

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040121\
 Data File : VL036638.D
 Acq On : 1 Apr 2021 21:21
 Operator : SY/AP
 Sample : M1841-05DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 02 01:24:42 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	5.67	49	1244416	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3184049	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2783850	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2075331	9.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

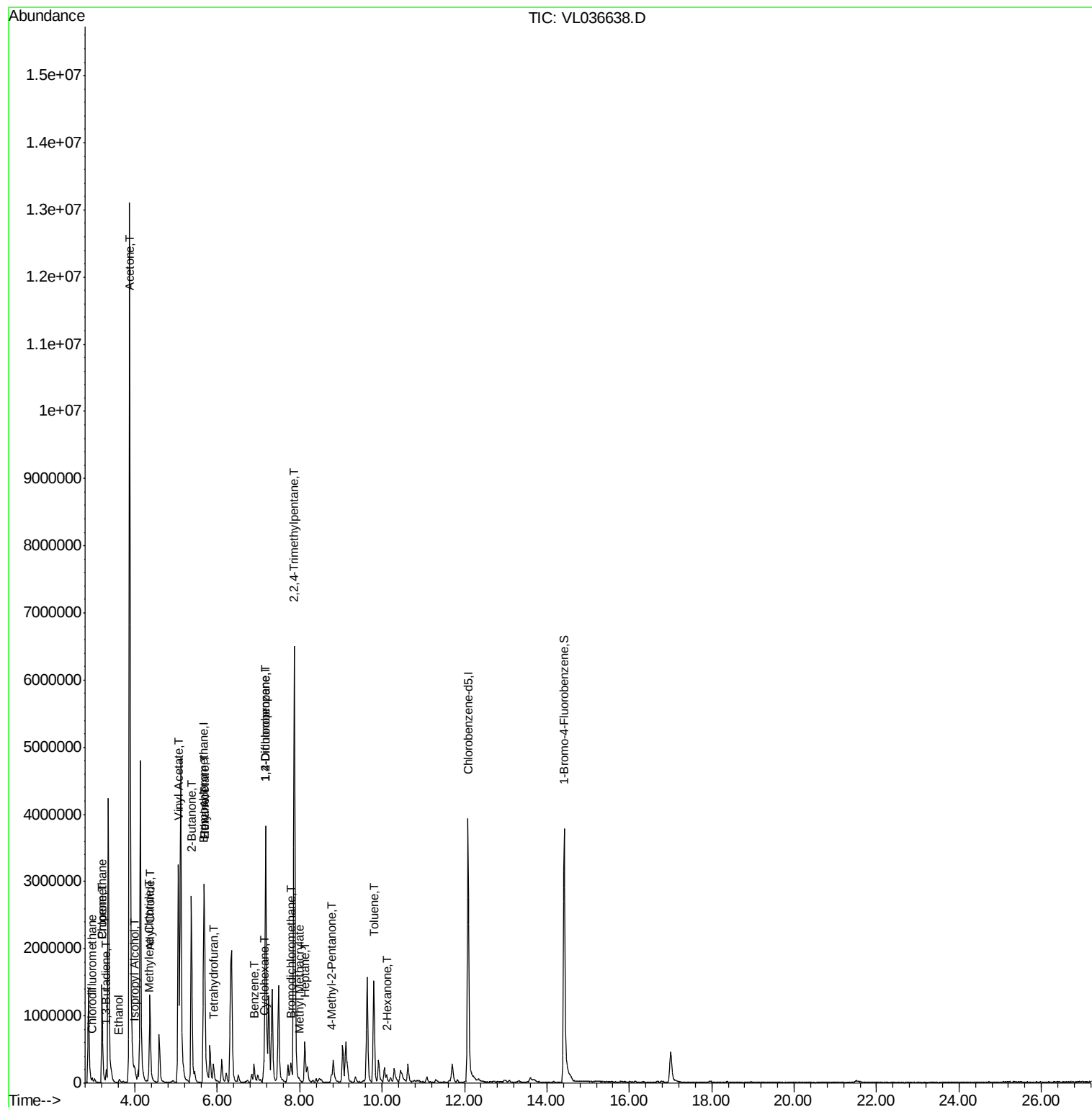
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.96	51	48052	0.207 ppbv	# 59
4) Chloromethane	3.20	50	4116	0.050 ppbv	# 70
9) Propene	3.20	41	543077	7.327 ppbv	95
10) Heptane	8.12	43	275876	1.461 ppbv	# 28
13) Ethanol	3.61	45	20833	2.360 ppbv	# 34
15) Acetone	3.87	43	6284077	51.307 ppbv	# 60
16) 1,3-Butadiene	3.30	39	22886	0.268 ppbv	# 29
19) Isopropyl Alcohol	3.99	45	91090	1.352 ppbv	# 89
20) Methylene Chloride	4.34	84	67522	1.177 ppbv	# 87
21) Allyl Chloride	4.37	41	255265	2.614 ppbv	# 56
23) Vinyl Acetate	5.05	43	1755379	8.379 ppbv	# 1
25) Ethyl Acetate	5.68	43	689238	2.367 ppbv	# 77
26) Hexane	5.69	57	953427	7.056 ppbv	# 47
30) Cyclohexane	7.13	84	107394	0.980 ppbv	89
34) 2-Butanone	5.37	43	435721	2.803 ppbv	# 59
36) Benzene	6.89	78	215956	0.735 ppbv	93
39) 1,2-Dichloropropane	7.17	63	833921	7.001 ppbv	# 23
41) Tetrahydrofuran	5.90	42	11023	0.154 ppbv	# 41
42) Bromodichloromethane	7.79	83	19351	0.082 ppbv	# 24
43) Methyl Methacrylate	7.99	69	5077	0.051 ppbv	# 1
44) 2,2,4-Trimethylpentane	7.87	57	7000477	13.545 ppbv	97
50) 4-Methyl-2-Pentanone	8.77	43	5721	0.025 ppbv	# 18
51) 2-Hexanone	10.12	43	18902	0.167 ppbv	# 50
53) Toluene	9.80	91	14523	0.046 ppbv	# 30

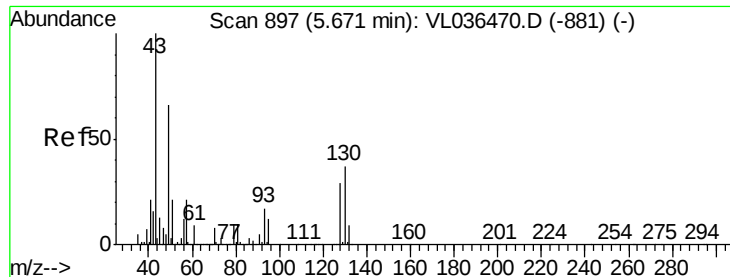
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036638.D

Acq: 1 Apr 2021 21:21

Instrument :

MSVOA_L

ClientSampleId :

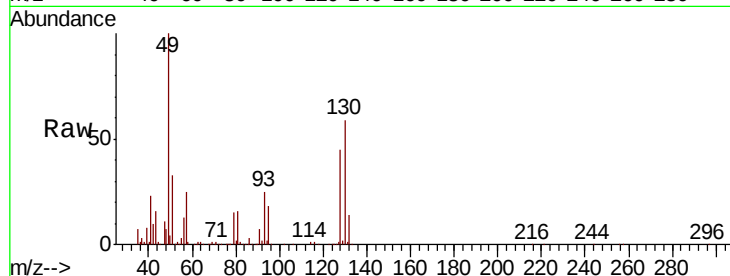
Tot Ion: 49 Resp: 1244416

Ion Ratio Lower Upper

49 100

128 47.1 23.5 70.6

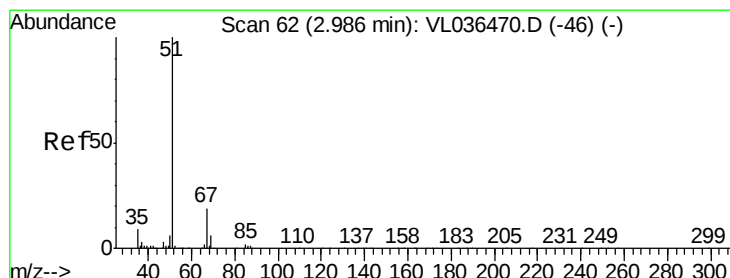
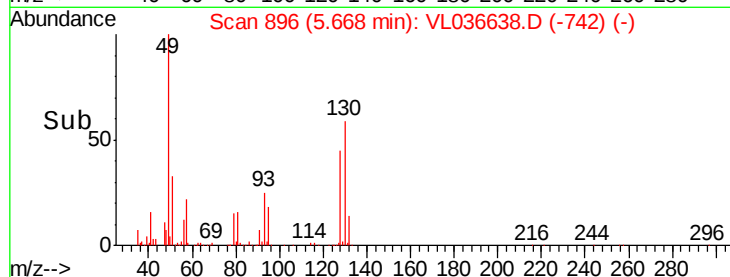
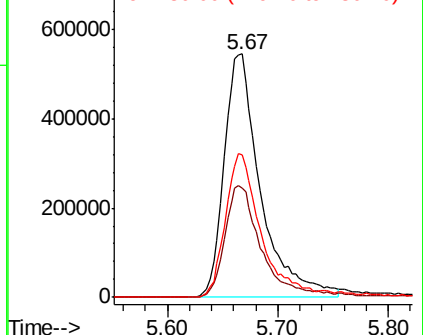
130 61.0 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.207 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036638.D

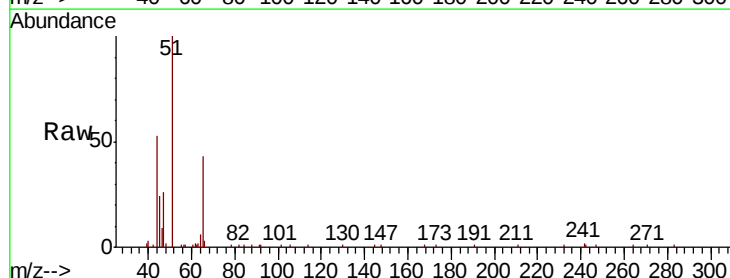
Acq: 1 Apr 2021 21:21

Tgt Ion: 51 Resp: 48052

Ion Ratio Lower Upper

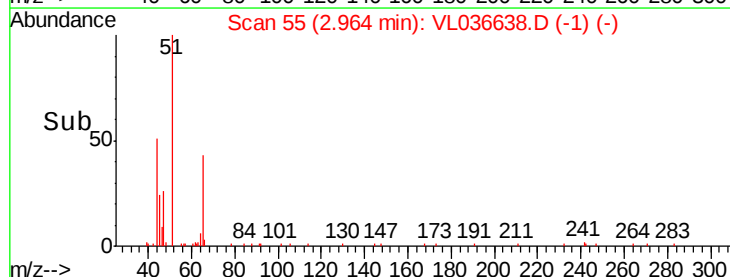
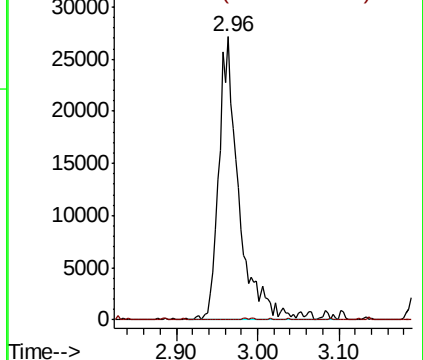
51 100

