

Data File : VL036136.D
Acq On : 10 Dec 2020 20:20
Operator : SY/AP
Sample : L4948-11DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-5BDL

Quant Time: Dec 11 03:30:33 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1334562	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.16	114	2678601	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2426847	10.00	ppbv	-0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.40 95 2041784 10.60 ppbv -0.05
Spiked Amount 10.000 Range 65 - 135 Recovery = 106.00%

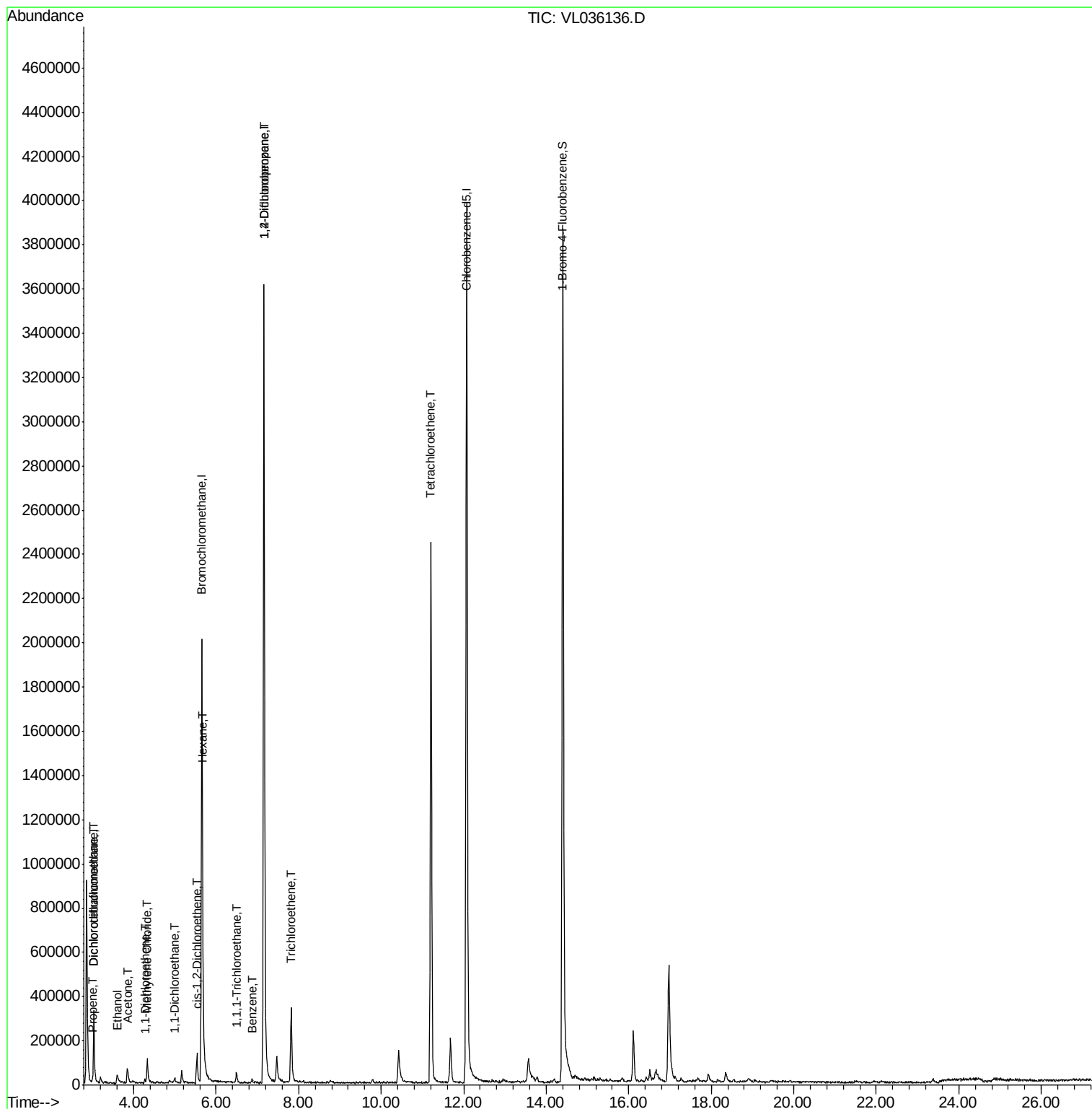
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	277697	1.786	ppbv	93
8) Dichlorotetrafluoroethane	3.03	85	277697	1.607	ppbv #	16
9) Propene	3.00	41	2340	0.031	ppbv #	14
13) Ethanol	3.60	45	45236	4.302	ppbv	99
15) Acetone	3.84	43	39039	0.243	ppbv #	49
18) 1,1-Dichloroethene	4.27	96	2349	0.043	ppbv #	49
20) Methylene Chloride	4.33	84	18500	0.281	ppbv	85
24) 1,1-Dichloroethane	5.00	63	13728	0.091	ppbv #	91
26) Hexane	5.67	57	10666	0.074	ppbv #	36
31) cis-1,2-Dichloroethene	5.53	61	92696	0.707	ppbv #	76
32) 1,1,1-Trichloroethane	6.49	97	14924	0.076	ppbv #	43
36) Benzene	6.87	78	8136	0.036	ppbv #	88
38) Trichloroethene	7.82	130	90016	1.061	ppbv	88
39) 1,2-Dichloropropane	7.16	63	859803	9.591	ppbv #	25
52) Tetrachloroethene	11.21	164	556462	6.772	ppbv	94

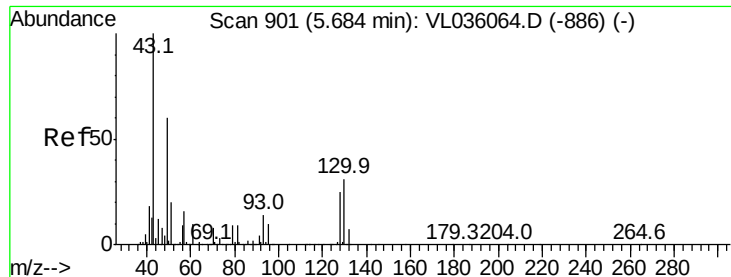
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

