

Data File : VL036698.D
Acq On : 6 Apr 2021 11:09
Operator : SY/AP
Sample : M1834-05DL2 120X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV5DL2

Quant Time: Apr 06 11:46:23 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1236755	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3134794	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2845009	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2231578	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds					Qvalue	
9) Propene	3.02	41	45768	0.621	ppbv	89
10) Heptane	8.12	43	208942	1.113	ppbv #	28
13) Ethanol	3.61	45	1324	0.151	ppbv #	34
15) Acetone	3.87	43	1210223	9.942	ppbv #	78
16) 1,3-Butadiene	3.31	39	57567	0.679	ppbv #	21
20) Methylene Chloride	4.35	84	12546	0.220	ppbv #	92
21) Allyl Chloride	4.37	41	57696	0.595	ppbv #	39
23) Vinyl Acetate	5.06	43	354941	1.705	ppbv #	1
25) Ethyl Acetate	5.69	43	210901	0.729	ppbv #	79
26) Hexane	5.69	57	294022	2.189	ppbv #	45
30) Cyclohexane	7.13	84	41978	0.385	ppbv #	1
34) 2-Butanone	5.25	43	874686	5.716	ppbv	96
36) Benzene	6.89	78	168378	0.582	ppbv #	89
39) 1,2-Dichloropropane	7.24	63	8741	0.075	ppbv #	1
42) Bromodichloromethane	7.79	83	15756	0.068	ppbv #	24
43) Methyl Methacrylate	7.99	69	2965	0.031	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	5521034	10.850	ppbv	97
50) 4-Methyl-2-Pentanone	9.04	43	254550	1.150	ppbv #	48
51) 2-Hexanone	10.12	43	17628	0.158	ppbv #	30
53) Toluene	9.81	91	136638	0.444	ppbv	97
58) Ethyl Benzene	12.71	91	130143	0.314	ppbv	98
60) o-Xylene	13.70	91	23363	0.067	ppbv	66
80) Naphthalene,2-methyl-	24.98	142	2386	0.054	ppbv #	48

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

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Sample : M1834-05DL2 120X

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

SV5DL2

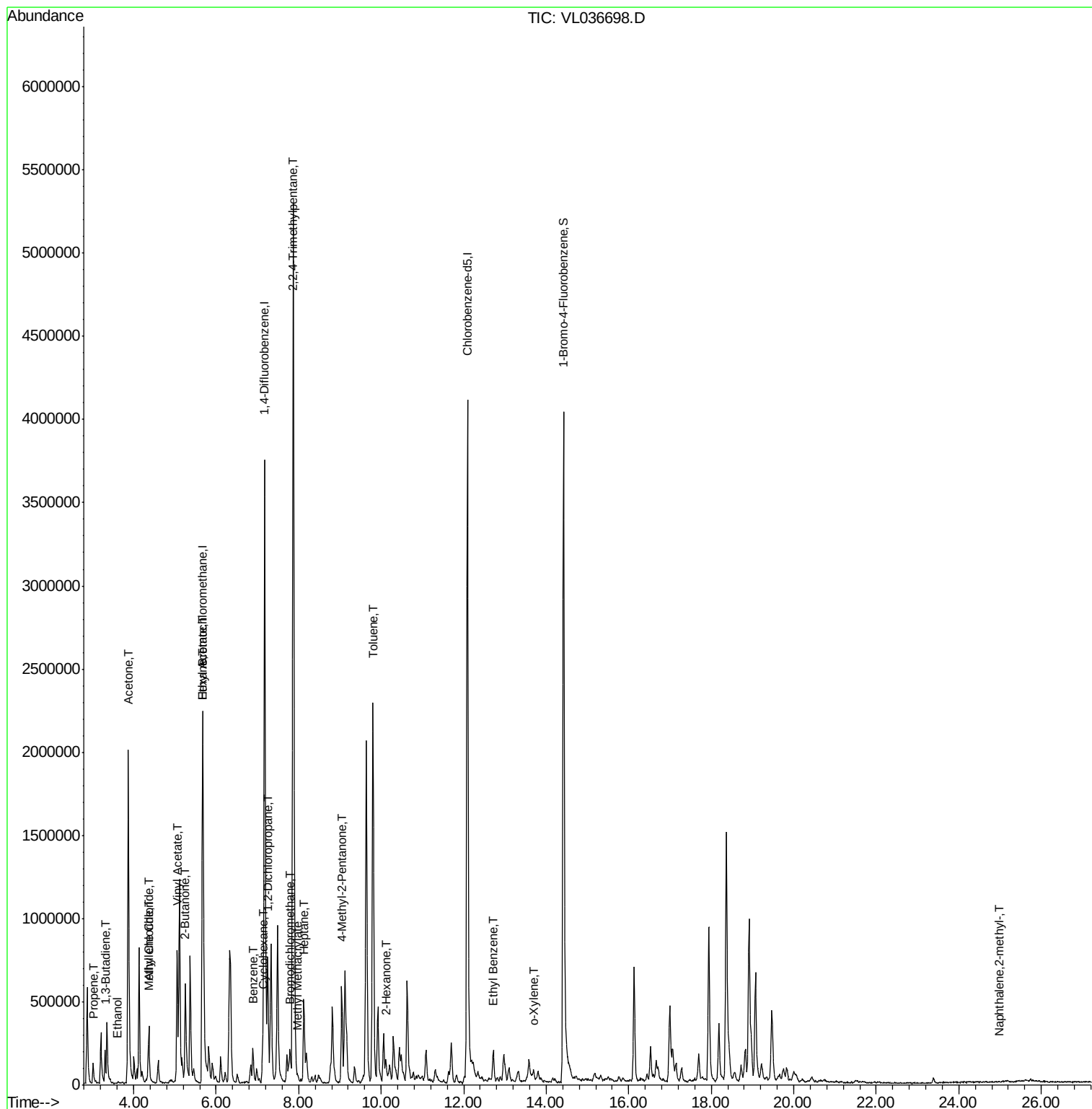
Quant Time: Apr 06 11:46:23 2021

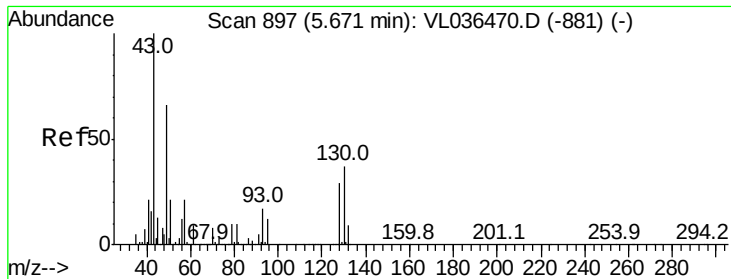
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

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MSVOA_L

ClientSampleId :

SV5DL2

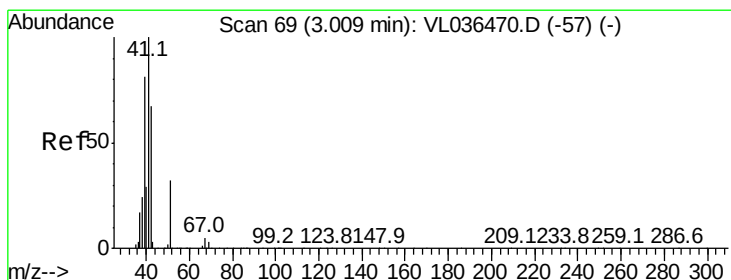
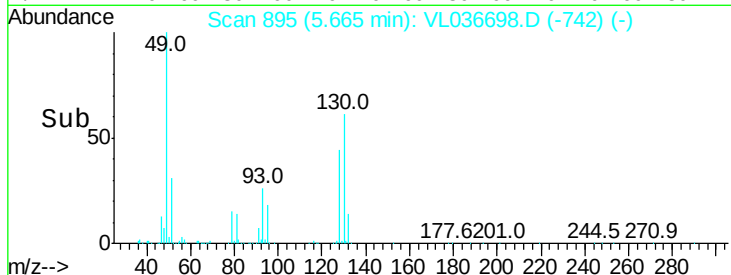
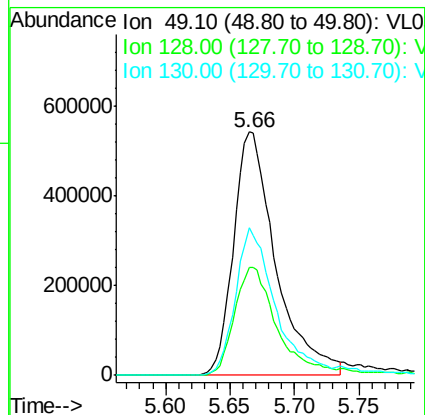
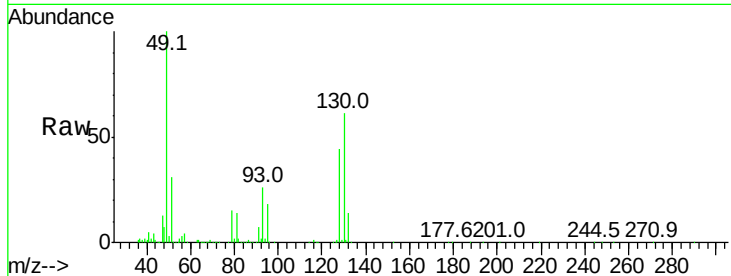
Tgt Ion: 49 Resp: 1236755

