

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036540.D
 Acq On : 29 Mar 2021 15:23
 Operator : SY/AP
 Sample : M1760-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 06:40:30 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	5.66	49	1466806	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3324214	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2893326	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2281125	9.89	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

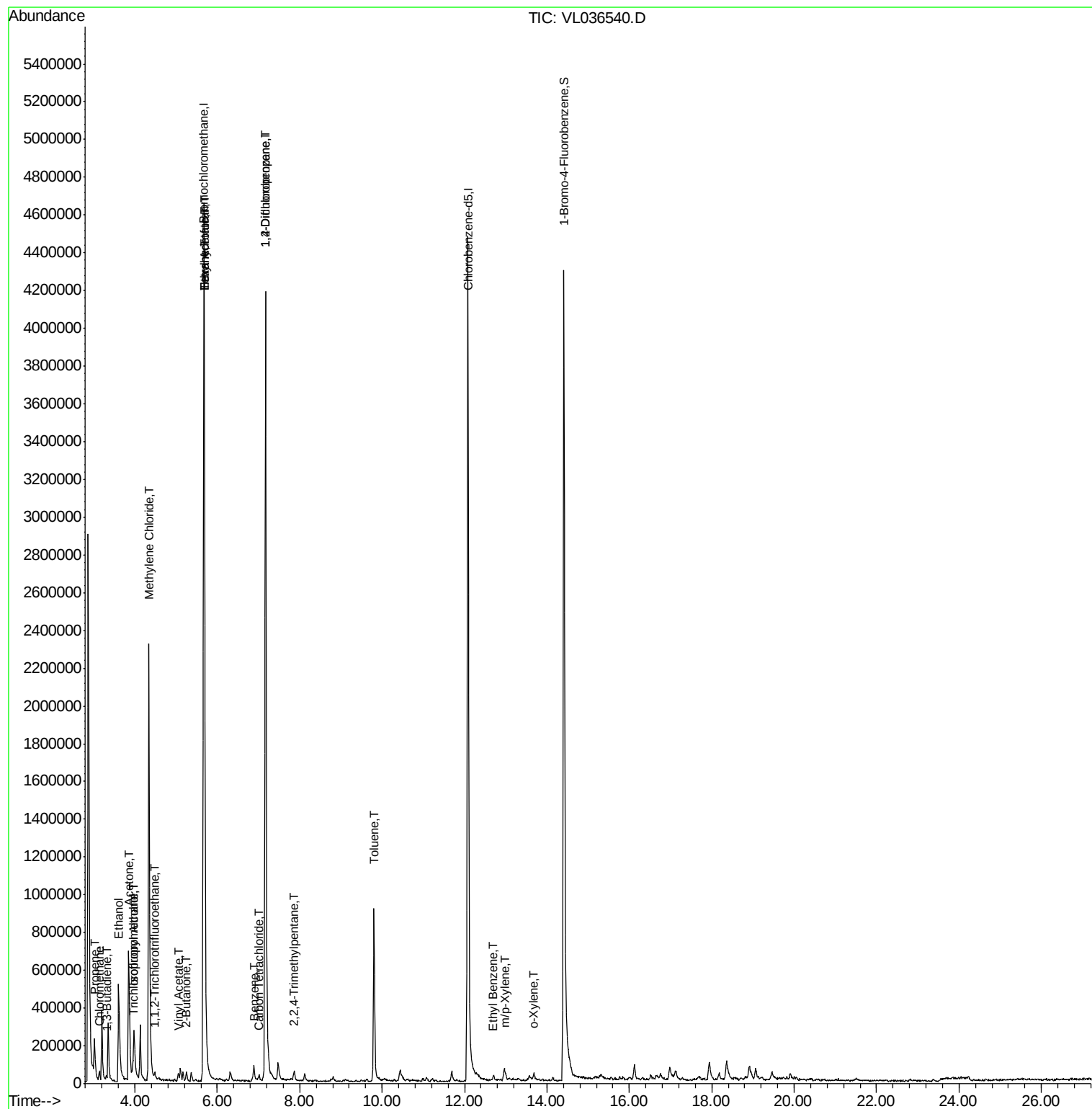
Target Compounds					Ovalue
4) Chloromethane	3.14	50	45602	0.471 ppbv	91
9) Propene	3.02	41	56288	0.644 ppbv	83
11) Trichlorofluoromethane	3.94	101	49890	0.205 ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4753	0.030 ppbv #	1
13) Ethanol	3.61	45	702432	67.516 ppbv	95
15) Acetone	3.85	43	926411	6.417 ppbv	97
16) 1,3-Butadiene	3.31	39	2448	0.024 ppbv #	1
19) Isopropyl Alcohol	3.97	45	324881	4.091 ppbv #	95
20) Methylene Chloride	4.34	84	893631	13.221 ppbv	98
23) Vinyl Acetate	5.07	43	4962	0.020 ppbv #	83
25) Ethyl Acetate	5.68	43	1174337	3.421 ppbv #	78
26) Hexane	5.68	57	1580526	9.923 ppbv #	47
34) 2-Butanone	5.25	43	53797	0.332 ppbv #	89
35) Carbon Tetrachloride	7.01	117	11290	0.044 ppbv #	53
36) Benzene	6.89	78	36741	0.120 ppbv #	88
39) 1,2-Dichloropropane	7.17	63	924180	7.431 ppbv #	23
41) Tetrahydrofuran	5.68	42	655795	8.765 ppbv #	53
44) 2,2,4-Trimethylpentane	7.86	57	18902	0.035 ppbv #	1
53) Toluene	9.80	91	710484	2.176 ppbv	99
58) Ethyl Benzene	12.70	91	9875	0.023 ppbv	91
59) m/p-Xylene	13.00	91	7984	0.022 ppbv #	32
60) o-Xylene	13.68	91	9471	0.027 ppbv #	1

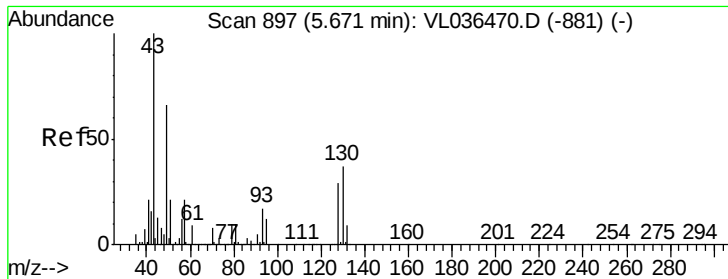
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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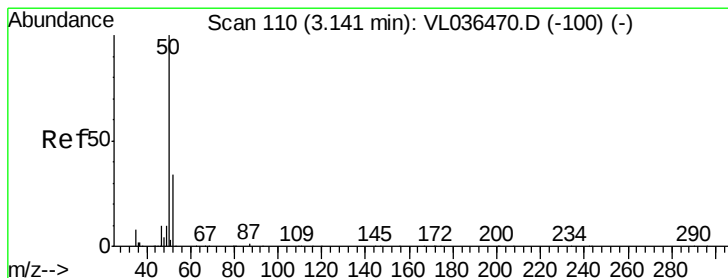
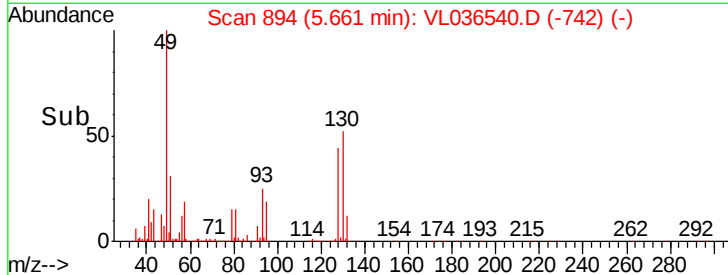
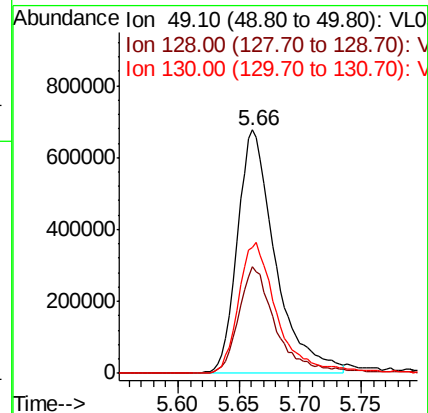
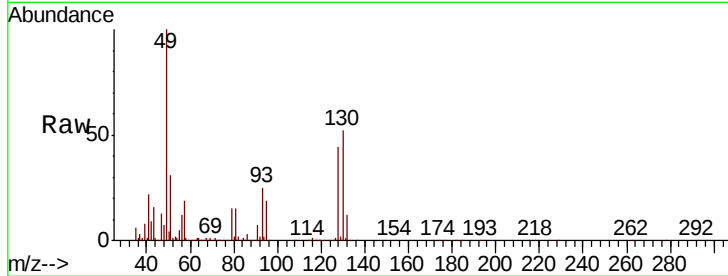


#1

Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: VL036540.D
 Acq: 29 Mar 2021 15:23

Instrument :
 MSVOA_L
 ClientSampleId :

