

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
 Data File : VL035035.D
 Acq On : 15 May 2020 1:26
 Operator : SY/AP
 Sample : L2566-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 15 05:37:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	992427	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2307754	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	2304825	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2053573	11.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	36882	0.262	ppbv 96
3) Chlorodifluoromethane	2.94	51	29033	0.256	ppbv # 91
4) Chloromethane	3.10	50	11930	0.184	ppbv 99
9) Propene	2.97	41	31440	0.639	ppbv 88
10) Heptane	8.12	43	73640	0.598	ppbv 97
11) Trichlorofluoromethane	3.92	101	47287	0.326	ppbv 89
12) 1,1,2-Trichlorotrifluoroet	4.46	101	5846	0.057	ppbv # 63
13) Ethanol	3.58	45	1328131	81.860	ppbv 99
15) Acetone	3.81	43	1694787	12.917	ppbv 98
16) 1,3-Butadiene	3.26	39	25485	0.451	ppbv # 26
17) tert-Butyl alcohol	4.28	59	112029	0.960	ppbv # 79
19) Isopropyl Alcohol	3.95	45	905745	10.352	ppbv # 98
20) Methylene Chloride	4.32	84	308512	7.103	ppbv 86
21) Allyl Chloride	4.34	41	3142	0.042	ppbv # 1
23) Vinyl Acetate	5.04	43	87906	0.528	ppbv # 1
25) Ethyl Acetate	5.67	43	296868	1.347	ppbv # 91
26) Hexane	5.67	57	268552	2.811	ppbv # 56
27) Carbon Disulfide	4.52	76	5303	0.047	ppbv # 1
29) Chloroform	5.73	83	5483	0.035	ppbv 98
30) Cyclohexane	7.13	84	49666	0.674	ppbv # 92
31) cis-1,2-Dichloroethene	5.54	61	9132	0.098	ppbv # 83
32) 1,1,1-Trichloroethane	6.50	97	10069	0.071	ppbv # 1
34) 2-Butanone	5.23	43	141829	0.989	ppbv 99
36) Benzene	6.89	78	67564	0.355	ppbv 95
38) Trichloroethene	7.84	130	633387	8.593	ppbv 97
39) 1,2-Dichloropropane	7.18	63	632475	8.292	ppbv # 25
40) 1,4-Dioxane	7.85	88	1972	0.064	ppbv # 1
41) Tetrahydrofuran	6.04	42	4566	0.060	ppbv # 1
43) Methyl Methacrylate	8.02	69	3022	0.038	ppbv # 1
44) 2,2,4-Trimethylpentane	7.87	57	797271	2.357	ppbv 94
51) 2-Hexanone	10.14	43	14509	0.091	ppbv # 58
52) Tetrachloroethene	11.25	164	3933969	58.148	ppbv 98
53) Toluene	9.82	91	1951520	9.676	ppbv 100
58) Ethyl Benzene	12.74	91	325037	1.140	ppbv 97
59) m/p-Xylene	13.00	91	526638	2.100	ppbv 88
60) o-Xylene	13.72	91	315039	1.273	ppbv 97
61) Styrene	13.56	104	625946	3.997	ppbv 99
62) Isopropylbenzene	14.70	105	5757649	15.585	ppbv 99
63) 1,1,2,2-Tetrachloroethane	13.72	83	81083	0.416	ppbv # 25
64) n-propylbenzene	15.60	120	3663	0.039	ppbv # 1
69) p-Isopropyltoluene	17.69	119	42765	0.116	ppbv # 57

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

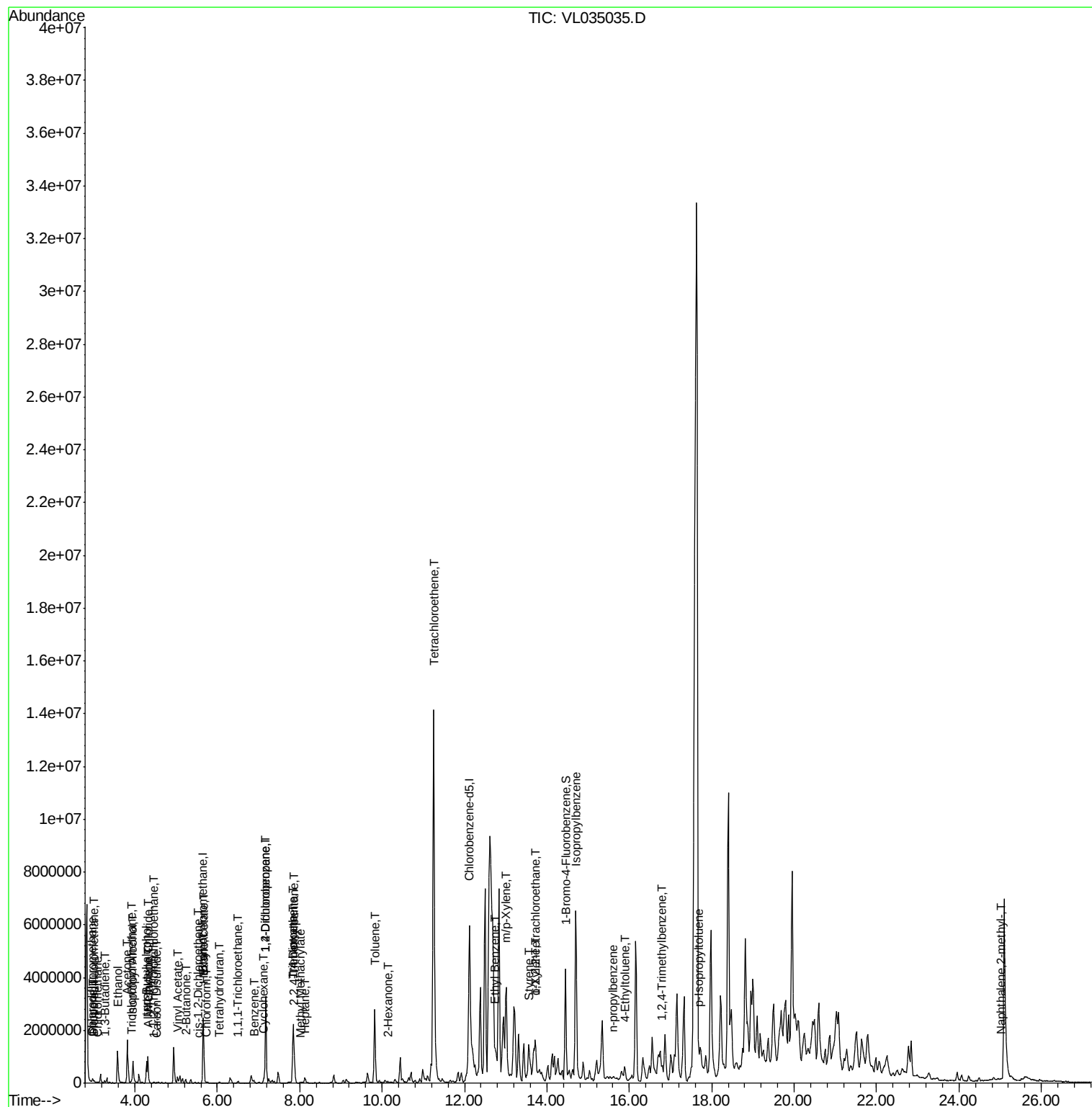
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.88	105	66311	0.240	ppbv #	77
74) 1,2,4-Trimethylbenzene	16.80	105	140490	0.479	ppbv #	70
80) Naphthalene,2-methyl-	25.01	142	6543	0.117	ppbv #	88

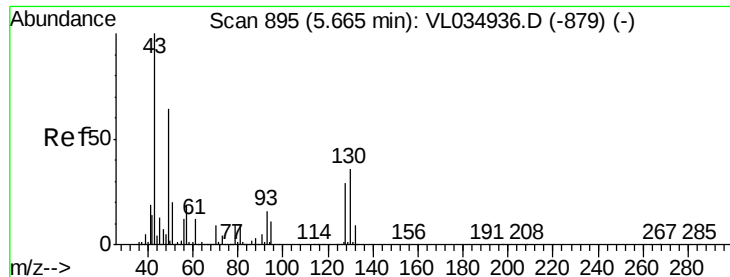
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampled :

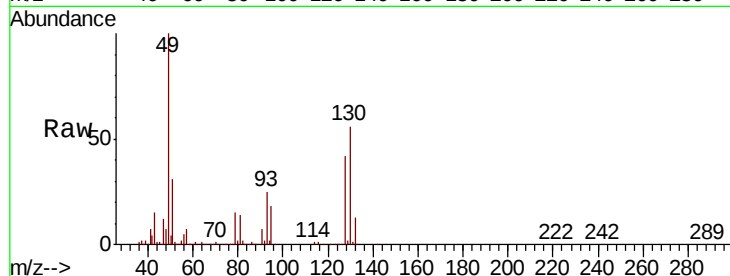
Tot Ion: 49 Resp: 992427

Ion Ratio Lower Upper

49 100

128 44.3 22.1 66.5

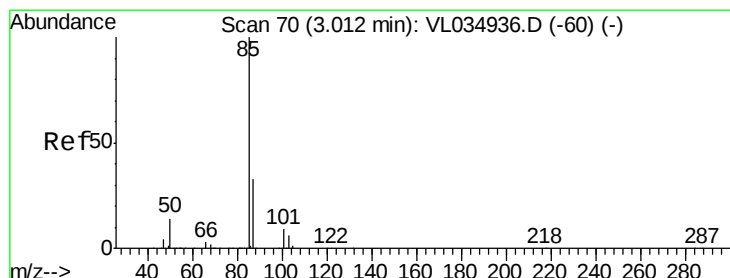
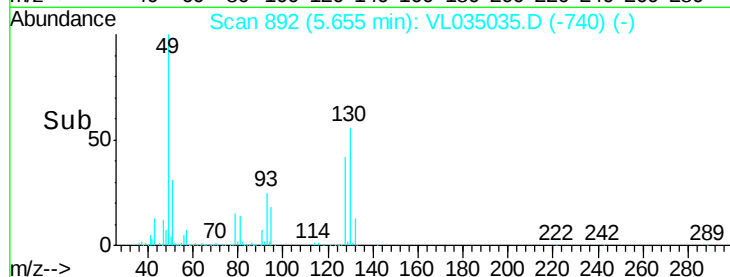
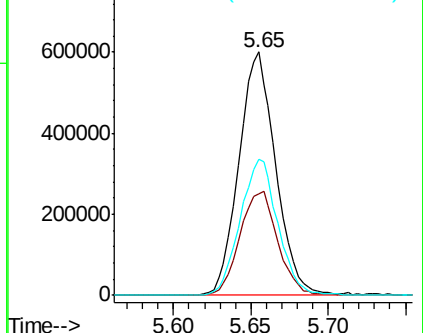
130 57.8 29.1 87.3



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: 0.262 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL035035.D

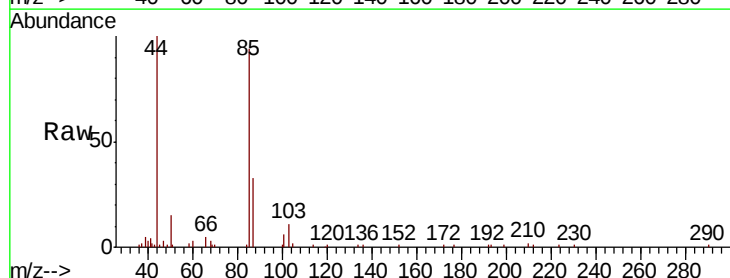
Acq: 15 May 2020 1:26

Tgt Ion: 85 Resp: 36882

Ion Ratio Lower Upper

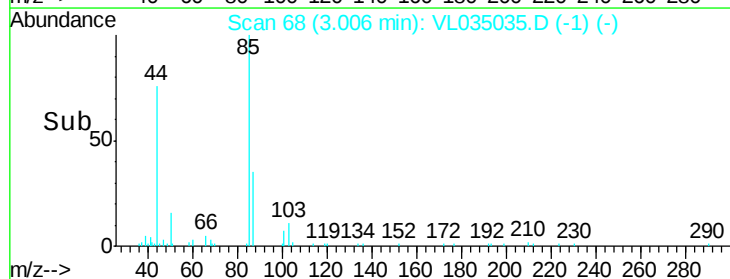
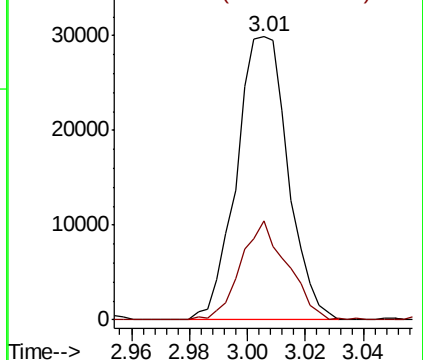
85 100

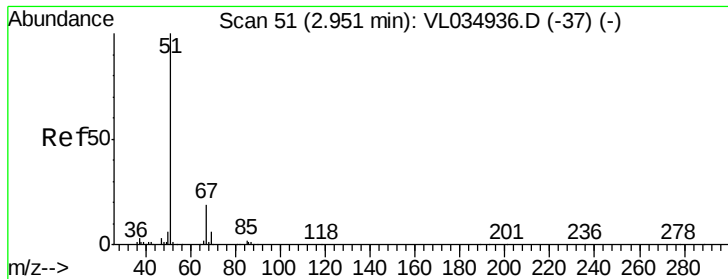
87 34.9 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.256 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

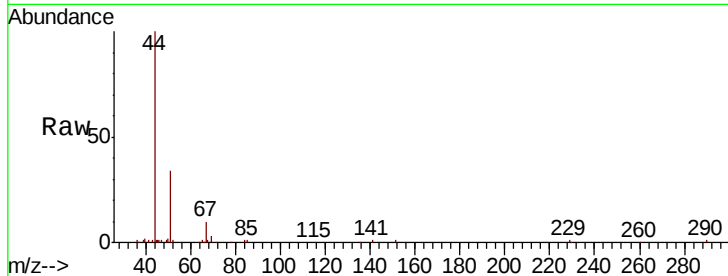
ClientSampleId :

Tot Ion: 51 Resp: 29033

Ion Ratio Lower Upper

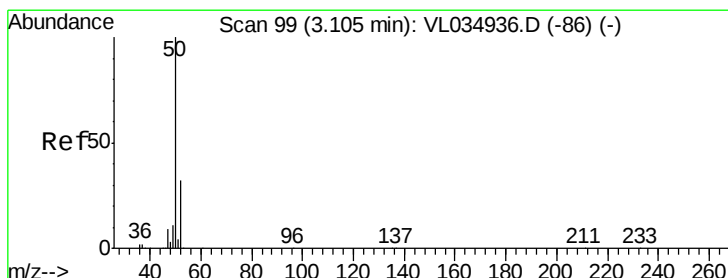
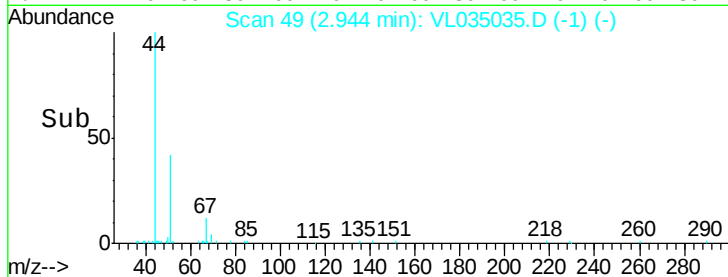
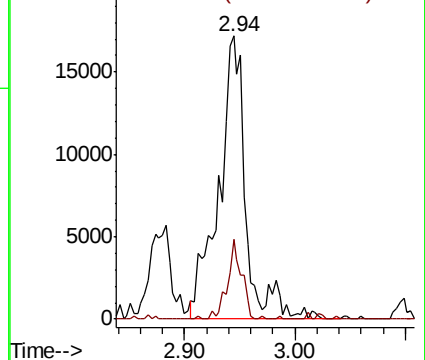
51 100

67 15.0 15.0 22.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.184 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL035035.D

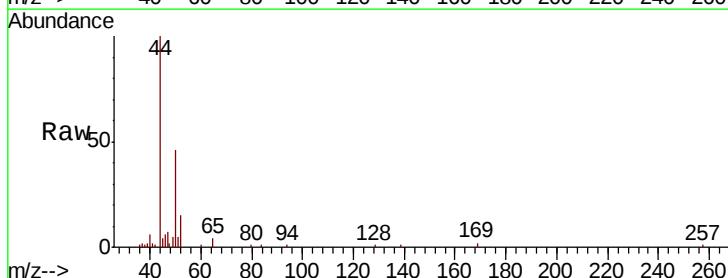
Acq: 15 May 2020 1:26

Tgt Ion: 50 Resp: 11930

Ion Ratio Lower Upper

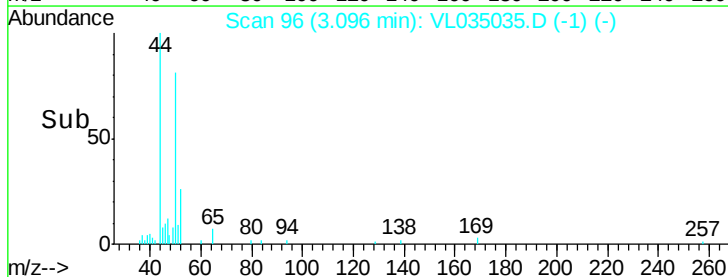
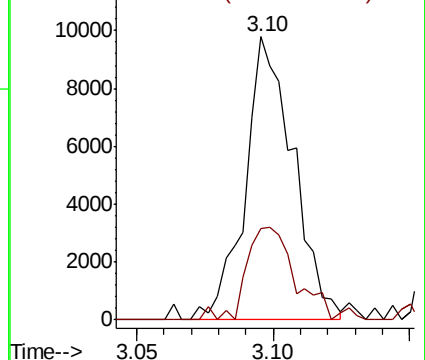
50 100