Ion Ratio Lower Upper

49 100

128 47.7 23.5 70.6

130 61.4 29.1 87.4



#9

Propene

Concen: 0.621 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036698.D

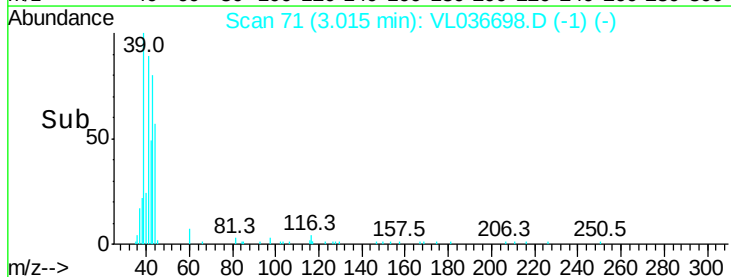
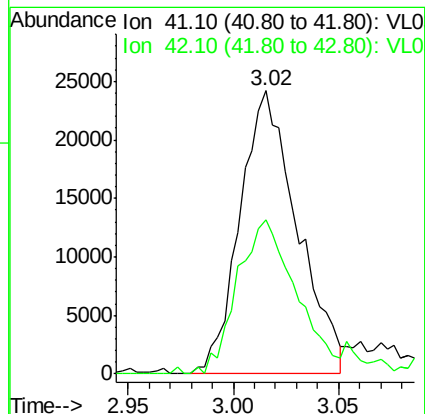
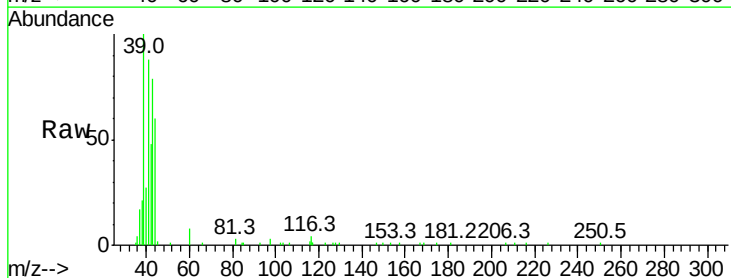
Acq: 6 Apr 2021 11:09

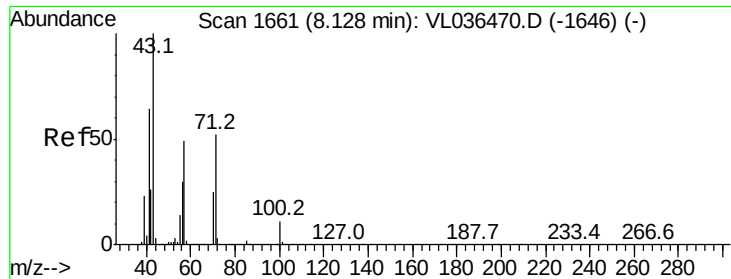
Tgt Ion: 41 Resp: 45768

Ion Ratio Lower Upper

41 100

42 61.9 57.0 85.4

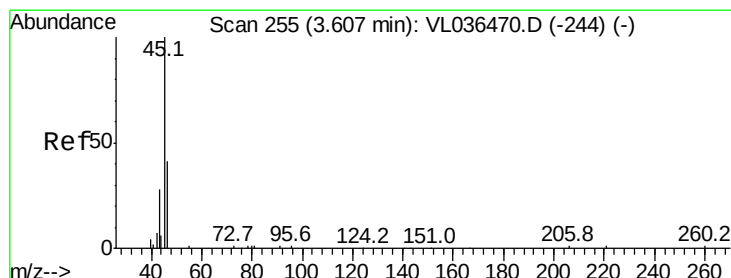
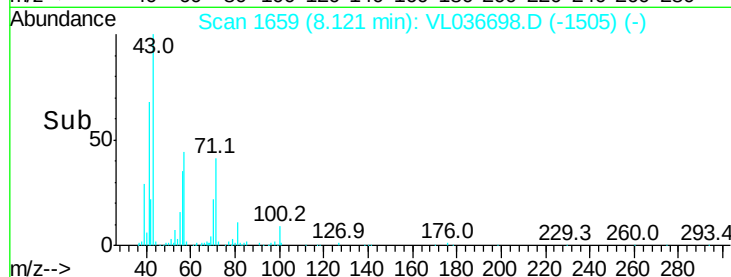
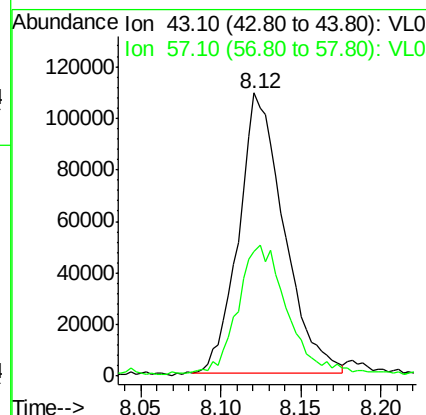
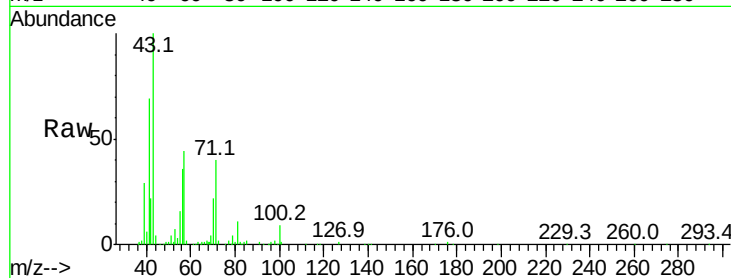




#10
 Heptane
 Concen: 1.113 ppbv
 RT: 8.12 min Scan# 1659
 Delta R.T. -0.01 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

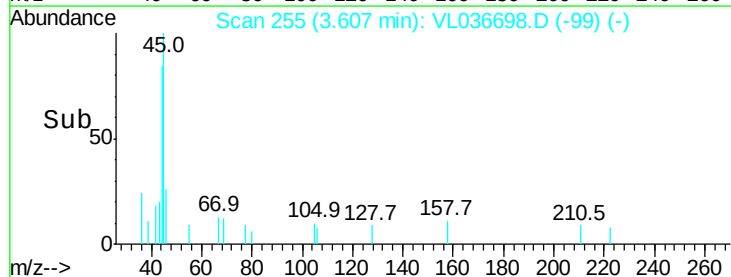
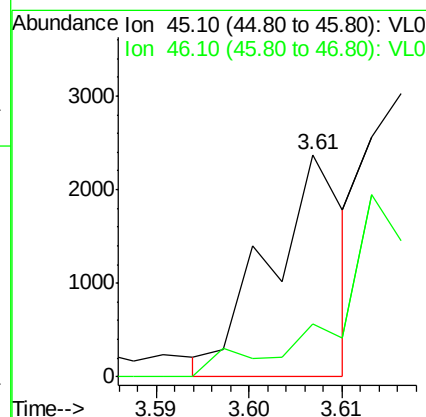
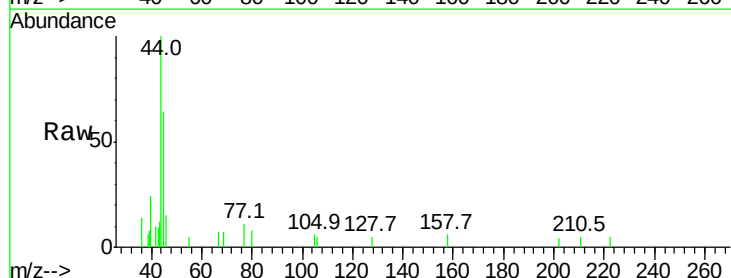
Instrument :
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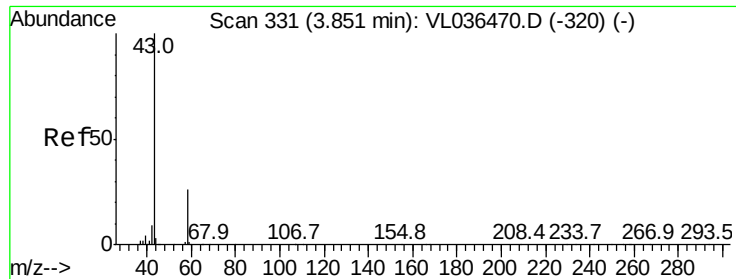
Tgt Ion: 43 Resp: 208942
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.0 58.6#



#13
 Ethanol
 Concen: 0.151 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

Tgt Ion: 45 Resp: 1324
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.6 66.2#





#15

Acetone

Concen: 9.942 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

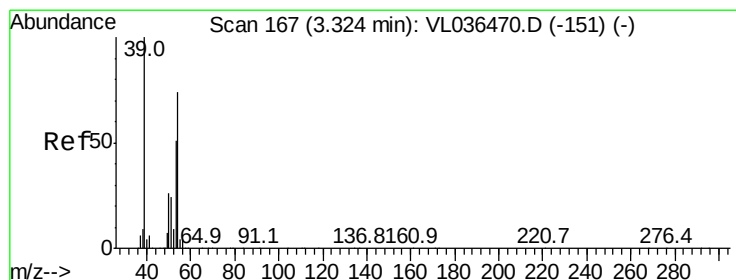
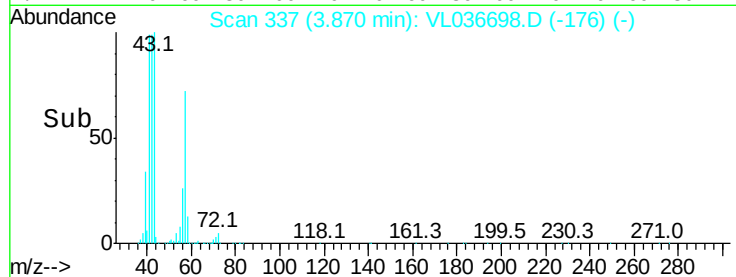
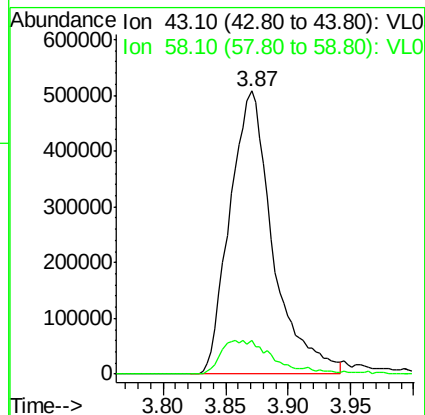
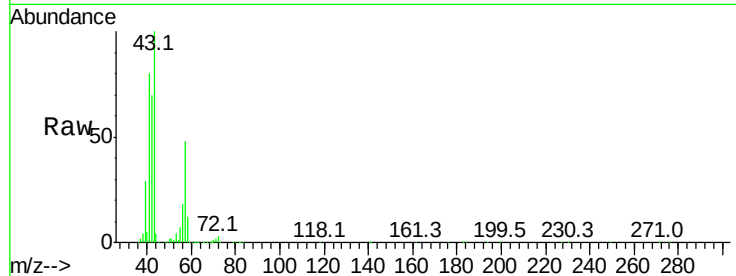
SV5DL2