SS-5BDL

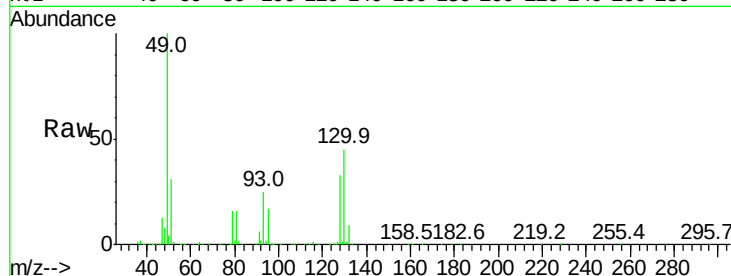
Tgt Ion: 49 Resp: 1334562

Ion Ratio Lower Upper

49 100

128 36.7 21.1 63.1

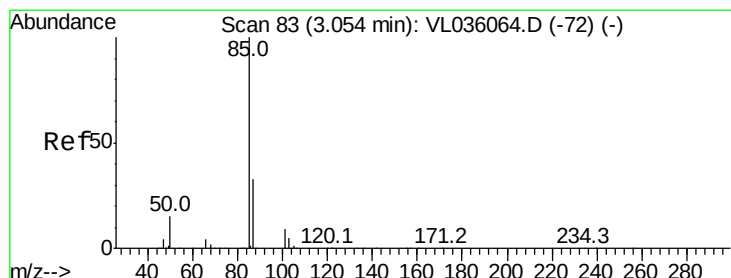
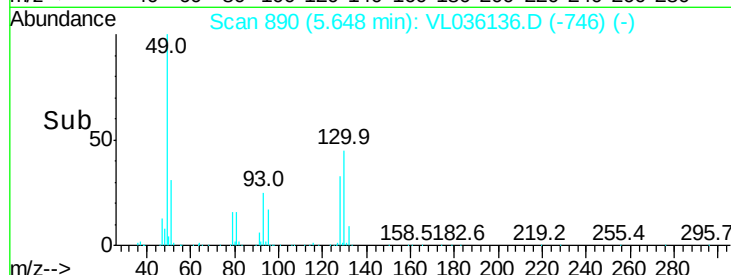
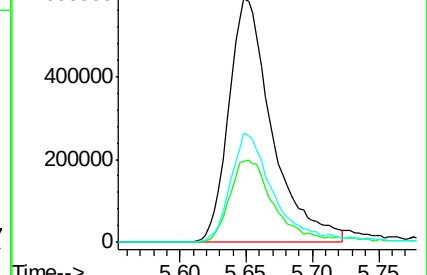
130 46.1 27.1 81.3



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: 1.786 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036136.D

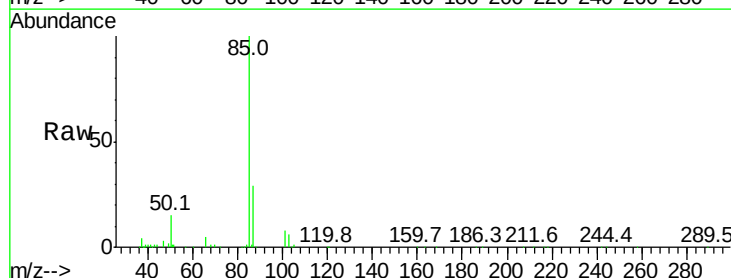
Acq: 10 Dec 2020 20:20

Tgt Ion: 85 Resp: 277697

Ion Ratio Lower Upper

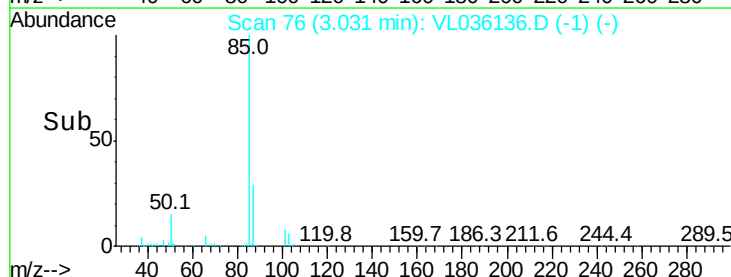
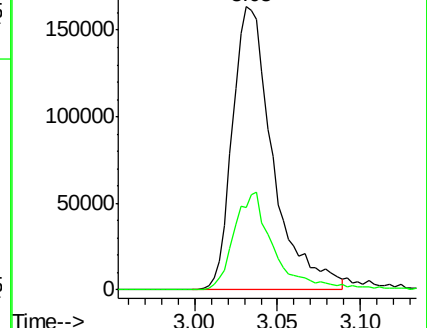
85 100

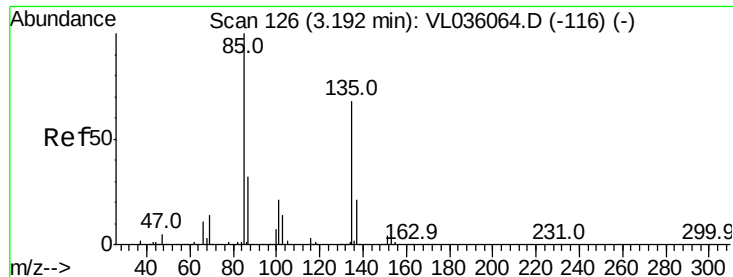
87 29.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 1.607 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.16 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

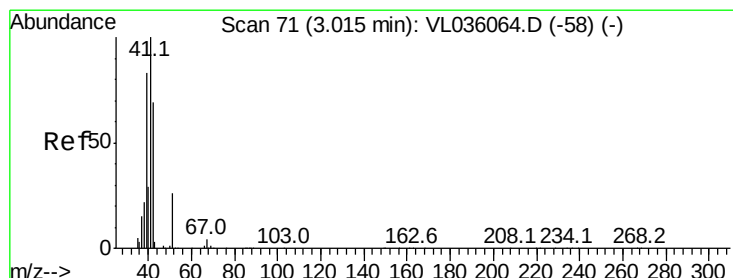
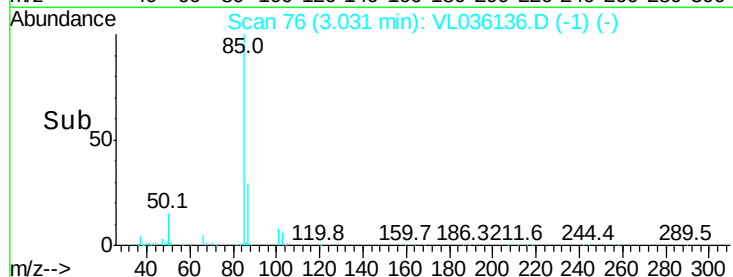
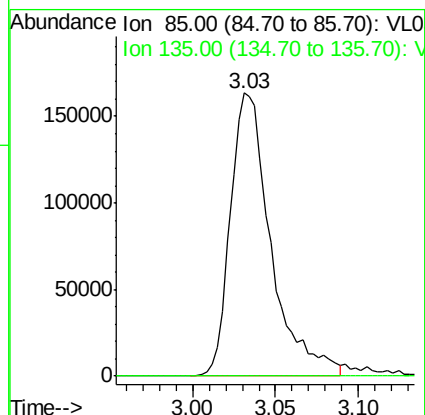
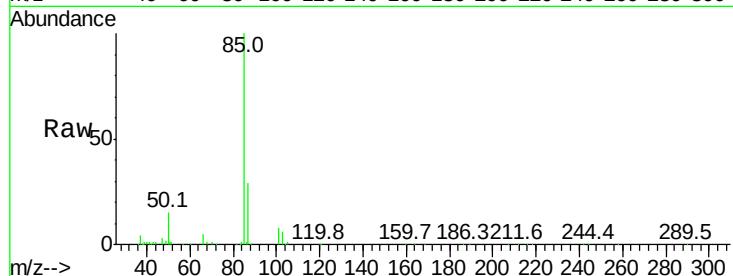
SS-5BDL