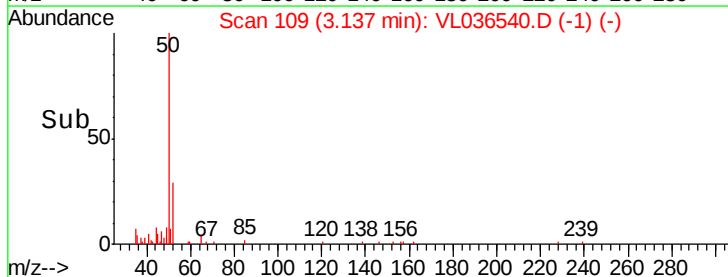
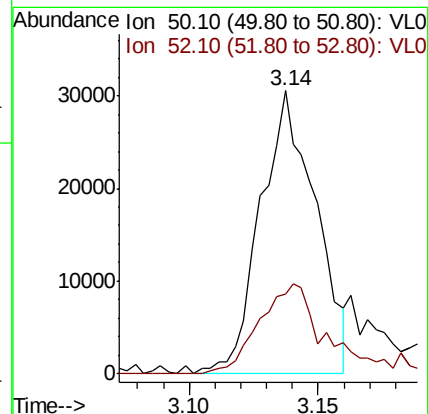
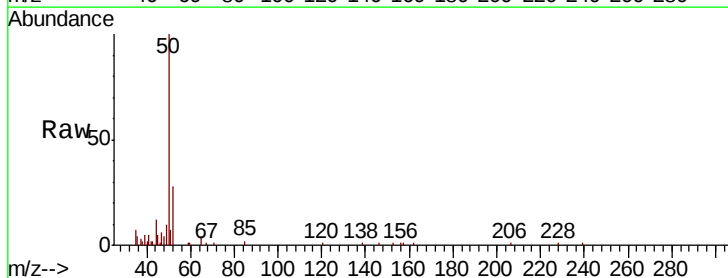
Tot Ion: 49 Resp: 1466806
 Ion Ratio Lower Upper
 49 100
 128 43.5 23.5 70.6
 130 55.3 29.1 87.4

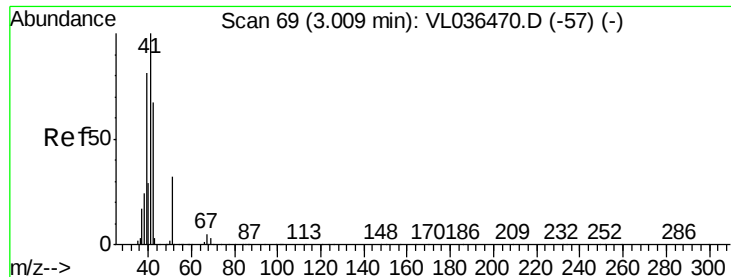


#4

Chloromethane
 Concen: 0.471 ppbv
 RT: 3.14 min Scan# 109
 Delta R.T. -0.00 min
 Lab File: VL036540.D
 Acq: 29 Mar 2021 15:23

Tgt Ion: 50 Resp: 45602
 Ion Ratio Lower Upper
 50 100
 52 28.4 27.0 40.6





#9

Propene

Concen: 0.644 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

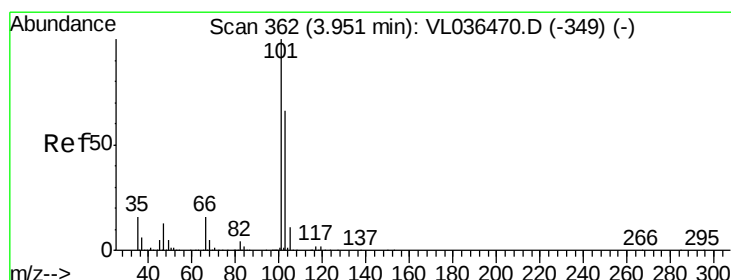
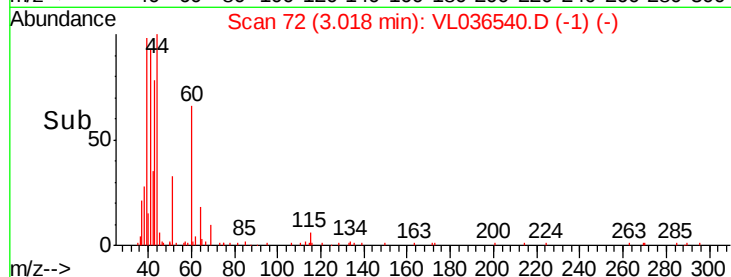
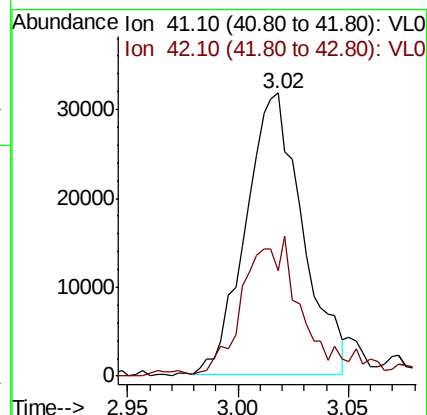
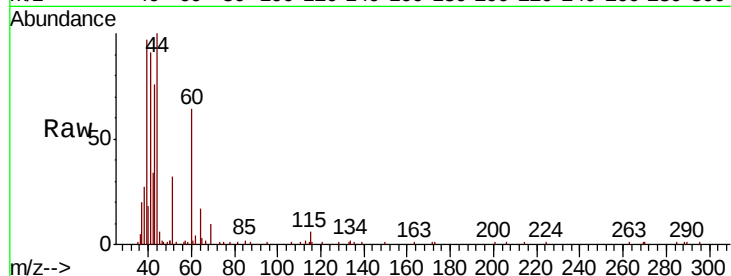
ClientSampleId :

Tot Ion: 41 Resp: 56288

Ion Ratio Lower Upper

41 100

42 57.3 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.205 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL036540.D

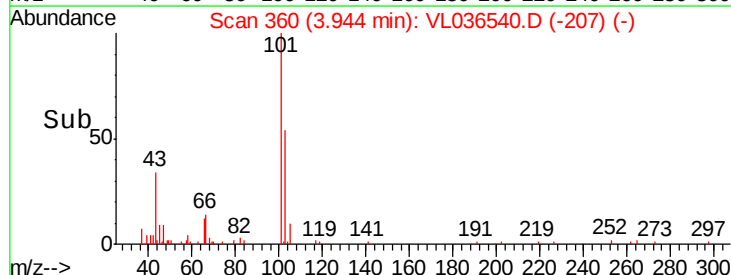
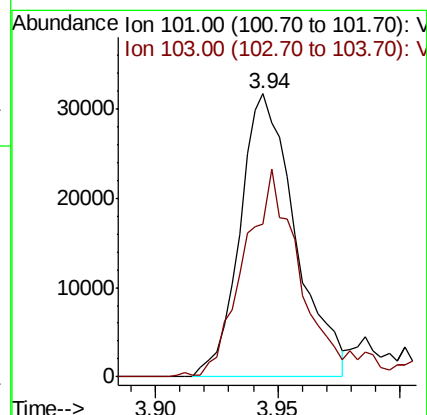
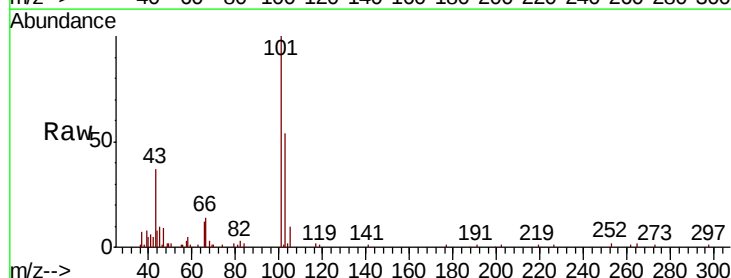
Acq: 29 Mar 2021 15:23

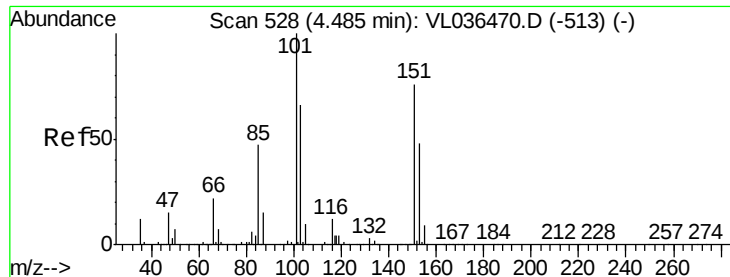
Tgt Ion: 101 Resp: 49890

Ion Ratio Lower Upper

101 100

103 53.1 52.5 78.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.030 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.01 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

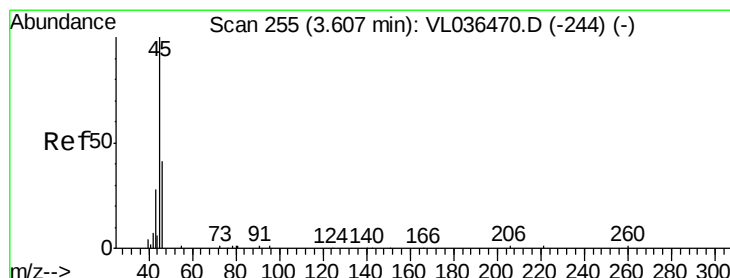
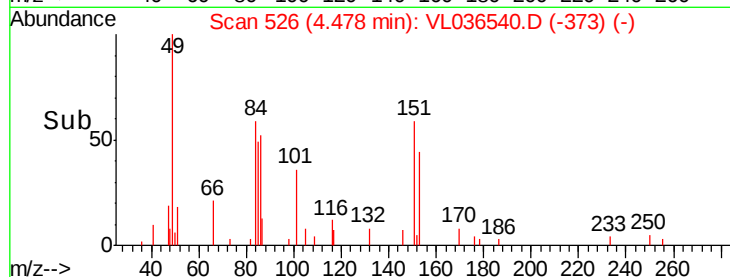
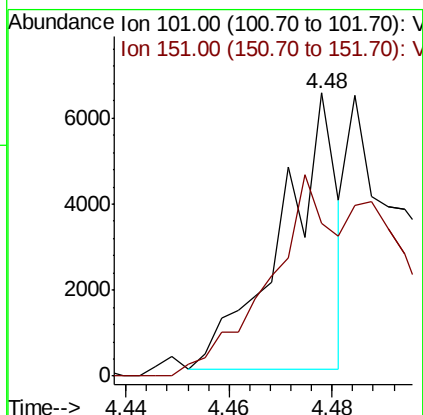
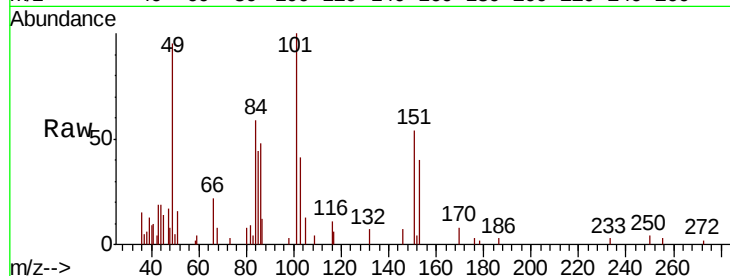
ClientSampleId :

