

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036116.D
 Acq On : 9 Dec 2020 4:50
 Operator : SY/AP
 Sample : L4948-12 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1B

Quant Time: Dec 09 07:24:40 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	5.67	49	1149994	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	2347597	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2132419	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1796208	10.61	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

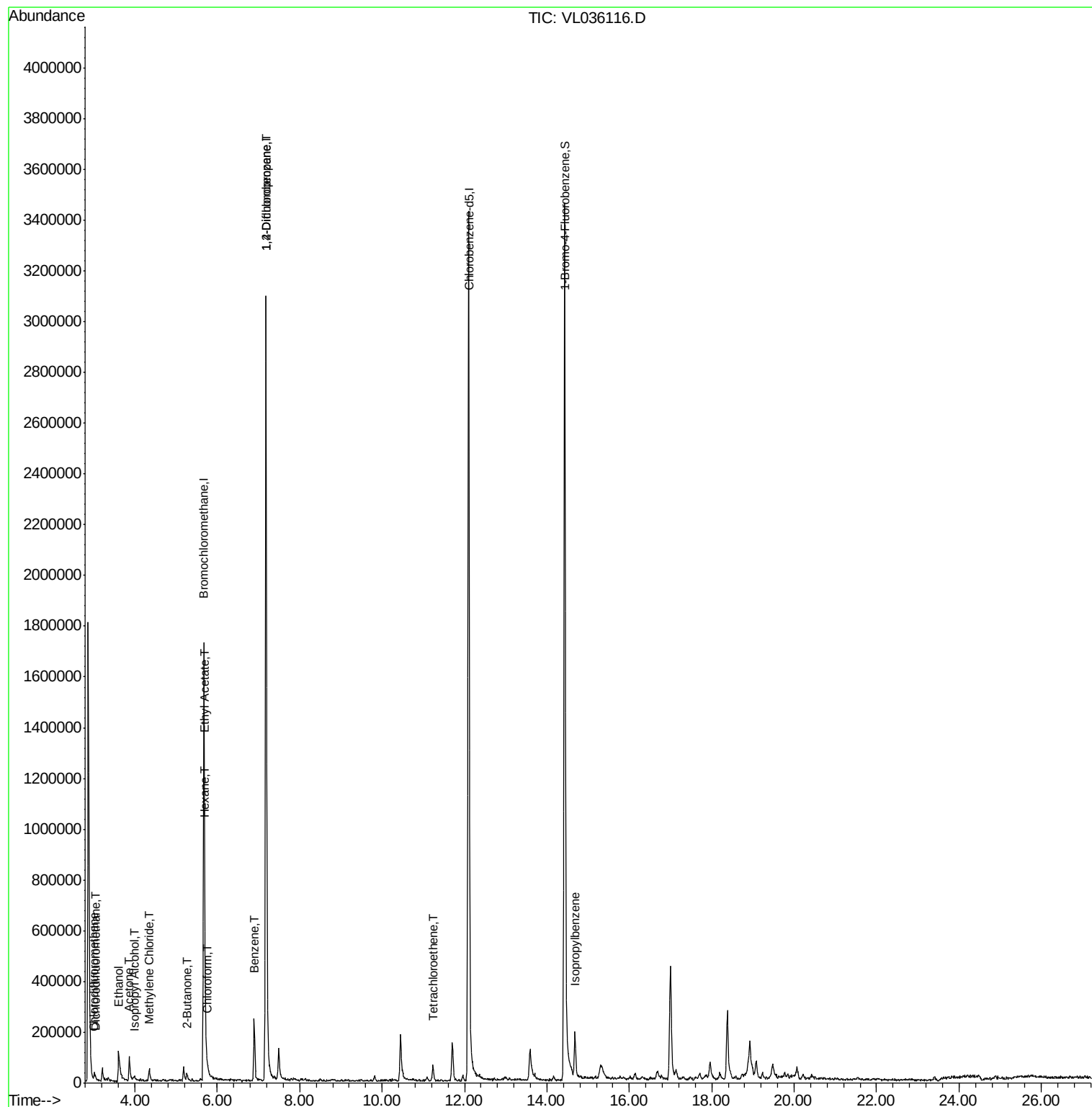
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	5699	0.043	ppbv	91
3) Chlorodifluoromethane	3.00	51	4149	0.032	ppbv #	82
13) Ethanol	3.61	45	127271	14.046	ppbv	88
15) Acetone	3.86	43	121516	0.879	ppbv #	83
19) Isopropyl Alcohol	3.98	45	5598	0.066	ppbv #	100
20) Methylene Chloride	4.35	84	8106	0.143	ppbv #	72
25) Ethyl Acetate	5.69	43	10031	0.036	ppbv #	85
26) Hexane	5.70	57	8357	0.067	ppbv #	50
29) Chloroform	5.75	83	5413	0.033	ppbv	88
34) 2-Butanone	5.25	43	14996	0.096	ppbv #	56
36) Benzene	6.90	78	206354	1.037	ppbv #	93
39) 1,2-Dichloropropane	7.18	63	743246	9.460	ppbv #	23
52) Tetrachloroethene	11.23	164	2558	0.036	ppbv	97
62) Isopropylbenzene	14.68	105	71038	0.207	ppbv #	50

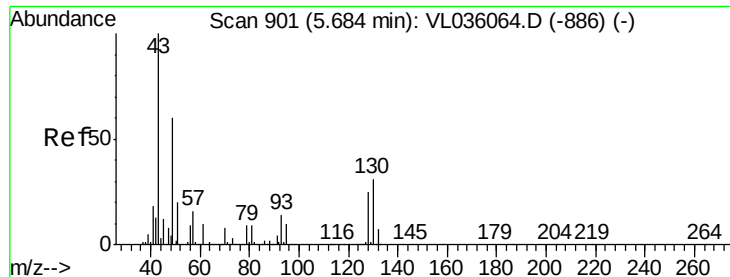
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SS-1B

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Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampleId :

