

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 :
 SV5

Quant Time: Apr 03 07:41:30 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		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.39	95	2145113	9.86	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%	

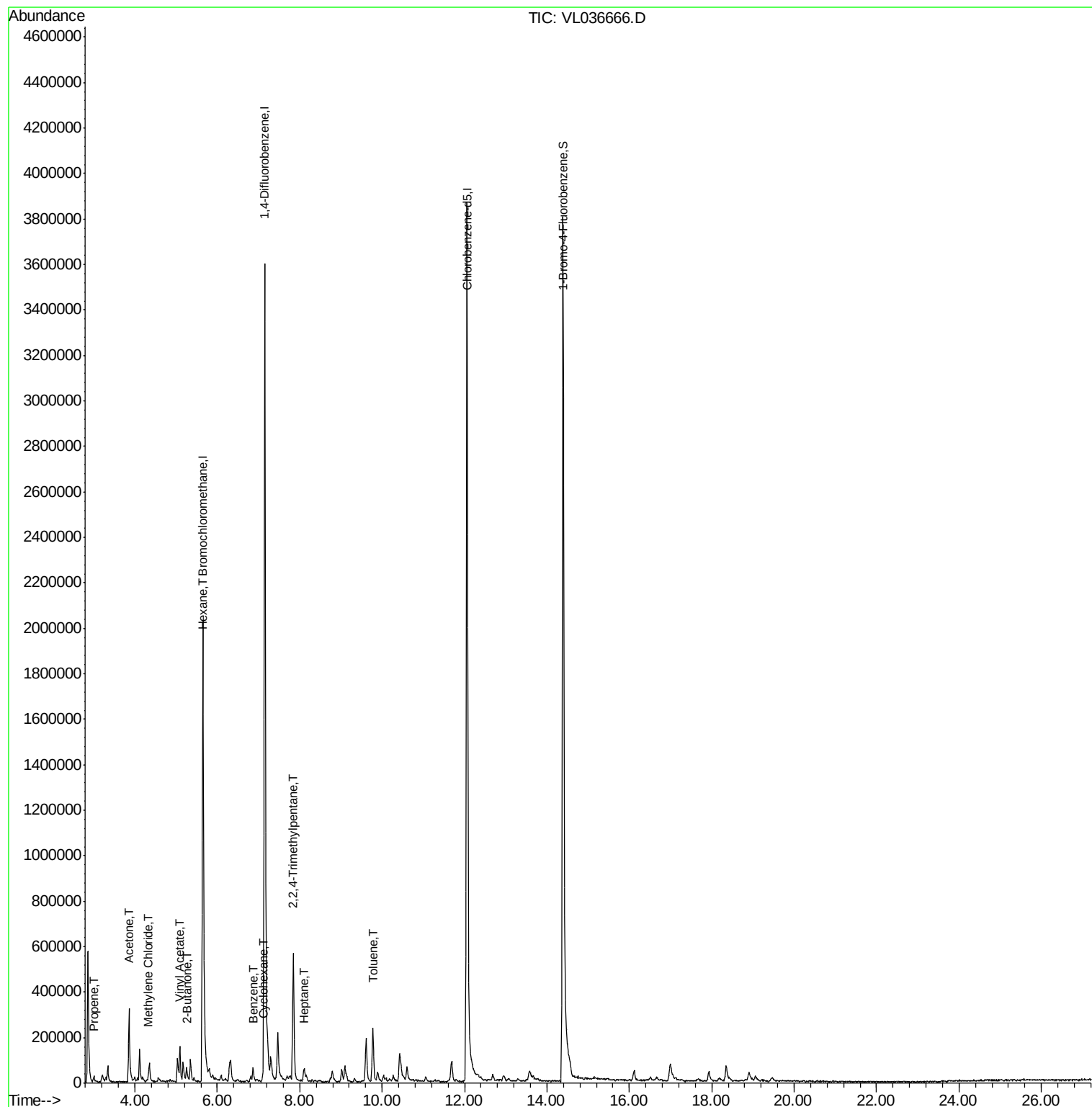
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	8138	0.114	ppbv	98
10) Heptane	8.10	43	23245m	0.128	ppbv	
15) Acetone	3.85	43	160251	1.363	ppbv	94
20) Methylene Chloride	4.32	84	9358m	0.170	ppbv	
23) Vinyl Acetate	5.09	43	97901m	0.487	ppbv	
26) Hexane	5.66	57	45330m	0.349	ppbv	
30) Cyclohexane	7.10	84	16082m	0.153	ppbv	
34) 2-Butanone	5.26	43	101942m	0.659	ppbv	
36) Benzene	6.87	78	54191m	0.185	ppbv	
44) 2,2,4-Trimethylpentane	7.84	57	572356	1.112	ppbv	99
53) Toluene	9.78	91	37126m	0.119	ppbv	

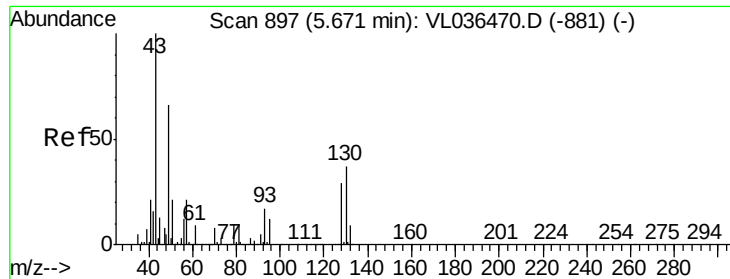
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
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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

ClientSampleId :