Tgt Ion: 43 Resp: 1210223

Ion Ratio Lower Upper

43 100

58 15.2 21.2 31.8#



#16

1,3-Butadiene

Concen: 0.679 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL036698.D

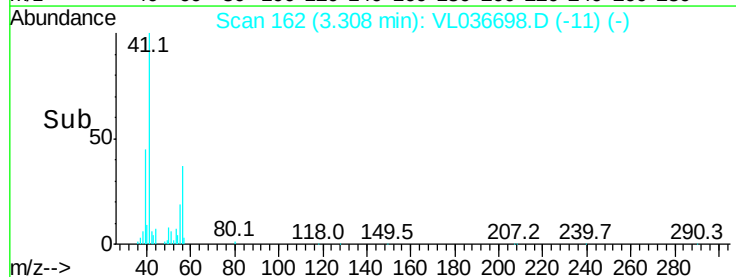
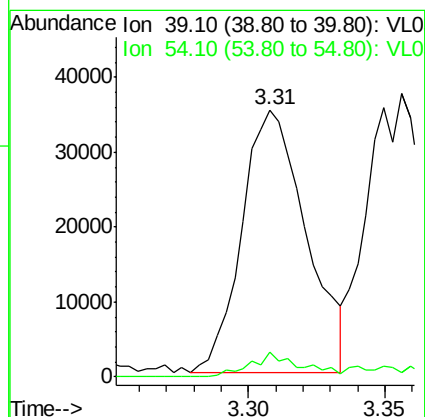
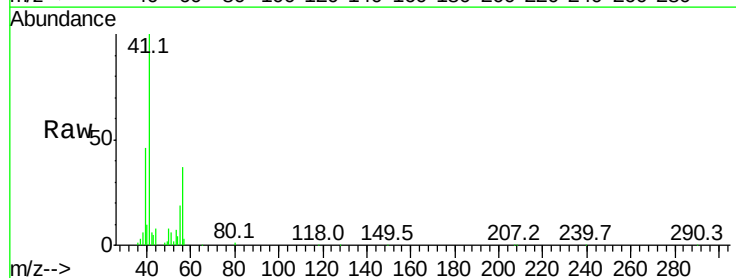
Acq: 6 Apr 2021 11:09

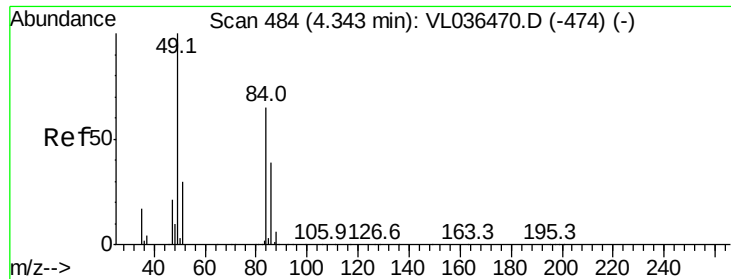
Tgt Ion: 39 Resp: 57567

Ion Ratio Lower Upper

39 100

54 7.1 58.8 88.2#

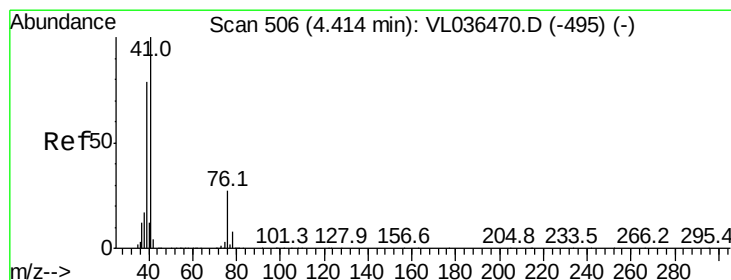
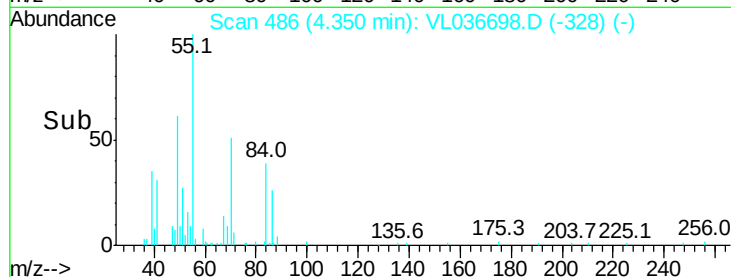
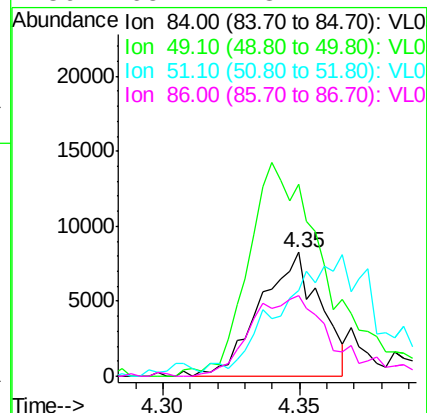
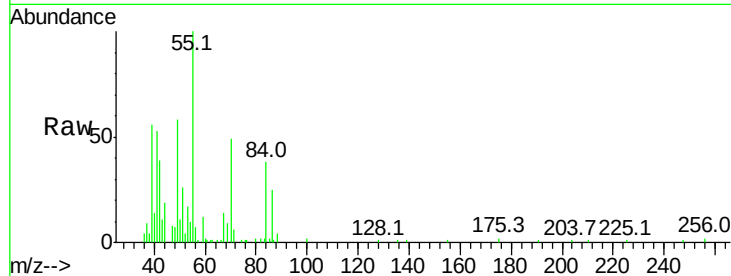




#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

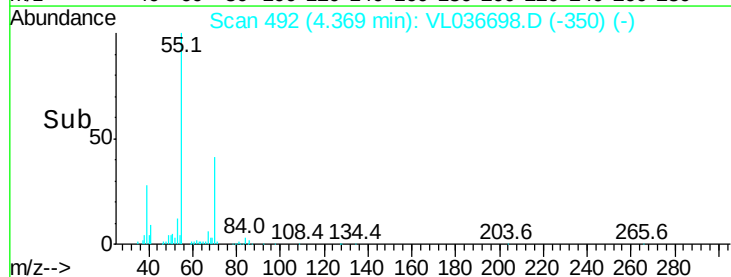
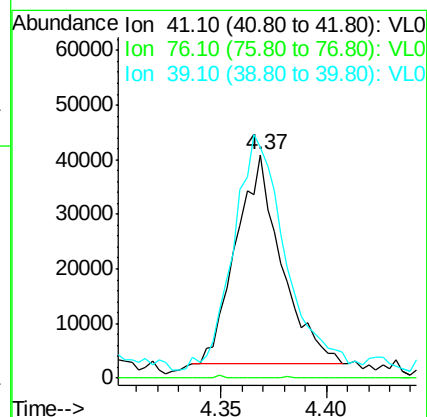
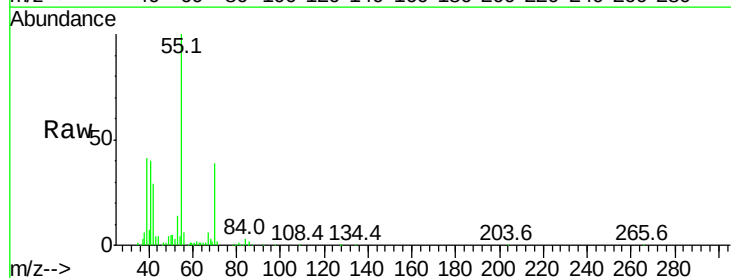
Instrument :
MSVOA_L
ClientSampleId :
SV5DL2

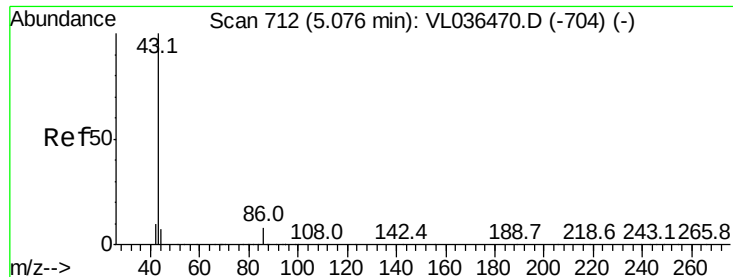
Tgt Ion: 84 Resp: 12546
Ion Ratio Lower Upper
84 100
49 148.5 122.9 184.3
51 63.1 36.9 55.3#
86 65.2 48.2 72.4



#21
Allyl Chloride
Concen: 0.595 ppbv
RT: 4.37 min Scan# 492
Delta R.T. -0.05 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Tgt Ion: 41 Resp: 57696
Ion Ratio Lower Upper
41 100
76 0.3 22.9 34.3#
39 142.2 67.3 100.9#





#23

Vinyl Acetate

Concen: 1.705 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.02 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