SS-1B

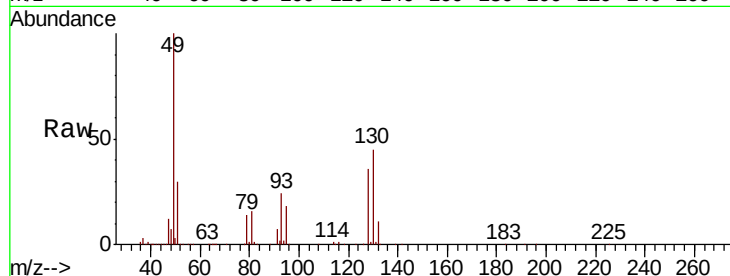
Tot Ion: 49 Resp: 1149994

Ion Ratio Lower Upper

49 100

128 36.7 21.1 63.1

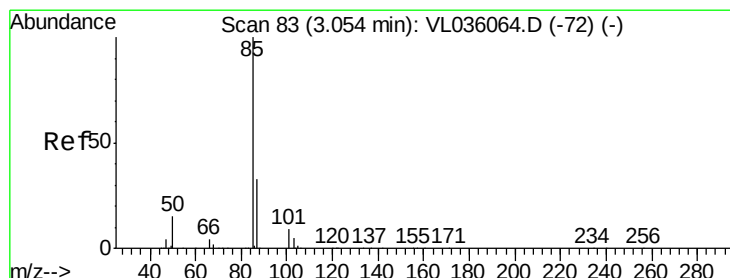
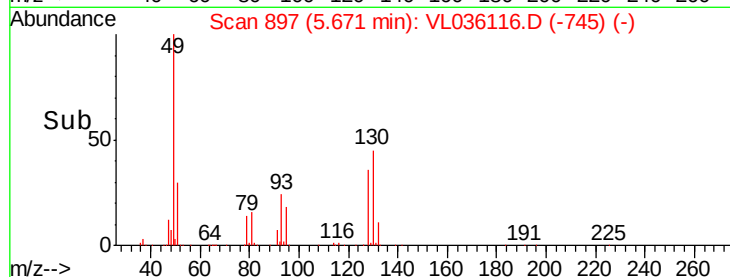
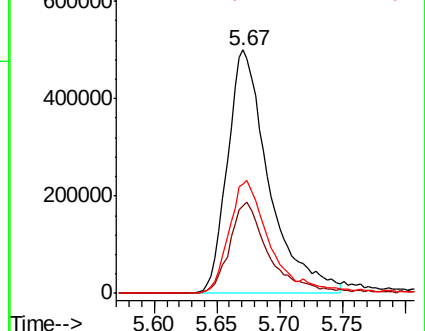
130 47.1 27.1 81.3



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: 0.043 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL036116.D

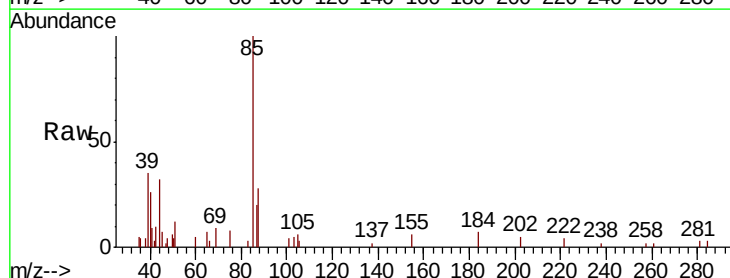
Acq: 9 Dec 2020 4:50

Tgt Ion: 85 Resp: 5699

Ion Ratio Lower Upper

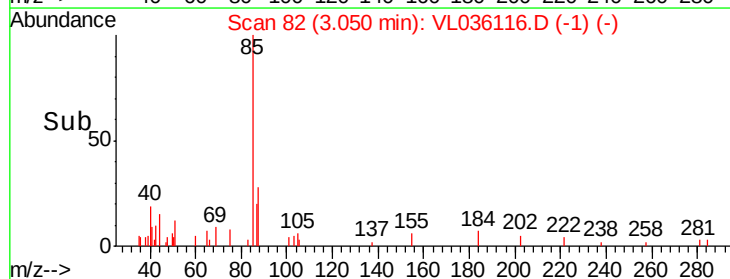
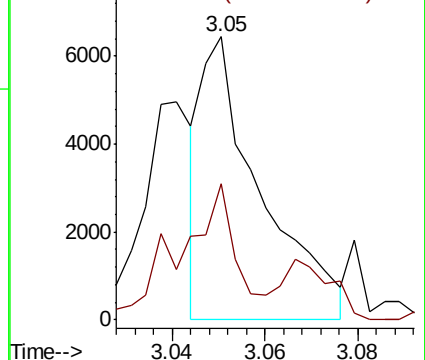
85 100

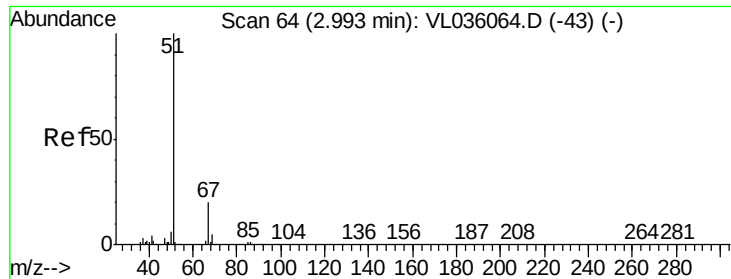
87 38.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampleId :

