

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037508.D
 Acq On : 19 Aug 2021 21:11
 Operator : SY/AP
 Sample : M3480-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 00:23:23 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1426622	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4076723	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3449445	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2378175	9.70	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

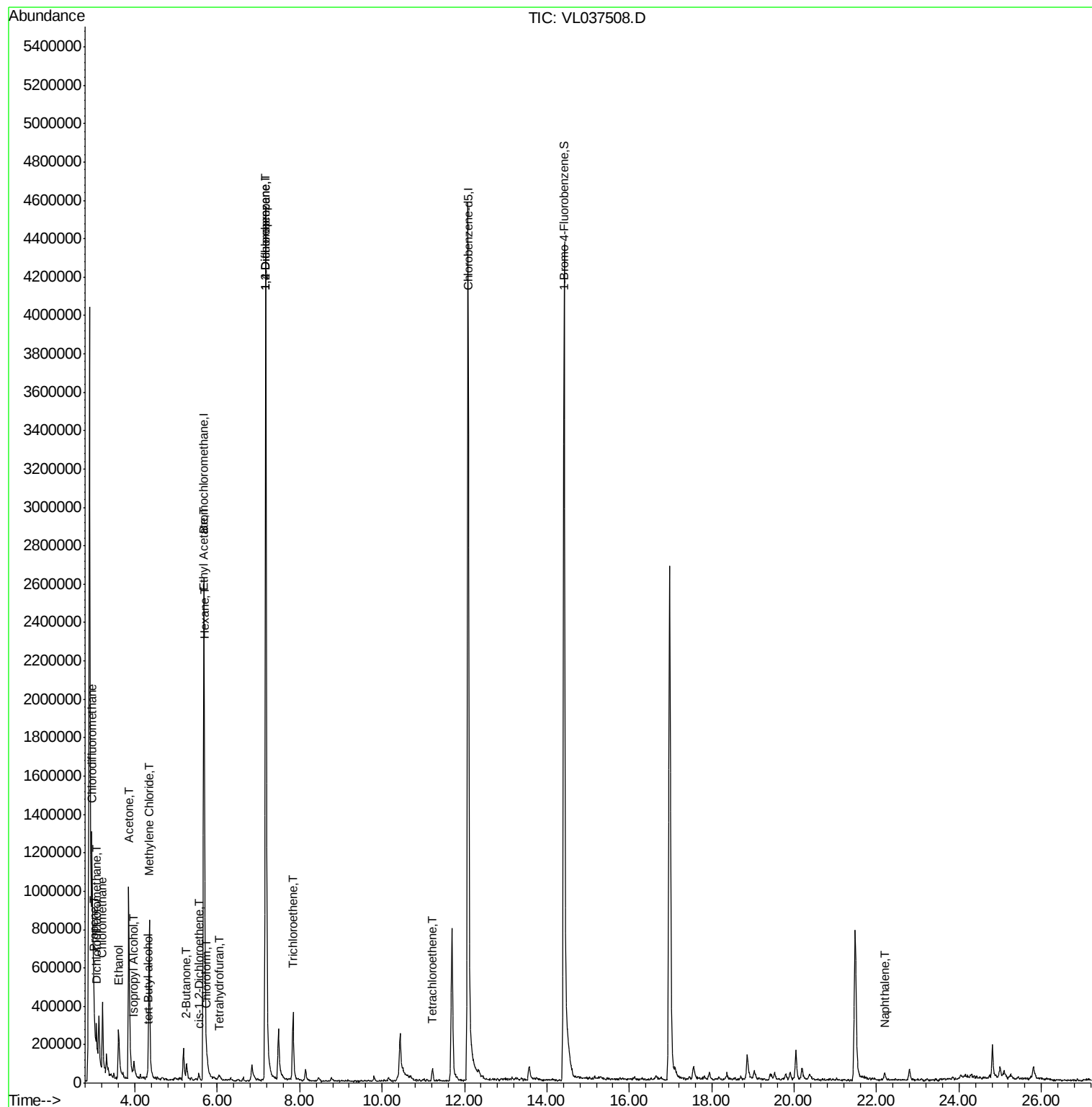
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	7173	0.031 ppbv	88
3) Chlorodifluoromethane	2.97	51	640613	2.345 ppbv #	64
4) Chloromethane	3.21	50	3512	0.036 ppbv #	63
9) Propene	3.02	41	21712	0.222 ppbv #	71
13) Ethanol	3.60	45	358604	37.703 ppbv	93
15) Acetone	3.85	43	1260880	8.684 ppbv	99
17) tert-Butyl alcohol	4.31	59	24452	0.184 ppbv #	72
19) Isopropyl Alcohol	3.97	45	94146	1.132 ppbv #	1
20) Methylene Chloride	4.35	84	341276	4.695 ppbv	93
25) Ethyl Acetate	5.69	43	97130	0.264 ppbv #	79
26) Hexane	5.69	57	253116	1.405 ppbv #	47
29) Chloroform	5.75	83	9767	0.038 ppbv	89
31) cis-1,2-Dichloroethene	5.55	61	16765	0.103 ppbv #	88
34) 2-Butanone	5.25	43	46212	0.278 ppbv #	1
38) Trichloroethene	7.84	130	41888	0.298 ppbv	95
39) 1,2-Dichloropropane	7.18	63	936614	7.112 ppbv #	28
41) Tetrahydrofuran	6.05	42	2635	0.033 ppbv #	36
52) Tetrachloroethene	11.22	164	14064	0.100 ppbv #	58
79) Naphthalene	22.20	128	13044	0.043 ppbv #	83

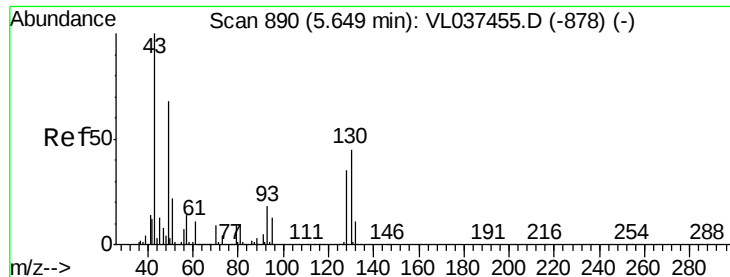
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 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: VL037508.D

Acq: 19 Aug 2021 21:11

Instrument :

MSVOA_L

ClientSampleId :

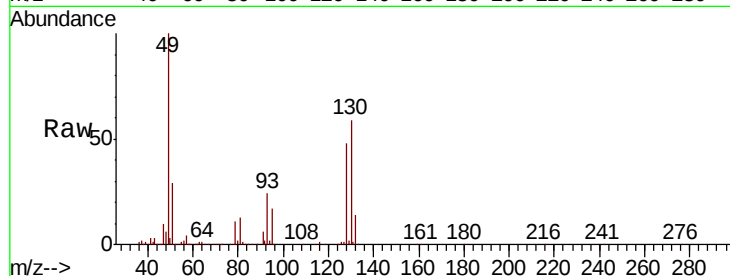
Tot Ion: 49 Resp: 1426622

Ion Ratio Lower Upper

49 100

128 52.4 27.5 82.4

130 67.4 34.0 101.8



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

800000

600000

400000

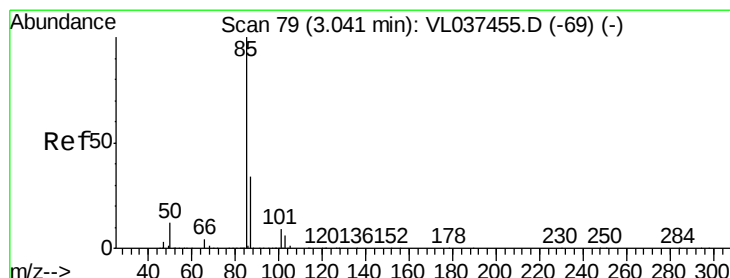
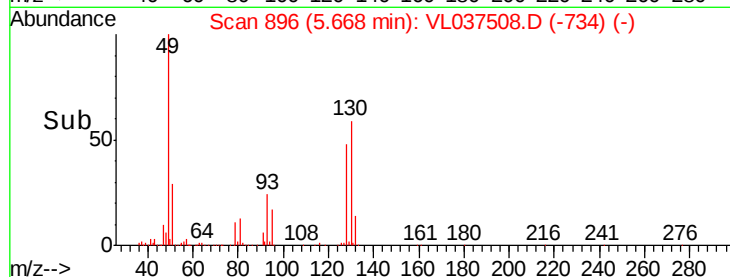
200000

