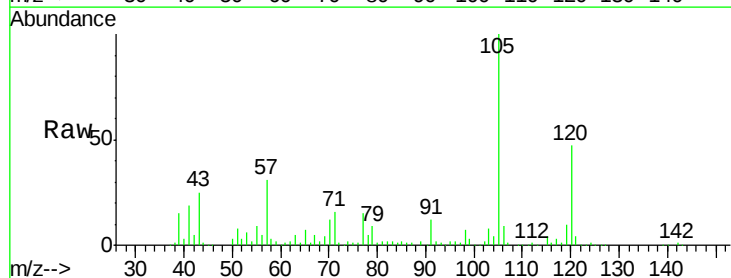
Acq: 27 Jul 2015 15:30

Tgt Ion:105 Resp: 617160

Ion Ratio Lower Upper

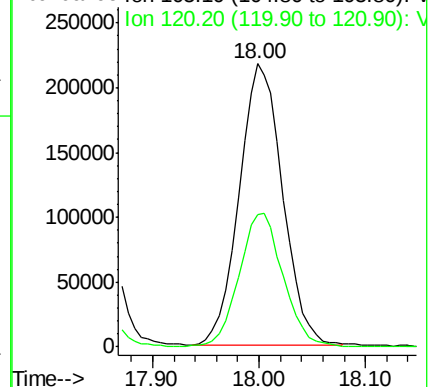
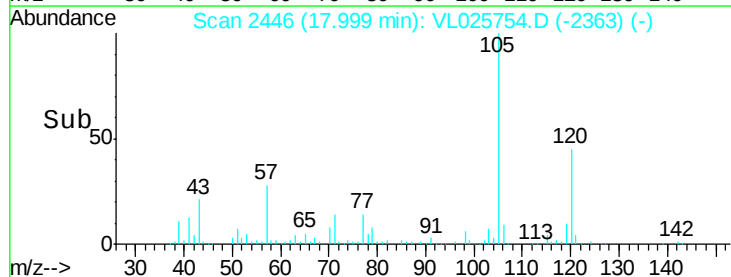
105 100

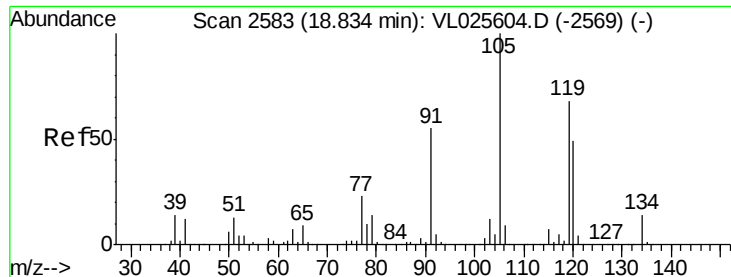
120 46.8 37.0 55.4



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: 5.47 ppbv

RT: 18.85 min Scan# 2585

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampleId :

PR1

Tot Ion:105 Resp: 1896618

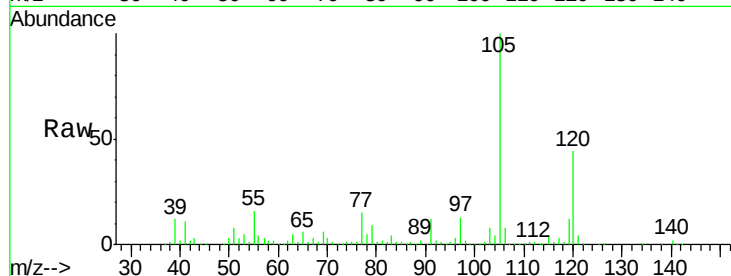
Ion Ratio Lower Upper

105 100

120 43.7 39.3 58.9

91 11.7 43.8 65.6#

77 14.3 18.3 27.5#

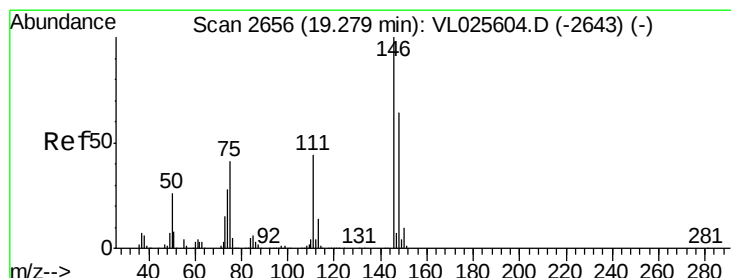
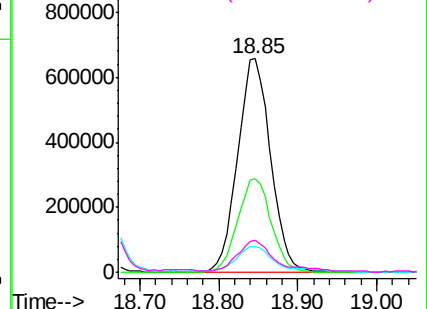
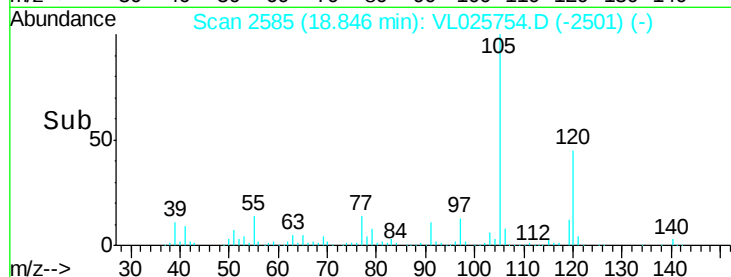