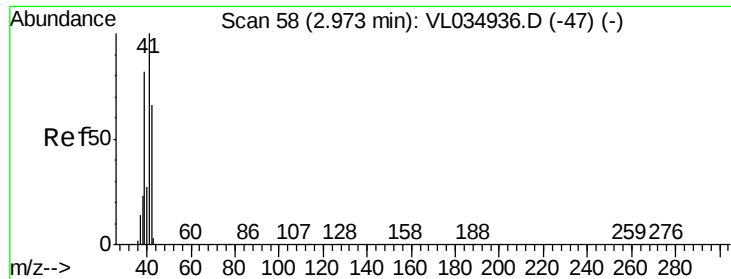
52 32.1 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.639 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

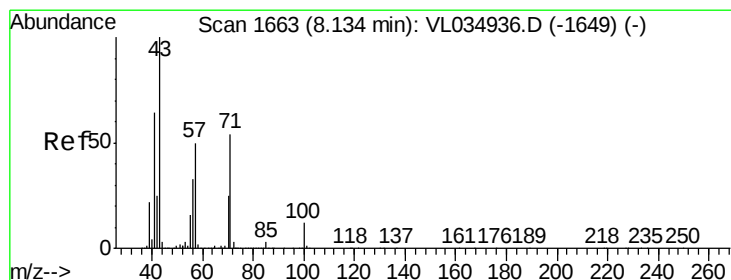
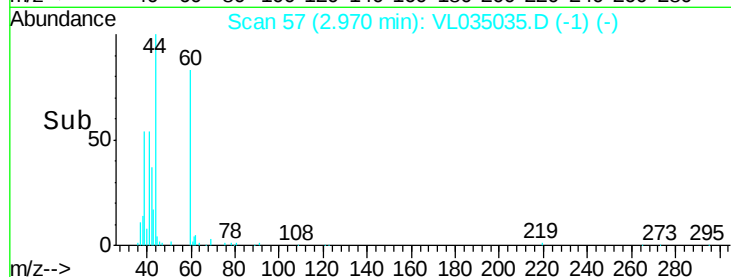
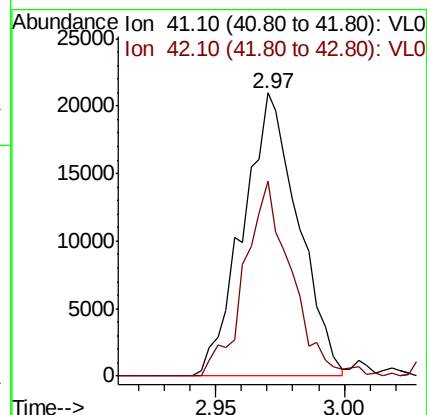
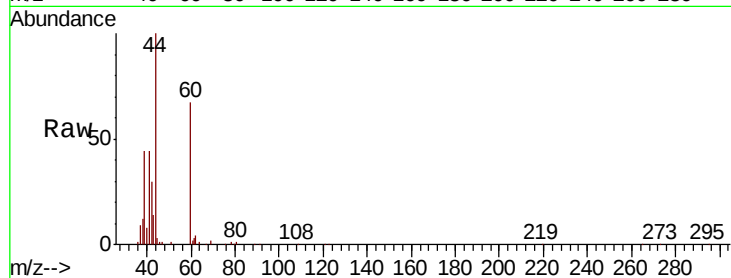
ClientSampled :

Tot Ion: 41 Resp: 31440

Ion Ratio Lower Upper

41 100

42 58.5 54.5 81.7



#10

Heptane

Concen: 0.598 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL035035.D

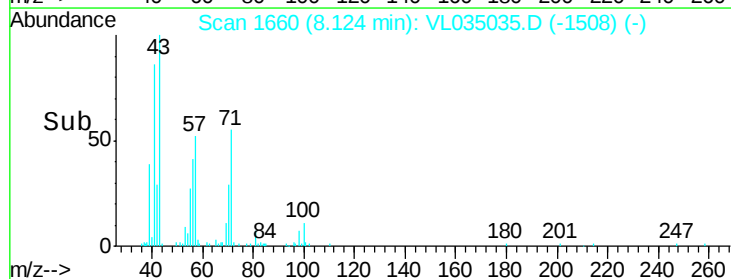
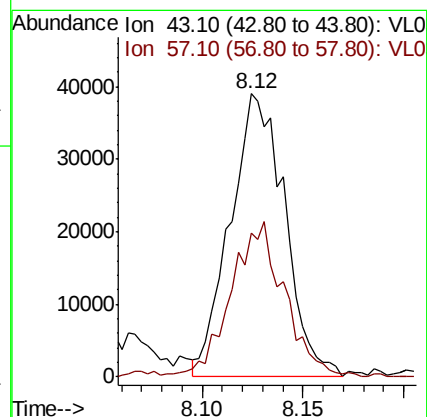
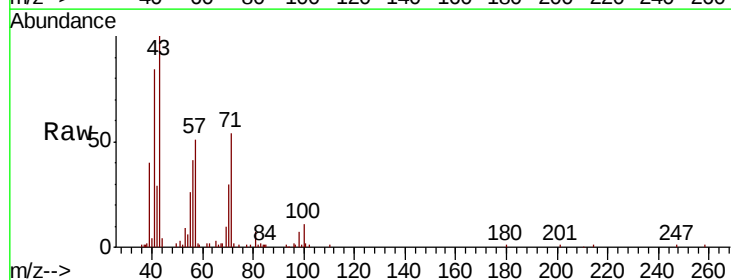
Acq: 15 May 2020 1:26

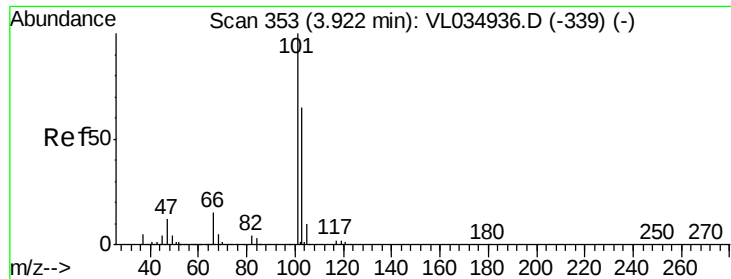
Tgt Ion: 43 Resp: 73640

Ion Ratio Lower Upper

43 100

57 53.7 41.1 61.7

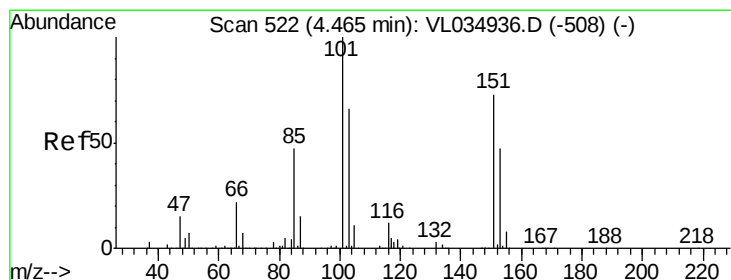
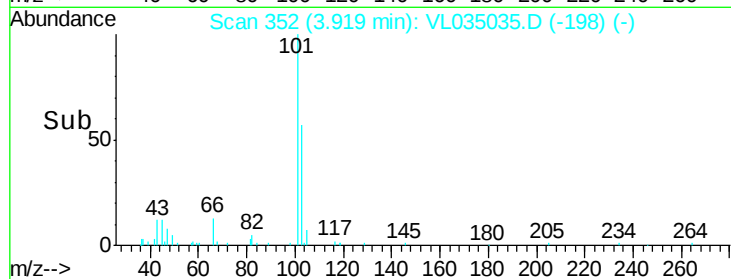
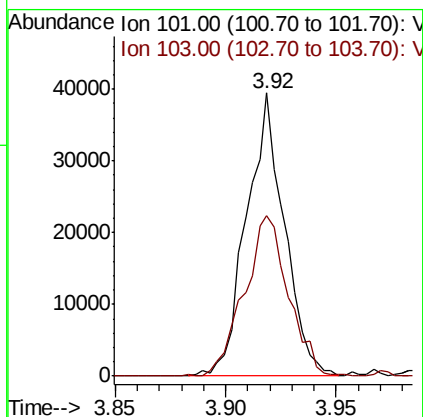
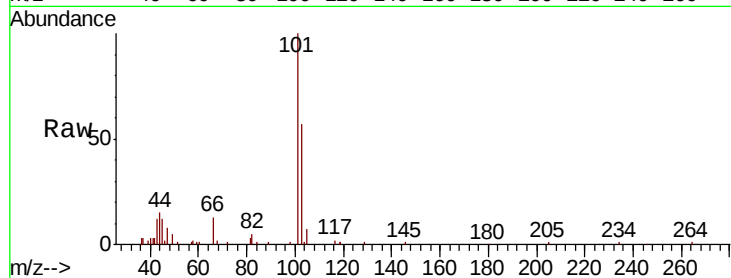




#11
 Trichlorofluoromethane
 Concen: 0.326 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

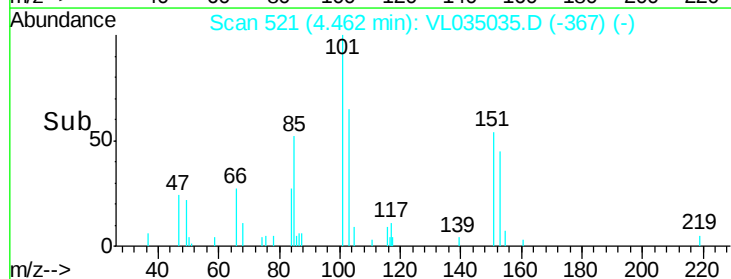
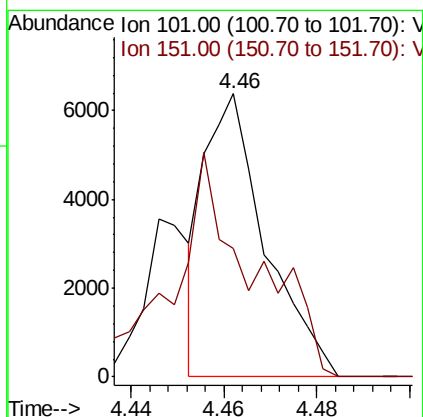
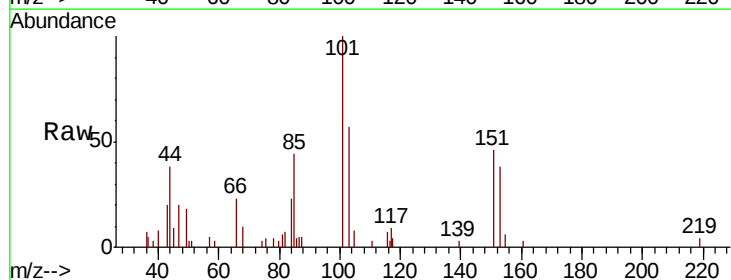
Instrument :
 MSVOA_L
 ClientSampleId :

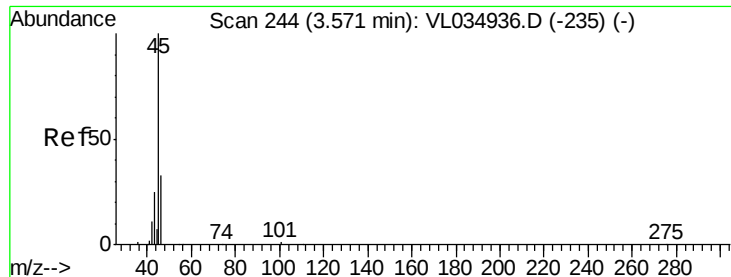
Tot Ion:101 Resp: 47287
 Ion Ratio Lower Upper
 101 100
 103 56.2 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.057 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Tgt Ion:101 Resp: 5846
 Ion Ratio Lower Upper
 101 100
 151 103.1 57.6 86.4#

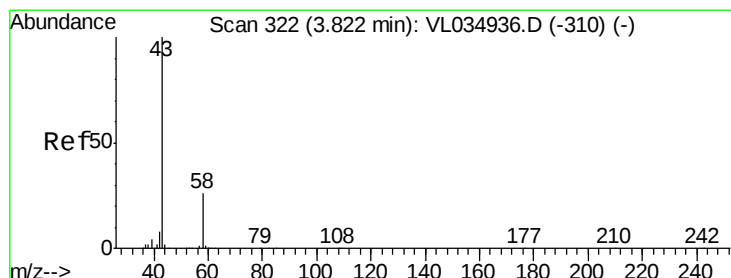
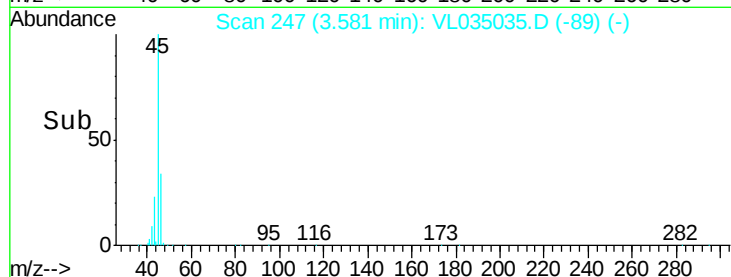
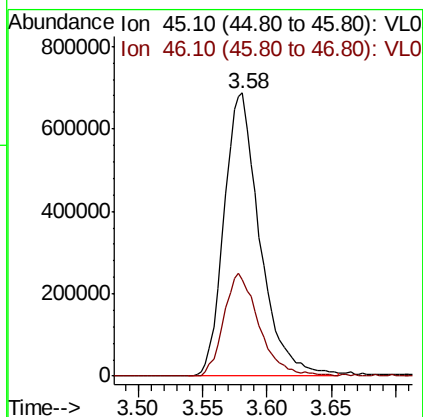
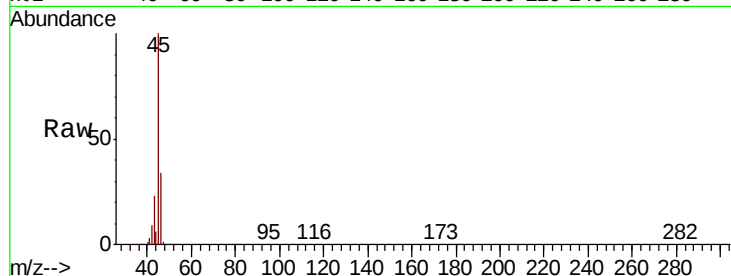




#13
Ethanol
Concen: 81.860 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

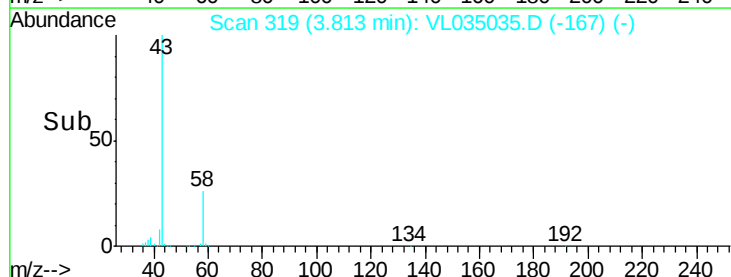
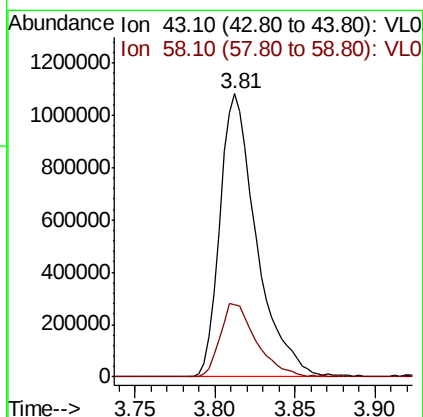
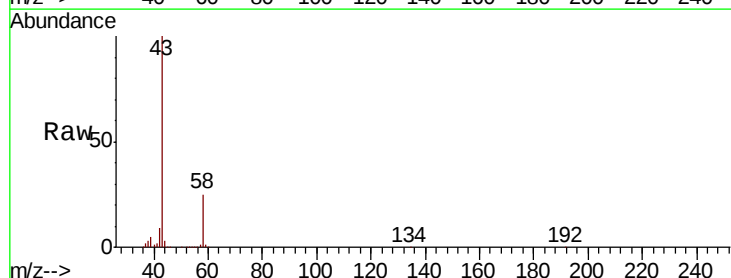
Instrument :
MSVOA_L
ClientSampleId :

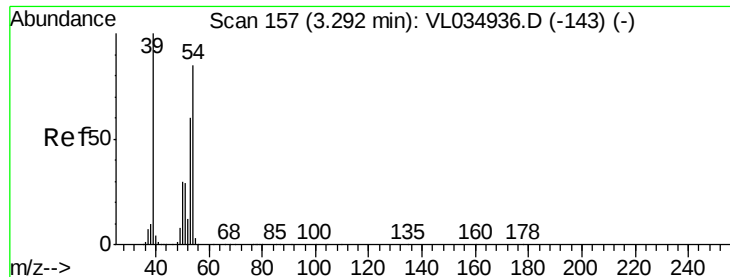
Tot Ion: 45 Resp: 1328131
Ion Ratio Lower Upper
45 100
46 36.2 14.3 57.3