Tgt Ion: 85 Resp: 277697

Ion Ratio Lower Upper

85 100

135 0.0 53.8 80.8#



#9

Propene

Concen: 0.031 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.02 min

Lab File: VL036136.D

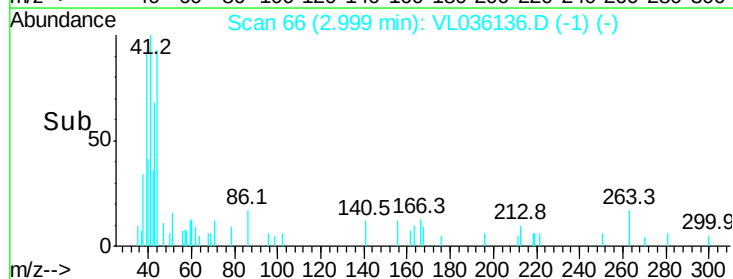
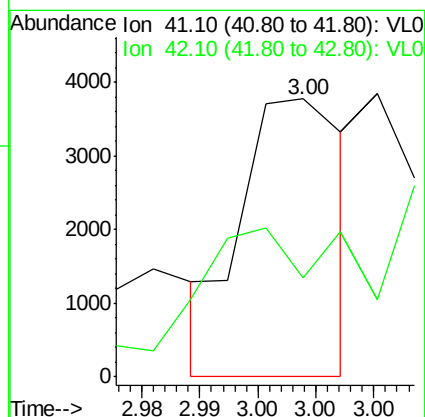
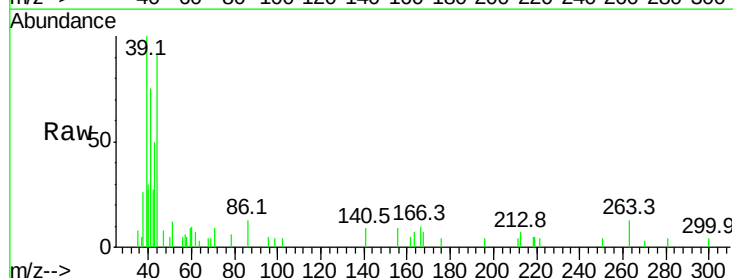
Acq: 10 Dec 2020 20:20

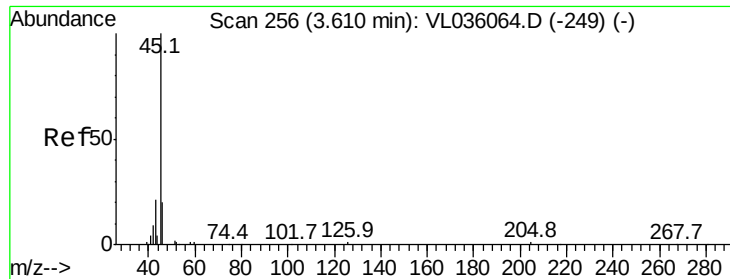
Tgt Ion: 41 Resp: 2340

Ion Ratio Lower Upper

41 100

42 0.0 57.0 85.6#

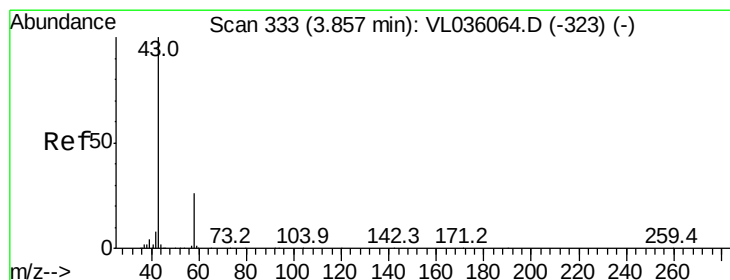
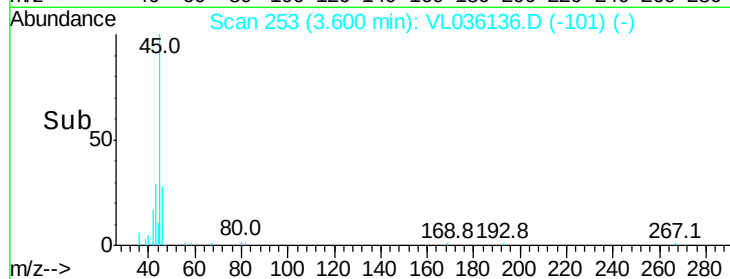
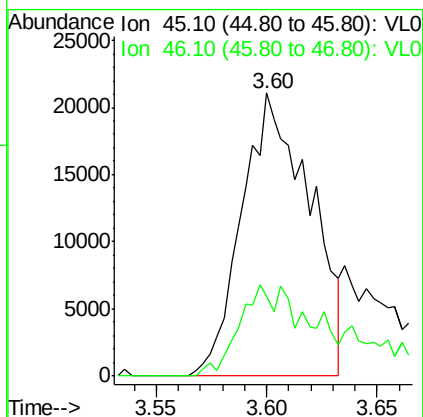
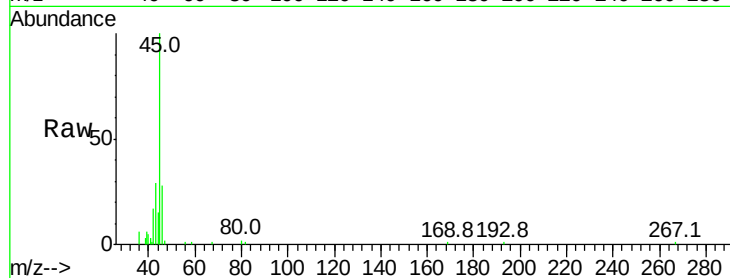




#13
Ethanol
Concen: 4.302 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL036136.D
Acq: 10 Dec 2020 20:20

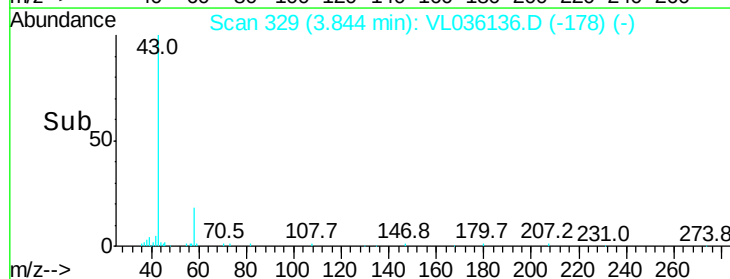
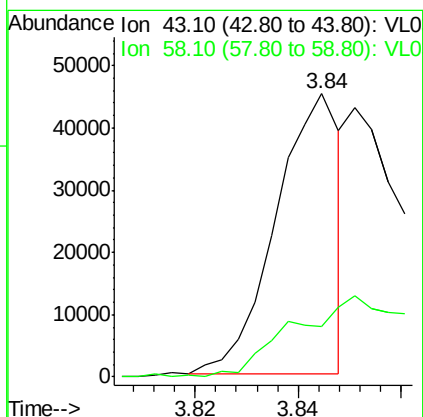
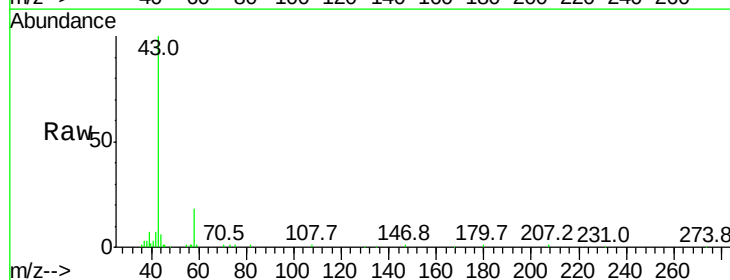
Instrument :
MSVOA_L
ClientSampleId :
SS-5BDL