0

5.60

5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.031 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL037508.D

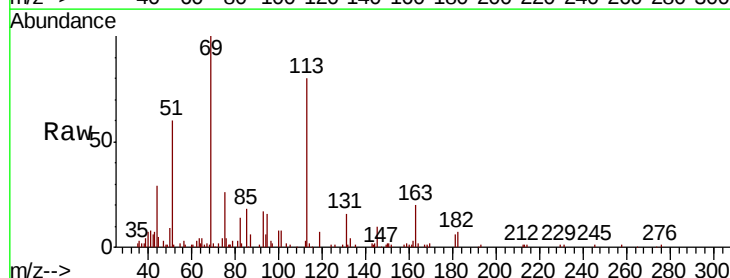
Acq: 19 Aug 2021 21:11

Tgt Ion: 85 Resp: 7173

Ion Ratio Lower Upper

85 100

87 27.8 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

8000

6000

4000

2000

0

3.03

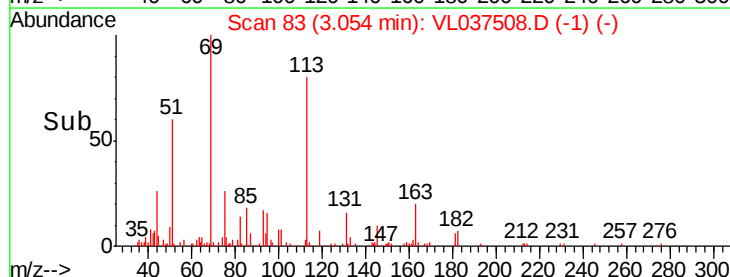
3.04

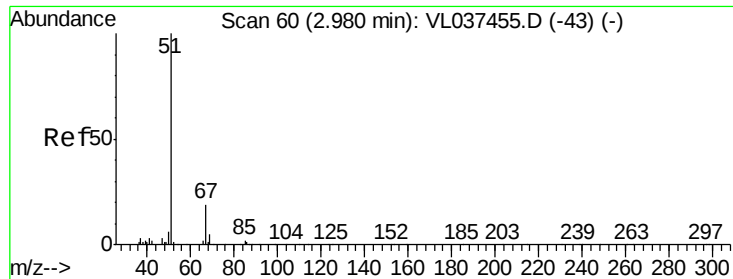
3.05

3.06

3.07

Time-->

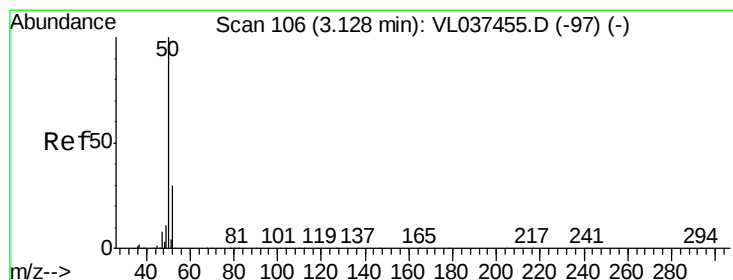
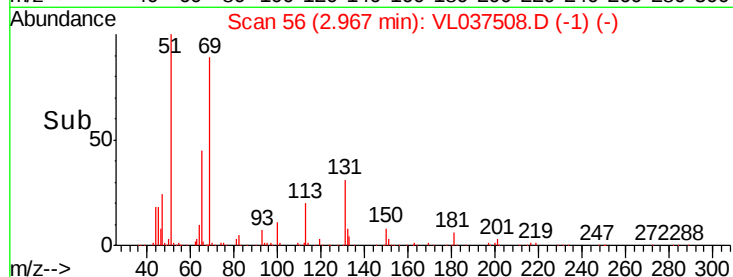
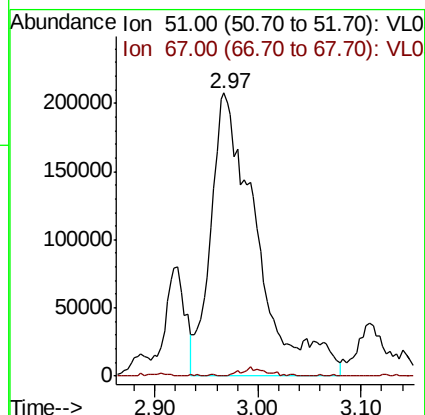
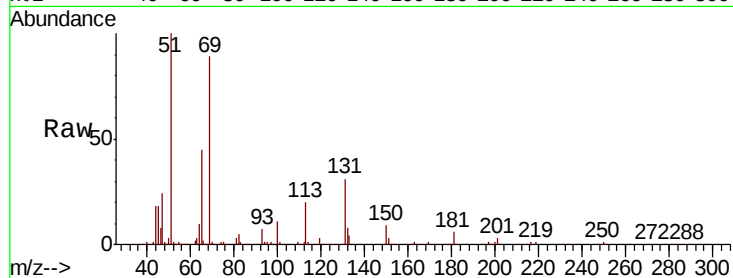




#3
Chlorodifluoromethane
Concen: 2.345 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.01 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

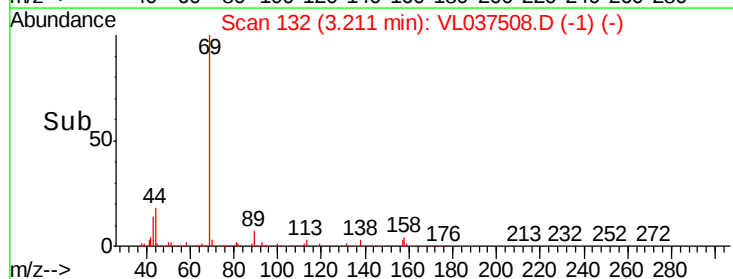
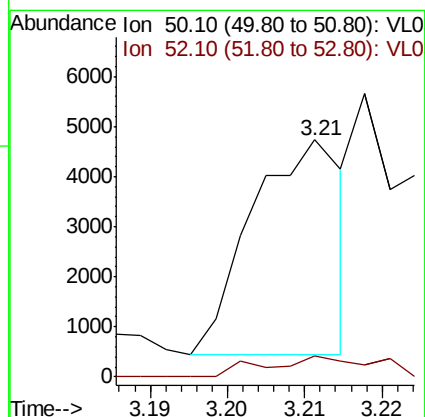
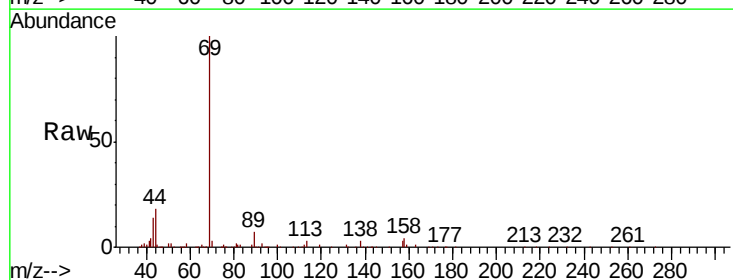
Instrument :
MSVOA_L
ClientSampleId :

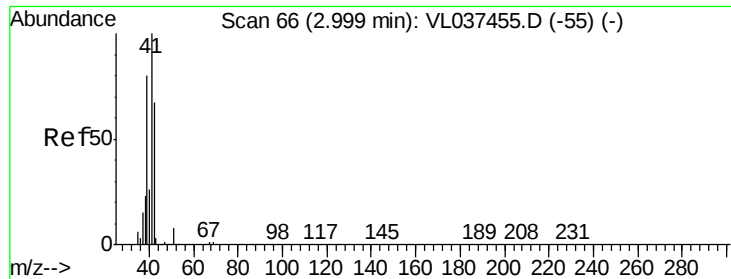
Tot Ion: 51 Resp: 640613
Ion Ratio Lower Upper
51 100
67 1.9 14.2 21.2#



#4
Chloromethane
Concen: 0.036 ppbv
RT: 3.21 min Scan# 132
Delta R.T. 0.08 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

Tgt Ion: 50 Resp: 3512
Ion Ratio Lower Upper
50 100
52 9.9 24.0 36.0#





#9

Propene

Concen: 0.222 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.02 min

Lab File: VL037508.D

Acq: 19 Aug 2021 21:11

Instrument :

