

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032412.D
 Acq On : 20 Aug 2018 20:03
 Operator : SY/AP
 Sample : J4472-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 21 01:42:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1783507	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3510500	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3505078	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2700635	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.11	85	130413	0.583 ppbv	95
3) Chlorodifluoromethane	3.05	51	124293	0.752 ppbv #	91
4) Chloromethane	3.21	50	125052	1.272 ppbv	95
6) Bromomethane	3.55	94	2495	0.050 ppbv #	74
7) Chloroethane	3.64	64	3866	0.118 ppbv #	87
9) Propene	3.07	41	658923	9.319 ppbv	98
10) Heptane	8.30	43	16137	0.076 ppbv #	55
11) Trichlorofluoromethane	4.05	101	759648	3.808 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.60	101	9733	0.072 ppbv	94
13) Ethanol	3.69	45	504033	27.755 ppbv	97
15) Acetone	3.94	43	2902916	17.131 ppbv	99
16) 1,3-Butadiene	3.38	39	24178	0.346 ppbv #	22
17) tert-Butyl alcohol	4.41	59	37855	1.331 ppbv #	92
19) Isopropyl Alcohol	4.07	45	1890009	16.564 ppbv	99
20) Methylene Chloride	4.46	84	161176	2.518 ppbv	96
21) Allyl Chloride	4.41	41	15273	0.143 ppbv #	75
23) Vinyl Acetate	5.20	43	499497	1.707 ppbv #	86
25) Ethyl Acetate	5.82	43	348466	0.960 ppbv #	96
26) Hexane	5.83	57	140170	0.866 ppbv	82
27) Carbon Disulfide	4.67	76	19187	0.127 ppbv #	75
29) Chloroform	5.90	83	31493	0.133 ppbv	96
31) cis-1,2-Dichloroethene	5.82	61	31729	0.200 ppbv #	33
34) 2-Butanone	5.38	43	1076633	4.506 ppbv	100
36) Benzene	7.06	78	238710	0.802 ppbv	99
38) Trichloroethene	8.02	130	21005	0.201 ppbv	91
39) 1,2-Dichloropropane	7.35	63	959106	7.715 ppbv #	25
44) 2,2,4-Trimethylpentane	8.05	57	76394	0.142 ppbv #	69
50) 4-Methyl-2-Pentanone	8.94	43	127790	0.370 ppbv	97
51) 2-Hexanone	10.33	43	149973	0.619 ppbv #	94
52) Tetrachloroethene	11.43	164	104573	1.191 ppbv #	80
53) Toluene	10.01	91	979195	3.001 ppbv	98
58) Ethyl Benzene	12.93	91	84547	0.200 ppbv	89
59) m/p-Xylene	13.18	91	225147	0.628 ppbv	99
60) o-Xylene	13.91	91	69542	0.198 ppbv #	55
61) Styrene	13.74	104	14867	0.060 ppbv #	1
69) p-Isopropyltoluene	17.87	119	20077	0.041 ppbv #	37
72) 4-Ethyltoluene	16.06	105	13628	0.035 ppbv #	26
73) 1,3,5-Trimethylbenzene	16.22	105	16428	0.043 ppbv #	75
74) 1,2,4-Trimethylbenzene	16.98	105	36648	0.091 ppbv #	72
75) 1,3-Dichlorobenzene	17.38	146	8609275	35.643 ppbv	99
76) 1,4-Dichlorobenzene	17.38	146	8609275	37.629 ppbv	99

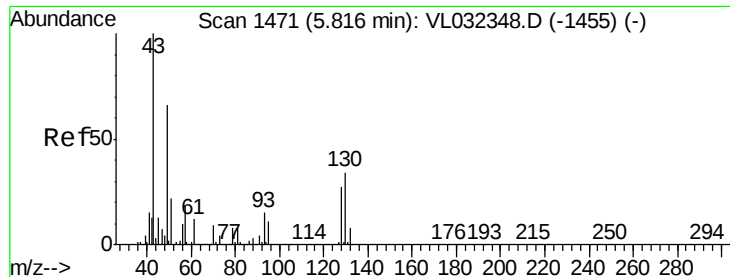
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
Data File : VL032412.D
Acq On : 20 Aug 2018 20:03
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Quant Time: Aug 21 01:42:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	22.49	128	87768	0.553	ppbv #	94
80) Naphthalene,2-methyl-	25.16	142	6273	0.078	ppbv #	87

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

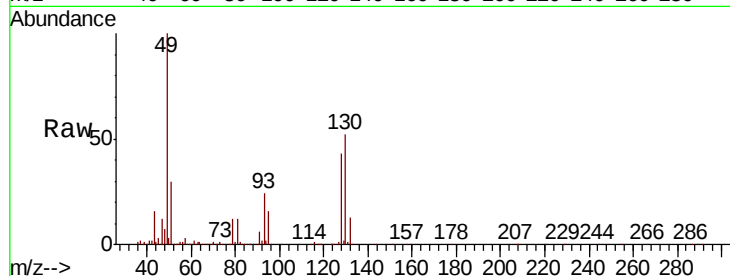
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1783507

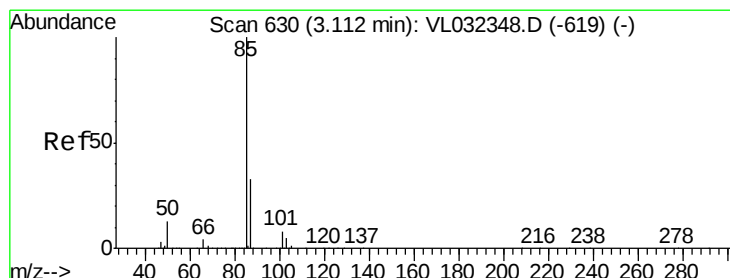
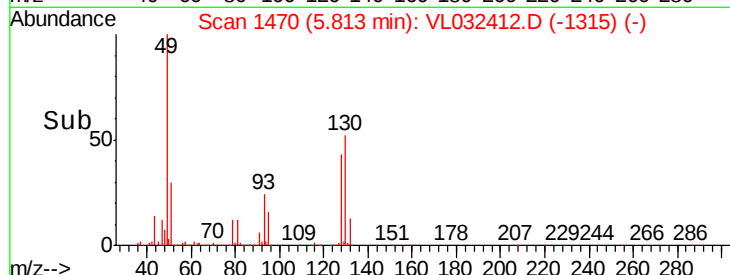
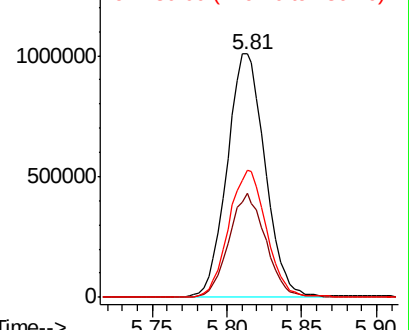
Ion	Ratio	Lower	Upper
49	100		
128	41.5	20.5	61.6
130	52.2	26.2	78.5



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: 0.583 ppbv

RT: 3.11 min Scan# 630

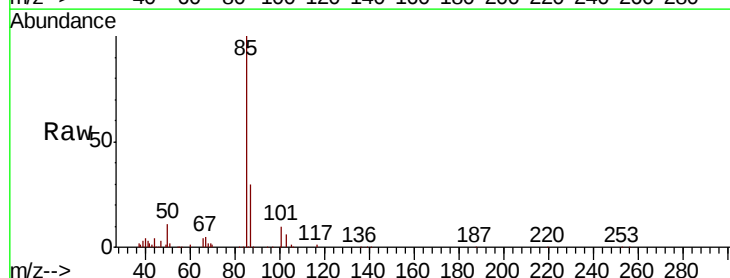
Delta R.T. 0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

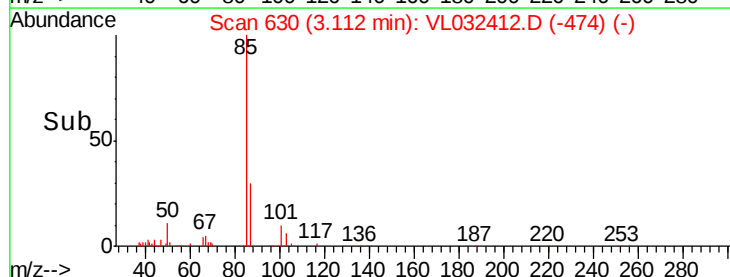
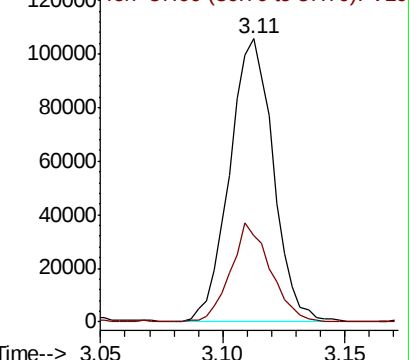
Tgt Ion: 85 Resp: 130413

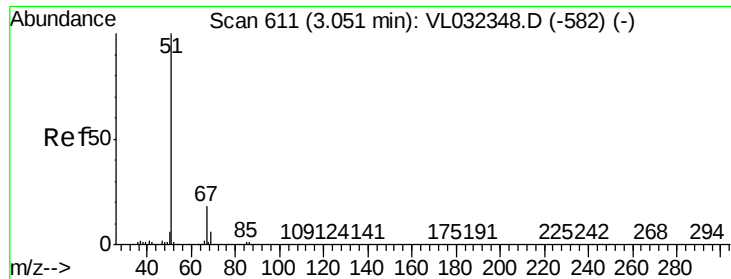
Ion	Ratio	Lower	Upper
85	100		
87	30.3	26.3	39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

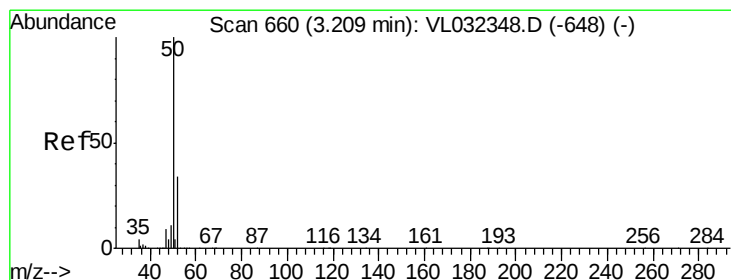
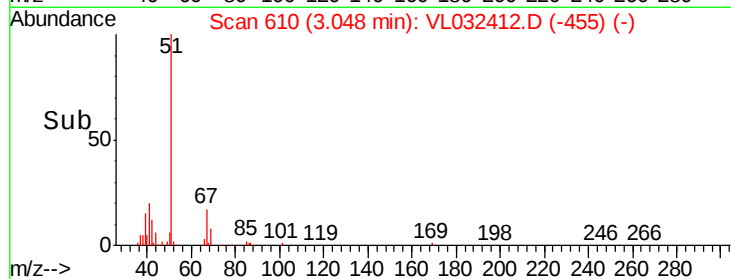
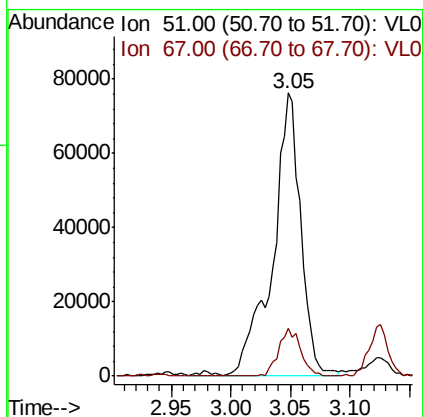
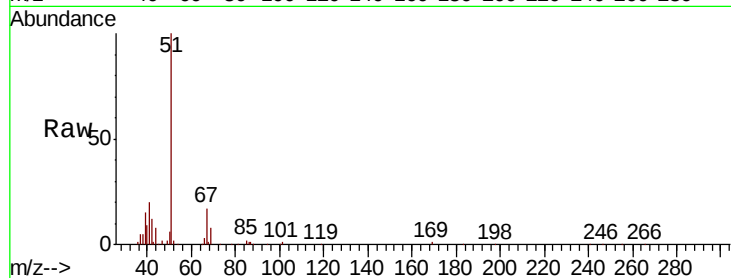




#3
 Chlorodifluoromethane
 Concen: 0.752 ppbv
 RT: 3.05 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

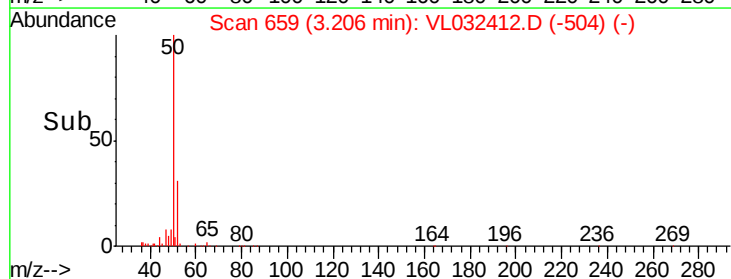
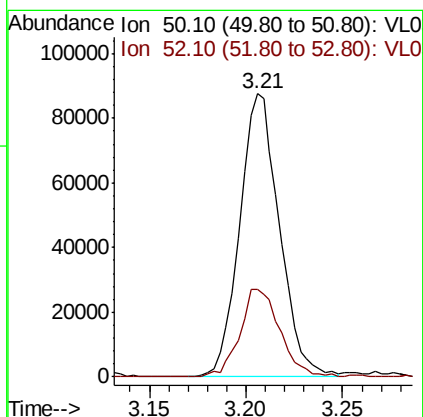
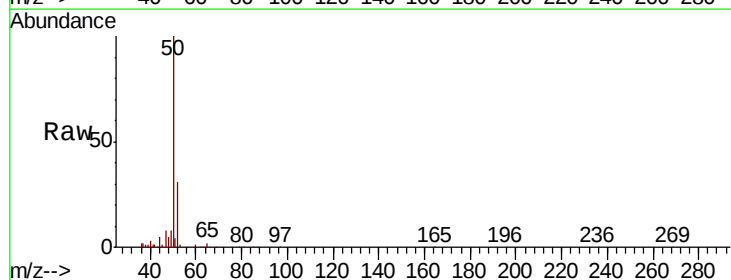
Instrument :
 MSVOA_L
 ClientSampleId :

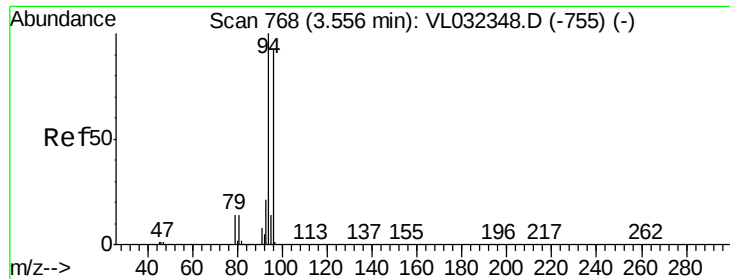
Tot Ion: 51 Resp: 124293
 Ion Ratio Lower Upper
 51 100
 67 13.3 13.7 20.5#



#4
 Chloromethane
 Concen: 1.272 ppbv
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion: 50 Resp: 125052
 Ion Ratio Lower Upper
 50 100
 52 30.8 26.8 40.2





#6

Bromomethane

Concen: 0.050 ppbv

RT: 3.55 min Scan# 767

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

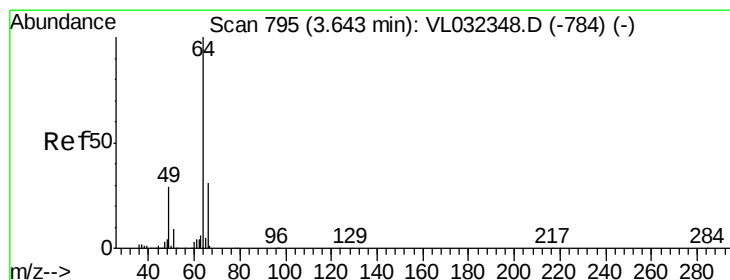
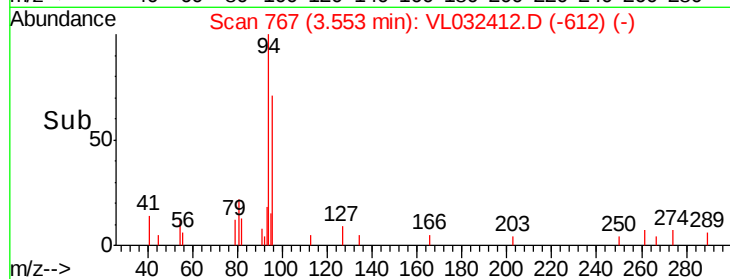
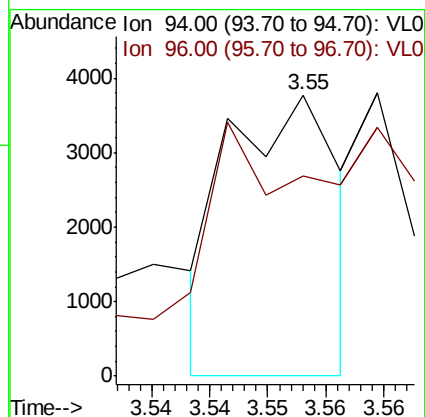
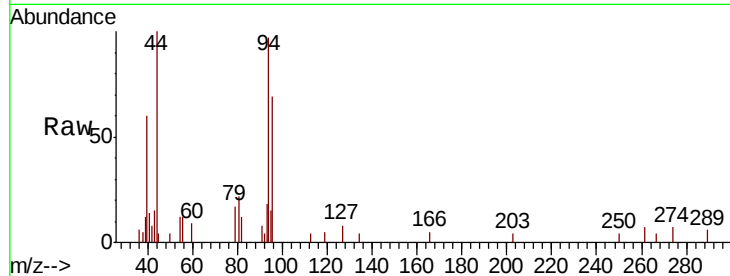
ClientSampleId :