#15
Acetone
Concen: 12.917 ppbv
RT: 3.81 min Scan# 319
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 43 Resp: 1694787
Ion Ratio Lower Upper
43 100
58 25.9 21.7 32.5





#16

1,3-Butadiene

Concen: 0.451 ppbv

RT: 3.26 min Scan# 148

Delta R.T. -0.03 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

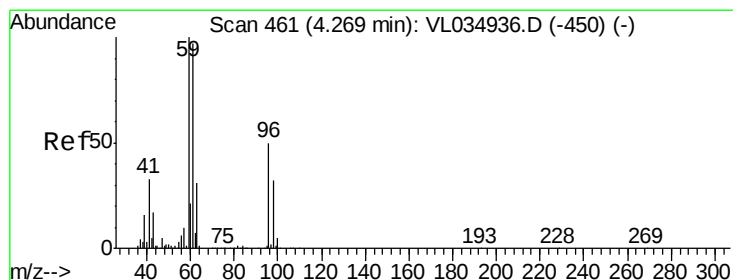
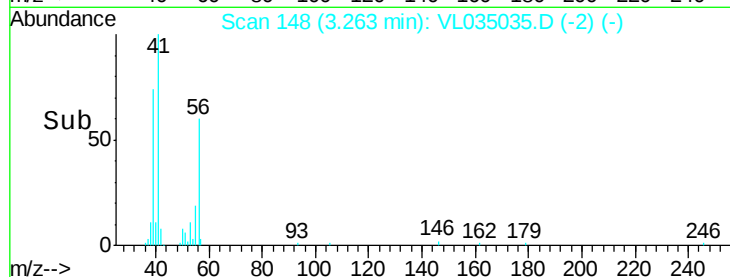
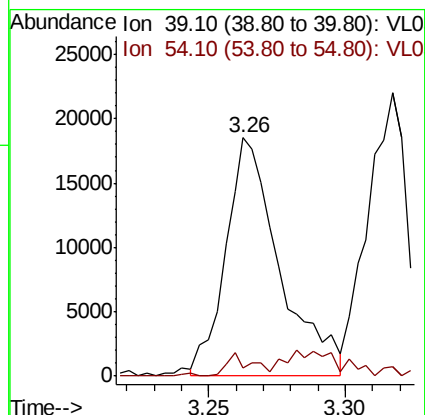
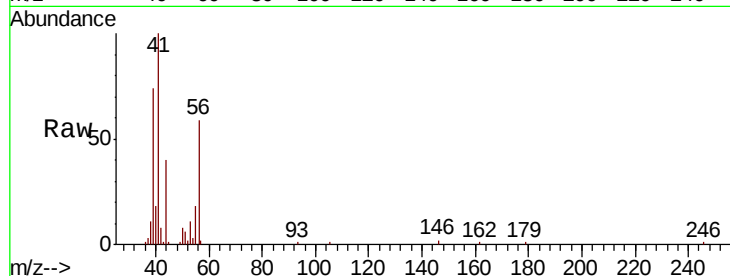
ClientSampleId :

Tot Ion: 39 Resp: 25485

Ion Ratio Lower Upper

39 100

54 16.7 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 0.960 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL035035.D

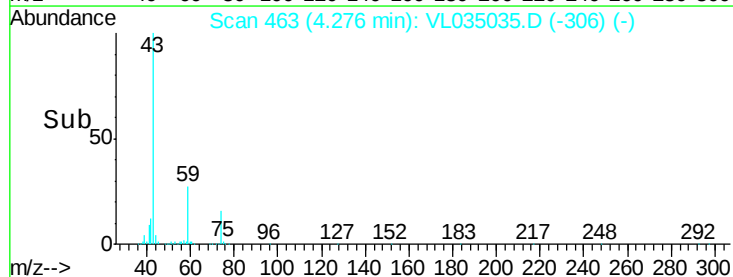
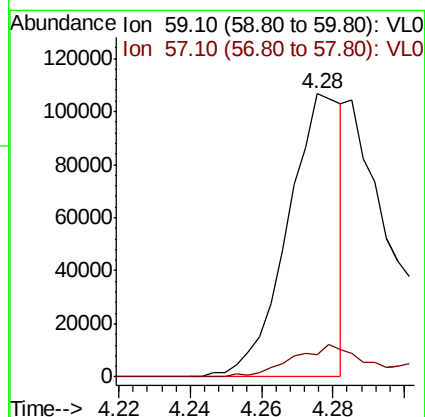
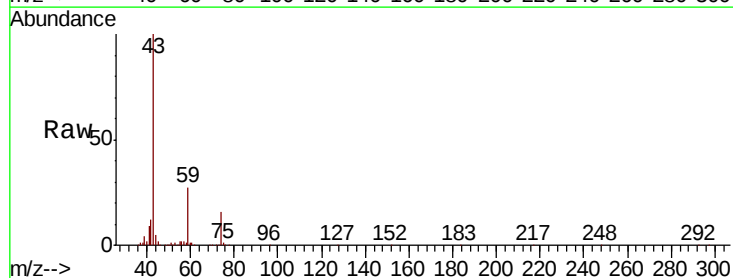
Acq: 15 May 2020 1:26

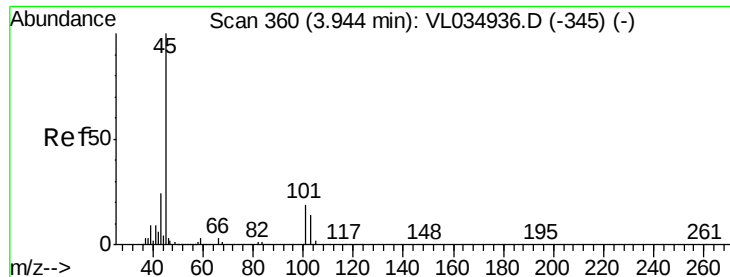
Tgt Ion: 59 Resp: 112029

Ion Ratio Lower Upper

59 100

57 18.7 8.7 13.1#



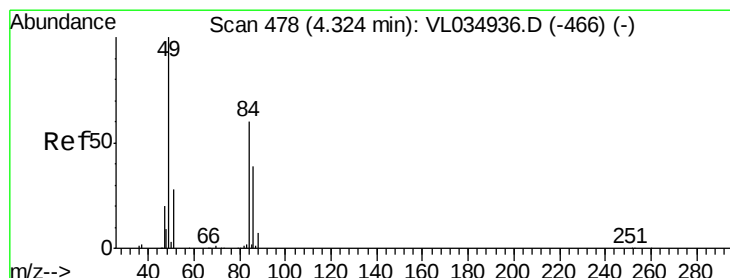
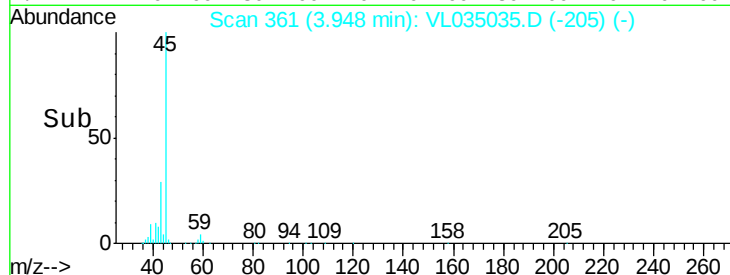
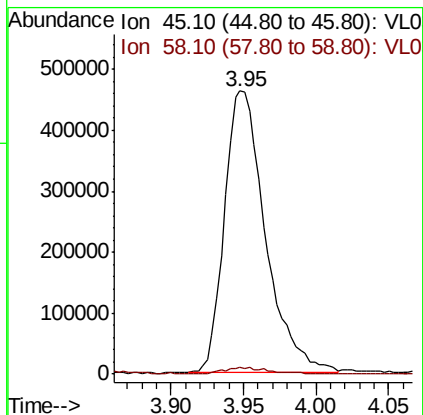
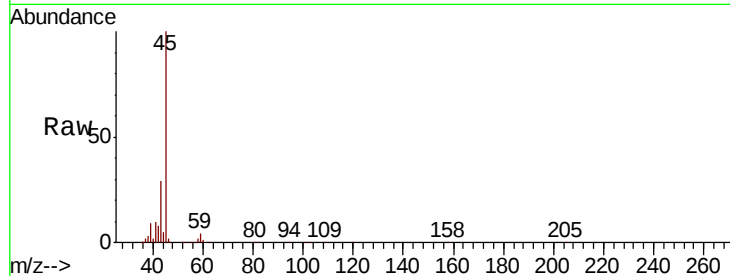


#19

Isopropyl Alcohol
 Concen: 10.352 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Instrument :
 MSVOA_L
 ClientSampleId :

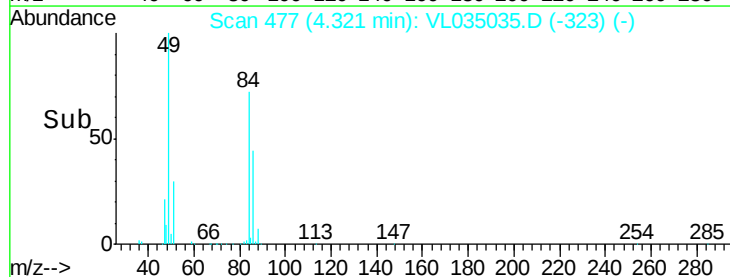
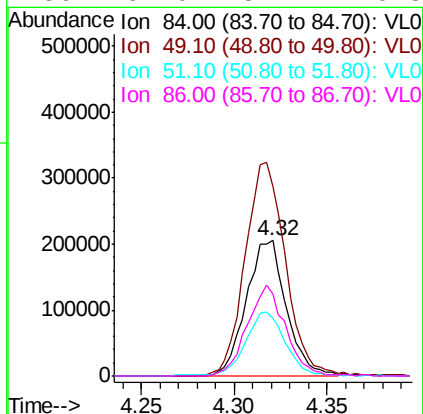
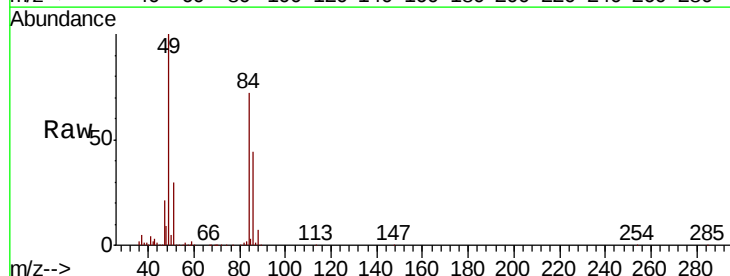
Tot Ion: 45 Resp: 905745
 Ion Ratio Lower Upper
 45 100
 58 2.6 1.7 2.5#

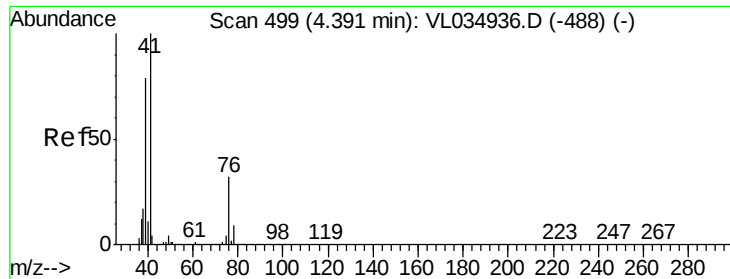


#20

Methylene Chloride
 Concen: 7.103 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.00 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Tgt Ion: 84 Resp: 308512
 Ion Ratio Lower Upper
 84 100
 49 139.7 132.5 198.7
 51 41.3 38.4 57.6
 86 61.0 51.2 76.8

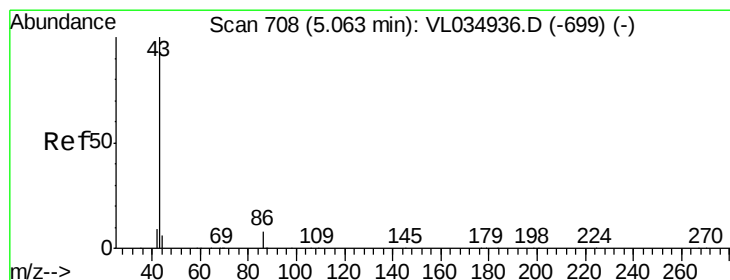
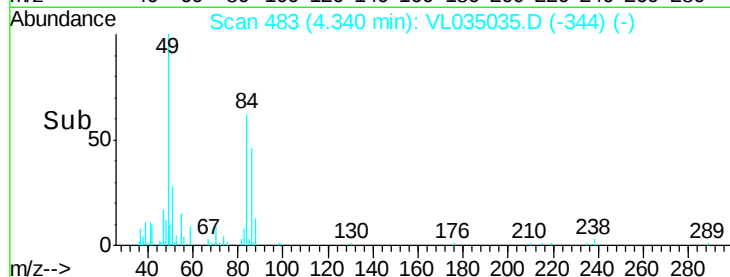
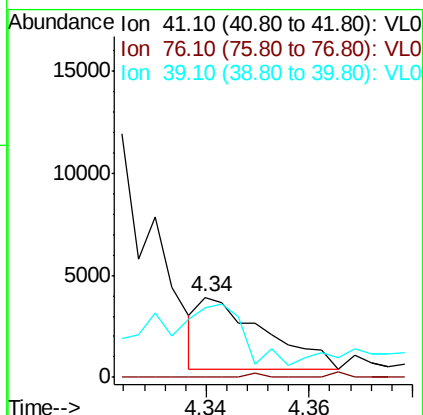
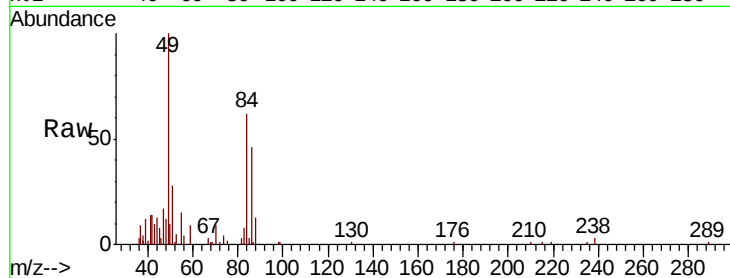




#21
Allvl Chloride
Concen: 0.042 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.05 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

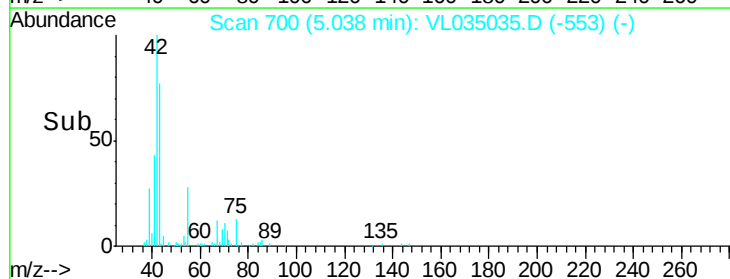
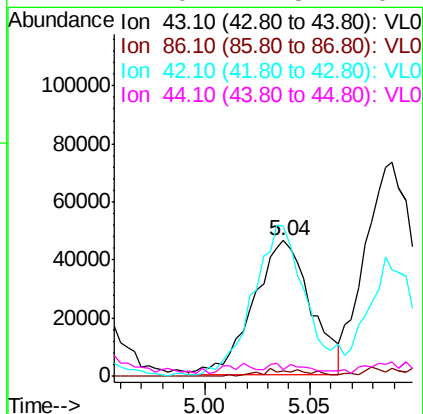
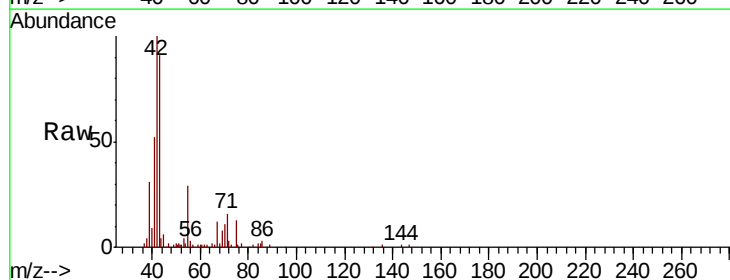
Instrument :
MSVOA_L
ClientSampleId :

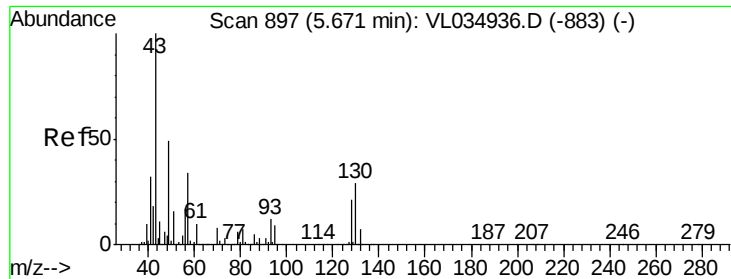
Tot Ion: 41 Resp: 3142
Ion Ratio Lower Upper
41 100
76 0.0 23.6 35.4#
39 182.4 61.9 92.9#



