

Data File : VL036697.D
Acq On : 6 Apr 2021 10:29
Operator : SY/AP
Sample : VIBLK
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Quant Time: Apr 06 11:45:37 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	1270235	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3186871	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2779413	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2218565	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

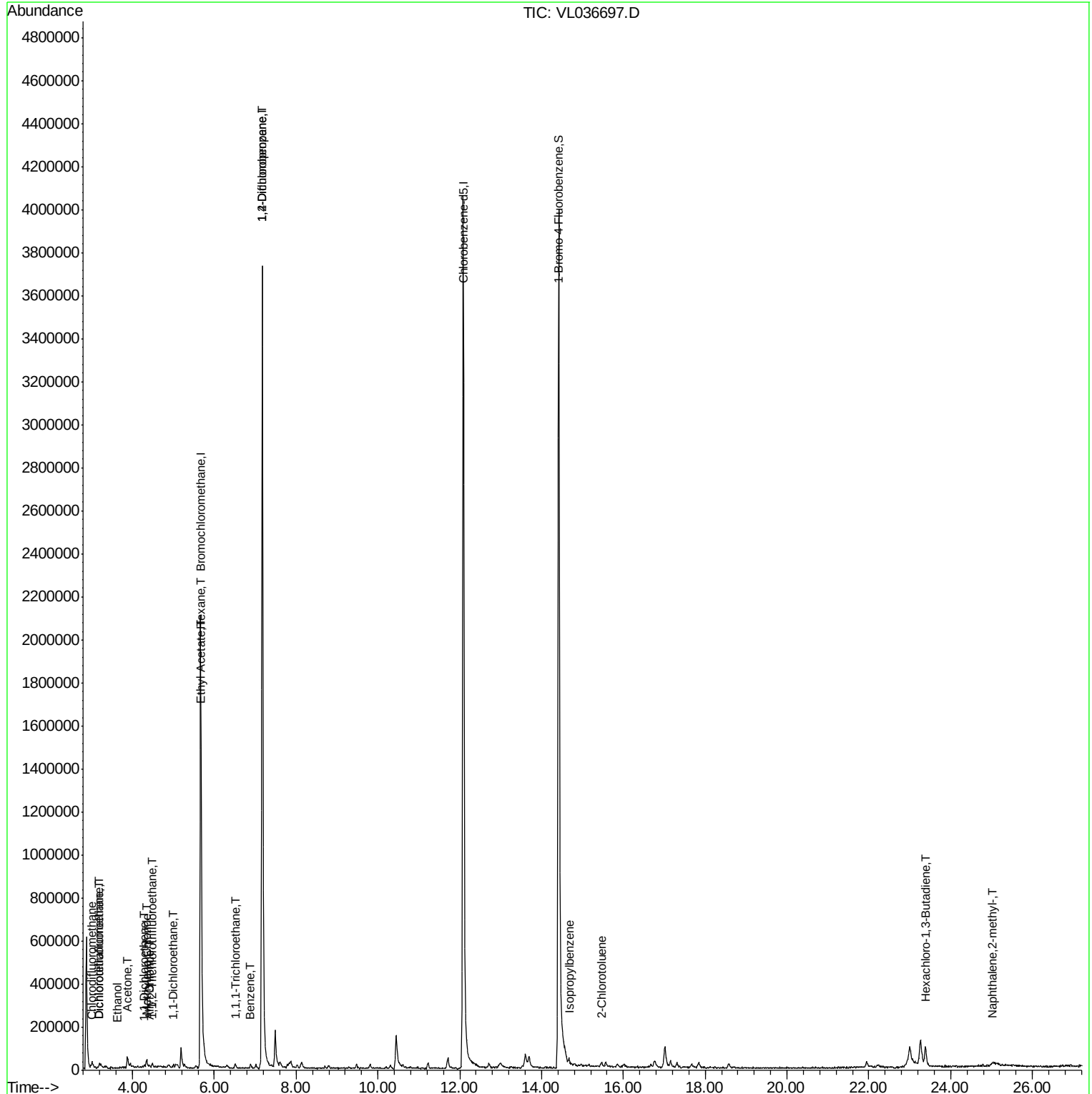
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.18	85	10245	0.049	ppbv	93
3) Chlorodifluoromethane	2.99	51	15353	0.065	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	10245	0.052	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4167	0.031	ppbv #	41
13) Ethanol	3.61	45	389	0.043	ppbv #	34
15) Acetone	3.87	43	43965	0.352	ppbv #	48
18) 1,1-Dichloroethene	4.29	96	2402	0.040	ppbv	81
20) Methylene Chloride	4.34	84	7460	0.127	ppbv #	80
21) Allyl Chloride	4.41	41	3194	0.032	ppbv #	20
24) 1,1-Dichloroethane	5.01	63	7904	0.051	ppbv #	94
25) Ethyl Acetate	5.69	43	11599	0.039	ppbv #	77
26) Hexane	5.68	57	6024	0.044	ppbv #	1
32) 1,1,1-Trichloroethane	6.51	97	10760	0.048	ppbv #	85
36) Benzene	6.89	78	9710	0.033	ppbv #	89
39) 1,2-Dichloropropane	7.17	63	811033	6.802	ppbv #	24
62) Isopropylbenzene	14.68	105	16603	0.036	ppbv	98
71) 2-Chlorotoluene	15.47	91	11441	0.033	ppbv	68
78) Hexachloro-1,3-Butadiene	23.38	225	11779	0.067	ppbv #	1
80) Naphthalene,2-methyl-	25.02	142	19389	0.451	ppbv #	78

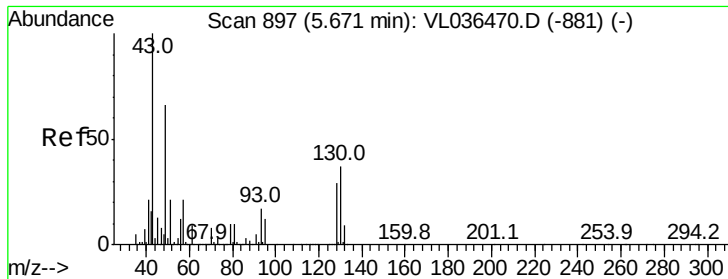
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

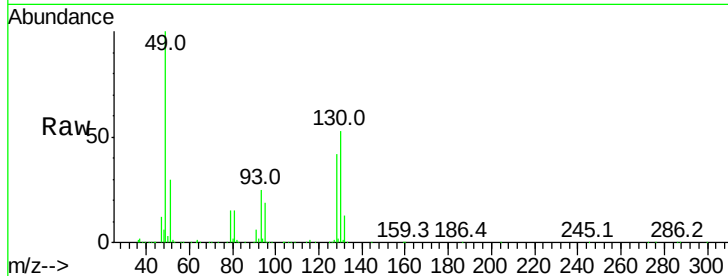
Tgt Ion: 49 Resp: 1270235

Ion Ratio Lower Upper

49 100

128 47.9 23.5 70.6

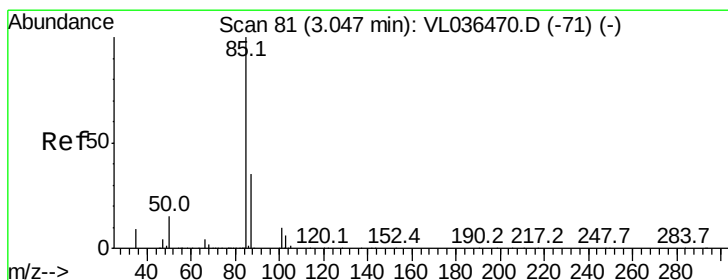
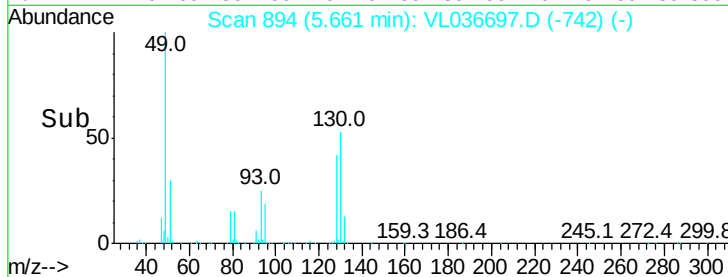
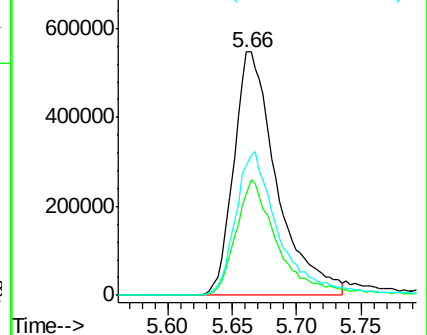
130 61.0 29.1 87.4