Tot Ion: 94 Resp: 2495

Ion Ratio Lower Upper

94 100

96 67.0 73.7 110.5#



#7

Chloroethane

Concen: 0.118 ppbv

RT: 3.64 min Scan# 793

Delta R.T. -0.01 min

Lab File: VL032412.D

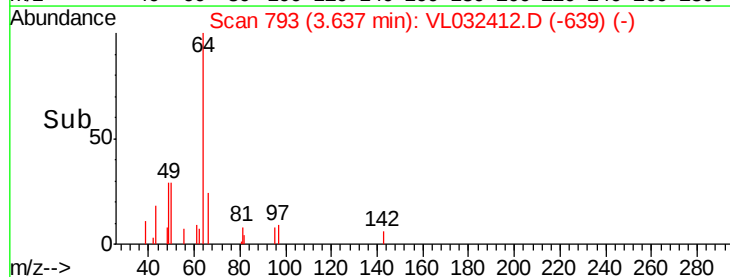
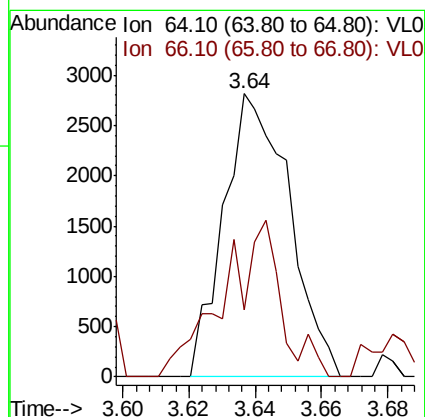
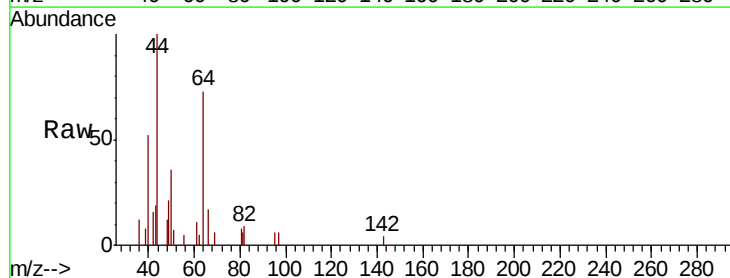
Acq: 20 Aug 2018 20:03

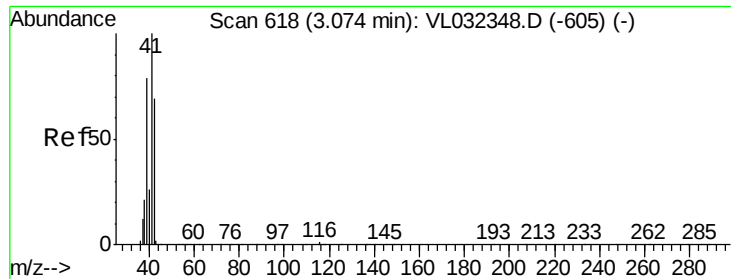
Tgt Ion: 64 Resp: 3866

Ion Ratio Lower Upper

64 100

66 23.7 24.6 36.8#





#9

Propene

Concen: 9.319 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

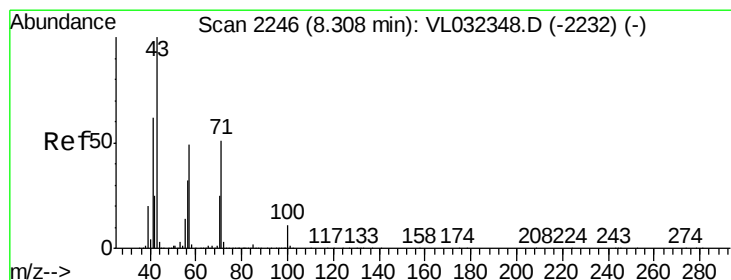
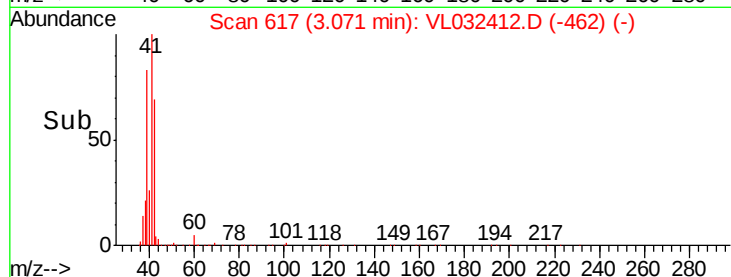
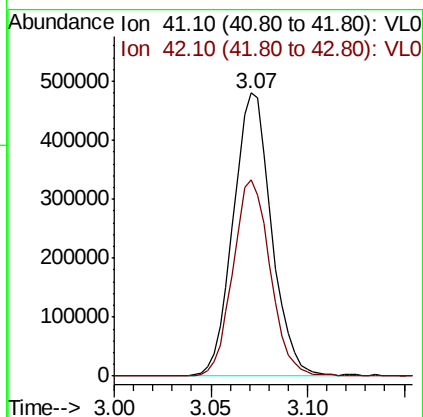
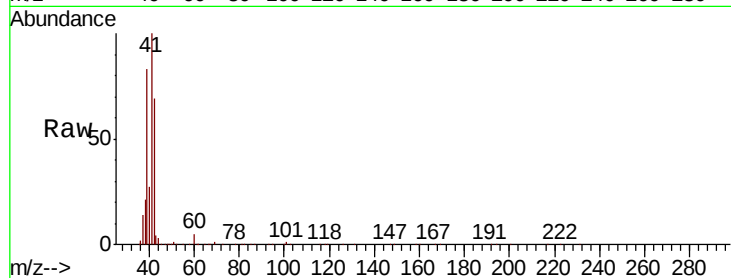
ClientSampled :

Tot Ion: 41 Resp: 658923

Ion Ratio Lower Upper

41 100

42 68.3 55.9 83.9



#10

Heptane

Concen: 0.076 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. -0.01 min

Lab File: VL032412.D

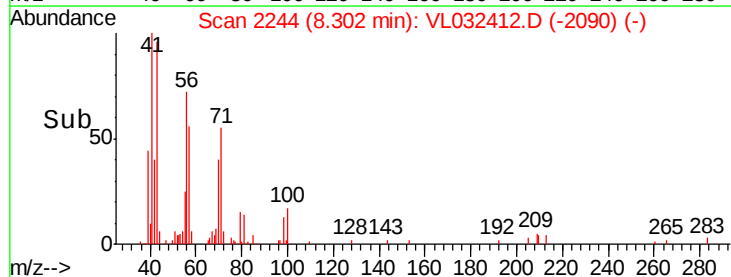
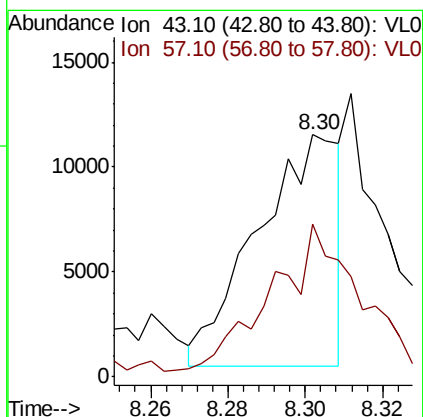
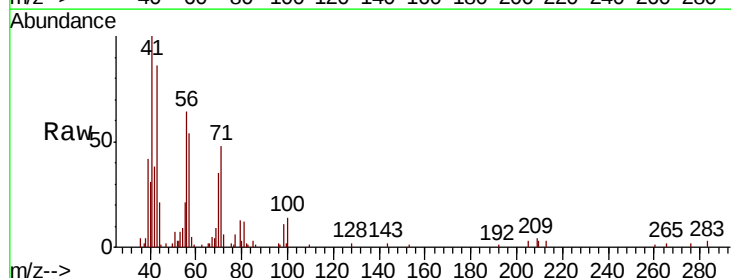
Acq: 20 Aug 2018 20:03

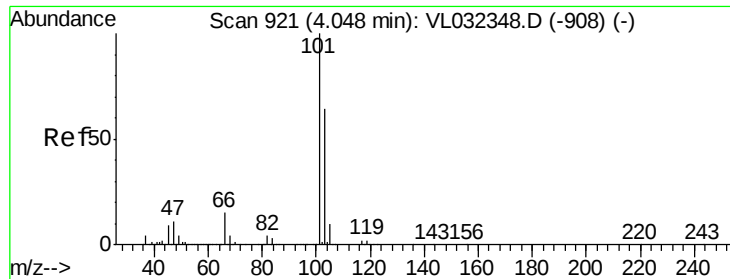
Tgt Ion: 43 Resp: 16137

Ion Ratio Lower Upper

43 100

57 80.1 39.5 59.3#

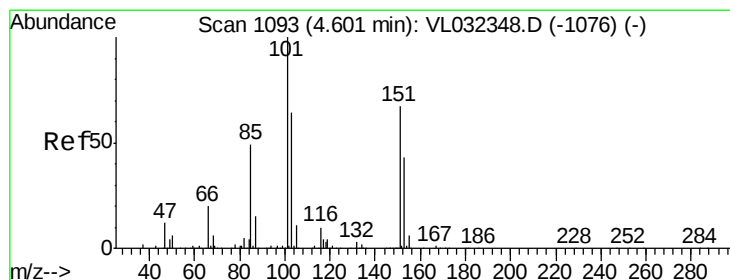
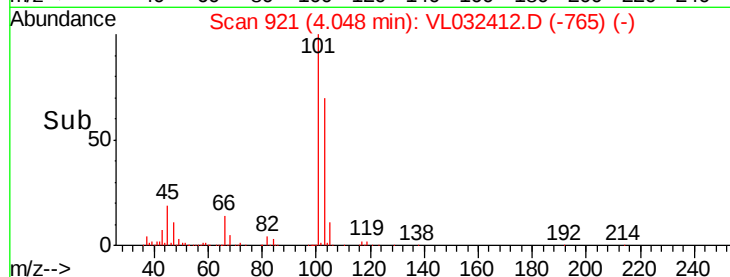
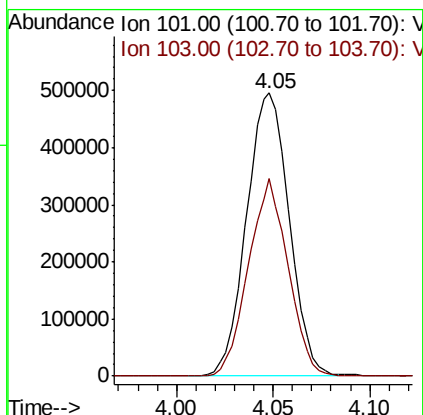
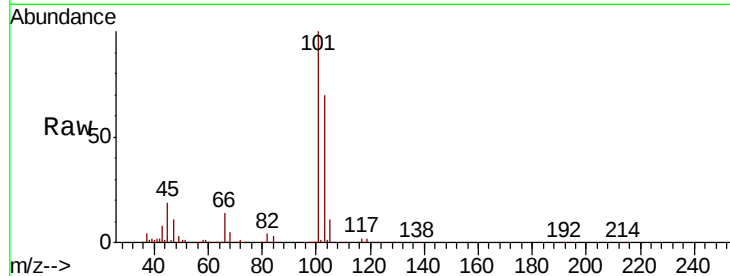




#11
 Trichlorofluoromethane
 Concen: 3.808 ppbv
 RT: 4.05 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

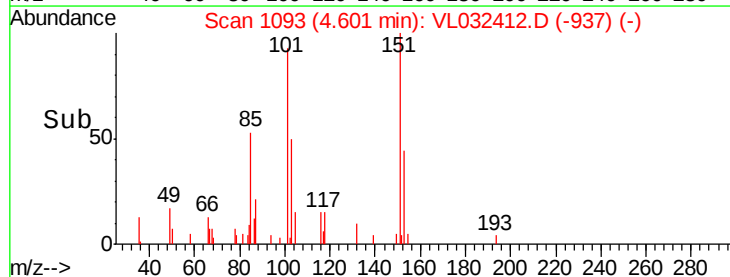
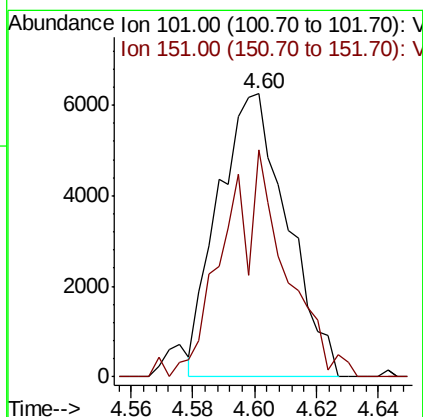
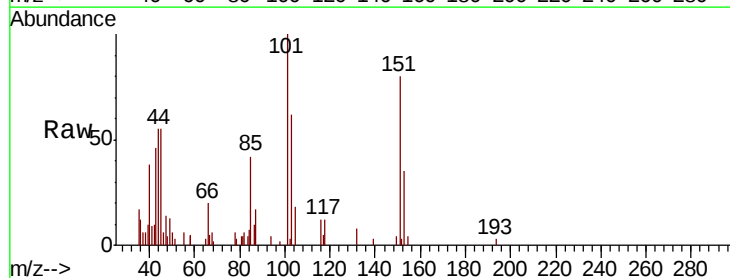
Instrument :
 MSVOA_L
 ClientSampleId :

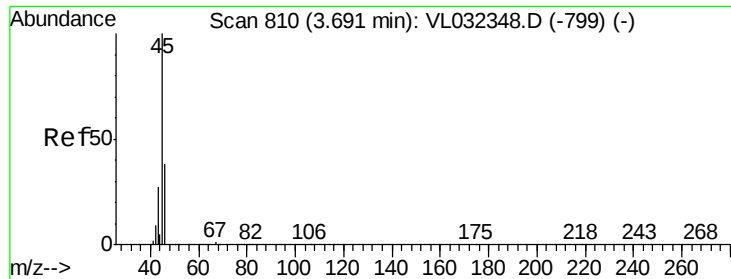
Tot Ion:101 Resp: 759648
 Ion Ratio Lower Upper
 101 100
 103 69.9 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.072 ppbv
 RT: 4.60 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion:101 Resp: 9733
 Ion Ratio Lower Upper
 101 100
 151 71.1 53.1 79.7





#13

Ethanol

Concen: 27.755 ppbv

RT: 3.69 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

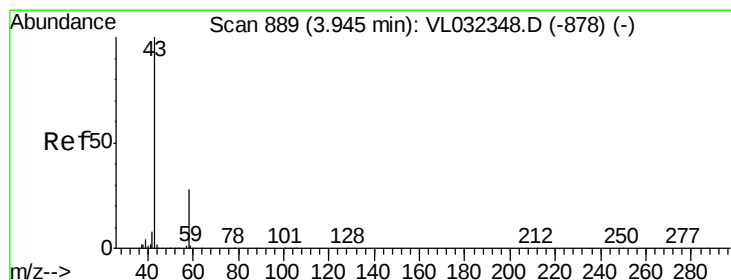
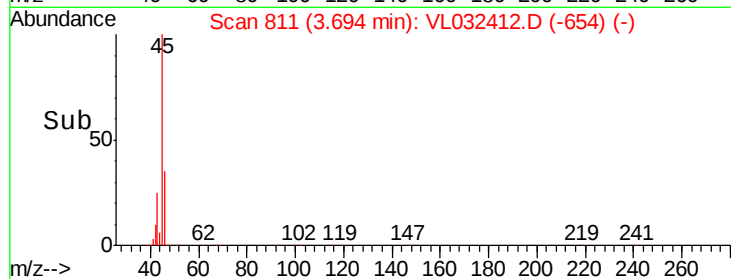
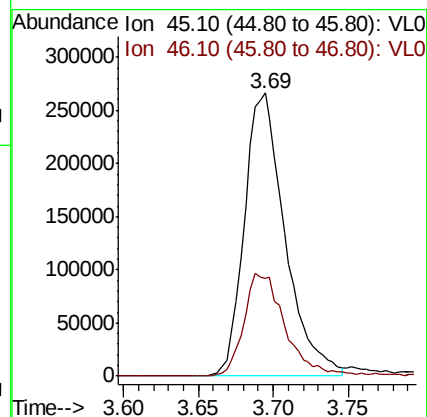
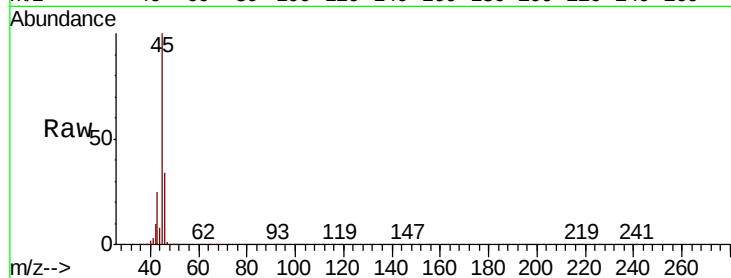
ClientSampleId :

