

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020321\
 Data File : VL036308.D
 Acq On : 4 Feb 2021 00:34
 Operator : SY/AP
 Sample : M1295-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 01:49:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu 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	5.68	49	1571658	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3291725	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	2986486	10.00	ppbv	0.03

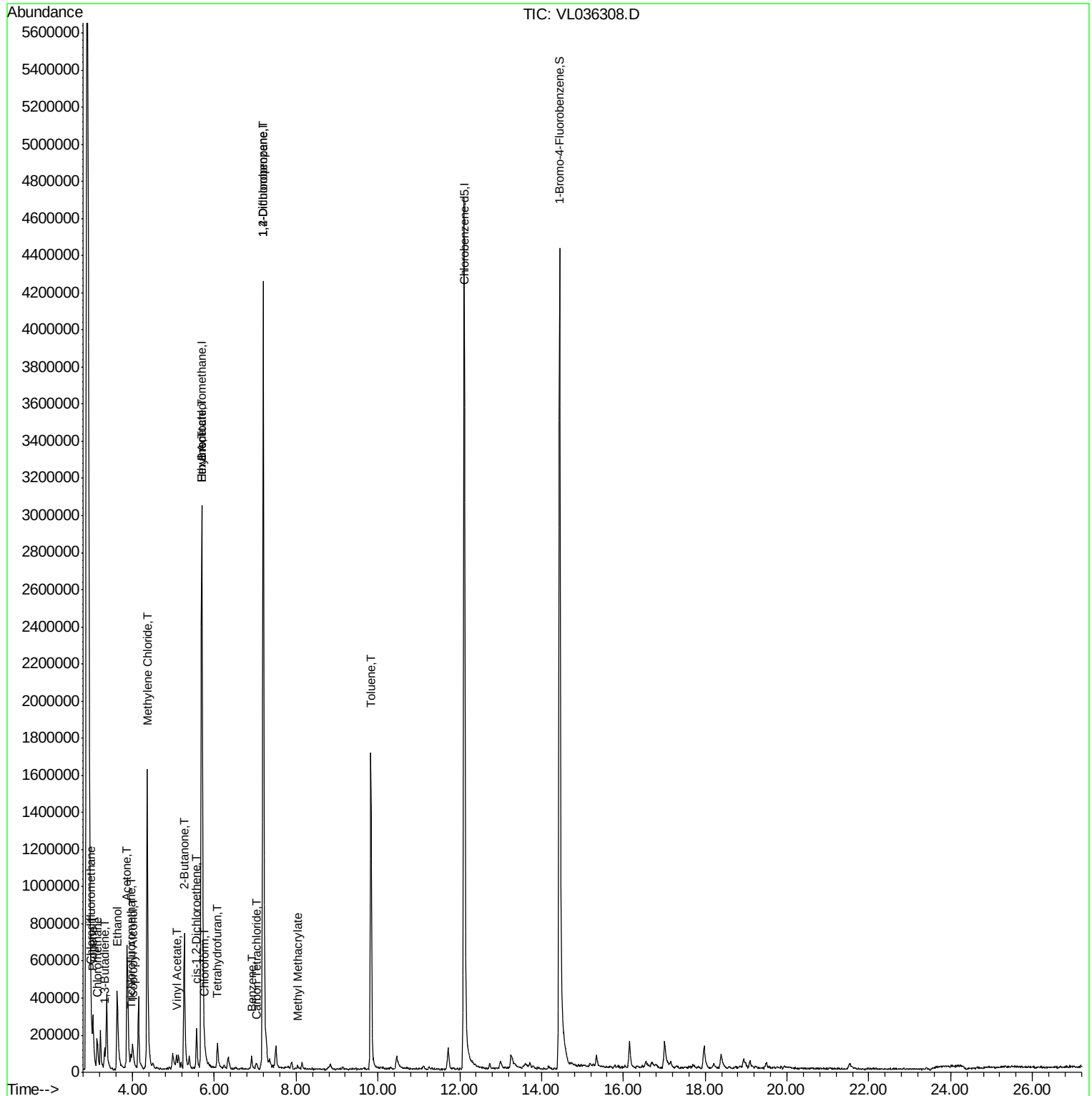
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2463927	9.97	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

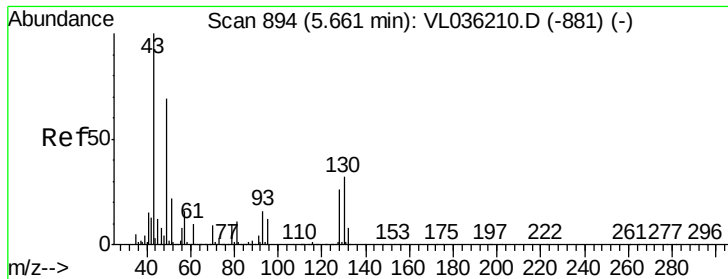
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	89472	0.464	ppbv #	89
4) Chloromethane	3.15	50	67136	0.704	ppbv	91
9) Propene	3.03	41	56141	0.611	ppbv #	83
11) Trichlorofluoromethane	3.96	101	34795	0.162	ppbv #	82
13) Ethanol	3.63	45	582874	40.385	ppbv	89
15) Acetone	3.86	43	877711	4.560	ppbv	96
16) 1,3-Butadiene	3.31	39	36178	0.386	ppbv #	19
19) Isopropyl Alcohol	4.00	45	65851	0.567	ppbv #	93
20) Methylene Chloride	4.36	84	615696	10.022	ppbv	96
23) Vinyl Acetate	5.08	43	12464	0.053	ppbv #	1
25) Ethyl Acetate	5.70	43	514713	1.332	ppbv #	85
26) Hexane	5.70	57	532775	3.311	ppbv #	44
29) Chloroform	5.77	83	9710	0.042	ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	144061	0.937	ppbv	92
34) 2-Butanone	5.26	43	1007426	4.156	ppbv	99
35) Carbon Tetrachloride	7.03	117	7337	0.035	ppbv #	66
36) Benzene	6.91	78	34688	0.115	ppbv #	88
39) 1,2-Dichloropropane	7.20	63	967737	7.902	ppbv #	22
41) Tetrahydrofuran	6.08	42	32999	0.236	ppbv #	1
43) Methyl Methacrylate	8.04	69	4226	0.033	ppbv #	14
53) Toluene	9.82	91	1362271	4.038	ppbv	100

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Jan 14 16:13:38 2021
QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.02 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :

MSVOA_L

ClientSampleId :

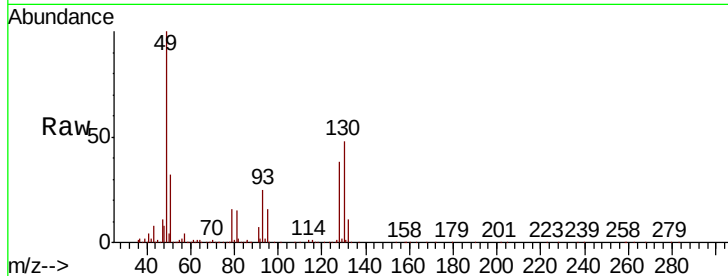
Tot Ion: 49 Resp: 1571658

Ion Ratio Lower Upper

49 100

128 40.5 20.1 60.2

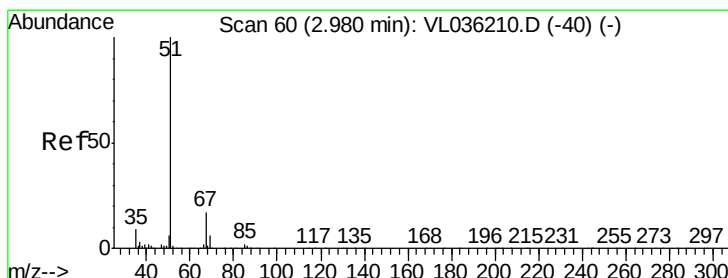
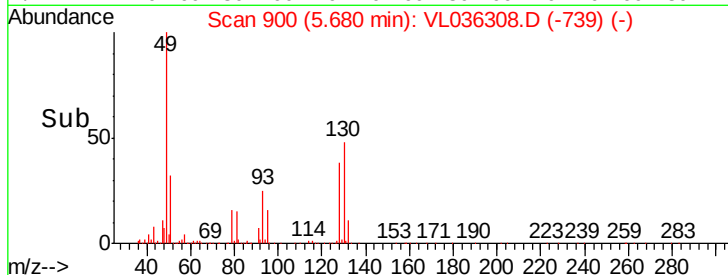
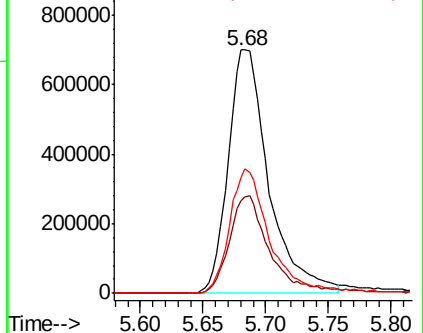
130 51.6 25.3 75.9