Tot Ion:101 Resp: 4753

Ion Ratio Lower Upper

101 100

151 194.6 60.9 91.3#



#13

Ethanol

Concen: 67.516 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL036540.D

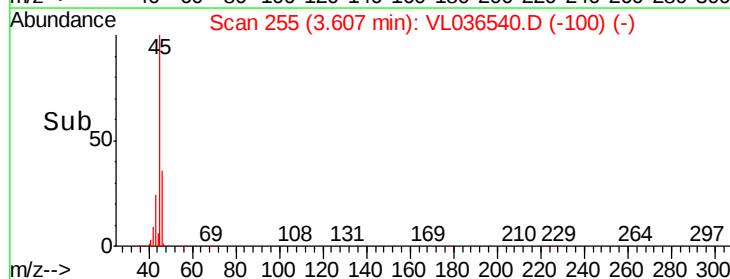
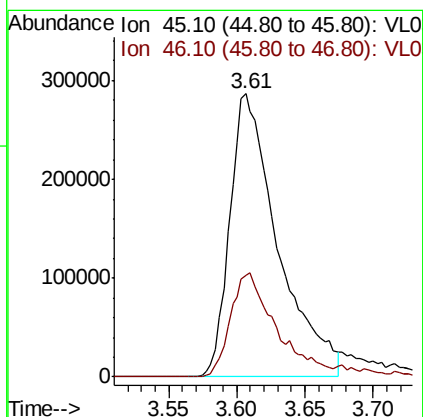
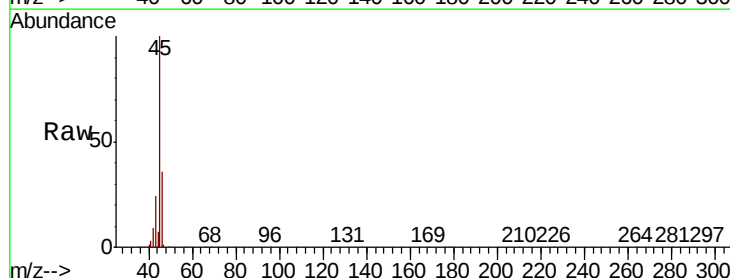
Acq: 29 Mar 2021 15:23

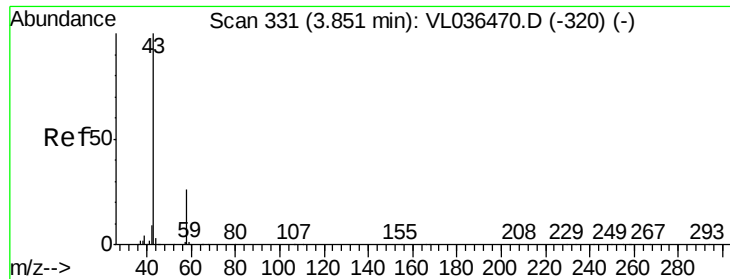
Tgt Ion: 45 Resp: 702432

Ion Ratio Lower Upper

45 100

46 38.1 16.6 66.2

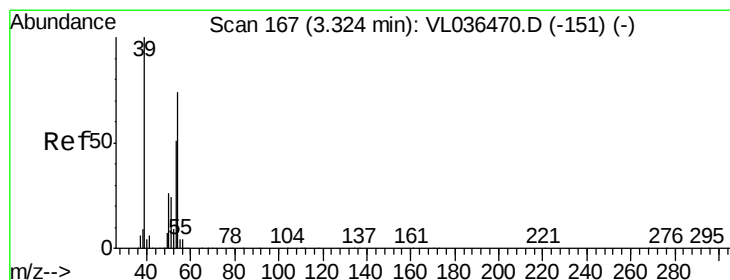
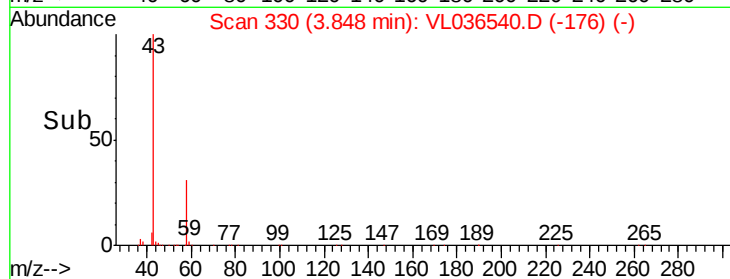
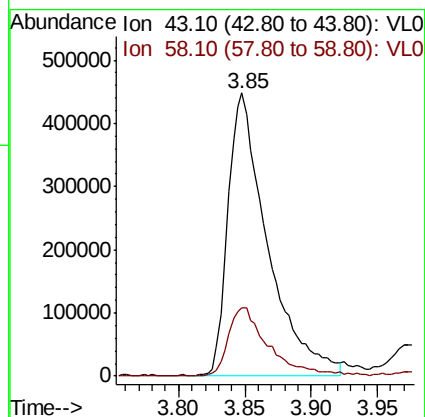
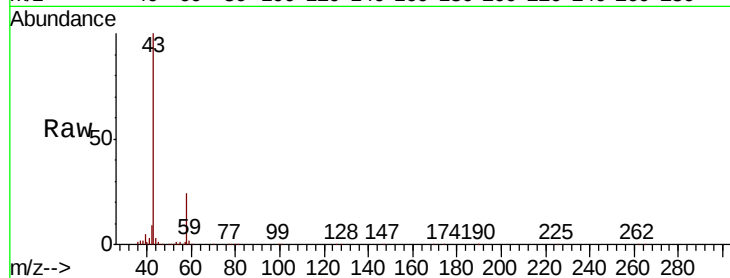




#15
Acetone
Concen: 6.417 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

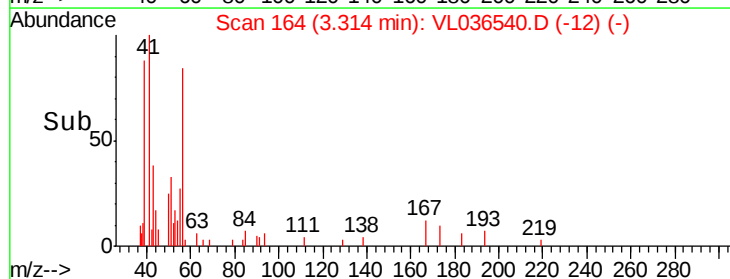
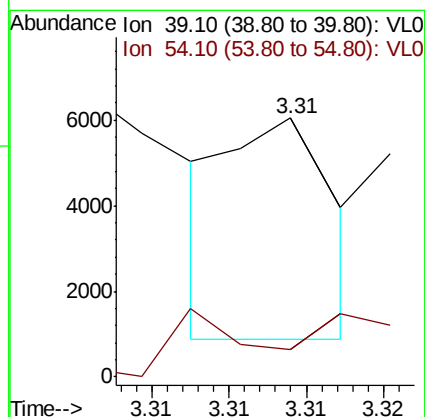
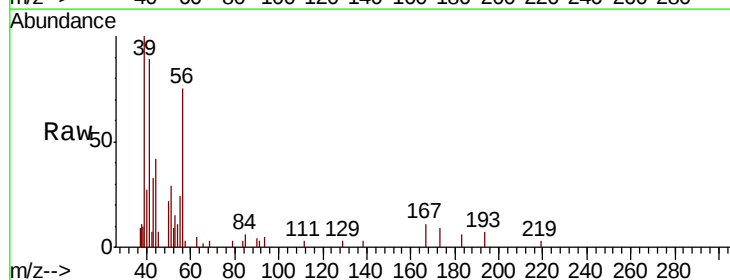
Instrument :
MSVOA_L
ClientSampleId :

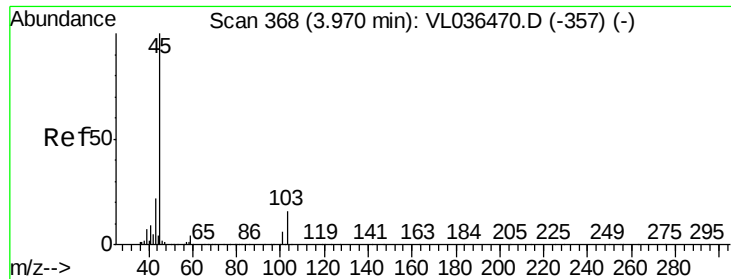
Tot Ion: 43 Resp: 926411
Ion Ratio Lower Upper
43 100
58 25.0 21.2 31.8



