

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026843.D
 Acq On : 10 Feb 2016 6:53
 Operator : SY/AP
 Sample : H1404-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Feb 10 07:57:05 2016

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 03:14:04 2016

QLast Update : Wed Feb 10 03:14:04 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	1469737	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	4303993	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.79	117	2780811	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2480143	12.42	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	124.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.67	85	192304	0.61	ppbv	99
3) Chlorodifluoromethane	3.59	51	1066300	4.47	ppbv #	79
4) Chloromethane	3.78	50	57254	0.61	ppbv	98
9) Propene	3.85	41	314520	4.88	ppbv	95
10) Heptane	9.40	43	553151	2.62	ppbv	99
11) Trichlorofluoromethane	4.73	101	146216	0.39	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	5.34	101	22624	0.08	ppbv	97
13) Ethanol	4.35	45	1543606	139.33	ppbv	97
15) Acetone	4.64	43	3574646	17.70	ppbv #	67
16) 1,3-Butadiene	3.98	39	83574	1.06	ppbv #	36
17) tert-Butyl alcohol	5.18	59	15172	0.11	ppbv #	72
19) Isopropyl Alcohol	4.79	45	584829	8.12	ppbv	100
20) Methylene Chloride	5.18	84	53991	0.52	ppbv #	95
21) Allyl Chloride	5.21	41	236175	1.89	ppbv #	51
23) Vinyl Acetate	6.05	43	1687295	6.16	ppbv #	48
25) Ethyl Acetate	6.70	43	716956	2.37	ppbv #	80
26) Hexane	6.70	57	1056459	6.19	ppbv #	50
27) Carbon Disulfide	5.43	76	9935	0.03	ppbv #	1
28) Methyl tert-Butyl Ether	6.01	73	8412	0.03	ppbv #	1
29) Chloroform	6.78	83	10855	0.04	ppbv	87
30) Cyclohexane	8.32	84	316984	2.28	ppbv	91
34) 2-Butanone	6.24	43	139489	0.66	ppbv	97
35) Carbon Tetrachloride	8.20	117	24284	0.08	ppbv #	85
36) Benzene	8.06	78	959543	2.81	ppbv	97
37) 1,2-Dichloroethane	7.41	62	9980	0.05	ppbv #	61
38) Trichloroethene	9.11	130	25524	0.16	ppbv	94
41) Tetrahydrofuran	7.18	42	47791	0.46	ppbv #	77
42) Bromodichloromethane	9.05	83	39630	0.14	ppbv #	27
43) Methyl Methacrylate	9.33	69	15993	0.13	ppbv #	1
44) 2,2,4-Trimethylpentane	9.13	57	2813913	4.82	ppbv #	89
50) 4-Methyl-2-Pentanone	10.15	43	283079	1.14	ppbv	97
51) 2-Hexanone	11.68	43	12832	0.06	ppbv #	27
52) Tetrachloroethene	12.84	164	4169	0.03	ppbv #	87
53) Toluene	11.28	91	5844882	15.21	ppbv	98
57) Chlorobenzene	13.88	112	40221	0.17	ppbv #	37
58) Ethyl Benzene	14.46	91	1281753	3.83	ppbv	99
59) m/p-Xylene	14.73	91	3938200	13.77	ppbv	99
60) o-Xylene	15.54	91	1442532	4.61	ppbv	98
61) Styrene	15.36	104	81410	0.77	ppbv	99
62) Isopropylbenzene	16.59	105	192967	0.51	ppbv	100
64) n-propylbenzene	17.57	120	114722	1.19	ppbv	85

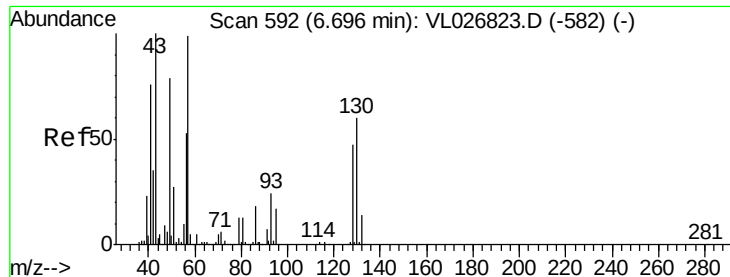
Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026843.D
 Acq On : 10 Feb 2016 6:53
 Operator : SY/AP
 Sample : H1404-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Feb 10 07:57:05 2016
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 03:14:04 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	18.88	119	271939	0.79	ppbv #	73
66) Benzyl Chloride	19.36	91	31863	0.28	ppbv #	67
67) sec-Butylbenzene	19.46	105	100355	0.22	ppbv	98
69) p-Isopropyltoluene	19.71	119	119000	0.33	ppbv	97
70) n-Butylbenzene	20.80	91	311810	0.90	ppbv #	48
71) 2-Chlorotoluene	17.57	91	544697	2.12	ppbv #	44
72) 4-Ethyltoluene	17.86	105	726576	2.52	ppbv	98
73) 1,3,5-Trimethylbenzene	18.03	105	612058	2.18	ppbv	96
74) 1,2,4-Trimethylbenzene	18.88	105	2340808	7.33	ppbv #	68
76) 1,4-Dichlorobenzene	19.32	146	7516	0.04	ppbv #	1
79) Naphthalene	23.97	128	353458	2.30	ppbv	100
80) Naphthalene,2-methyl-	26.41	142	88276	1.42	ppbv	97

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

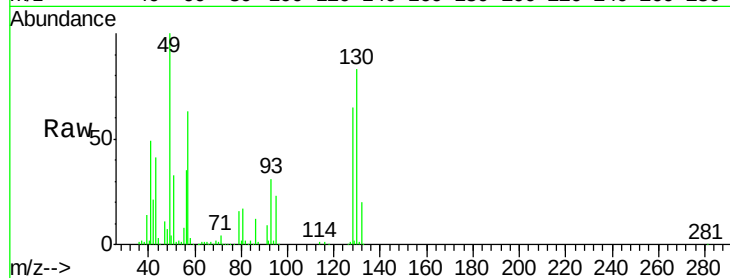
Tgt Ion: 49 Resp: 1469737

Ion Ratio Lower Upper

49 100

128 63.4 29.7 89.1

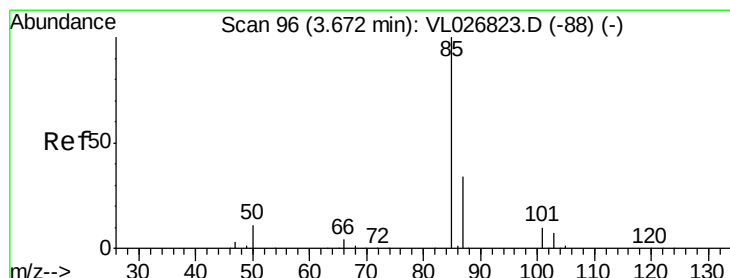
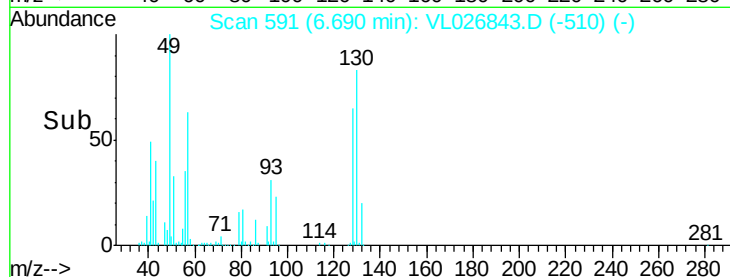
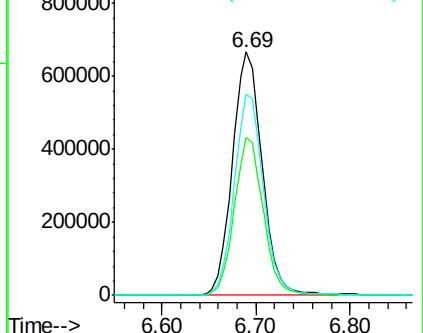
130 82.0 38.3 114.8



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: 0.61 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL026843.D

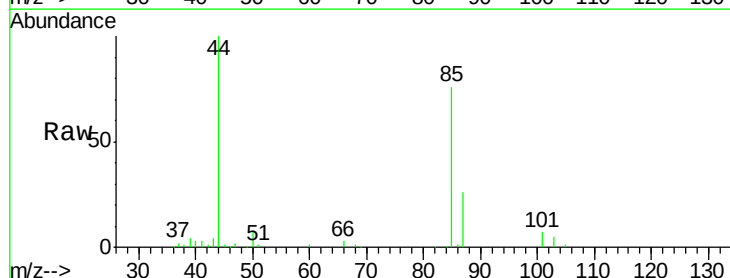
Acq: 10 Feb 2016 6:53

Tgt Ion: 85 Resp: 192304

Ion Ratio Lower Upper

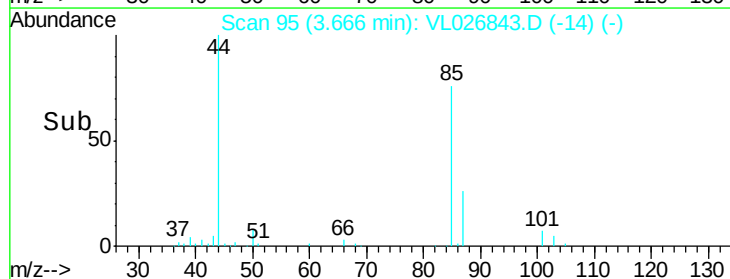
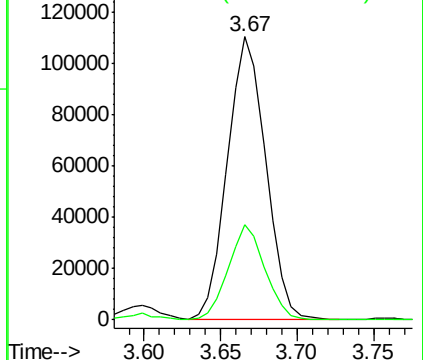
85 100

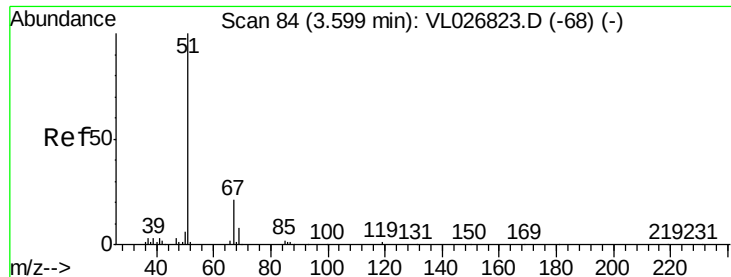
87 33.7 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.47 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

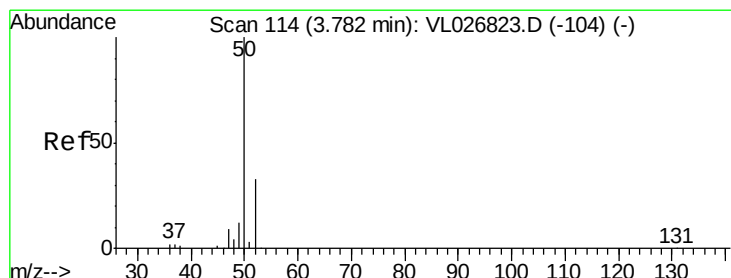
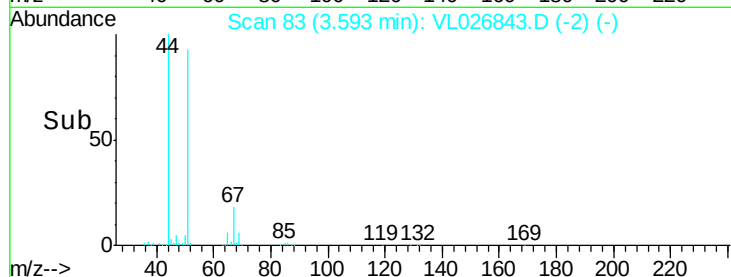
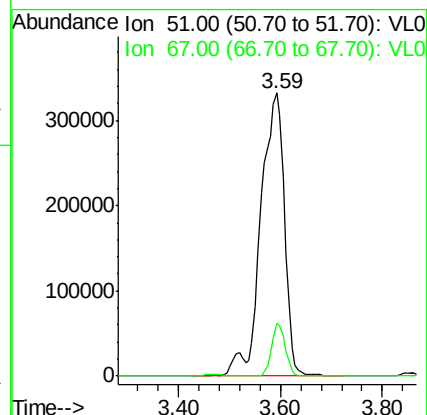
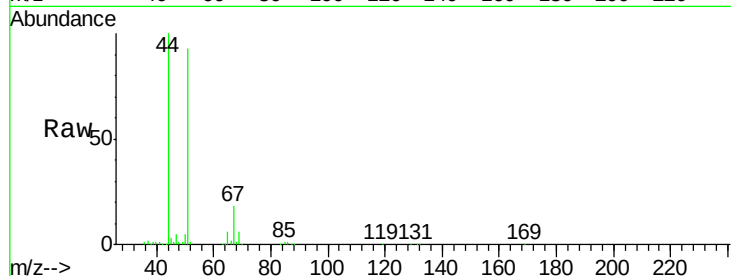
IA-1

Tgt Ion: 51 Resp: 1066300

Ion Ratio Lower Upper

51 100

67 10.9 16.4 24.6#



#4

Chloromethane

Concen: 0.61 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL026843.D

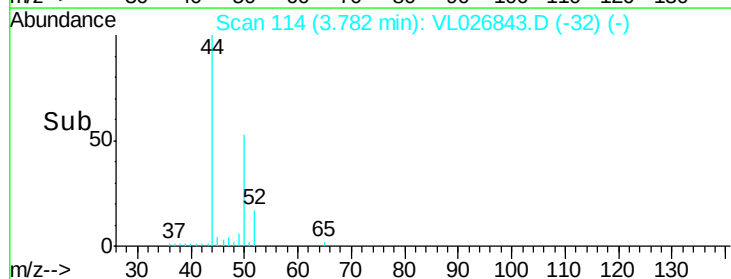
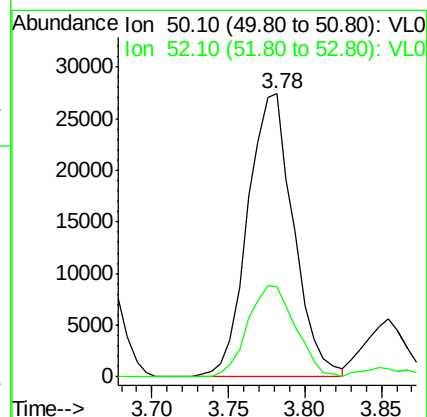
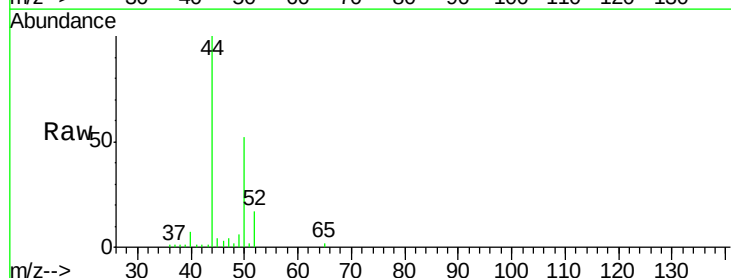
Acq: 10 Feb 2016 6:53

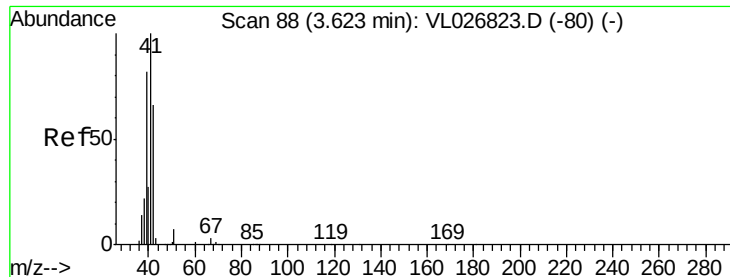
Tgt Ion: 50 Resp: 57254

Ion Ratio Lower Upper

50 100

52 31.9 26.3 39.5





#9

Propene

Concen: 4.88 ppbv

RT: 3.85 min Scan# 126

Delta R.T. 0.23 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

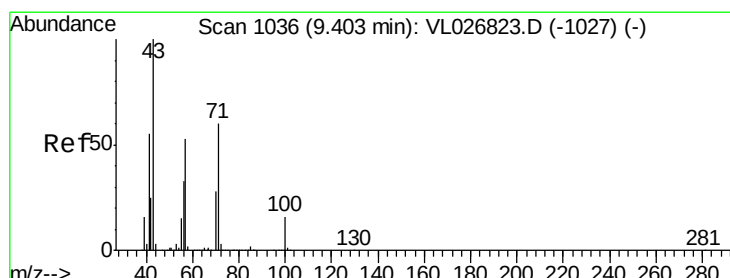
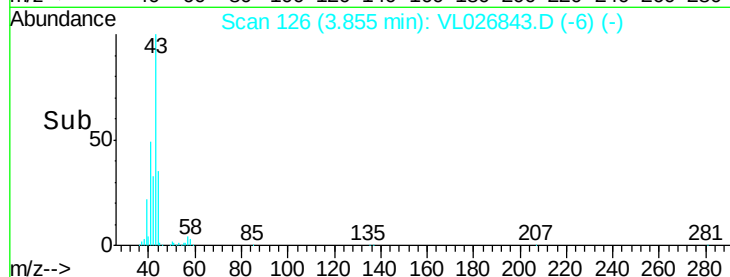
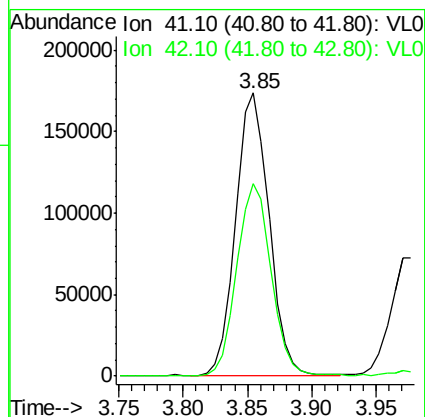
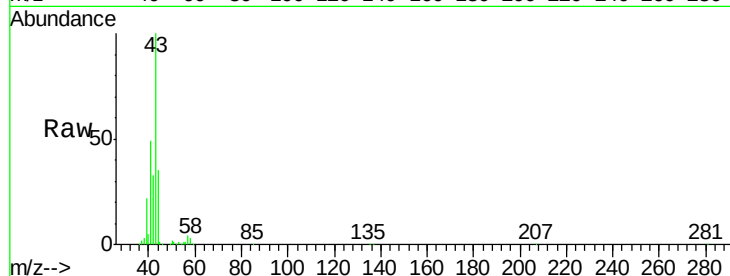
IA-1

Tgt Ion: 41 Resp: 314520

Ion Ratio Lower Upper

41 100

42 70.3 52.8 79.2



#10

Heptane

Concen: 2.62 ppbv

RT: 9.40 min Scan# 1035

Delta R.T. -0.01 min

Lab File: VL026843.D

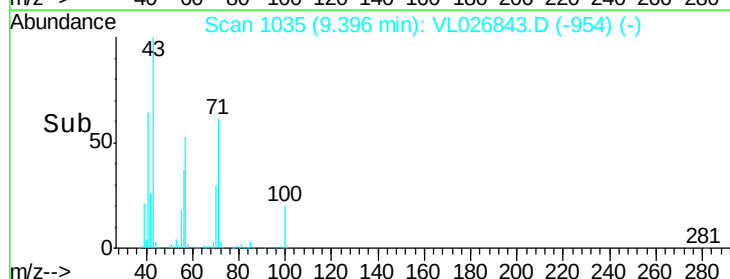
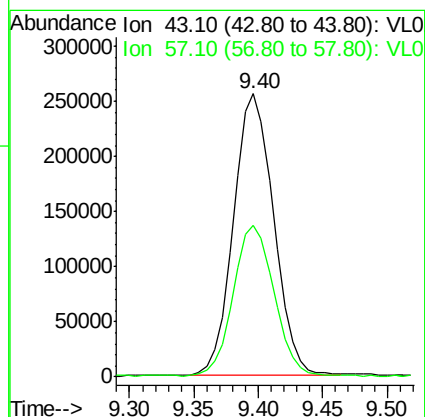
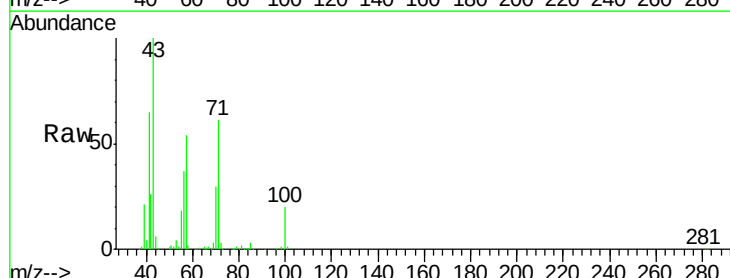
Acq: 10 Feb 2016 6:53