SV5

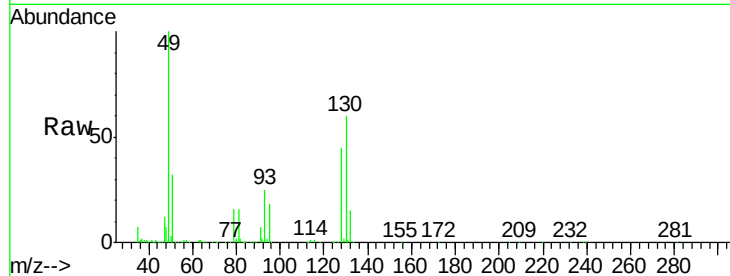
Tot Ion: 49 Resp: 1194737

Ion Ratio Lower Upper

49 100

128 48.3 23.5 70.6

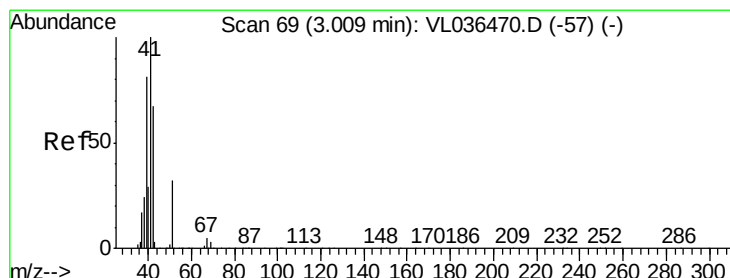
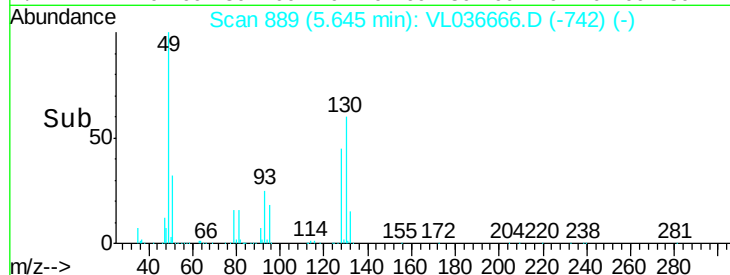
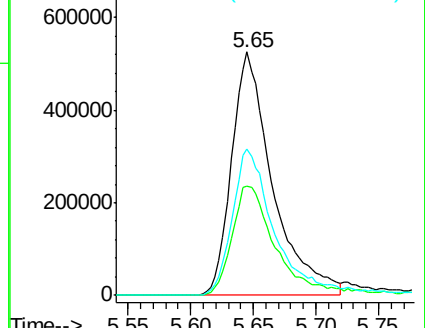
130 64.7 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 0.114 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036666.D

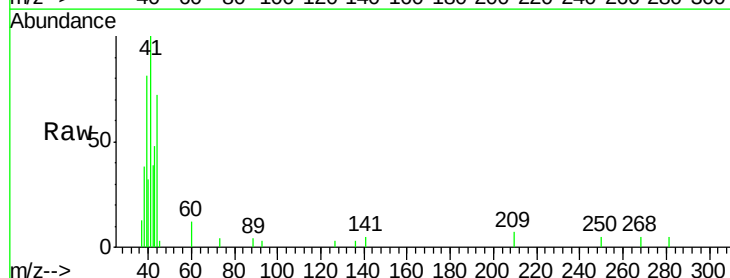
Acq: 3 Apr 2021 4:38

Tgt Ion: 41 Resp: 8138

Ion Ratio Lower Upper

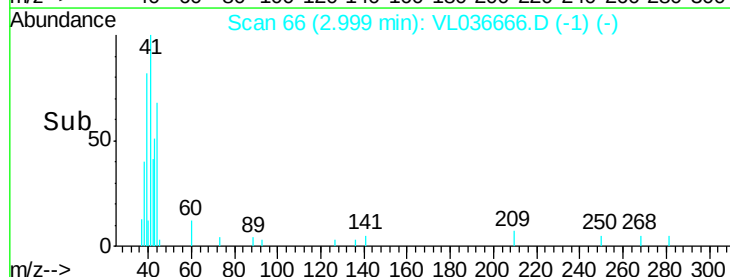
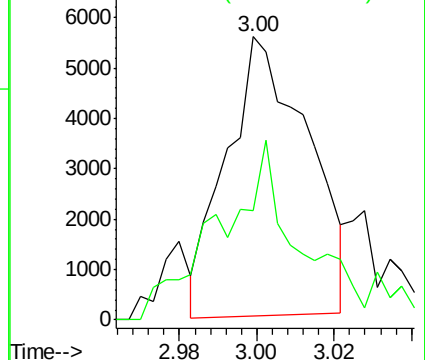
41 100

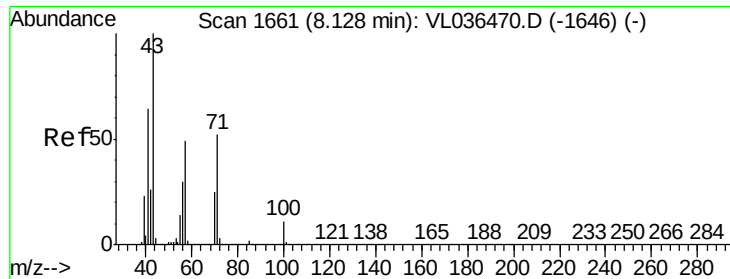
42 69.9 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

