

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036276.D
 Acq On : 28 Jan 2021 18:00
 Operator : SY/AP
 Sample : M1245-02 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 29 02:26:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1693342	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3582222	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3241430	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2681224	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

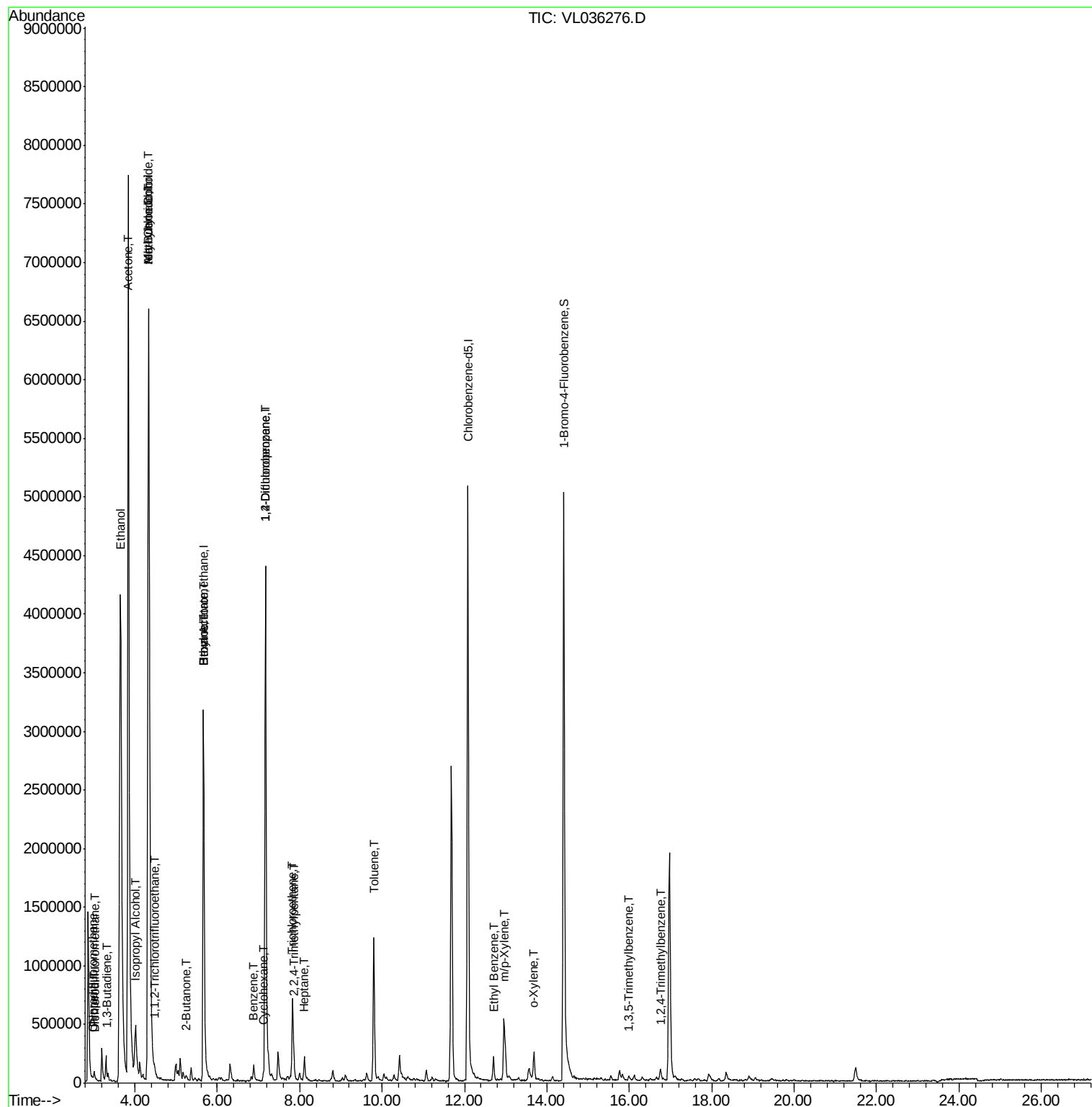
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	11352	0.050	ppbv	99
3) Chlorodifluoromethane	2.98	51	32207	0.155	ppbv #	91
9) Propene	3.01	41	12280	0.124	ppbv #	27
10) Heptane	8.11	43	84608	0.344	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4203	0.030	ppbv #	1
13) Ethanol	3.65	45	3997325	257.054	ppbv #	29
15) Acetone	3.84	43	11778850	56.797	ppbv	95
16) 1,3-Butadiene	3.32	39	7308	0.072	ppbv	95
17) tert-Butyl alcohol	4.33	59	9753168	56.992	ppbv	99
19) Isopropyl Alcohol	4.01	45	772262	6.177	ppbv #	1
20) Methylene Chloride	4.34	84	73150	1.105	ppbv #	83
21) Allyl Chloride	4.33	41	3602508	31.913	ppbv #	61
25) Ethyl Acetate	5.67	43	389981	0.937	ppbv	99
26) Hexane	5.67	57	193901	1.119	ppbv	83
30) Cyclohexane	7.12	84	7326	0.055	ppbv #	1
34) 2-Butanone	5.24	43	24326	0.092	ppbv #	56
36) Benzene	6.88	78	95918	0.292	ppbv #	91
38) Trichloroethene	7.83	130	212238	1.746	ppbv	90
39) 1,2-Dichloropropane	7.17	63	1053529	7.905	ppbv #	21
44) 2,2,4-Trimethylpentane	7.86	57	63371	0.105	ppbv #	25
53) Toluene	9.80	91	1002402	2.730	ppbv	98
58) Ethyl Benzene	12.70	91	173316	0.360	ppbv	95
59) m/p-Xylene	12.98	91	202312	0.489	ppbv #	33
60) o-Xylene	13.69	91	67164	0.169	ppbv #	32
73) 1,3,5-Trimethylbenzene	15.99	105	12984	0.030	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	42652	0.097	ppbv #	67

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

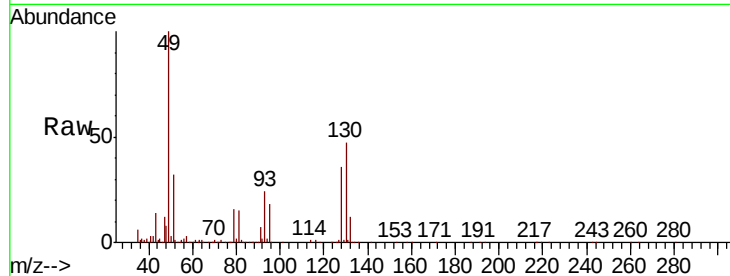
Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1693342

Ion	Ratio	Lower	Upper
49	100		
128	40.5	20.1	60.2
130	50.8	25.3	75.9

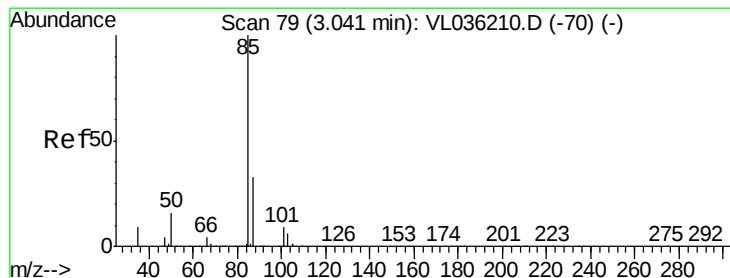
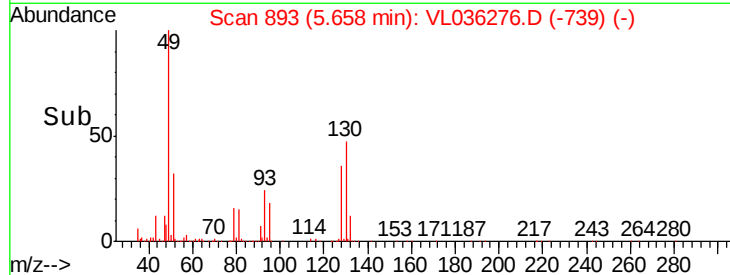


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.04 min Scan# 79

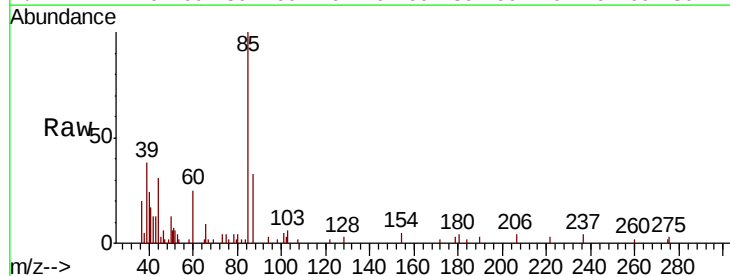
Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Tgt Ion: 85 Resp: 11352

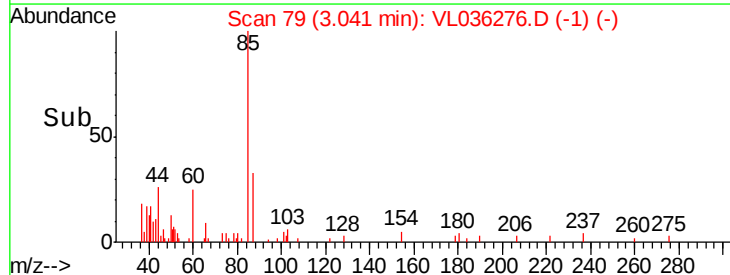
Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.4	39.6