SV5DL2

Tgt Ion: 43 Resp: 354941

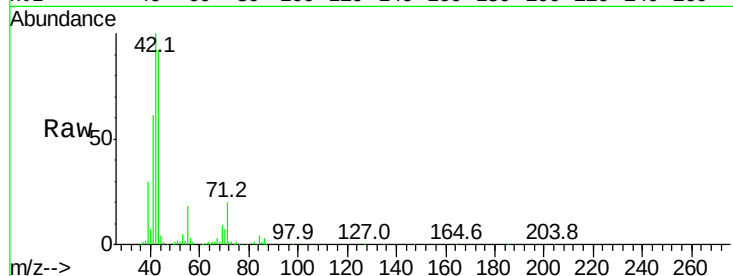
Ion Ratio Lower Upper

43 100

86 3.7 5.4 8.0#

42 108.9 8.5 12.7#

44 2.2 4.6 7.0#

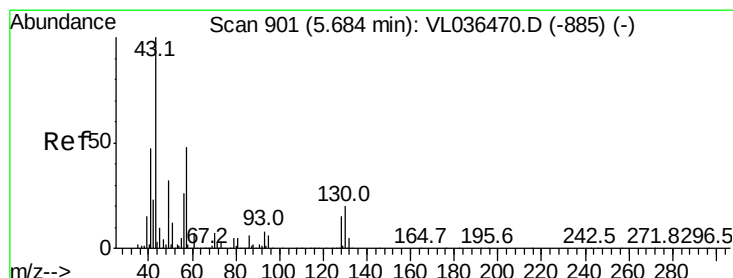
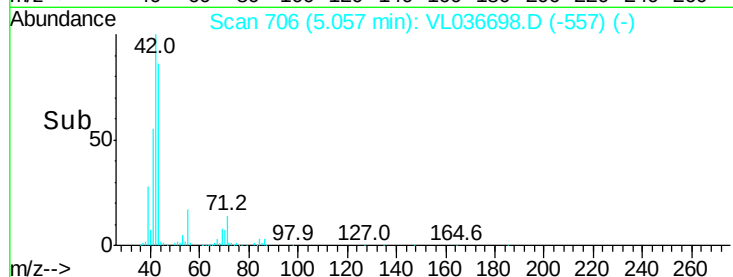
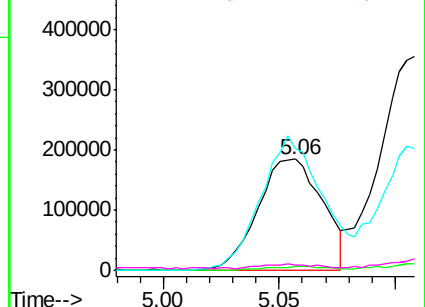


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.729 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Tgt Ion: 43 Resp: 210901

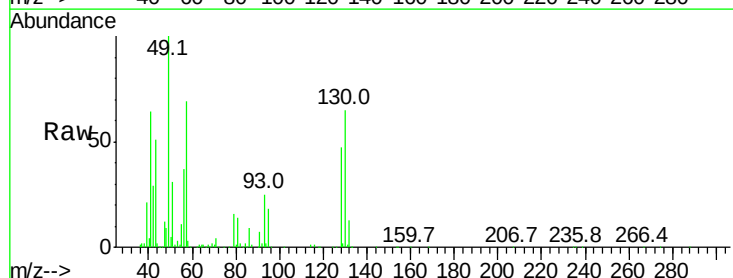
Ion Ratio Lower Upper

43 100

45 1.1 7.9 11.9#

61 0.3 7.4 11.2#

70 2.1 5.1 7.7#

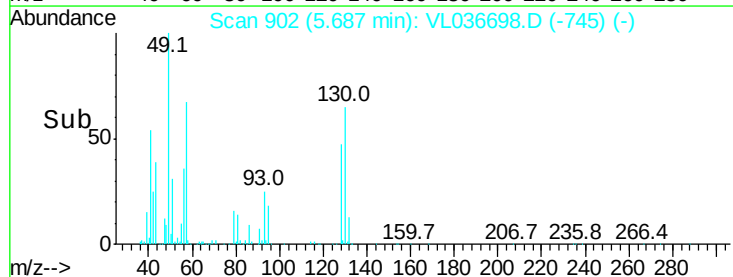
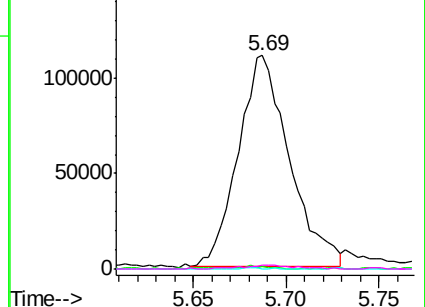


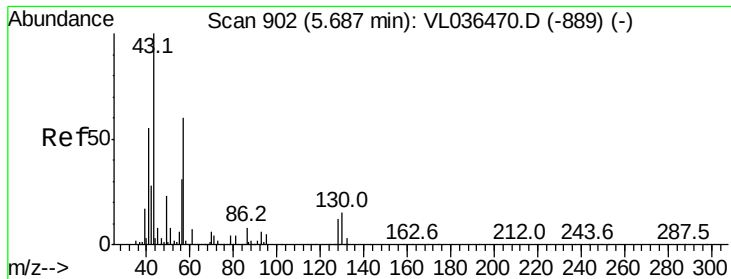
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

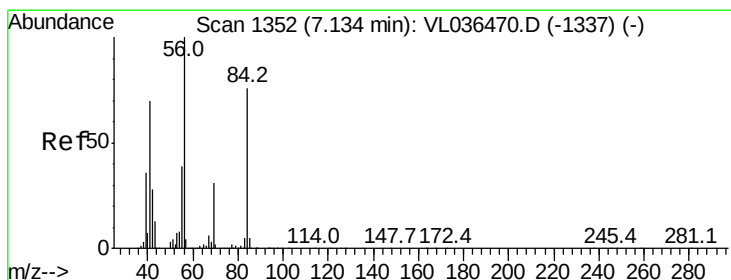
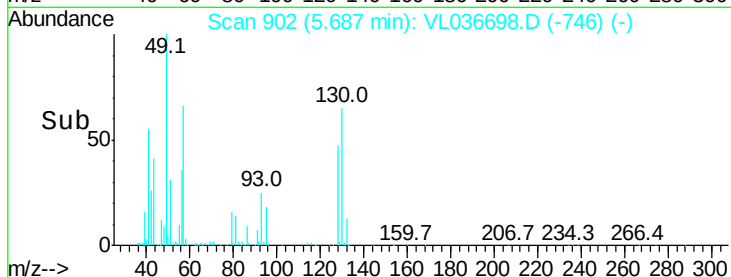
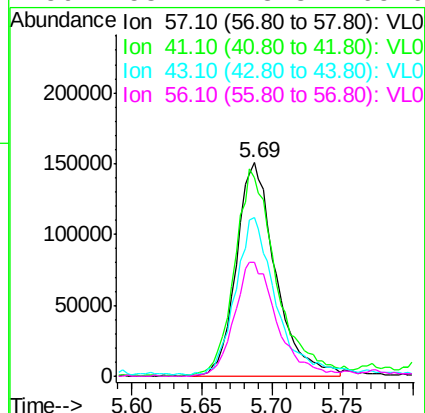
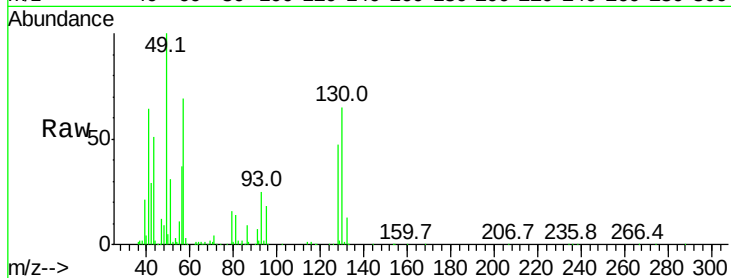




#26
Hexane
Concen: 2.189 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

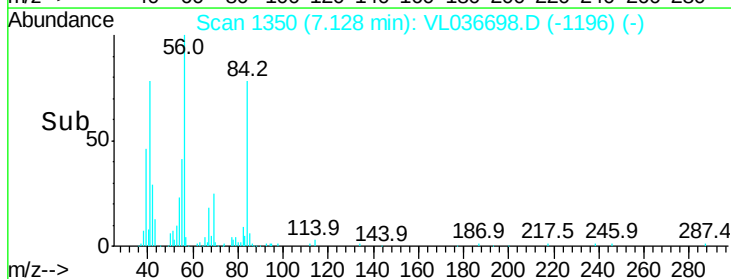
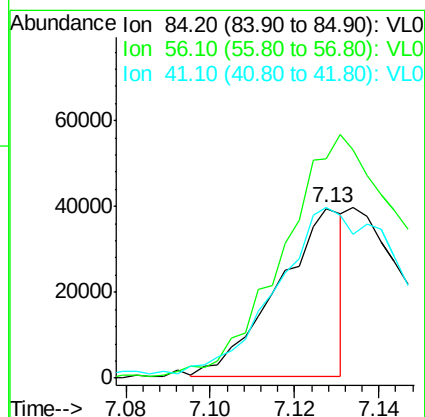
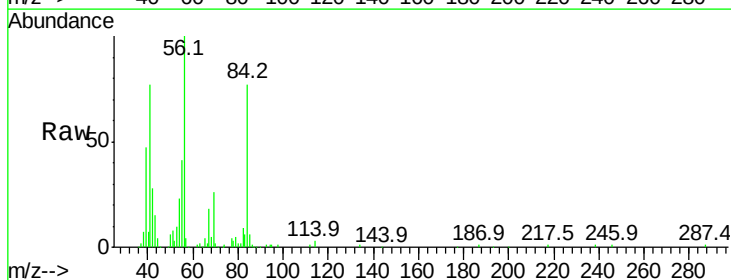
Instrument :
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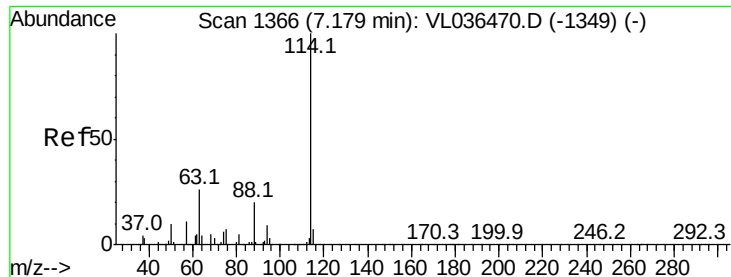
Tgt Ion: 57 Resp: 294022
Ion Ratio Lower Upper
57 100
41 103.6 77.2 115.8
43 75.1 173.8 260.6#
56 58.2 43.8 65.6



#30
Cyclohexane
Concen: 0.385 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Tgt Ion: 84 Resp: 41978
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 206.3 75.3 112.9#

