

Data File : VL032638.D

Acq On : 17 Oct 2018 13:12

Operator : SY/AP

Sample : J5500-02

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

Quant Time: Oct 17 16:24:25 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 08:55:11 2018

QLast Update : Wed Oct 17 08:55:11 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	15758433	10.00	ppbv	0.12
33) 1,4-Difluorobenzene	7.39	114	2349463	10.00	ppbv	0.08
55) Chlorobenzene-d5	12.29	117	3223896	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2517377	10.37	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.09	85	8718	Below Cal	94
3) Chlorodifluoromethane	3.38	51	1667821	1.265 ppbv #	58
5) Vinyl Chloride	3.30	62	44877	0.062 ppbv	94
7) Chloroethane	3.62	64	78142	0.275 ppbv	99
9) Propene	3.05	41	6031861	12.479 ppbv	94
10) Heptane	8.45	43	192619	0.106 ppbv	94
11) Trichlorofluoromethane	4.02	101	73669	0.036 ppbv	97
13) Ethanol	3.71	45	6602216	44.141 ppbv	98
15) Acetone	4.05	43	23776014	16.954 ppbv #	71
16) 1,3-Butadiene	3.46	39	1067882	2.057 ppbv #	9
17) tert-Butyl alcohol	4.49	59	1085074	8.478 ppbv #	100
18) 1,1-Dichloroethene	4.37	96	6783355	10.149 ppbv	82
19) Isopropyl Alcohol	4.15	45	1664880	1.681 ppbv #	93
20) Methylene Chloride	4.43	84	2245734	3.575 ppbv	94
21) Allyl Chloride	4.66	41	552183	0.525 ppbv #	1
22) trans-1,2-Dichloroethene	4.99	96	68635	0.089 ppbv	88
23) Vinyl Acetate	5.31	43	2759751	1.237 ppbv #	93
25) Ethyl Acetate	6.03	43	214943	0.065 ppbv #	1
26) Hexane	5.81	57	6079982	4.068 ppbv #	42
27) Carbon Disulfide	4.64	76	1791835	0.992 ppbv	100
30) Cyclohexane	7.35	84	1507513	1.279 ppbv #	42
31) cis-1,2-Dichloroethene	5.76	61	148414	0.103 ppbv	97
34) 2-Butanone	5.42	43	2046649	15.695 ppbv #	6
35) Carbon Tetrachloride	7.34	117	88464	0.486 ppbv	97
36) Benzene	7.13	78	23299915	122.348 ppbv #	86
37) 1,2-Dichloroethane	6.50	62	6073	0.046 ppbv #	84
38) Trichloroethene	8.05	130	5905626	82.477 ppbv	99
39) 1,2-Dichloropropane	7.83	63	34594	0.447 ppbv #	59
40) 1,4-Dioxane	8.05	88	5351	0.200 ppbv #	1
41) Tetrahydrofuran	6.20	42	1237822	17.892 ppbv #	35
42) Bromodichloromethane	8.01	83	448294	2.518 ppbv #	26
43) Methyl Methacrylate	8.26	69	350440	4.746 ppbv #	39
44) 2,2,4-Trimethylpentane	8.08	57	378444	1.121 ppbv #	1
47) 1,1,2-Trichloroethane	9.69	97	72742	0.786 ppbv	96
50) 4-Methyl-2-Pentanone	9.02	43	127153	0.662 ppbv #	38
51) 2-Hexanone	10.40	43	165974	1.100 ppbv #	28
52) Tetrachloroethene	11.43	164	738787	11.784 ppbv	96
53) Toluene	10.02	91	20216895	93.118 ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.34	131	7574	0.051 ppbv #	9
57) Chlorobenzene	12.39	112	305903	1.248 ppbv #	37
58) Ethyl Benzene	12.91	91	4693602	12.964 ppbv	99

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Instrument :
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ClientSampleId :
SS04-MIVI

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 17 08:55:11 2018
QLast Update : Wed Oct 17 08:55:11 2018
Response via : Initial Calibration

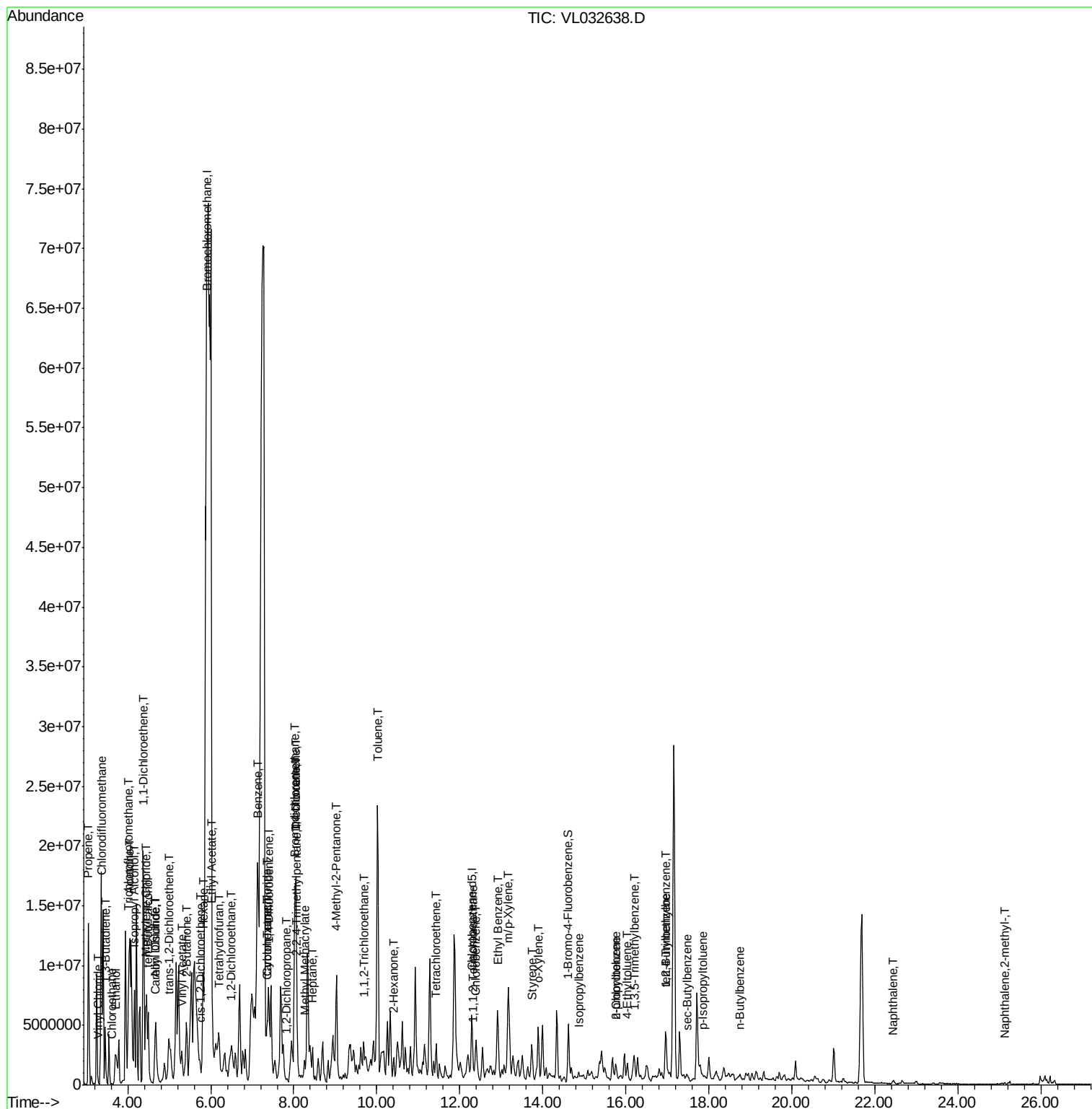
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) m/p-Xylene	13.16	91	7763319	24.020	ppbv	97
60) o-Xylene	13.89	91	3139303	9.748	ppbv	98
61) Styrene	13.72	104	1164739	5.968	ppbv	98
62) Isopropylbenzene	14.86	105	353940	0.771	ppbv	98
64) n-propylbenzene	15.76	120	165310	1.422	ppbv	86
65) tert-Butylbenzene	16.95	119	292857	0.752	ppbv #	65
67) sec-Butylbenzene	17.49	105	226367	0.386	ppbv	98
69) p-Isopropyltoluene	17.85	119	150983	0.340	ppbv	96
70) n-Butylbenzene	18.75	91	216110	0.442	ppbv #	56
71) 2-Chlorotoluene	15.76	91	834817	2.461	ppbv #	50
72) 4-Ethyltoluene	16.04	105	747651	2.148	ppbv	98
73) 1,3,5-Trimethylbenzene	16.19	105	597963	1.727	ppbv	100
74) 1,2,4-Trimethylbenzene	16.96	105	1932871	5.070	ppbv #	78
79) Naphthalene	22.44	128	302800	1.168	ppbv	99
80) Naphthalene,2-methyl-	25.14	142	31141	1.084	ppbv #	94

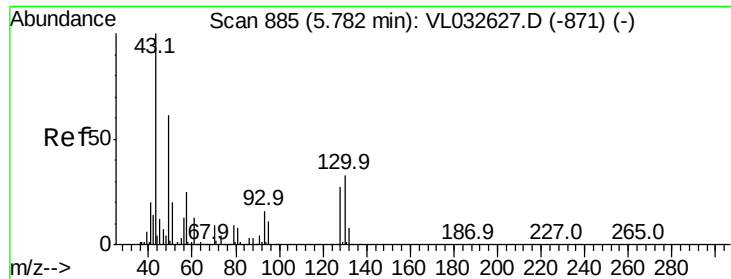
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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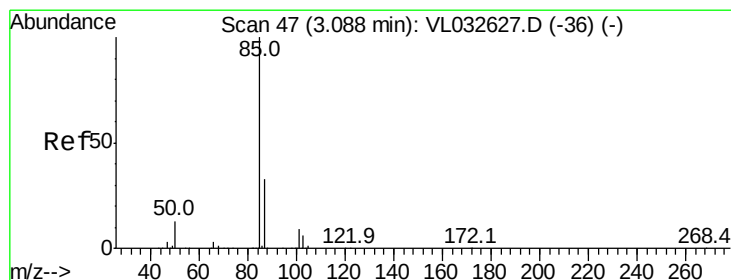
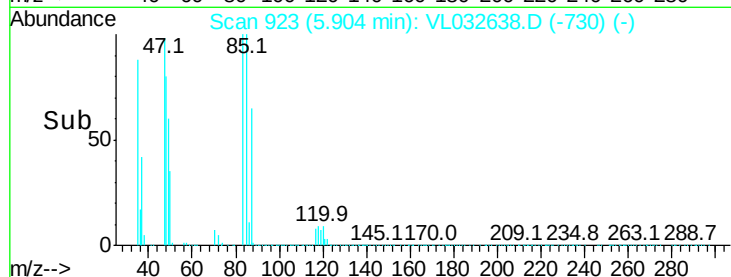
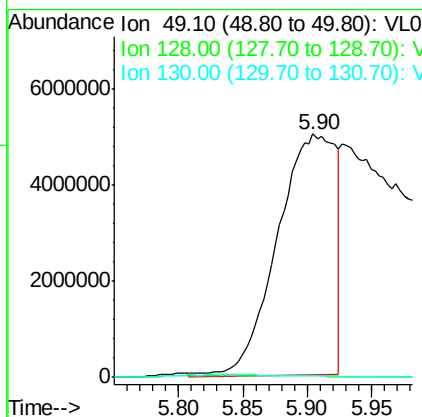
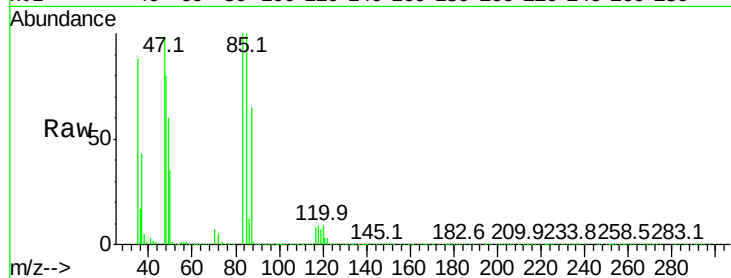




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.90 min Scan# 923
Delta R.T. 0.12 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

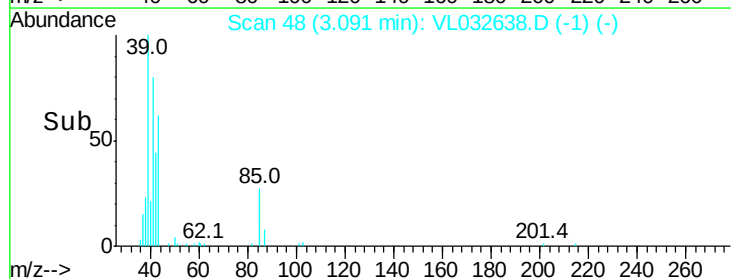
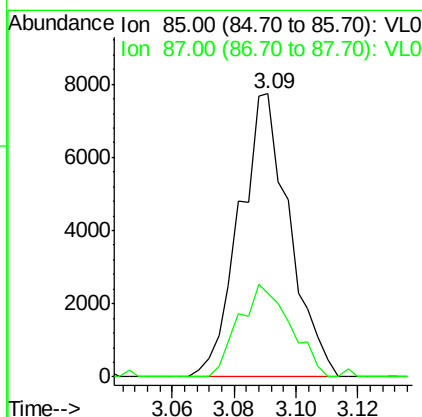
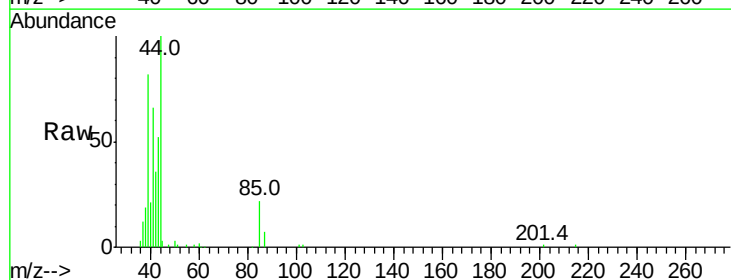
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

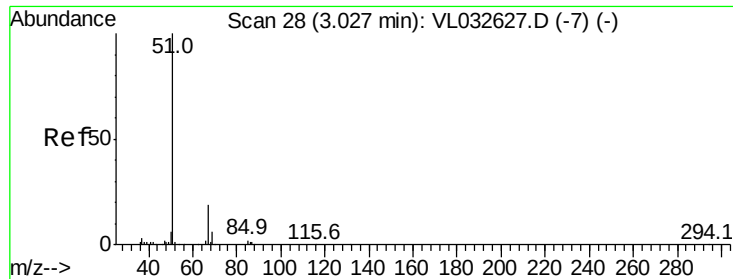
Tgt Ion: 49 Resp:15758433
Ion Ratio Lower Upper
49 100
128 0.6 22.3 66.8#
130 0.9 28.4 85.3#



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 3.09 min Scan# 48
Delta R.T. 0.00 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion: 85 Resp: 8718
Ion Ratio Lower Upper
85 100
87 29.6 26.2 39.2





#3

Chlorodifluoromethane

Concen: 1.265 ppbv

RT: 3.38 min Scan# 137

Delta R.T. 0.35 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

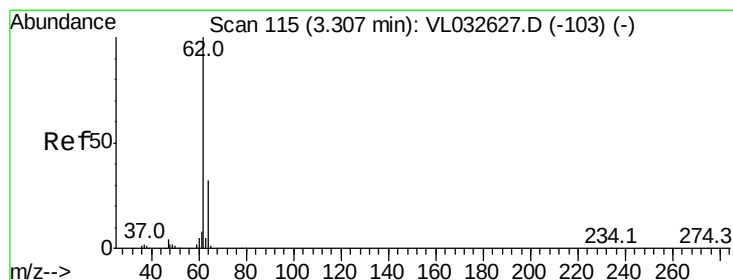
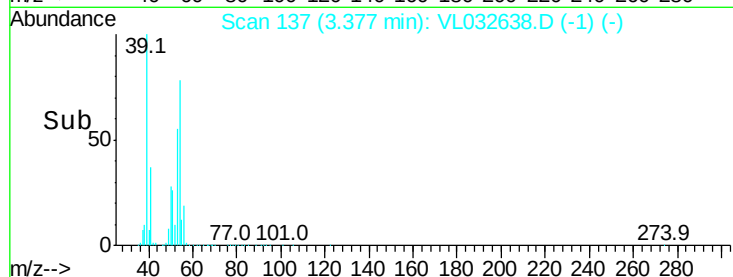
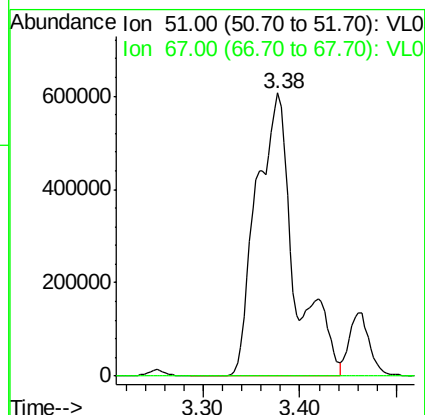
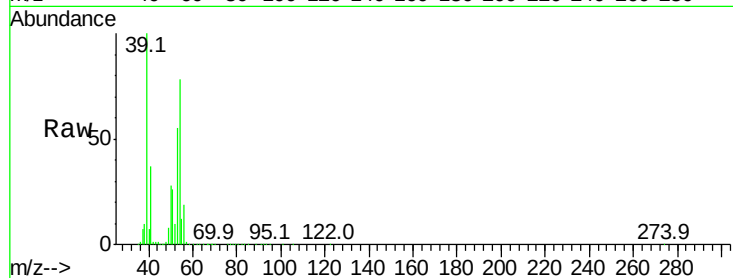
SS04-MIVI

Tgt Ion: 51 Resp: 1667821

Ion Ratio Lower Upper

51 100

67 0.2 15.2 22.8#



#5

Vinyl Chloride

Concen: 0.062 ppbv

RT: 3.30 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL032638.D

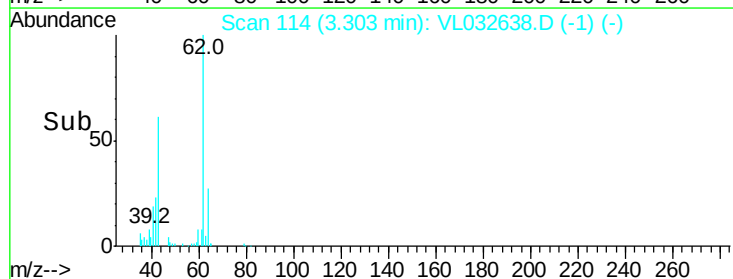
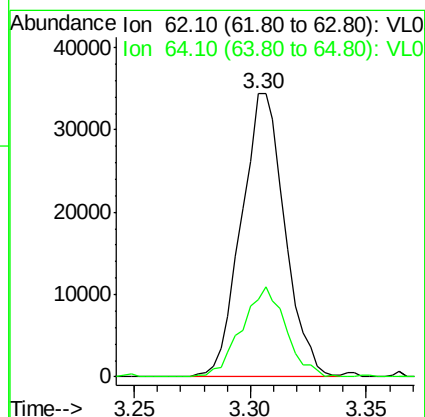
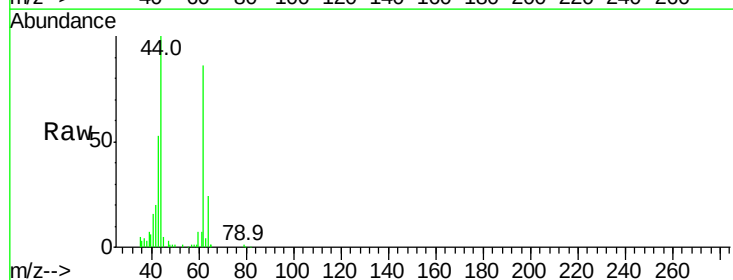
Acq: 17 Oct 2018 13:12

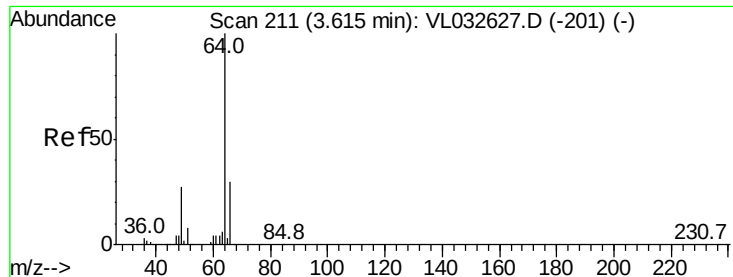
Tgt Ion: 62 Resp: 44877

Ion Ratio Lower Upper

62 100

64 28.7 25.5 38.3





#7

Chloroethane

Concen: 0.275 ppbv

RT: 3.62 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

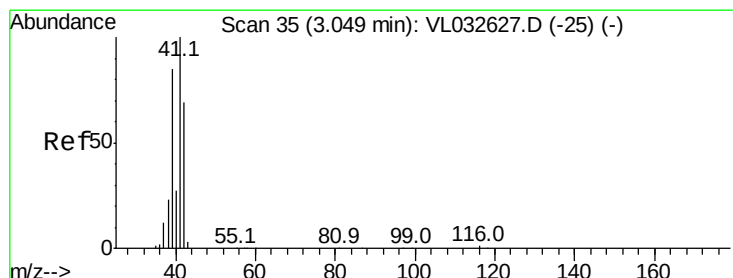
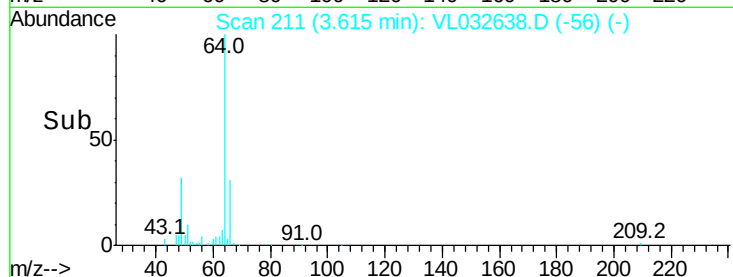
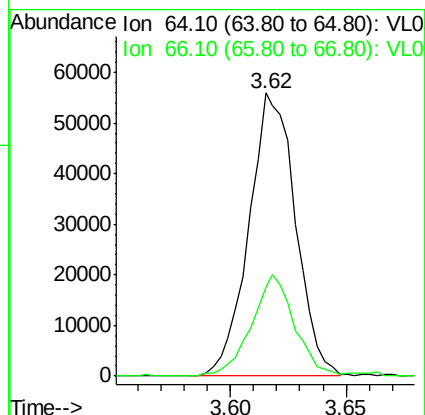
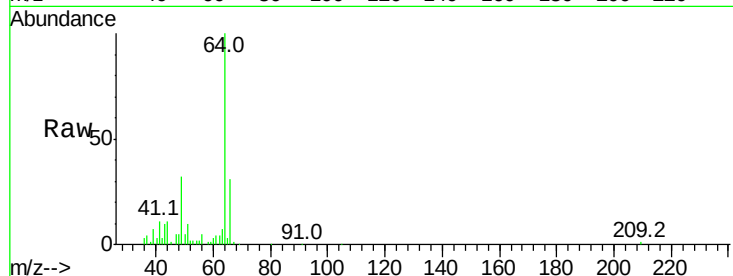
SS04-MIVI