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



#3

Chlorodifluoromethane

Concen: 0.464 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL036308.D

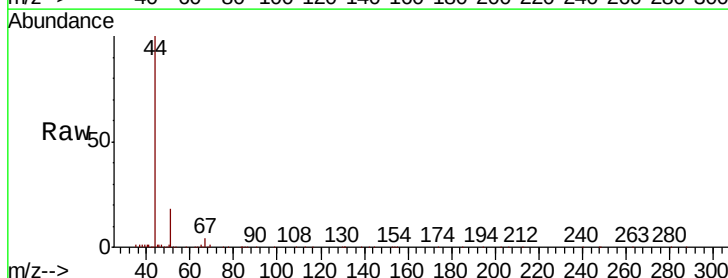
Acq: 4 Feb 2021 00:34

Tgt Ion: 51 Resp: 89472

Ion Ratio Lower Upper

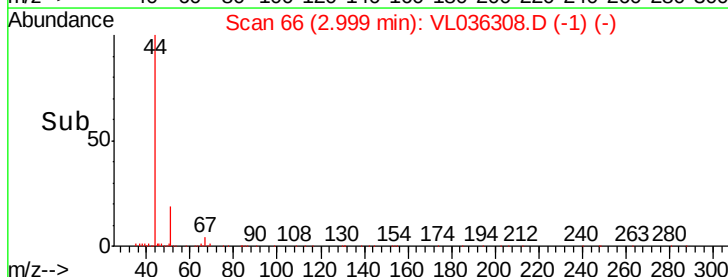
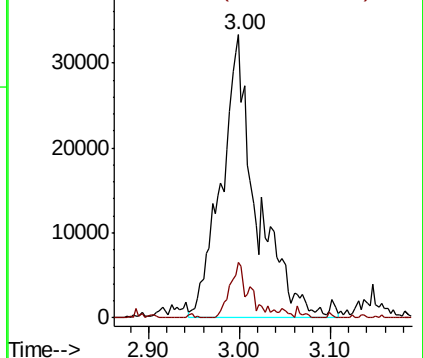
51 100

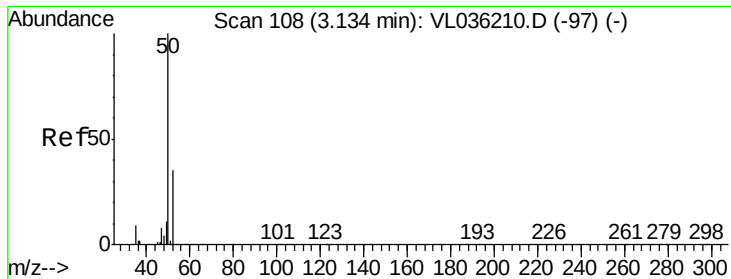
67 12.6 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.704 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.02 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :

MSVOA_L

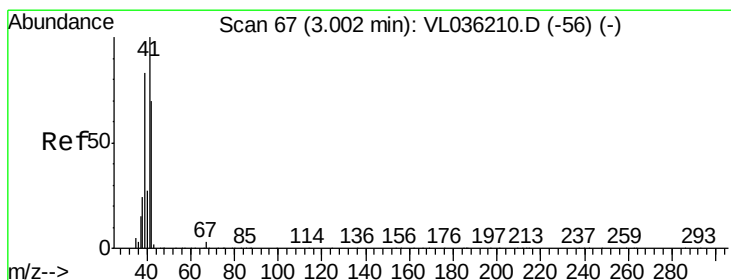
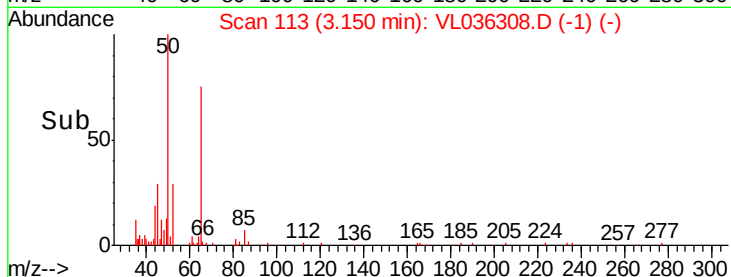
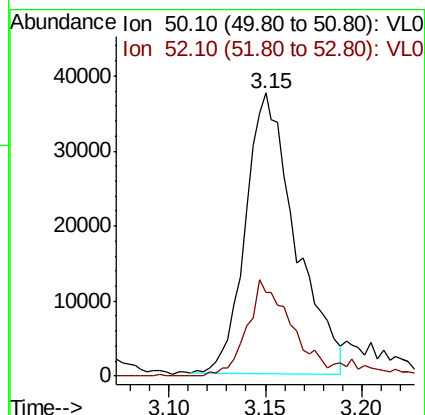
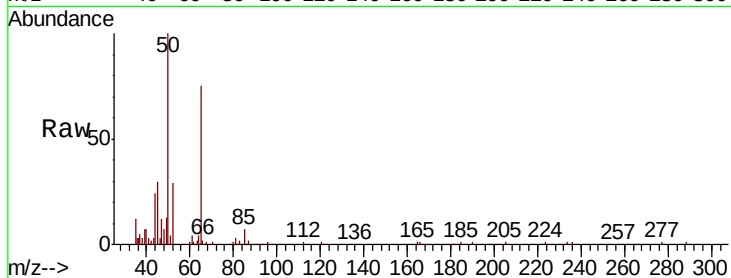
ClientSampleId :

Tot Ion: 50 Resp: 67136

Ion Ratio Lower Upper

50 100

52 29.7 27.8 41.8



#9

Propene

Concen: 0.611 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.03 min

Lab File: VL036308.D

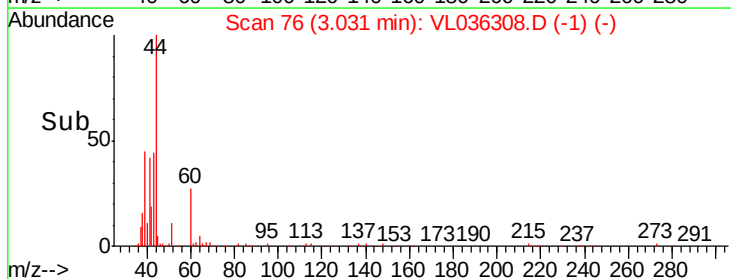
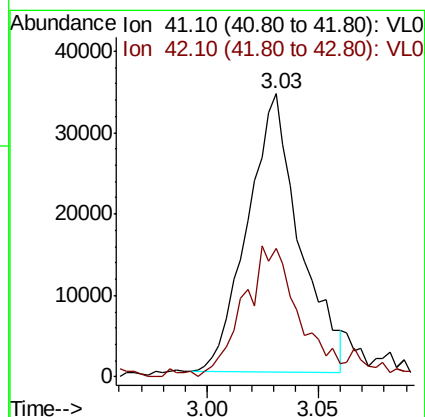
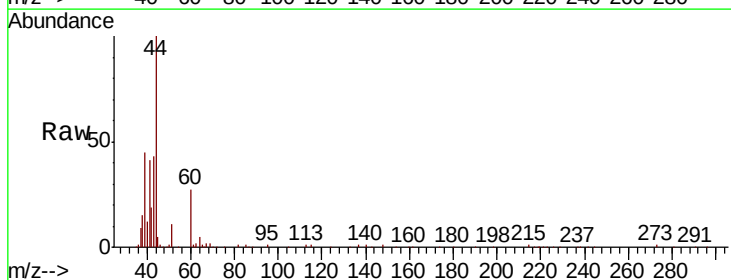
Acq: 4 Feb 2021 00:34

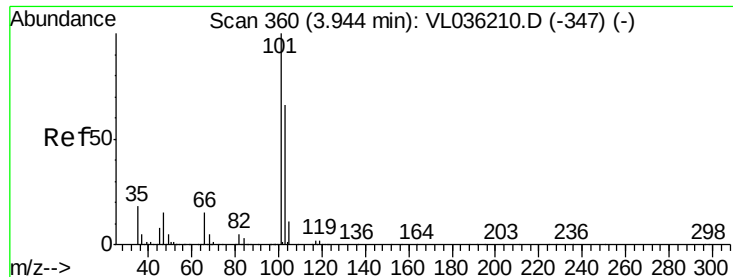
Tgt Ion: 41 Resp: 56141

Ion Ratio Lower Upper

41 100

42 57.0 57.1 85.7#





#11

Trichlorofluoromethane

Concen: 0.162 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.02 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