MSVOA_L

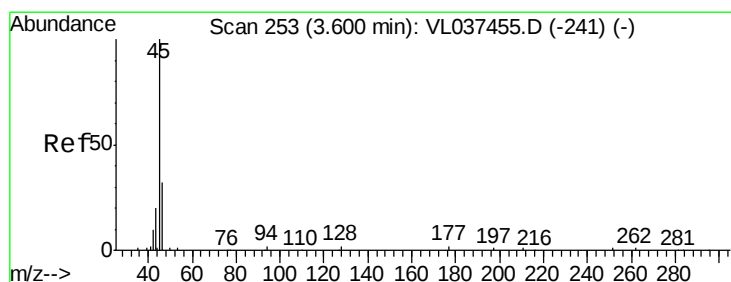
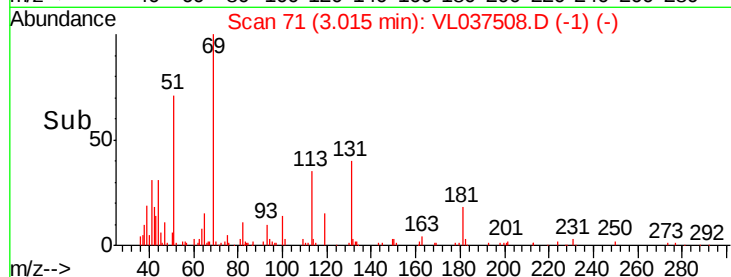
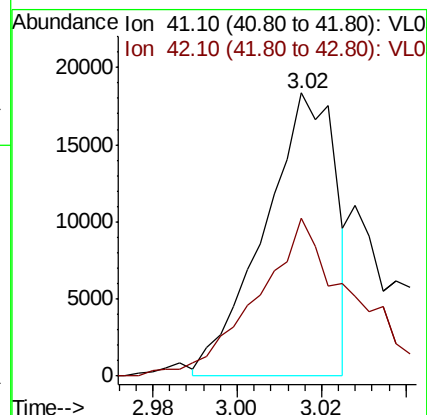
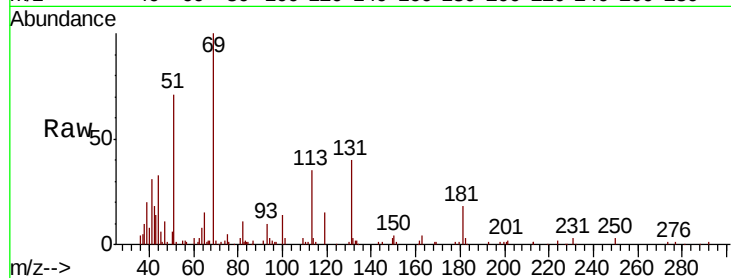
ClientSampled :

Tot Ion: 41 Resp: 21712

Ion Ratio Lower Upper

41 100

42 90.2 53.7 80.5#



#13

Ethanol

Concen: 37.703 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL037508.D

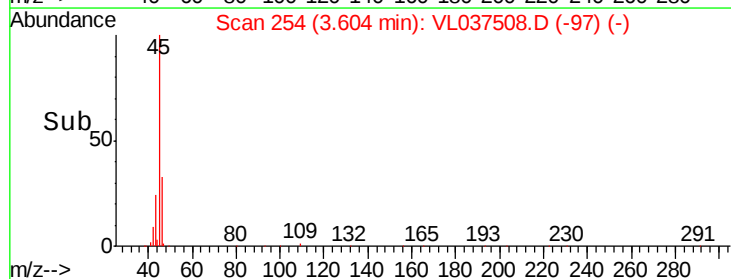
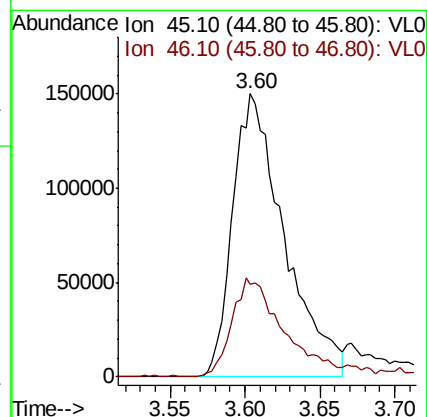
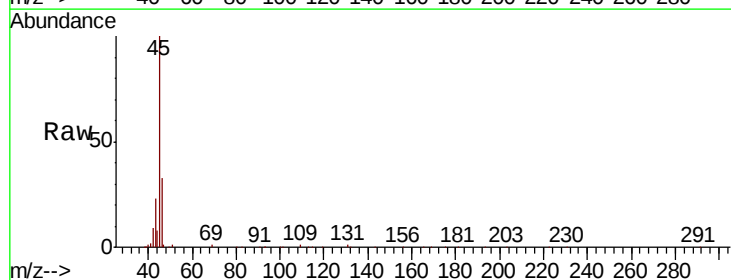
Acq: 19 Aug 2021 21:11

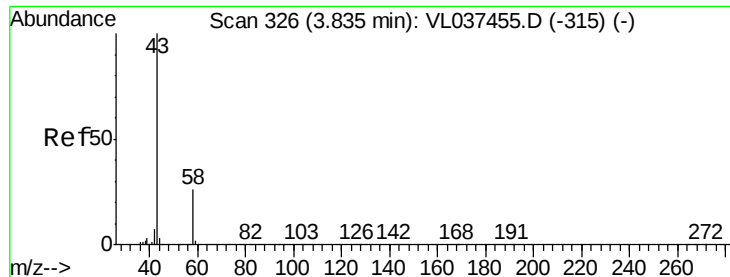
Tgt Ion: 45 Resp: 358604

Ion Ratio Lower Upper

45 100

46 39.6 14.1 56.5





#15

Acetone

Concen: 8.684 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.02 min

Lab File: VL037508.D

Acq: 19 Aug 2021 21:11

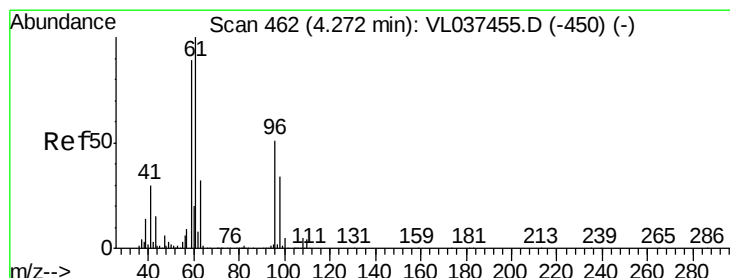
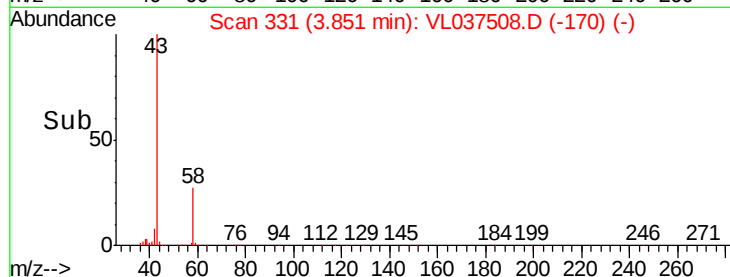
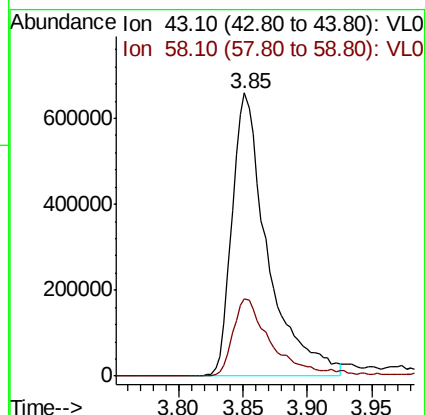
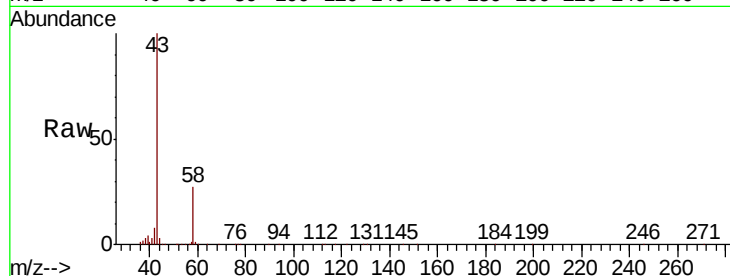
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1260880