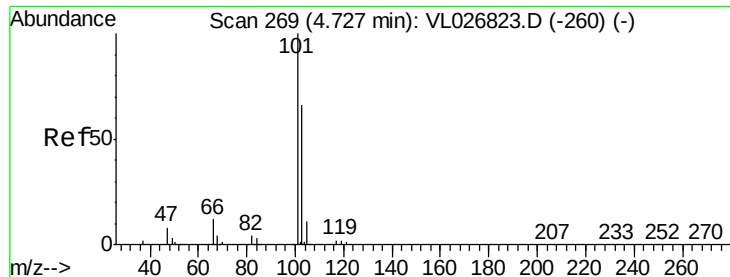
Tgt Ion: 43 Resp: 553151

Ion Ratio Lower Upper

43 100

57 54.6 44.0 66.0





#11

Trichlorofluoromethane

Concen: 0.39 ppbv

RT: 4.73 min Scan# 269

Delta R.T. -0.00 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

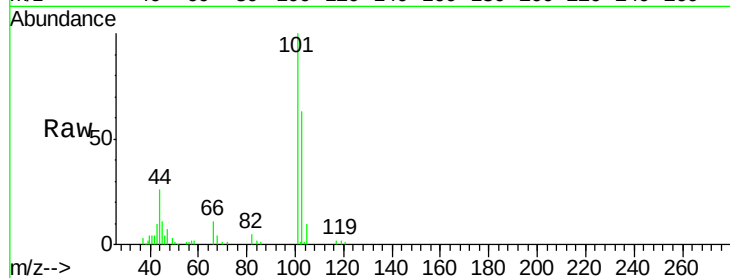
IA-1

Tgt Ion:101 Resp: 146216

Ion Ratio Lower Upper

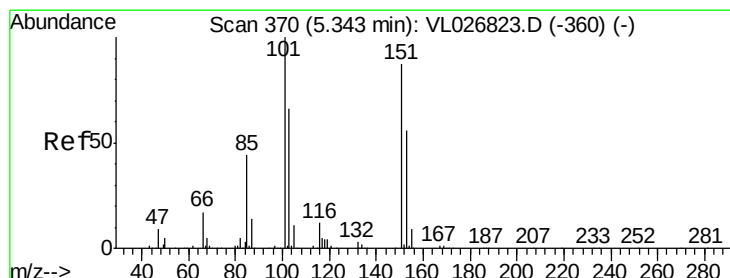
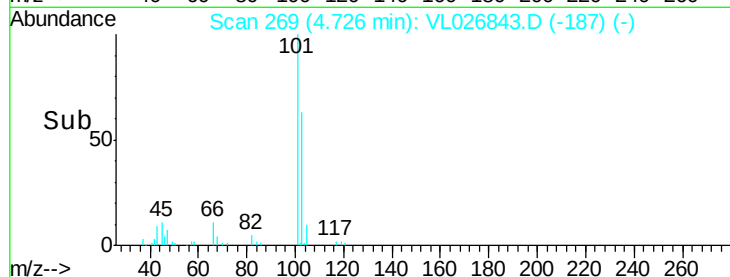
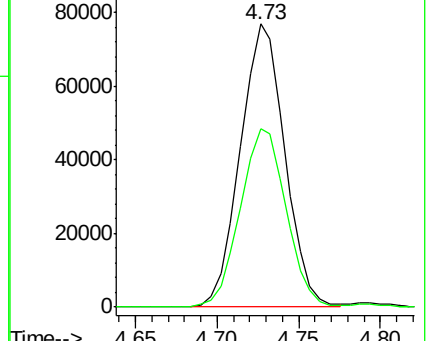
101 100

103 63.0 52.7 79.1



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: 0.08 ppbv

RT: 5.34 min Scan# 369

Delta R.T. -0.01 min

Lab File: VL026843.D

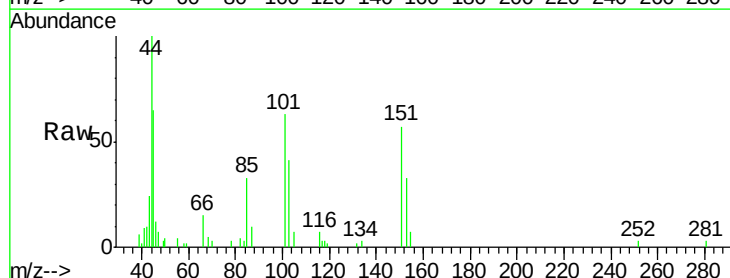
Acq: 10 Feb 2016 6:53

Tgt Ion:101 Resp: 22624

Ion Ratio Lower Upper

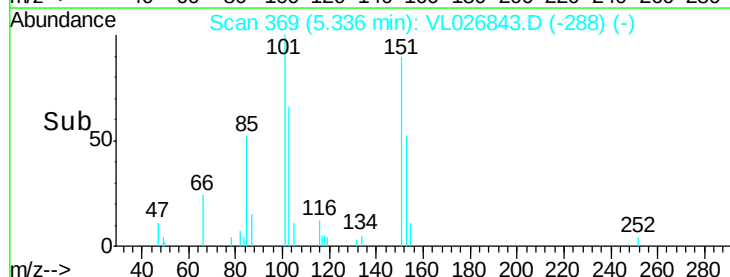
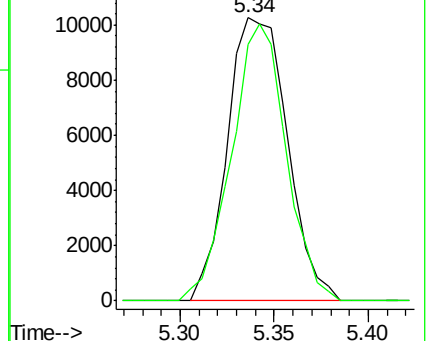
101 100

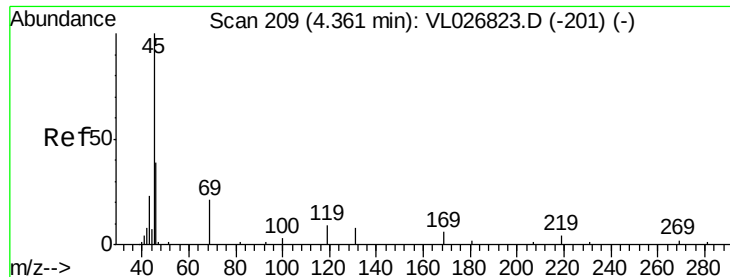
151 89.2 69.4 104.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 139.33 ppbv

RT: 4.35 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

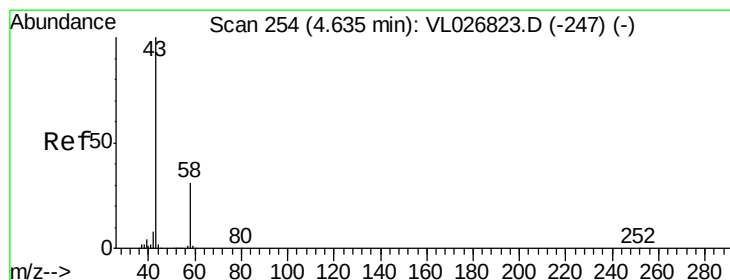
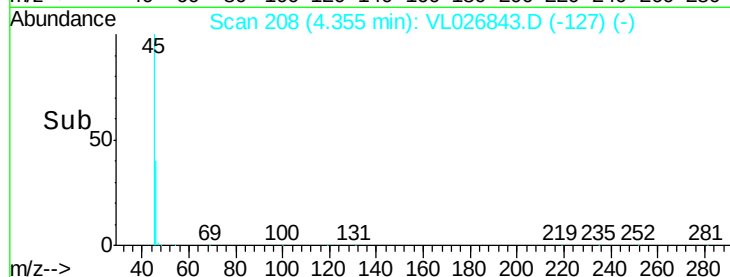
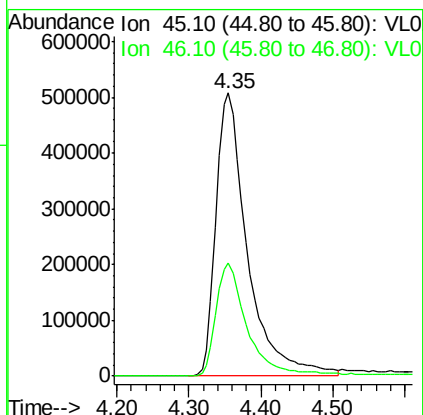
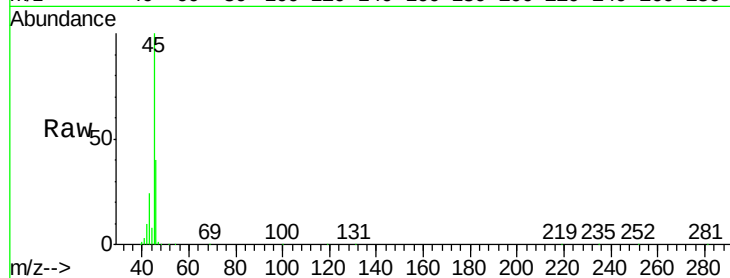
IA-1

Tgt Ion: 45 Resp: 1543606

Ion Ratio Lower Upper

45 100

46 41.2 15.8 63.4



#15

Acetone

Concen: 17.70 ppbv

RT: 4.64 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL026843.D

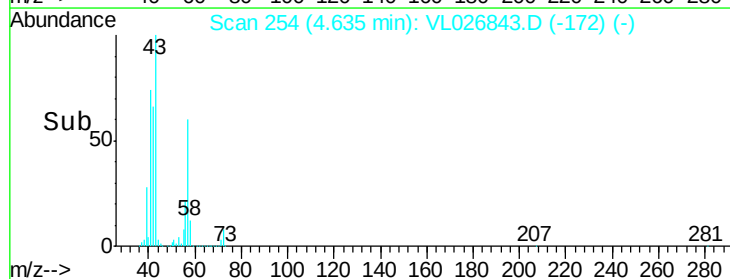
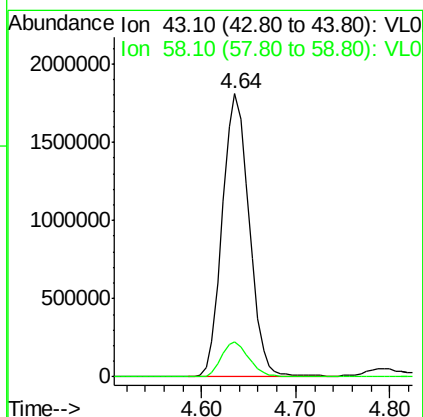
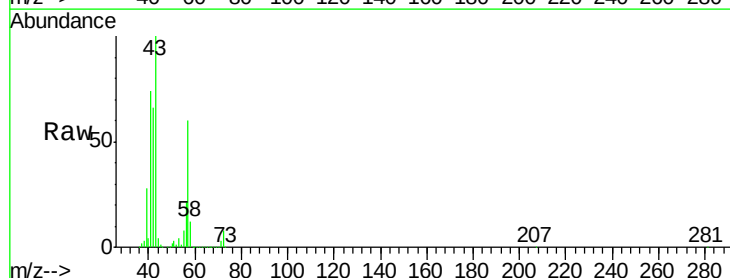
Acq: 10 Feb 2016 6:53

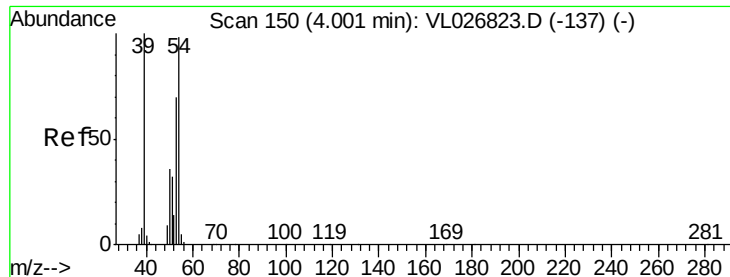
Tgt Ion: 43 Resp: 3574646

Ion Ratio Lower Upper

43 100

58 13.0 25.2 37.8#





#16

1,3-Butadiene

Concen: 1.06 ppbv

RT: 3.98 min Scan# 146

Delta R.T. -0.02 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

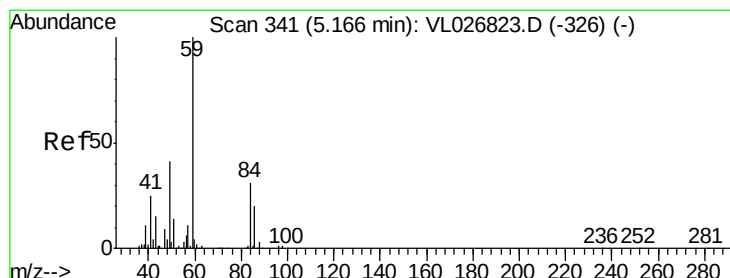
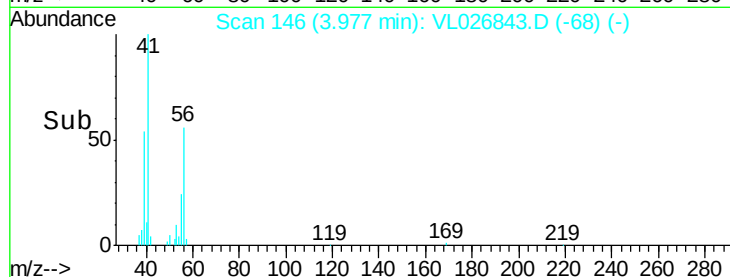
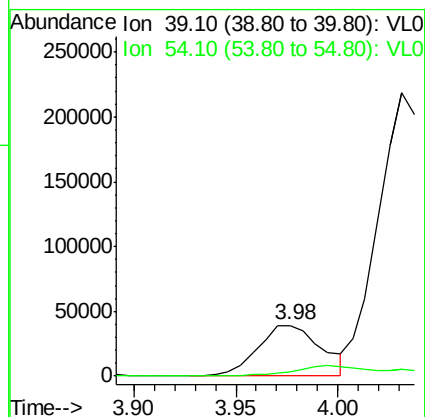
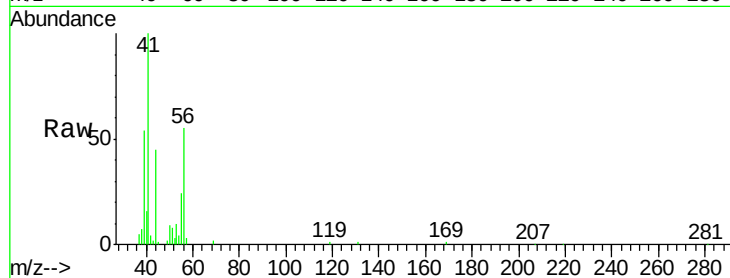
IA-1

Tgt Ion: 39 Resp: 83574

Ion Ratio Lower Upper

39 100

54 32.1 74.7 112.1#



#17

tert-Butyl alcohol

Concen: 0.11 ppbv

RT: 5.18 min Scan# 343

Delta R.T. 0.01 min

Lab File: VL026843.D

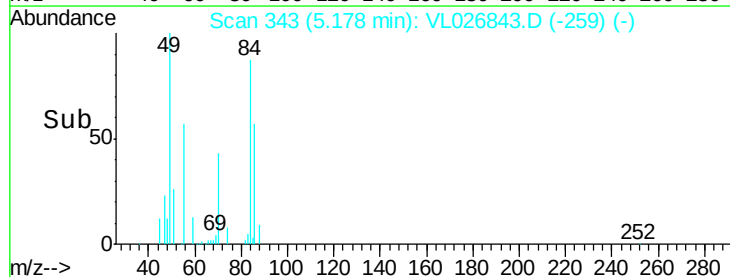
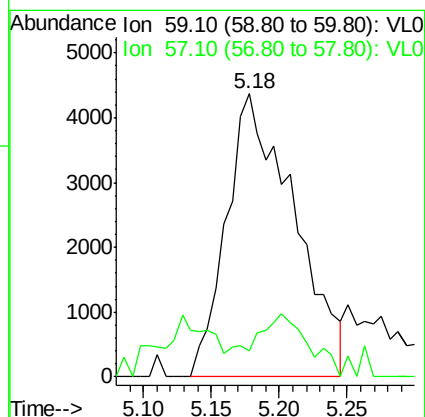
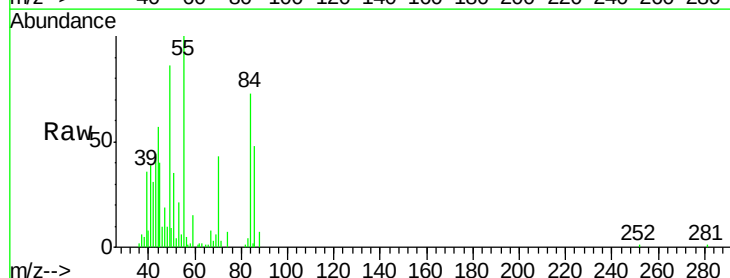
Acq: 10 Feb 2016 6:53

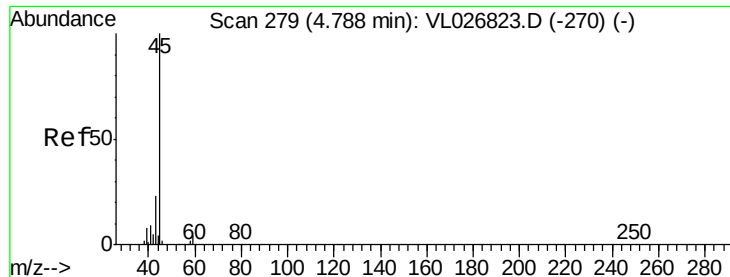
Tgt Ion: 59 Resp: 15172

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 8.12 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

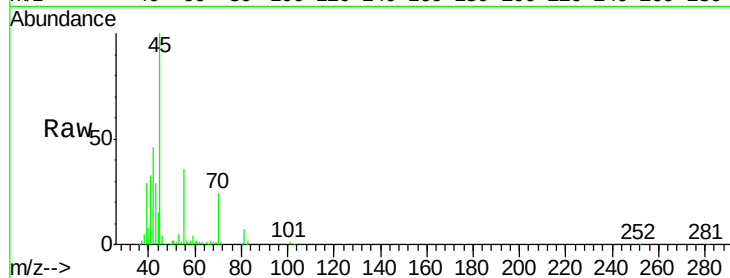
IA-1

Tgt Ion: 45 Resp: 584829

Ion Ratio Lower Upper

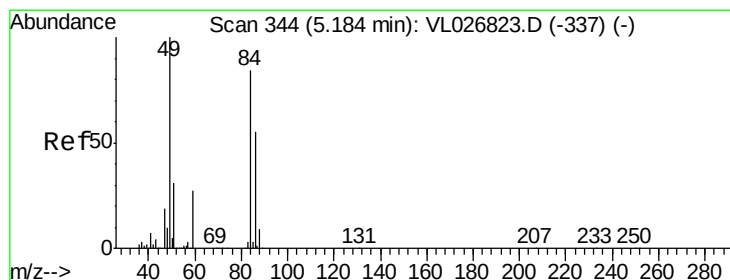
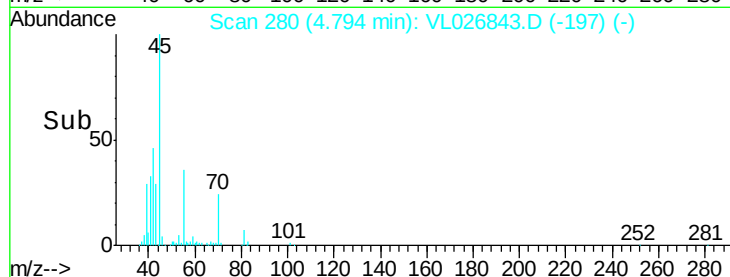
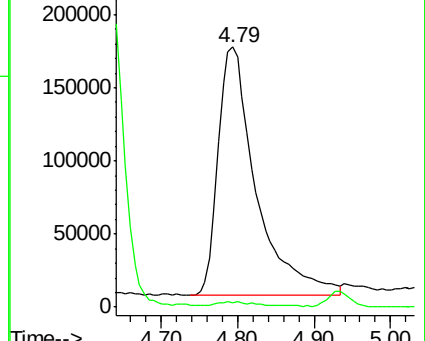
45 100

