

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025757.D
 Acq On : 27 Jul 2015 17:33
 Operator : SY/MD
 Sample : G3092-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-221-BDUP

Quant Time: Jul 28 01:01:53 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	880616	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.33	114	2265880	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.80	117	2628949	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.32	95	1975344	8.91	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	60823	0.27	ppbv	91
3) Chlorodifluoromethane	3.57	51	142269	1.15	ppbv	90
4) Chloromethane	3.75	50	29008	0.51	ppbv	98
9) Propene	3.82	41	2535726	61.50	ppbv	89
10) Heptane	9.35	43	46515	0.29	ppbv	96
11) Trichlorofluoromethane	4.70	101	59646	0.20	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	5.31	101	9966	0.06	ppbv	100
13) Ethanol	4.32	45	302252	47.15	ppbv	97
15) Acetone	4.60	43	1135089	7.30	ppbv	99
16) 1,3-Butadiene	3.95	39	21027	0.34	ppbv #	12
17) tert-Butyl alcohol	5.15	59	24093	0.18	ppbv	95
19) Isopropyl Alcohol	4.76	45	305229	4.92	ppbv #	1
20) Methylene Chloride	5.15	84	433018	6.85	ppbv	99
23) Vinyl Acetate	6.01	43	111449	0.47	ppbv #	59
25) Ethyl Acetate	6.67	43	146185	0.62	ppbv #	85
26) Hexane	6.66	57	179909	1.62	ppbv #	51
27) Carbon Disulfide	5.39	76	21526	0.12	ppbv #	62
29) Chloroform	6.75	83	26876	0.12	ppbv	93
30) Cyclohexane	8.29	84	56395	0.53	ppbv #	36
34) 2-Butanone	6.21	43	79918	0.62	ppbv	97
35) Carbon Tetrachloride	8.16	117	14225	0.06	ppbv	87
36) Benzene	8.02	78	68032	0.31	ppbv	97
38) Trichloroethene	9.07	130	79166	0.78	ppbv	93
41) Tetrahydrofuran	7.15	42	22298	0.35	ppbv #	84
42) Bromodichloromethane	9.01	83	8128	0.04	ppbv #	59
43) Methyl Methacrylate	9.29	69	2964	0.04	ppbv #	1
44) 2,2,4-Trimethylpentane	9.09	57	160477	0.43	ppbv #	77
47) 1,1,2-Trichloroethane	10.89	97	4726	0.04	ppbv	94
50) 4-Methyl-2-Pentanone	10.10	43	583145	3.15	ppbv	99
52) Tetrachloroethene	12.92	164	47766587	438.87	ppbv	87
53) Toluene	11.24	91	355177	1.16	ppbv	100
58) Ethyl Benzene	14.46	91	142654	0.33	ppbv	97
59) m/p-Xylene	14.74	91	341872	0.90	ppbv	98
60) o-Xylene	15.53	91	236061	0.57	ppbv	99
61) Styrene	15.36	104	5297	0.04	ppbv #	28
62) Isopropylbenzene	16.57	105	63929	0.12	ppbv	100
64) n-propylbenzene	17.55	120	99342	0.68	ppbv	94
65) tert-Butylbenzene	18.85	119	170749	0.32	ppbv #	71
66) Benzyl Chloride	19.33	91	18855	0.10	ppbv #	84
67) sec-Butylbenzene	19.42	105	26160	0.04	ppbv	98
69) p-Isopropyltoluene	19.80	119	27274	0.04	ppbv #	55

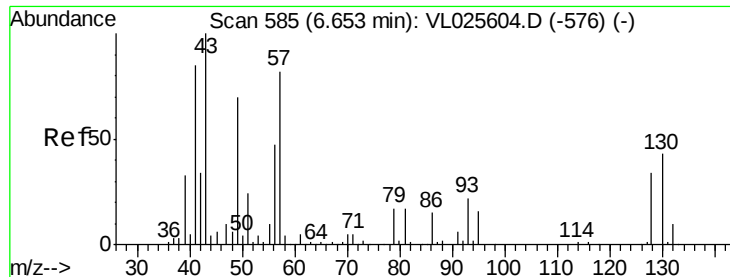
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025757.D
 Acq On : 27 Jul 2015 17:33
 Operator : SY/MD
 Sample : G3092-01DUP
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Quant Time: Jul 28 01:01:53 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed 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)
70) n-Butylbenzene	20.77	91	45574	0.07	ppbv #	47
71) 2-Chlorotoluene	17.29	91	32395	0.08	ppbv	89
72) 4-Ethyltoluene	17.84	105	592487	1.30	ppbv	98
73) 1,3,5-Trimethylbenzene	18.01	105	436058	0.98	ppbv	99
74) 1,2,4-Trimethylbenzene	18.85	105	1452995	2.91	ppbv #	68
76) 1,4-Dichlorobenzene	19.29	146	19822	0.06	ppbv #	54
77) 1,2-Dichlorobenzene	20.04	146	15796	0.05	ppbv	85
79) Naphthalene	23.94	128	91878	0.19	ppbv	98
80) Naphthalene,2-methyl-	26.05	142	4308	0.03	ppbv #	78

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

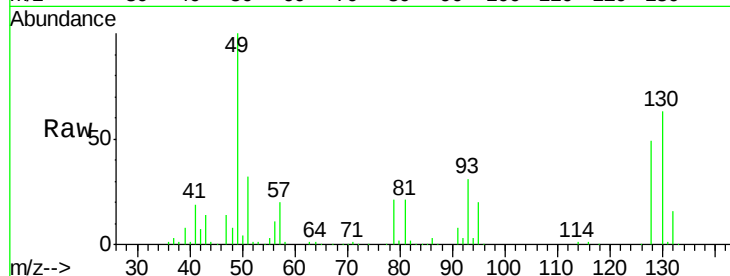
Tot Ion: 49 Resp: 880616

Ion Ratio Lower Upper

49 100

128 49.2 25.4 76.0

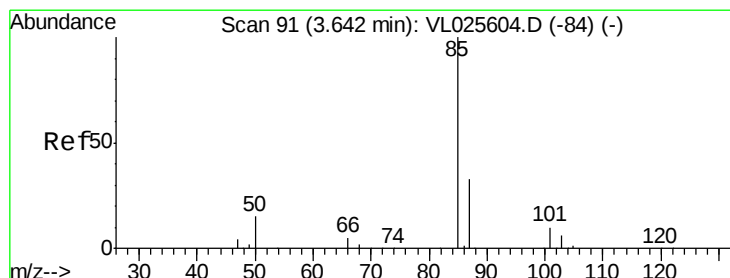
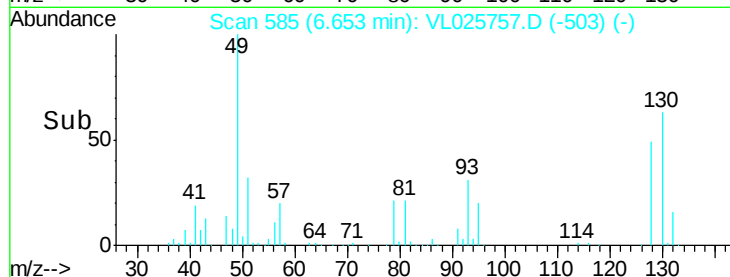
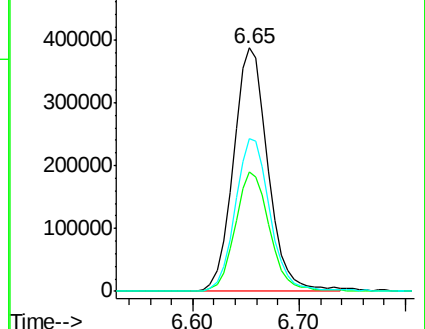
130 63.7 31.9 95.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.27 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL025757.D

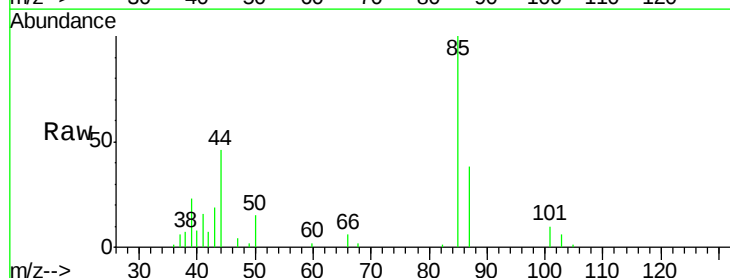
Acq: 27 Jul 2015 17:33

Tgt Ion: 85 Resp: 60823

Ion Ratio Lower Upper

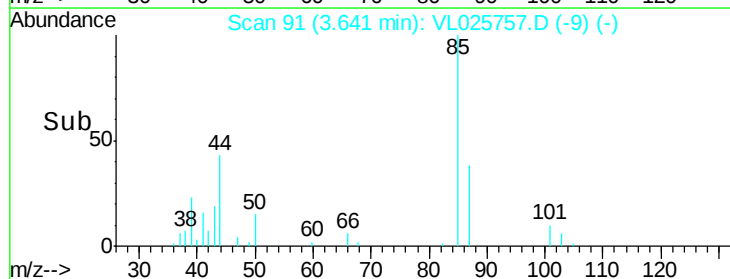
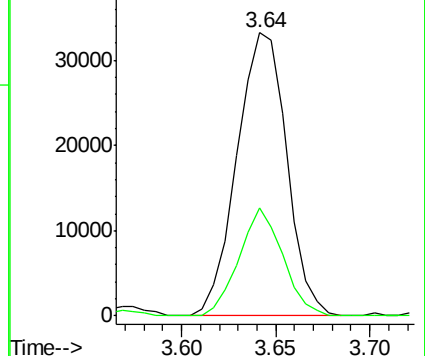
85 100

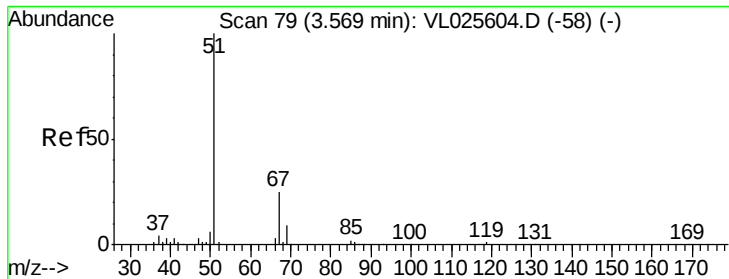
87 38.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.15 ppbv

RT: 3.57 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

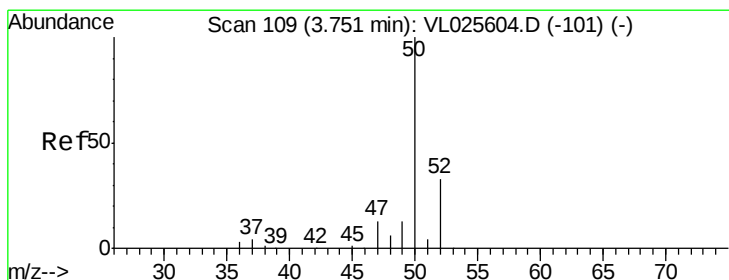
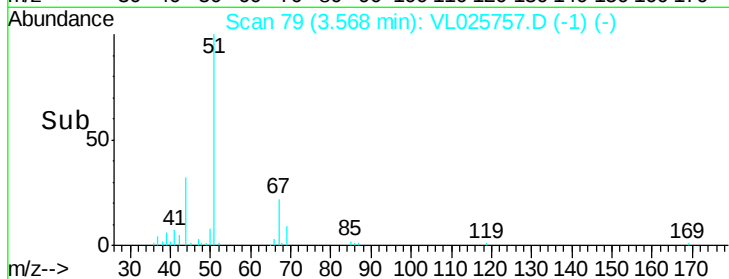
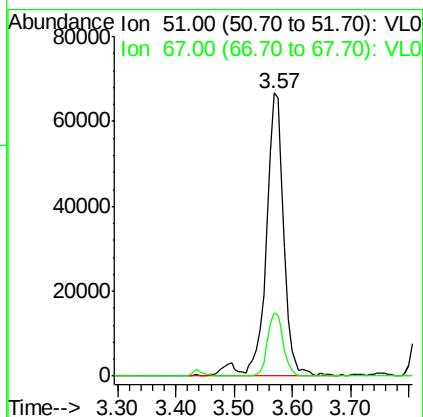
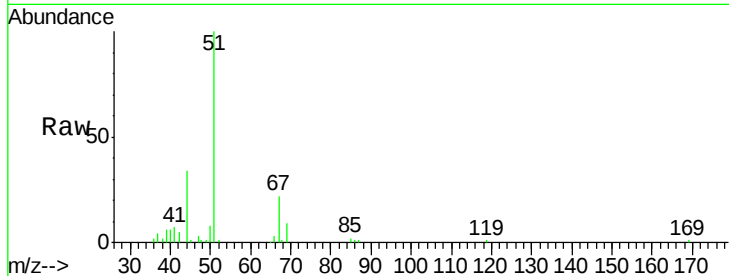
A-221-BDUP

Tot Ion: 51 Resp: 142269

Ion Ratio Lower Upper

51 100

67 19.6 19.5 29.3



#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.75 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL025757.D

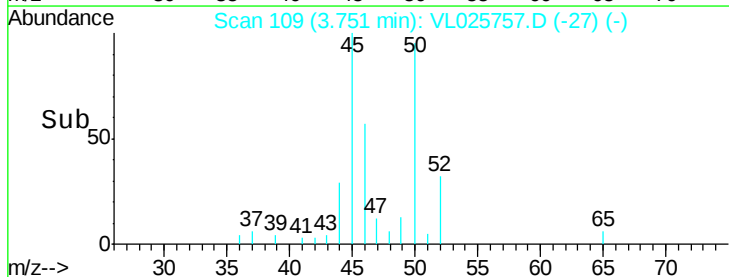
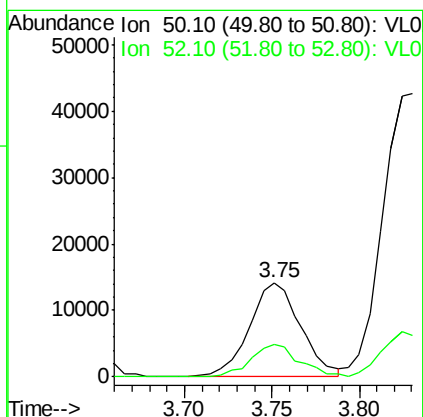
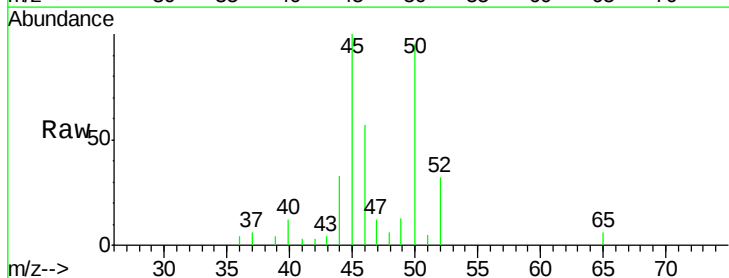
Acq: 27 Jul 2015 17:33

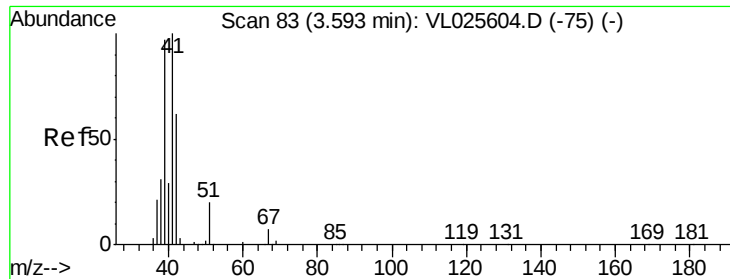
Tgt Ion: 50 Resp: 29008

Ion Ratio Lower Upper

50 100

52 34.0 26.2 39.2





#9

Propene

Concen: 61.50 ppbv

RT: 3.82 min Scan# 121

Delta R.T. 0.23 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

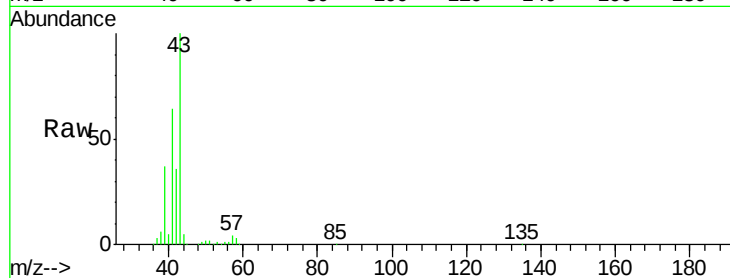
A-221-BDUP

Tot Ion: 41 Resp: 2535726

Ion Ratio Lower Upper

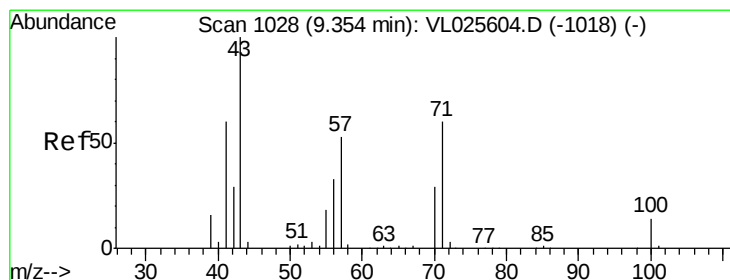
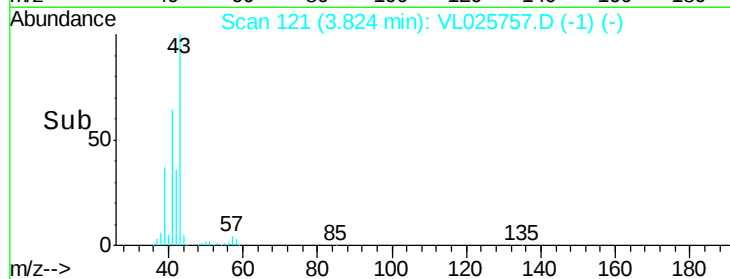
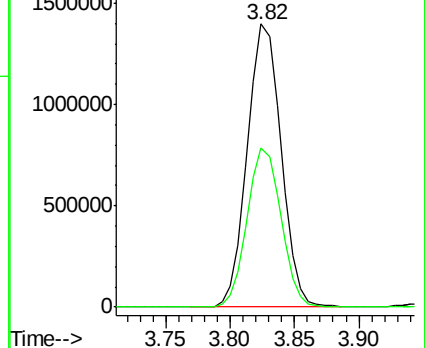
41 100

42 56.6 52.4 78.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.29 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. -0.00 min