Ion Ratio Lower Upper

43 100

58 30.6 24.8 37.2



#17

tert-Butyl alcohol

Concen: 0.184 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.04 min

Lab File: VL037508.D

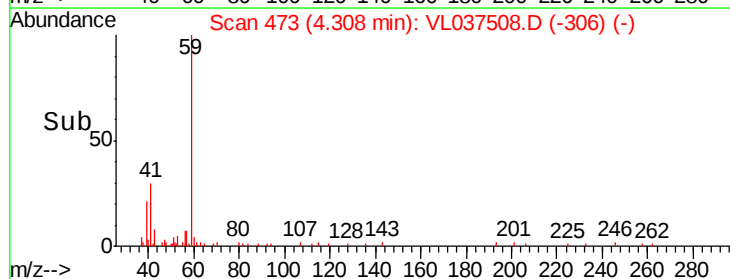
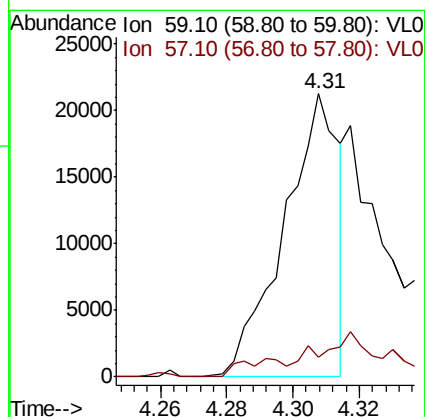
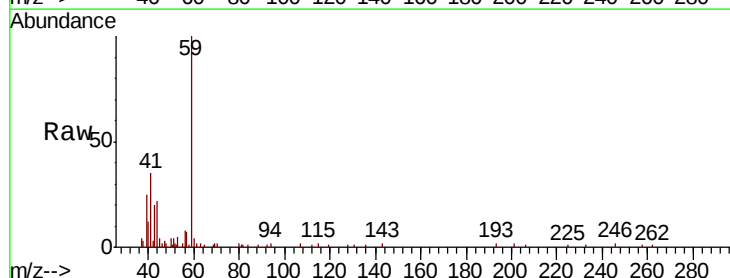
Acq: 19 Aug 2021 21:11

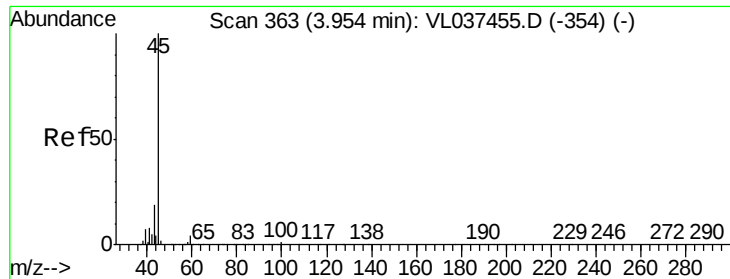
Tgt Ion: 59 Resp: 24452

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 1.132 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL037508.D

Acq: 19 Aug 2021 21:11

Instrument :

MSVOA_L

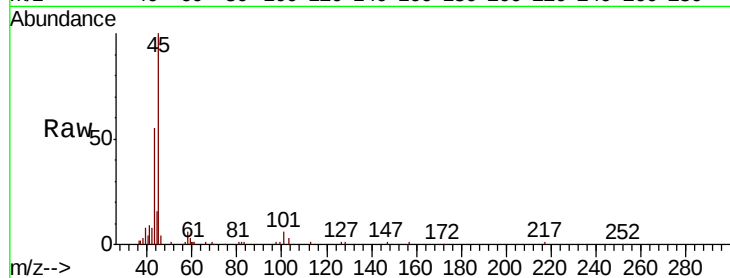
ClientSampled :

Tot Ion: 45 Resp: 94146

Ion Ratio Lower Upper

45 100

58 417.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

50000

40000

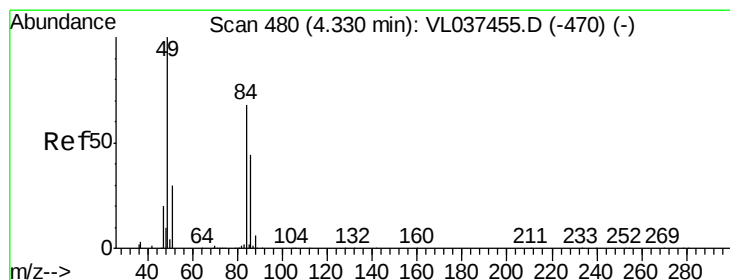
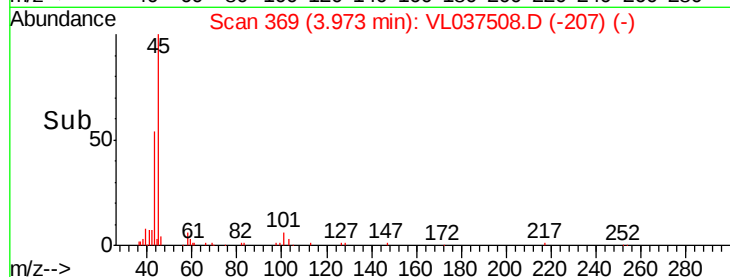
30000

20000

10000

0

Time-->



#20

Methylene Chloride

Concen: 4.695 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL037508.D

Acq: 19 Aug 2021 21:11

Tgt Ion: 84 Resp: 341276

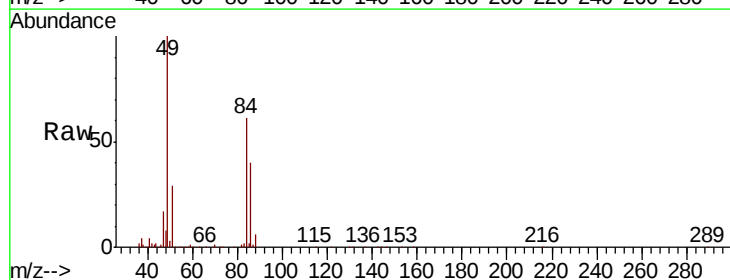
Ion Ratio Lower Upper

84 100

49 162.7 118.2 177.2

51 47.1 36.6 55.0

86 64.8 51.8 77.6



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

400000

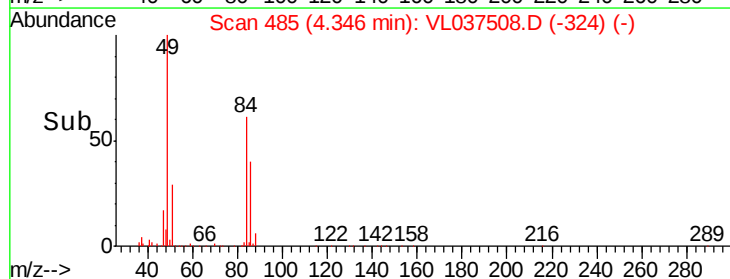
300000

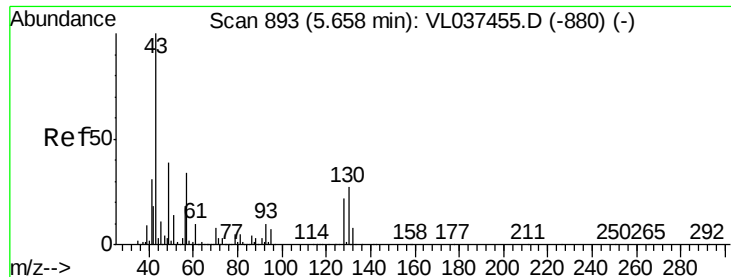
200000

100000

0

Time-->

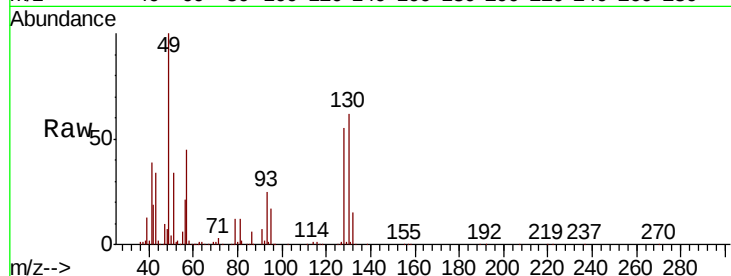




#25
Ethyl Acetate
Concen: 0.264 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.03 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	97130
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.0	12.0#
61	2.2	8.0	12.0#
70	0.0	5.6	8.4#