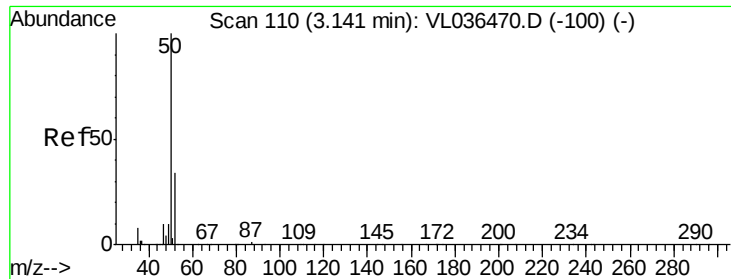
67 0.3 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

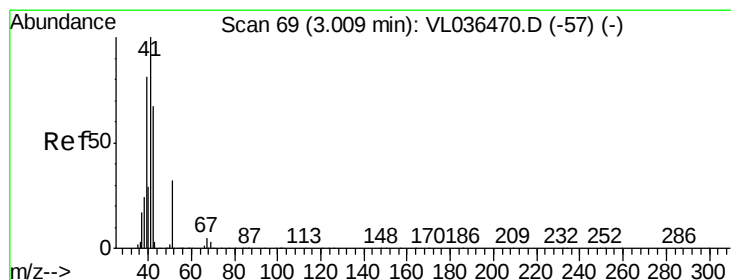
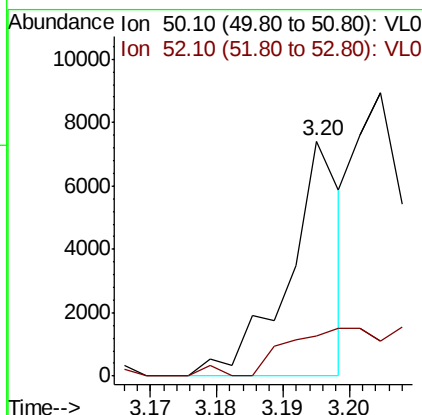
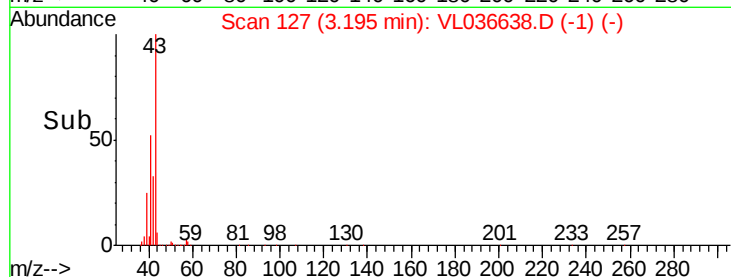
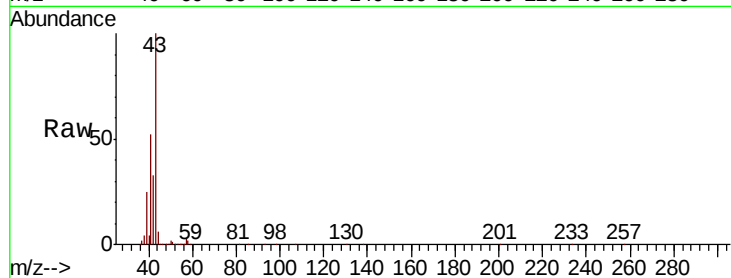




#4
Chloromethane
Concen: 0.050 ppbv
RT: 3.20 min Scan# 127
Delta R.T. 0.05 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

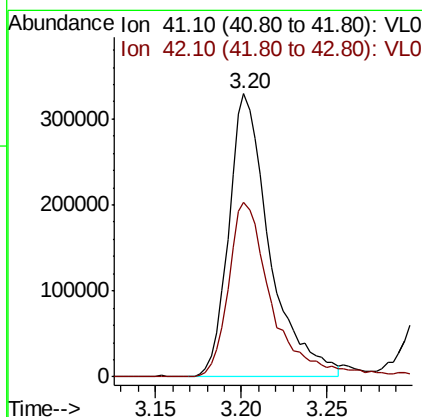
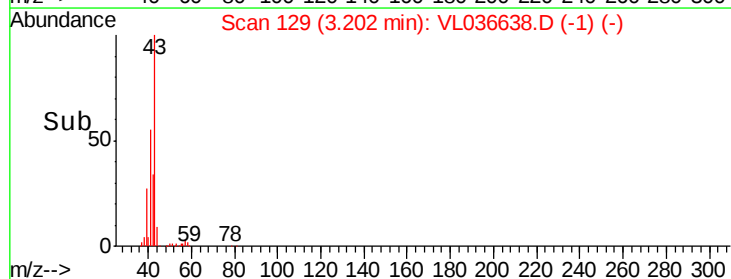
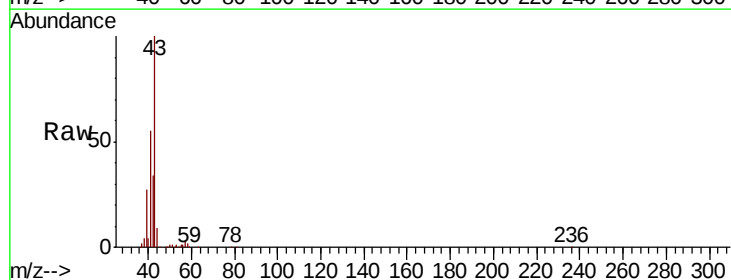
Instrument :
MSVOA_L
ClientSampleId :

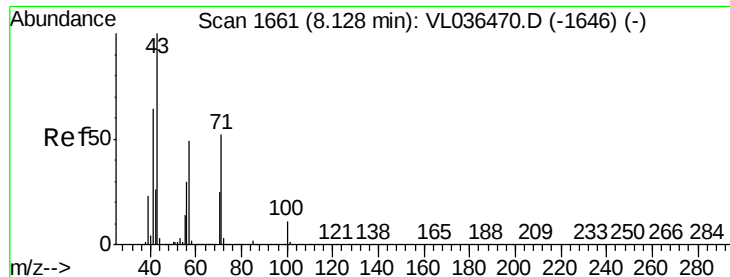
Tot Ion: 50 Resp: 4116
Ion Ratio Lower Upper
50 100
52 16.9 27.0 40.6#



#9
Propene
Concen: 7.327 ppbv
RT: 3.20 min Scan# 129
Delta R.T. 0.19 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion: 41 Resp: 543077
Ion Ratio Lower Upper
41 100
42 66.9 57.0 85.4

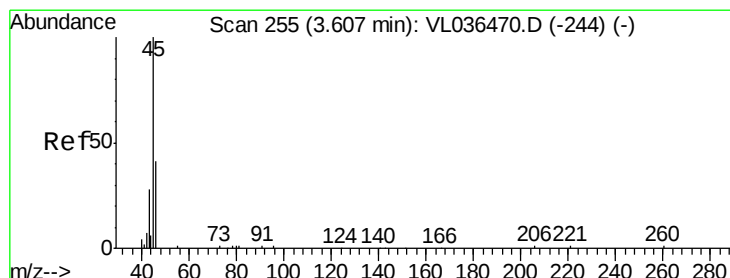
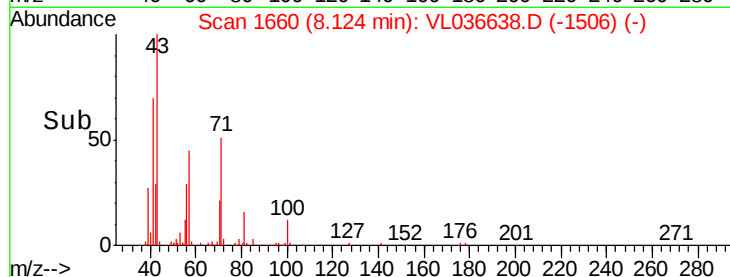
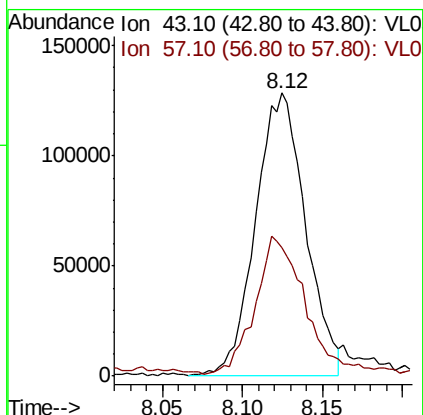
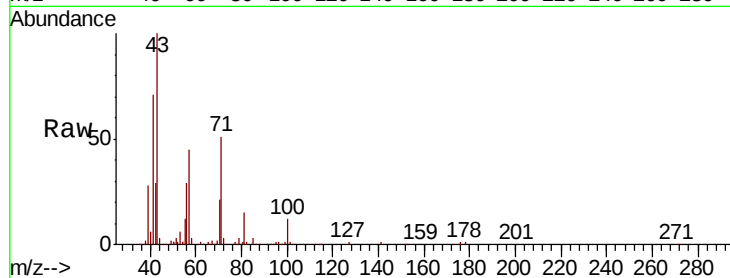




#10
Heptane
Concen: 1.461 ppbv
RT: 8.12 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