58 2.6 2.2 3.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.52 ppbv

RT: 5.18 min Scan# 344

Delta R.T. -0.00 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Tgt Ion: 84 Resp: 53991

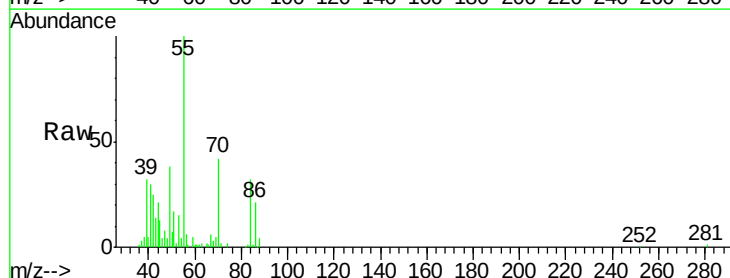
Ion Ratio Lower Upper

84 100

49 116.4 94.9 142.3

51 49.4 29.5 44.3#

86 66.1 51.9 77.9

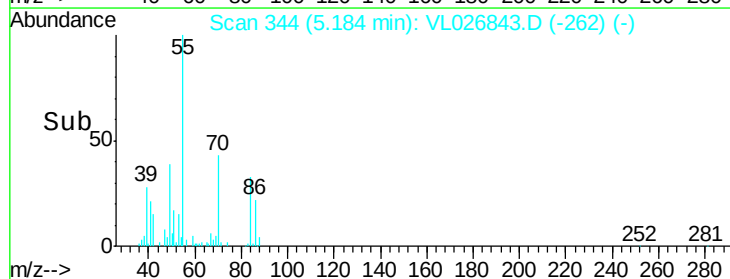
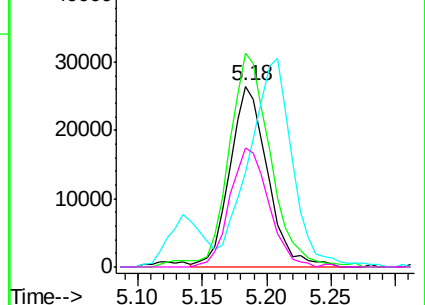


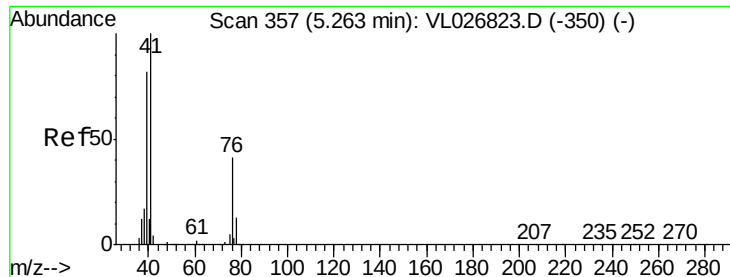
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

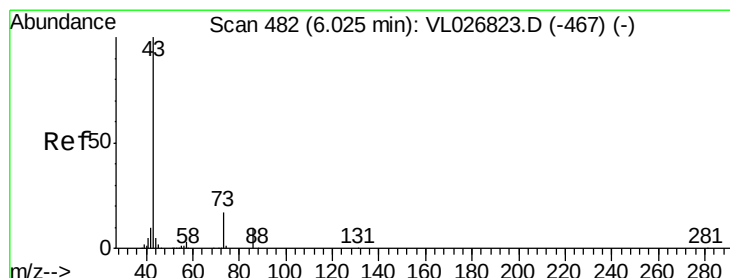
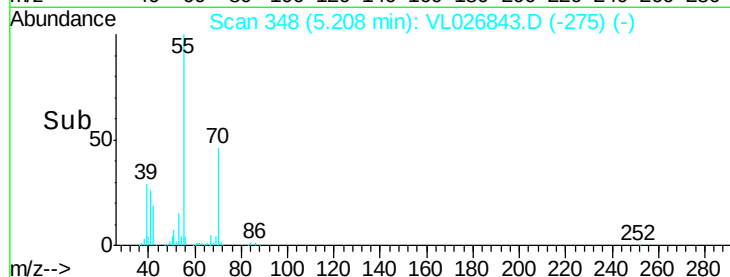
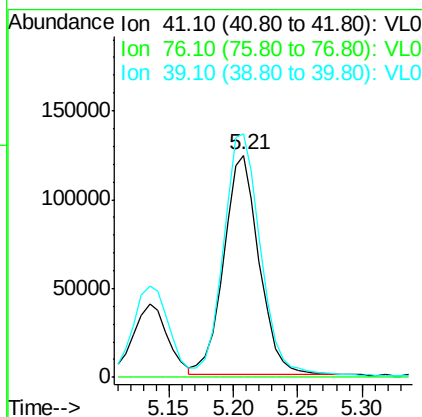
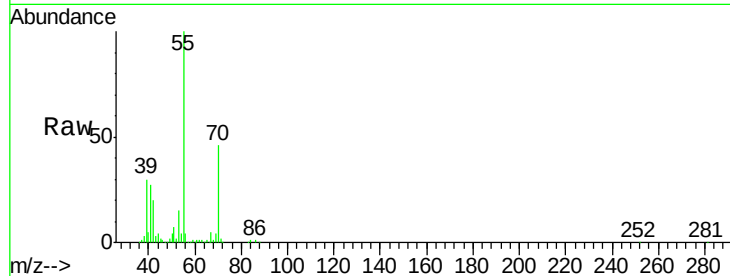




#21
 Allyl Chloride
 Concen: 1.89 ppbv
 RT: 5.21 min Scan# 348
 Delta R.T. -0.06 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

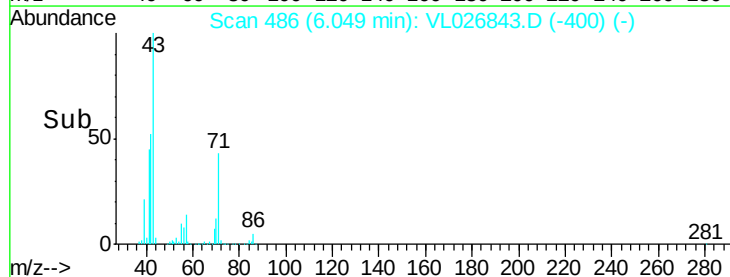
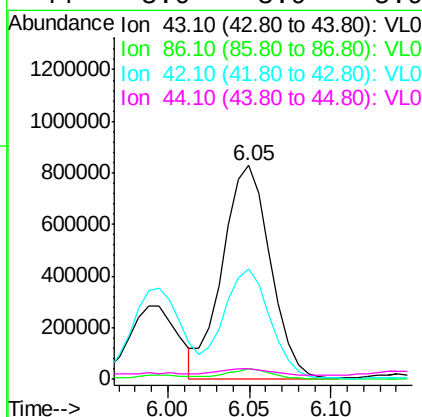
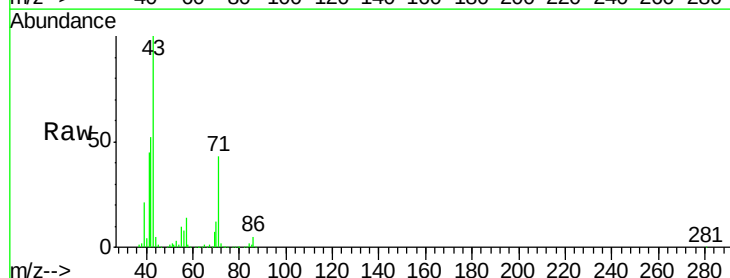
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

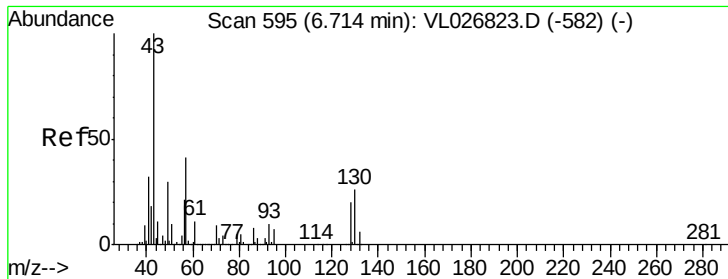
Tgt Ion: 41 Resp: 236175
 Ion Ratio Lower Upper
 41 100
 76 0.0 32.0 48.0#
 39 117.1 64.6 96.8#



#23
 Vinyl Acetate
 Concen: 6.16 ppbv
 RT: 6.05 min Scan# 486
 Delta R.T. 0.02 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

Tgt Ion: 43 Resp: 1687295
 Ion Ratio Lower Upper
 43 100
 86 4.6 7.7 11.5#
 42 51.6 7.8 11.8#
 44 3.0 3.9 5.9#





#25

Ethyl Acetate

Concen: 2.37 ppbv

RT: 6.70 min Scan# 593

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tgt Ion: 43 Resp: 716956

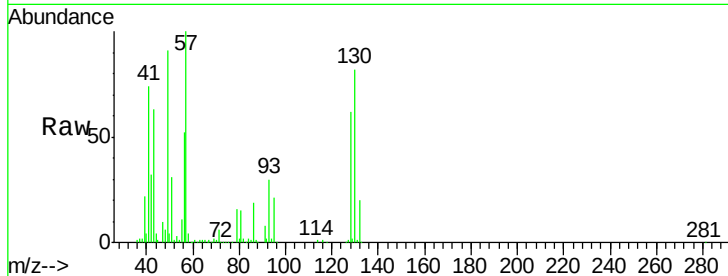
Ion Ratio Lower Upper

43 100

45 2.3 7.8 11.8#

61 1.4 7.9 11.9#

70 2.9 6.9 10.3#



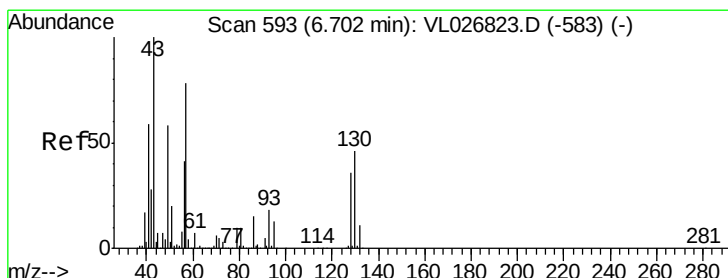
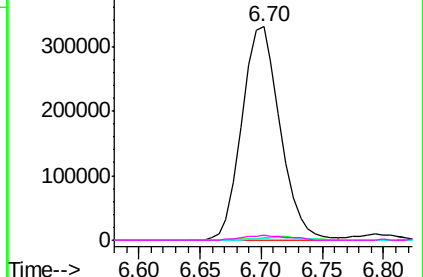
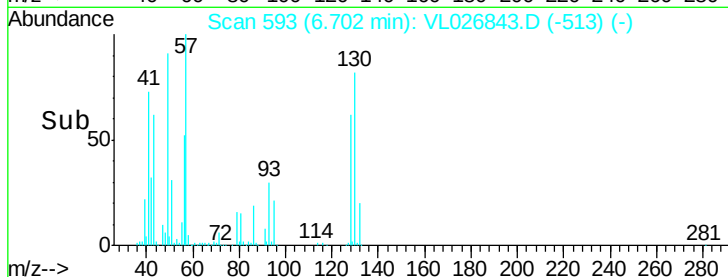
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

Time-->



#26

Hexane

Concen: 6.19 ppbv

RT: 6.70 min Scan# 592

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Tgt Ion: 57 Resp: 1056459

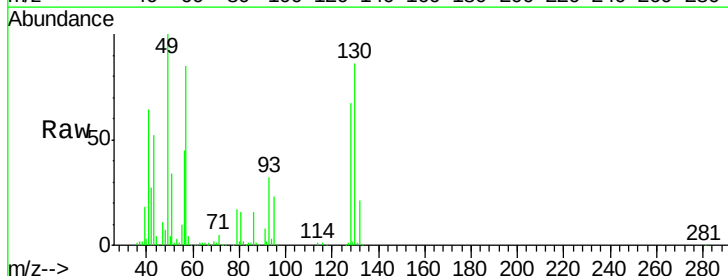
Ion Ratio Lower Upper

57 100

41 81.5 63.3 94.9

43 68.0 151.4 227.2#

56 56.0 42.2 63.2



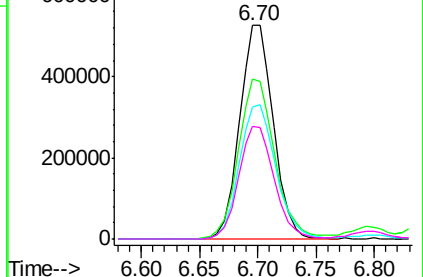
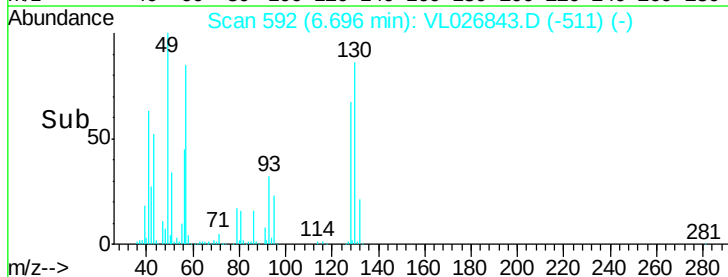
Abundance Ion 57.10 (56.80 to 57.80): VL0

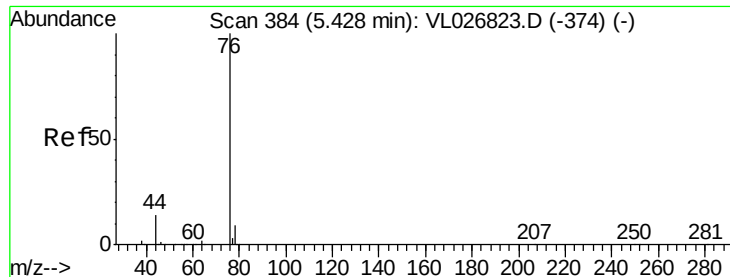
Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

Time-->





#27

Carbon Disulfide

Concen: 0.03 ppbv

RT: 5.43 min Scan# 384

Delta R.T. -0.00 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

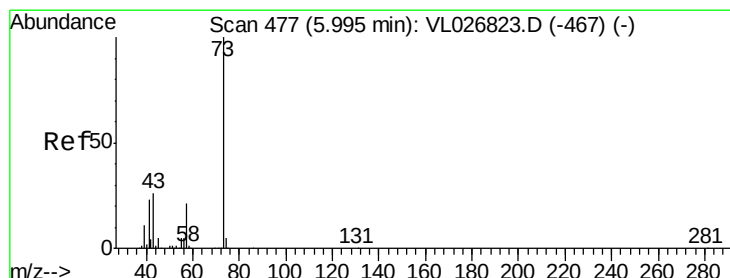
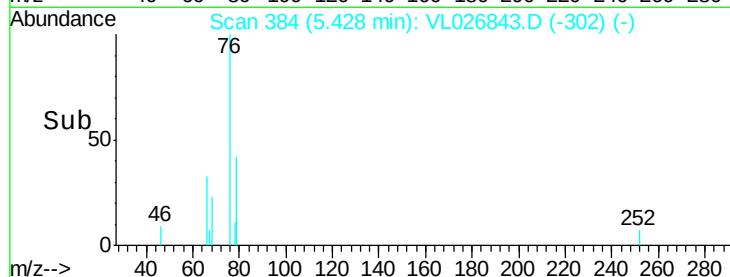
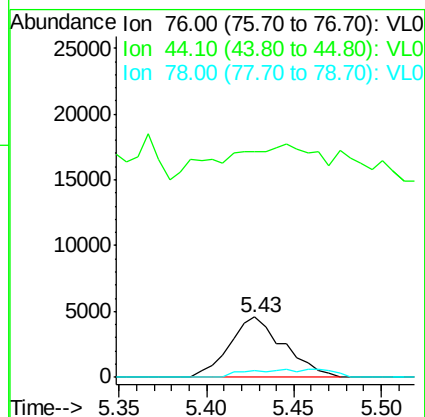
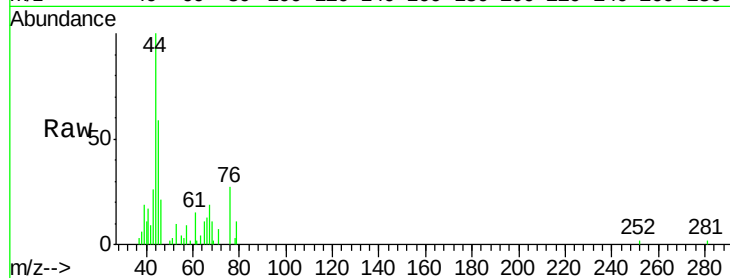
Tgt Ion: 76 Resp: 9935

Ion Ratio Lower Upper

76 100

44 128.5 12.1 18.1#

78 19.8 7.7 11.5#



#28

Methyl tert-Butyl Ether

Concen: 0.03 ppbv

RT: 6.01 min Scan# 480

Delta R.T. 0.02 min

Lab File: VL026843.D

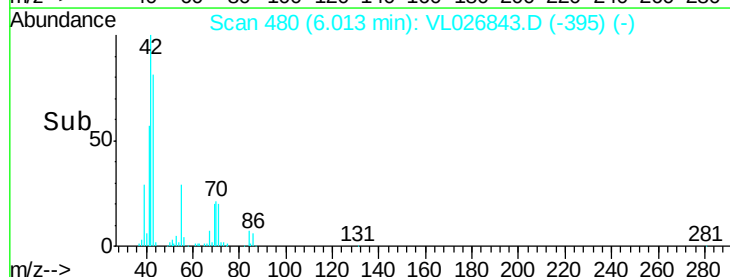
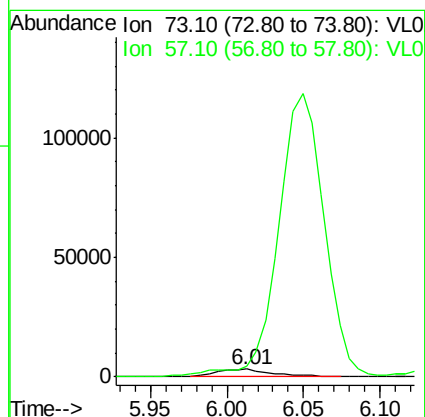
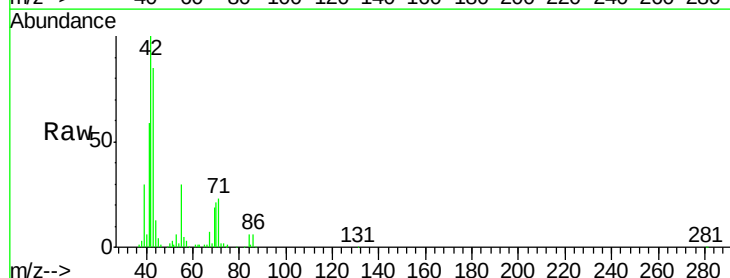
Acq: 10 Feb 2016 6:53