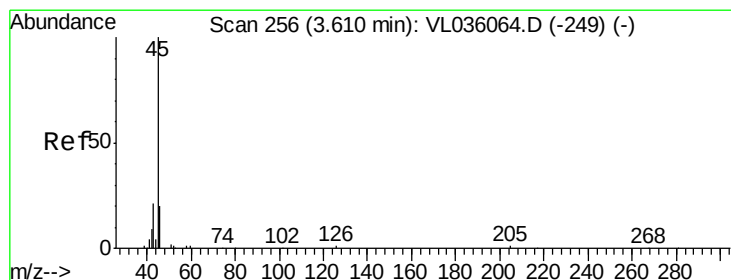
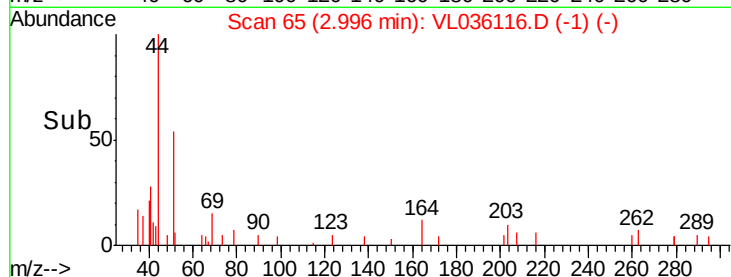
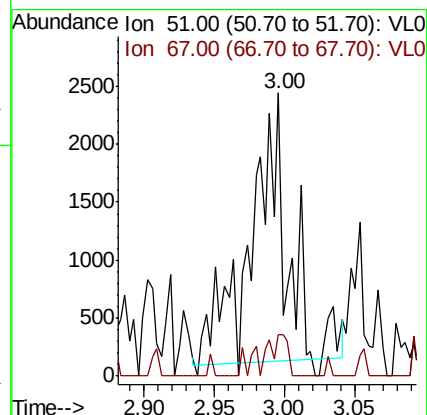
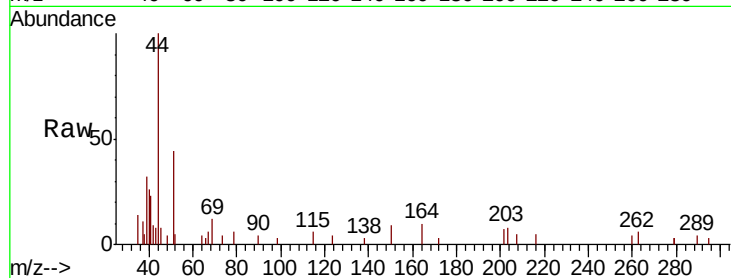
SS-1B

Tot Ion: 51 Resp: 4149

Ion Ratio Lower Upper

51 100

67 10.0 14.3 21.5#



#13

Ethanol

Concen: 14.046 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL036116.D

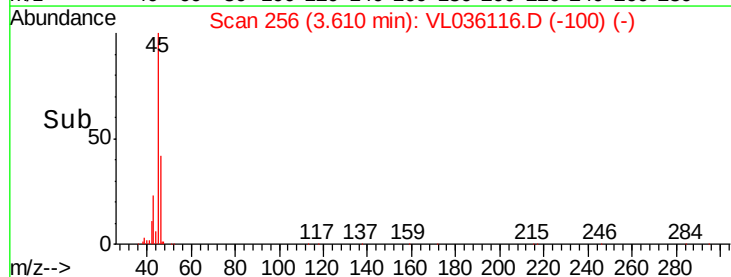
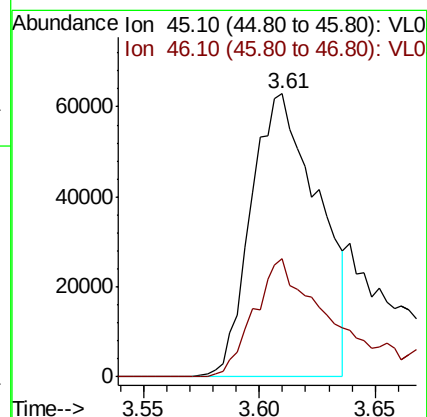
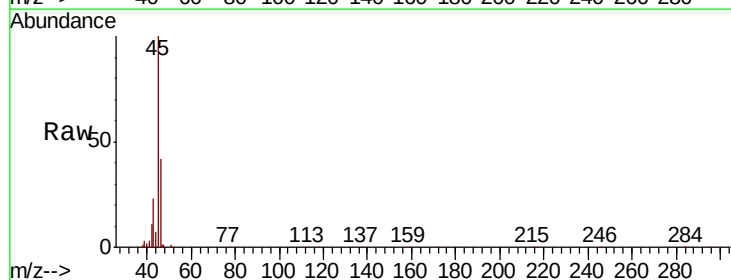
Acq: 9 Dec 2020 4:50

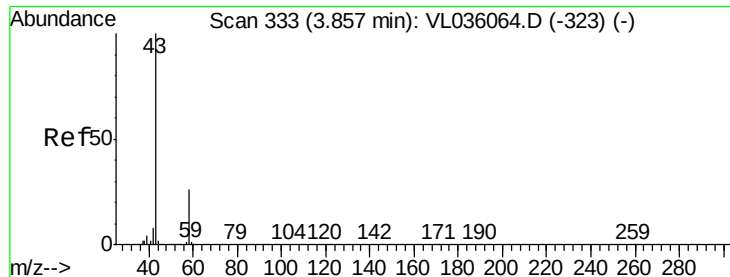
Tgt Ion: 45 Resp: 127271

Ion Ratio Lower Upper

45 100

46 55.2 19.0 75.8





#15

Acetone

Concen: 0.879 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampleId :