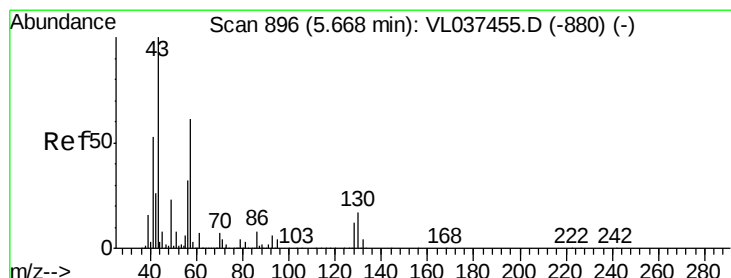
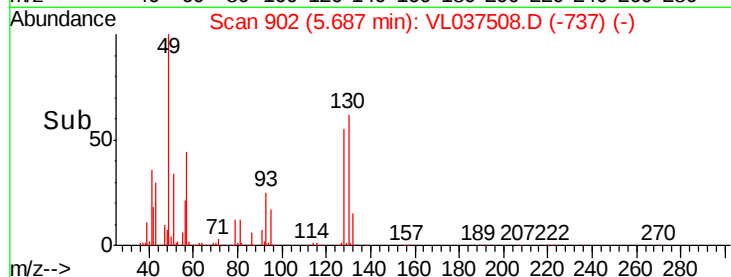
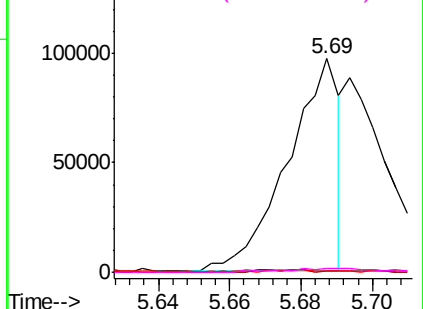
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

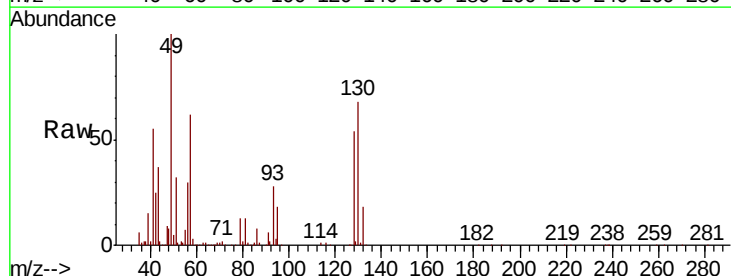
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.405 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.02 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

Tgt Ion:	57	Resp:	253116
Ion	Ratio	Lower	Upper
57	100		
41	88.5	72.3	108.5
43	77.0	172.3	258.5#
56	55.8	42.8	64.2



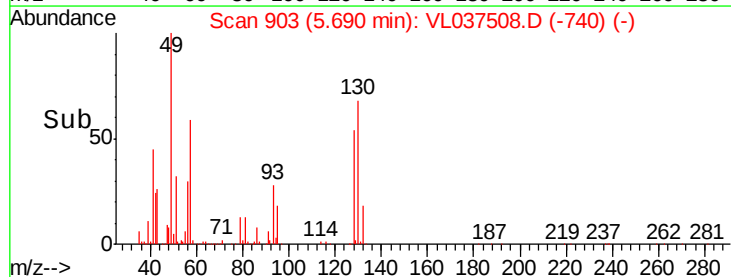
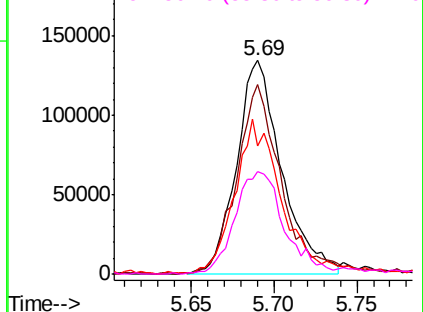
Abundance

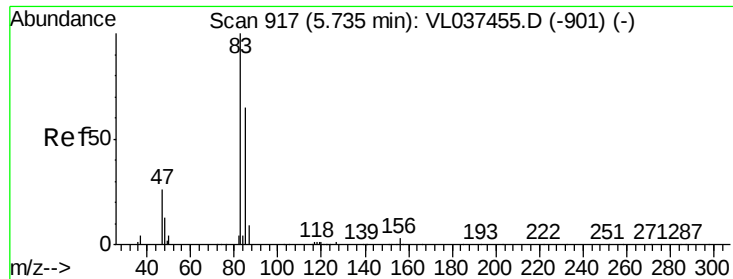
Ion 57.10 (56.80 to 57.80): VL0

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

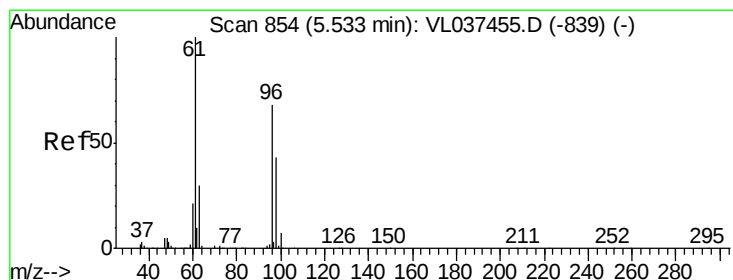
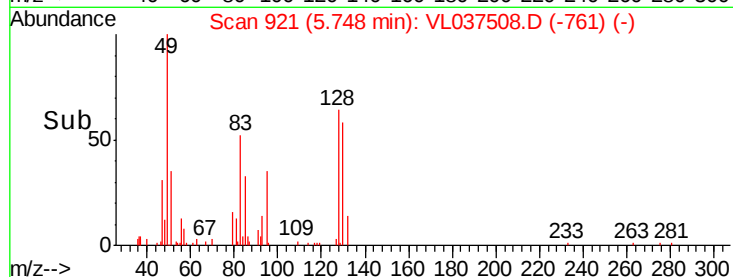
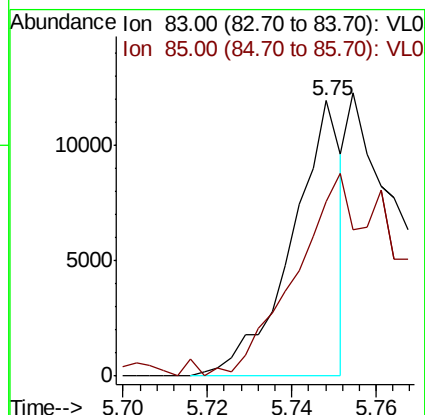
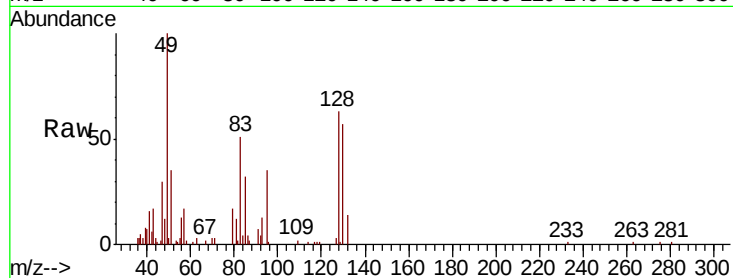




#29
Chloroform
Concen: 0.038 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.01 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