#23
Vinyl Acetate
Concen: 0.528 ppbv
RT: 5.04 min Scan# 700
Delta R.T. -0.03 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 43 Resp: 87906
Ion Ratio Lower Upper
43 100
86 3.7 5.5 8.3#
42 114.3 8.0 12.0#
44 1.0 4.5 6.7#





#25

Ethyl Acetate

Concen: 1.347 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampleID :

Tot Ion: 43 Resp: 296868

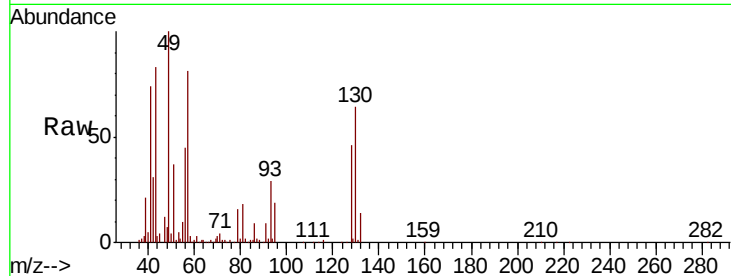
Ion Ratio Lower Upper

43 100

45 7.3 8.1 12.1#

61 5.3 7.8 11.8#

70 5.3 6.0 9.0#



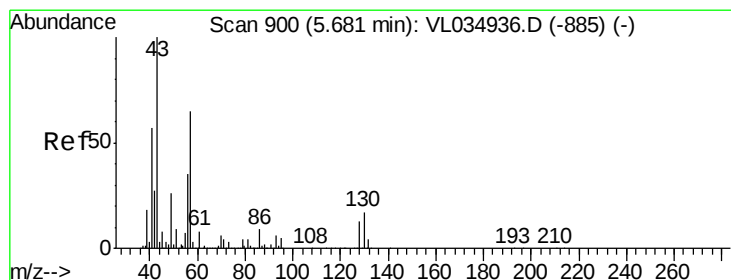
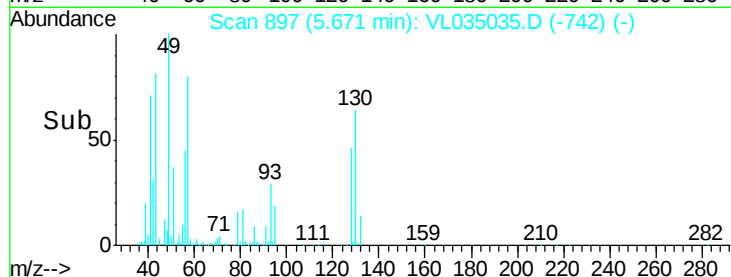
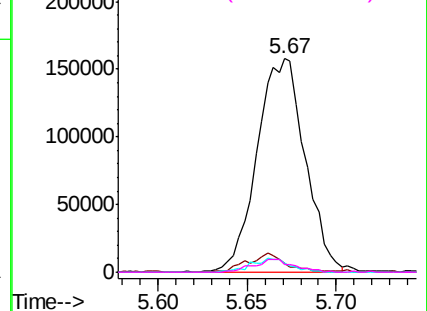
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 2.811 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Tgt Ion: 57 Resp: 268552

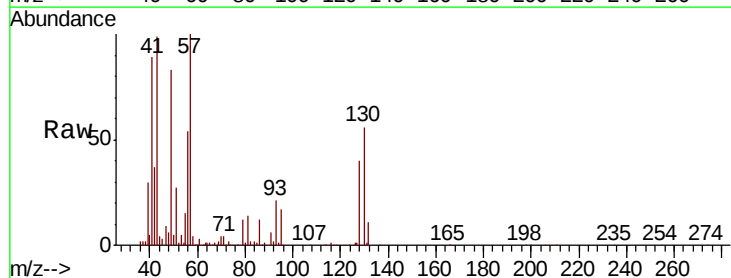
Ion Ratio Lower Upper

57 100

41 91.3 72.7 109.1

43 111.7 182.1 273.1#

56 53.5 42.2 63.2



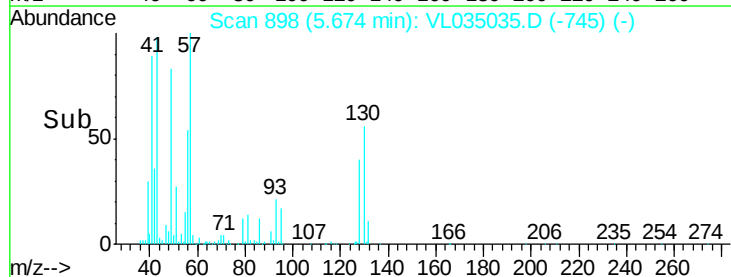
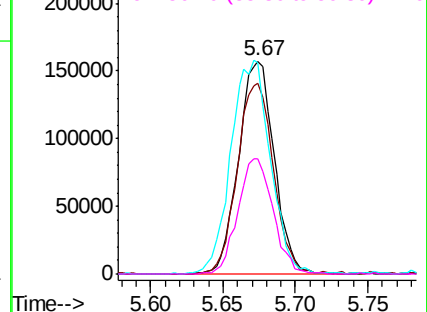
Abundance

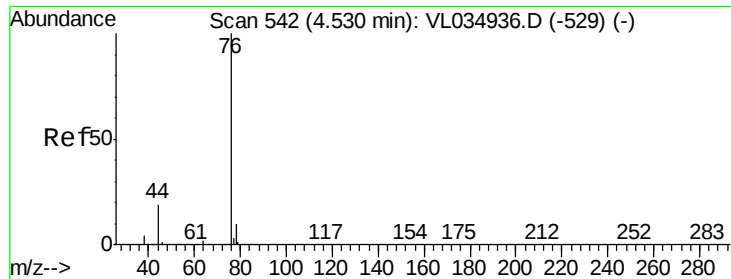
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

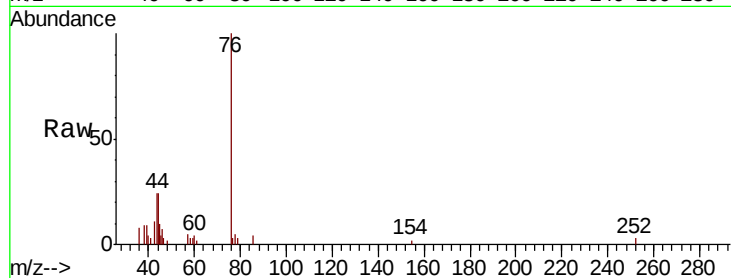
Tot Ion: 76 Resp: 5303

Ion Ratio Lower Upper

76 100

44 93.7 15.2 22.8#

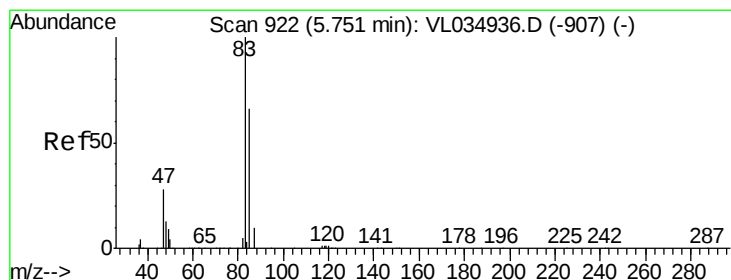
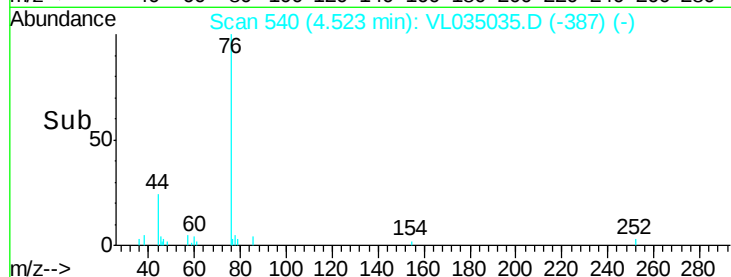
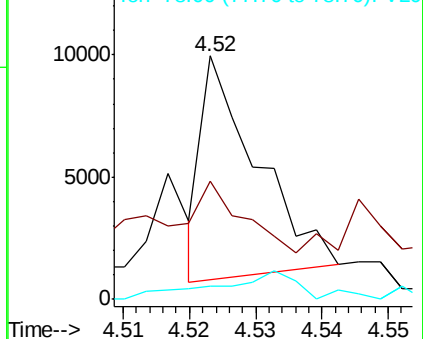
78 21.6 7.7 11.5#



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: 0.035 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.02 min

Lab File: VL035035.D

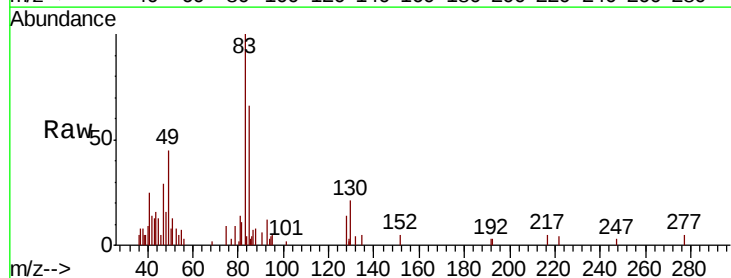
Acq: 15 May 2020 1:26

Tgt Ion: 83 Resp: 5483

Ion Ratio Lower Upper

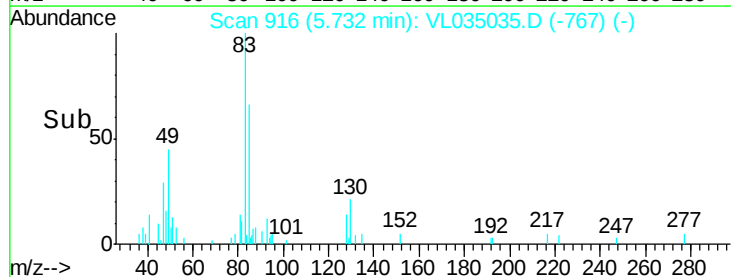
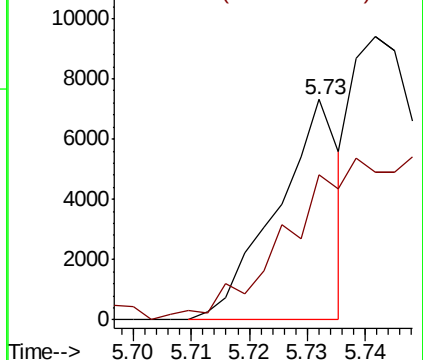
83 100

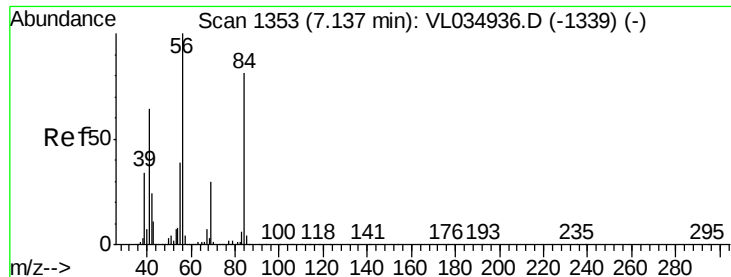
85 64.7 53.0 79.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

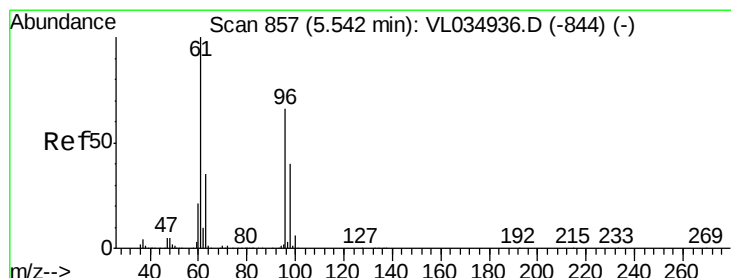
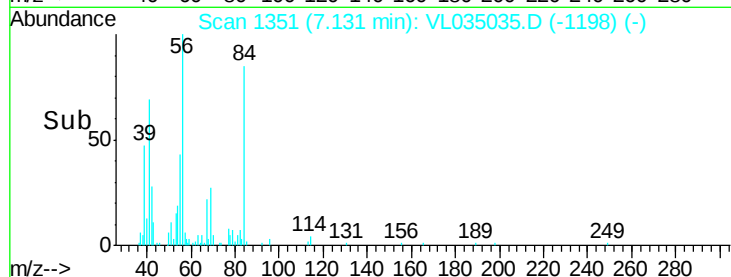
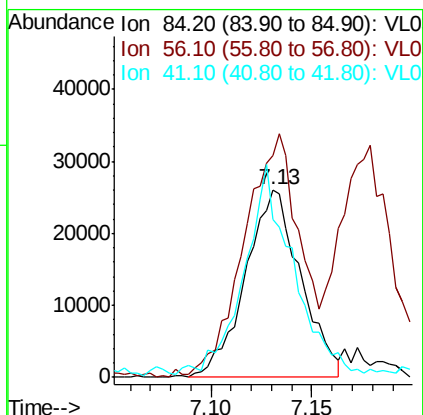
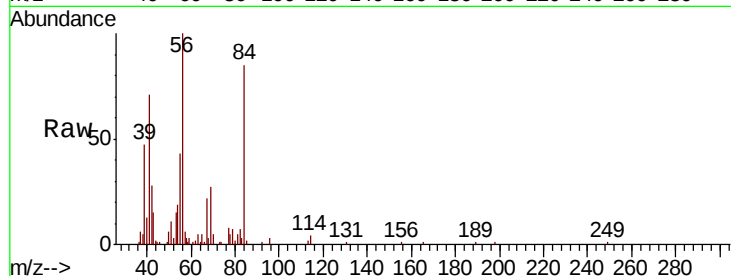




#30
Cvclohexane
Concen: 0.674 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

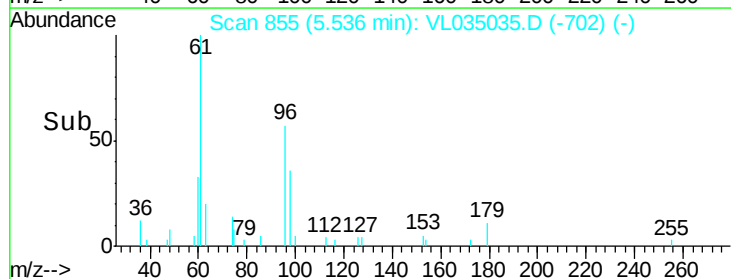
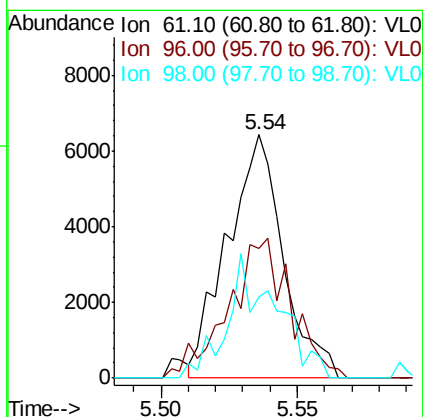
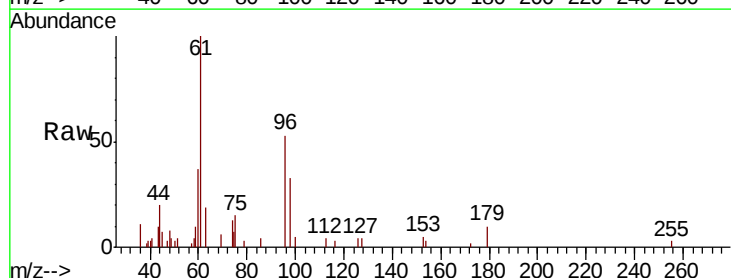
Instrument :
MSVOA_L
ClientSampleId :

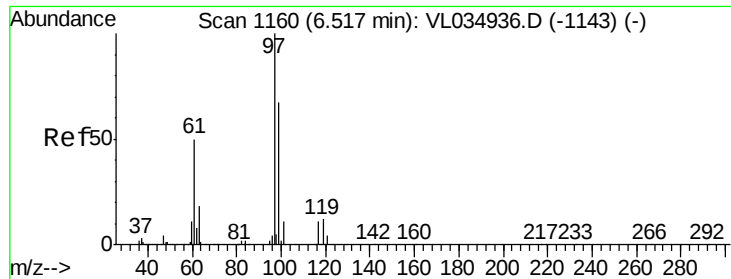
Tot Ion: 84 Resp: 49666
Ion Ratio Lower Upper
84 100
56 136.9 111.4 167.2
41 100.6 66.7 100.1#



#31
cis-1,2-Dichloroethene
Concen: 0.098 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 61 Resp: 9132
Ion Ratio Lower Upper
61 100
96 49.4 53.0 79.6#
98 33.4 32.2 48.2





#32

1,1,1-Trichloroethane

Concen: 0.071 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampled :