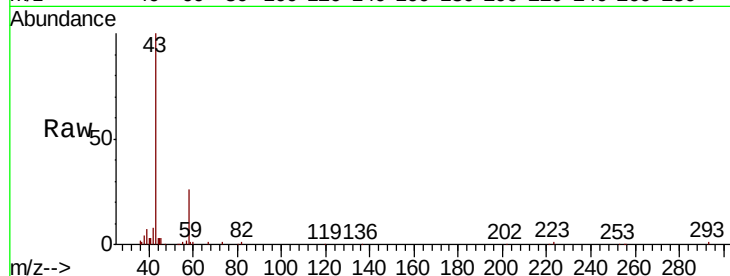
SS-1B

Tot Ion: 43 Resp: 121516

Ion Ratio Lower Upper

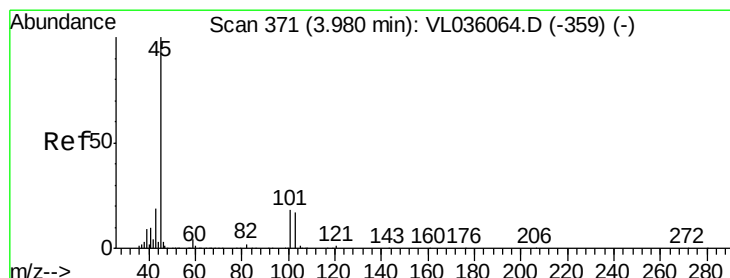
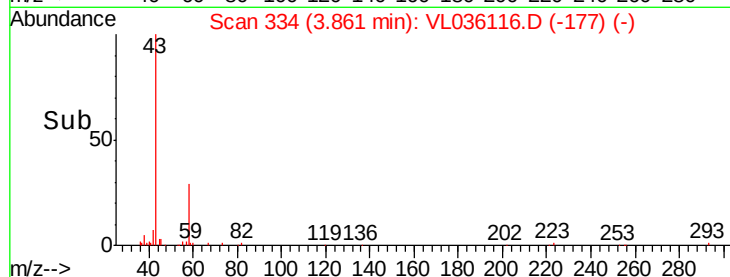
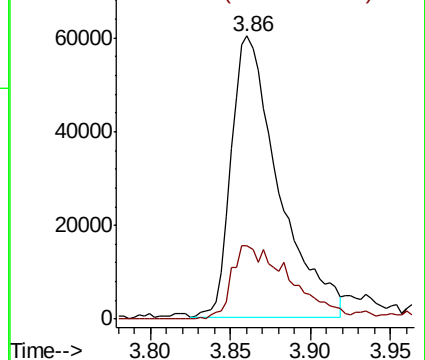
43 100

58 34.9 20.9 31.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.066 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL036116.D

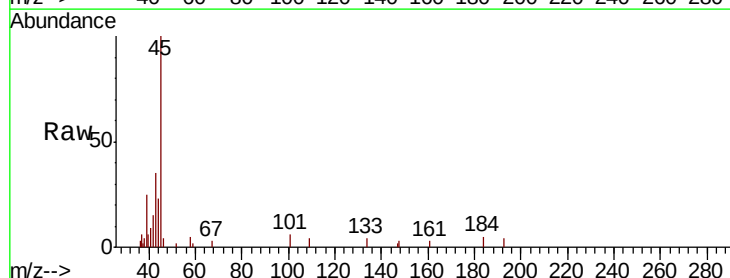
Acq: 9 Dec 2020 4:50

Tgt Ion: 45 Resp: 5598

Ion Ratio Lower Upper

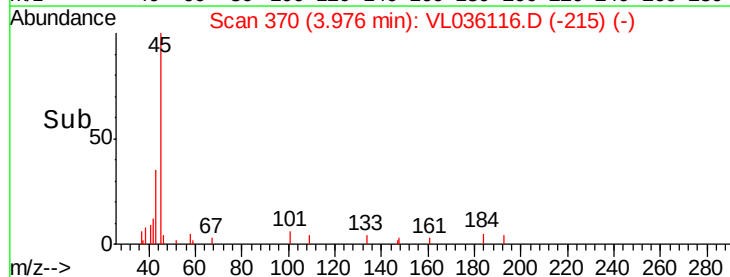
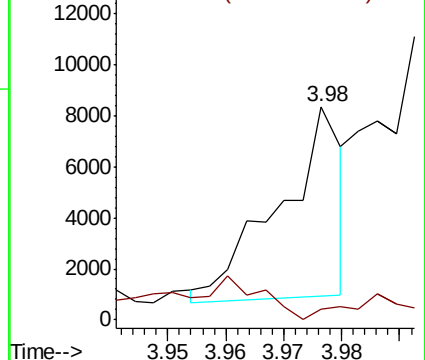
45 100

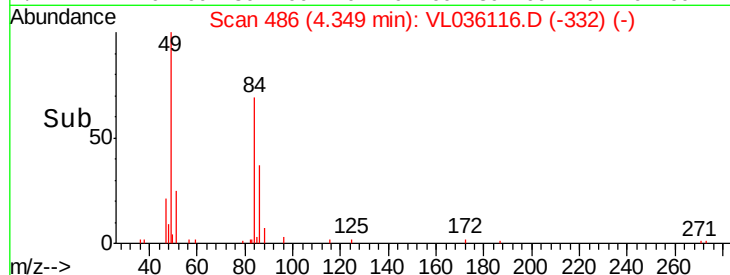
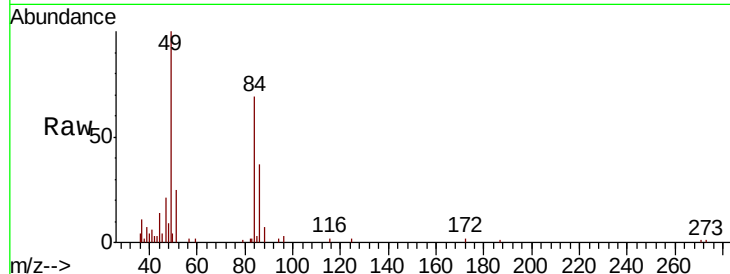
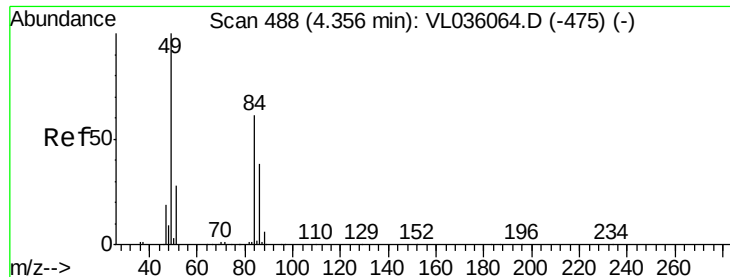
58 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