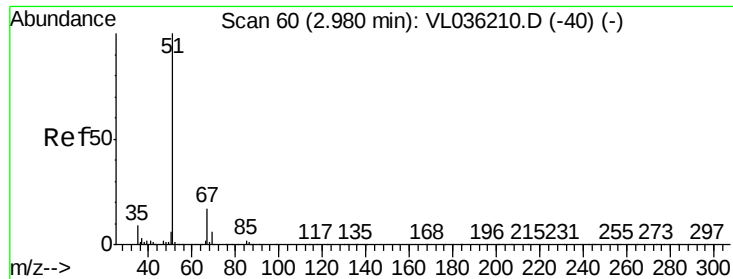


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->





#3

Chlorodifluoromethane

Concen: 0.155 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

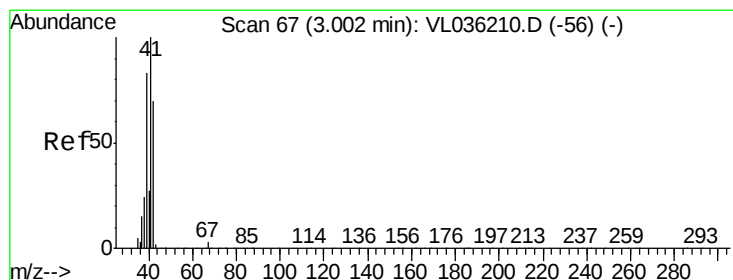
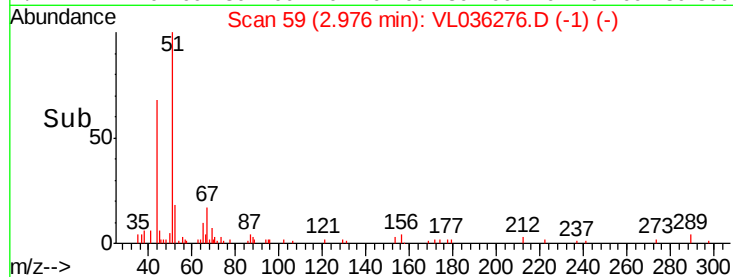
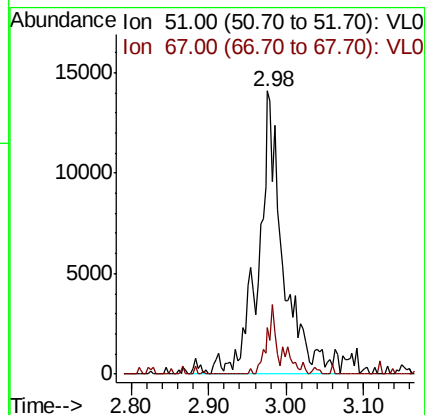
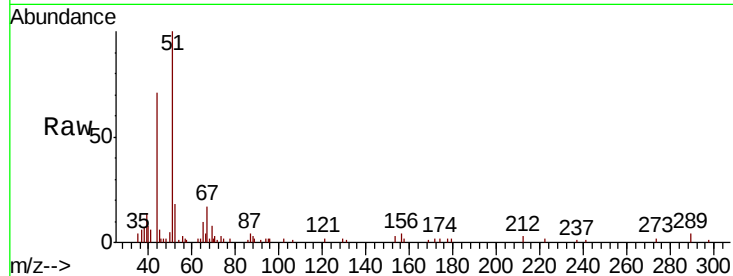
ClientSampleId :

Tot Ion: 51 Resp: 32207

Ion Ratio Lower Upper

51 100

67 13.4 14.0 21.0#



#9

Propene

Concen: 0.124 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL036276.D

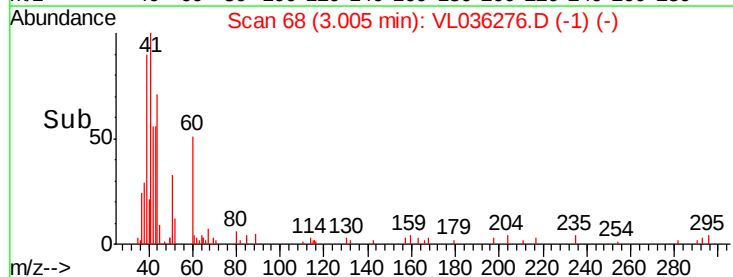
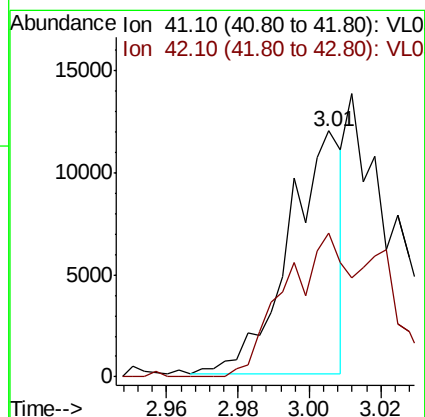
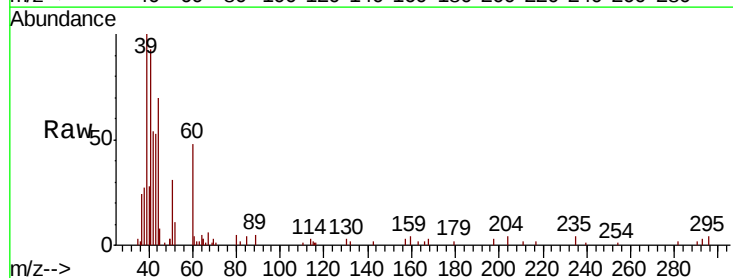
Acq: 28 Jan 2021 18:00

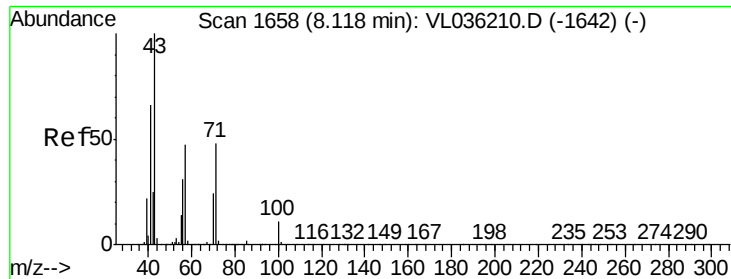
Tgt Ion: 41 Resp: 12280

Ion Ratio Lower Upper

41 100

42 132.1 57.1 85.7#





#10

Heptane

Concen: 0.344 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.01 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

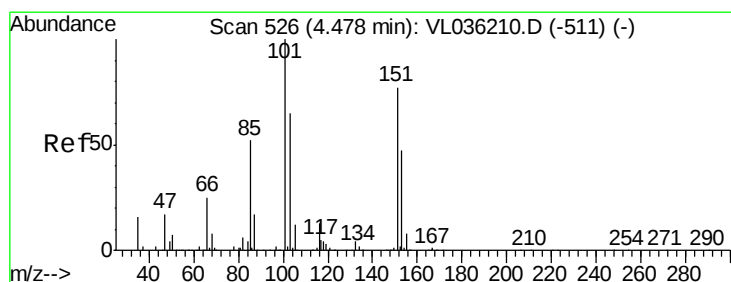
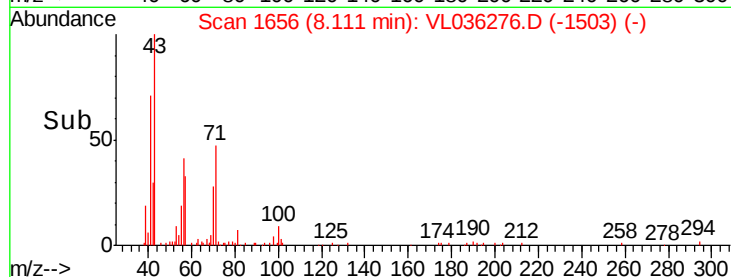
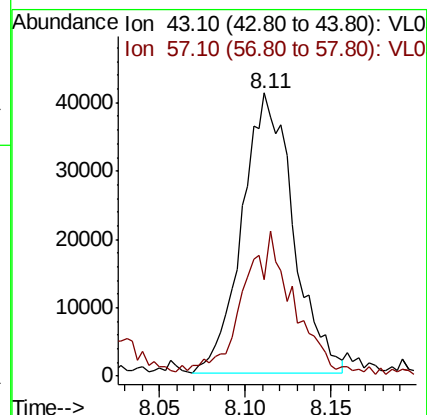
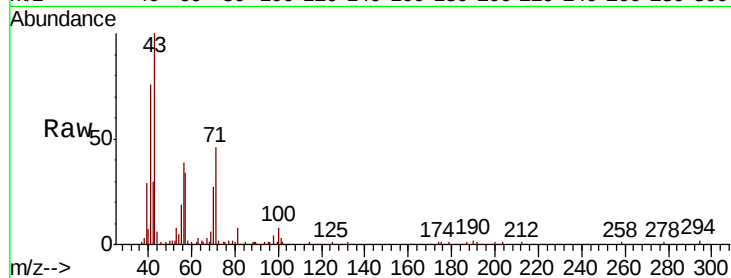
ClientSampleId :

Tot Ion: 43 Resp: 84608

Ion Ratio Lower Upper

43 100

57 47.4 38.1 57.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.030 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL036276.D

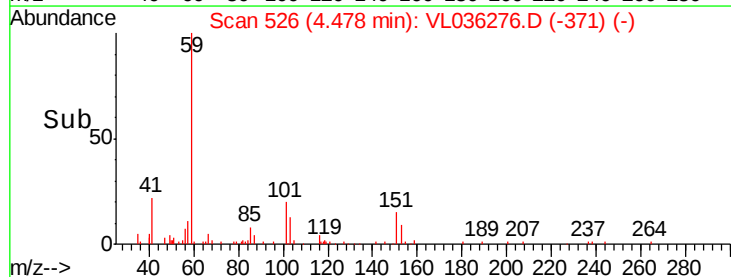
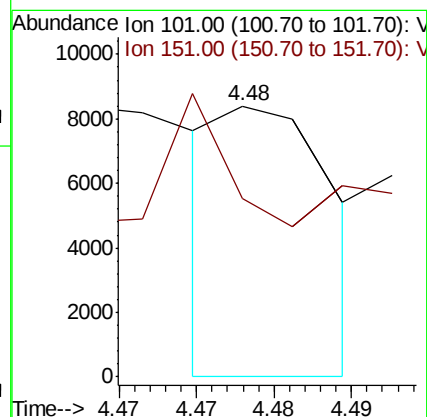
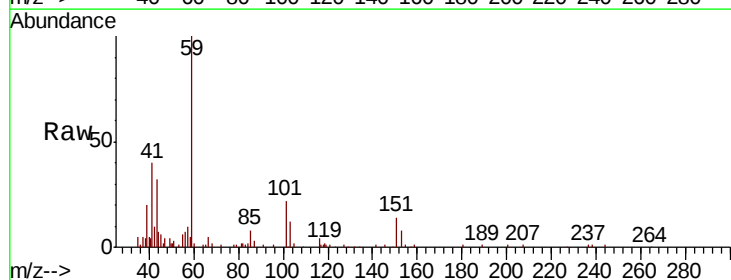
Acq: 28 Jan 2021 18:00

