

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036666.D
 Acq On : 3 Apr 2021 4:38
 Operator : SY/AP
 Sample : M1834-05 1200X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 03 07:30:01 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	5.65	49	1194737	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3170871	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	2729686	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2145113	9.86	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

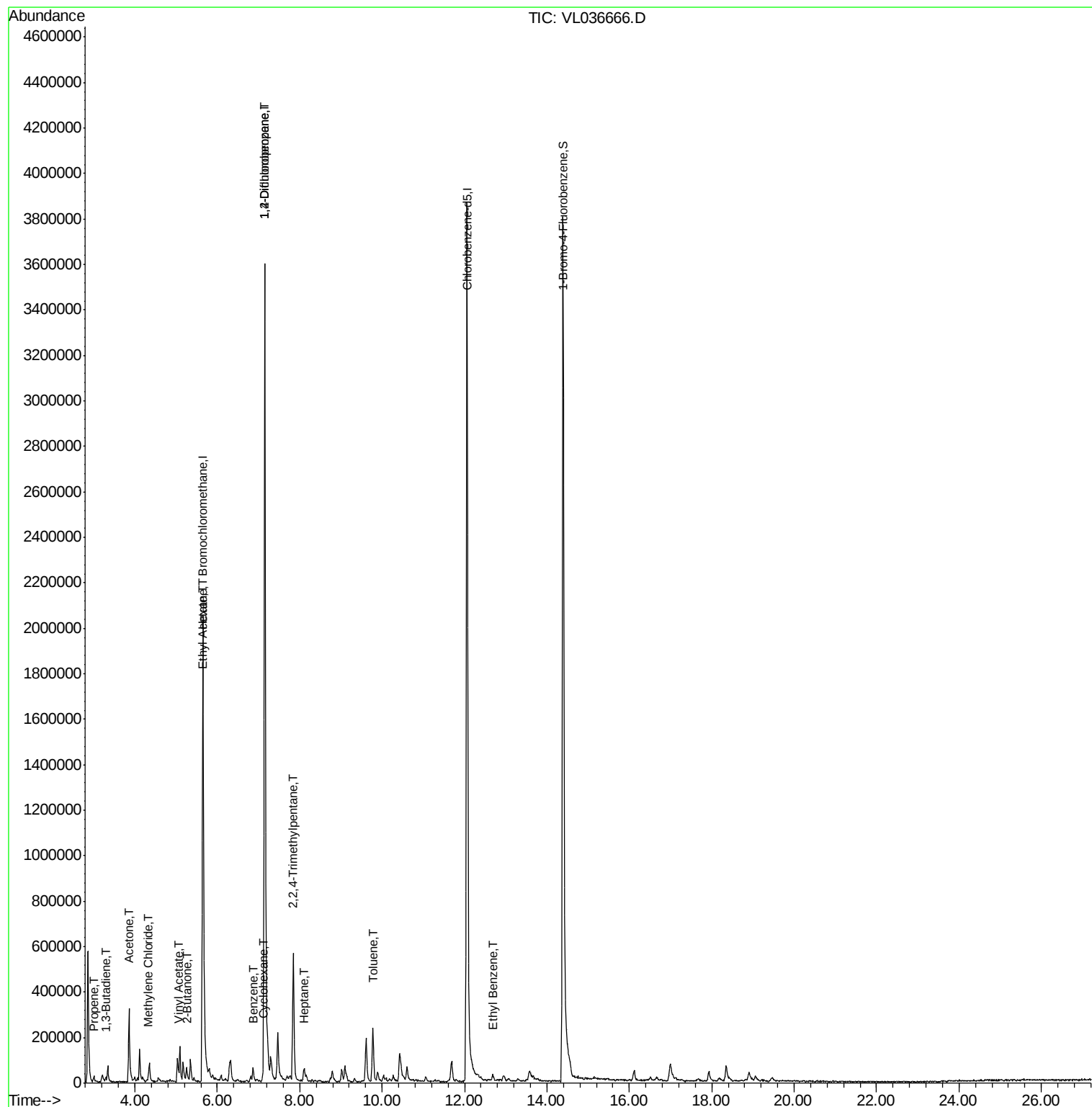
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	8138	0.114	ppbv	98
10) Heptane	8.10	43	11202	0.062	ppbv #	28
15) Acetone	3.85	43	160251	1.363	ppbv	94
16) 1,3-Butadiene	3.30	39	3503	0.043	ppbv #	35
20) Methylene Chloride	4.32	84	5665	0.103	ppbv #	75
23) Vinyl Acetate	5.06	43	6433	0.032	ppbv #	1
25) Ethyl Acetate	5.66	43	30524	0.109	ppbv #	78
26) Hexane	5.66	57	22877	0.176	ppbv #	35
30) Cyclohexane	7.10	84	4802	0.046	ppbv #	1
34) 2-Butanone	5.25	43	40679	0.263	ppbv #	55
36) Benzene	6.87	78	30863	0.106	ppbv	96
39) 1,2-Dichloropropane	7.15	63	805749	6.792	ppbv #	24
44) 2,2,4-Trimethylpentane	7.84	57	572356	1.112	ppbv	99
53) Toluene	9.78	91	23883	0.077	ppbv #	58
58) Ethyl Benzene	12.68	91	18151	0.046	ppbv	98

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

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Quant Time: Apr 03 07:30:01 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.03 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

Instrument :

MSVOA_L

ClientSampled :

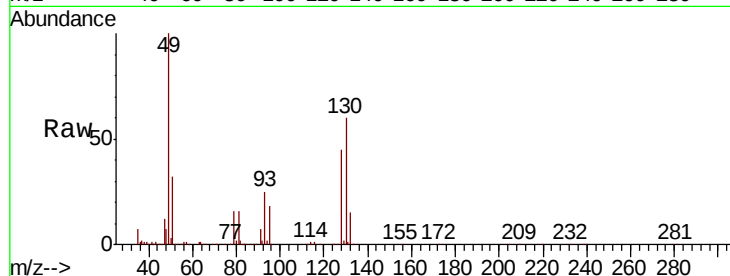
Tot Ion: 49 Resp: 1194737

Ion Ratio Lower Upper

49 100

128 48.3 23.5 70.6

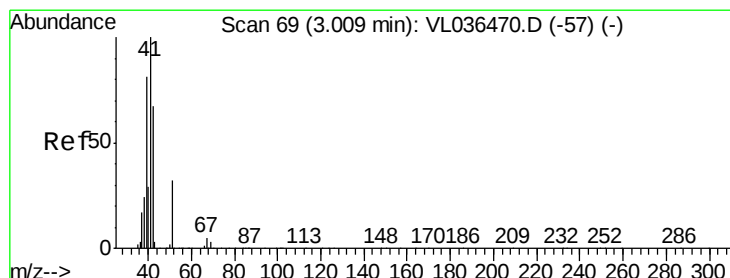
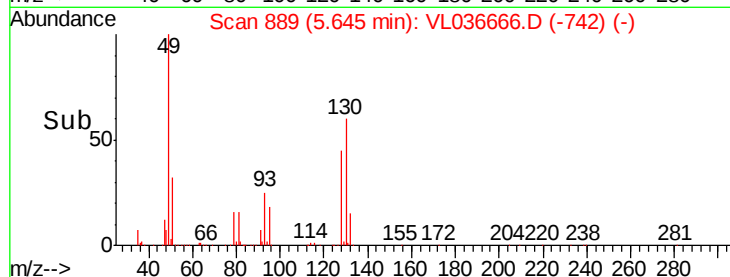
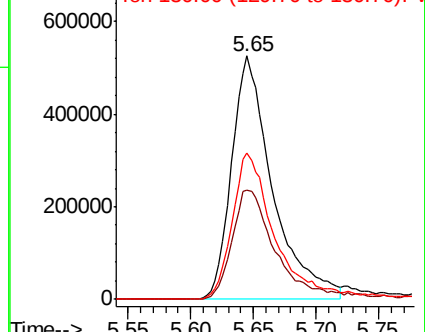
130 64.7 29.1 87.4