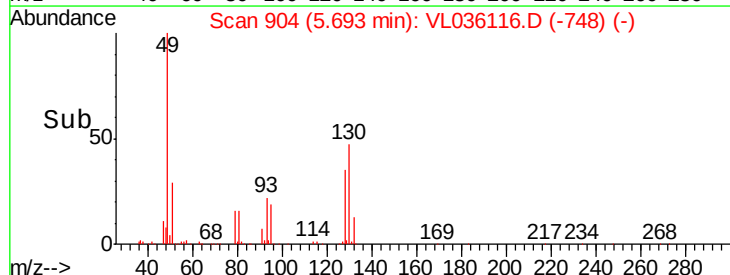
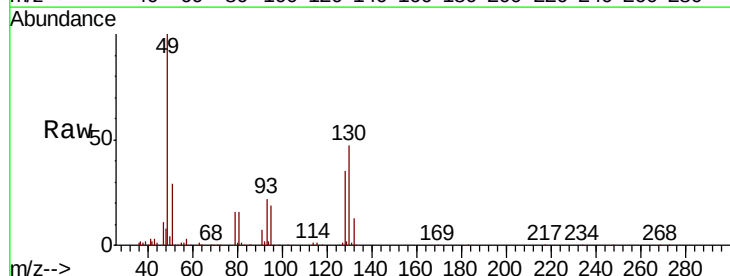
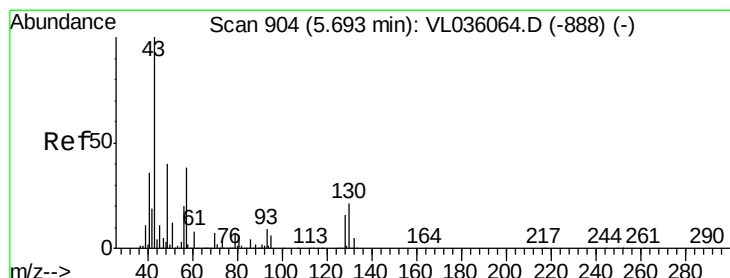
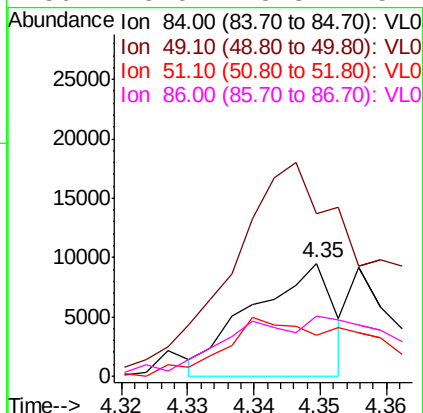




#20
Methylene Chloride
Concen: 0.143 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

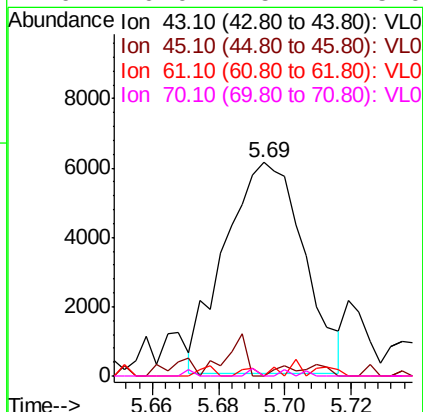
Instrument :
MSVOA_L
ClientSampled :
SS-1B

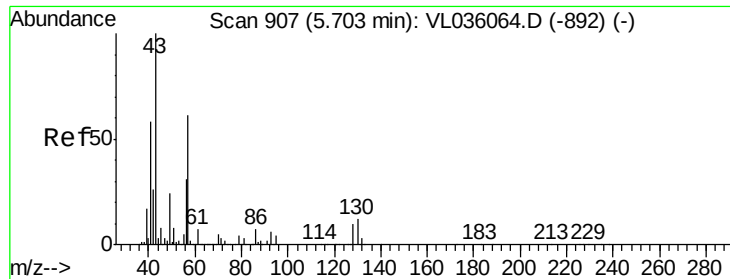
Tot Ion:	84	Resp:	8106
Ion	Ratio	Lower	Upper
84	100		
49	123.1	133.0	199.4#
51	33.1	38.9	58.3#
86	45.0	48.8	73.2#



#25
Ethyl Acetate
Concen: 0.036 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

Tgt Ion:	43	Resp:	10031
Ion	Ratio	Lower	Upper
43	100		
45	9.1	8.2	12.4
61	0.0	7.4	11.2#
70	0.0	5.4	8.0#

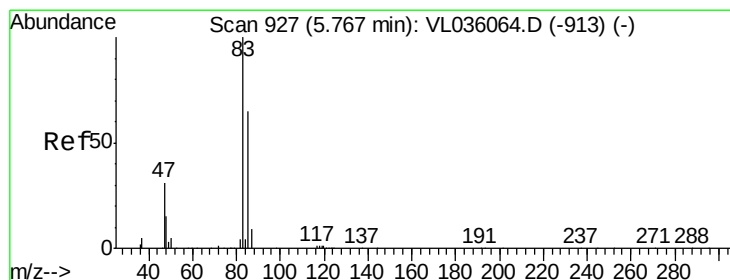
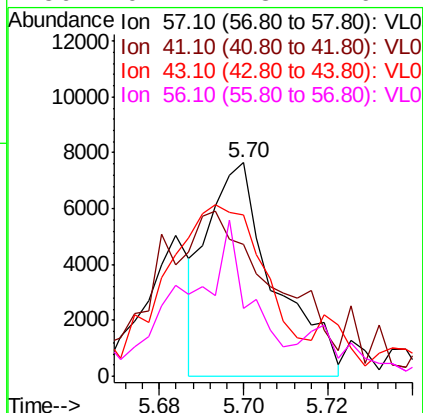
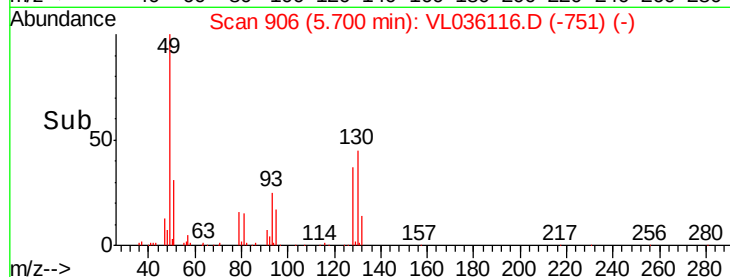
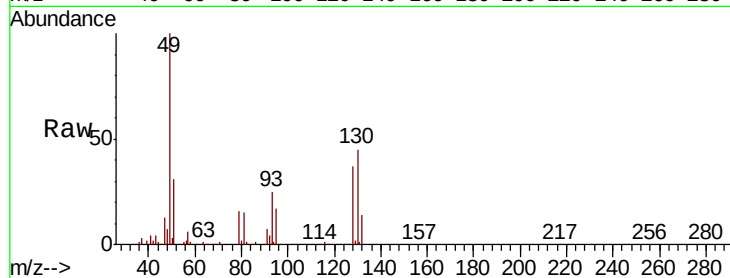