Tot Ion: 45 Resp: 504033

Ion Ratio Lower Upper

45 100

46 37.1 15.6 62.4



#15

Acetone

Concen: 17.131 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032412.D

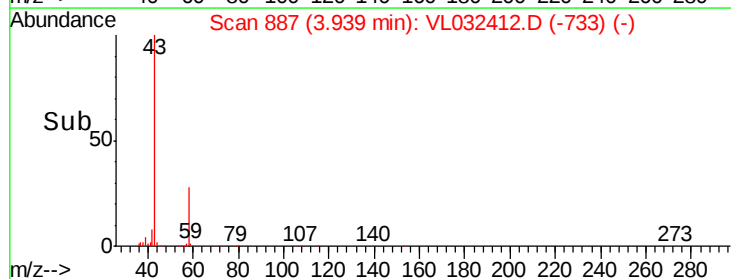
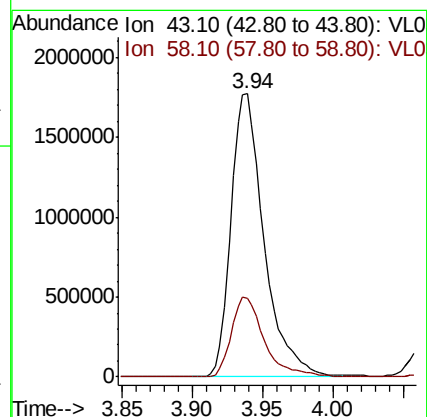
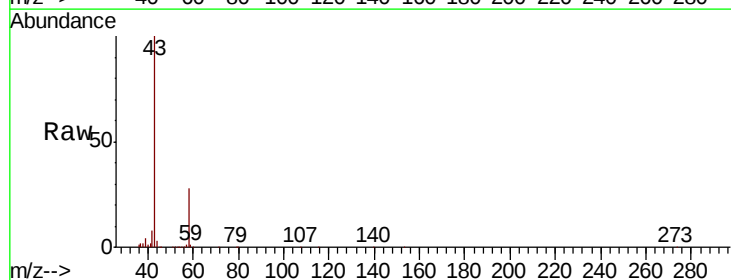
Acq: 20 Aug 2018 20:03

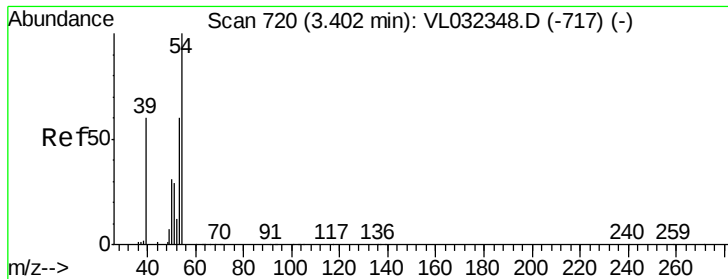
Tgt Ion: 43 Resp: 2902916

Ion Ratio Lower Upper

43 100

58 28.5 22.4 33.6

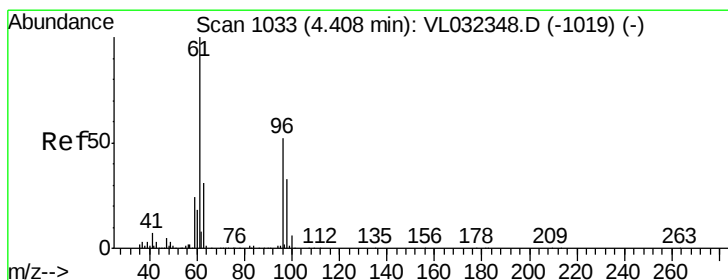
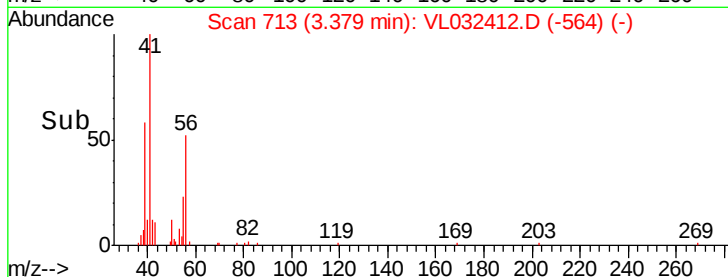
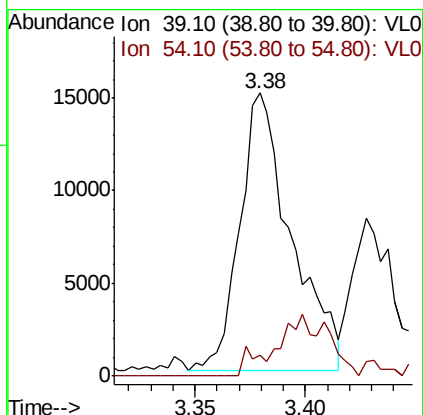
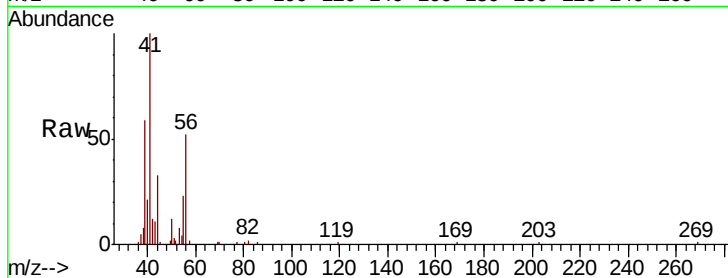




#16
 1,3-Butadiene
 Concen: 0.346 ppbv
 RT: 3.38 min Scan# 713
 Delta R.T. -0.02 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

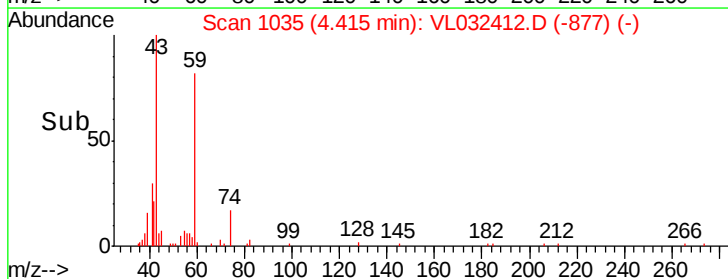
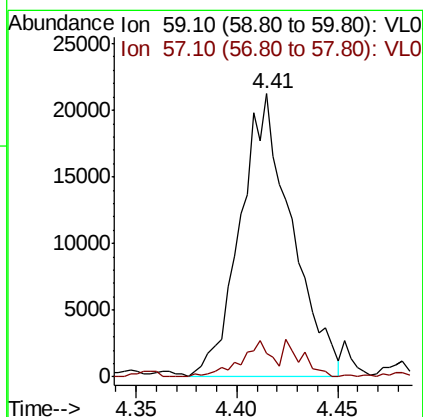
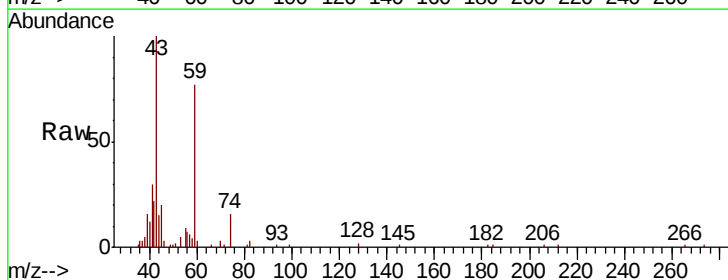
Instrument :
 MSVOA_L
 ClientSampleId :

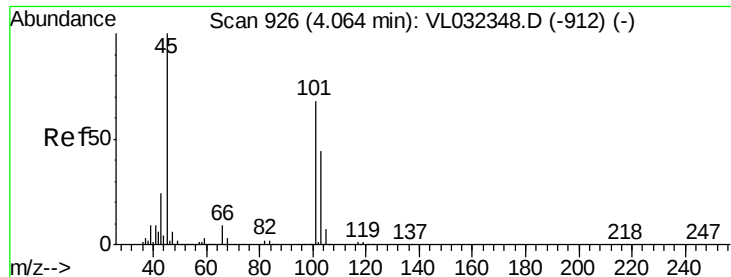
Tot Ion: 39 Resp: 24178
 Ion Ratio Lower Upper
 39 100
 54 25.8 85.5 128.3#



#17
 tert-Butyl alcohol
 Concen: 1.331 ppbv
 RT: 4.41 min Scan# 1035
 Delta R.T. 0.01 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion: 59 Resp: 37855
 Ion Ratio Lower Upper
 59 100
 57 12.5 7.6 11.4#



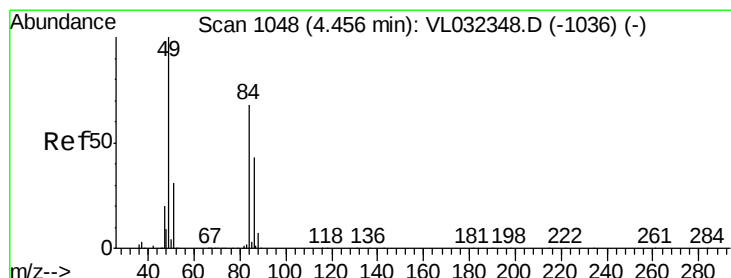
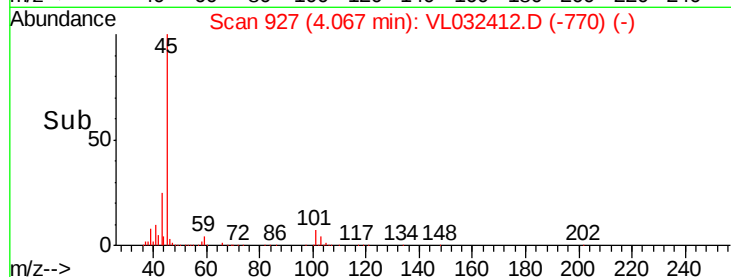
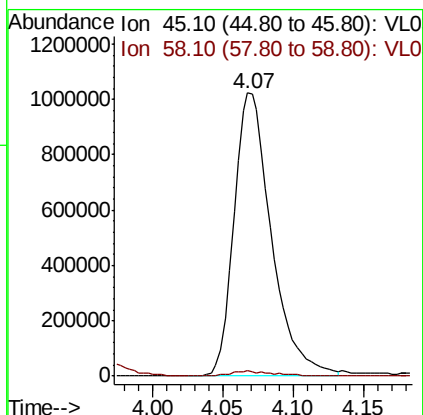
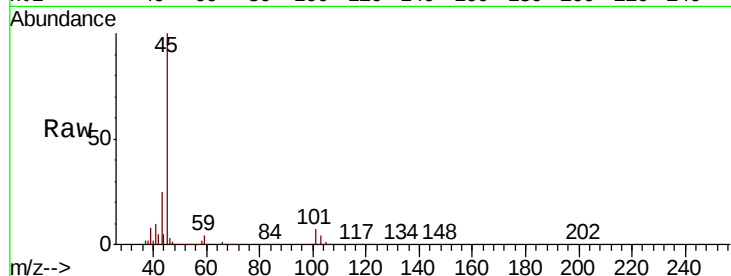


#19

Isopropyl Alcohol
 Concen: 16.564 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Instrument :
 MSVOA_L
 ClientSampled :

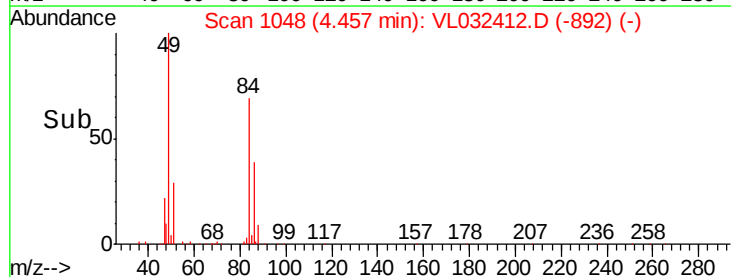
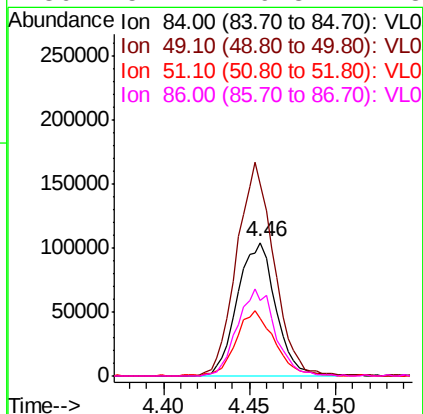
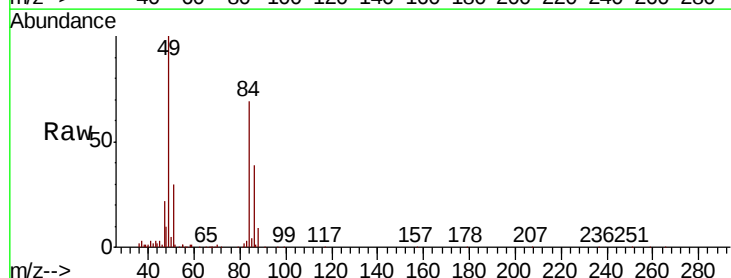
Tot Ion: 45 Resp: 1890009
 Ion Ratio Lower Upper
 45 100
 58 2.0 1.4 2.0

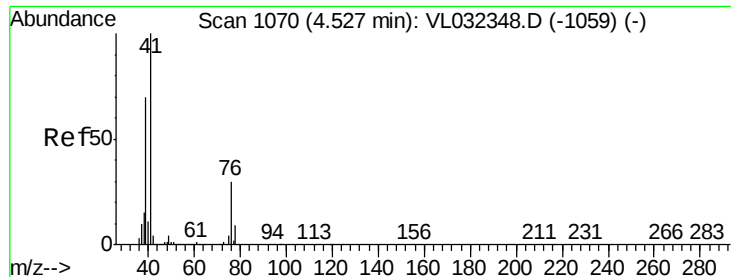


#20

Methylene Chloride
 Concen: 2.518 ppbv
 RT: 4.46 min Scan# 1048
 Delta R.T. 0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion: 84 Resp: 161176
 Ion Ratio Lower Upper
 84 100
 49 143.9 117.3 175.9
 51 42.9 36.6 55.0
 86 57.1 49.8 74.8