Lab File: VL025757.D

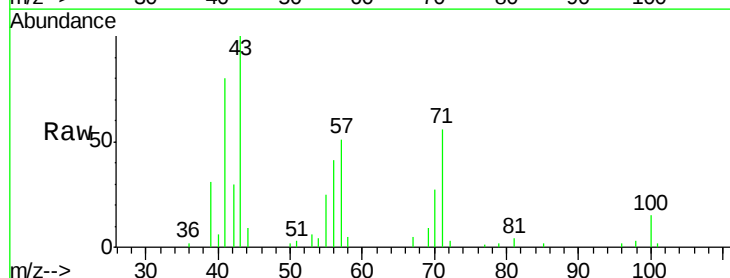
Acq: 27 Jul 2015 17:33

Tgt Ion: 43 Resp: 46515

Ion Ratio Lower Upper

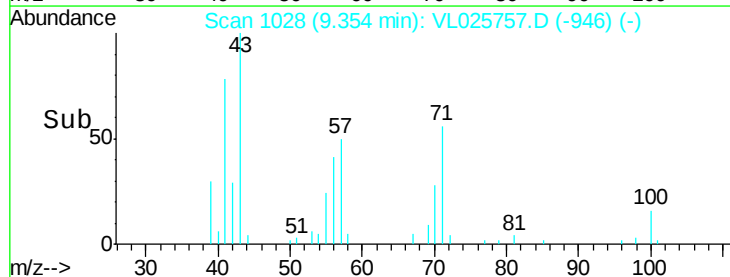
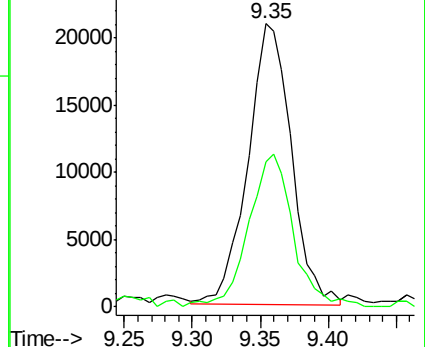
43 100

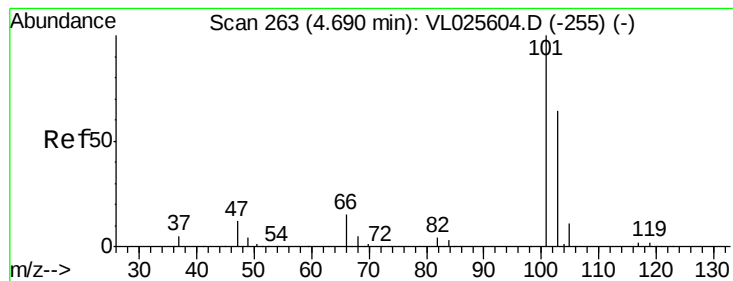
57 56.2 42.6 64.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.20 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

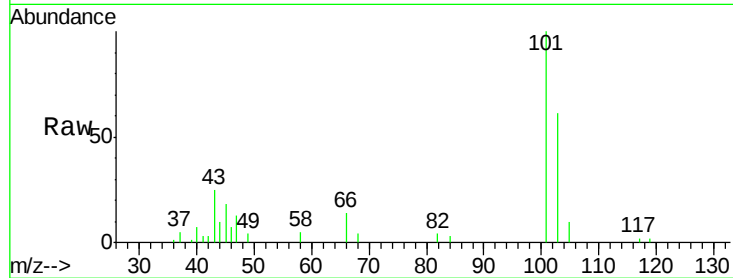
A-221-BDUP

Tot Ion:101 Resp: 59646

Ion Ratio Lower Upper

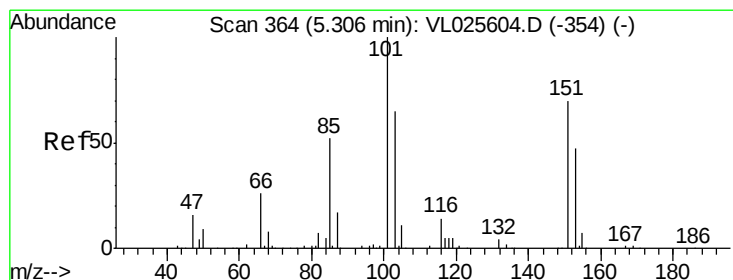
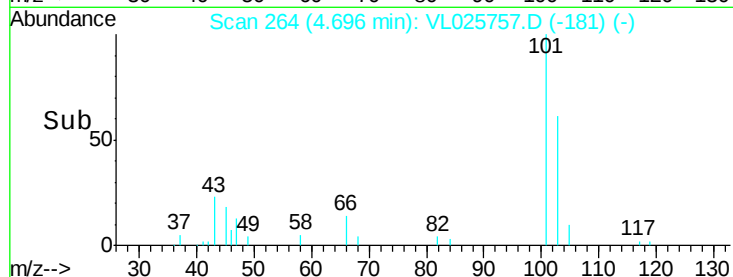
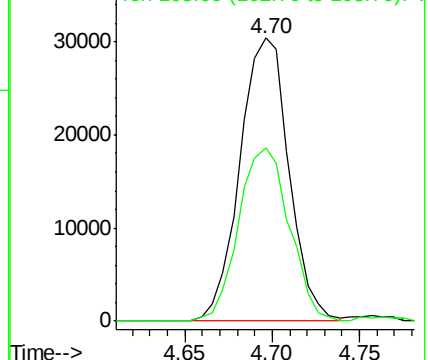
101 100

103 61.4 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.06 ppbv

RT: 5.31 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL025757.D

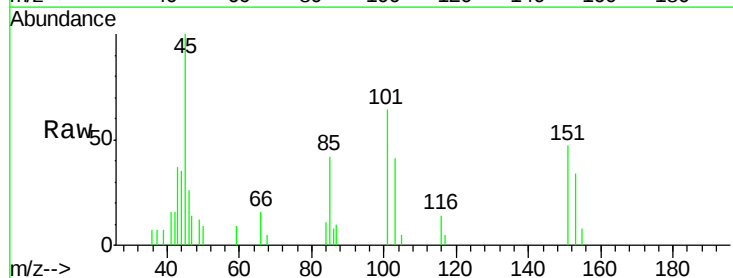
Acq: 27 Jul 2015 17:33

Tgt Ion:101 Resp: 9966

Ion Ratio Lower Upper

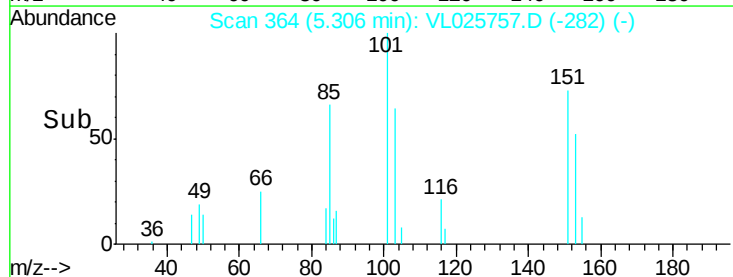
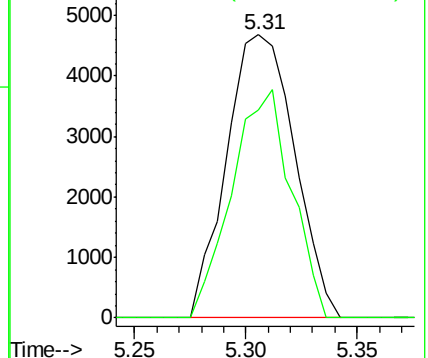
101 100

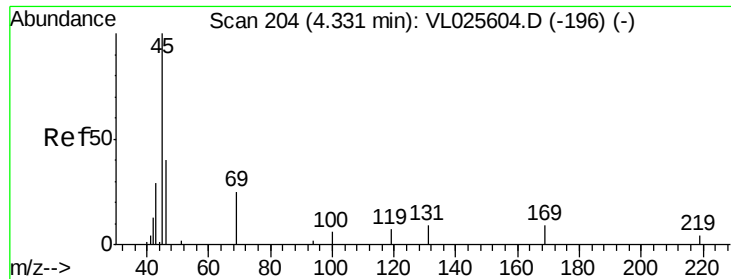
151 70.5 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 47.15 ppbv

RT: 4.32 min Scan# 203

Delta R.T. -0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

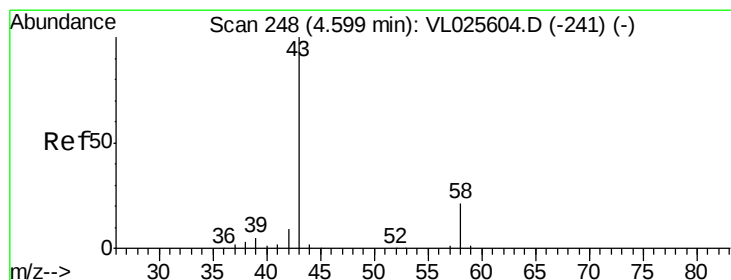
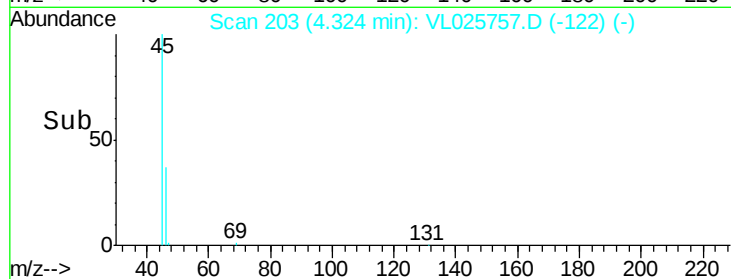
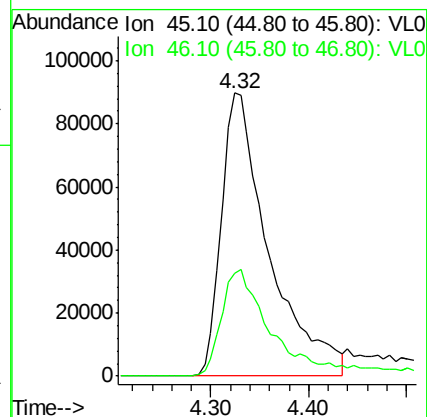
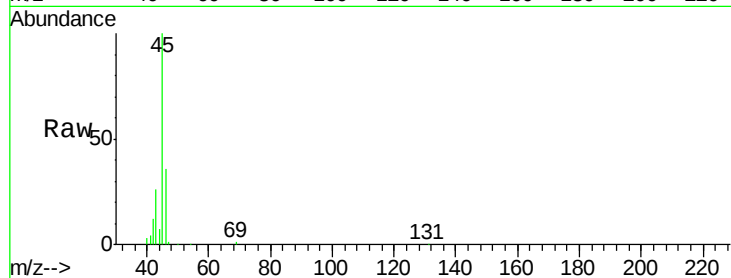
A-221-BDUP

Tot Ion: 45 Resp: 302252

Ion Ratio Lower Upper

45 100

46 41.9 16.0 64.0



#15

Acetone

Concen: 7.30 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL025757.D

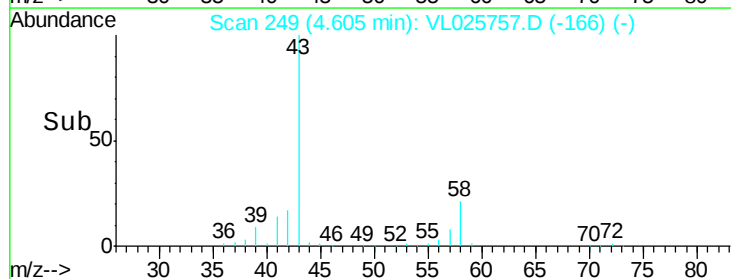
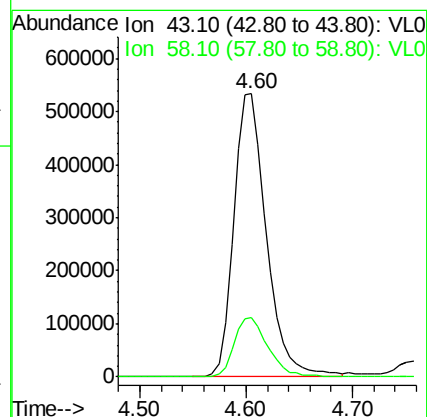
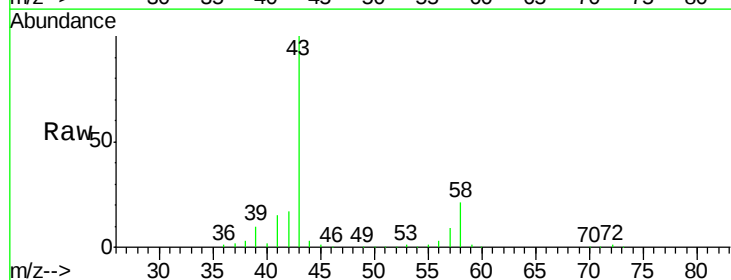
Acq: 27 Jul 2015 17:33

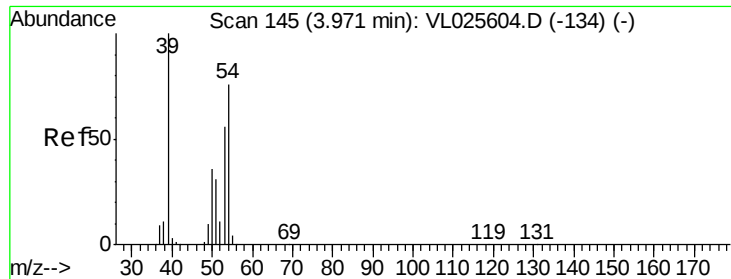
Tgt Ion: 43 Resp: 1135089

Ion Ratio Lower Upper

43 100

58 22.2 17.2 25.8

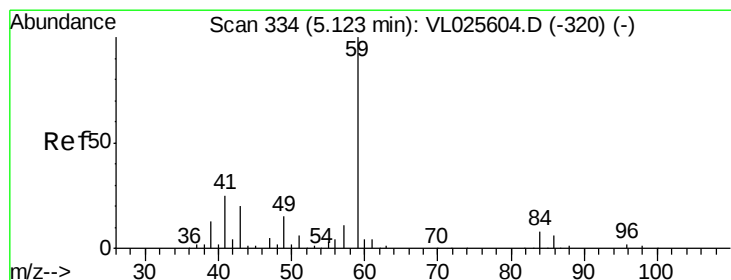
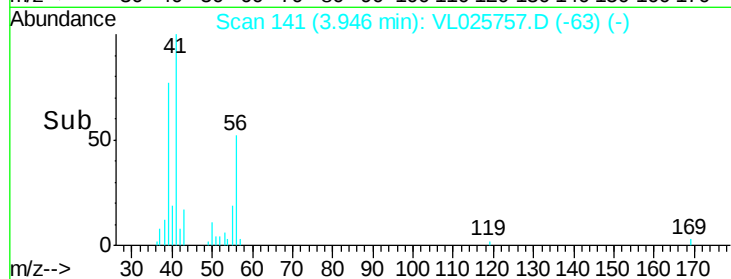
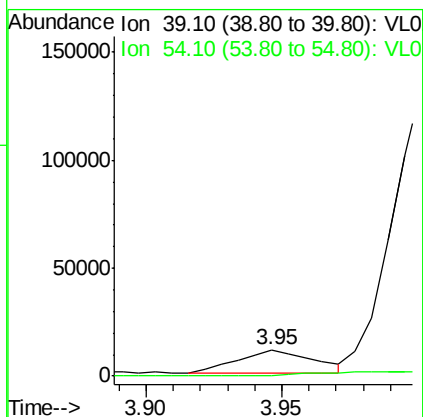
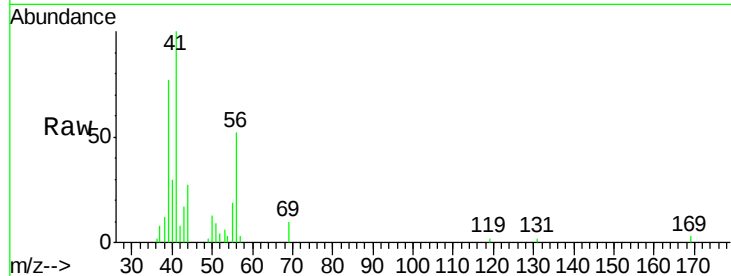




#16
1,3-Butadiene
Concen: 0.34 ppbv
RT: 3.95 min Scan# 141
Delta R.T. -0.02 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

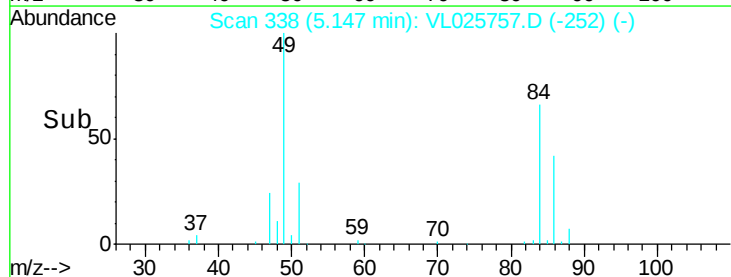
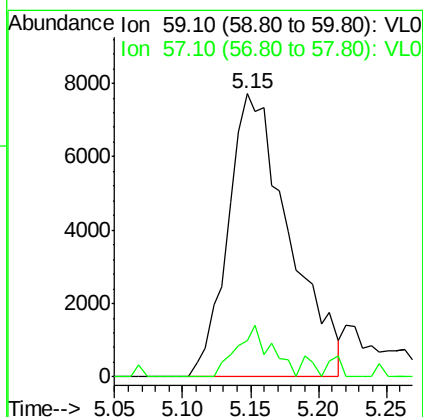
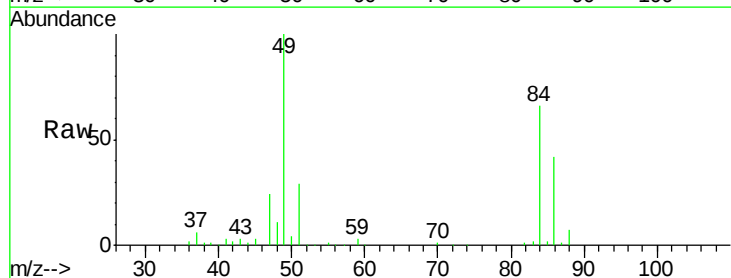
Instrument :
MSVOA_L
ClientSampleId :
A-221-BDUP

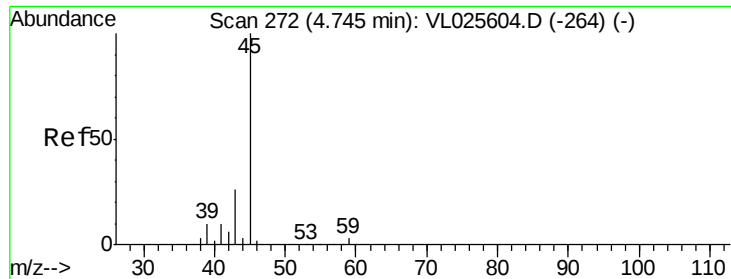
Tot Ion: 39 Resp: 21027
Ion Ratio Lower Upper
39 100
54 0.0 59.3 88.9#



#17
tert-Butyl alcohol
Concen: 0.18 ppbv
RT: 5.15 min Scan# 338
Delta R.T. 0.02 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