#16
1,3-Butadiene
Concen: 0.024 ppbv
RT: 3.31 min Scan# 164
Delta R.T. -0.01 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

Tgt Ion: 39 Resp: 2448
Ion Ratio Lower Upper
39 100
54 204.8 58.8 88.2#





#19

Isopropyl Alcohol

Concen: 4.091 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

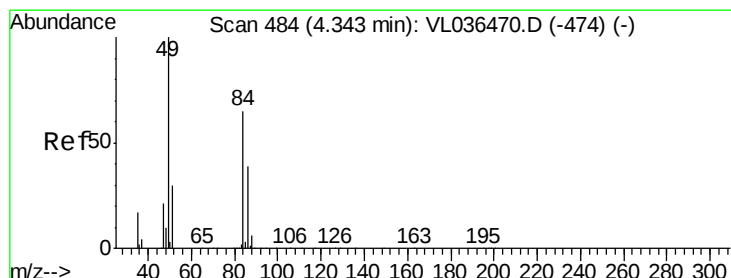
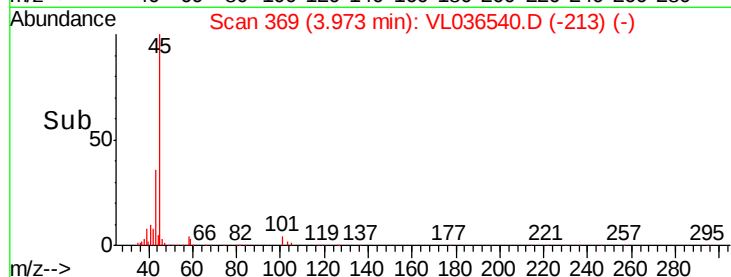
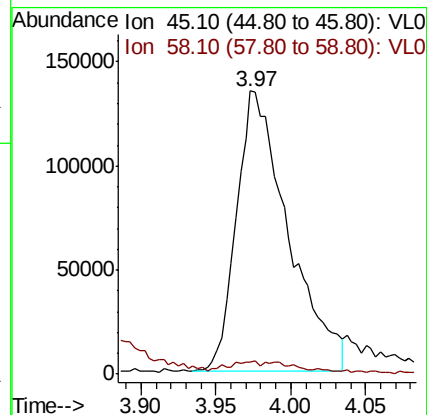
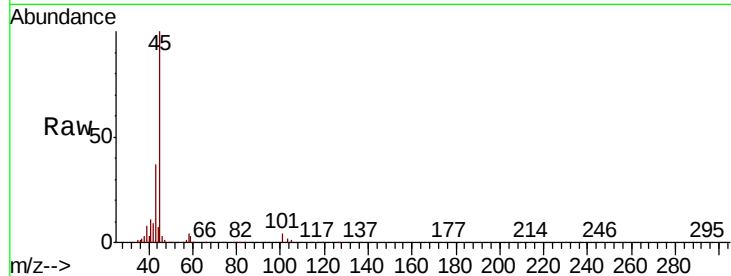
ClientSampleId :

Tot Ion: 45 Resp: 324881

Ion Ratio Lower Upper

45 100

58 5.3 2.9 4.3#



#20

Methylene Chloride

Concen: 13.221 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Tgt Ion: 84 Resp: 893631

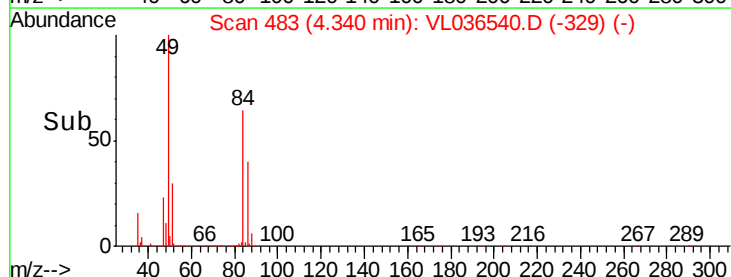
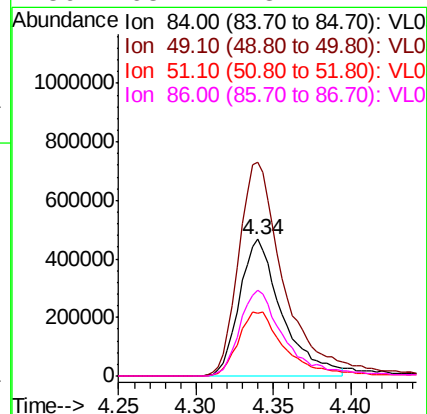
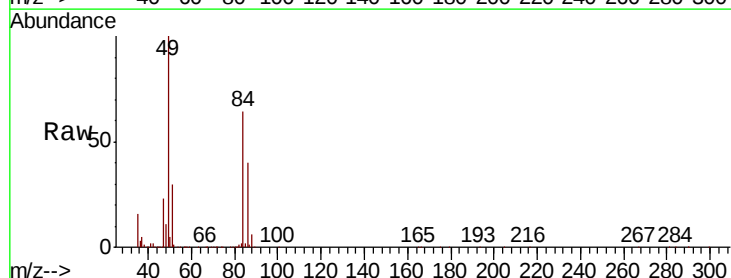
Ion Ratio Lower Upper

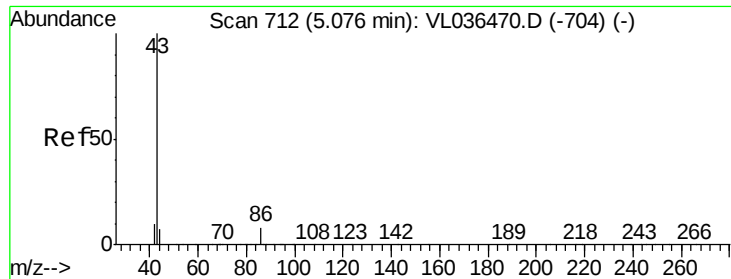
84 100

49 156.2 122.9 184.3

51 46.0 36.9 55.3

86 63.2 48.2 72.4





#23

Vinyl Acetate

Concen: 0.020 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 4962

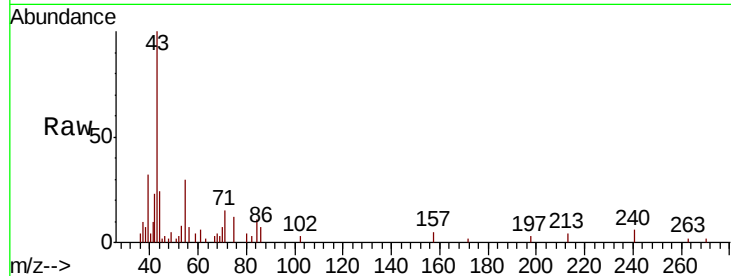
Ion Ratio Lower Upper

43 100

86 9.0 5.4 8.0#

42 0.0 8.5 12.7#

44 3.1 4.6 7.0#

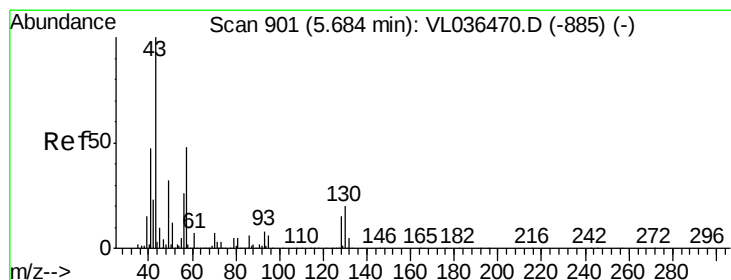
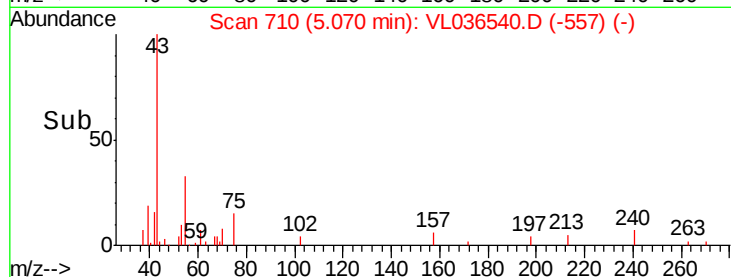
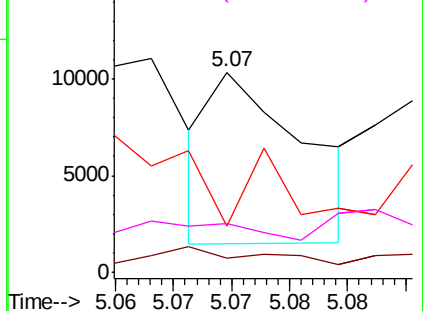


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 3.421 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Tgt Ion: 43 Resp: 1174337

