

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036617.D
 Acq On : 1 Apr 2021 1:28
 Operator : SY/AP
 Sample : M1841-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:31:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1460296	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3403878	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	3344565	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2653481	9.95	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	44313	0.186 ppbv	# 87
3) Chlorodifluoromethane	2.97	51	2126646	7.795 ppbv	# 60
4) Chloromethane	3.14	50	18909	0.196 ppbv	# 55
9) Propene	3.02	41	201214	2.313 ppbv	# 89
10) Heptane	8.14	43	365743	1.651 ppbv	# 98
11) Trichlorofluoromethane	3.96	101	80168	0.330 ppbv	# 95
12) 1,1,2-Trichlorotrifluoroet	4.50	101	3322	0.021 ppbv	# 11
13) Ethanol	3.62	45	5219493	503.920 ppbv	# 93
15) Acetone	3.85	43	19853794	138.135 ppbv	# 71
16) 1,3-Butadiene	3.32	39	668700	6.683 ppbv	# 22
17) tert-Butyl alcohol	4.31	59	1550237	12.390 ppbv	# 98
19) Isopropyl Alcohol	3.99	45	10963454	138.666 ppbv	# 1
20) Methylene Chloride	4.36	84	104755	1.557 ppbv	# 94
21) Allyl Chloride	4.36	41	12386	0.108 ppbv	# 17
23) Vinyl Acetate	5.08	43	178370	0.726 ppbv	# 85
25) Ethyl Acetate	5.70	43	1085811	3.178 ppbv	# 81
26) Hexane	5.70	57	1311561	8.271 ppbv	# 50
27) Carbon Disulfide	4.56	76	37533	0.240 ppbv	# 57
28) Methyl tert-Butyl Ether	5.05	73	23170	0.124 ppbv	# 52
29) Chloroform	5.77	83	22840	0.090 ppbv	# 89
30) Cyclohexane	7.15	84	35392	0.275 ppbv	# 81
32) 1,1,1-Trichloroethane	6.54	97	40475	0.158 ppbv	# 97
34) 2-Butanone	5.26	43	3442308	20.718 ppbv	# 98
35) Carbon Tetrachloride	7.04	117	11939	0.046 ppbv	# 61
36) Benzene	6.91	78	460344	1.466 ppbv	# 94
39) 1,2-Dichloropropane	7.19	63	946342	7.431 ppbv	# 23
40) 1,4-Dioxane	7.85	88	1245	0.042 ppbv	# 1
41) Tetrahydrofuran	6.08	42	38603	0.504 ppbv	# 50
42) Bromodichloromethane	7.81	83	6771	0.027 ppbv	# 38
43) Methyl Methacrylate	8.04	69	8076	0.077 ppbv	# 1
44) 2,2,4-Trimethylpentane	7.89	57	358485	0.649 ppbv	# 30
50) 4-Methyl-2-Pentanone	8.77	43	35886	0.149 ppbv	# 40
51) 2-Hexanone	10.13	43	1449137	11.944 ppbv	# 37
52) Tetrachloroethene	11.24	164	46972	0.406 ppbv	# 85
53) Toluene	9.83	91	2634448	7.880 ppbv	# 99
56) 1,1,1,2-Tetrachloroethane	11.72	131	126207	0.834 ppbv	# 1
57) Chlorobenzene	12.15	112	6274	0.022 ppbv	# 53
58) Ethyl Benzene	12.73	91	1749305	3.595 ppbv	# 97
59) m/p-Xylene	12.99	91	5843338	13.768 ppbv	# 96
60) o-Xylene	13.72	91	2737180	6.670 ppbv	# 100
61) Styrene	13.55	104	111797	0.542 ppbv	# 94

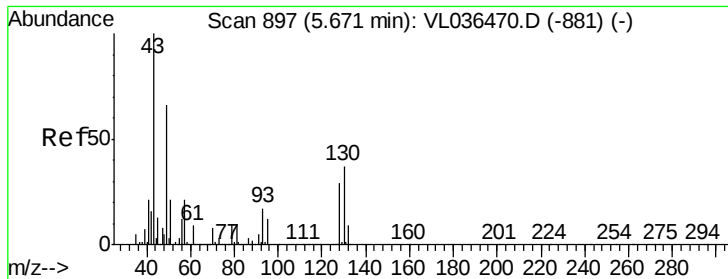
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036617.D
 Acq On : 1 Apr 2021 1:28
 Operator : SY/AP
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.69	105	221197	0.400	ppbv	99
64) n-propylbenzene	15.59	120	160651	1.189	ppbv	79
65) tert-Butylbenzene	16.79	119	388574	0.811	ppbv #	72
66) Benzyl Chloride	17.02	91	28639	0.541	ppbv #	1
67) sec-Butylbenzene	17.32	105	66007	0.098	ppbv #	59
69) p-Isopropyltoluene	17.68	119	117659	0.223	ppbv	95
70) n-Butylbenzene	18.59	91	255941	0.467	ppbv #	45
71) 2-Chlorotoluene	15.34	91	30645	0.074	ppbv	67
72) 4-Ethyltoluene	15.86	105	1085553	2.414	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	1160723	2.766	ppbv	97
74) 1,2,4-Trimethylbenzene	16.79	105	3419705	7.614	ppbv #	70
75) 1,3-Dichlorobenzene	17.05	146	7839	0.031	ppbv #	1
79) Naphthalene	22.24	128	37336	0.142	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :
MSVOA_L
ClientSampleId :

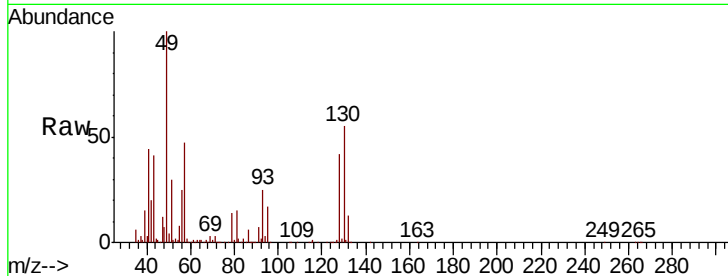
Tot Ion: 49 Resp: 1460296

Ion Ratio Lower Upper

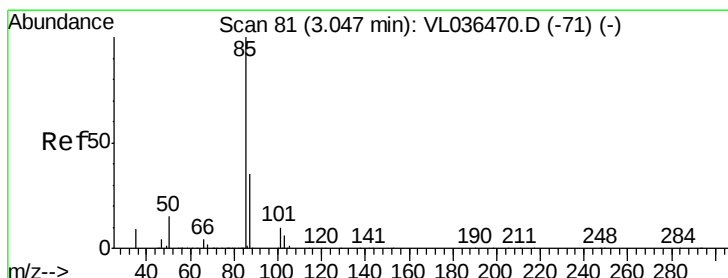
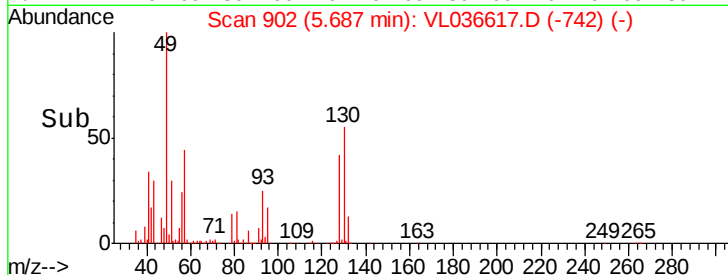
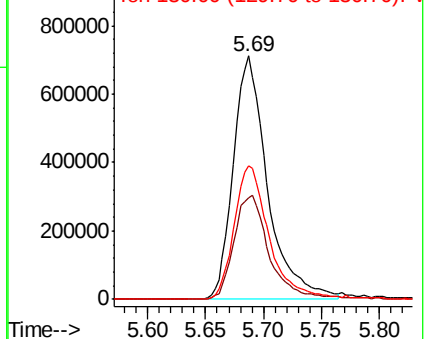
49 100

128 44.5 23.5 70.6

130 56.8 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.186 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036617.D

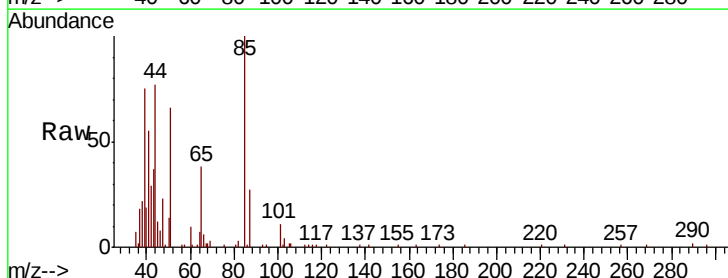
Acq: 1 Apr 2021 1:28

Tgt Ion: 85 Resp: 44313

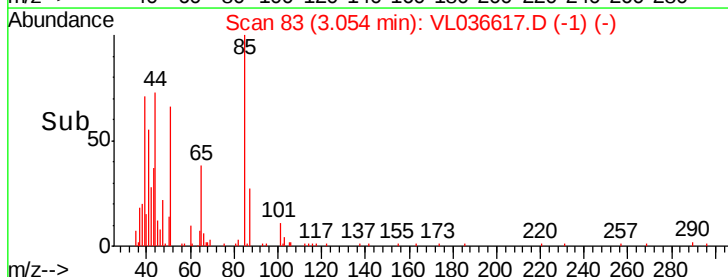
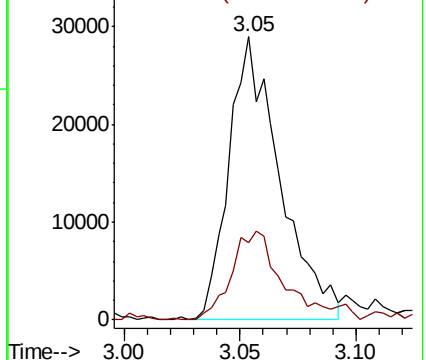
Ion Ratio Lower Upper

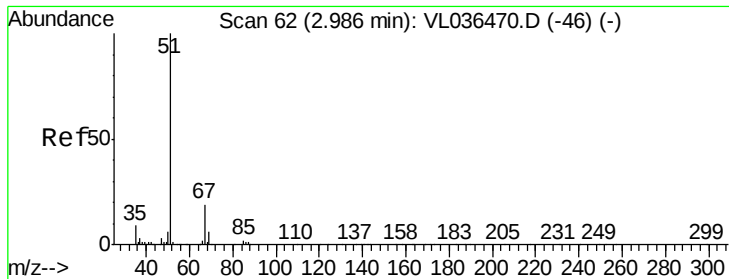
85 100

87 27.3 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.795 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

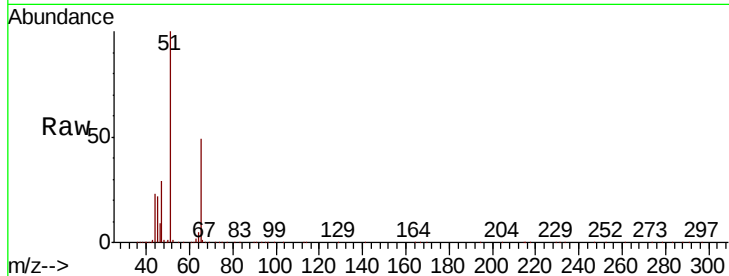
ClientSampleId :

Tot Ion: 51 Resp: 2126646

Ion Ratio Lower Upper

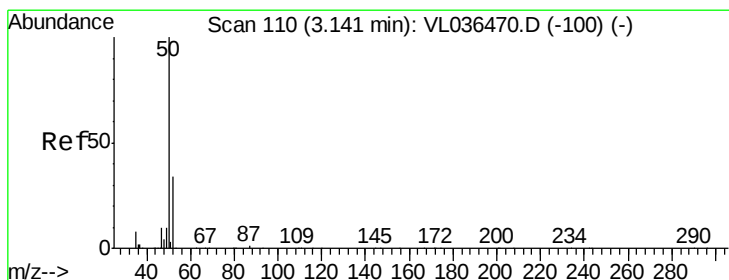
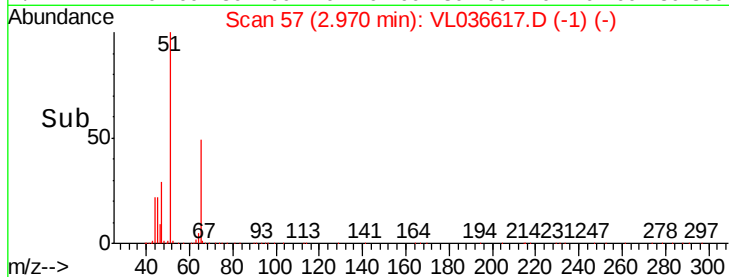
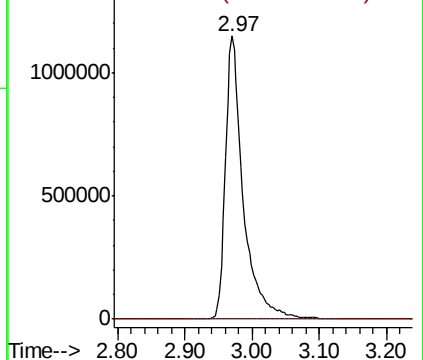
51 100

67 0.4 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.196 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036617.D

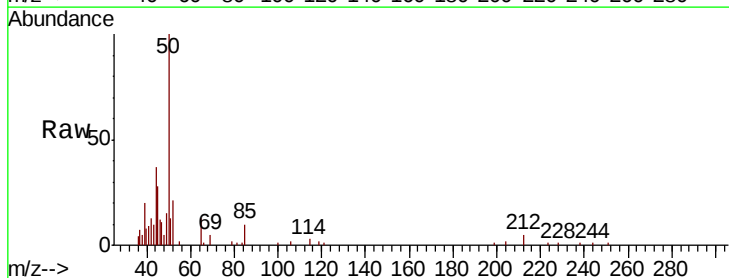
Acq: 1 Apr 2021 1:28

Tgt Ion: 50 Resp: 18909

Ion Ratio Lower Upper

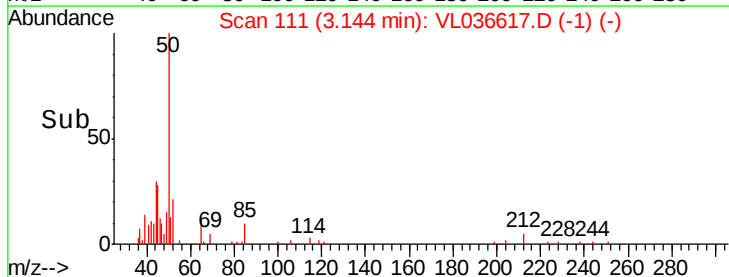
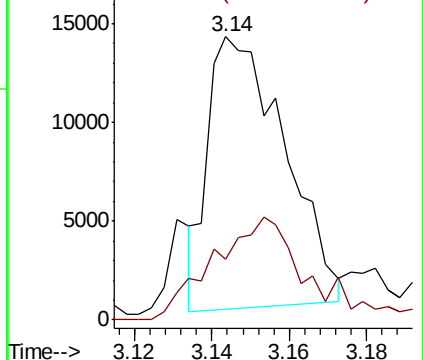
50 100

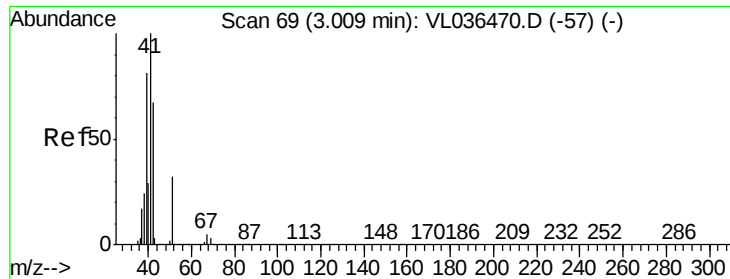
52 8.0 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.313 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

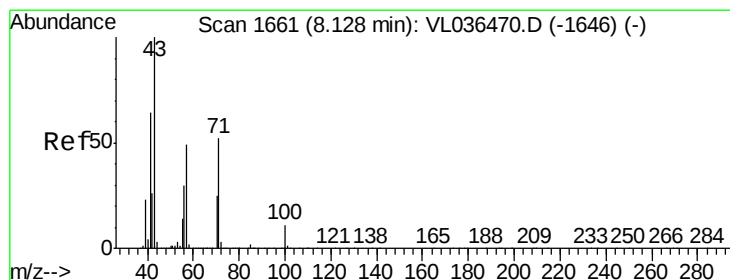
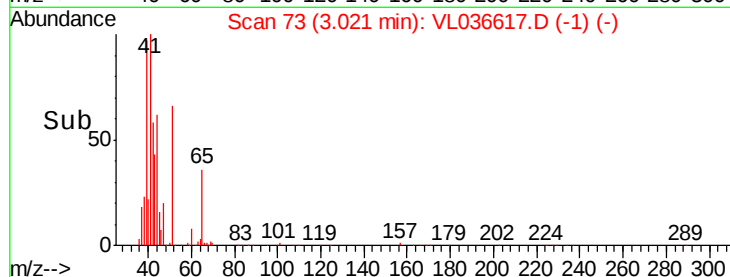
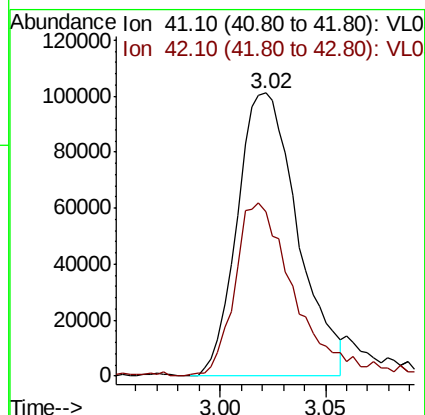
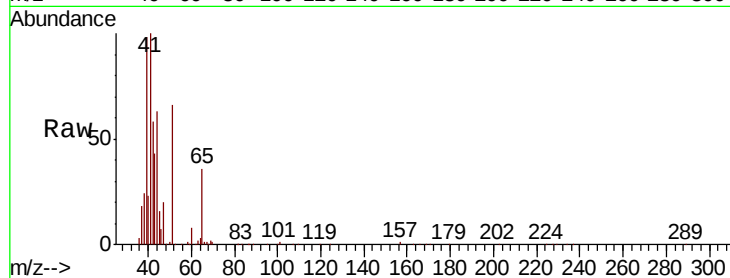
ClientSampleId :

Tot Ion: 41 Resp: 201214

Ion Ratio Lower Upper

41 100

42 61.9 57.0 85.4



#10

Heptane

Concen: 1.651 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.02 min

Lab File: VL036617.D

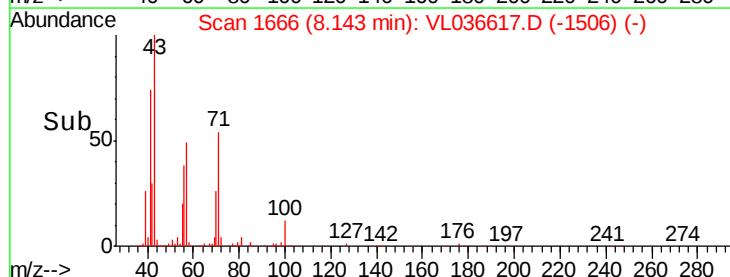
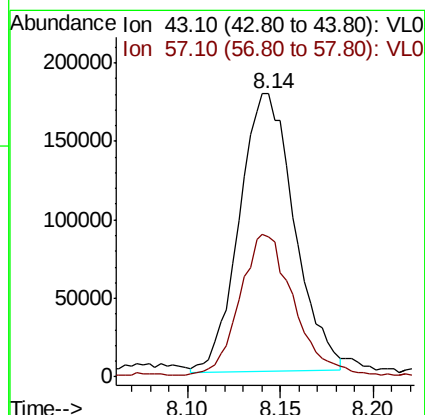
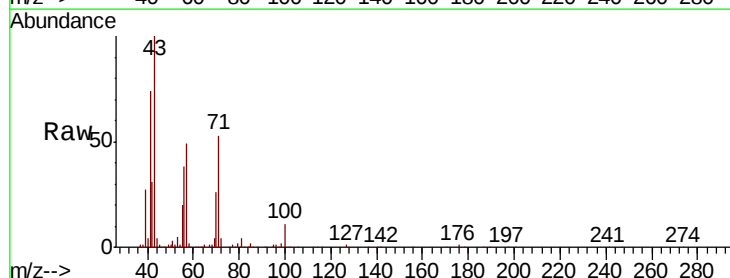
Acq: 1 Apr 2021 1:28