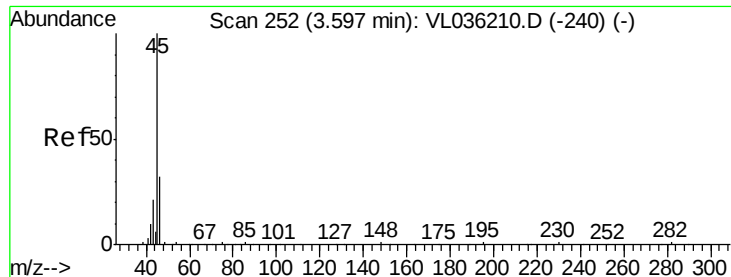
Tgt Ion: 101 Resp: 4203

Ion Ratio Lower Upper

101 100

151 312.8 59.8 89.6#

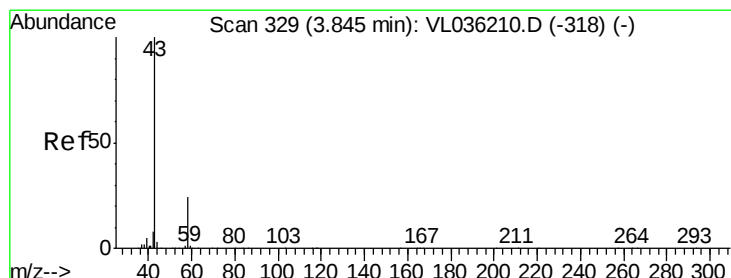
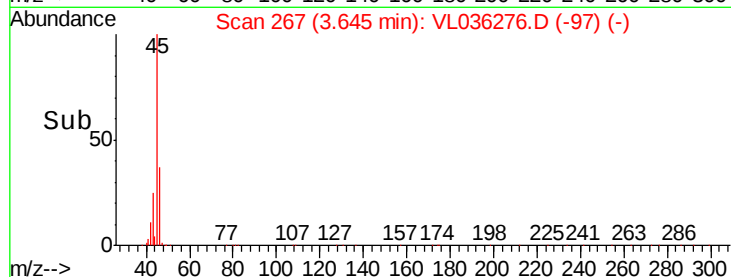
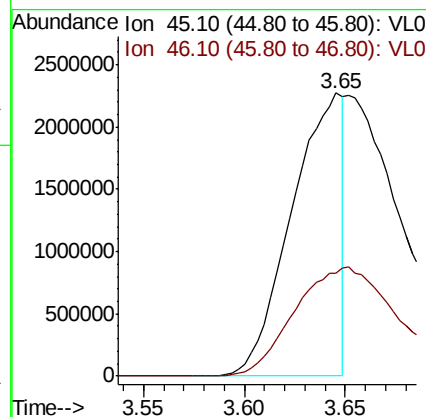
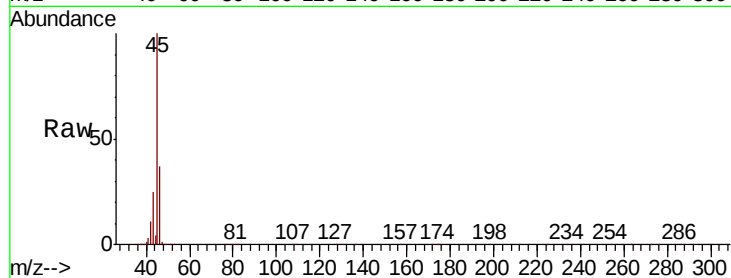




#13
Ethanol
Concen: 257.054 ppbv
RT: 3.65 min Scan# 267
Delta R.T. 0.05 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

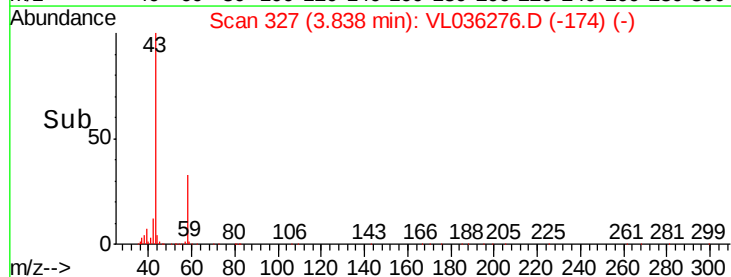
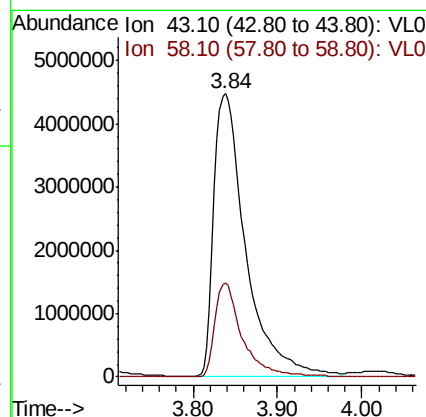
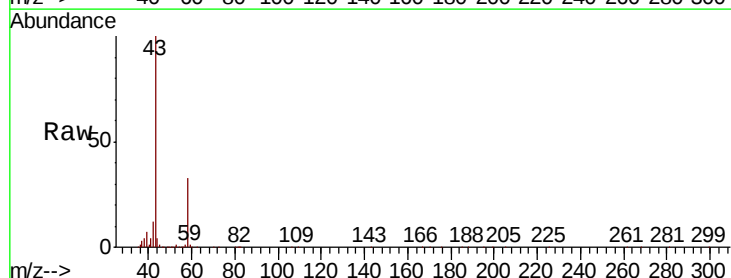
Instrument :
MSVOA_L
ClientSampleId :

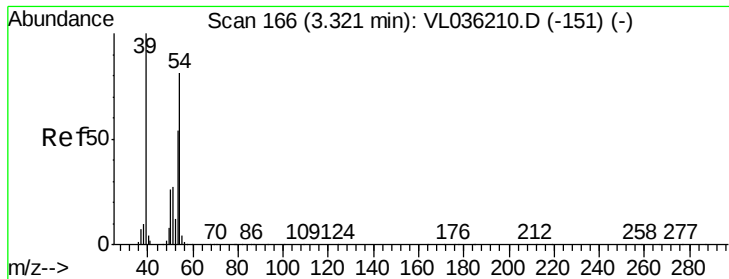
Tot Ion: 45 Resp: 3997325
Ion Ratio Lower Upper
45 100
46 0.0 19.2 77.0#



#15
Acetone
Concen: 56.797 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion: 43 Resp: 11778850
Ion Ratio Lower Upper
43 100
58 28.6 20.9 31.3

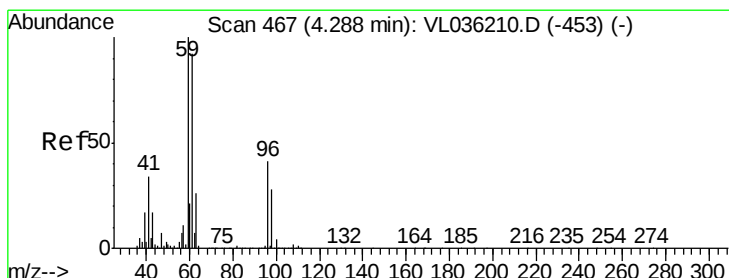
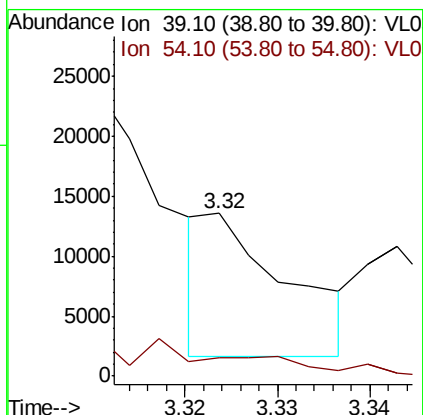
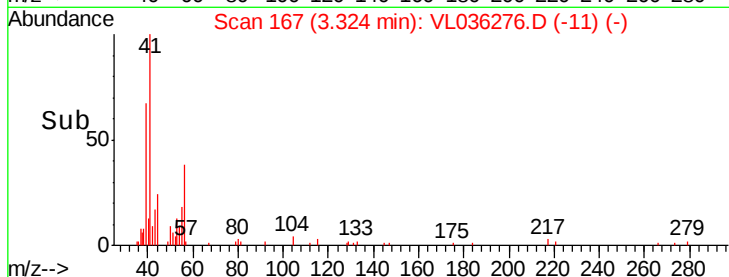
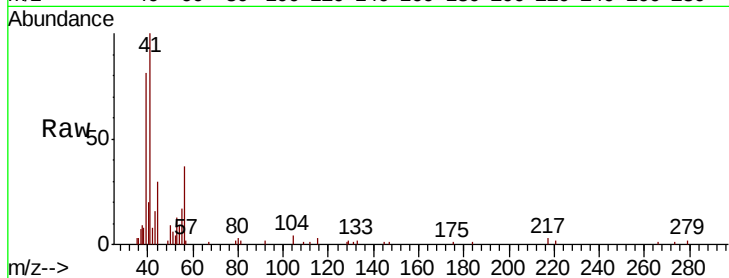




#16
1,3-Butadiene
Concen: 0.072 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.00 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

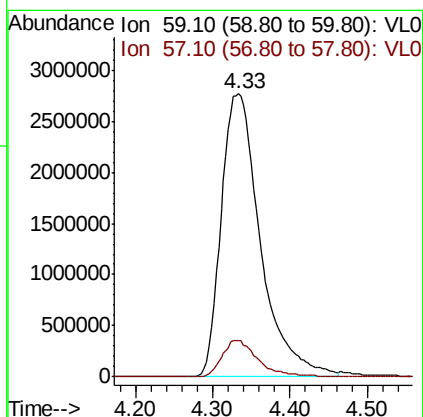
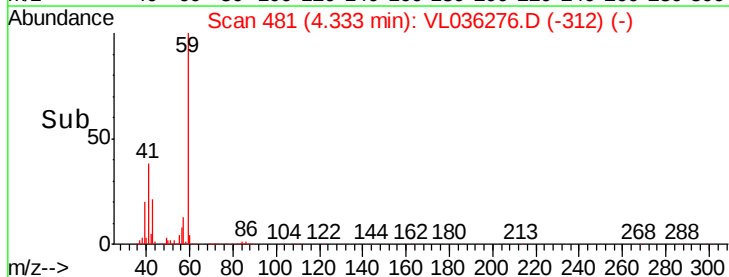
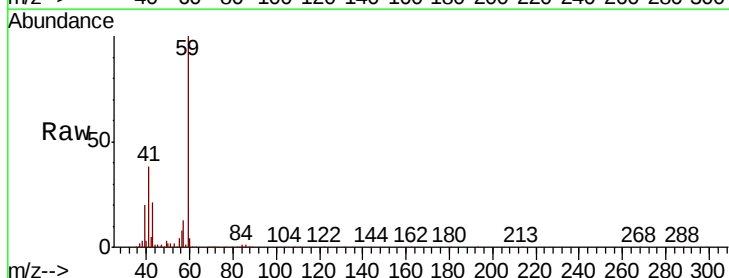
Instrument :
MSVOA_L
ClientSampleId :

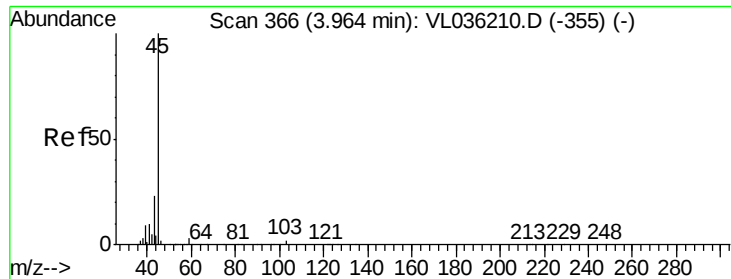
Tot Ion: 39 Resp: 7308
Ion Ratio Lower Upper
39 100
54 82.4 62.5 93.7