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



#9

Propene

Concen: 0.114 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036666.D

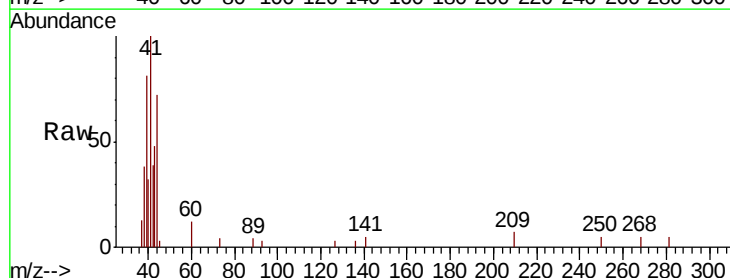
Acq: 3 Apr 2021 4:38

Tgt Ion: 41 Resp: 8138

Ion Ratio Lower Upper

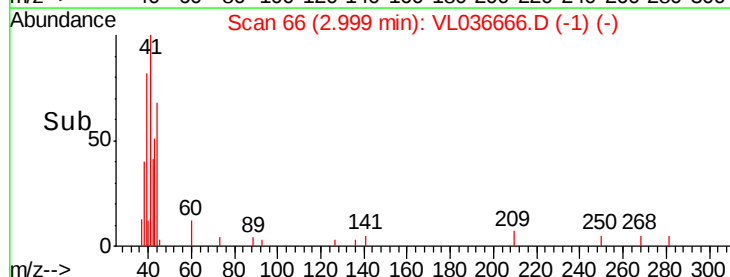
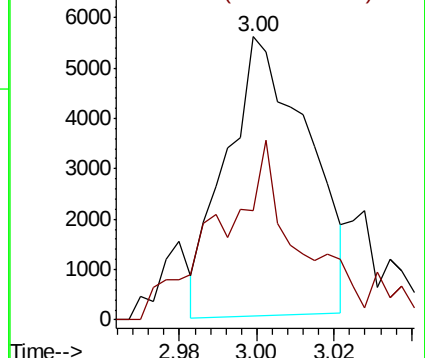
41 100

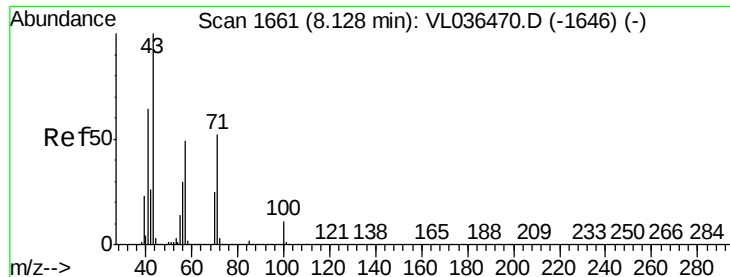
42 69.9 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

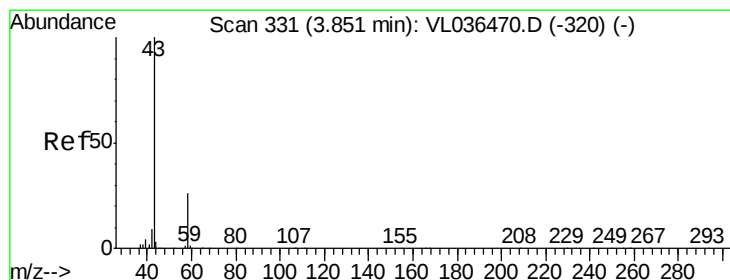
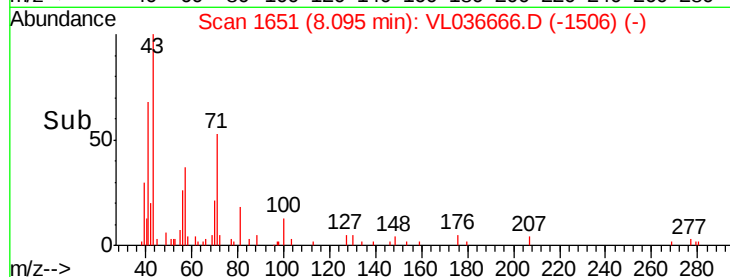
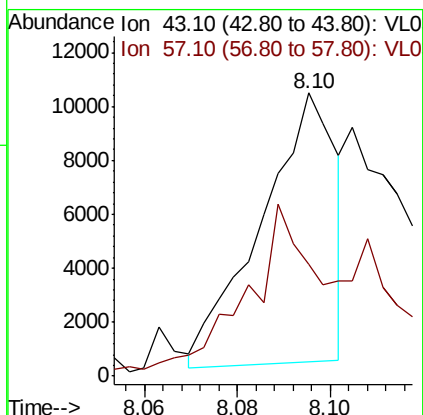
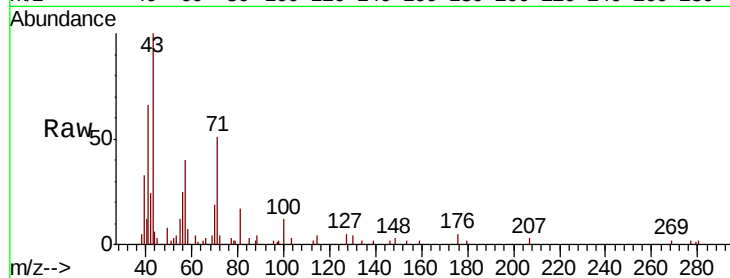




#10
Heptane
Concen: 0.062 ppbv
RT: 8.10 min Scan# 1651
Delta R.T. -0.03 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

