

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092921\
 Data File : VL037732.D
 Acq On : 29 Sep 2021 16:05
 Operator : SY/AP
 Sample : M3948-04DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL2

Quant Time: Sep 29 22:49:07 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1216756	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3582280	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	3120593	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	0.00	95	0	0.00	ppbv
Spiked Amount	10.000	Range	65 - 135	Recovery	= 0.00%#

Target Compounds

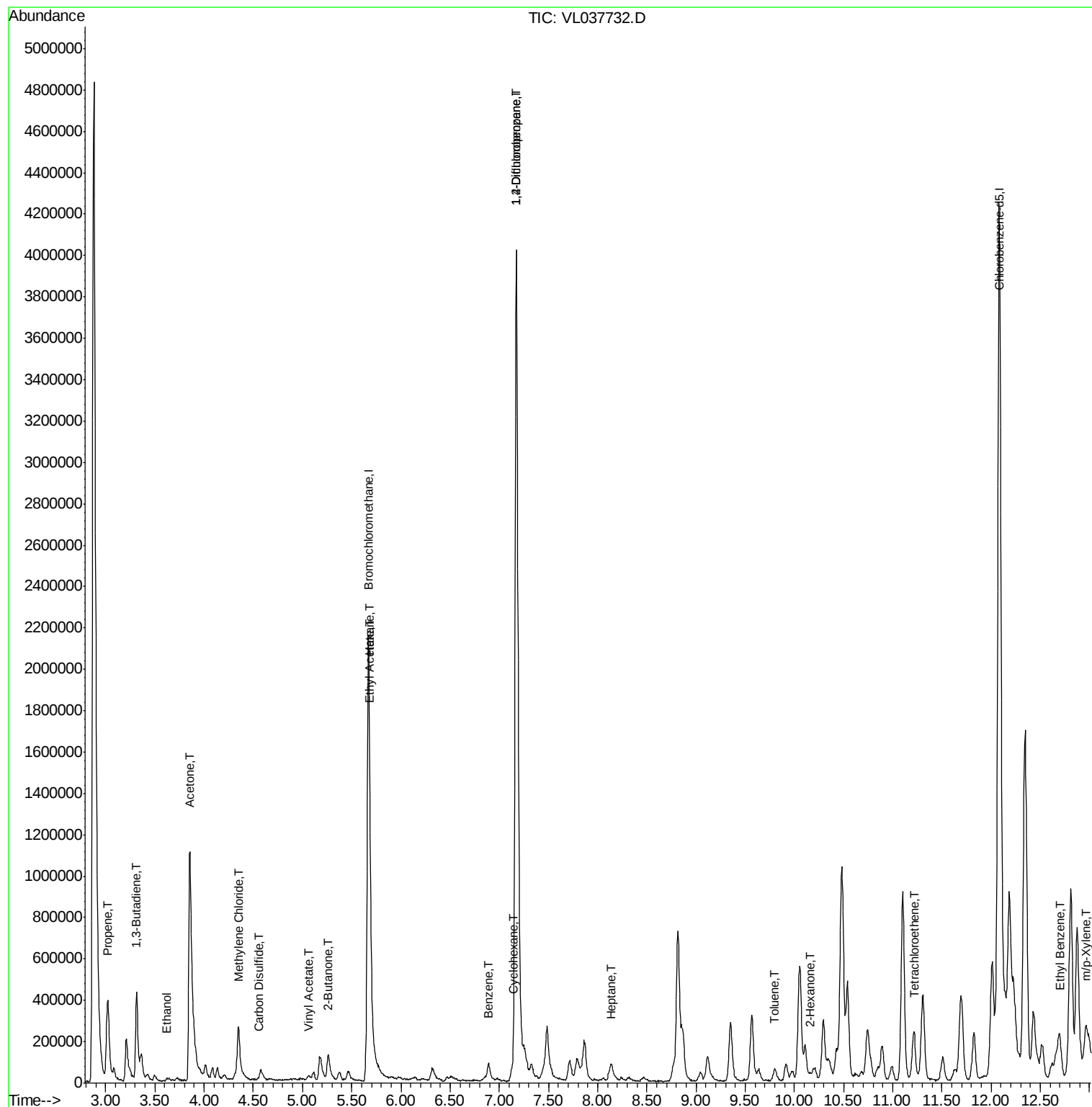
	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.02	41	205674	2.541	ppbv	91
10) Heptane	8.13	43	6564	0.035	ppbv #	27
13) Ethanol	3.62	45	7507	0.948	ppbv #	51
15) Acetone	3.85	43	1757611	13.903	ppbv	99
16) 1,3-Butadiene	3.31	39	131327	1.662	ppbv #	27
20) Methylene Chloride	4.35	84	99832	1.654	ppbv	89
23) Vinyl Acetate	5.08	43	5316	0.030	ppbv #	60
25) Ethyl Acetate	5.69	43	67727	0.221	ppbv #	79
26) Hexane	5.69	57	105000	0.722	ppbv #	45
27) Carbon Disulfide	4.55	76	4810	0.036	ppbv #	1
30) Cyclohexane	7.13	84	6328	0.051	ppbv #	1
34) 2-Butanone	5.26	43	165334	1.136	ppbv	92
36) Benzene	6.89	78	50105	0.168	ppbv #	89
39) 1,2-Dichloropropane	7.18	63	817844	7.148	ppbv #	27
51) 2-Hexanone	10.15	43	3794	0.047	ppbv #	29
52) Tetrachloroethene	11.23	164	3459	0.030	ppbv #	75
53) Toluene	9.81	91	14748	0.044	ppbv #	27
58) Ethyl Benzene	12.71	91	22204	0.054	ppbv	92
59) m/p-Xylene	12.96	91	127166	0.352	ppbv #	82

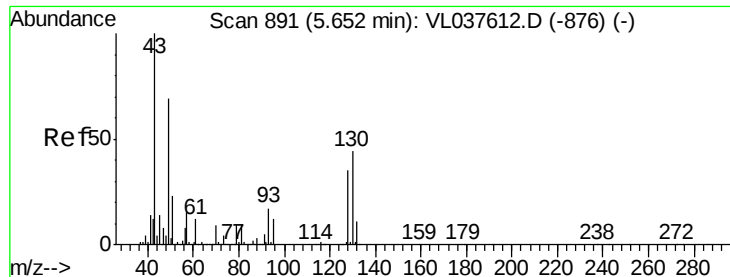
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092921\
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Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :
SV4DL2

Quant Time: Sep 29 22:49:07 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Instrument :

MSVOA_L

ClientSampleId :

SV4DL2

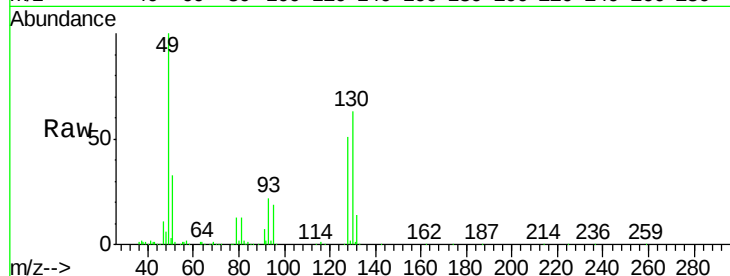
Tgt Ion: 49 Resp: 1216756

Ion Ratio Lower Upper

49 100

128 53.1 27.9 83.6

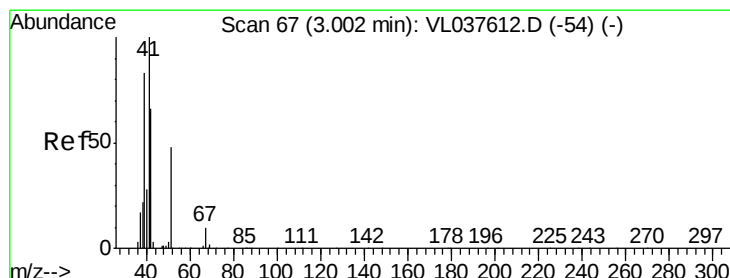
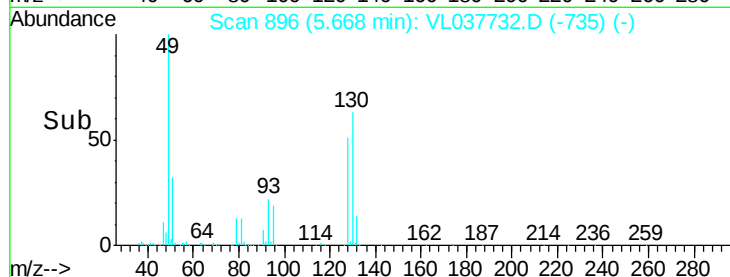
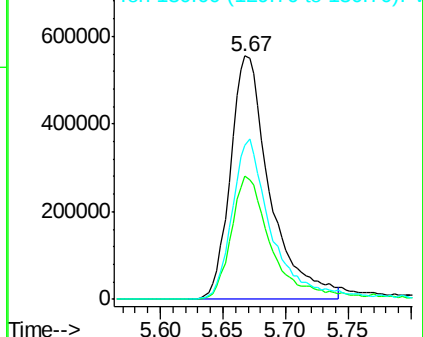
130 67.8 33.9 101.7