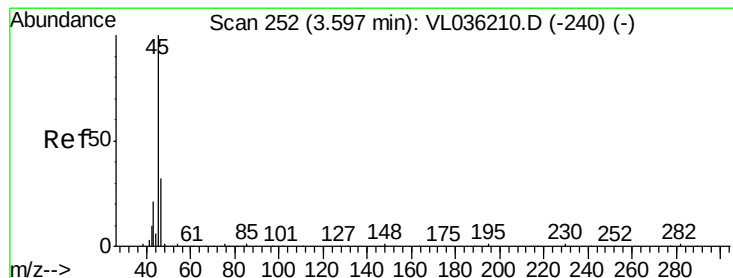
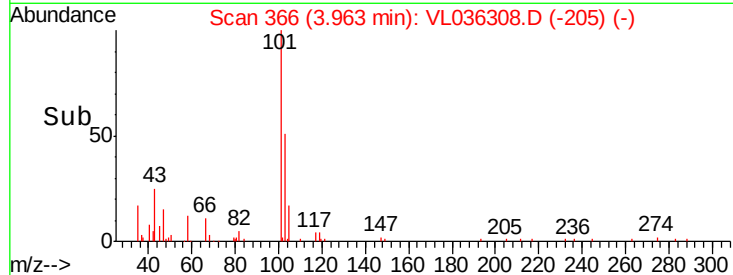
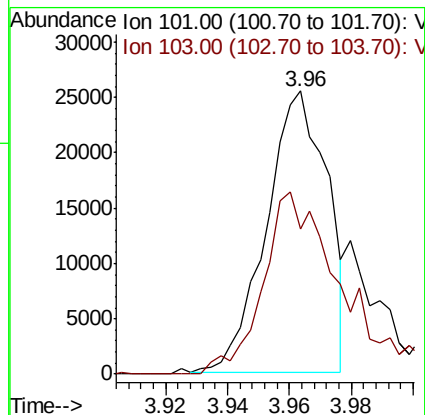
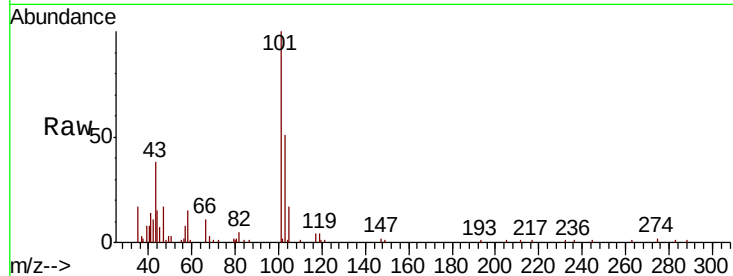
Instrument :
MSVOA_L
ClientSampled :

Tot Ion:101 Resp: 34795

Ion Ratio Lower Upper

101 100

103 51.5 52.6 78.8#



#13

Ethanol

Concen: 40.385 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.03 min

Lab File: VL036308.D

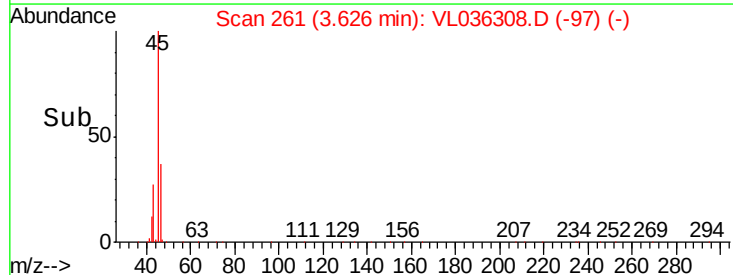
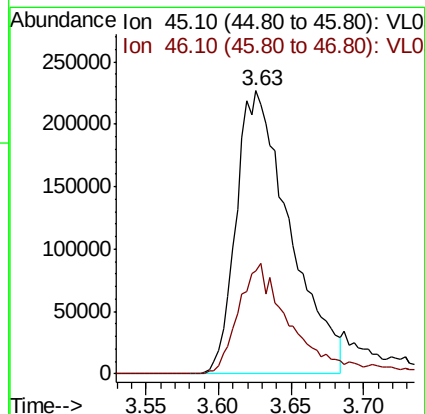
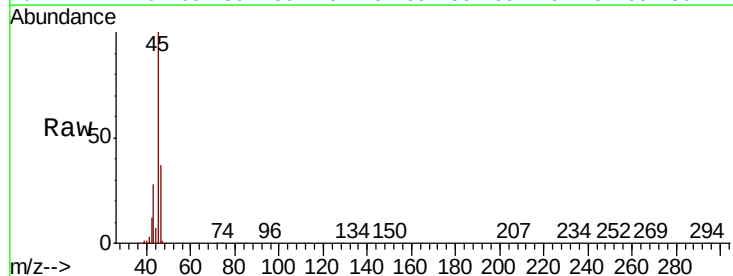
Acq: 4 Feb 2021 00:34

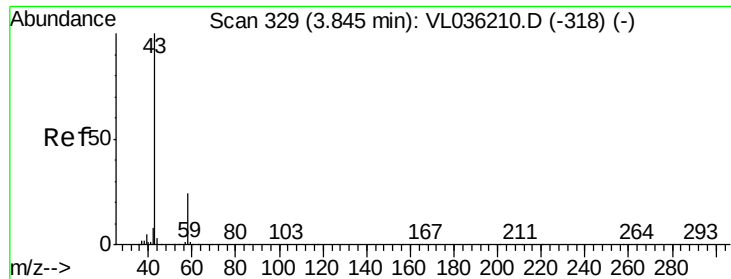
Tgt Ion: 45 Resp: 582874

Ion Ratio Lower Upper

45 100

46 40.5 19.2 77.0





#15

Acetone

Concen: 4.560 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.02 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :

MSVOA_L

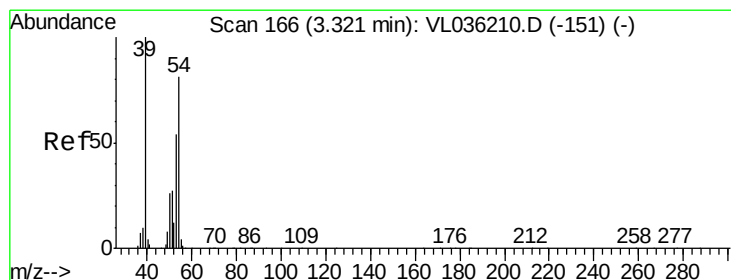
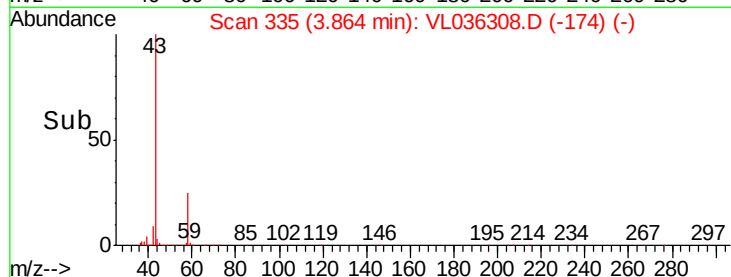
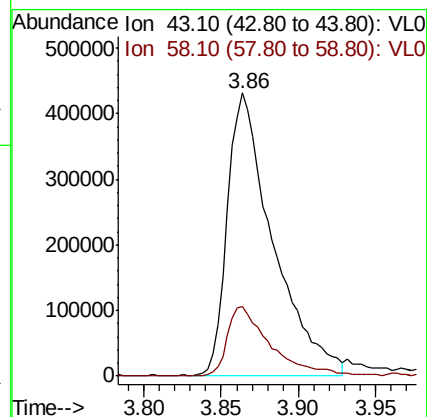
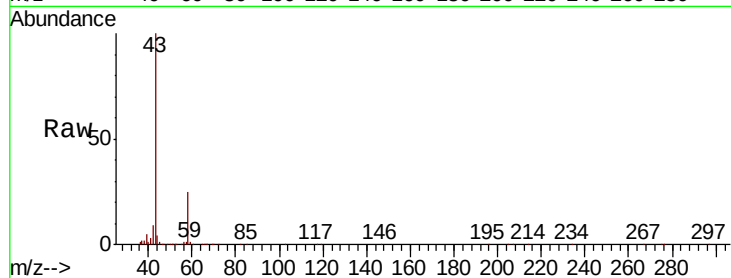
ClientSampleId :

Tot Ion: 43 Resp: 877711

Ion Ratio Lower Upper

43 100

58 23.9 20.9 31.3



#16

1,3-Butadiene

Concen: 0.386 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL036308.D

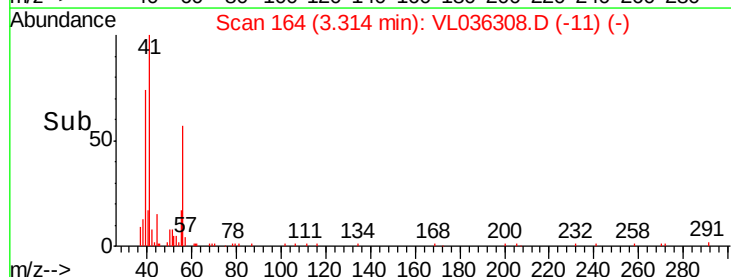
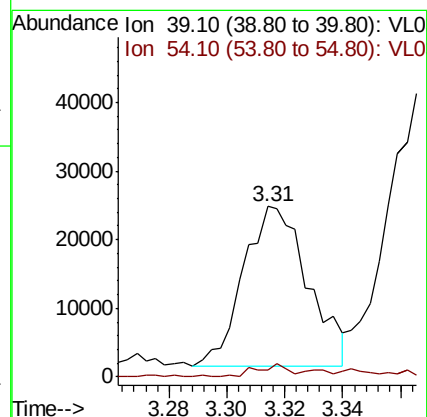
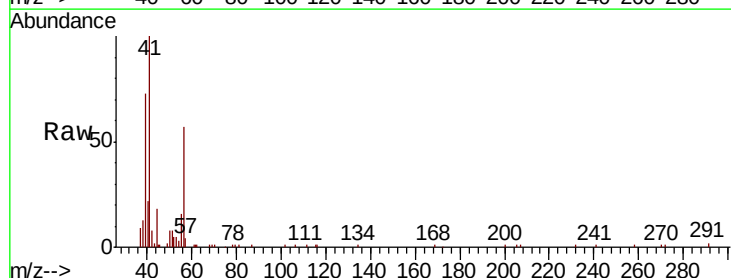
Acq: 4 Feb 2021 00:34