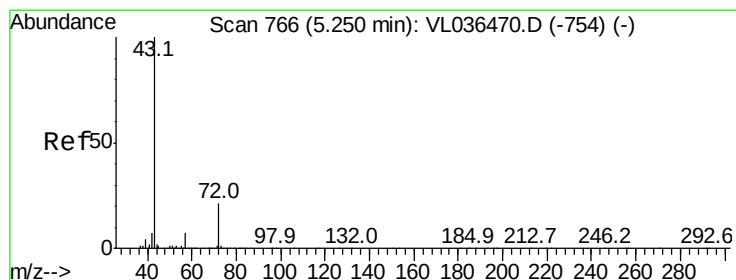
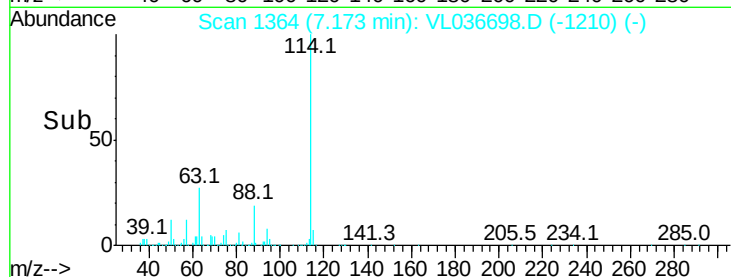
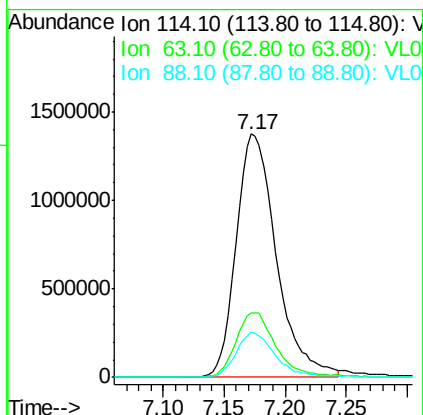
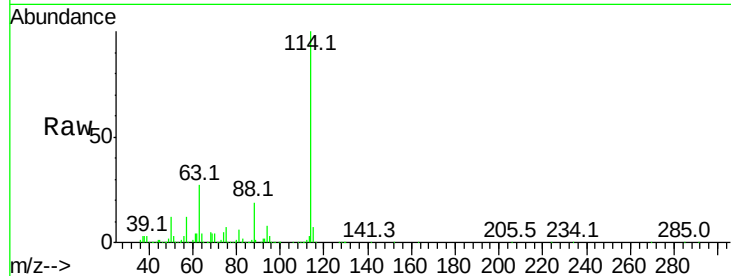




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

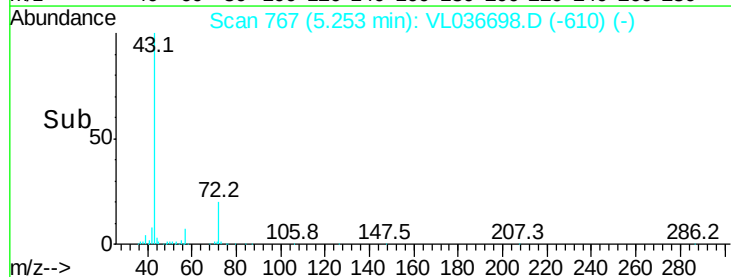
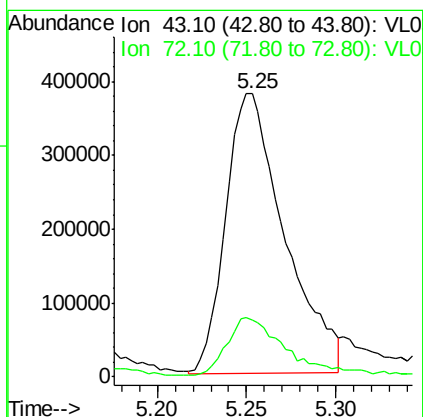
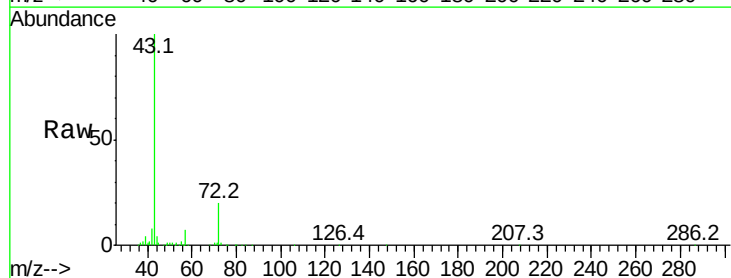
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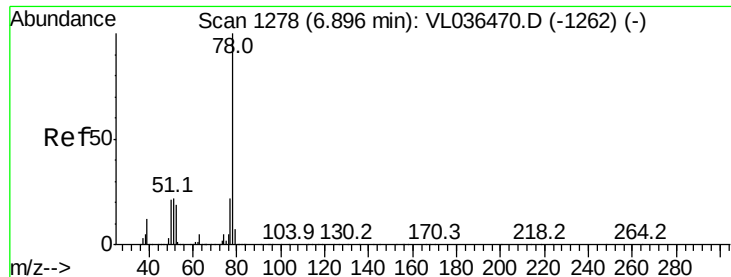
Tgt Ion:114 Resp: 3134794
 Ion Ratio Lower Upper
 114 100
 63 26.9 22.4 33.6
 88 18.5 15.4 23.0



#34
 2-Butanone
 Concen: 5.716 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

Tgt Ion: 43 Resp: 874686
 Ion Ratio Lower Upper
 43 100
 72 23.0 17.0 25.6





#36

Benzene

Concen: 0.582 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

SV5DL2

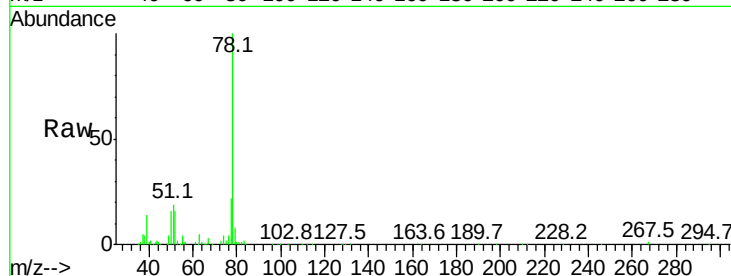
Tgt Ion: 78 Resp: 168378

Ion Ratio Lower Upper

78 100

77 19.5 18.0 27.0

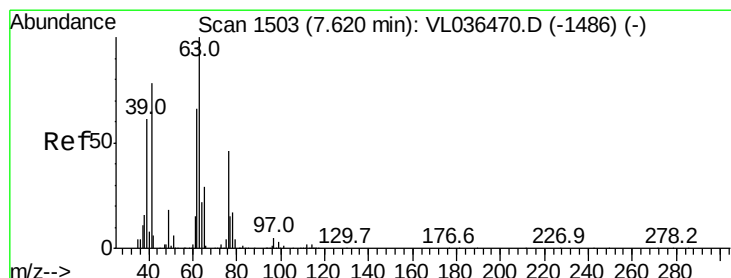
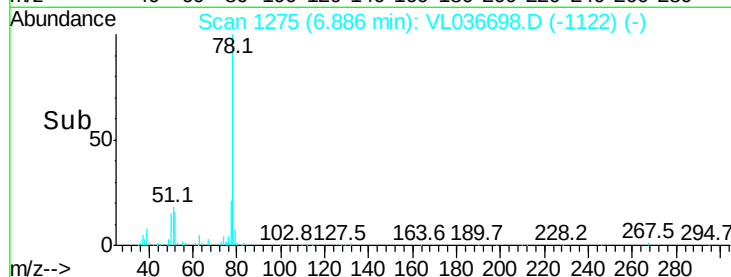
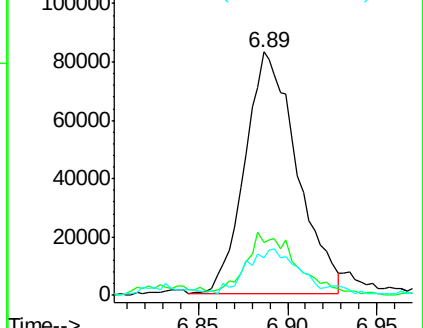
50 13.3 16.5 24.7#



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: 0.075 ppbv

RT: 7.24 min Scan# 1385

Delta R.T. -0.38 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

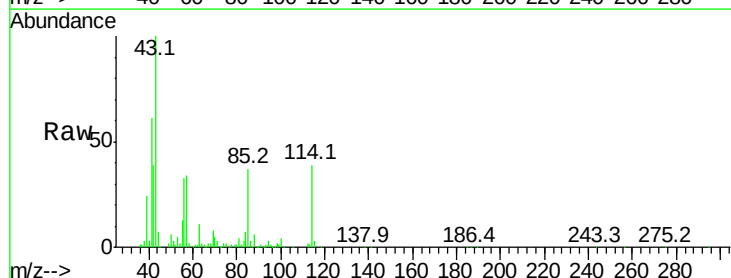
Tgt Ion: 63 Resp: 8741

Ion Ratio Lower Upper

63 100

41 426.1 62.4 93.6#

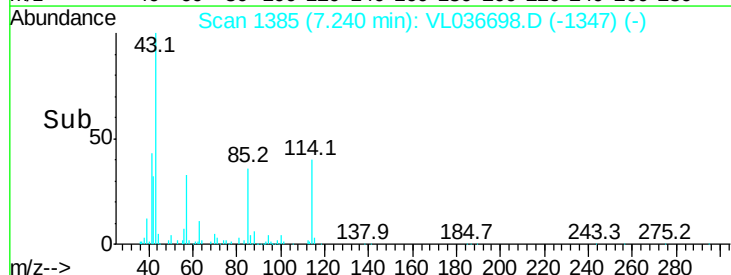
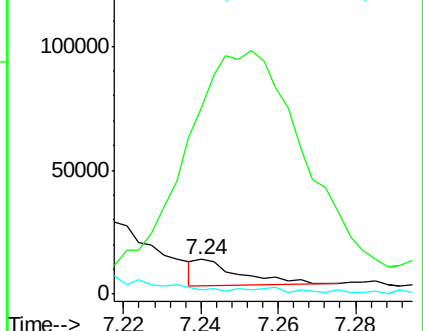
62 0.9 52.8 79.2#