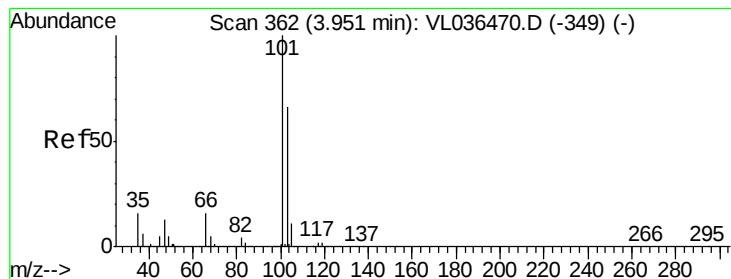
Tgt Ion: 43 Resp: 365743

Ion Ratio Lower Upper

43 100

57 50.3 39.0 58.6





#11

Trichlorofluoromethane

Concen: 0.330 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

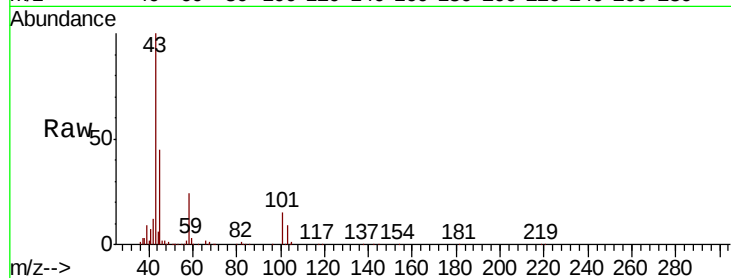
ClientSampleId :

Tot Ion:101 Resp: 80168

Ion Ratio Lower Upper

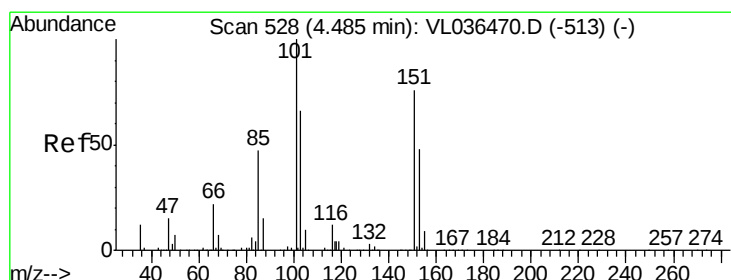
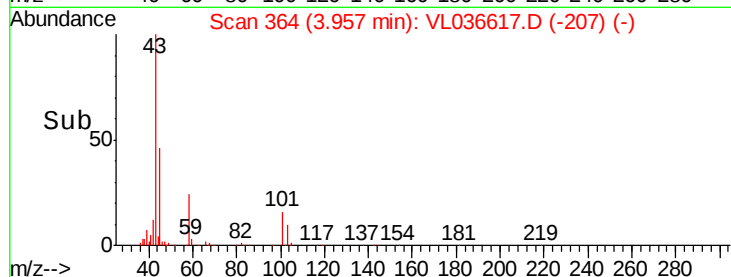
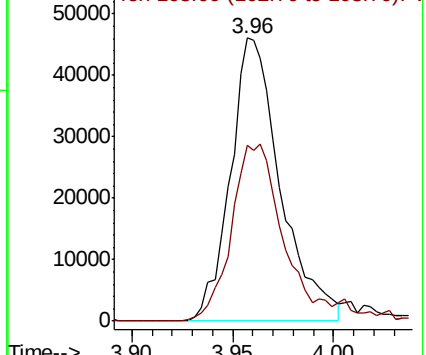
101 100

103 61.7 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.021 ppbv

RT: 4.50 min Scan# 533

Delta R.T. 0.02 min

Lab File: VL036617.D

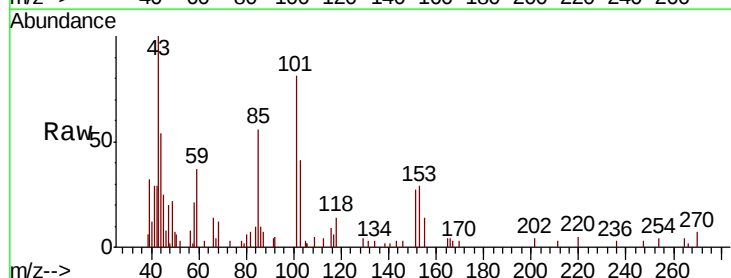
Acq: 1 Apr 2021 1:28

Tgt Ion:101 Resp: 3322

Ion Ratio Lower Upper

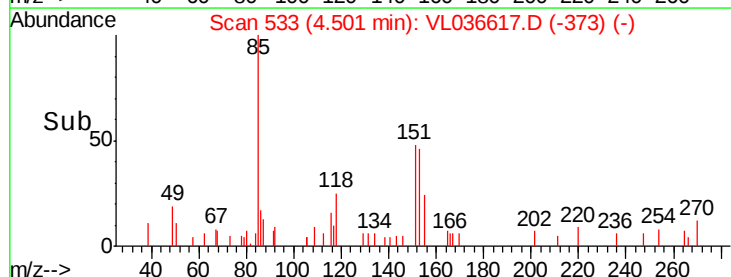
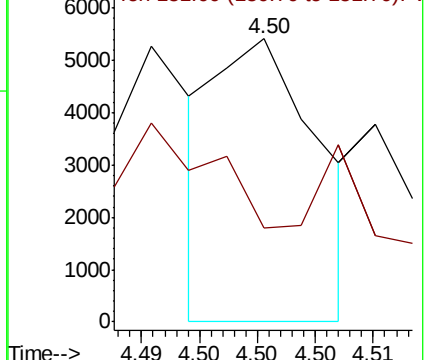
101 100

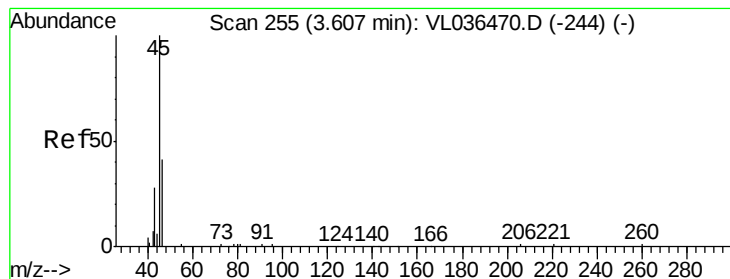
151 0.0 60.9 91.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 503.920 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

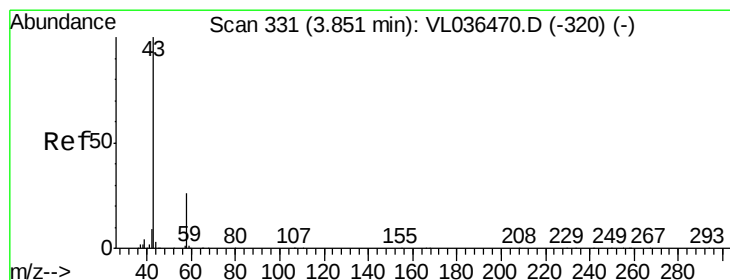
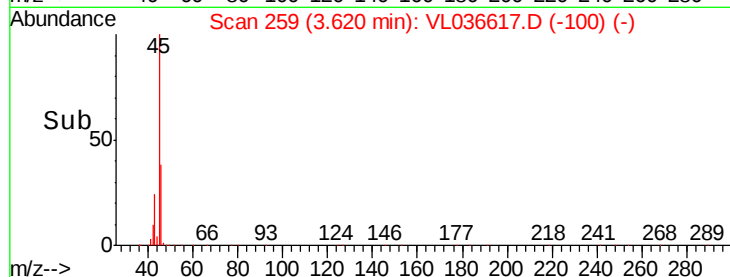
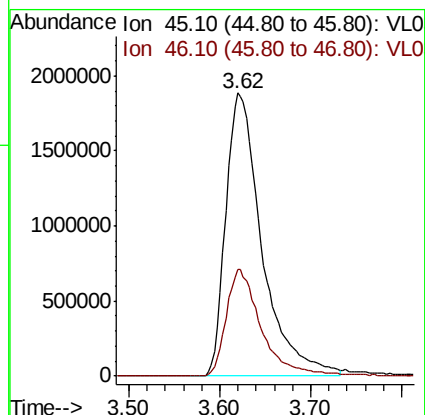
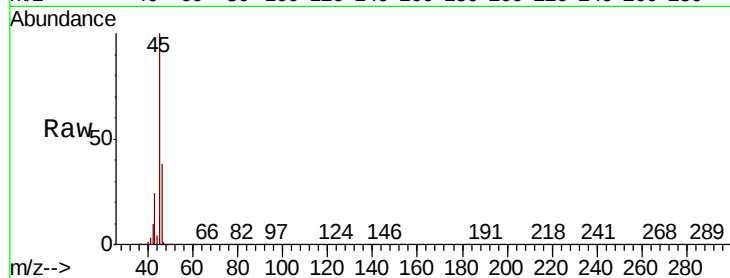
ClientSampleId :

Tot Ion: 45 Resp: 5219493

Ion Ratio Lower Upper

45 100

46 36.9 16.6 66.2



#15

Acetone

Concen: 138.135 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL036617.D

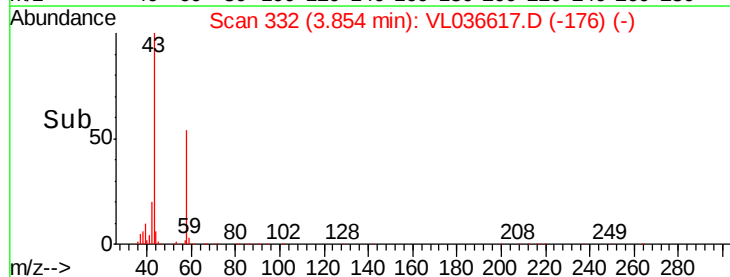
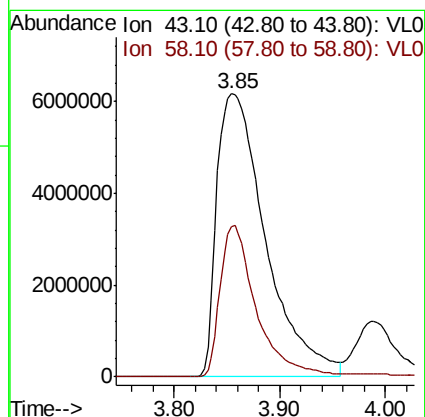
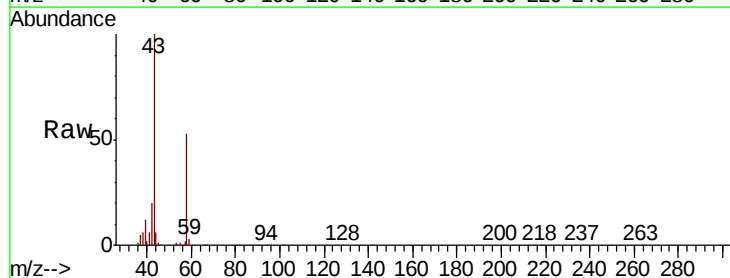
Acq: 1 Apr 2021 1:28

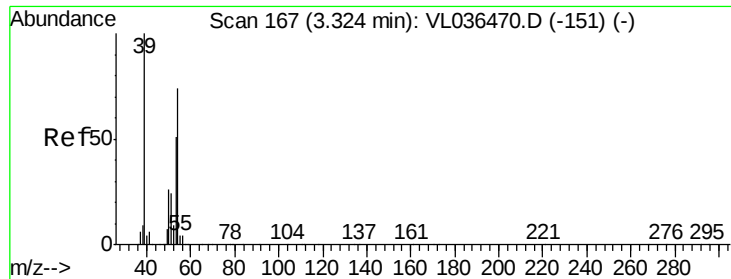
Tgt Ion: 43 Resp: 19853794

Ion Ratio Lower Upper

43 100

58 41.2 21.2 31.8#

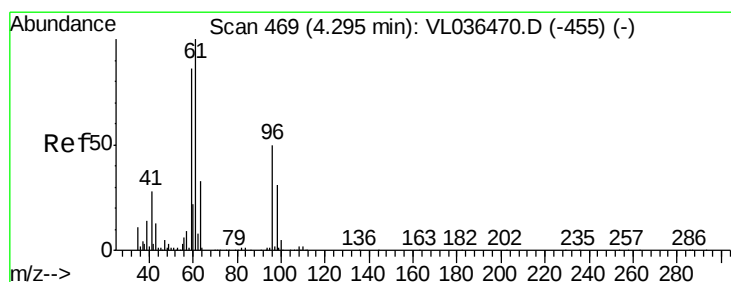
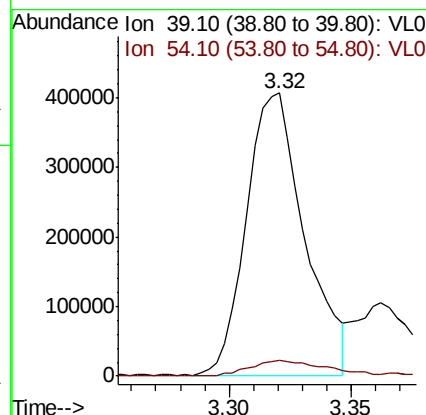
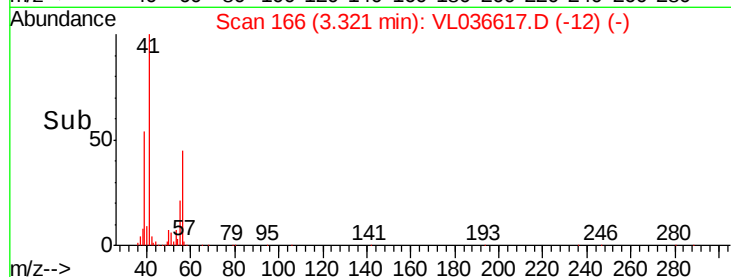
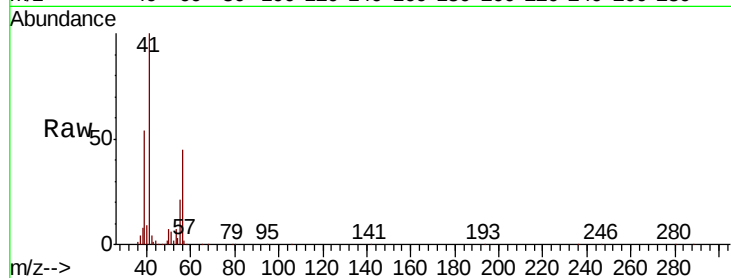




#16
 1,3-Butadiene
 Concen: 6.683 ppbv
 RT: 3.32 min Scan# 166
 Delta R.T. -0.00 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

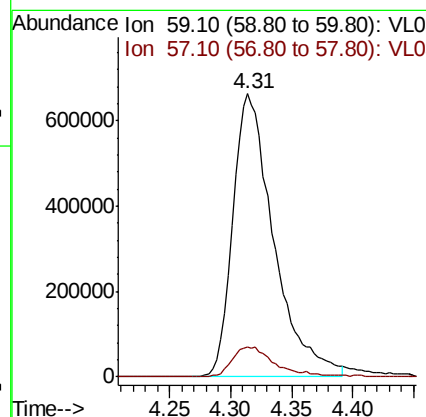
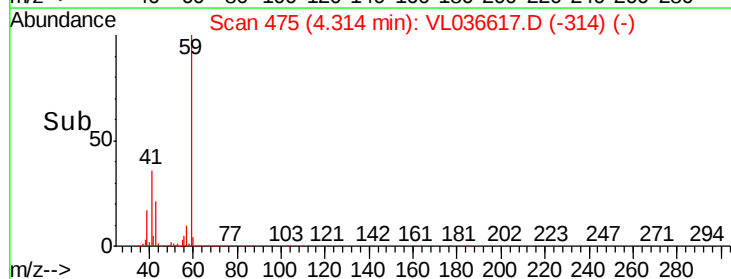
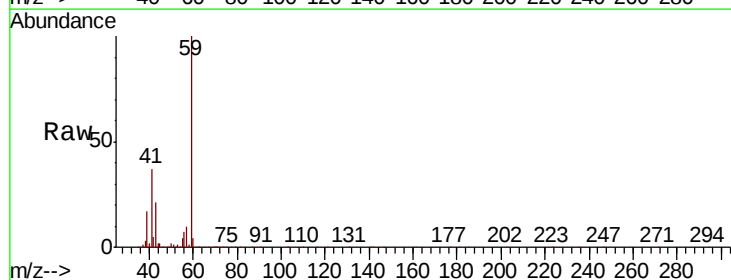
Instrument :
 MSVOA_L
 ClientSampleId :

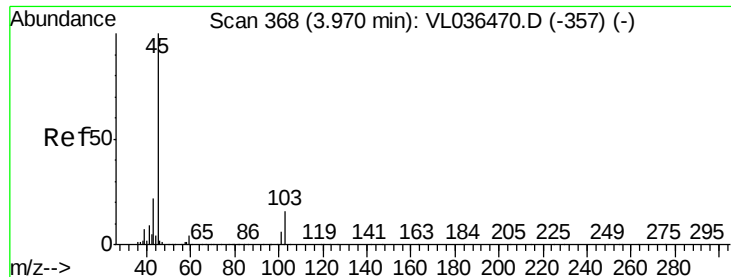
Tot Ion: 39 Resp: 668700
 Ion Ratio Lower Upper
 39 100
 54 7.9 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 12.390 ppbv
 RT: 4.31 min Scan# 475
 Delta R.T. 0.02 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Tgt Ion: 59 Resp: 1550237
 Ion Ratio Lower Upper
 59 100
 57 11.6 8.6 12.8





#19

Isopropyl Alcohol

Concen: 138.666 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

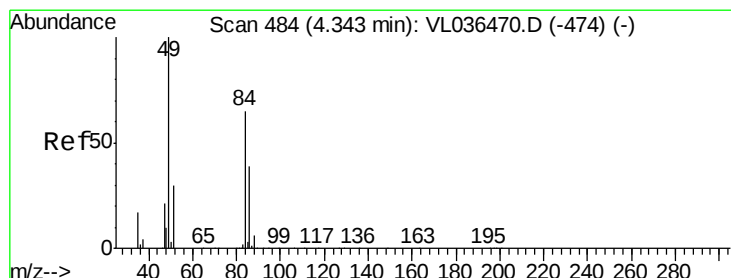
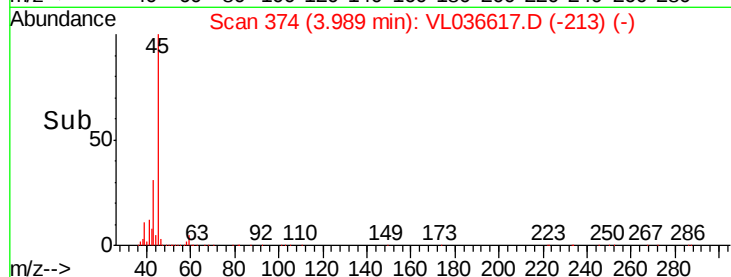
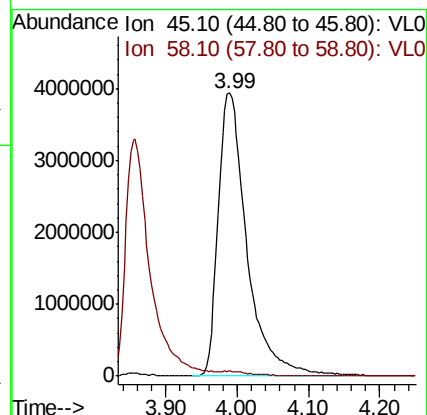
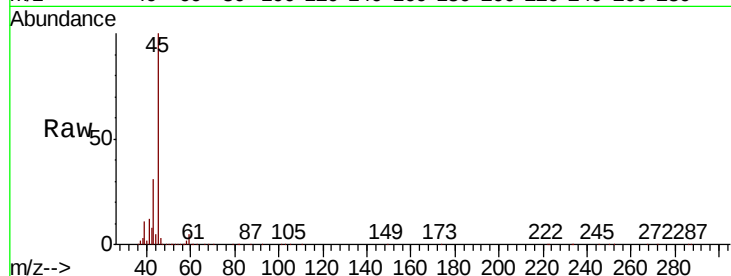
ClientSampled :

Tot Ion: 45 Resp:10963454

Ion Ratio Lower Upper

45 100

58 74.7 2.9 4.3#



#20

Methylene Chloride

Concen: 1.557 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Tgt Ion: 84 Resp: 104755