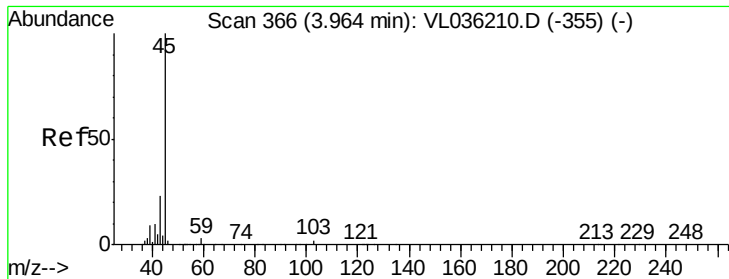
Tgt Ion: 39 Resp: 36178

Ion Ratio Lower Upper

39 100

54 7.9 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 0.567 ppbv

RT: 4.00 min Scan# 377

Delta R.T. 0.04 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :

MSVOA_L

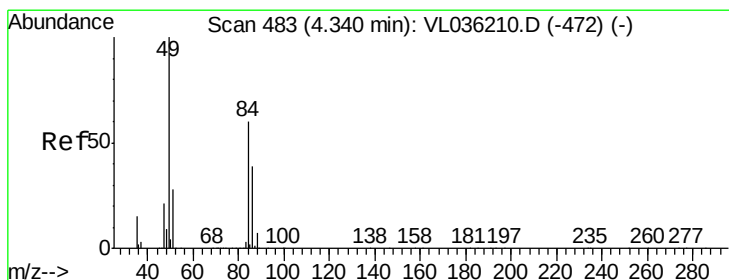
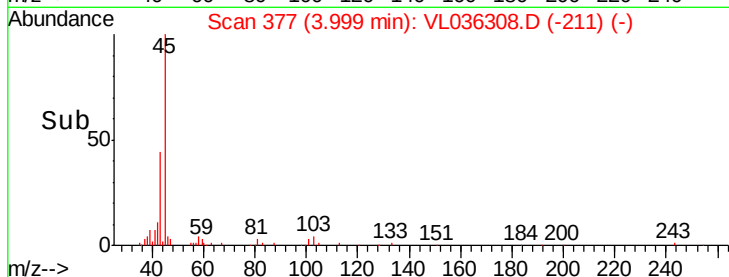
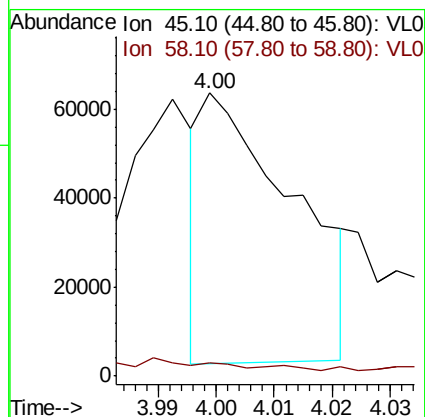
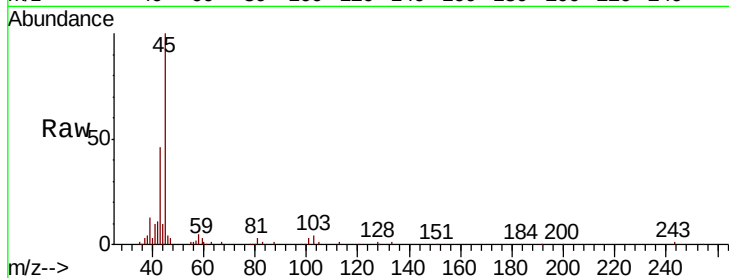
ClientSampleId :

Tot Ion: 45 Resp: 65851

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 10.022 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Tgt Ion: 84 Resp: 615696

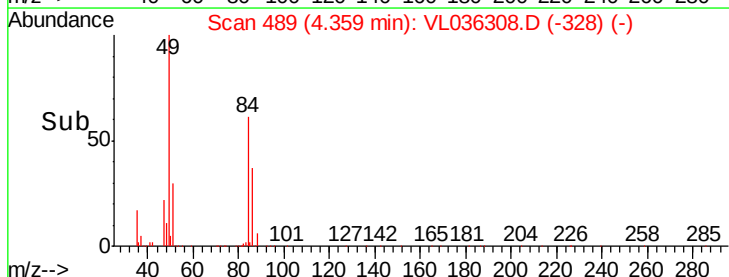
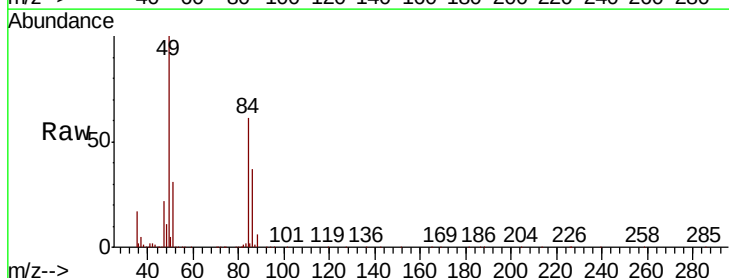
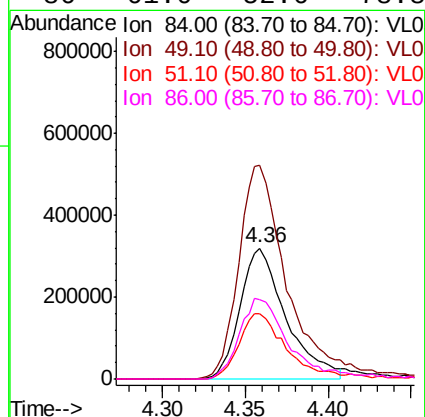
Ion Ratio Lower Upper

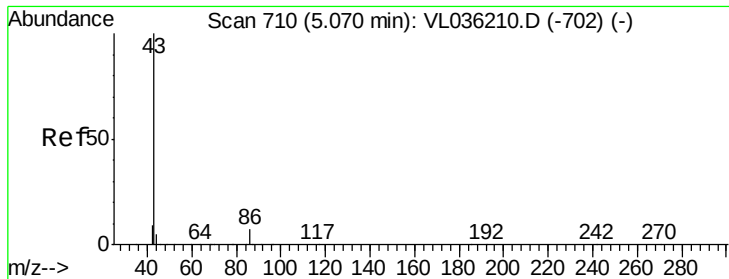
84 100

49 163.2 134.1 201.1

51 49.8 37.4 56.0

86 61.0 52.6 78.8





#23

Vinyl Acetate

Concen: 0.053 ppbv

RT: 5.08 min Scan# 712

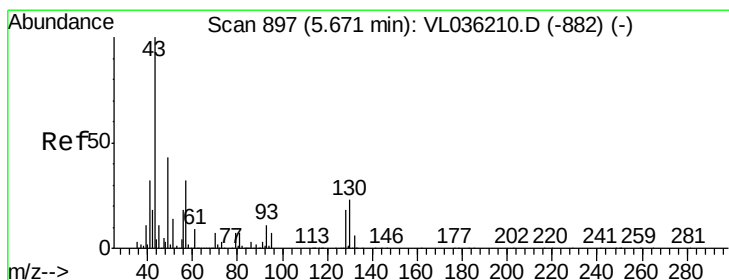
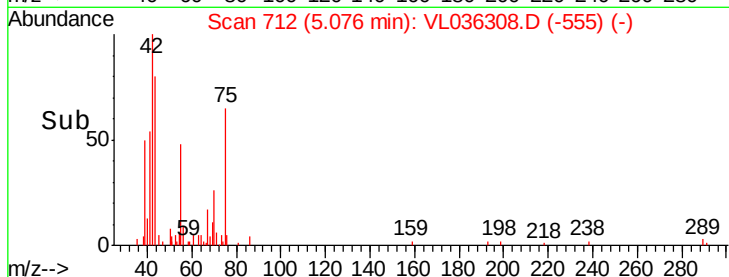
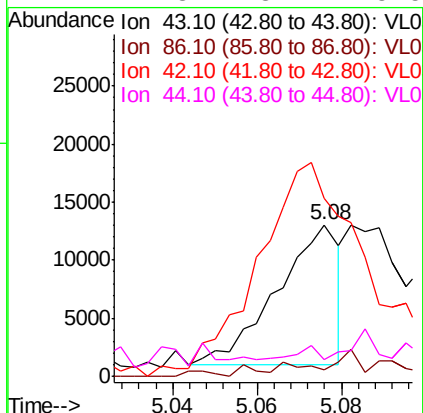
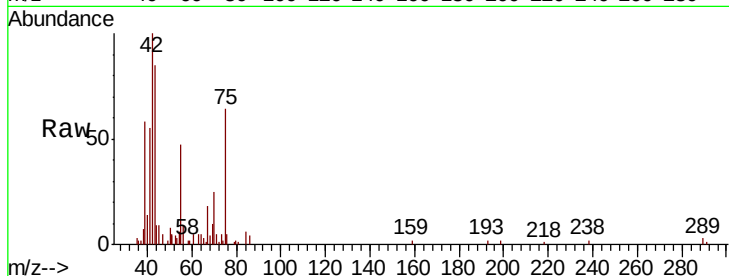
Delta R.T. 0.01 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	12464
Ion	Ratio	Lower	Upper
43	100		
86	1.3	4.9	7.3#
42	120.6	7.8	11.6#
44	4.3	3.7	5.5