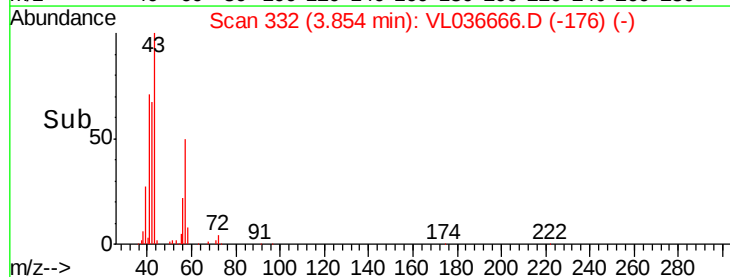
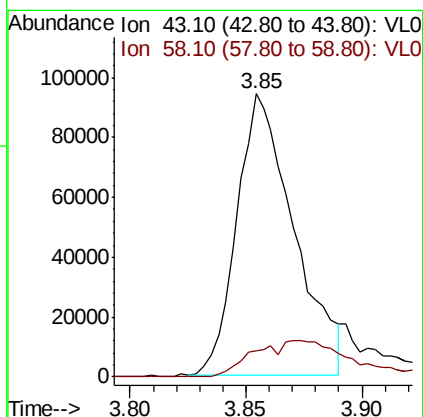
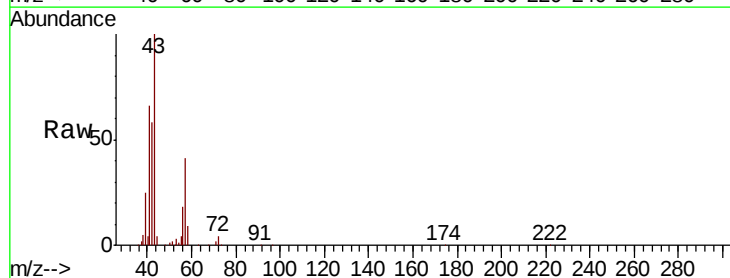
Instrument :
MSVOA_L
ClientSampleId :

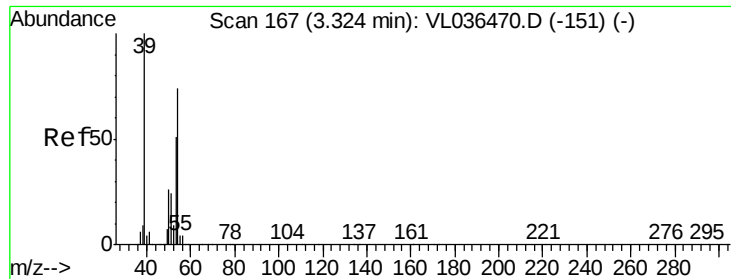
Tot Ion: 43 Resp: 11202
Ion Ratio Lower Upper
43 100
57 0.0 39.0 58.6#



#15
Acetone
Concen: 1.363 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

Tgt Ion: 43 Resp: 160251
Ion Ratio Lower Upper
43 100
58 23.6 21.2 31.8





#16

1,3-Butadiene

Concen: 0.043 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

Instrument :

MSVOA_L

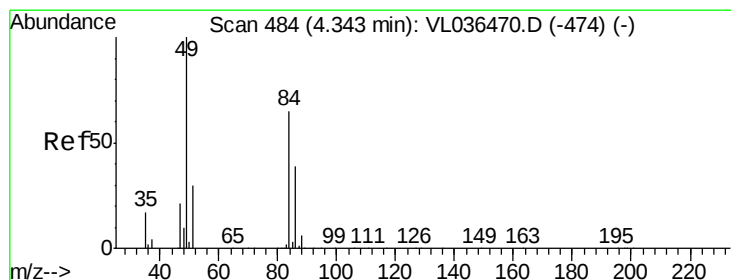
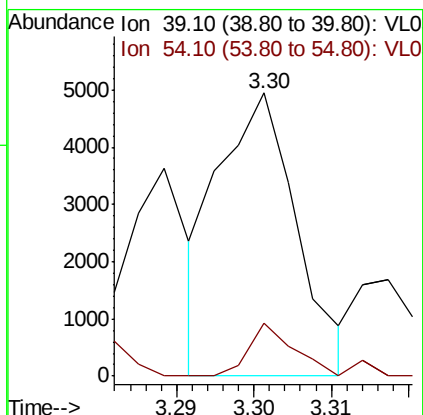
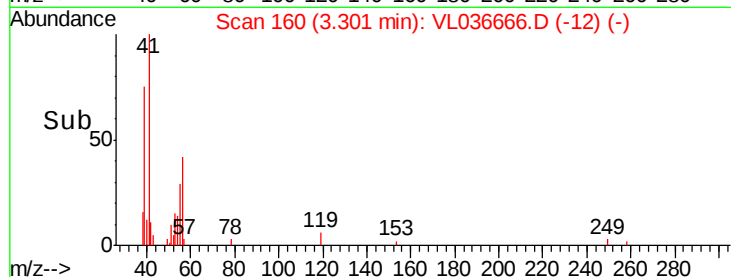
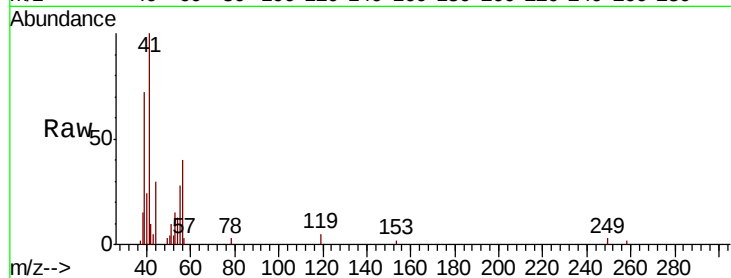
ClientSampleId :

Tot Ion: 39 Resp: 3503

Ion Ratio Lower Upper

39 100

54 18.6 58.8 88.2#



#20

Methylene Chloride

Concen: 0.103 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.02 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

Tgt Ion: 84 Resp: 5665

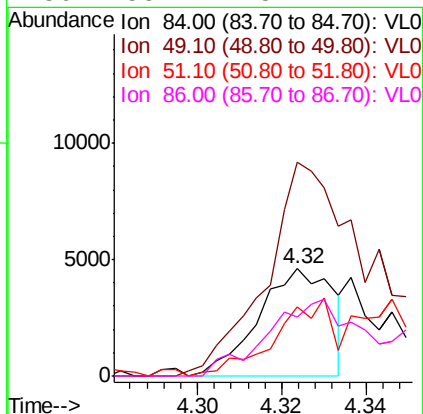
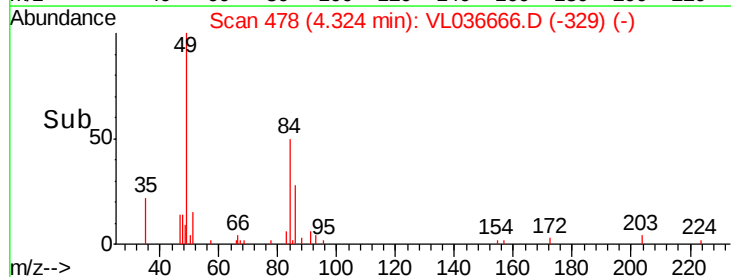
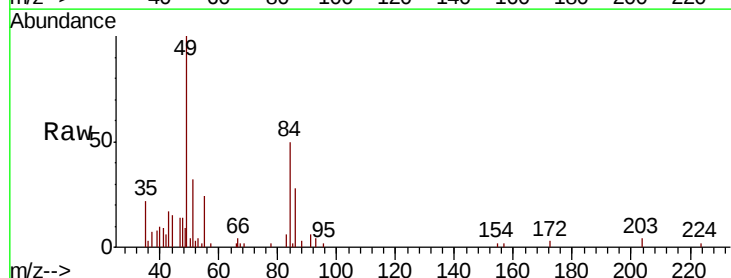
Ion Ratio Lower Upper