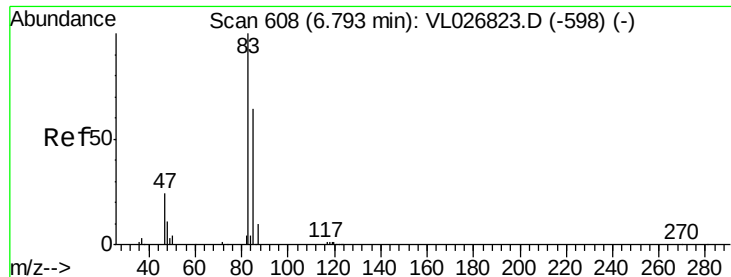
Tgt Ion: 73 Resp: 8412

Ion Ratio Lower Upper

73 100

57 2945.1 17.0 25.6#

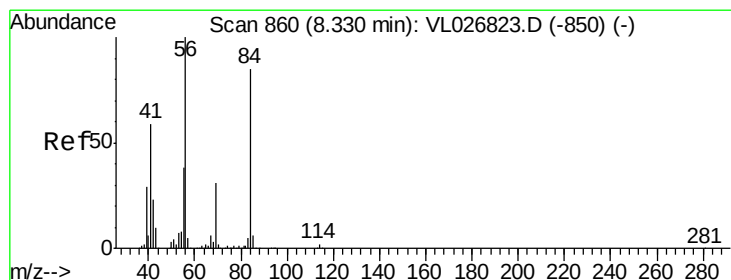
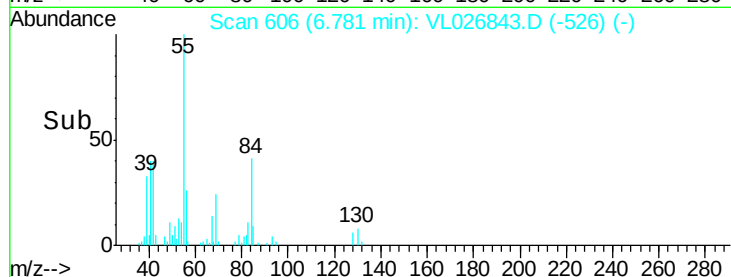
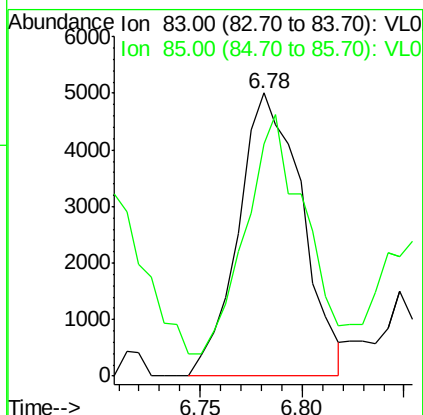
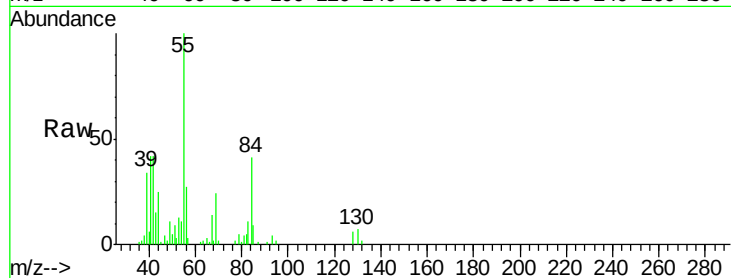




#29
Chloroform
Concen: 0.04 ppbv
RT: 6.78 min Scan# 606
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

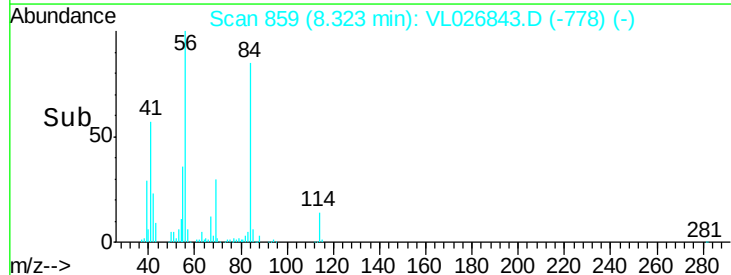
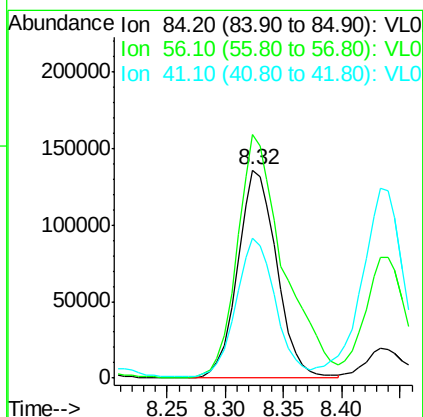
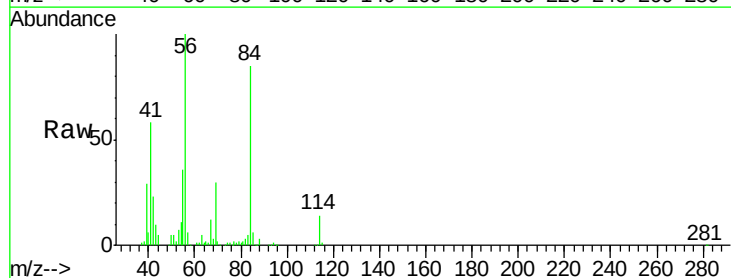
Instrument :
MSVOA_L
ClientSampled :
IA-1

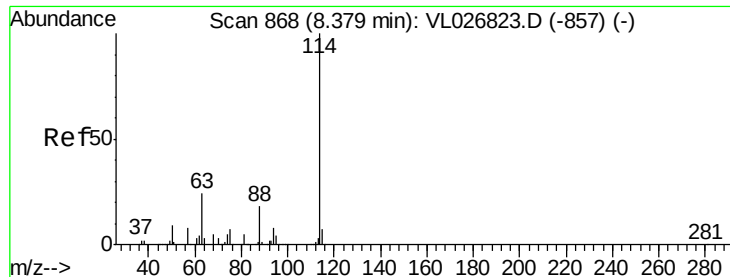
Tgt Ion: 83 Resp: 10855
Ion Ratio Lower Upper
83 100
85 74.4 51.5 77.3



#30
Cyclohexane
Concen: 2.28 ppbv
RT: 8.32 min Scan# 859
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

Tgt Ion: 84 Resp: 316984
Ion Ratio Lower Upper
84 100
56 137.8 99.4 149.2
41 67.7 56.7 85.1

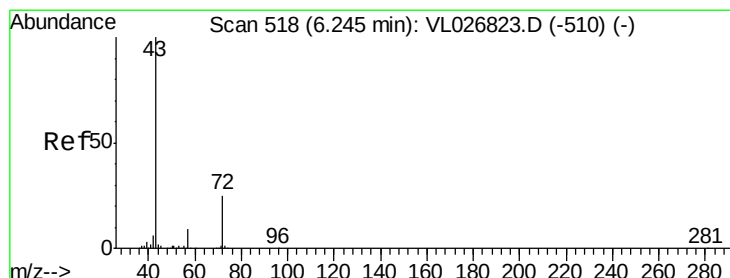
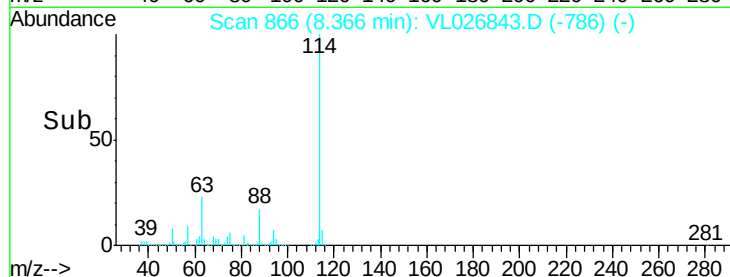
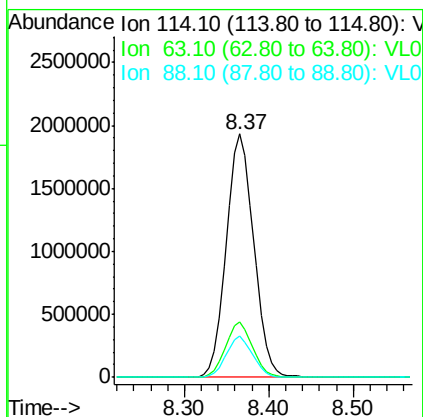
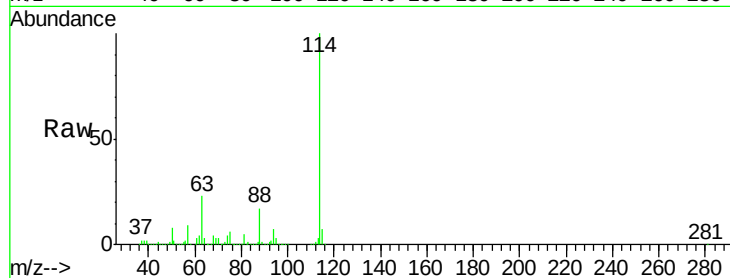




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.37 min Scan# 866
 Delta R.T. -0.01 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

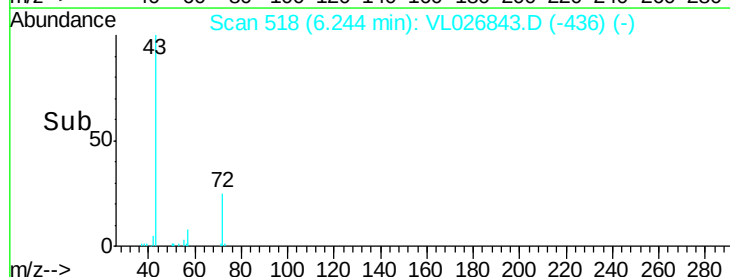
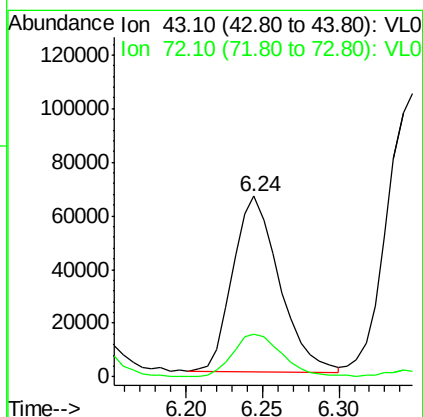
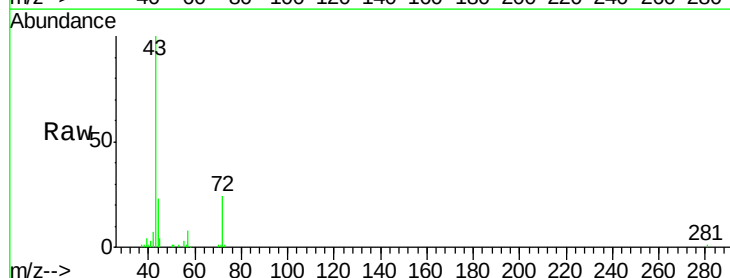
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

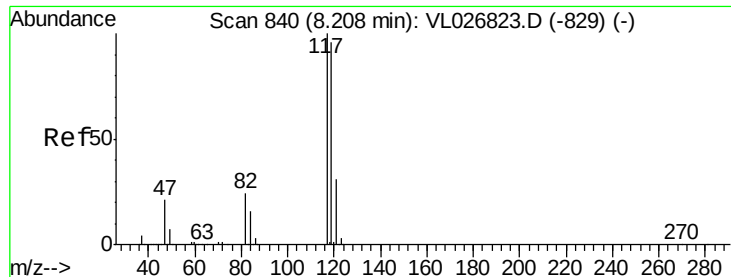
Tgt Ion:114 Resp: 4303993
 Ion Ratio Lower Upper
 114 100
 63 22.5 19.7 29.5
 88 16.4 13.8 20.6



#34
 2-Butanone
 Concen: 0.66 ppbv
 RT: 6.24 min Scan# 518
 Delta R.T. -0.00 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

Tgt Ion: 43 Resp: 139489
 Ion Ratio Lower Upper
 43 100
 72 26.2 19.8 29.8





#35

Carbon Tetrachloride

Concen: 0.08 ppbv

RT: 8.20 min Scan# 838

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

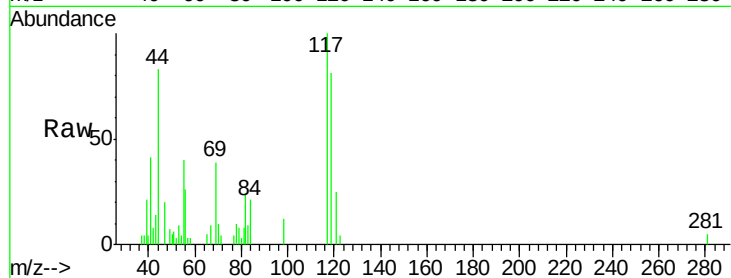
Tgt Ion: 117 Resp: 24284

Ion Ratio Lower Upper

117 100

119 80.8 76.6 115.0

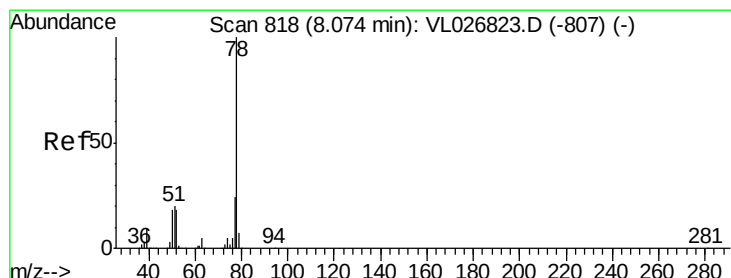
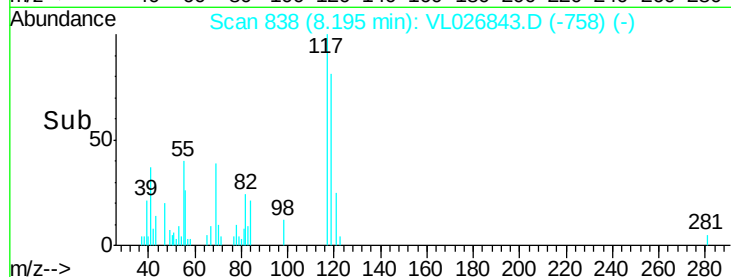
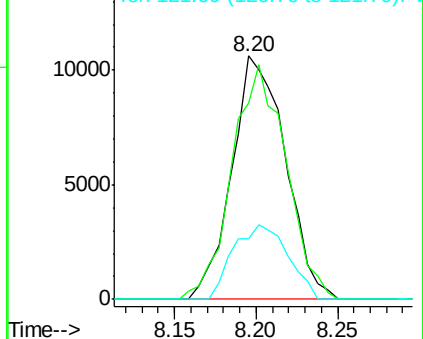
121 24.7 25.0 37.4#



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: 2.81 ppbv

RT: 8.06 min Scan# 816

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

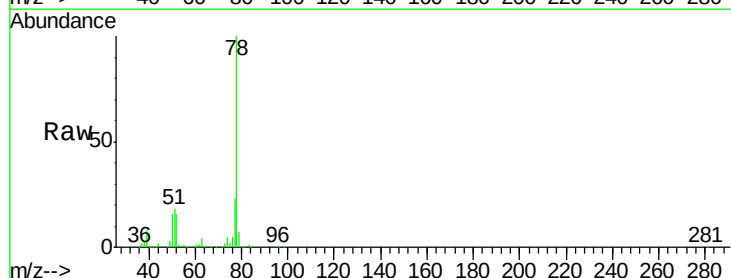
Tgt Ion: 78 Resp: 959543

Ion Ratio Lower Upper

78 100

77 23.0 19.0 28.6

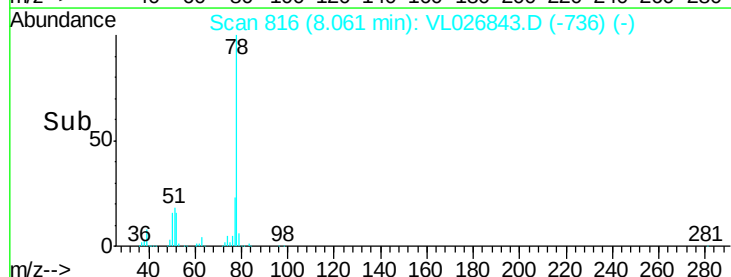
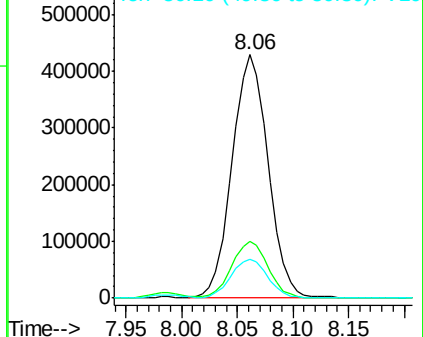
50 15.8 14.2 21.4

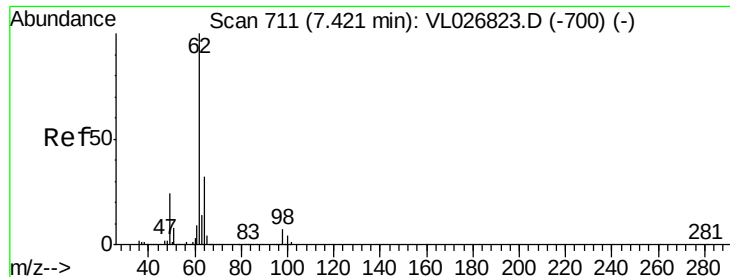


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.05 ppbv

RT: 7.41 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

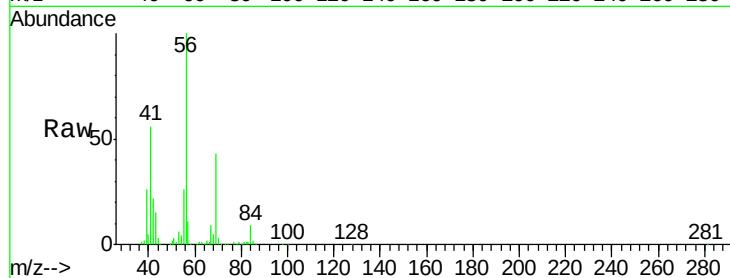
IA-1

Tgt Ion: 62 Resp: 9980

Ion Ratio Lower Upper

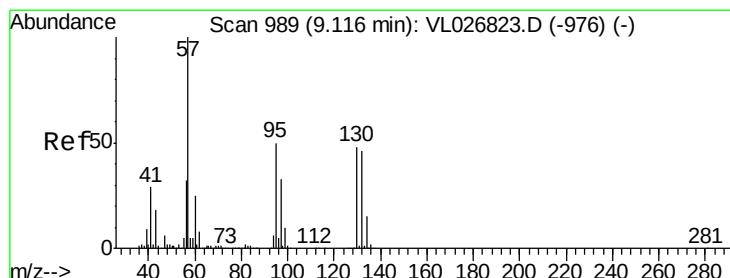
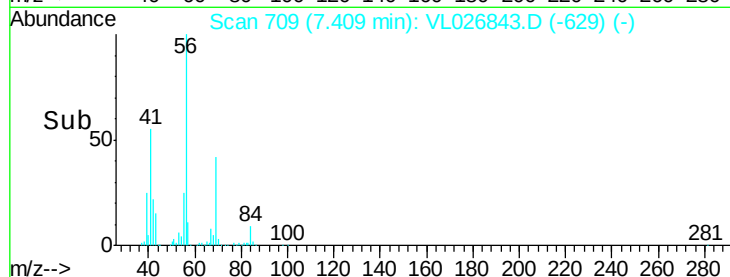
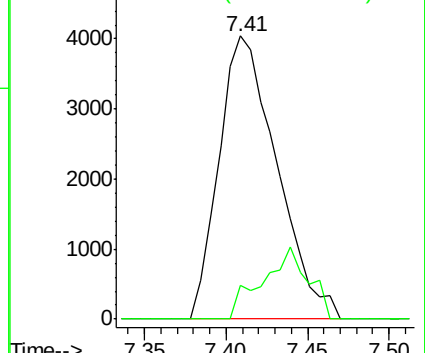
62 100