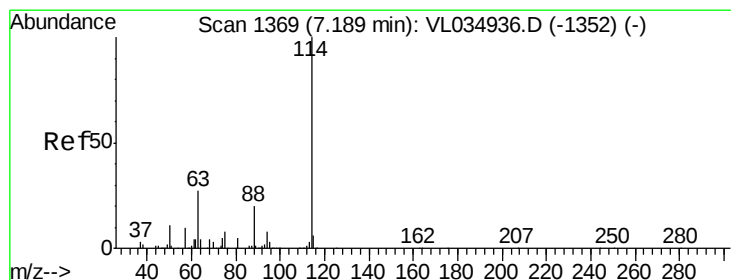
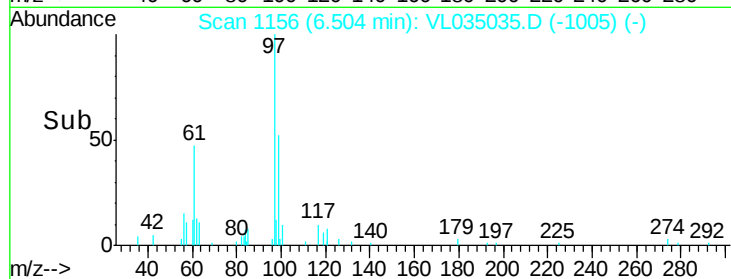
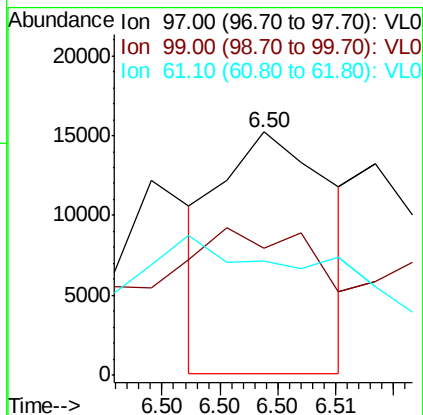
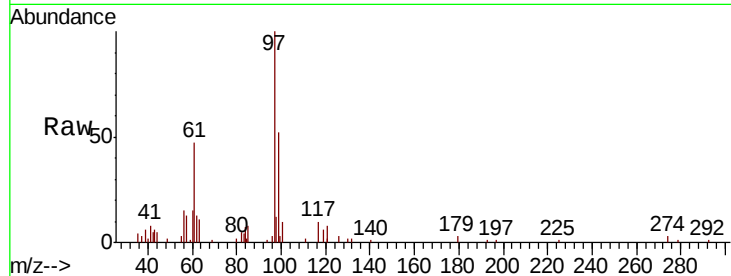
Tot Ion: 97 Resp: 10069

Ion Ratio Lower Upper

97 100

99 157.8 52.1 78.1#

61 148.1 41.8 62.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

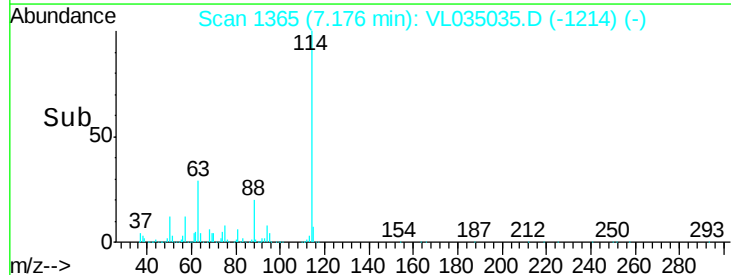
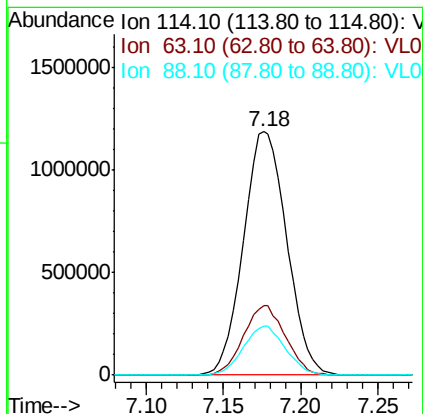
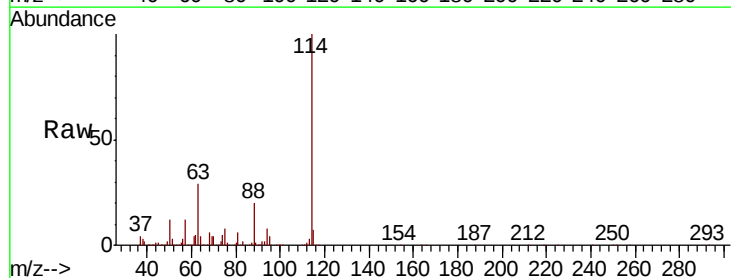
Tgt Ion: 114 Resp: 2307754

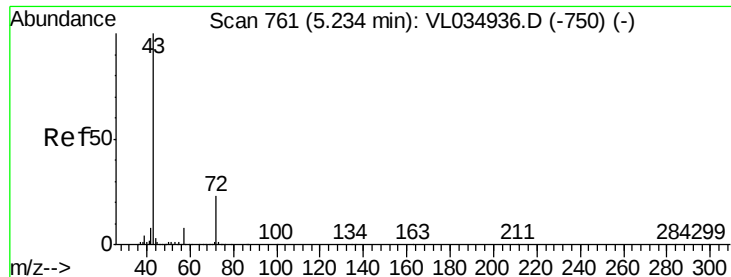
Ion Ratio Lower Upper

114 100

63 27.8 22.2 33.4

88 19.6 15.5 23.3

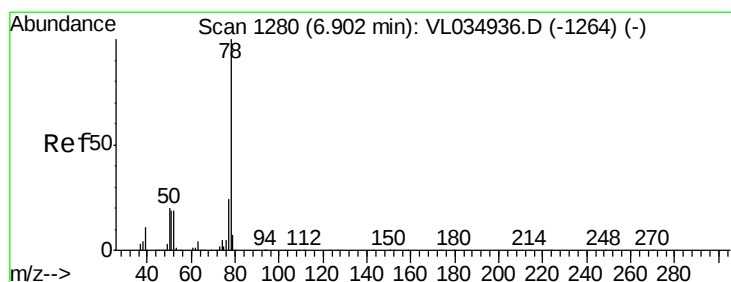
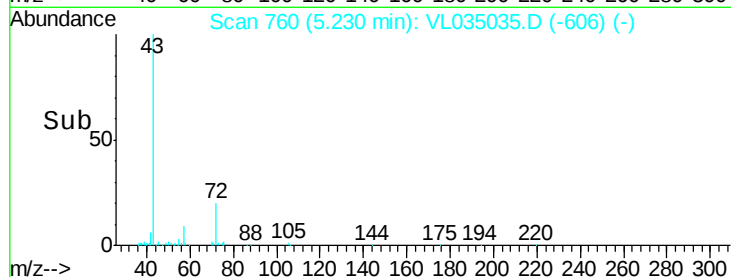
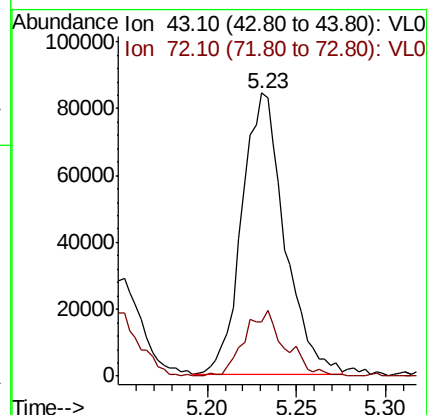
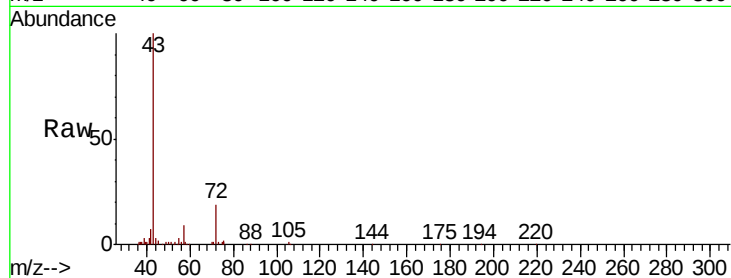




#34
2-Butanone
Concen: 0.989 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.00 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

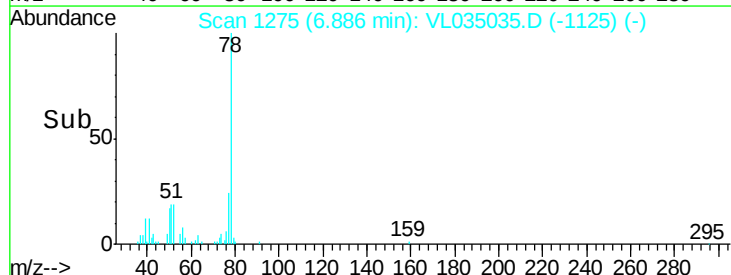
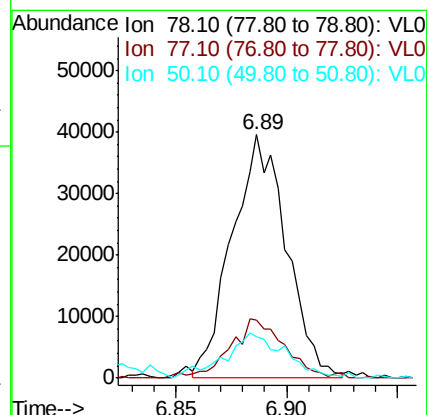
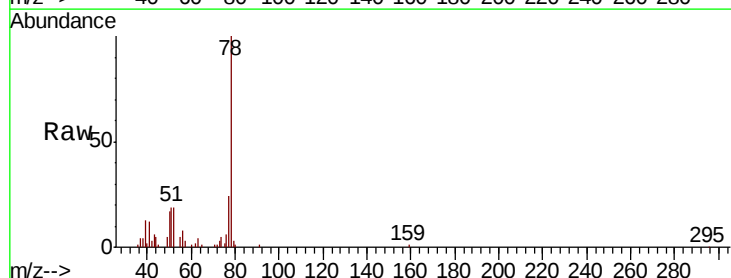
Instrument :
MSVOA_L
ClientSampleId :

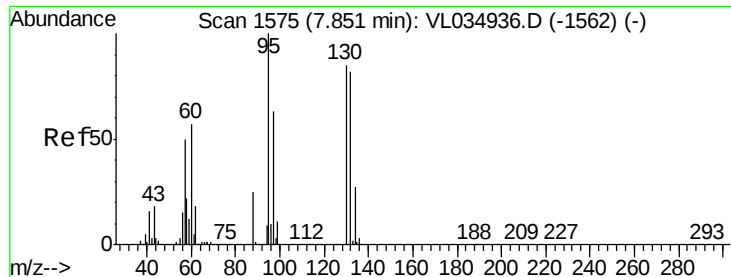
Tot Ion: 43 Resp: 141829
Ion Ratio Lower Upper
43 100
72 22.0 18.0 27.0



#36
Benzene
Concen: 0.355 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 78 Resp: 67564
Ion Ratio Lower Upper
78 100
77 22.5 19.0 28.6
50 16.3 15.8 23.8





#38

Trichloroethene

Concen: 8.593 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 633387

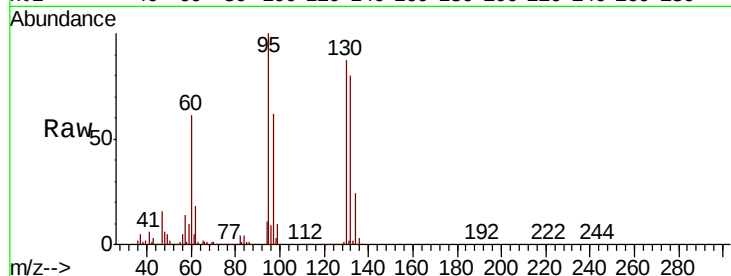
Ion Ratio Lower Upper

130 100

95 114.6 93.4 140.0

132 91.4 76.4 114.6

97 71.1 58.5 87.7

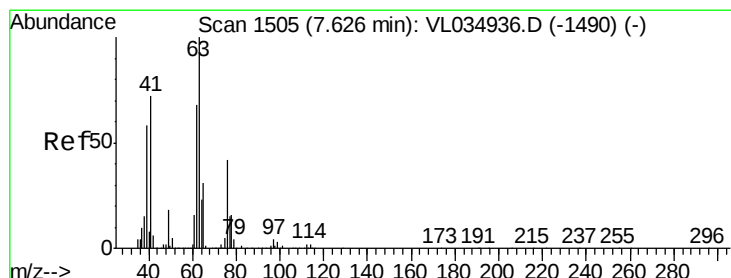
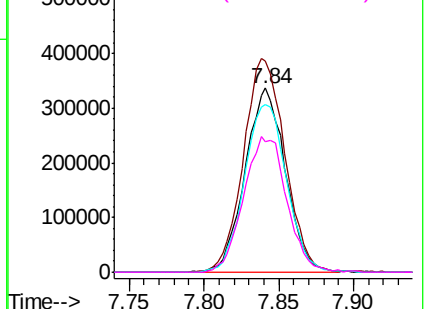
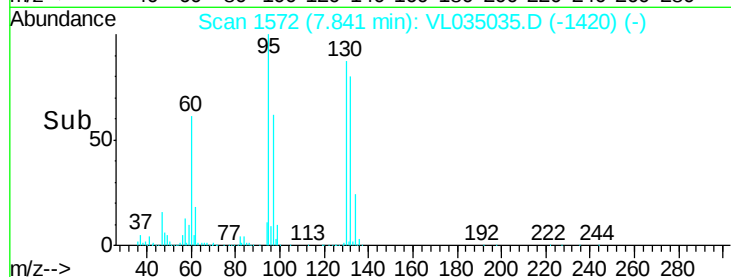


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.292 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

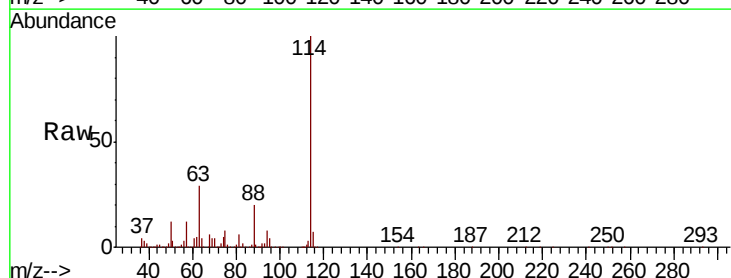
Tgt Ion: 63 Resp: 632475

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

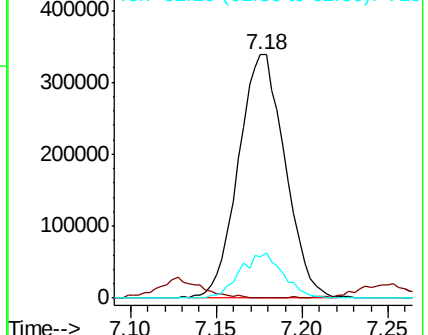
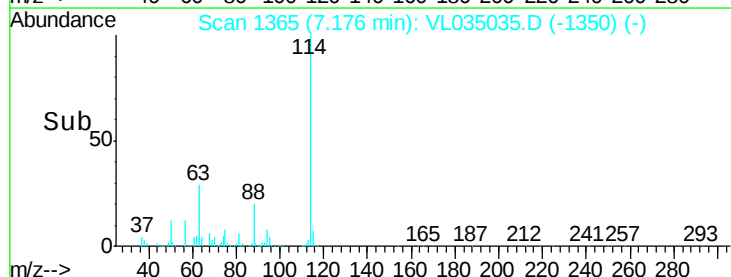
62 16.8 54.2 81.2#

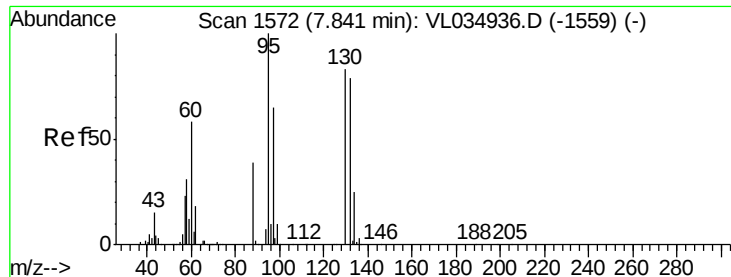


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

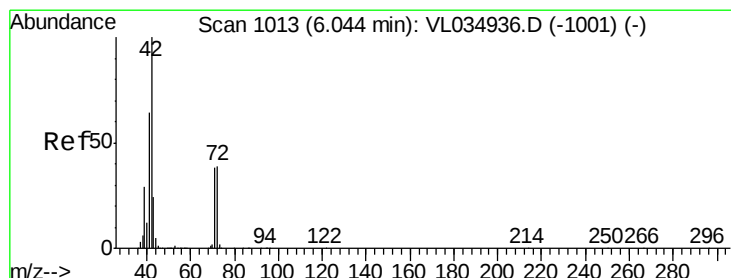
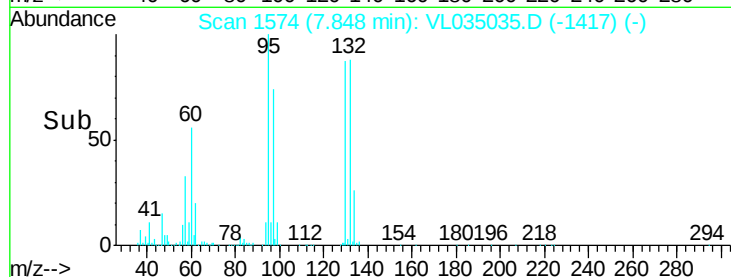
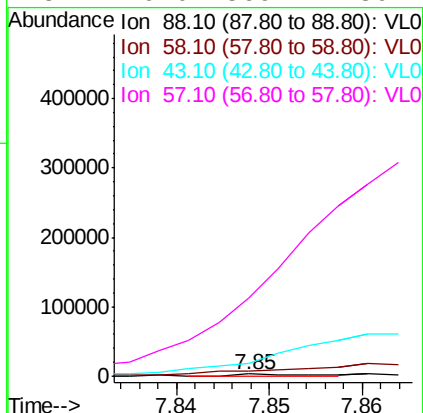
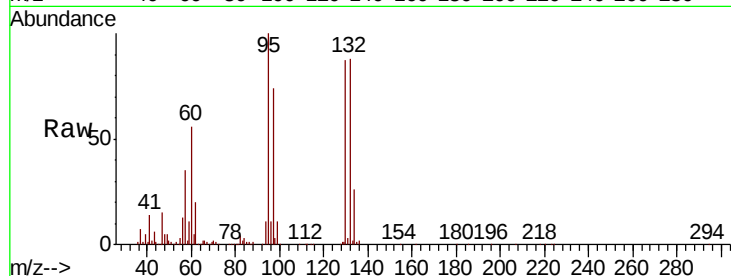