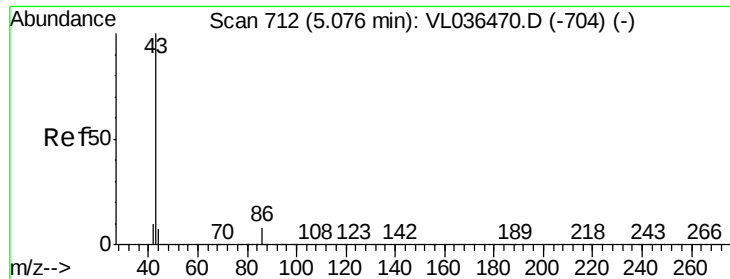
84 100

49 193.6 122.9 184.3#

51 64.5 36.9 55.3#

86 55.4 48.2 72.4

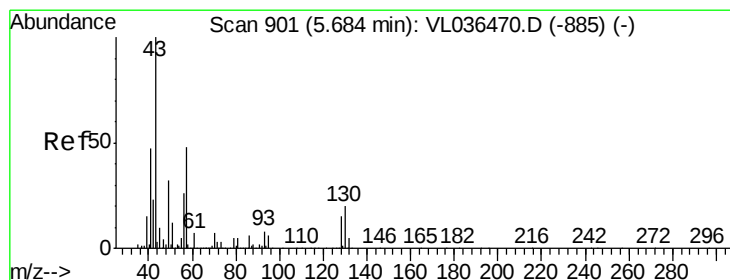
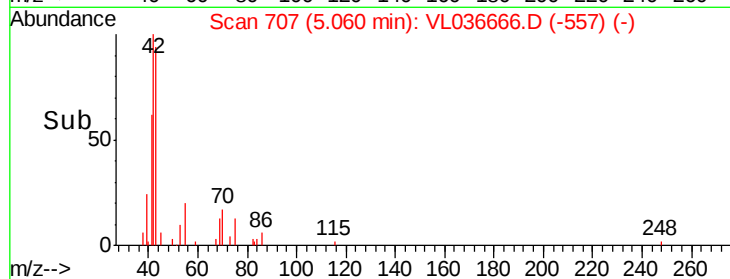
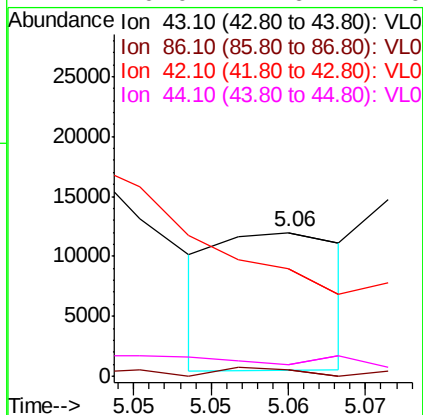
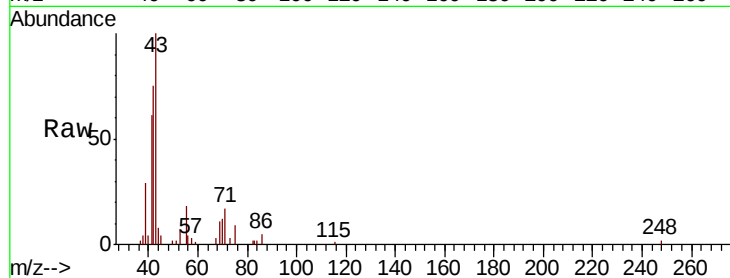




#23
 Vinyl Acetate
 Concen: 0.032 ppbv
 RT: 5.06 min Scan# 707
 Delta R.T. -0.02 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

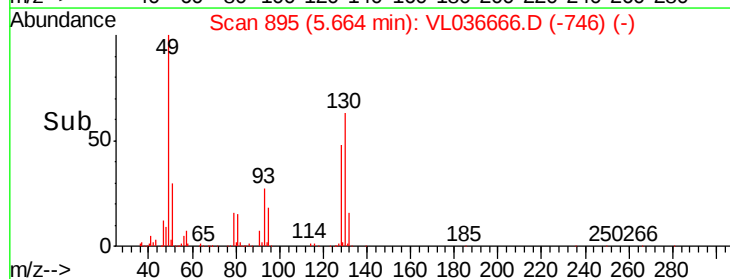
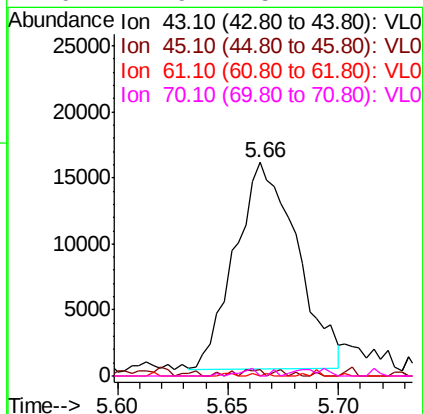
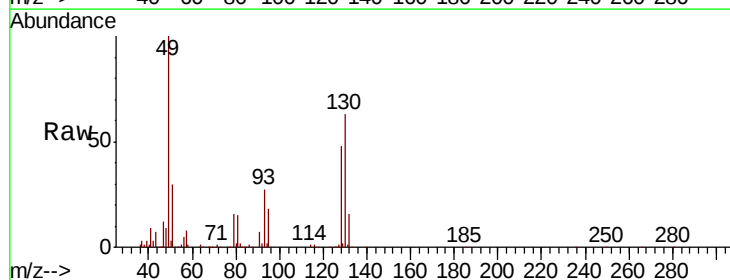
Instrument :
 MSVOA_L
 ClientSampleId :

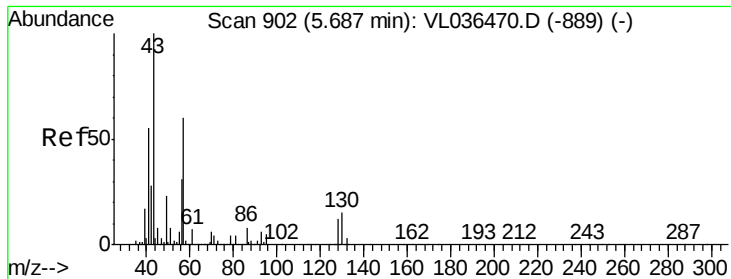
Tot Ion:	43	Resp:	6433
Ion	Ratio	Lower	Upper
43	100		
86	30.8	5.4	8.0#
42	120.1	8.5	12.7#
44	0.0	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.109 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. -0.02 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

Tgt Ion:	43	Resp:	30524
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.5	7.4	11.2#
70	2.9	5.1	7.7#