Tgt Ion: 64 Resp: 78142

Ion Ratio Lower Upper

64 100

66 31.3 24.4 36.6



#9

Propene

Concen: 12.479 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.00 min

Lab File: VL032638.D

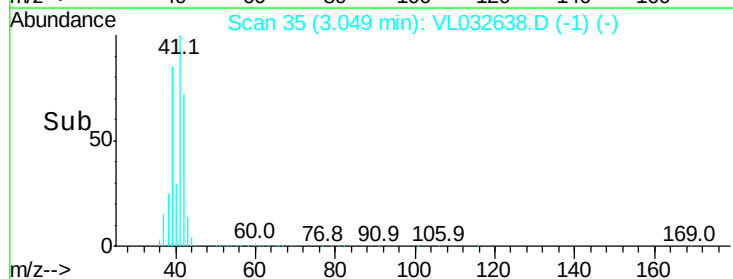
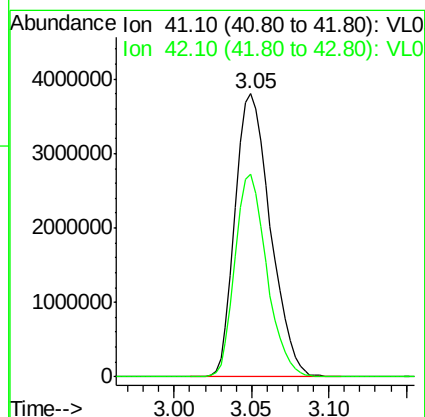
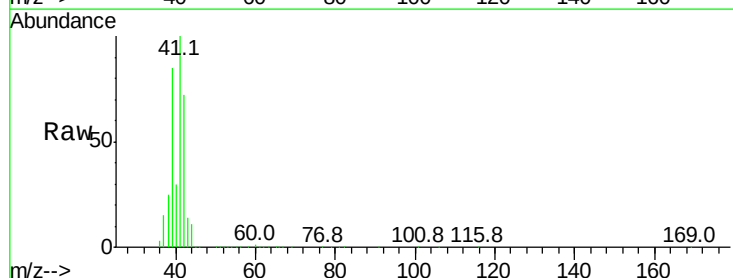
Acq: 17 Oct 2018 13:12

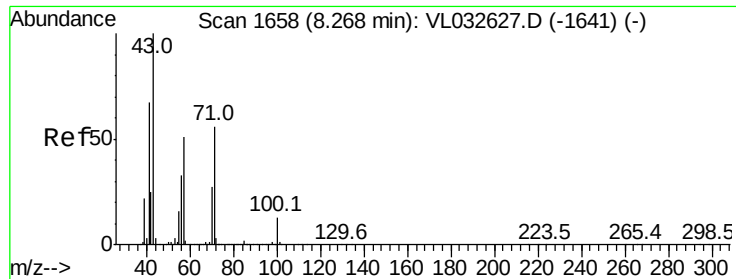
Tgt Ion: 41 Resp: 6031861

Ion Ratio Lower Upper

41 100

42 64.4 55.4 83.0





#10

Heptane

Concen: 0.106 ppbv

RT: 8.45 min Scan# 1715

Delta R.T. 0.18 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

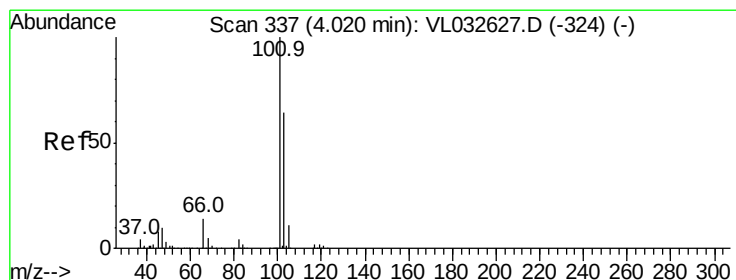
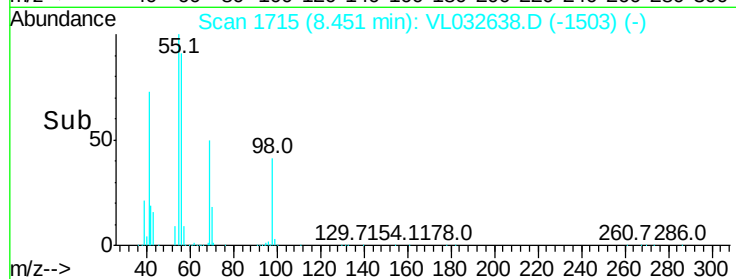
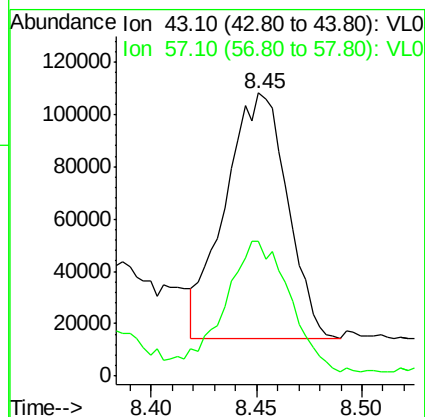
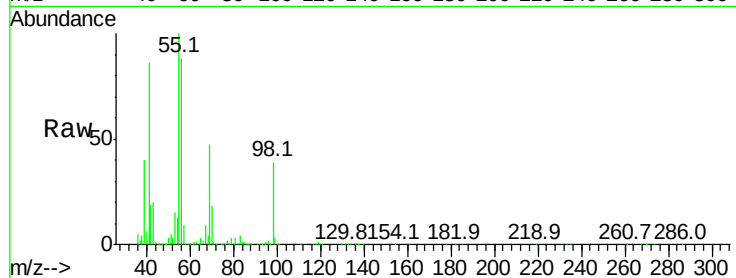
SS04-MIVI

Tgt Ion: 43 Resp: 192619

Ion Ratio Lower Upper

43 100

57 56.1 41.5 62.3



#11

Trichlorofluoromethane

Concen: 0.036 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL032638.D

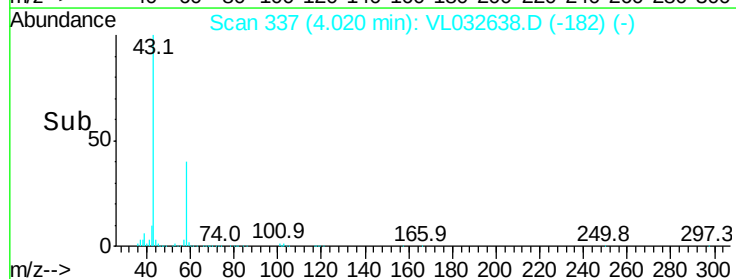
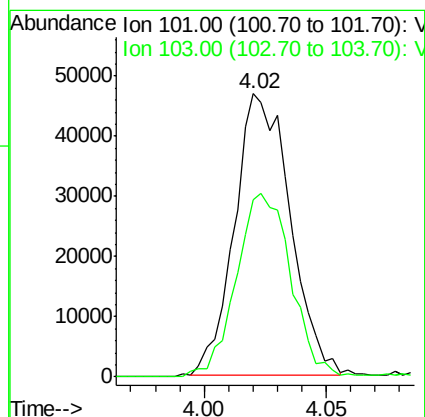
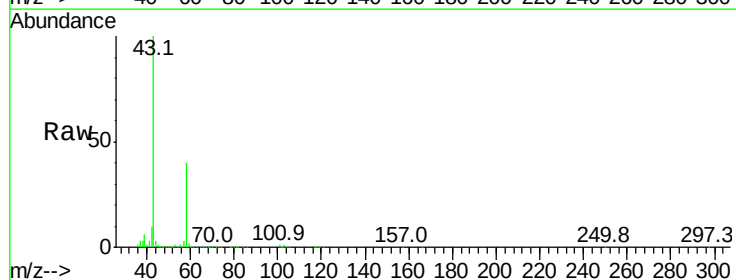
Acq: 17 Oct 2018 13:12

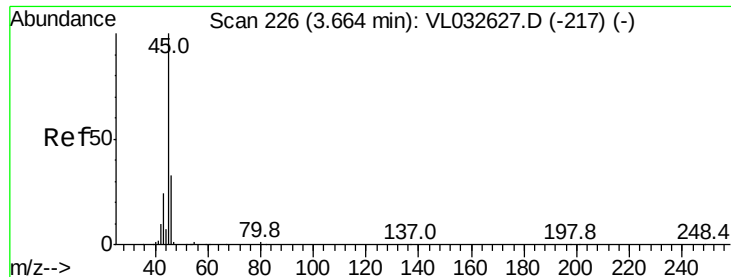
Tgt Ion: 101 Resp: 73669

Ion Ratio Lower Upper

101 100

103 62.1 51.4 77.2

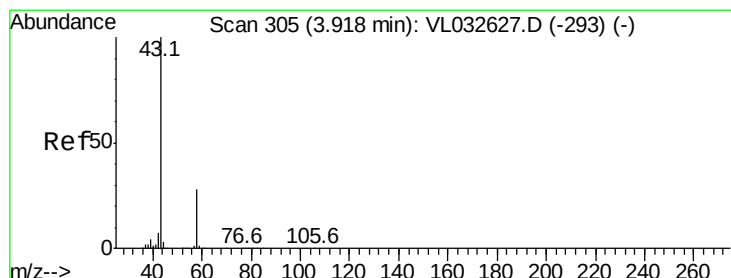
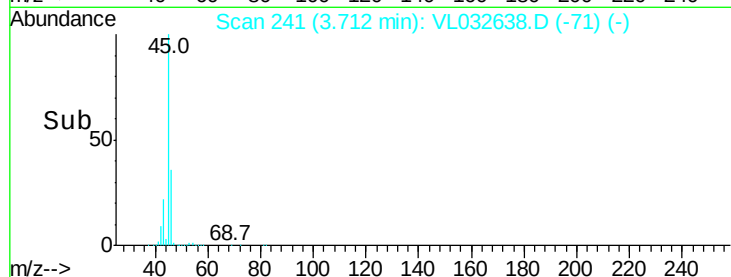
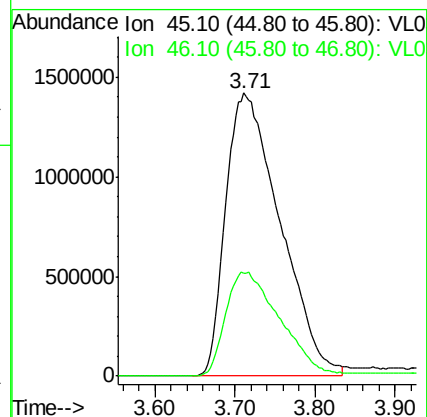
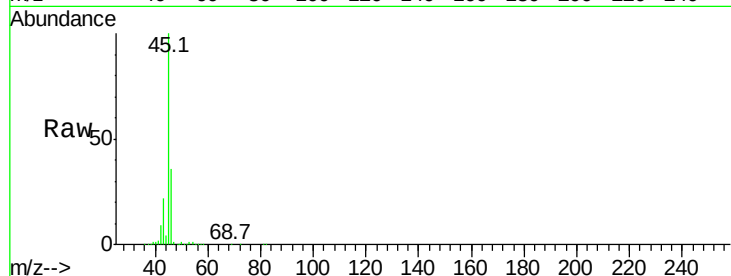




#13
Ethanol
Concen: 44.141 ppbv
RT: 3.71 min Scan# 241
Delta R.T. 0.05 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

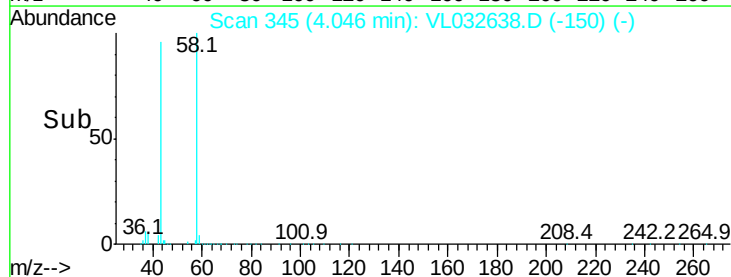
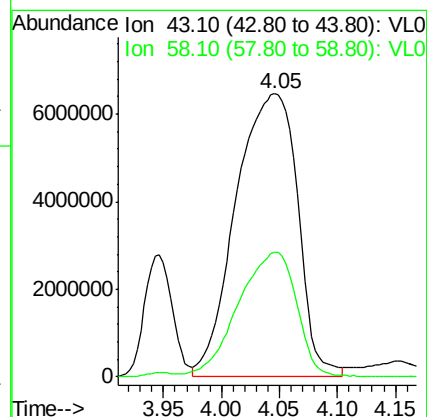
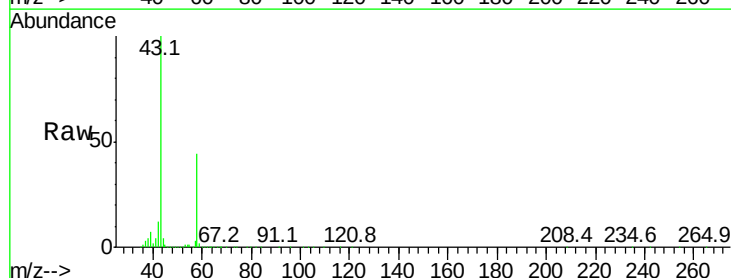
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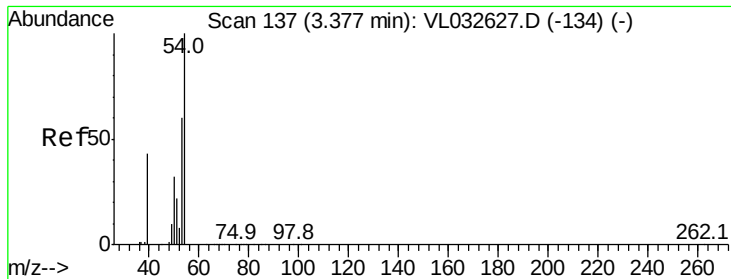
Tgt Ion: 45 Resp: 6602216
Ion Ratio Lower Upper
45 100
46 37.1 15.4 61.8



#15
Acetone
Concen: 16.954 ppbv
RT: 4.05 min Scan# 345
Delta R.T. 0.13 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion: 43 Resp: 23776014
Ion Ratio Lower Upper
43 100
58 42.9 22.1 33.1#

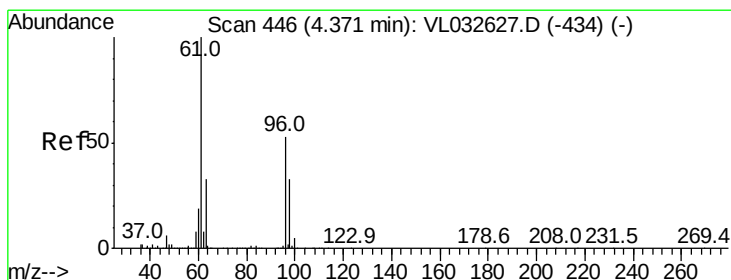
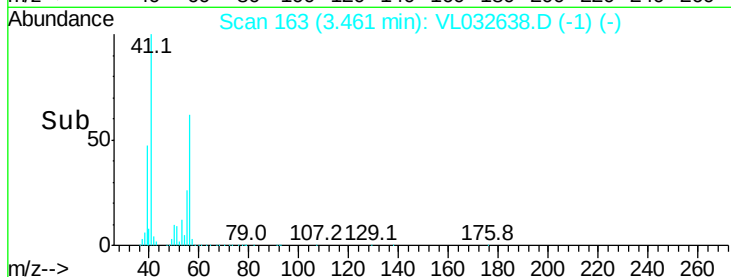
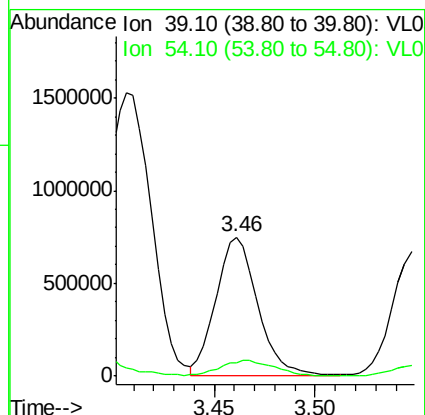
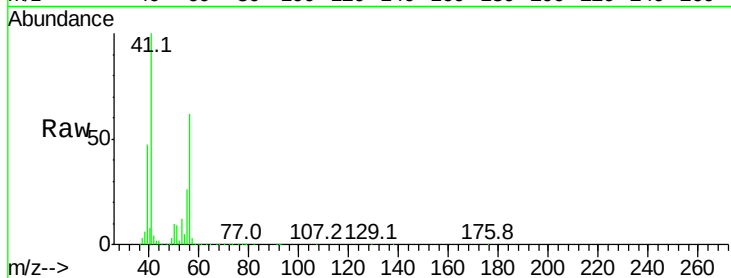




#16
 1,3-Butadiene
 Concen: 2.057 ppbv
 RT: 3.46 min Scan# 163
 Delta R.T. 0.08 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

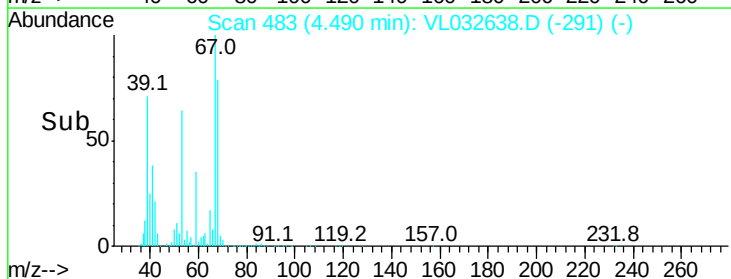
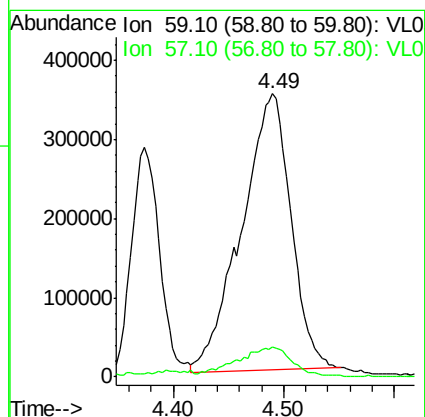
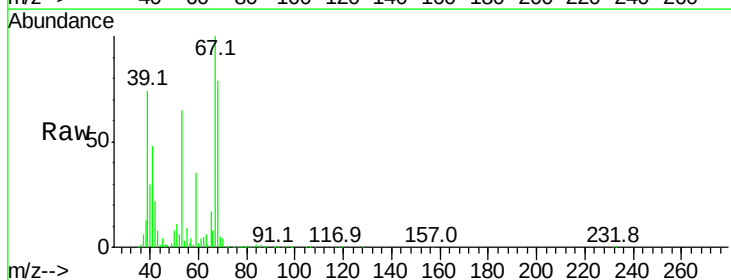
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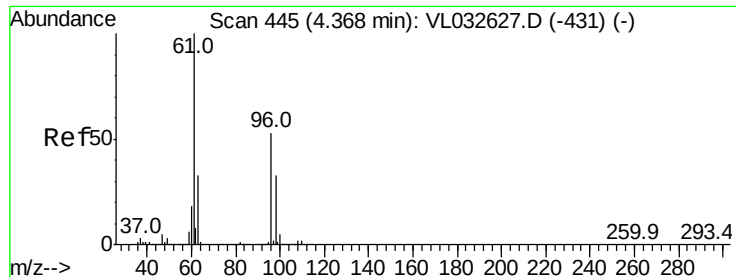
Tgt Ion: 39 Resp: 1067882
 Ion Ratio Lower Upper
 39 100
 54 15.0 90.4 135.6#



#17
 tert-Butyl alcohol
 Concen: 8.478 ppbv
 RT: 4.49 min Scan# 483
 Delta R.T. 0.12 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

Tgt Ion: 59 Resp: 1085074
 Ion Ratio Lower Upper
 59 100
 57 12.6 0.0 0.0#





#18

1,1-Dichloroethene

Concen: 10.149 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.01 min

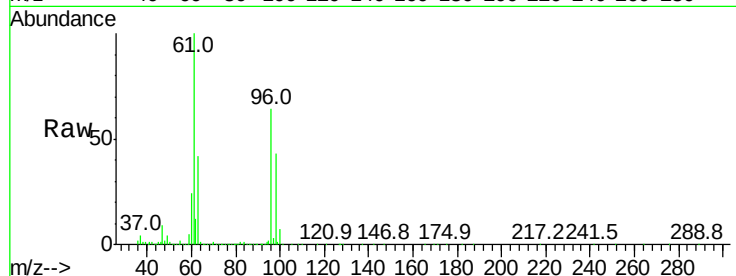
Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