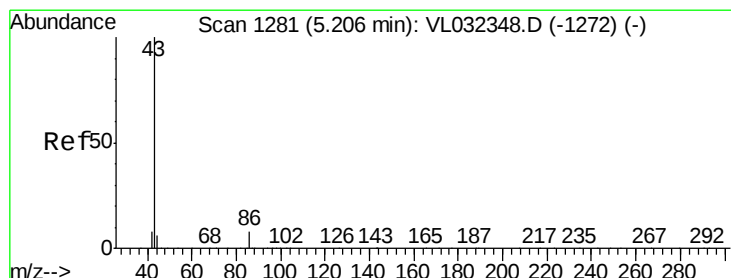
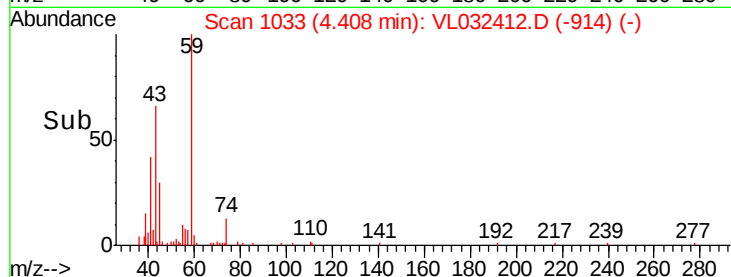
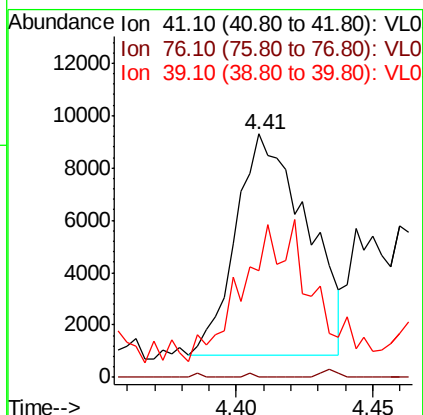
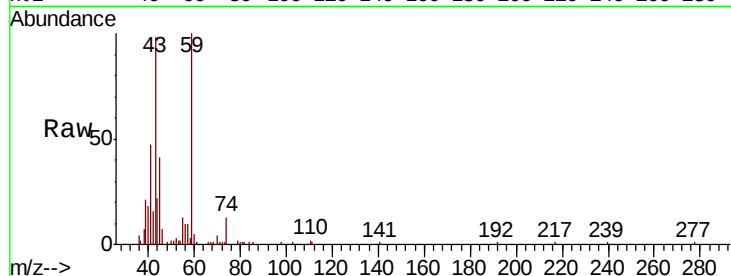




#21
Allvl Chloride
Concen: 0.143 ppbv
RT: 4.41 min Scan# 1033
Delta R.T. -0.12 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

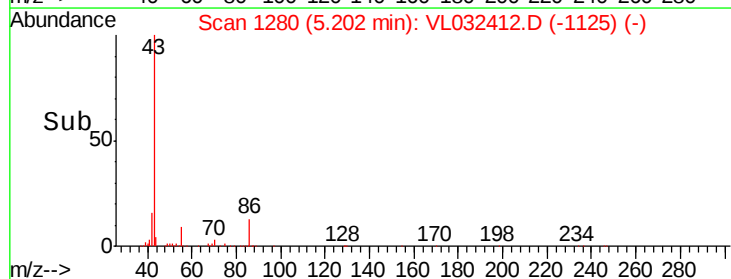
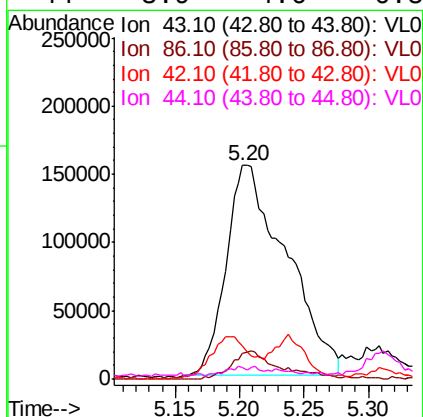
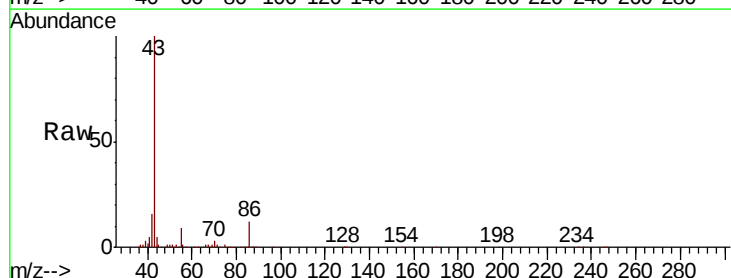
Instrument :
MSVOA_L
ClientSampleId :

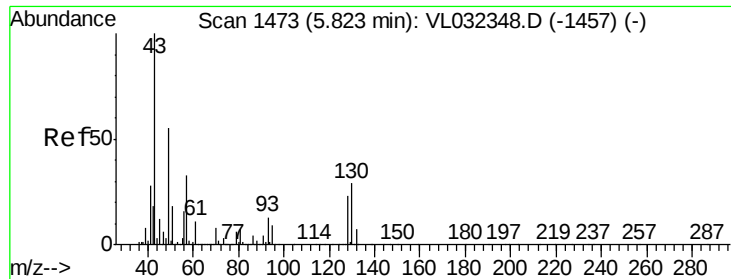
Tot Ion: 41 Resp: 15273
Ion Ratio Lower Upper
41 100
76 0.0 22.9 34.3#
39 61.2 57.6 86.4



#23
Vinyl Acetate
Concen: 1.707 ppbv
RT: 5.20 min Scan# 1280
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion: 43 Resp: 499497
Ion Ratio Lower Upper
43 100
86 12.4 5.5 8.3#
42 14.9 7.0 10.6#
44 3.9 4.6 6.8#

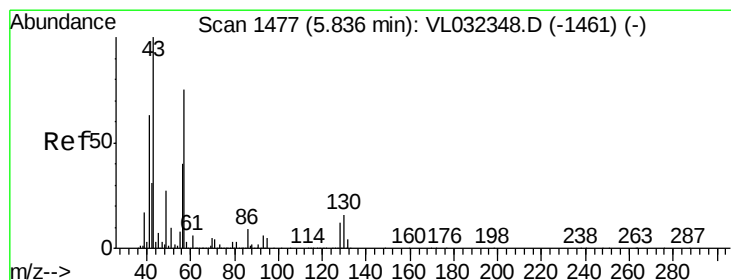
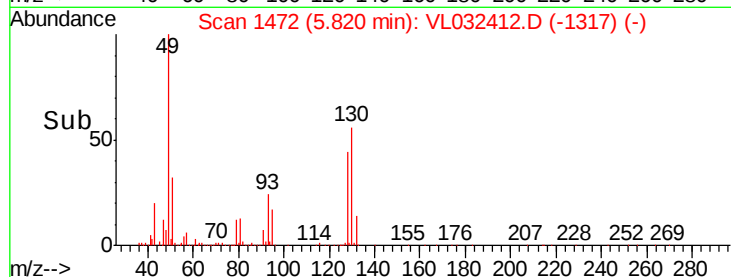
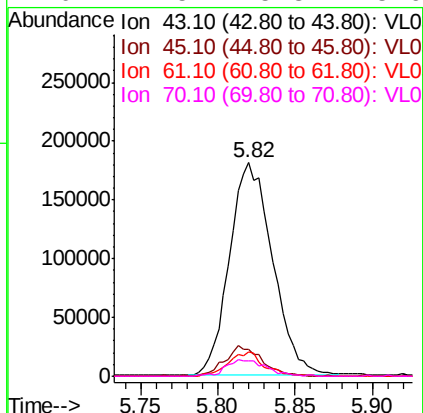
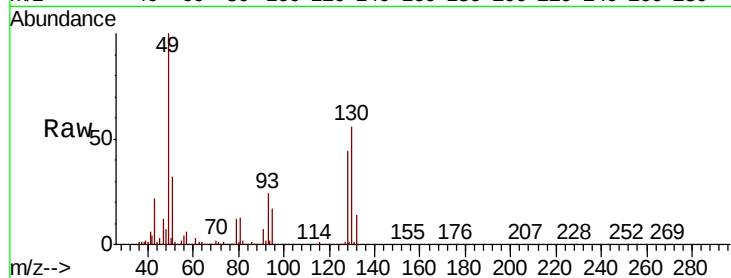




#25
Ethyl Acetate
Concen: 0.960 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

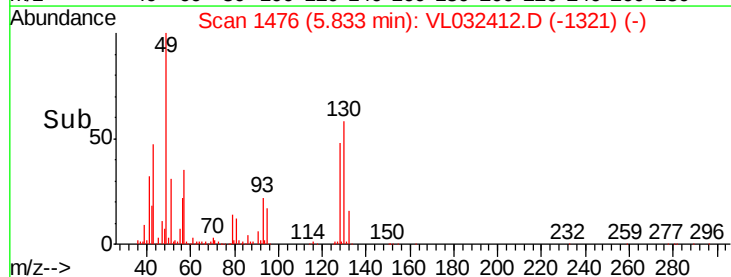
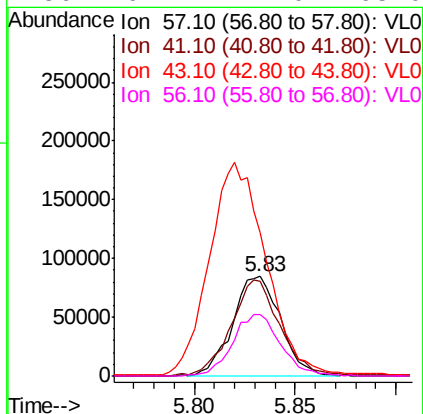
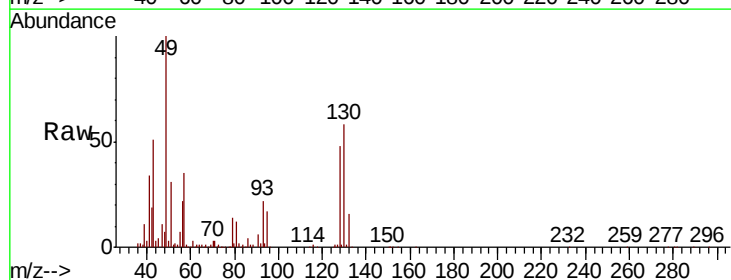
Instrument :
MSVOA_L
ClientSampled :

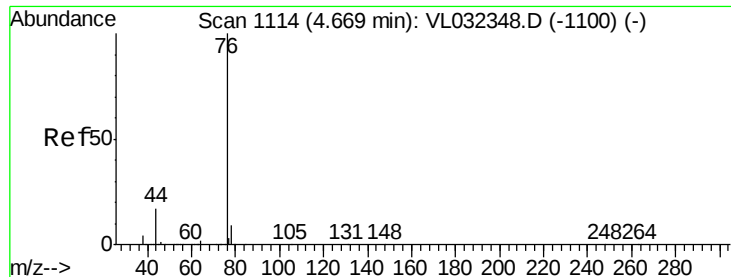
Tot Ion:	43	Resp:	348466
Ion	Ratio	Lower	Upper
43	100		
45	12.9	7.9	11.9#
61	9.5	7.4	11.2
70	7.5	5.8	8.6



#26
Hexane
Concen: 0.866 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion:	57	Resp:	140170
Ion	Ratio	Lower	Upper
57	100		
41	101.7	68.0	102.0
43	250.2	175.3	262.9
56	62.4	42.0	63.0





#27

Carbon Disulfide

Concen: 0.127 ppbv

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

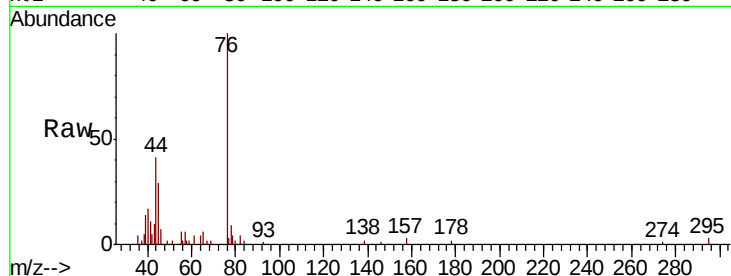
Tot Ion: 76 Resp: 19187

Ion Ratio Lower Upper

76 100

44 34.3 14.4 21.6#

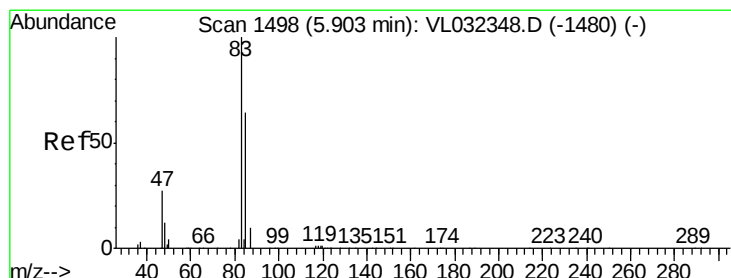
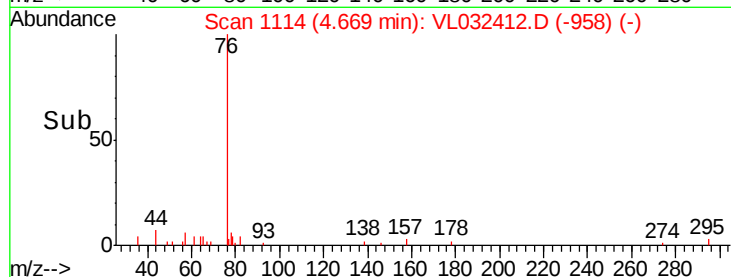
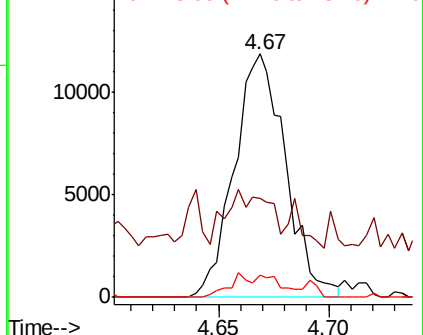
78 10.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.133 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VL032412.D

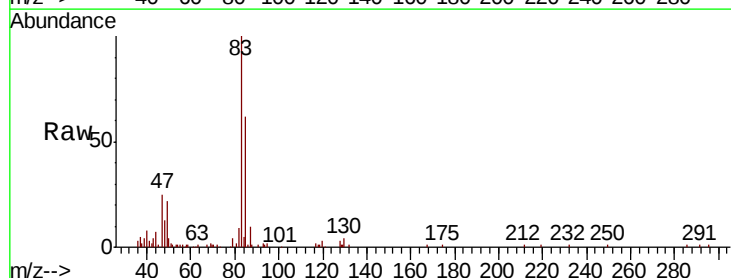
Acq: 20 Aug 2018 20:03

Tgt Ion: 83 Resp: 31493

Ion Ratio Lower Upper

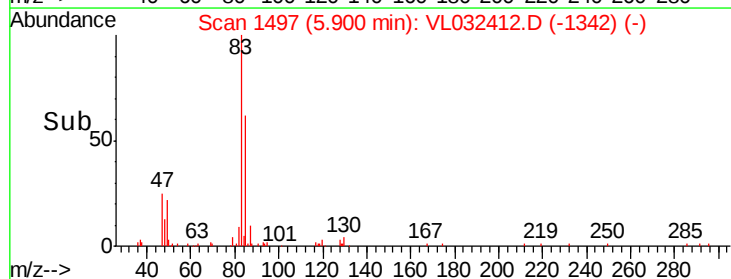
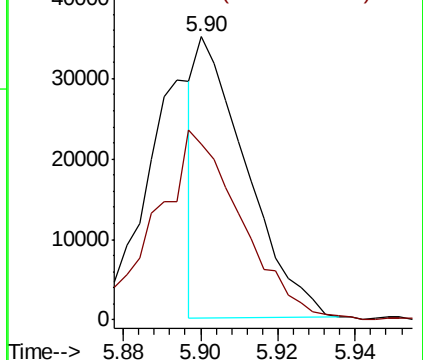
83 100

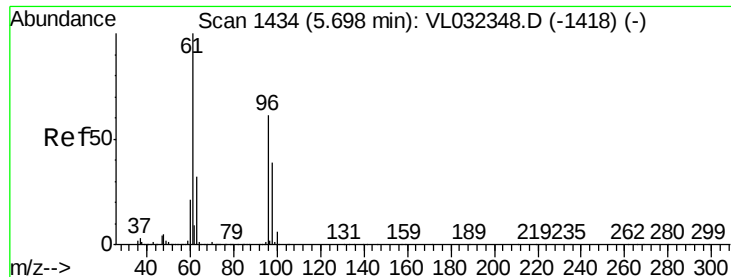
85 61.0 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