#25

Ethyl Acetate

Concen: 1.332 ppbv

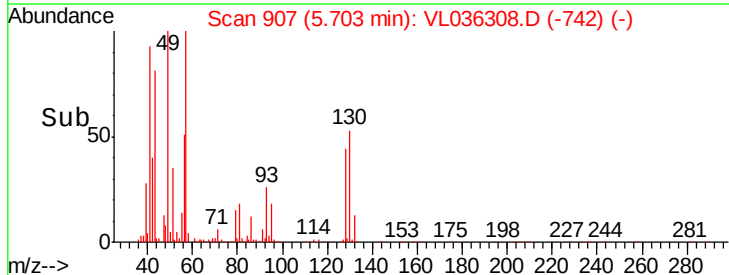
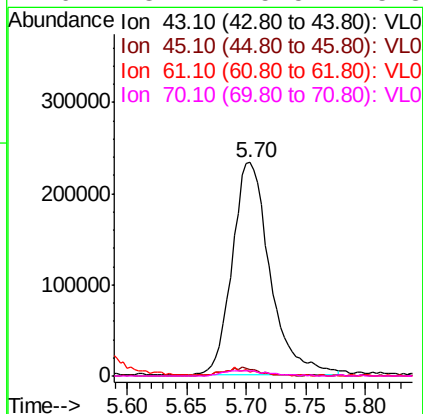
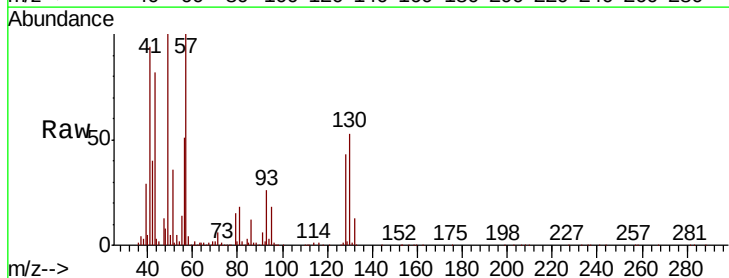
RT: 5.70 min Scan# 907

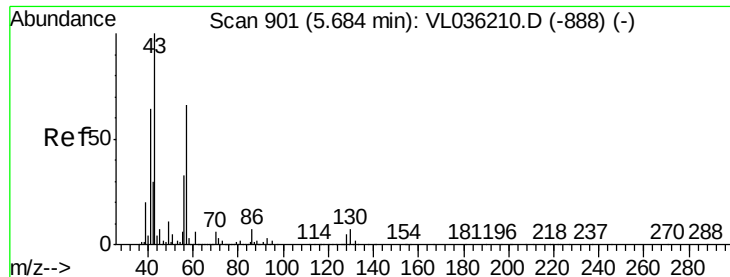
Delta R.T. 0.03 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Tgt Ion:	43	Resp:	514713
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.3	12.5#
61	3.4	7.4	11.2#
70	3.2	5.5	8.3#

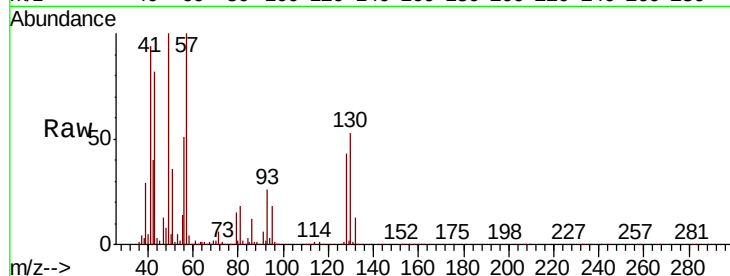




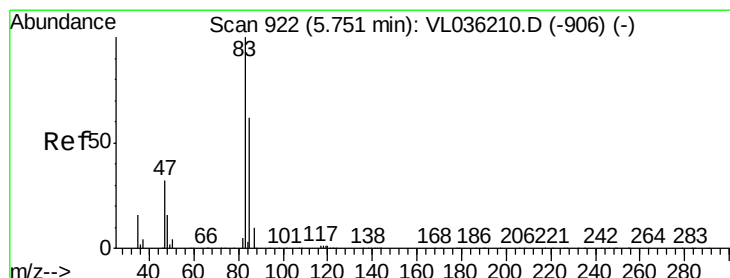
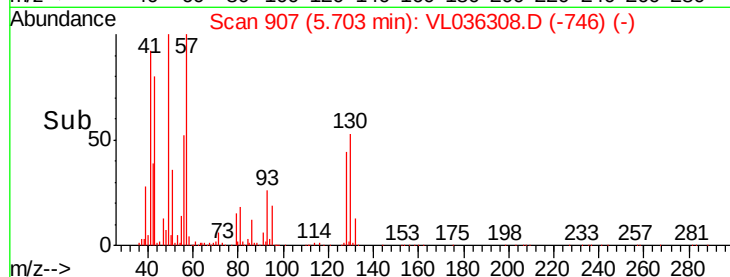
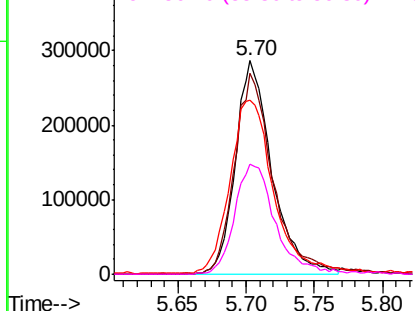
#26
Hexane
Concen: 3.311 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 532775
Ion Ratio Lower Upper
57 100
41 101.9 83.0 124.6
43 98.1 202.4 303.6#
56 58.6 43.4 65.0

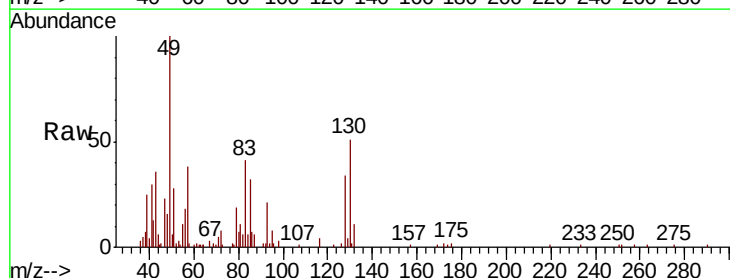


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

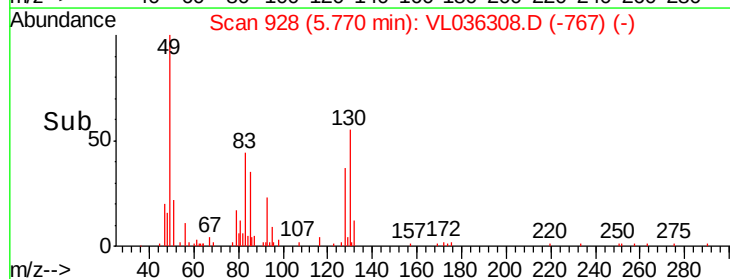
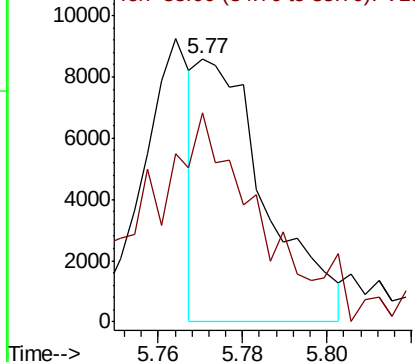


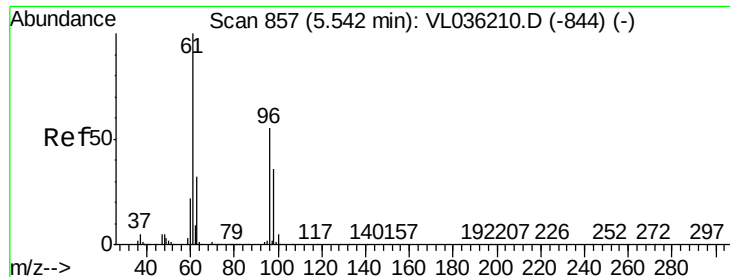
#29
Chloroform
Concen: 0.042 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.02 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 83 Resp: 9710
Ion Ratio Lower Upper
83 100
85 62.6 49.3 73.9