Tgt Ion: 96 Resp: 6783355

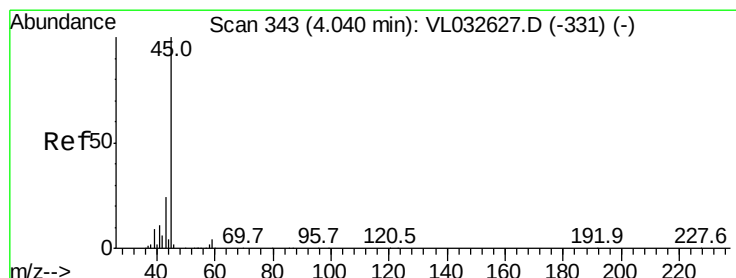
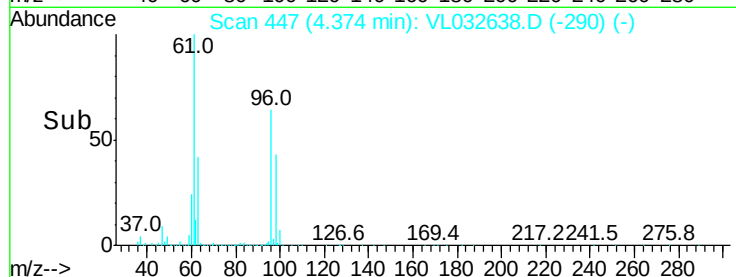
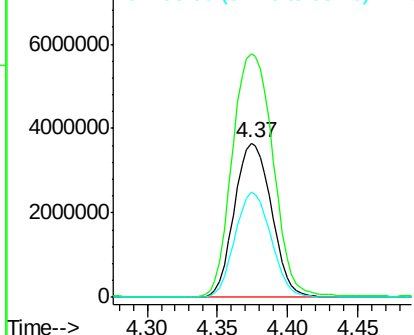
Ion	Ratio	Lower	Upper
96	100		
61	157.4	151.6	227.4
98	68.0	50.6	75.8



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 1.681 ppbv

RT: 4.15 min Scan# 376

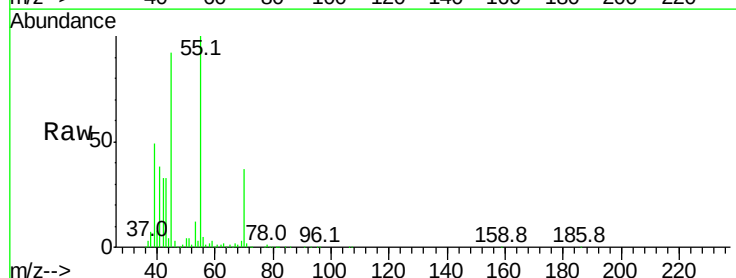
Delta R.T. 0.11 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

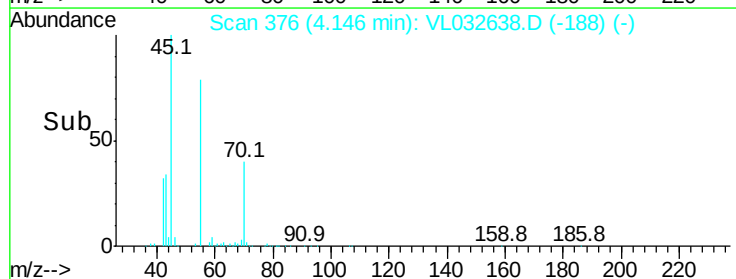
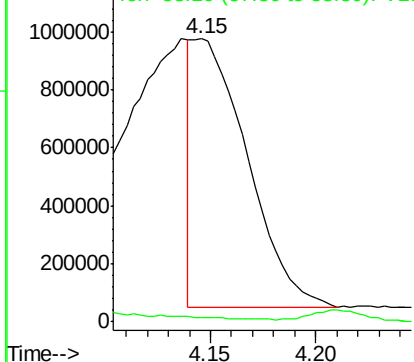
Tgt Ion: 45 Resp: 1664880

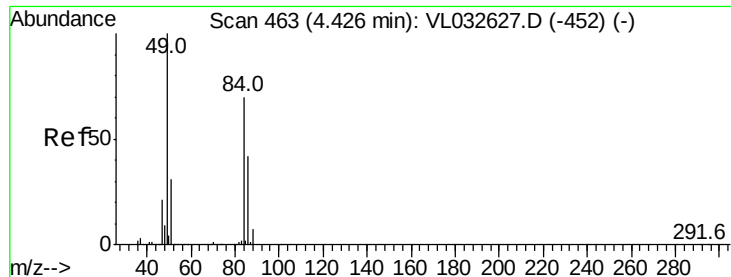
Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.0	3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

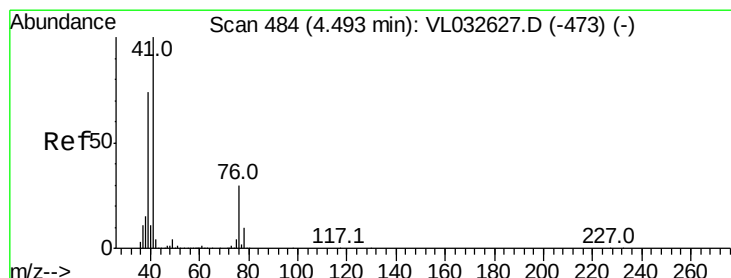
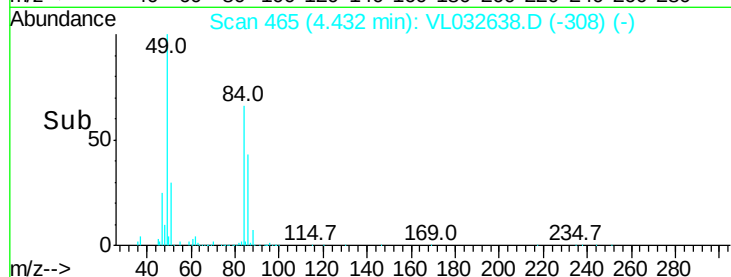
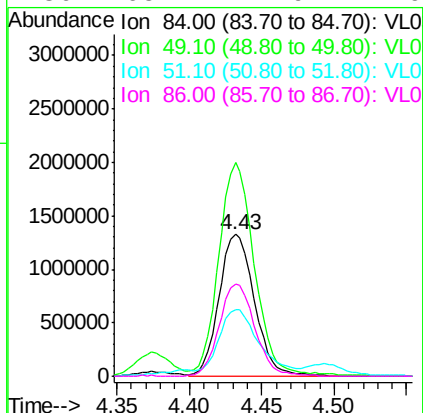
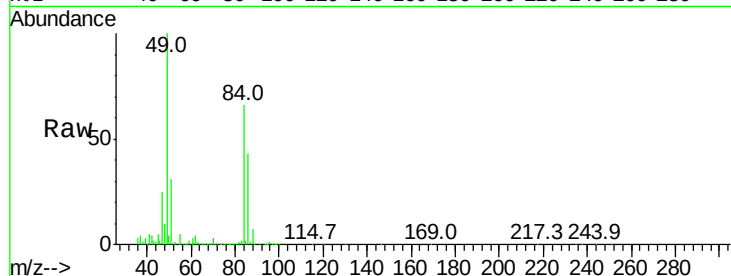




#20
Methylene Chloride
Concen: 3.575 ppbv
RT: 4.43 min Scan# 465
Delta R.T. 0.01 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

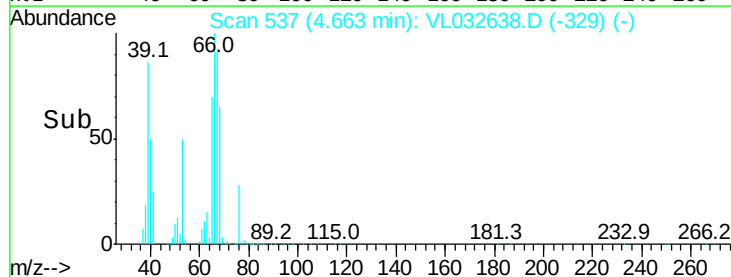
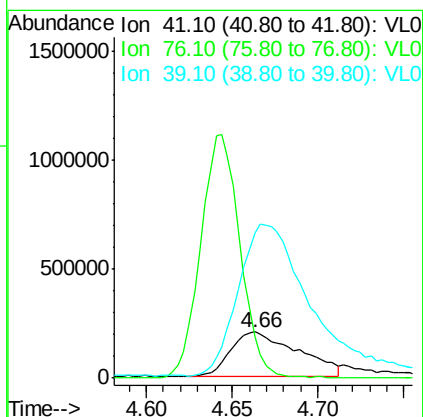
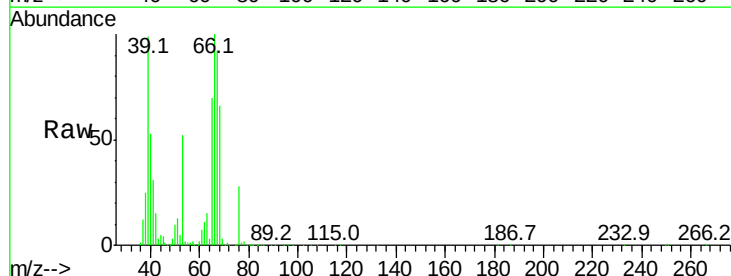
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

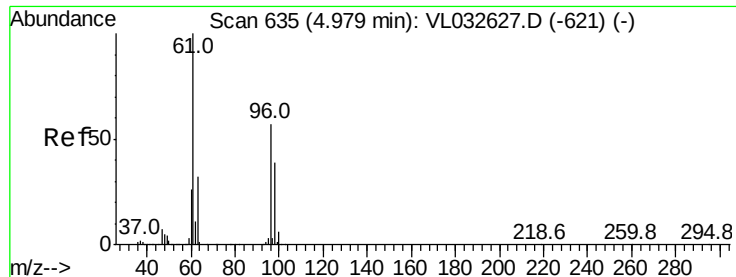
Tgt Ion: 84 Resp: 2245734
Ion Ratio Lower Upper
84 100
49 150.3 113.5 170.3
51 42.9 34.8 52.2
86 65.4 47.9 71.9



#21
Allyl Chloride
Concen: 0.525 ppbv
RT: 4.66 min Scan# 537
Delta R.T. 0.17 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion: 41 Resp: 552183
Ion Ratio Lower Upper
41 100
76 326.9 24.3 36.5#
39 374.7 60.3 90.5#





#22

trans-1,2-Dichloroethene

Concen: 0.089 ppbv

RT: 4.99 min Scan# 639

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

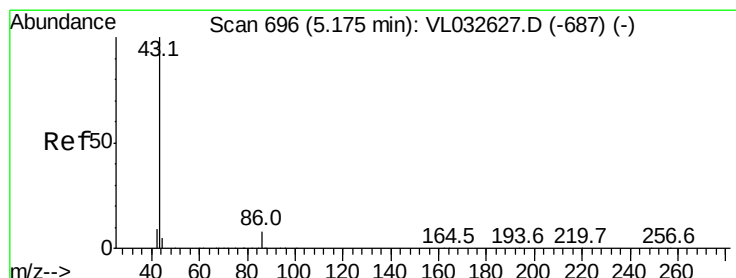
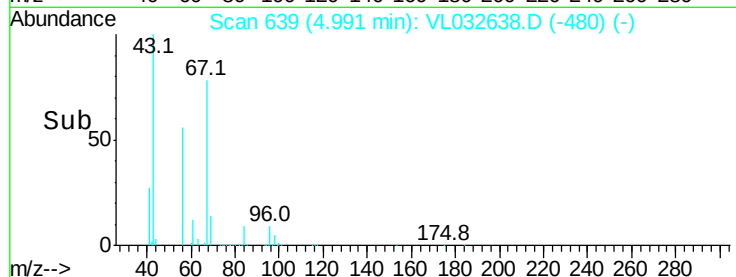
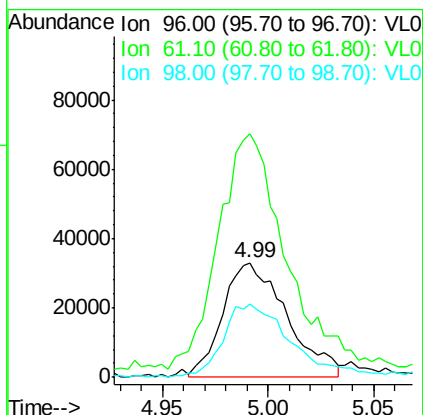
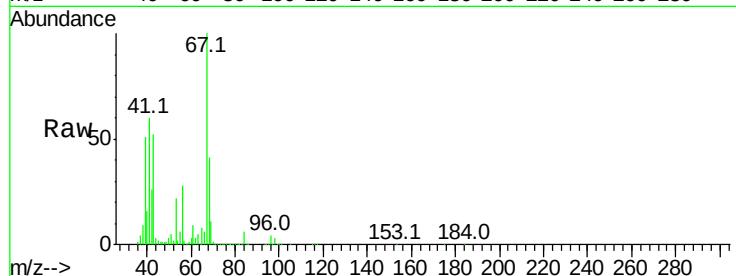
Tgt Ion: 96 Resp: 68635

Ion Ratio Lower Upper

96 100

61 195.0 140.4 210.6

98 62.4 55.0 82.6



#23

Vinyl Acetate

Concen: 1.237 ppbv

RT: 5.31 min Scan# 737

Delta R.T. 0.13 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Tgt Ion: 43 Resp: 2759751

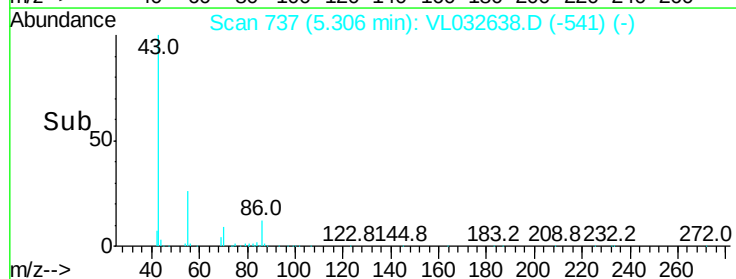
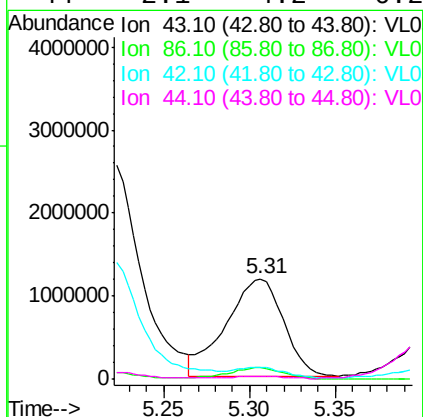
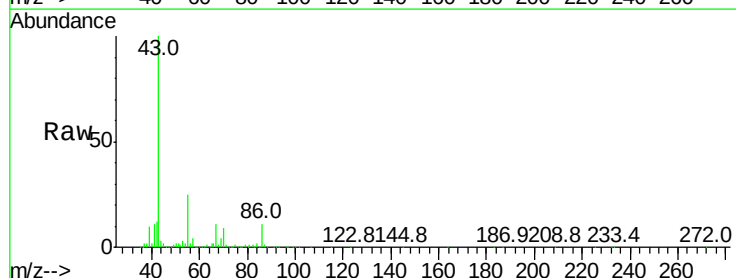
Ion Ratio Lower Upper

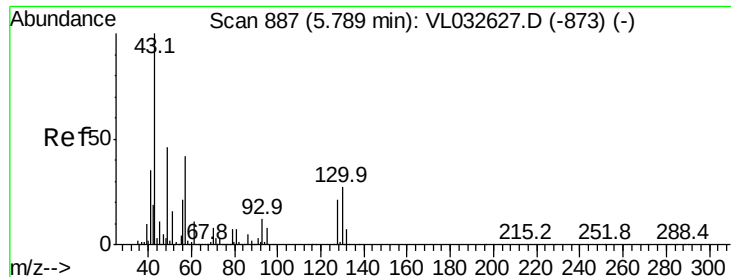
43 100

86 11.5 6.1 9.1#

42 10.6 7.4 11.2

44 2.1 4.2 6.2#

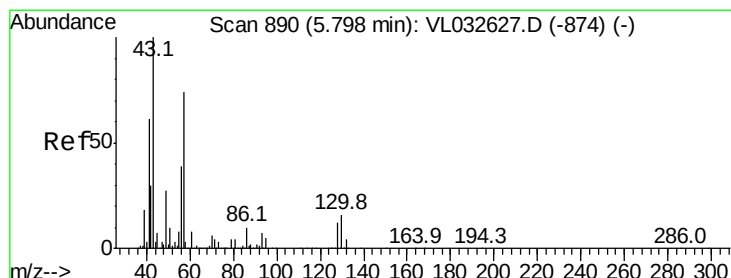
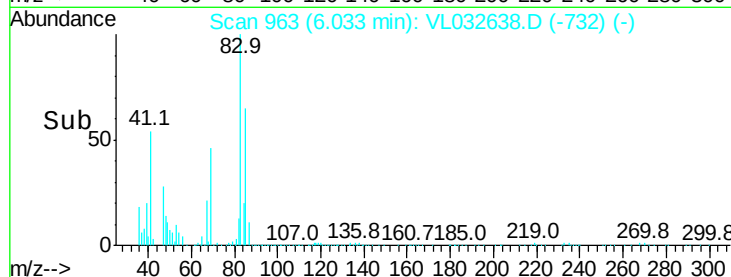
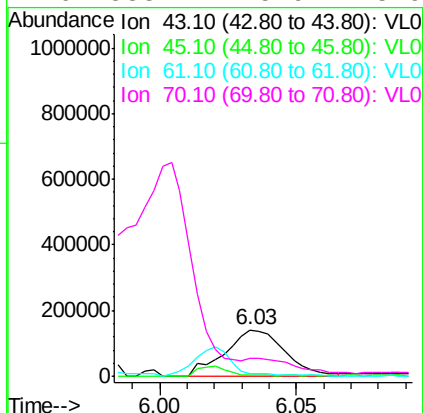
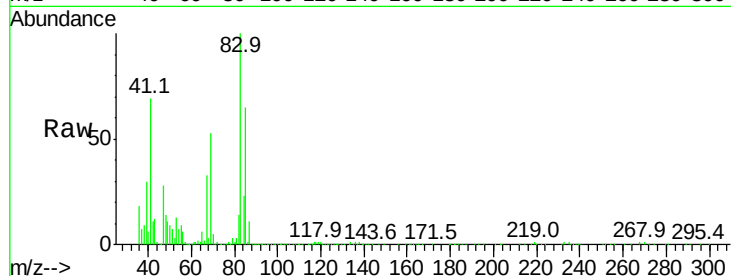




#25
Ethyl Acetate
Concen: 0.065 ppbv
RT: 6.03 min Scan# 963
Delta R.T. 0.24 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

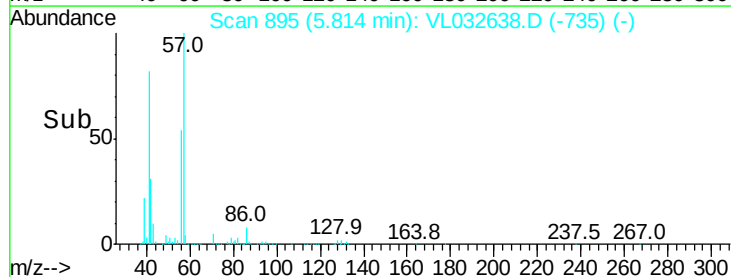
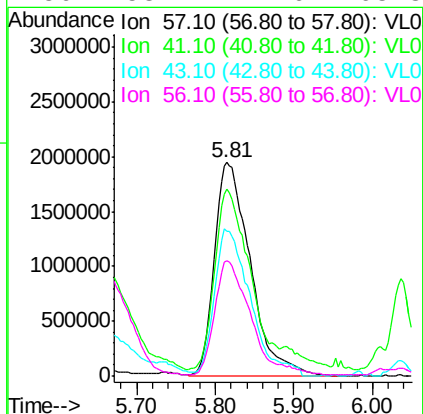
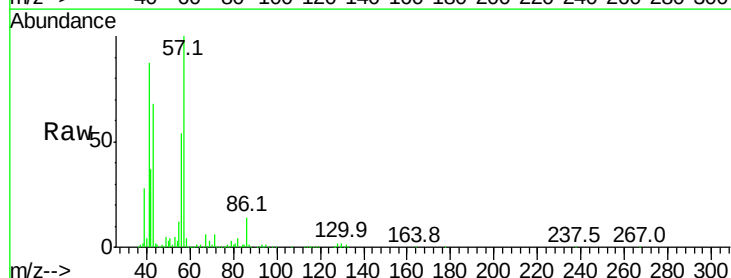
Instrument :
MSVOA_L
ClientSampled :
SS04-MIVI

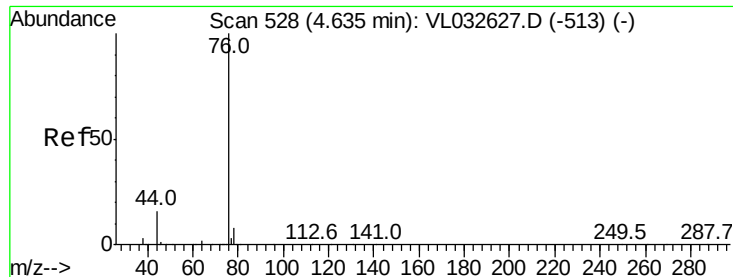
Tgt Ion:	43	Resp:	214943
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	48.2	8.0	12.0#
70	533.4	5.9	8.9#



#26
Hexane
Concen: 4.068 ppbv
RT: 5.81 min Scan# 895
Delta R.T. 0.02 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion:	57	Resp:	6079982
Ion	Ratio	Lower	Upper
57	100		
41	89.9	67.4	101.0
43	69.7	171.9	257.9#
56	53.7	42.6	63.8