#26
Hexane
Concen: 0.067 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

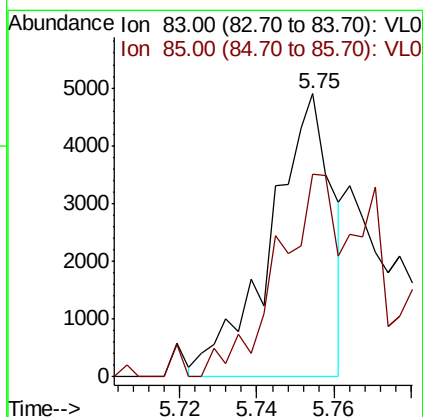
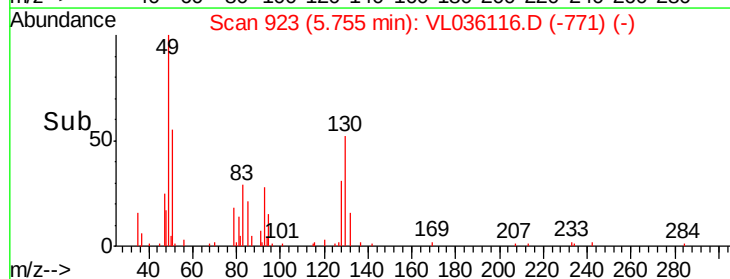
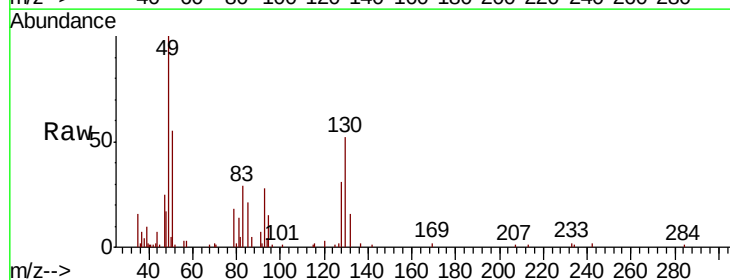
Instrument :
MSVOA_L
ClientSampleId :
SS-1B

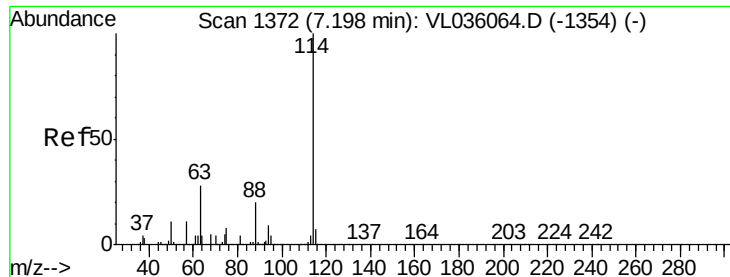
Tot Ion: 57 Resp: 8357
Ion Ratio Lower Upper
57 100
41 169.9 82.9 124.3#
43 180.7 199.9 299.9#
56 102.4 43.1 64.7#



#29
Chloroform
Concen: 0.033 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

Tgt Ion: 83 Resp: 5413
Ion Ratio Lower Upper
83 100
85 74.0 51.8 77.6



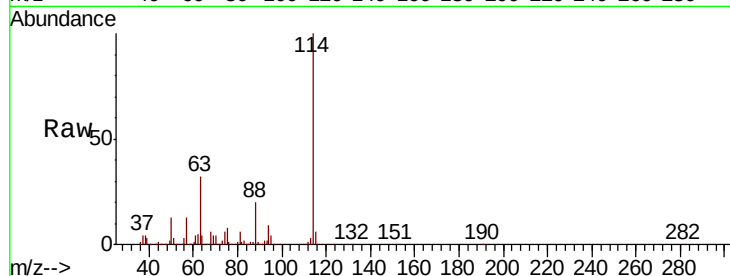


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VL036116.D
 Acq: 9 Dec 2020 4:50

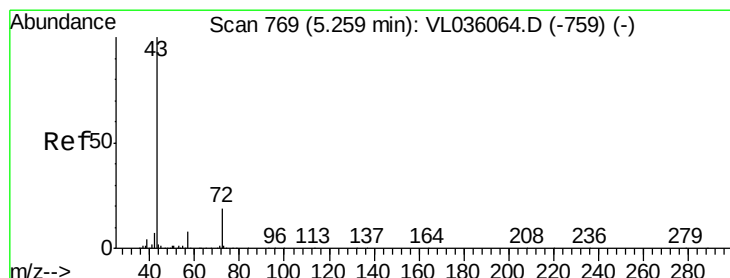
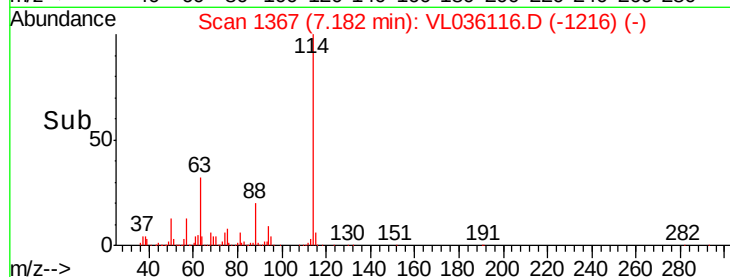
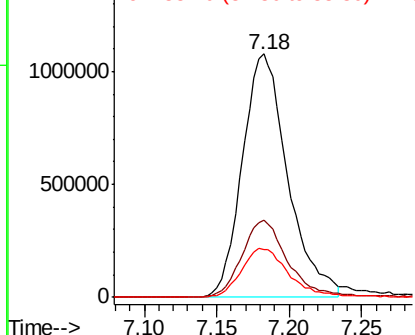
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1B

Tot Ion:114 Resp: 2347597

Ion	Ratio	Lower	Upper
114	100		
63	32.6	23.6	35.4
88	21.3	15.8	23.6



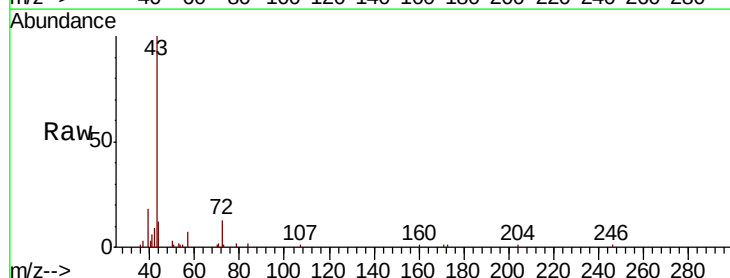
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