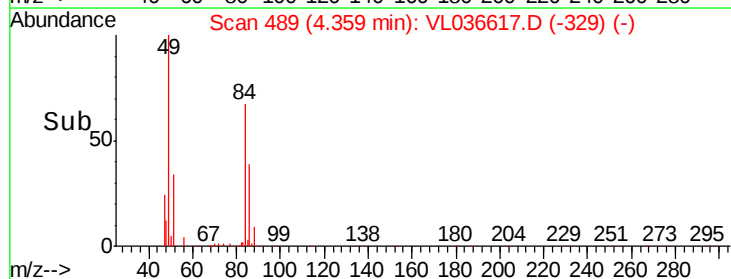
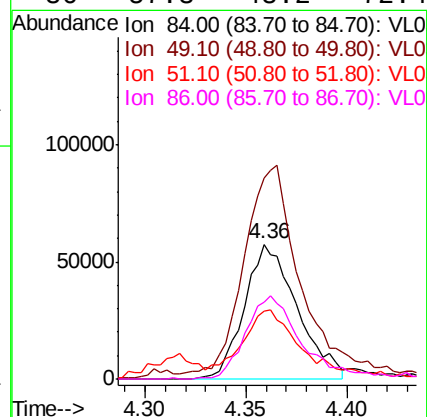
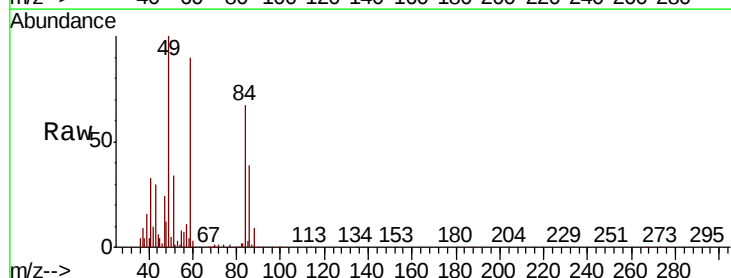
Ion Ratio Lower Upper

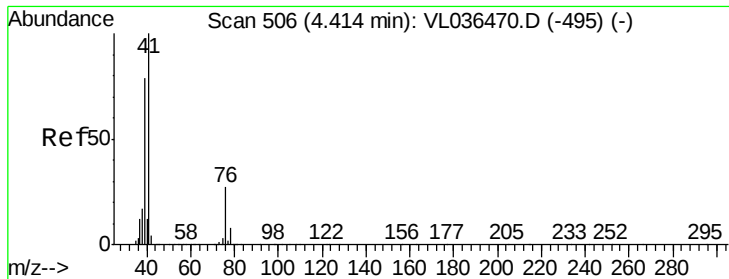
84 100

49 143.2 122.9 184.3

51 43.7 36.9 55.3

86 57.3 48.2 72.4





#21

Allvl Chloride

Concen: 0.108 ppbv

RT: 4.36 min Scan# 490

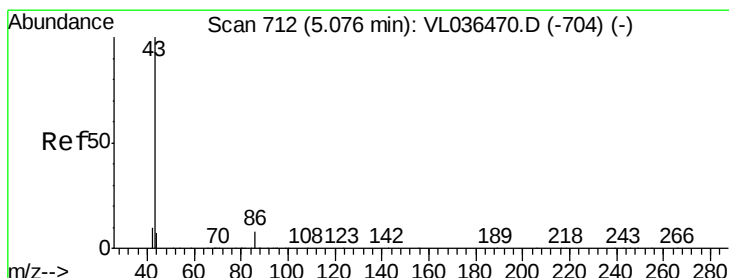
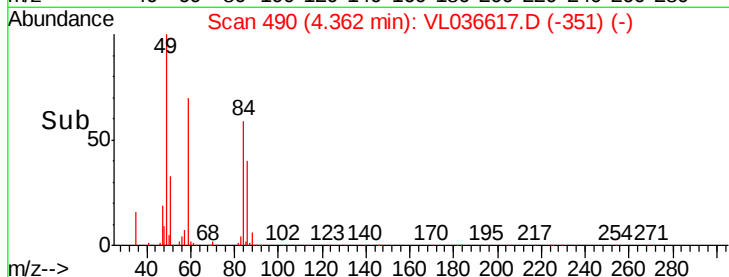
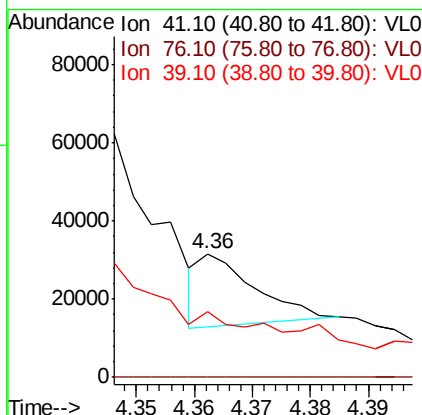
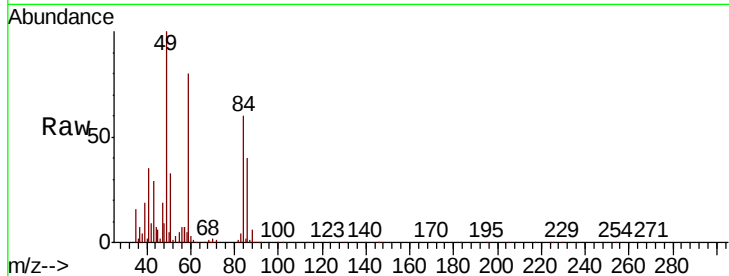
Delta R.T. -0.05 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	41	Resp:	12386
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	0.0	67.3	100.9#



#23

Vinyl Acetate

Concen: 0.726 ppbv

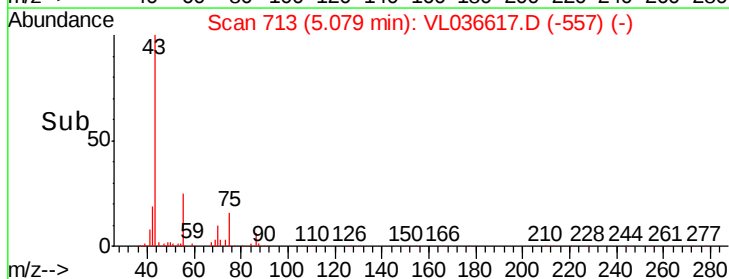
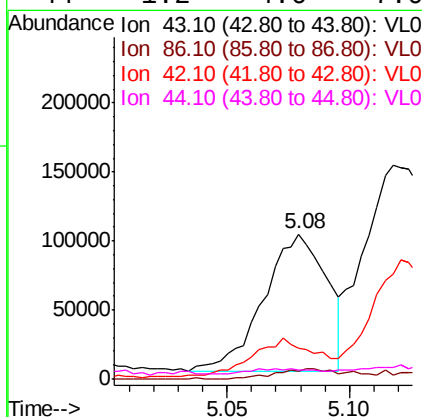
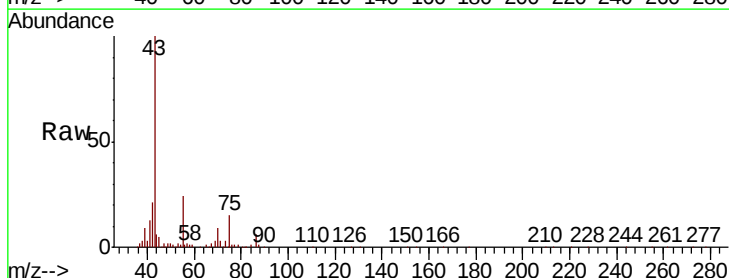
RT: 5.08 min Scan# 713

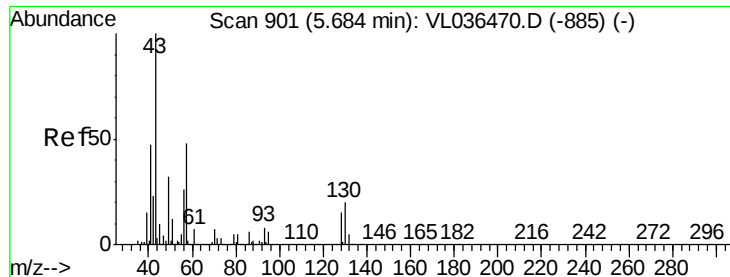
Delta R.T. 0.00 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Tgt Ion:	43	Resp:	178370
Ion	Ratio	Lower	Upper
43	100		
86	6.0	5.4	8.0
42	19.2	8.5	12.7#
44	1.2	4.6	7.0#





#25

Ethyl Acetate

Concen: 3.178 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

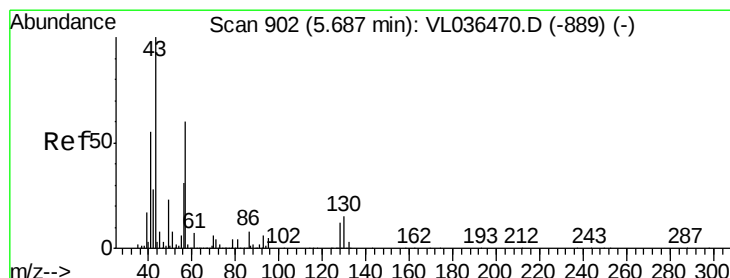
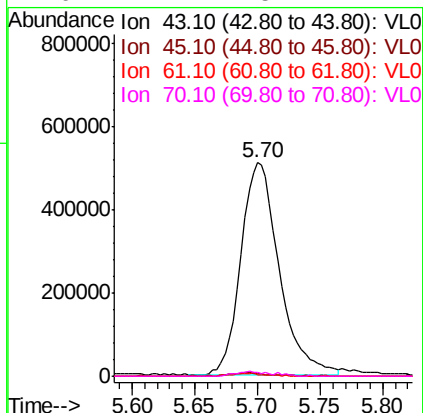
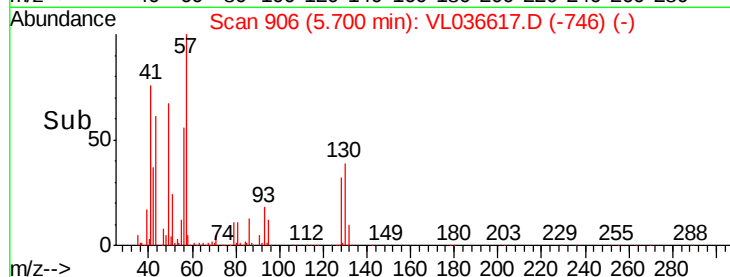
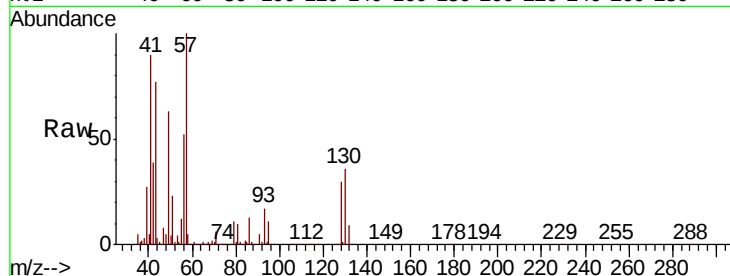
Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1085811

Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.9	11.9#
61	1.5	7.4	11.2#
70	2.4	5.1	7.7#



#26

Hexane

Concen: 8.271 ppbv

RT: 5.70 min Scan# 907

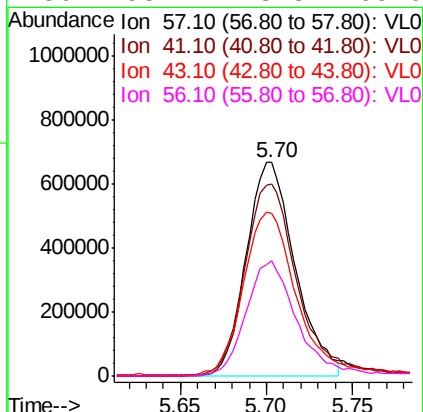
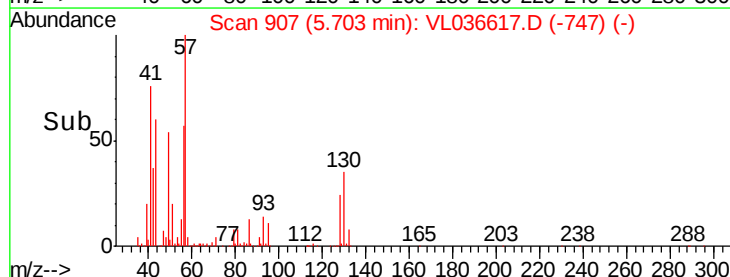
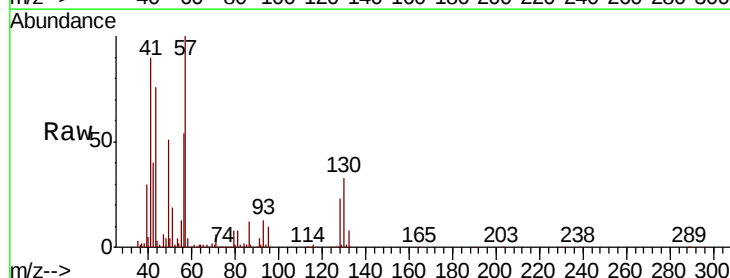
Delta R.T. 0.02 min

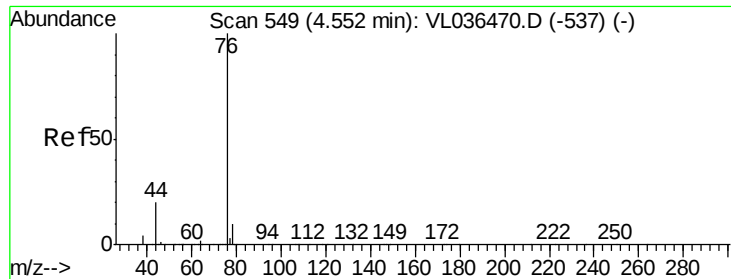
Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Tgt Ion: 57 Resp: 1311561

Ion	Ratio	Lower	Upper
57	100		
41	100.9	77.2	115.8
43	86.3	173.8	260.6#
56	58.1	43.8	65.6





#27

Carbon Disulfide

Concen: 0.240 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.01 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

ClientSampleId :

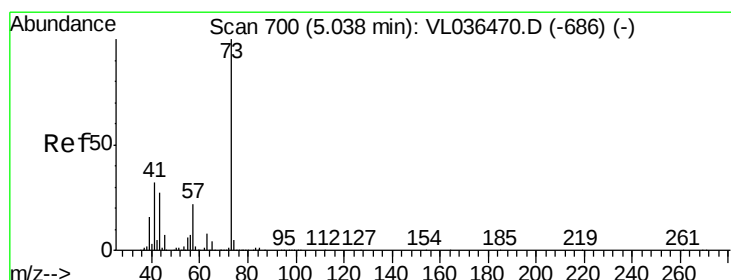
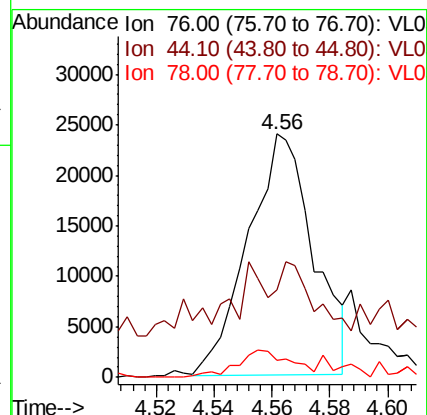
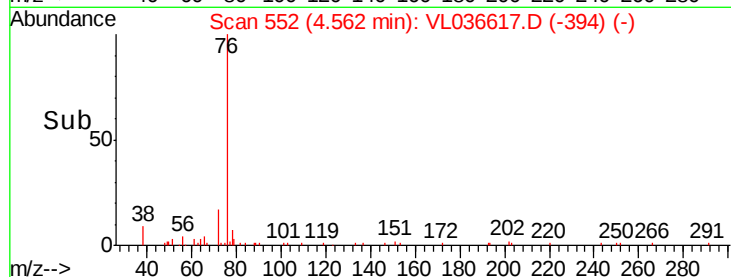
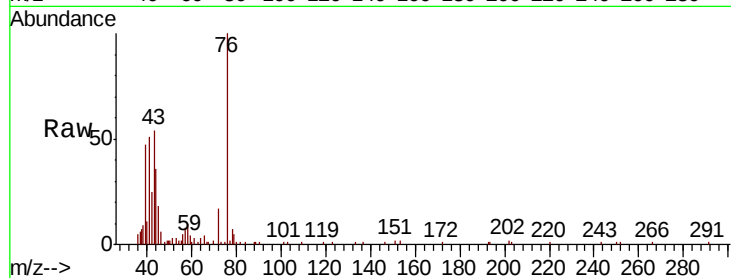
Tot Ion: 76 Resp: 37533

Ion Ratio Lower Upper

76 100

44 50.4 17.5 26.3#

78 14.4 8.6 13.0#



#28

Methyl tert-Butyl Ether

Concen: 0.124 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.01 min

Lab File: VL036617.D

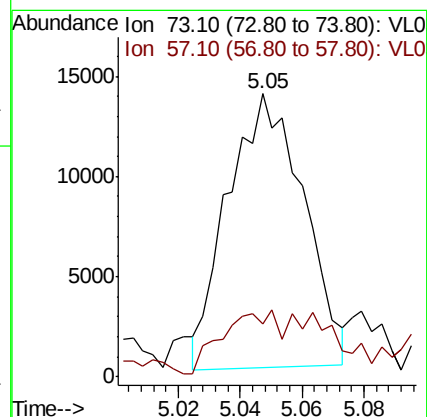
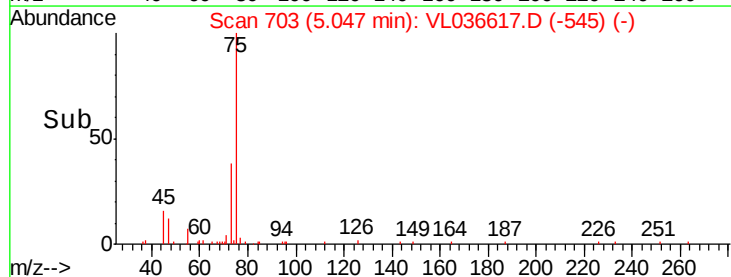
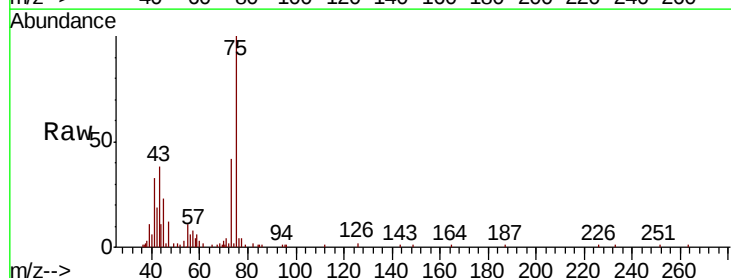
Acq: 1 Apr 2021 1:28

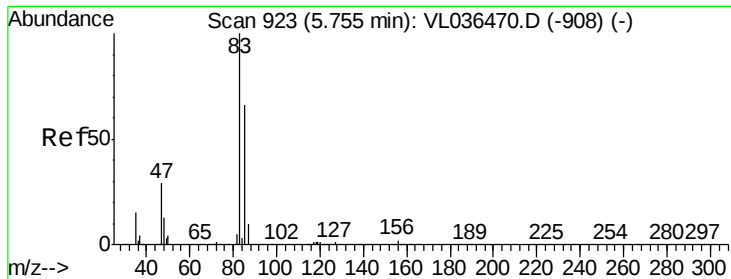
Tgt Ion: 73 Resp: 23170

Ion Ratio Lower Upper

73 100

57 0.0 18.5 27.7#

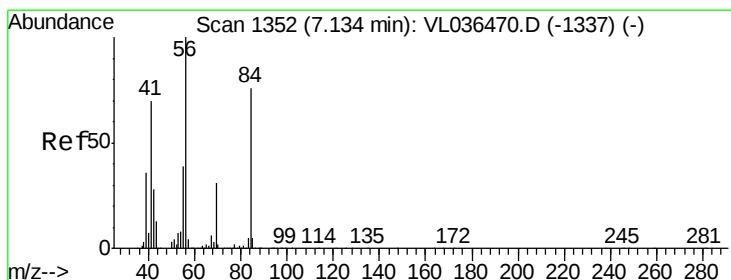
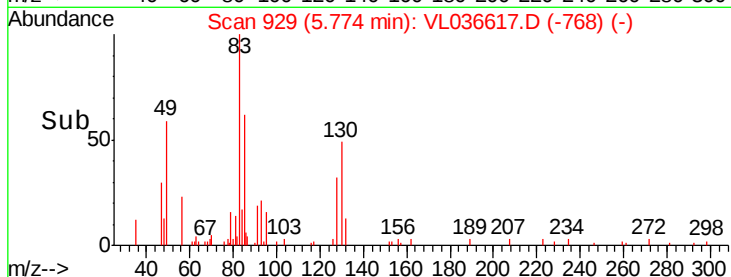
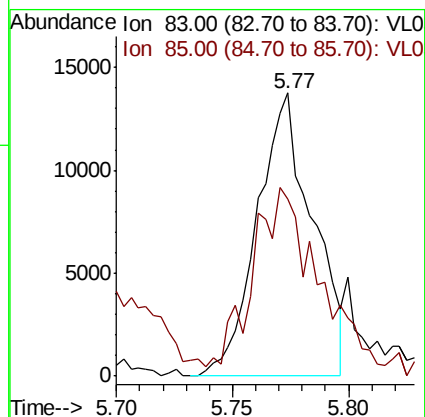
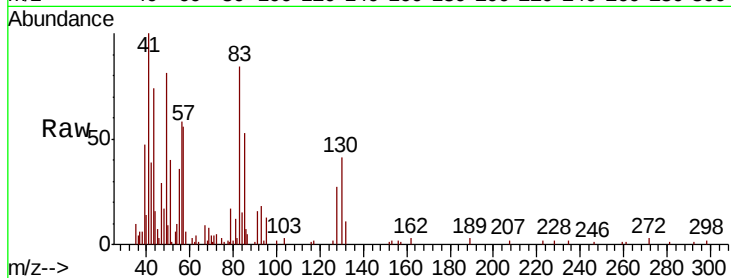