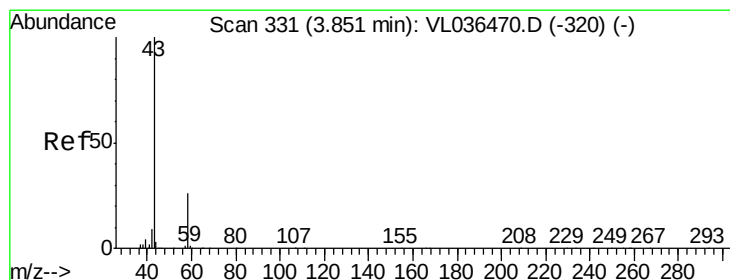
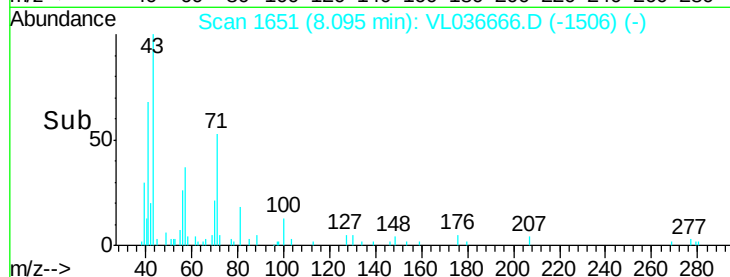
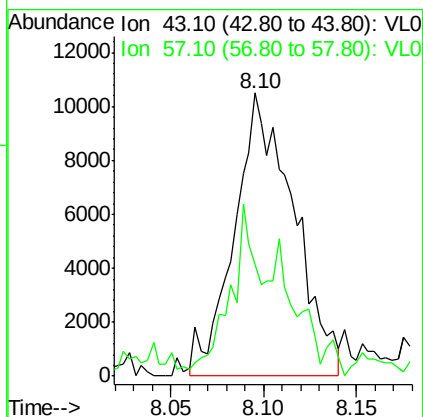
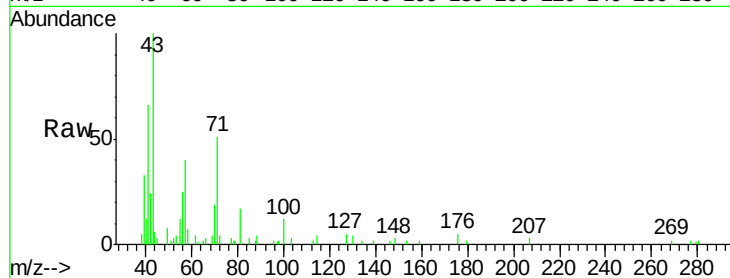




#10
 Heptane
 Concen: 0.128 ppbv m
 RT: 8.10 min Scan# 1651
 Delta R.T. -0.03 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

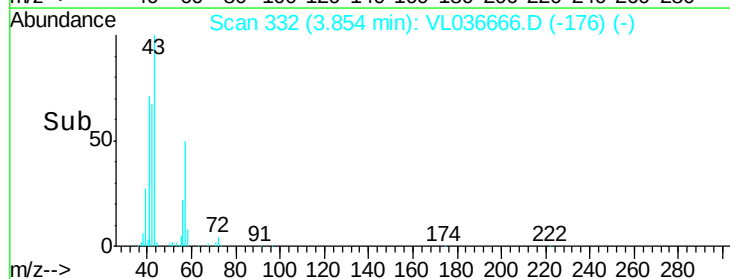
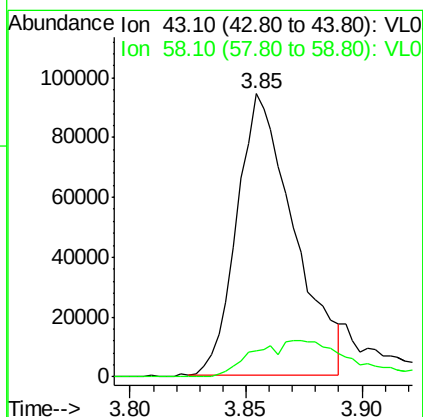
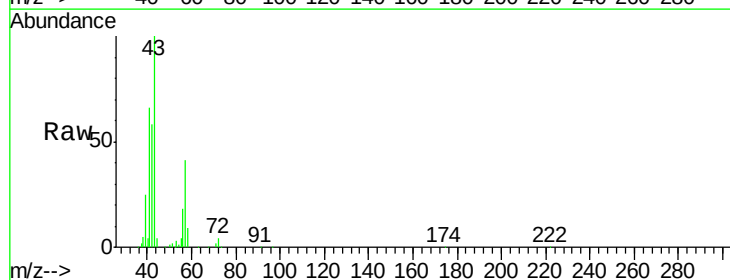
Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

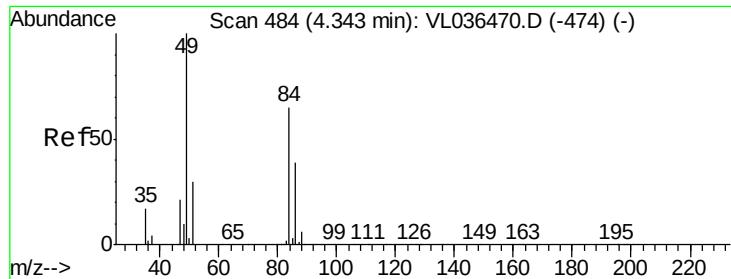
Tot Ion: 43 Resp: 23245
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.0 58.6#