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: 2.541 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL037732.D

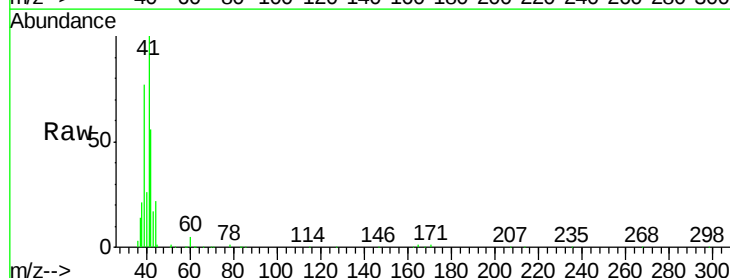
Acq: 29 Sep 2021 16:05

Tgt Ion: 41 Resp: 205674

Ion Ratio Lower Upper

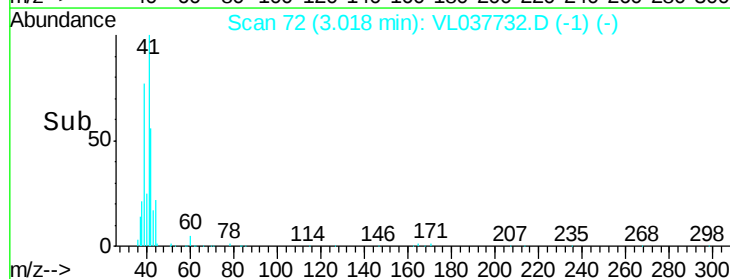
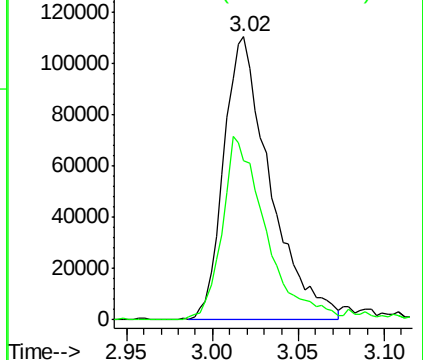
41 100

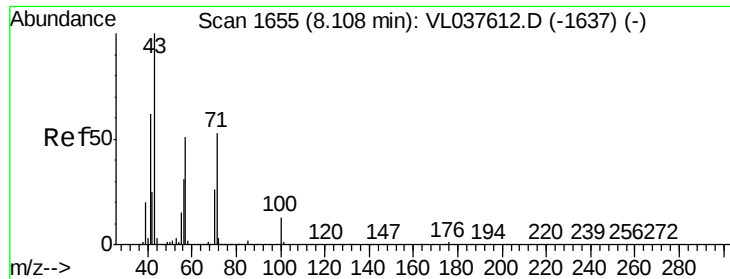
42 63.9 57.2 85.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

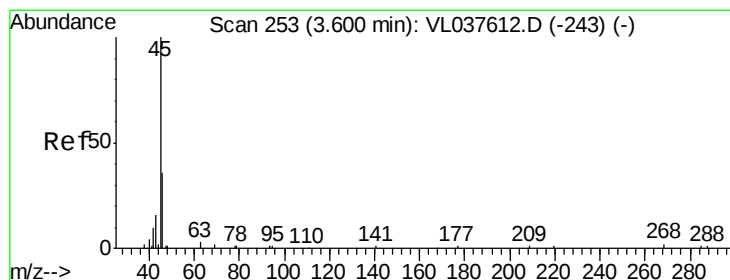
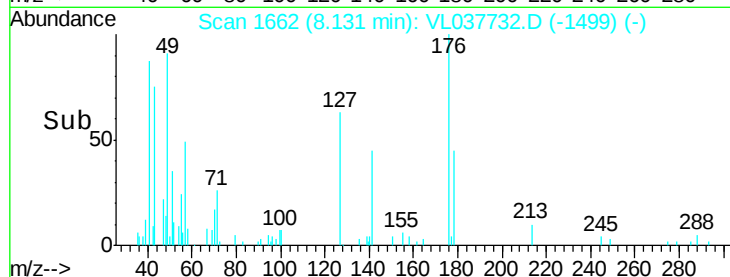
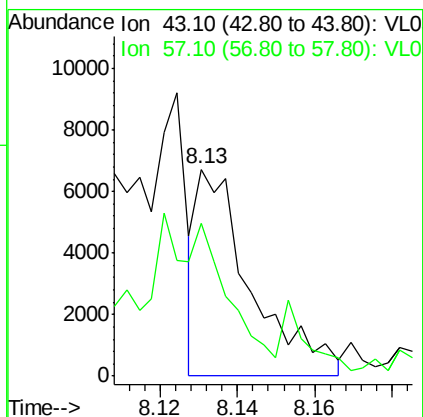
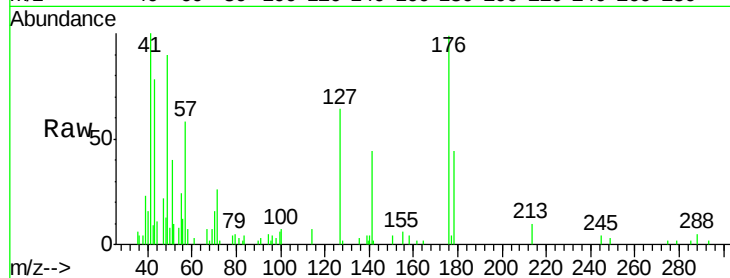




#10
Heptane
Concen: 0.035 ppbv
RT: 8.13 min Scan# 1662
Delta R.T. 0.02 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

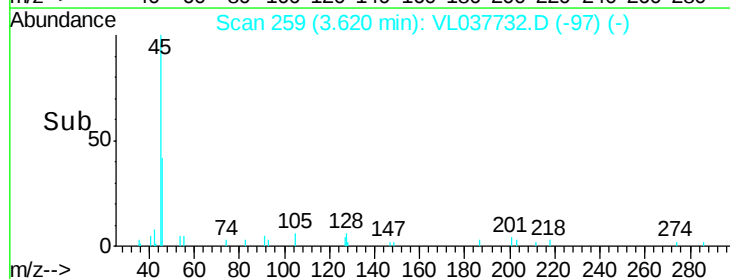
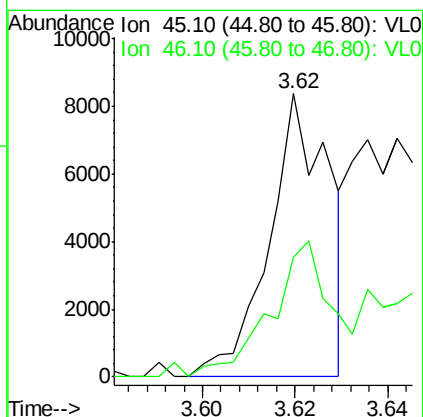
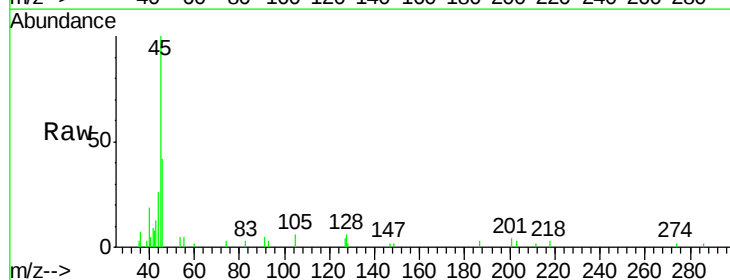
Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

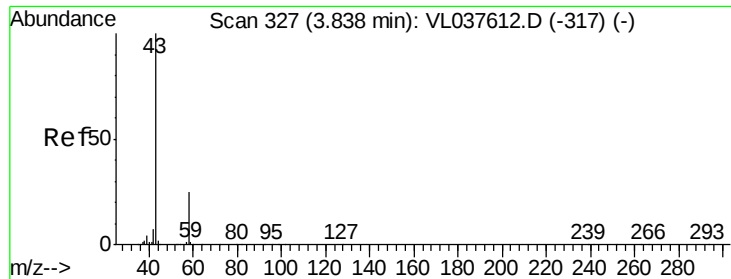
Tgt Ion: 43 Resp: 6564
Ion Ratio Lower Upper
43 100
57 0.0 40.1 60.1#