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



#2

Dichlorodifluoromethane

Concen: 0.049 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.13 min

Lab File: VL036697.D

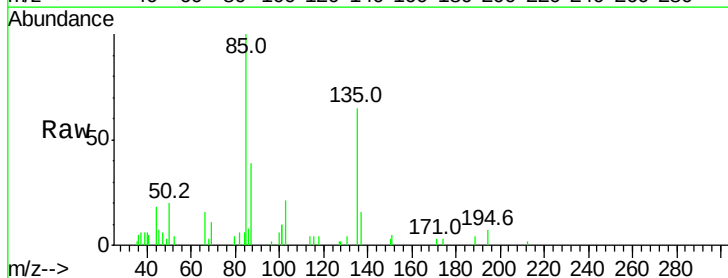
Acq: 6 Apr 2021 10:29

Tgt Ion: 85 Resp: 10245

Ion Ratio Lower Upper

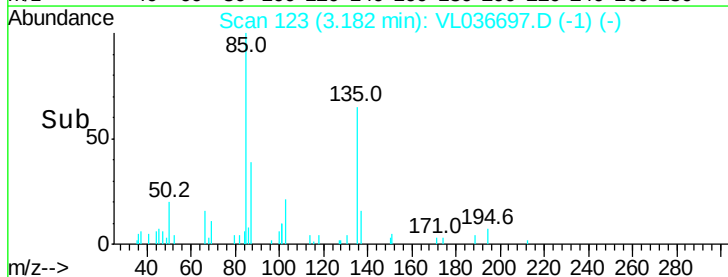
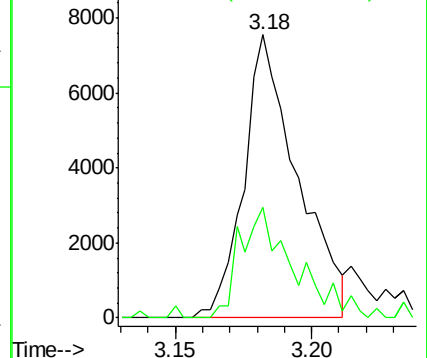
85 100

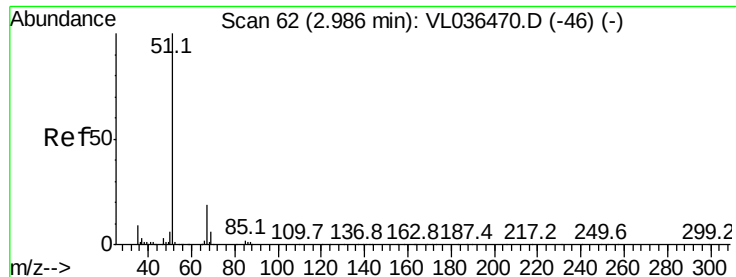
87 39.1 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.065 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

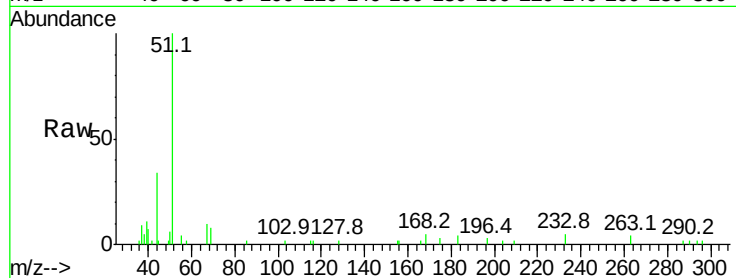
VIBLK

Tgt Ion: 51 Resp: 15353

Ion Ratio Lower Upper

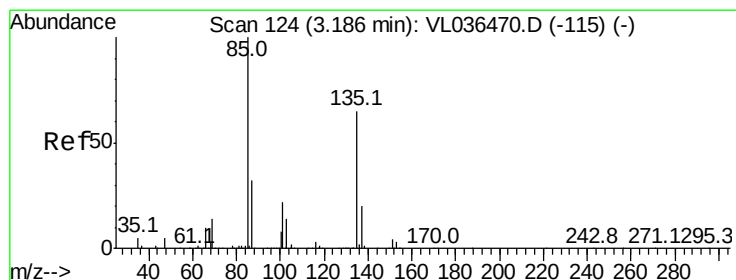
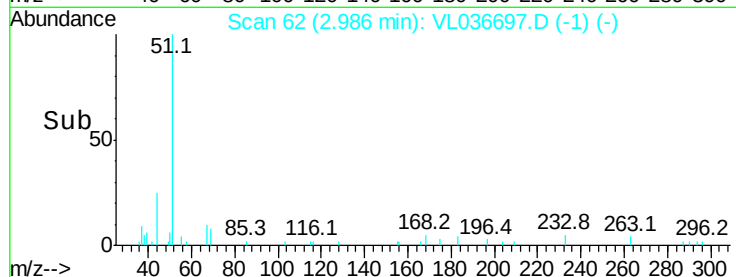
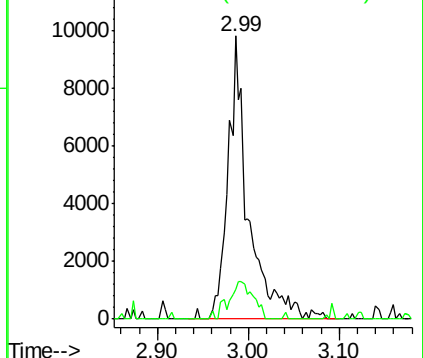
51 100

67 15.6 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.052 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL036697.D

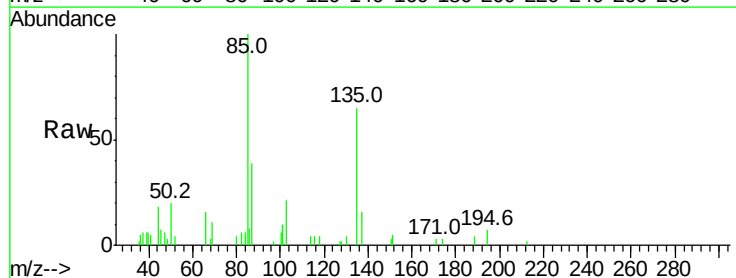
Acq: 6 Apr 2021 10:29

Tgt Ion: 85 Resp: 10245

Ion Ratio Lower Upper

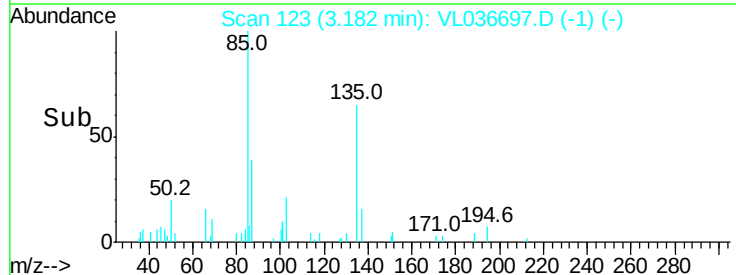
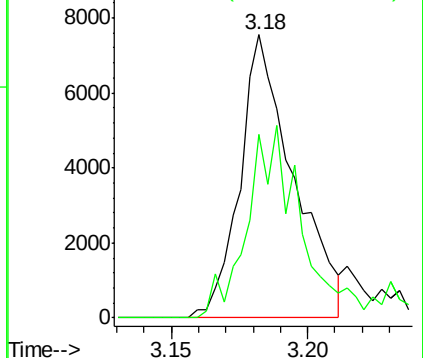
85 100

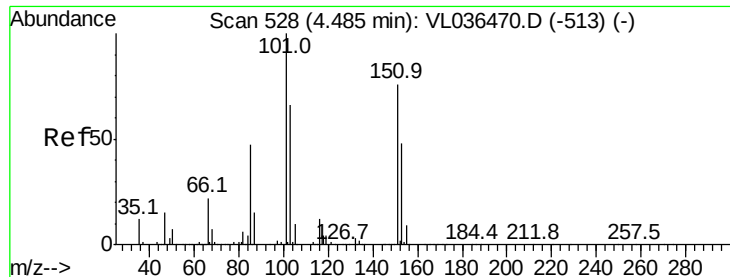
135 74.4 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.00 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