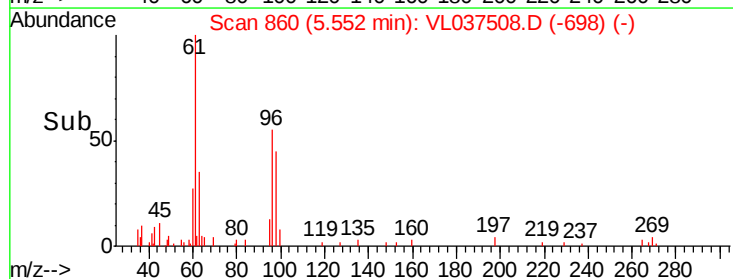
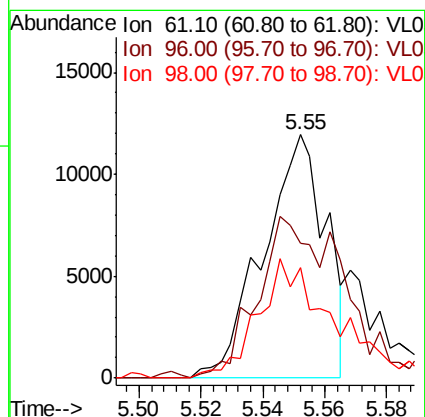
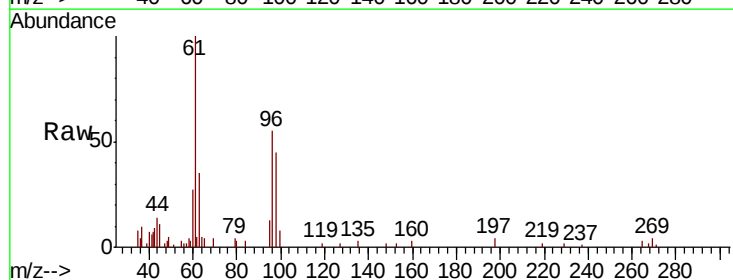
Instrument :
MSVOA_L
ClientSampled :

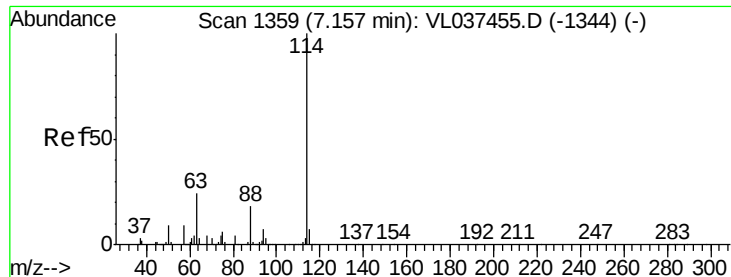
Tot Ion: 83 Resp: 9767
Ion Ratio Lower Upper
83 100
85 56.9 52.3 78.5



#31
cis-1,2-Dichloroethene
Concen: 0.103 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.02 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

Tgt Ion: 61 Resp: 16765
Ion Ratio Lower Upper
61 100
96 52.4 54.8 82.2#
98 42.9 34.2 51.2

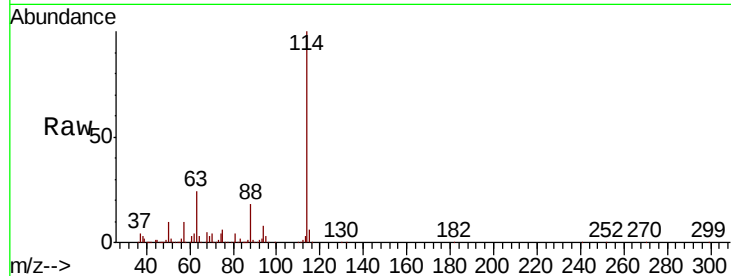




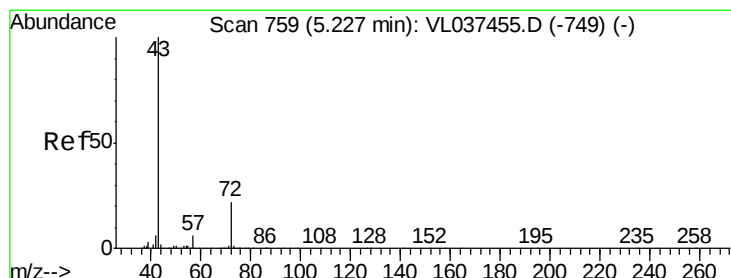
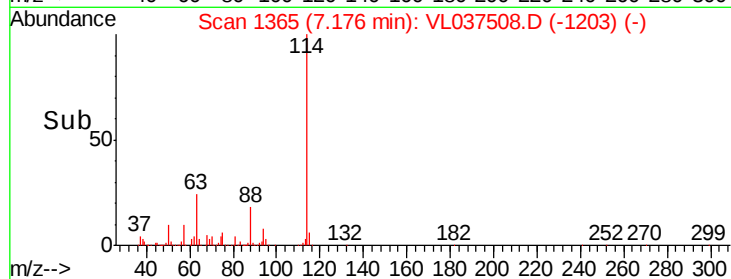
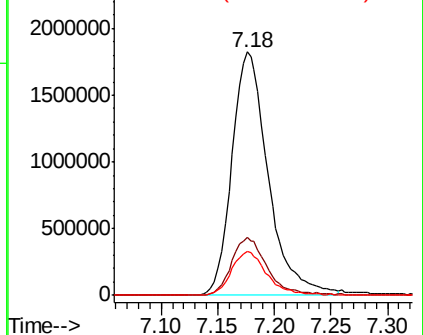
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.02 min
 Lab File: VL037508.D
 Acq: 19 Aug 2021 21:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4076723
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.3 28.9
 88 18.1 14.2 21.4

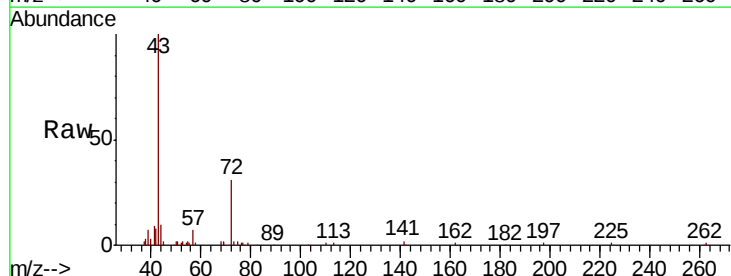


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

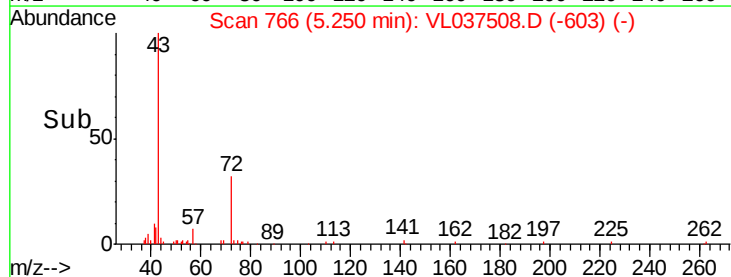
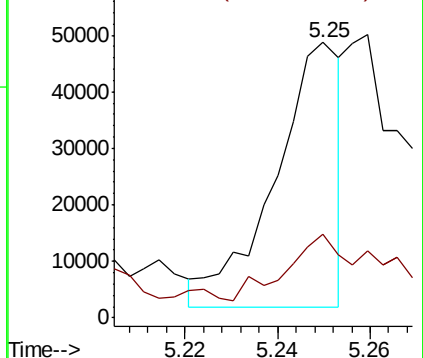


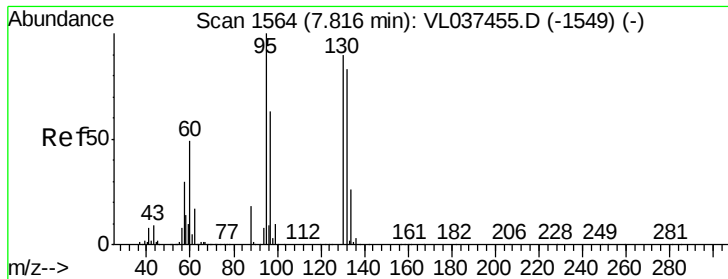
#34
 2-Butanone
 Concen: 0.278 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL037508.D
 Acq: 19 Aug 2021 21:11

Tgt Ion: 43 Resp: 46212
 Ion Ratio Lower Upper
 43 100
 72 75.4 17.4 26.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