Abundance Ion 105.10 (104.80 to 105.80): V

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



#76

1,4-Dichlorobenzene

Concen: 0.36 ppbv

RT: 19.28 min Scan# 2657

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

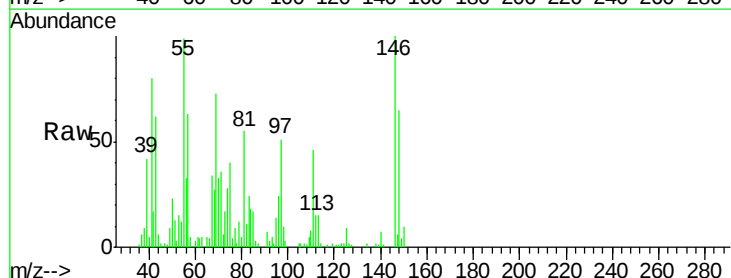
Tgt Ion:146 Resp: 81503

Ion Ratio Lower Upper

146 100

111 106.2 22.1 66.1#

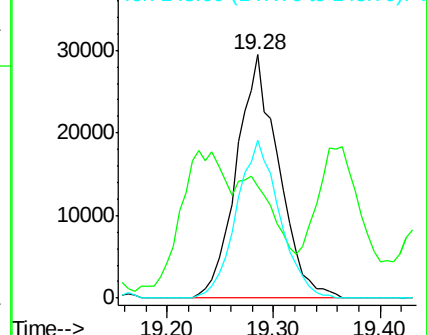
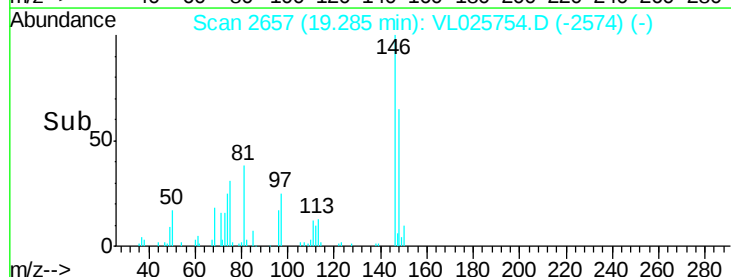
148 66.3 31.9 95.9

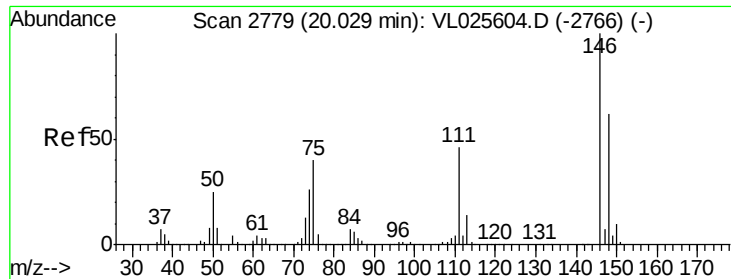


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.04 ppbv

RT: 20.04 min Scan# 2781

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

Instrument :

MSVOA_L

ClientSampled :