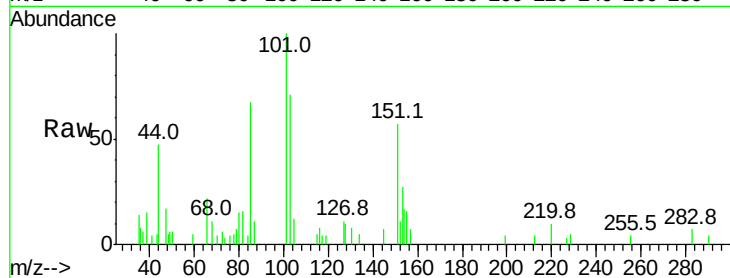
VIBLK

Tgt Ion:101 Resp: 4167

Ion Ratio Lower Upper

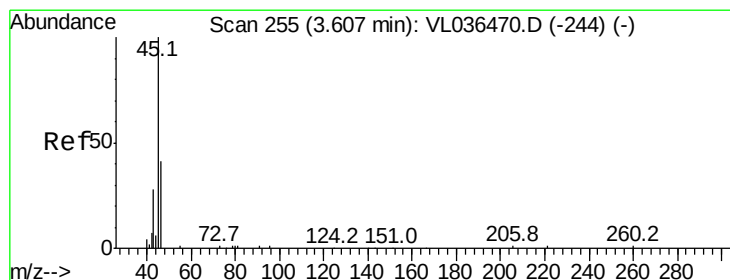
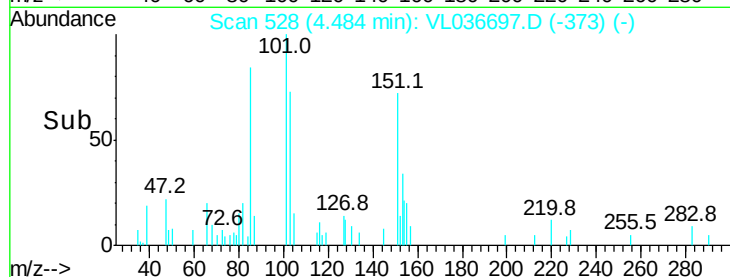
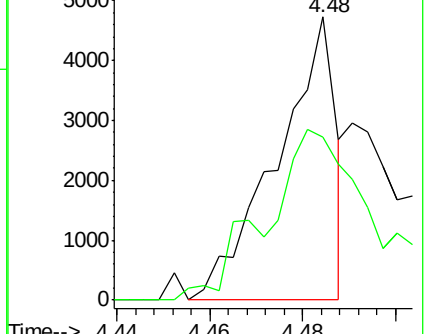
101 100

151 126.4 60.9 91.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.043 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL036697.D

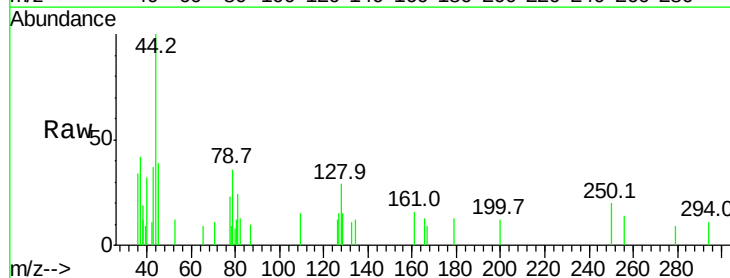
Acq: 6 Apr 2021 10:29

Tgt Ion: 45 Resp: 389

Ion Ratio Lower Upper

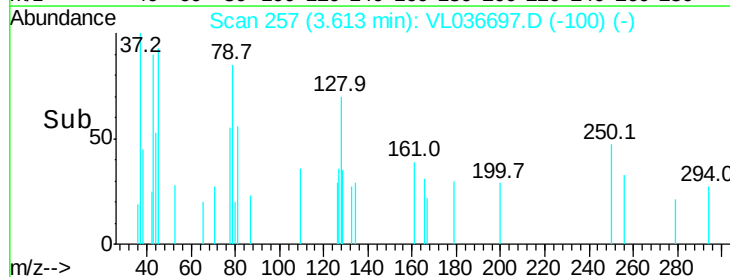
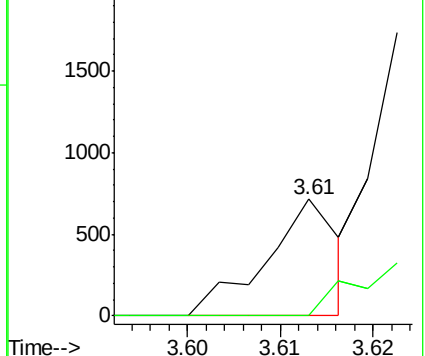
45 100

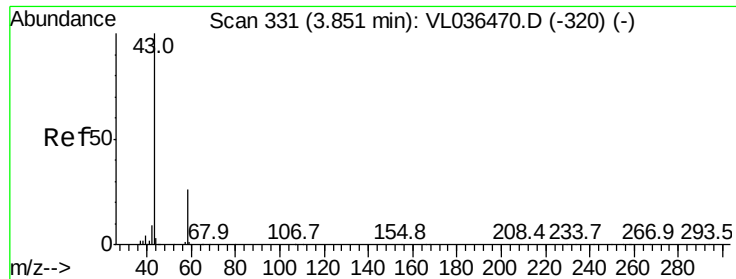
46 0.0 16.6 66.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

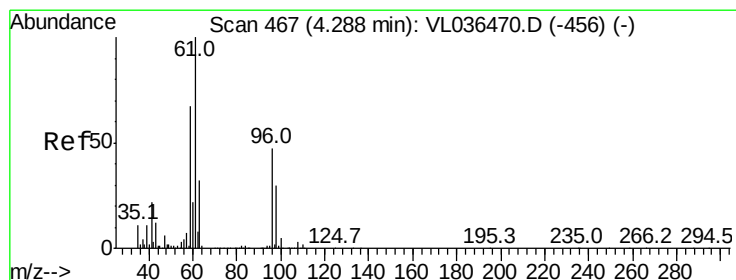
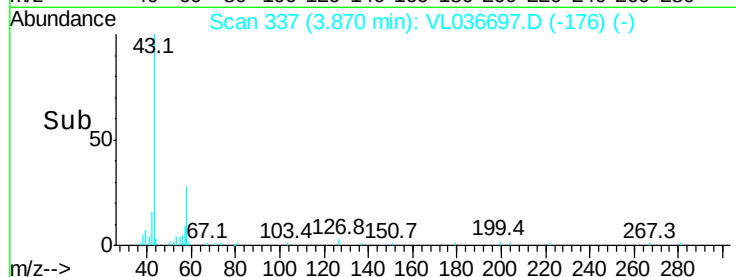
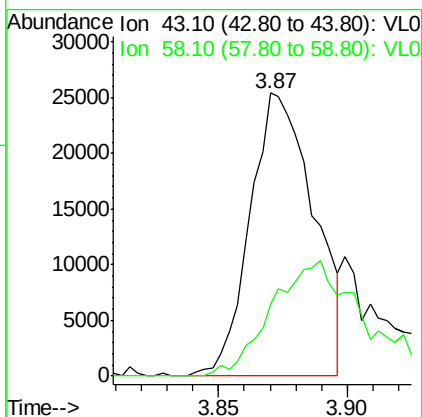
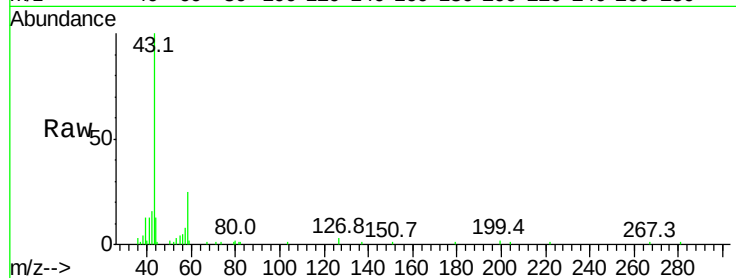




#15
Acetone
Concen: 0.352 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036697.D
Acq: 6 Apr 2021 10:29