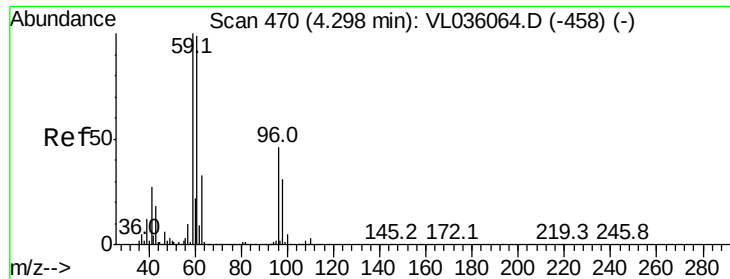
Tgt Ion: 45 Resp: 45236
Ion Ratio Lower Upper
45 100
46 48.4 19.0 75.8



#15
Acetone
Concen: 0.243 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL036136.D
Acq: 10 Dec 2020 20:20

Tgt Ion: 43 Resp: 39039
Ion Ratio Lower Upper
43 100
58 0.0 20.9 31.3#

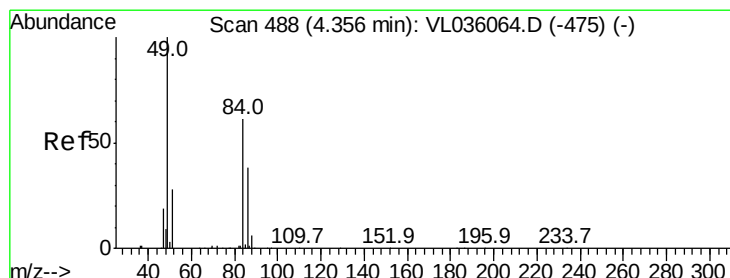
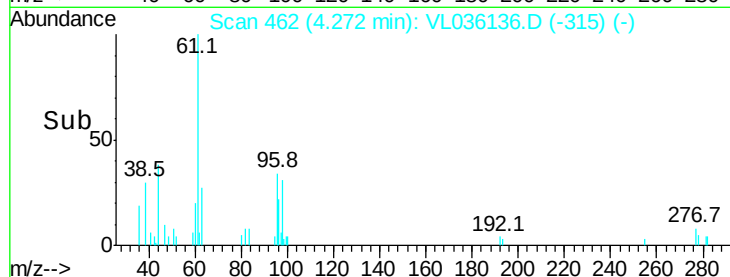
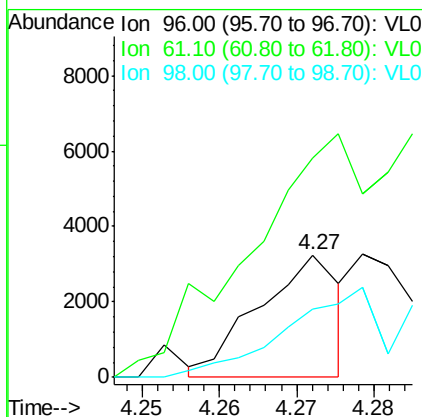
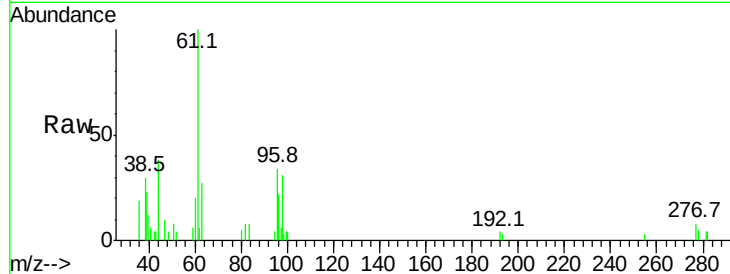




#18
 1,1-Dichloroethene
 Concen: 0.043 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.03 min
 Lab File: VL036136.D
 Acq: 10 Dec 2020 20:20

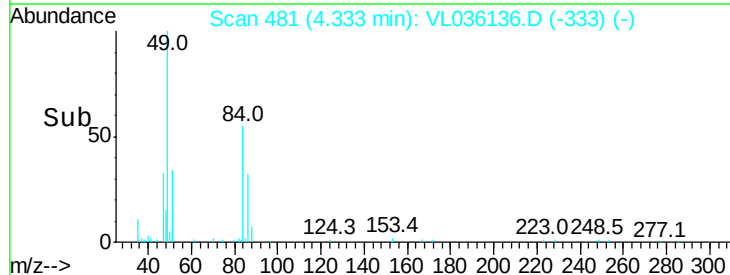
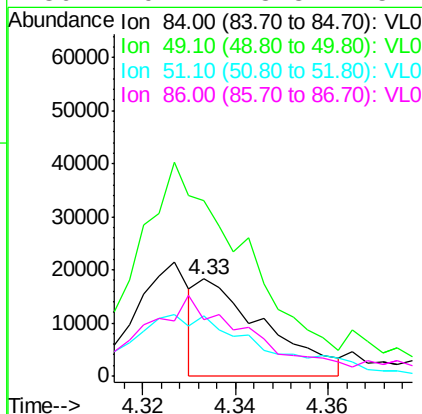
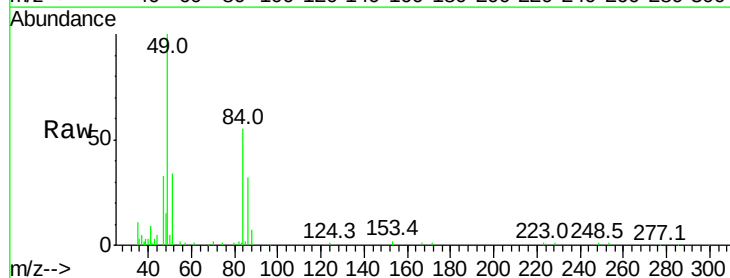
Instrument :
 MSVOA_L
 ClientSampled :
 SS-5BDL

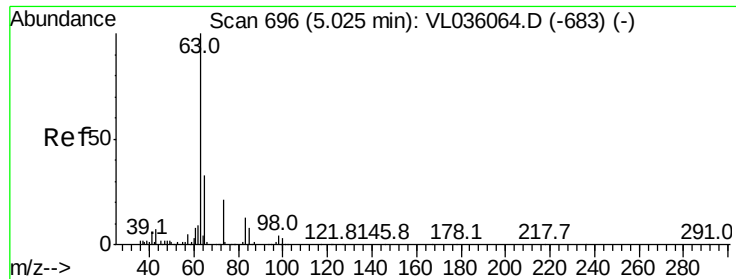
Tgt Ion: 96 Resp: 2349
 Ion Ratio Lower Upper
 96 100
 61 113.3 171.4 257.2#
 98 61.0 54.2 81.2



#20
 Methylene Chloride
 Concen: 0.281 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. -0.02 min
 Lab File: VL036136.D
 Acq: 10 Dec 2020 20:20