#40
1,4-Dioxane
Concen: 0.064 ppbv
RT: 7.85 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

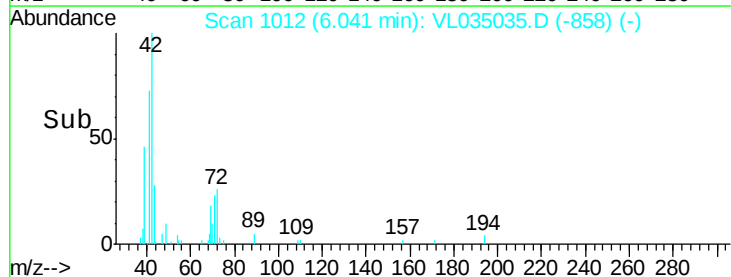
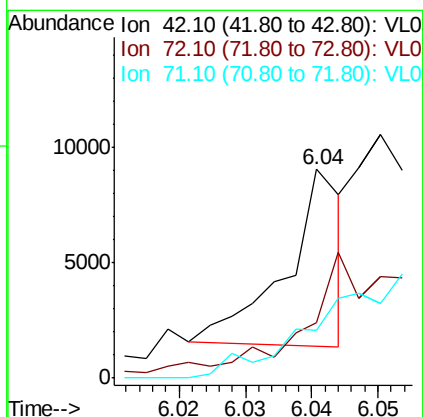
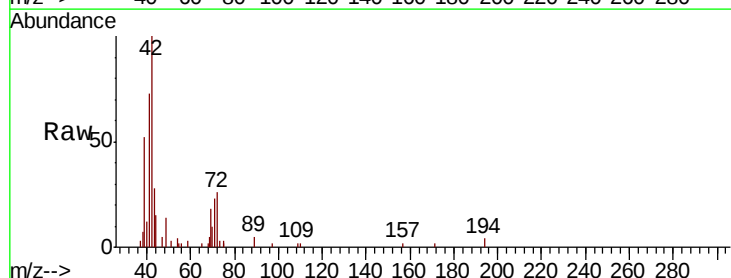
Instrument :
MSVOA_L
ClientSampleId :

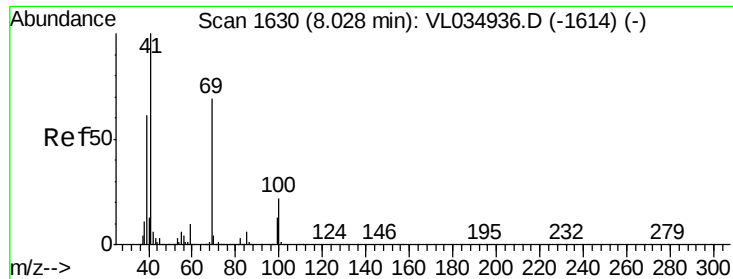
Tot Ion: 88 Resp: 1972
Ion Ratio Lower Upper
88 100
58 0.0 105.1 157.7#
43 0.0 202.6 303.8#
57 0.0 869.4 1304.0#



#41
Tetrahydrofuran
Concen: 0.060 ppbv
RT: 6.04 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 42 Resp: 4566
Ion Ratio Lower Upper
42 100
72 185.9 31.4 47.0#
71 0.0 29.8 44.8#

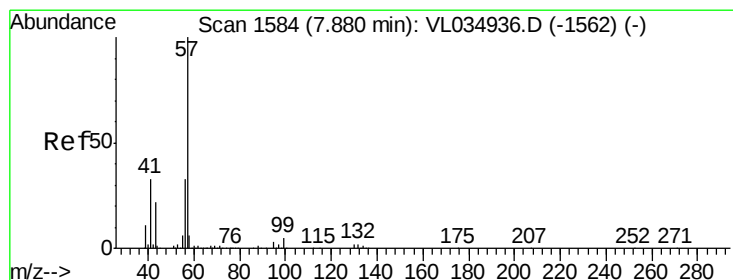
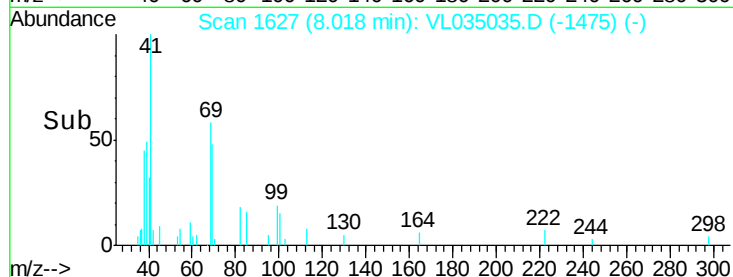
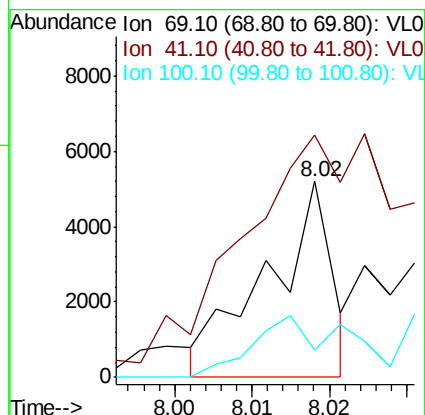
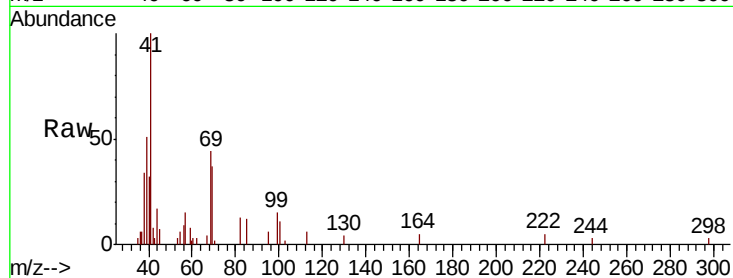




#43
Methvl Methacrilate
Concen: 0.038 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

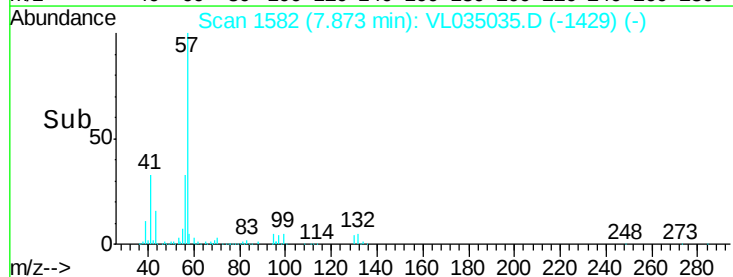
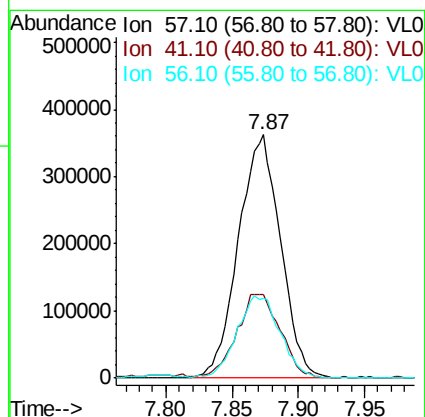
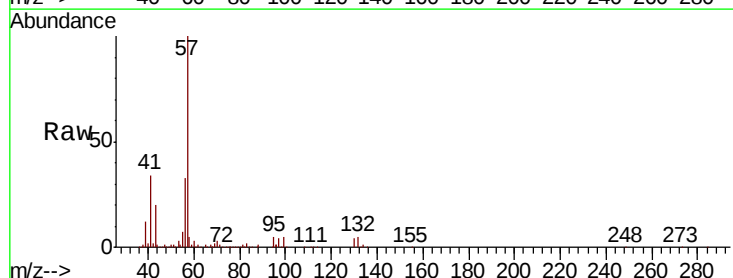
Instrument :
MSVOA_L
ClientSampleId :

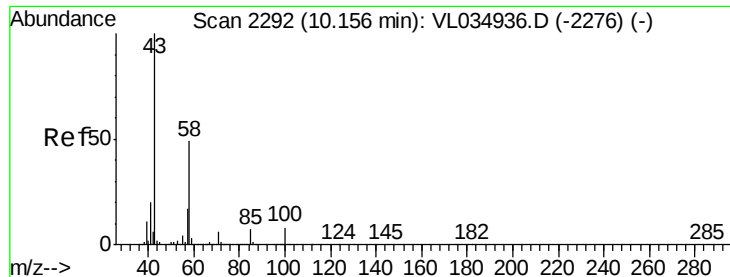
Tot Ion: 69 Resp: 3022
Ion Ratio Lower Upper
69 100
41 0.0 119.8 179.6#
100 0.0 25.0 37.6#



#44
2,2,4-Trimethylpentane
Concen: 2.357 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 57 Resp: 797271
Ion Ratio Lower Upper
57 100
41 37.0 26.4 39.6
56 34.9 25.5 38.3

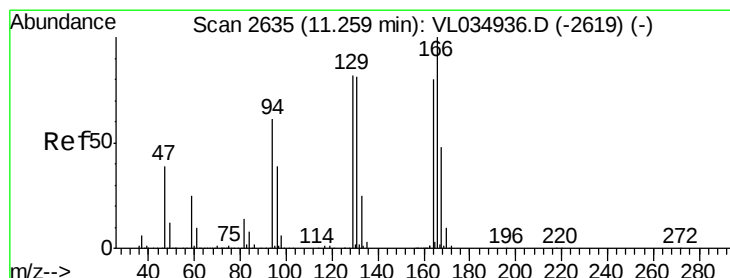
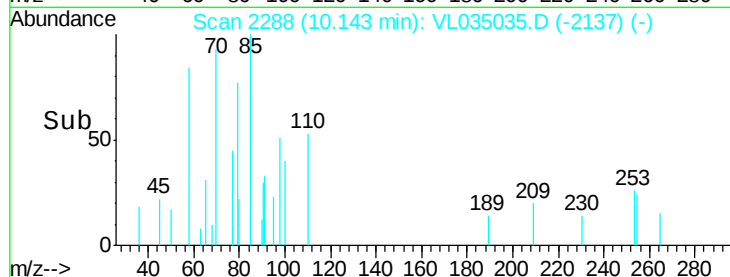
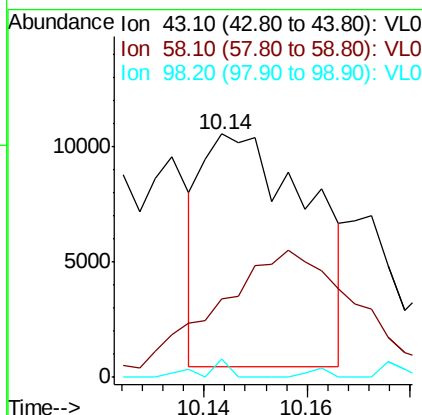
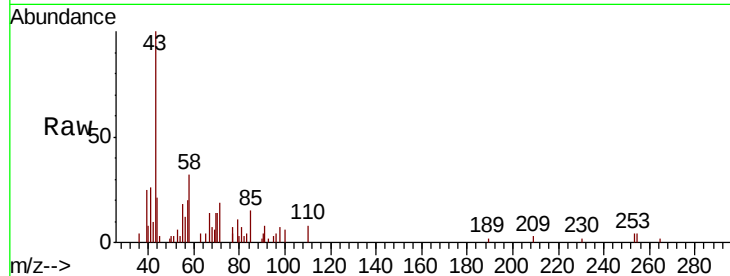




#51
2-Hexanone
Concen: 0.091 ppbv
RT: 10.14 min Scan# 2288
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

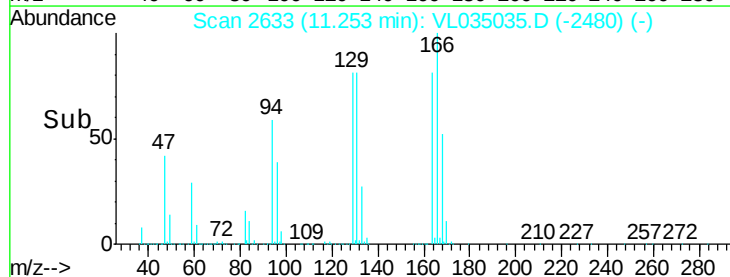
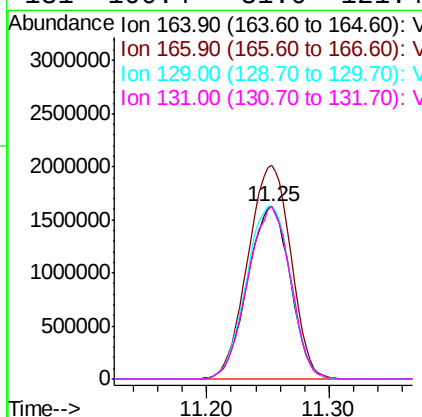
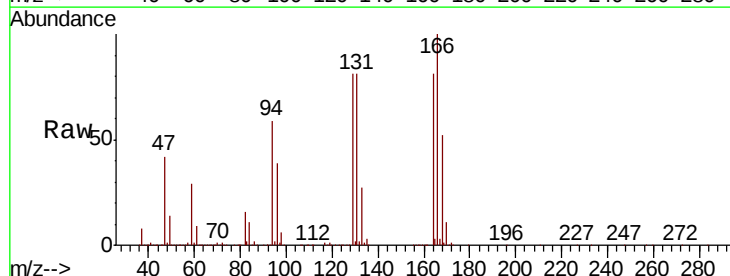
Instrument :
MSVOA_L
ClientSampled :

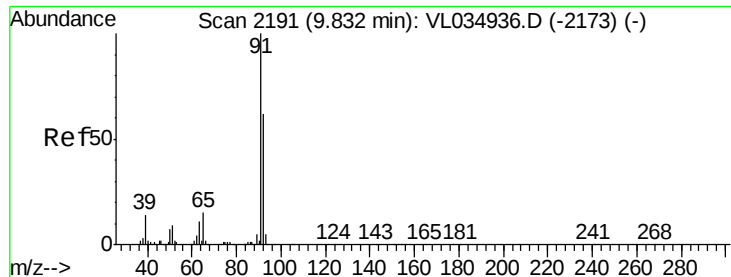
Tot Ion: 43 Resp: 14509
Ion Ratio Lower Upper
43 100
58 77.8 39.1 58.7#
98 3.4 0.3 0.5#



#52
Tetrachloroethene
Concen: 58.148 ppbv
RT: 11.25 min Scan# 2633
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 164 Resp: 3933969
Ion Ratio Lower Upper
164 100
166 123.9 100.7 151.1
129 100.1 83.0 124.4
131 100.4 81.0 121.4





#53

Toluene

Concen: 9.676 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

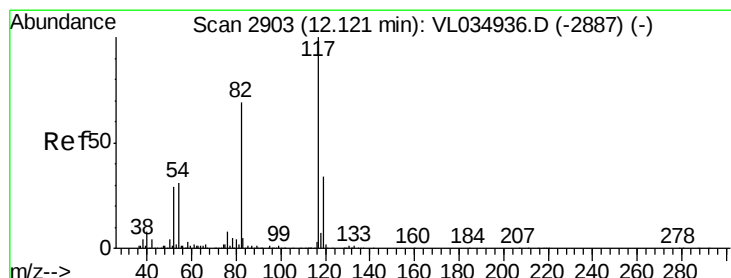
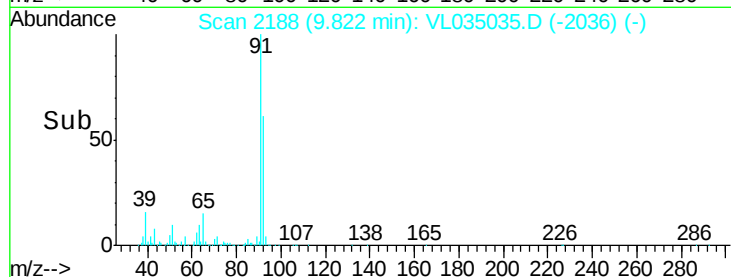
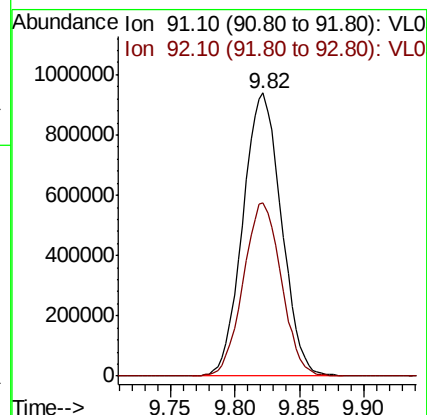
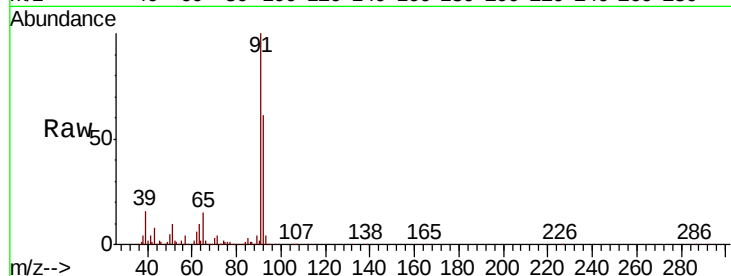
ClientSampleId :