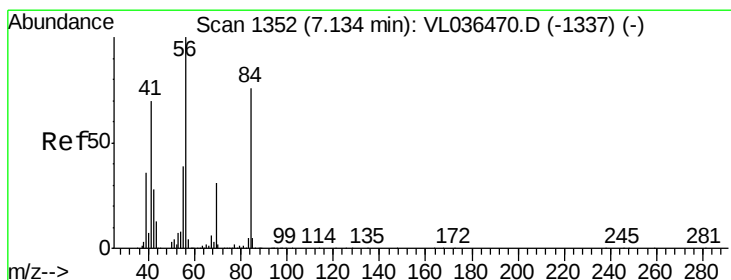
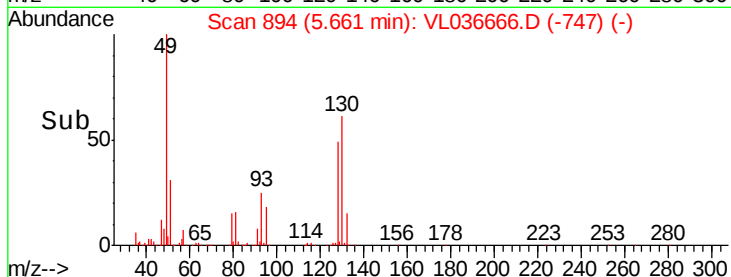
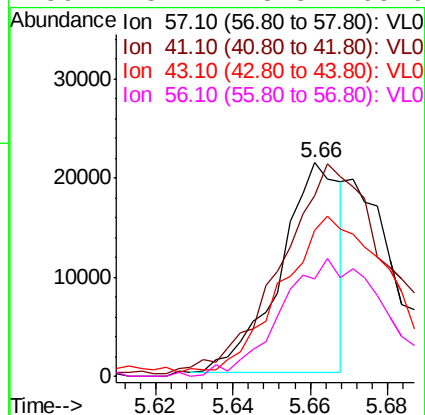
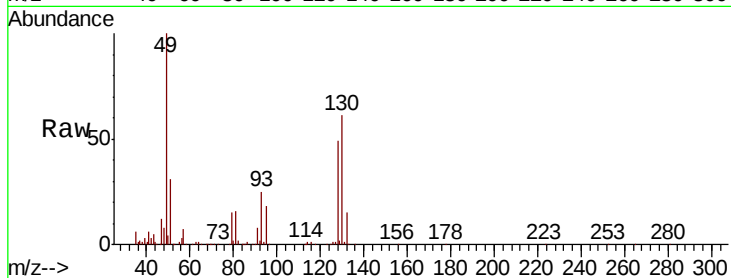




#26
Hexane
Concen: 0.176 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

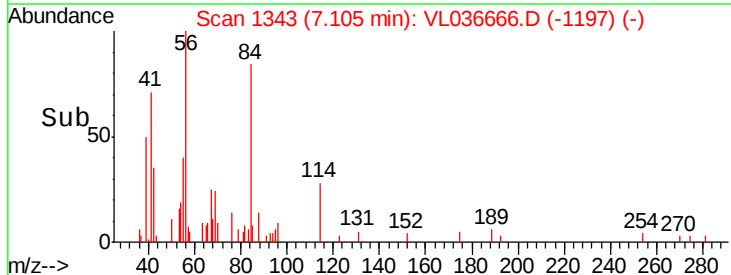
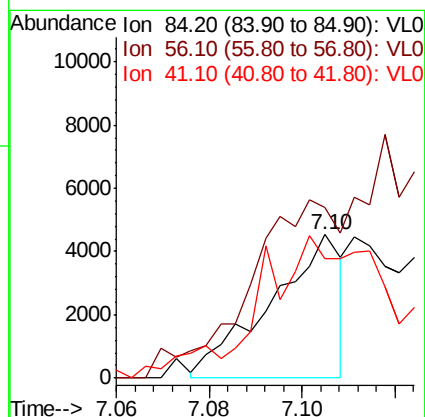
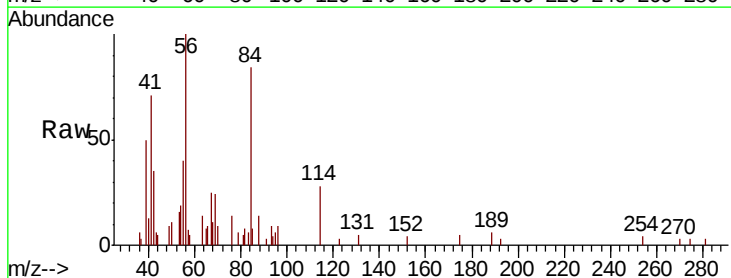
Instrument :
MSVOA_L
ClientSampleId :

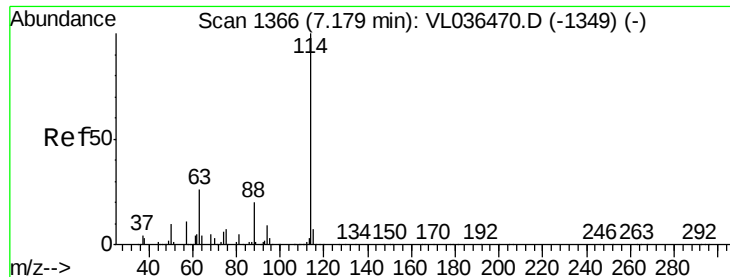
Tot Ion: 57 Resp: 22877
Ion Ratio Lower Upper
57 100
41 213.4 77.2 115.8#
43 157.9 173.8 260.6#
56 113.7 43.8 65.6#



#30
Cyclohexane
Concen: 0.046 ppbv
RT: 7.10 min Scan# 1343
Delta R.T. -0.03 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

Tgt Ion: 84 Resp: 4802
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 180.4 75.3 112.9#

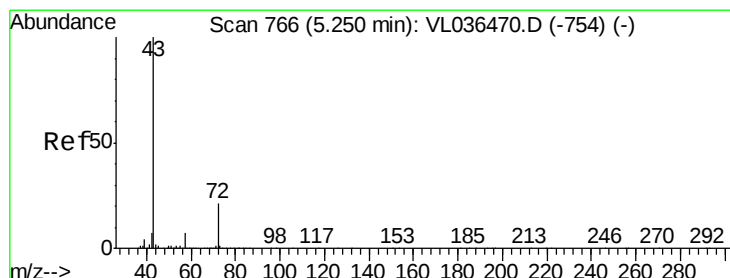
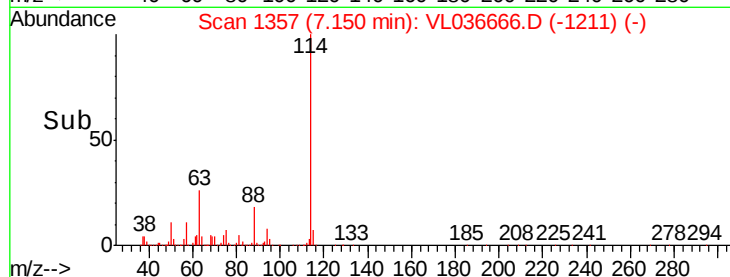
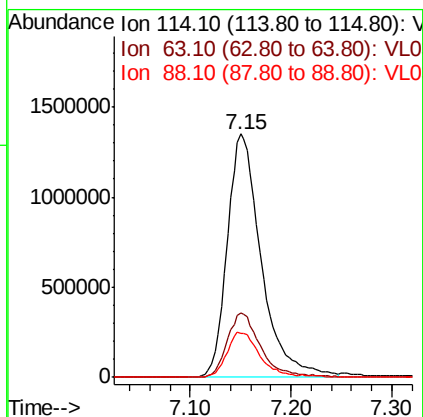
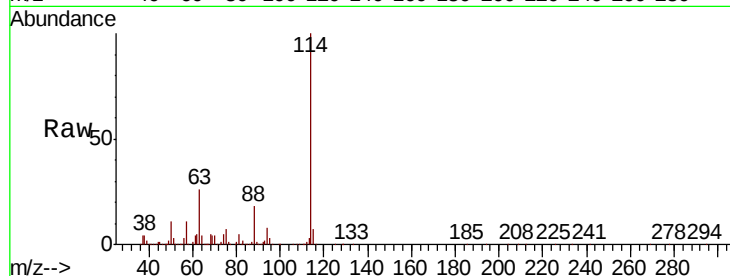