#13
Ethanol
Concen: 0.948 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

Tgt Ion: 45 Resp: 7507
Ion Ratio Lower Upper
45 100
46 74.6 17.2 68.8#

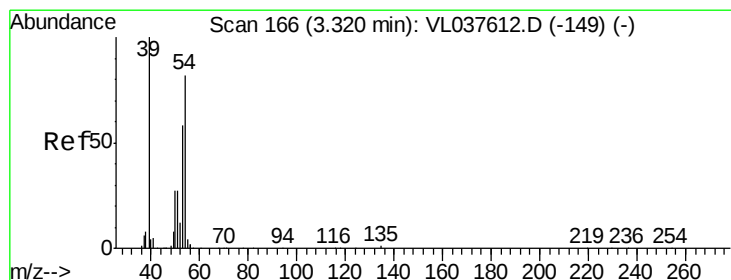
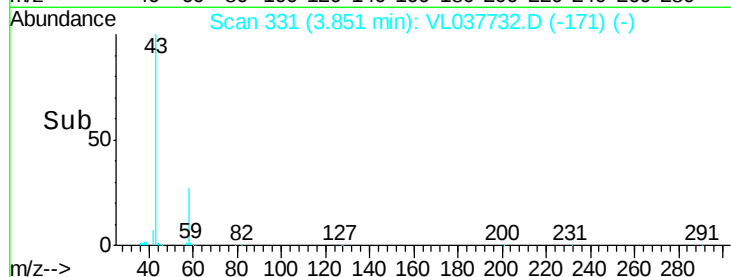
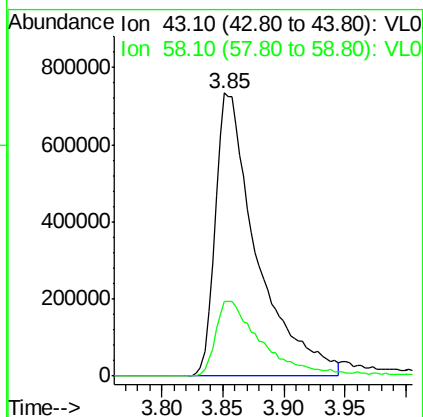
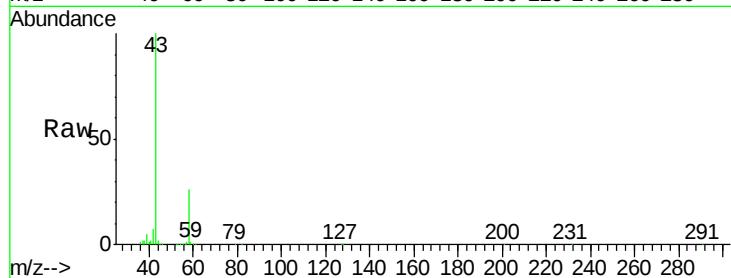




#15
Acetone
Concen: 13.903 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

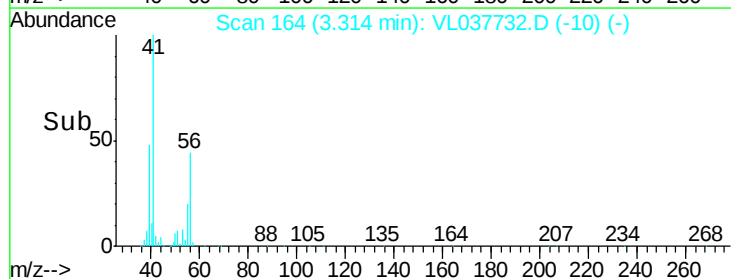
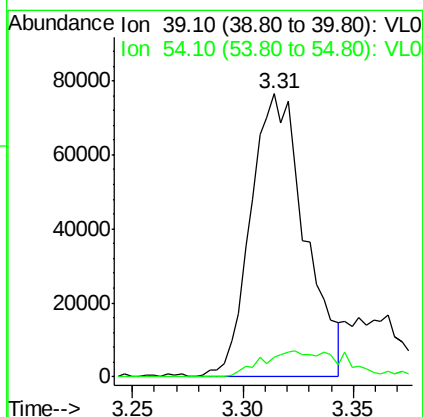
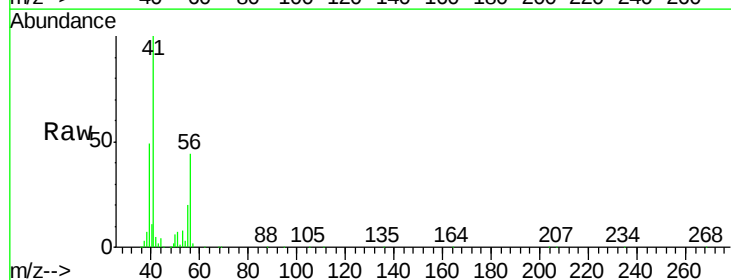
Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

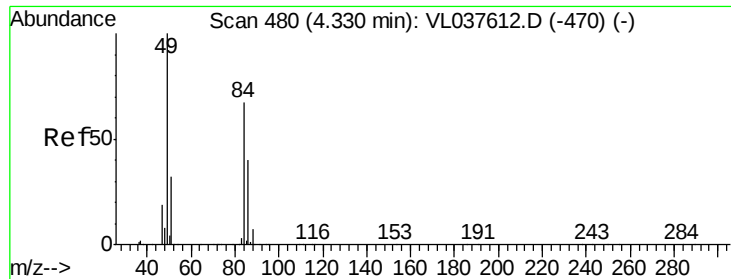
Tgt Ion: 43 Resp: 1757611
Ion Ratio Lower Upper
43 100
58 30.7 24.9 37.3



#16
1,3-Butadiene
Concen: 1.662 ppbv
RT: 3.31 min Scan# 164
Delta R.T. -0.01 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

Tgt Ion: 39 Resp: 131327
Ion Ratio Lower Upper
39 100
54 14.6 62.6 93.8#

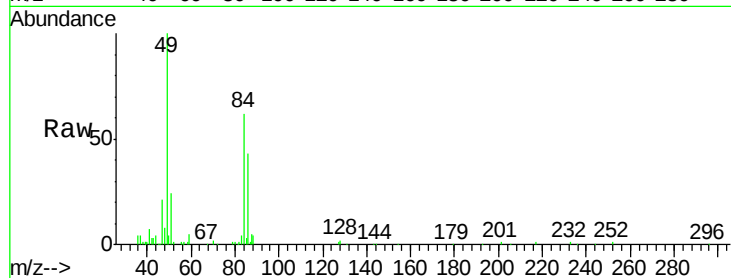




#20
Methylene Chloride
Concen: 1.654 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.02 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

Tgt Ion:	84	Resp:	99832
Ion	Ratio	Lower	Upper
84	100		
49	162.1	120.0	180.0
51	38.8	38.0	57.0
86	69.2	48.2	72.2



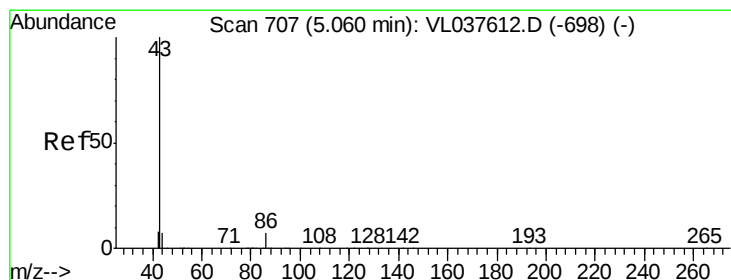
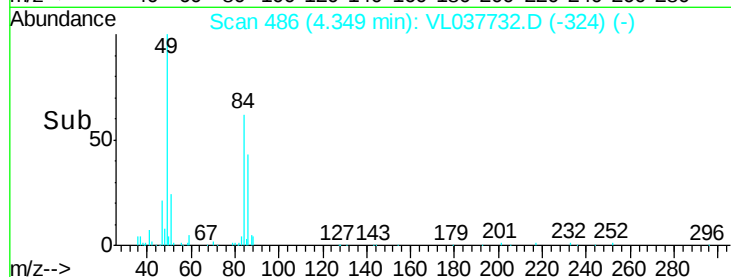
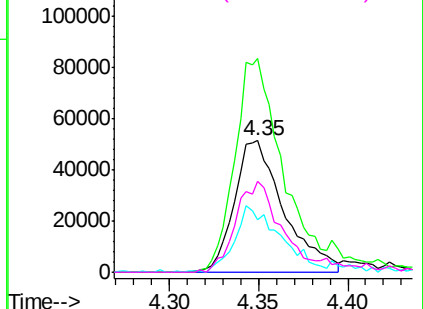
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