Tot Ion: 91 Resp: 1951520

Ion Ratio Lower Upper

91 100

92 60.6 48.6 73.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

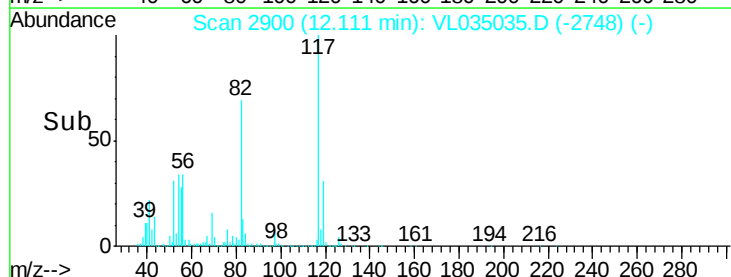
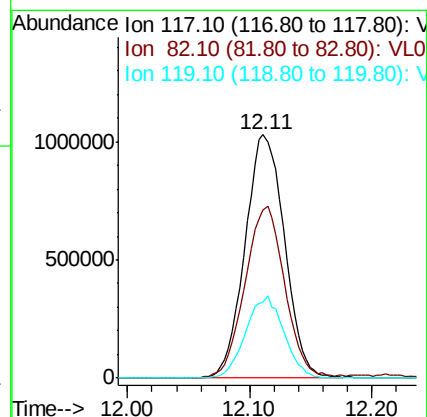
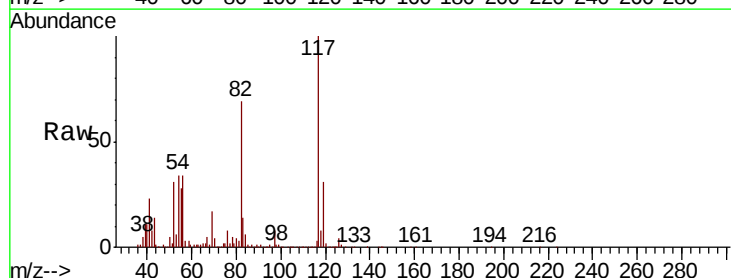
Tgt Ion: 117 Resp: 2304825

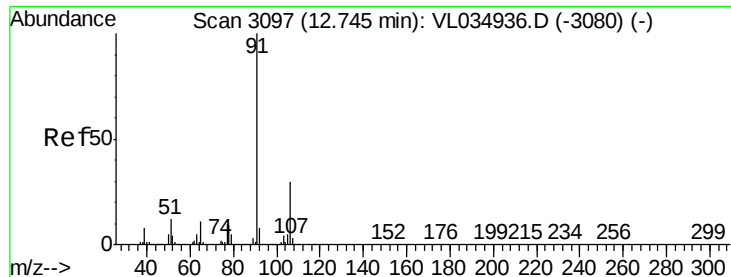
Ion Ratio Lower Upper

117 100

82 71.1 53.1 79.7

119 32.9 26.7 40.1





#58

Ethyl Benzene

Concen: 1.140 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. -0.00 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

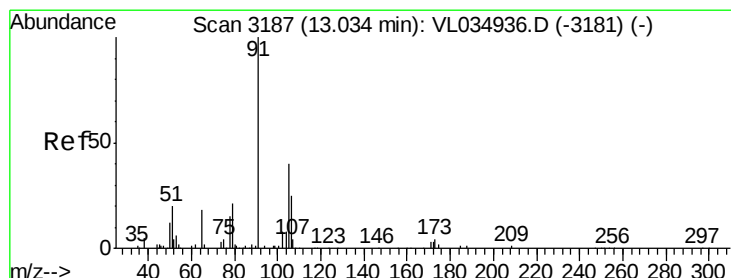
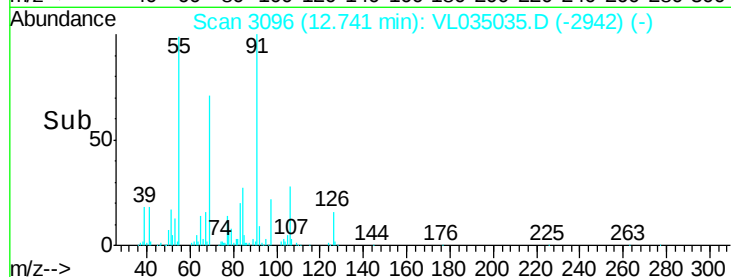
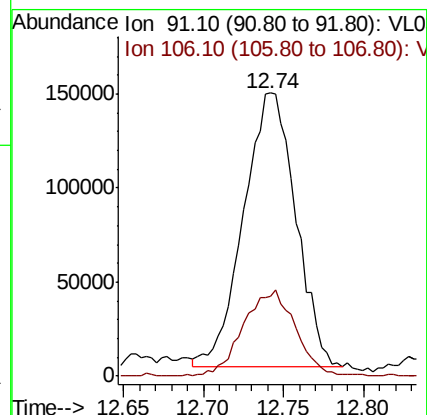
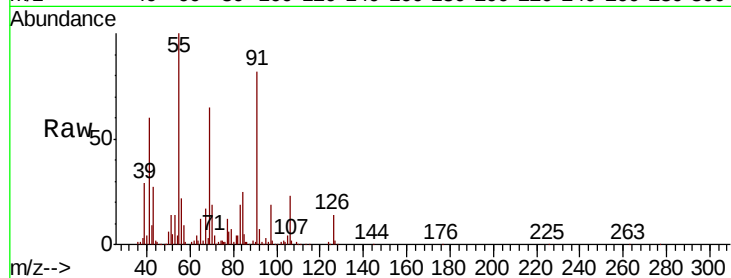
ClientSampleId :

Tot Ion: 91 Resp: 325037

Ion Ratio Lower Upper

91 100

106 28.7 24.2 36.4



#59

m/p-Xylene

Concen: 2.100 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. -0.04 min

Lab File: VL035035.D

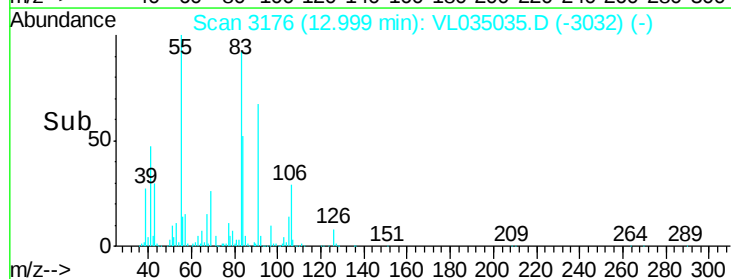
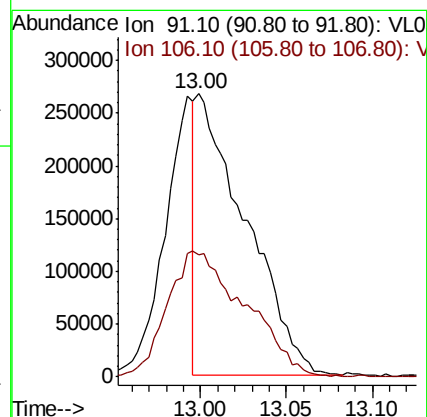
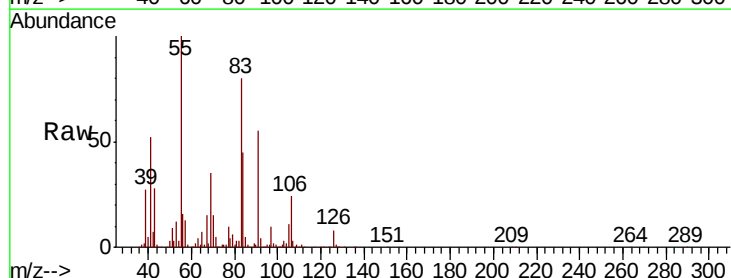
Acq: 15 May 2020 1:26

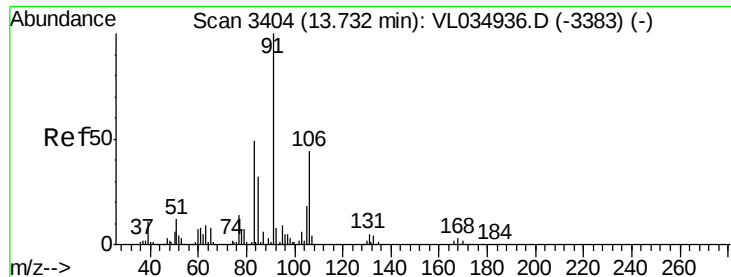
Tgt Ion: 91 Resp: 526638

Ion Ratio Lower Upper

91 100

106 71.7 66.0 99.0

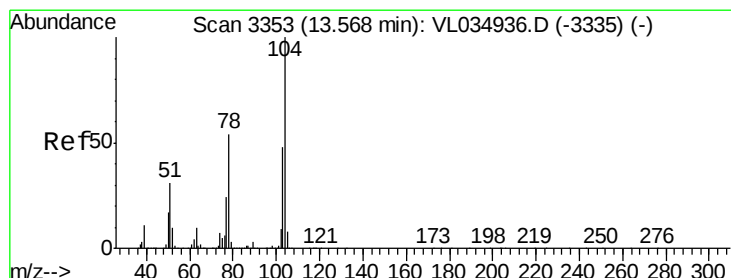
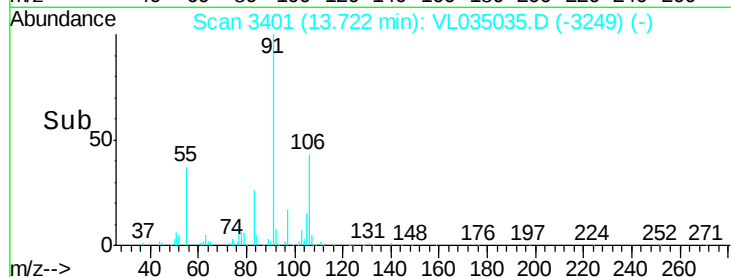
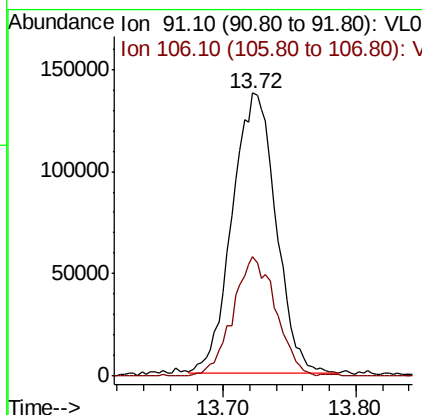
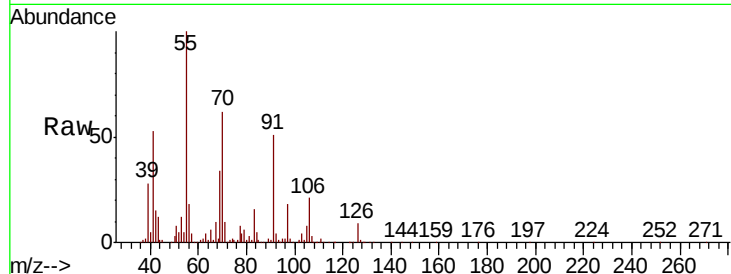




#60
o-Xylene
Concen: 1.273 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

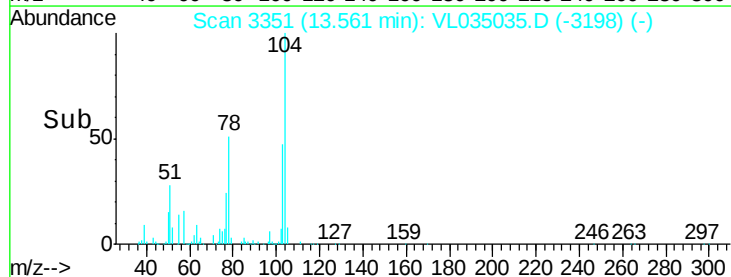
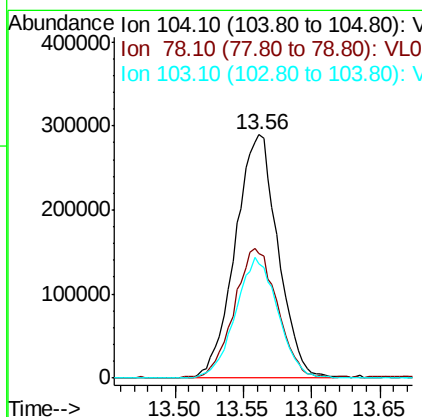
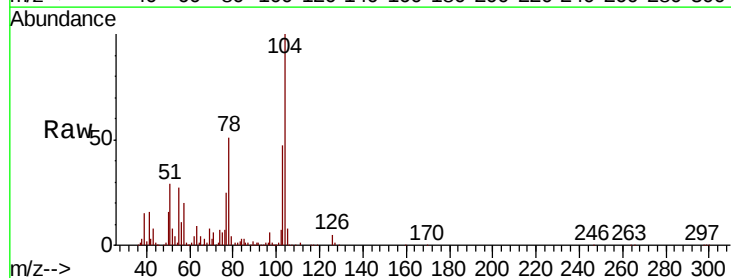
Instrument :
MSVOA_L
ClientSampleId :

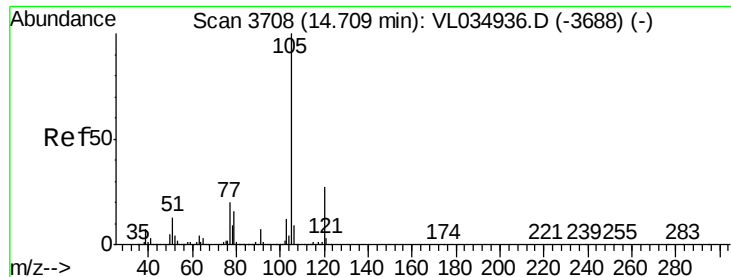
Tot Ion: 91 Resp: 315039
Ion Ratio Lower Upper
91 100
106 41.8 21.9 65.5



#61
Styrene
Concen: 3.997 ppbv
RT: 13.56 min Scan# 3351
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 104 Resp: 625946
Ion Ratio Lower Upper
104 100
78 54.8 43.7 65.5
103 49.1 38.8 58.2





#62

Isopropylbenzene

Concen: 15.585 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

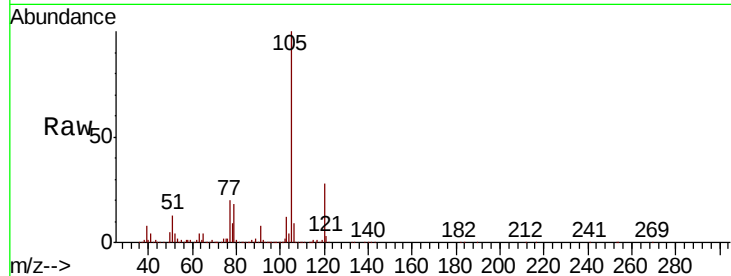
ClientSampled :

Tot Ion:105 Resp: 5757649

Ion Ratio Lower Upper

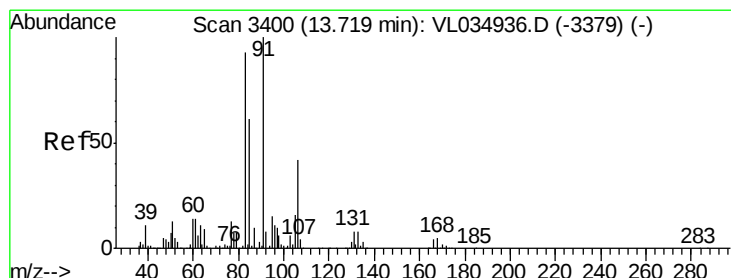
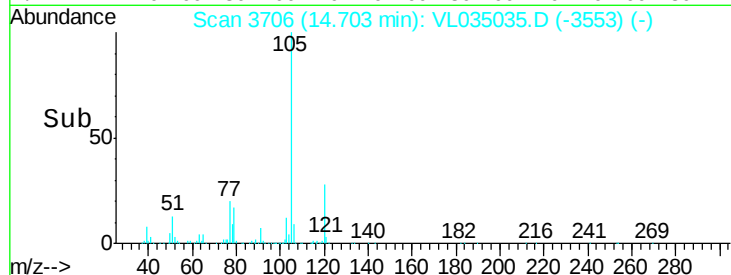
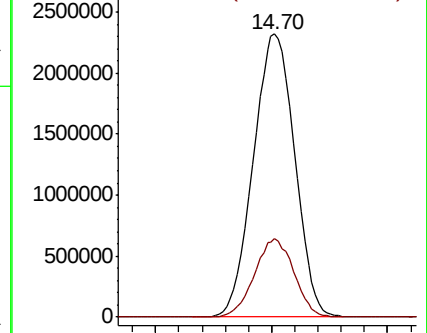
105 100