Tgt Ion: 84 Resp: 18500
 Ion Ratio Lower Upper
 84 100
 49 189.9 133.0 199.4
 51 53.5 38.9 58.3
 86 49.7 48.8 73.2





#24

1,1-Dichloroethane

Concen: 0.091 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.03 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

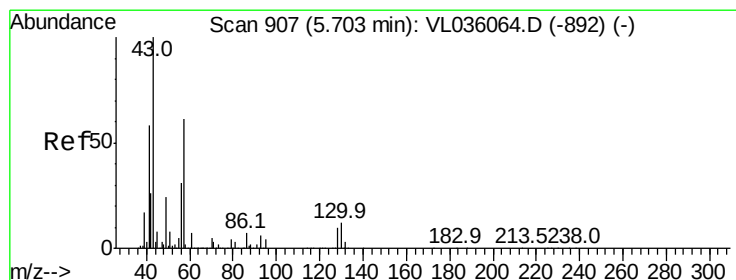
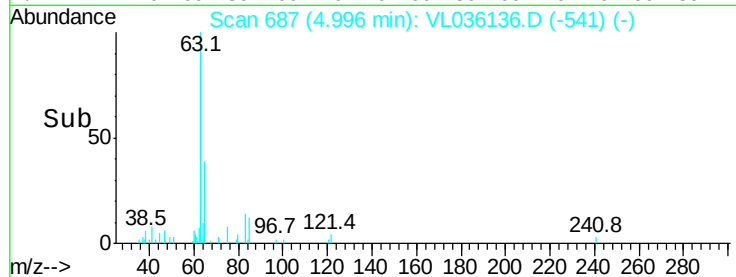
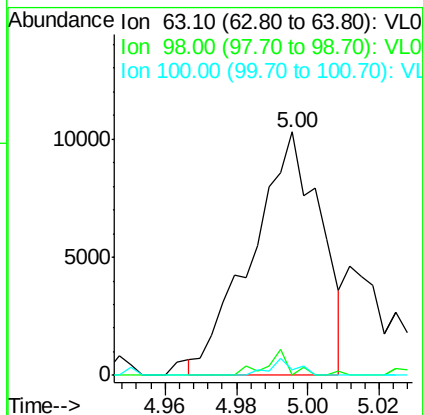
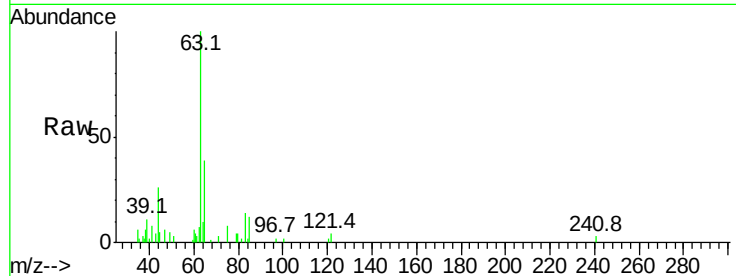
Instrument :

MSVOA_L

ClientSampleId :

SS-5BDL

Tgt Ion:	63	Resp:	13728
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.2	6.6#
100	2.5	1.5	4.4



#26

Hexane

Concen: 0.074 ppbv

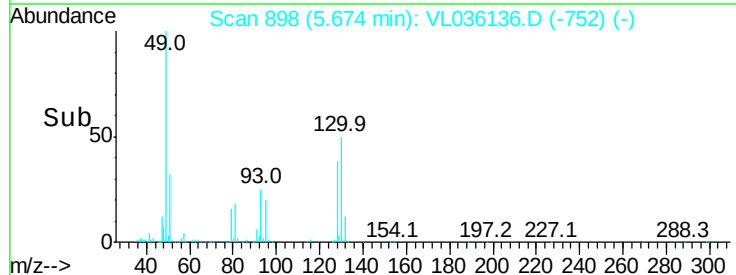
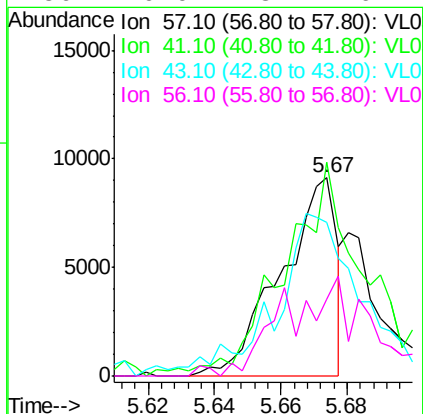
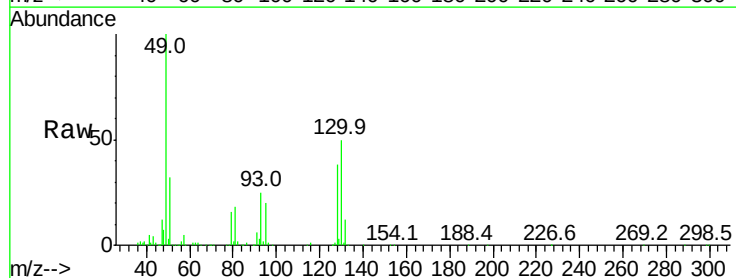
RT: 5.67 min Scan# 898

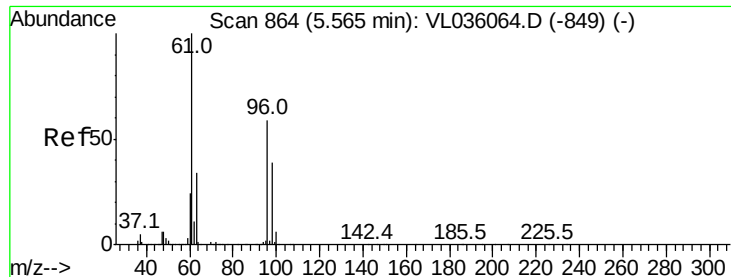
Delta R.T. -0.03 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Tgt Ion:	57	Resp:	10666
Ion	Ratio	Lower	Upper
57	100		
41	157.9	82.9	124.3#
43	134.9	199.9	299.9#
56	0.0	43.1	64.7#