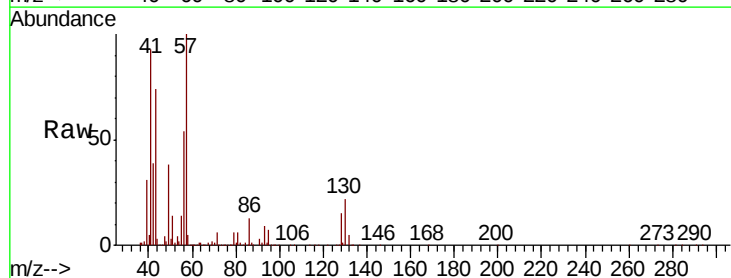
Ion Ratio Lower Upper

43 100

45 0.7 7.9 11.9#

61 0.6 7.4 11.2#

70 1.8 5.1 7.7#

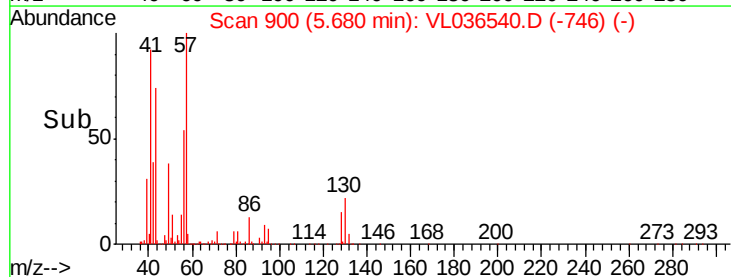
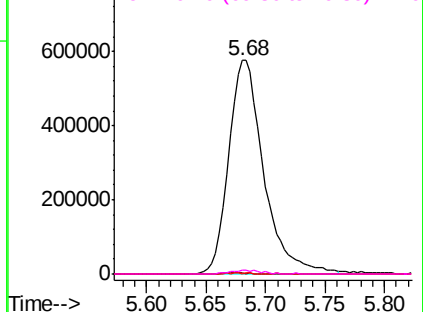


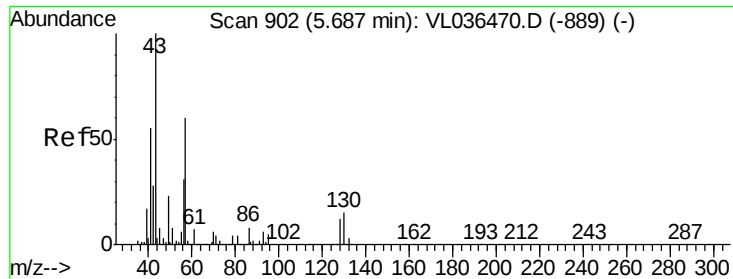
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

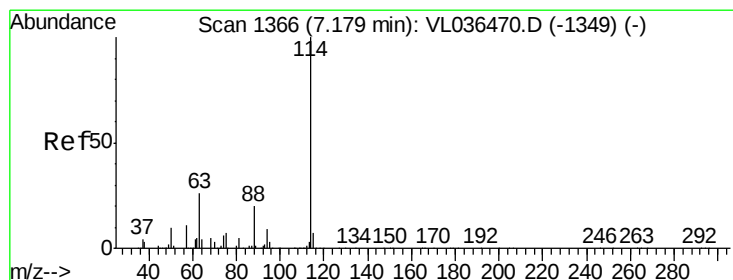
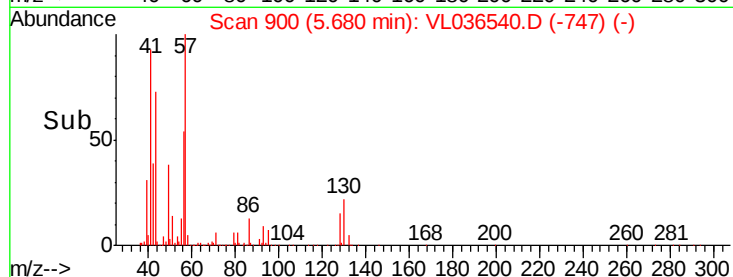
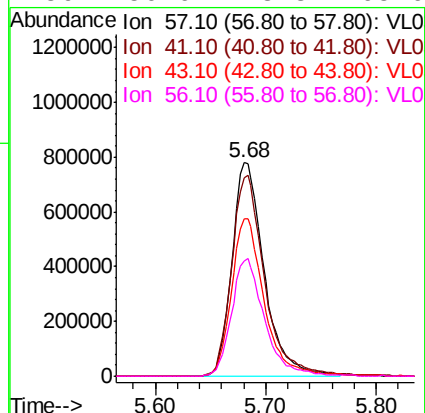
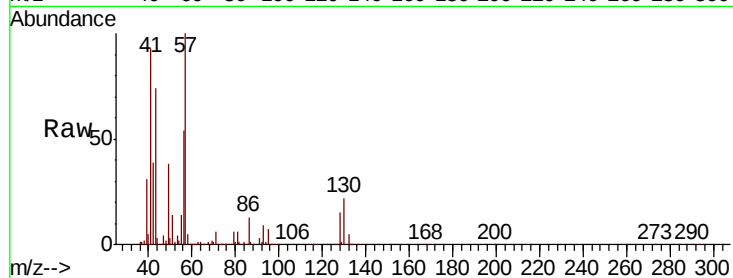




#26
Hexane
Concen: 9.923 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

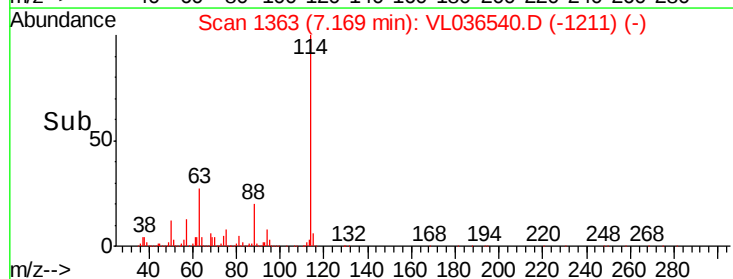
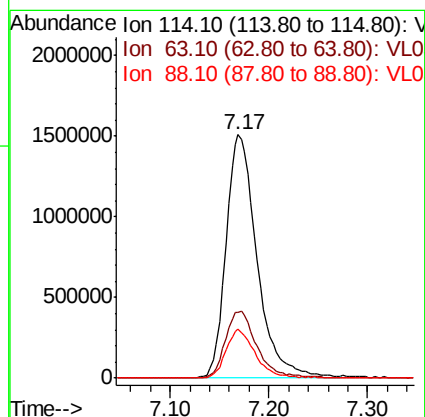
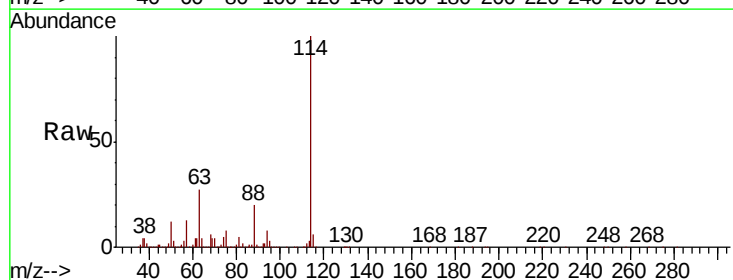
Instrument :
MSVOA_L
ClientSampled :

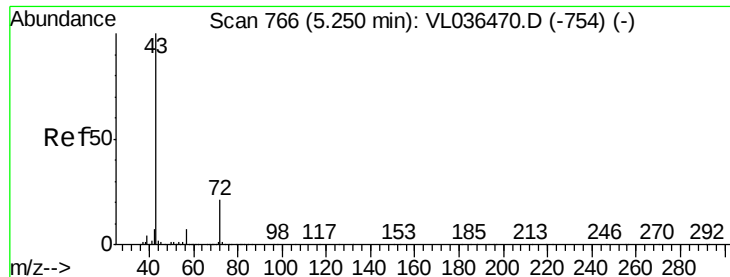
Tot Ion: 57 Resp: 1580526
Ion Ratio Lower Upper
57 100
41 97.5 77.2 115.8
43 75.2 173.8 260.6#
56 56.6 43.8 65.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

Tgt Ion: 114 Resp: 3324214
Ion Ratio Lower Upper
114 100
63 28.1 22.4 33.6
88 19.3 15.4 23.0





#34

2-Butanone

Concen: 0.332 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.00 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

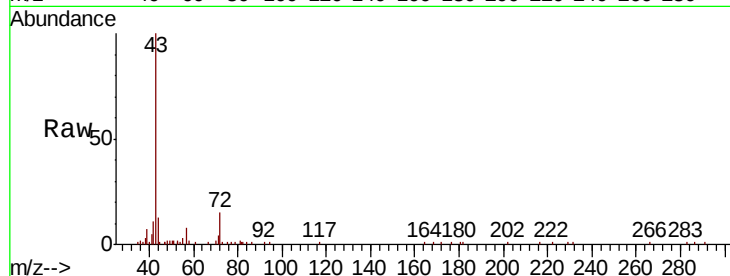
ClientSampleId :

Tot Ion: 43 Resp: 53797

Ion Ratio Lower Upper

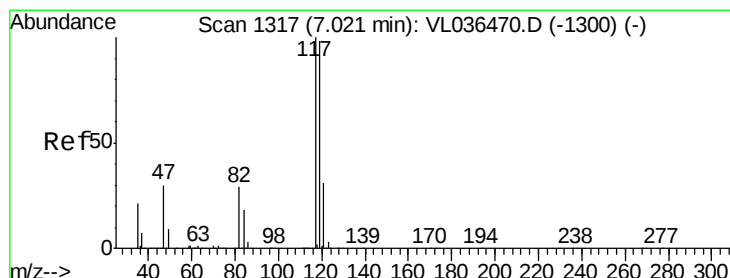
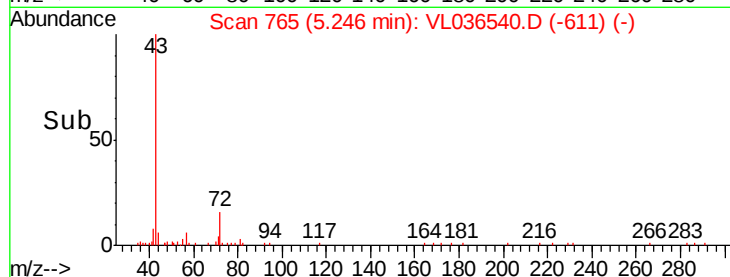
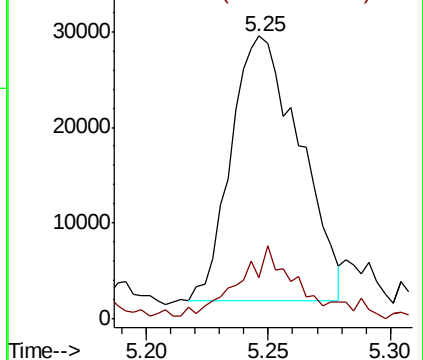
43 100