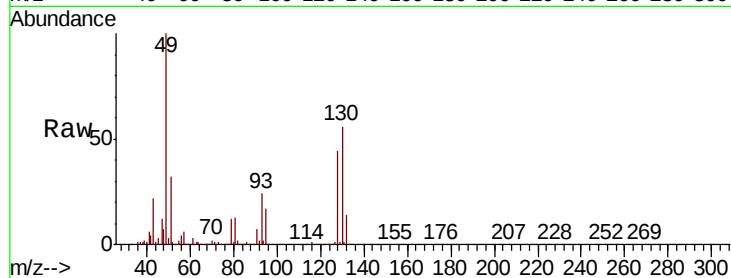




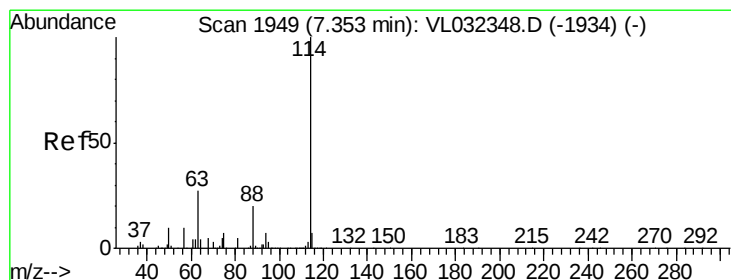
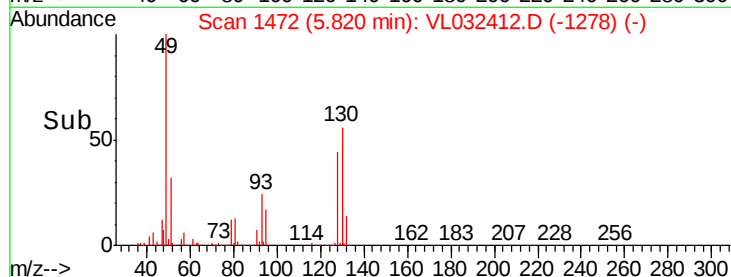
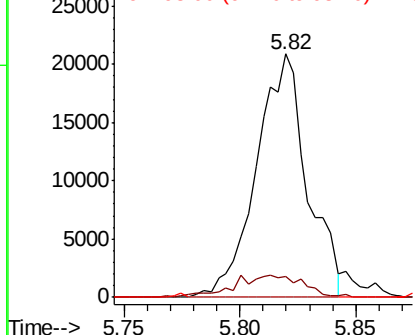
#31
 cis-1,2-Dichloroethene
 Concen: 0.200 ppbv
 RT: 5.82 min Scan# 1472
 Delta R.T. 0.12 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
61	100		
96	7.6	48.5	72.7#
98	0.0	31.0	46.4#

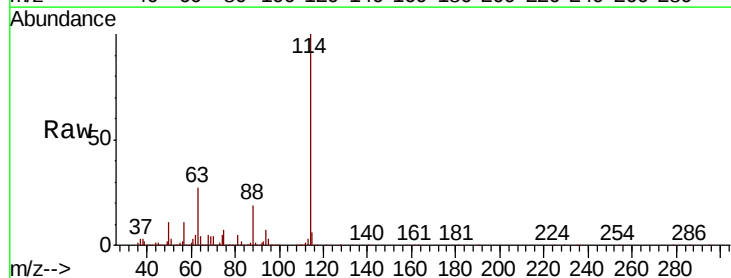


Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0

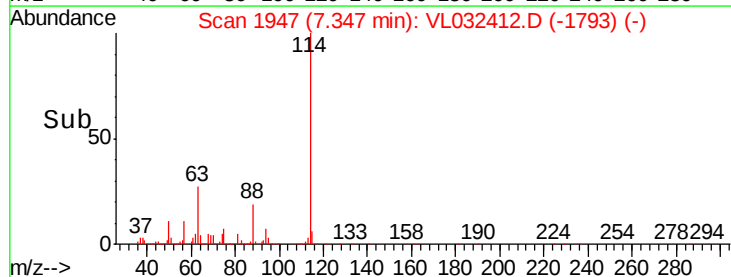
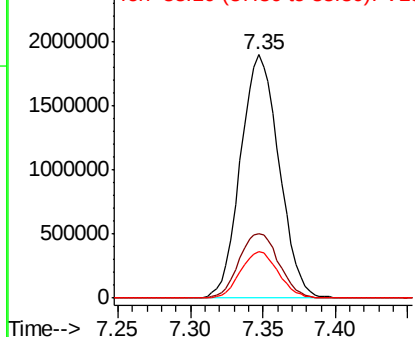


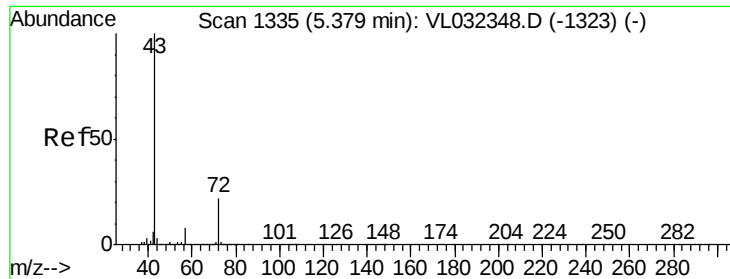
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.0	33.0
88	18.9	15.3	22.9



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

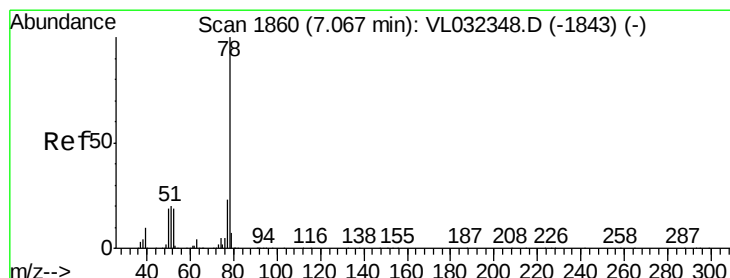
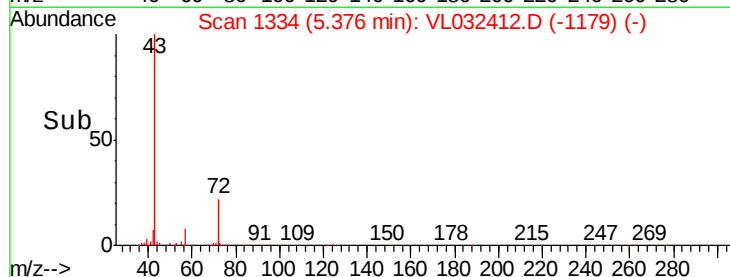
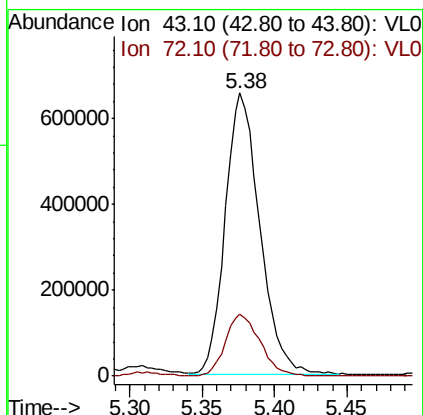
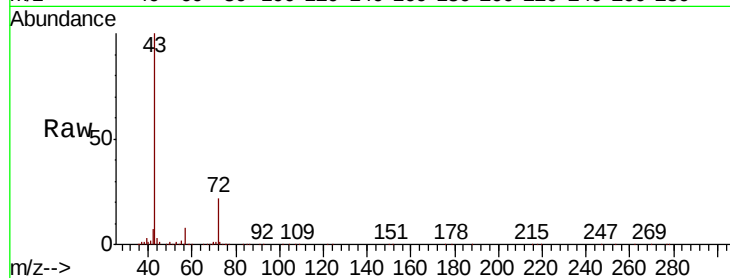




#34
2-Butanone
Concen: 4.506 ppbv
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

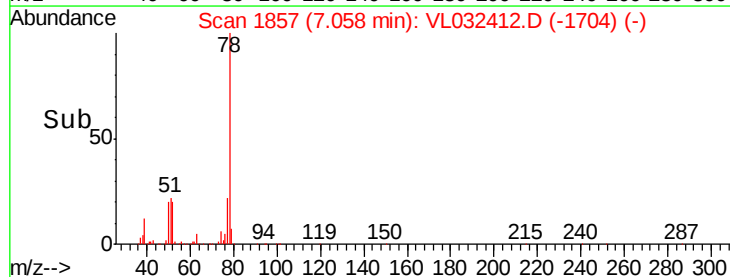
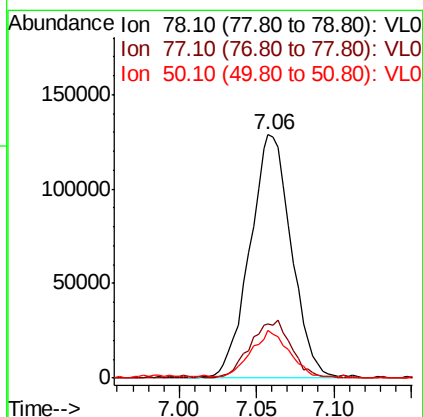
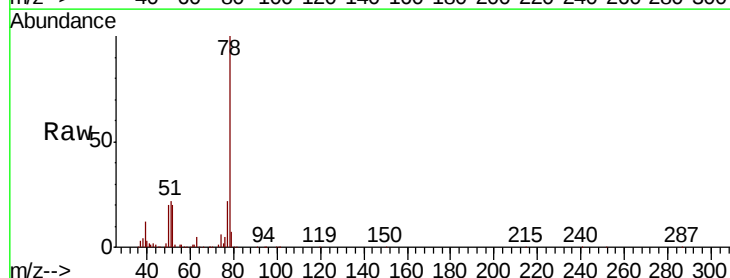
Instrument :
MSVOA_L
ClientSampleId :

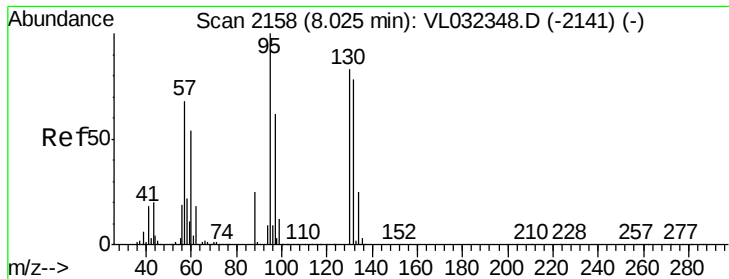
Tot Ion: 43 Resp: 1076633
Ion Ratio Lower Upper
43 100
72 22.5 17.9 26.9



#36
Benzene
Concen: 0.802 ppbv
RT: 7.06 min Scan# 1857
Delta R.T. -0.01 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion: 78 Resp: 238710
Ion Ratio Lower Upper
78 100
77 22.3 18.0 27.0
50 19.4 15.1 22.7





#38

Trichloroethene

Concen: 0.201 ppbv

RT: 8.02 min Scan# 2157

Delta R.T. -0.00 min

Lab File: VL032412.D

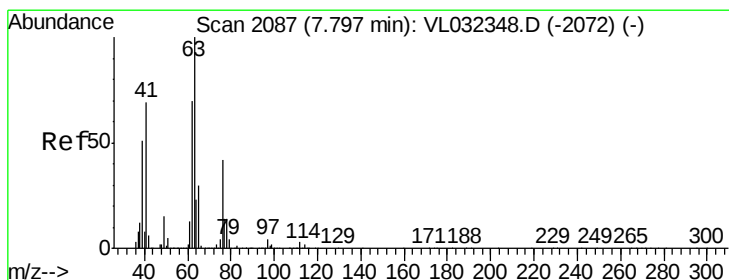
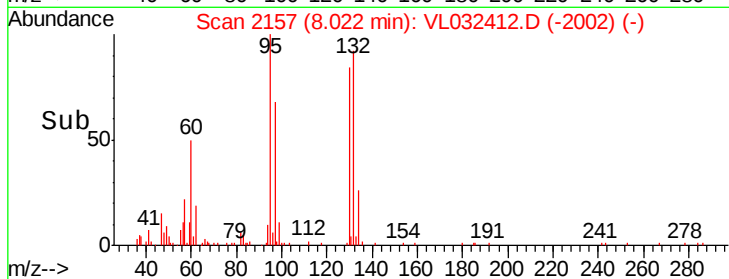
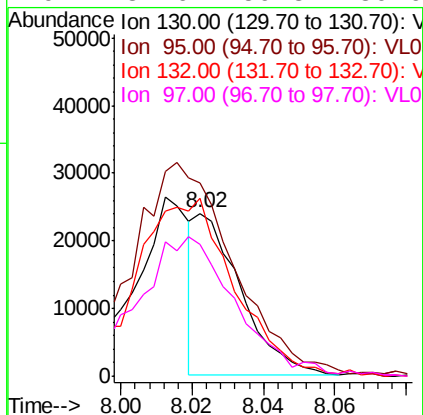
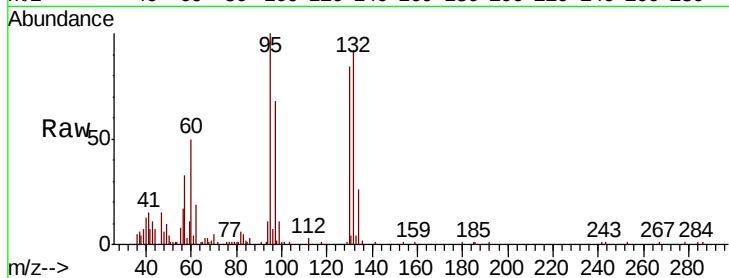
Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	130	Resp:	21005
Ion	Ratio	Lower	Upper
130	100		
95	116.3	96.6	144.8
132	108.3	75.5	113.3
97	82.6	59.8	89.6



#39

1,2-Dichloropropane

Concen: 7.715 ppbv

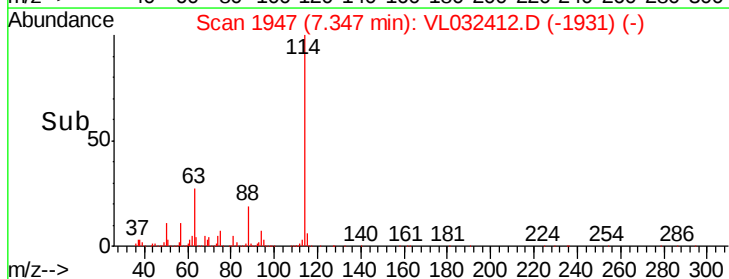
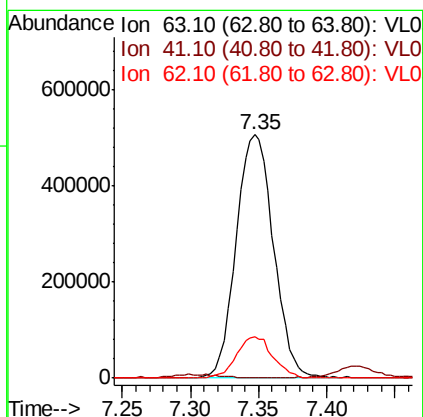
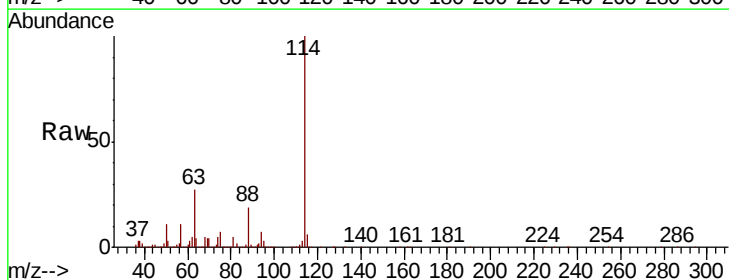
RT: 7.35 min Scan# 1947

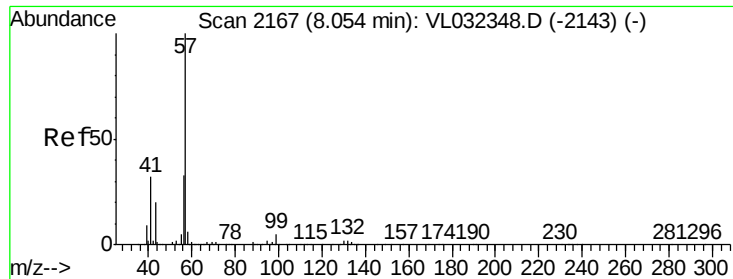
Delta R.T. -0.45 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Tgt Ion:	63	Resp:	959106
Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.5	83.3#
62	17.2	56.3	84.5#