#27

Carbon Disulfide

Concen: 0.992 ppbv

RT: 4.64 min Scan# 531

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

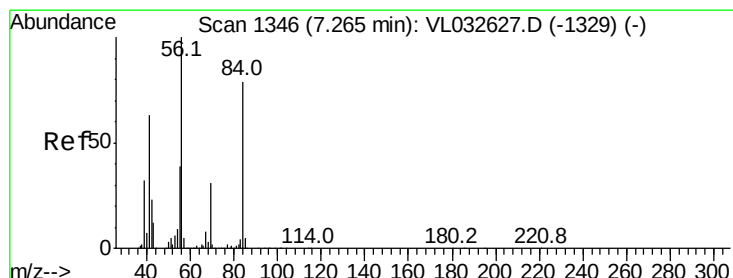
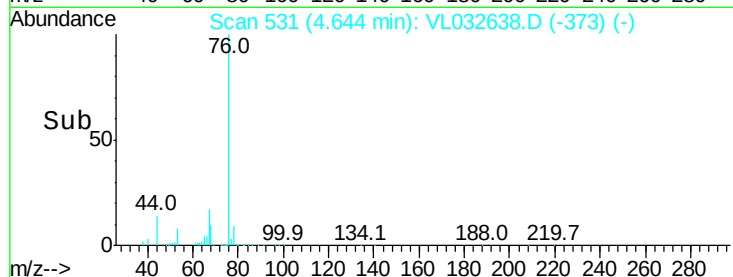
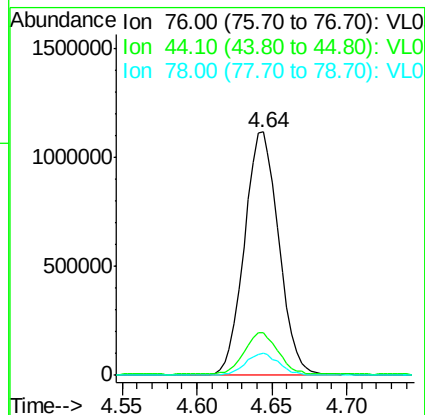
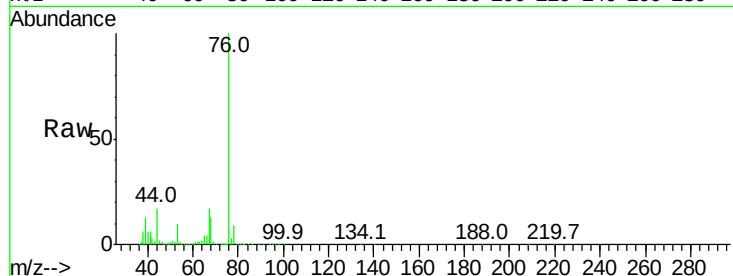
Tgt Ion: 76 Resp: 1791835

Ion Ratio Lower Upper

76 100

44 17.1 13.7 20.5

78 8.9 7.4 11.2



#30

Cyclohexane

Concen: 1.279 ppbv

RT: 7.35 min Scan# 1374

Delta R.T. 0.09 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

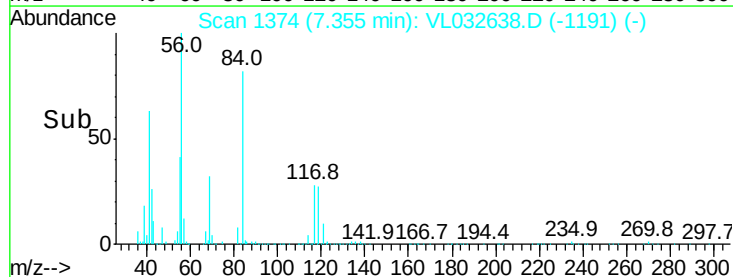
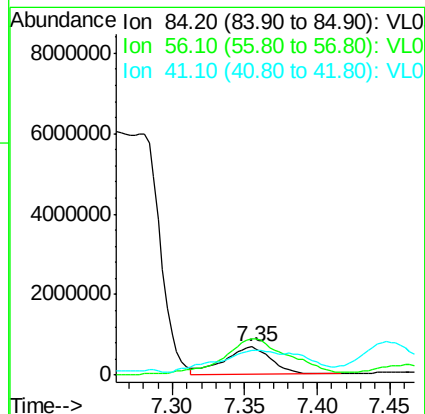
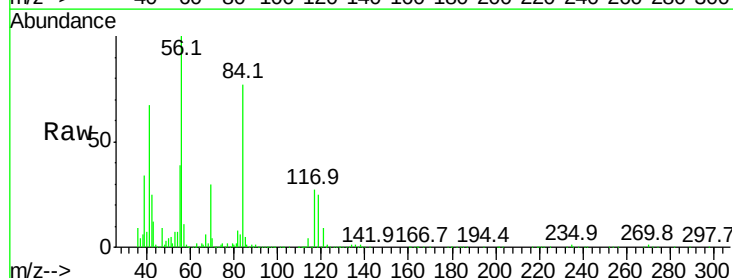
Tgt Ion: 84 Resp: 1507513

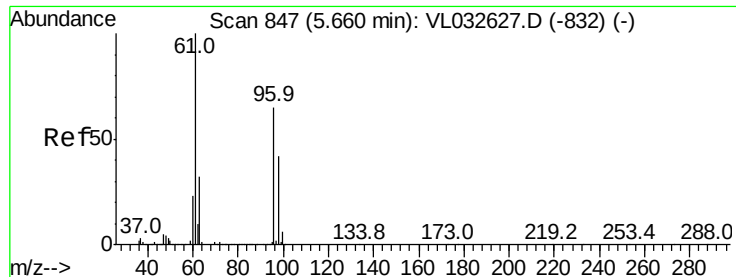
Ion Ratio Lower Upper

84 100

56 185.8 108.3 162.5#

41 155.9 64.8 97.2#



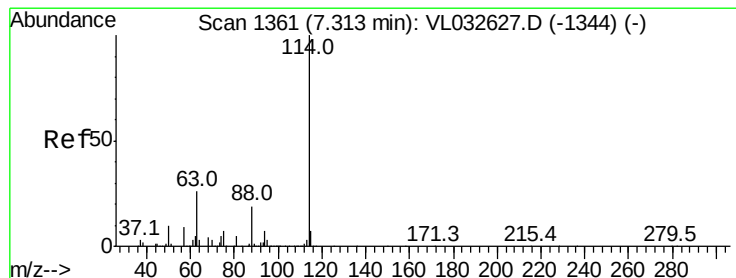
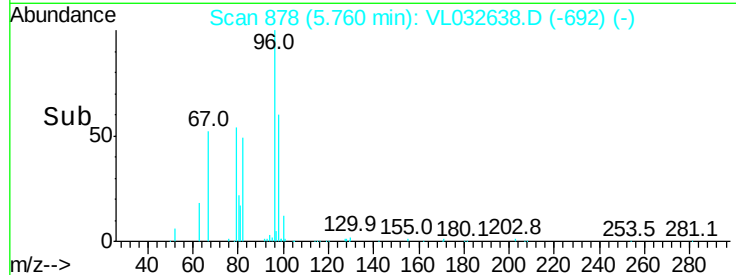
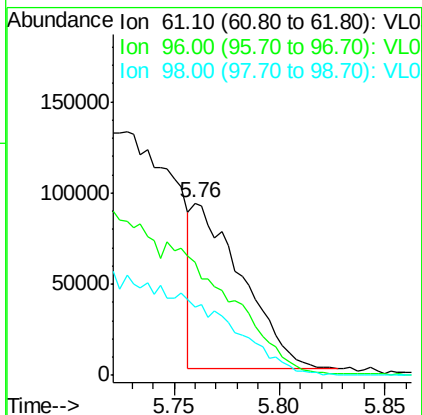
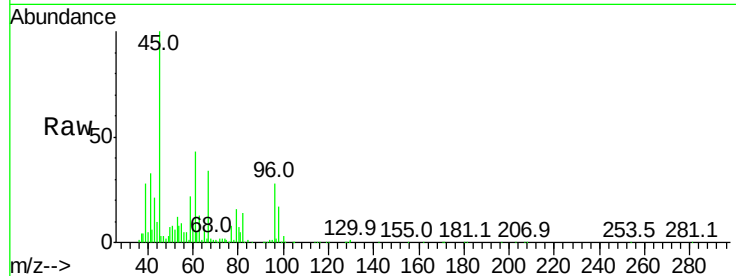


#31

cis-1,2-Dichloroethene
 Concen: 0.103 ppbv
 RT: 5.76 min Scan# 878
 Delta R.T. 0.10 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVI

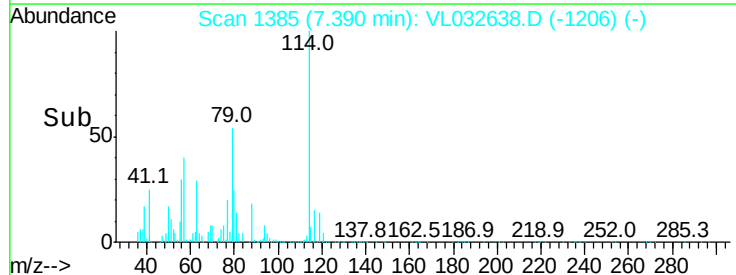
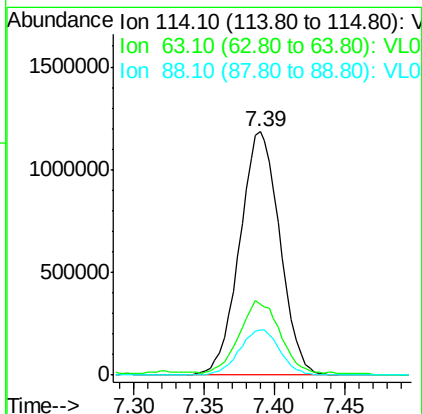
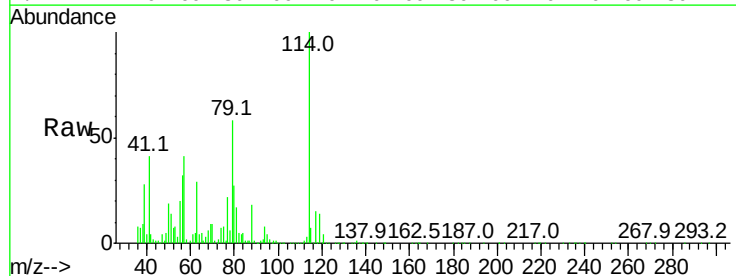
Tgt Ion: 61 Resp: 148414
 Ion Ratio Lower Upper
 61 100
 96 67.7 51.8 77.6
 98 41.0 33.8 50.6

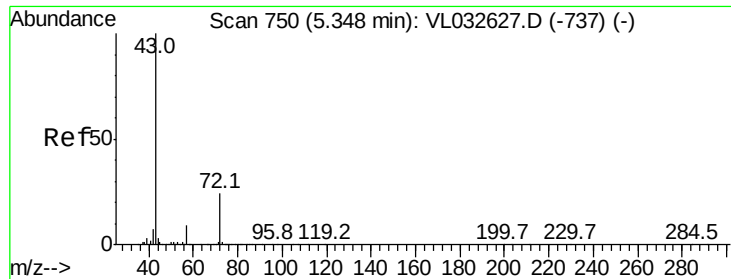


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.39 min Scan# 1385
 Delta R.T. 0.08 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

Tgt Ion: 114 Resp: 2349463
 Ion Ratio Lower Upper
 114 100
 63 32.5 21.7 32.5
 88 19.1 14.9 22.3

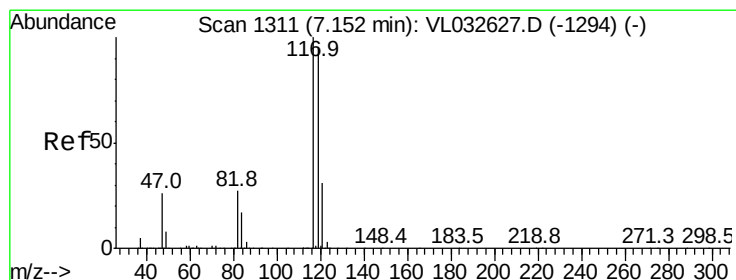
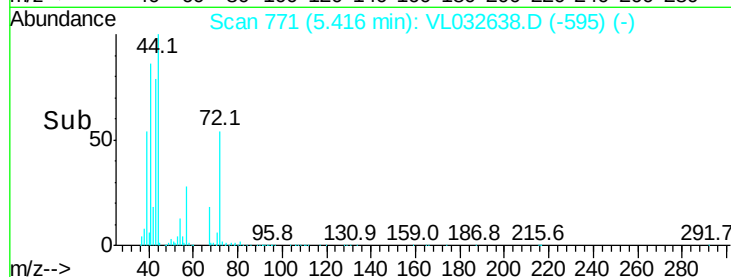
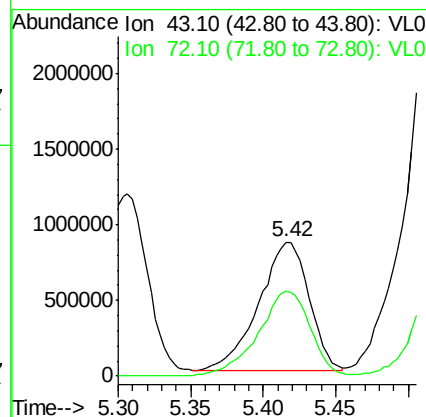
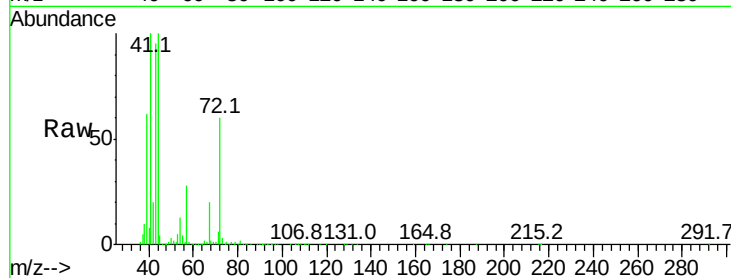




#34
2-Butanone
Concen: 15.695 ppbv
RT: 5.42 min Scan# 771
Delta R.T. 0.07 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

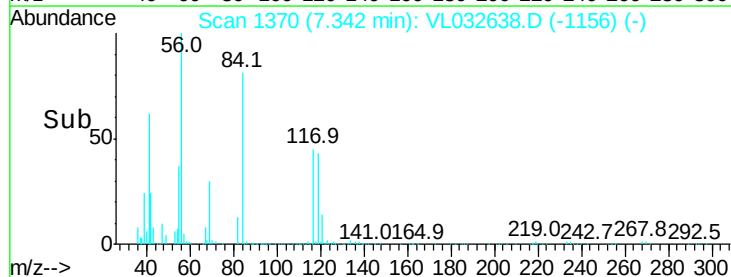
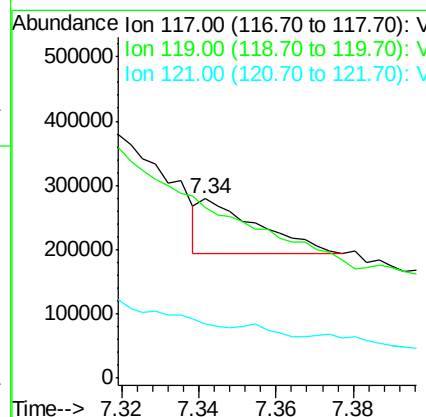
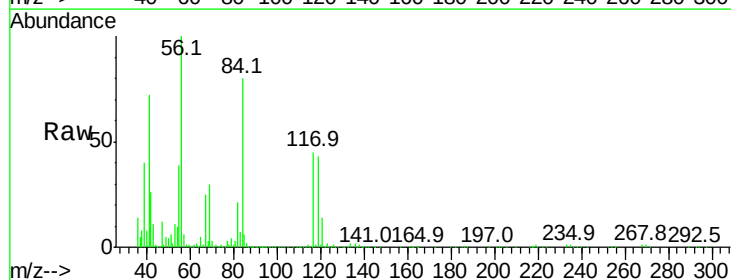
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

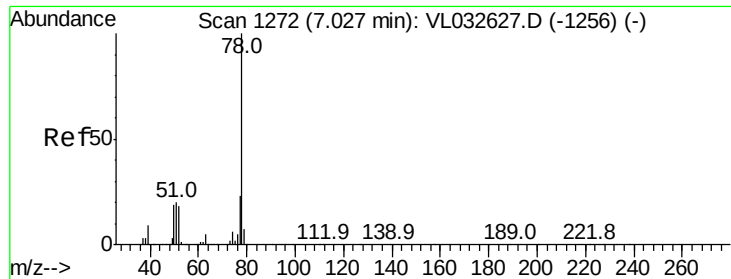
Tgt Ion: 43 Resp: 2046649
Ion Ratio Lower Upper
43 100
72 68.9 18.6 27.8#



#35
Carbon Tetrachloride
Concen: 0.486 ppbv
RT: 7.34 min Scan# 1370
Delta R.T. 0.19 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion: 117 Resp: 88464
Ion Ratio Lower Upper
117 100
119 95.3 75.7 113.5
121 25.1 24.7 37.1





#36

Benzene

Concen: 122.348 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. 0.10 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

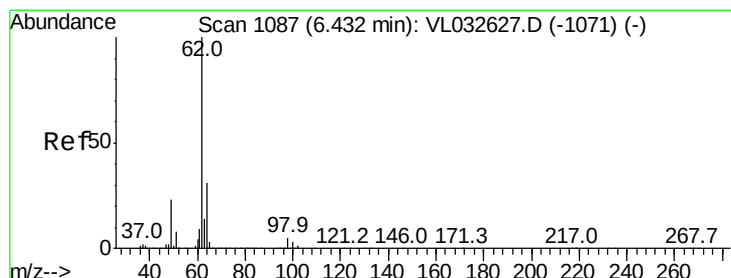
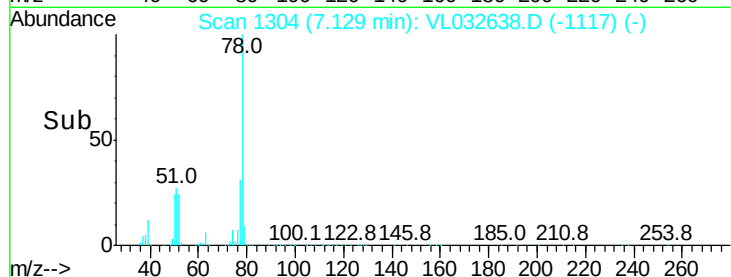
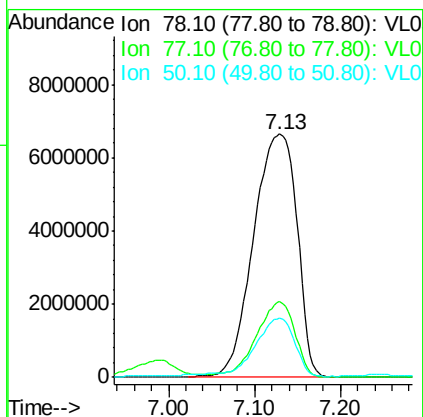
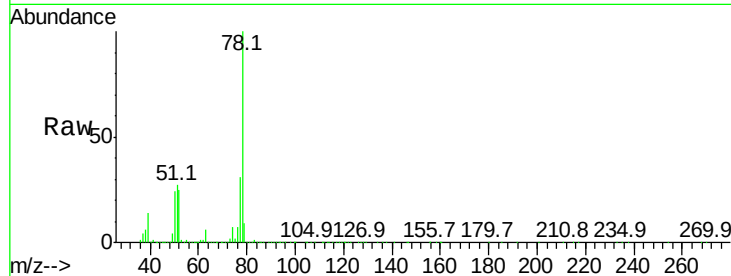
Tgt Ion: 78 Resp:23299915

Ion Ratio Lower Upper

78 100

77 31.0 18.1 27.1#

50 23.8 15.1 22.7#



#37

1,2-Dichloroethane

Concen: 0.046 ppbv

RT: 6.50 min Scan# 1108

Delta R.T. 0.07 min

Lab File: VL032638.D

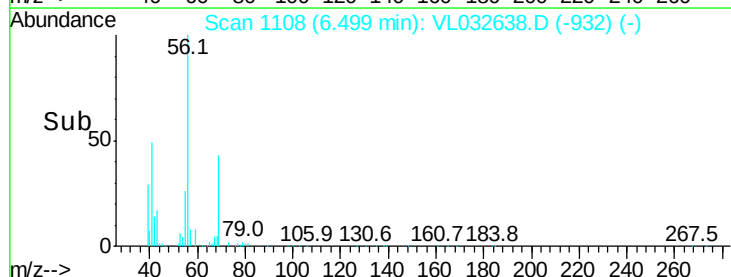
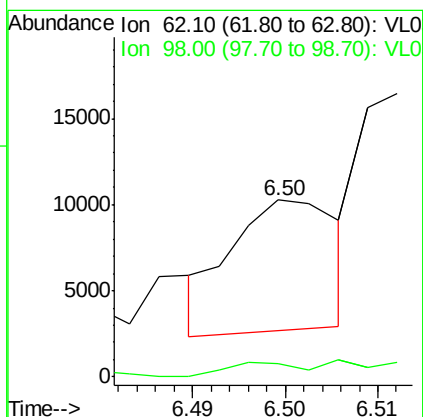
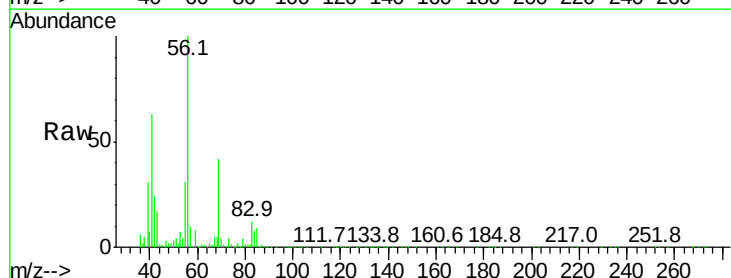
Acq: 17 Oct 2018 13:12