72 26.5 17.0 25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 7.01 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

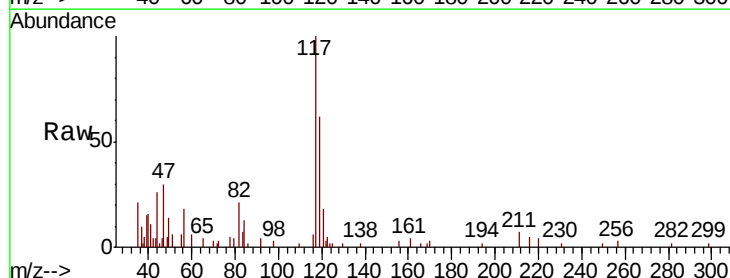
Tgt Ion: 117 Resp: 11290

Ion Ratio Lower Upper

117 100

119 44.9 78.2 117.2#

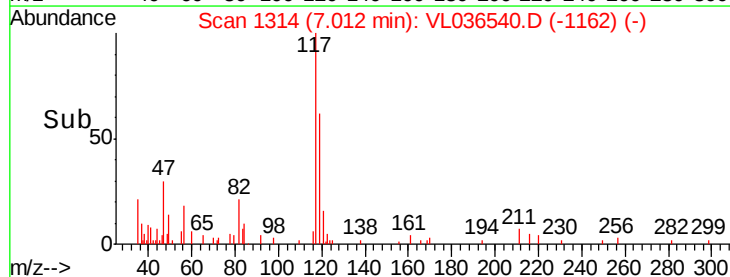
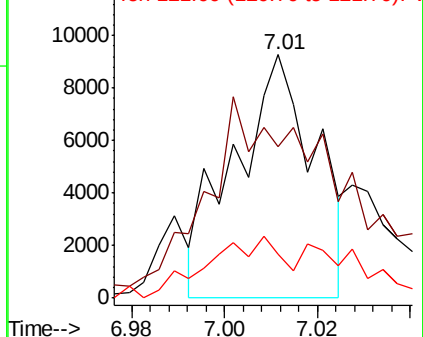
121 15.9 24.5 36.7#

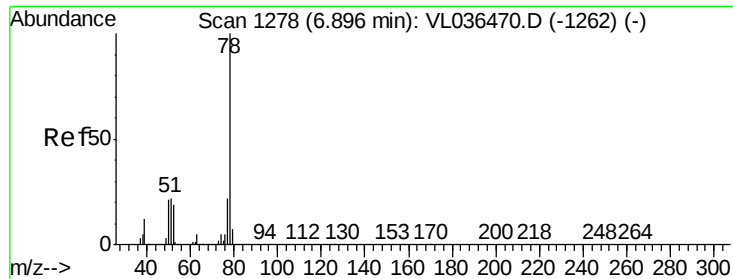


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.120 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

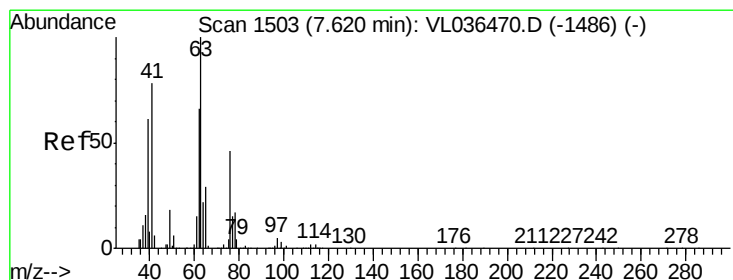
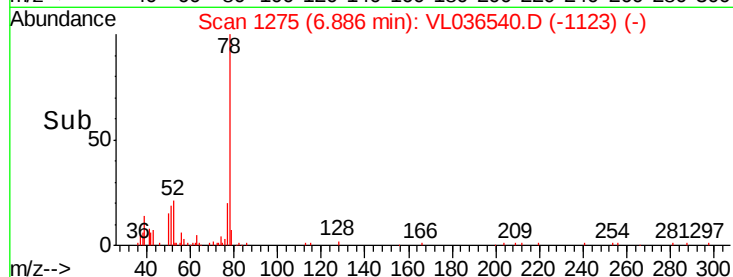
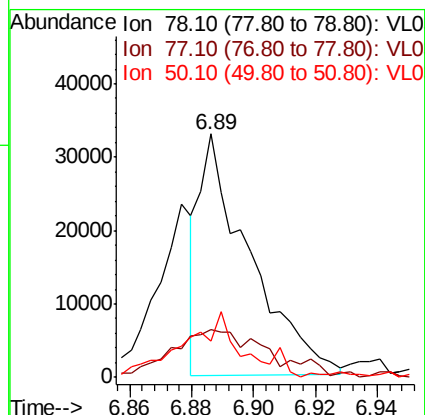
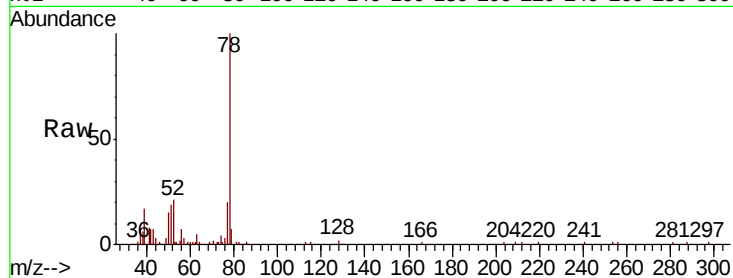
Tot Ion: 78 Resp: 36741

Ion Ratio Lower Upper

78 100

77 18.9 18.0 27.0

50 13.1 16.5 24.7#



#39

1,2-Dichloropropane

Concen: 7.431 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

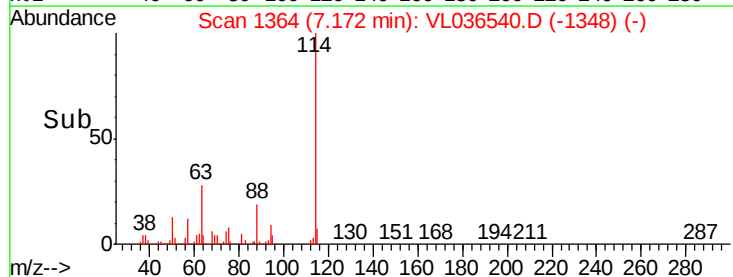
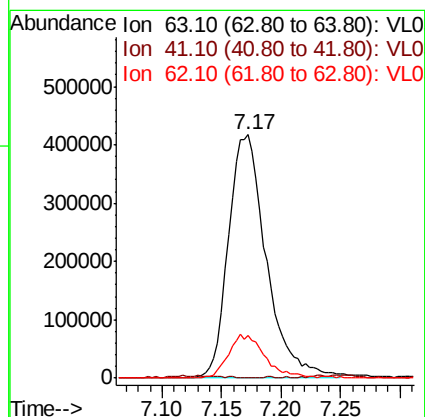
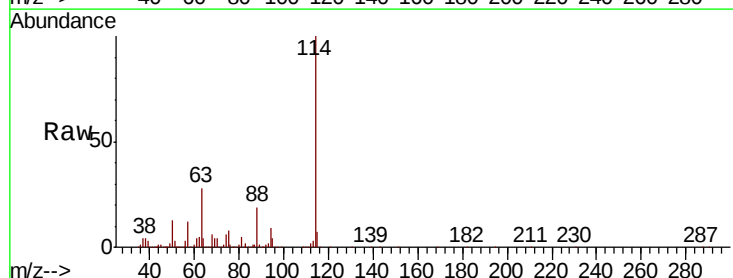
Tgt Ion: 63 Resp: 924180

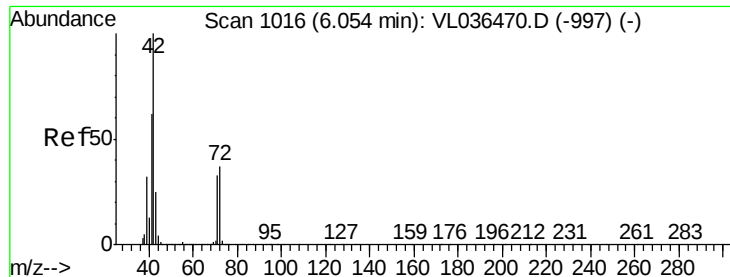
Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 17.3 52.8 79.2#