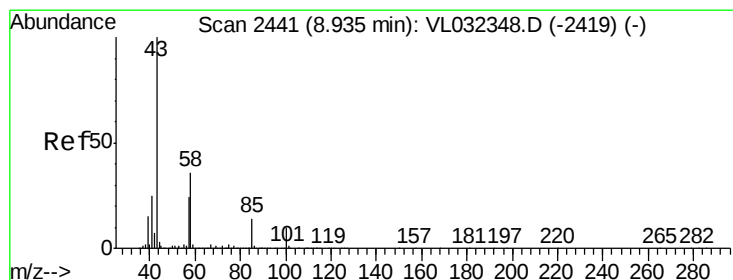
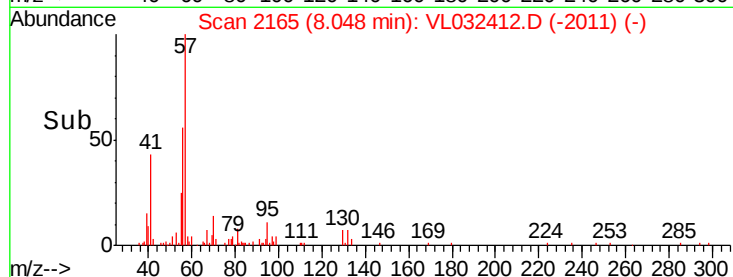
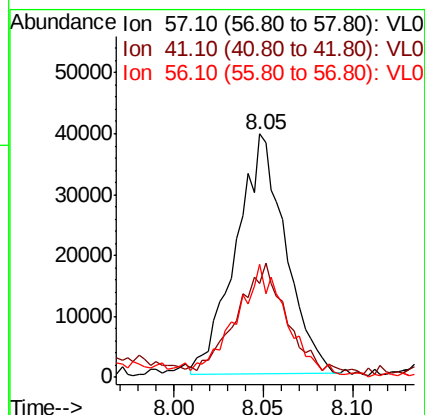
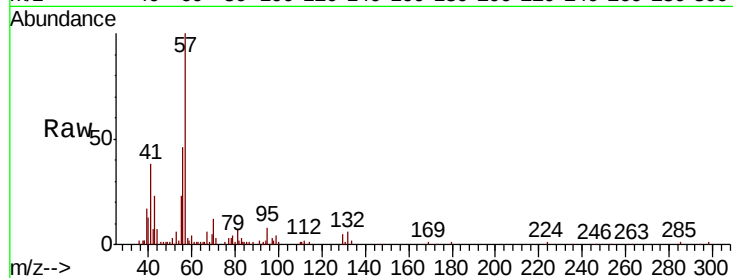




#44
 2,2,4-Trimethylpentane
 Concen: 0.142 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. -0.01 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

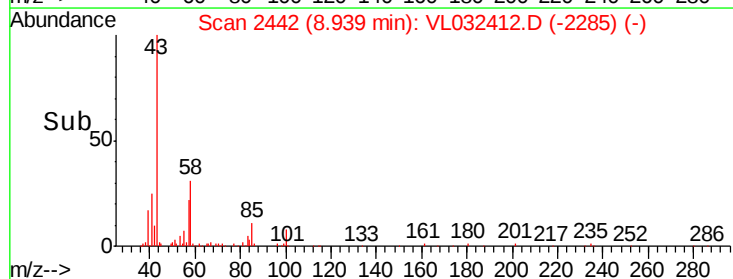
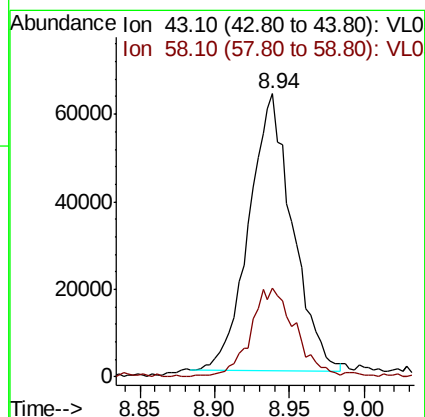
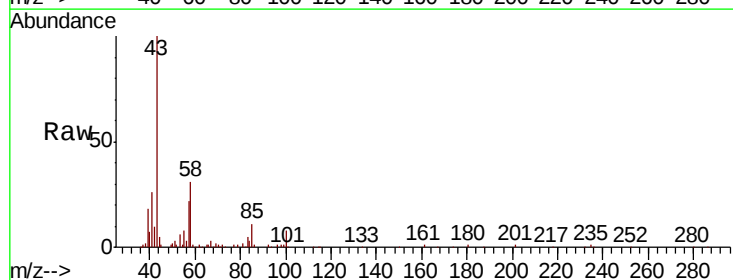
Instrument :
 MSVOA_L
 ClientSampleId :

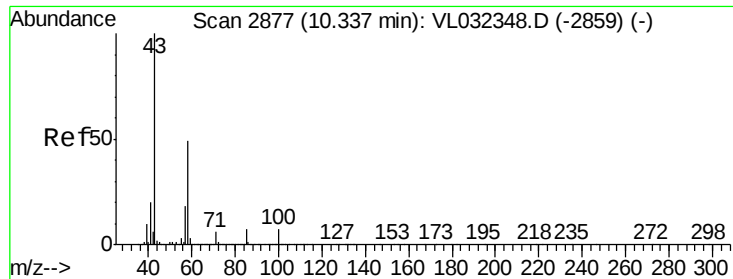
Tot Ion	57	Resp	76394
Ion	Ratio	Lower	Upper
57	100		
41	47.1	24.3	36.5#
56	49.4	25.7	38.5#



#50
 4-Methyl-2-Pentanone
 Concen: 0.370 ppbv
 RT: 8.94 min Scan# 2442
 Delta R.T. 0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion	43	Resp	127790
Ion	Ratio	Lower	Upper
43	100		
58	34.2	28.9	43.3

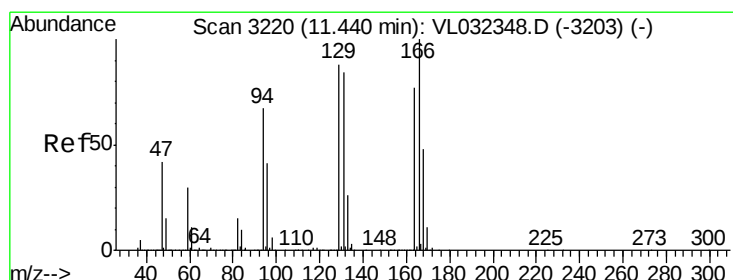
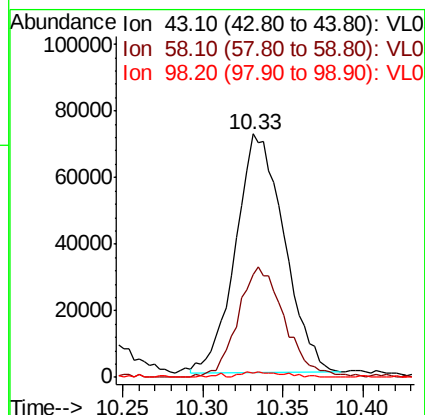
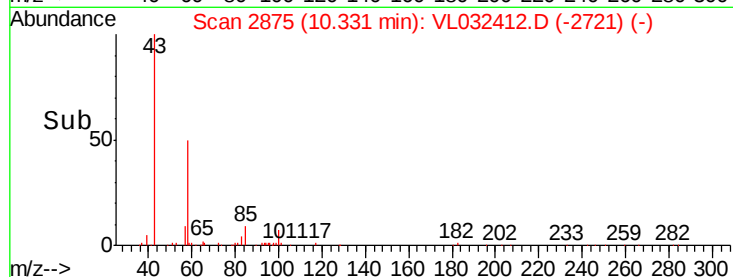
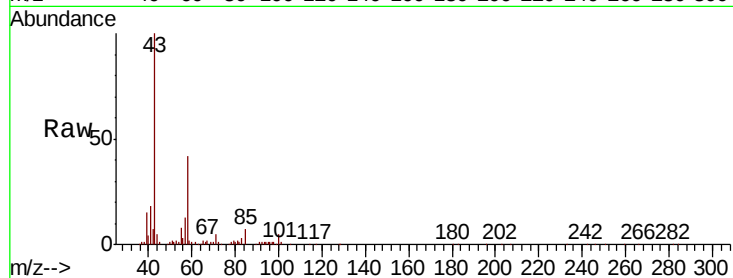




#51
2-Hexanone
Concen: 0.619 ppbv
RT: 10.33 min Scan# 2875
Delta R.T. -0.01 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

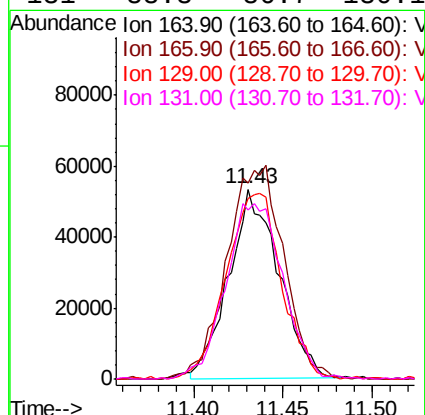
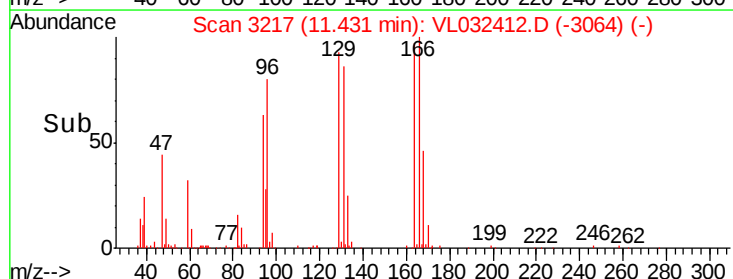
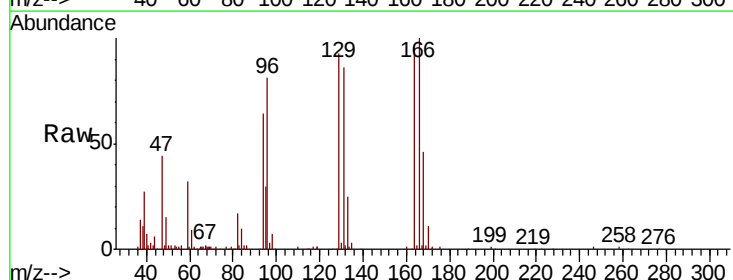
Instrument :
MSVOA_L
ClientSampleId :

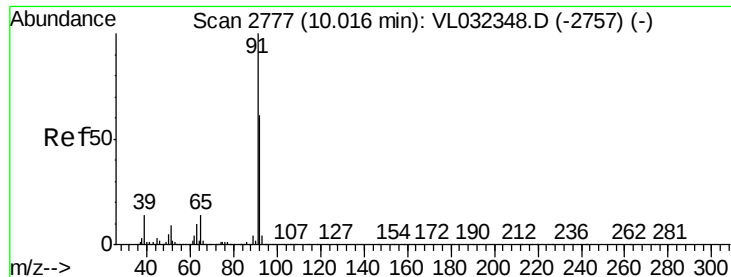
Tot Ion: 43 Resp: 149973
Ion Ratio Lower Upper
43 100
58 44.9 39.5 59.3
98 2.5 0.3 0.5#



#52
Tetrachloroethene
Concen: 1.191 ppbv
RT: 11.43 min Scan# 3217
Delta R.T. -0.01 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion: 164 Resp: 104573
Ion Ratio Lower Upper
164 100
166 102.5 103.5 155.3#
129 95.8 90.9 136.3
131 88.3 86.7 130.1





#53

Toluene

Concen: 3.001 ppbv

RT: 10.01 min Scan# 2775

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

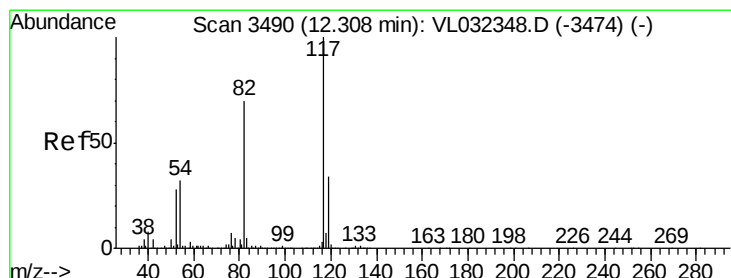
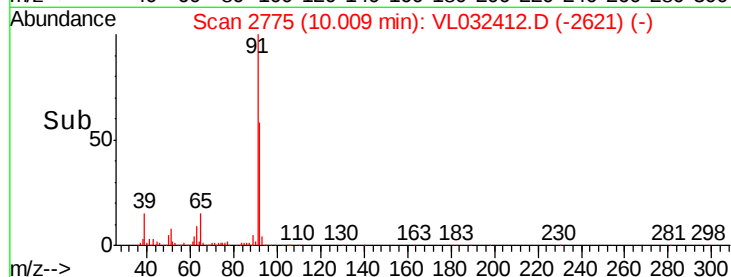
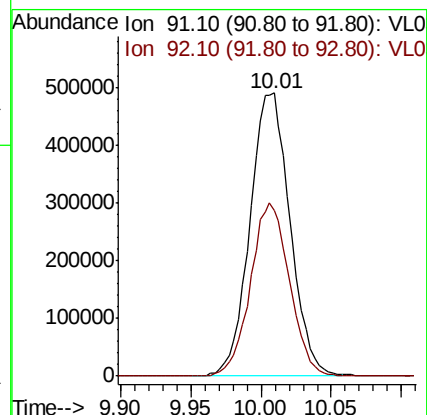
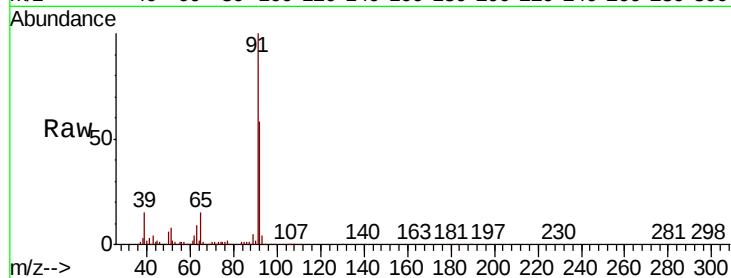
ClientSampled :

Tot Ion: 91 Resp: 979195

Ion Ratio Lower Upper

91 100

92 59.7 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3487

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

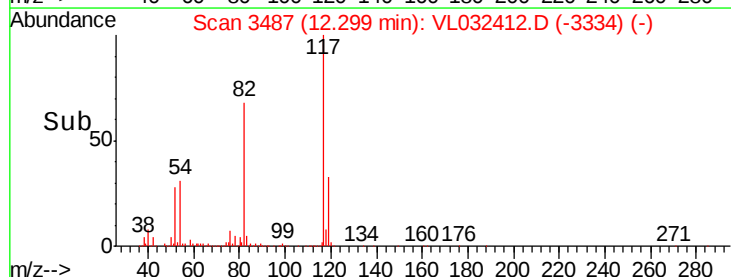
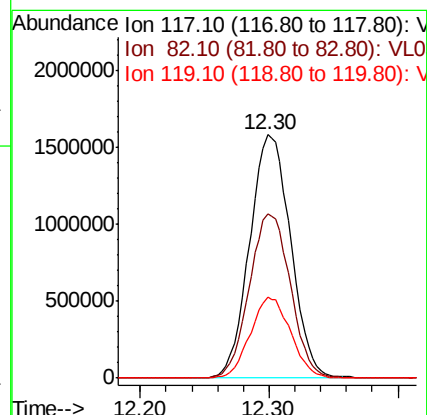
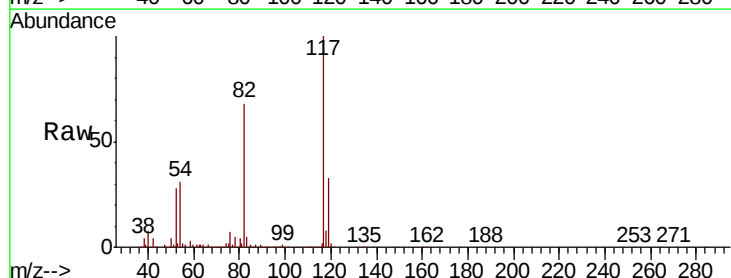
Tgt Ion: 117 Resp: 3505078