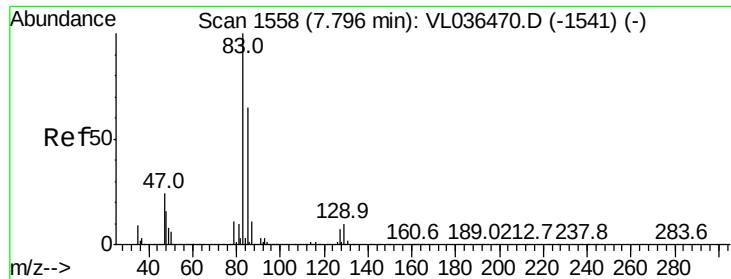


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.068 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

SV5DL2

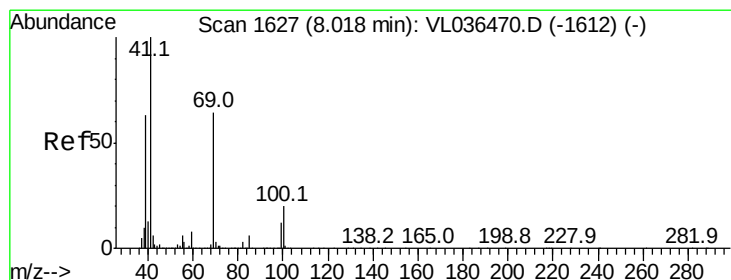
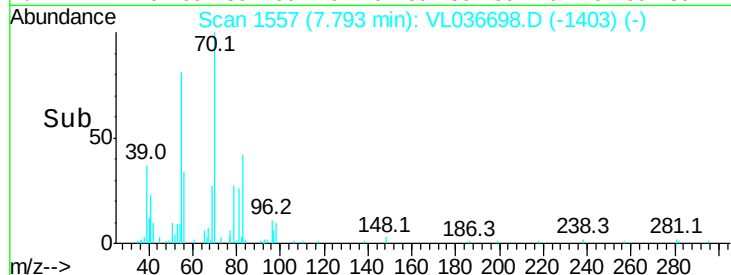
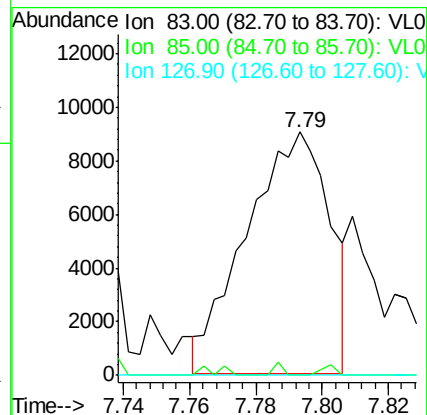
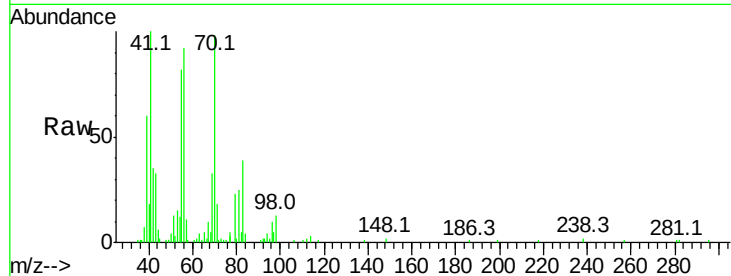
Tgt Ion: 83 Resp: 15756

Ion Ratio Lower Upper

83 100

85 0.0 51.8 77.6#

127 0.0 5.8 8.8#



#43

Methyl Methacrylate

Concen: 0.031 ppbv

RT: 7.99 min Scan# 1617

Delta R.T. -0.03 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

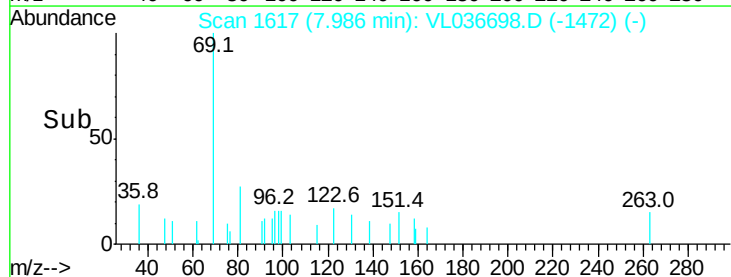
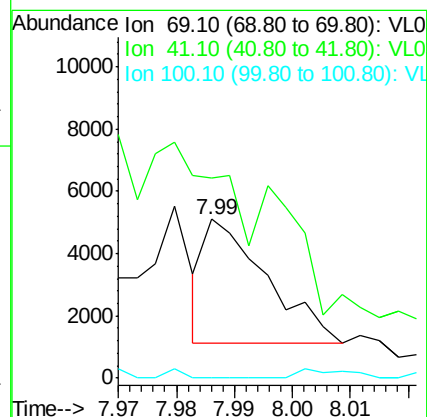
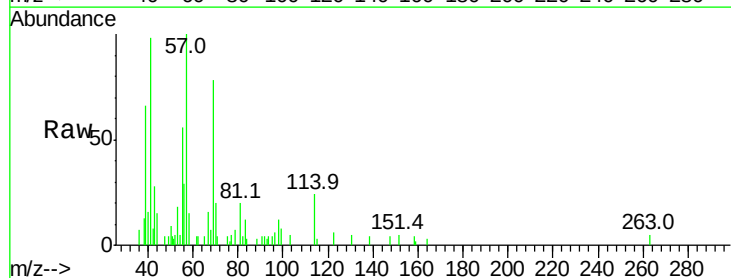
Tgt Ion: 69 Resp: 2965

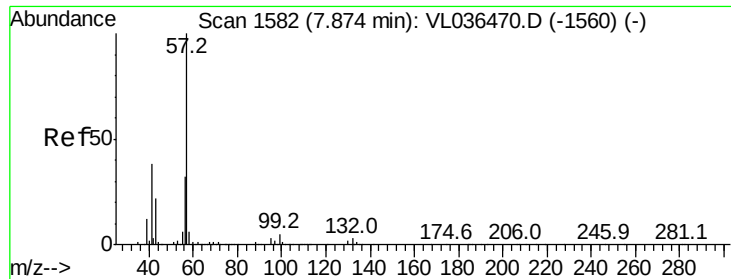
Ion Ratio Lower Upper

69 100

41 0.0 126.8 190.2#

100 0.0 24.9 37.3#



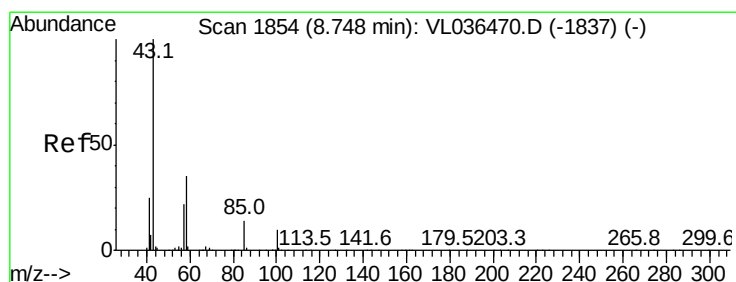
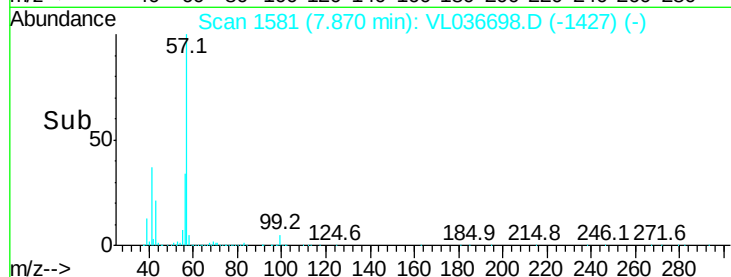
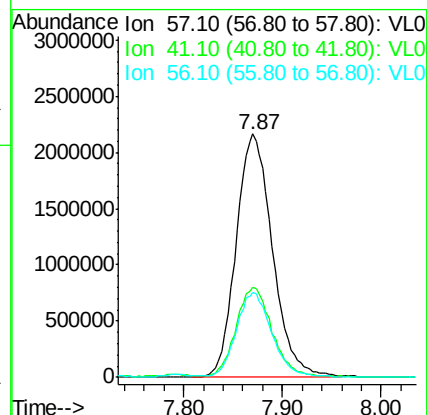
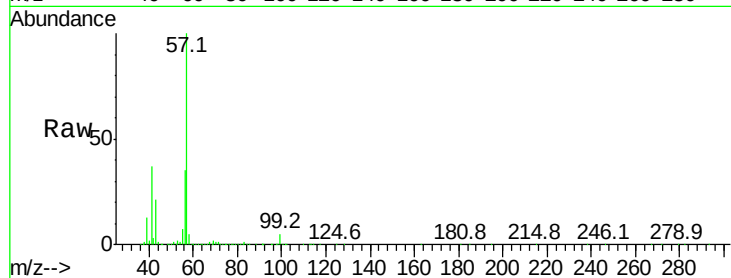


#44
 2,2,4-Trimethylpentane
 Concen: 10.850 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