#17
tert-Butyl alcohol
Concen: 56.992 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.04 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion: 59 Resp: 9753168
Ion Ratio Lower Upper
59 100
57 12.1 9.2 13.8





#19

Isopropyl Alcohol

Concen: 6.177 ppbv

RT: 4.01 min Scan# 381

Delta R.T. 0.05 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

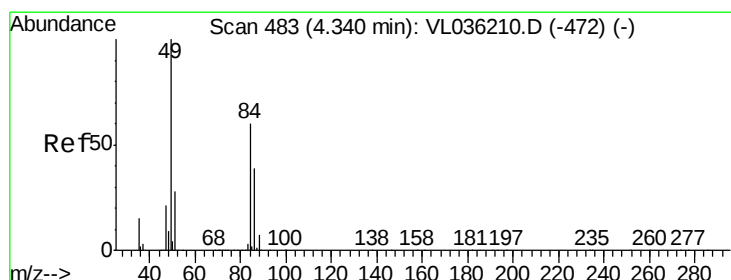
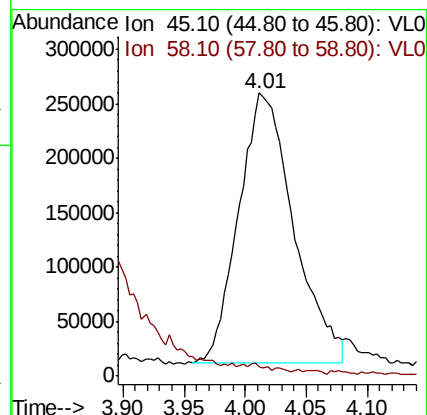
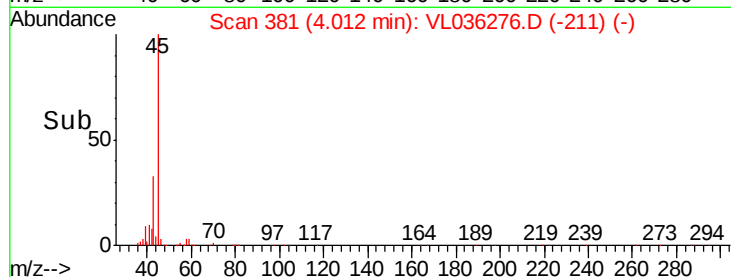
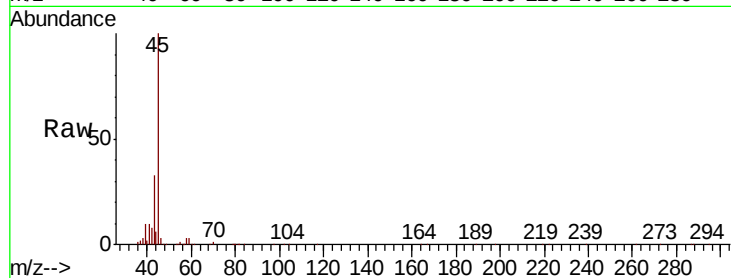
ClientSampled :

Tot Ion: 45 Resp: 772262

Ion Ratio Lower Upper

45 100

58 440.8 1.9 2.9#



#20

Methylene Chloride

Concen: 1.105 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Tgt Ion: 84 Resp: 73150

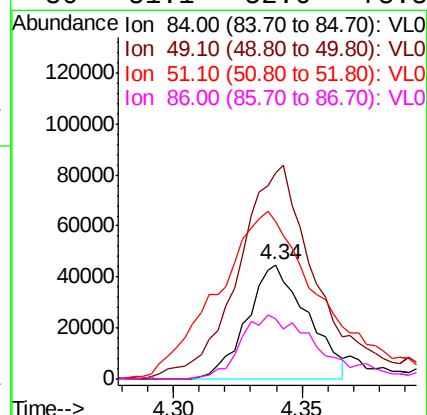
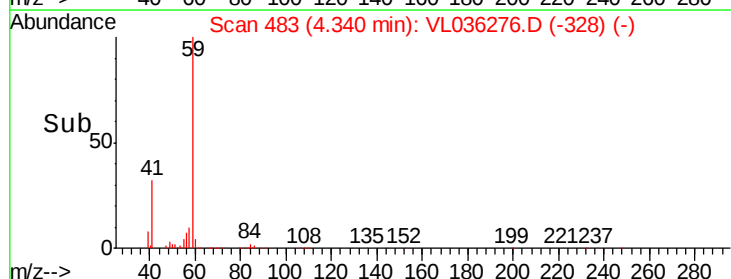
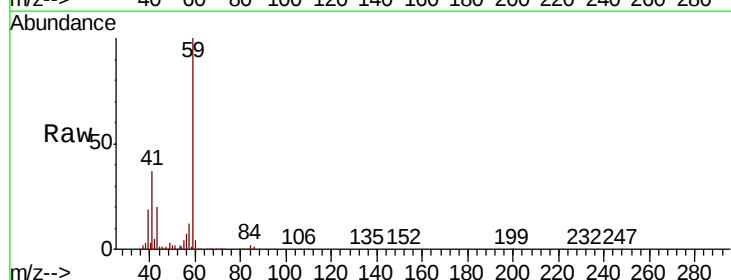
Ion Ratio Lower Upper

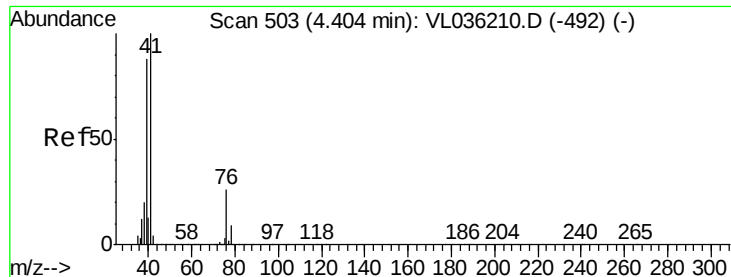
84 100

49 163.6 134.1 201.1

51 91.7 37.4 56.0#

86 51.1 52.6 78.8#

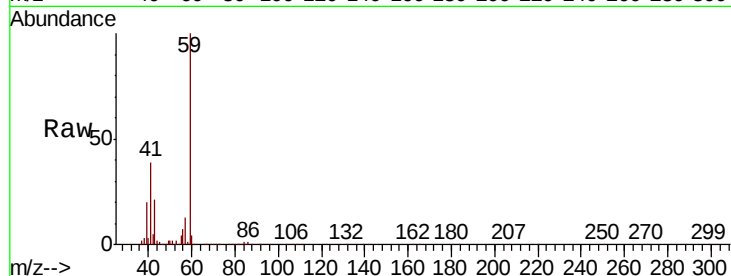




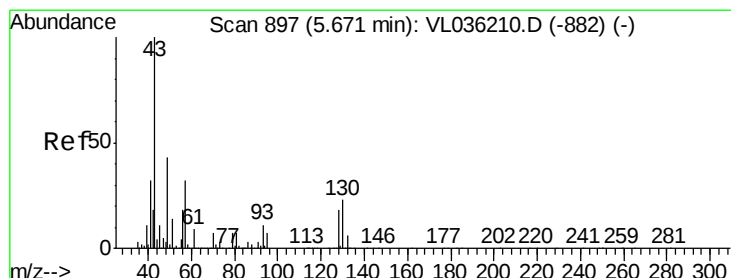
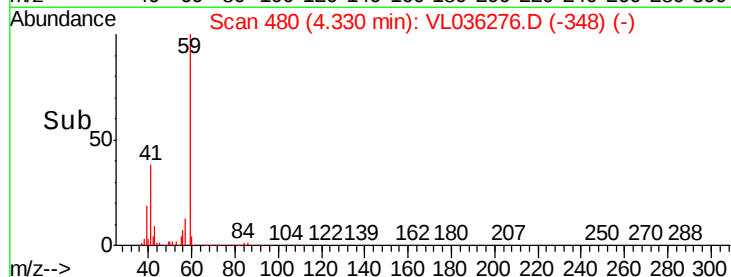
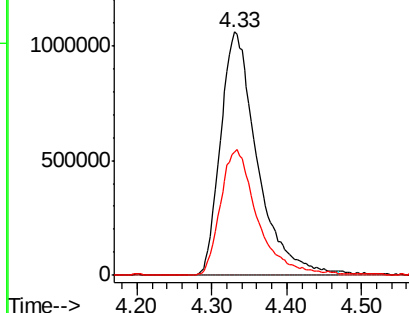
#21
Allvl Chloride
Concen: 31.913 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.07 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 3602508
Ion Ratio Lower Upper
41 100
76 0.0 20.5 30.7#
39 52.7 67.8 101.8#

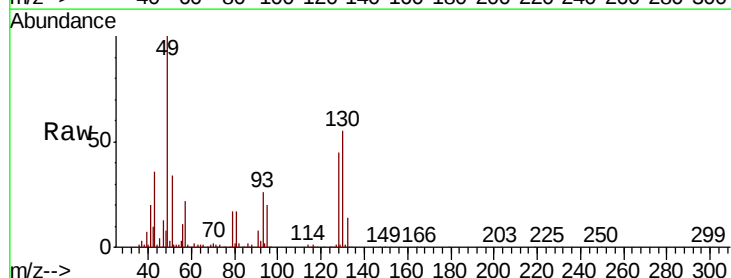


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

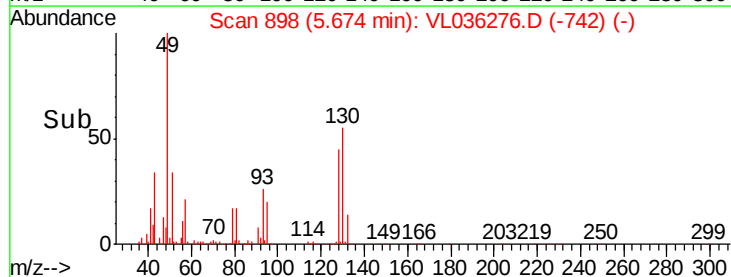
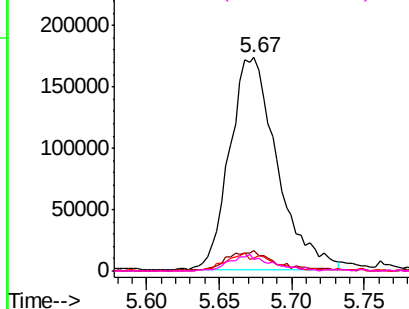