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



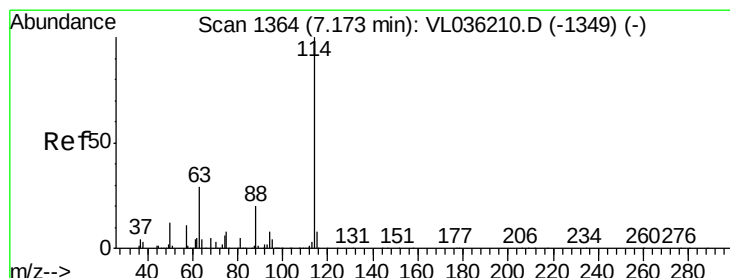
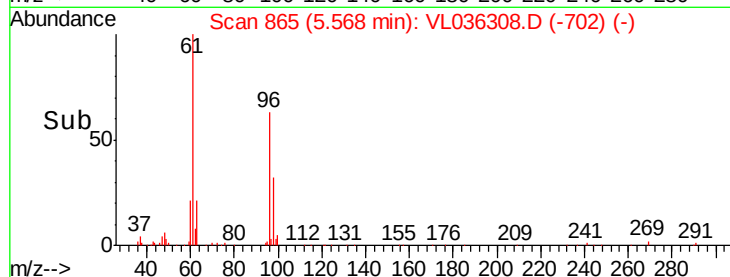
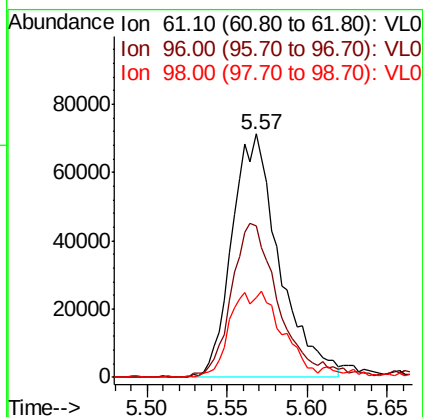
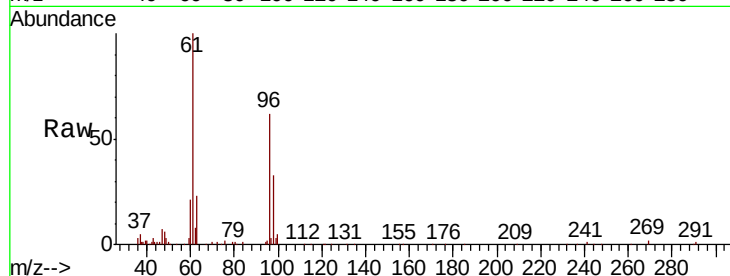


#31

cis-1,2-Dichloroethene
 Concen: 0.937 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. 0.03 min
 Lab File: VL036308.D
 Acq: 4 Feb 2021 00:34

Instrument :
 MSVOA_L
 ClientSampleId :

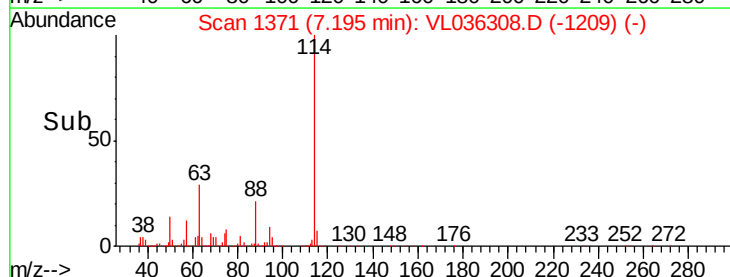
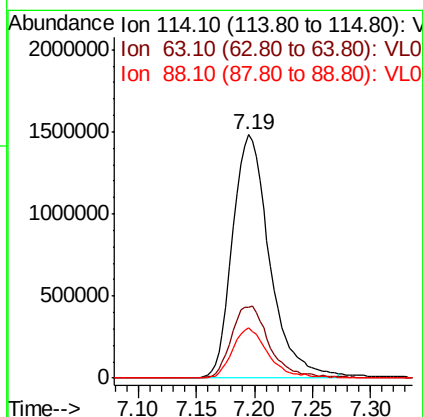
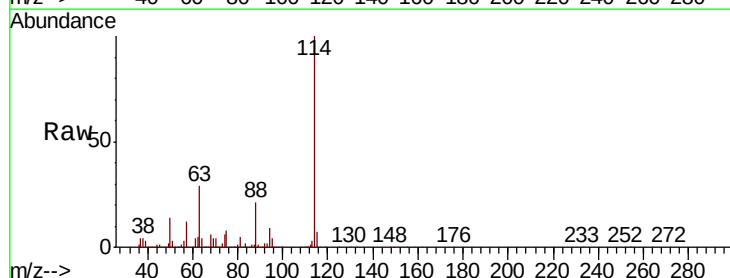
Tot Ion	61	Resp	144061
Ion Ratio	Lower	Upper	
61	100		
96	62.2	44.1	66.1
98	32.0	28.6	42.8

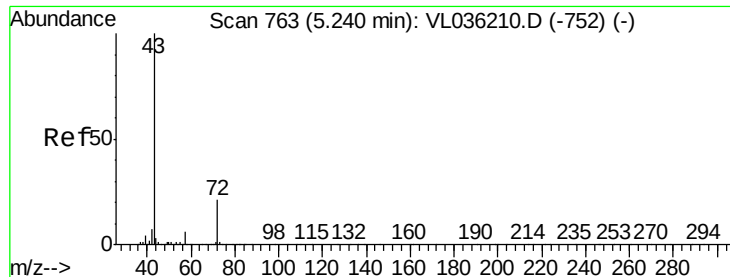


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. 0.02 min
 Lab File: VL036308.D
 Acq: 4 Feb 2021 00:34

Tgt Ion	114	Resp	3291725
Ion Ratio	Lower	Upper	
114	100		
63	30.7	24.7	37.1
88	20.1	16.6	24.8

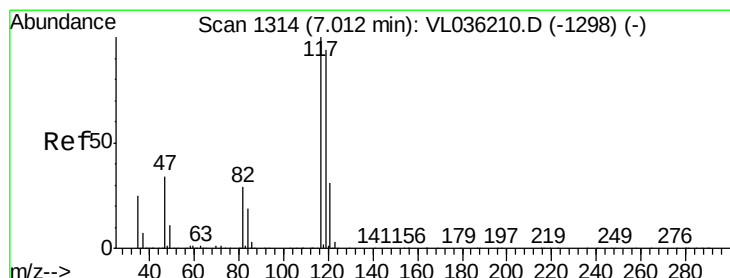
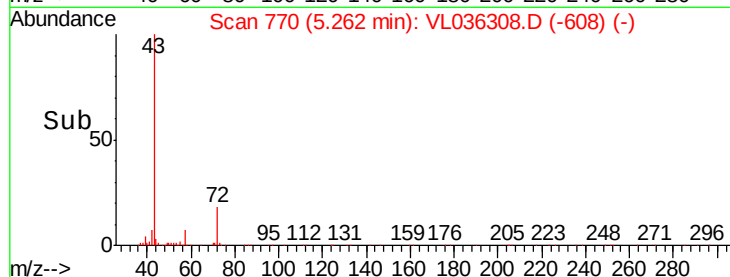
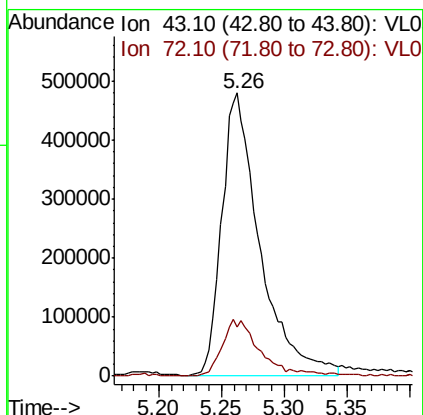
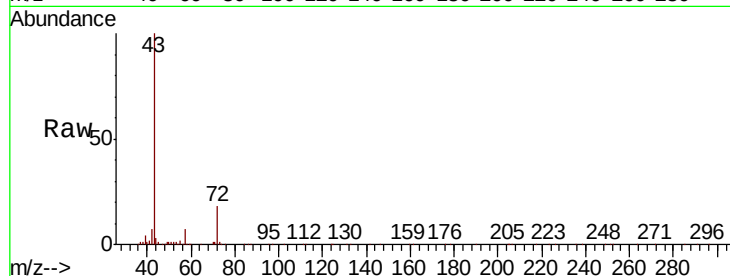




#34
2-Butanone
Concen: 4.156 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.02 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

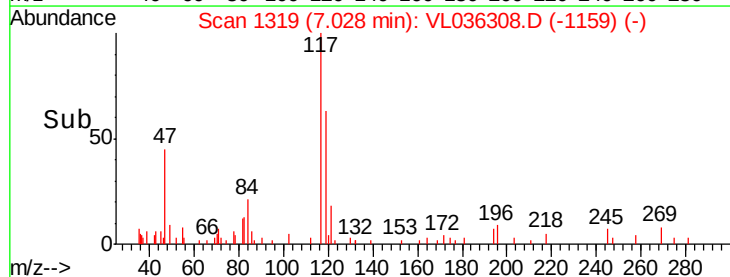
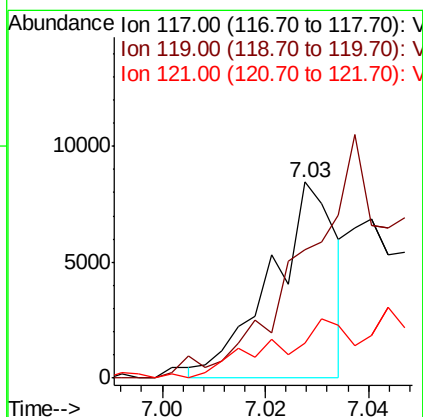
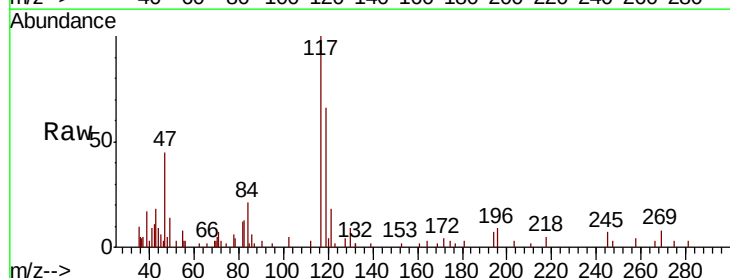
Instrument :
MSVOA_L
ClientSampleId :