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

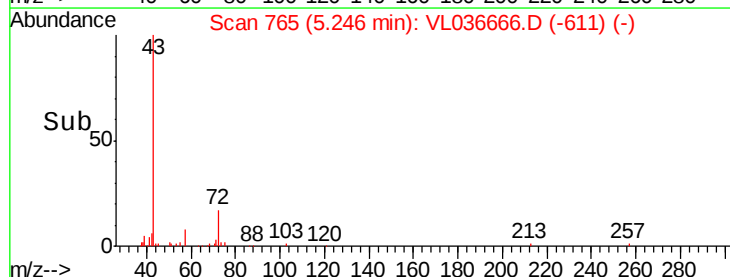
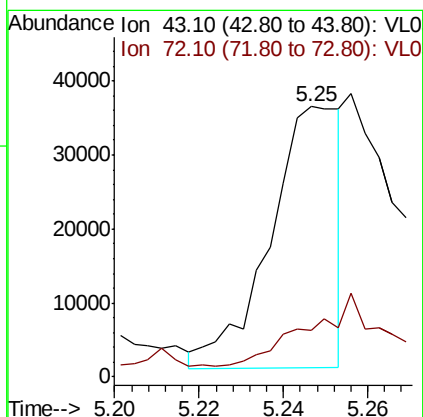
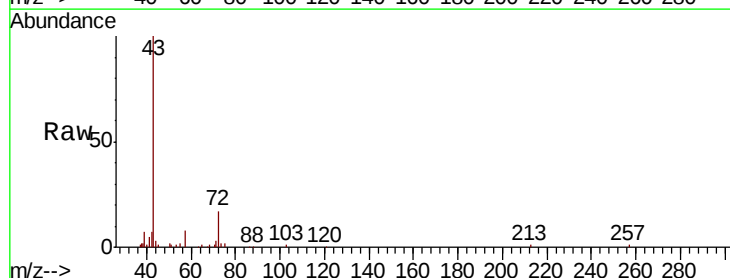
Instrument :
 MSVOA_L
 ClientSampleId :

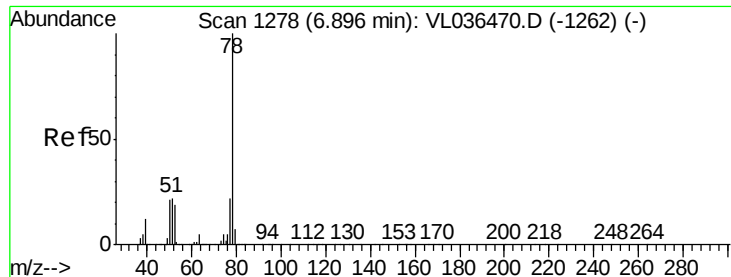
Tot Ion:114 Resp: 3170871
 Ion Ratio Lower Upper
 114 100
 63 26.5 22.4 33.6
 88 18.8 15.4 23.0



#34
 2-Butanone
 Concen: 0.263 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

Tgt Ion: 43 Resp: 40679
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#





#36

Benzene

Concen: 0.106 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.03 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

Instrument :

MSVOA_L

ClientSampleId :

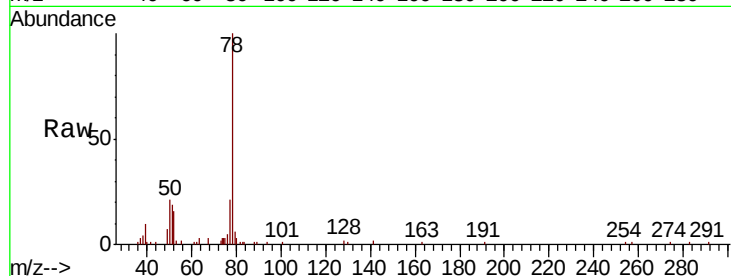
Tot Ion: 78 Resp: 30863

Ion Ratio Lower Upper

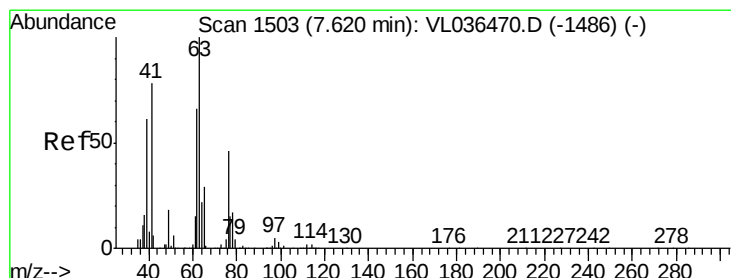
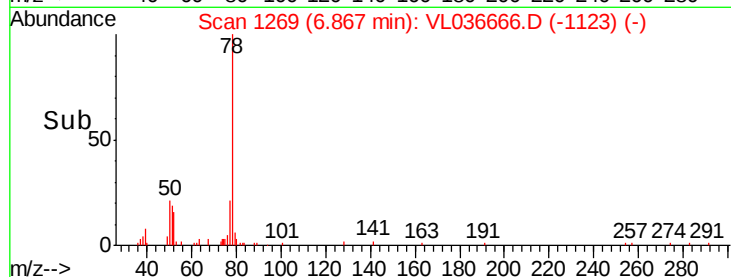
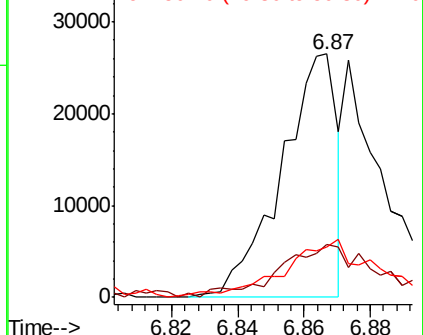
78 100

77 19.5 18.0 27.0

50 19.9 16.5 24.7



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



#39

1,2-Dichloropropane

Concen: 6.792 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.47 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