#29
Chloroform
Concen: 0.090 ppbv
RT: 5.77 min Scan# 929
Delta R.T. 0.02 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

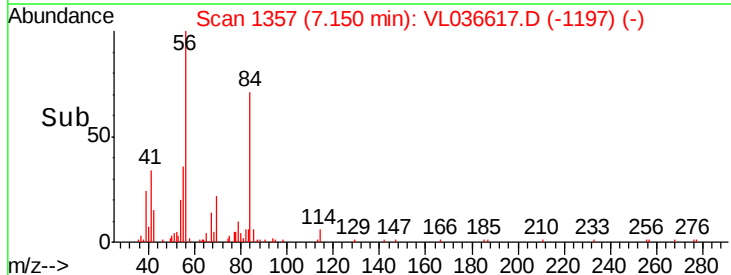
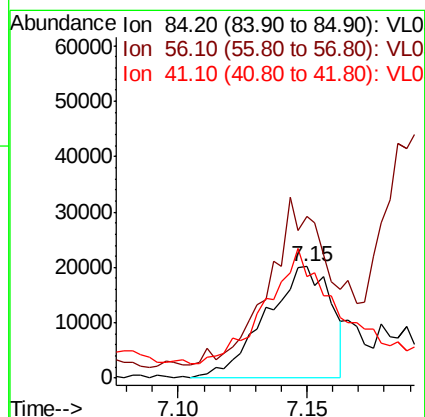
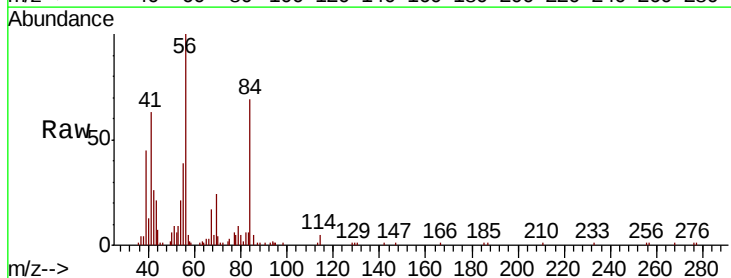
Instrument :
MSVOA_L
ClientSampleId :

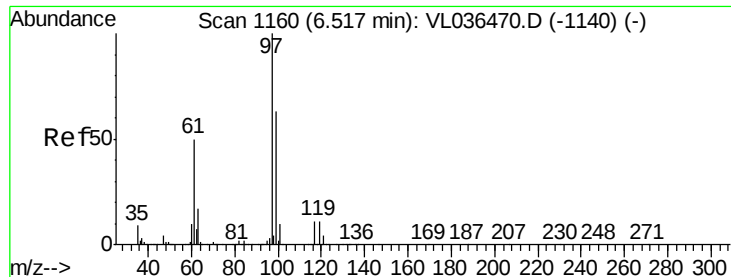
Tot Ion: 83 Resp: 22840
Ion Ratio Lower Upper
83 100
85 56.7 52.6 78.8



#30
Cyclohexane
Concen: 0.275 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.02 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

Tgt Ion: 84 Resp: 35392
Ion Ratio Lower Upper
84 100
56 154.5 114.6 171.8
41 128.0 75.3 112.9#

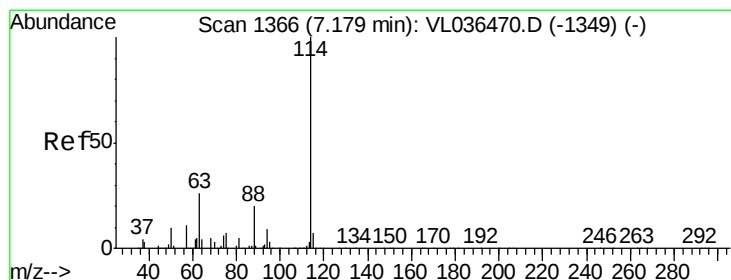
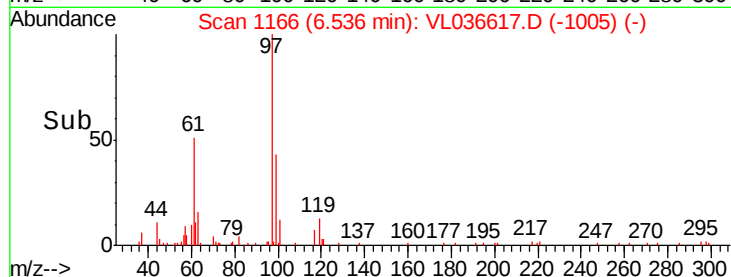
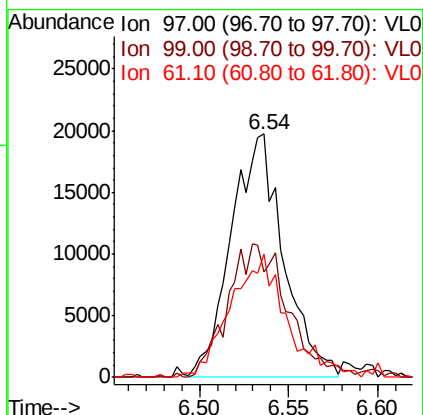
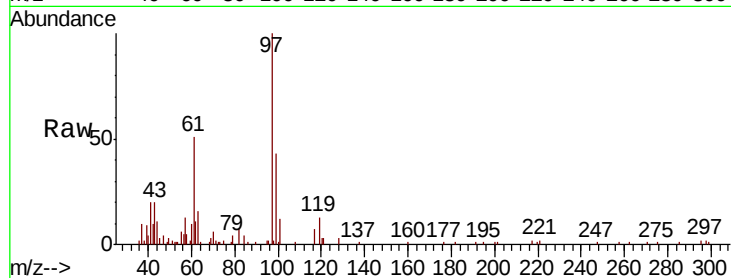




#32
 1,1,1-Trichloroethane
 Concen: 0.158 ppbv
 RT: 6.54 min Scan# 1166
 Delta R.T. 0.02 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

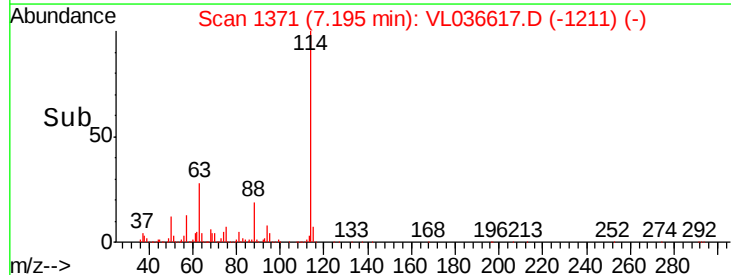
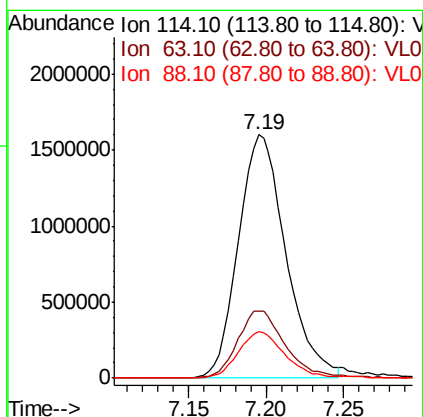
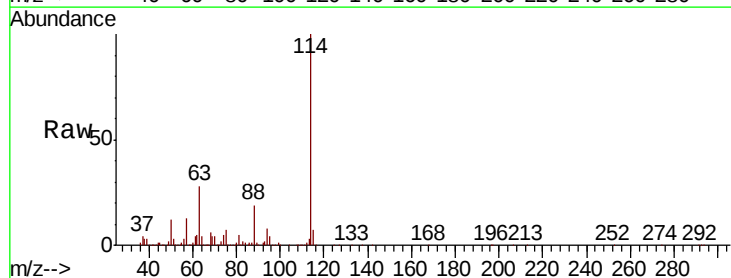
Instrument :
 MSVOA_L
 ClientSampled :

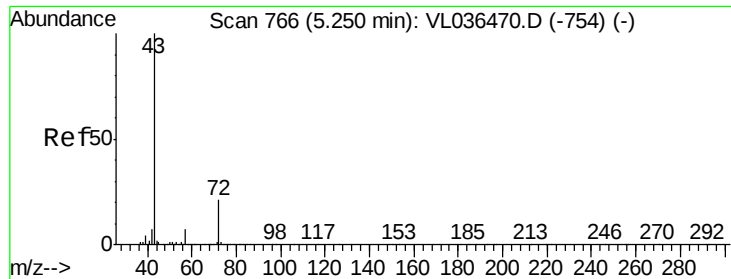
Tot Ion: 97 Resp: 40475
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.4 77.0
 61 55.1 40.6 60.8



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. 0.02 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Tgt Ion: 114 Resp: 3403878
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.4 33.6
 88 19.3 15.4 23.0

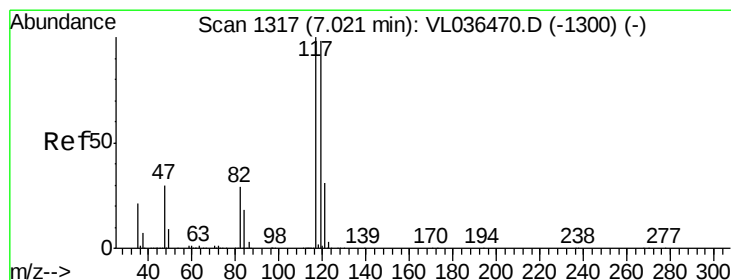
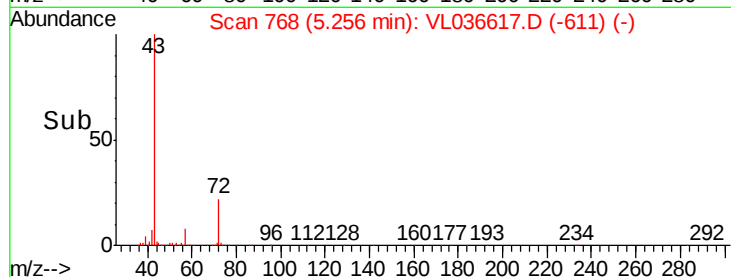
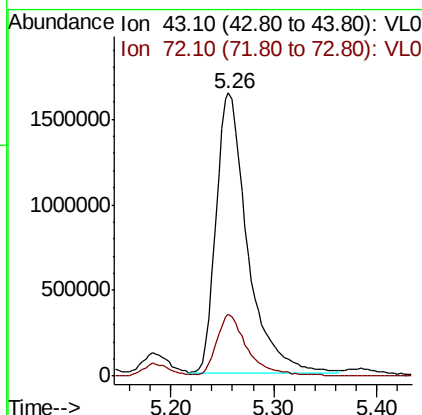
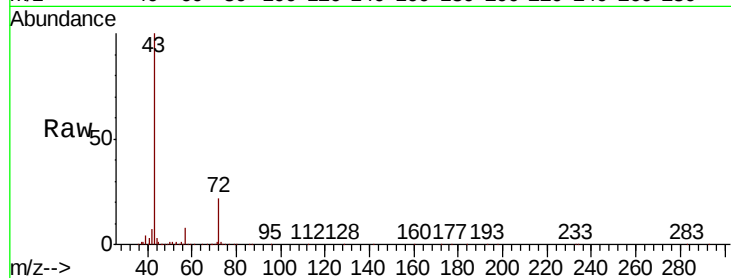




#34
2-Butanone
Concen: 20.718 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.01 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

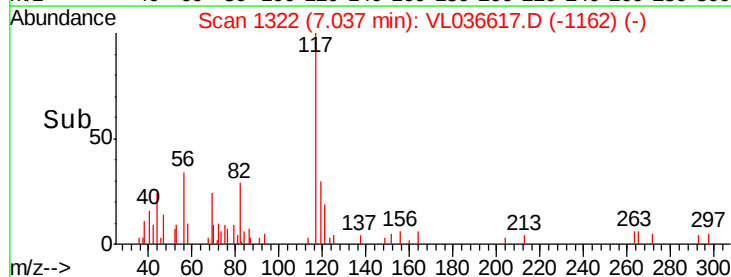
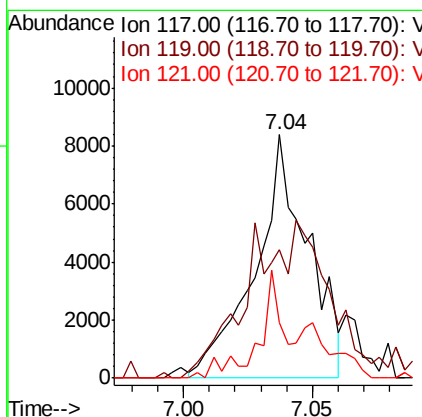
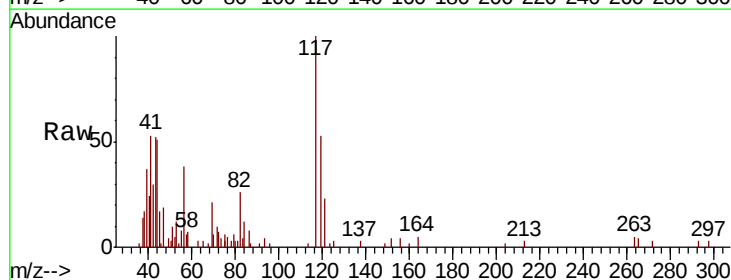
Instrument :
MSVOA_L
ClientSampleId :

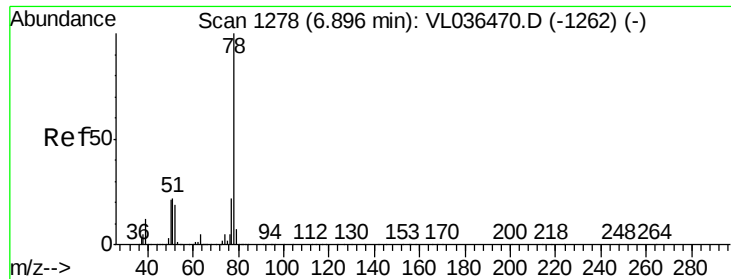
Tot Ion: 43 Resp: 3442308
Ion Ratio Lower Upper
43 100
72 22.2 17.0 25.6



#35
Carbon Tetrachloride
Concen: 0.046 ppbv
RT: 7.04 min Scan# 1322
Delta R.T. 0.02 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

Tgt Ion: 117 Resp: 11939
Ion Ratio Lower Upper
117 100
119 51.3 78.2 117.2#
121 23.1 24.5 36.7#





#36

Benzene

Concen: 1.466 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

ClientSampleId :

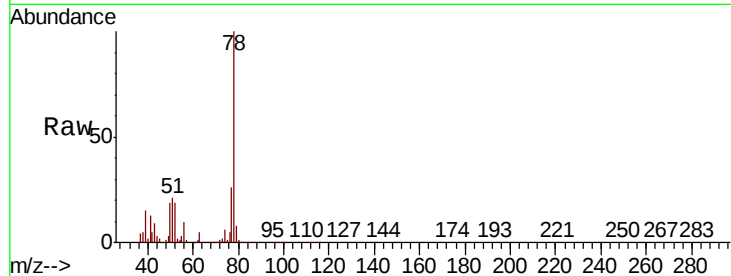
Tot Ion: 78 Resp: 460344

Ion Ratio Lower Upper

78 100

77 25.6 18.0 27.0

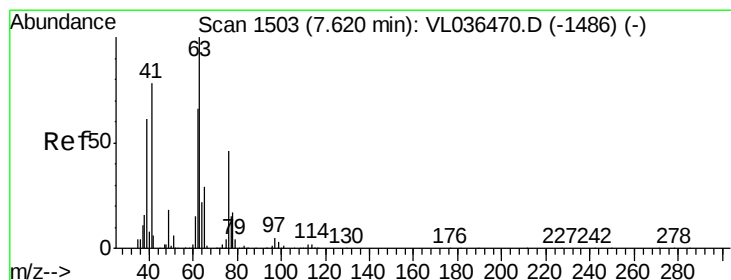
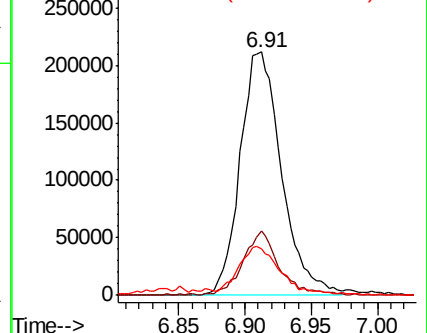
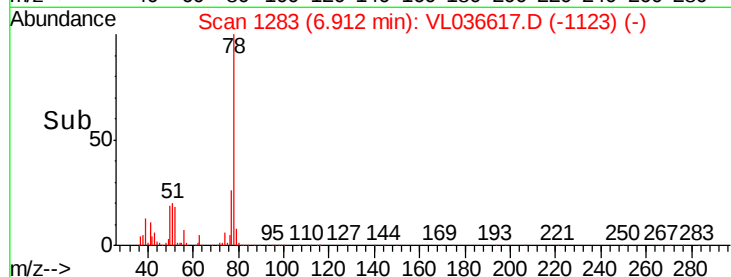
50 18.2 16.5 24.7



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.431 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.42 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

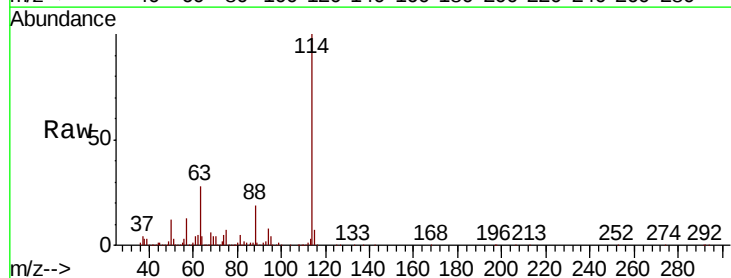
Tgt Ion: 63 Resp: 946342

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

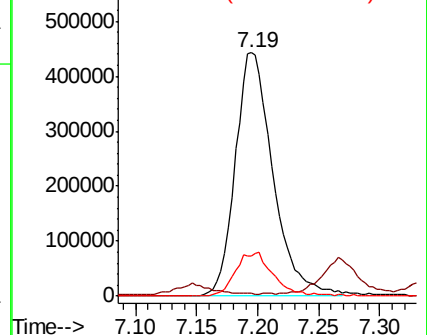
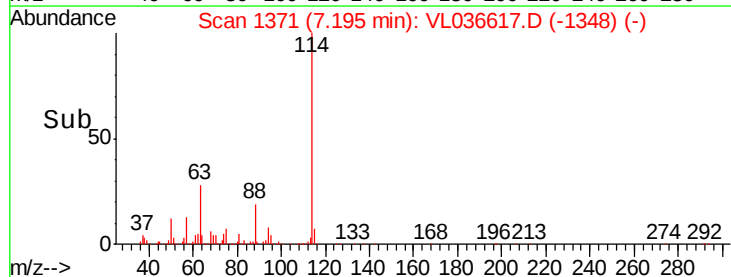
62 16.6 52.8 79.2#