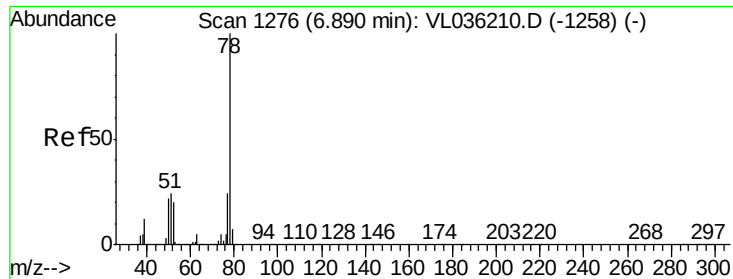
Tot Ion: 43 Resp: 1007426
Ion Ratio Lower Upper
43 100
72 20.4 16.1 24.1



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. 0.02 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 117 Resp: 7337
Ion Ratio Lower Upper
117 100
119 57.1 74.9 112.3#
121 18.6 25.0 37.6#

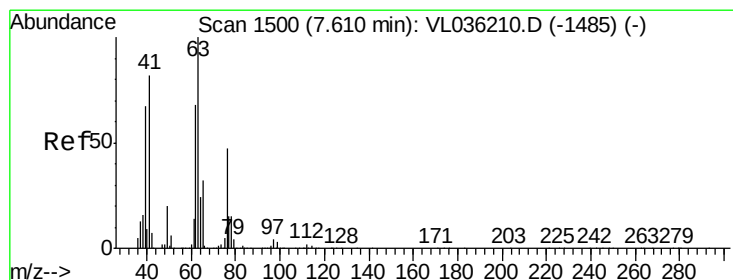
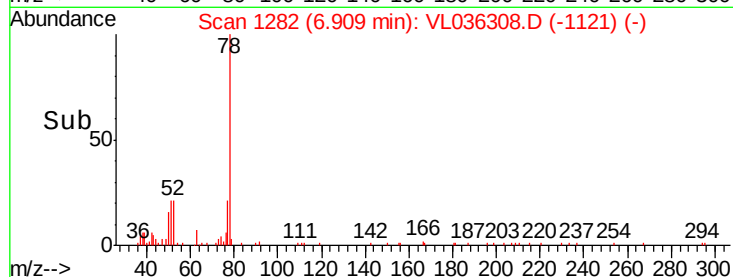
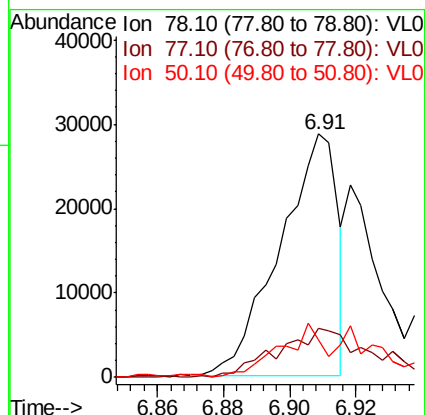
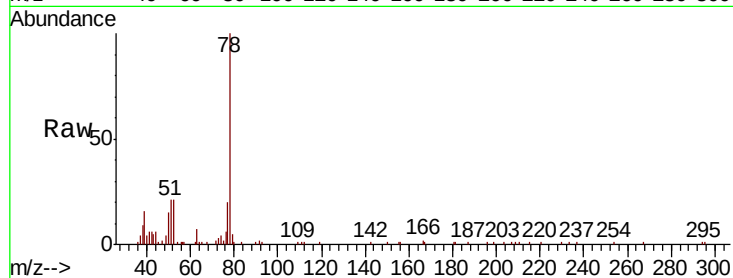




#36
Benzene
Concen: 0.115 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.02 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

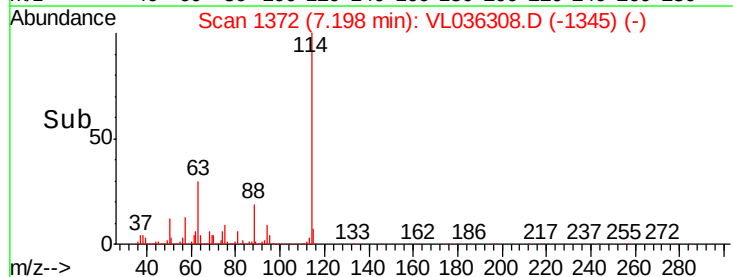
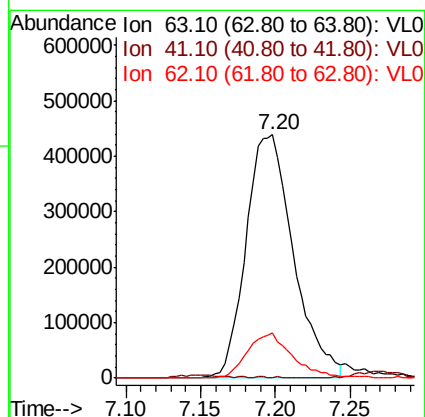
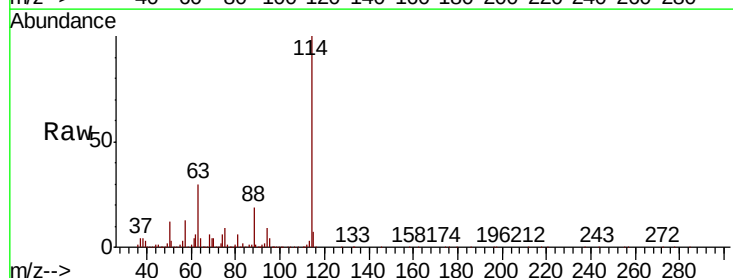
Instrument :
MSVOA_L
ClientSampleId :

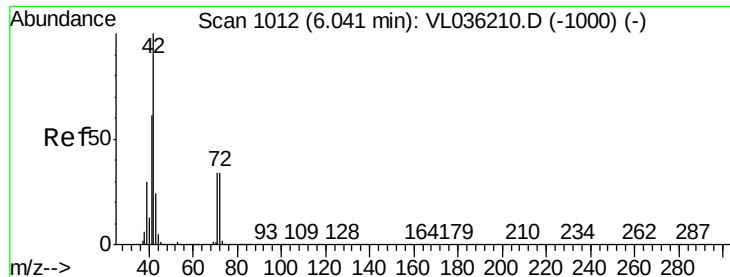
Tot Ion: 78 Resp: 34688
Ion Ratio Lower Upper
78 100
77 20.5 19.4 29.0
50 14.0 17.4 26.2#



#39
1,2-Dichloropropane
Concen: 7.902 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.41 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 63 Resp: 967737
Ion Ratio Lower Upper
63 100
41 0.0 66.1 99.1#
62 18.4 54.8 82.2#





#41

Tetrahydrofuran

Concen: 0.236 ppbv

RT: 6.08 min Scan# 1025

Delta R.T. 0.04 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :

MSVOA_L

ClientSampleId :

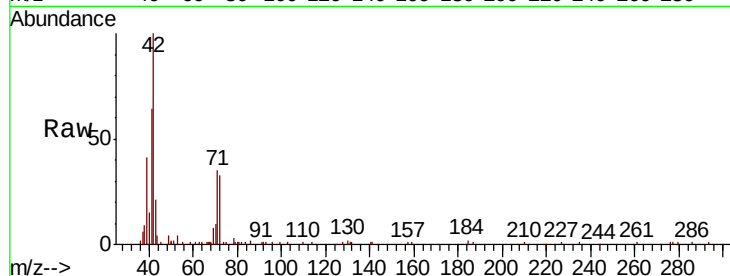
Tot Ion: 42 Resp: 32999

Ion Ratio Lower Upper

42 100

72 95.8 29.5 44.3#

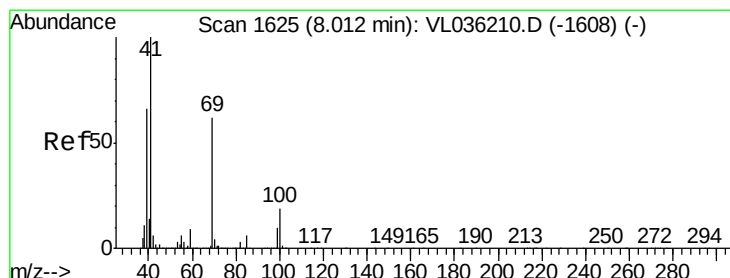
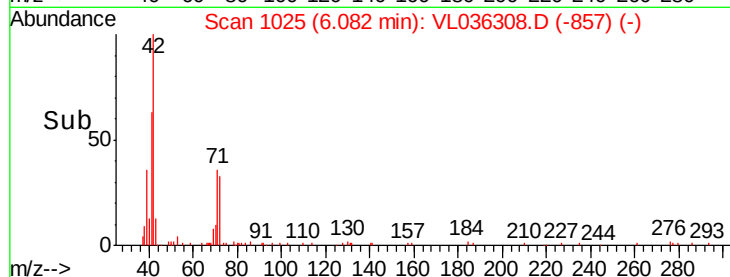
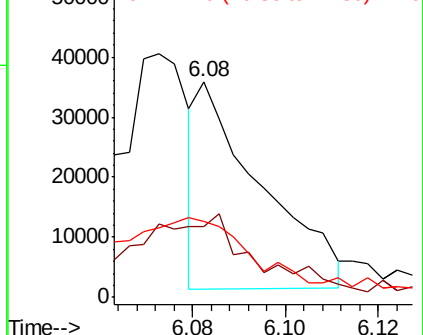
71 97.9 29.1 43.7#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#43