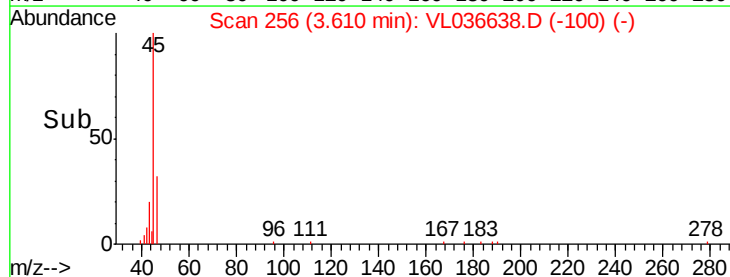
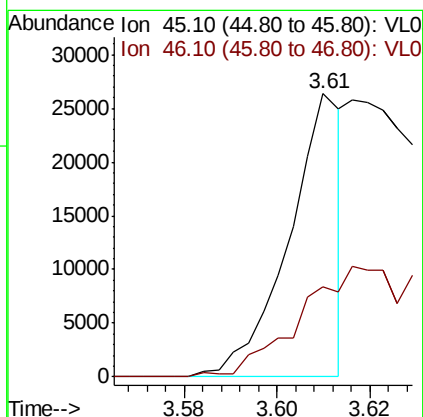
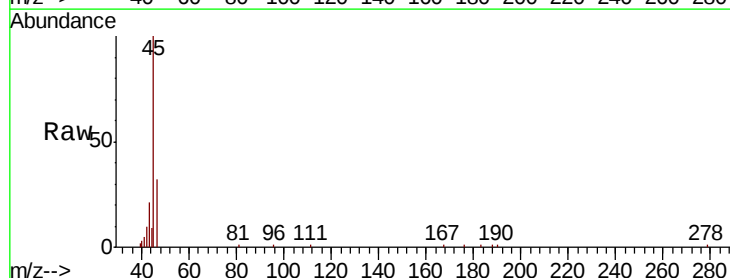
Instrument :
MSVOA_L
ClientSampled :

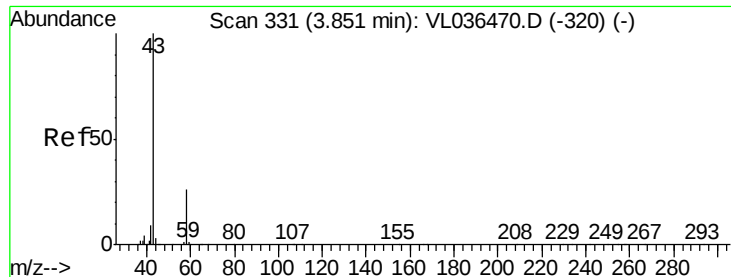
Tot Ion: 43 Resp: 275876
Ion Ratio Lower Upper
43 100
57 0.0 39.0 58.6#



#13
Ethanol
Concen: 2.360 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion: 45 Resp: 20833
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#

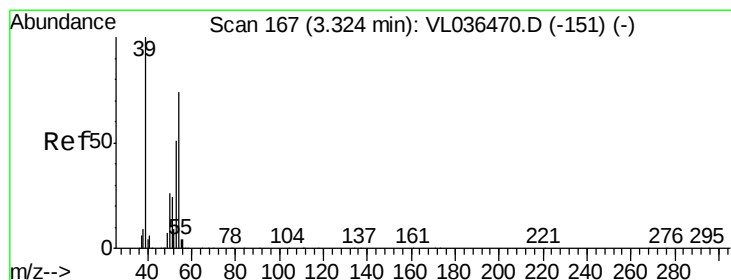
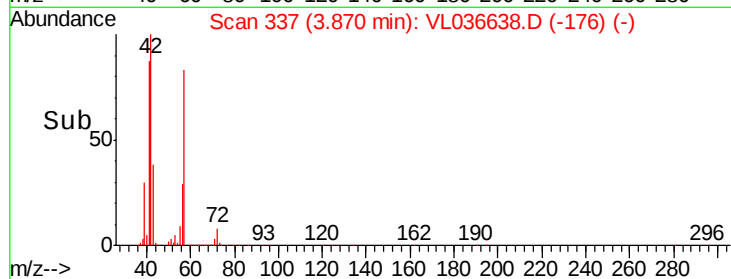
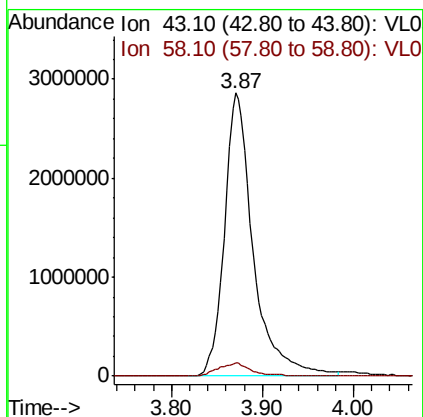
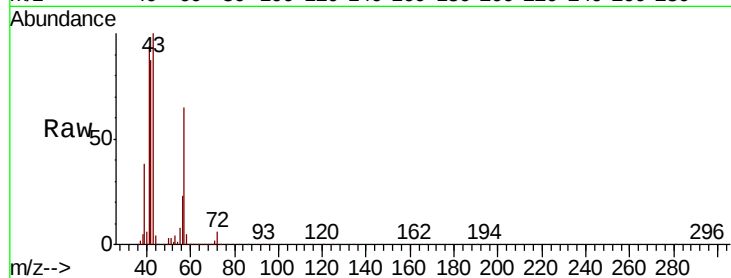




#15
Acetone
Concen: 51.307 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

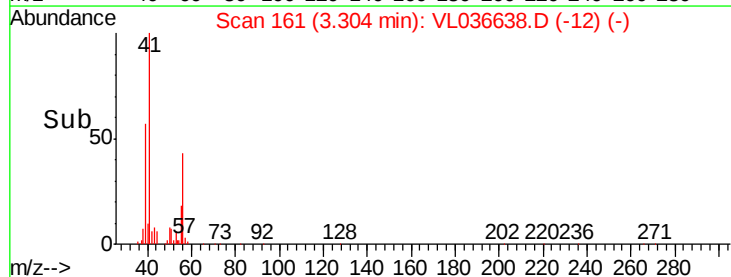
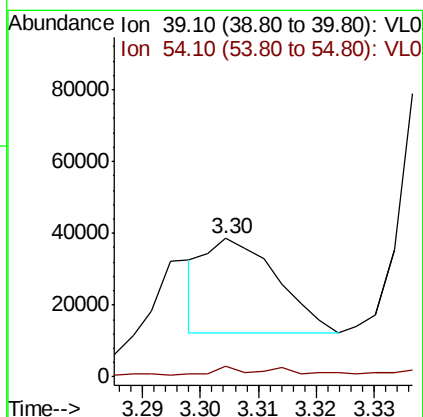
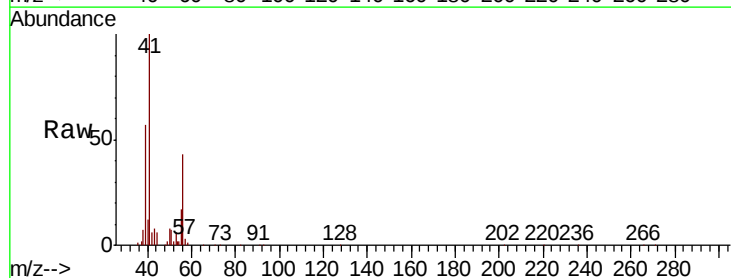
Instrument :
MSVOA_L
ClientSampleId :

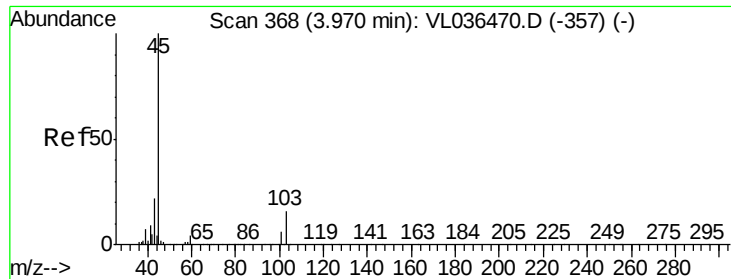
Tot Ion: 43 Resp: 6284077
Ion Ratio Lower Upper
43 100
58 5.7 21.2 31.8#



#16
1,3-Butadiene
Concen: 0.268 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.02 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion: 39 Resp: 22886
Ion Ratio Lower Upper
39 100
54 13.3 58.8 88.2#





#19

Isopropyl Alcohol

Concen: 1.352 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036638.D

Acq: 1 Apr 2021 21:21

Instrument :

MSVOA_L

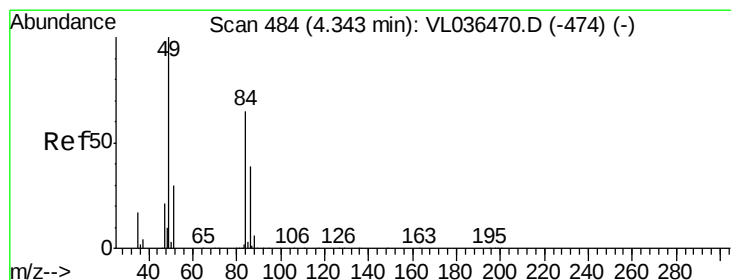
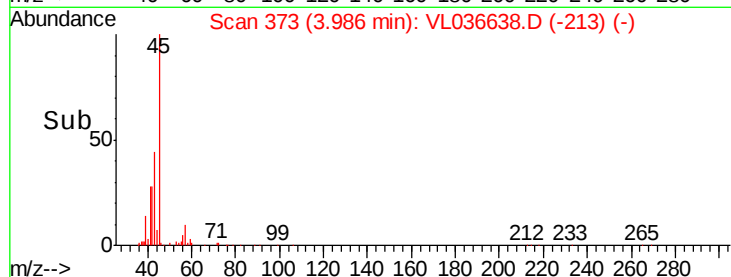
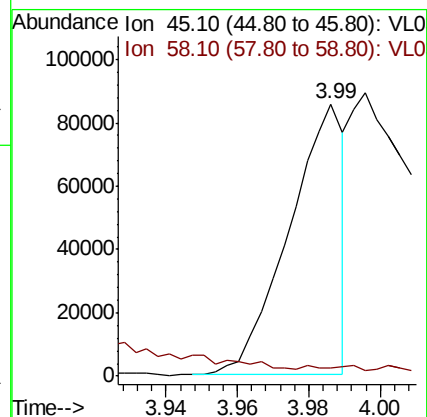
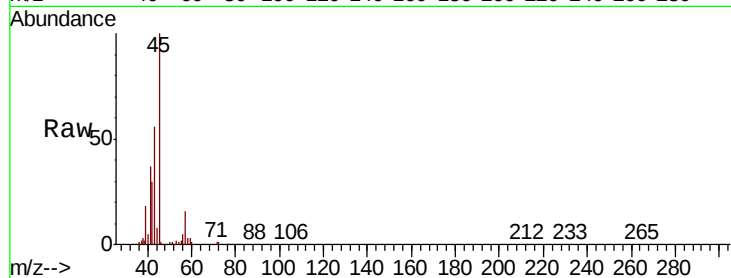
ClientSampled :