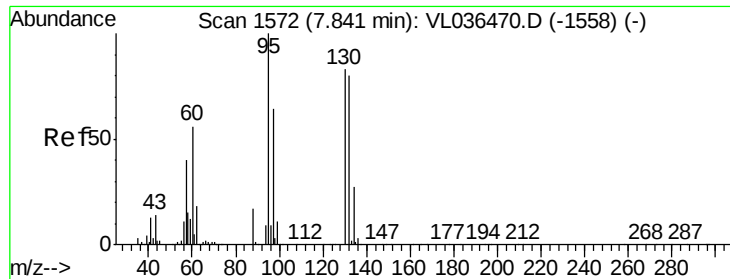


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

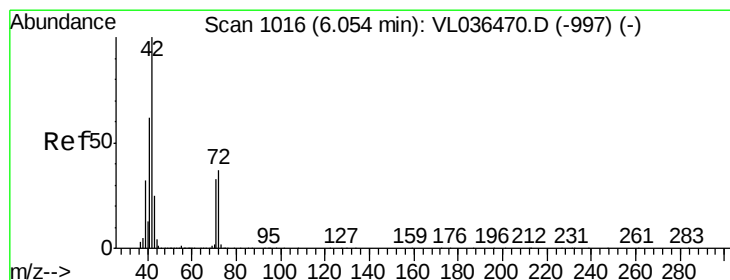
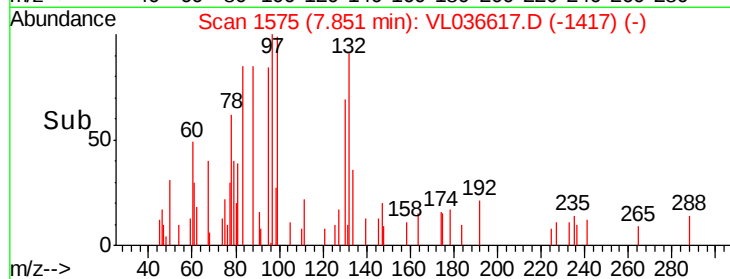
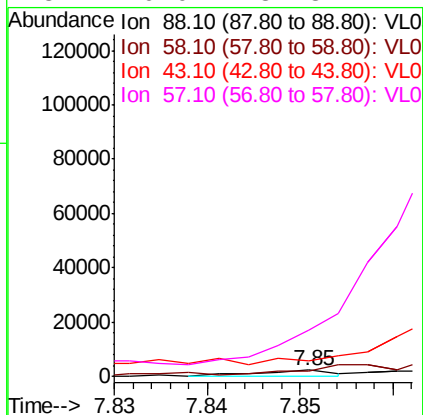
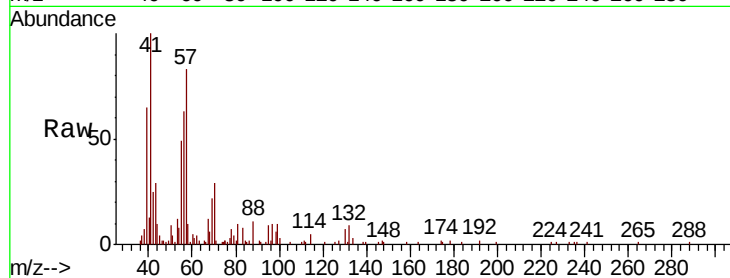




#40
1,4-Dioxane
Concen: 0.042 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

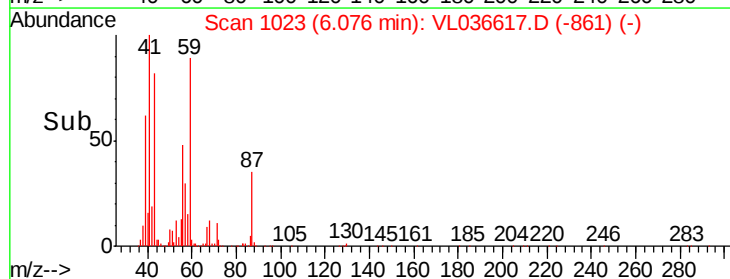
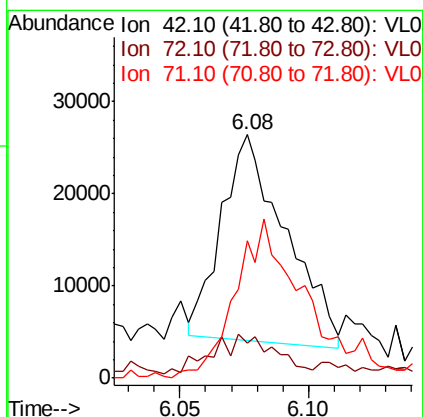
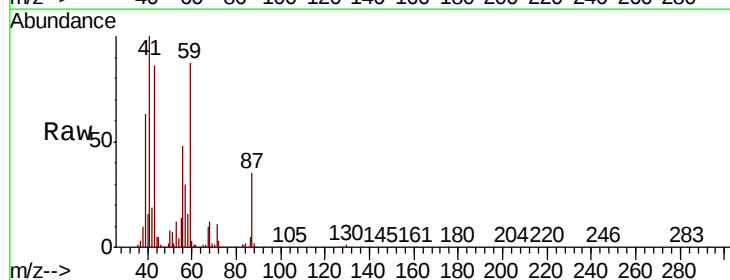
Instrument :
MSVOA_L
ClientSampled :

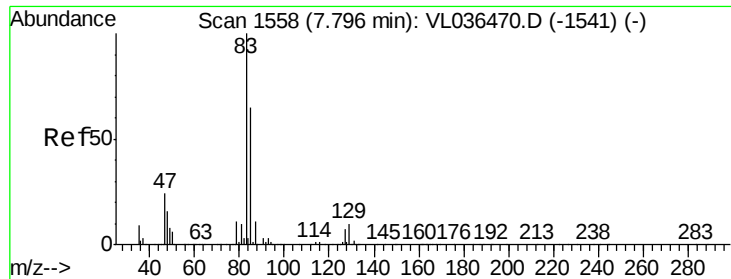
Tot Ion: 88 Resp: 1245
Ion Ratio Lower Upper
88 100
58 0.0 134.1 201.1#
43 0.0 346.6 520.0#
57 0.0 1481.8 2222.8#



#41
Tetrahydrofuran
Concen: 0.504 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. 0.02 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

Tgt Ion: 42 Resp: 38603
Ion Ratio Lower Upper
42 100
72 35.9 27.6 41.4
71 90.5 27.0 40.4#





#42

Bromodichloromethane

Concen: 0.027 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

ClientSampleId :

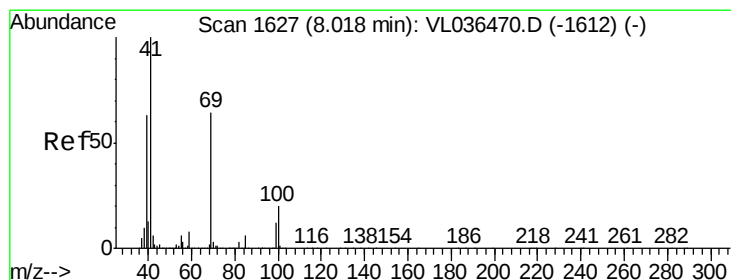
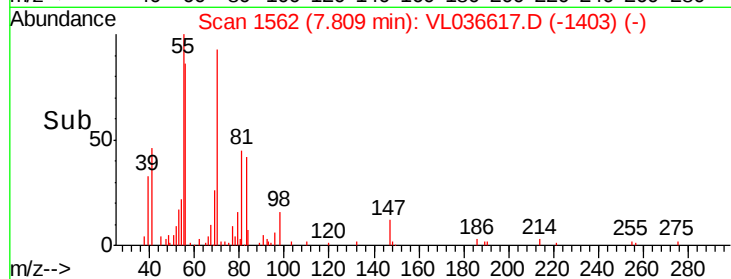
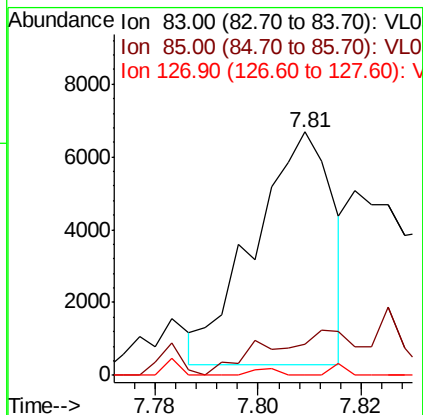
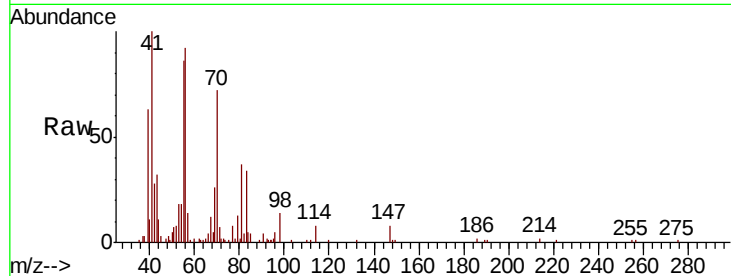
Tot Ion: 83 Resp: 6771

Ion Ratio Lower Upper

83 100

85 12.6 51.8 77.6#

127 0.0 5.8 8.8#



#43

Methyl Methacrylate

Concen: 0.077 ppbv

RT: 8.04 min Scan# 1634

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

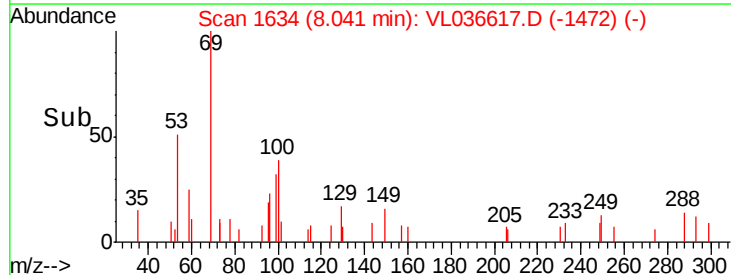
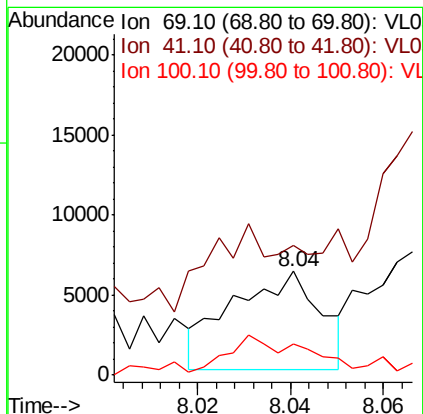
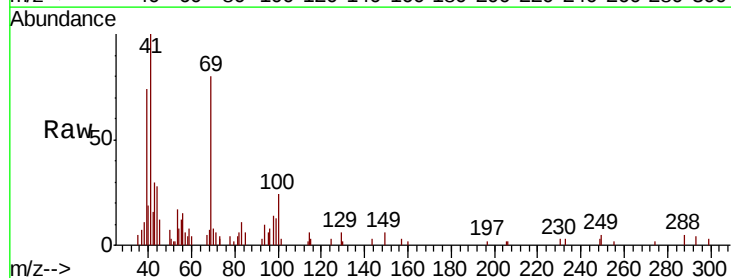
Tgt Ion: 69 Resp: 8076

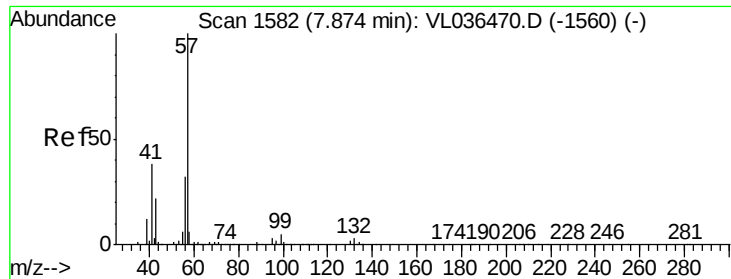
Ion Ratio Lower Upper

69 100

41 0.0 126.8 190.2#

100 52.0 24.9 37.3#

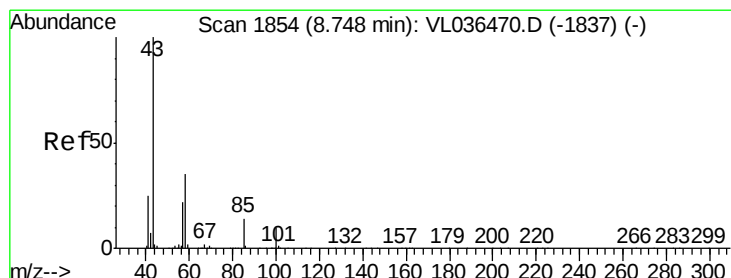
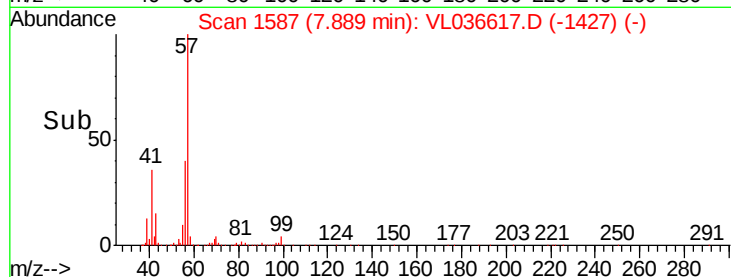
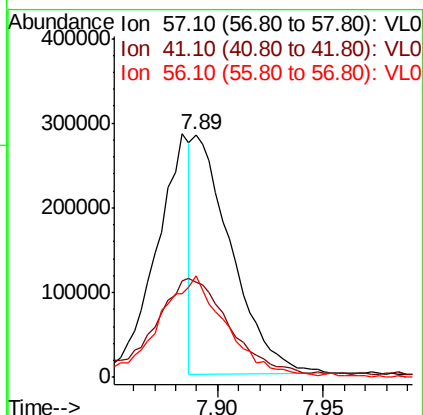
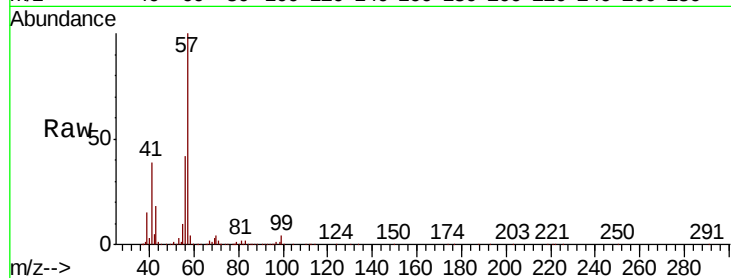




#44
 2,2,4-Trimethylpentane
 Concen: 0.649 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. 0.02 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

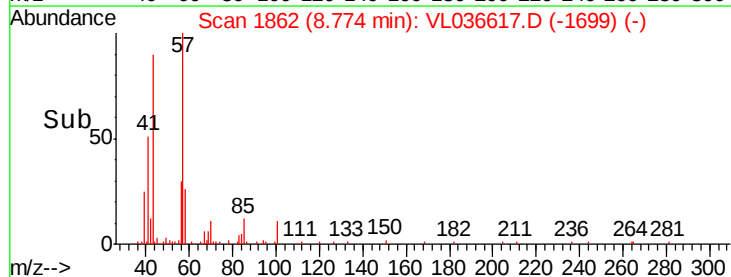
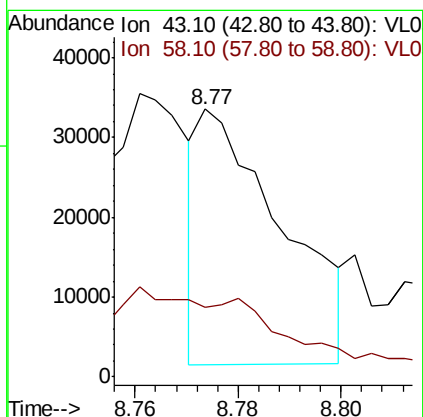
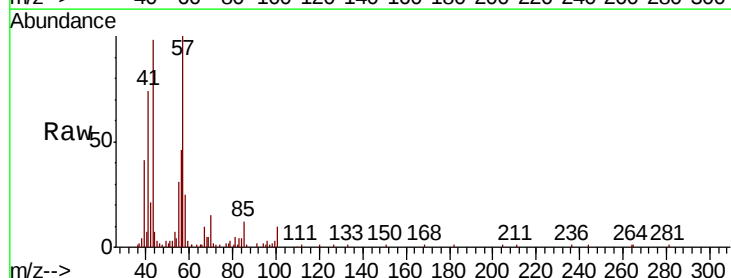
Instrument :
 MSVOA_L
 ClientSampleId :

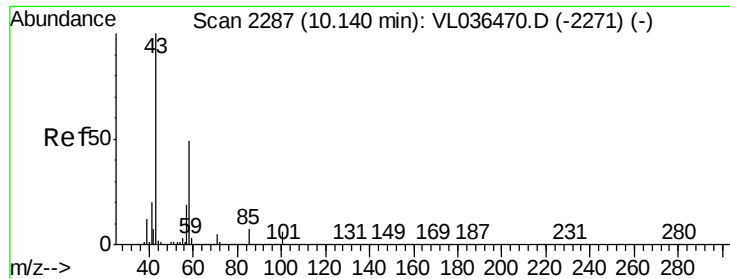
Tot Ion: 57 Resp: 358485
 Ion Ratio Lower Upper
 57 100
 41 75.6 28.8 43.2#
 56 74.2 26.1 39.1#



#50
 4-Methyl-2-Pentanone
 Concen: 0.149 ppbv
 RT: 8.77 min Scan# 1862
 Delta R.T. 0.03 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Tgt Ion: 43 Resp: 35886
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.2 42.2#

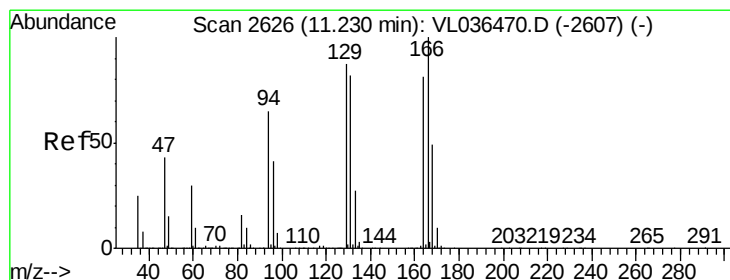
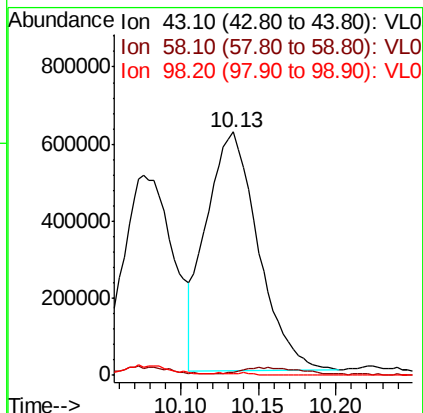
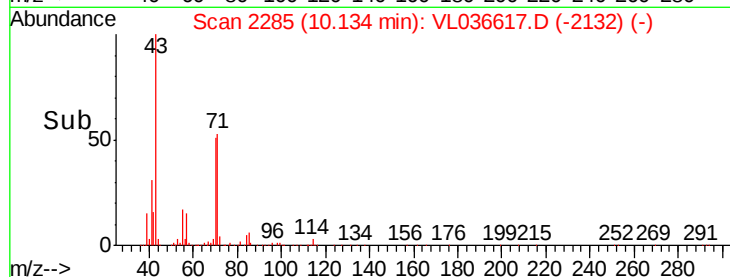
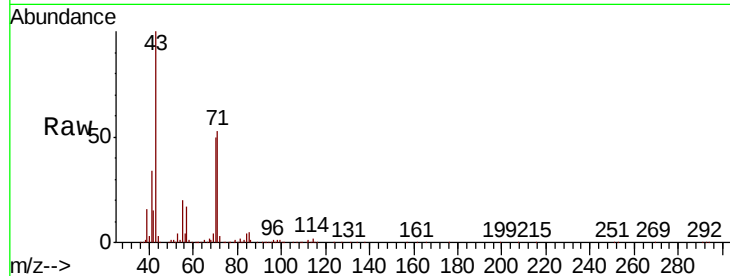




#51
2-Hexanone
Concen: 11.944 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. -0.01 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