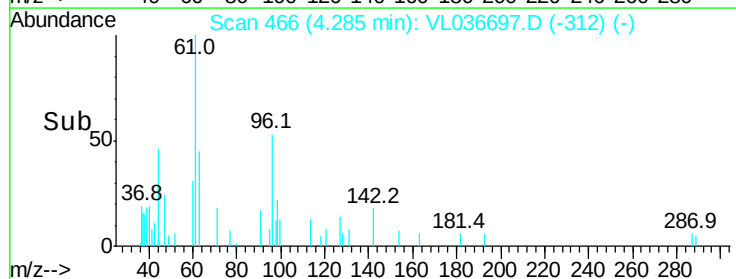
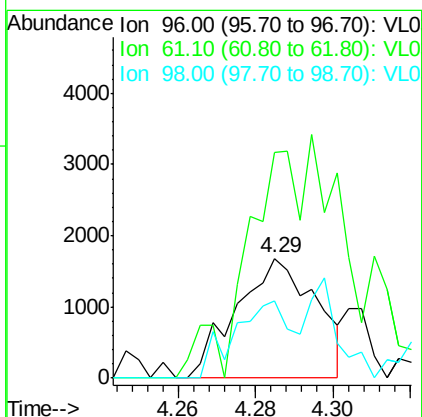
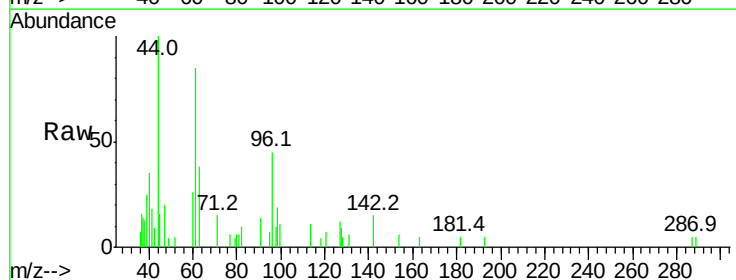
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

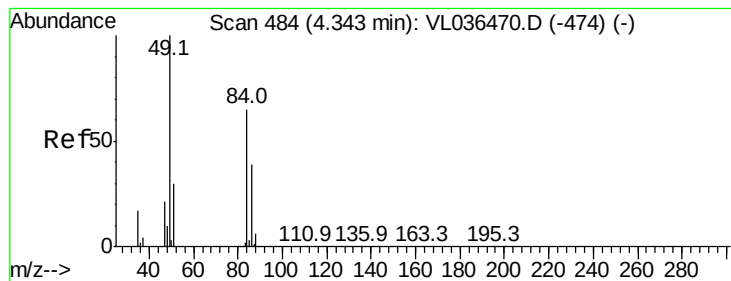
Tgt Ion: 43 Resp: 43965
Ion Ratio Lower Upper
43 100
58 0.0 21.2 31.8#



#18
1,1-Dichloroethene
Concen: 0.040 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.00 min
Lab File: VL036697.D
Acq: 6 Apr 2021 10:29

Tgt Ion: 96 Resp: 2402
Ion Ratio Lower Upper
96 100
61 172.7 168.6 253.0
98 64.3 50.8 76.2





#20

Methylene Chloride

Concen: 0.127 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion: 84 Resp: 7460

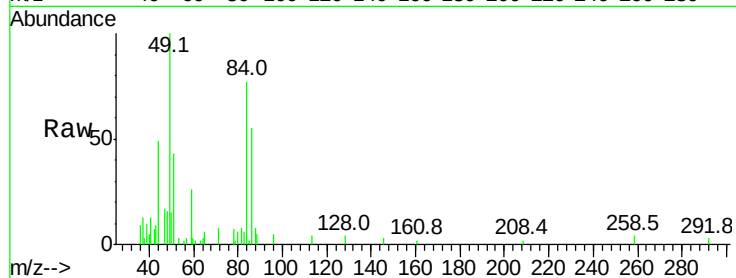
Ion Ratio Lower Upper

84 100

49 123.3 122.9 184.3

51 55.4 36.9 55.3#

86 71.5 48.2 72.4

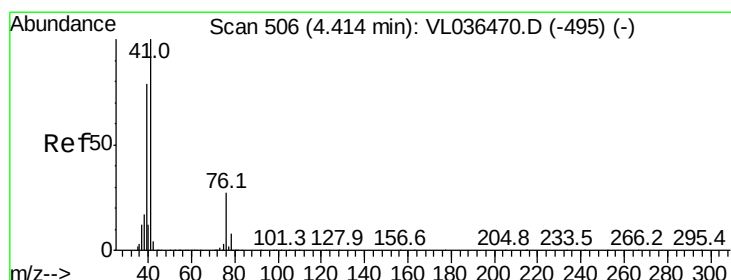
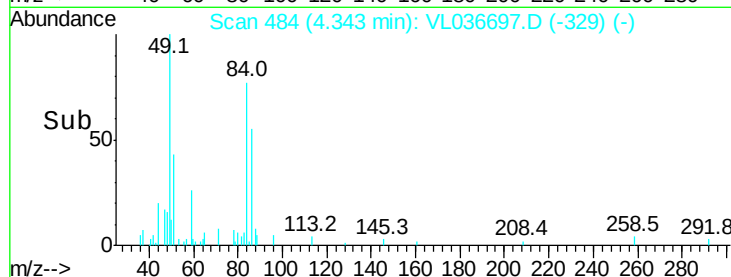
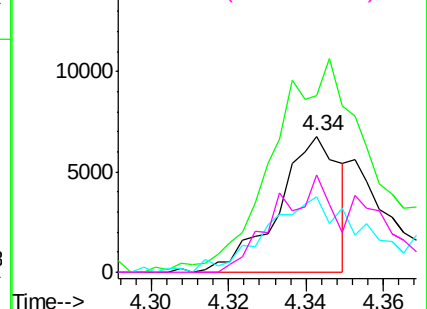


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#21

Allyl Chloride

Concen: 0.032 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.01 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

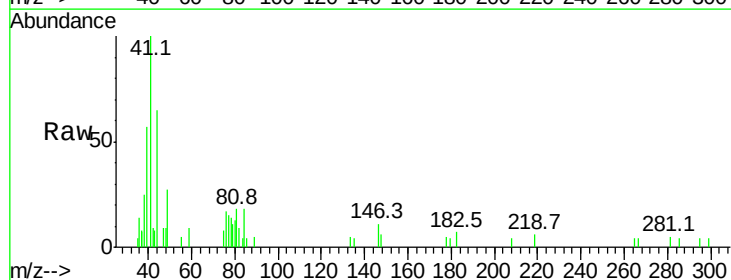
Tgt Ion: 41 Resp: 3194

Ion Ratio Lower Upper

41 100

76 0.0 22.9 34.3#

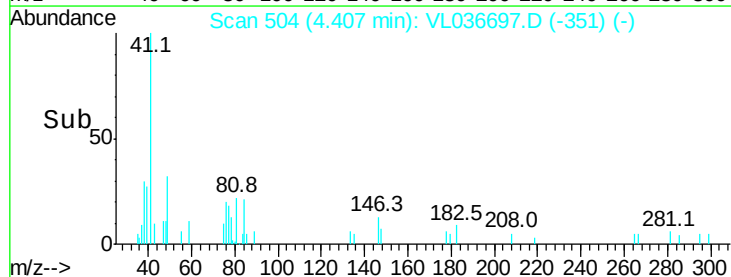
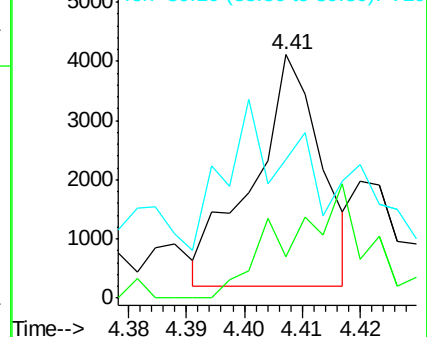
39 165.0 67.3 100.9#