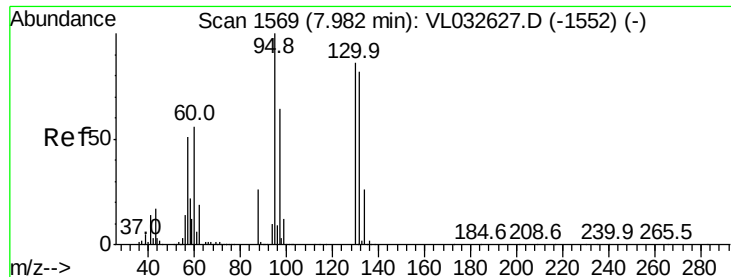
Tgt Ion: 62 Resp: 6073

Ion Ratio Lower Upper

62 100

98 0.0 4.4 6.6#





#38

Trichloroethene

Concen: 82.477 ppbv

RT: 8.05 min Scan# 1590

Delta R.T. 0.07 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

Tgt Ion:130 Resp: 5905626

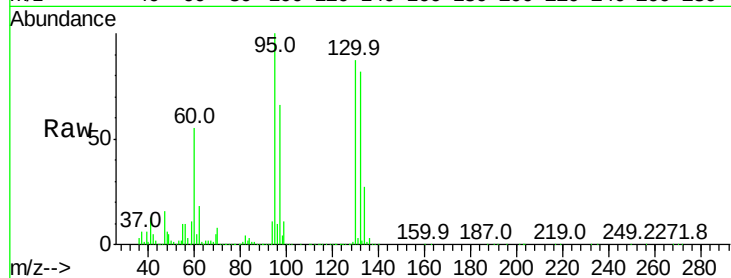
Ion Ratio Lower Upper

130 100

95 114.9 93.4 140.0

132 94.4 76.5 114.7

97 76.2 60.2 90.2

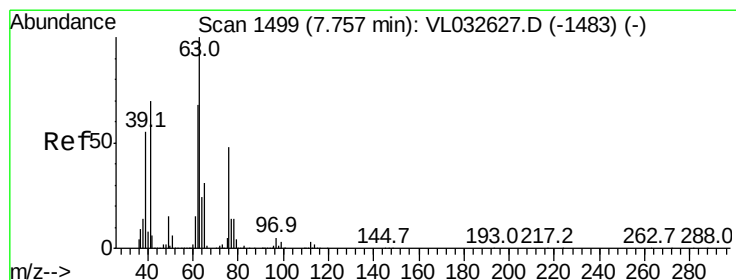
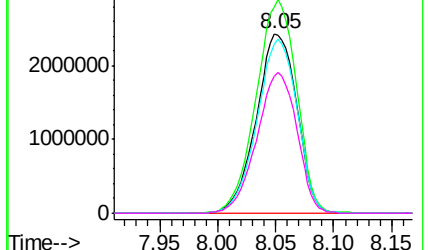
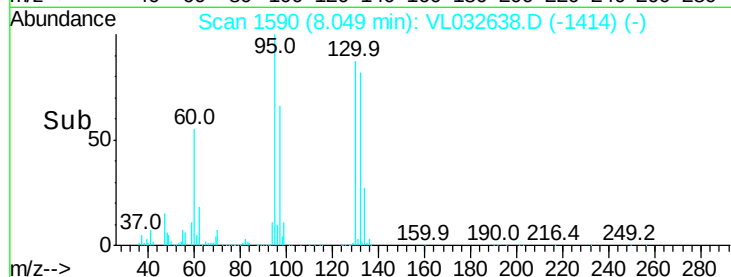


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.447 ppbv

RT: 7.83 min Scan# 1522

Delta R.T. 0.07 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

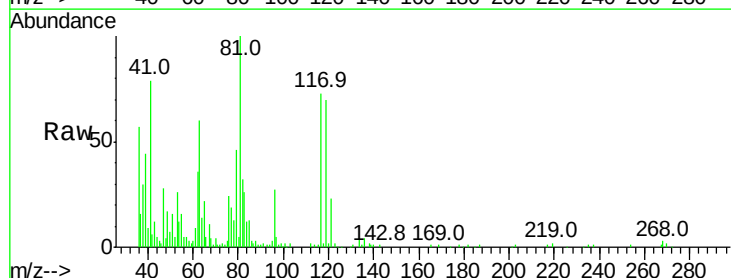
Tgt Ion: 63 Resp: 34594

Ion Ratio Lower Upper

63 100

41 14.6 56.2 84.4#

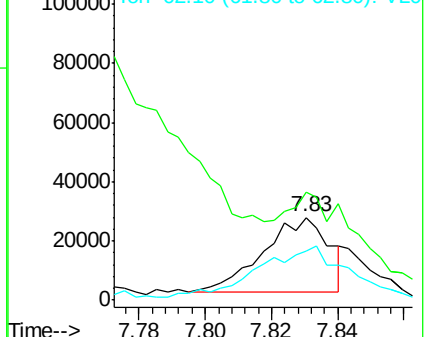
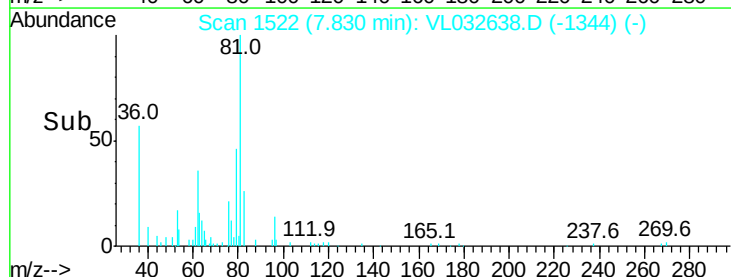
62 56.9 54.4 81.6

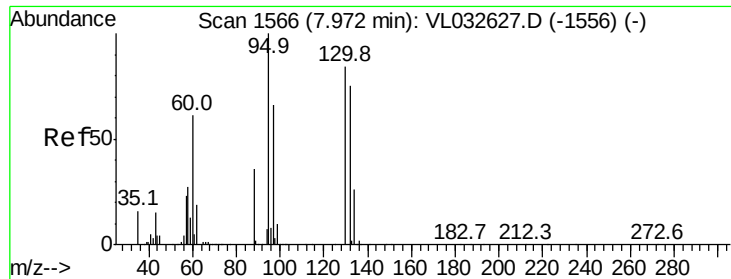


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

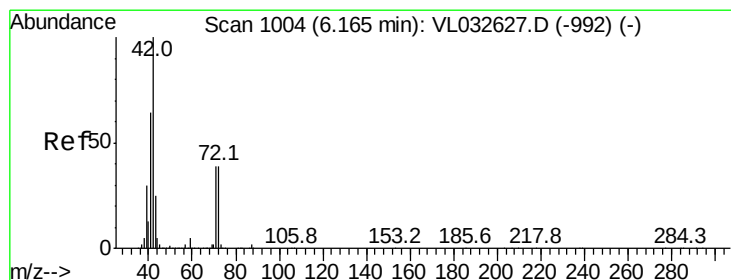
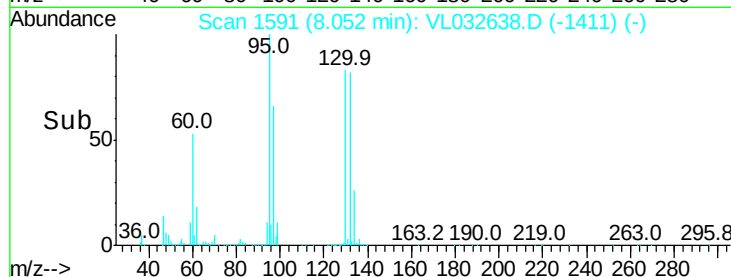
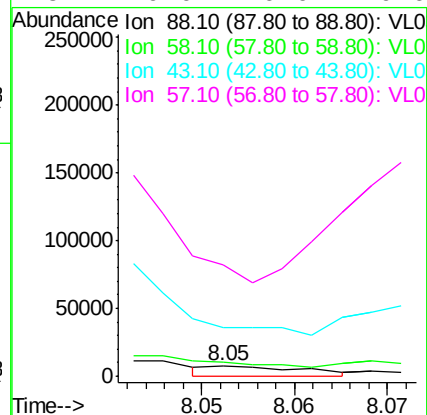
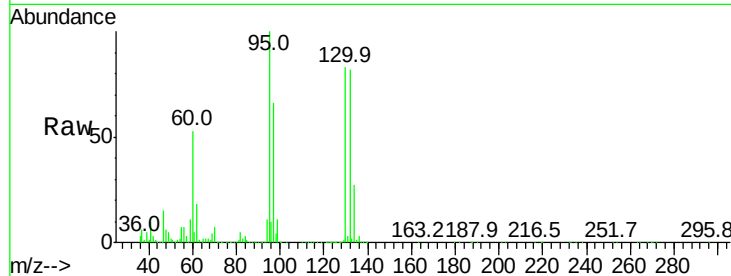




#40
1,4-Dioxane
Concen: 0.200 ppbv
RT: 8.05 min Scan# 1591
Delta R.T. 0.08 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

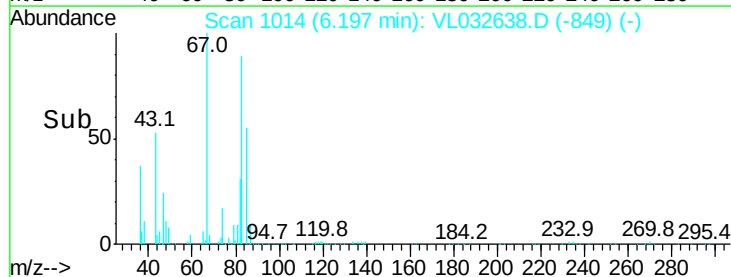
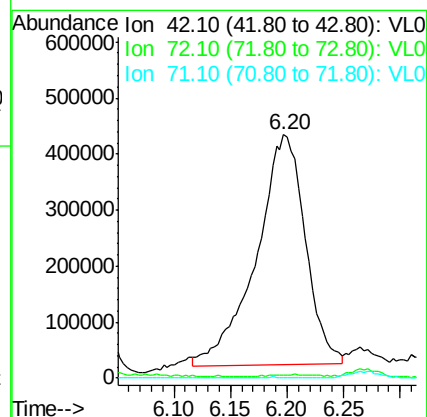
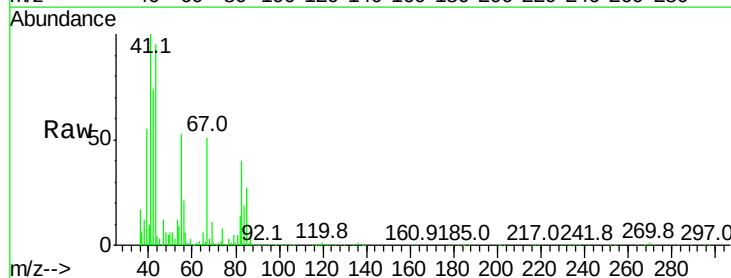
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

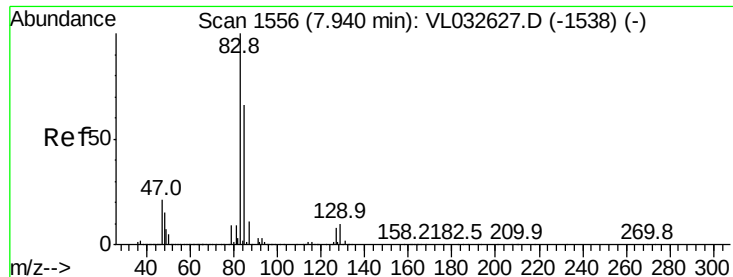
Tgt Ion:	88	Resp:	5351
Ion	Ratio	Lower	Upper
88	100		
58	0.0	104.0	156.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



#41
Tetrahydrofuran
Concen: 17.892 ppbv
RT: 6.20 min Scan# 1014
Delta R.T. 0.03 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion:	42	Resp:	1237822
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.4	48.6#
71	0.0	31.3	46.9#





#42

Bromodichloromethane

Concen: 2.518 ppbv

RT: 8.01 min Scan# 1579

Delta R.T. 0.07 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

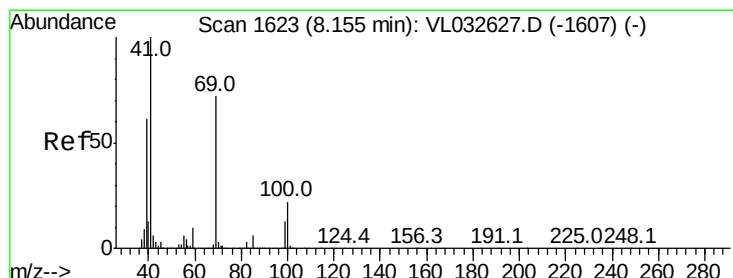
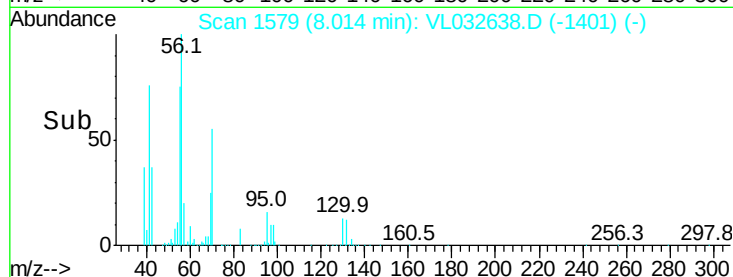
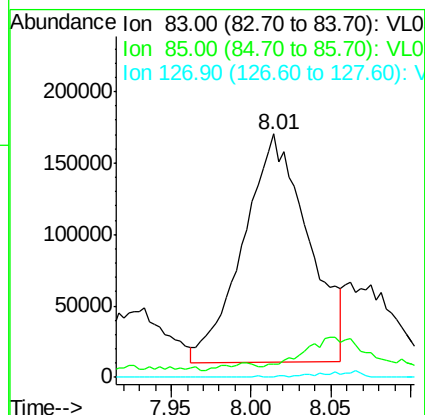
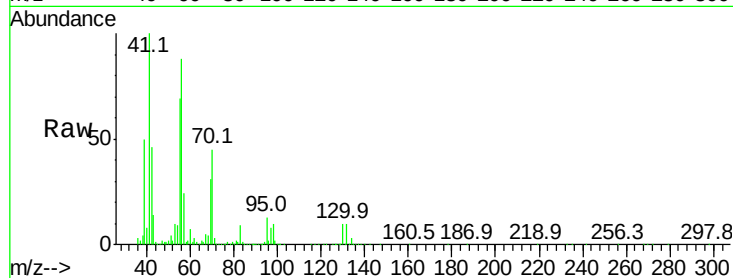
Tgt Ion: 83 Resp: 448294

Ion Ratio Lower Upper

83 100

85 1.7 52.4 78.6#

127 0.4 6.1 9.1#



#43

Methyl Methacrylate

Concen: 4.746 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. 0.11 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

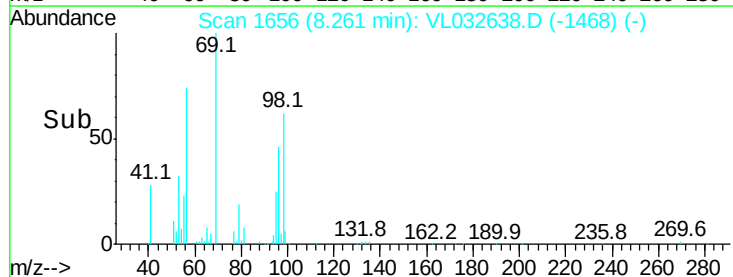
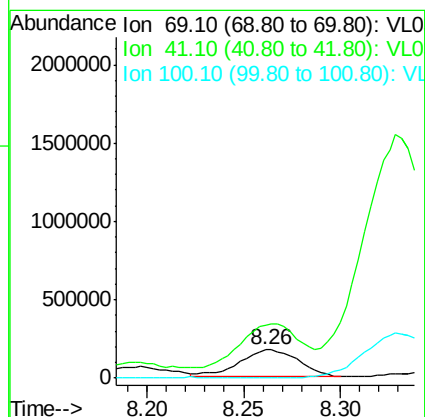
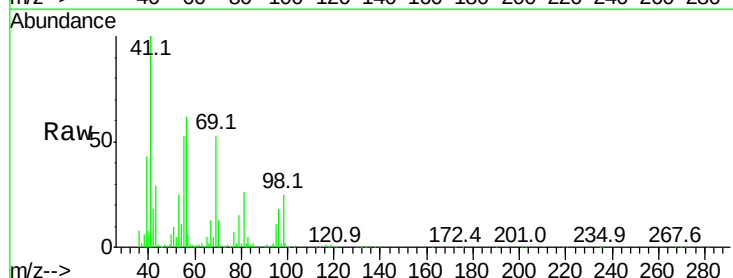
Tgt Ion: 69 Resp: 350440

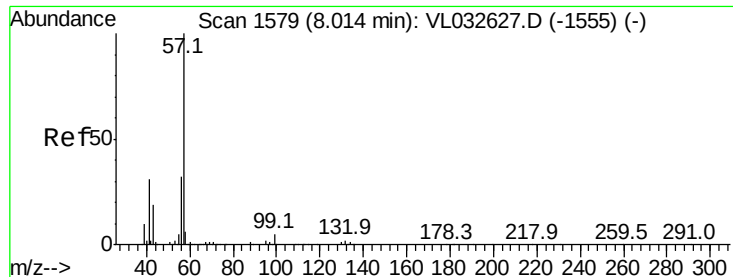
Ion Ratio Lower Upper

69 100

41 216.9 113.2 169.8#

100 0.0 24.4 36.6#





#44

2,2,4-Trimethylpentane

Concen: 1.121 ppbv

RT: 8.08 min Scan# 1601

Delta R.T. 0.07 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

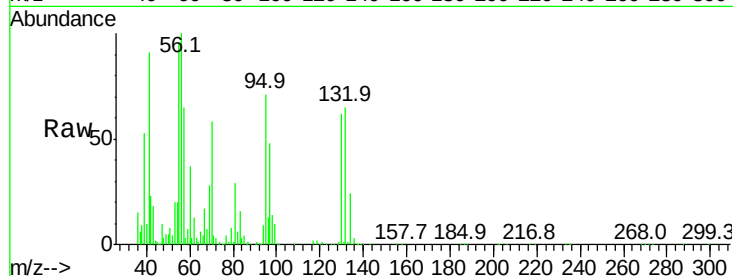
Tgt Ion: 57 Resp: 378444

Ion Ratio Lower Upper

57 100

41 134.0 24.7 37.1#

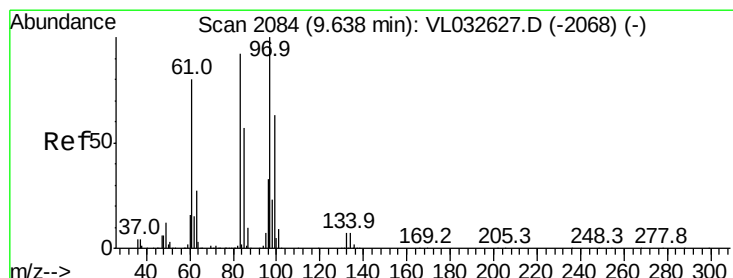
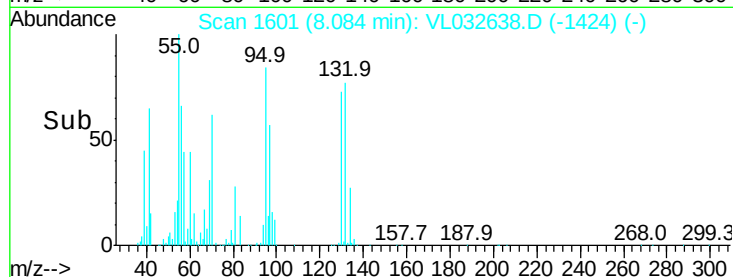
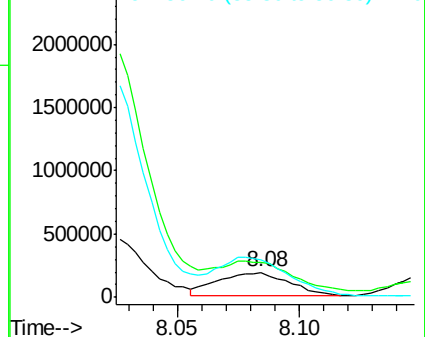
56 176.1 25.0 37.4#



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: 0.786 ppbv

RT: 9.69 min Scan# 2099

Delta R.T. 0.05 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Tgt Ion: 97 Resp: 72742

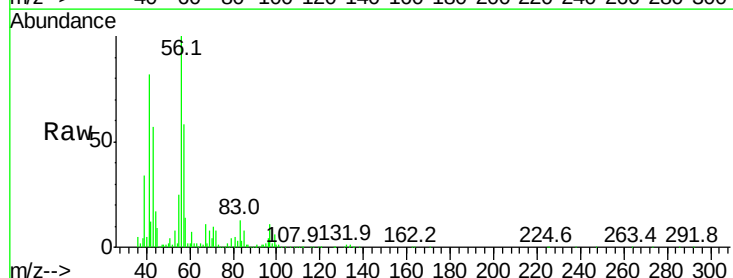
Ion Ratio Lower Upper

97 100

83 93.7 73.5 110.3

85 62.8 45.8 68.6

99 65.2 50.6 75.8

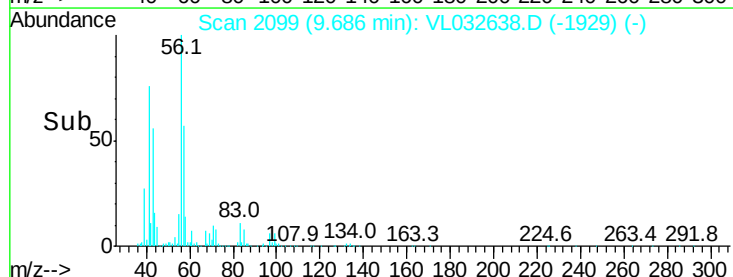
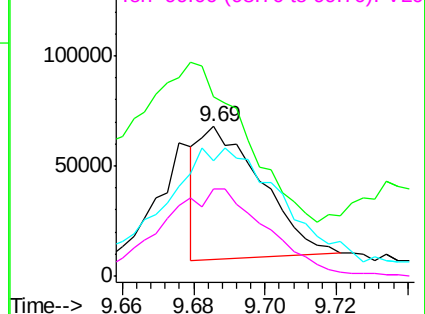