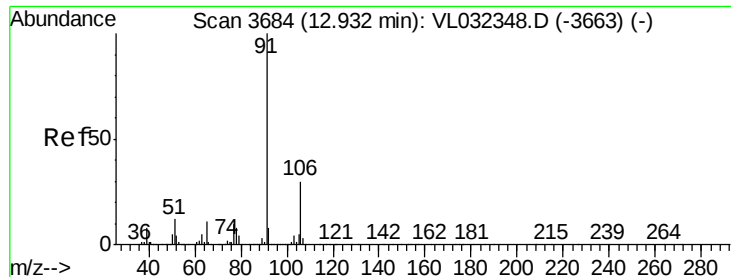
Ion Ratio Lower Upper

117 100

82 67.8 55.1 82.7

119 32.7 46.0 69.0#





#58

Ethyl Benzene

Concen: 0.200 ppbv

RT: 12.93 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

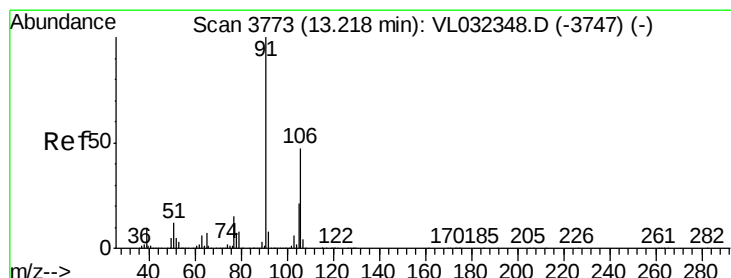
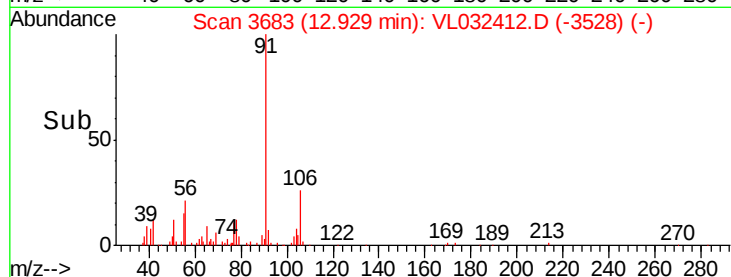
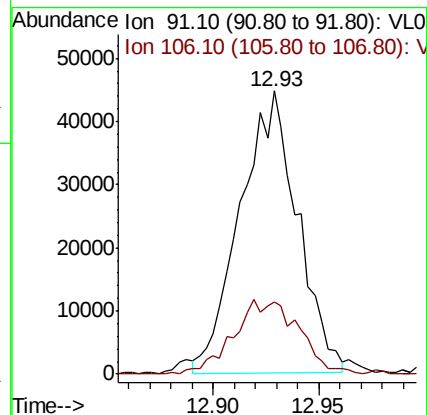
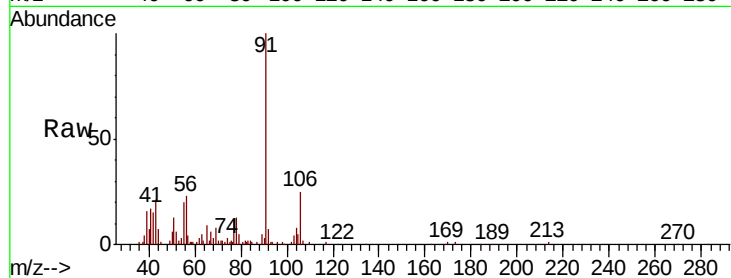
ClientSampled :

Tot Ion: 91 Resp: 84547

Ion Ratio Lower Upper

91 100

106 24.7 24.3 36.5



#59

m/p-Xylene

Concen: 0.628 ppbv

RT: 13.18 min Scan# 3762

Delta R.T. -0.04 min

Lab File: VL032412.D

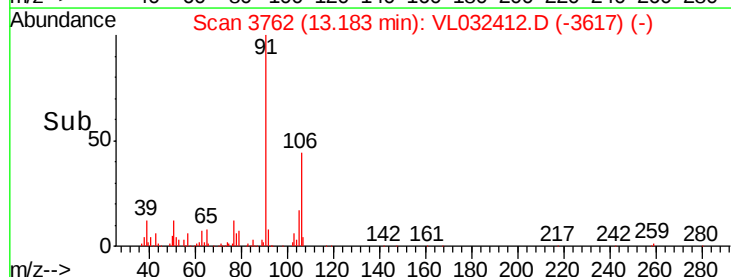
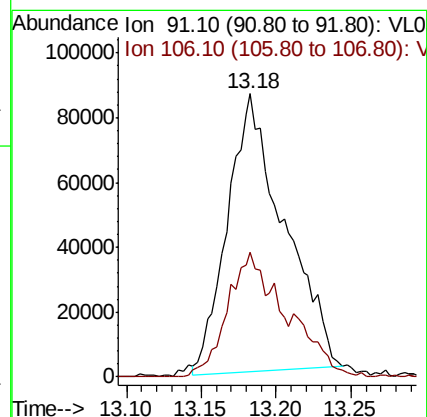
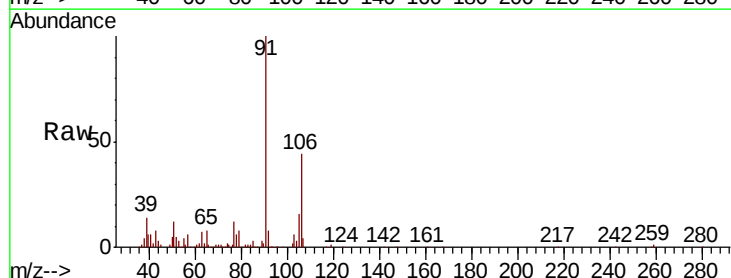
Acq: 20 Aug 2018 20:03

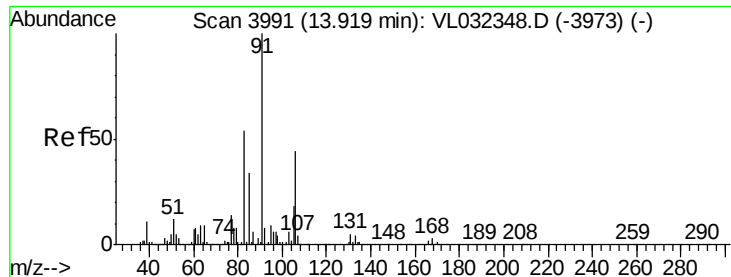
Tgt Ion: 91 Resp: 225147

Ion Ratio Lower Upper

91 100

106 46.9 37.0 55.4





#60

o-Xylene

Concen: 0.198 ppbv

RT: 13.91 min Scan# 3987

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

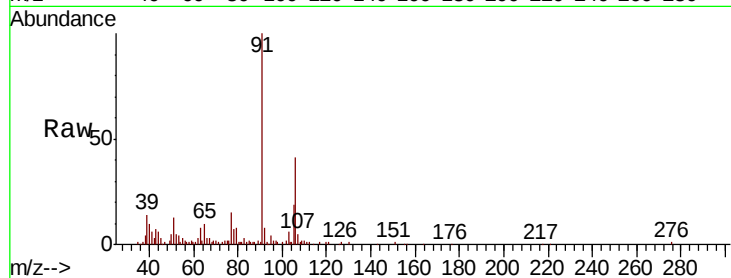
ClientSampled :

Tot Ion: 91 Resp: 69542

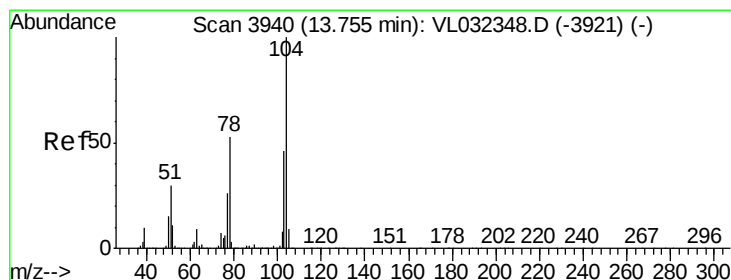
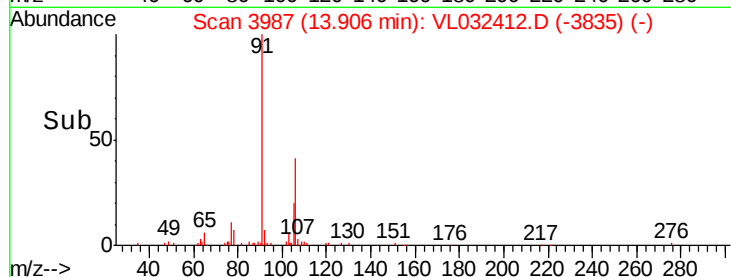
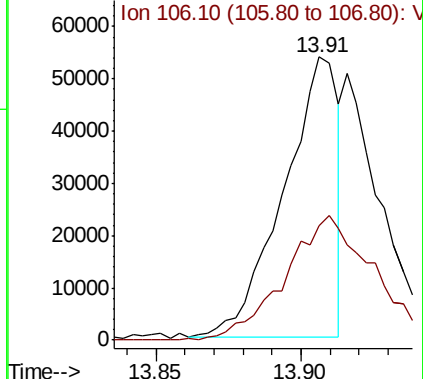
Ion Ratio Lower Upper

91 100

106 73.4 22.3 66.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0



#61

Styrene

Concen: 0.060 ppbv

RT: 13.74 min Scan# 3936

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

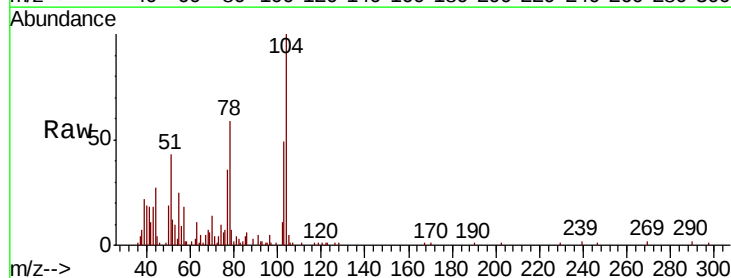
Tgt Ion: 104 Resp: 14867

Ion Ratio Lower Upper

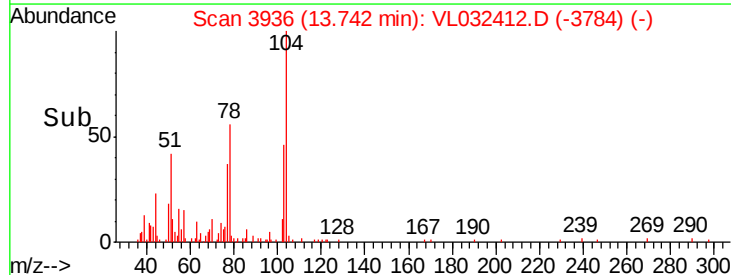
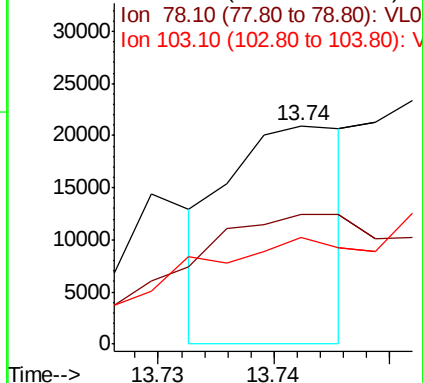
104 100

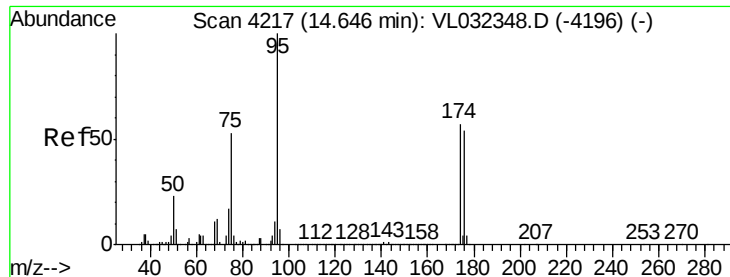
78 197.7 42.6 64.0#

103 0.0 38.0 57.0#



Abundance Ion 104.10 (103.80 to 104.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.099 ppbv

RT: 14.64 min Scan# 4215

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

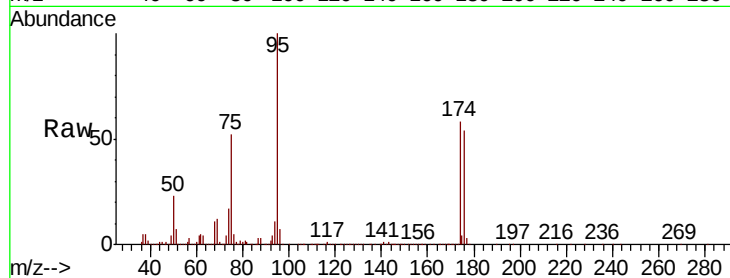
Tot Ion: 95 Resp: 2700635

Ion Ratio Lower Upper

95 100

174 58.4 46.2 69.4

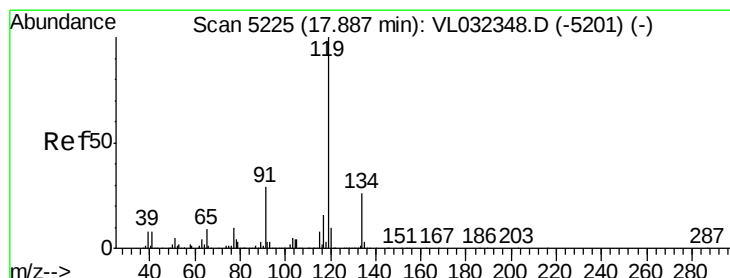
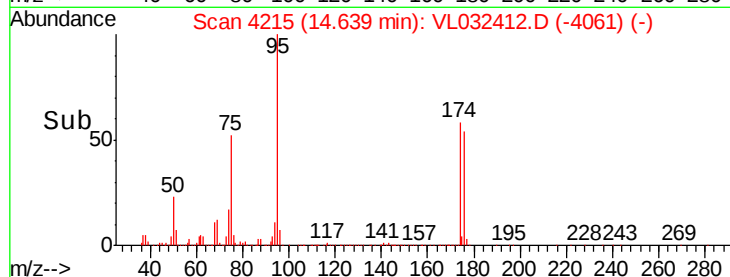
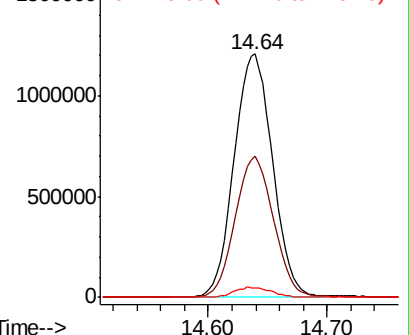
175 4.1 3.4 5.0



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: 0.041 ppbv

RT: 17.87 min Scan# 5221

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

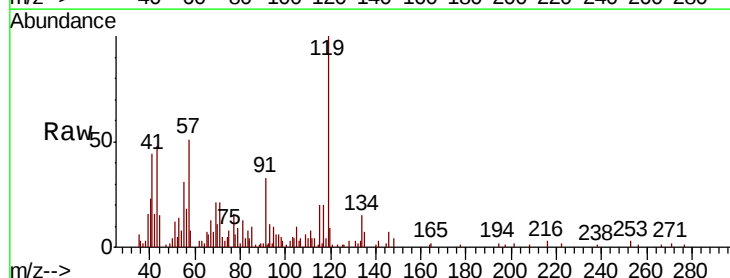
Tgt Ion: 119 Resp: 20077

Ion Ratio Lower Upper

119 100

134 0.0 20.4 30.6#

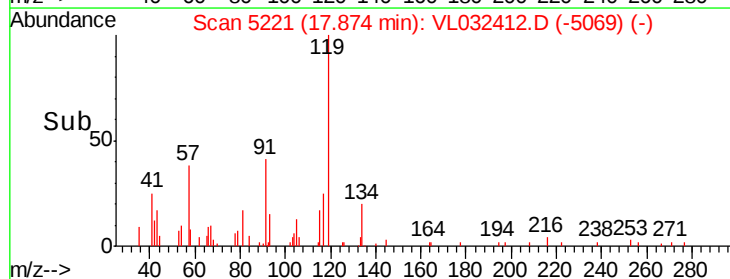
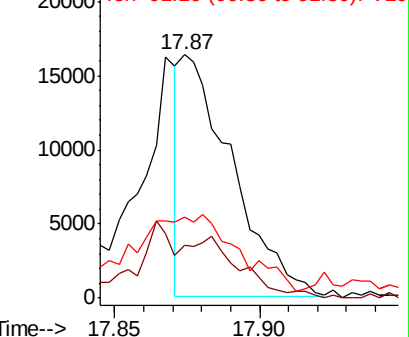
91 69.1 23.6 35.4#