#31

cis-1,2-Dichloroethene

Concen: 0.707 ppbv

RT: 5.53 min Scan# 853

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

SS-5BDL

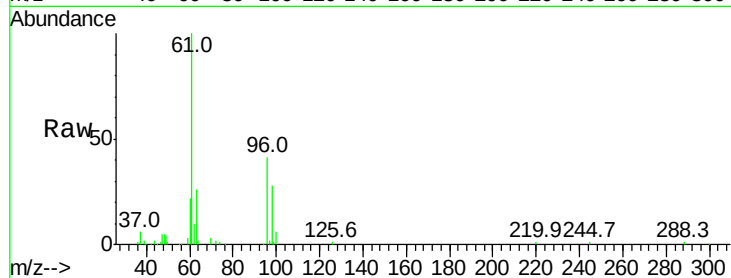
Tgt Ion: 61 Resp: 92696

Ion Ratio Lower Upper

61 100

96 38.2 47.3 70.9#

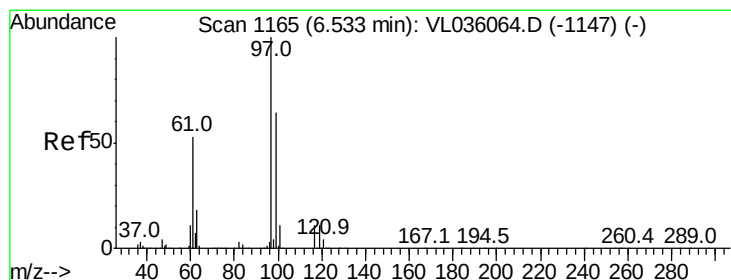
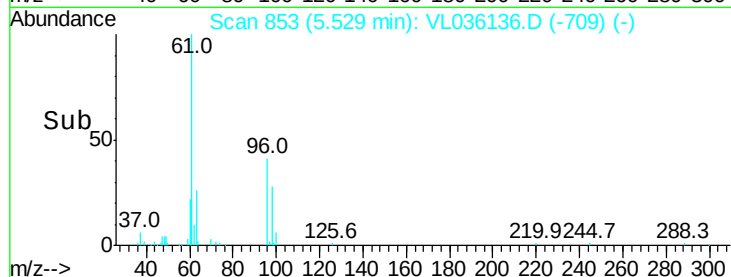
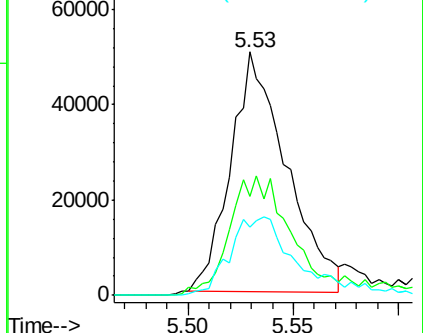
98 28.0 31.4 47.0#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.076 ppbv

RT: 6.49 min Scan# 1152

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

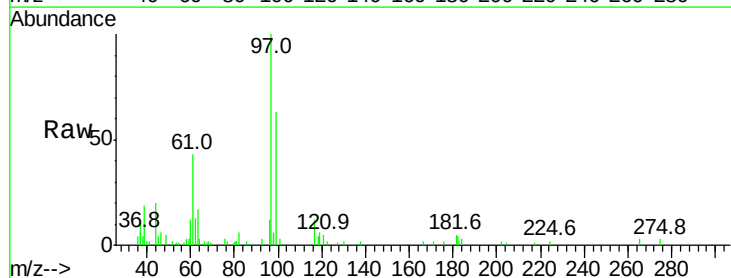
Tgt Ion: 97 Resp: 14924

Ion Ratio Lower Upper

97 100

99 106.8 52.4 78.6#

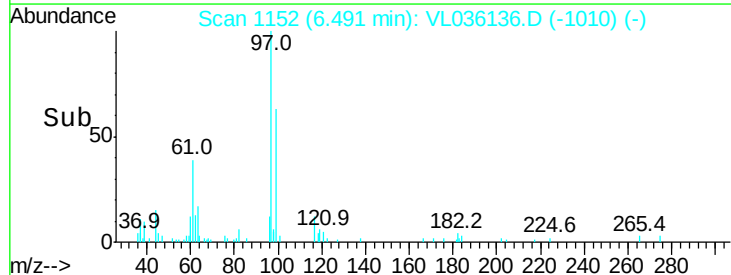
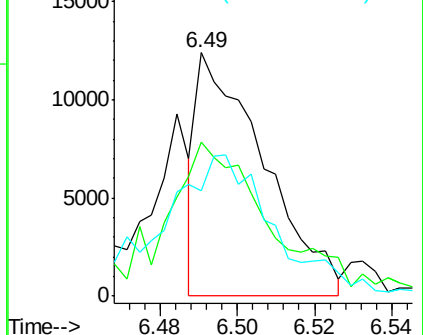
61 99.9 43.4 65.0#

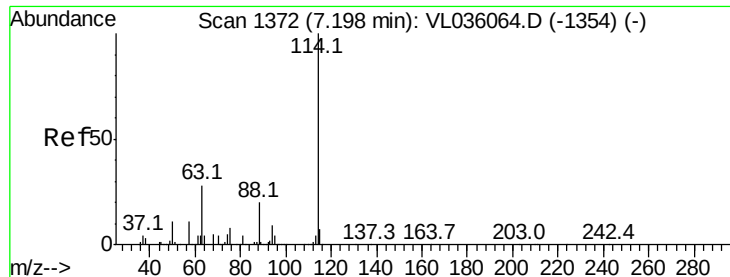


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 7.16 min Scan# 1360

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

SS-5BDL

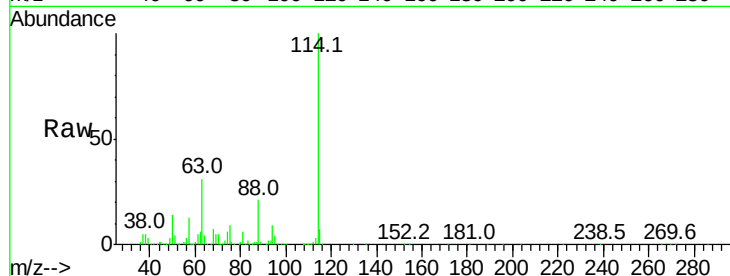
Tgt Ion:114 Resp: 2678601

Ion Ratio Lower Upper

114 100

63 32.9 23.6 35.4

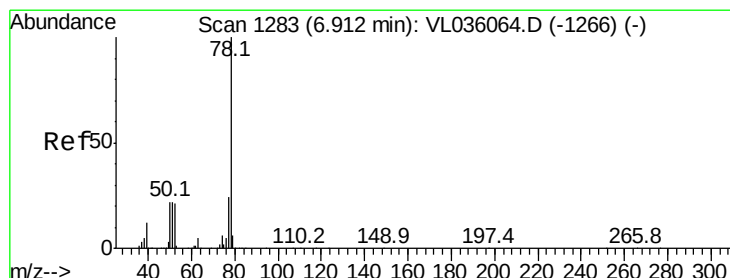
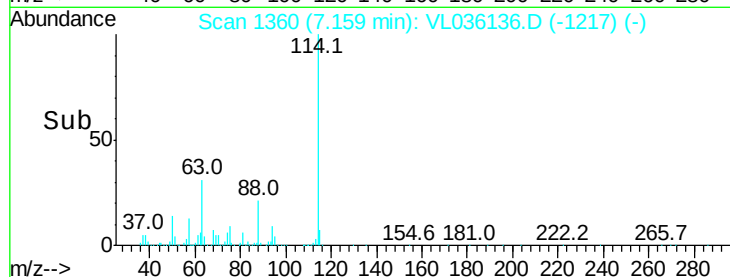
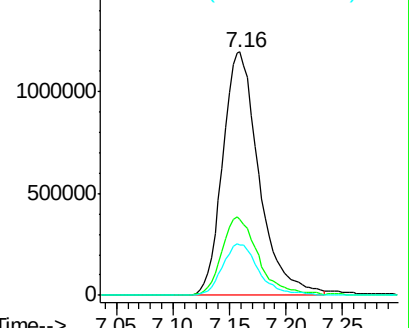
88 21.4 15.8 23.6