#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

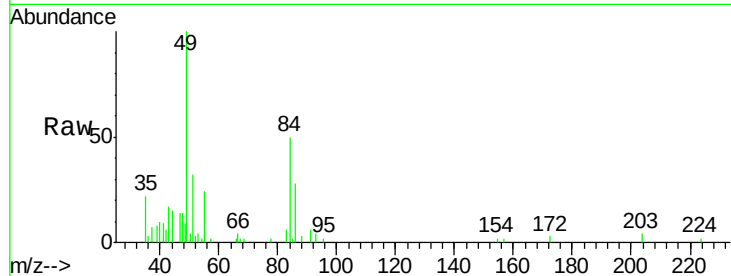




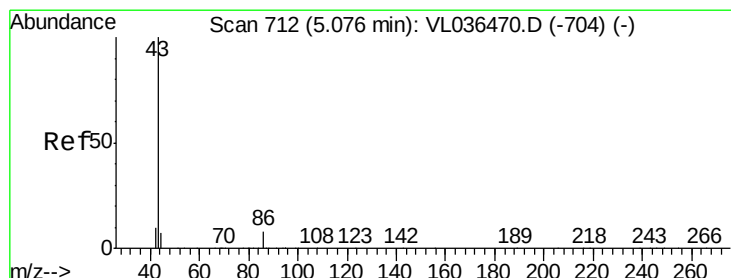
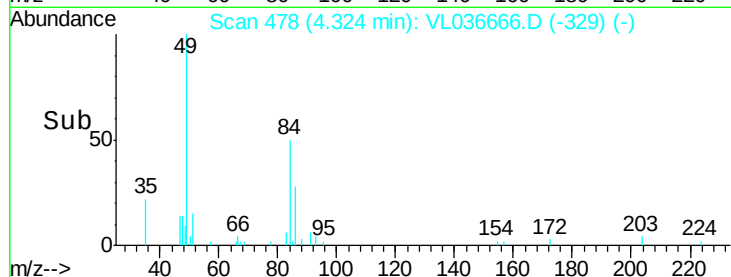
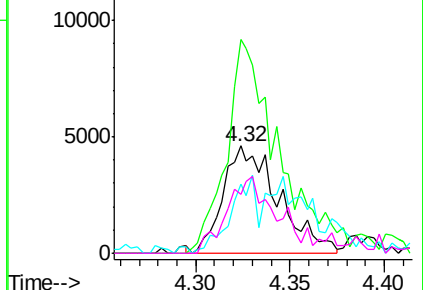
#20
Methylene Chloride
Concen: 0.170 ppbv m
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

Instrument :
MSVOA_L
ClientSampleId :
SV5

Tot Ion: 84 Resp: 9358
Ion Ratio Lower Upper
84 100
49 198.8 122.9 184.3#
51 64.5 36.9 55.3#
86 55.4 48.2 72.4

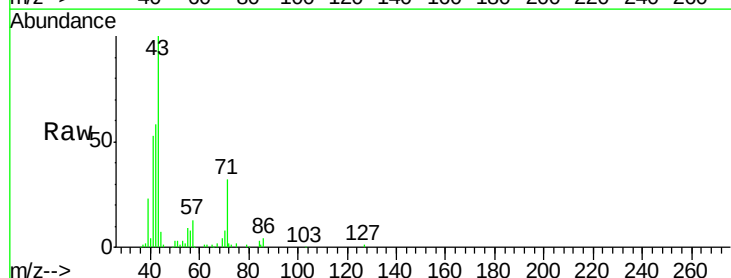


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

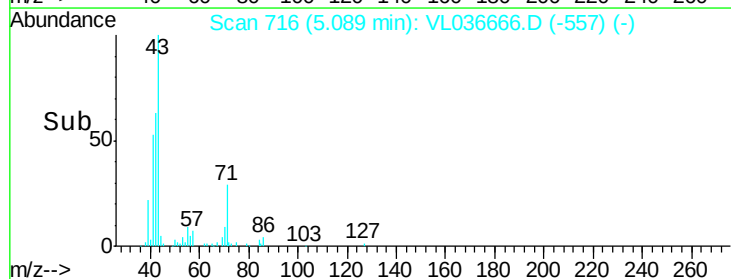
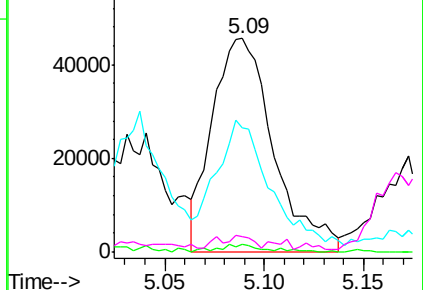


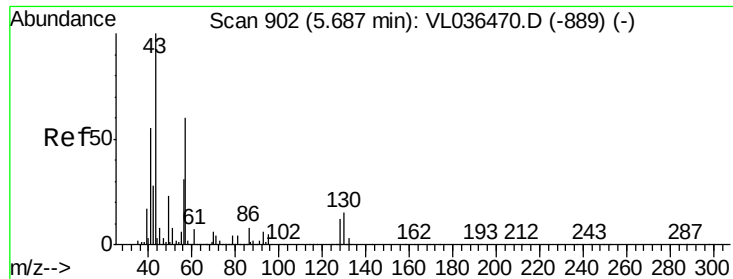
#23
Vinyl Acetate
Concen: 0.487 ppbv m
RT: 5.09 min Scan# 716
Delta R.T. 0.01 min
Lab File: VL036666.D
Acq: 3 Apr 2021 4:38

Tgt Ion: 43 Resp: 97901
Ion Ratio Lower Upper
43 100
86 3.7 5.4 8.0#
42 58.0 8.5 12.7#
44 7.4 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





#26

Hexane

Concen: 0.349 ppbv m

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 :