Methyl Methacrylate

Concen: 0.033 ppbv

RT: 8.04 min Scan# 1635

Delta R.T. 0.03 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

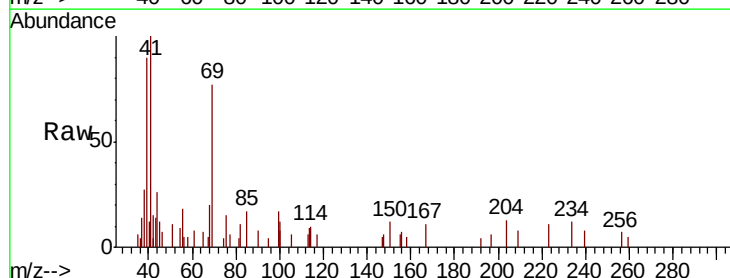
Tgt Ion: 69 Resp: 4226

Ion Ratio Lower Upper

69 100

41 297.2 133.4 200.2#

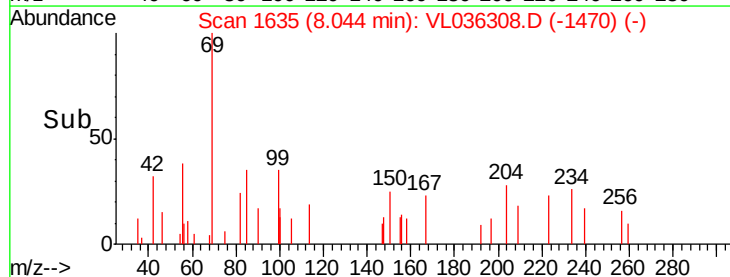
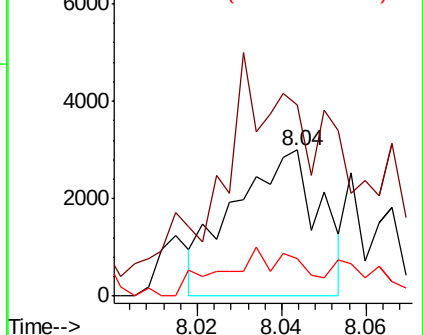
100 44.8 24.3 36.5#

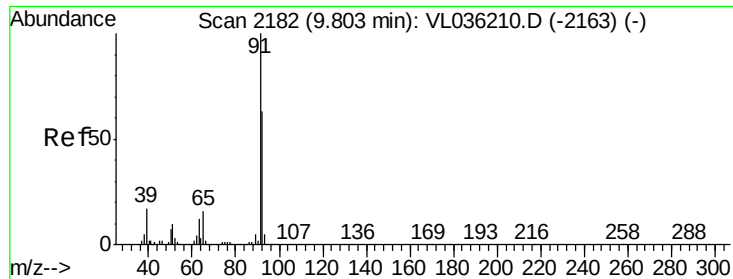


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#53

Toluene

Concen: 4.038 ppbv

RT: 9.82 min Scan# 2189

Delta R.T. 0.02 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :

MSVOA_L

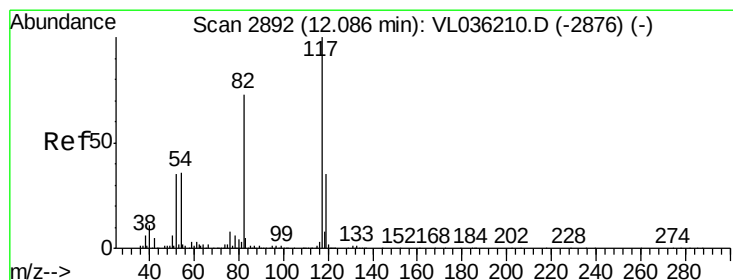
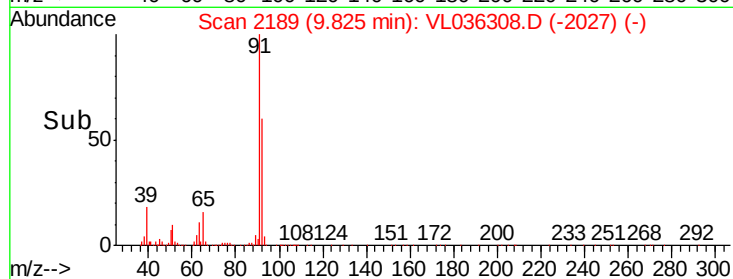
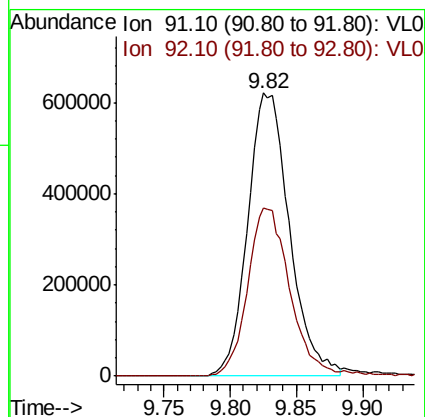
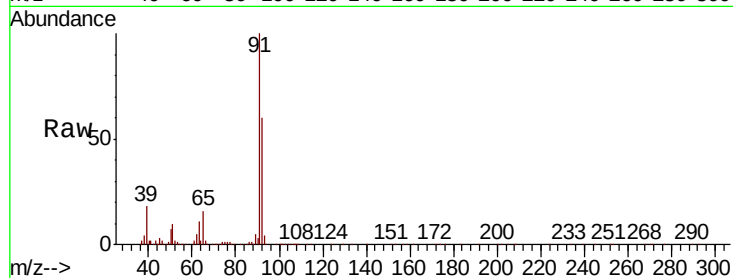
ClientSampleId :

Tot Ion: 91 Resp: 1362271

Ion Ratio Lower Upper

91 100

92 60.9 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.03 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

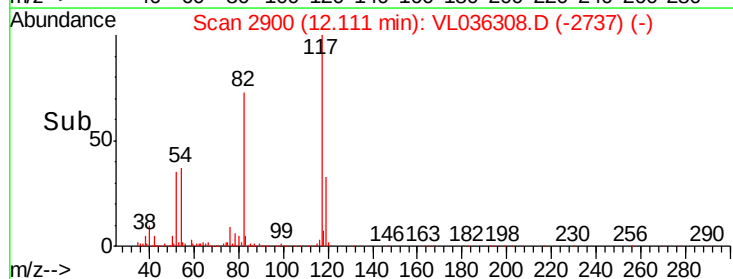
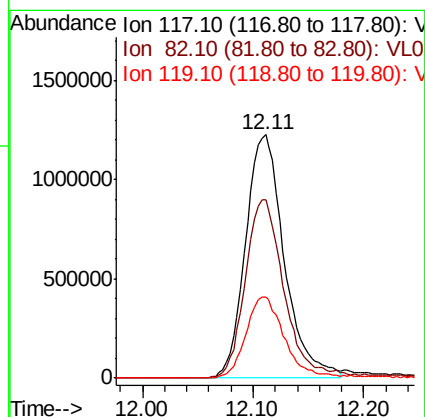
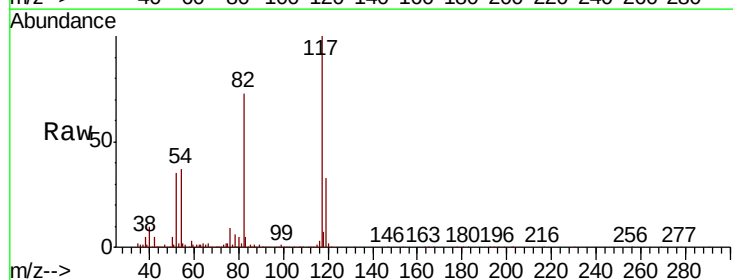
Tgt Ion: 117 Resp: 2986486

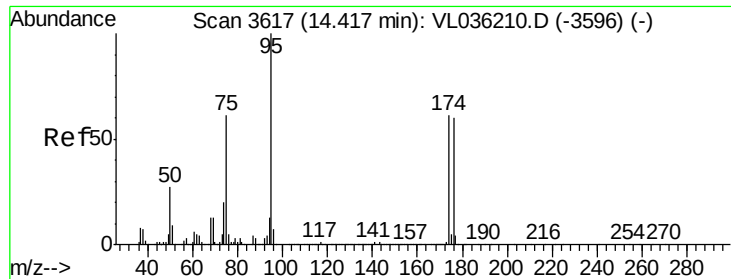
Ion Ratio Lower Upper

117 100

82 76.0 59.7 89.5

119 34.3 28.6 43.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.967 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.03 min

Lab File: VL036308.D

Acq: 4 Feb 2021 00:34

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2463927

Ion Ratio Lower Upper

95 100

174 64.1 49.4 74.0

175 4.6 3.8 5.8