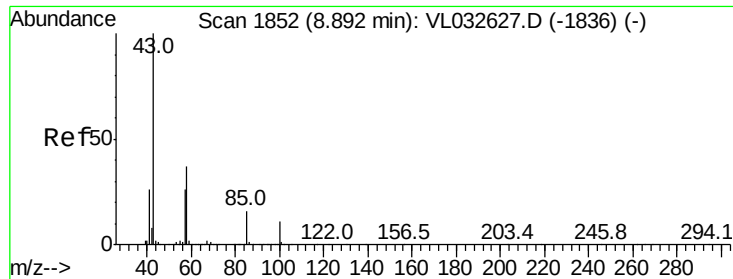
Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.662 ppbv

RT: 9.02 min Scan# 1892

Delta R.T. 0.13 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

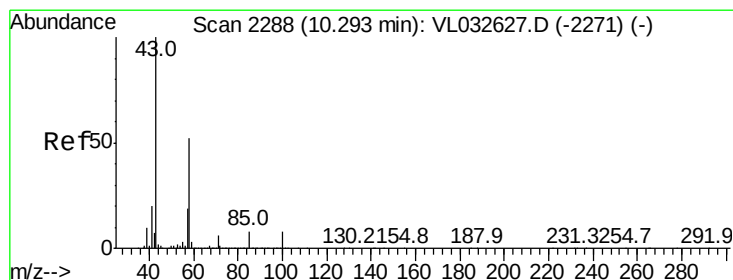
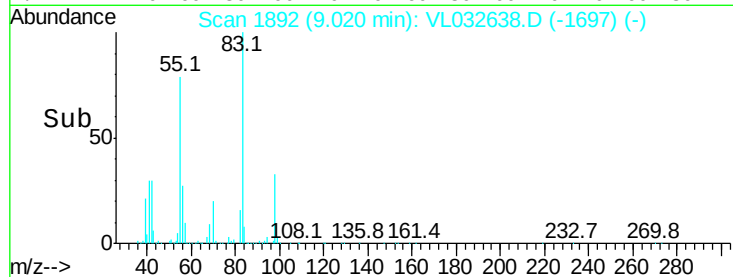
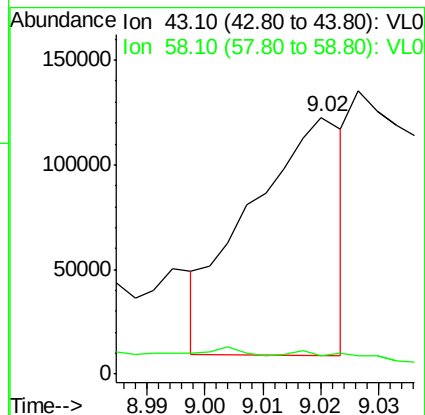
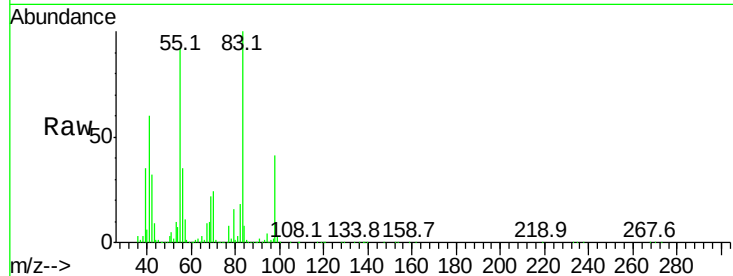
SS04-MIVI

Tgt Ion: 43 Resp: 127153

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



#51

2-Hexanone

Concen: 1.100 ppbv

RT: 10.40 min Scan# 2322

Delta R.T. 0.11 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

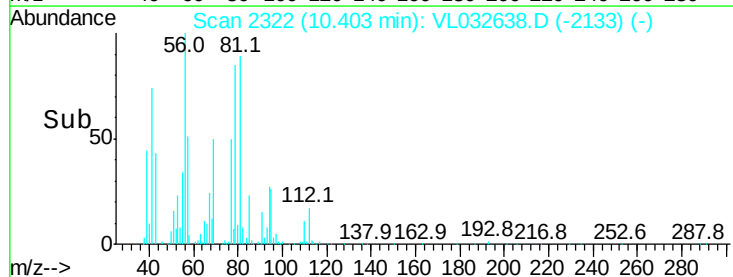
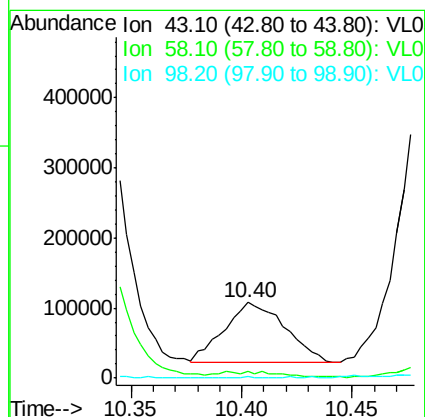
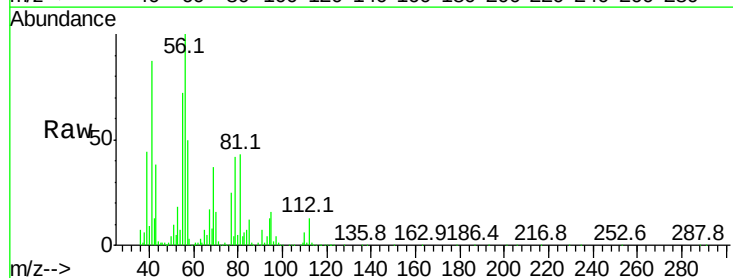
Tgt Ion: 43 Resp: 165974

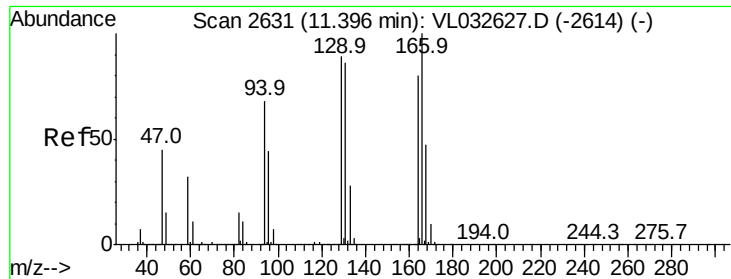
Ion Ratio Lower Upper

43 100

58 0.0 40.4 60.6#

98 0.0 0.4 0.6#





#52

Tetrachloroethene

Concen: 11.784 ppbv

RT: 11.43 min Scan# 2641

Delta R.T. 0.03 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

Tgt Ion:164 Resp: 738787

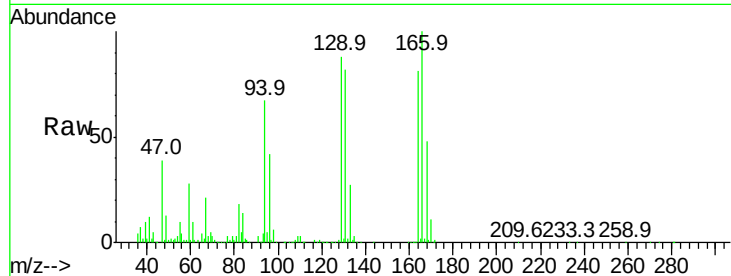
Ion Ratio Lower Upper

164 100

166 122.6 100.5 150.7

129 108.2 90.0 135.0

131 100.8 86.6 129.8



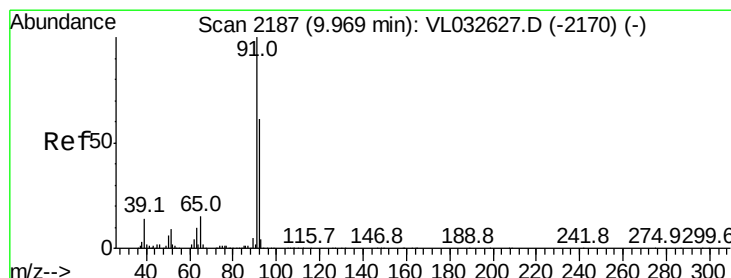
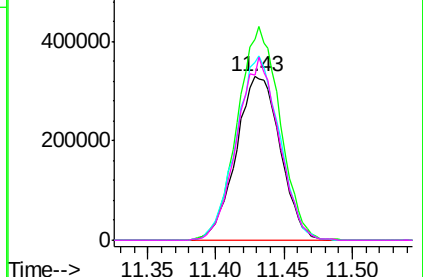
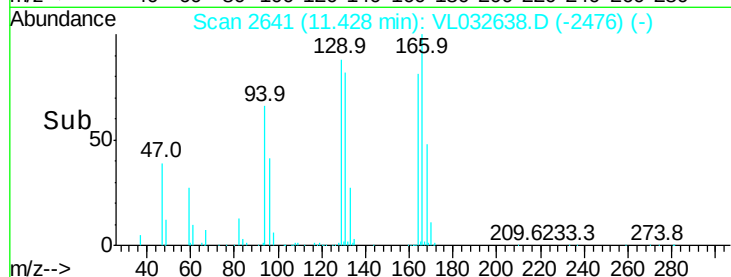
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Time-->



#53

Toluene

Concen: 93.118 ppbv

RT: 10.02 min Scan# 2203

Delta R.T. 0.05 min

Lab File: VL032638.D

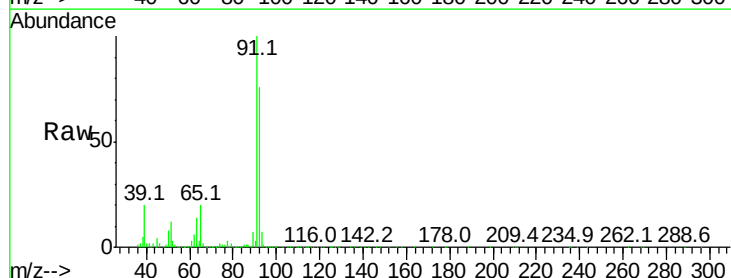
Acq: 17 Oct 2018 13:12

Tgt Ion: 91 Resp:20216895

Ion Ratio Lower Upper

91 100

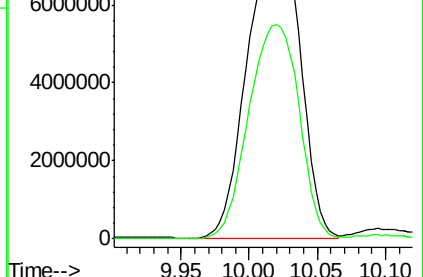
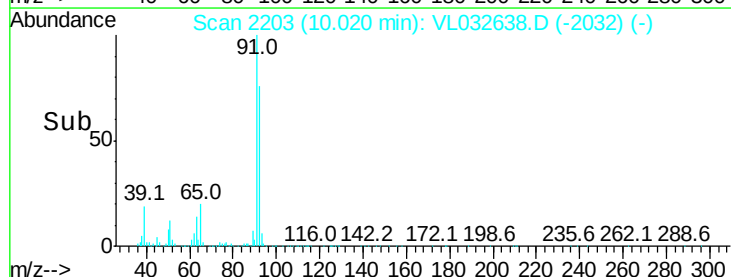
92 69.7 48.4 72.6

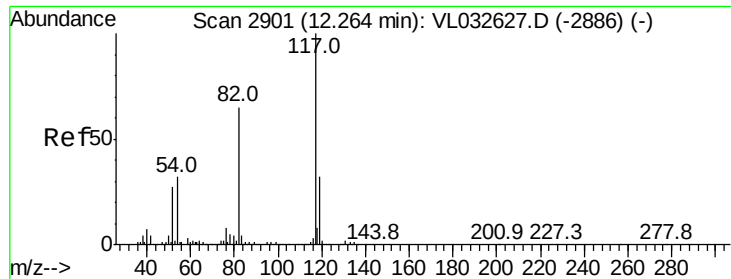


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->

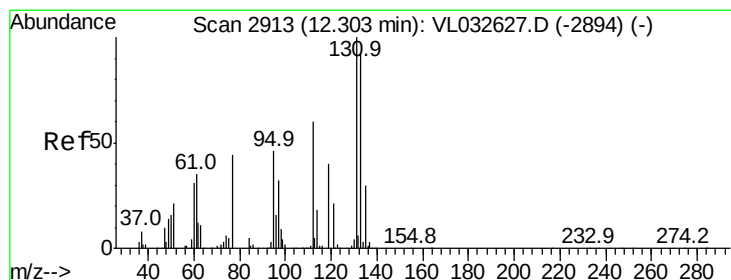
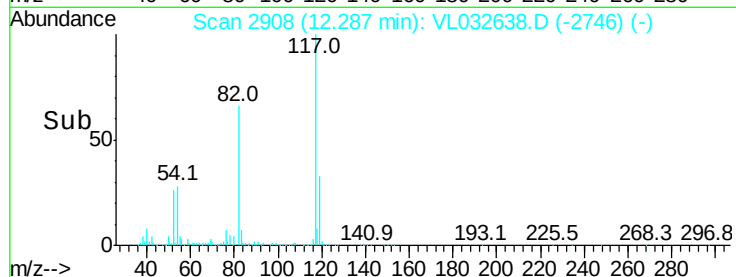
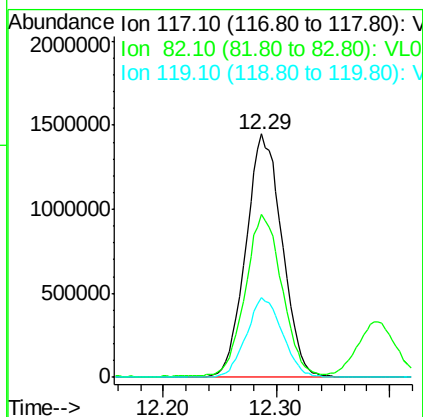
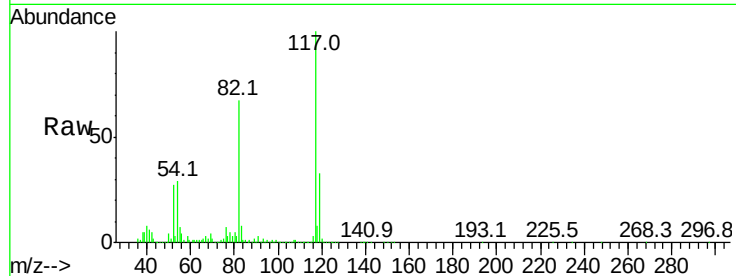




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.02 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

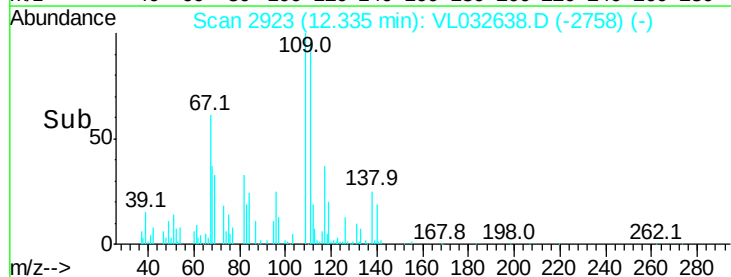
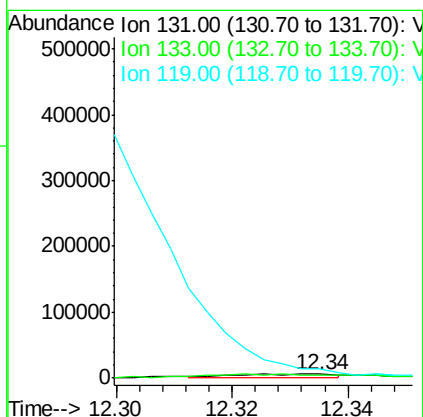
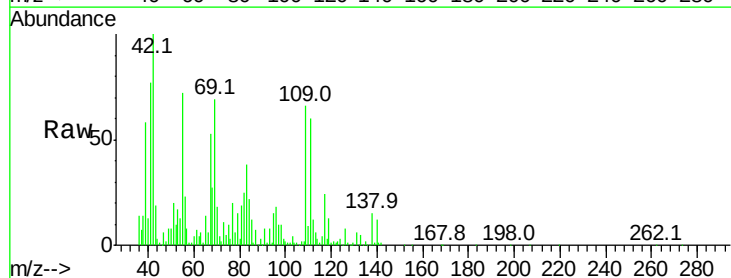
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

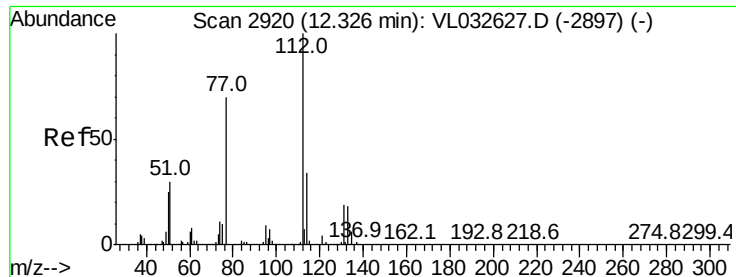
Tgt Ion:117 Resp: 3223896
Ion Ratio Lower Upper
117 100
82 68.3 52.7 79.1
119 32.7 26.7 40.1



#56
1,1,1,2-Tetrachloroethane
Concen: 0.051 ppbv
RT: 12.34 min Scan# 2923
Delta R.T. 0.03 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion:131 Resp: 7574
Ion Ratio Lower Upper
131 100
133 0.0 75.4 113.2#
119 0.0 49.1 73.7#





#57

Chlorobenzene

Concen: 1.248 ppbv

RT: 12.39 min Scan# 2939

Delta R.T. 0.06 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

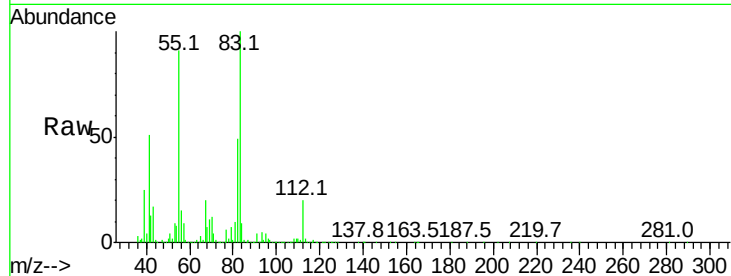
Tgt Ion: 112 Resp: 305903

Ion Ratio Lower Upper

112 100

77 17.9 56.8 85.2#

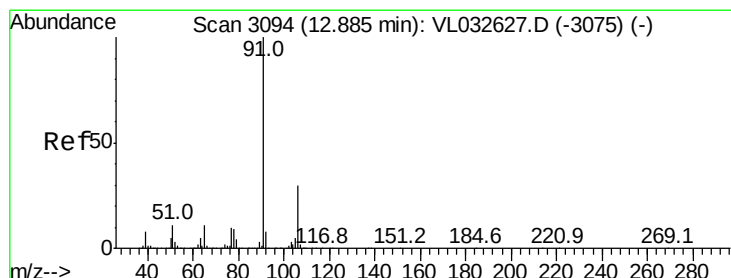
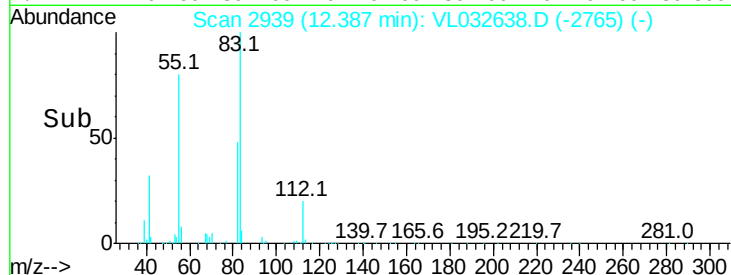
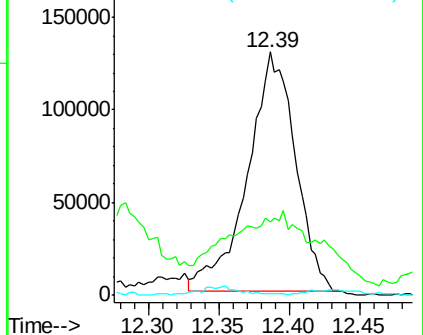
114 0.0 30.3 37.1#



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: 12.964 ppbv

RT: 12.91 min Scan# 3102

Delta R.T. 0.03 min

Lab File: VL032638.D

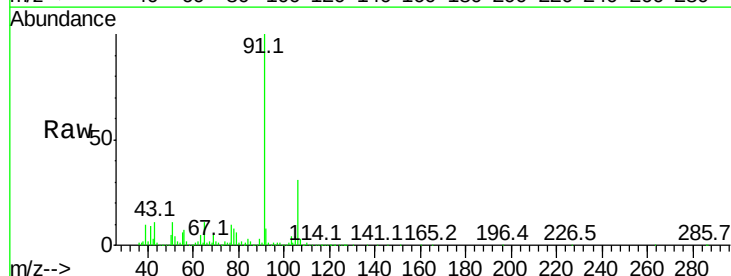
Acq: 17 Oct 2018 13:12

Tgt Ion: 91 Resp: 4693602

Ion Ratio Lower Upper

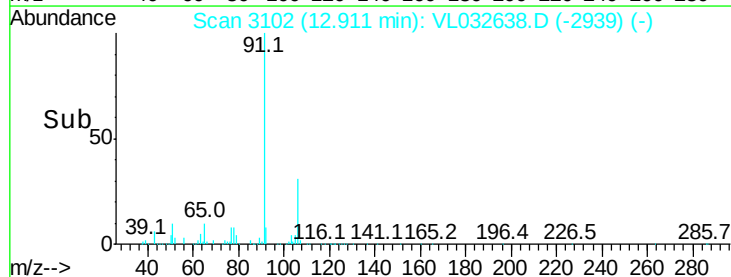
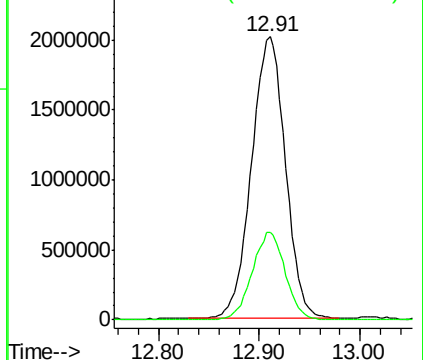
91 100