Tgt Ion: 59 Resp: 24093
Ion Ratio Lower Upper
59 100
57 13.7 9.4 14.2





#19

Isopropyl Alcohol

Concen: 4.92 ppbv

RT: 4.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

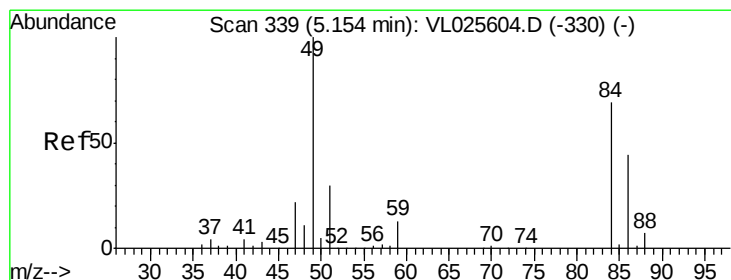
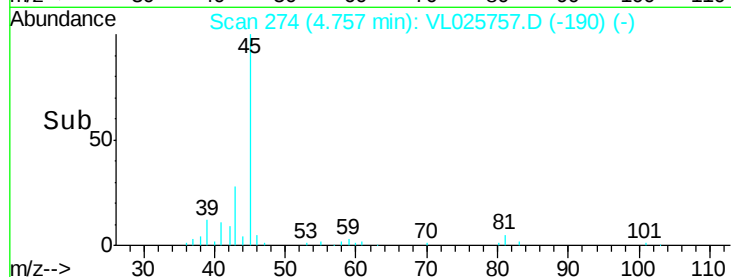
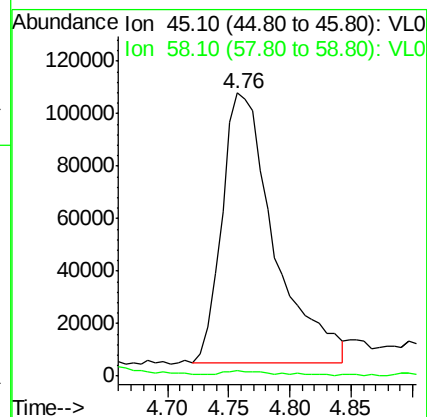
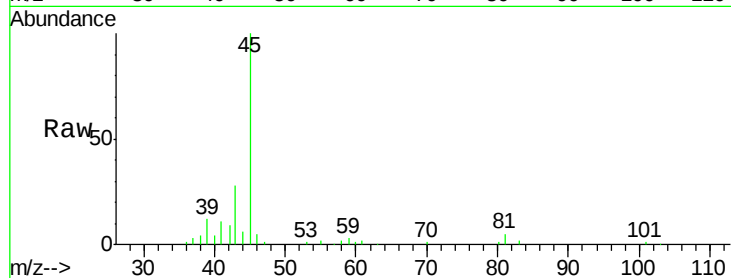
A-221-BDUP

Tot Ion: 45 Resp: 305229

Ion Ratio Lower Upper

45 100

58 82.6 1.1 1.7#



#20

Methylene Chloride

Concen: 6.85 ppbv

RT: 5.15 min Scan# 339

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Tgt Ion: 84 Resp: 433018

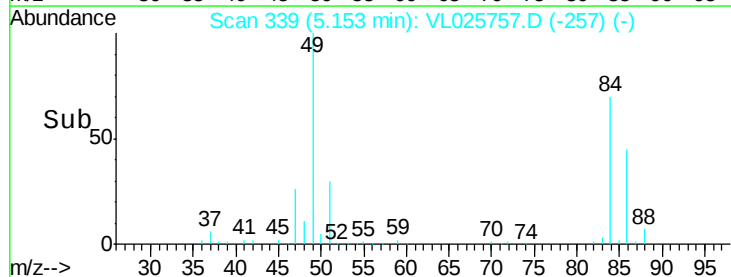
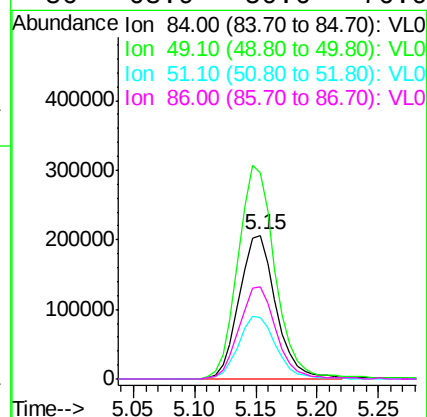
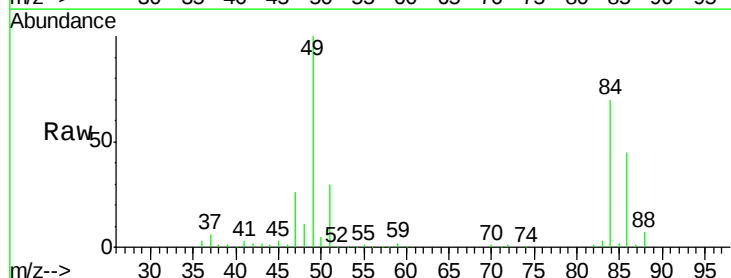
Ion Ratio Lower Upper

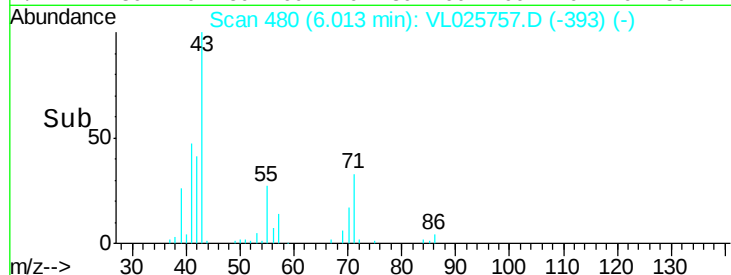
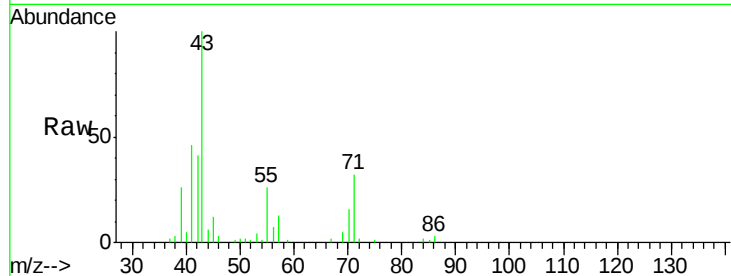
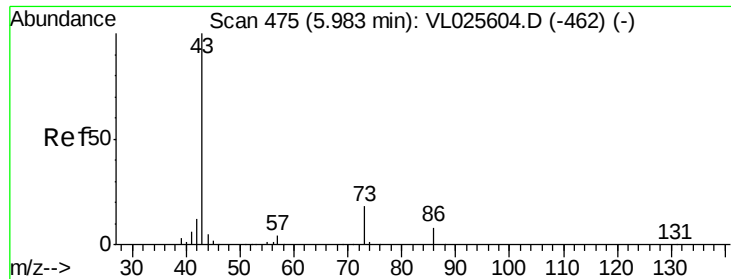
84 100

49 143.6 115.2 172.8

51 42.9 35.0 52.6

86 63.9 50.6 76.0





#23

Vinyl Acetate

Concen: 0.47 ppbv

RT: 6.01 min Scan# 480

Delta R.T. 0.03 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

Tot Ion: 43 Resp: 111449

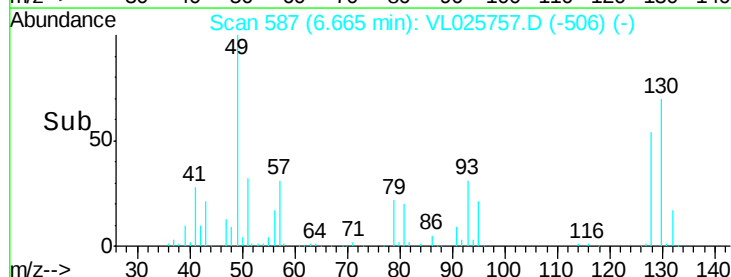
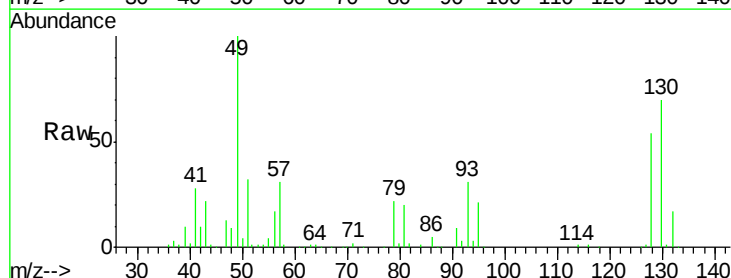
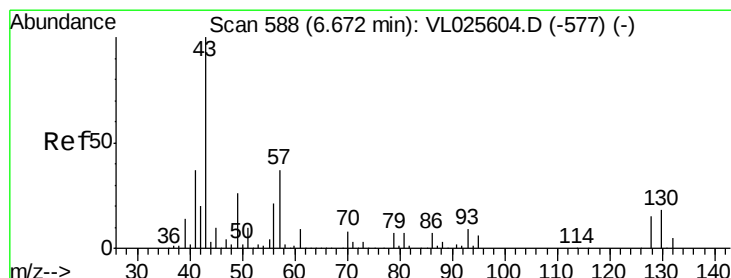
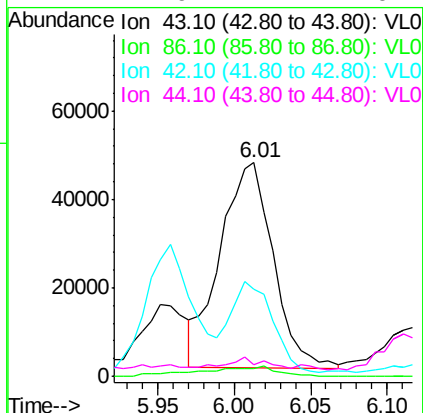
Ion Ratio Lower Upper

43 100

86 3.5 6.7 10.1#

42 40.8 9.8 14.6#

44 1.9 4.1 6.1#



#25

Ethyl Acetate

Concen: 0.62 ppbv

RT: 6.67 min Scan# 587

Delta R.T. -0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Tgt Ion: 43 Resp: 146185

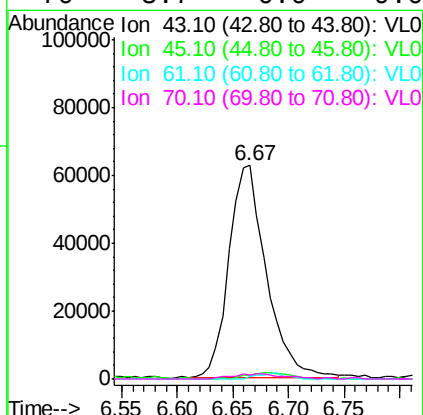
Ion Ratio Lower Upper

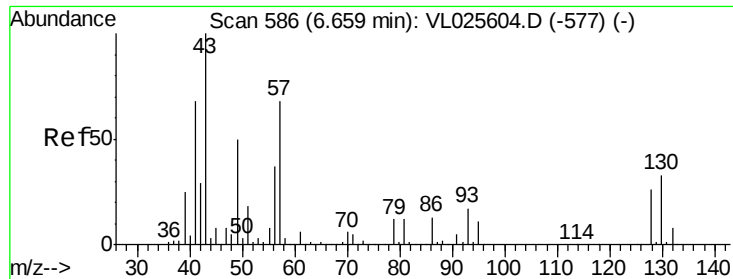
43 100

45 3.5 7.5 11.3#

61 2.1 6.6 10.0#

70 3.7 6.0 9.0#





#26

Hexane

Concen: 1.62 ppbv

RT: 6.66 min Scan# 586

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

Tot Ion: 57 Resp: 179909

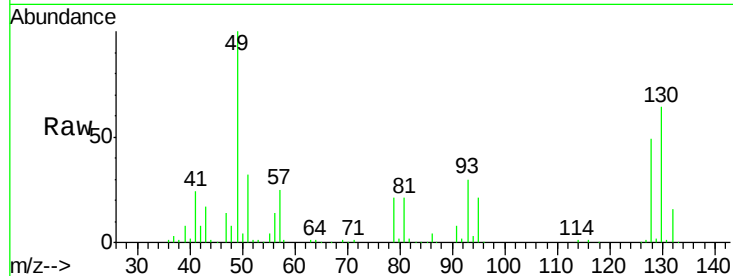
Ion Ratio Lower Upper

57 100

41 97.7 81.4 122.2

43 83.1 171.4 257.2#

56 57.8 44.5 66.7

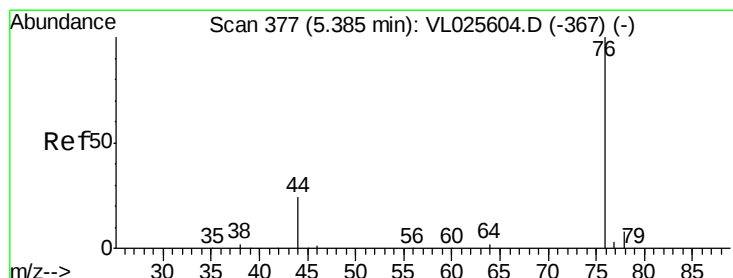
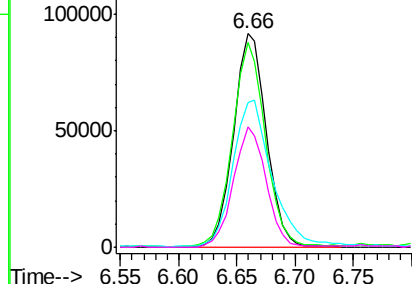
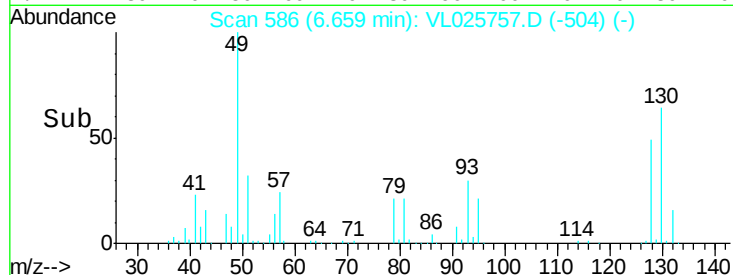


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.12 ppbv

RT: 5.39 min Scan# 378

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

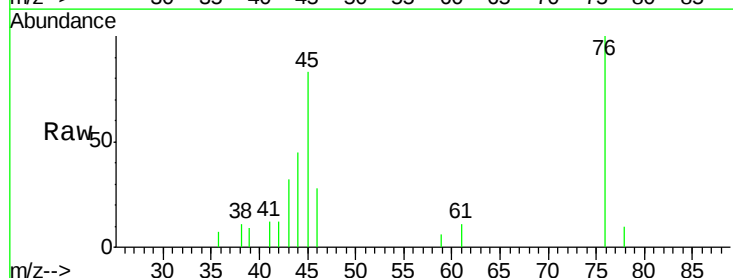
Tgt Ion: 76 Resp: 21526

Ion Ratio Lower Upper

76 100

44 51.4 20.2 30.4#

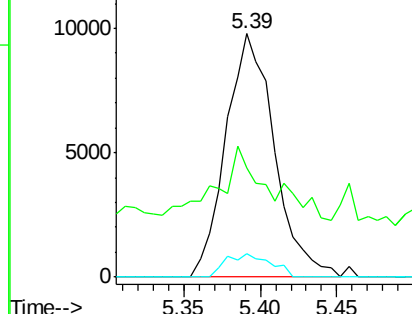
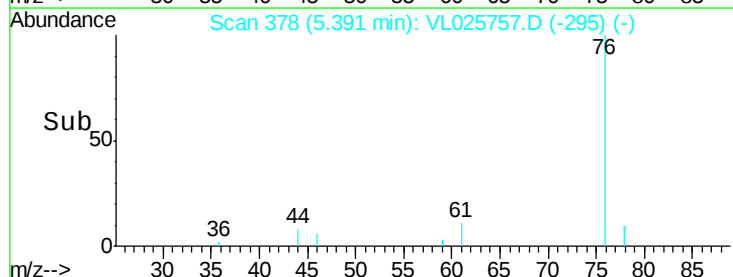
78 8.7 7.4 11.2

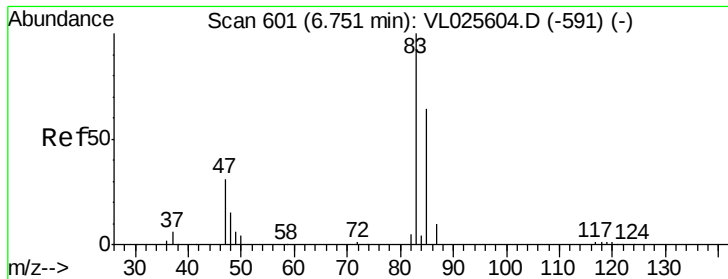


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

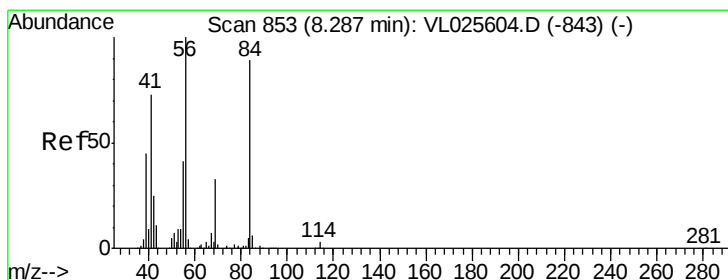
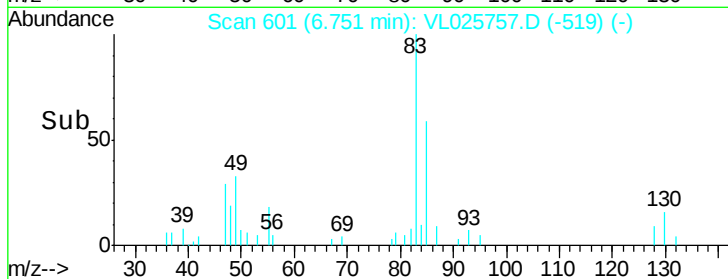
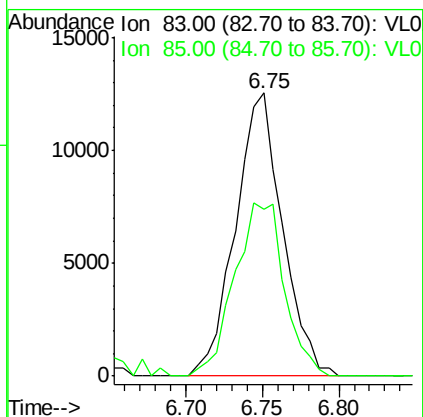
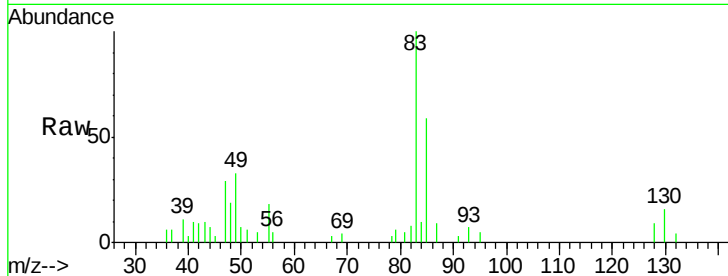