Tot Ion: 45 Resp: 91090

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 1.177 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036638.D

Acq: 1 Apr 2021 21:21

Tgt Ion: 84 Resp: 67522

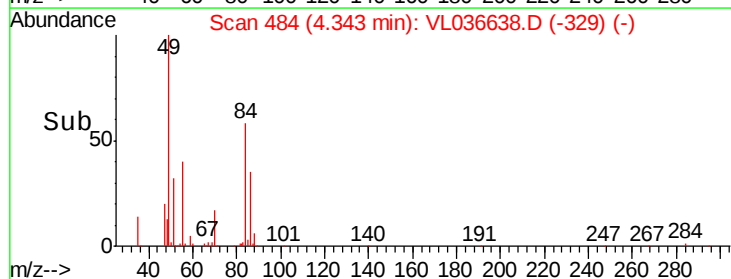
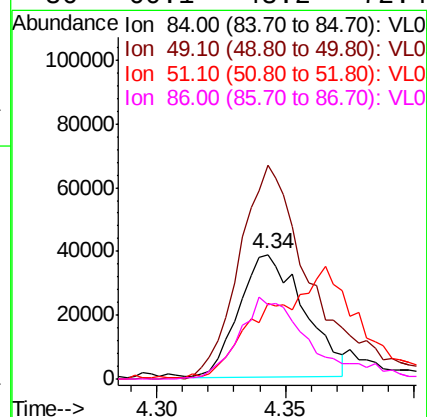
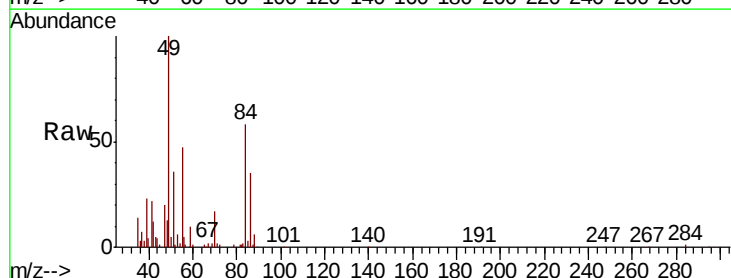
Ion Ratio Lower Upper

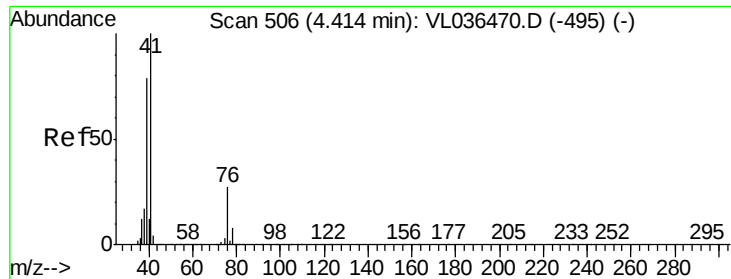
84 100

49 173.7 122.9 184.3

51 58.6 36.9 55.3#

86 60.1 48.2 72.4





#21

Allvl Chloride

Concen: 2.614 ppbv

RT: 4.37 min Scan# 491

Delta R.T. -0.05 min

Lab File: VL036638.D

Acq: 1 Apr 2021 21:21

Instrument :
MSVOA_L
ClientSampleId :

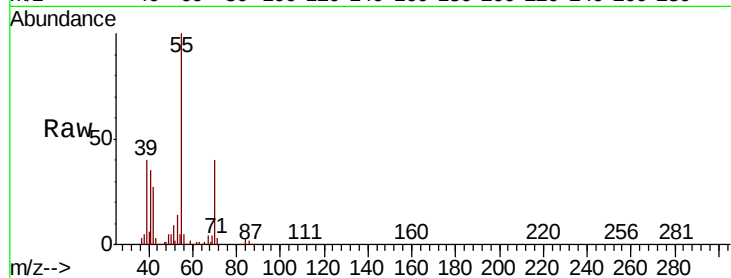
Tot Ion: 41 Resp: 255265

Ion Ratio Lower Upper

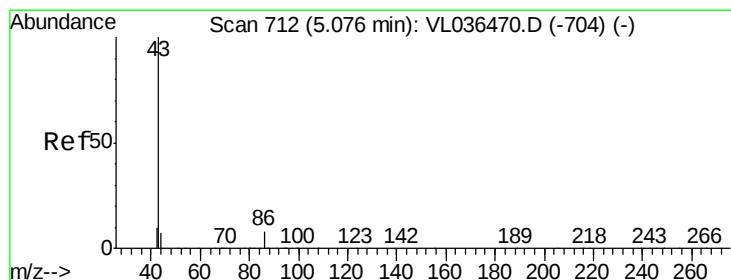
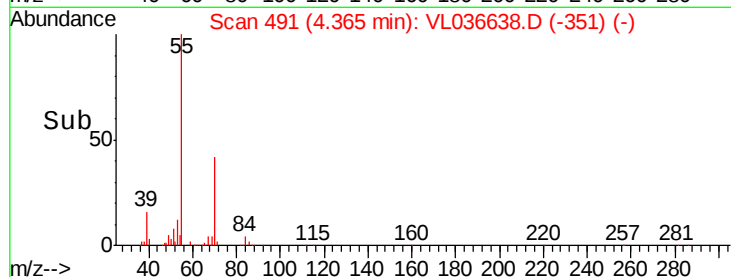
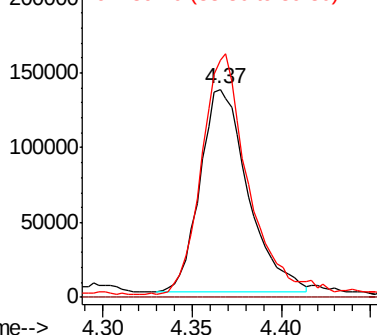
41 100

76 1.3 22.9 34.3#

39 121.7 67.3 100.9#



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



#23

Vinyl Acetate

Concen: 8.379 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL036638.D

Acq: 1 Apr 2021 21:21

Tgt Ion: 43 Resp: 1755379

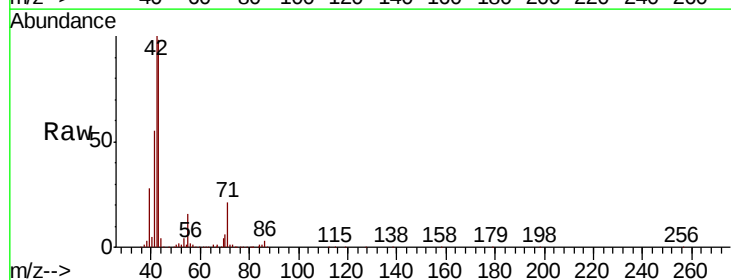
Ion Ratio Lower Upper

43 100

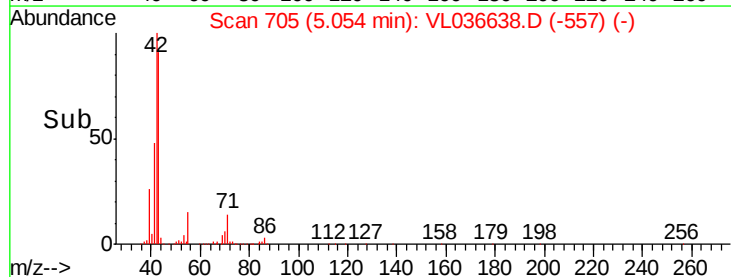
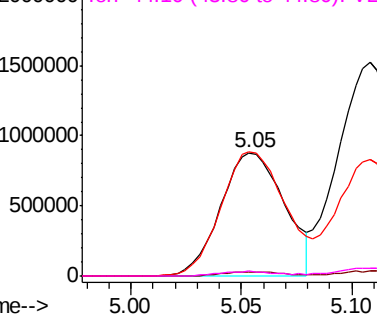
86 3.2 5.4 8.0#

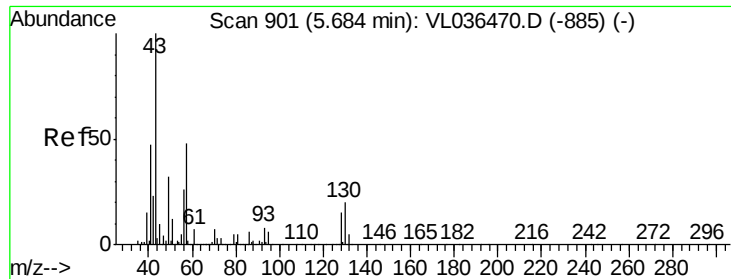
42 101.5 8.5 12.7#

44 3.5 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

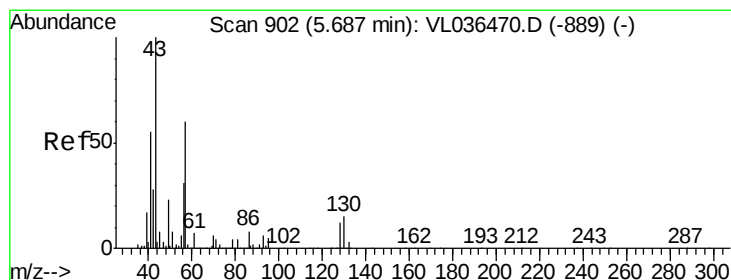
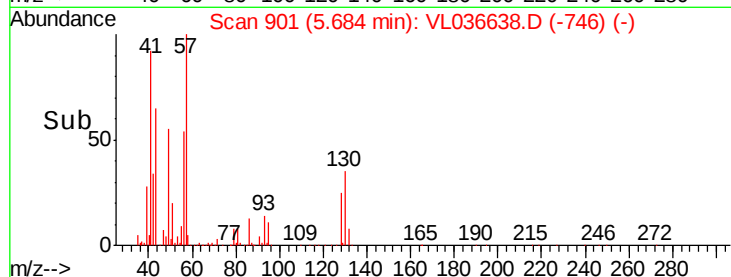
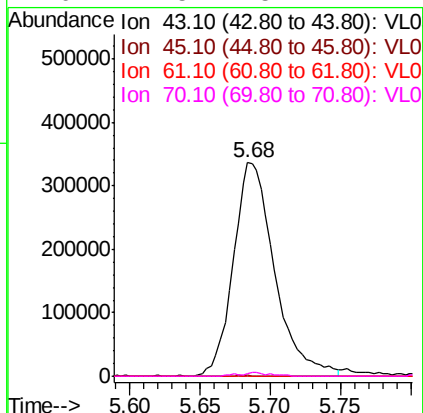
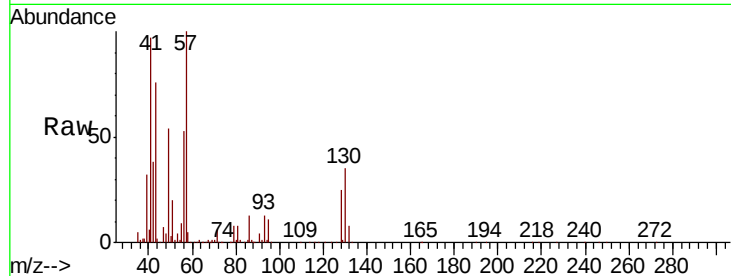