SV5

Tot Ion: 57 Resp: 45330

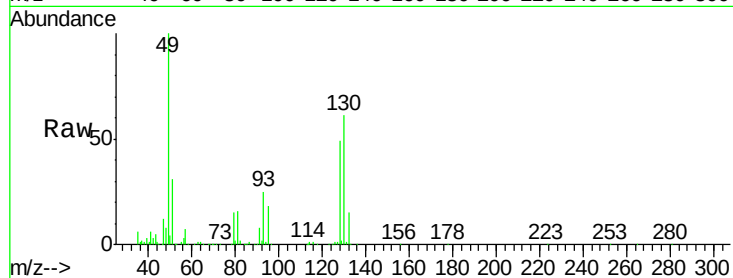
Ion Ratio Lower Upper

57 100

41 107.7 77.2 115.8

43 79.7 173.8 260.6#

56 57.4 43.8 65.6

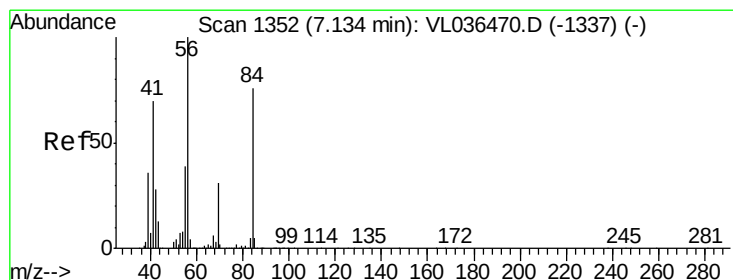
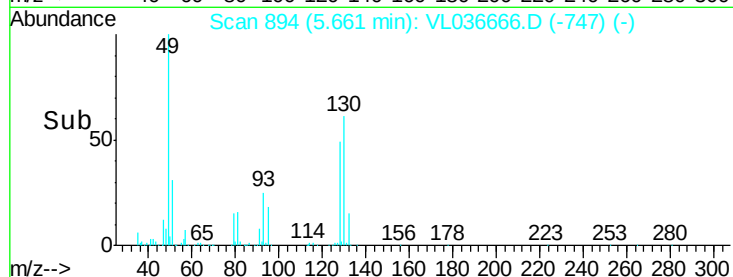
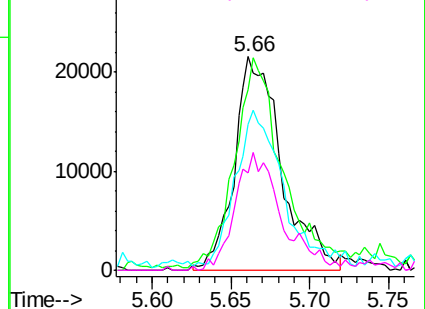


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#30

Cyclohexane

Concen: 0.153 ppbv m

RT: 7.10 min Scan# 1343

Delta R.T. -0.03 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

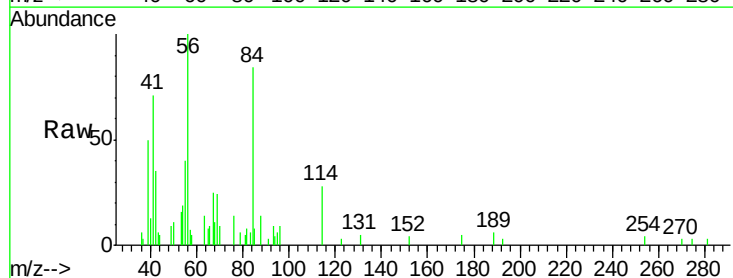
Tgt Ion: 84 Resp: 16082

Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

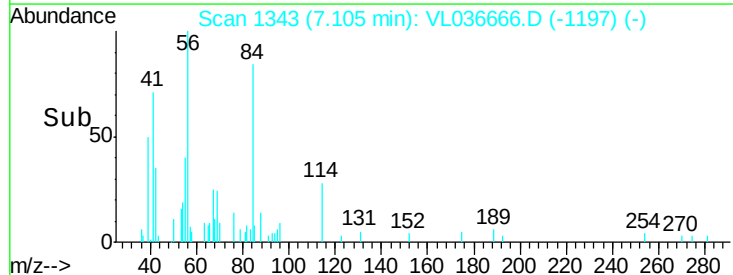
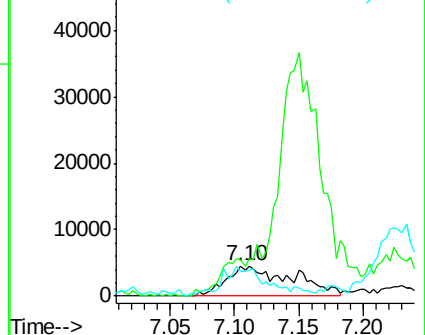
41 53.9 75.3 112.9#