#29
Chloroform
Concen: 0.12 ppbv
RT: 6.75 min Scan# 601
Delta R.T. -0.00 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

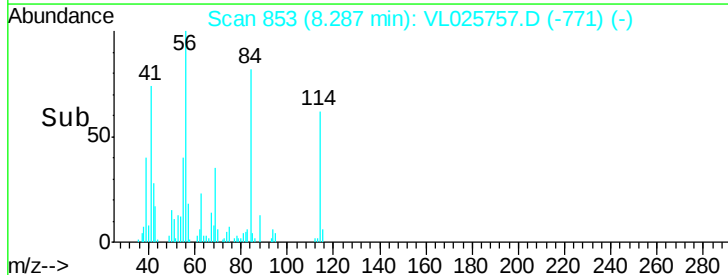
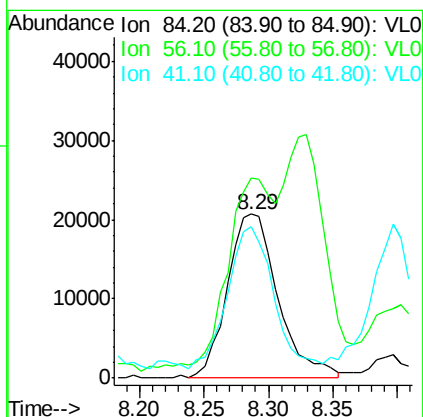
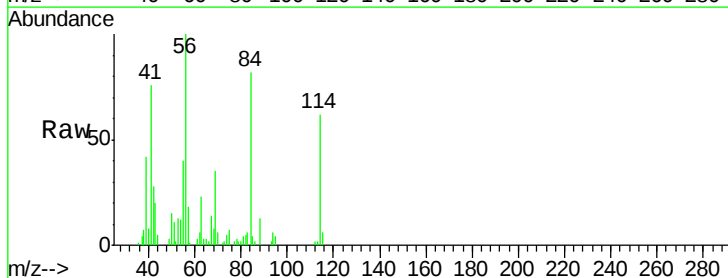
Instrument :
MSVOA_L
ClientSampleId :
A-221-BDUP

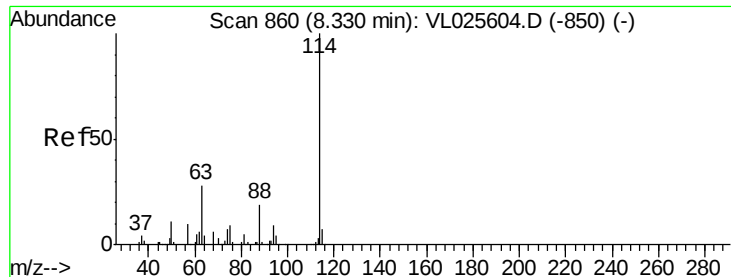
Tot Ion: 83 Resp: 26876
Ion Ratio Lower Upper
83 100
85 58.8 51.6 77.4



#30
Cyclohexane
Concen: 0.53 ppbv
RT: 8.29 min Scan# 853
Delta R.T. -0.00 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

Tgt Ion: 84 Resp: 56395
Ion Ratio Lower Upper
84 100
56 236.0 97.5 146.3#
41 88.0 65.4 98.2

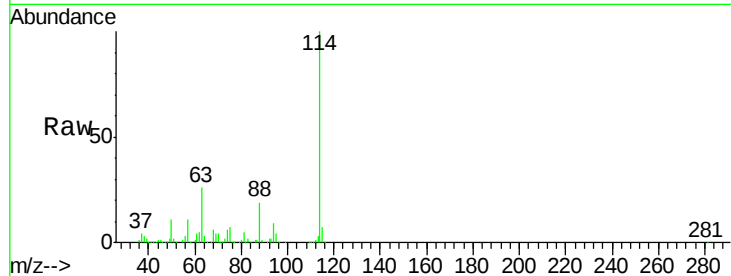




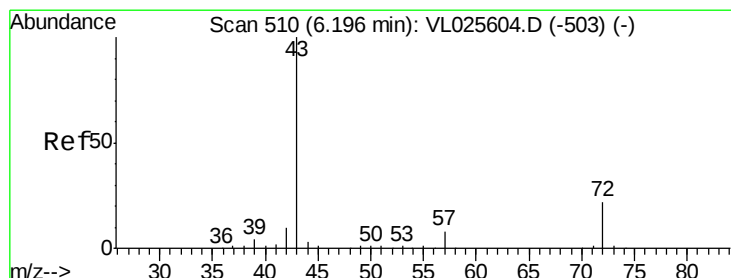
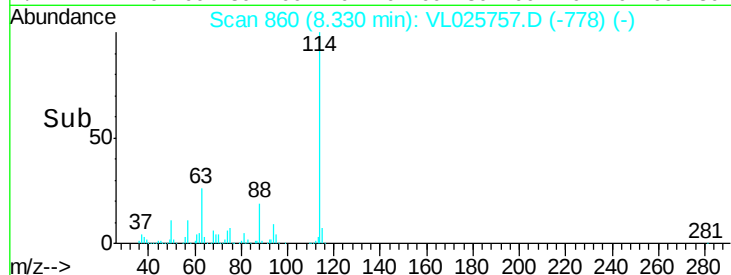
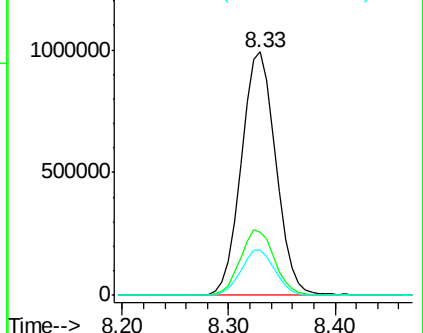
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.33 min Scan# 860
 Delta R.T. -0.00 min
 Lab File: VL025757.D
 Acq: 27 Jul 2015 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 A-221-BDUP

Tot Ion:114 Resp: 2265880
 Ion Ratio Lower Upper
 114 100
 63 26.7 22.4 33.6
 88 18.5 15.0 22.4

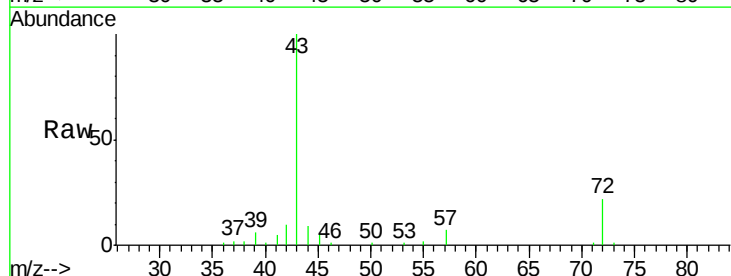


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

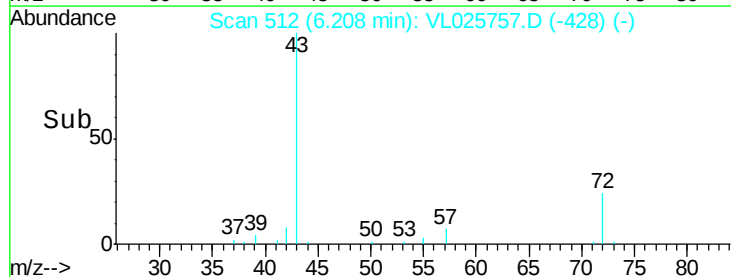
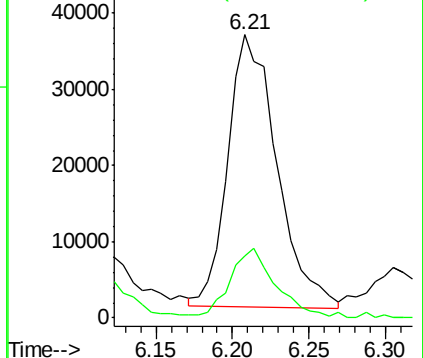


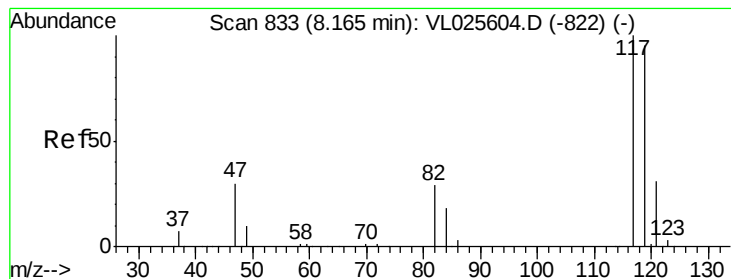
#34
 2-Butanone
 Concen: 0.62 ppbv
 RT: 6.21 min Scan# 512
 Delta R.T. 0.01 min
 Lab File: VL025757.D
 Acq: 27 Jul 2015 17:33

Tgt Ion: 43 Resp: 79918
 Ion Ratio Lower Upper
 43 100
 72 24.7 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: 0.06 ppbv

RT: 8.16 min Scan# 833

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

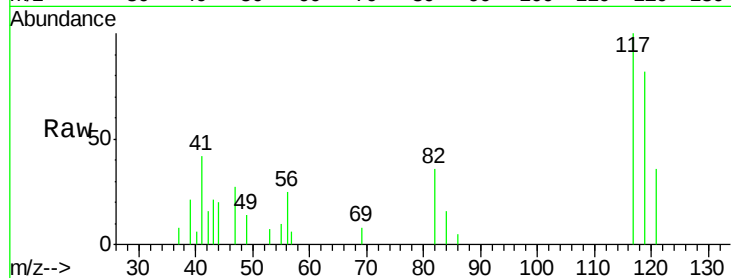
Tot Ion:117 Resp: 14225

Ion Ratio Lower Upper

117 100

119 81.7 75.9 113.9

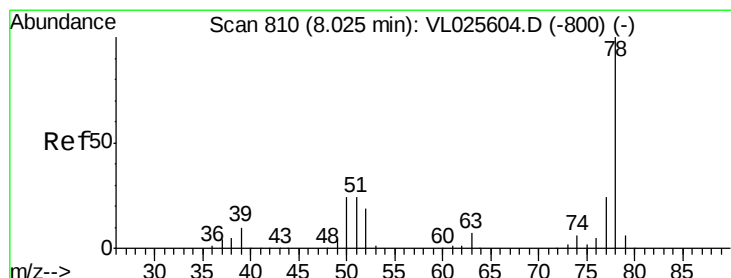
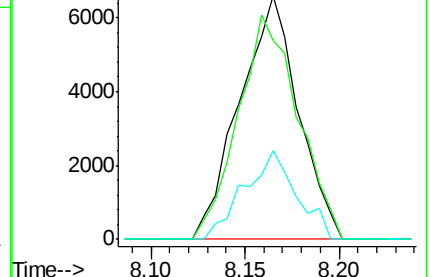
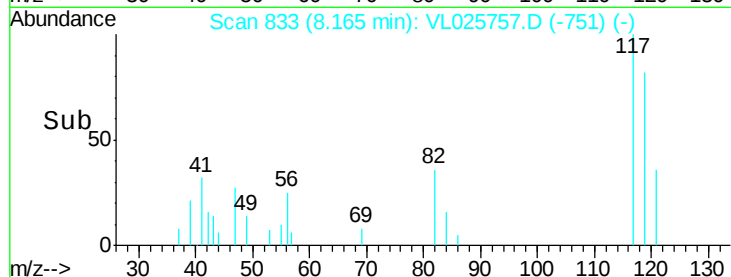
121 36.5 24.4 36.6



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: 0.31 ppbv

RT: 8.02 min Scan# 810

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

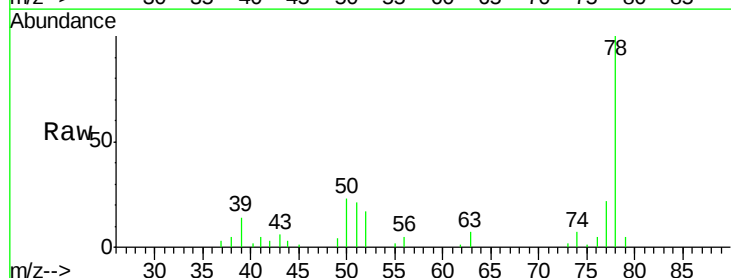
Tgt Ion: 78 Resp: 68032

Ion Ratio Lower Upper

78 100

77 22.2 19.0 28.4

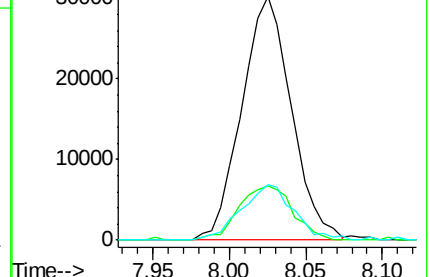
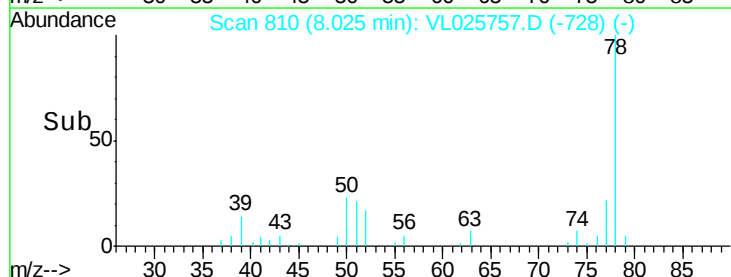
50 22.5 19.2 28.8

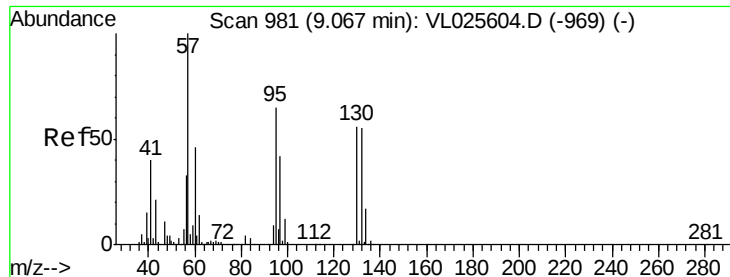


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.78 ppbv

RT: 9.07 min Scan# 981

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

Tot Ion:130 Resp: 79166

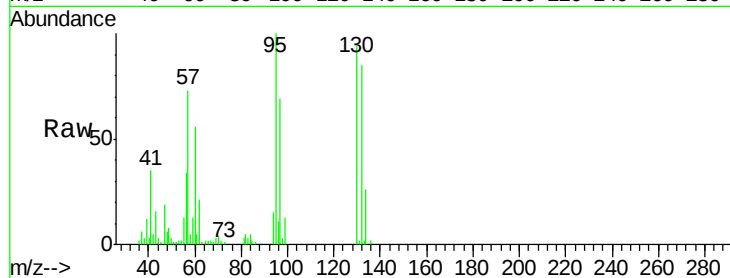
Ion Ratio Lower Upper

130 100

95 106.7 94.2 141.4

132 90.5 78.6 118.0

97 73.5 60.6 90.8

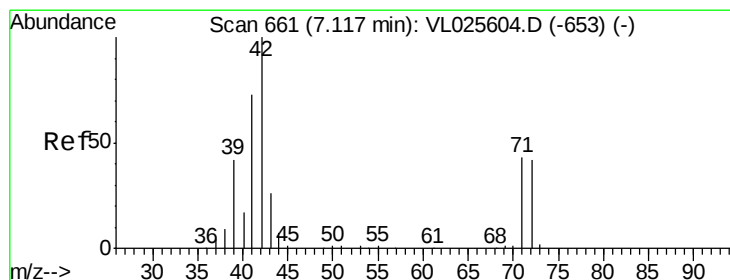
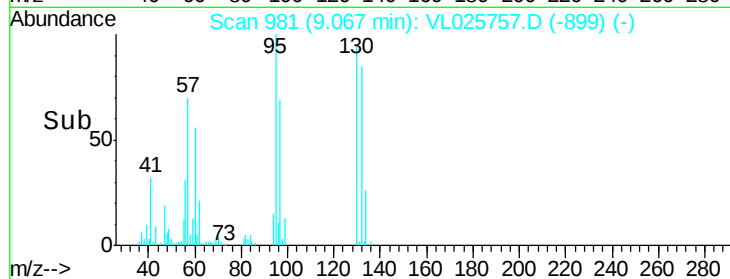
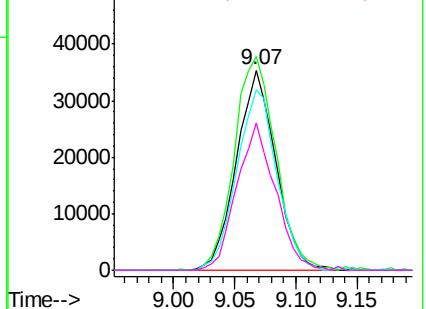


Abundance Ion 130.00 (129.70 to 130.70): V

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



#41

Tetrahydrofuran

Concen: 0.35 ppbv

RT: 7.15 min Scan# 666

Delta R.T. 0.03 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

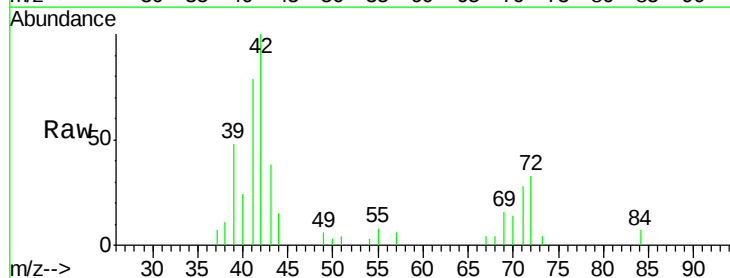
Tgt Ion: 42 Resp: 22298

Ion Ratio Lower Upper

42 100

72 34.6 34.0 51.0

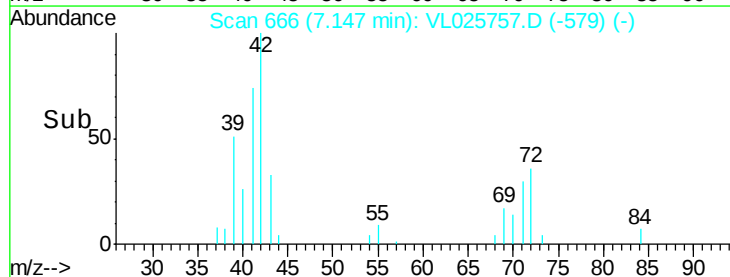
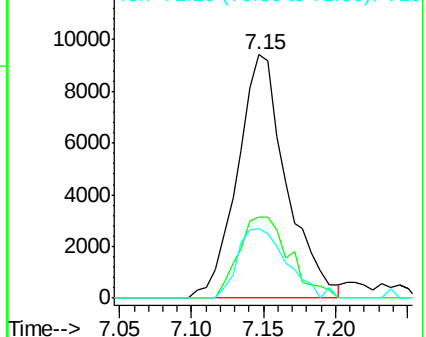
71 28.5 33.0 49.6#