Instrument :
 MSVOA_L
 ClientSampleID :
 SV5DL2

Tgt Ion: 57 Resp: 5521034

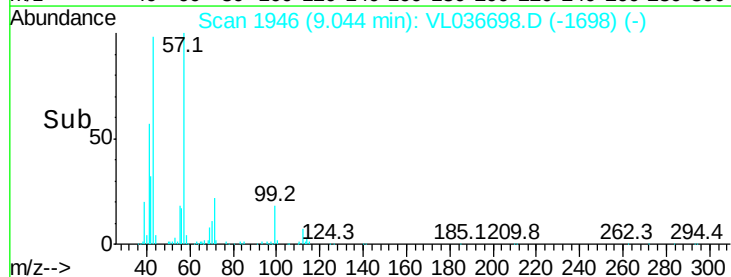
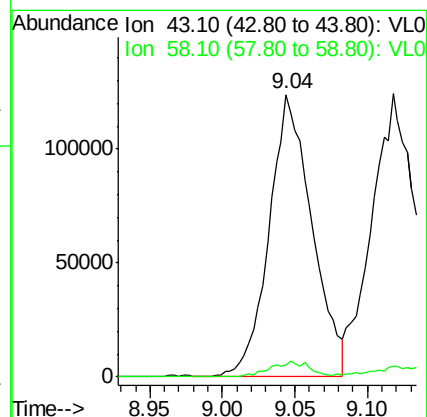
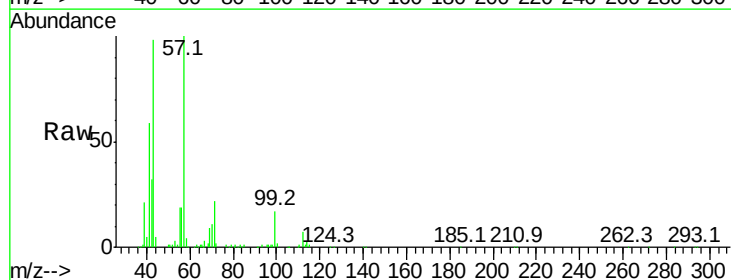
Ion	Ratio	Lower	Upper
57	100		
41	37.3	28.8	43.2
56	34.3	26.1	39.1

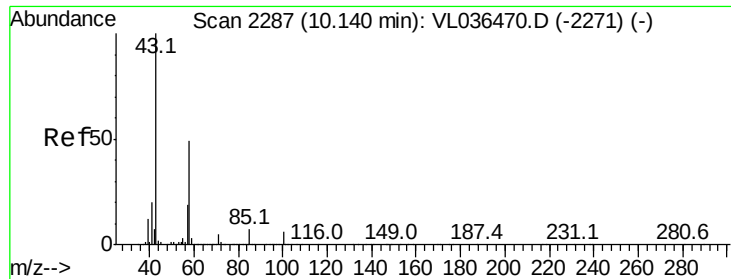


#50
 4-Methyl-2-Pentanone
 Concen: 1.150 ppbv
 RT: 9.04 min Scan# 1946
 Delta R.T. 0.30 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

Tgt Ion: 43 Resp: 254550

Ion	Ratio	Lower	Upper
43	100		
58	5.2	28.2	42.2#





#51

2-Hexanone

Concen: 0.158 ppbv

RT: 10.12 min Scan# 2280

Delta R.T. -0.02 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

SV5DL2

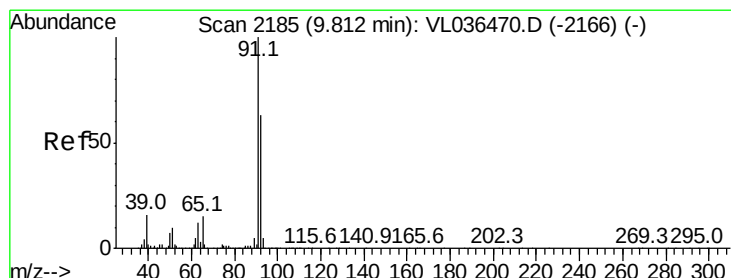
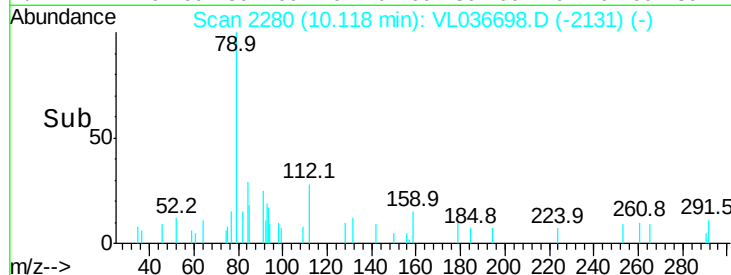
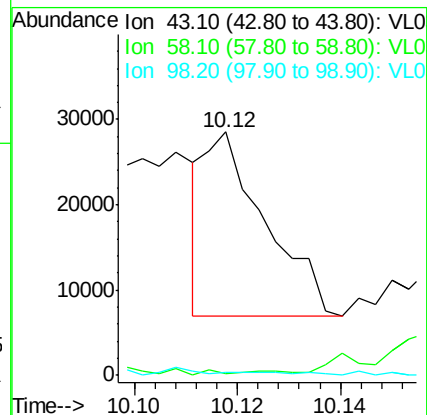
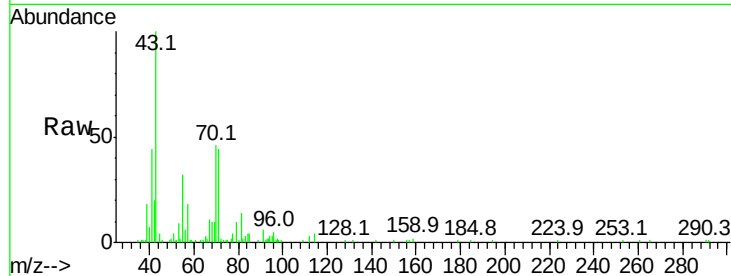
Tgt Ion: 43 Resp: 17628

Ion Ratio Lower Upper

43 100

58 0.0 37.7 56.5#

98 3.3 0.2 0.2#



#53

Toluene

Concen: 0.444 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036698.D

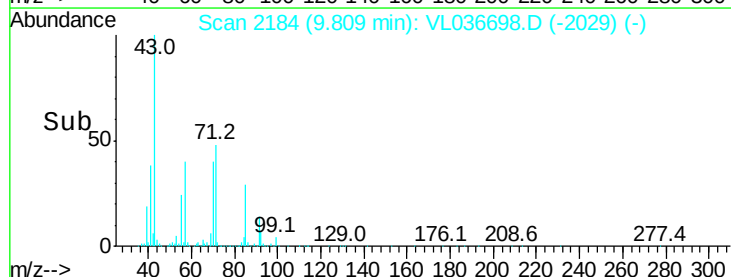
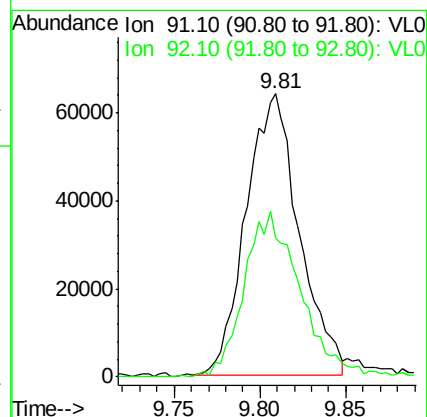
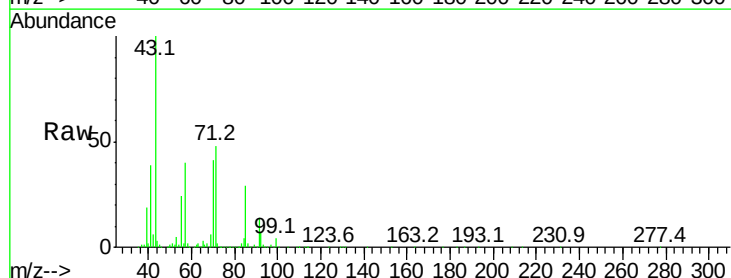
Acq: 6 Apr 2021 11:09

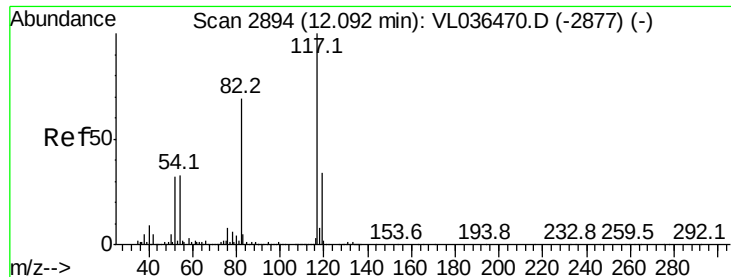
Tgt Ion: 91 Resp: 136638

Ion Ratio Lower Upper

91 100

92 63.0 48.8 73.2

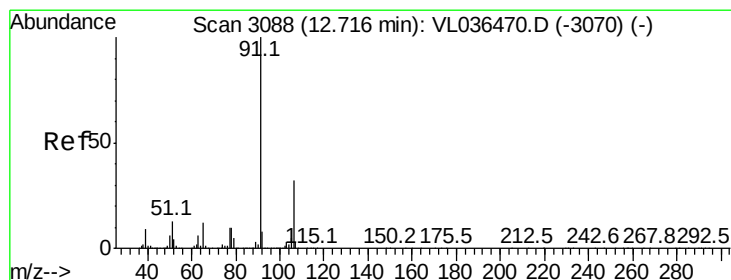
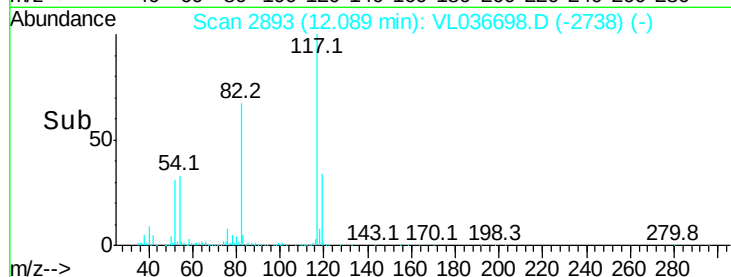
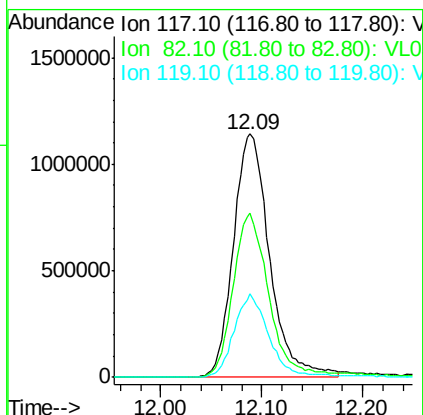
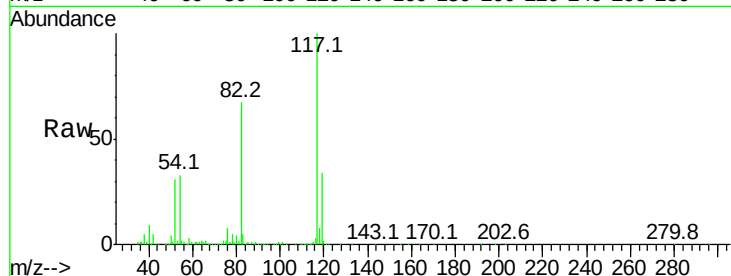