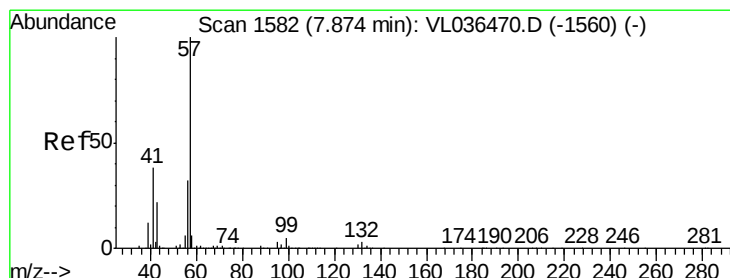
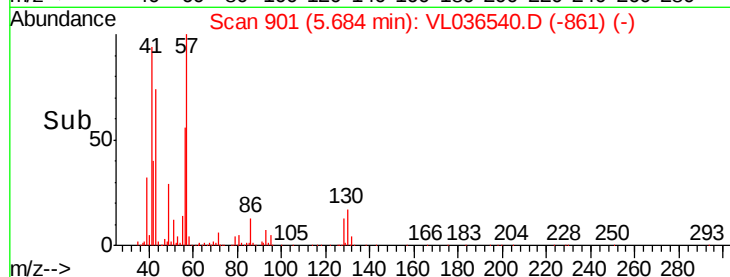
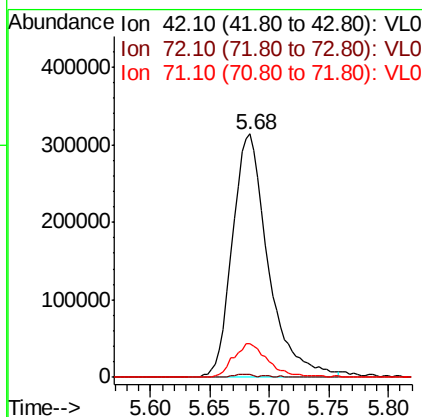
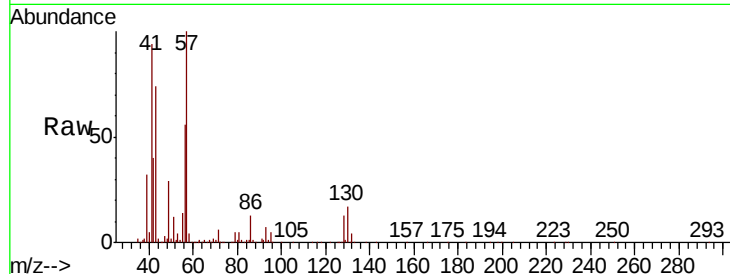




#41
Tetrahydrofuran
Concen: 8.765 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.37 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

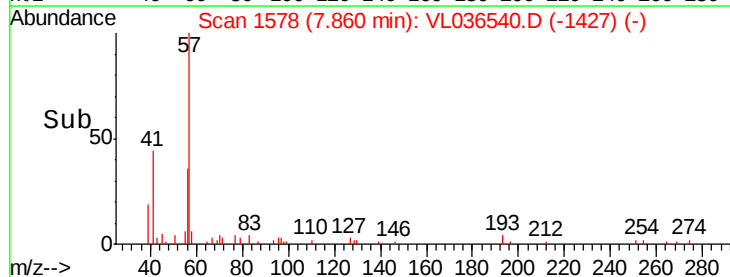
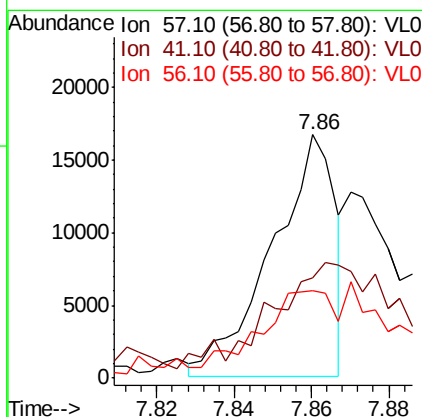
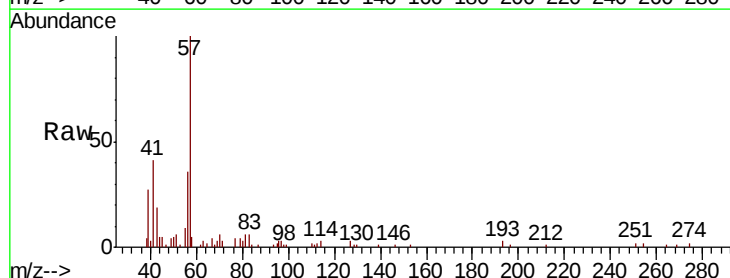
Instrument :
MSVOA_L
ClientSampleId :

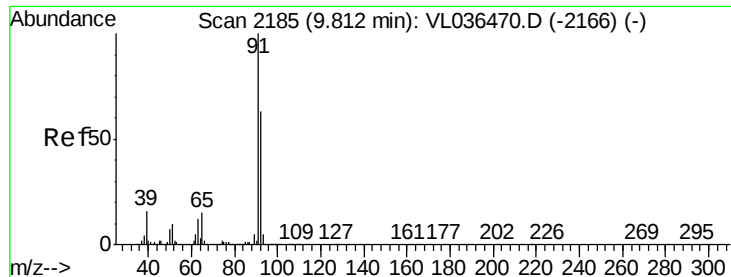
Tot Ion	Ratio	Lower	Upper
42	100		
72	1.0	27.6	41.4#
71	13.8	27.0	40.4#



#44
2,2,4-Trimethylpentane
Concen: 0.035 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. -0.01 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	122.4	28.8	43.2#
56	0.0	26.1	39.1#





#53

Toluene

Concen: 2.176 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

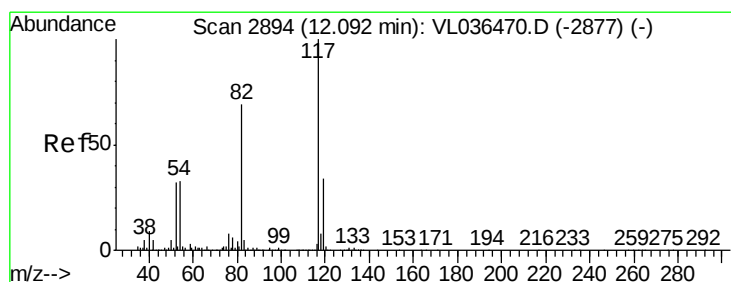
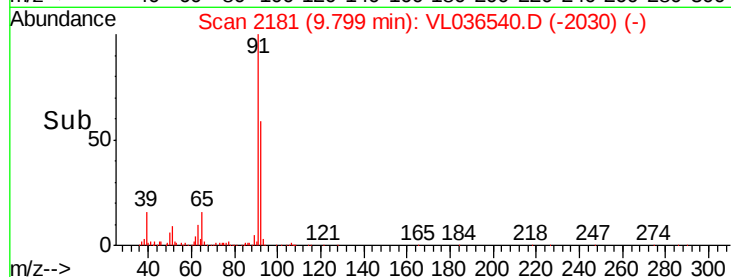
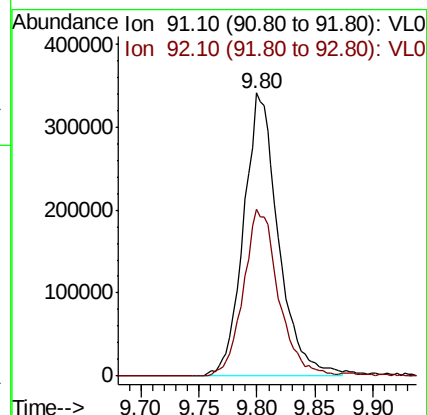
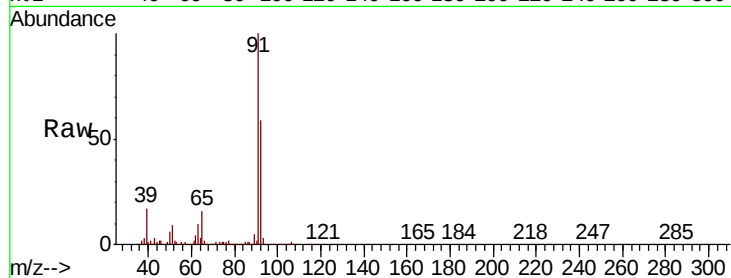
ClientSampleId :

Tot Ion: 91 Resp: 710484

Ion Ratio Lower Upper

91 100

92 60.0 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

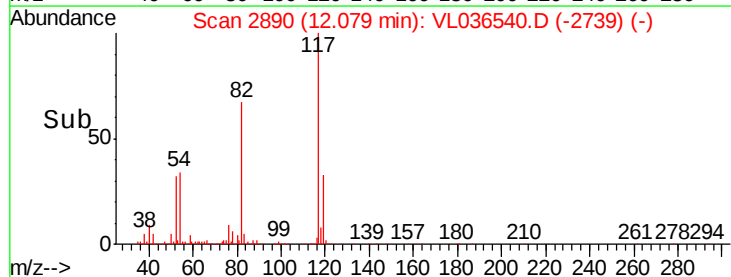
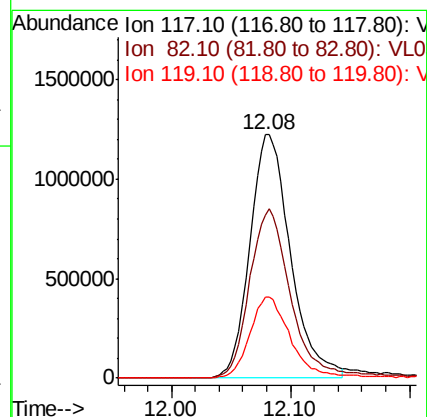
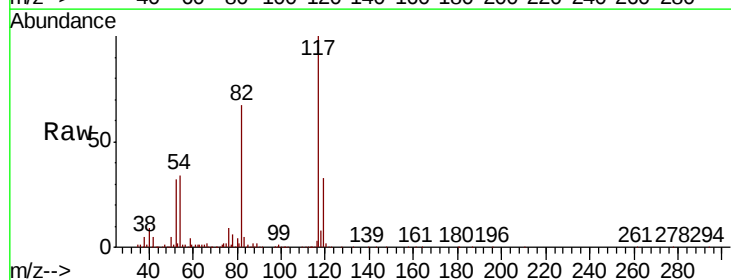
Tgt Ion: 117 Resp: 2893326