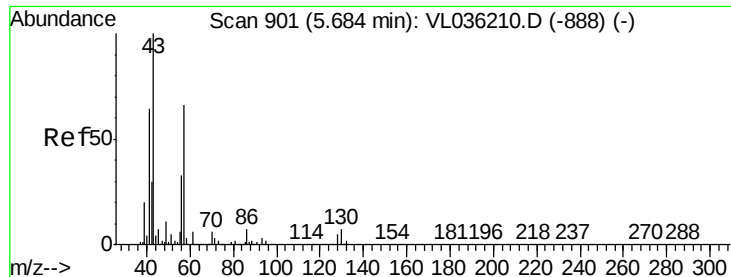
#25
Ethyl Acetate
Concen: 0.937 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion: 43 Resp: 389981
Ion Ratio Lower Upper
43 100
45 10.6 8.3 12.5
61 8.4 7.4 11.2
70 7.1 5.5 8.3



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

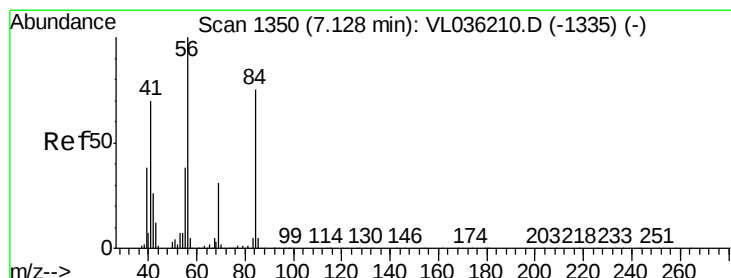
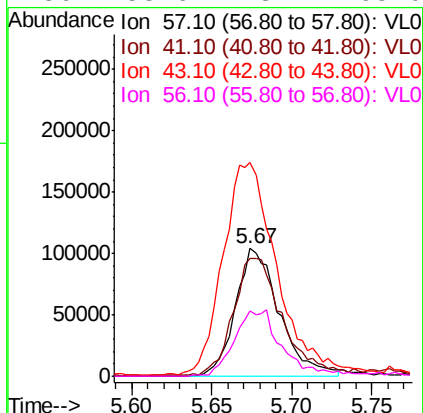
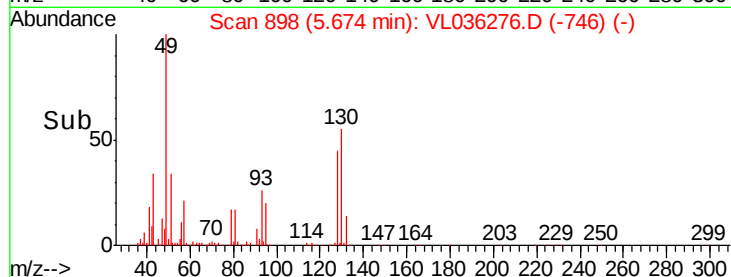
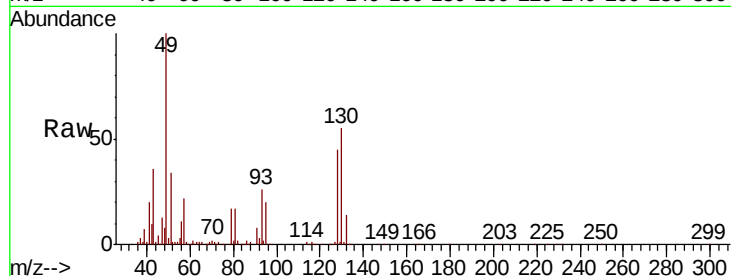




#26
Hexane
Concen: 1.119 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

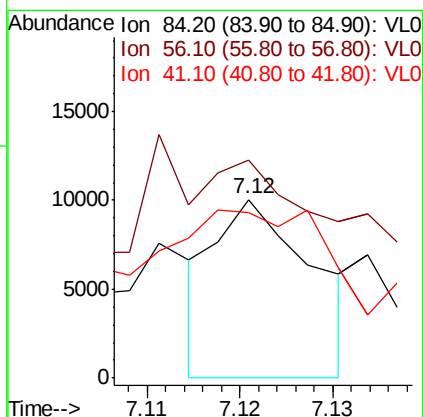
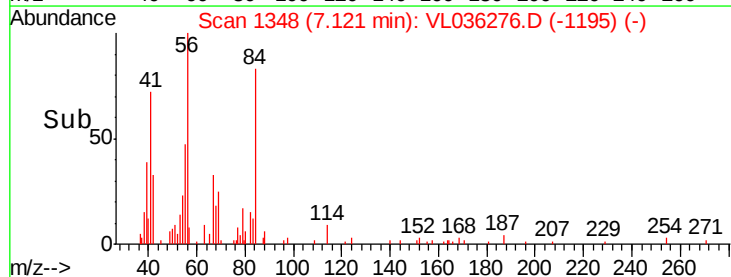
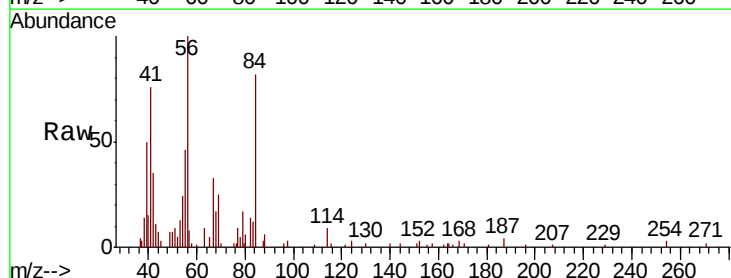
Instrument :
MSVOA_L
ClientSampled :

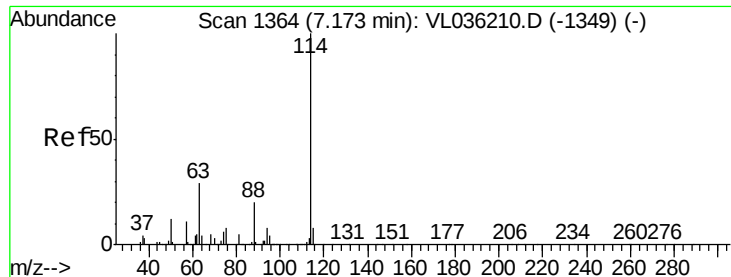
Tot Ion:	57	Resp:	193901
Ion	Ratio	Lower	Upper
57	100		
41	110.5	83.0	124.6
43	211.4	202.4	303.6
56	58.6	43.4	65.0



#30
Cyclohexane
Concen: 0.055 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion:	84	Resp:	7326
Ion	Ratio	Lower	Upper
84	100		
56	0.0	119.4	179.0#
41	0.0	79.4	119.0#

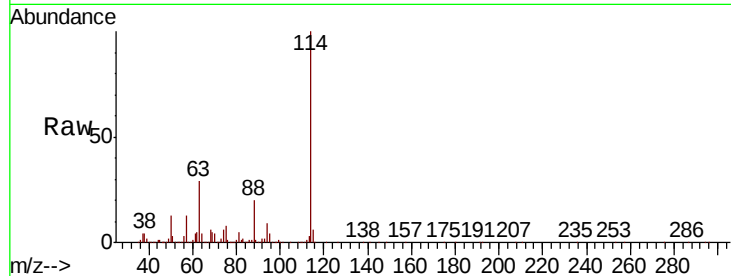




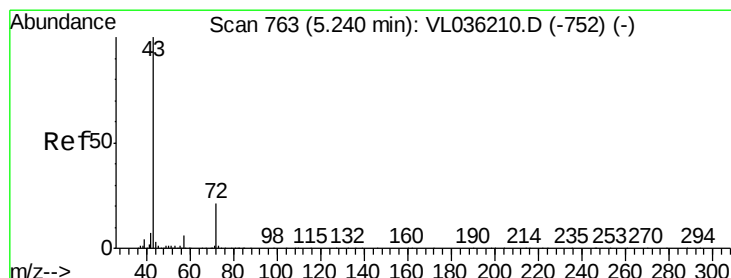
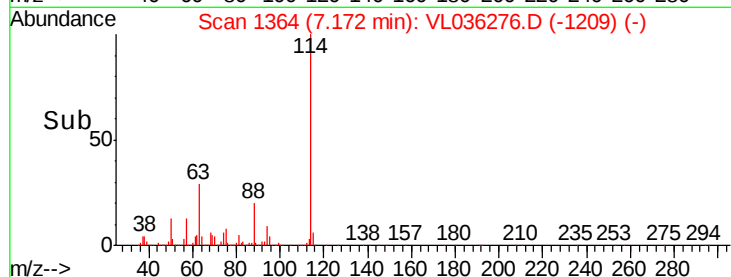
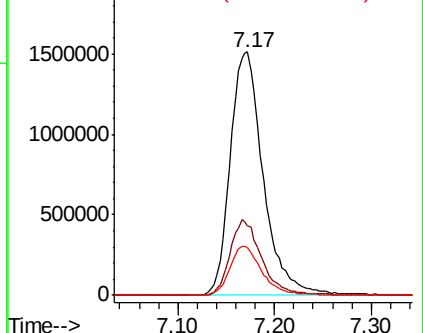
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3582222
 Ion Ratio Lower Upper
 114 100
 63 30.0 24.7 37.1
 88 19.8 16.6 24.8

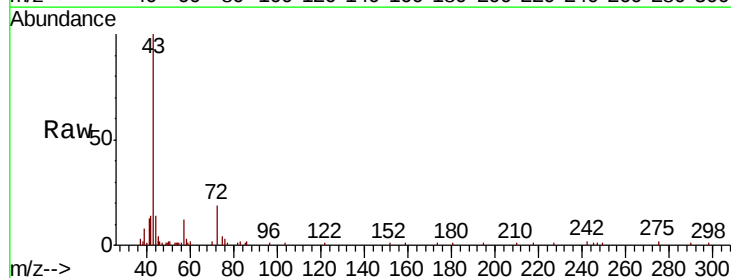


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

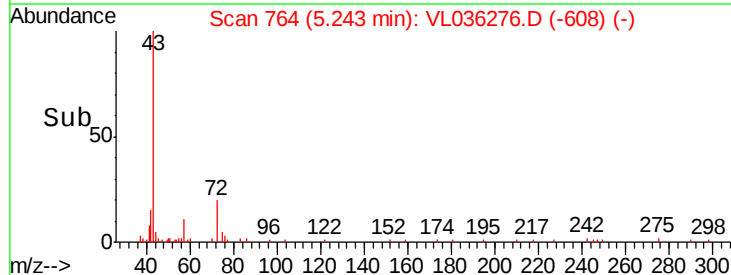
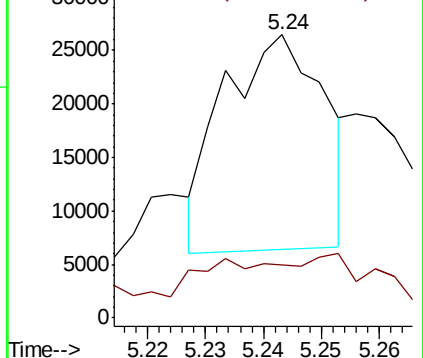