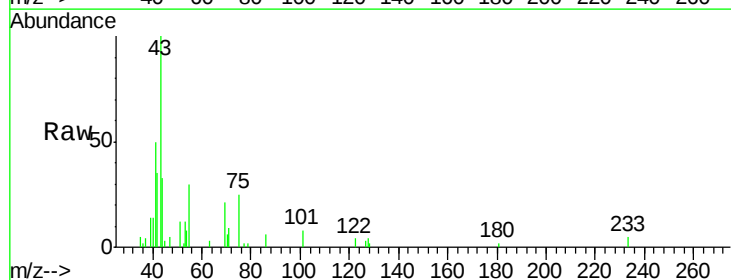
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.030 ppbv
RT: 5.08 min Scan# 712
Delta R.T. 0.02 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

Tgt Ion:	43	Resp:	5316
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	27.0	7.5	11.3#
44	22.7	4.7	7.1#



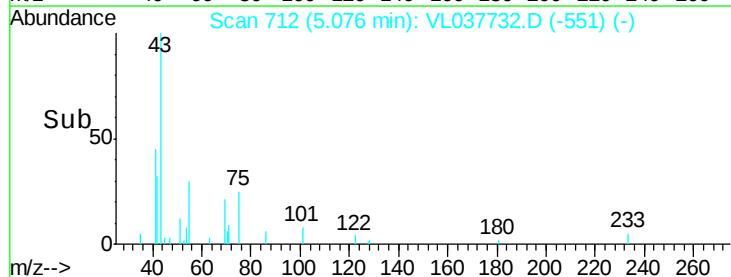
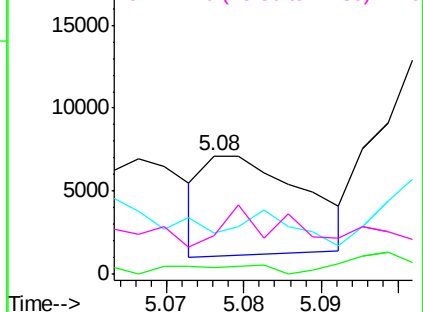
Abundance

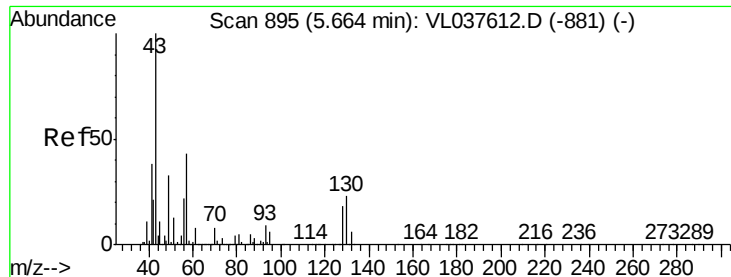
Ion 43.10 (42.80 to 43.80): VL0

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: 0.221 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Instrument :

MSVOA_L

ClientSampleId :

SV4DL2

Tgt Ion: 43 Resp: 67727

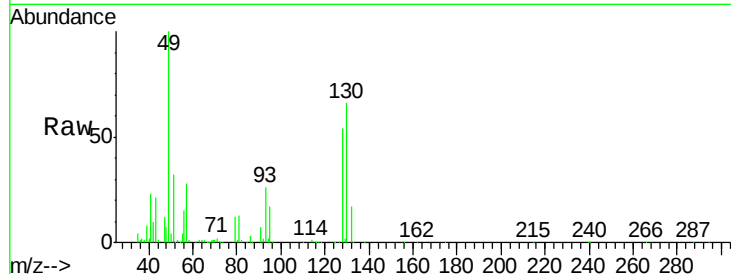
Ion Ratio Lower Upper

43 100

45 0.3 8.0 12.0#

61 1.2 7.5 11.3#

70 2.8 5.6 8.4#

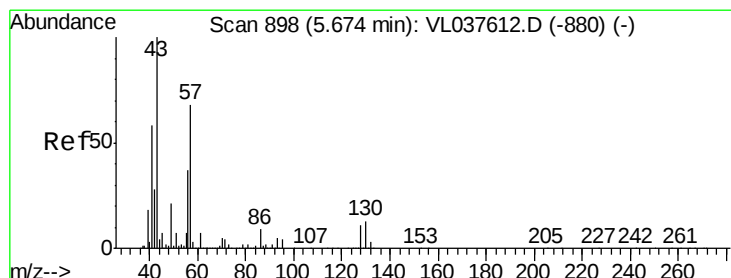
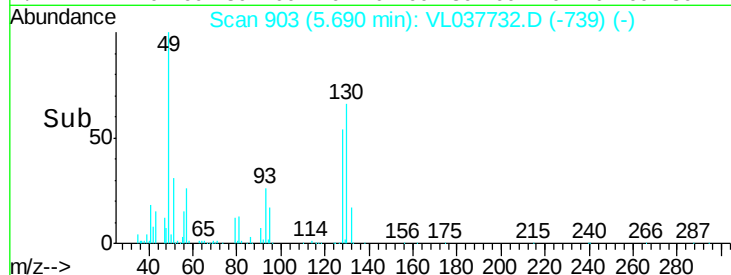
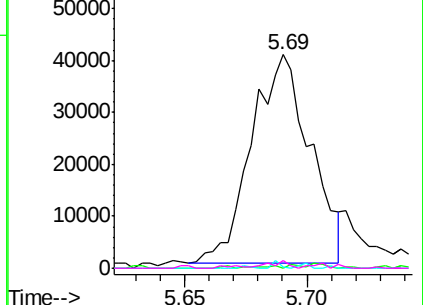


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.722 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Tgt Ion: 57 Resp: 105000

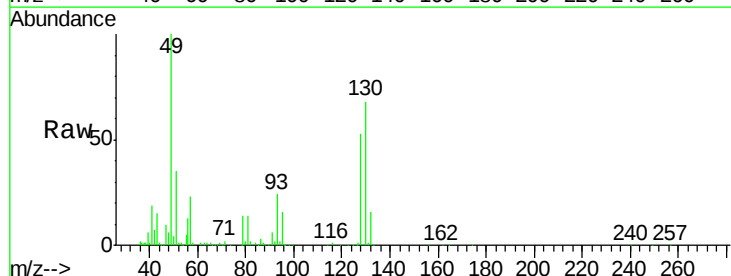
Ion Ratio Lower Upper

57 100

41 96.8 70.9 106.3

43 77.7 170.4 255.6#

56 58.3 42.6 64.0

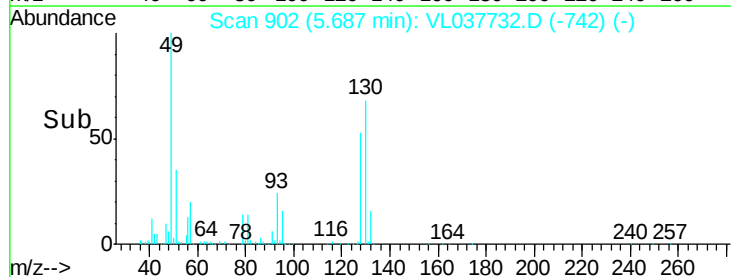
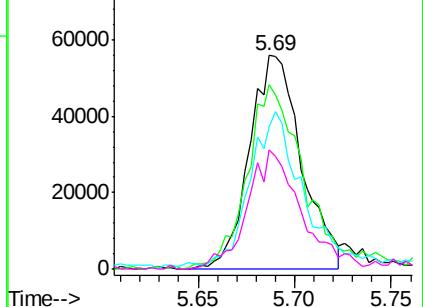


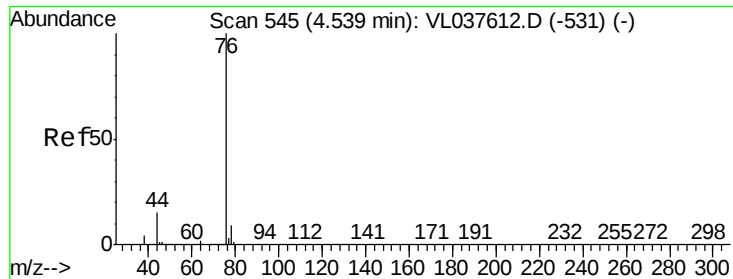
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.036 ppbv

RT: 4.55 min Scan# 548

Delta R.T. 0.01 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Instrument :

MSVOA_L

ClientSampleId :