#25
Ethyl Acetate
Concen: 2.367 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

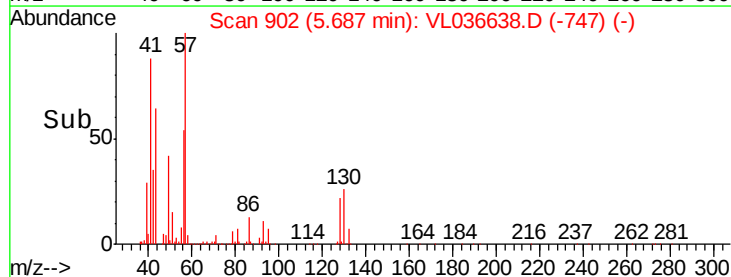
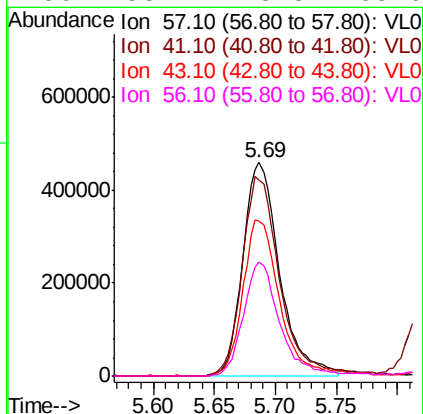
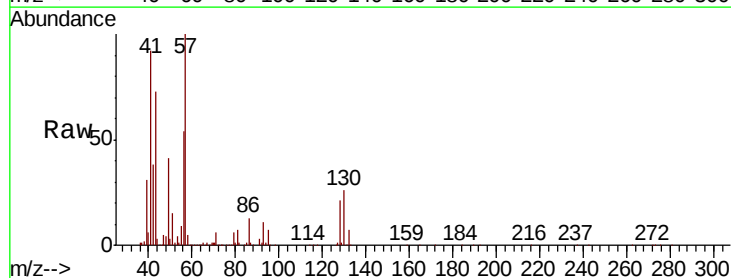
Instrument :
MSVOA_L
ClientSampled :

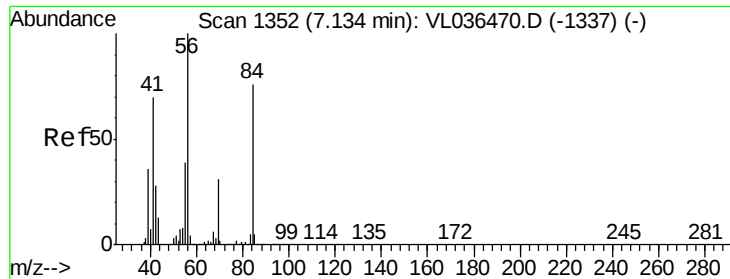
Tot Ion:	43	Resp:	689238
Ion	Ratio	Lower	Upper
43	100		
45	0.3	7.9	11.9#
61	0.1	7.4	11.2#
70	1.5	5.1	7.7#



#26
Hexane
Concen: 7.056 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion:	57	Resp:	953427
Ion	Ratio	Lower	Upper
57	100		
41	96.1	77.2	115.8
43	73.6	173.8	260.6#
56	53.4	43.8	65.6

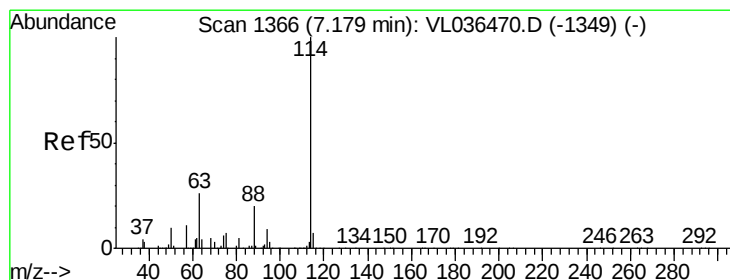
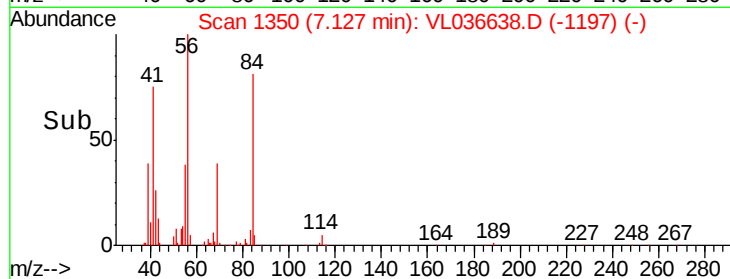
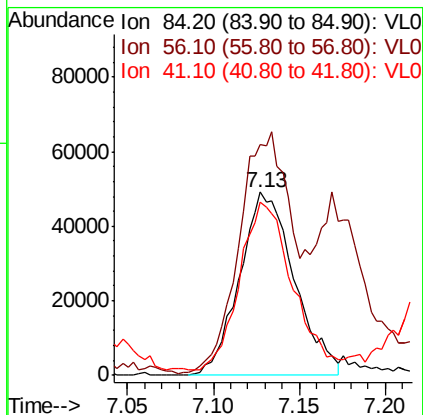
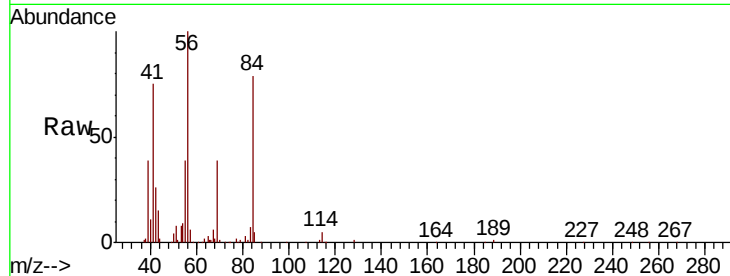




#30
Cvclohexane
Concen: 0.980 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

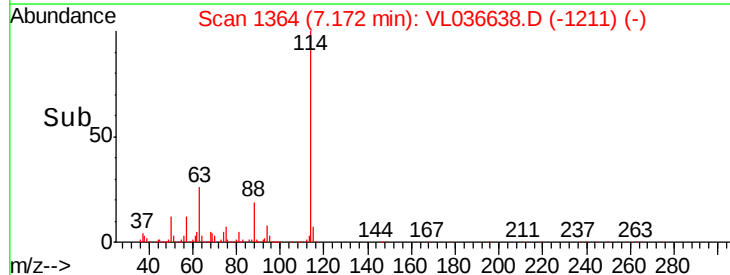
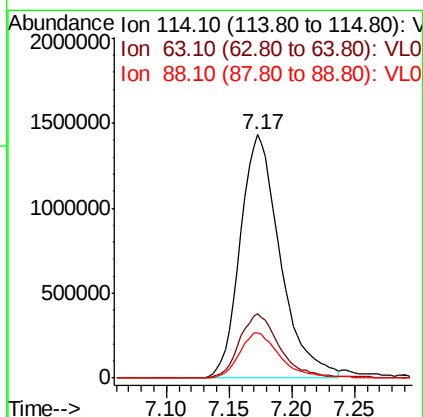
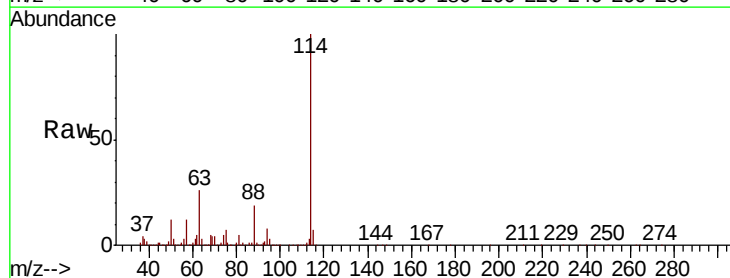
Instrument :
MSVOA_L
ClientSampleId :

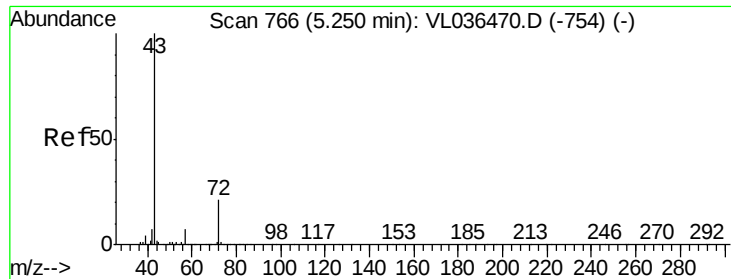
Tot Ion: 84 Resp: 107394
Ion Ratio Lower Upper
84 100
56 121.8 114.6 171.8
41 91.8 75.3 112.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion: 114 Resp: 3184049
Ion Ratio Lower Upper
114 100
63 26.9 22.4 33.6
88 19.2 15.4 23.0