98 20.1 5.4 8.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.16 ppbv

RT: 9.11 min Scan# 988

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Tgt Ion: 130 Resp: 25524

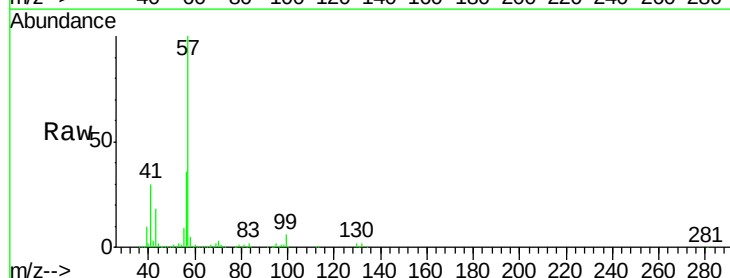
Ion Ratio Lower Upper

130 100

95 93.8 83.0 124.6

132 95.2 76.0 114.0

97 73.0 54.0 81.0

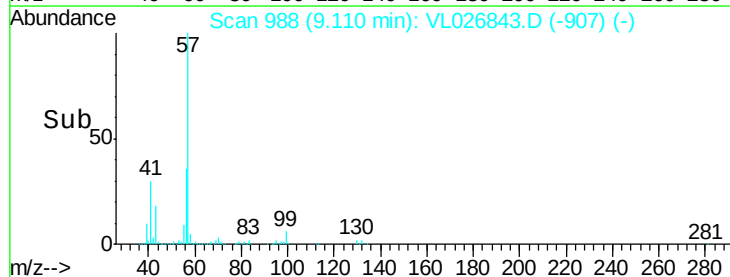
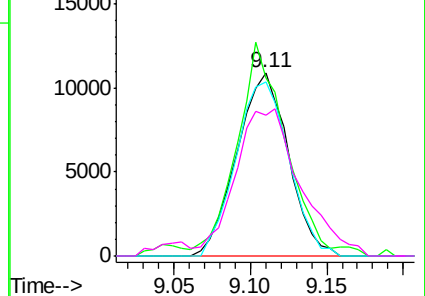


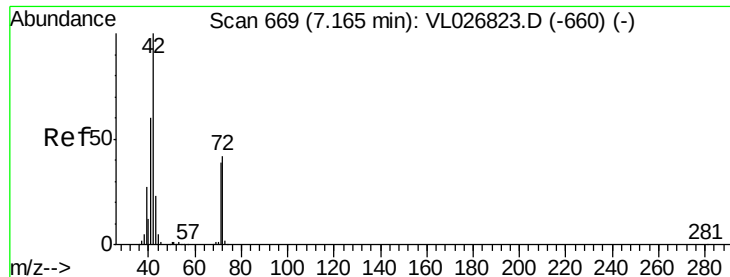
Abundance Ion 130.00 (129.70 to 130.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): VL0

Ion 97.00 (96.70 to 97.70): VL0





#41

Tetrahydrofuran

Concen: 0.46 ppbv

RT: 7.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampled :

IA-1

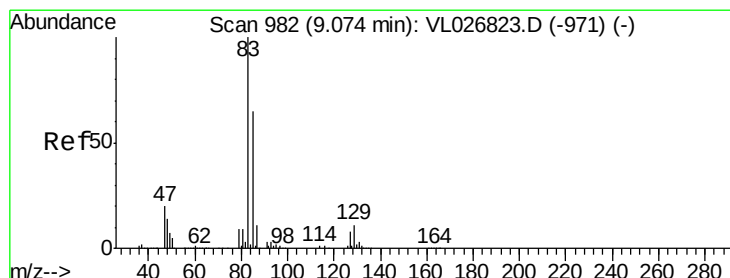
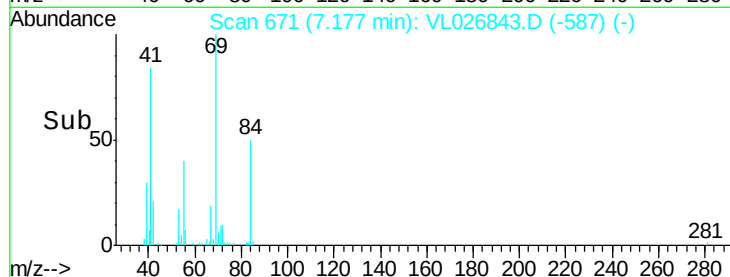
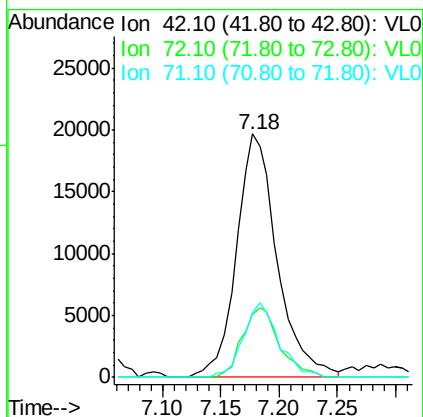
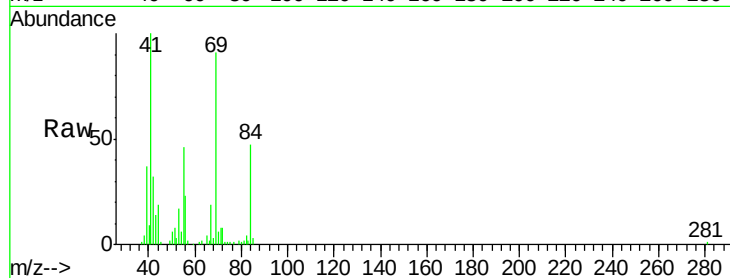
Tgt Ion: 42 Resp: 47791

Ion Ratio Lower Upper

42 100

72 26.1 33.4 50.0#

71 26.6 32.1 48.1#



#42

Bromodichloromethane

Concen: 0.14 ppbv

RT: 9.05 min Scan# 978

Delta R.T. -0.02 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

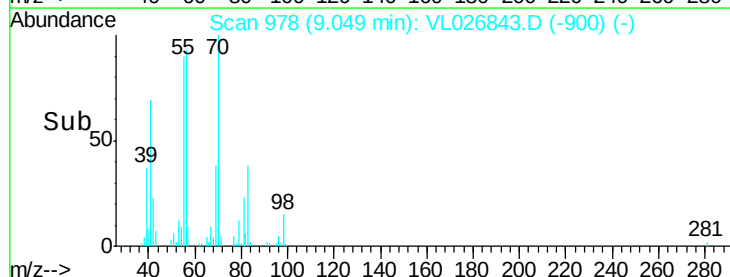
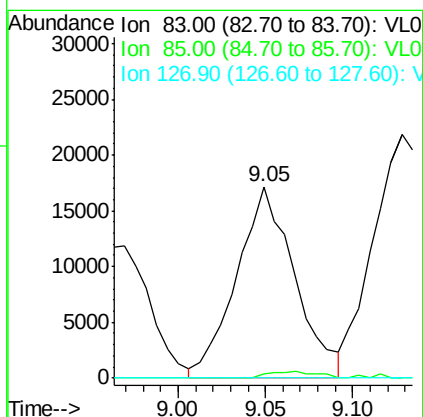
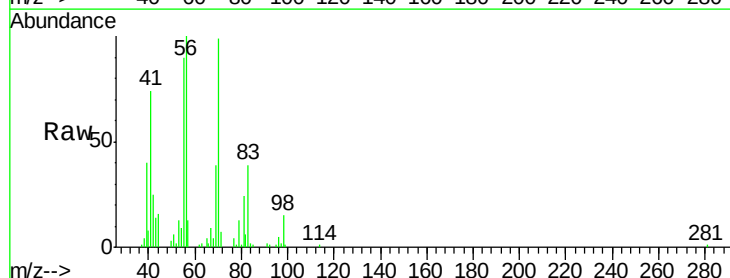
Tgt Ion: 83 Resp: 39630

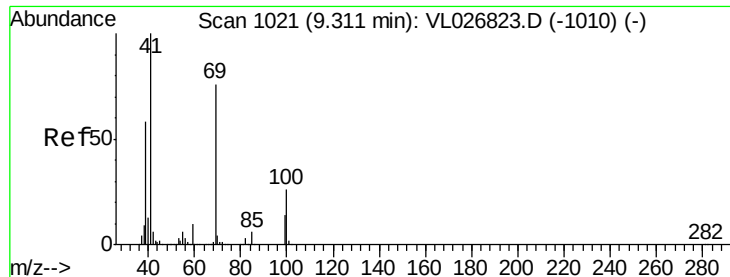
Ion Ratio Lower Upper

83 100

85 2.0 51.8 77.6#

127 0.0 6.4 9.6#

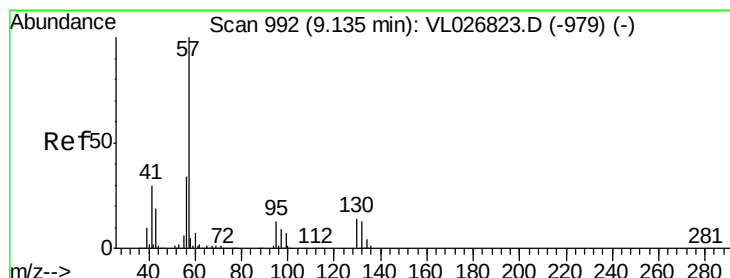
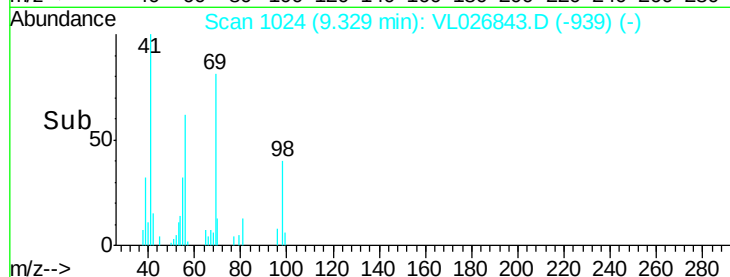
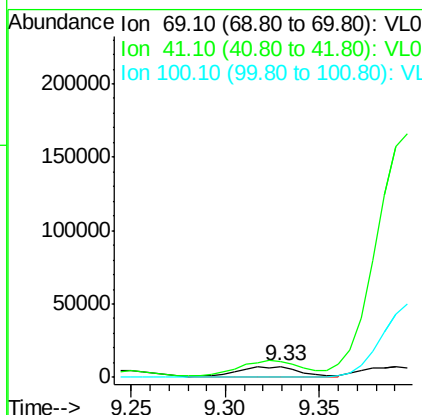
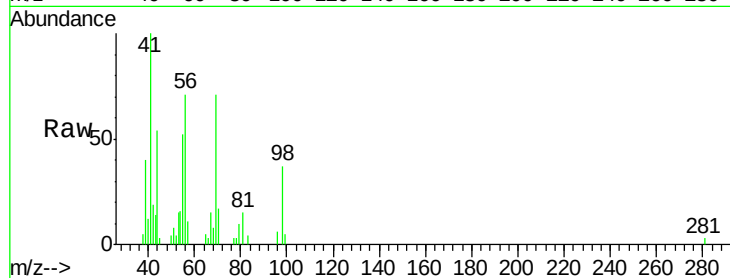




#43
Methyl Methacrylate
Concen: 0.13 ppbv
RT: 9.33 min Scan# 1024
Delta R.T. 0.02 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

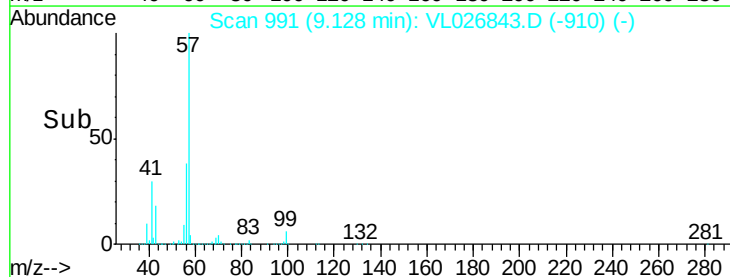
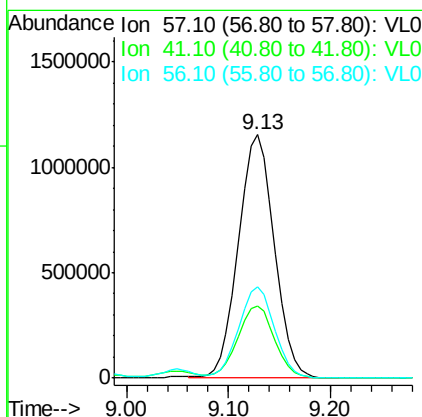
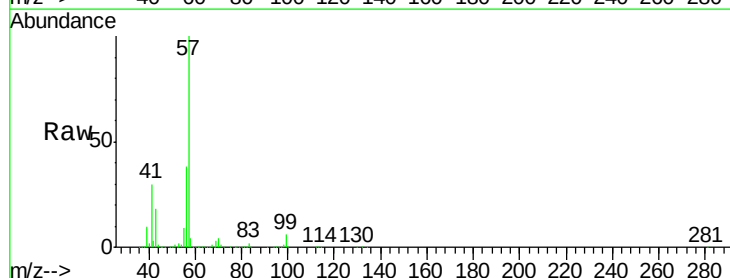
Instrument :
MSVOA_L
ClientSampleId :
IA-1

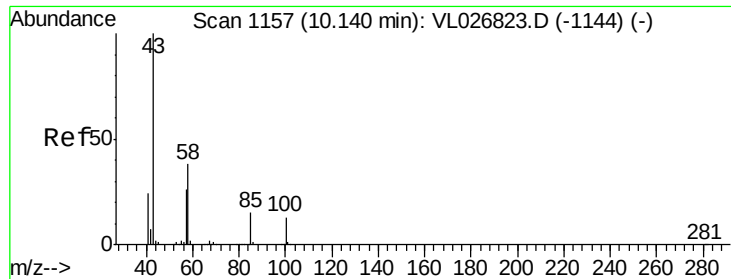
Tgt Ion: 69 Resp: 15993
Ion Ratio Lower Upper
69 100
41 0.0 106.5 159.7#
100 0.0 27.2 40.8#



#44
2,2,4-Trimethylpentane
Concen: 4.82 ppbv
RT: 9.13 min Scan# 991
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

Tgt Ion: 57 Resp: 2813913
Ion Ratio Lower Upper
57 100
41 33.1 23.2 34.8
56 41.1 26.2 39.4#

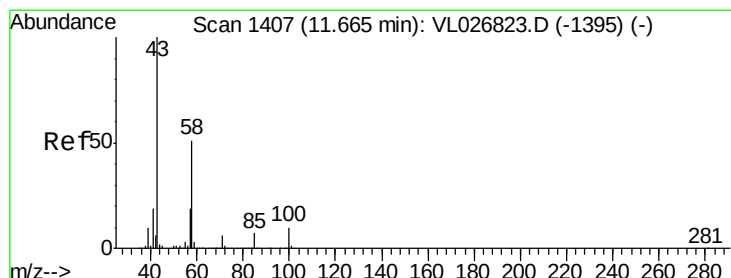
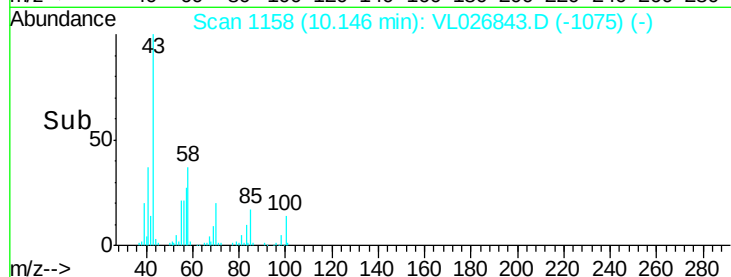
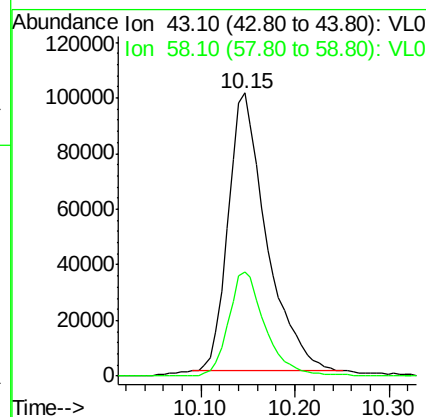
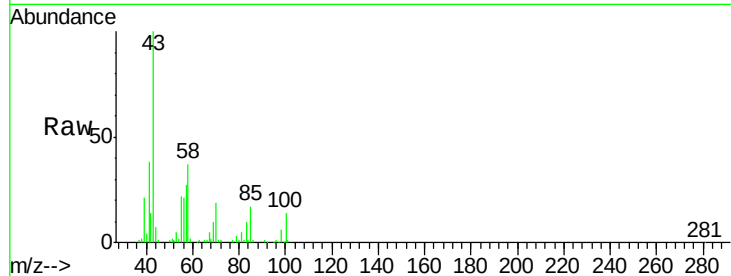




#50
 4-Methyl-2-Pentanone
 Concen: 1.14 ppbv
 RT: 10.15 min Scan# 1158
 Delta R.T. 0.01 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

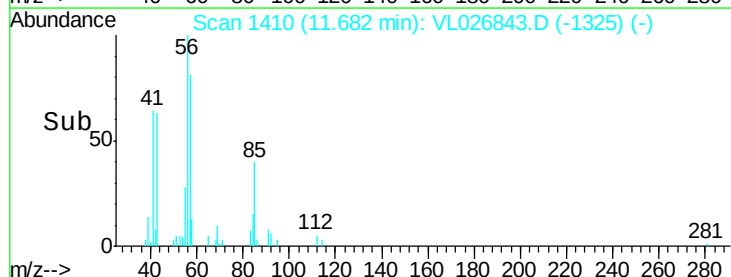
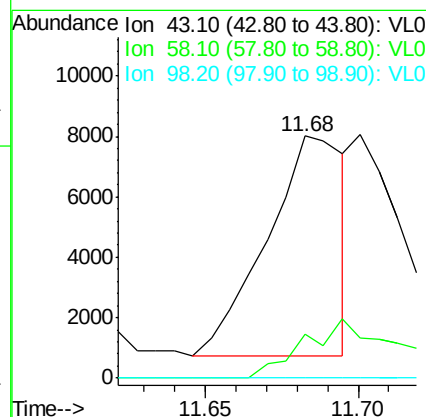
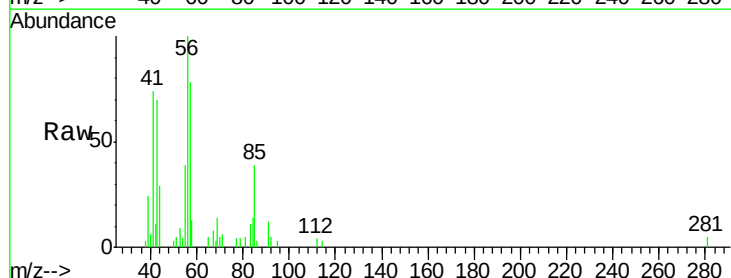
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

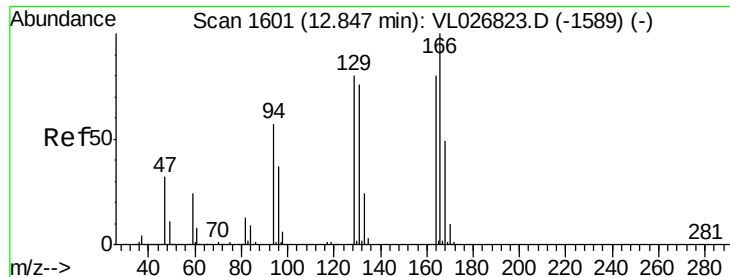
Tgt Ion: 43 Resp: 283079
 Ion Ratio Lower Upper
 43 100
 58 36.1 30.3 45.5



#51
 2-Hexanone
 Concen: 0.06 ppbv
 RT: 11.68 min Scan# 1410
 Delta R.T. 0.02 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

Tgt Ion: 43 Resp: 12832
 Ion Ratio Lower Upper
 43 100
 58 0.0 40.4 60.6#
 98 0.0 0.2 0.4#