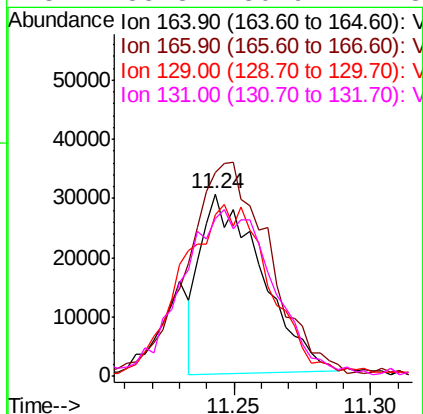
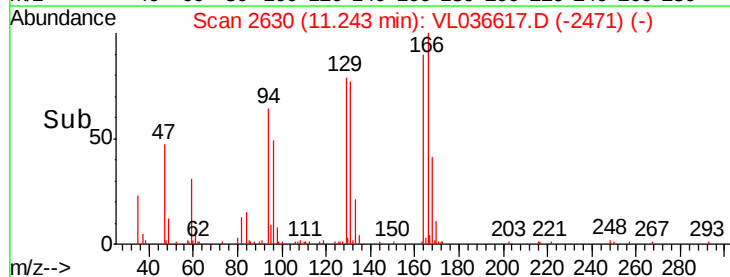
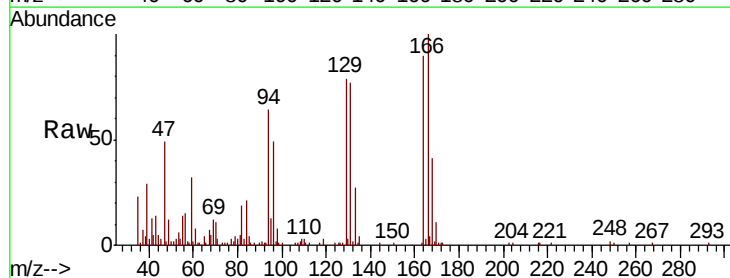
Instrument :
MSVOA_L
ClientSampled :

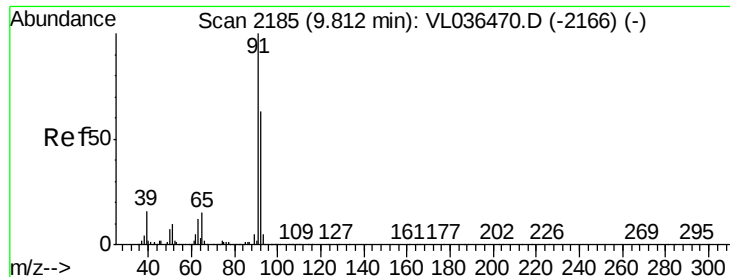
Tot Ion: 43 Resp: 1449137
Ion Ratio Lower Upper
43 100
58 4.6 37.7 56.5#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.406 ppbv
RT: 11.24 min Scan# 2630
Delta R.T. 0.01 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

Tgt Ion:164 Resp: 46972
Ion Ratio Lower Upper
164 100
166 108.5 98.3 147.5
129 88.3 85.8 128.8
131 85.3 80.9 121.3





#53

Toluene

Concen: 7.880 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.01 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

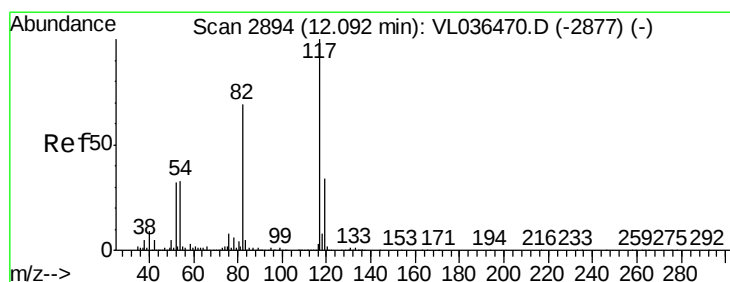
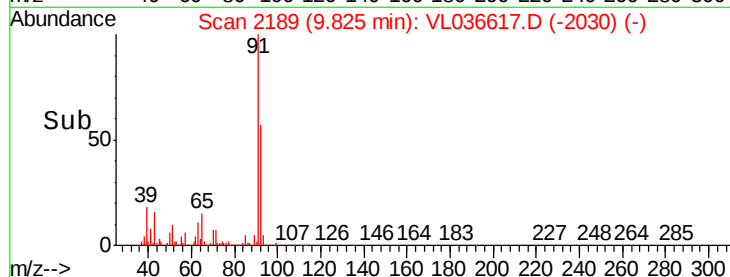
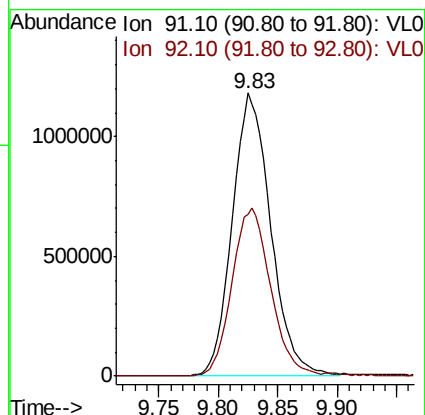
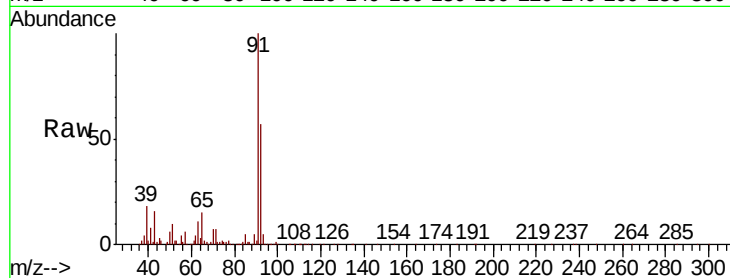
ClientSampleId :

Tot Ion: 91 Resp: 2634448

Ion Ratio Lower Upper

91 100

92 60.6 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

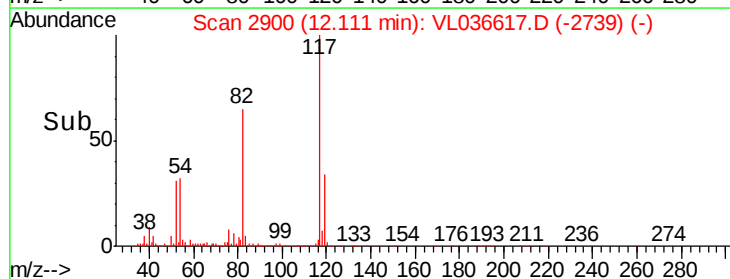
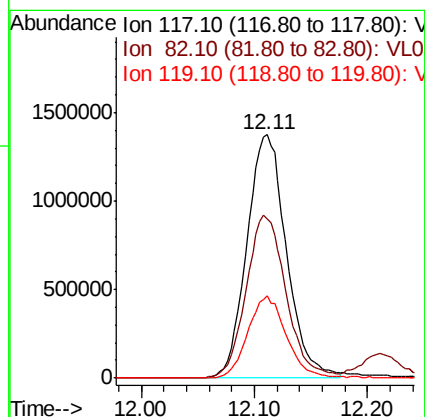
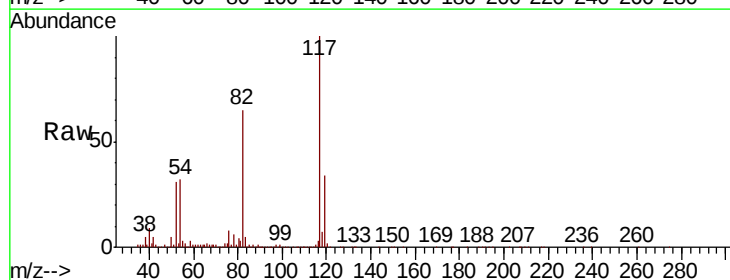
Tgt Ion: 117 Resp: 3344565

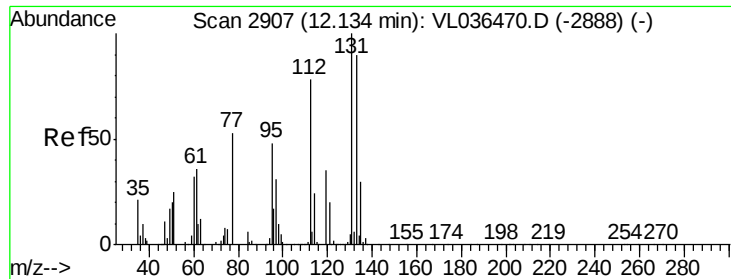
Ion Ratio Lower Upper

117 100

82 67.2 57.4 86.0

119 33.5 47.4 71.0#

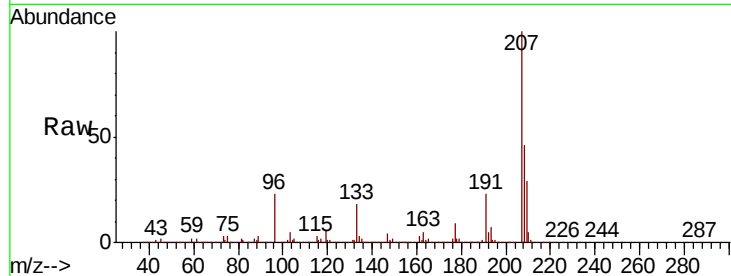




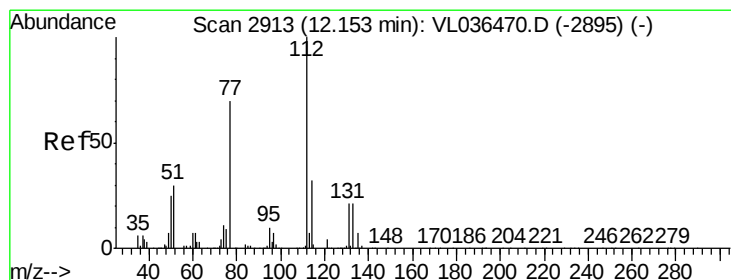
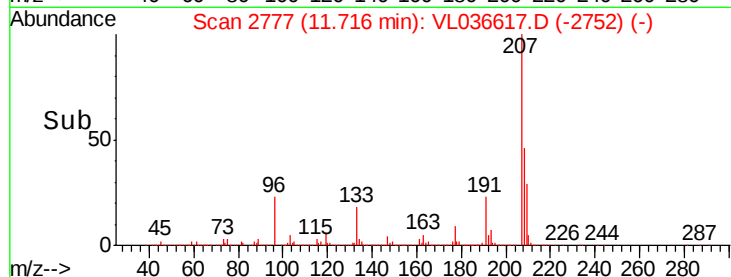
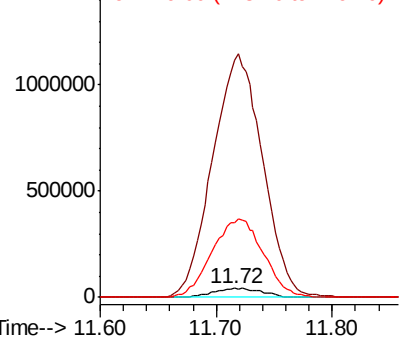
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.834 ppbv
 RT: 11.72 min Scan# 2777
 Delta R.T. -0.42 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:131 Resp: 126207
 Ion Ratio Lower Upper
 131 100
 133 2704.2 75.8 113.6#
 119 895.2 48.7 73.1#

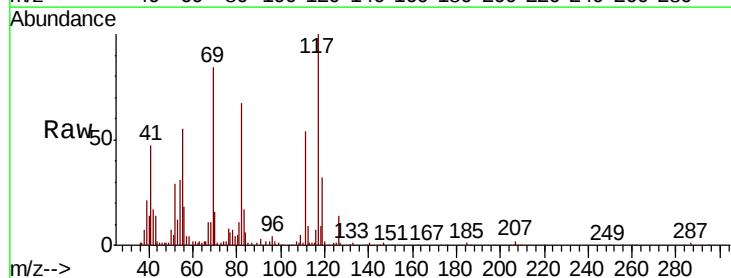


Abundance Ion 131.00 (130.70 to 131.70): V
 Ion 133.00 (132.70 to 133.70): V
 Ion 119.00 (118.70 to 119.70): V

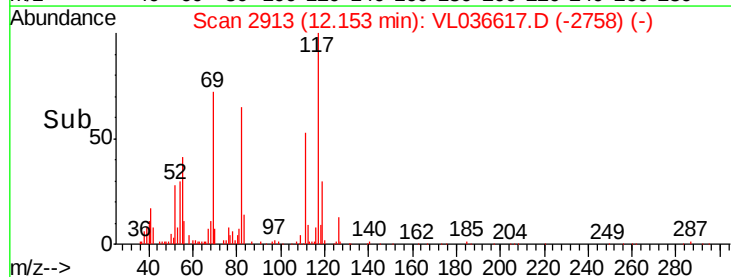
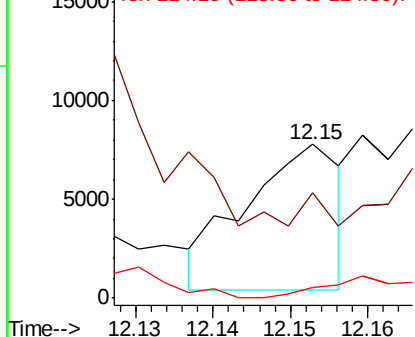


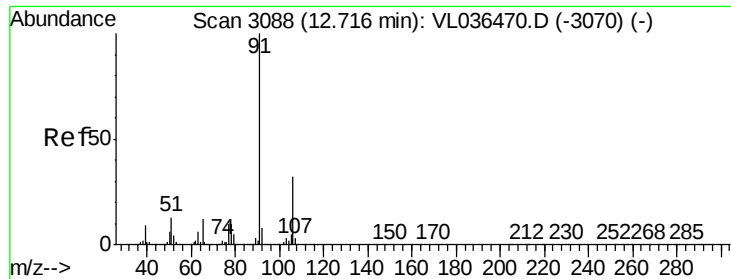
#57
 Chlorobenzene
 Concen: 0.022 ppbv
 RT: 12.15 min Scan# 2913
 Delta R.T. -0.00 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Tgt Ion:112 Resp: 6274
 Ion Ratio Lower Upper
 112 100
 77 32.1 56.0 84.0#
 114 4.5 29.0 35.4#



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





#58

Ethyl Benzene

Concen: 3.595 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

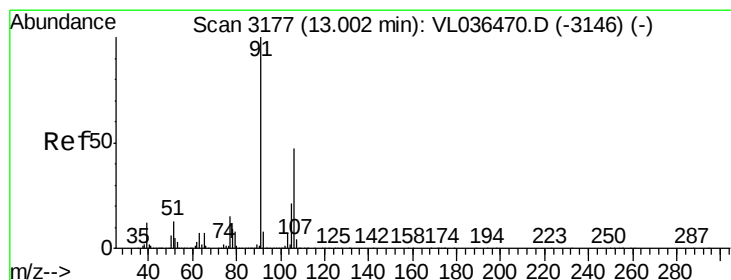
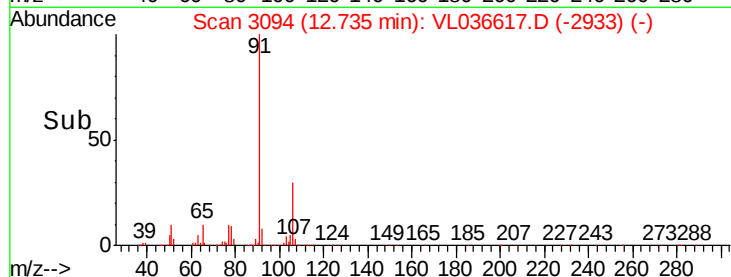
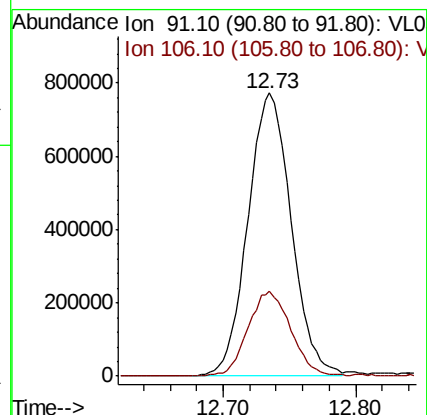
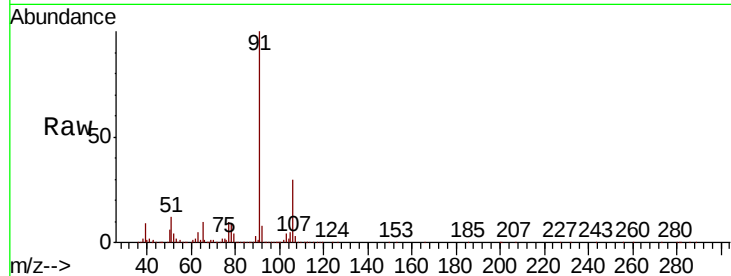
ClientSampleId :

Tot Ion: 91 Resp: 1749305

Ion Ratio Lower Upper

91 100

106 30.0 25.3 37.9



#59

m/p-Xylene

Concen: 13.768 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL036617.D

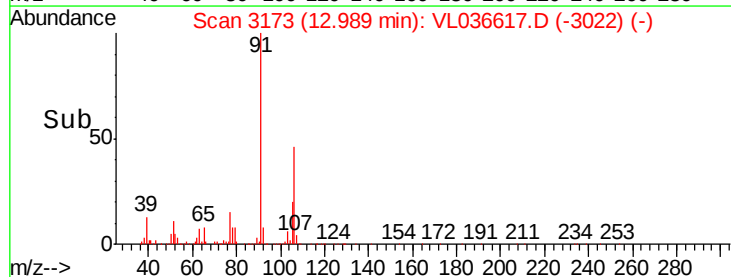
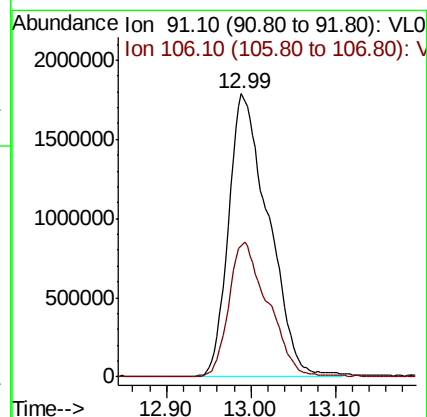
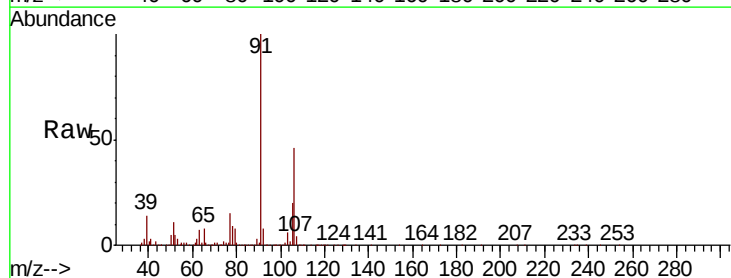
Acq: 1 Apr 2021 1:28

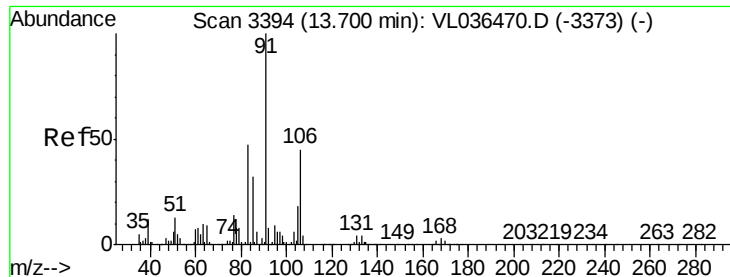
Tgt Ion: 91 Resp: 5843338

Ion Ratio Lower Upper

91 100

106 46.9 35.3 52.9

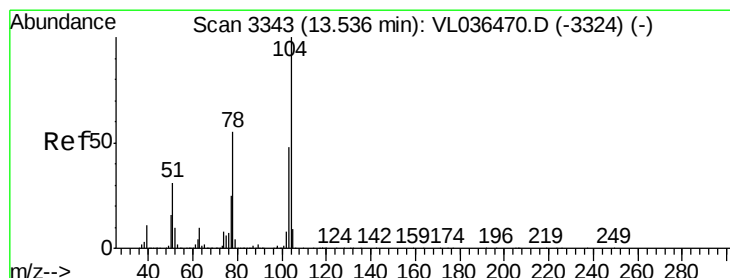
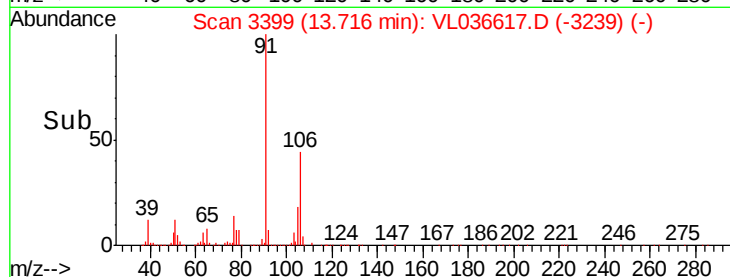
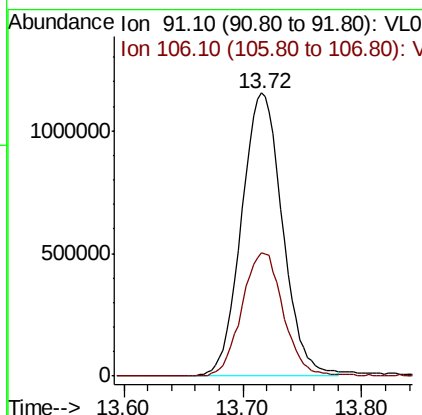
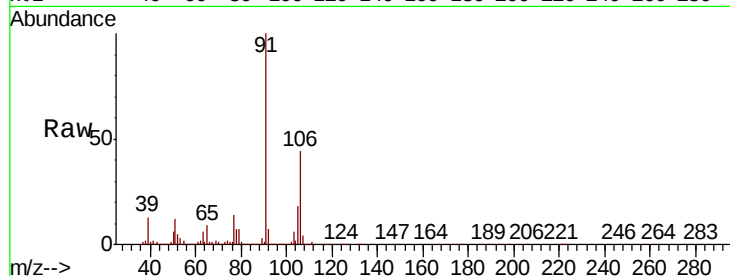