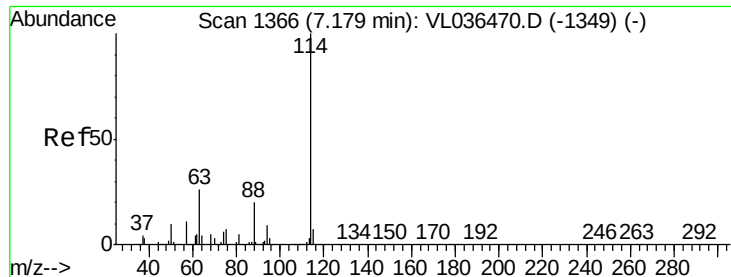


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

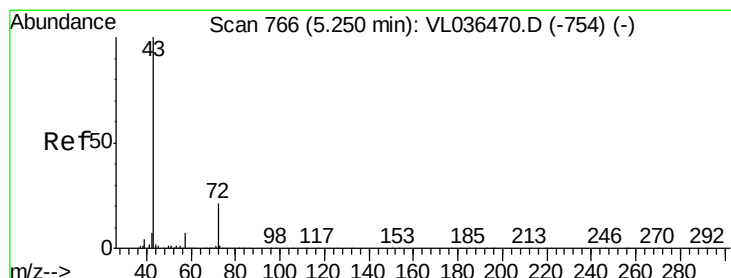
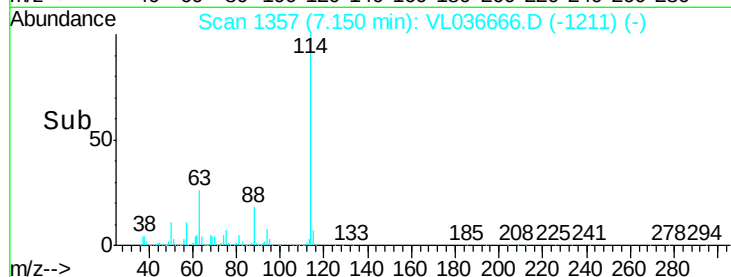
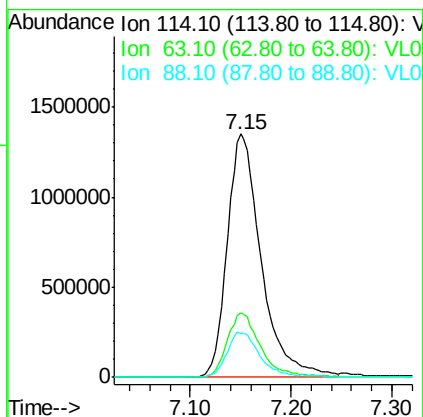
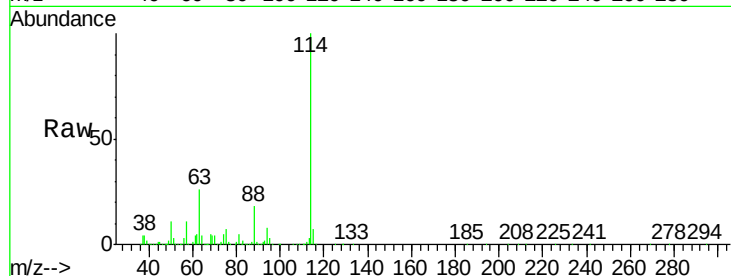




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

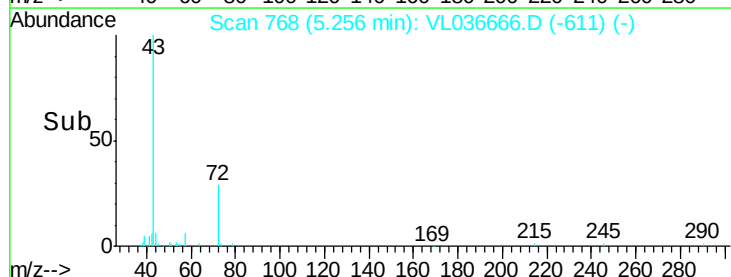
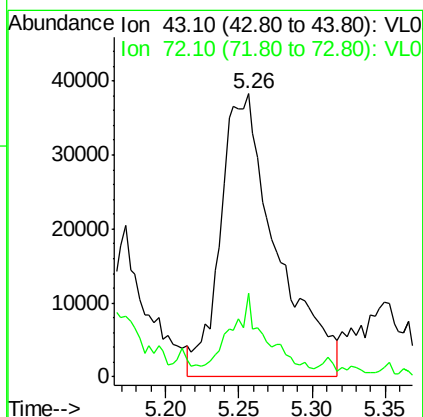
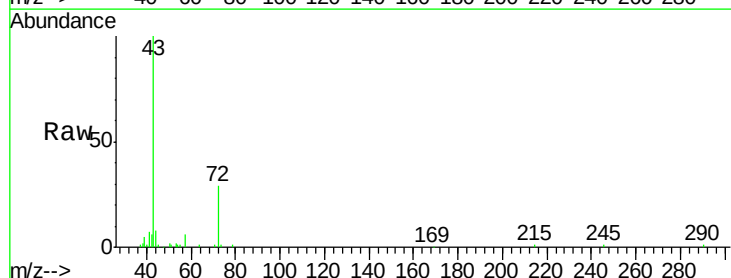
Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

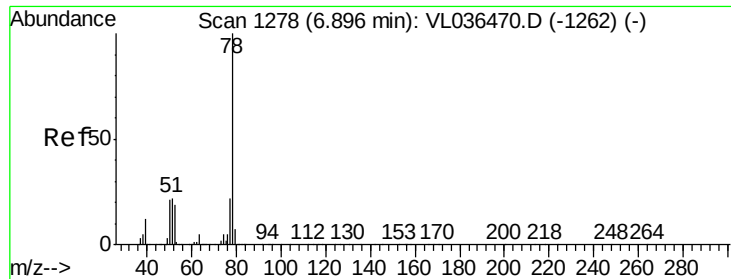
Tot Ion:114 Resp: 3170871
 Ion Ratio Lower Upper
 114 100
 63 26.5 22.4 33.6
 88 18.8 15.4 23.0



#34
 2-Butanone
 Concen: 0.659 ppbv m
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL036666.D
 Acq: 3 Apr 2021 4:38

Tgt Ion: 43 Resp: 101942
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#





#36

Benzene

Concen: 0.185 ppbv m

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 :