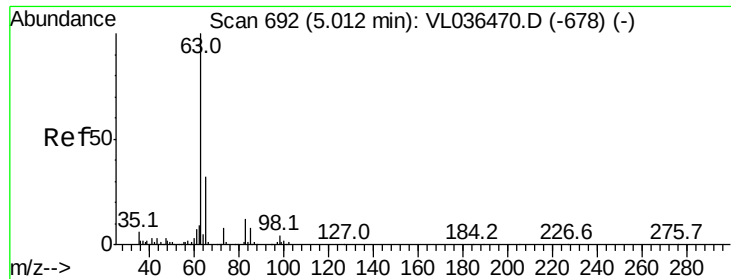


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#24

1,1-Dichloroethane

Concen: 0.051 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

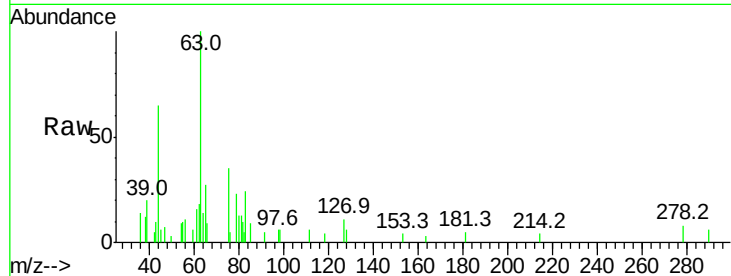
Tgt Ion: 63 Resp: 7904

Ion Ratio Lower Upper

63 100

98 6.2 2.1 6.2#

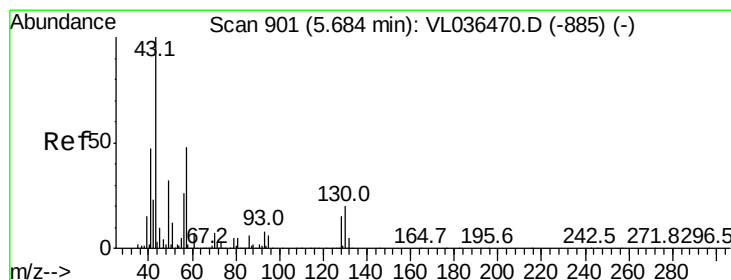
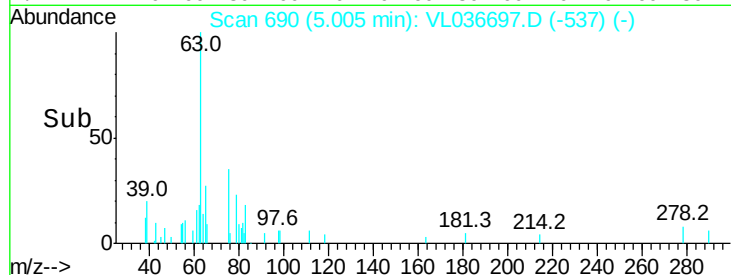
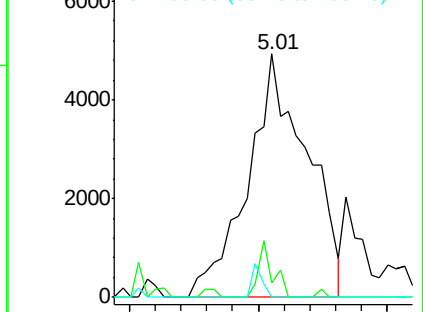
100 0.0 0.9 2.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.039 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Tgt Ion: 43 Resp: 11599

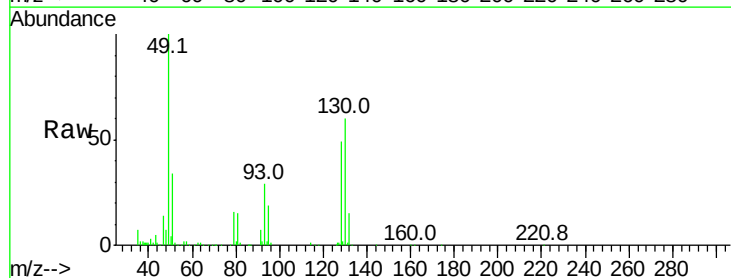
Ion Ratio Lower Upper

43 100

45 21.9 7.9 11.9#

61 19.4 7.4 11.2#

70 6.4 5.1 7.7

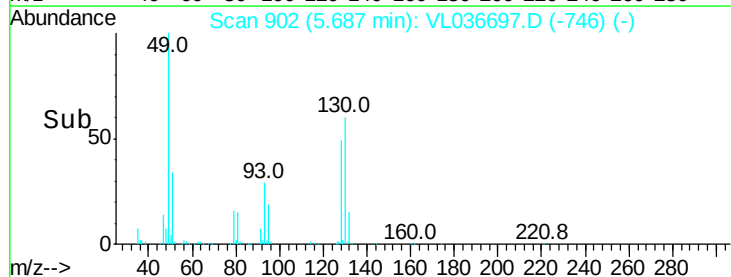
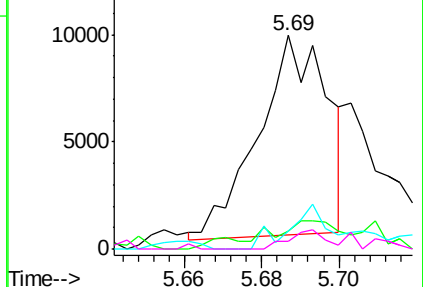


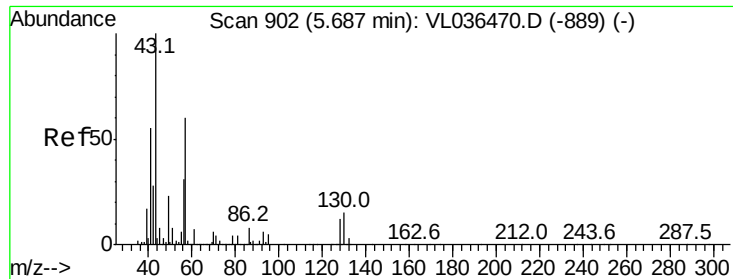
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.044 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion: 57 Resp: 6024

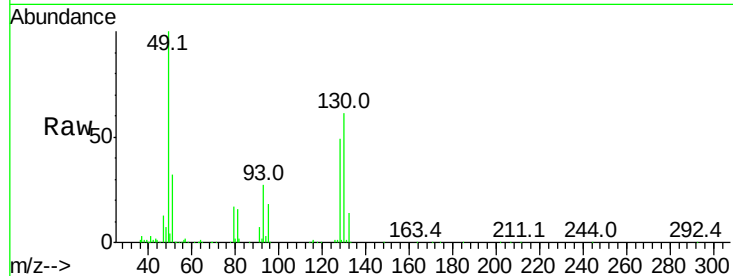
Ion Ratio Lower Upper

57 100

41 240.9 77.2 115.8#

43 0.0 173.8 260.6#

56 0.0 43.8 65.6#

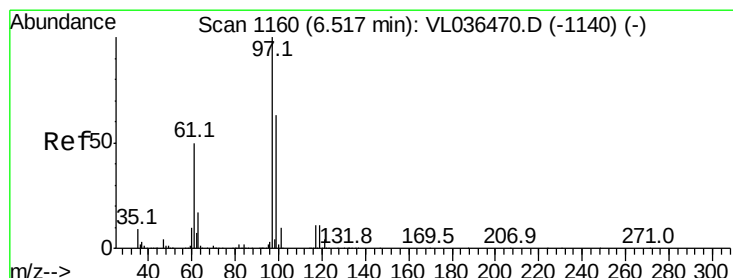
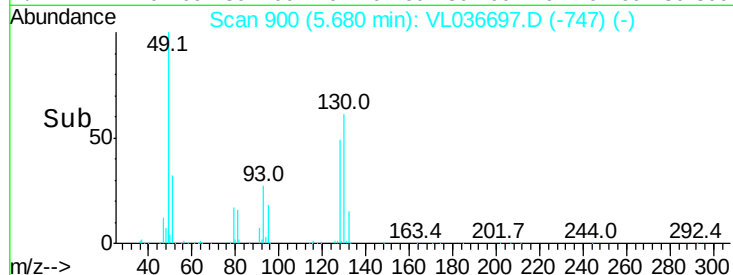
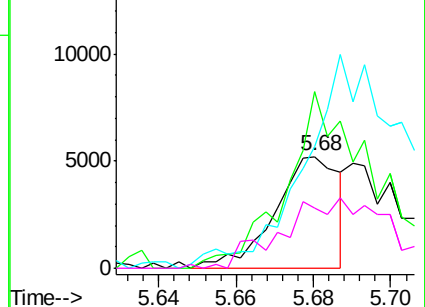