#60
o-Xylene
Concen: 6.670 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. 0.02 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

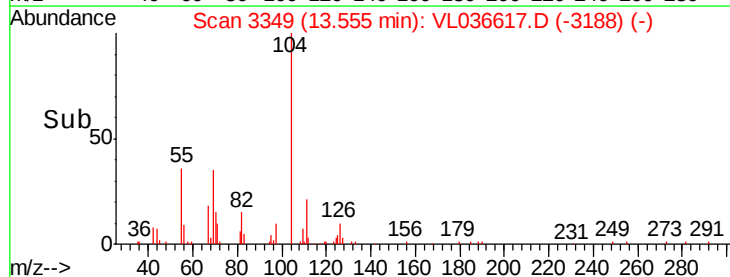
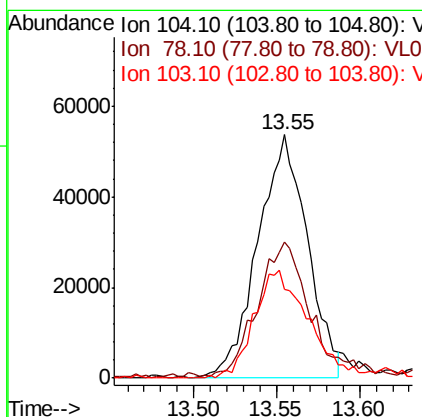
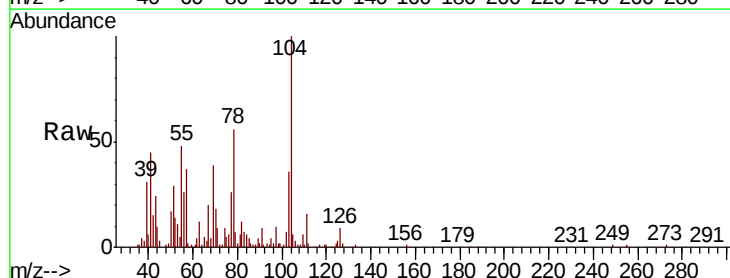
Instrument :
MSVOA_L
ClientSampled :

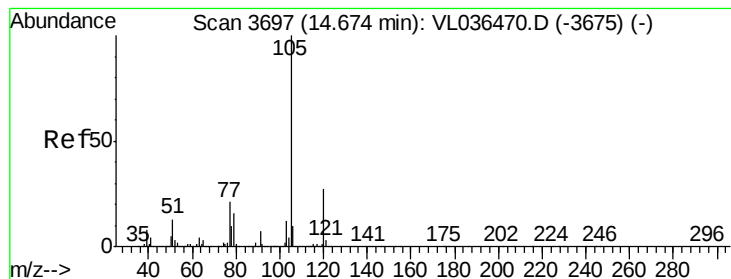
Tot Ion: 91 Resp: 2737180
Ion Ratio Lower Upper
91 100
106 44.6 22.3 66.9



#61
Styrene
Concen: 0.542 ppbv
RT: 13.55 min Scan# 3349
Delta R.T. 0.02 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

Tgt Ion: 104 Resp: 111797
Ion Ratio Lower Upper
104 100
78 60.2 43.8 65.8
103 50.8 38.3 57.5





#62

Isopropylbenzene

Concen: 0.400 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

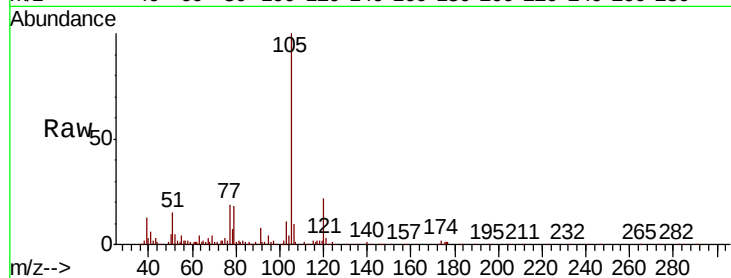
ClientSampleId :

Tot Ion:105 Resp: 221197

Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.69

100000

80000

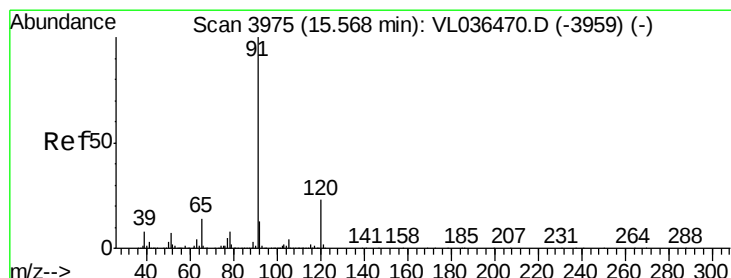
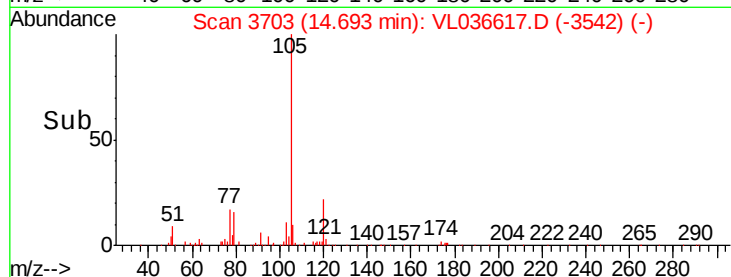
60000

40000

20000

0

Time--> 14.60 14.65 14.70 14.75



#64

n-propylbenzene

Concen: 1.189 ppbv

RT: 15.59 min Scan# 3981

Delta R.T. 0.02 min

Lab File: VL036617.D

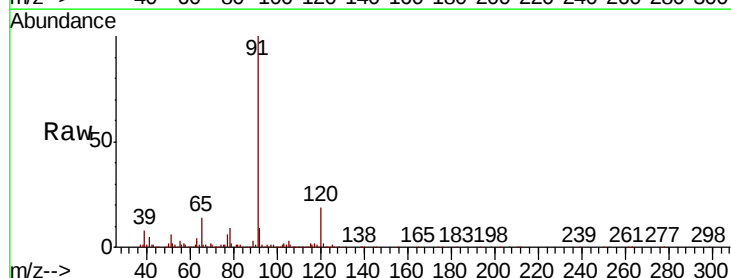
Acq: 1 Apr 2021 1:28

Tgt Ion:120 Resp: 160651

Ion Ratio Lower Upper

120 100

91 526.9 377.4 566.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

400000

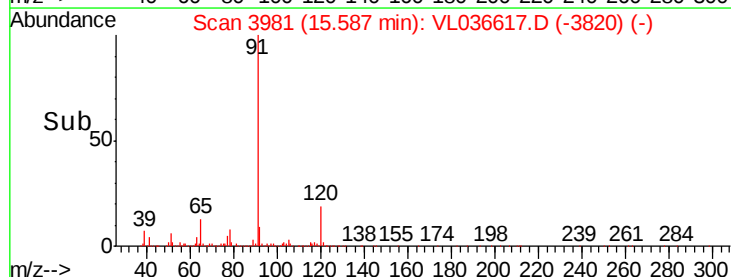
300000

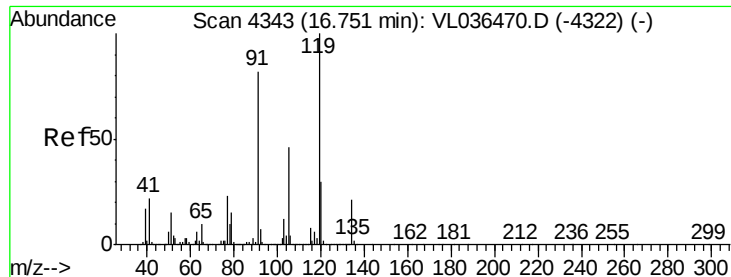
200000

100000

0

Time--> 15.50 15.55 15.60 15.65

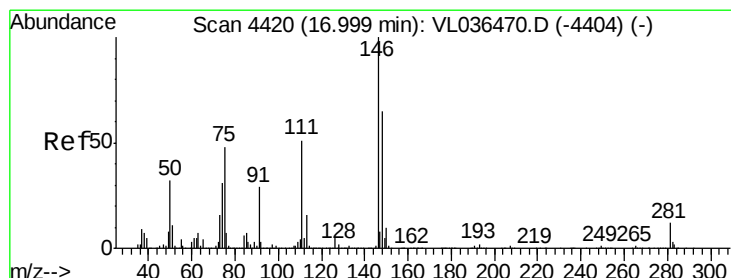
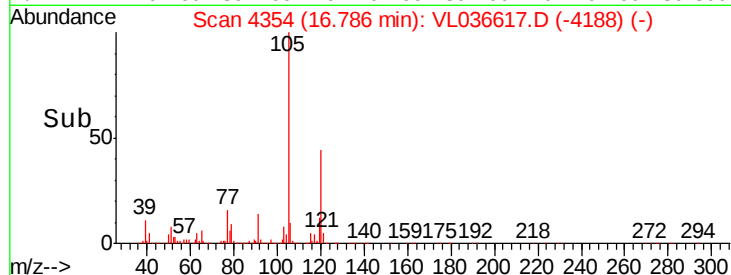
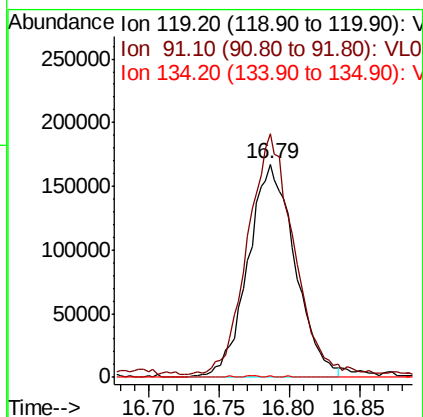
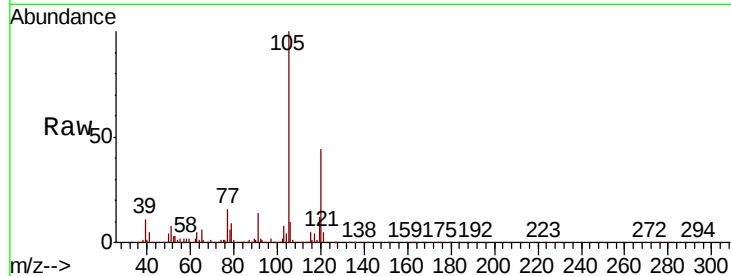




#65
tert-Butylbenzene
Concen: 0.811 ppbv
RT: 16.79 min Scan# 4354
Delta R.T. 0.04 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

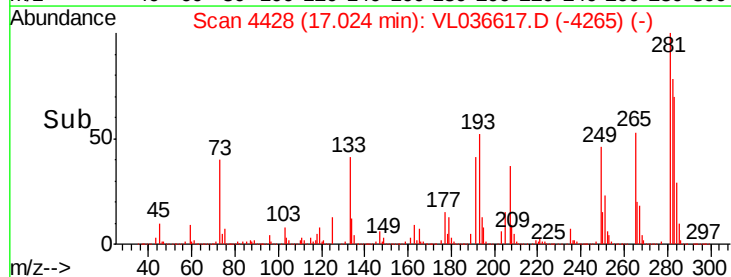
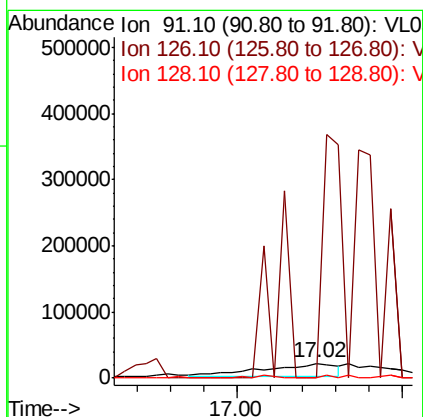
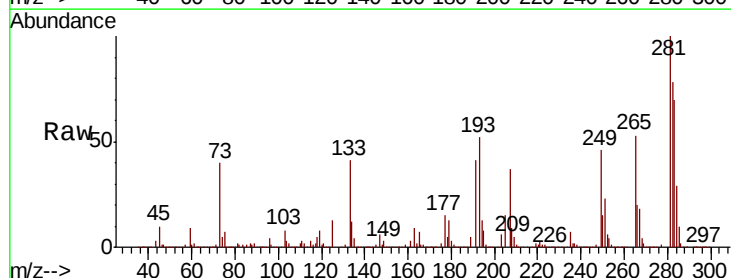
Instrument :
MSVOA_L
ClientSampled :

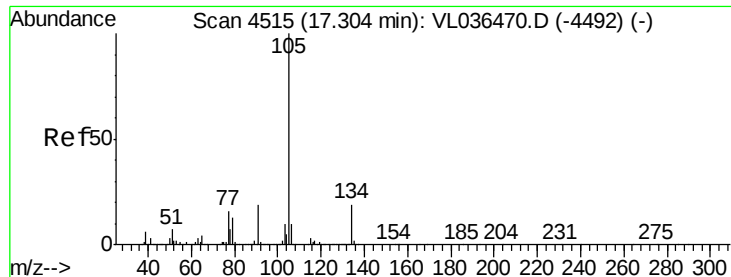
Tot Ion: 119 Resp: 388574
Ion Ratio Lower Upper
119 100
91 114.4 67.5 101.3#
134 16.2 15.8 23.8



#66
Benzyl Chloride
Concen: 0.541 ppbv
RT: 17.02 min Scan# 4428
Delta R.T. 0.03 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

Tgt Ion: 91 Resp: 28639
Ion Ratio Lower Upper
91 100
126 1501.1 13.5 20.3#
128 14.2 4.2 6.4#





#67

sec-Butylbenzene

Concen: 0.098 ppbv

RT: 17.32 min Scan# 4521

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

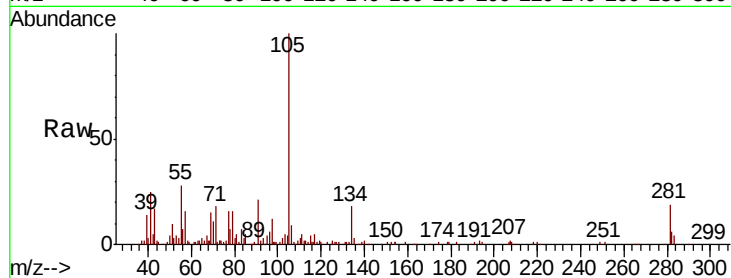
ClientSampleId :

Tot Ion:105 Resp: 66007

Ion Ratio Lower Upper

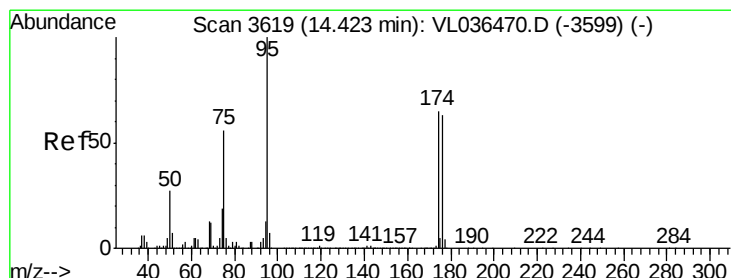
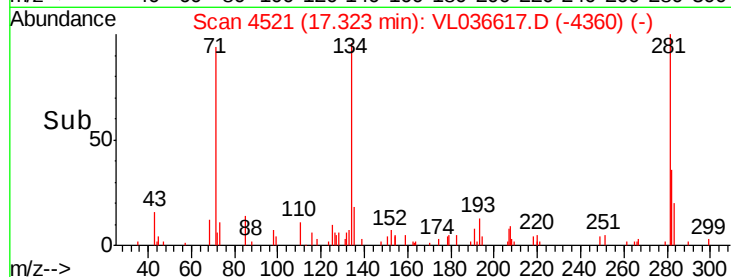
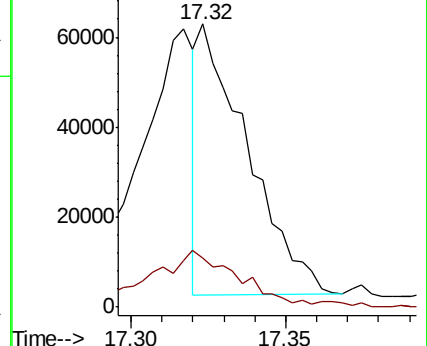
105 100

134 0.0 14.7 22.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.954 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. 0.02 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

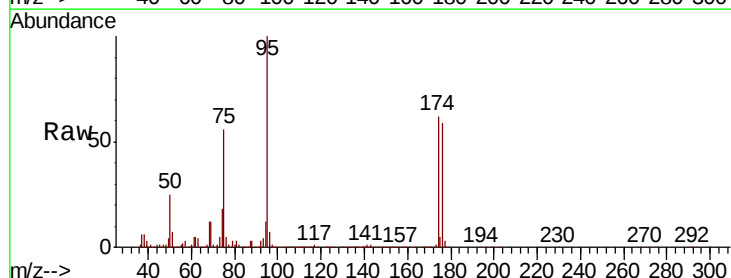
Tgt Ion: 95 Resp: 2653481

Ion Ratio Lower Upper

95 100

174 64.7 51.0 76.6

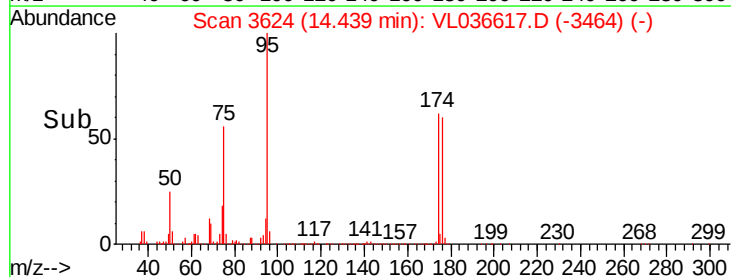
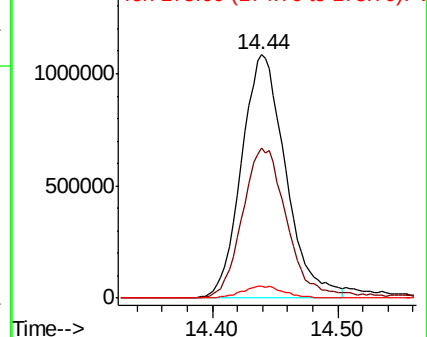
175 5.0 3.9 5.9