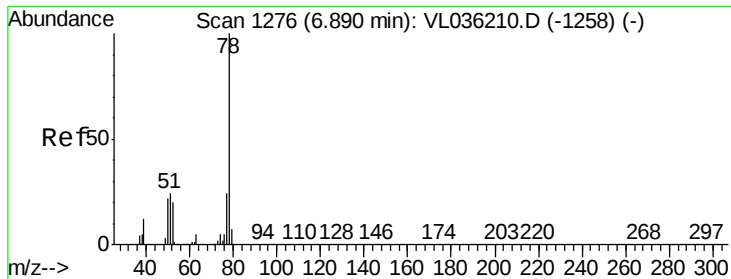
#34
 2-Butanone
 Concen: 0.092 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Tgt Ion: 43 Resp: 24326
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.1 24.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.292 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

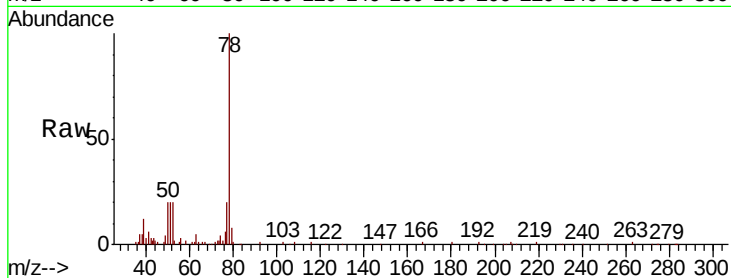
Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

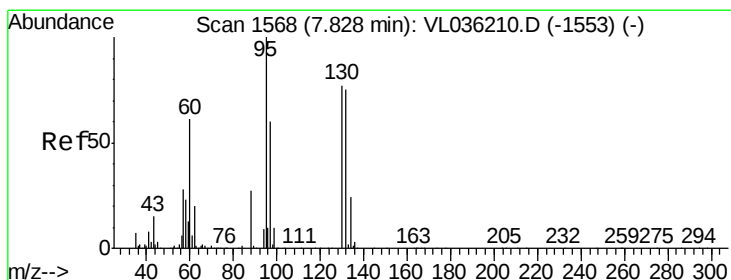
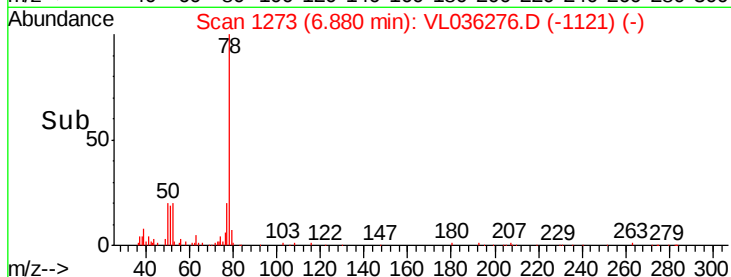
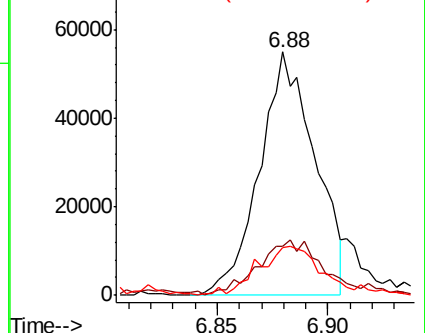
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 78 Resp: 95918

Ion	Ratio	Lower	Upper
78	100		
77	18.6	19.4	29.0#
50	19.1	17.4	26.2



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



#38

Trichloroethene

Concen: 1.746 ppbv

RT: 7.83 min Scan# 1567

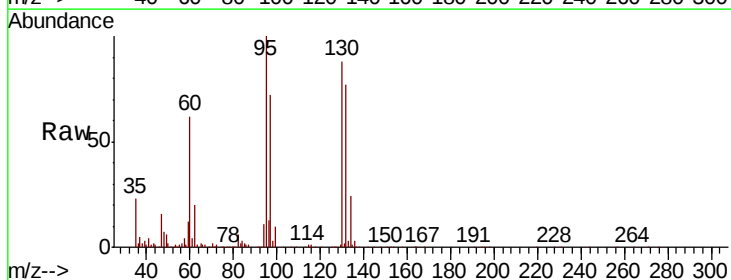
Delta R.T. -0.00 min

Lab File: VL036276.D

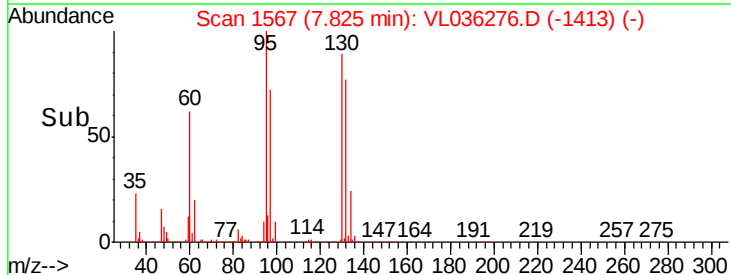
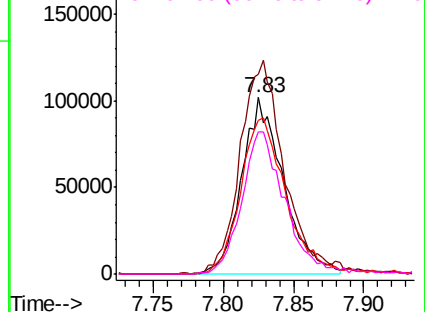
Acq: 28 Jan 2021 18:00

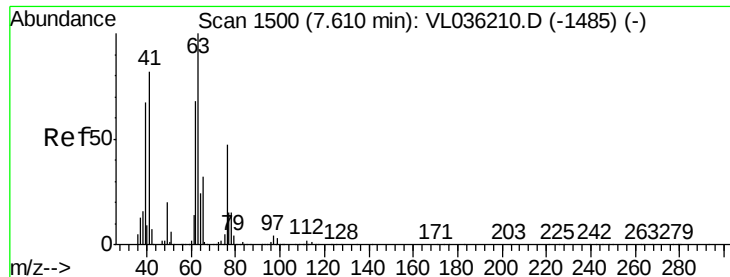
Tgt Ion: 130 Resp: 212238

Ion	Ratio	Lower	Upper
130	100		
95	113.0	103.9	155.9
132	87.3	77.4	116.2
97	81.0	62.5	93.7



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

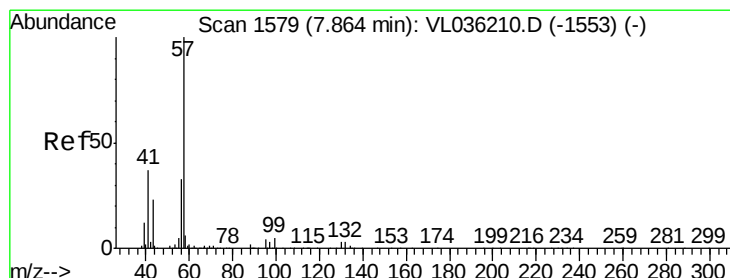
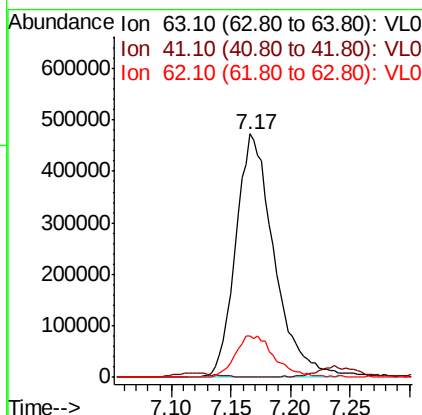
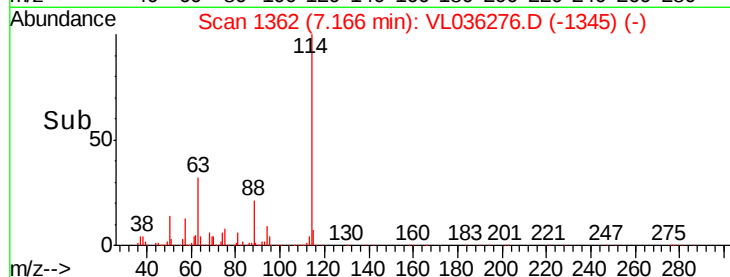
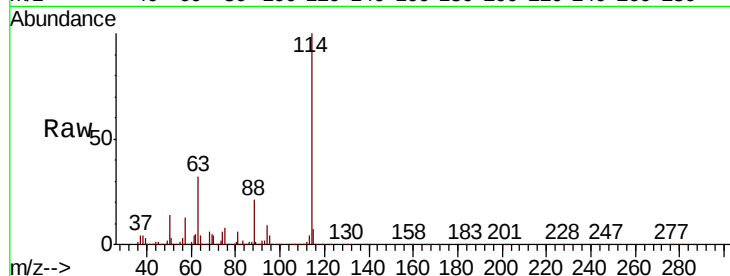




#39
 1,2-Dichloropropane
 Concen: 7.905 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.44 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

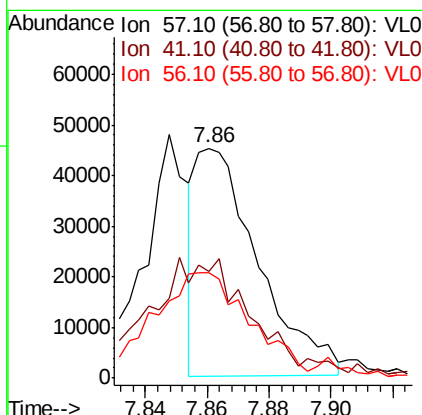
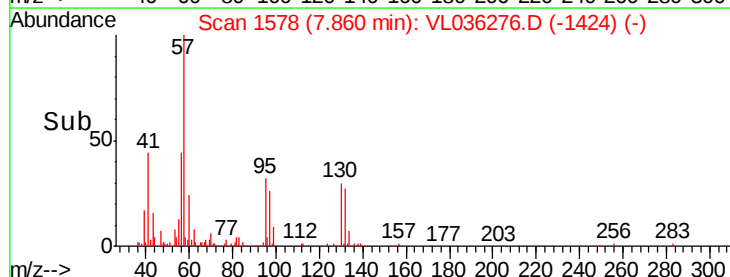
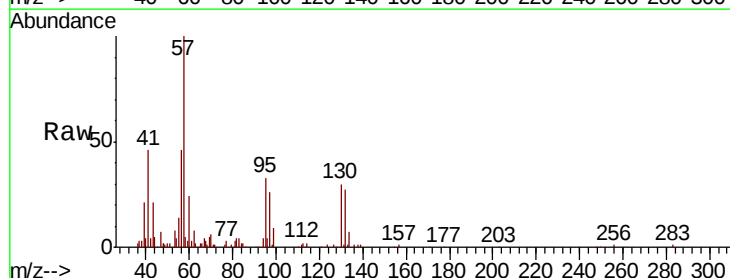
Instrument :
 MSVOA_L
 ClientSampleId :