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#32

1,1,1-Trichloroethane

Concen: 0.048 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

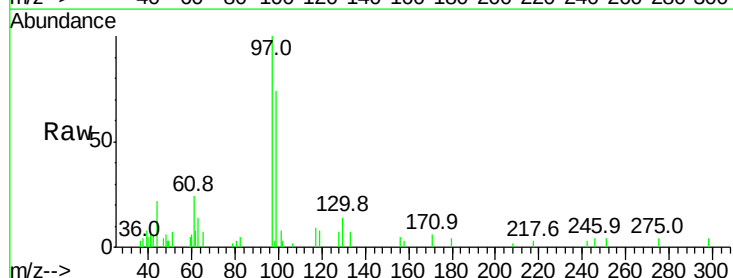
Tgt Ion: 97 Resp: 10760

Ion Ratio Lower Upper

97 100

99 72.4 51.4 77.0

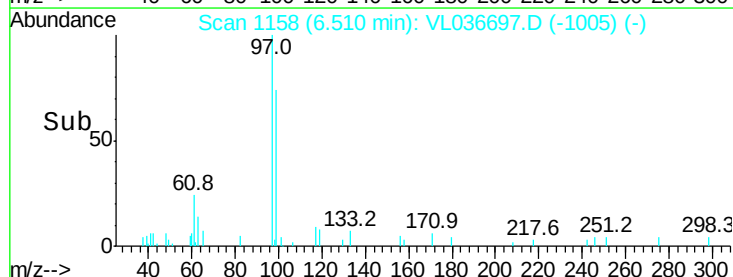
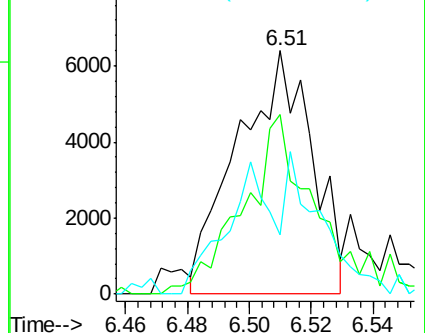
61 65.4 40.6 60.8#

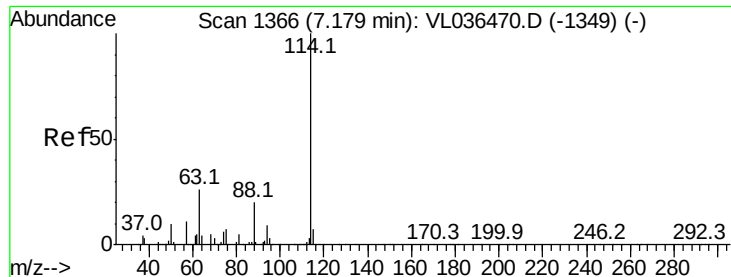


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

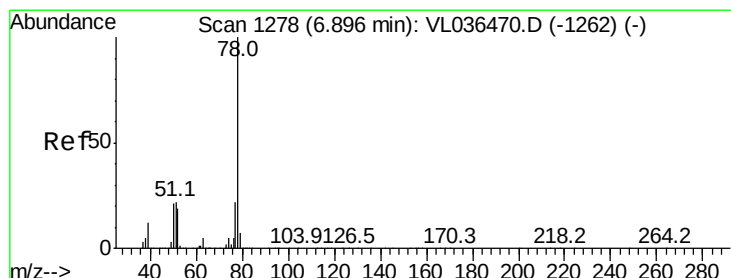
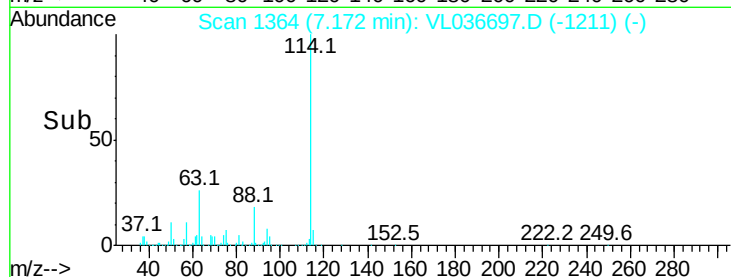
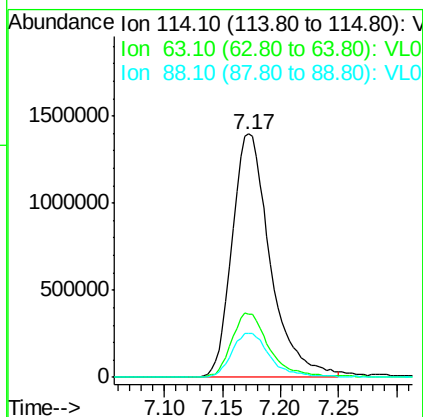
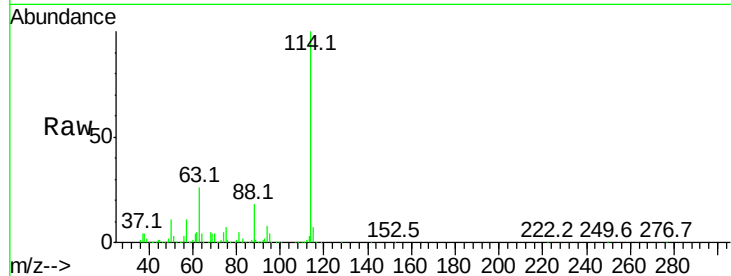




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL036697.D
 Acq: 6 Apr 2021 10:29

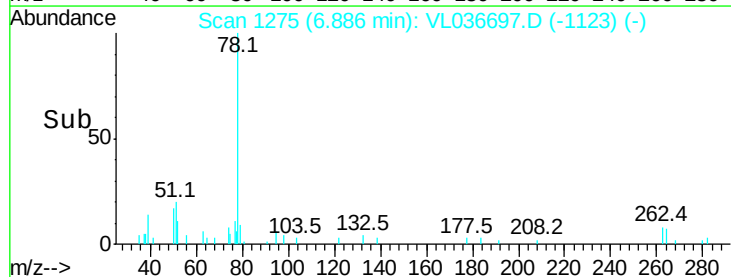
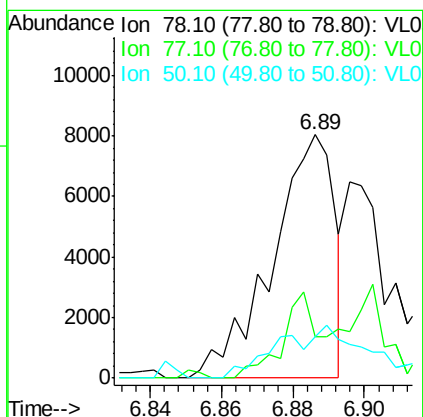
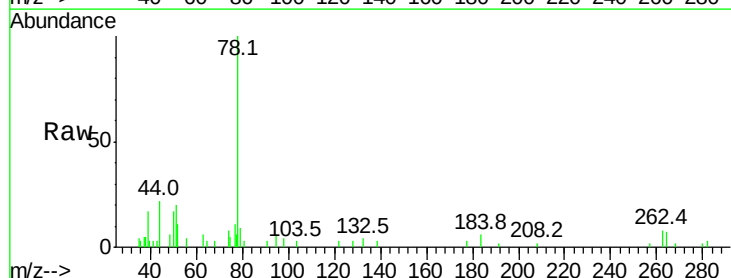
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

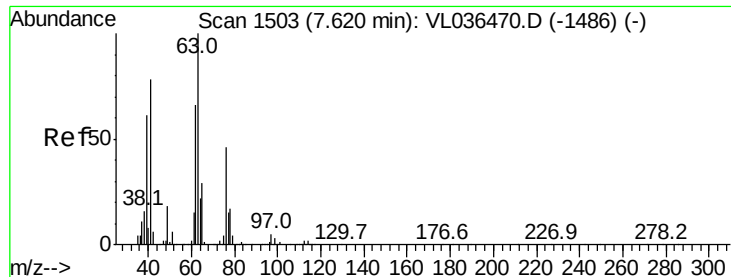
Tgt Ion:114 Resp: 3186871
 Ion Ratio Lower Upper
 114 100
 63 26.5 22.4 33.6
 88 18.6 15.4 23.0



#36
 Benzene
 Concen: 0.033 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: VL036697.D
 Acq: 6 Apr 2021 10:29

Tgt Ion: 78 Resp: 9710
 Ion Ratio Lower Upper
 78 100
 77 14.8 18.0 27.0#
 50 17.7 16.5 24.7