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

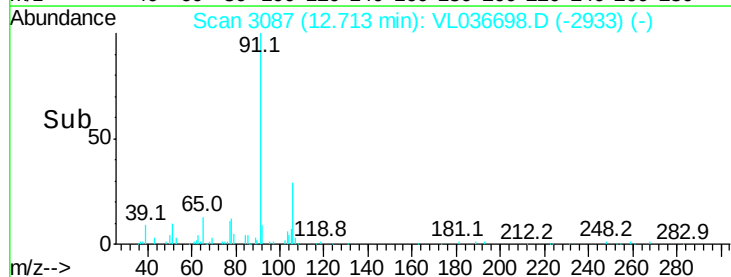
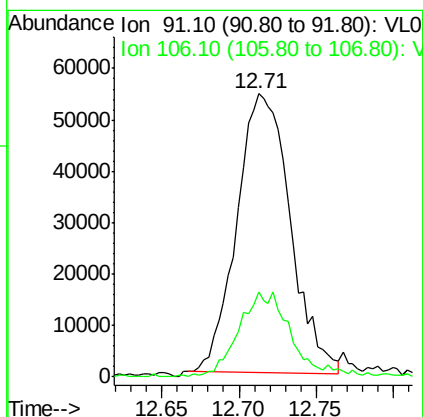
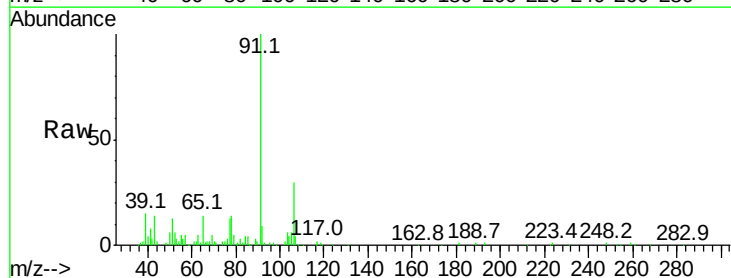
Instrument :
MSVOA_L
ClientSampleId :
SV5DL2

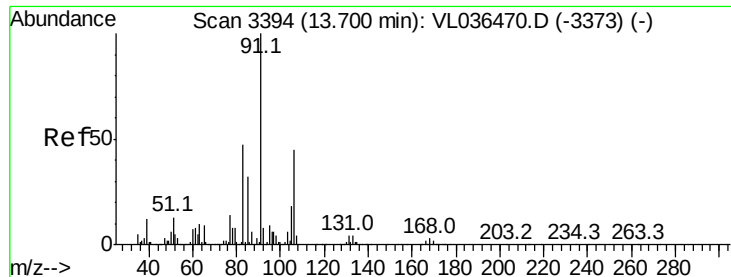
Tgt Ion: 117 Resp: 2845009
Ion Ratio Lower Upper
117 100
82 68.0 57.4 86.0
119 33.6 47.4 71.0#



#58
Ethyl Benzene
Concen: 0.314 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Tgt Ion: 91 Resp: 130143
Ion Ratio Lower Upper
91 100
106 30.4 25.3 37.9





#60

o-Xylene

Concen: 0.067 ppbv

RT: 13.70 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

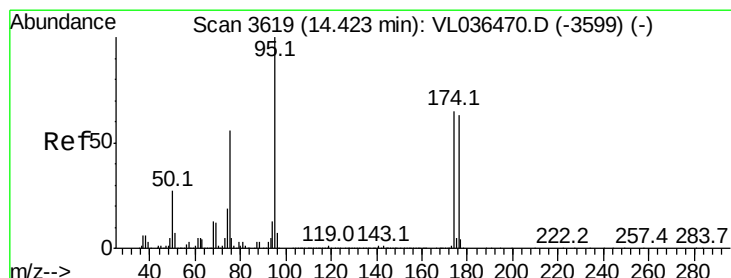
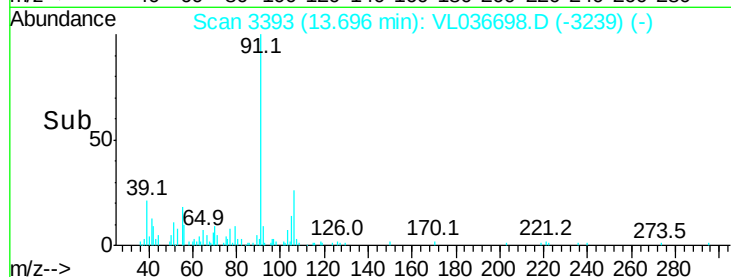
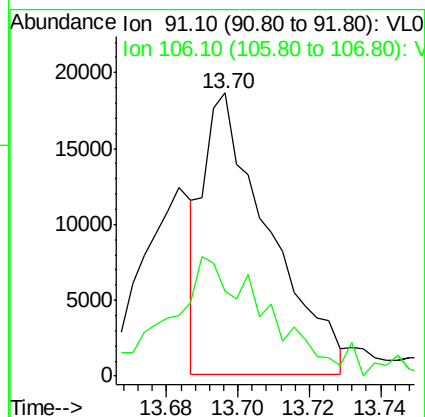
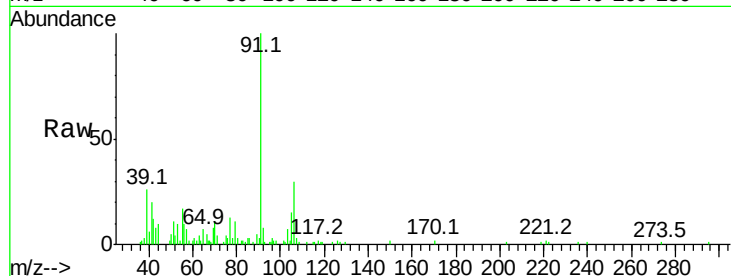
SV5DL2

Tgt Ion: 91 Resp: 23363

Ion Ratio Lower Upper

91 100

106 66.5 22.3 66.9



#68

1-Bromo-4-Fluorobenzene

Concen: 9.842 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

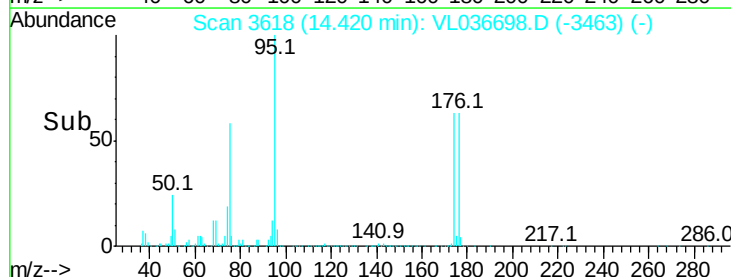
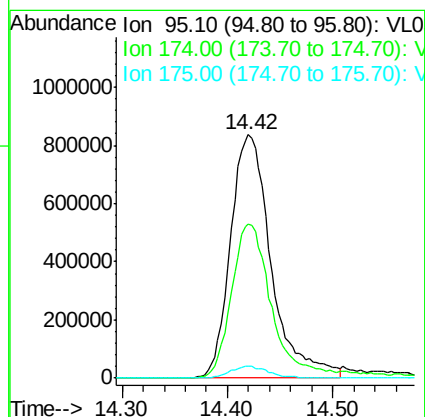
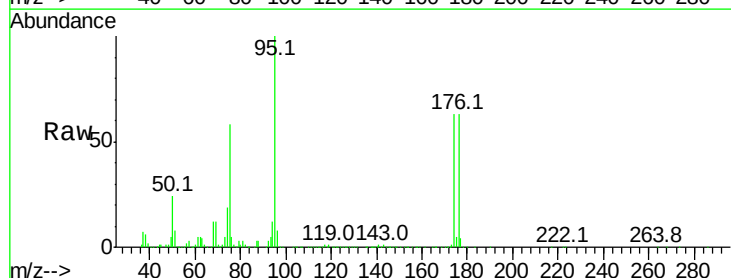
Tgt Ion: 95 Resp: 2231578

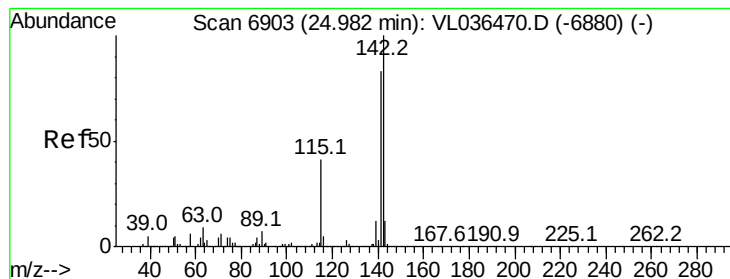
Ion Ratio Lower Upper

95 100

174 63.3 51.0 76.6

175 4.6 3.9 5.9





#80

Naphthalene, 2-methyl-

Concen: 0.054 ppbv

RT: 24.98 min Scan# 6903

Delta R.T. -0.00 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

SV5DL2

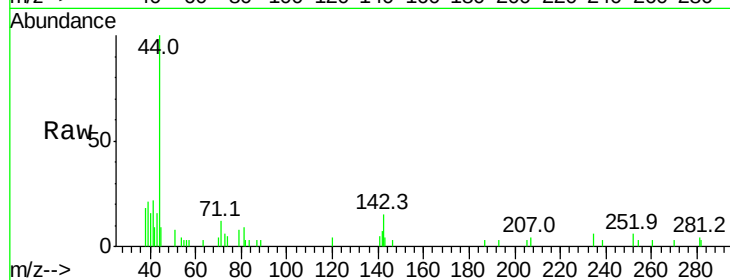
Tgt Ion:142 Resp: 2386

Ion Ratio Lower Upper

142 100

141 33.1 67.8 101.8#

115 15.7 34.0 51.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