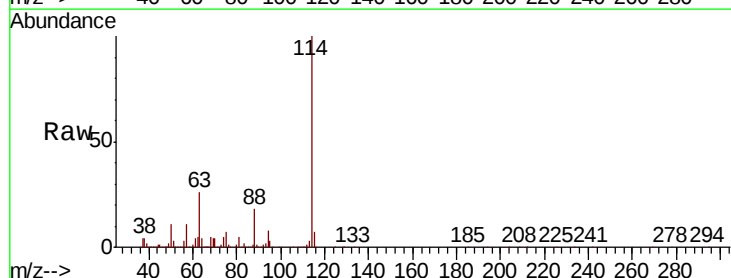
Tgt Ion: 63 Resp: 805749

Ion Ratio Lower Upper

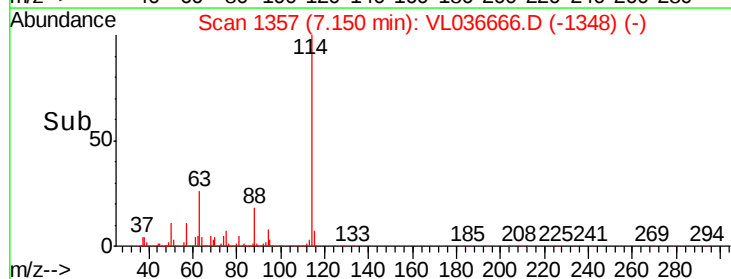
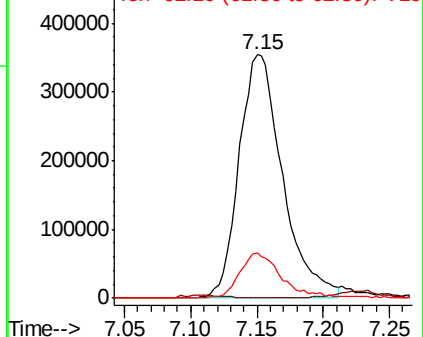
63 100

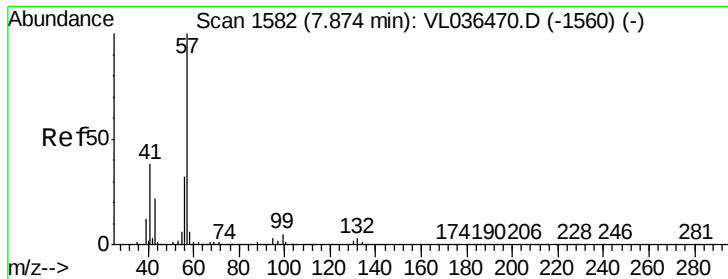
41 0.0 62.4 93.6#

62 18.3 52.8 79.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0

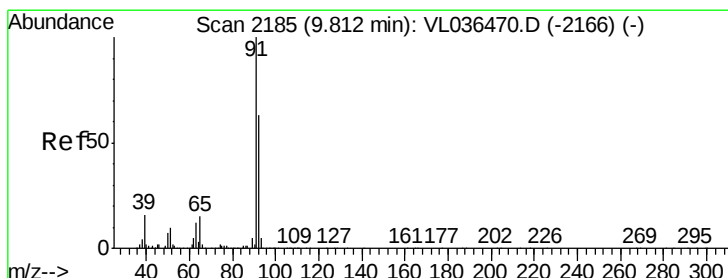
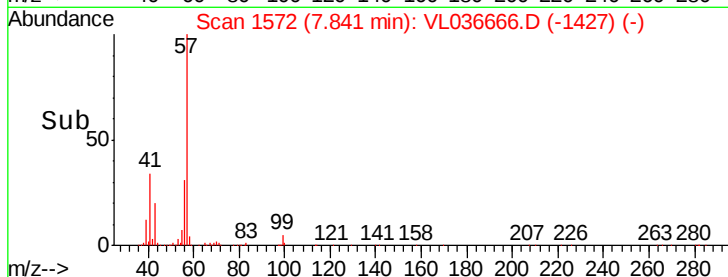
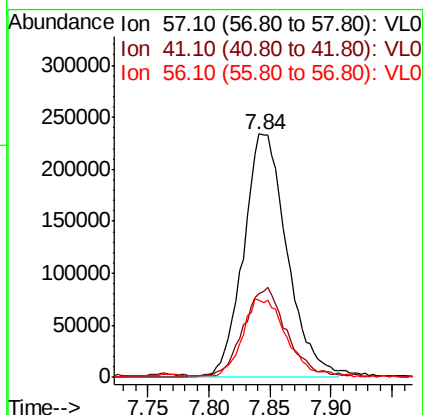
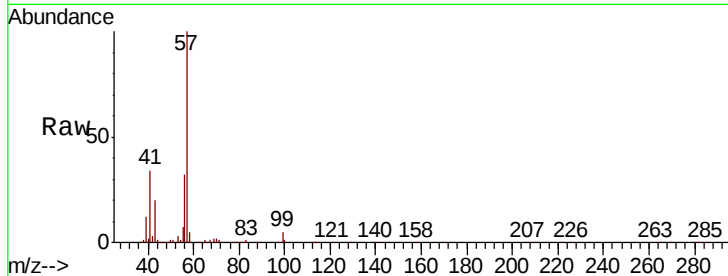




#44
 2,2,4-Trimethylpentane
 Concen: 1.112 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.03 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

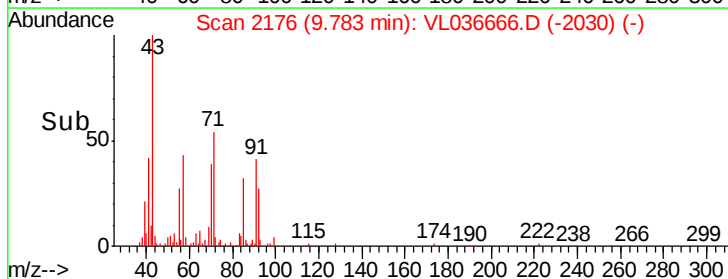
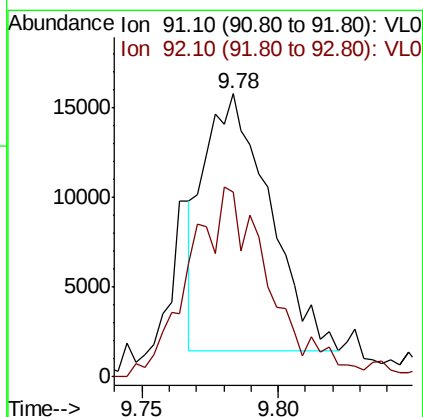
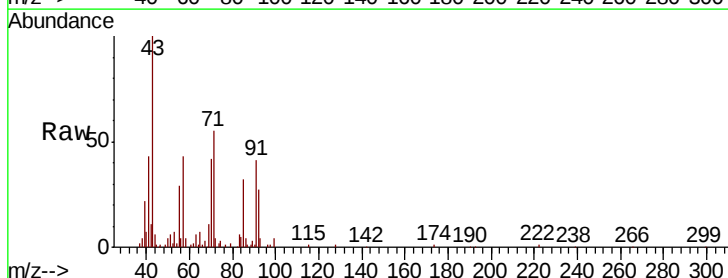
Instrument :
 MSVOA_L
 ClientSampleId :

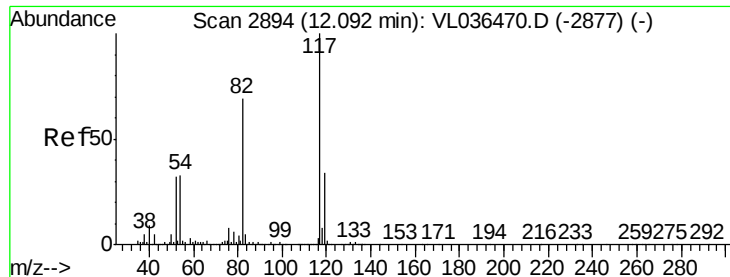
Tot Ion	57	Resp	572356
Ion Ratio	Lower	Upper	
57	100		
41	36.9	28.8	43.2
56	33.3	26.1	39.1