PR1

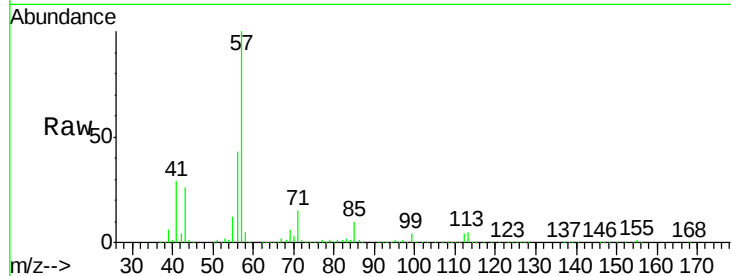
Tot Ion:146 Resp: 9721

Ion Ratio Lower Upper

146 100

111 0.0 23.4 70.3#

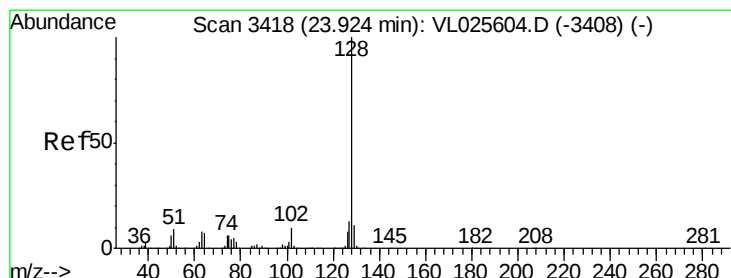
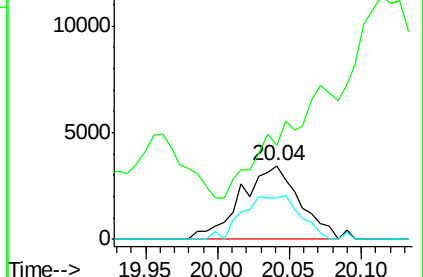
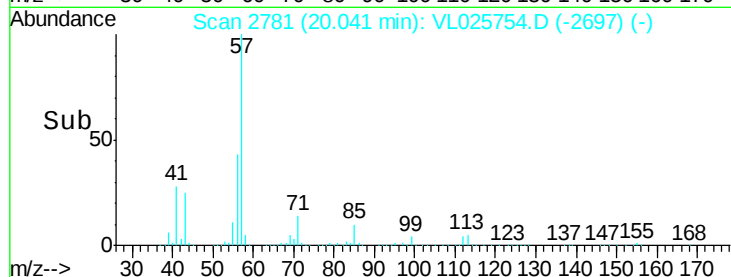
148 59.0 31.6 94.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 1.31 ppbv

RT: 23.94 min Scan# 3420

Delta R.T. 0.01 min

Lab File: VL025754.D

Acq: 27 Jul 2015 15:30

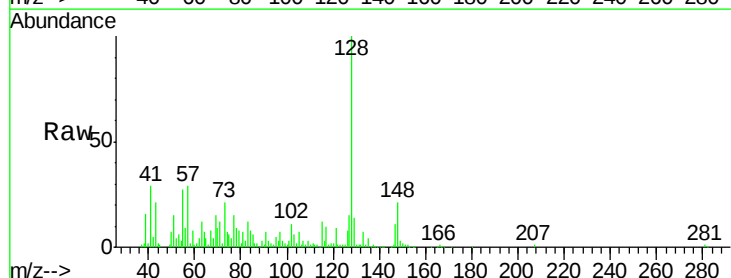
Tgt Ion:128 Resp: 438936

Ion Ratio Lower Upper

128 100

127 14.1 10.8 16.2

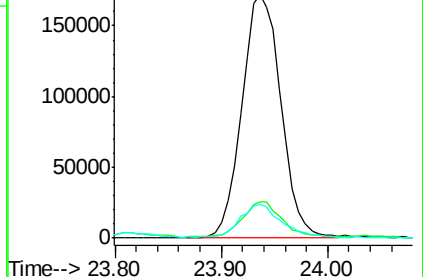
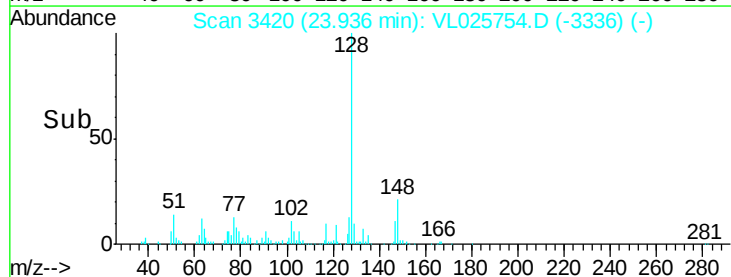
129 13.7 9.0 13.4#

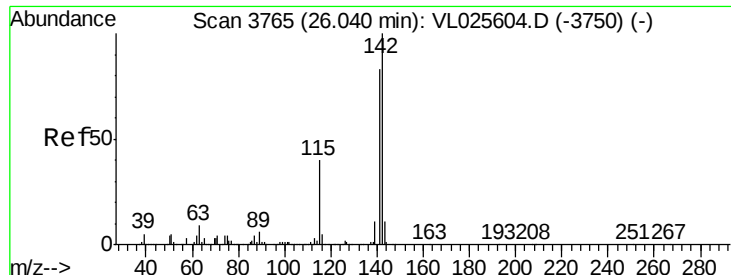


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80
 Naphthalene, 2-methyl-
 Concen: 0.24 ppbv
 RT: 26.05 min Scan# 3767
 Delta R.T. 0.01 min
 Lab File: VL025754.D
 Acq: 27 Jul 2015 15:30

Instrument :
 MSVOA_L
 ClientSampleId :
 PR1

Tot Ion	Ratio	Lower	Upper
142	100		
141	107.4	67.1	100.7#
115	53.1	33.9	50.9#