SV4DL2

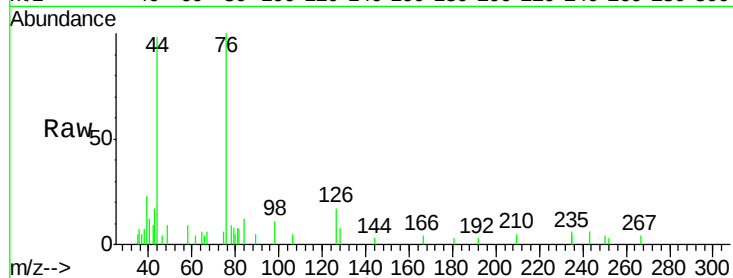
Tgt Ion: 76 Resp: 4810

Ion Ratio Lower Upper

76 100

44 78.4 14.2 21.2#

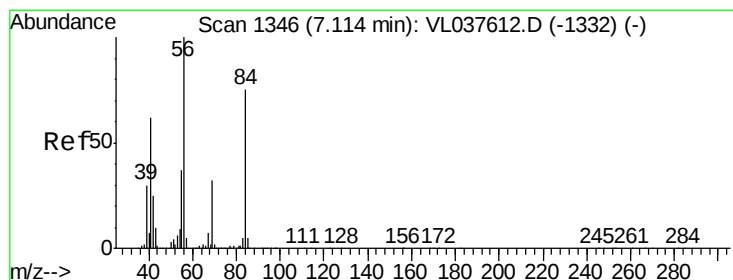
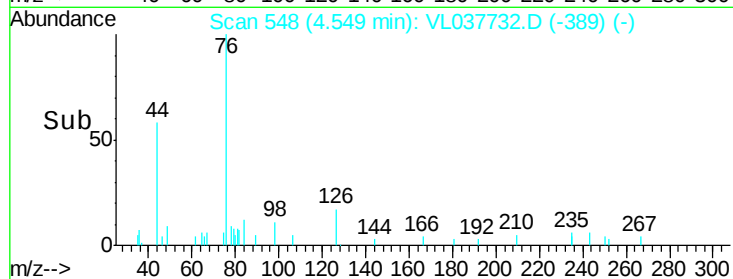
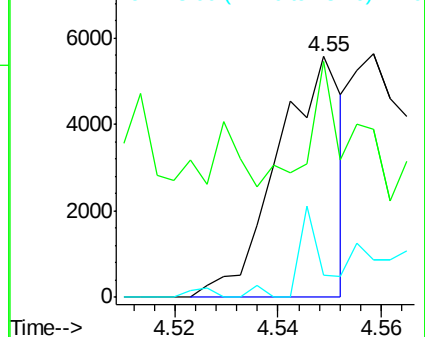
78 48.7 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 0.051 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. 0.02 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

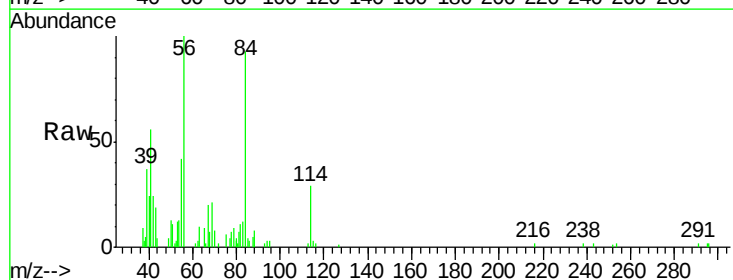
Tgt Ion: 84 Resp: 6328

Ion Ratio Lower Upper

84 100

56 0.0 113.6 170.4#

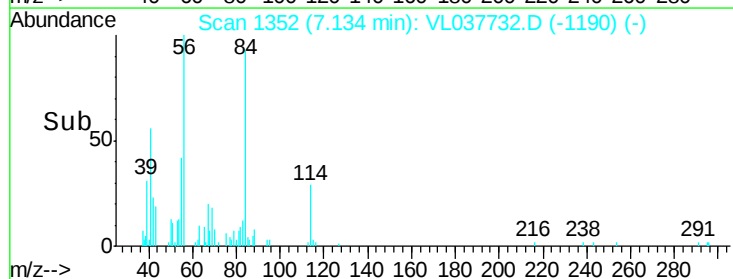
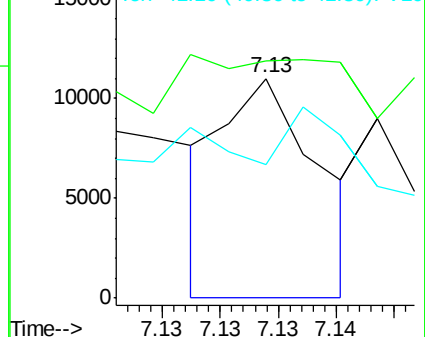
41 361.9 67.9 101.9#

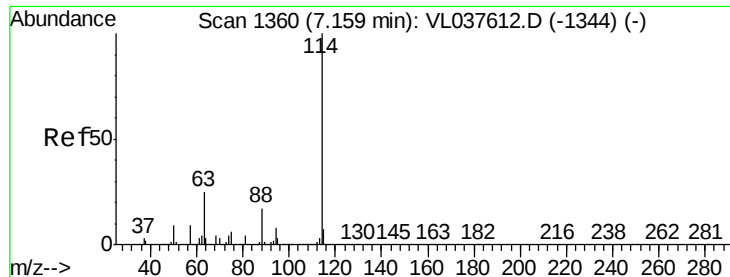


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

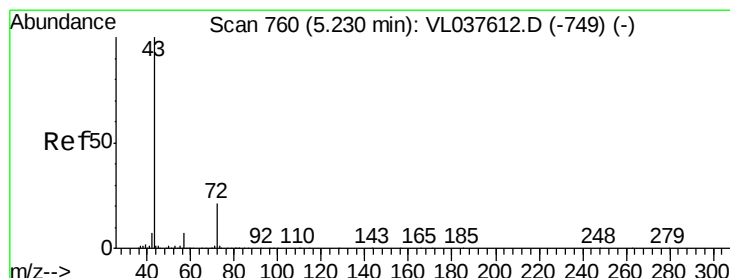
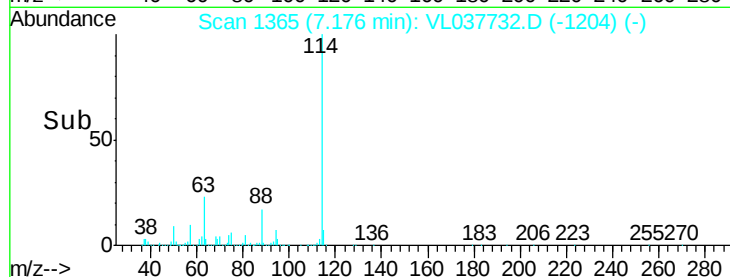
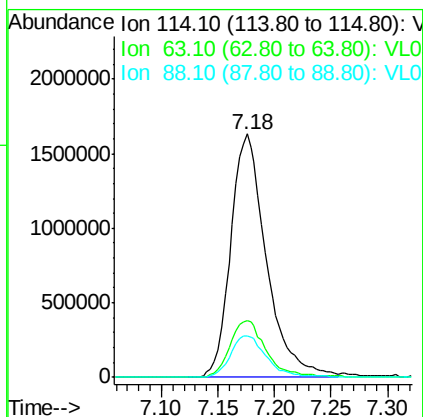
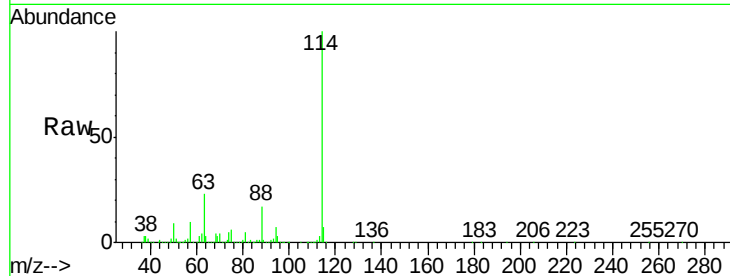




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.02 min
 Lab File: VL037732.D
 Acq: 29 Sep 2021 16:05