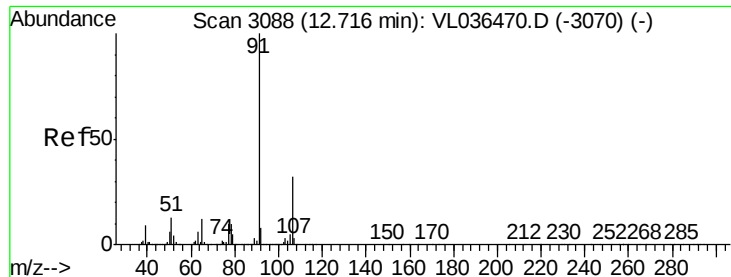
Ion Ratio Lower Upper

117 100

82 72.3 57.4 86.0

119 34.4 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.023 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.02 min

Lab File: VL036540.D

Acq: 29 Mar 2021 15:23

Instrument :

MSVOA_L

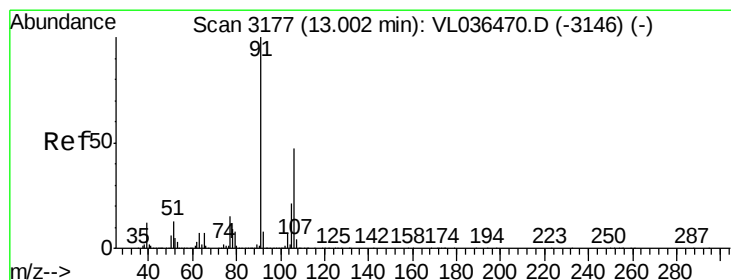
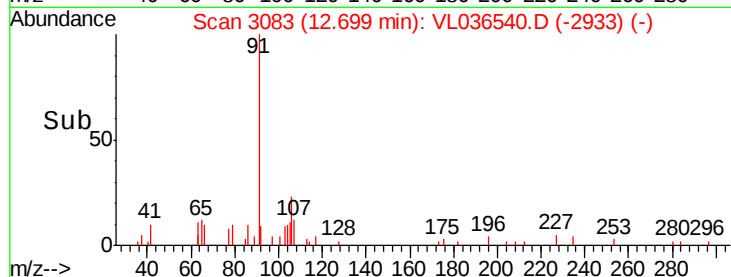
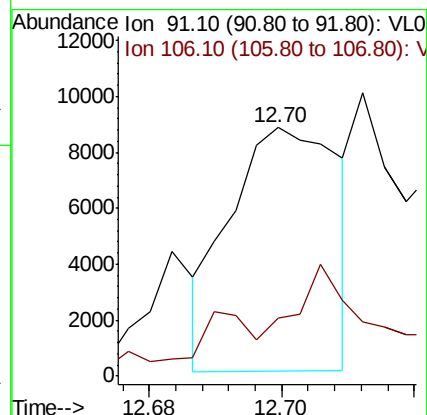
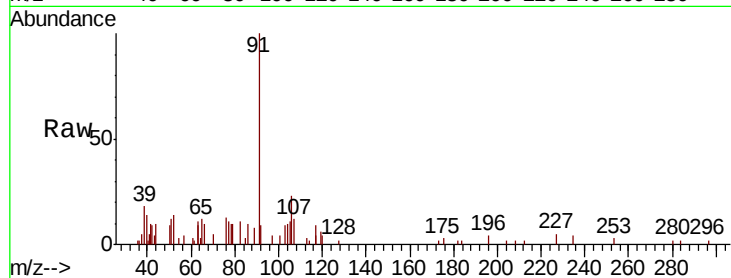
ClientSampleId :

Tot Ion: 91 Resp: 9875

Ion Ratio Lower Upper

91 100

106 26.9 25.3 37.9



#59

m/p-Xylene

Concen: 0.022 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VL036540.D

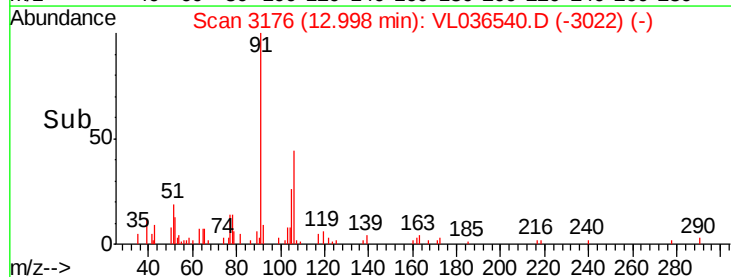
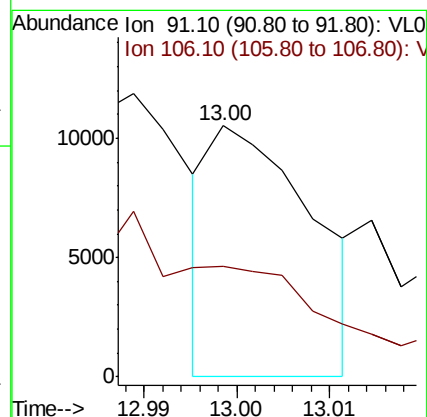
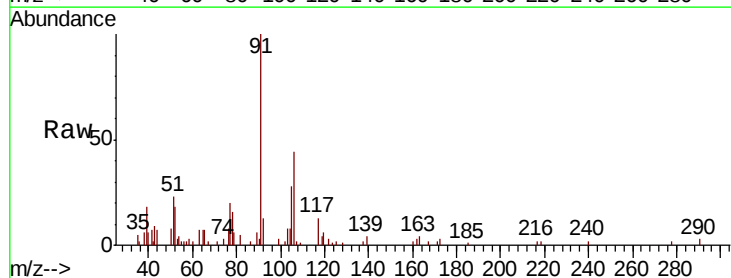
Acq: 29 Mar 2021 15:23

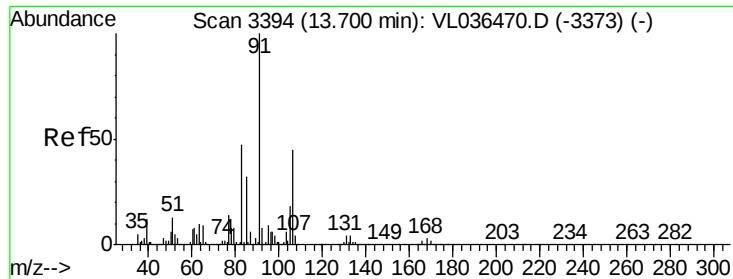
Tgt Ion: 91 Resp: 7984

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

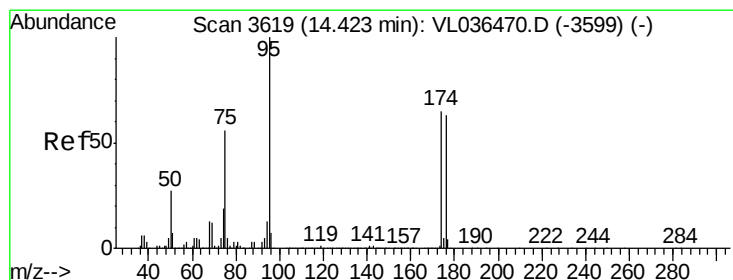
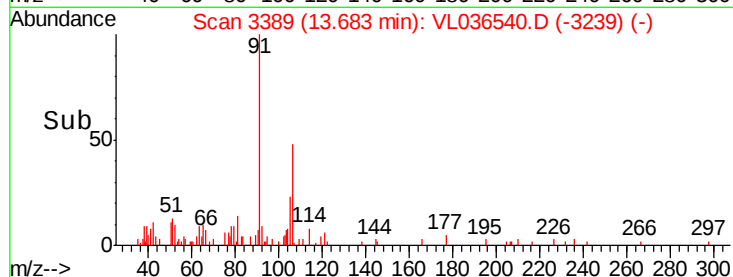
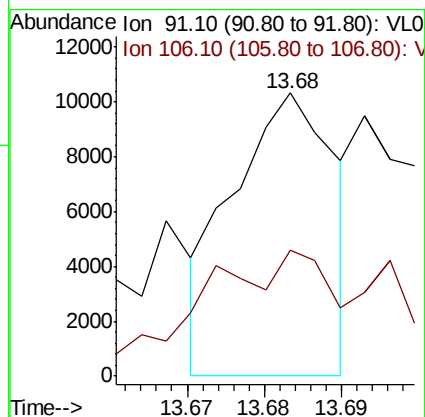
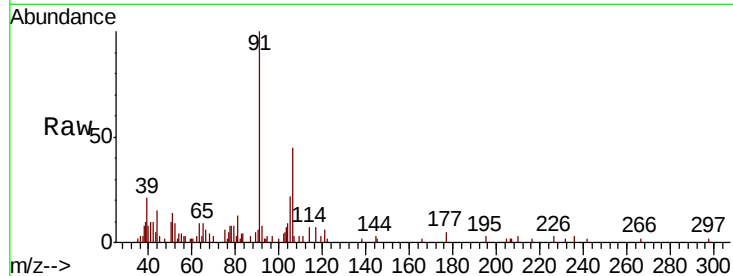




#60
o-Xylene
Concen: 0.027 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.02 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 9471
Ion Ratio Lower Upper
91 100
106 112.3 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.892 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. -0.01 min
Lab File: VL036540.D
Acq: 29 Mar 2021 15:23

Tgt Ion: 95 Resp: 2281125
Ion Ratio Lower Upper
95 100
174 67.0 51.0 76.6
175 4.6 3.9 5.9