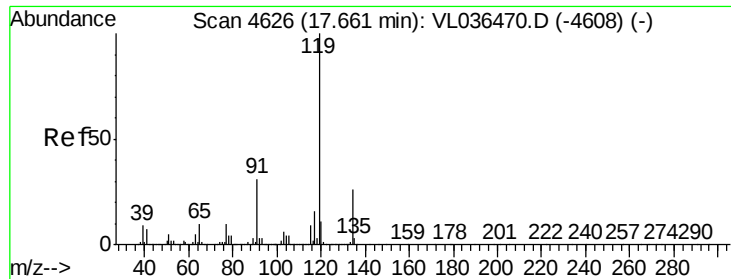


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

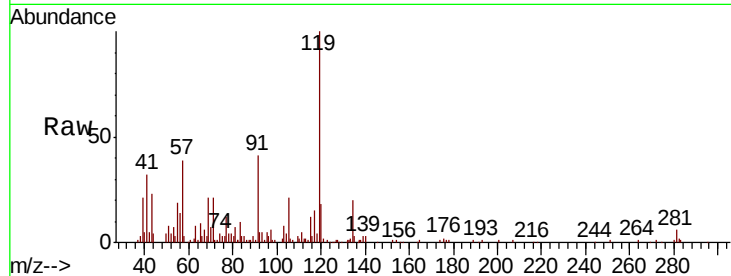




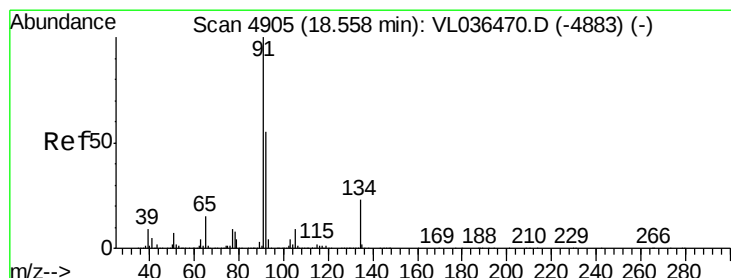
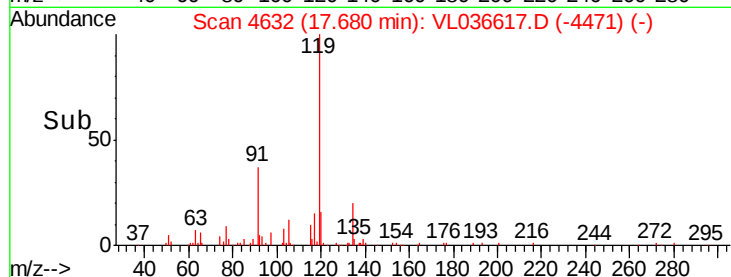
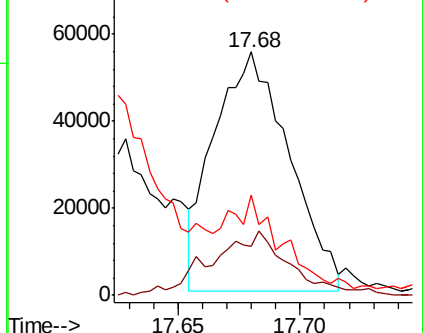
#69
 p-Isopropyltoluene
 Concen: 0.223 ppbv
 RT: 17.68 min Scan# 4632
 Delta R.T. 0.02 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.0	20.6	30.8
91	34.3	25.0	37.6

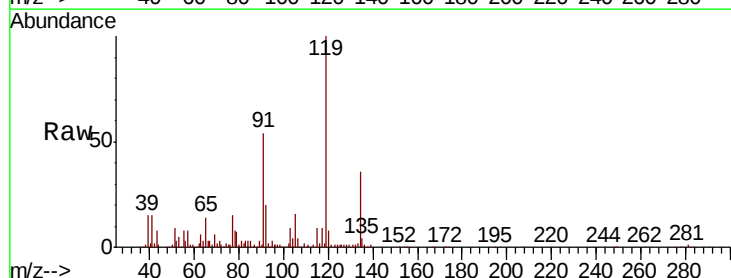


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

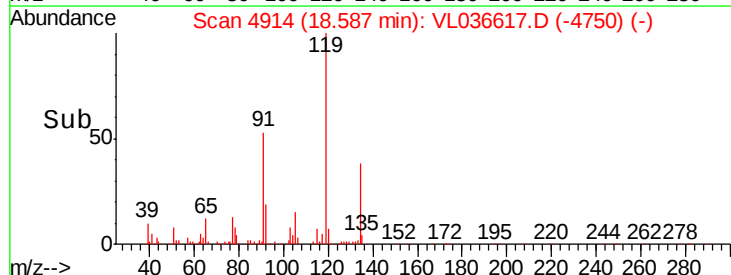
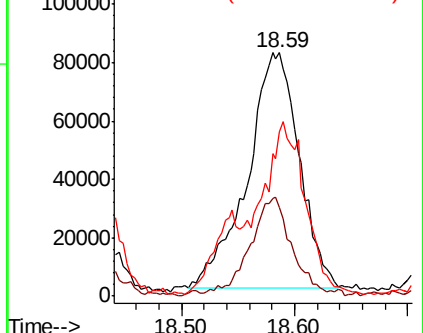


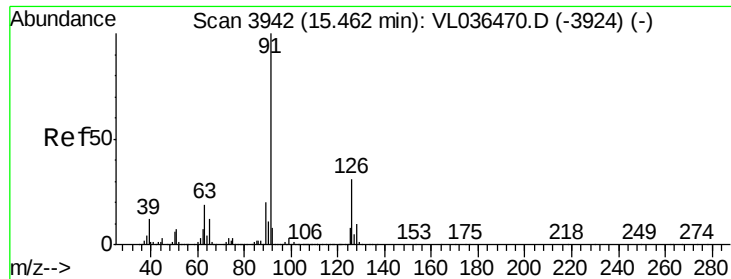
#70
 n-Butylbenzene
 Concen: 0.467 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. 0.03 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	35.4	43.8	65.8#
134	81.4	18.0	27.0#



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

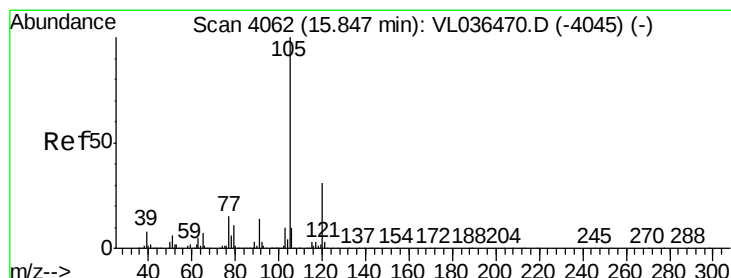
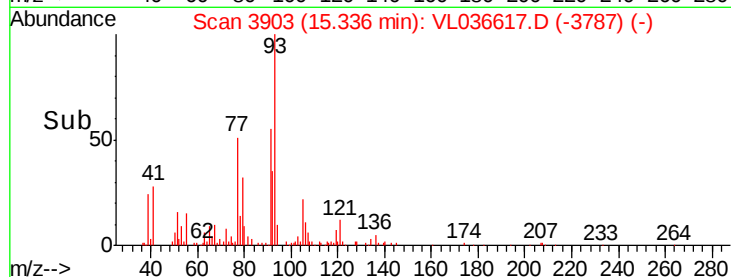
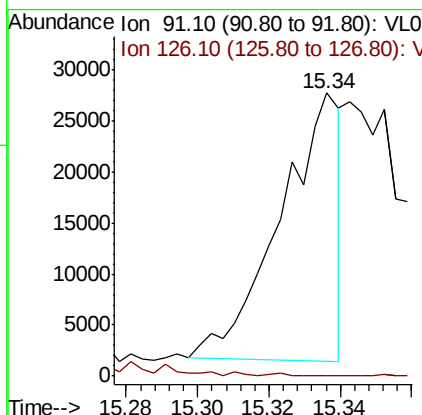
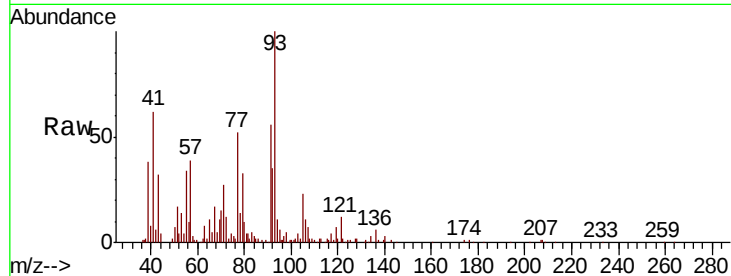




#71
2-Chlorotoluene
Concen: 0.074 ppbv
RT: 15.34 min Scan# 3903
Delta R.T. -0.13 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

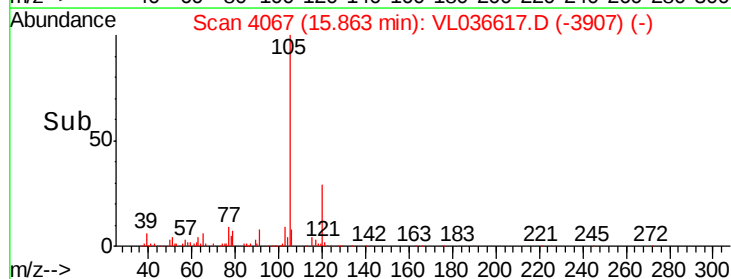
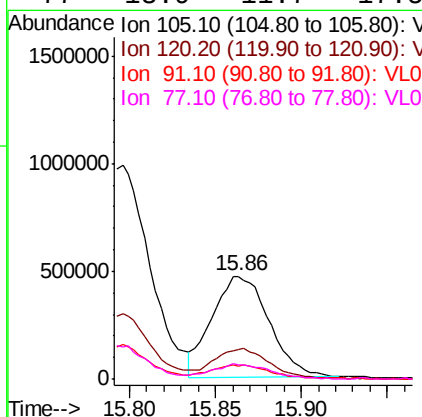
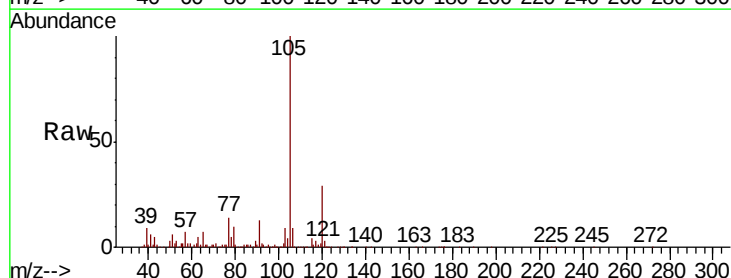
Instrument :
MSVOA_L
ClientSampleId :

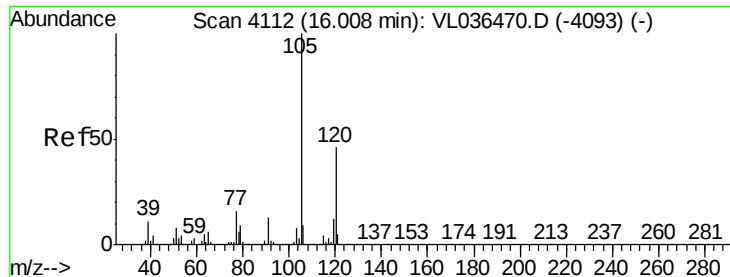
Tot Ion: 91 Resp: 30645
Ion Ratio Lower Upper
91 100
126 12.5 12.1 48.5



#72
4-Ethyltoluene
Concen: 2.414 ppbv
RT: 15.86 min Scan# 4067
Delta R.T. 0.02 min
Lab File: VL036617.D
Acq: 1 Apr 2021 1:28

Tgt Ion:105 Resp: 1085553
Ion Ratio Lower Upper
105 100
120 30.4 24.0 36.0
91 14.0 11.0 16.4
77 13.9 11.7 17.5

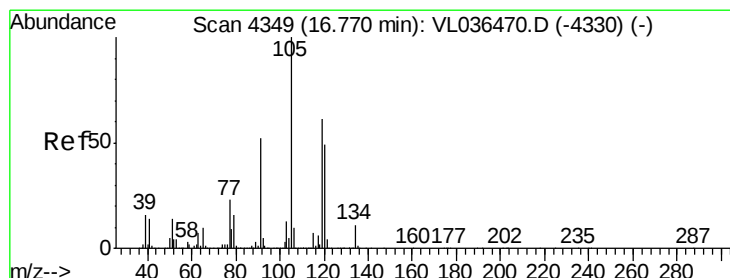
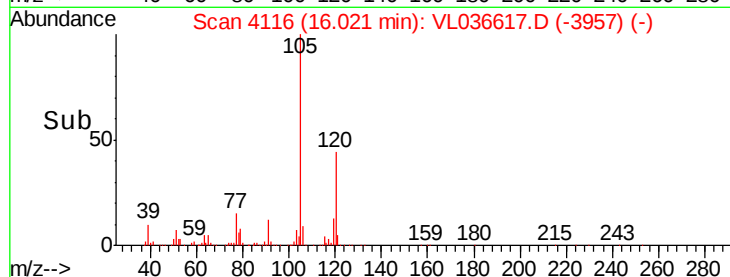
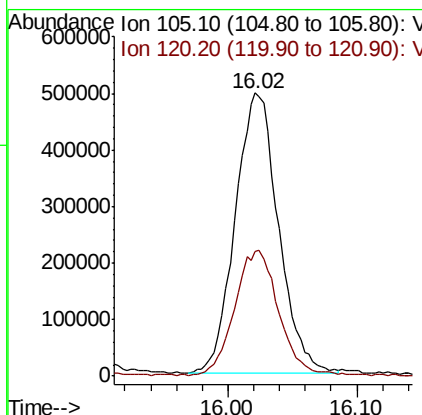
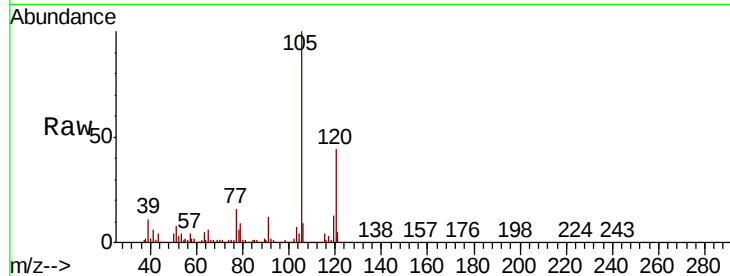




#73
 1,3,5-Trimethylbenzene
 Concen: 2.766 ppbv
 RT: 16.02 min Scan# 4116
 Delta R.T. 0.01 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

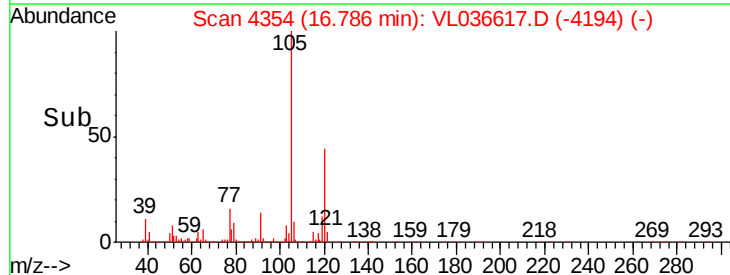
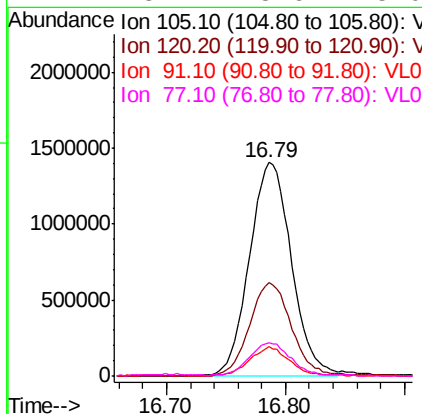
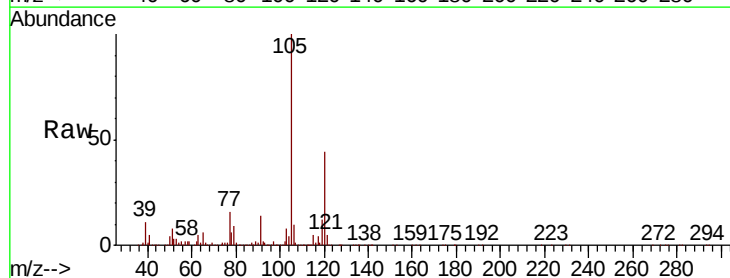
Instrument :
 MSVOA_L
 ClientSampleId :

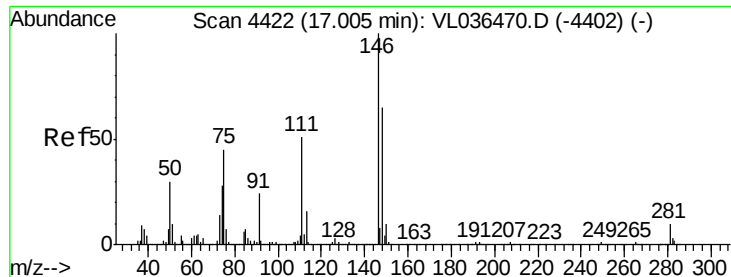
Tot Ion:105 Resp: 1160723
 Ion Ratio Lower Upper
 105 100
 120 44.0 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 7.614 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. 0.02 min
 Lab File: VL036617.D
 Acq: 1 Apr 2021 1:28

Tgt Ion:105 Resp: 3419705
 Ion Ratio Lower Upper
 105 100
 120 43.7 39.2 58.8
 91 13.3 42.6 64.0#
 77 15.1 18.6 28.0#





#75

1,3-Dichlorobenzene

Concen: 0.031 ppbv

RT: 17.05 min Scan# 4435

Delta R.T. 0.04 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

Instrument :

MSVOA_L

ClientSampleId :

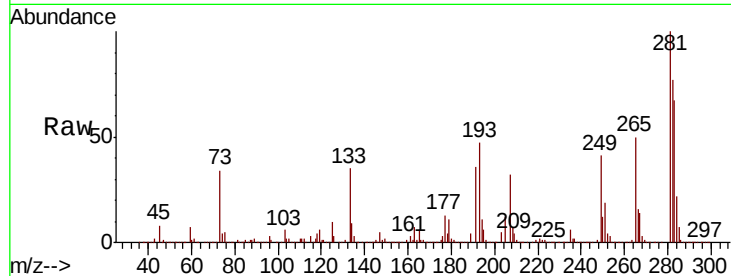
Tot Ion:146 Resp: 7839

Ion Ratio Lower Upper

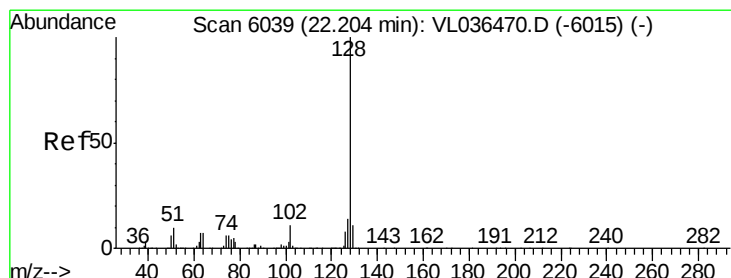
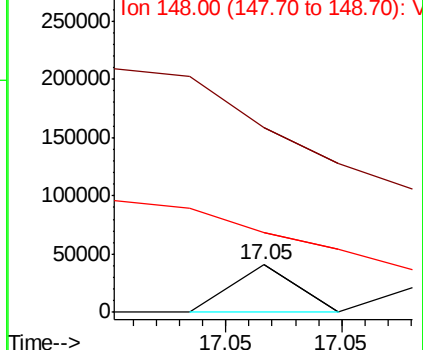
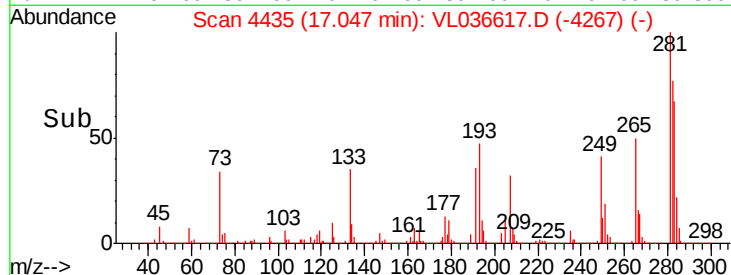
146 100

111 9054.5 24.5 73.5#

148 4058.4 32.3 96.9#



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.142 ppbv

RT: 22.24 min Scan# 6050

Delta R.T. 0.04 min

Lab File: VL036617.D

Acq: 1 Apr 2021 1:28

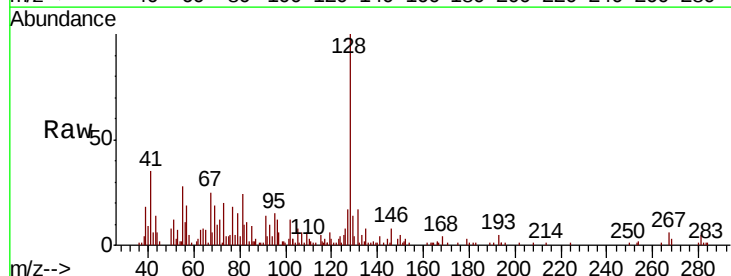
Tgt Ion:128 Resp: 37336

Ion Ratio Lower Upper

128 100

127 15.5 10.9 16.3

129 11.0 9.0 13.4



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