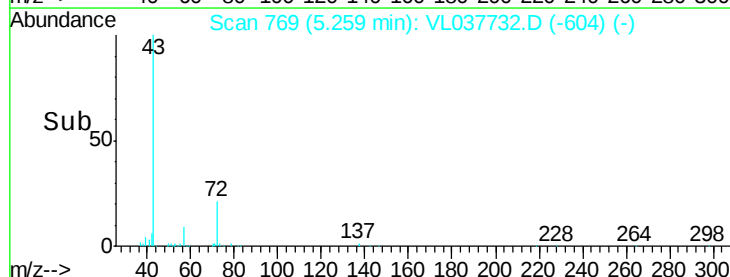
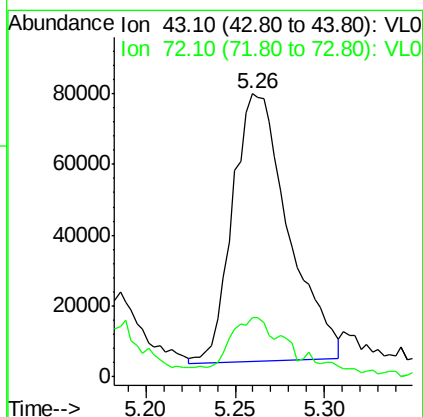
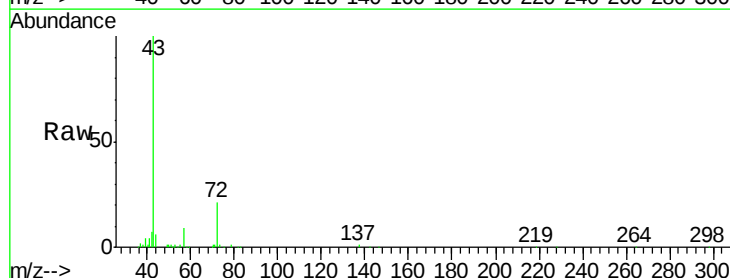
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL2

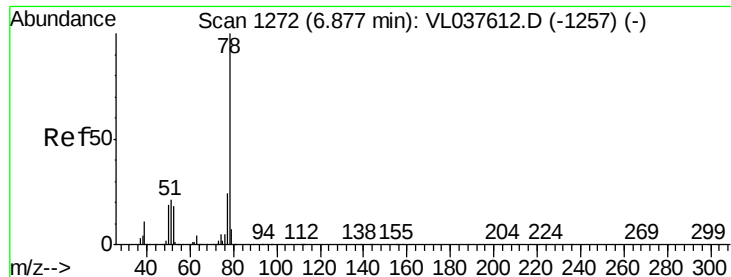
Tgt Ion: 114 Resp: 3582280
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.6 29.4
 88 17.8 14.2 21.4



#34
 2-Butanone
 Concen: 1.136 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.03 min
 Lab File: VL037732.D
 Acq: 29 Sep 2021 16:05

Tgt Ion: 43 Resp: 165334
 Ion Ratio Lower Upper
 43 100
 72 26.7 18.4 27.6





#36

Benzene

Concen: 0.168 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.02 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Instrument :

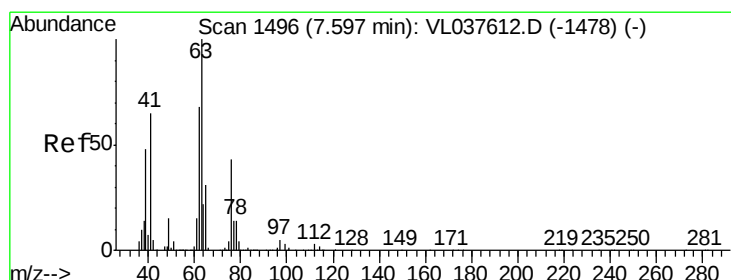
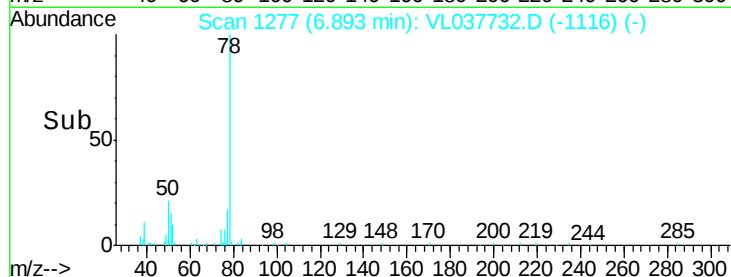
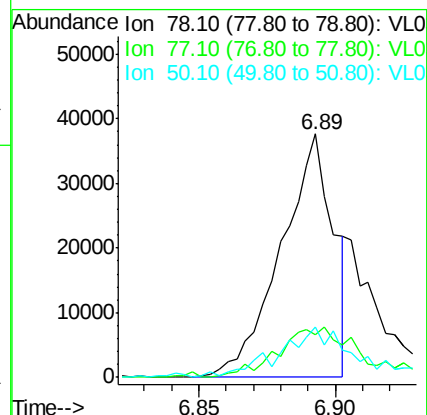
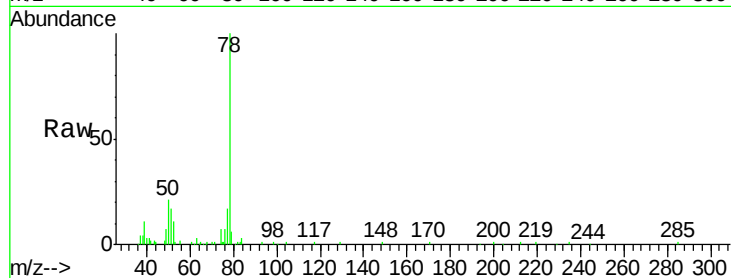
MSVOA_L

ClientSampleId :

SV4DL2

Tgt Ion: 78 Resp: 50105

Ion	Ratio	Lower	Upper
78	100		
77	15.1	19.0	28.4#
50	19.4	14.8	22.2



#39

1,2-Dichloropropane

Concen: 7.148 ppbv

RT: 7.18 min Scan# 1365

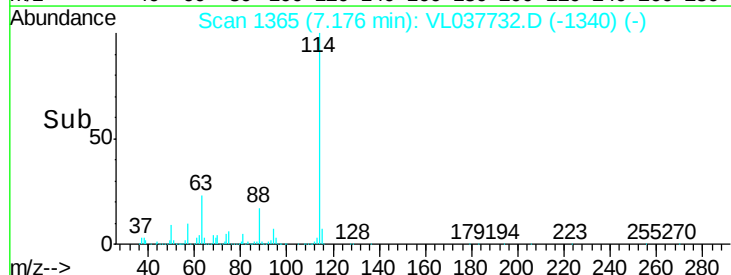
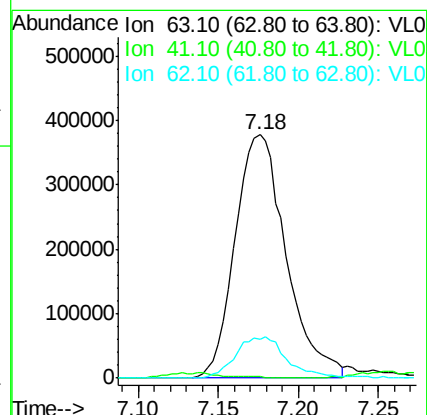
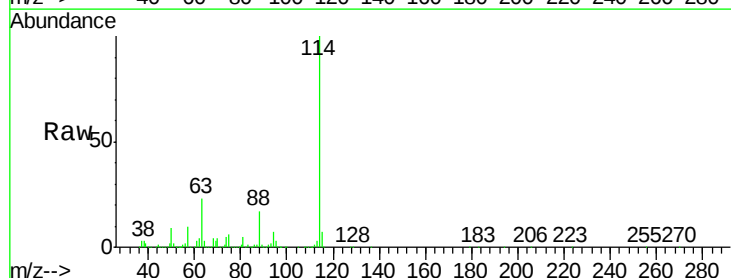
Delta R.T. -0.42 min

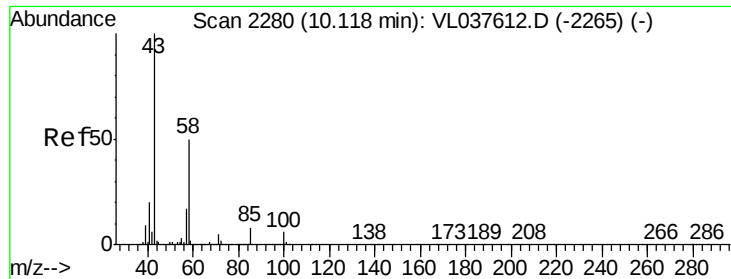
Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Tgt Ion: 63 Resp: 817844