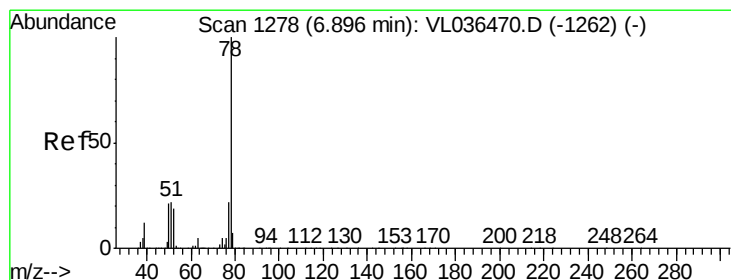
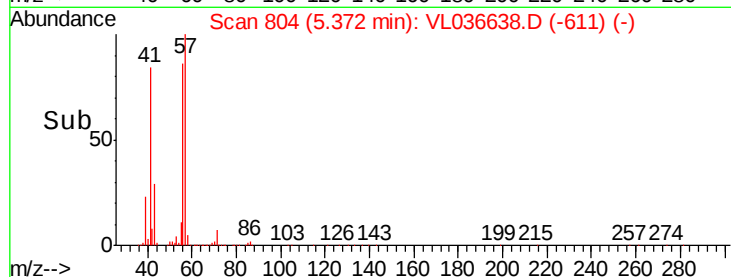
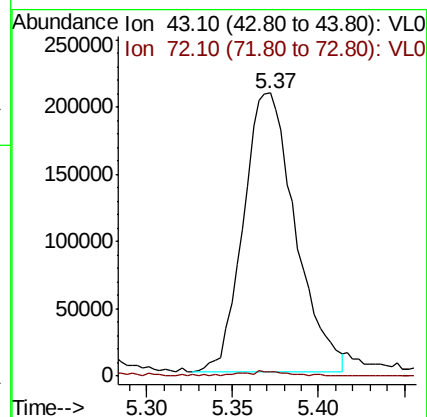
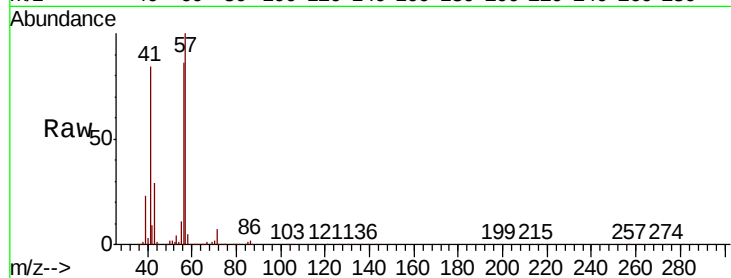




#34
2-Butanone
Concen: 2.803 ppbv
RT: 5.37 min Scan# 804
Delta R.T. 0.12 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

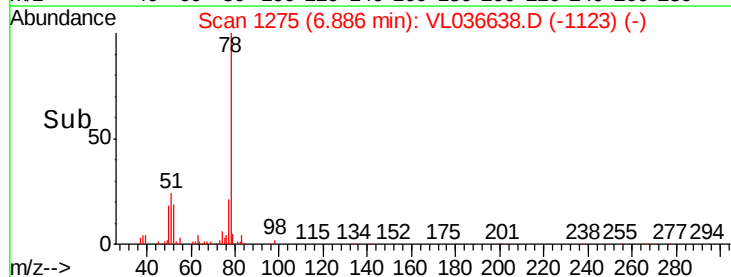
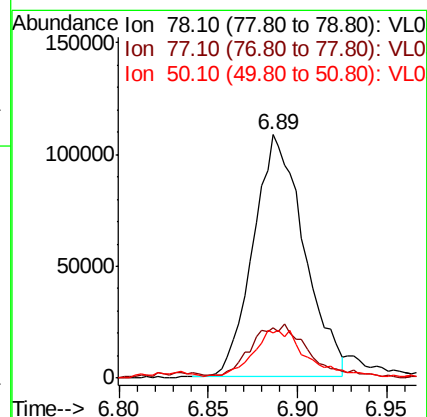
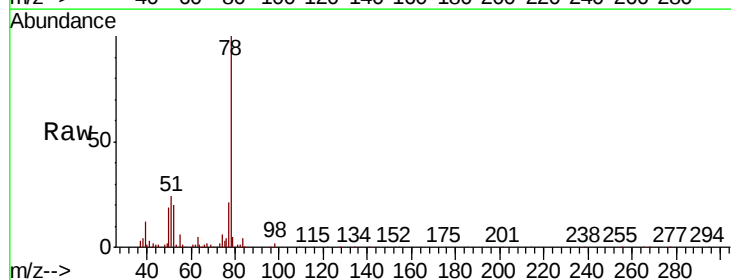
Instrument :
MSVOA_L
ClientSampleId :

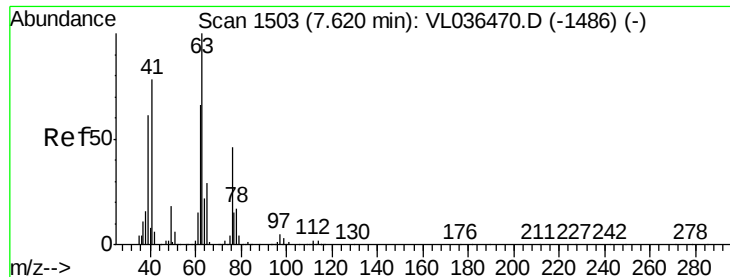
Tot Ion: 43 Resp: 435721
Ion Ratio Lower Upper
43 100
72 2.0 17.0 25.6#



#36
Benzene
Concen: 0.735 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion: 78 Resp: 215956
Ion Ratio Lower Upper
78 100
77 18.8 18.0 27.0
50 17.4 16.5 24.7

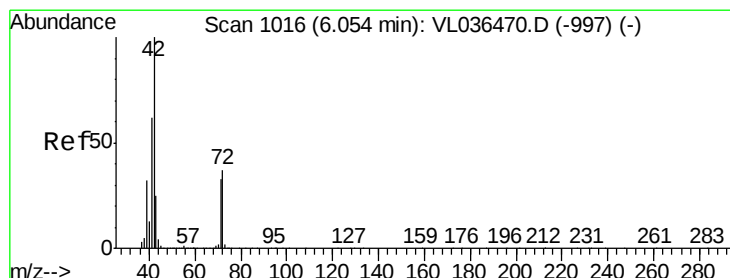
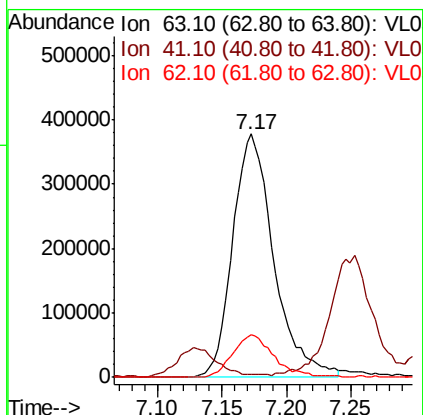
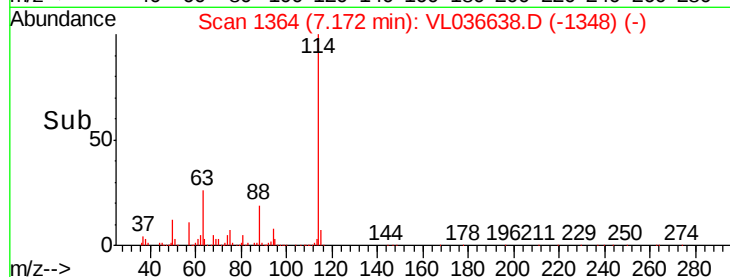
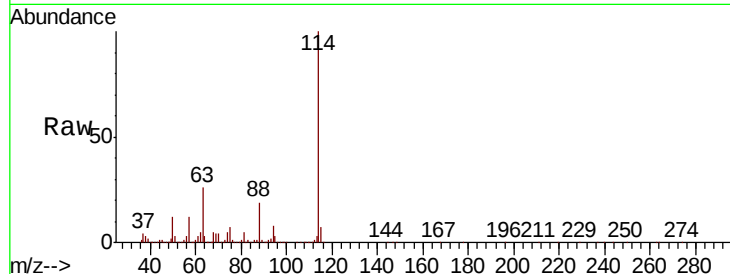




#39
 1,2-Dichloropropane
 Concen: 7.001 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL036638.D
 Acq: 1 Apr 2021 21:21

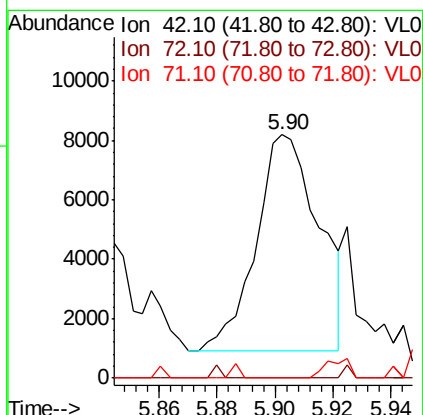
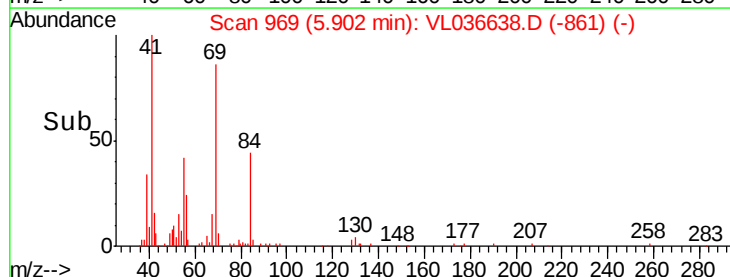
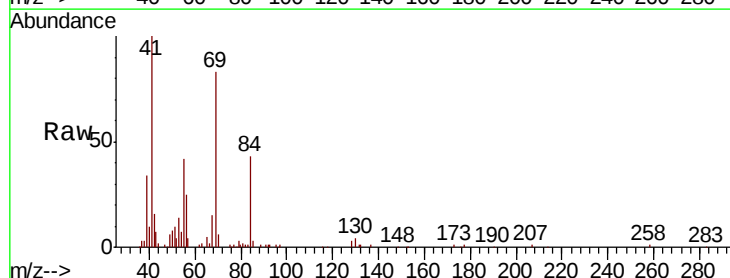
Instrument :
 MSVOA_L
 ClientSampleId :

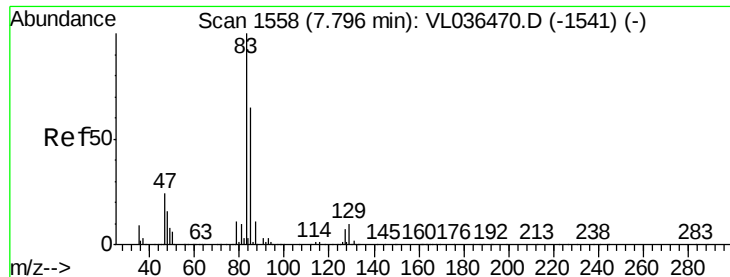
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	17.4	52.8	79.2#