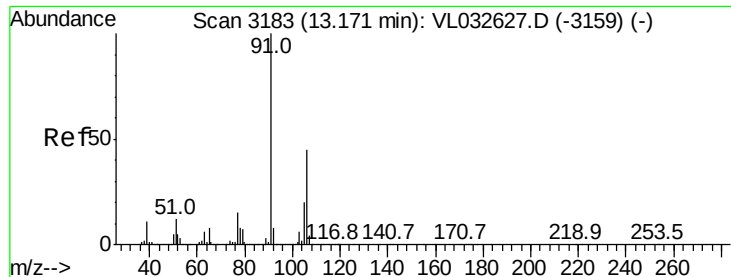
106 30.9 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

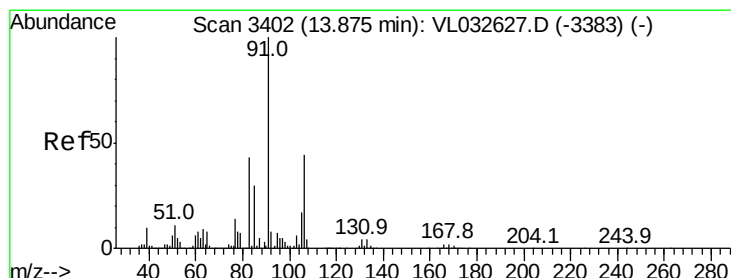
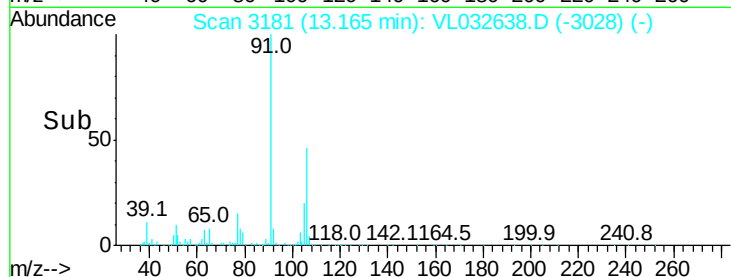
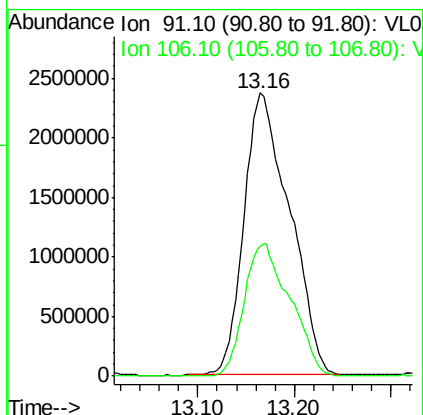
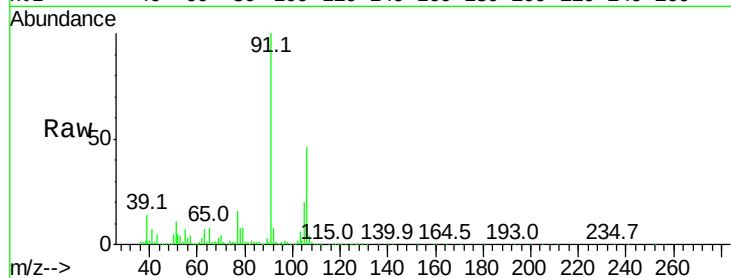




#59
m/p-Xylene
Concen: 24.020 ppbv
RT: 13.16 min Scan# 3181
Delta R.T. -0.01 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

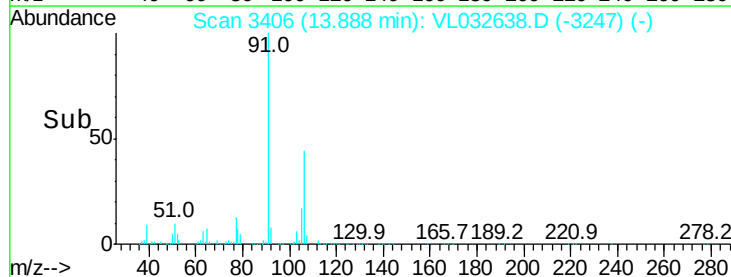
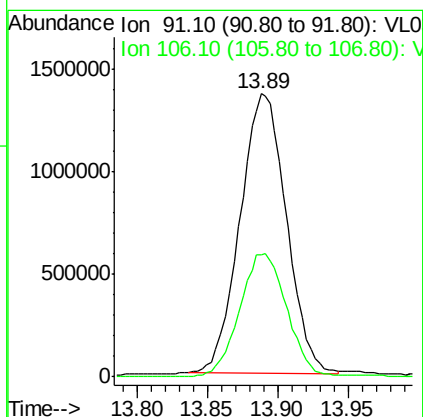
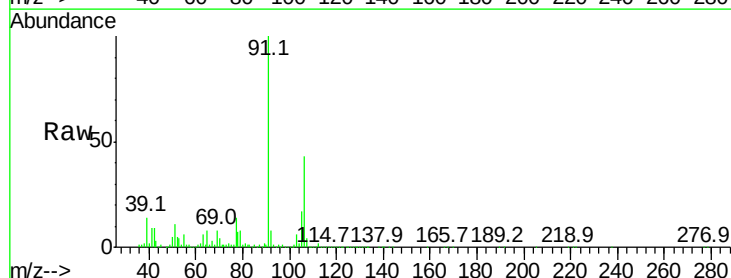
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVI

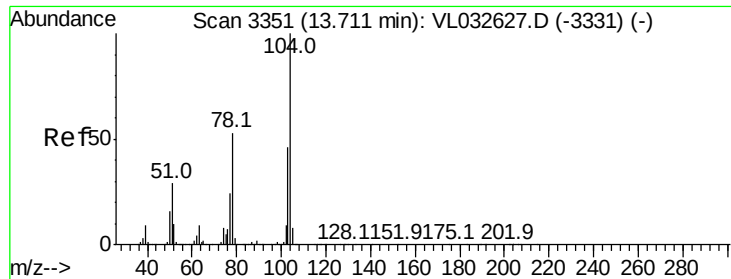
Tgt Ion: 91 Resp: 7763319
Ion Ratio Lower Upper
91 100
106 46.9 35.9 53.9



#60
o-Xylene
Concen: 9.748 ppbv
RT: 13.89 min Scan# 3406
Delta R.T. 0.01 min
Lab File: VL032638.D
Acq: 17 Oct 2018 13:12

Tgt Ion: 91 Resp: 3139303
Ion Ratio Lower Upper
91 100
106 45.3 22.1 66.1

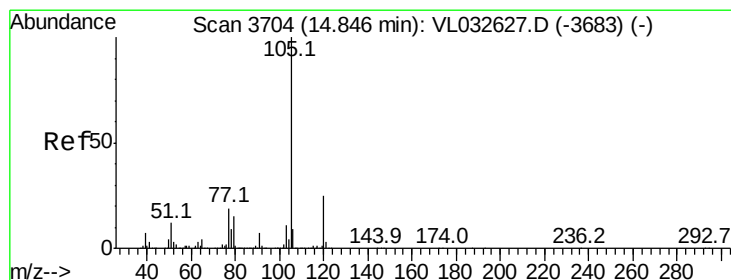
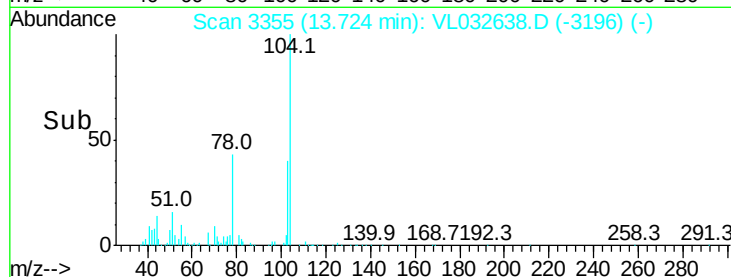
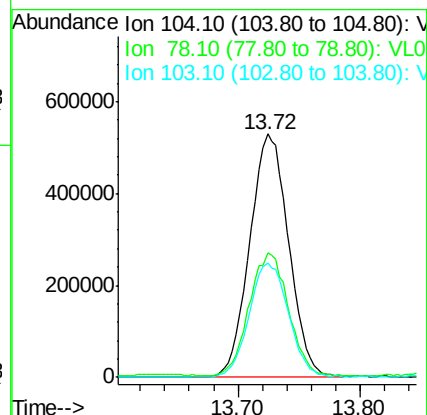
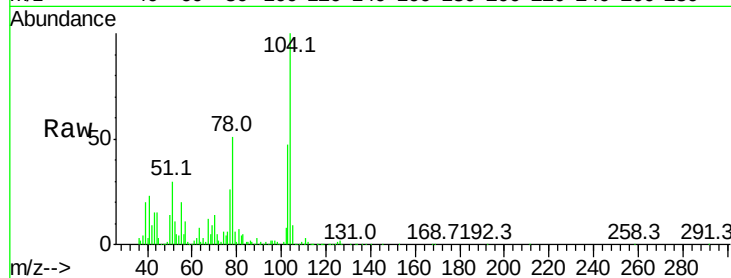




#61
Styrene
 Concen: 5.968 ppbv
 RT: 13.72 min Scan# 3355
 Delta R.T. 0.01 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

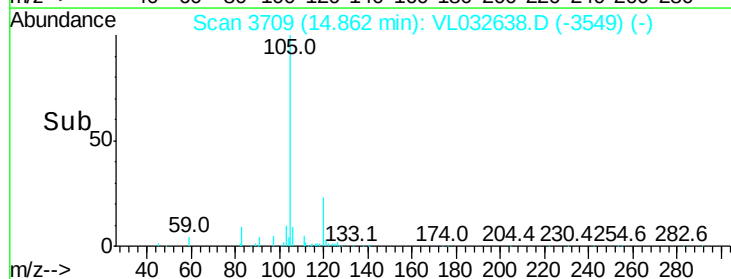
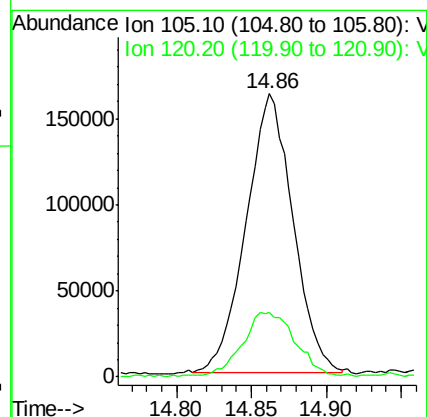
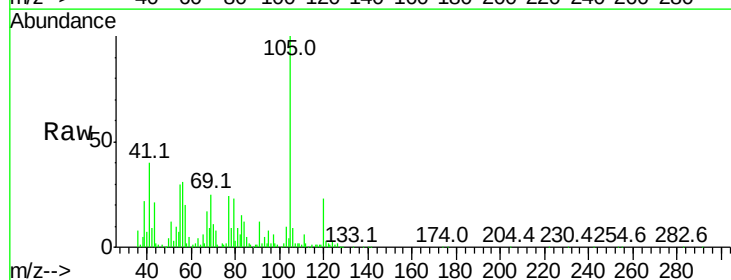
Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVI

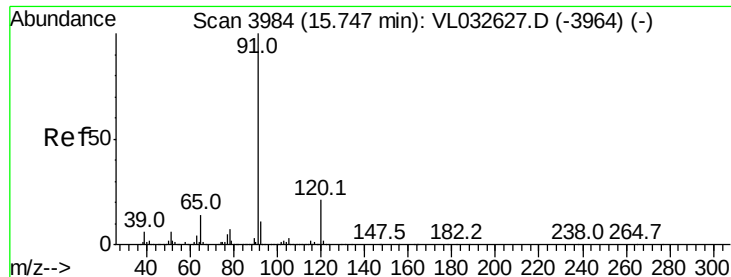
Tgt Ion:104 Resp: 1164739
 Ion Ratio Lower Upper
 104 100
 78 51.4 42.8 64.2
 103 47.1 37.4 56.0



#62
Isopropylbenzene
 Concen: 0.771 ppbv
 RT: 14.86 min Scan# 3709
 Delta R.T. 0.02 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

Tgt Ion:105 Resp: 353940
 Ion Ratio Lower Upper
 105 100
 120 26.8 20.5 30.7





#64

n-propylbenzene

Concen: 1.422 ppbv

RT: 15.76 min Scan# 3987

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

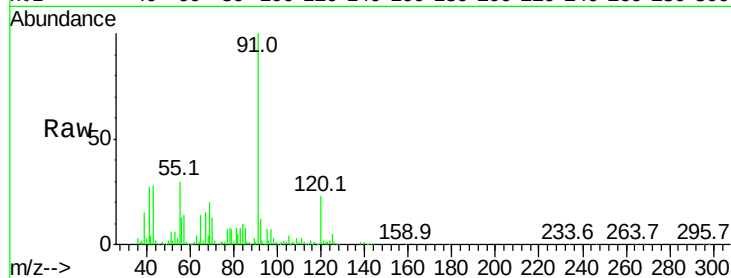
SS04-MIVI

Tgt Ion:120 Resp: 165310

Ion Ratio Lower Upper

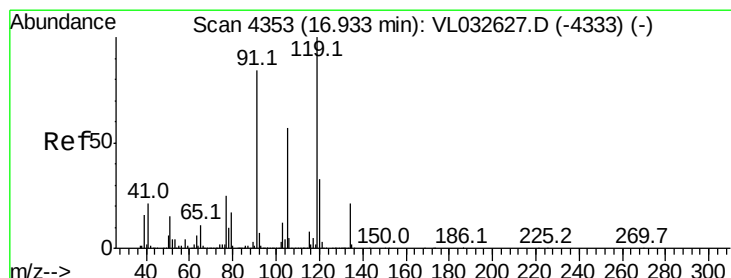
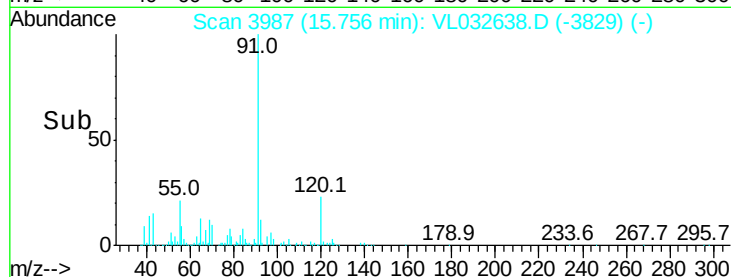
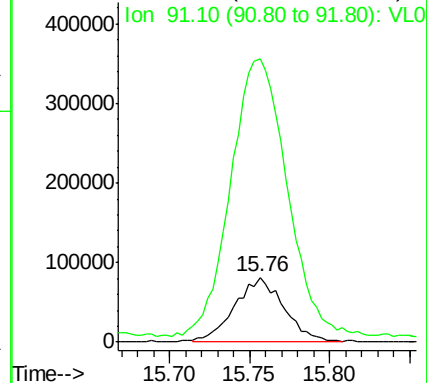
120 100

91 526.2 390.2 585.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.752 ppbv

RT: 16.95 min Scan# 4359

Delta R.T. 0.02 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

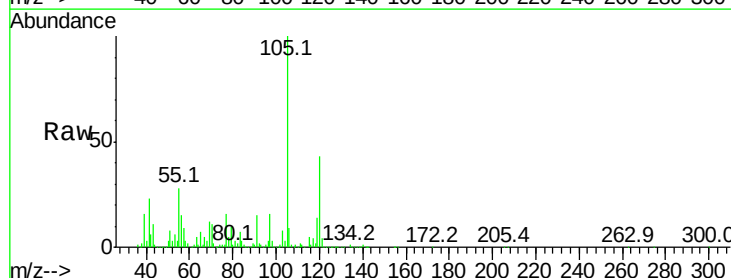
Tgt Ion:119 Resp: 292857

Ion Ratio Lower Upper

119 100

91 118.1 67.8 101.8#

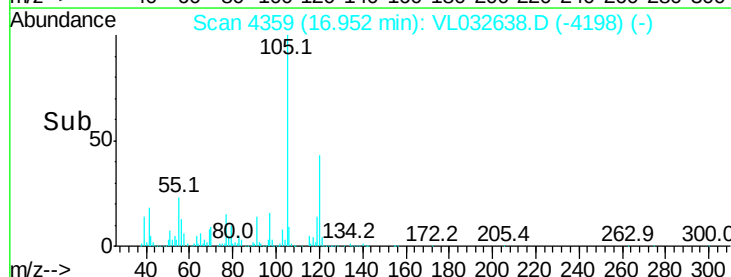
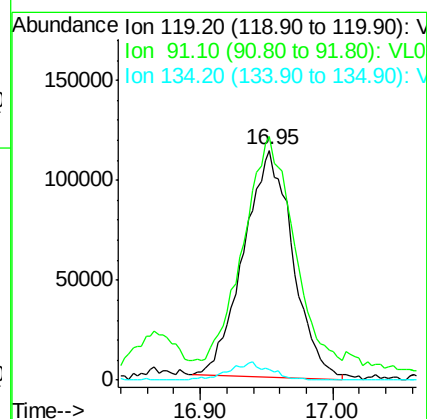
134 6.9 15.8 23.8#

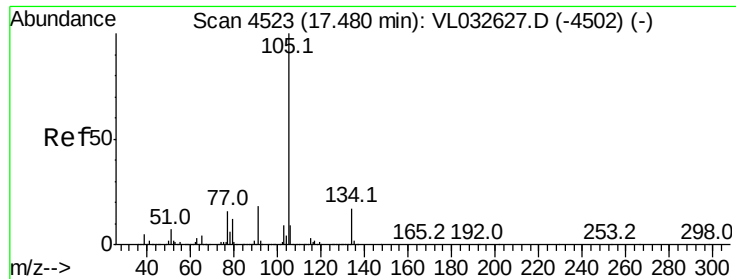


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.386 ppbv

RT: 17.49 min Scan# 4525

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

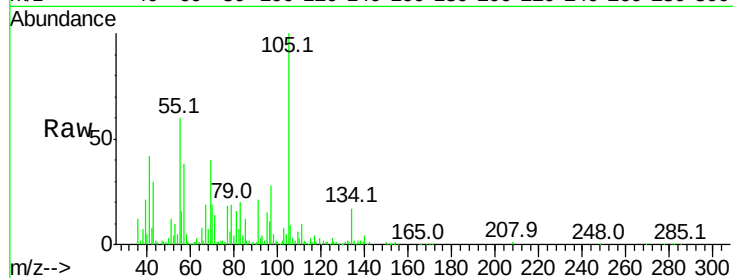
SS04-MIVI

Tgt Ion: 105 Resp: 226367

Ion Ratio Lower Upper

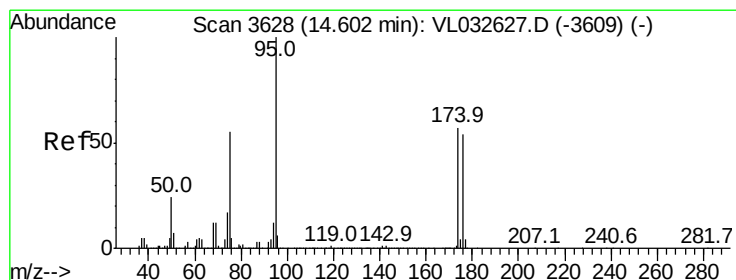
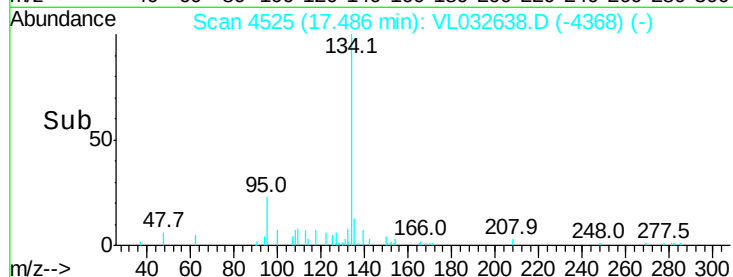
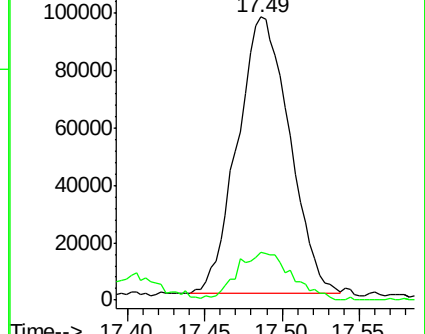
105 100

134 18.4 14.2 21.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.370 ppbv

RT: 14.61 min Scan# 3632

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

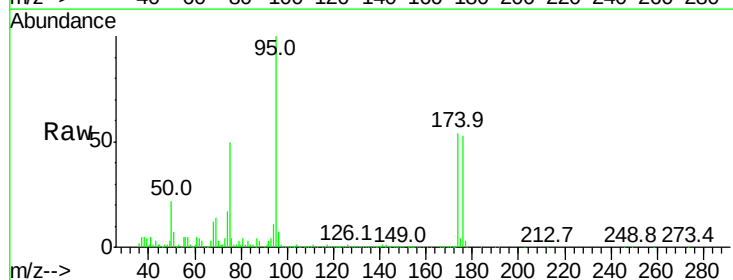
Tgt Ion: 95 Resp: 2517377

Ion Ratio Lower Upper

95 100

174 55.4 46.0 69.0

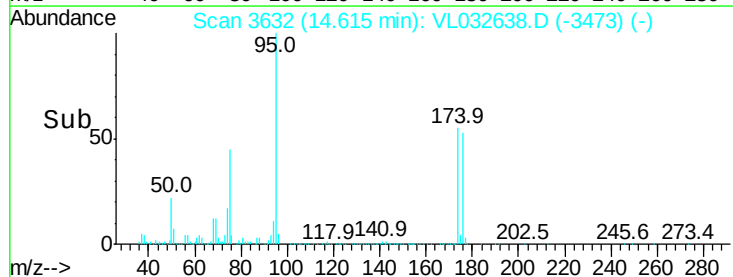
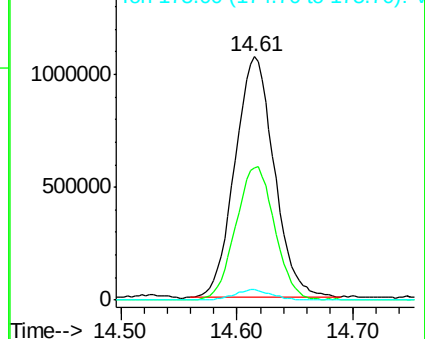
175 4.1 3.4 5.0