Ion	Ratio	Lower	Upper
63	100		
41	0.1	51.6	77.4#
62	15.9	54.6	81.8#

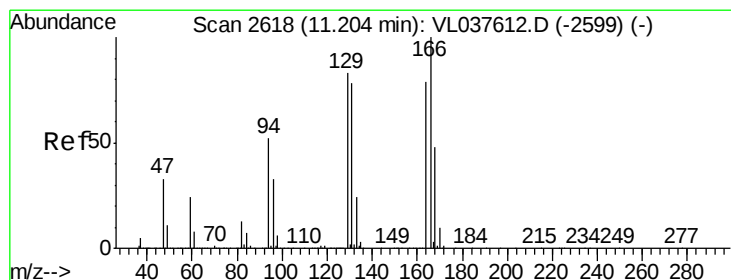
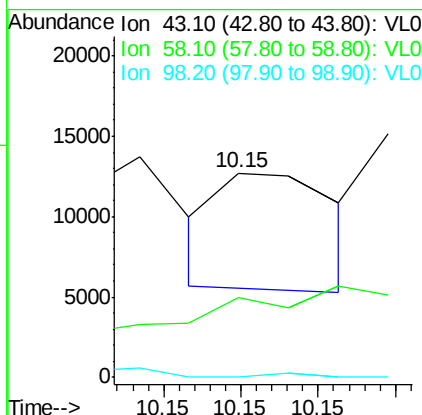
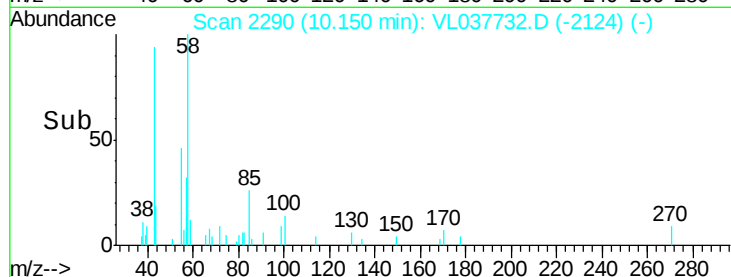
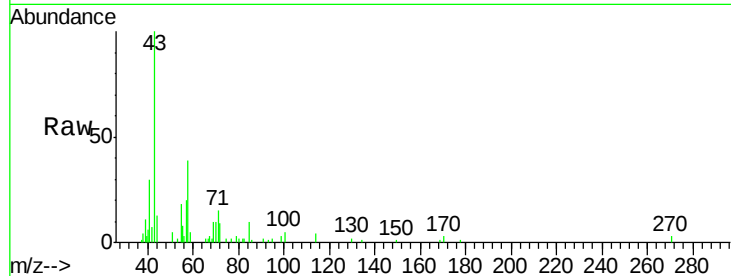




#51
2-Hexanone
Concen: 0.047 ppbv
RT: 10.15 min Scan# 2290
Delta R.T. 0.03 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

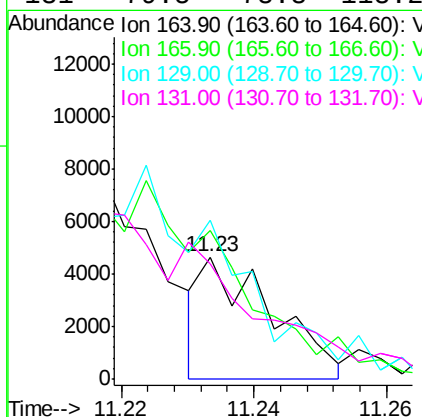
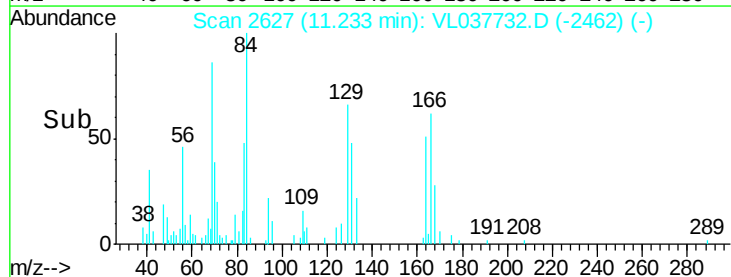
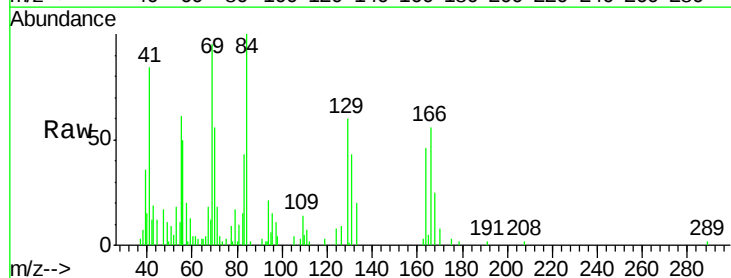
Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

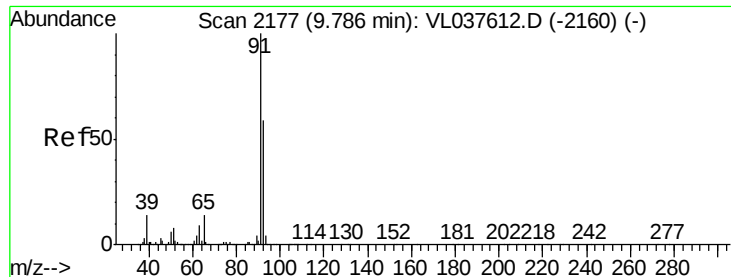
Tgt Ion: 43 Resp: 3794
Ion Ratio Lower Upper
43 100
58 0.0 39.3 58.9#
98 0.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.030 ppbv
RT: 11.23 min Scan# 2627
Delta R.T. 0.03 min
Lab File: VL037732.D
Acq: 29 Sep 2021 16:05

Tgt Ion: 164 Resp: 3459
Ion Ratio Lower Upper
164 100
166 93.9 101.2 151.8#
129 132.3 84.0 126.0#
131 79.5 78.8 118.2





#53

Toluene

Concen: 0.044 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.02 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Instrument :

MSVOA_L

ClientSampleId :

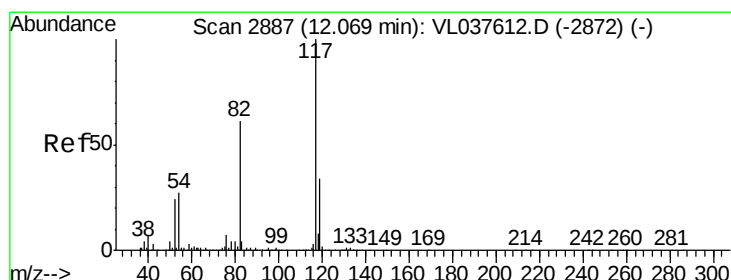
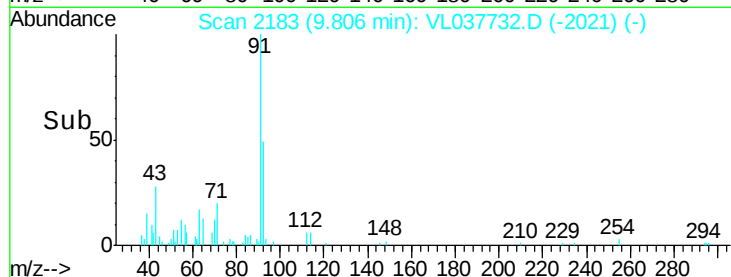
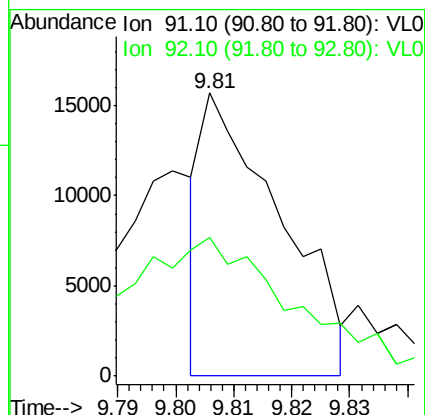
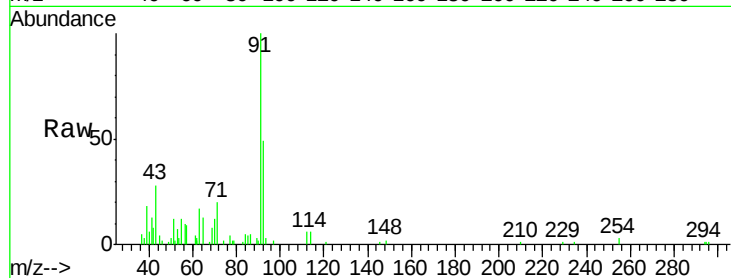
SV4DL2

Tgt Ion: 91 Resp: 14748

Ion Ratio Lower Upper

91 100

92 117.0 48.9 73.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.01 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