SV5

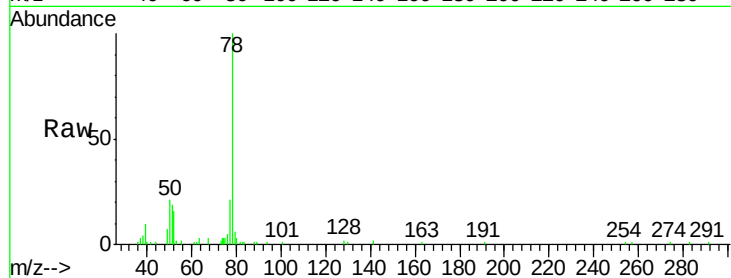
Tot Ion: 78 Resp: 54191

Ion Ratio Lower Upper

78 100

77 21.5 18.0 27.0

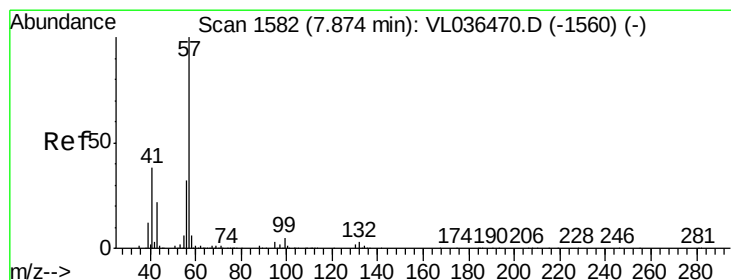
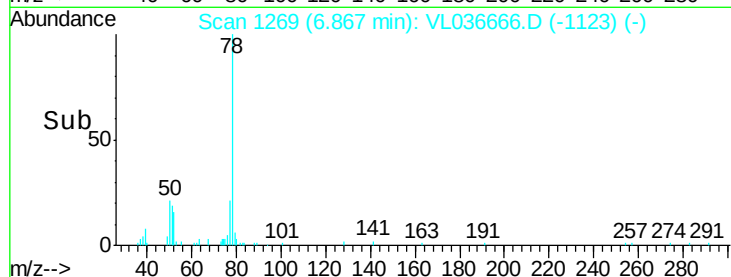
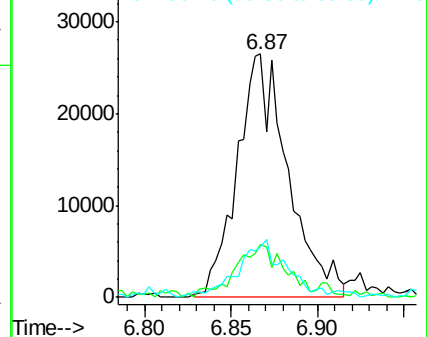
50 20.9 16.5 24.7



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



#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

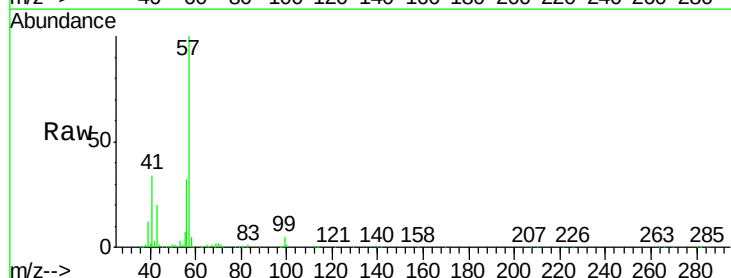
Tgt Ion: 57 Resp: 572356

Ion Ratio Lower Upper

57 100

41 36.9 28.8 43.2

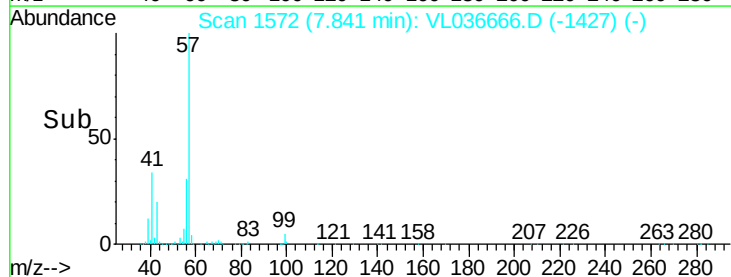
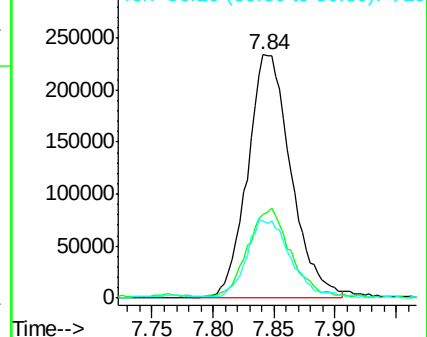
56 33.3 26.1 39.1

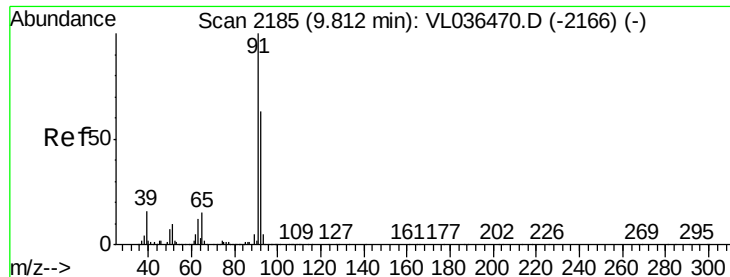


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.119 ppbv m

RT: 9.78 min Scan# 2176

Delta R.T. -0.03 min

Lab File: VL036666.D

Acq: 3 Apr 2021 4:38

Instrument :

MSVOA_L

ClientSampleId :