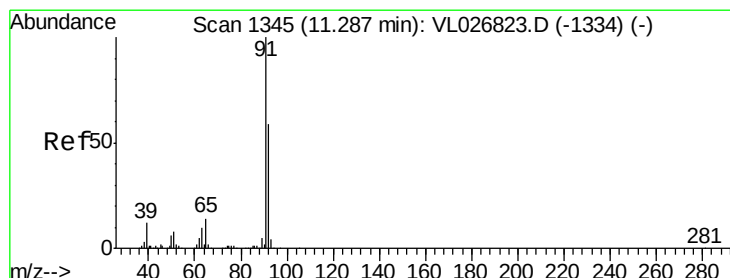
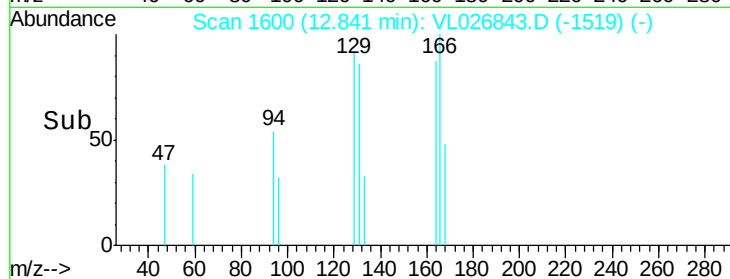
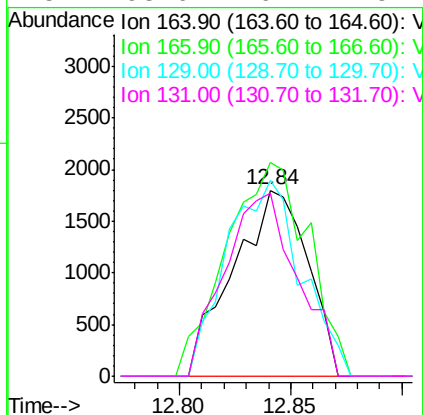
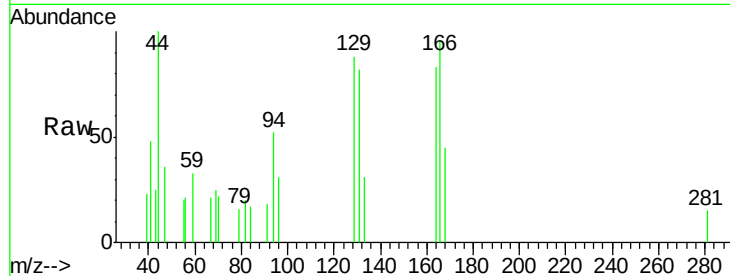




#52
Tetrachloroethene
Concen: 0.03 ppbv
RT: 12.84 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

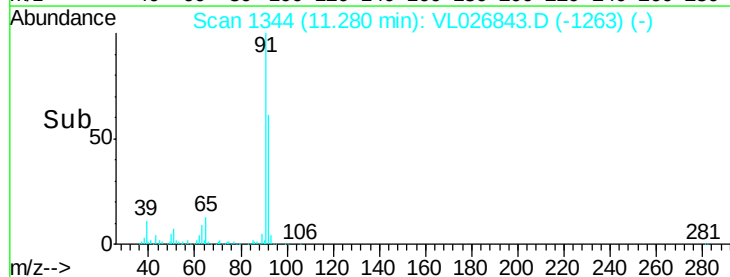
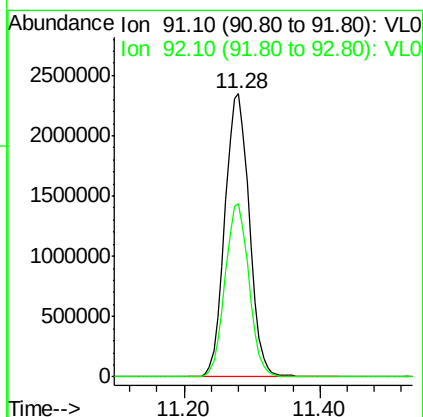
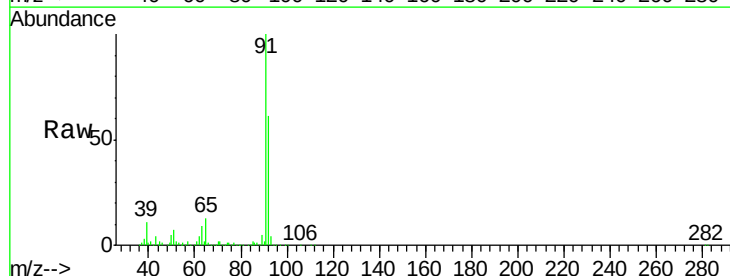
Instrument :
MSVOA_L
ClientSampleId :
IA-1

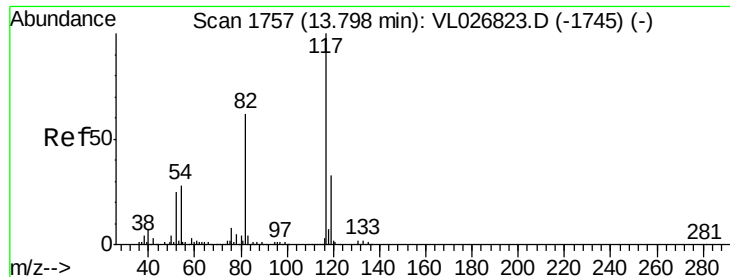
Tgt Ion: 164 Resp: 4169
Ion Ratio Lower Upper
164 100
166 93.4 100.3 150.5#
129 105.1 80.0 120.0
131 98.6 76.7 115.1



#53
Toluene
Concen: 15.21 ppbv
RT: 11.28 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

Tgt Ion: 91 Resp: 5844882
Ion Ratio Lower Upper
91 100
92 60.2 47.3 70.9

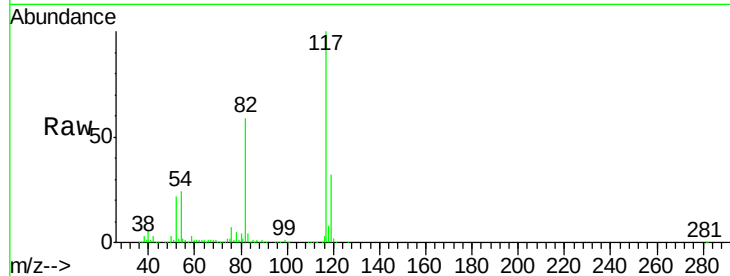




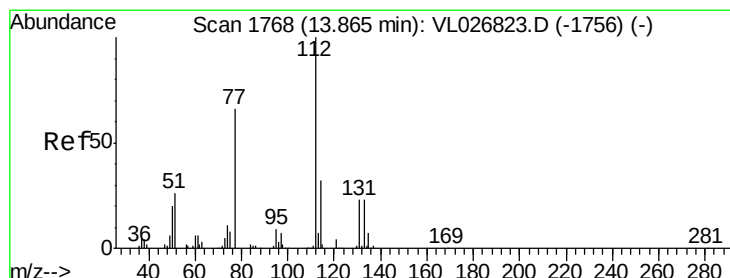
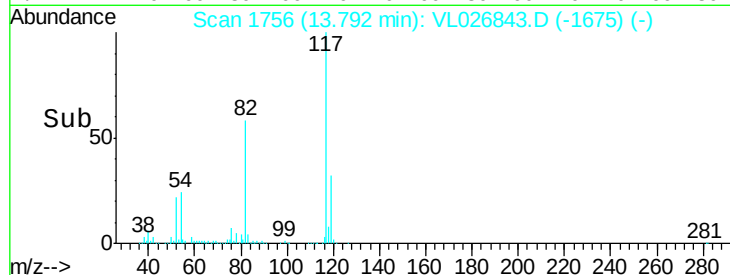
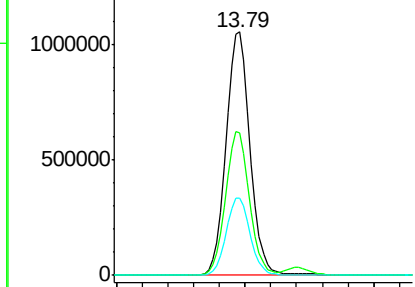
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tgt Ion:117 Resp: 2780811
Ion Ratio Lower Upper
117 100
82 59.4 51.9 77.9
119 32.3 48.5 72.7#

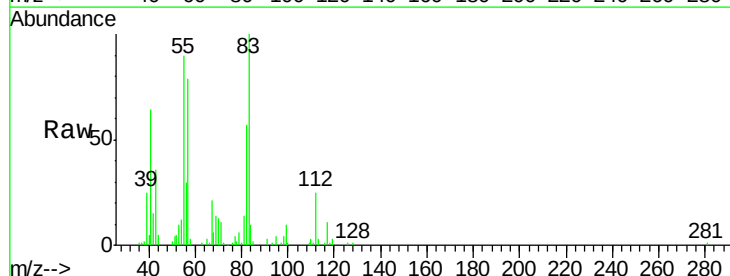


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

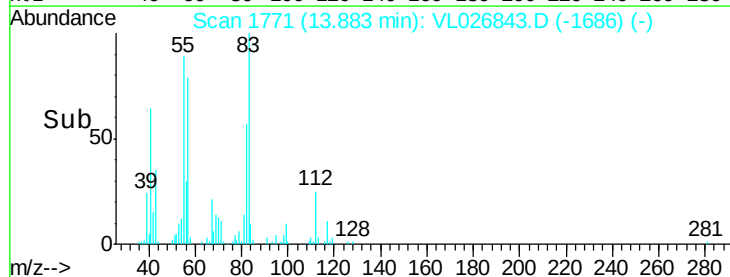
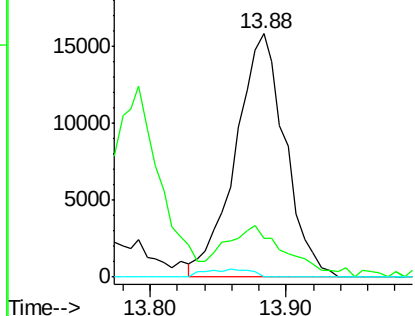


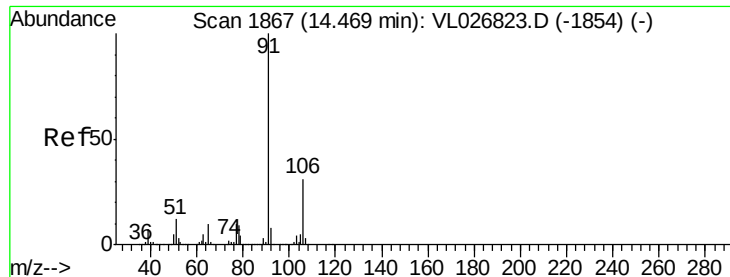
#57
Chlorobenzene
Concen: 0.17 ppbv
RT: 13.88 min Scan# 1771
Delta R.T. 0.02 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

Tgt Ion:112 Resp: 40221
Ion Ratio Lower Upper
112 100
77 14.0 53.3 79.9#
114 0.0 28.9 35.3#



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 3.83 ppbv

RT: 14.46 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

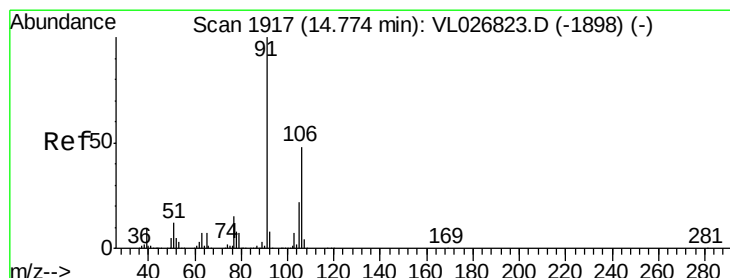
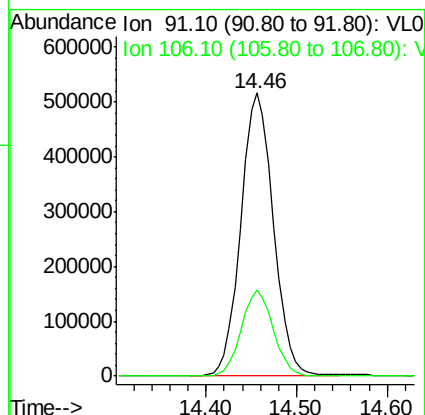
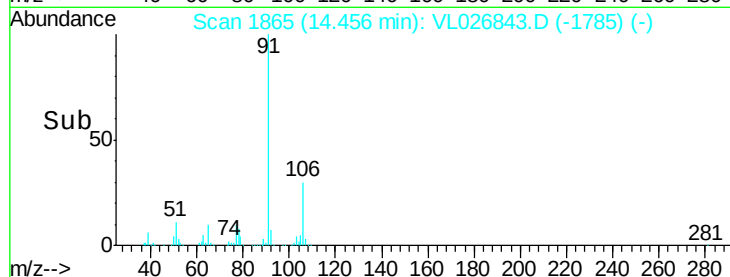
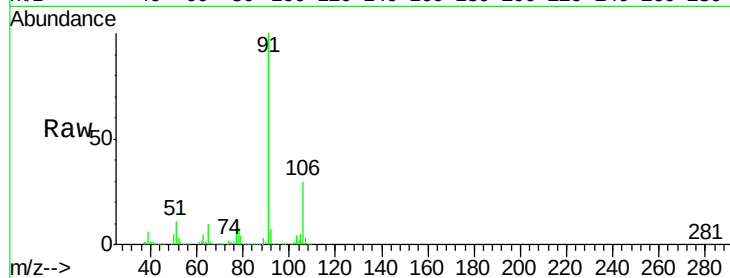
IA-1

Tgt Ion: 91 Resp: 1281753

Ion Ratio Lower Upper

91 100

106 30.5 24.9 37.3



#59

m/p-Xylene

Concen: 13.77 ppbv

RT: 14.73 min Scan# 1910

Delta R.T. -0.04 min

Lab File: VL026843.D

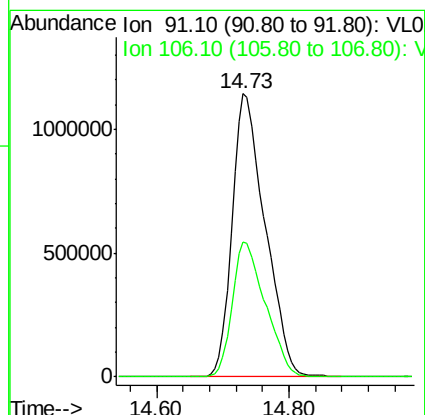
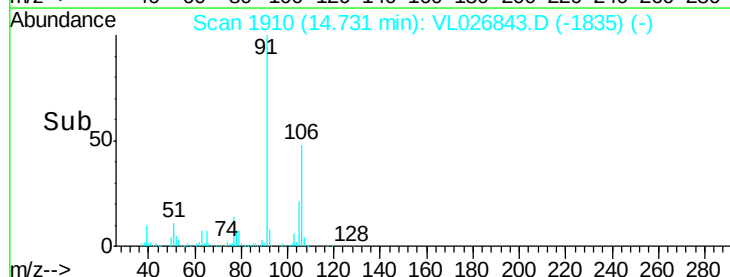
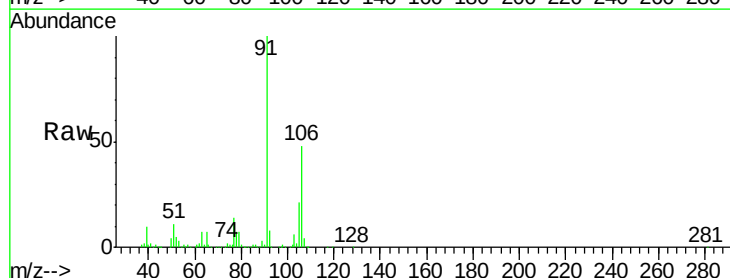
Acq: 10 Feb 2016 6:53

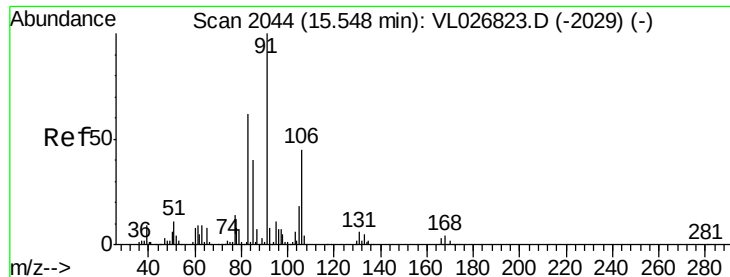
Tgt Ion: 91 Resp: 3938200

Ion Ratio Lower Upper

91 100

106 48.1 38.2 57.2

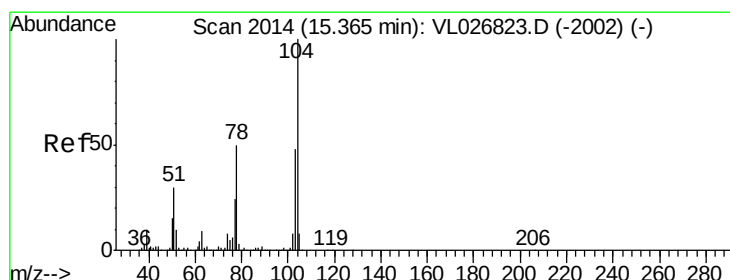
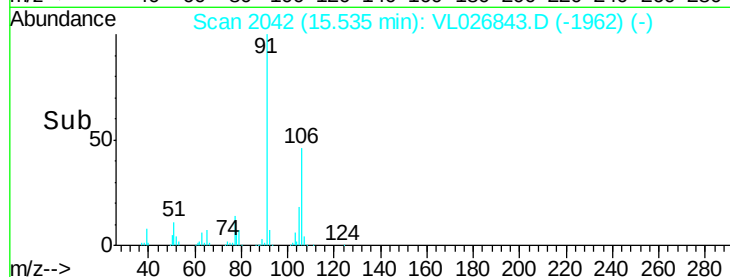
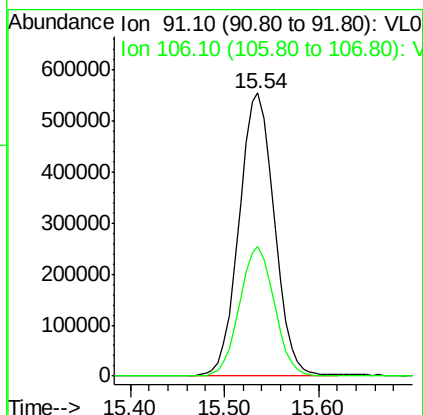
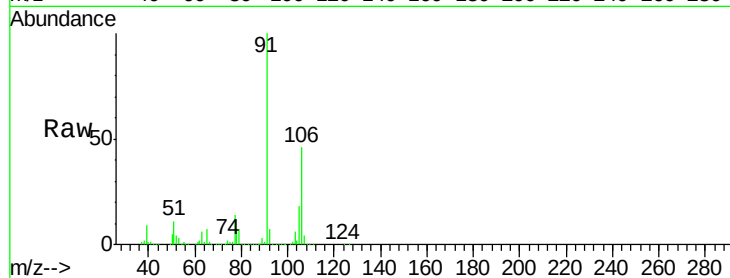




#60
o-Xylene
Concen: 4.61 ppbv
RT: 15.54 min Scan# 2042
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

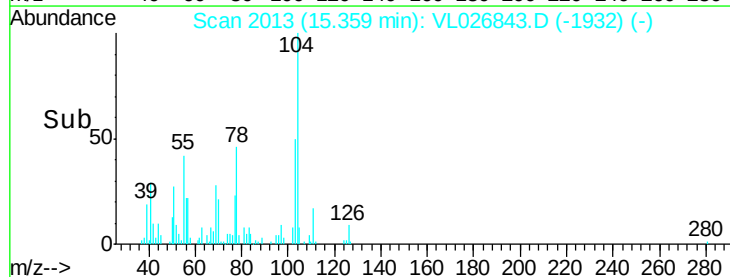
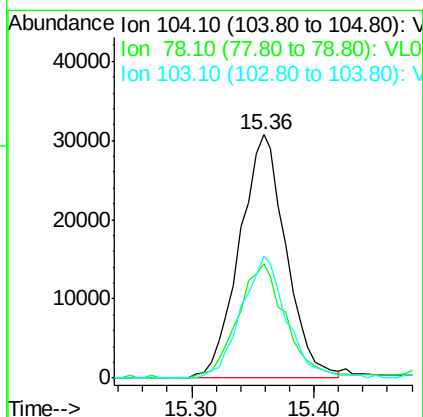
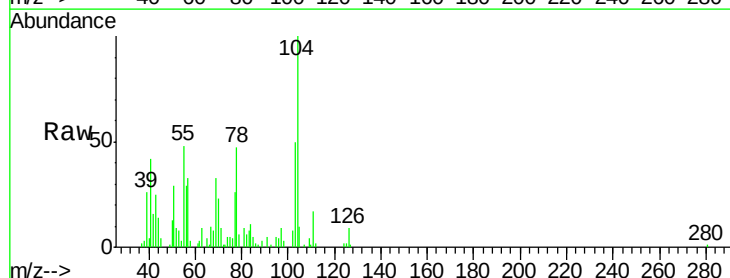
Instrument :
MSVOA_L
ClientSampleId :
IA-1