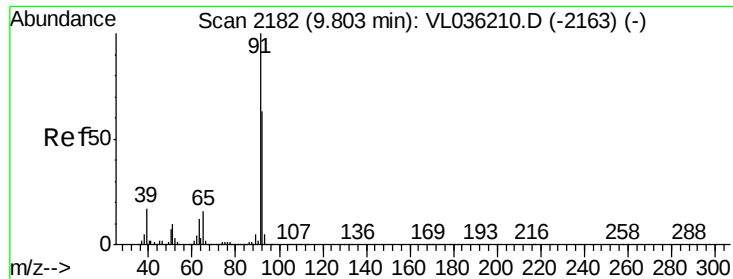
Tot Ion: 63 Resp: 1053529
 Ion Ratio Lower Upper
 63 100
 41 0.0 66.1 99.1#
 62 16.7 54.8 82.2#



#44
 2,2,4-Trimethylpentane
 Concen: 0.105 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Tgt Ion: 57 Resp: 63371
 Ion Ratio Lower Upper
 57 100
 41 0.0 28.5 42.7#
 56 82.3 25.5 38.3#





#53

Toluene

Concen: 2.730 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

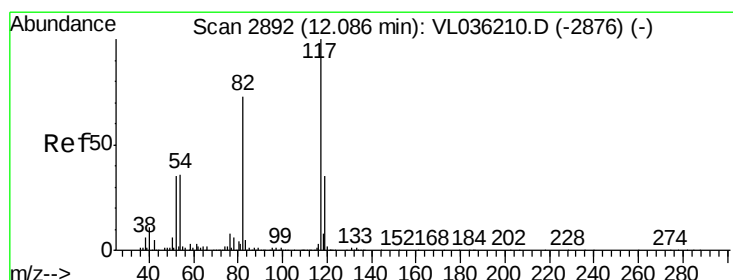
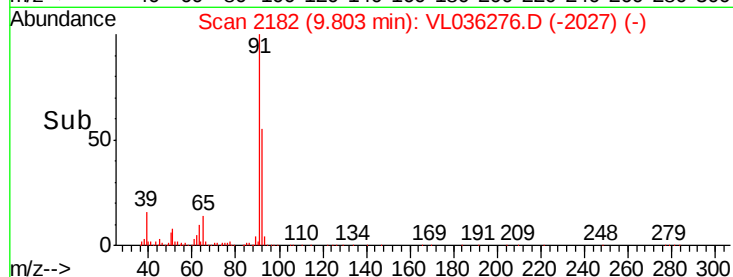
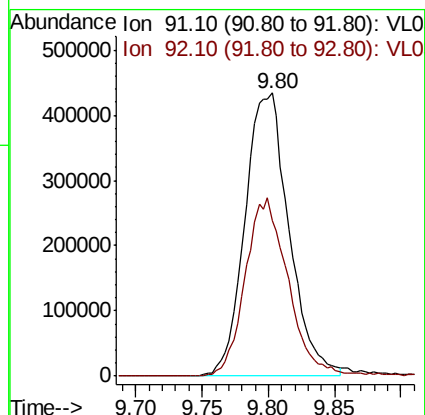
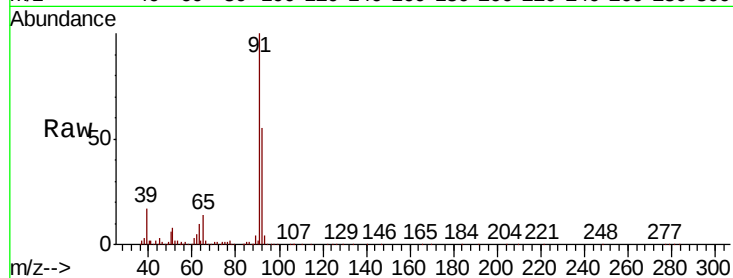
ClientSampleId :

Tot Ion: 91 Resp: 1002402

Ion Ratio Lower Upper

91 100

92 62.1 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

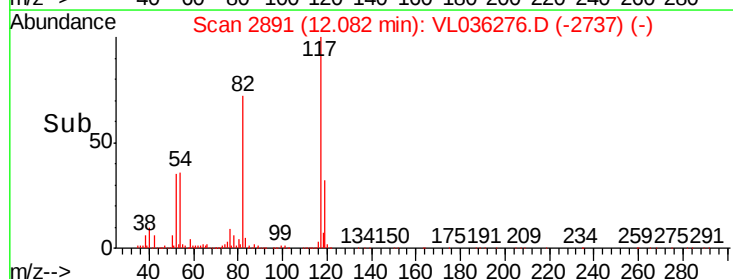
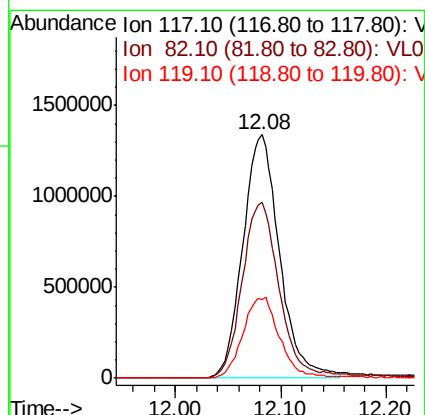
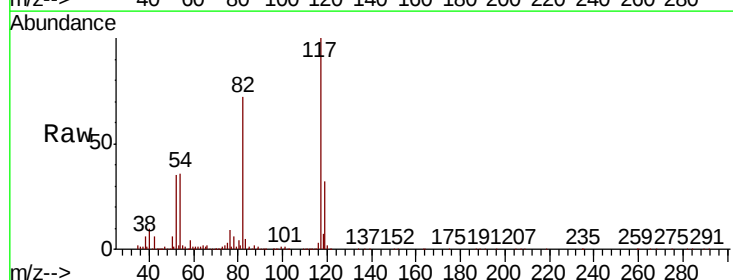
Tgt Ion: 117 Resp: 3241430

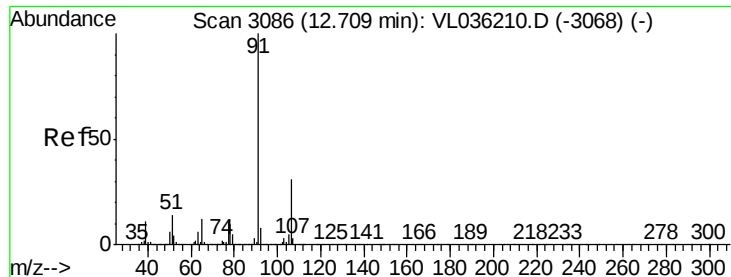
Ion Ratio Lower Upper

117 100

82 74.7 59.7 89.5

119 34.0 28.6 43.0





#58

Ethyl Benzene

Concen: 0.360 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

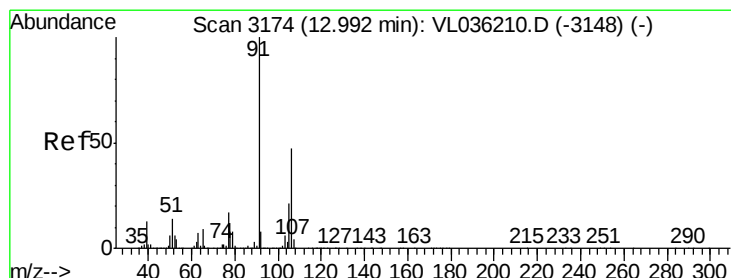
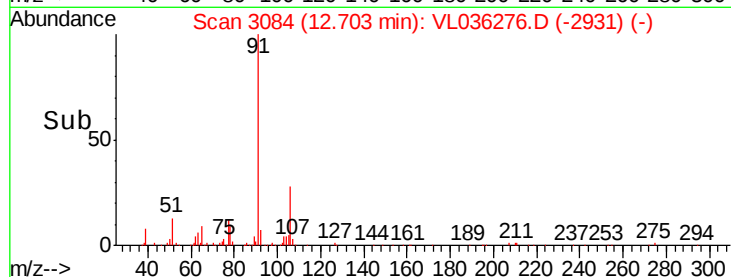
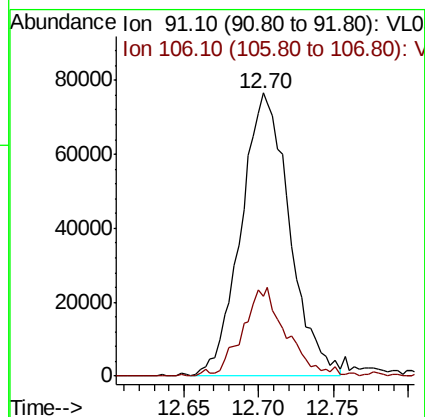
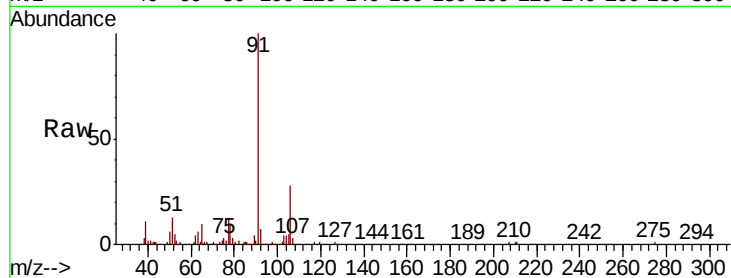
ClientSampled :