#39

1,2-Dichloropropane

Concen: 6.802 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

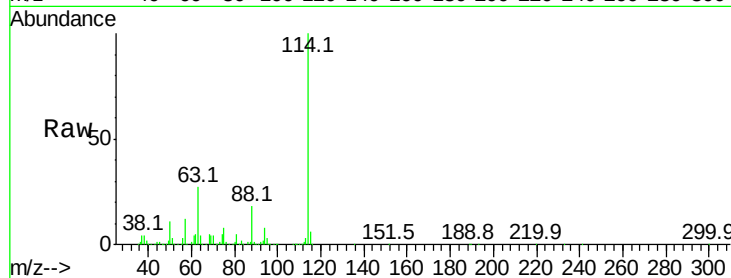
Tgt Ion: 63 Resp: 811033

Ion Ratio Lower Upper

63 100

41 0.1 62.4 93.6#

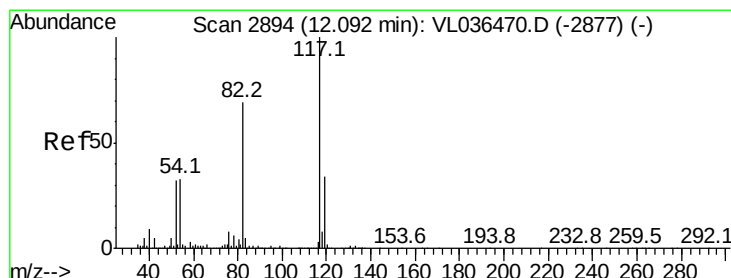
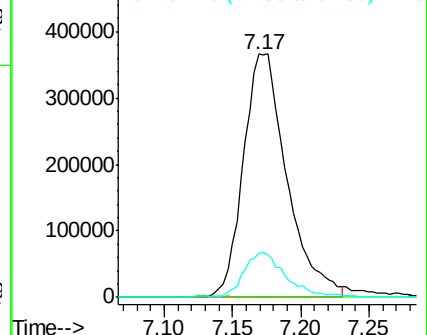
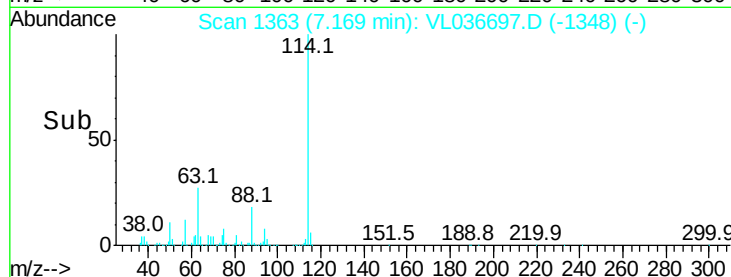
62 17.7 52.8 79.2#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

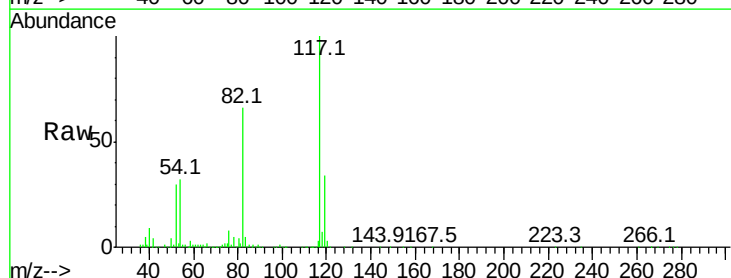
Tgt Ion: 117 Resp: 2779413

Ion Ratio Lower Upper

117 100

82 69.5 57.4 86.0

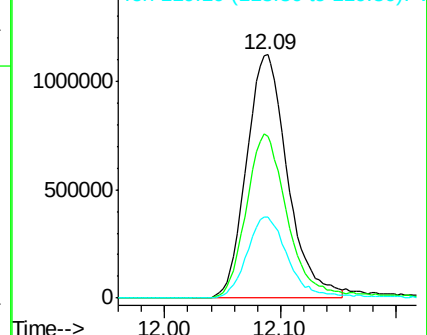
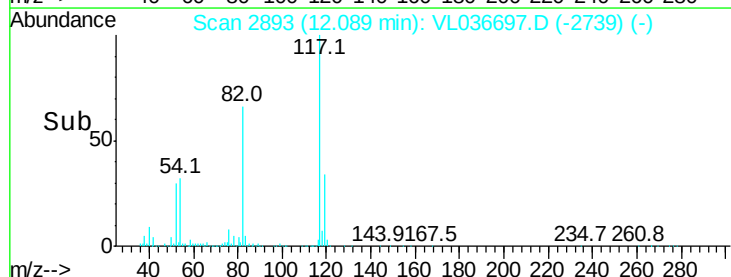
119 34.3 47.4 71.0#

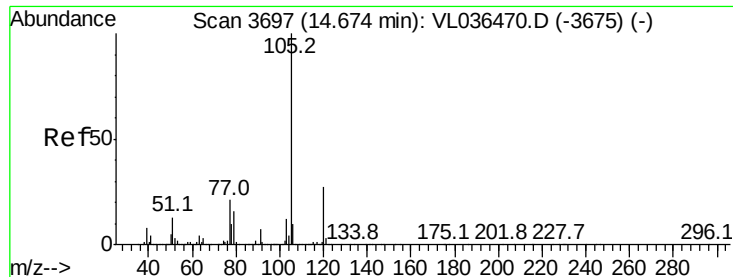


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#62

Isopropylbenzene

Concen: 0.036 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

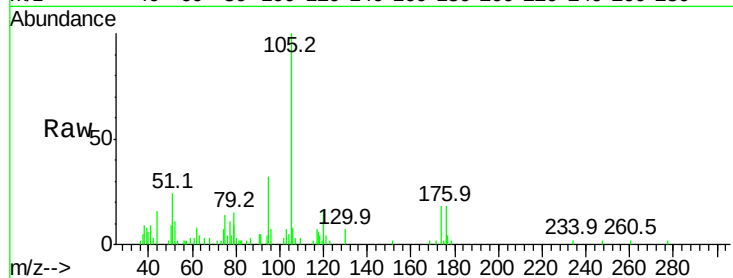
VIBLK

Tgt Ion:105 Resp: 16603

Ion Ratio Lower Upper

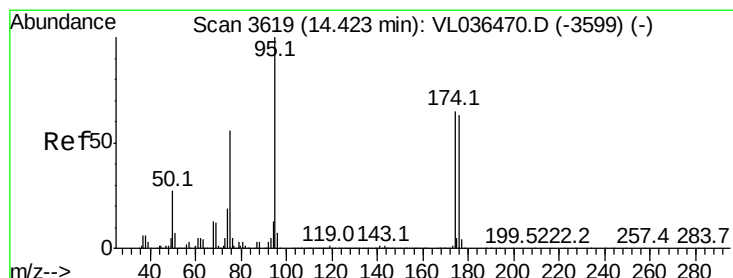
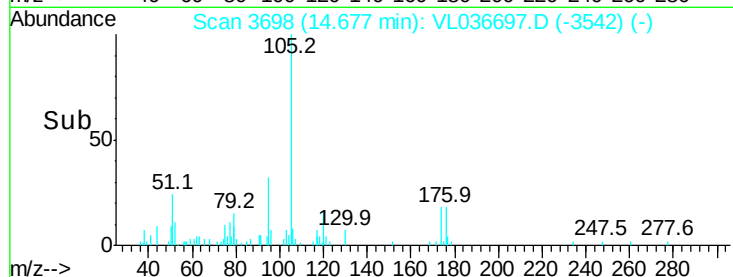
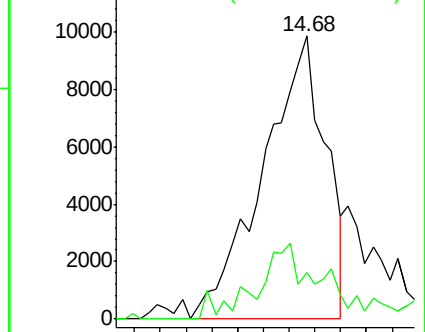
105 100

120 26.7 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.015 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

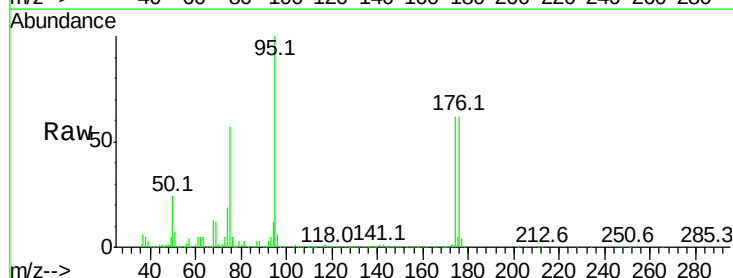
Tgt Ion: 95 Resp: 2218565

Ion Ratio Lower Upper

95 100

174 67.2 51.0 76.6

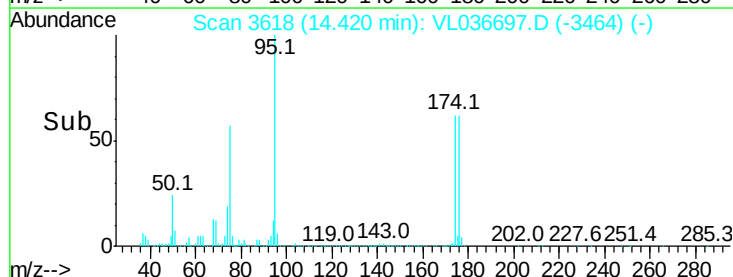
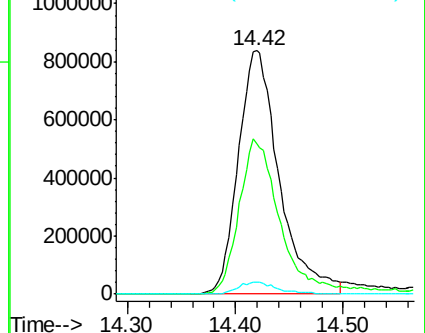
175 5.1 3.9 5.9