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#36

Benzene

Concen: 0.036 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

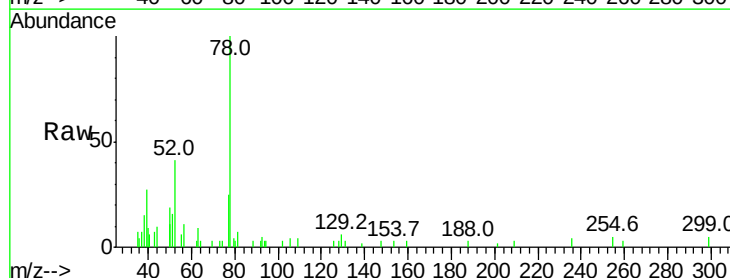
Tgt Ion: 78 Resp: 8136

Ion Ratio Lower Upper

78 100

77 23.2 19.4 29.2

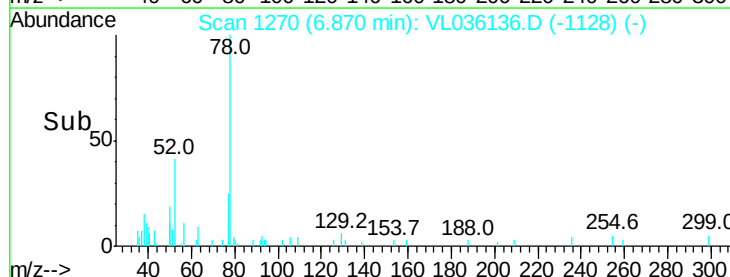
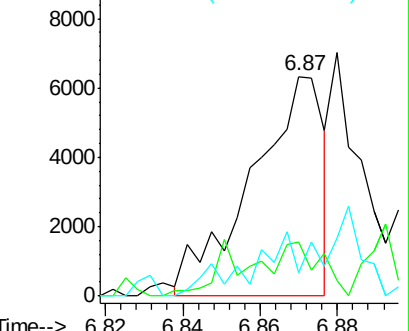
50 11.1 17.8 26.8#

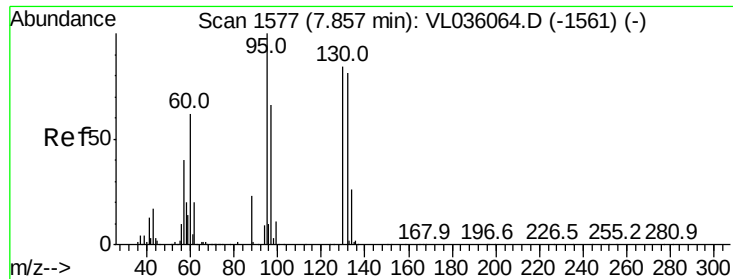


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 1.061 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

SS-5BDL

Tgt Ion:130 Resp: 90016

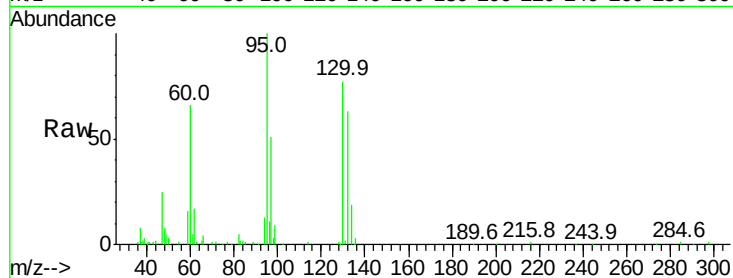
Ion Ratio Lower Upper

130 100

95 128.5 95.2 142.8

132 82.4 76.9 115.3

97 64.3 62.3 93.5

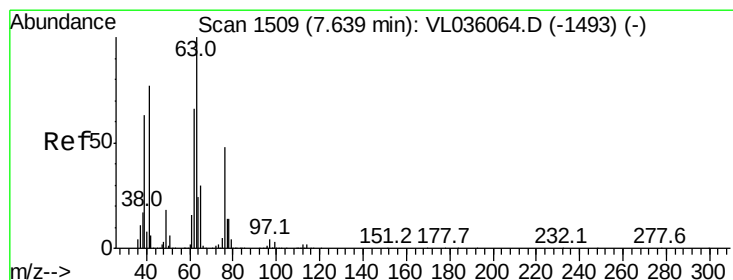
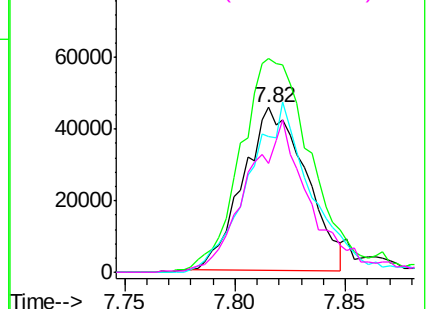
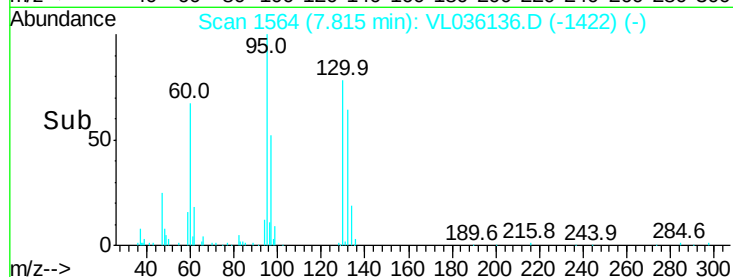


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 9.591 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.48 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

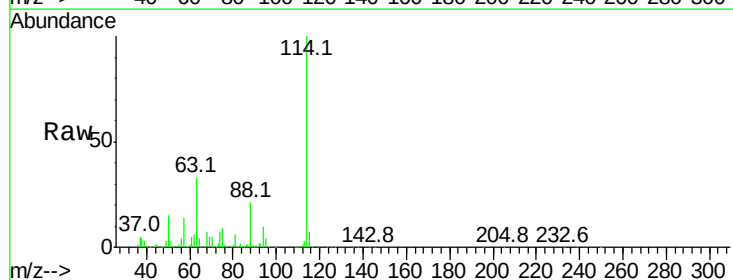
Tgt Ion: 63 Resp: 859803

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

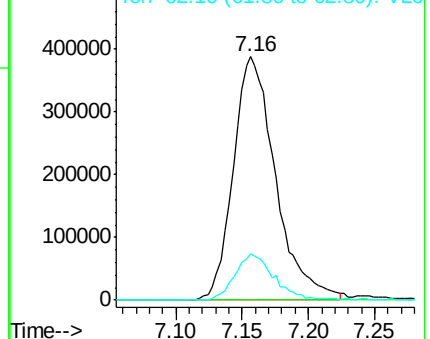
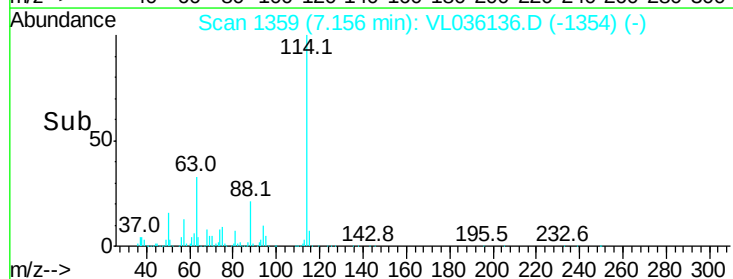
62 19.1 52.5 78.7#