#53
 Toluene
 Concen: 0.077 ppbv
 RT: 9.78 min Scan# 2176
 Delta R.T. -0.03 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

Tgt Ion	91	Resp	23883
Ion Ratio	Lower	Upper	
91	100		
92	92.9	48.8	73.2#

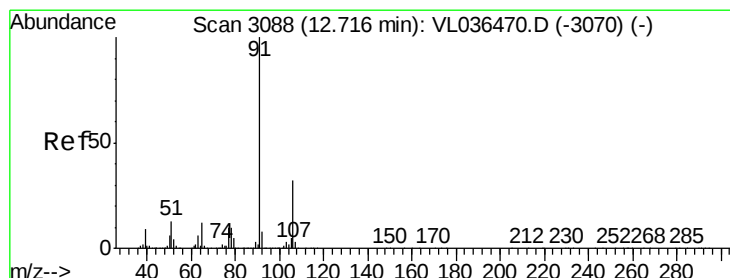
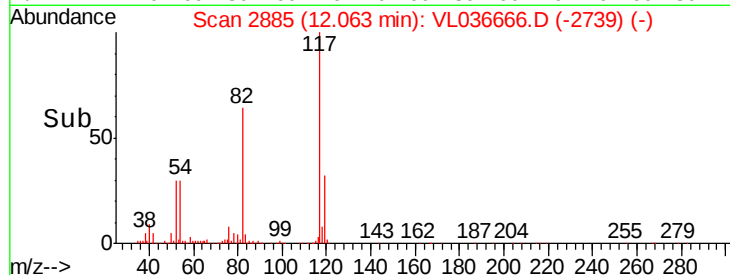
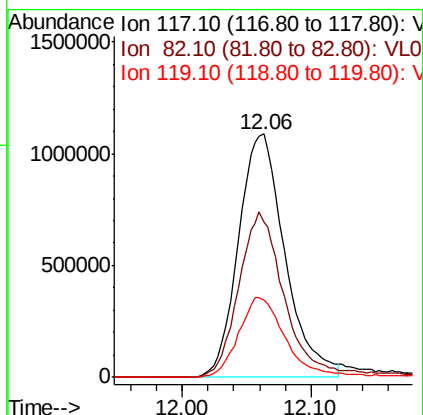
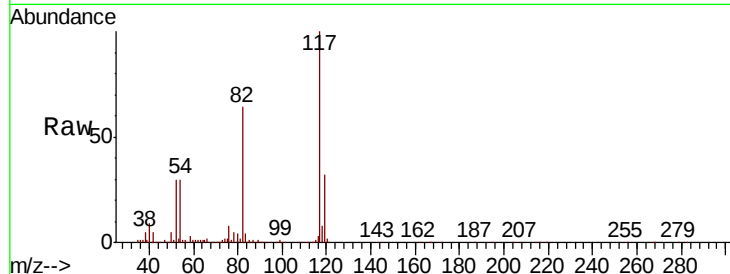




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.03 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

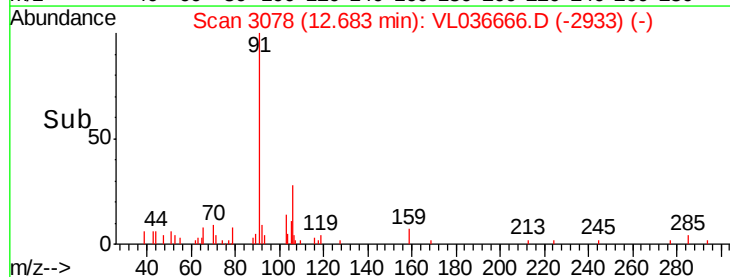
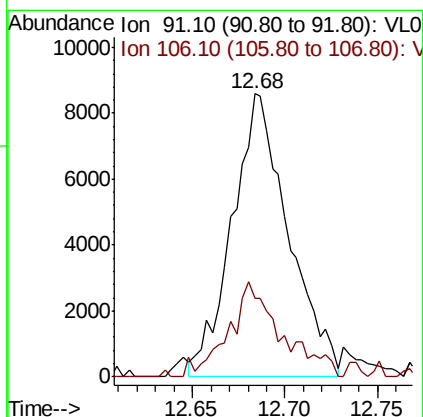
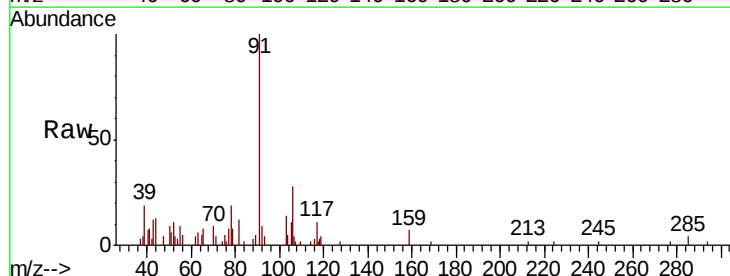
Instrument :
MSVOA_L
ClientSampled :

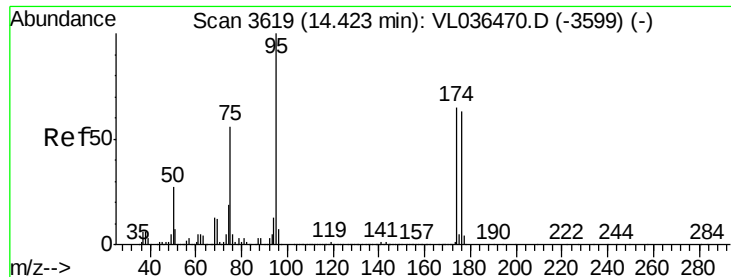
Tot Ion:117 Resp: 2729686
Ion Ratio Lower Upper
117 100
82 68.7 57.4 86.0
119 33.9 47.4 71.0#



#58
Ethyl Benzene
Concen: 0.046 ppbv
RT: 12.68 min Scan# 3078
Delta R.T. -0.03 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

Tgt Ion: 91 Resp: 18151
Ion Ratio Lower Upper
91 100
106 32.6 25.3 37.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.860 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.03 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

Instrument :

MSVOA_L

ClientSampleId :

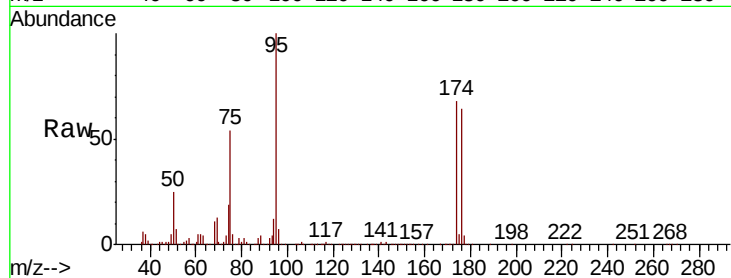
Tot Ion: 95 Resp: 2145113

Ion Ratio Lower Upper

95 100

174 73.9 51.0 76.6

175 5.8 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