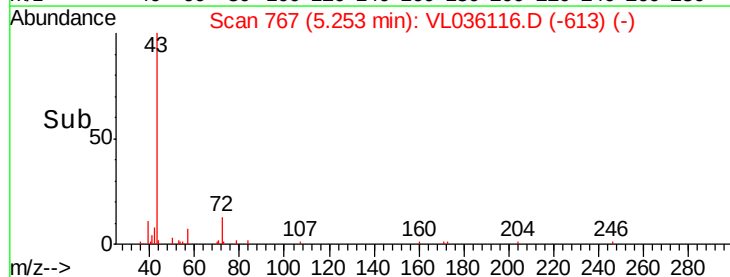
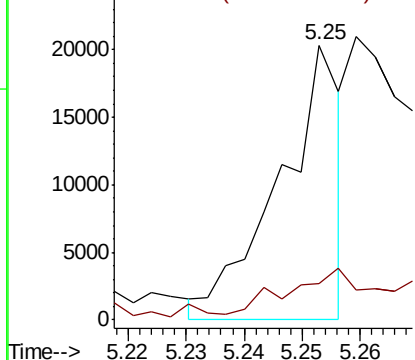
#34
 2-Butanone
 Concen: 0.096 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.01 min
 Lab File: VL036116.D
 Acq: 9 Dec 2020 4:50

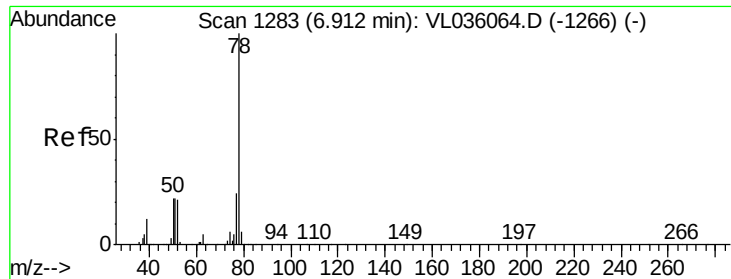
Tgt Ion: 43 Resp: 14996

Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.5	24.7#



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





#36

Benzene

Concen: 1.037 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.02 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampleId :

SS-1B

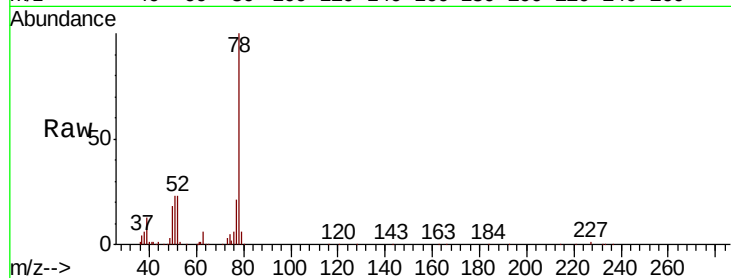
Tot Ion: 78 Resp: 206354

Ion Ratio Lower Upper

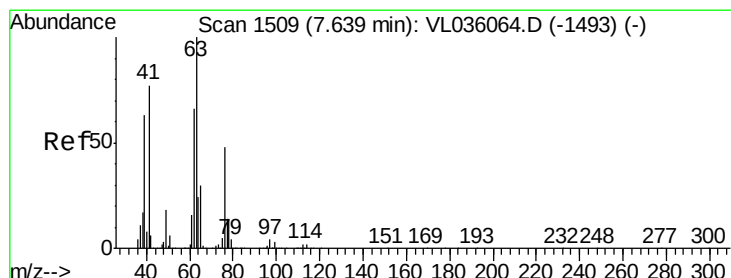
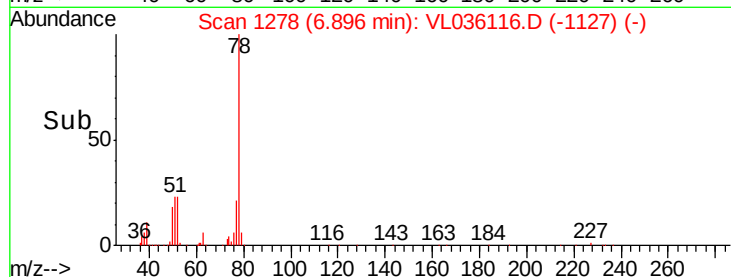
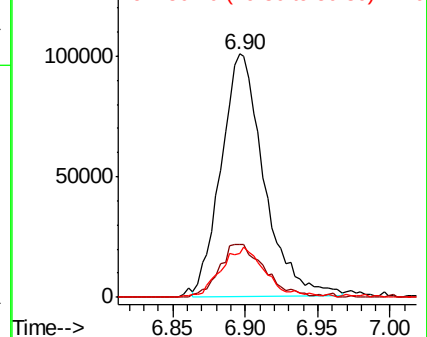
78 100

77 21.7 19.4 29.2

50 17.5 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



#39

1,2-Dichloropropane

Concen: 9.460 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.46 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

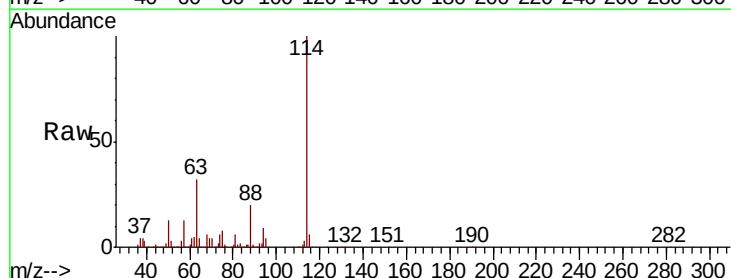
Tgt Ion: 63 Resp: 743246

Ion Ratio Lower Upper

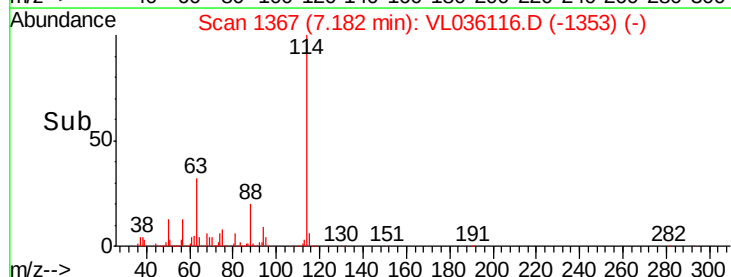
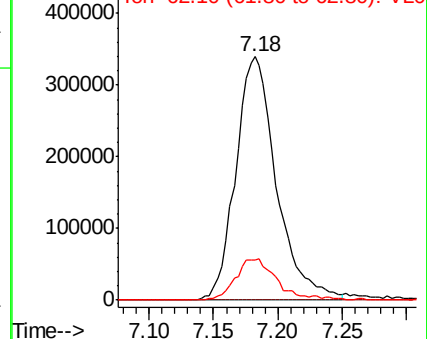
63 100