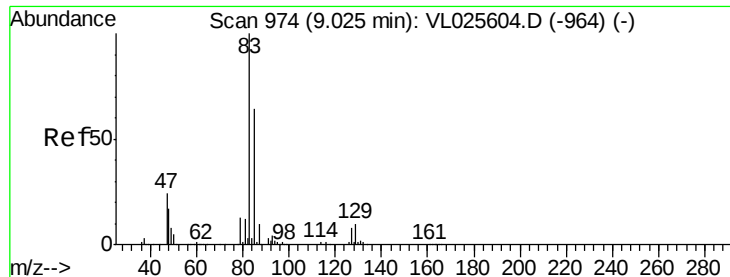


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.04 ppbv

RT: 9.01 min Scan# 972

Delta R.T. -0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

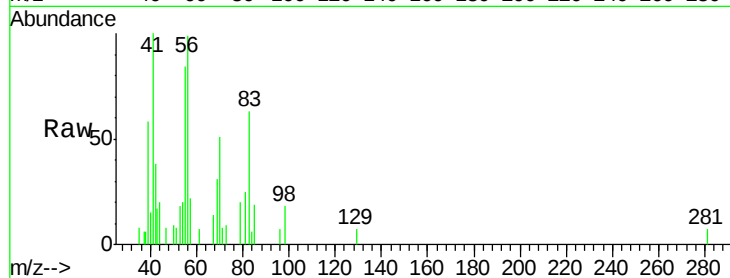
Tot Ion: 83 Resp: 8128

Ion Ratio Lower Upper

83 100

85 30.6 51.3 76.9#

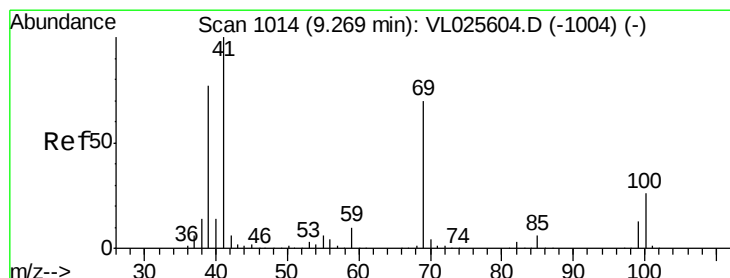
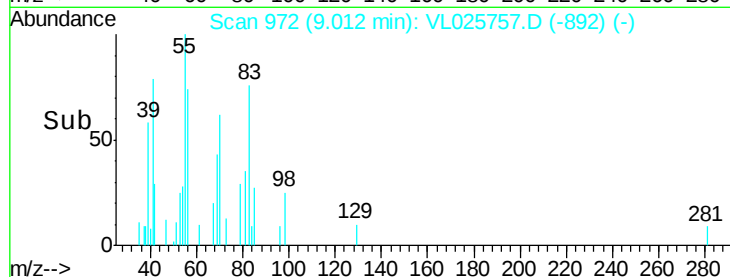
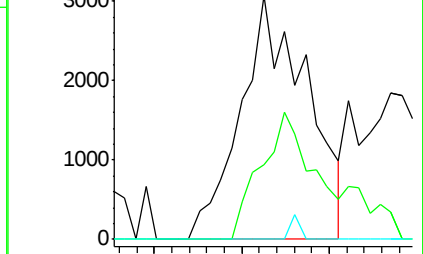
127 0.0 6.0 9.0#



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: 0.04 ppbv

RT: 9.29 min Scan# 1017

Delta R.T. 0.02 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

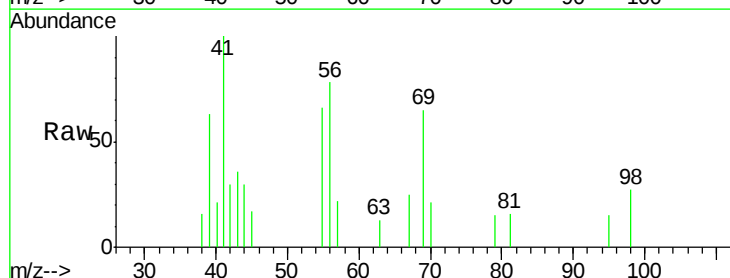
Tgt Ion: 69 Resp: 2964

Ion Ratio Lower Upper

69 100

41 0.0 117.3 175.9#

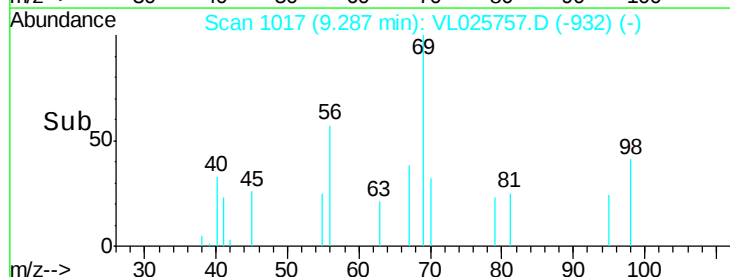
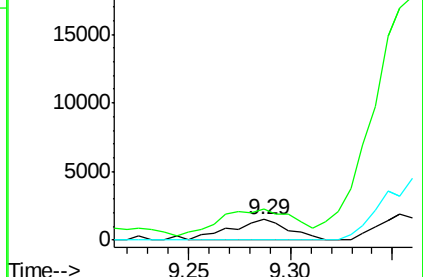
100 0.0 29.0 43.6#

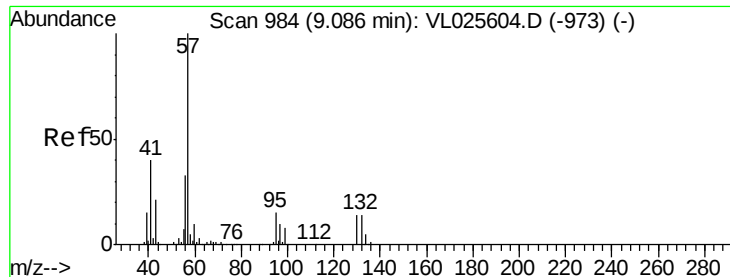


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.43 ppbv

RT: 9.09 min Scan# 984

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

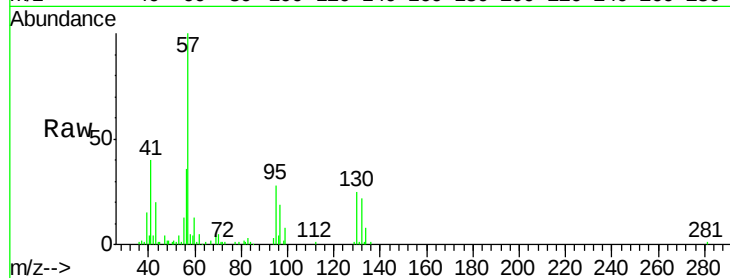
Tot Ion: 57 Resp: 160477

Ion Ratio Lower Upper

57 100

41 50.1 31.2 46.8#

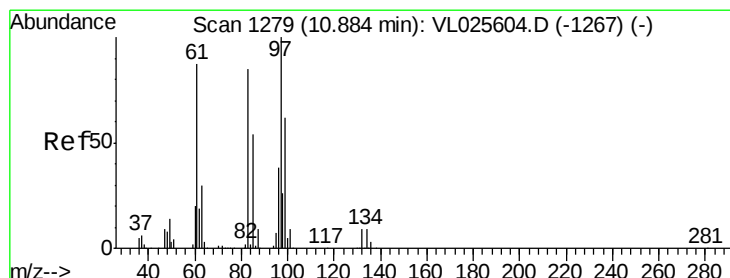
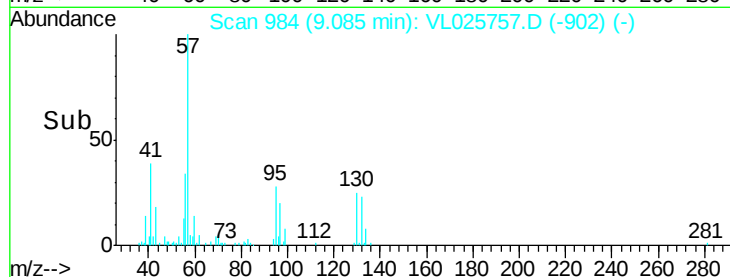
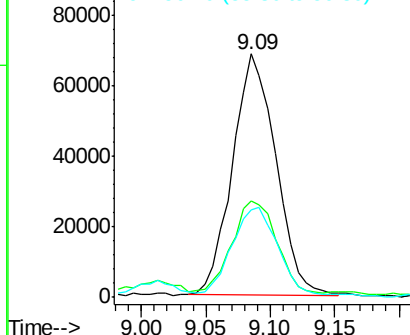
56 47.9 25.4 38.2#



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



#47

1,1,2-Trichloroethane

Concen: 0.04 ppbv

RT: 10.89 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Tgt Ion: 97 Resp: 4726

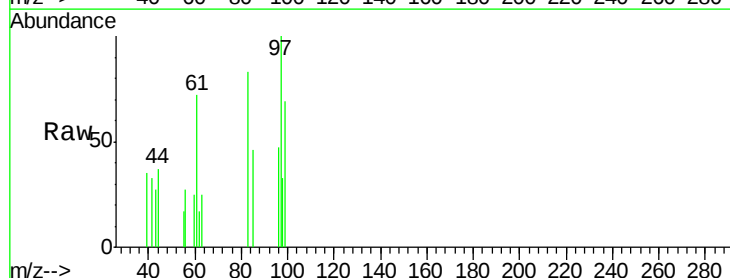
Ion Ratio Lower Upper

97 100

83 82.9 67.8 101.8

85 46.3 43.5 65.3

99 68.7 49.8 74.8

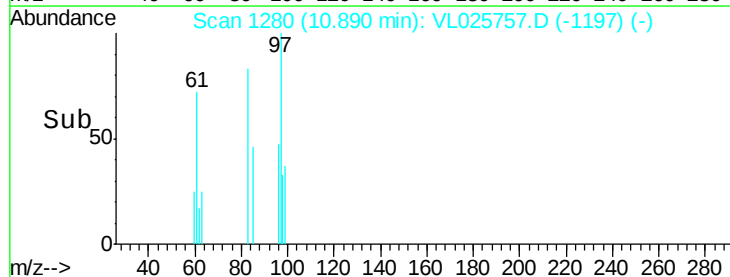
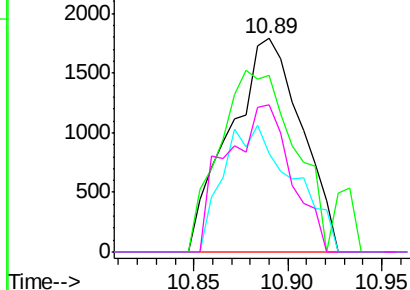


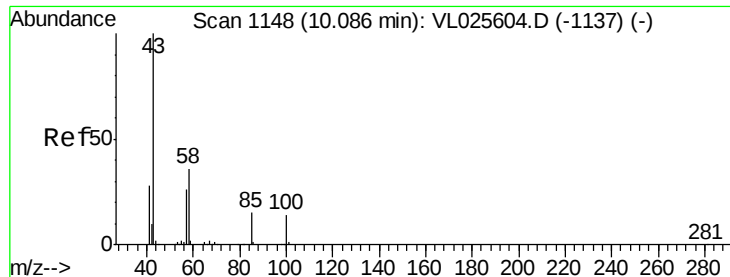
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

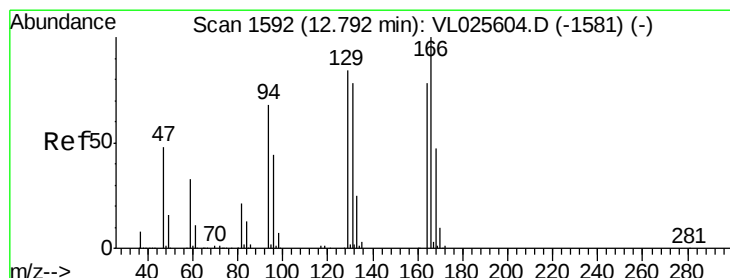
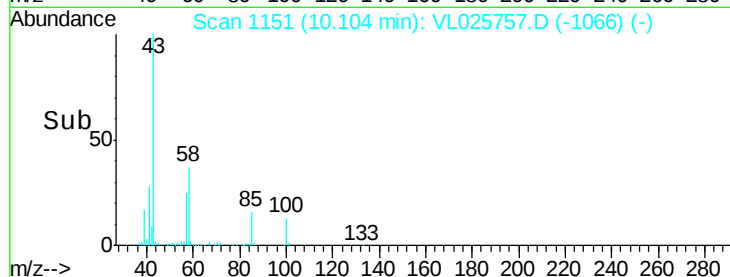
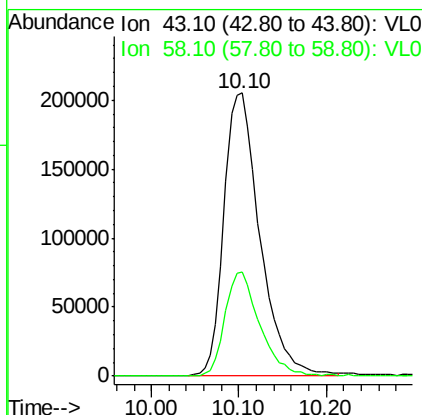
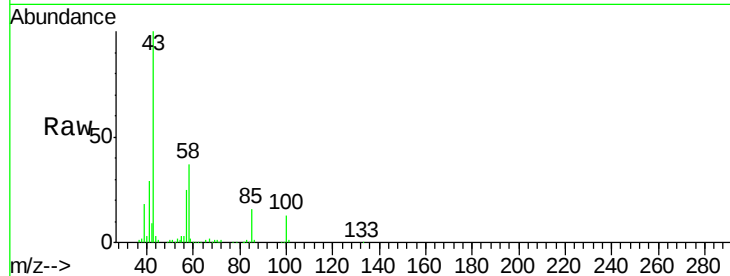




#50
4-Methyl-2-Pentanone
Concen: 3.15 ppbv
RT: 10.10 min Scan# 1151
Delta R.T. 0.02 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

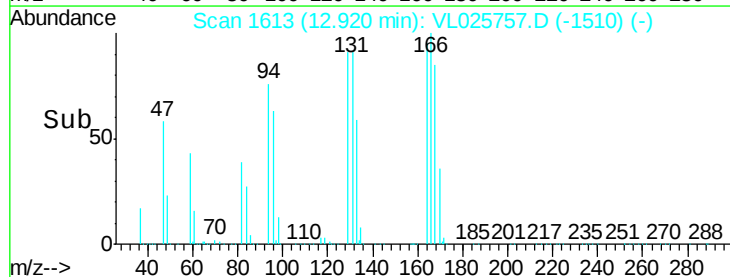
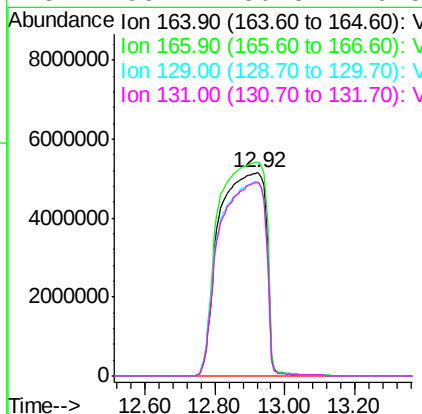
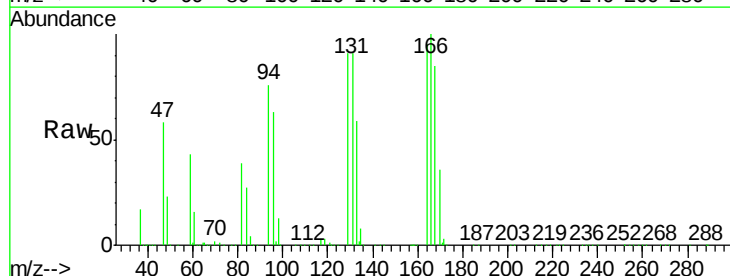
Instrument :
MSVOA_L
ClientSampleId :
A-221-BDUP

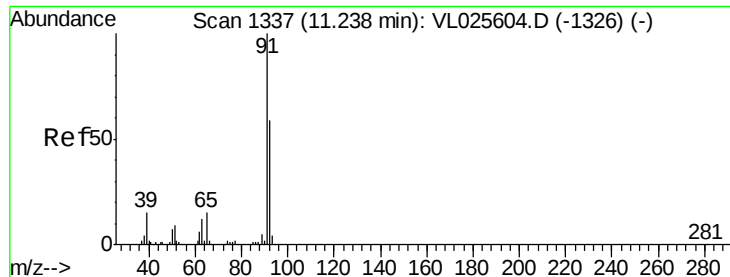
Tot Ion: 43 Resp: 583145
Ion Ratio Lower Upper
43 100
58 36.0 28.5 42.7



#52
Tetrachloroethene
Concen: 438.87 ppbv
RT: 12.92 min Scan# 1613
Delta R.T. 0.13 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

Tgt Ion: 164 Resp: 47766587
Ion Ratio Lower Upper
164 100
166 105.2 102.3 153.5
129 95.8 86.2 129.4
131 95.4 80.3 120.5





#53

Toluene

Concen: 1.16 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

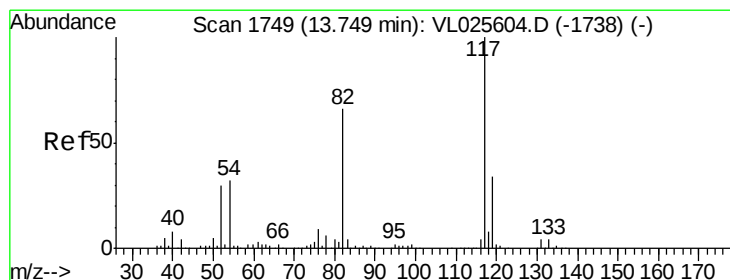
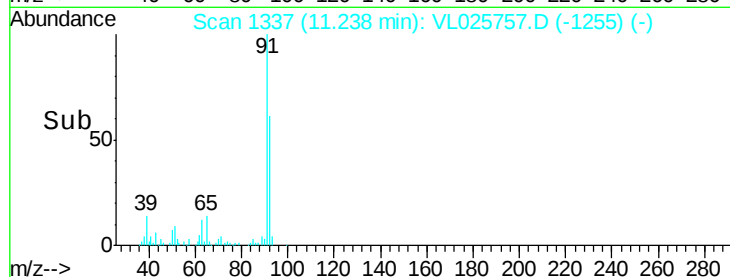
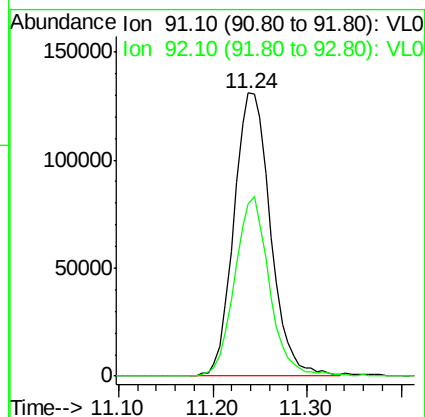
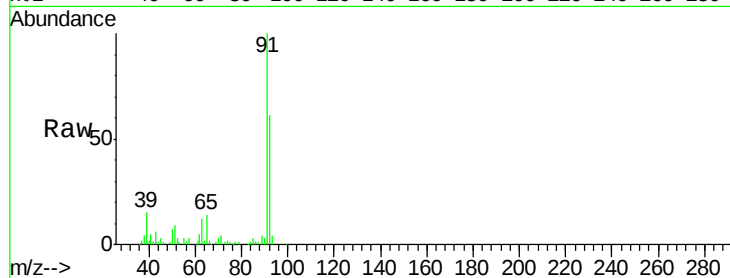
A-221-BDUP