Tot Ion: 91 Resp: 173316

Ion Ratio Lower Upper

91 100

106 28.2 24.8 37.2



#59

m/p-Xylene

Concen: 0.489 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL036276.D

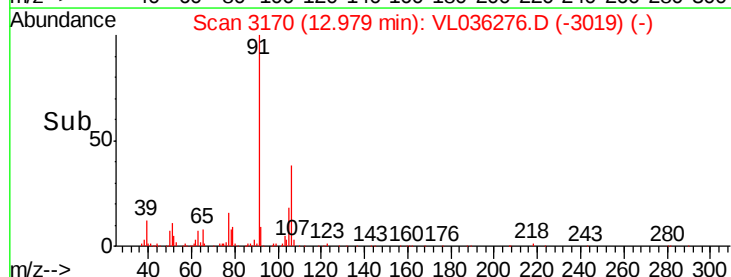
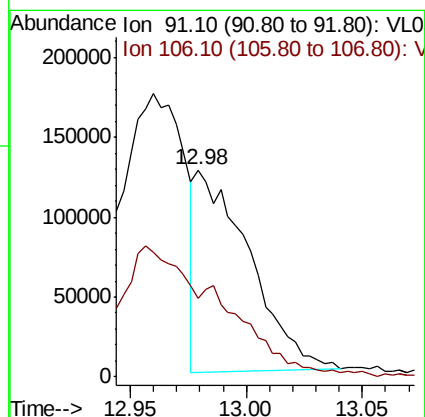
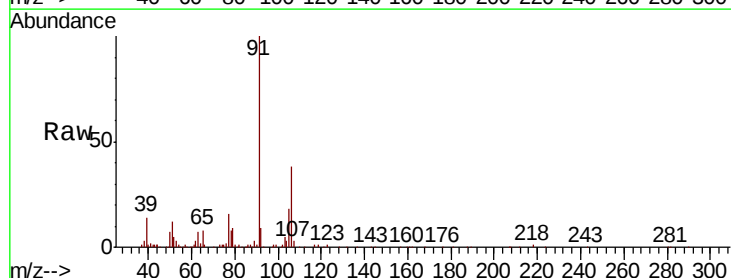
Acq: 28 Jan 2021 18:00

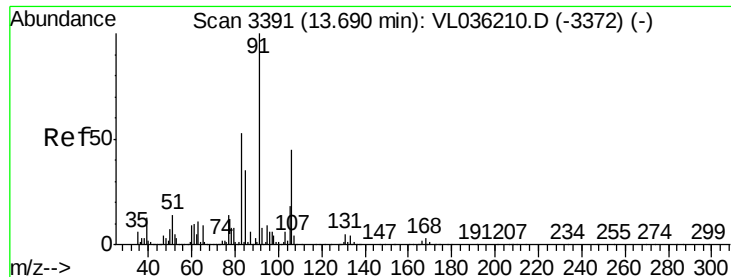
Tgt Ion: 91 Resp: 202312

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#

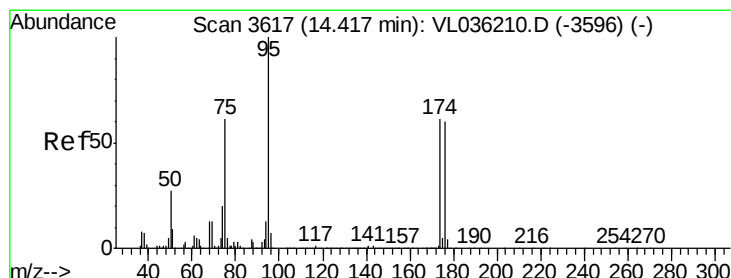
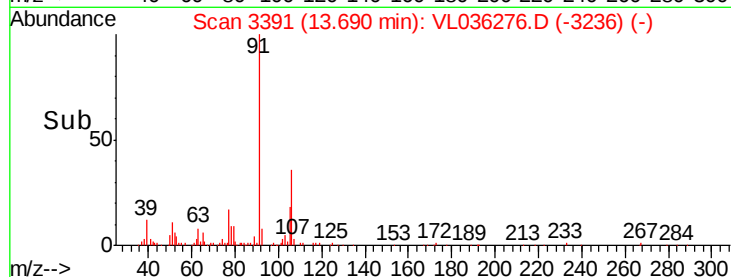
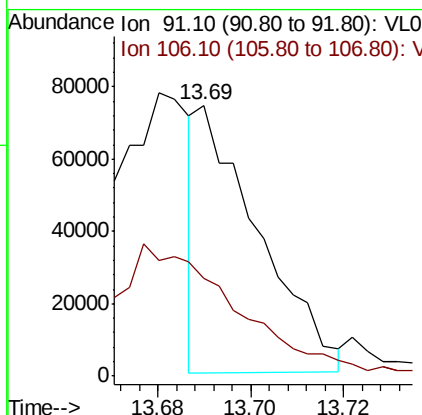
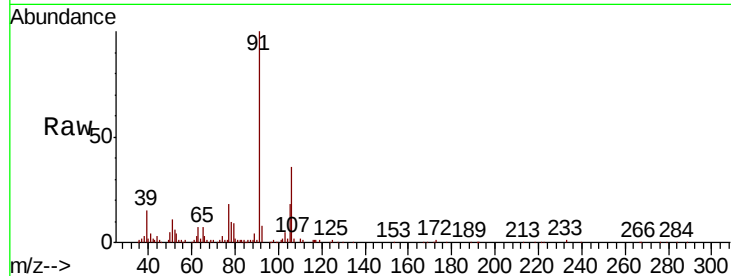




#60
o-Xylene
Concen: 0.169 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.00 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

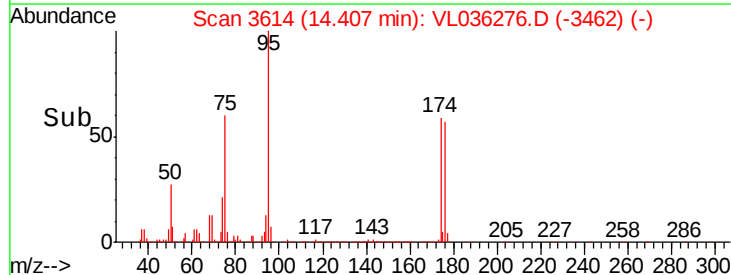
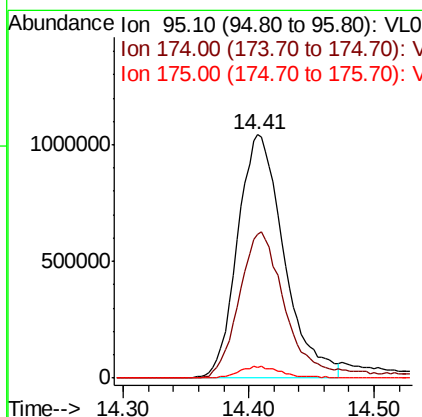
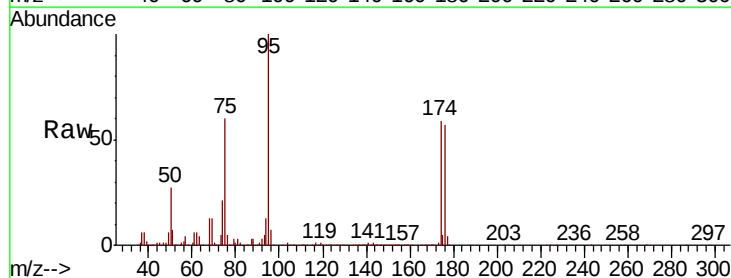
Instrument :
MSVOA_L
ClientSampled :

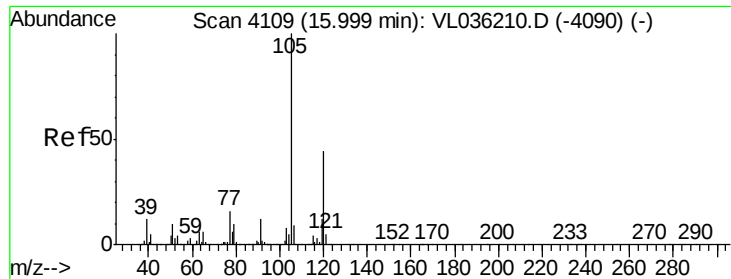
Tot Ion: 91 Resp: 67164
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.993 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion: 95 Resp: 2681224
Ion Ratio Lower Upper
95 100
174 63.7 49.4 74.0
175 4.7 3.8 5.8

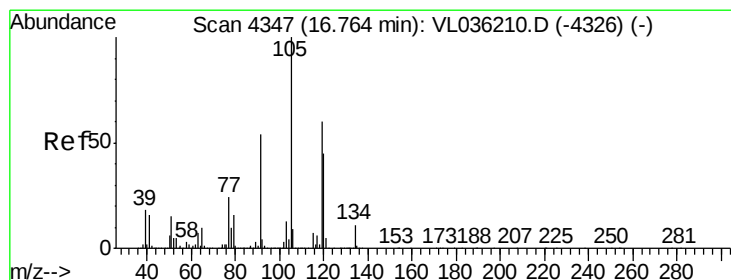
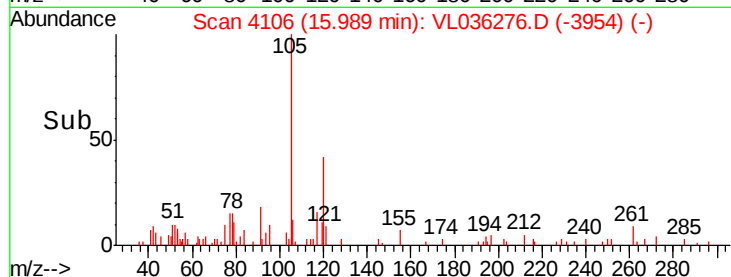
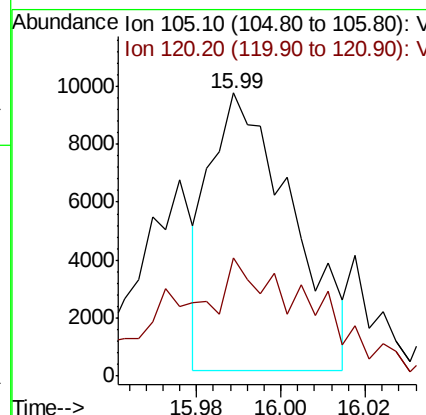
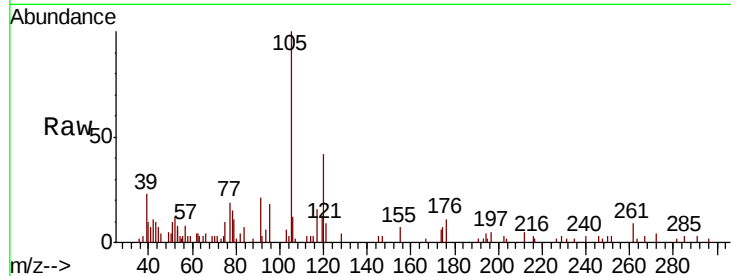




#73
 1,3,5-Trimethylbenzene
 Concen: 0.030 ppbv
 RT: 15.99 min Scan# 4106
 Delta R.T. -0.01 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:105 Resp: 12984
 Ion Ratio Lower Upper
 105 100
 120 42.1 35.5 53.3



#74
 1,2,4-Trimethylbenzene
 Concen: 0.097 ppbv
 RT: 16.76 min Scan# 4345
 Delta R.T. -0.01 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Tgt Ion:105 Resp: 42652
 Ion Ratio Lower Upper
 105 100
 120 38.6 36.2 54.2
 91 11.2 43.3 64.9#
 77 17.5 19.1 28.7#