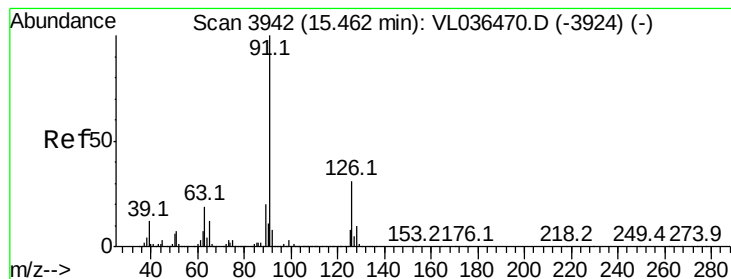


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

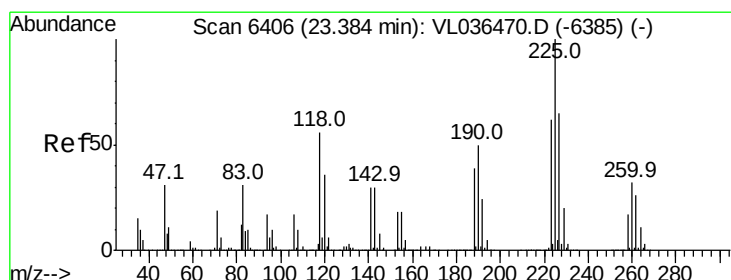
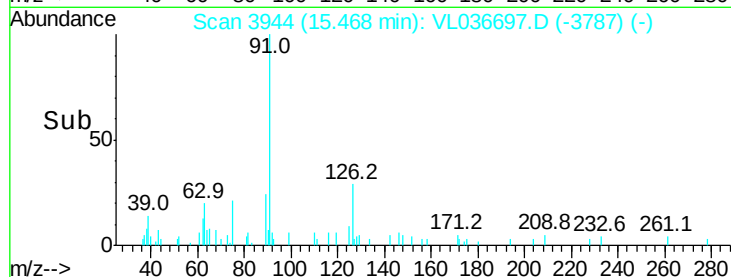
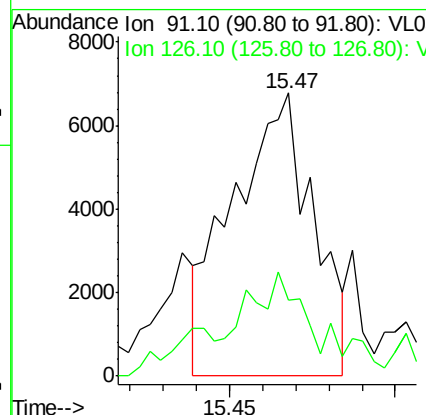
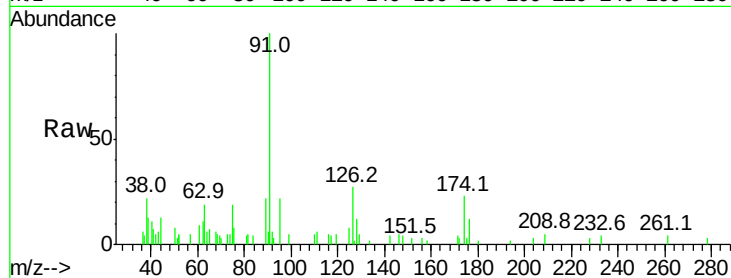




#71
 2-Chlorotoluene
 Concen: 0.033 ppbv
 RT: 15.47 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VL036697.D
 Acq: 6 Apr 2021 10:29

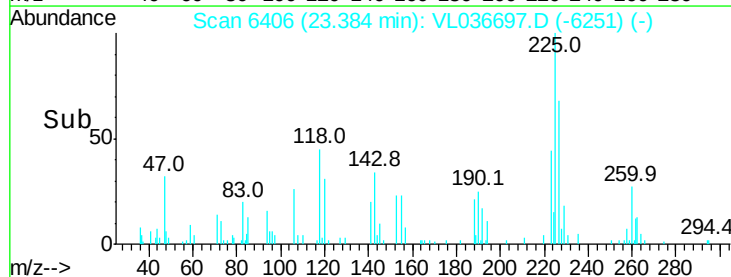
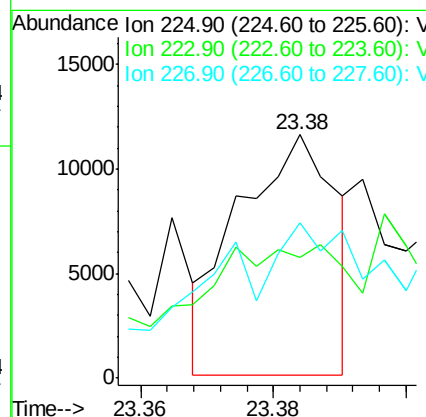
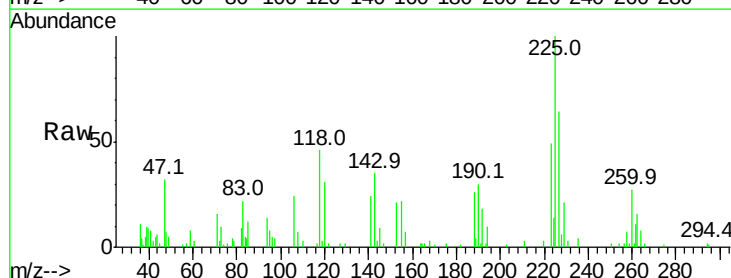
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

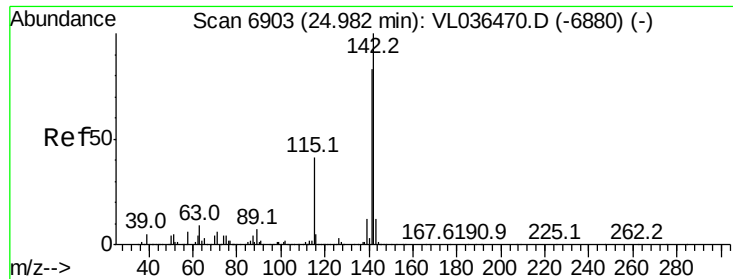
Tgt Ion: 91 Resp: 11441
 Ion Ratio Lower Upper
 91 100
 126 47.8 12.1 48.5



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.067 ppbv
 RT: 23.38 min Scan# 6406
 Delta R.T. -0.00 min
 Lab File: VL036697.D
 Acq: 6 Apr 2021 10:29

Tgt Ion: 225 Resp: 11779
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.6 75.8#
 227 163.6 52.2 78.2#





#80

Naphthalene, 2-methyl-

Concen: 0.451 ppbv

RT: 25.02 min Scan# 6915

Delta R.T. 0.04 min

Lab File: VL036697.D

Acq: 6 Apr 2021 10:29

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

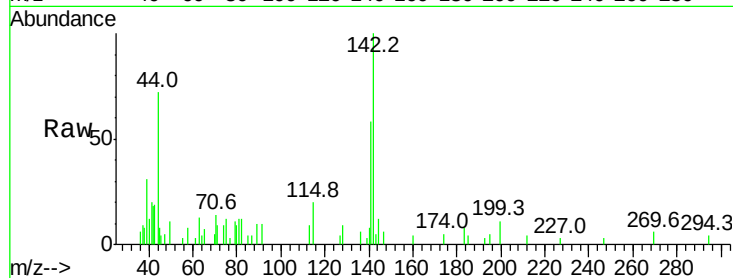
Tgt Ion:142 Resp: 19389

Ion Ratio Lower Upper

142 100

141 72.2 67.8 101.8

115 17.9 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