Tot Ion: 91 Resp: 355177

Ion Ratio Lower Upper

91 100

92 60.4 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.80 min Scan# 1757

Delta R.T. 0.05 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

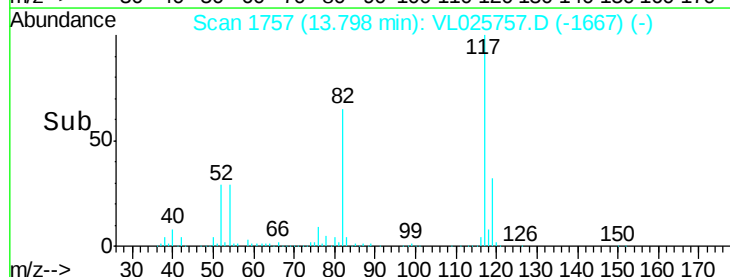
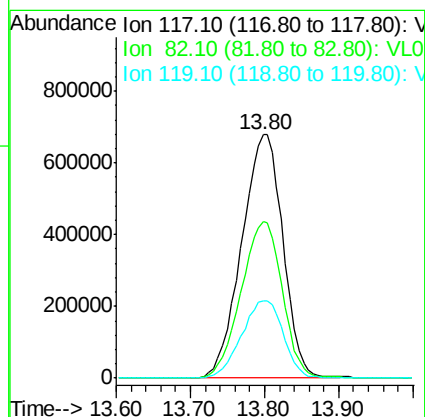
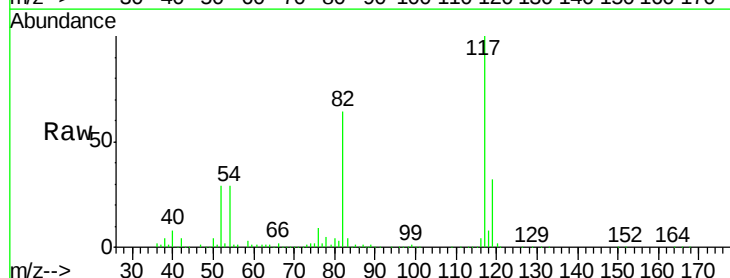
Tgt Ion: 117 Resp: 2628949

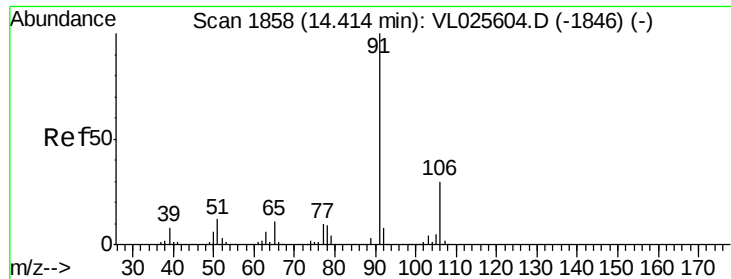
Ion Ratio Lower Upper

117 100

82 0.0 50.5 75.7#

119 32.6 45.1 67.7#





#58

Ethyl Benzene

Concen: 0.33 ppbv

RT: 14.46 min Scan# 1866

Delta R.T. 0.05 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

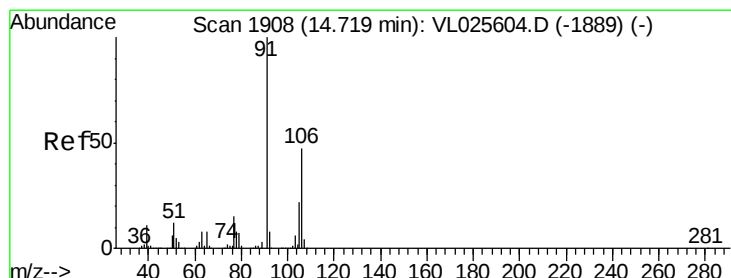
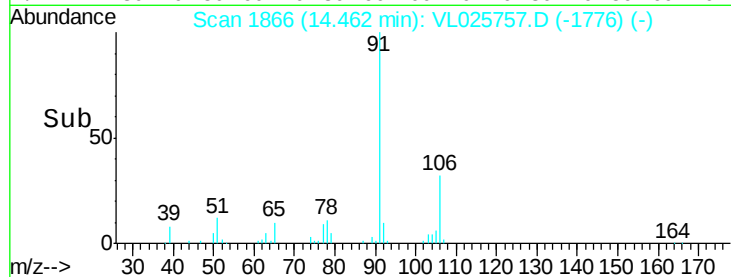
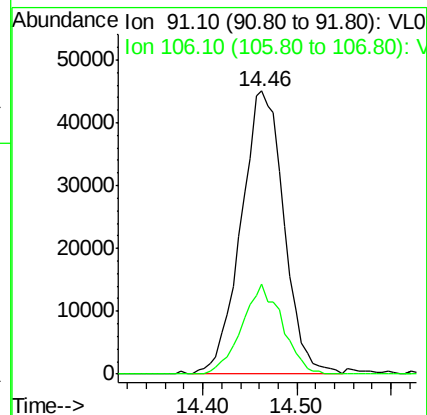
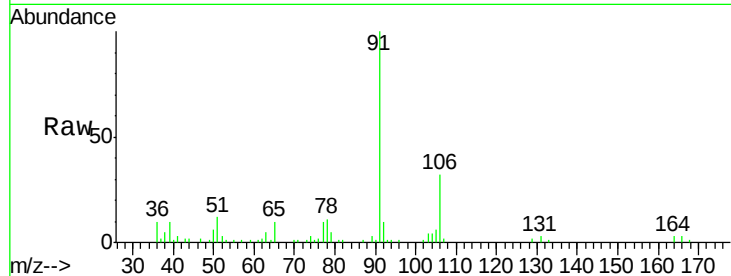
A-221-BDUP

Tot Ion: 91 Resp: 142654

Ion Ratio Lower Upper

91 100

106 32.0 24.2 36.2



#59

m/p-Xylene

Concen: 0.90 ppbv

RT: 14.74 min Scan# 1912

Delta R.T. 0.02 min

Lab File: VL025757.D

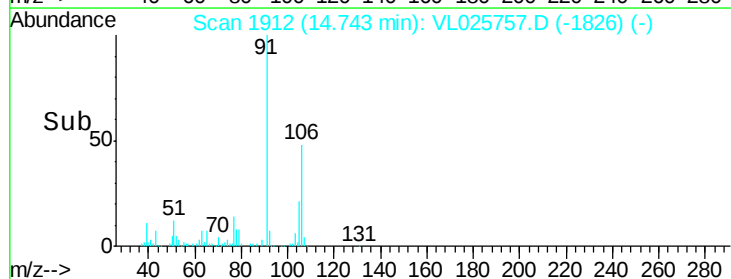
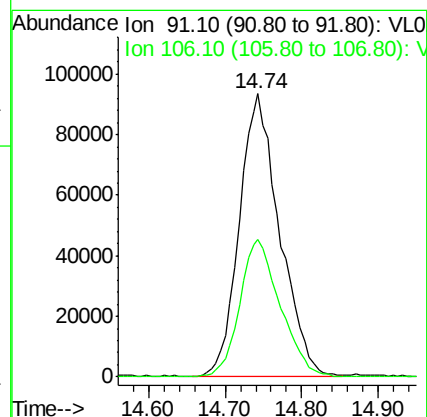
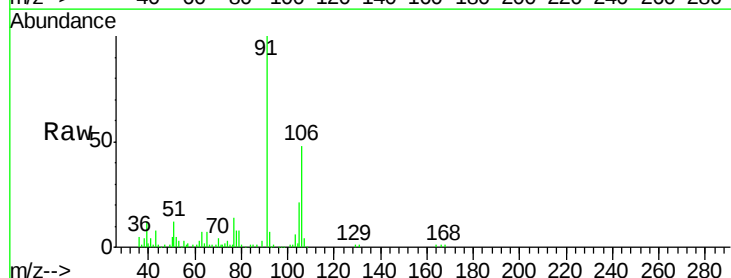
Acq: 27 Jul 2015 17:33

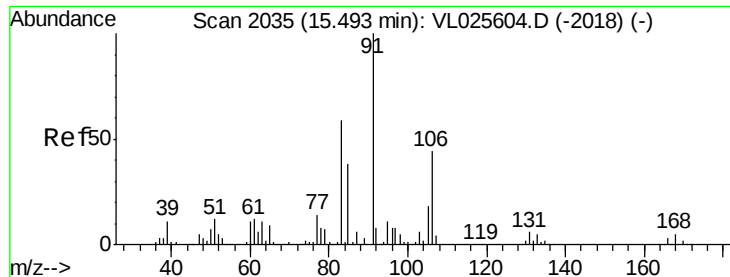
Tgt Ion: 91 Resp: 341872

Ion Ratio Lower Upper

91 100

106 48.5 37.9 56.9

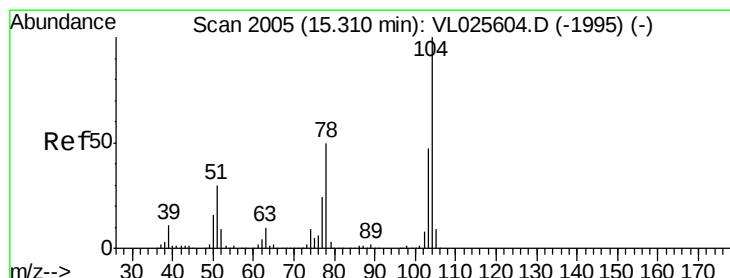
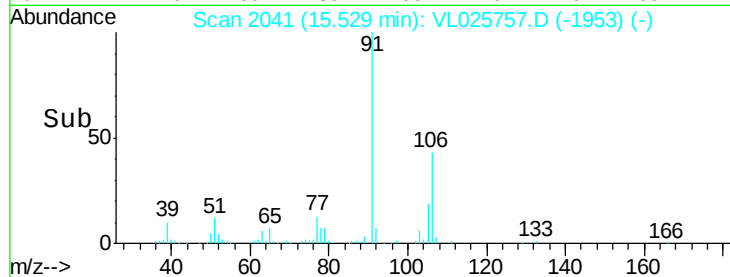
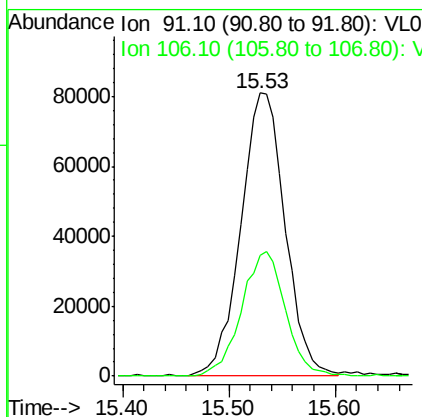
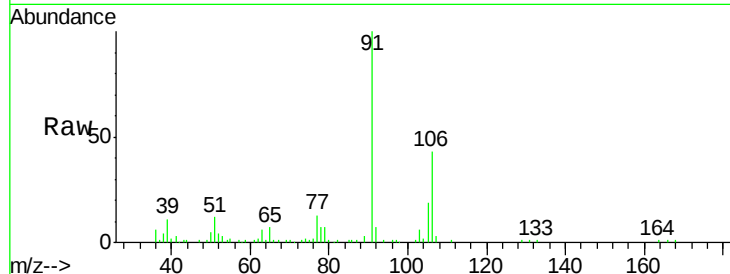




#60
o-Xylene
Concen: 0.57 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. 0.04 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

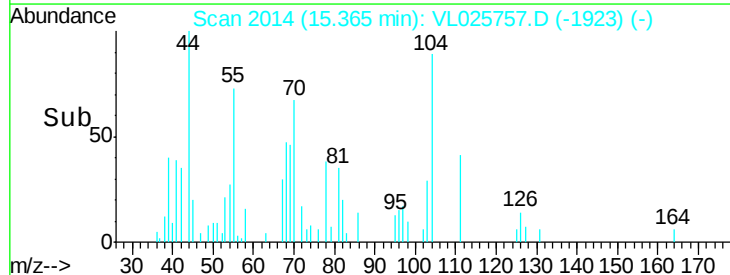
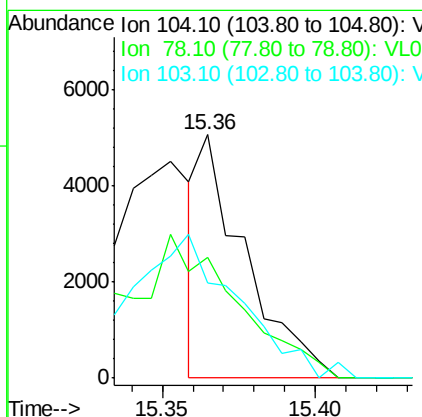
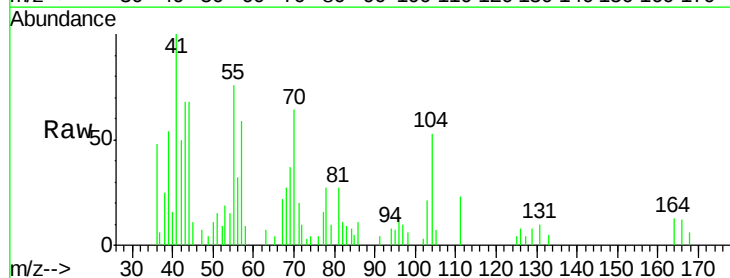
Instrument :
MSVOA_L
ClientSampleId :
A-221-BDUP

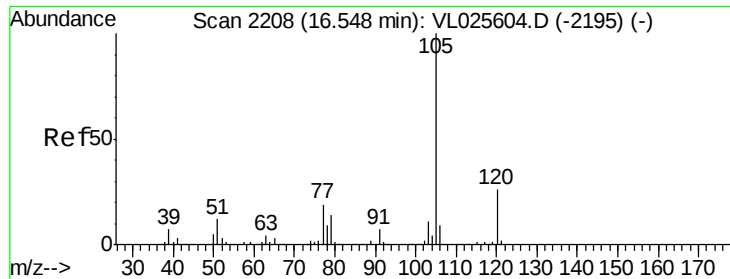
Tot Ion: 91 Resp: 236061
Ion Ratio Lower Upper
91 100
106 43.5 22.1 66.1



#61
Styrene
Concen: 0.04 ppbv
RT: 15.36 min Scan# 2014
Delta R.T. 0.05 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

Tgt Ion: 104 Resp: 5297
Ion Ratio Lower Upper
104 100
78 0.0 40.2 60.4#
103 0.0 37.4 56.2#





#62

Isopropylbenzene

Concen: 0.12 ppbv

RT: 16.57 min Scan# 2212

Delta R.T. 0.02 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

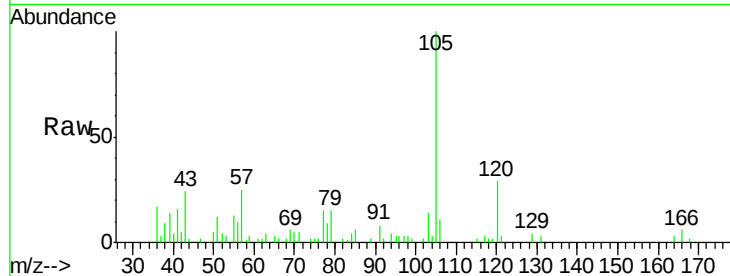
A-221-BDUP

Tot Ion:105 Resp: 63929

Ion Ratio Lower Upper

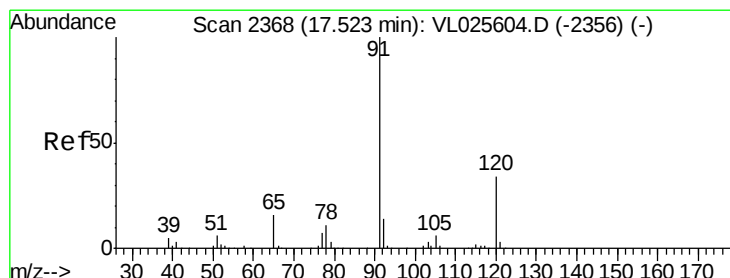
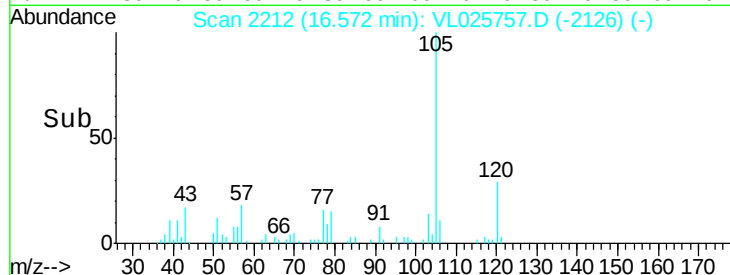
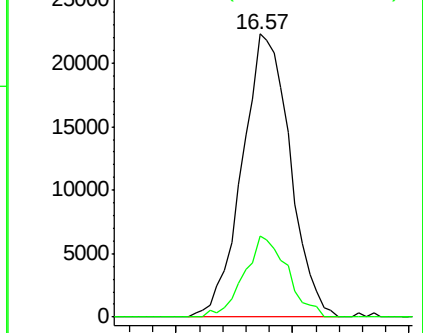
105 100