#41
 Tetrahydrofuran
 Concen: 0.154 ppbv
 RT: 5.90 min Scan# 969
 Delta R.T. -0.15 min
 Lab File: VL036638.D
 Acq: 1 Apr 2021 21:21

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.0	27.6	41.4#
71	0.0	27.0	40.4#





#42

Bromodichloromethane

Concen: 0.082 ppbv

RT: 7.79 min Scan# 1555

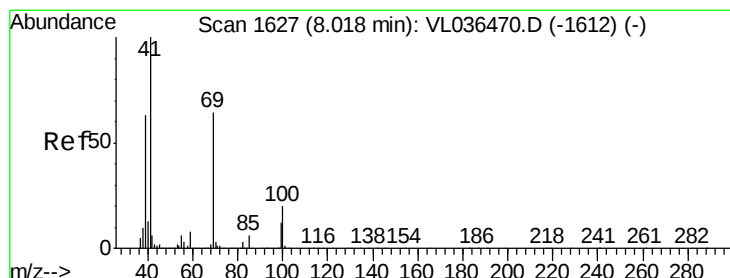
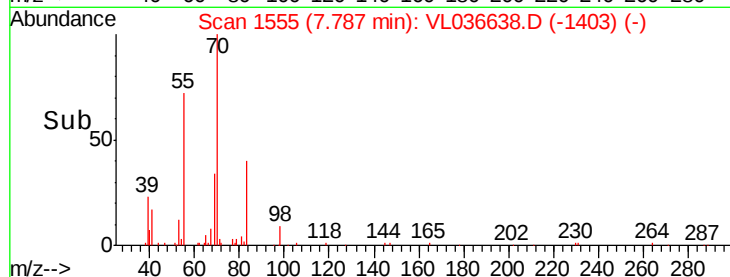
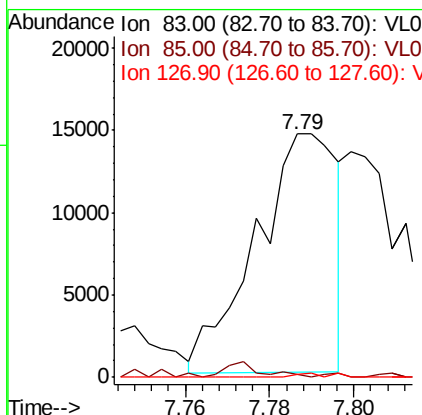
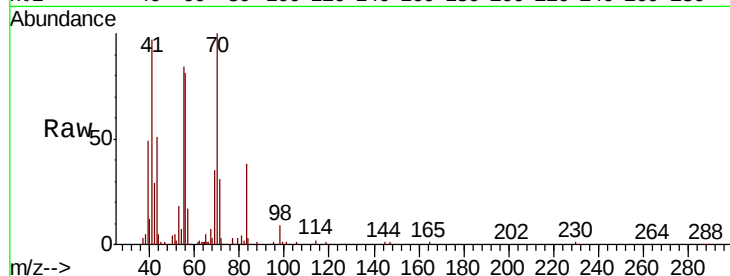
Delta R.T. -0.01 min

Lab File: VL036638.D

Acq: 1 Apr 2021 21:21

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	83	Resp:	19351
Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.8	77.6#
127	1.1	5.8	8.8#



#43

Methyl Methacrylate

Concen: 0.051 ppbv

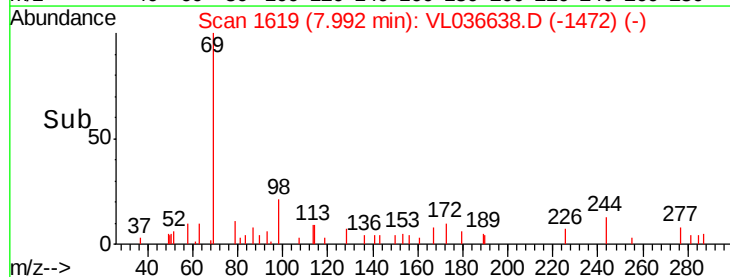
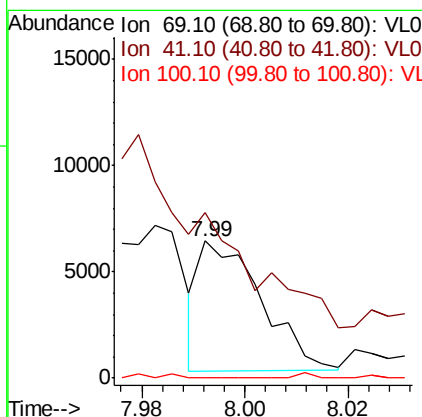
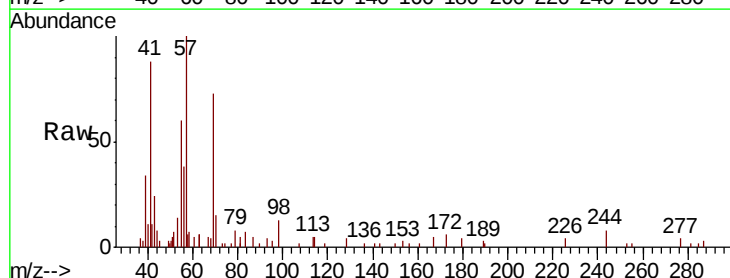
RT: 7.99 min Scan# 1619

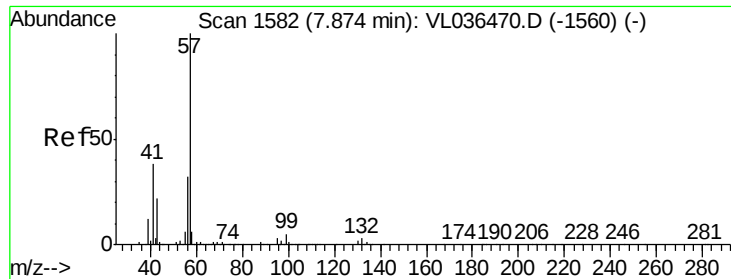
Delta R.T. -0.03 min

Lab File: VL036638.D

Acq: 1 Apr 2021 21:21

Tgt Ion:	69	Resp:	5077
Ion	Ratio	Lower	Upper
69	100		
41	0.0	126.8	190.2#
100	0.0	24.9	37.3#

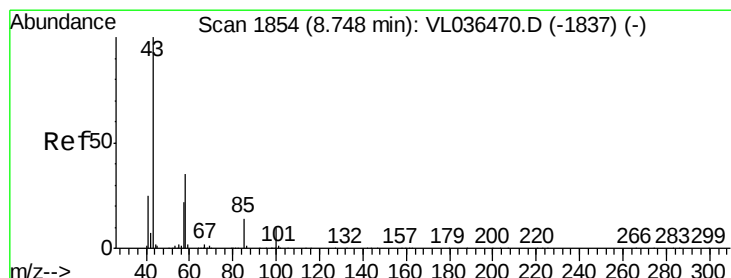
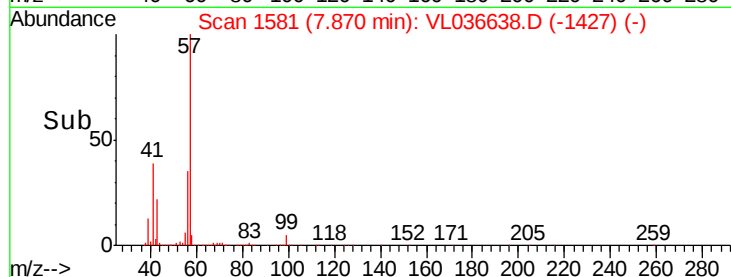
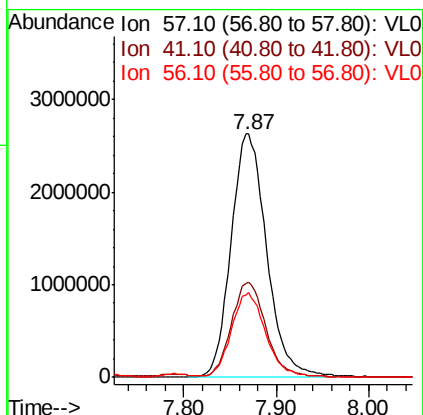
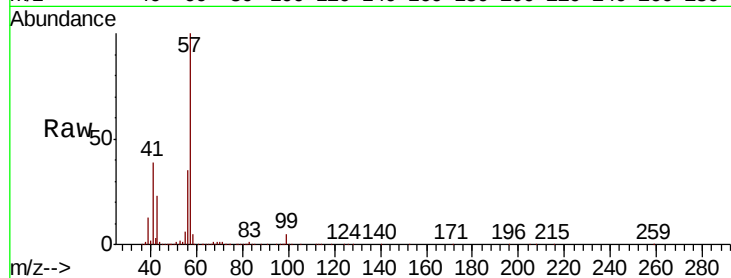




#44
 2,2,4-Trimethylpentane
 Concen: 13.545 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VL036638.D
 Acq: 1 Apr 2021 21:21

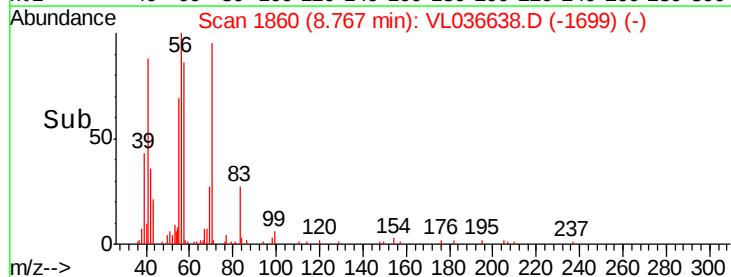
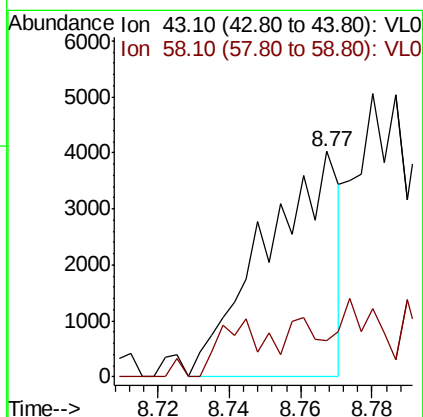
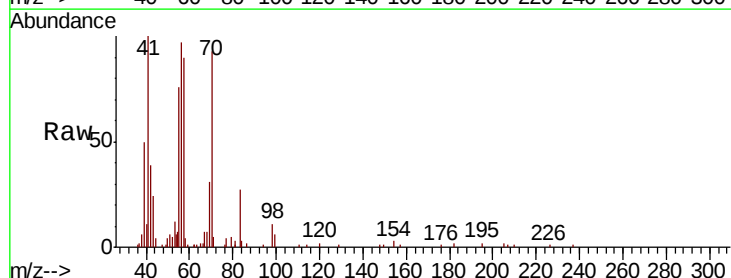
Instrument :
 MSVOA_L
 ClientSampleId :