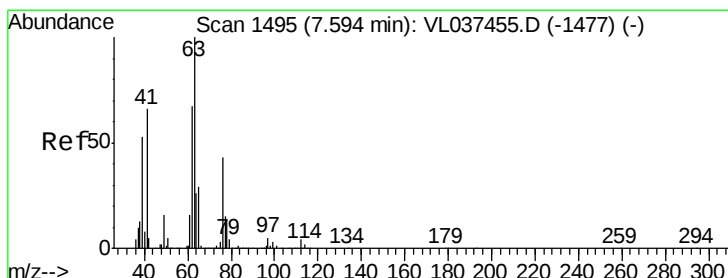
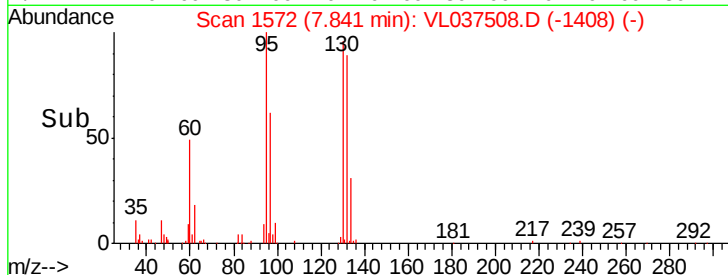
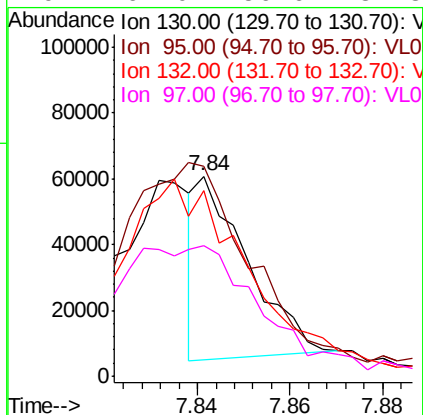
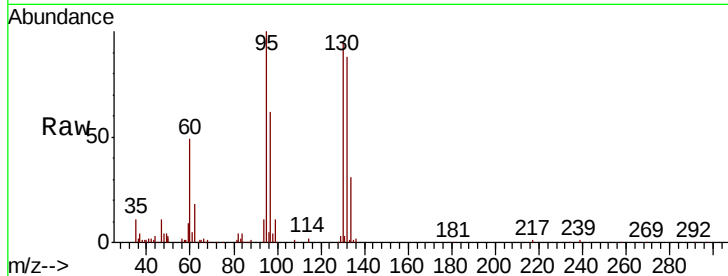




#38
 Trichloroethene
 Concen: 0.298 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.03 min
 Lab File: VL037508.D
 Acq: 19 Aug 2021 21:11

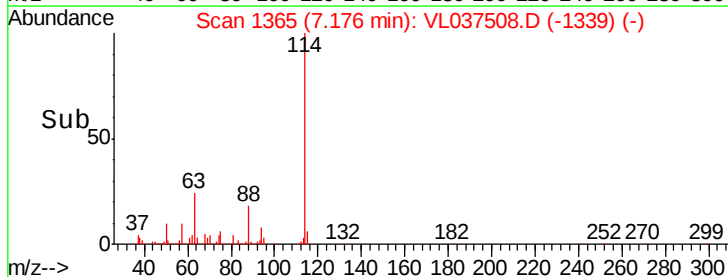
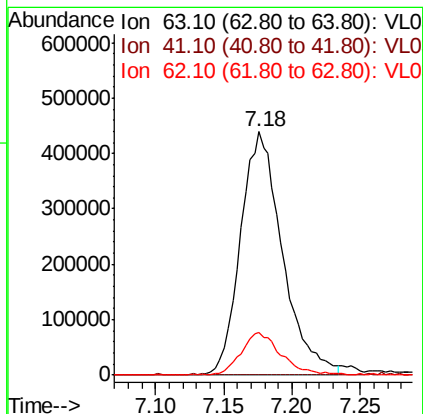
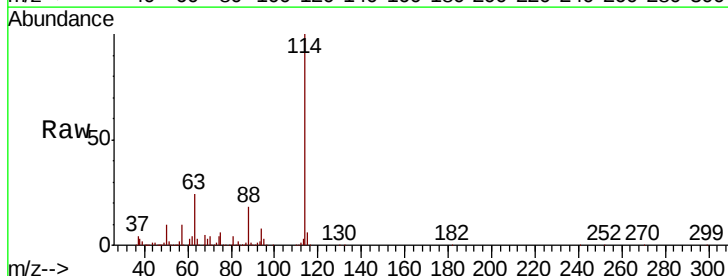
Instrument :
 MSVOA_L
 ClientSampleId :

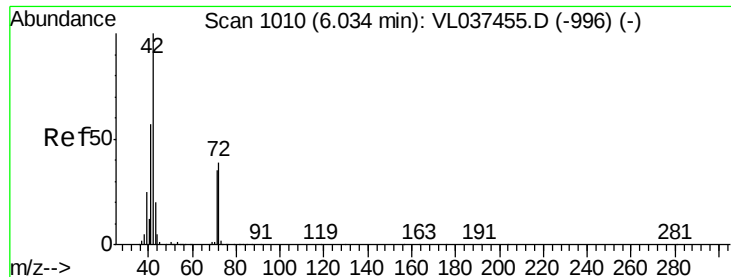
Tot Ion:130	Resp:	41888
Ion Ratio	Lower	Upper
130	100	
95	104.5	89.2 133.8
132	92.2	74.0 111.0
97	62.0	56.6 84.8



#39
 1,2-Dichloropropane
 Concen: 7.112 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.42 min
 Lab File: VL037508.D
 Acq: 19 Aug 2021 21:11

Tgt Ion: 63	Resp:	936614
Ion Ratio	Lower	Upper
63	100	
41	0.1	52.4 78.6#
62	17.6	53.6 80.4#





#41

Tetrahydrofuran

Concen: 0.033 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. 0.01 min

Lab File: VL037508.D

Acq: 19 Aug 2021 21:11

Instrument :

MSVOA_L

ClientSampleId :

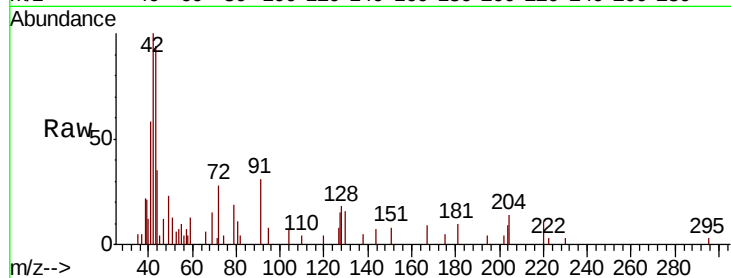
Tot Ion: 42 Resp: 2635

Ion Ratio Lower Upper

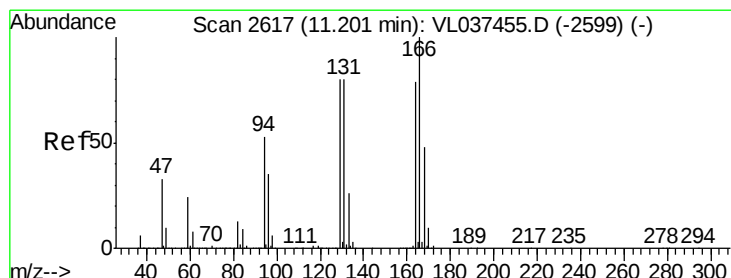
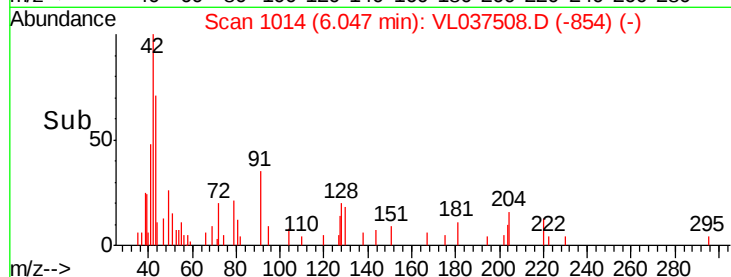
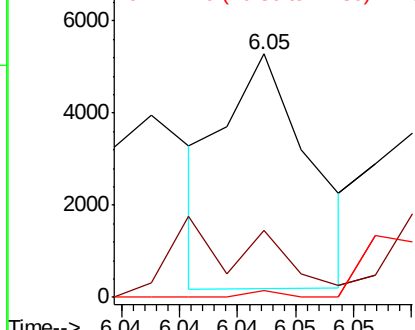
42 100