120 25.8 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.68 ppbv

RT: 17.55 min Scan# 2372

Delta R.T. 0.02 min

Lab File: VL025757.D

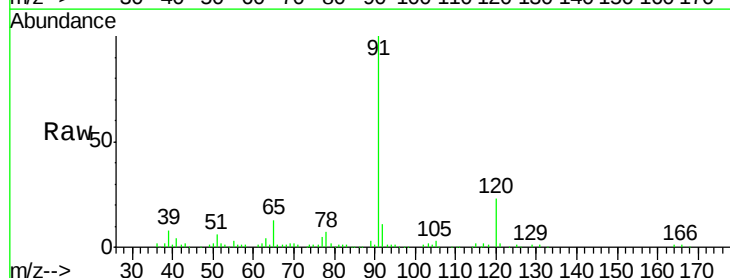
Acq: 27 Jul 2015 17:33

Tgt Ion:120 Resp: 99342

Ion Ratio Lower Upper

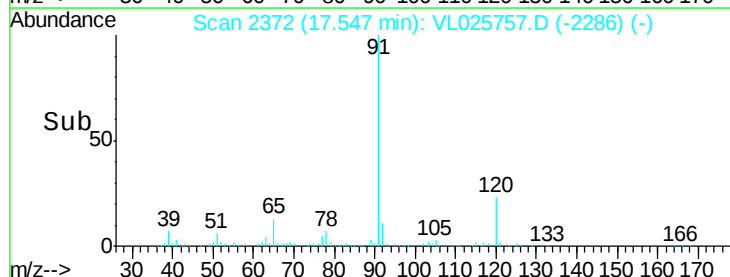
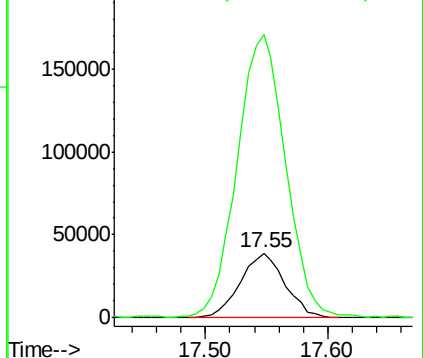
120 100

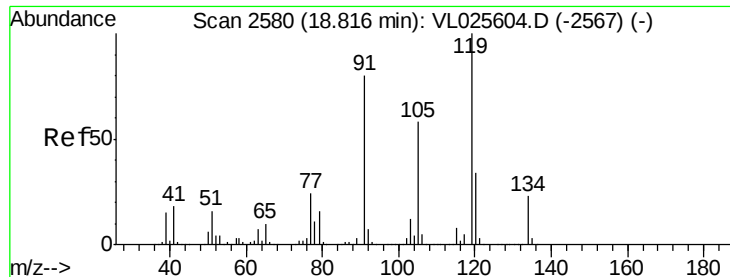
91 479.3 370.5 555.7



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.32 ppbv

RT: 18.85 min Scan# 2586

Delta R.T. 0.04 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

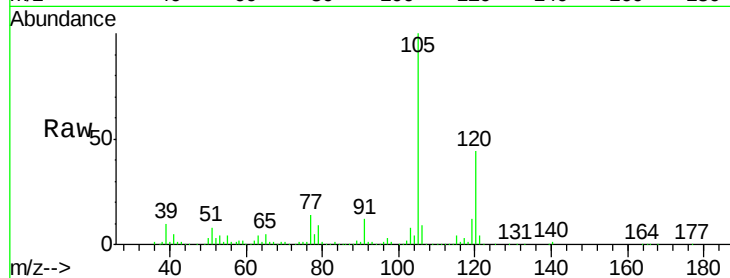
Tot Ion:119 Resp: 170749

Ion Ratio Lower Upper

119 100

91 102.6 64.5 96.7#

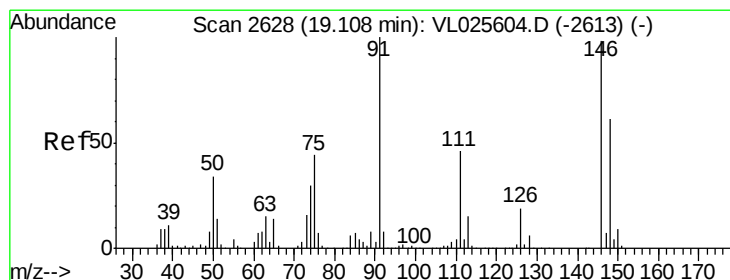
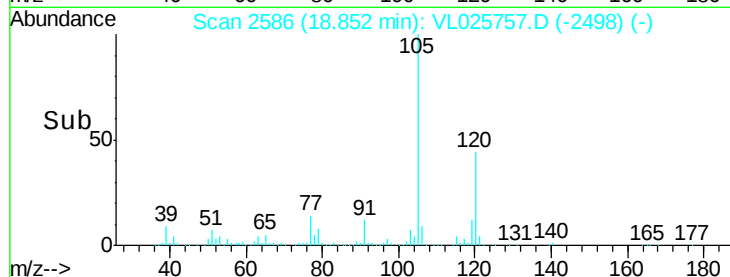
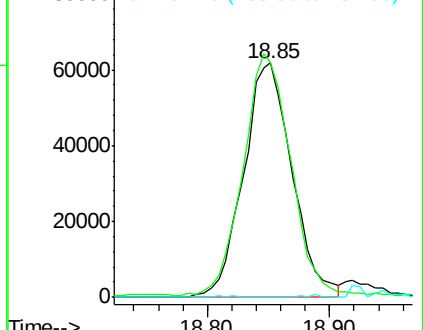
134 0.3 17.4 26.0#



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



#66

Benzyl Chloride

Concen: 0.10 ppbv

RT: 19.33 min Scan# 2664

Delta R.T. 0.22 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

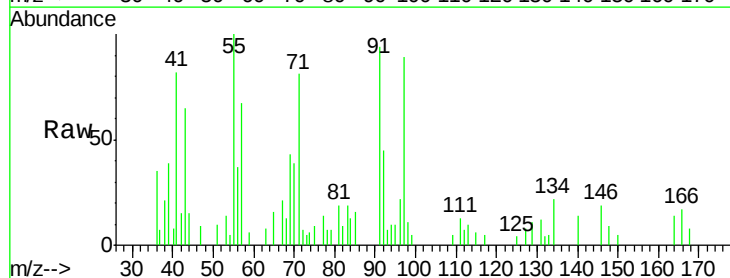
Tgt Ion: 91 Resp: 18855

Ion Ratio Lower Upper

91 100

126 10.8 14.5 21.7#

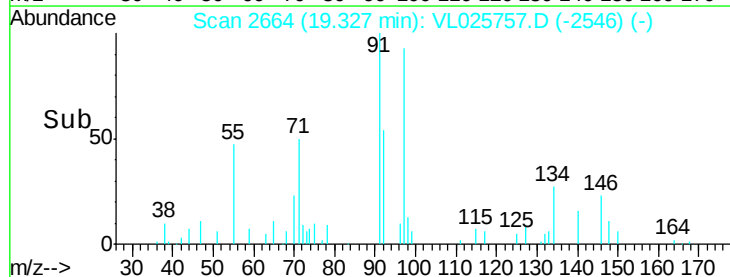
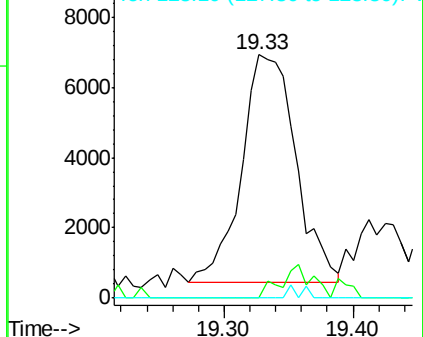
128 1.4 4.6 7.0#

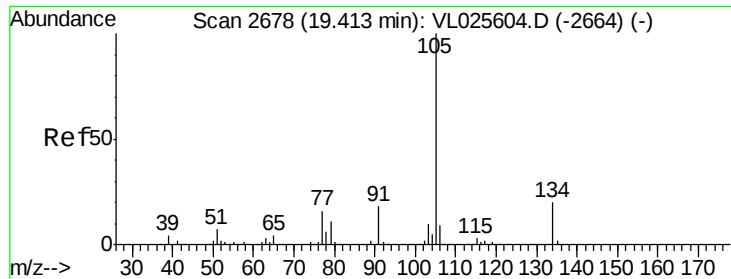


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.04 ppbv

RT: 19.42 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

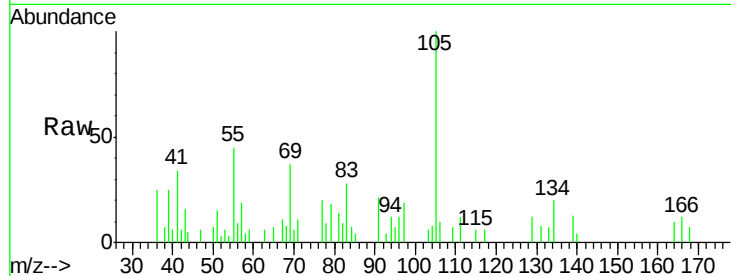
A-221-BDUP

Tot Ion:105 Resp: 26160

Ion Ratio Lower Upper

105 100

134 20.4 15.4 23.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

12000

10000

8000

6000

4000

2000

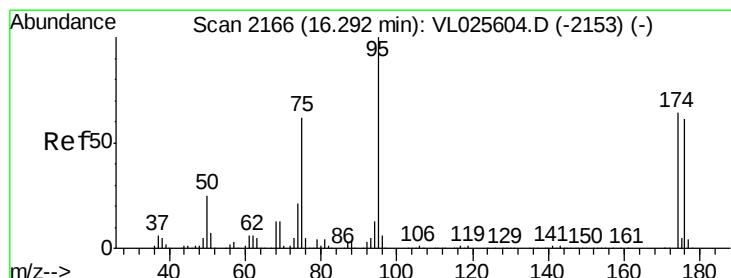
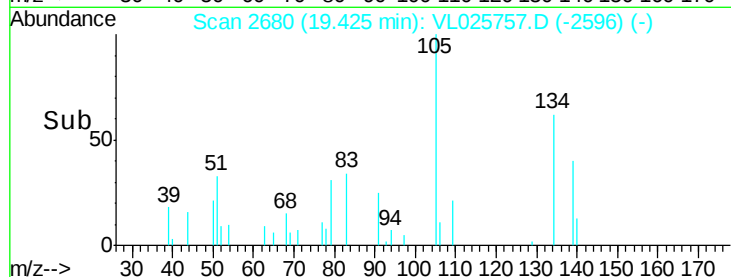
0

19.42

19.40

19.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 8.91 ppbv

RT: 16.32 min Scan# 2171

Delta R.T. 0.03 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

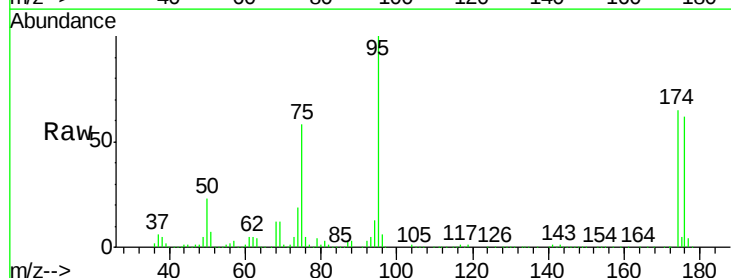
Tgt Ion: 95 Resp: 1975344

Ion Ratio Lower Upper

95 100

174 64.1 52.0 78.0

175 4.9 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

800000

600000

400000

200000

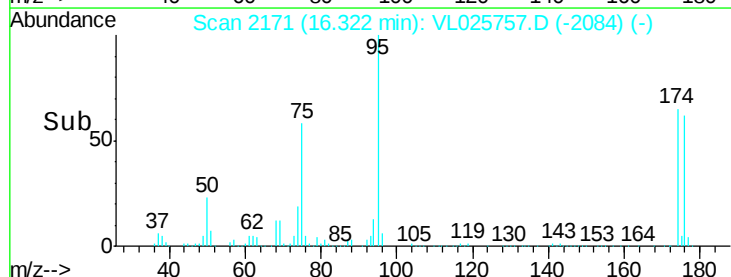
0

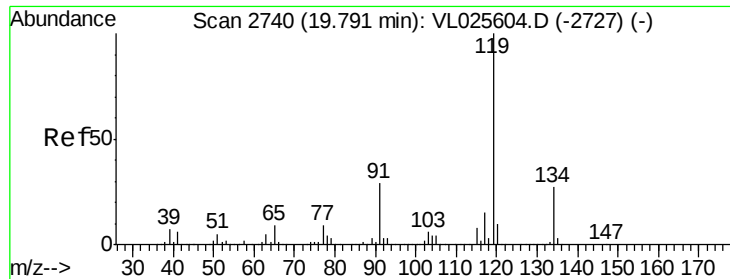
16.32

16.20

16.40

Time-->

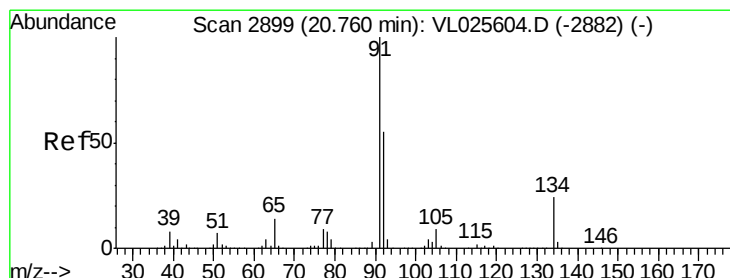
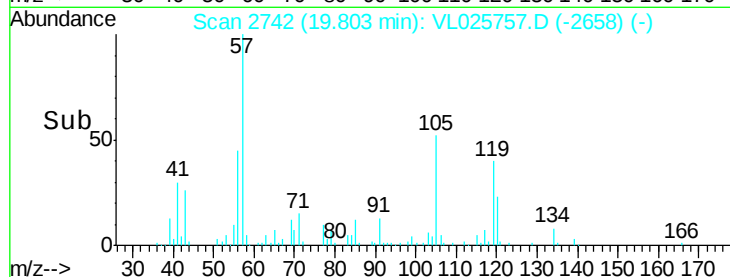
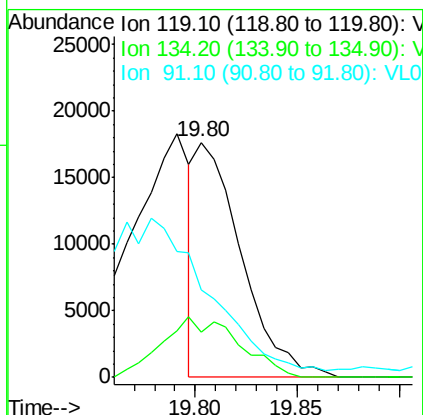
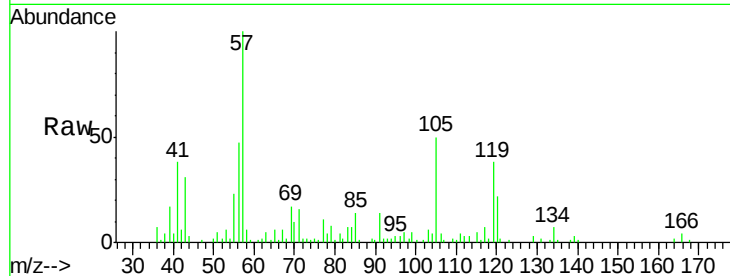




#69
p-Isopropyltoluene
Concen: 0.04 ppbv
RT: 19.80 min Scan# 2742
Delta R.T. 0.01 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

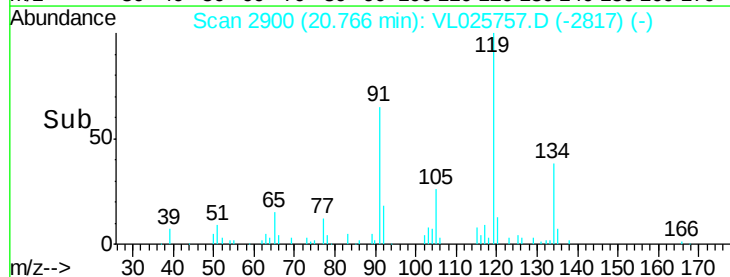
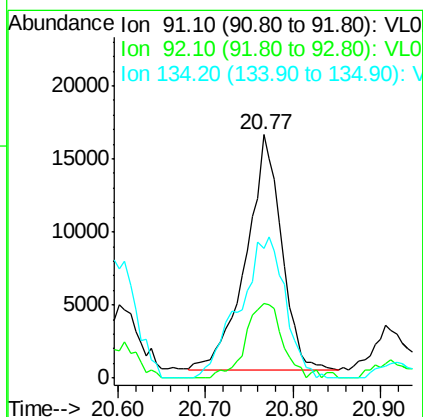
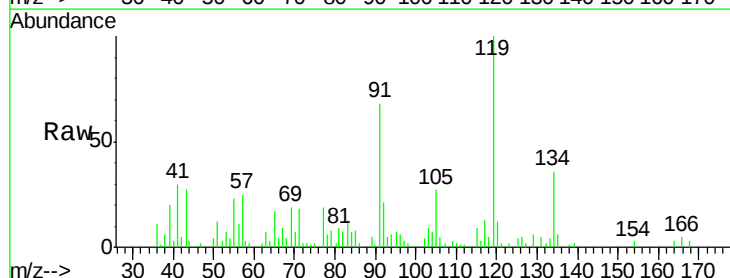
Instrument :
MSVOA_L
ClientSampleID :
A-221-BDUP

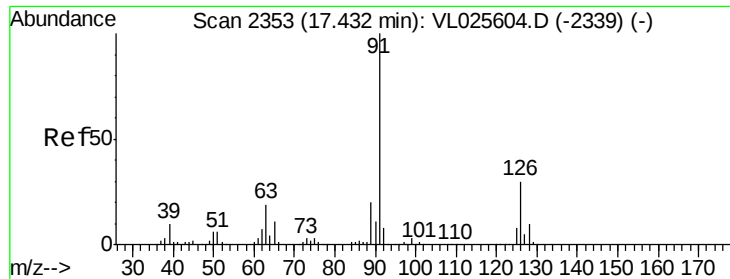
Tot Ion:119 Resp: 27274
Ion Ratio Lower Upper
119 100
134 44.1 20.7 31.1#
91 0.0 22.6 34.0#



#70
n-Butylbenzene
Concen: 0.07 ppbv
RT: 20.77 min Scan# 2900
Delta R.T. 0.01 min
Lab File: VL025757.D
Acq: 27 Jul 2015 17:33

Tgt Ion: 91 Resp: 45574
Ion Ratio Lower Upper
91 100
92 33.8 44.3 66.5#
134 77.0 19.4 29.2#