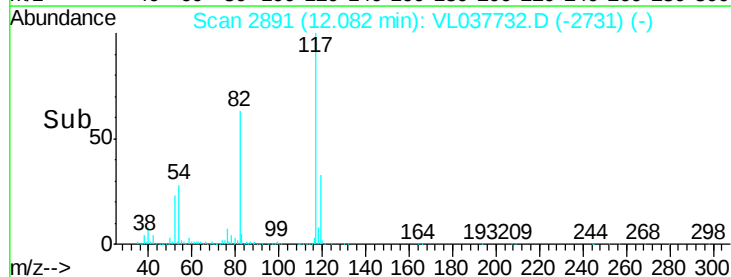
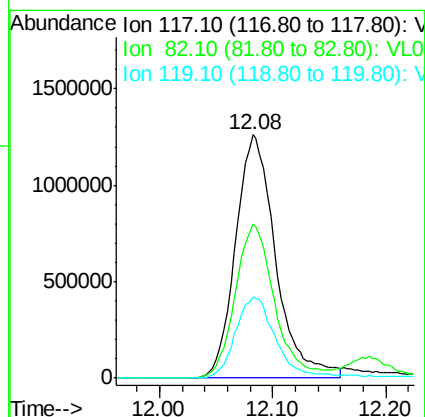
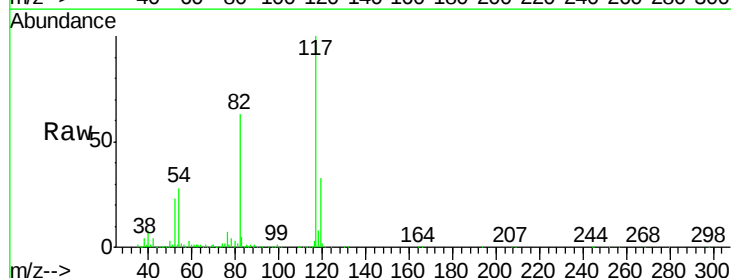
Tgt Ion: 117 Resp: 3120593

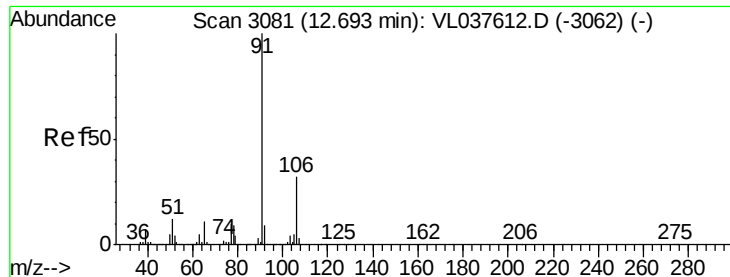
Ion Ratio Lower Upper

117 100

82 61.9 50.6 75.8

119 34.5 26.2 39.2





#58

Ethyl Benzene

Concen: 0.054 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. 0.01 min

Lab File: VL037732.D

Acq: 29 Sep 2021 16:05

Instrument :

MSVOA_L

ClientSampleId :

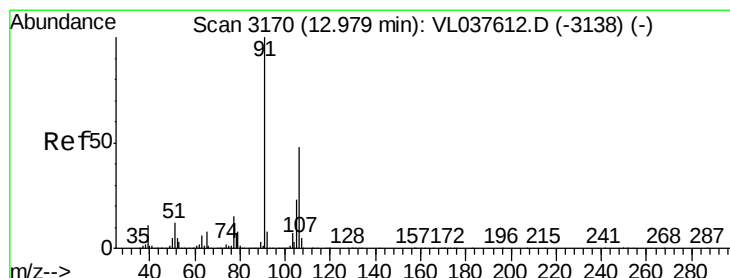
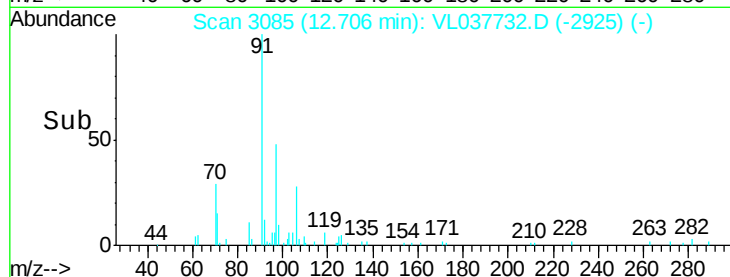
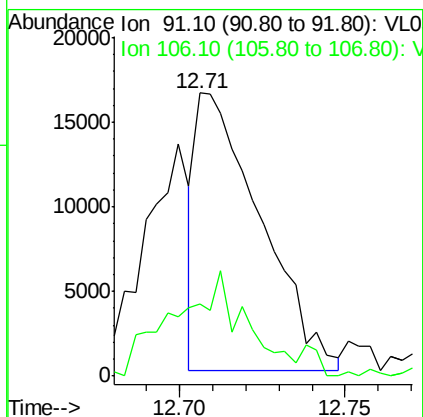
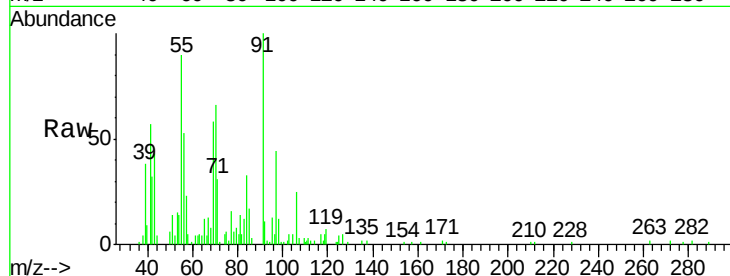
SV4DL2

Tgt Ion: 91 Resp: 22204

Ion Ratio Lower Upper

91 100

106 27.0 25.3 37.9



#59

m/p-Xylene

Concen: 0.352 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. -0.02 min

Lab File: VL037732.D

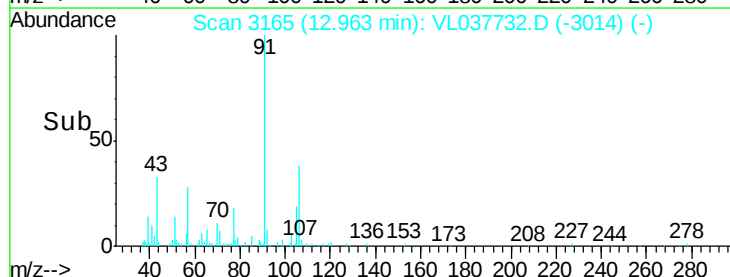
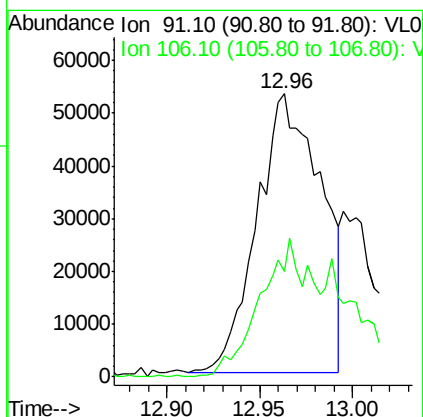
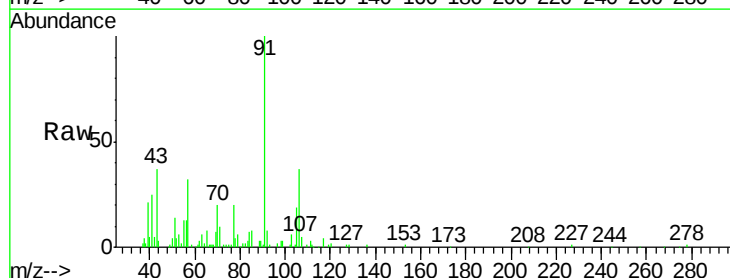
Acq: 29 Sep 2021 16:05

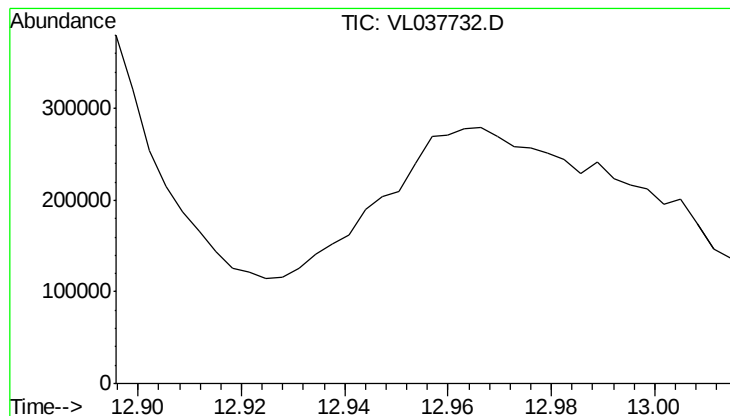
Tgt Ion: 91 Resp: 127166

Ion Ratio Lower Upper

91 100

106 34.0 36.6 55.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 0.000 ppbv
 Expected RT: 14.39 min
 Lab File: VL037732.D
 Acq: 29 Sep 2021 16:05

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL2

Tgt Ion	Exp Ratio
95	100
174	70.4
175	5.5