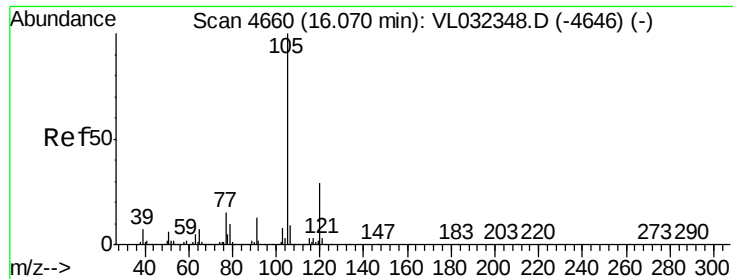


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#72

4-Ethyltoluene

Concen: 0.035 ppbv

RT: 16.06 min Scan# 4658

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 13628

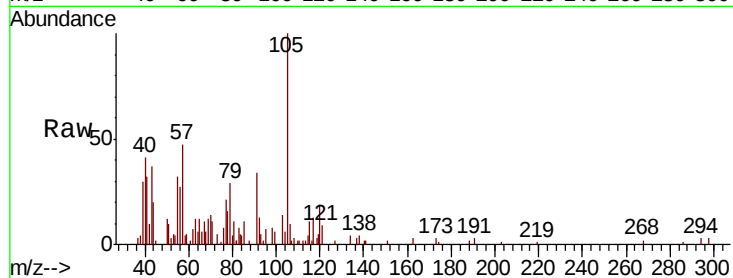
Ion Ratio Lower Upper

105 100

120 53.7 23.4 35.0#

91 63.3 10.0 15.0#

77 48.3 11.3 16.9#

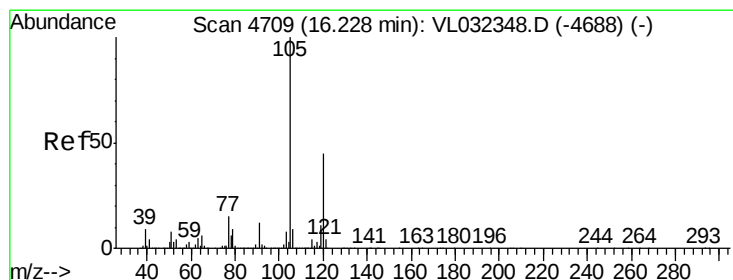
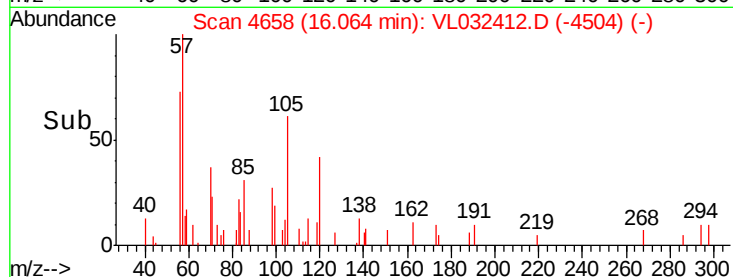
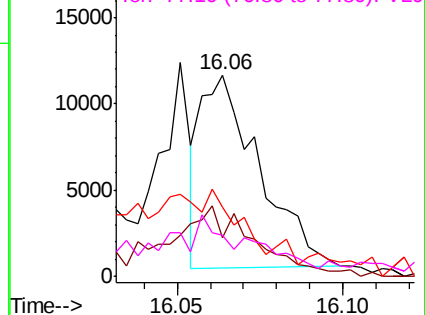


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.043 ppbv

RT: 16.22 min Scan# 4706

Delta R.T. -0.01 min

Lab File: VL032412.D

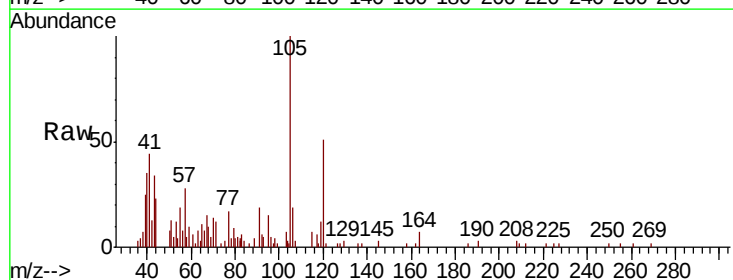
Acq: 20 Aug 2018 20:03

Tgt Ion:105 Resp: 16428

Ion Ratio Lower Upper

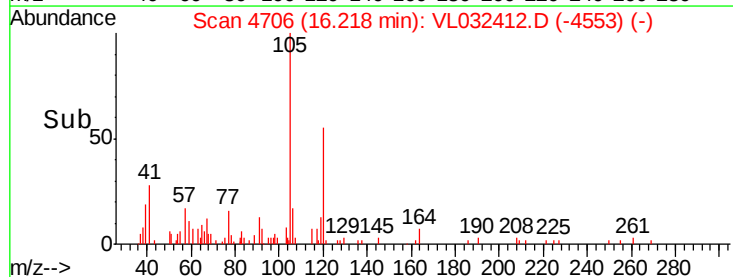
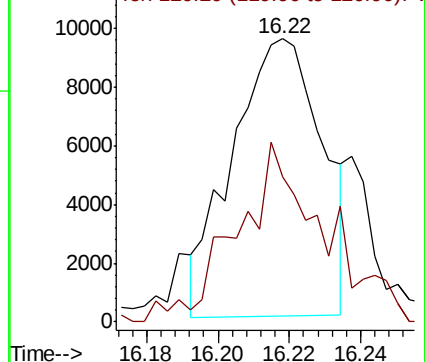
105 100

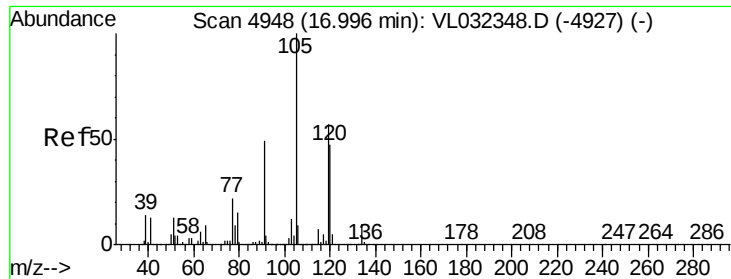
120 61.7 36.3 54.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

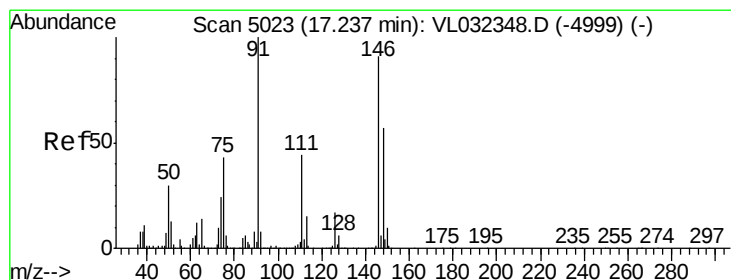
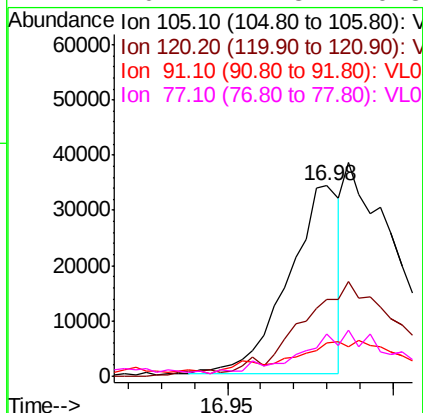
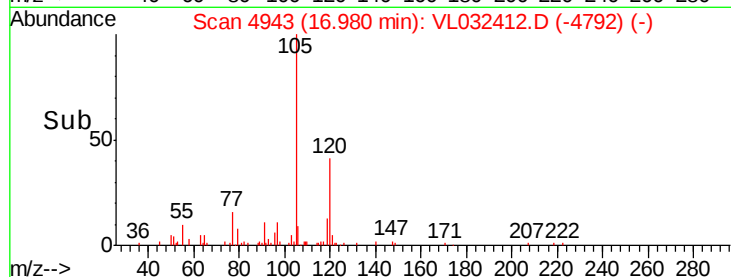
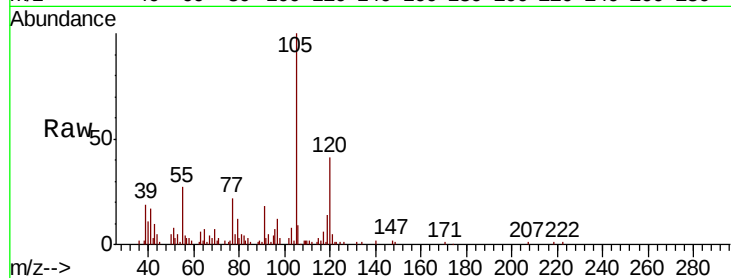




#74
 1,2,4-Trimethylbenzene
 Concen: 0.091 ppbv
 RT: 16.98 min Scan# 4943
 Delta R.T. -0.02 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

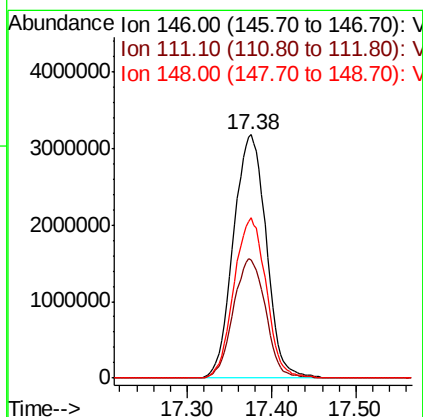
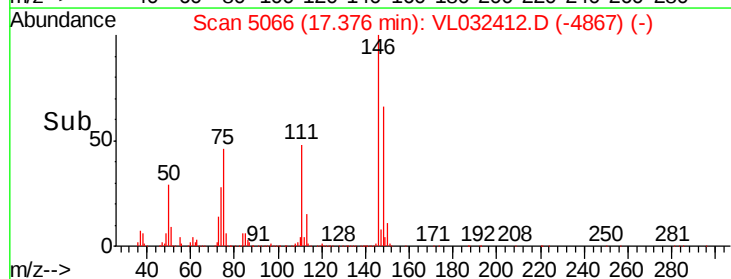
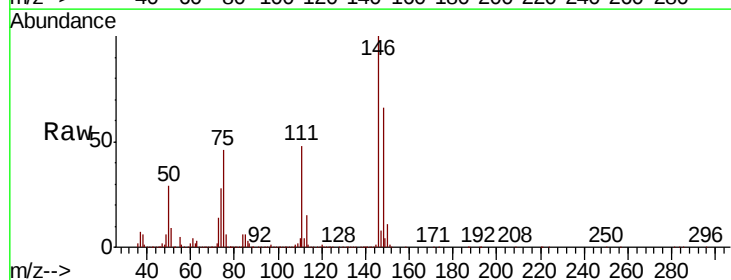
Instrument :
 MSVOA_L
 ClientSampleId :

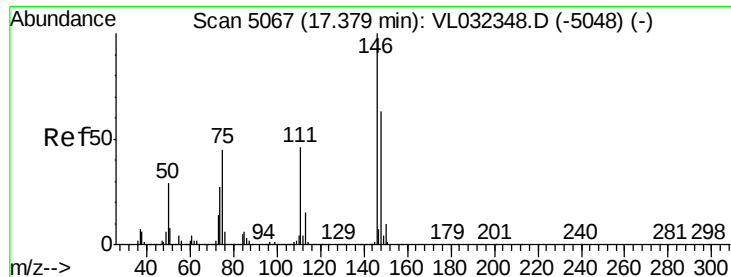
Tot Ion:	105	Resp:	36648
Ion	Ratio	Lower	Upper
105	100		
120	38.2	37.6	56.4
91	13.4	39.9	59.9#
77	20.2	17.8	26.8



#75
 1,3-Dichlorobenzene
 Concen: 35.643 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. 0.14 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion:	146	Resp:	8609275
Ion	Ratio	Lower	Upper
146	100		
111	48.2	24.6	73.8
148	64.9	32.0	96.0





#76

1,4-Dichlorobenzene

Concen: 37.629 ppbv

RT: 17.38 min Scan# 5066

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

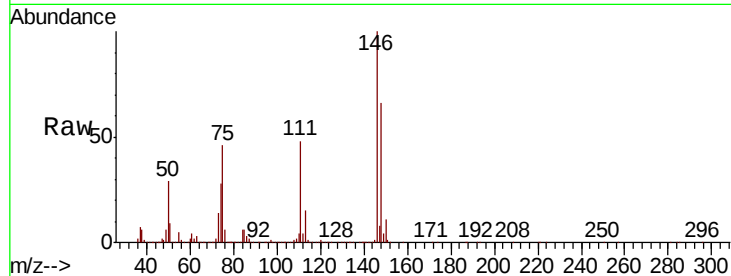
Tot Ion:146 Resp: 8609275

Ion Ratio Lower Upper

146 100

111 48.2 23.8 71.4

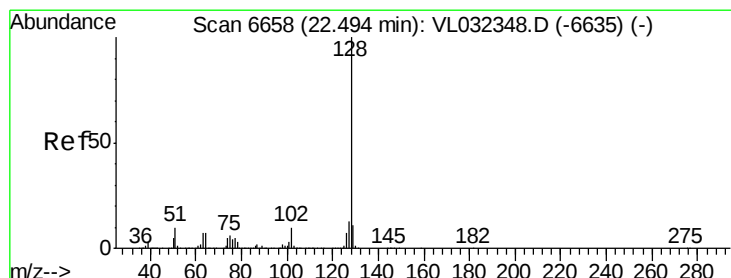
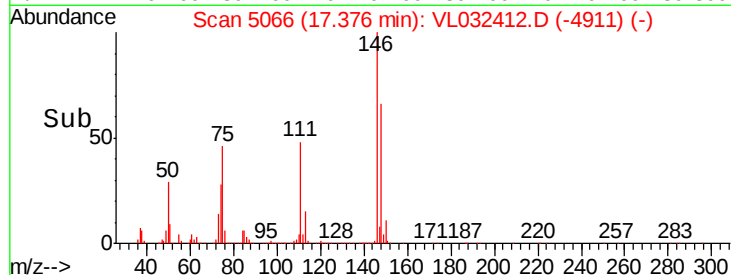
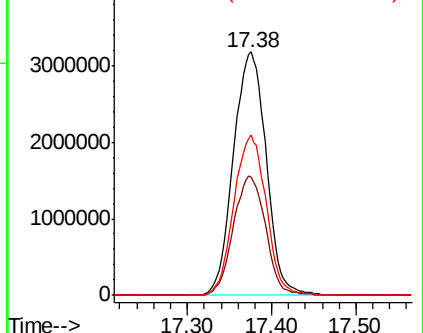
148 64.9 32.2 96.6



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: 0.553 ppbv

RT: 22.49 min Scan# 6656

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

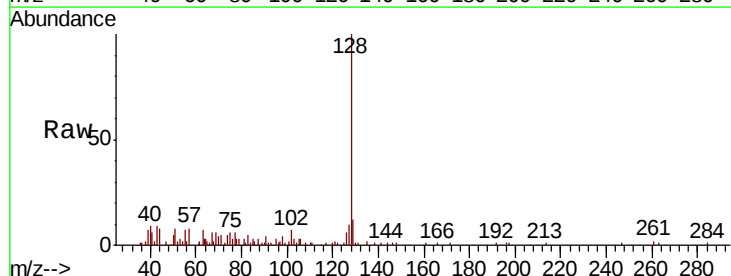
Tgt Ion:128 Resp: 87768

Ion Ratio Lower Upper

128 100

127 9.9 10.3 15.5#

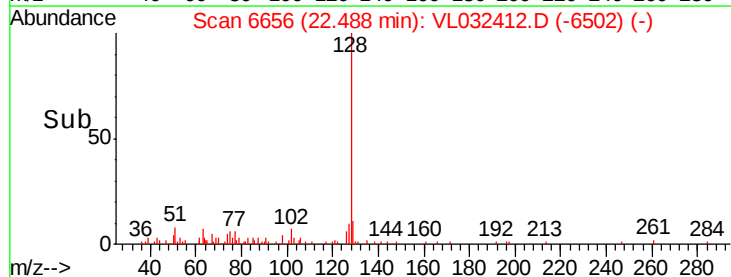
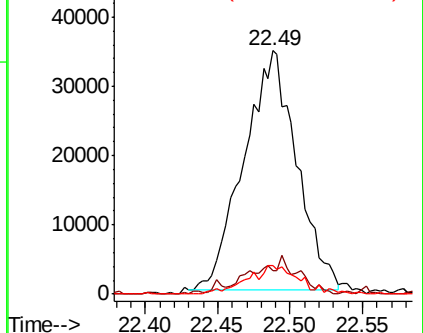
129 12.0 8.6 13.0

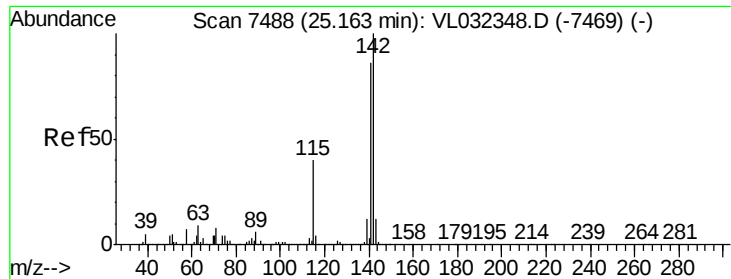


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.078 ppbv

RT: 25.16 min Scan# 7487

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

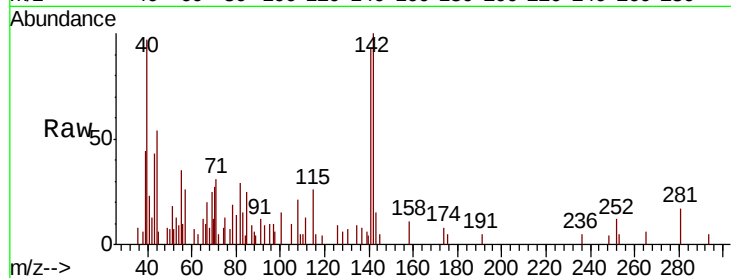
Tot Ion:142 Resp: 6273

Ion Ratio Lower Upper

142 100

141 89.7 66.7 100.1

115 54.1 31.0 46.6#



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