#71

2-Chlorotoluene

Concen: 0.08 ppbv

RT: 17.29 min Scan# 2330

Delta R.T. -0.14 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

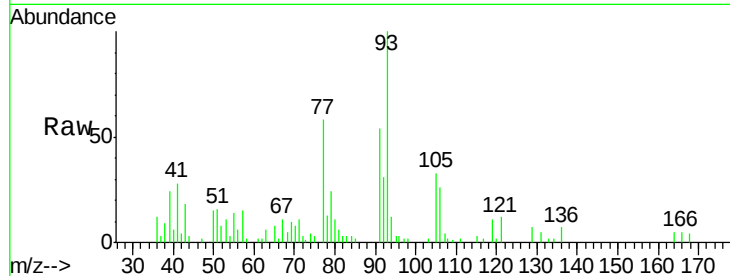
A-221-BDUP

Tot Ion: 91 Resp: 32395

Ion Ratio Lower Upper

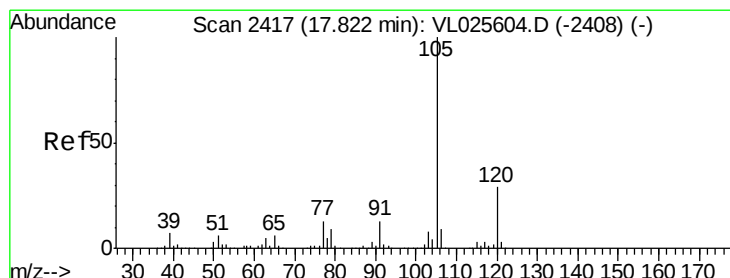
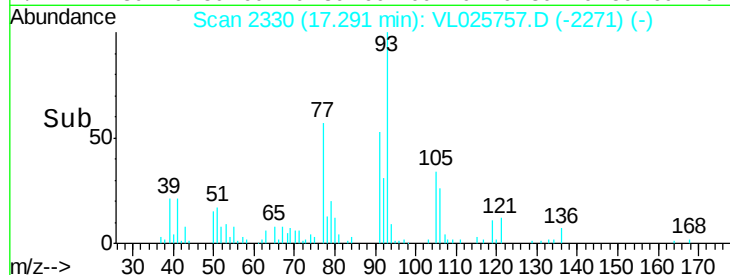
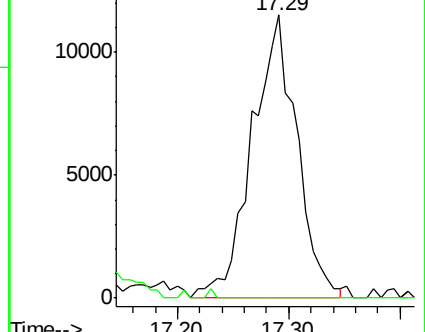
91 100

126 36.9 12.2 49.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): VL0



#72

4-Ethyltoluene

Concen: 1.30 ppbv

RT: 17.84 min Scan# 2420

Delta R.T. 0.02 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Tgt Ion: 105 Resp: 592487

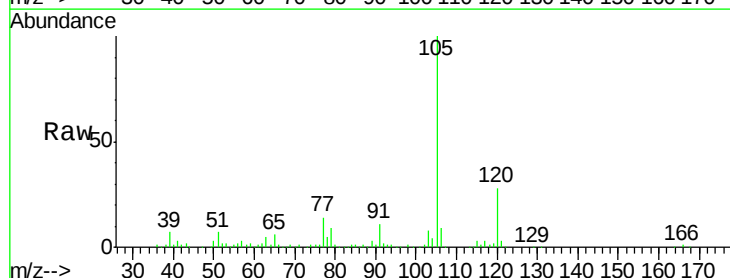
Ion Ratio Lower Upper

105 100

120 30.1 23.9 35.9

91 10.8 10.3 15.5

77 13.8 10.9 16.3

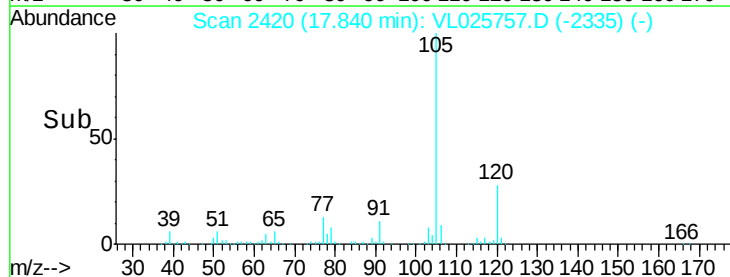
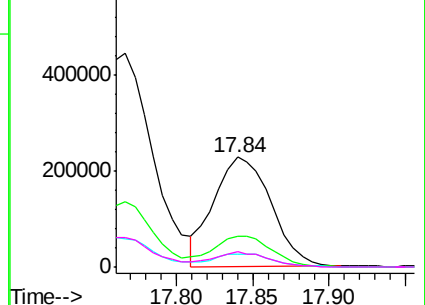


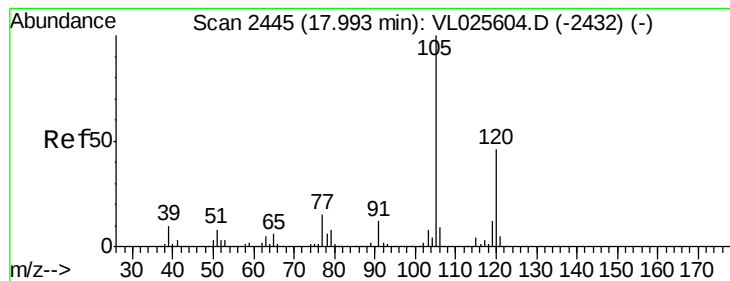
Abundance Ion 105.10 (104.80 to 105.80): VL0

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.98 ppbv

RT: 18.01 min Scan# 2448

Delta R.T. 0.02 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

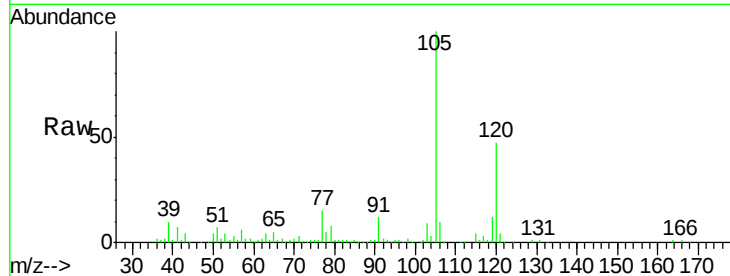
A-221-BDUP

Tot Ion:105 Resp: 436058

Ion Ratio Lower Upper

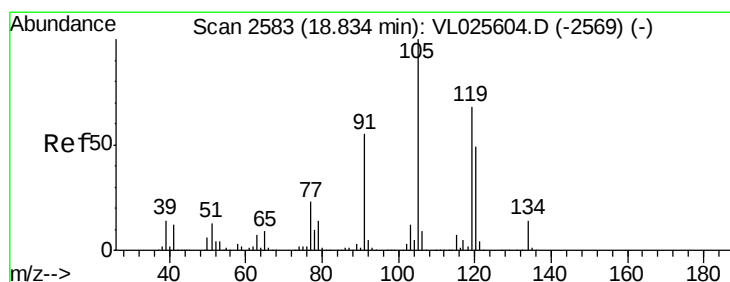
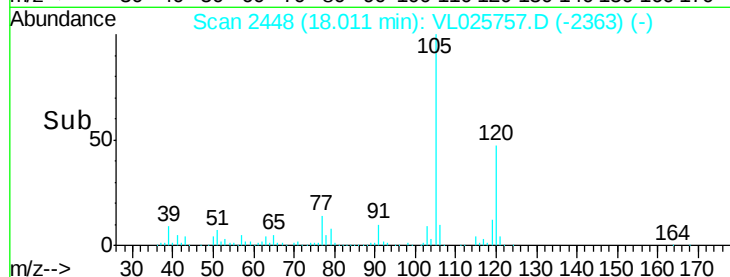
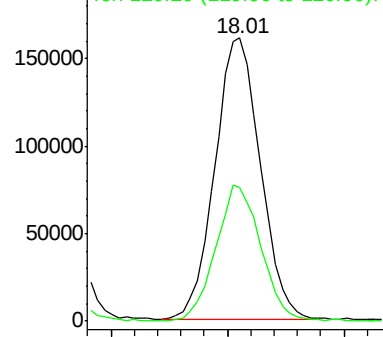
105 100

120 47.1 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: 2.91 ppbv

RT: 18.85 min Scan# 2586

Delta R.T. 0.02 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Tgt Ion:105 Resp: 1452995

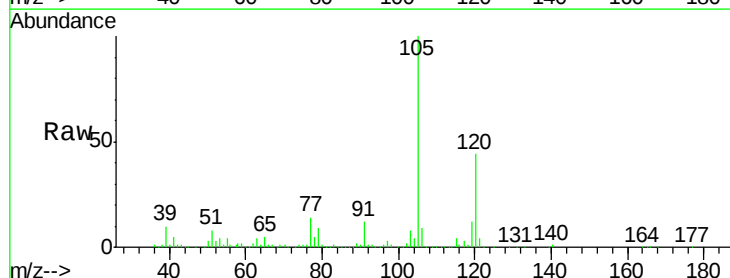
Ion Ratio Lower Upper

105 100

120 44.2 39.3 58.9

91 11.7 43.8 65.6#

77 14.2 18.3 27.5#

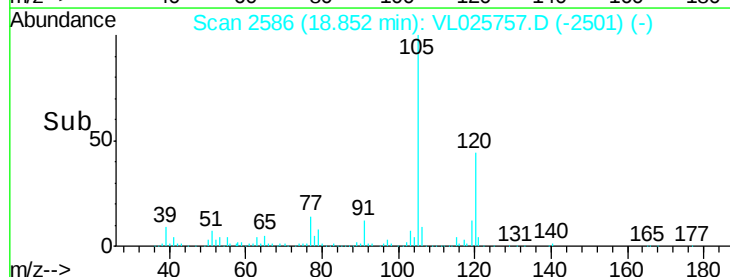
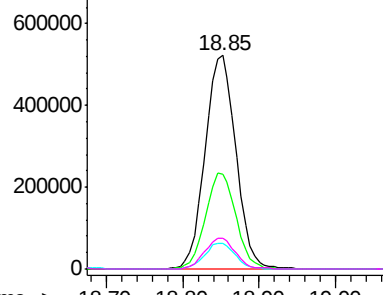


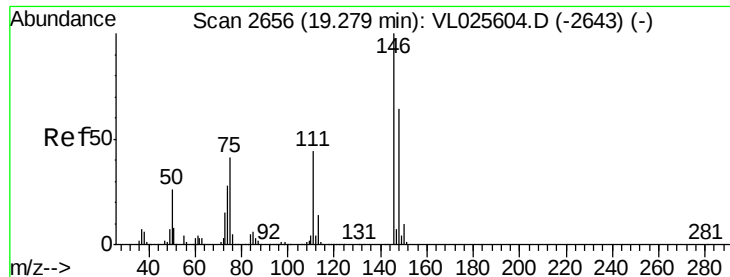
Abundance Ion 105.10 (104.80 to 105.80): V

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





#76

1,4-Dichlorobenzene

Concen: 0.06 ppbv

RT: 19.29 min Scan# 2658

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

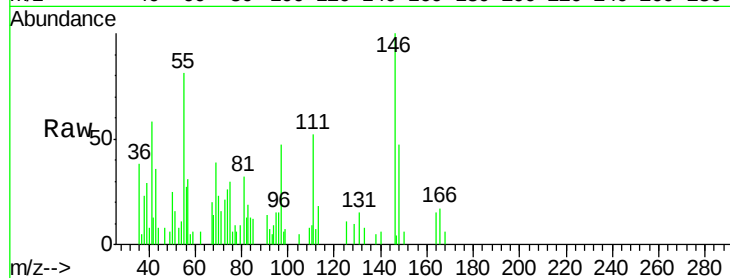
Tot Ion:146 Resp: 19822

Ion Ratio Lower Upper

146 100

111 112.5 22.1 66.1#

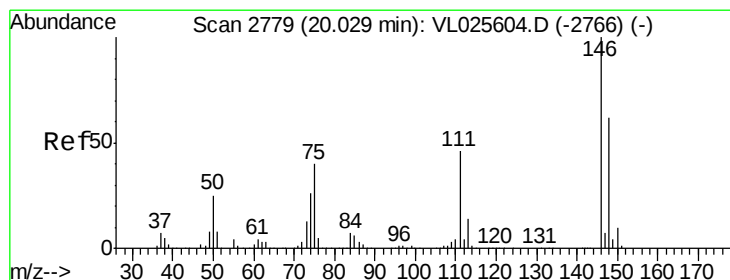
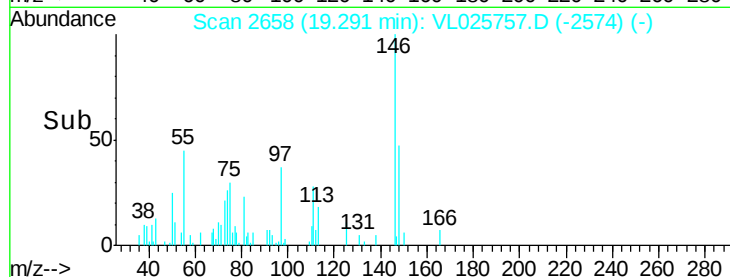
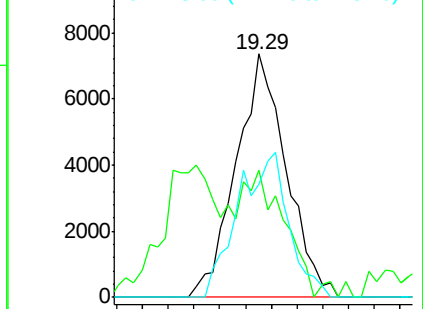
148 60.3 31.9 95.9



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: 0.05 ppbv

RT: 20.04 min Scan# 2781

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

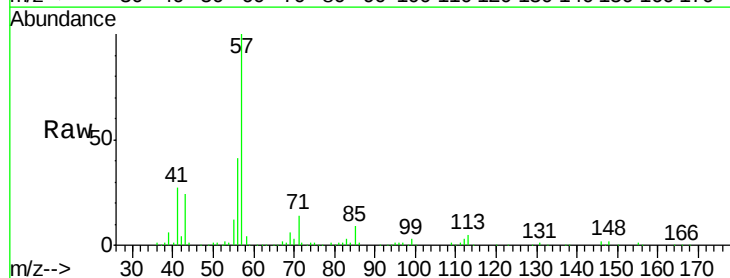
Tgt Ion:146 Resp: 15796

Ion Ratio Lower Upper

146 100

111 70.0 23.4 70.3

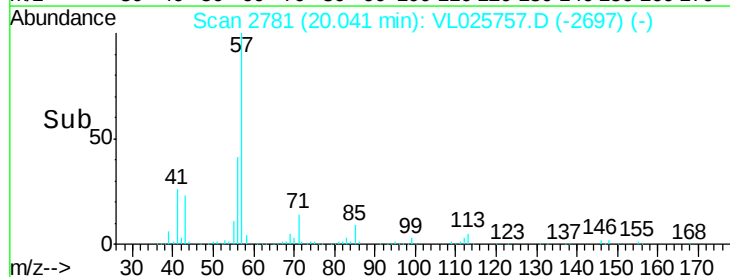
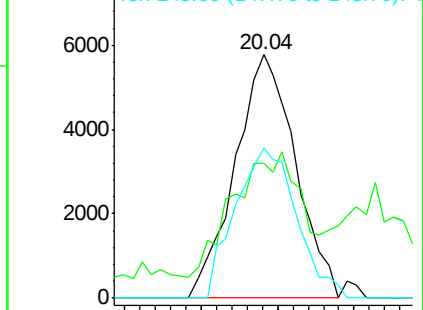
148 62.9 31.6 94.8

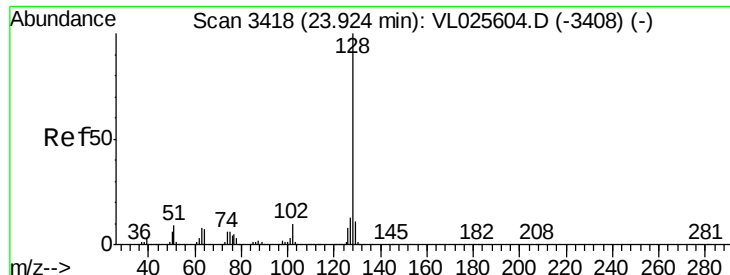


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.19 ppbv

RT: 23.94 min Scan# 3420

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

Instrument :

MSVOA_L

ClientSampleId :

A-221-BDUP

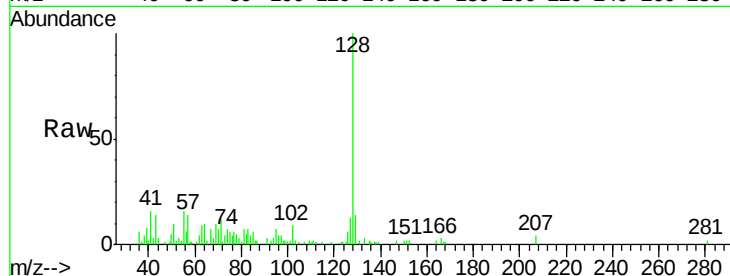
Tot Ion:128 Resp: 91878

Ion Ratio Lower Upper

128 100

127 12.8 10.8 16.2

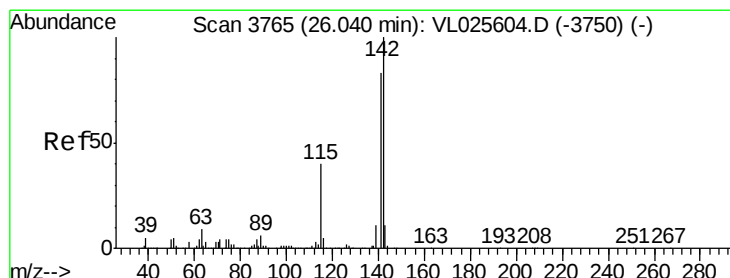
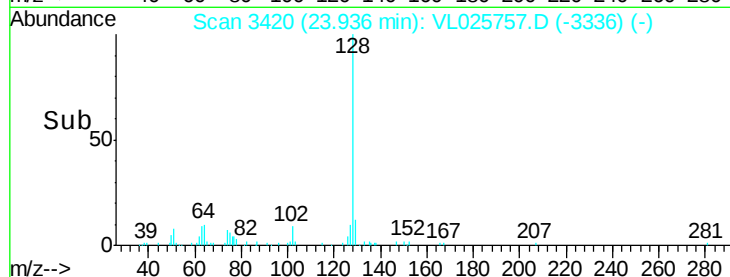
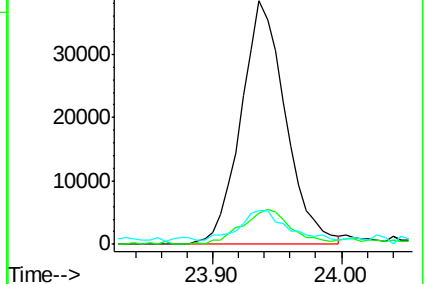
129 12.0 9.0 13.4



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: 0.03 ppbv

RT: 26.05 min Scan# 3766

Delta R.T. 0.01 min

Lab File: VL025757.D

Acq: 27 Jul 2015 17:33

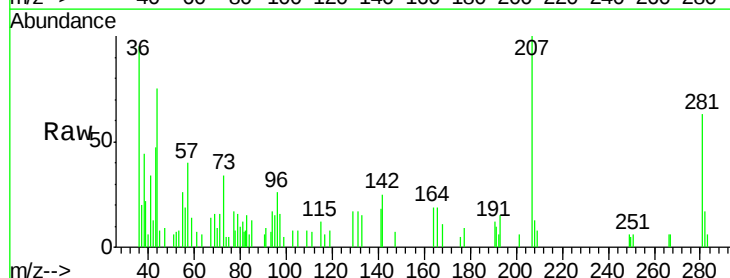
Tgt Ion:142 Resp: 4308

Ion Ratio Lower Upper

142 100

141 88.1 67.1 100.7

115 78.2 33.9 50.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