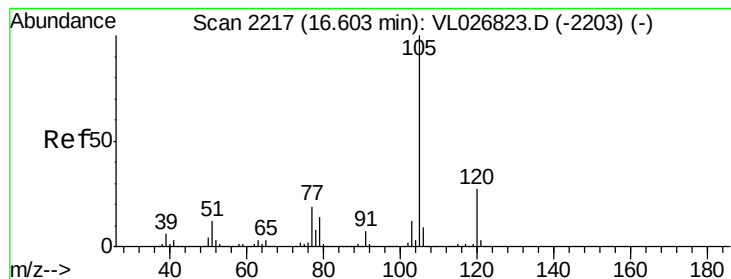
Tgt Ion: 91 Resp: 1442532
Ion Ratio Lower Upper
91 100
106 45.8 22.3 66.8



#61
Styrene
Concen: 0.77 ppbv
RT: 15.36 min Scan# 2013
Delta R.T. -0.01 min
Lab File: VL026843.D
Acq: 10 Feb 2016 6:53

Tgt Ion: 104 Resp: 81410
Ion Ratio Lower Upper
104 100
78 49.2 39.8 59.6
103 48.6 38.2 57.4





#62

Isopropylbenzene

Concen: 0.51 ppbv

RT: 16.59 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

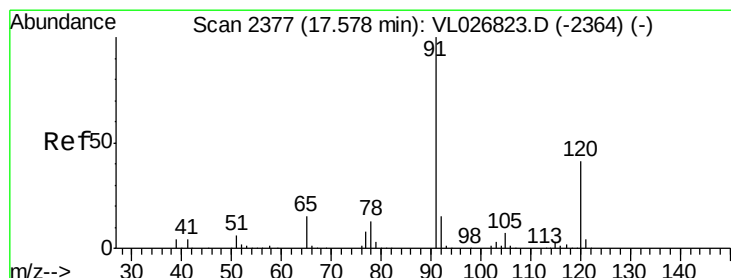
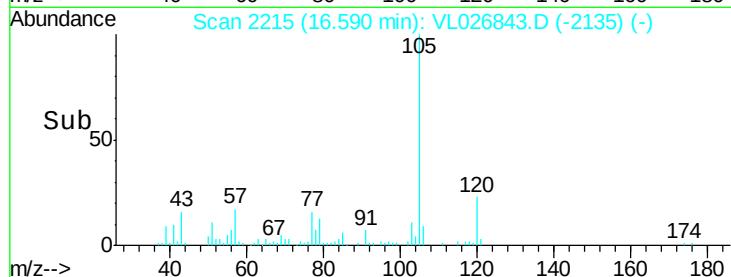
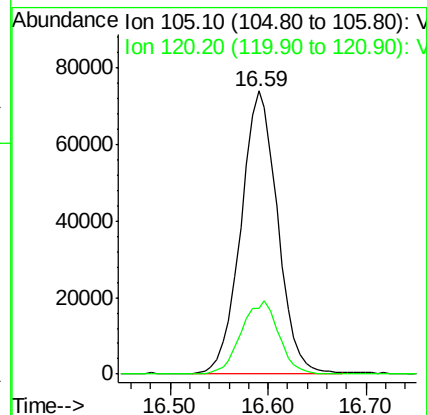
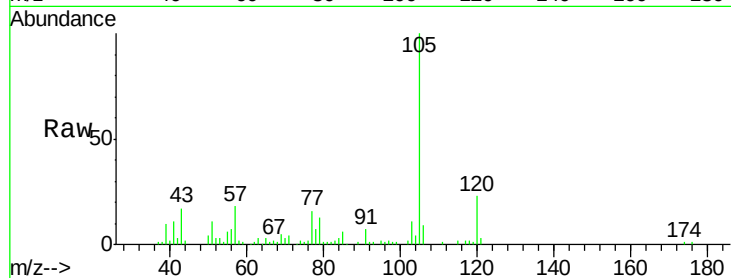
IA-1

Tgt Ion:105 Resp: 192967

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4



#64

n-propylbenzene

Concen: 1.19 ppbv

RT: 17.57 min Scan# 2375

Delta R.T. -0.01 min

Lab File: VL026843.D

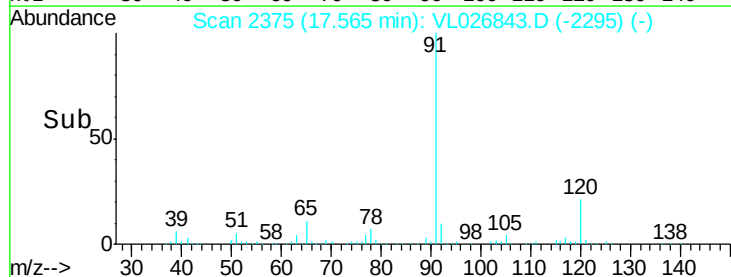
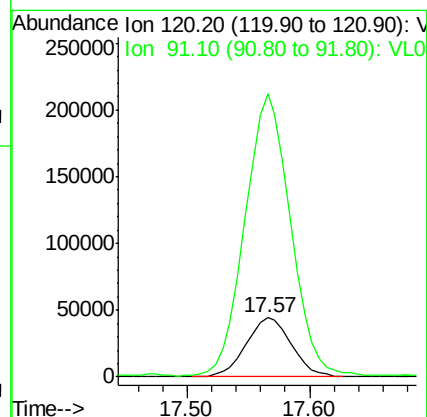
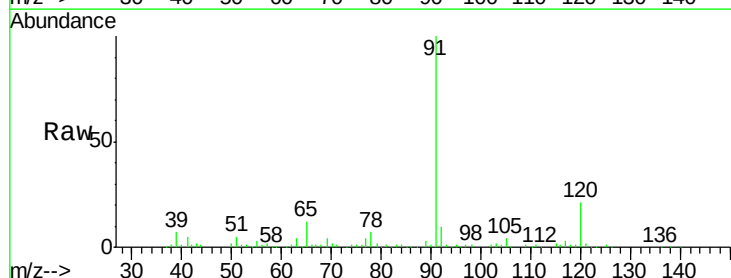
Acq: 10 Feb 2016 6:53

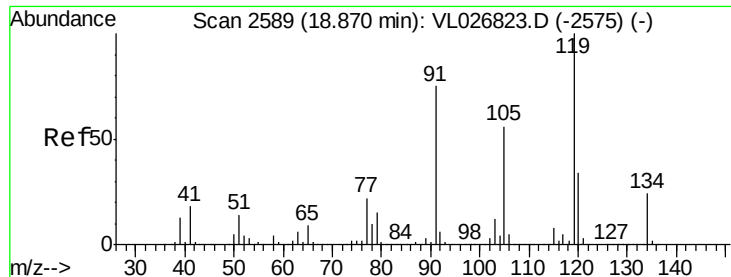
Tgt Ion:120 Resp: 114722

Ion Ratio Lower Upper

120 100

91 491.6 363.0 544.6

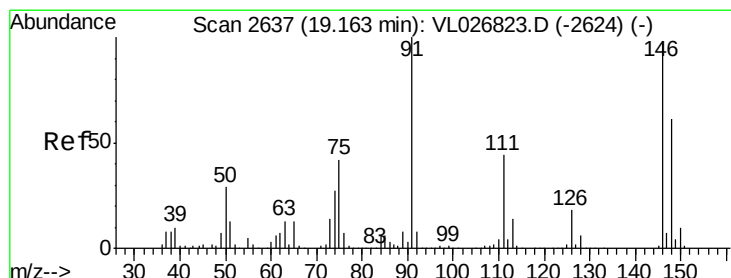
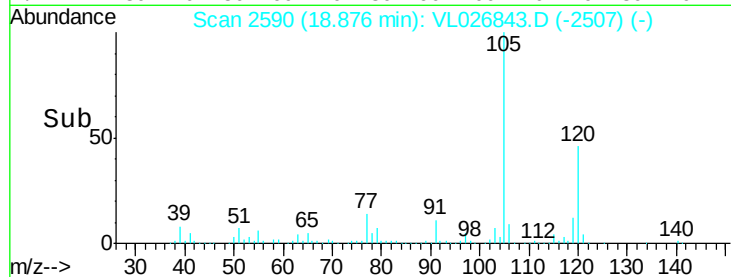
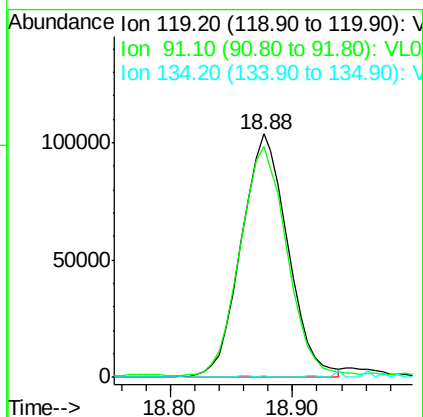
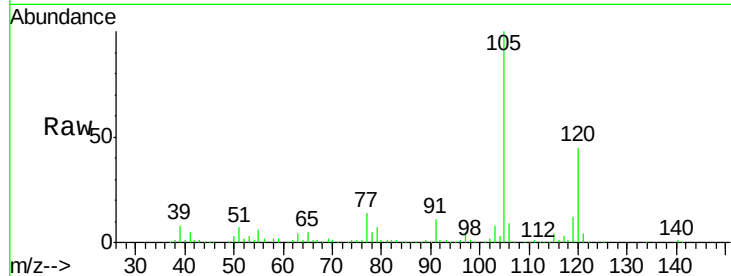




#65
 tert-Butylbenzene
 Concen: 0.79 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. 0.01 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

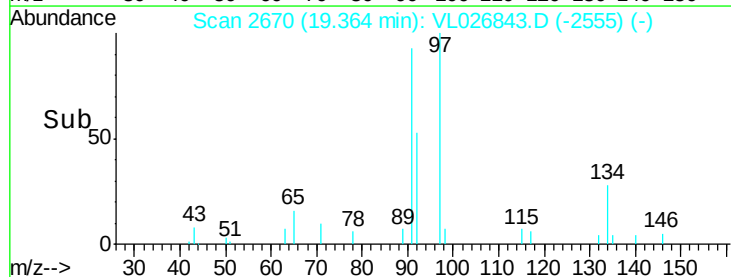
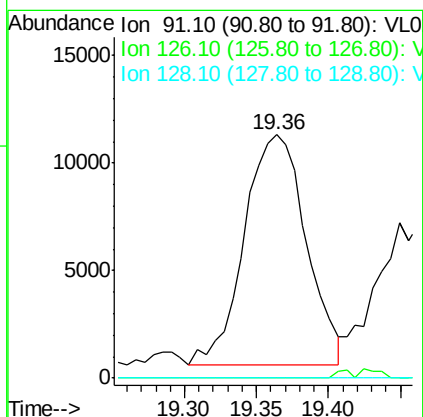
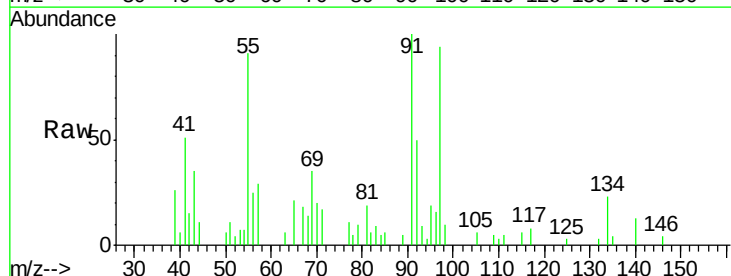
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

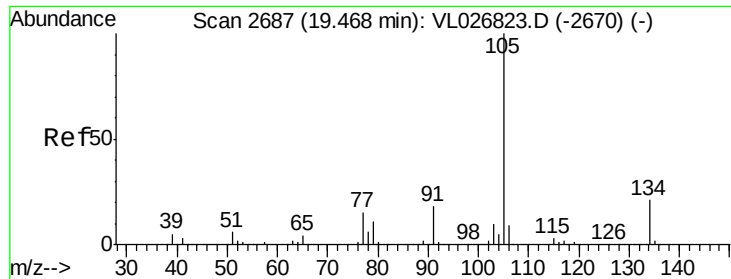
Tgt Ion: 119 Resp: 271939
 Ion Ratio Lower Upper
 119 100
 91 95.1 61.5 92.3#
 134 0.6 17.9 26.9#



#66
 Benzyl Chloride
 Concen: 0.28 ppbv
 RT: 19.36 min Scan# 2670
 Delta R.T. 0.20 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

Tgt Ion: 91 Resp: 31863
 Ion Ratio Lower Upper
 91 100
 126 1.2 14.6 21.8#
 128 0.0 4.6 6.8#





#67

sec-Butylbenzene

Concen: 0.22 ppbv

RT: 19.46 min Scan# 2685

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

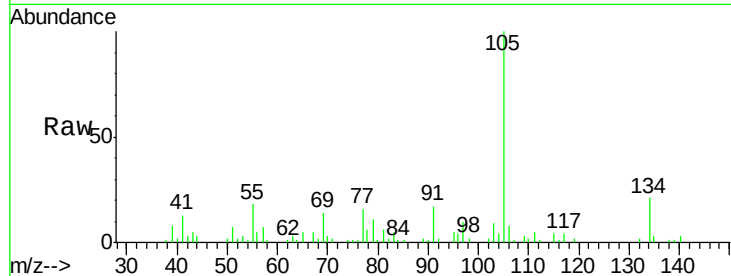
IA-1

Tgt Ion: 105 Resp: 100355

Ion Ratio Lower Upper

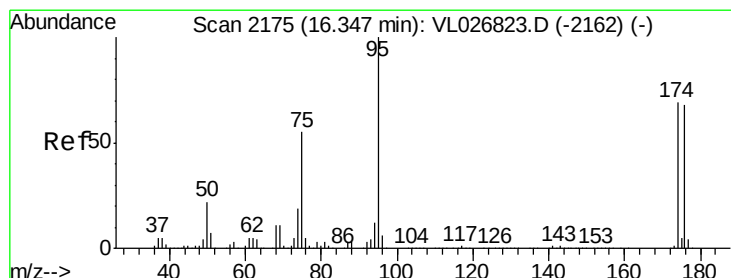
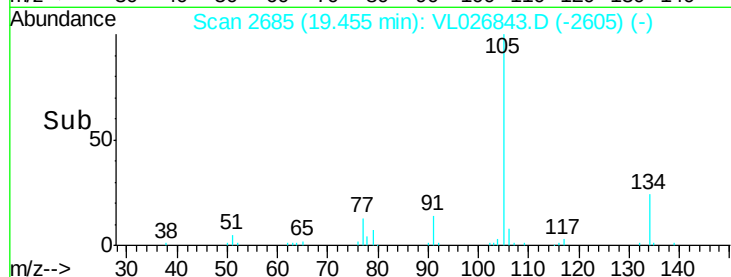
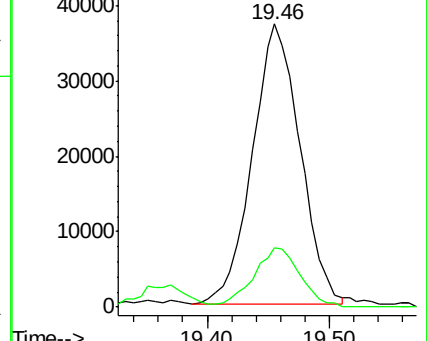
105 100

134 20.9 16.1 24.1



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: 12.42 ppbv

RT: 16.33 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

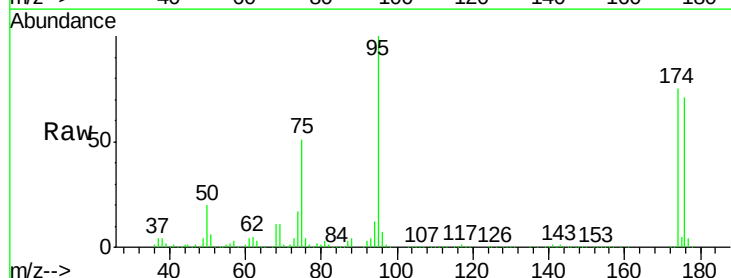
Tgt Ion: 95 Resp: 2480143

Ion Ratio Lower Upper

95 100

174 74.3 55.6 83.4

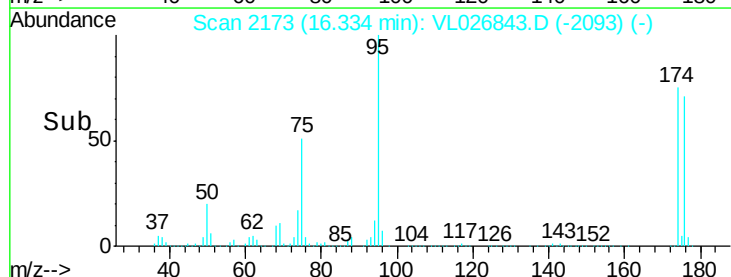
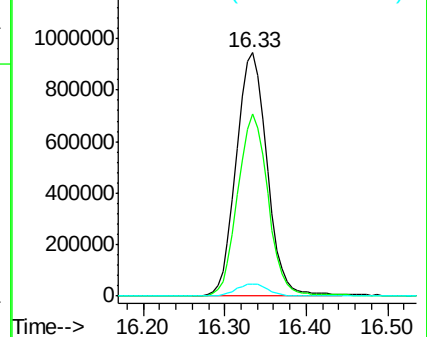
175 5.2 3.9 5.9

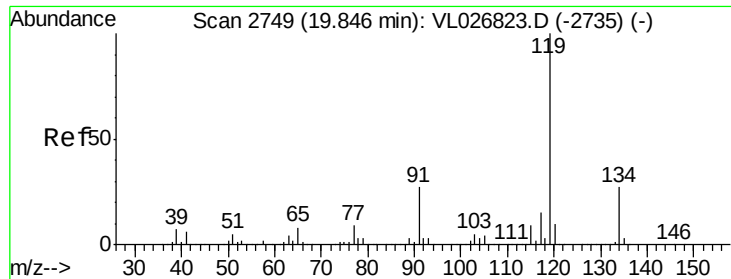


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

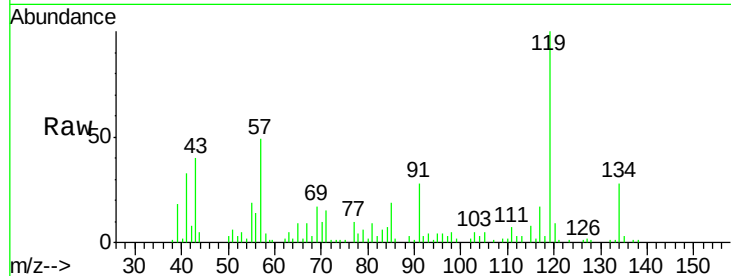




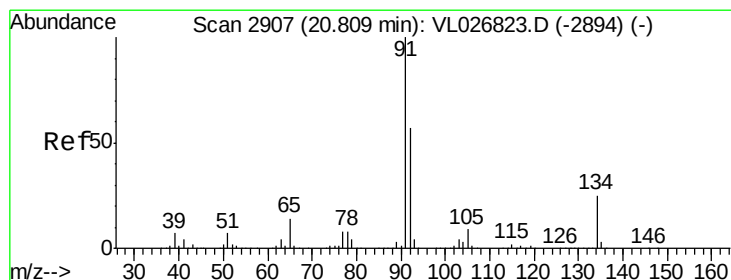
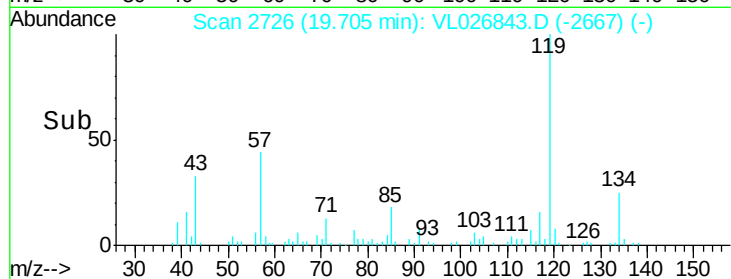
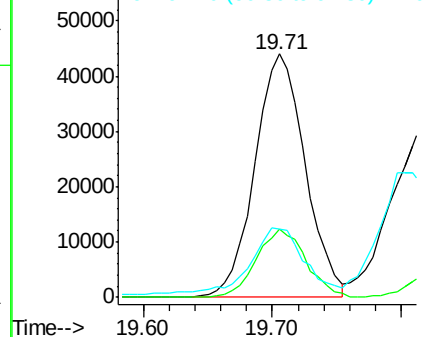
#69
 p-Isopropyltoluene
 Concen: 0.33 ppbv
 RT: 19.71 min Scan# 2726
 Delta R.T. -0.14 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.5	21.3	31.9
91	29.1	21.5	32.3