72 0.0 32.2 48.4#

71 0.0 30.5 45.7#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#52

Tetrachloroethene

Concen: 0.100 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. 0.02 min

Lab File: VL037508.D

Acq: 19 Aug 2021 21:11

Tgt Ion: 164 Resp: 14064

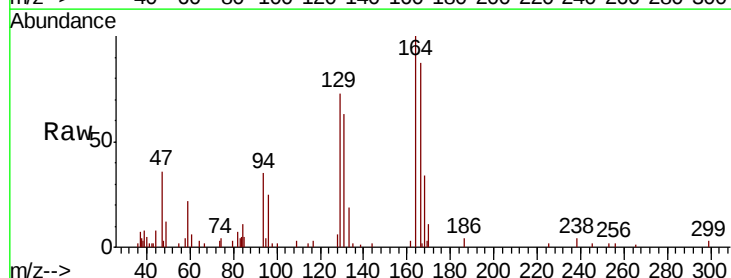
Ion Ratio Lower Upper

164 100

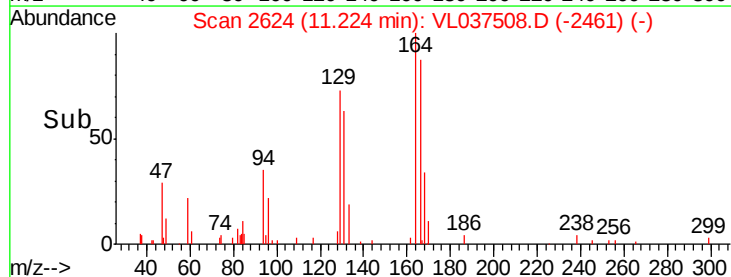
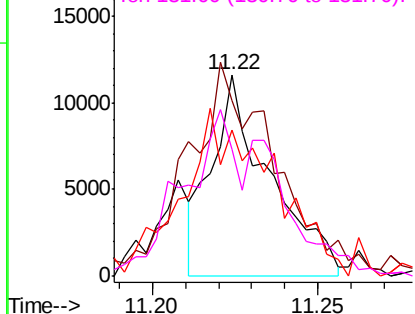
166 72.9 100.7 151.1#

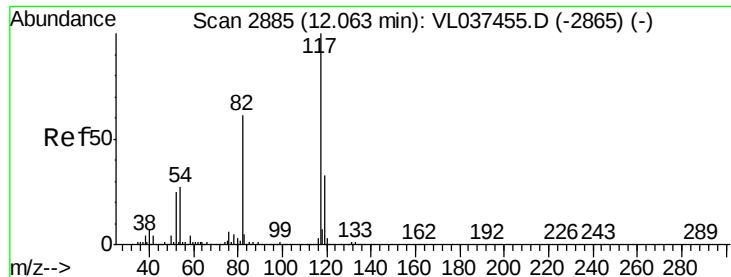
129 67.2 80.9 121.3#

131 55.1 80.2 120.4#



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

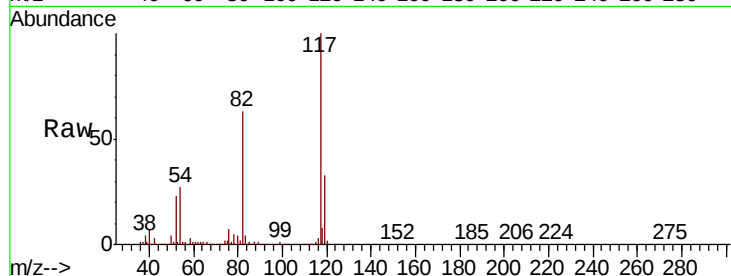




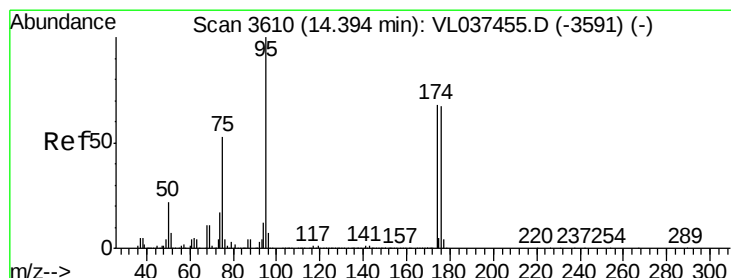
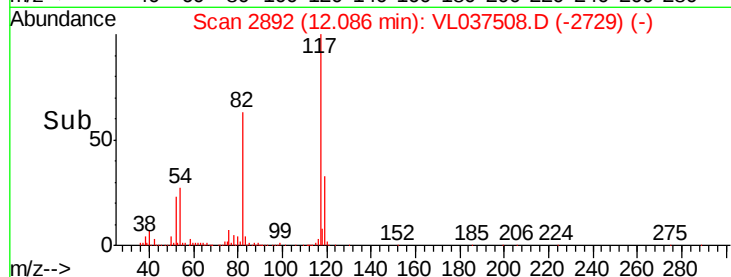
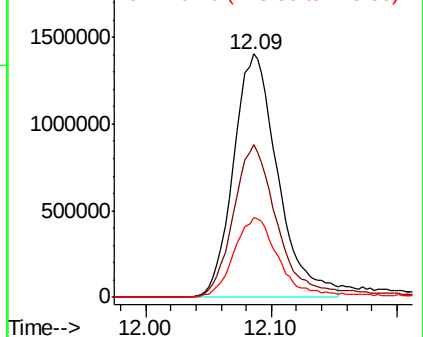
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. 0.02 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3449445
Ion Ratio Lower Upper
117 100
82 67.2 52.9 79.3
119 33.8 24.8 37.2

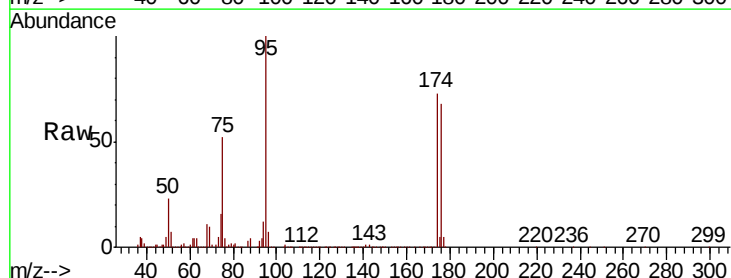


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

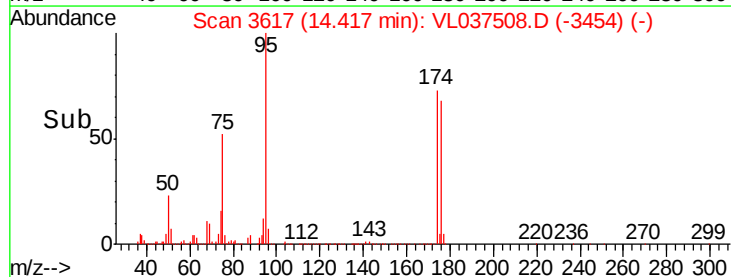
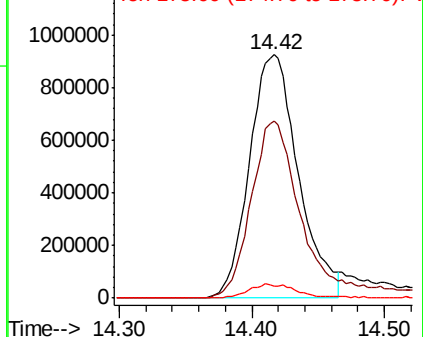


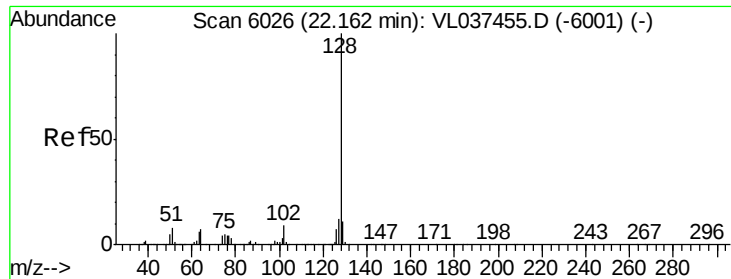
#68
1-Bromo-4-Fluorobenzene
Concen: 9.704 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.02 min
Lab File: VL037508.D
Acq: 19 Aug 2021 21:11

Tgt Ion: 95 Resp: 2378175
Ion Ratio Lower Upper
95 100
174 80.7 59.6 89.4
175 6.2 4.6 7.0



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





#79

Naphthalene

Concen: 0.043 ppbv

RT: 22.20 min Scan# 6039

Delta R.T. 0.04 min

Lab File: VL037508.D

Acq: 19 Aug 2021 21:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:128 Resp: 13044

Ion Ratio Lower Upper

128 100

127 9.3 9.4 14.2#

129 0.0 8.8 13.2#