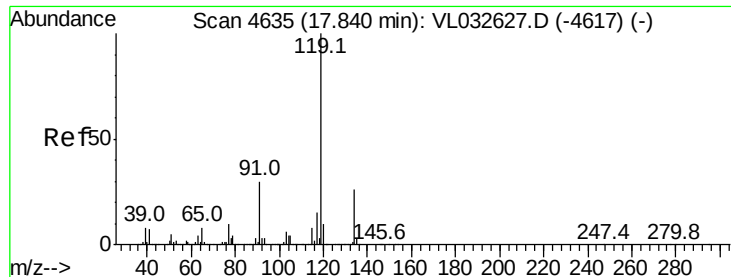


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

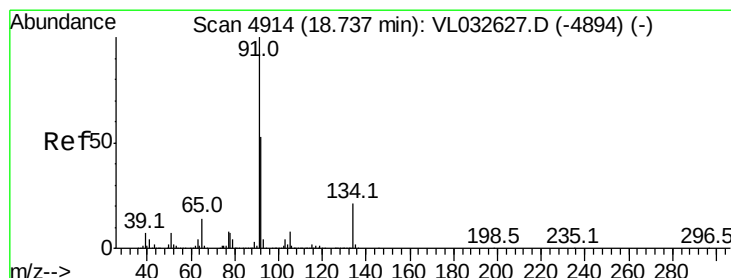
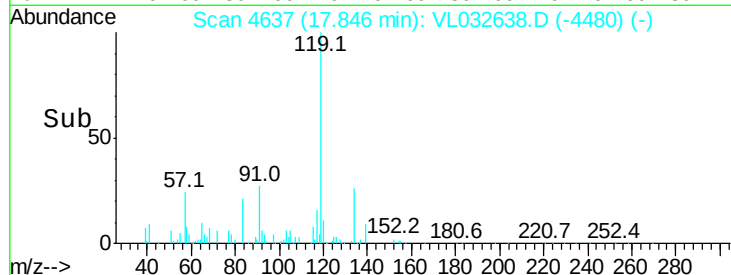
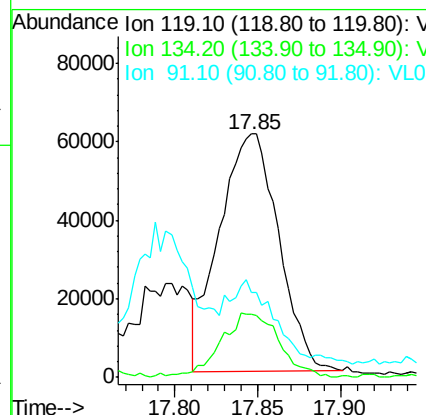
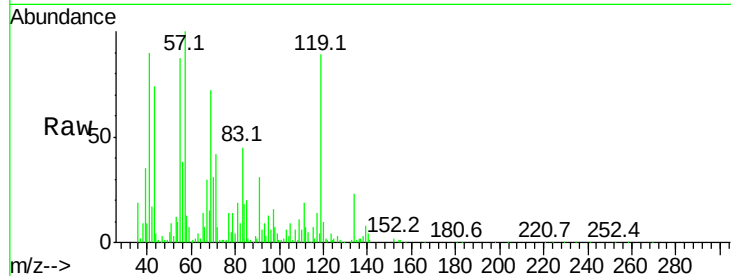




#69
 p-Isopropyltoluene
 Concen: 0.340 ppbv
 RT: 17.85 min Scan# 4637
 Delta R.T. 0.01 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

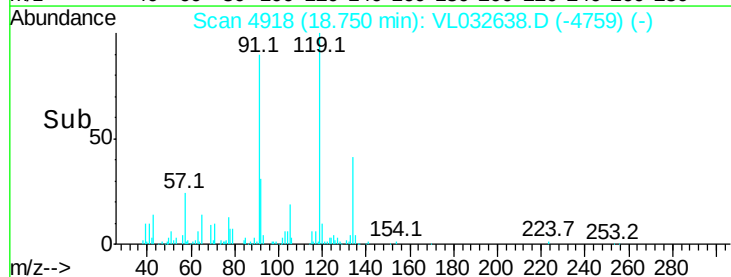
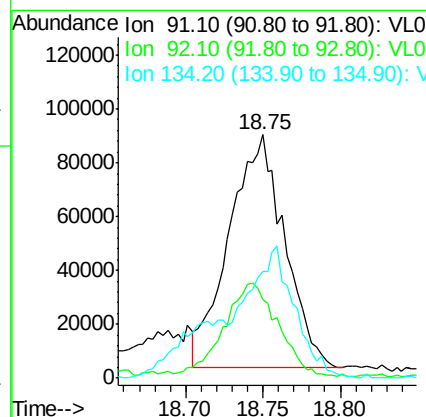
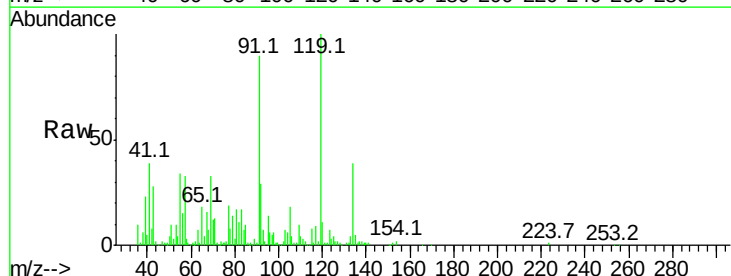
Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVI

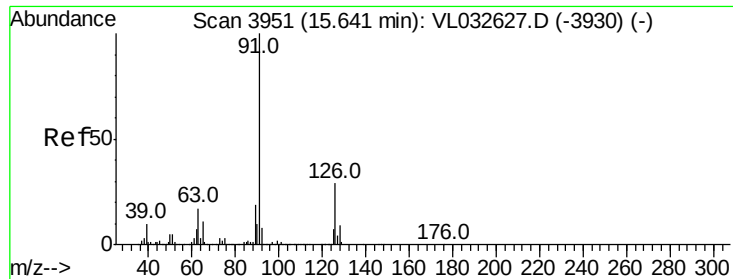
Tgt Ion: 119 Resp: 150983
 Ion Ratio Lower Upper
 119 100
 134 26.9 20.2 30.2
 91 27.2 24.0 36.0



#70
 n-Butylbenzene
 Concen: 0.442 ppbv
 RT: 18.75 min Scan# 4918
 Delta R.T. 0.01 min
 Lab File: VL032638.D
 Acq: 17 Oct 2018 13:12

Tgt Ion: 91 Resp: 216110
 Ion Ratio Lower Upper
 91 100
 92 39.8 43.0 64.4#
 134 70.6 17.0 25.6#





#71

2-Chlorotoluene

Concen: 2.461 ppbv

RT: 15.76 min Scan# 3987

Delta R.T. 0.12 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

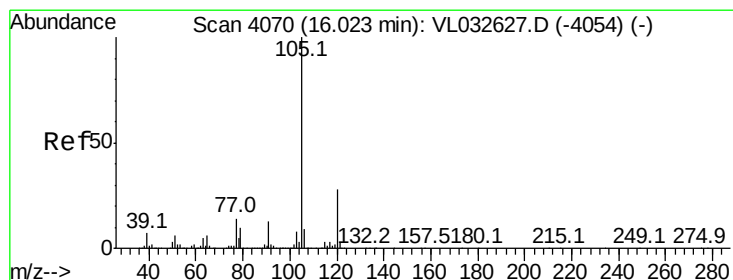
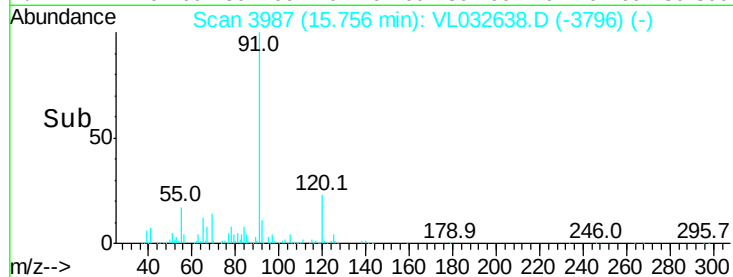
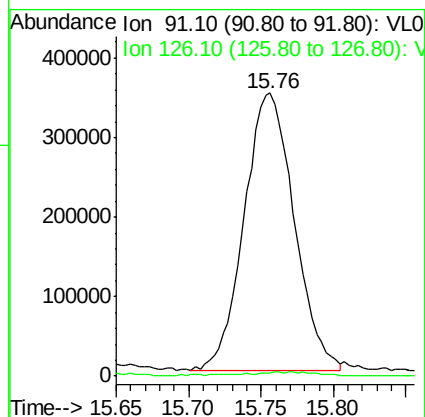
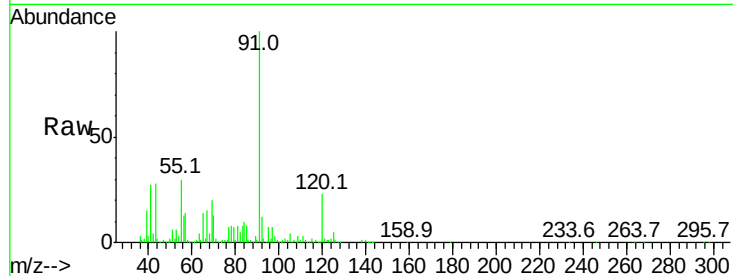
SS04-MIVI

Tgt Ion: 91 Resp: 834817

Ion Ratio Lower Upper

91 100

126 2.5 11.8 47.4#



#72

4-Ethyltoluene

Concen: 2.148 ppbv

RT: 16.04 min Scan# 4074

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Tgt Ion: 105 Resp: 747651

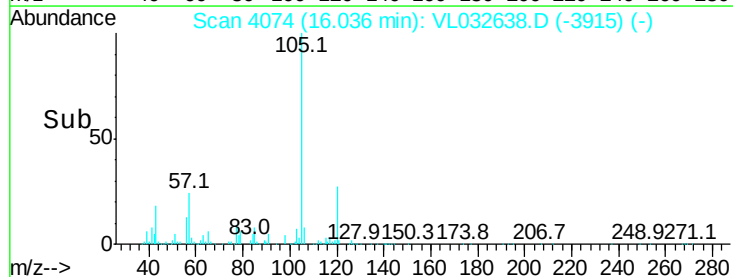
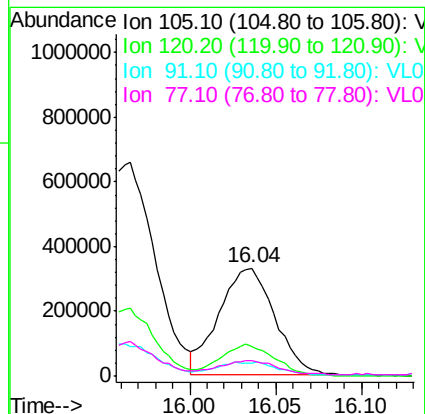
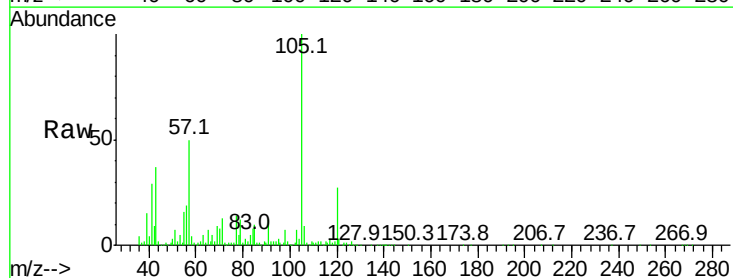
Ion Ratio Lower Upper

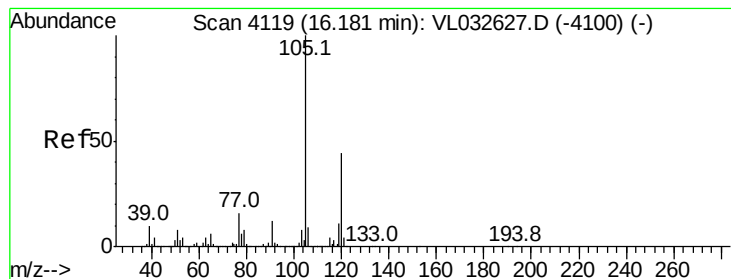
105 100

120 28.5 23.7 35.5

91 12.3 10.4 15.6

77 14.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 1.727 ppbv

RT: 16.19 min Scan# 4123

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

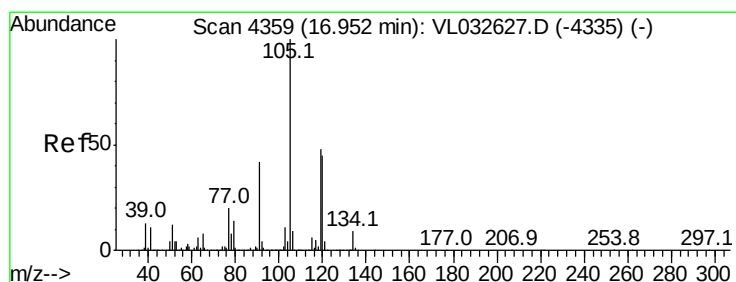
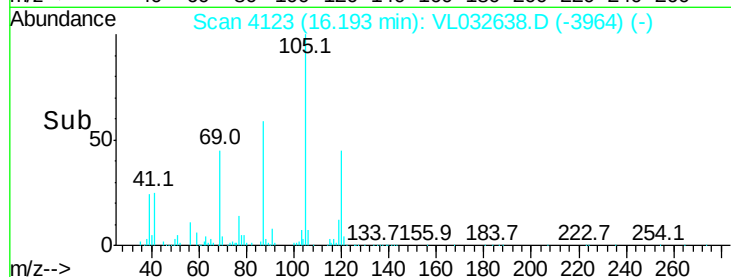
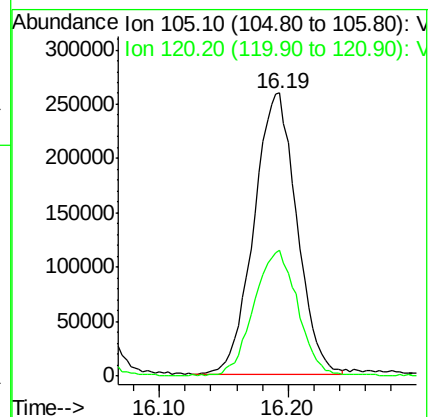
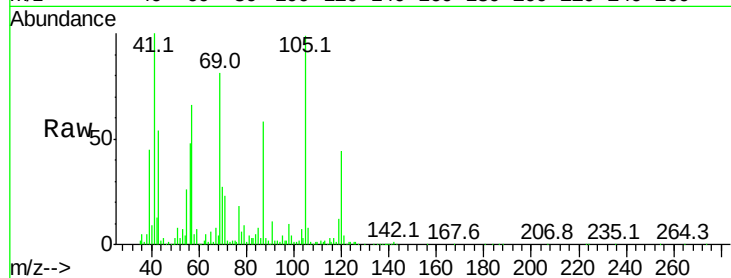
SS04-MIVI

Tgt Ion:105 Resp: 597963

Ion Ratio Lower Upper

105 100

120 44.3 35.4 53.2



#74

1,2,4-Trimethylbenzene

Concen: 5.070 ppbv

RT: 16.96 min Scan# 4361

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Tgt Ion:105 Resp: 1932871

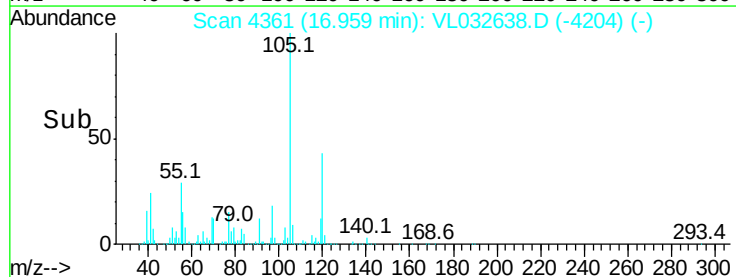
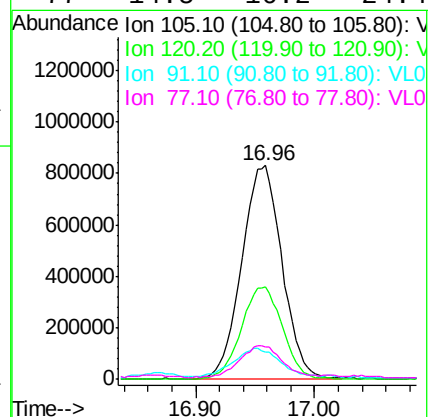
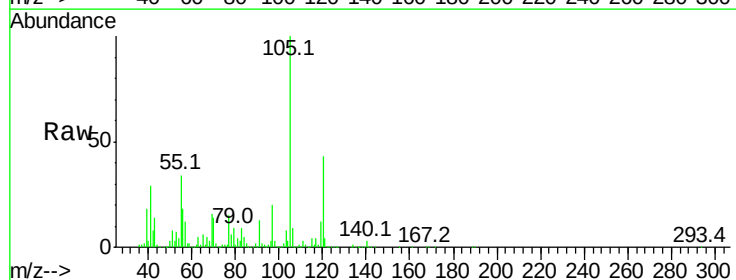
Ion Ratio Lower Upper

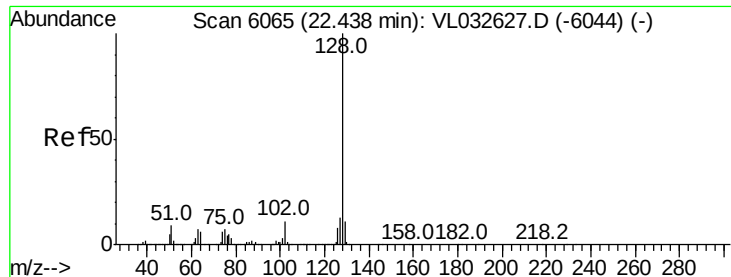
105 100

120 42.9 35.8 53.8

91 12.0 33.2 49.8#

77 14.5 16.2 24.4#





#79

Naphthalene

Concen: 1.168 ppbv

RT: 22.44 min Scan# 6066

Delta R.T. 0.00 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVI

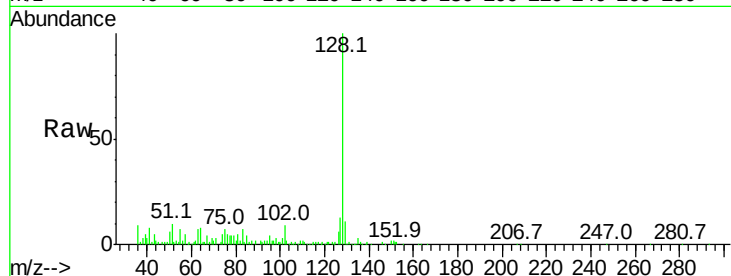
Tgt Ion:128 Resp: 302800

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

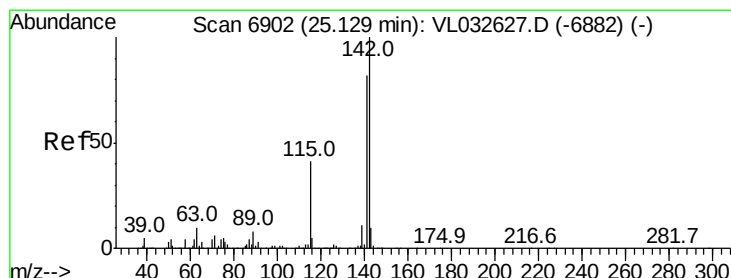
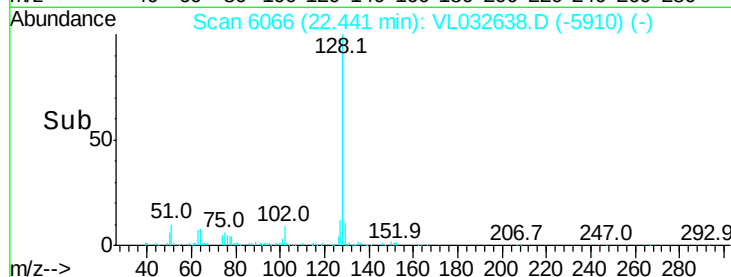
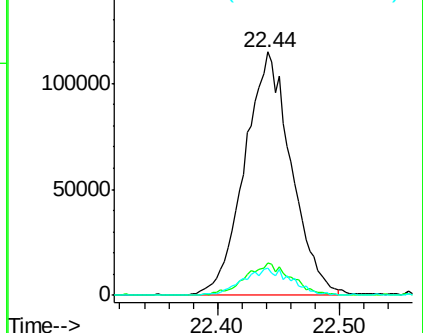
129 11.3 8.6 13.0



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: 1.084 ppbv

RT: 25.14 min Scan# 6905

Delta R.T. 0.01 min

Lab File: VL032638.D

Acq: 17 Oct 2018 13:12

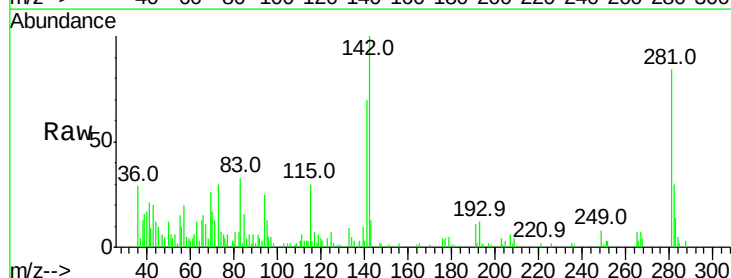
Tgt Ion:142 Resp: 31141

Ion Ratio Lower Upper

142 100

141 84.1 67.5 101.3

115 53.7 33.5 50.3#



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