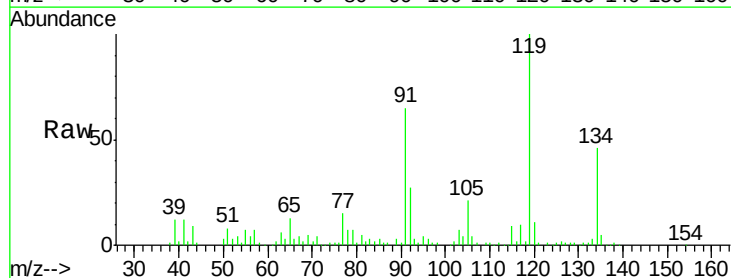


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

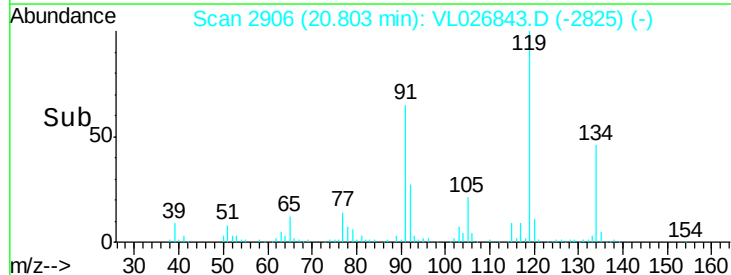
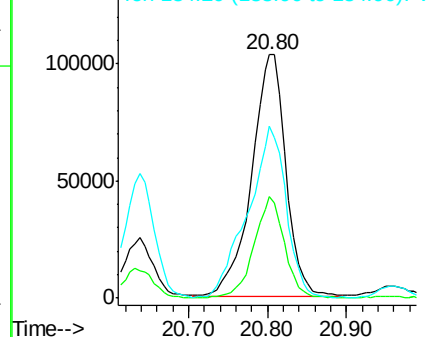


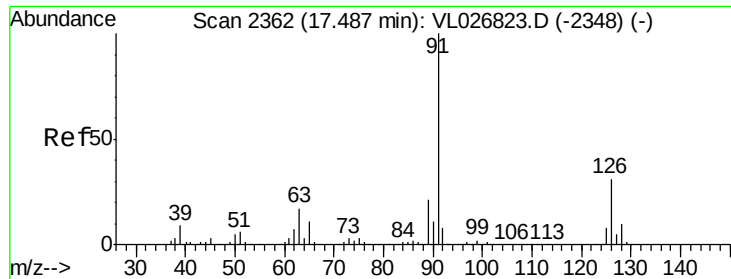
#70
 n-Butylbenzene
 Concen: 0.90 ppbv
 RT: 20.80 min Scan# 2906
 Delta R.T. -0.01 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	37.2	44.2	66.4#
134	79.6	19.3	28.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 2.12 ppbv

RT: 17.57 min Scan# 2375

Delta R.T. 0.08 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

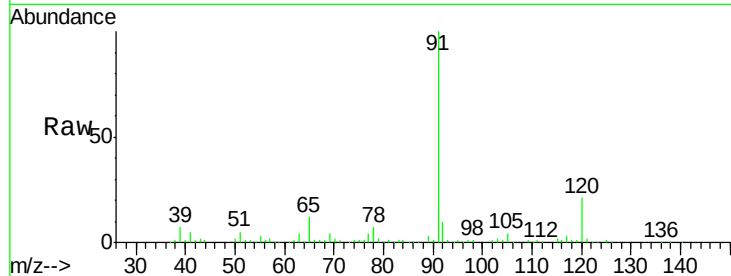
IA-1

Tgt Ion: 91 Resp: 544697

Ion Ratio Lower Upper

91 100

126 0.2 12.2 48.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

250000

200000

150000

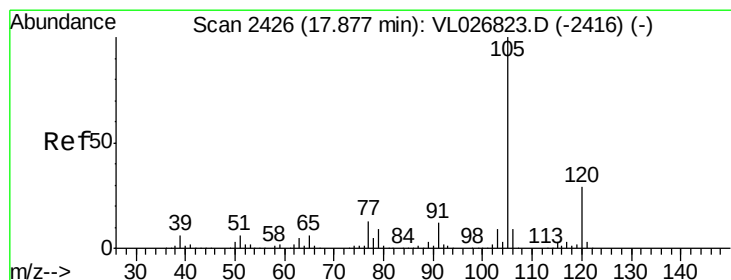
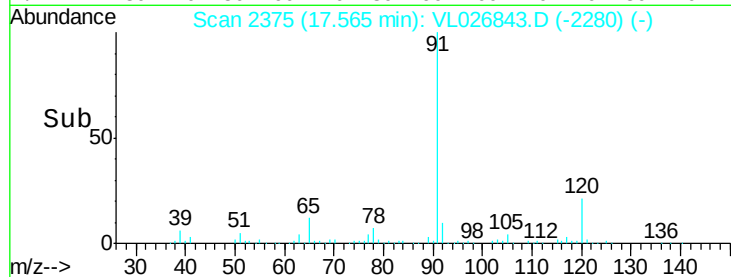
100000

50000

0

17.50 17.60

Time-->



#72

4-Ethyltoluene

Concen: 2.52 ppbv

RT: 17.86 min Scan# 2424

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Tgt Ion: 105 Resp: 726576

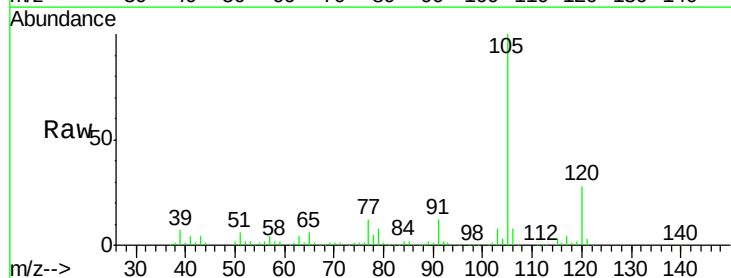
Ion Ratio Lower Upper

105 100

120 29.2 23.8 35.6

91 12.1 10.2 15.4

77 12.3 10.8 16.2



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

800000

600000

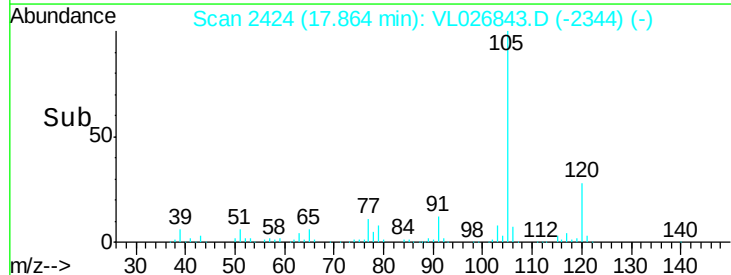
400000

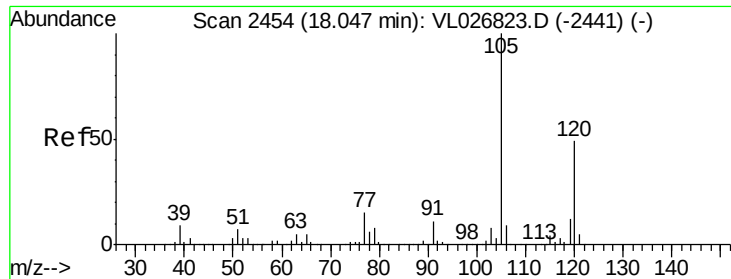
200000

0

17.80 17.90

Time-->

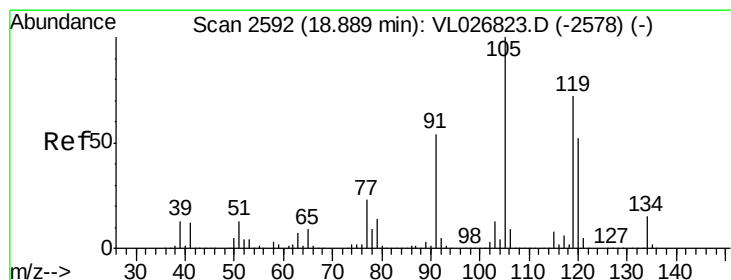
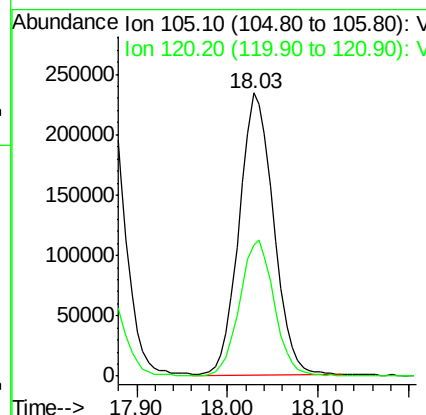
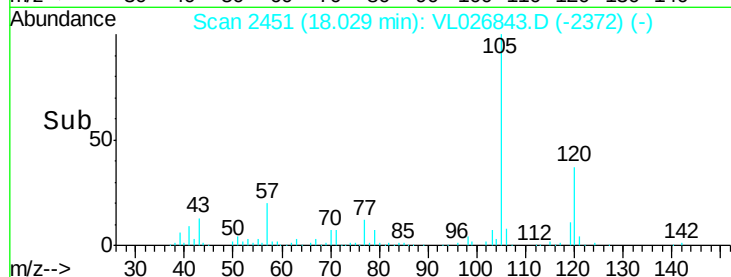
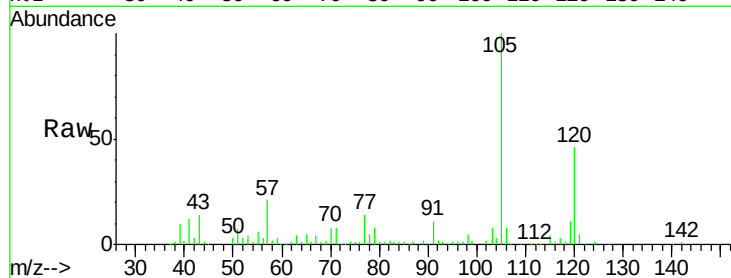




#73
 1,3,5-Trimethylbenzene
 Concen: 2.18 ppbv
 RT: 18.03 min Scan# 2451
 Delta R.T. -0.02 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

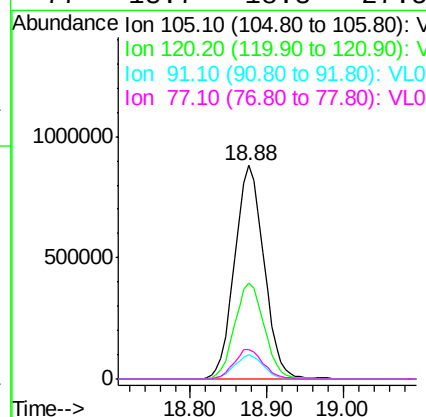
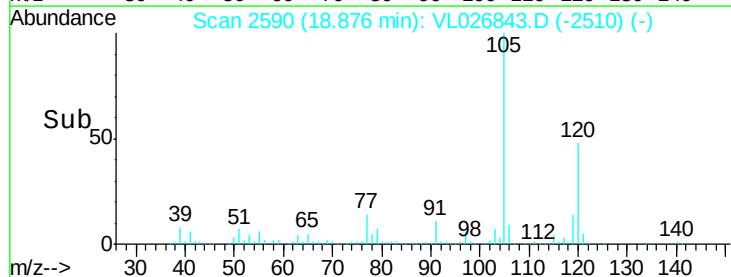
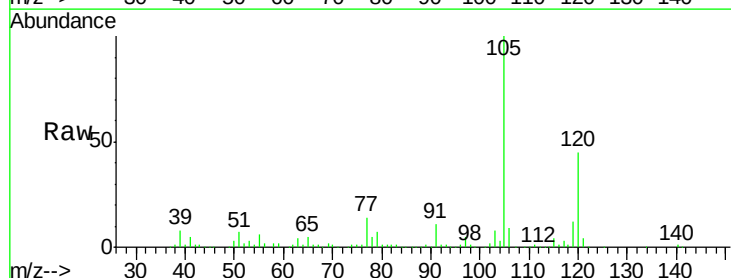
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

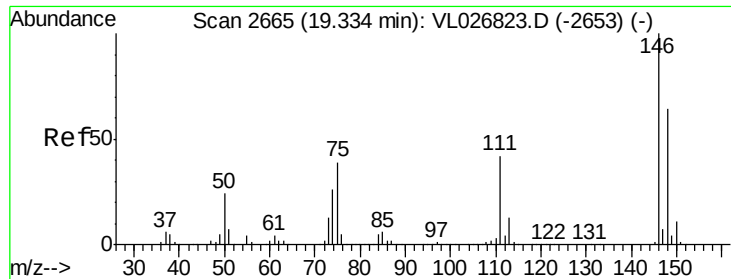
Tgt Ion:105 Resp: 612058
 Ion Ratio Lower Upper
 105 100
 120 46.4 39.4 59.0



#74
 1,2,4-Trimethylbenzene
 Concen: 7.33 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: VL026843.D
 Acq: 10 Feb 2016 6:53

Tgt Ion:105 Resp: 2340808
 Ion Ratio Lower Upper
 105 100
 120 45.3 41.3 61.9
 91 11.1 43.3 64.9#
 77 13.7 18.3 27.5#





#76

1,4-Dichlorobenzene

Concen: 0.04 ppbv

RT: 19.32 min Scan# 2663

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

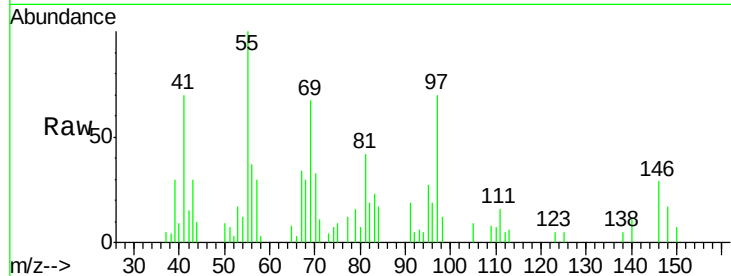
Instrument :

MSVOA_L

ClientSampled :

IA-1

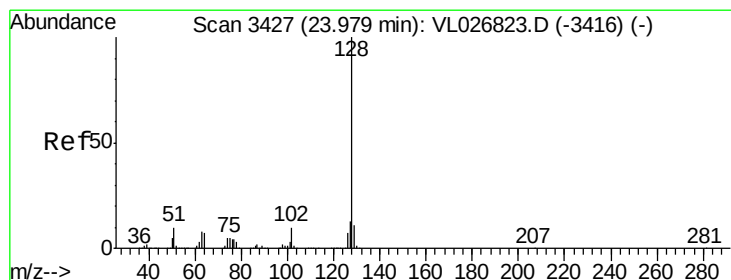
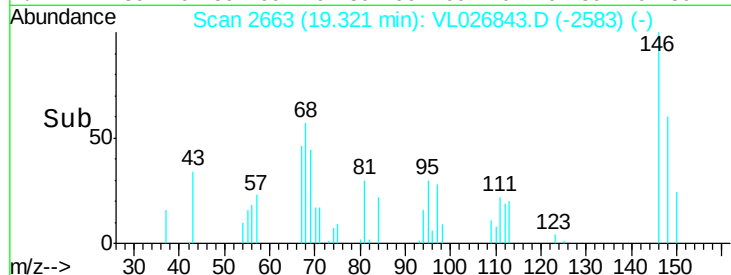
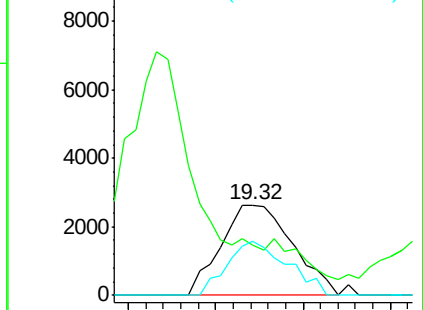
Tgt Ion:	146	Resp:	7516
Ion	Ratio	Lower	Upper
146	100		
111	299.7	21.6	64.8#
148	50.6	32.2	96.6



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: 2.30 ppbv

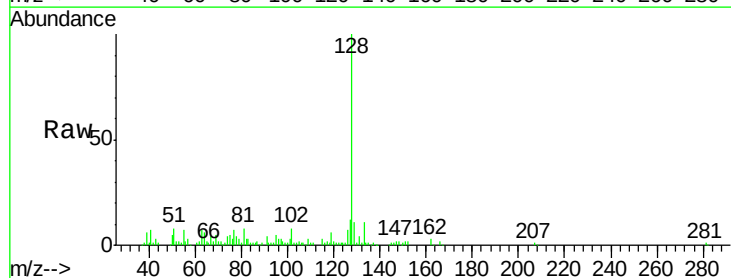
RT: 23.97 min Scan# 3426

Delta R.T. -0.01 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

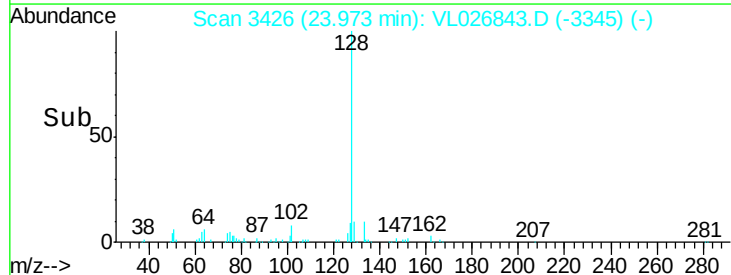
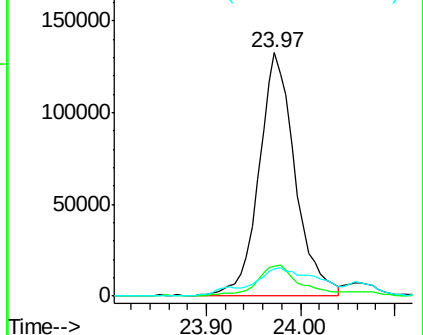
Tgt Ion:	128	Resp:	353458
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.0	15.0
129	11.2	8.7	13.1

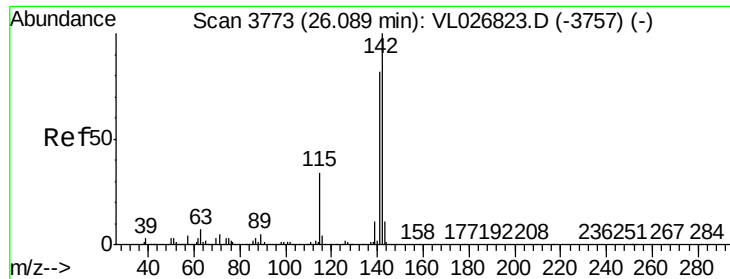


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 1.42 ppbv

RT: 26.41 min Scan# 3826

Delta R.T. 0.32 min

Lab File: VL026843.D

Acq: 10 Feb 2016 6:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

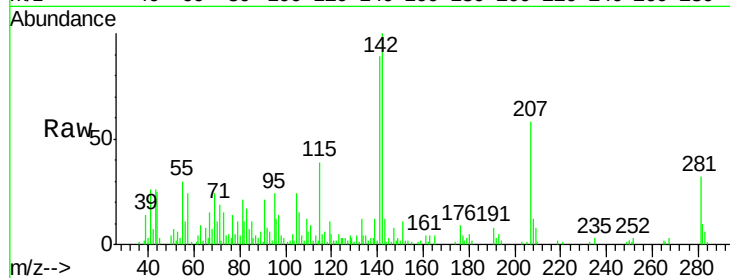
Tgt Ion:142 Resp: 88276

Ion Ratio Lower Upper

142 100

141 87.0 67.2 100.8

115 33.9 27.5 41.3



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