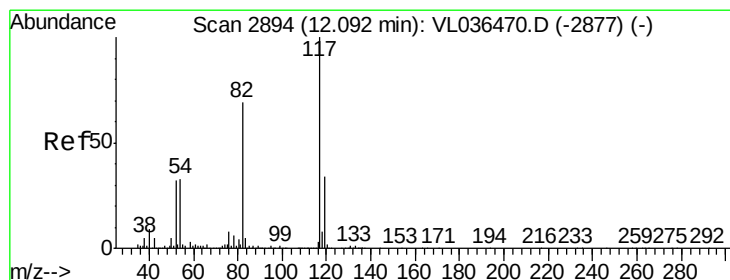
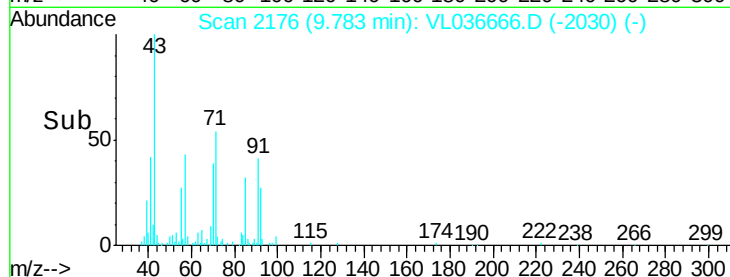
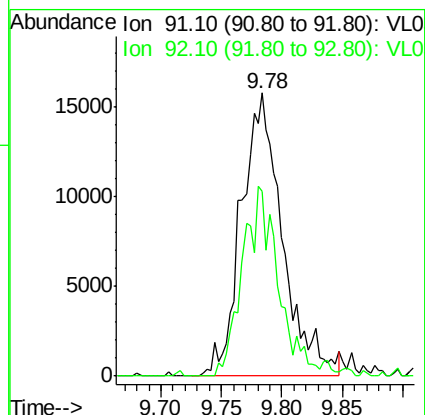
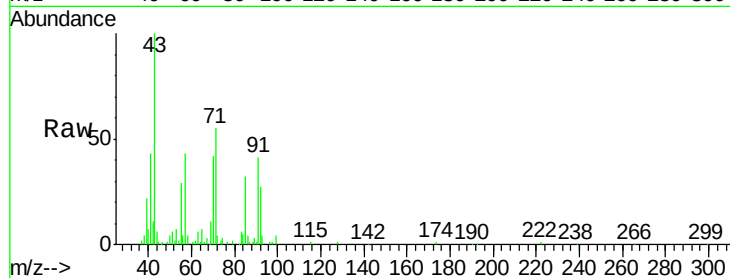
SV5

Tot Ion: 91 Resp: 37126

Ion Ratio Lower Upper

91 100

92 59.7 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

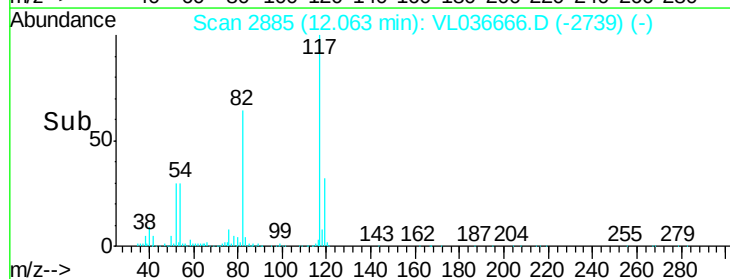
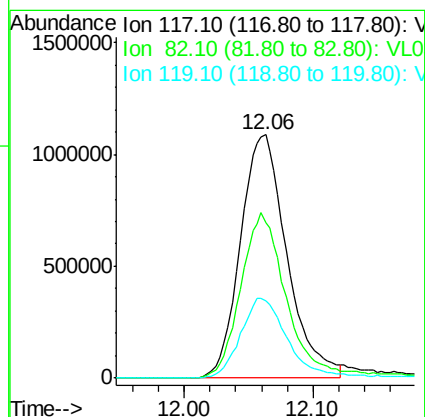
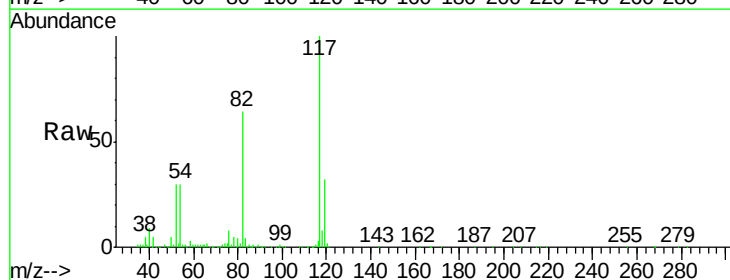
Tgt Ion: 117 Resp: 2729686

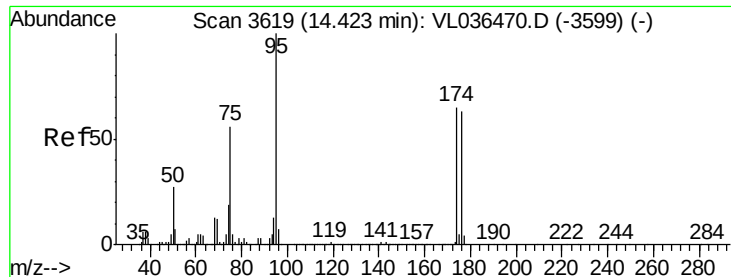
Ion Ratio Lower Upper

117 100

82 68.7 57.4 86.0

119 33.9 47.4 71.0#





#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 :

SV5

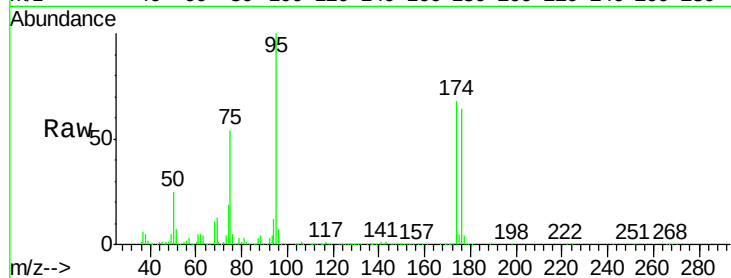
Tot Ion: 95 Resp: 2145113

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