120 26.4 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.416 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. -0.00 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

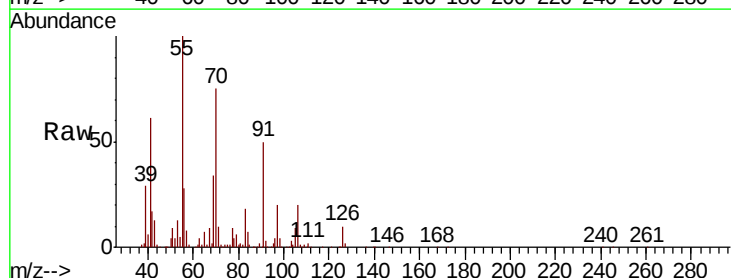
Tgt Ion: 83 Resp: 81083

Ion Ratio Lower Upper

83 100

131 0.6 4.7 14.0#

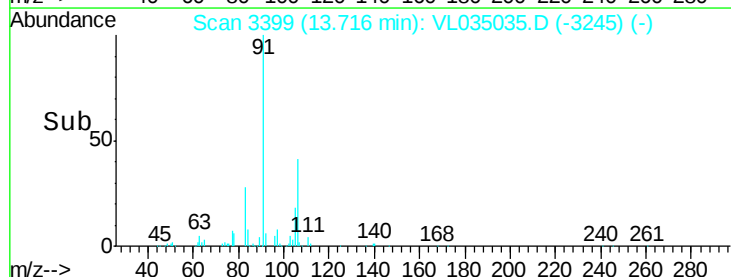
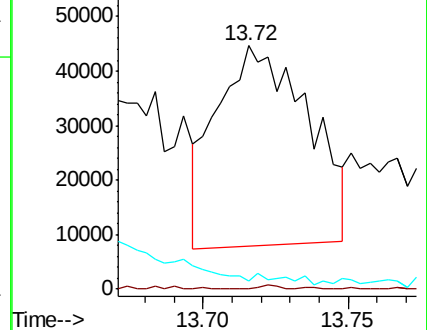
85 0.0 32.5 97.4#

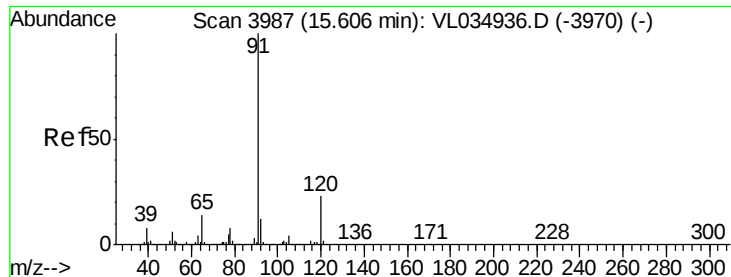


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.039 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

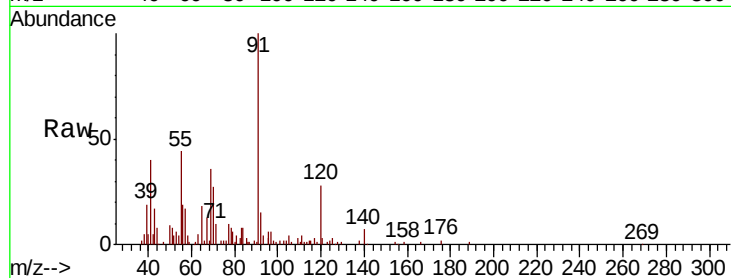
ClientSampleId :

Tot Ion:120 Resp: 3663

Ion Ratio Lower Upper

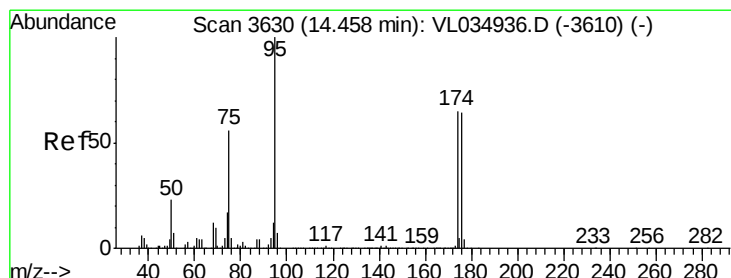
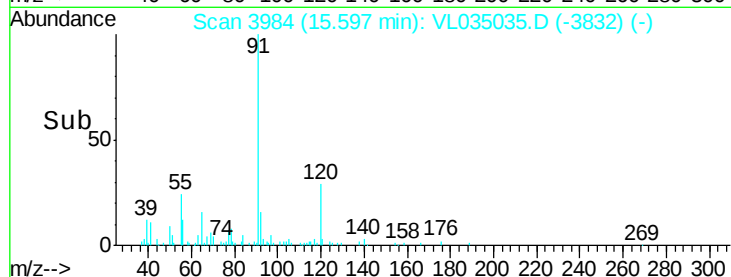
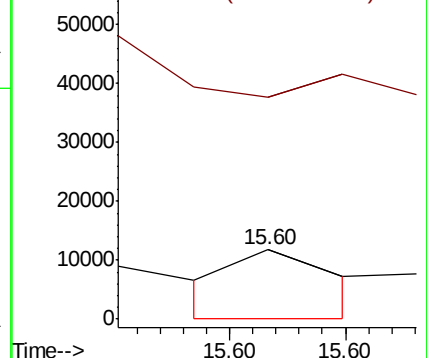
120 100

91 0.0 373.5 560.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 11.007 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

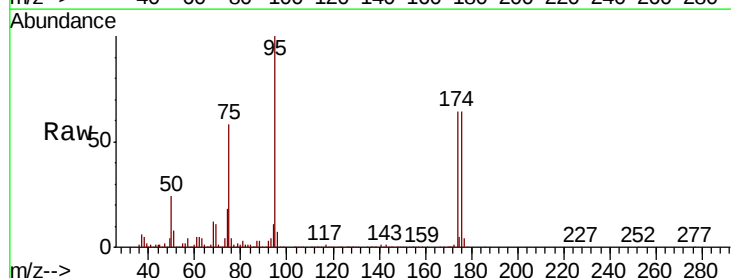
Tgt Ion: 95 Resp: 2053573

Ion Ratio Lower Upper

95 100

174 65.3 51.5 77.3

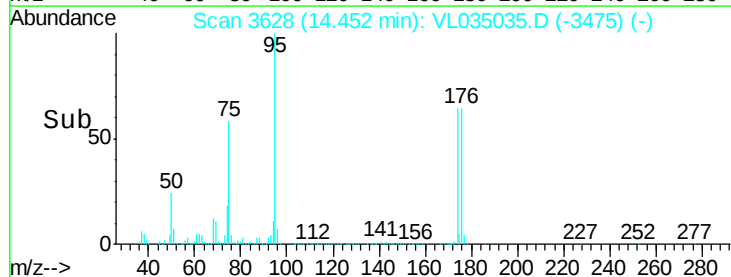
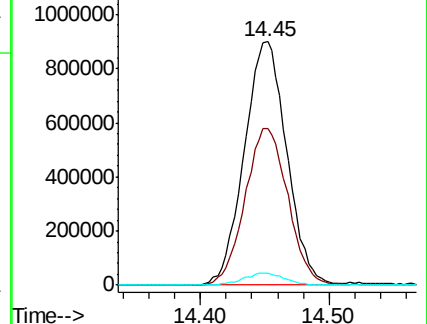
175 4.8 3.8 5.8

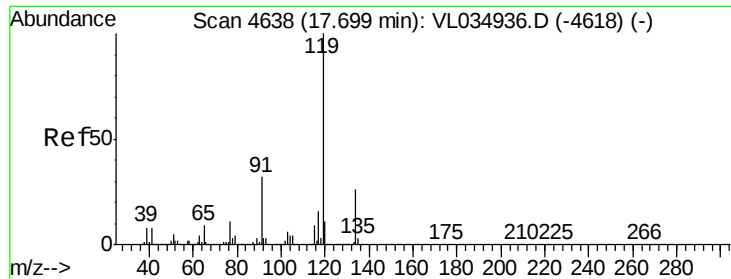


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

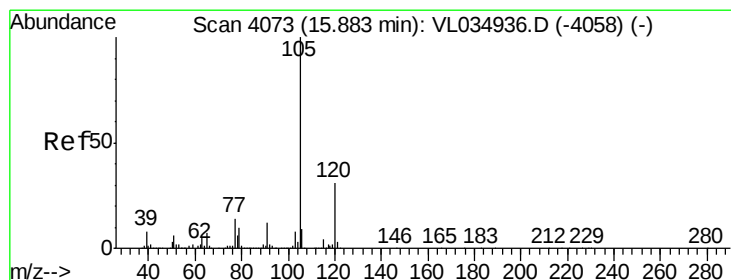
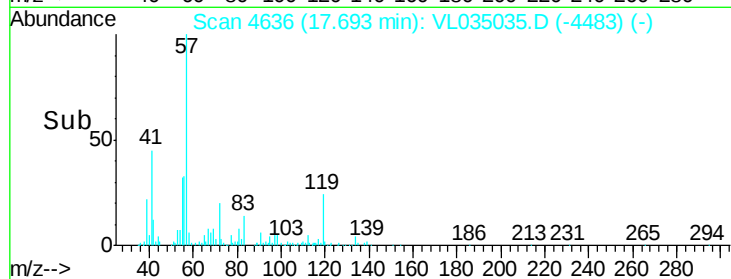
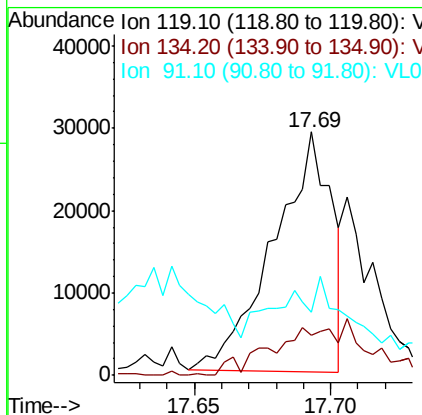
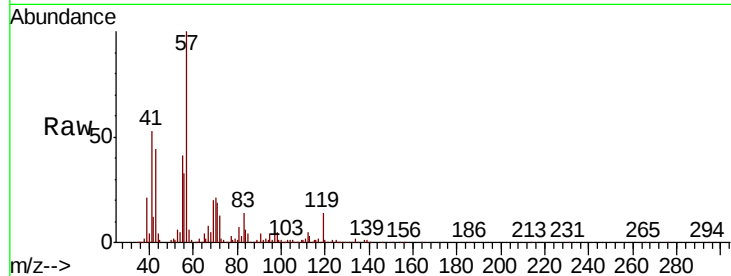




#69
 p-Isopropyltoluene
 Concen: 0.116 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.01 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

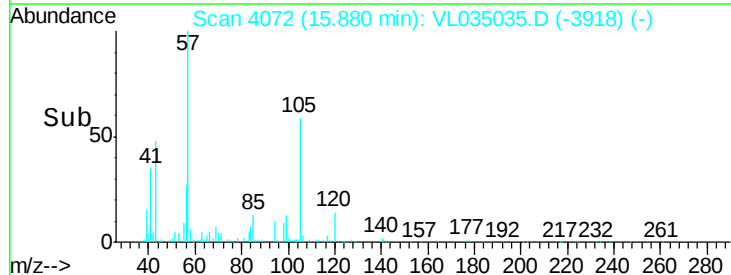
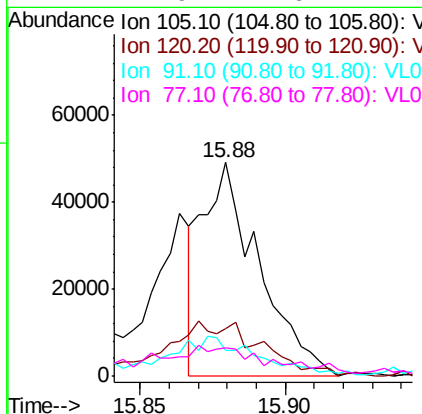
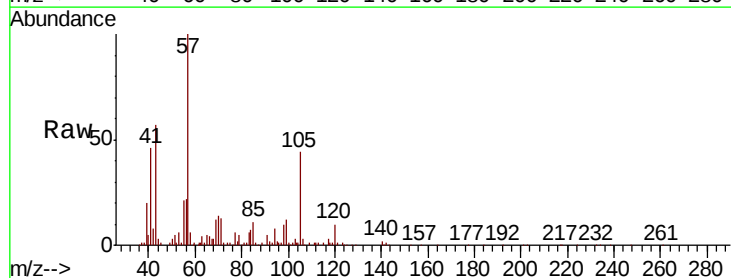
Instrument :
 MSVOA_L
 ClientSampleId :

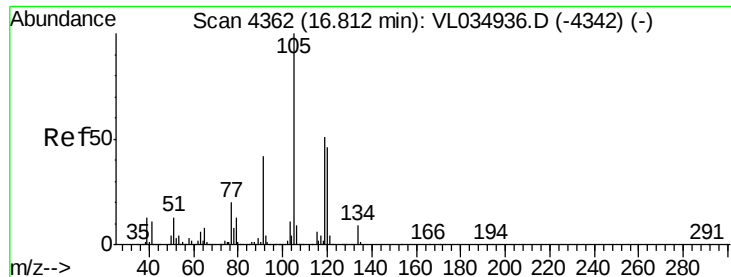
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.3	30.5#
91	51.3	24.6	36.8#



#72
 4-Ethyltoluene
 Concen: 0.240 ppbv
 RT: 15.88 min Scan# 4072
 Delta R.T. -0.00 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.4	23.8	35.8#
91	25.3	10.6	15.8#
77	21.9	11.6	17.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.479 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.01 min

Lab File: VL035035.D

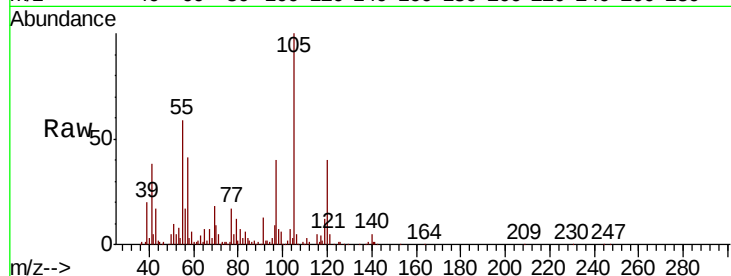
Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	140490
Ion	Ratio	Lower	Upper
105	100		
120	39.3	36.8	55.2
91	8.4	35.4	53.0#
77	10.6	16.2	24.2#



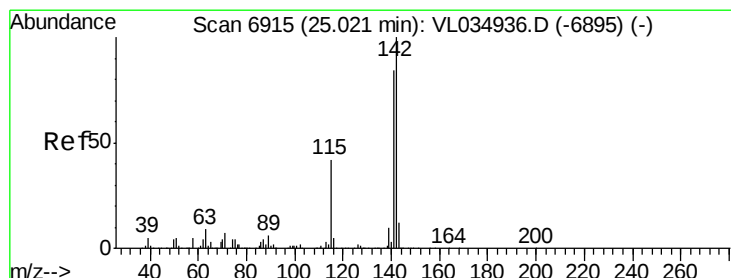
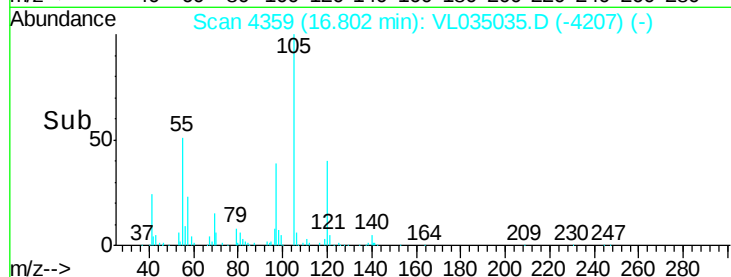
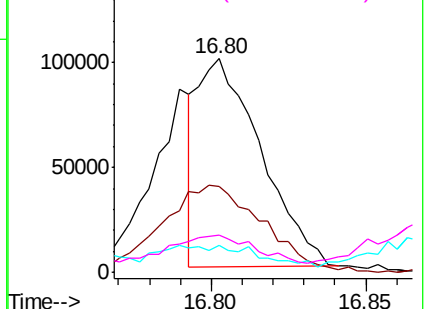
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#80

Naphthalene, 2-methyl-

Concen: 0.117 ppbv

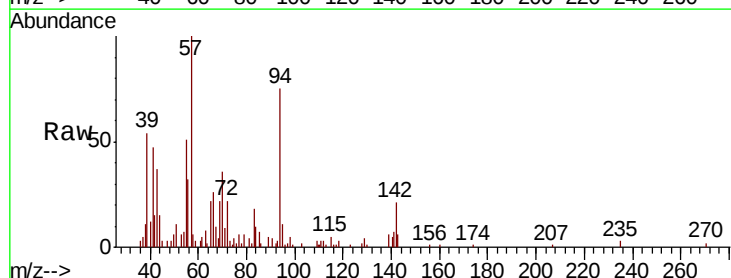
RT: 25.01 min Scan# 6912

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Tgt Ion:	142	Resp:	6543
Ion	Ratio	Lower	Upper
142	100		
141	89.9	68.6	102.8
115	59.3	33.9	50.9#



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