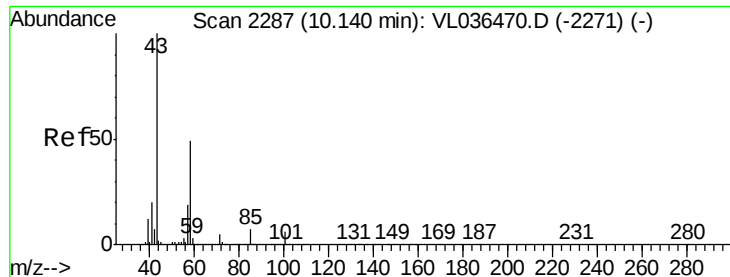
Tot Ion: 57 Resp: 7000477
 Ion Ratio Lower Upper
 57 100
 41 38.4 28.8 43.2
 56 33.8 26.1 39.1



#50
 4-Methyl-2-Pentanone
 Concen: 0.025 ppbv
 RT: 8.77 min Scan# 1860
 Delta R.T. 0.02 min
 Lab File: VL036638.D
 Acq: 1 Apr 2021 21:21

Tgt Ion: 43 Resp: 5721
 Ion Ratio Lower Upper
 43 100
 58 82.6 28.2 42.2#

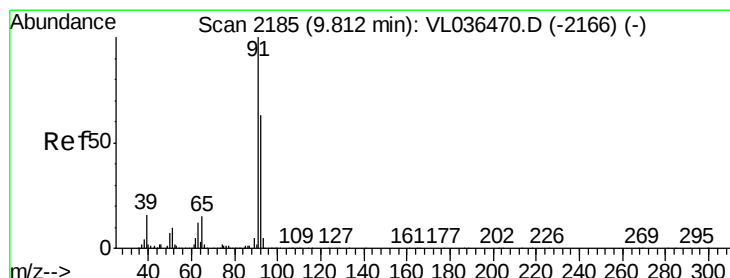
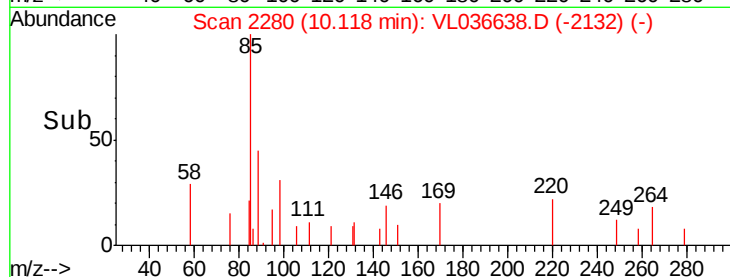
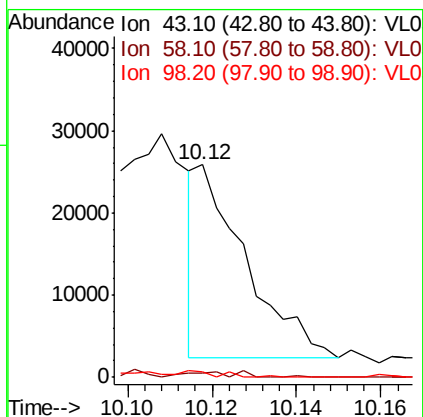
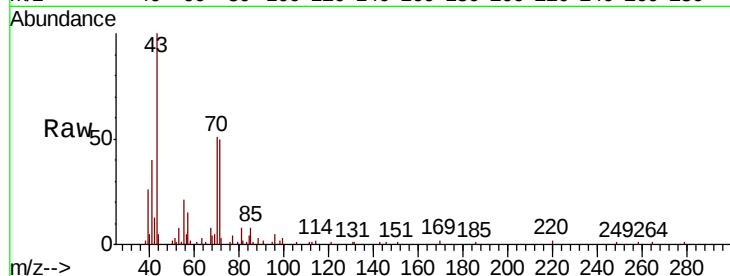




#51
2-Hexanone
Concen: 0.167 ppbv
RT: 10.12 min Scan# 2280
Delta R.T. -0.02 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

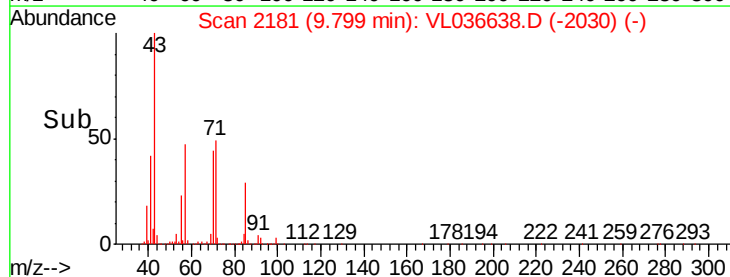
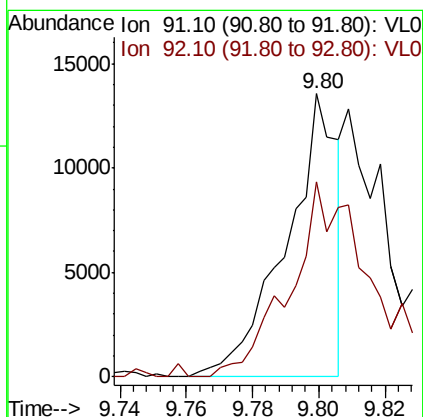
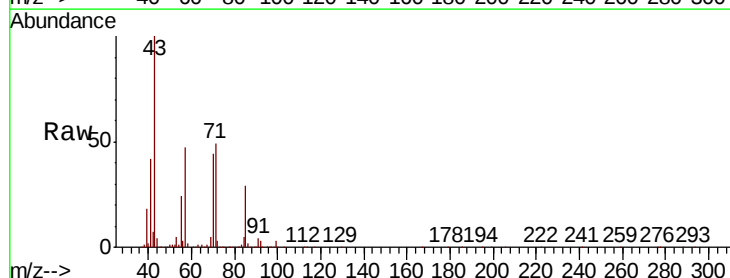
Instrument :
MSVOA_L
ClientSampleId :

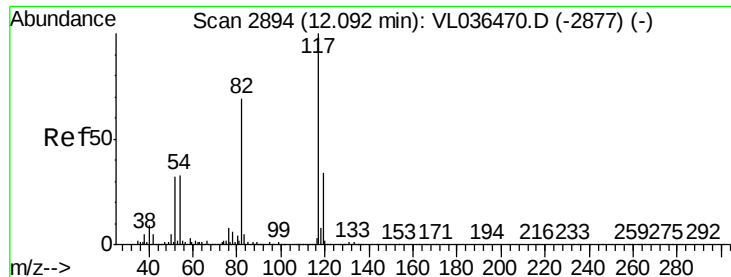
Tot Ion: 43 Resp: 18902
Ion Ratio Lower Upper
43 100
58 13.5 37.7 56.5#
98 4.8 0.2 0.2#



#53
Toluene
Concen: 0.046 ppbv
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion: 91 Resp: 14523
Ion Ratio Lower Upper
91 100
92 114.2 48.8 73.2#

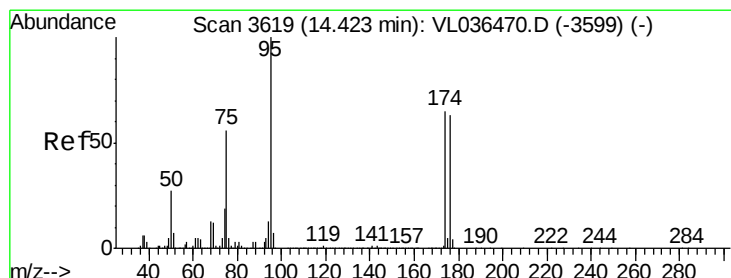
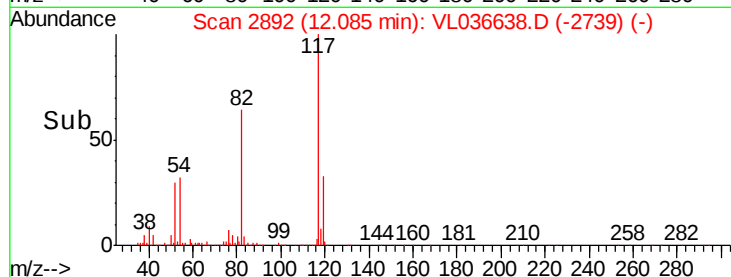
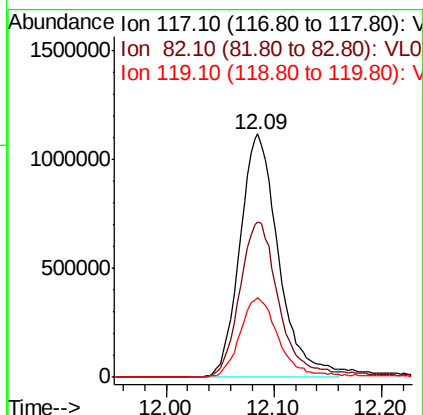
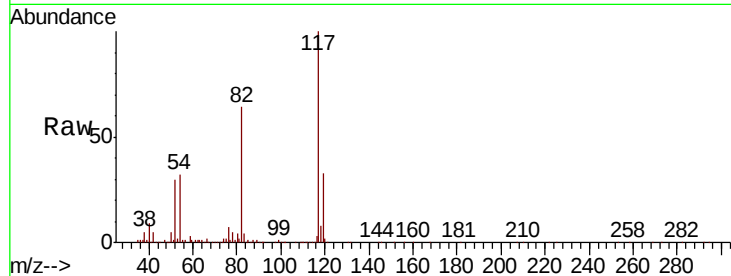




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 2783850
Ion Ratio Lower Upper
117 100
82 67.2 57.4 86.0
119 34.0 47.4 71.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.354 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL036638.D
Acq: 1 Apr 2021 21:21

Tgt Ion: 95 Resp: 2075331
Ion Ratio Lower Upper
95 100
174 78.5 51.0 76.6#
175 5.2 3.9 5.9