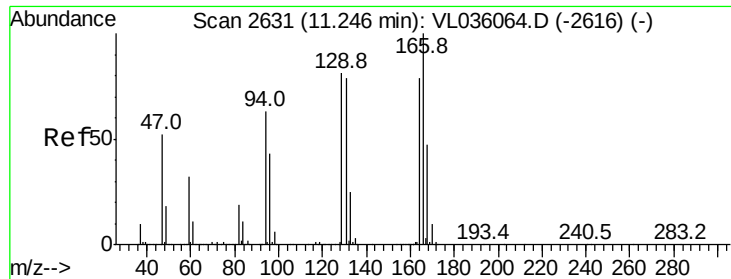


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 6.772 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

SS-5BDL

Tgt Ion:164 Resp: 556462

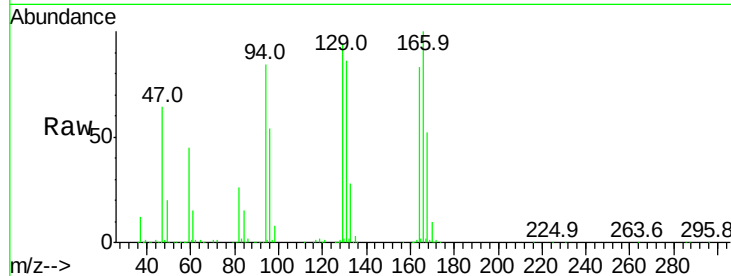
Ion Ratio Lower Upper

164 100

166 120.1 101.9 152.9

129 111.9 82.1 123.1

131 103.6 80.8 121.2

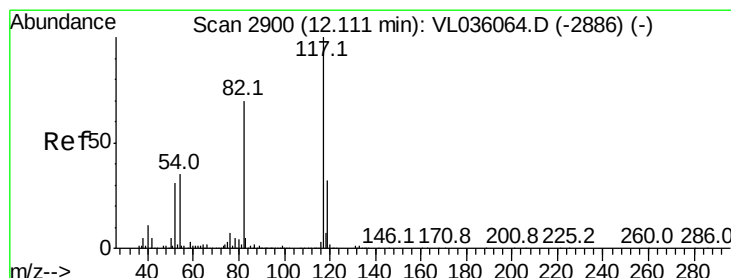
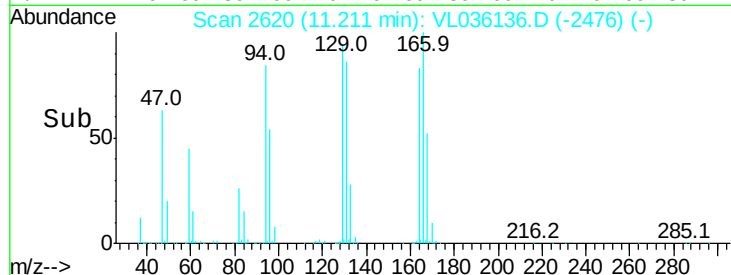
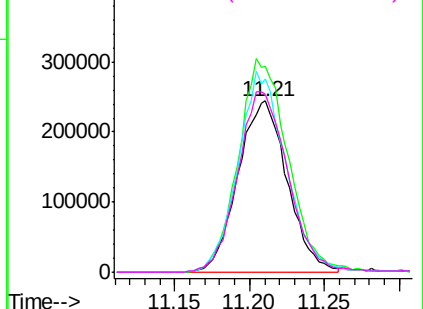


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.07 min Scan# 2888

Delta R.T. -0.04 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

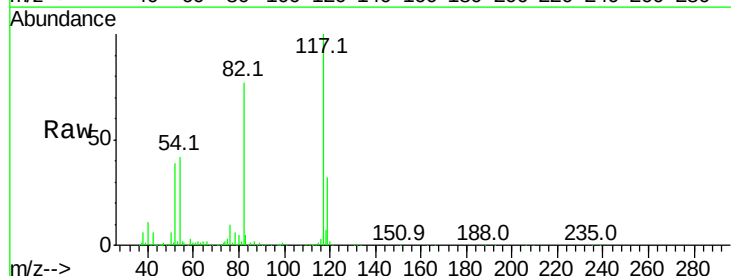
Tgt Ion:117 Resp: 2426847

Ion Ratio Lower Upper

117 100

82 79.0 0.0 0.0#

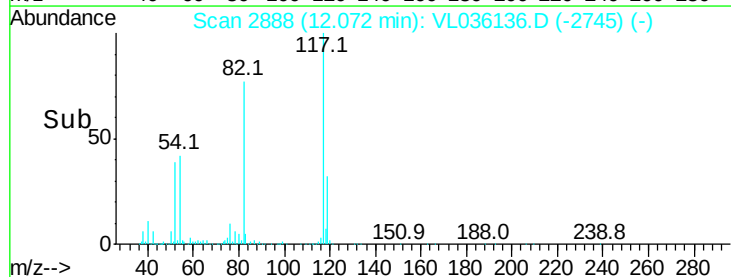
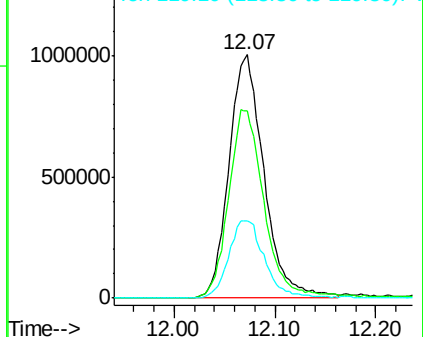
119 32.9 0.0 0.0#

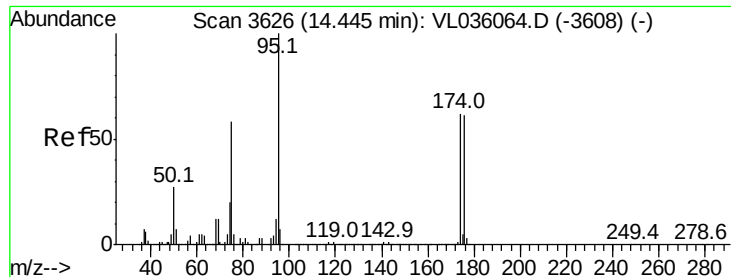


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.596 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. -0.05 min

Lab File: VL036136.D

Acq: 10 Dec 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

SS-5BDL

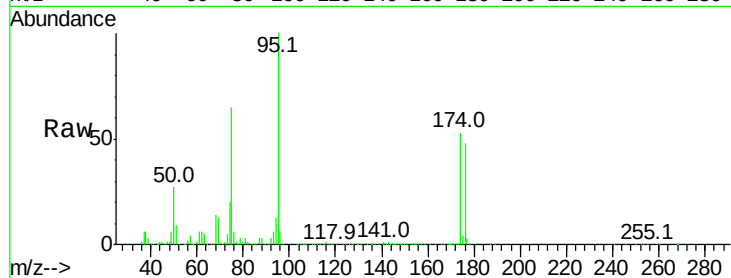
Tgt Ion: 95 Resp: 2041784

Ion Ratio Lower Upper

95 100

174 57.4 50.7 76.1

175 3.8 4.0 6.0#



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