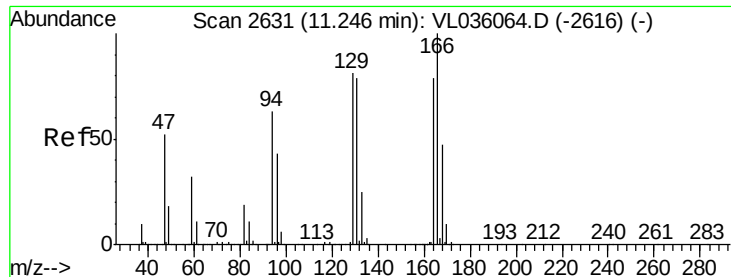
41 0.0 61.9 92.9#

62 16.4 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: 0.036 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.02 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampleId :

SS-1B

Tot Ion:164 Resp: 2558

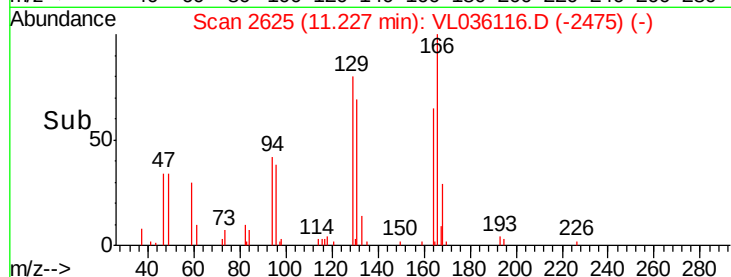
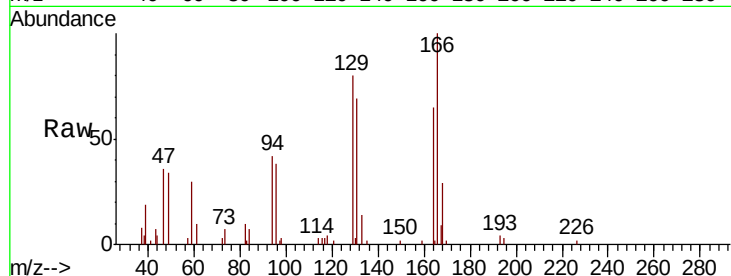
Ion Ratio Lower Upper

164 100

166 131.1 101.9 152.9

129 109.6 82.1 123.1

131 100.7 80.8 121.2

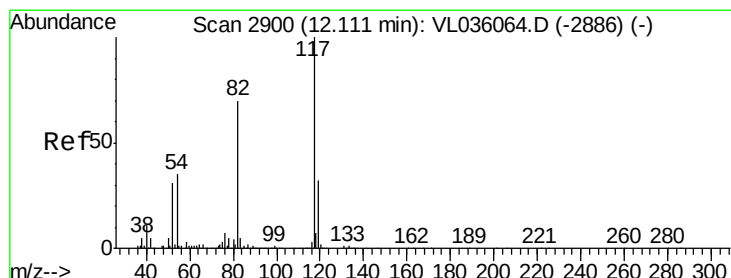
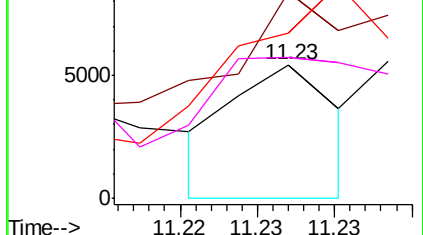


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.10 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

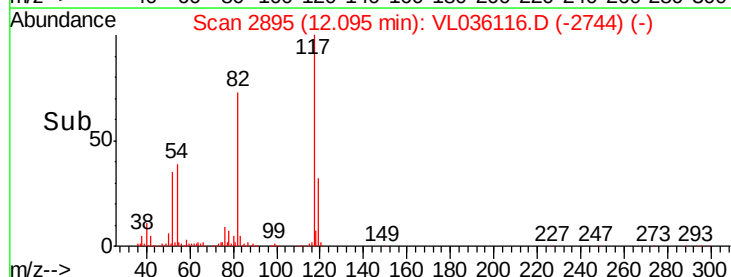
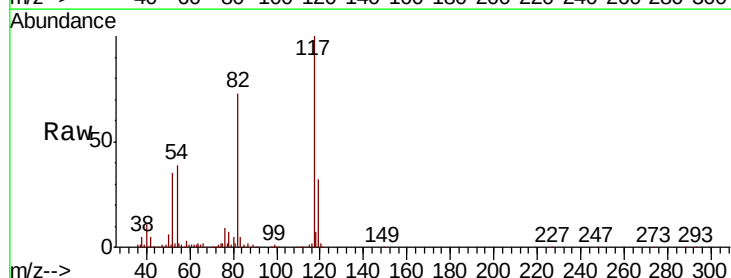
Tgt Ion:117 Resp: 2132419

Ion Ratio Lower Upper

117 100

82 79.1 0.0 0.0#

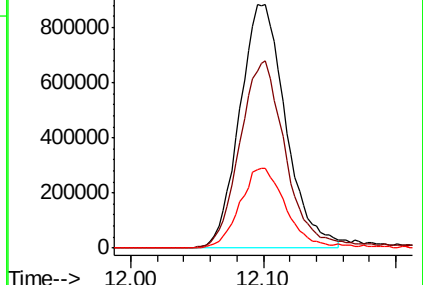
119 33.9 0.0 0.0#

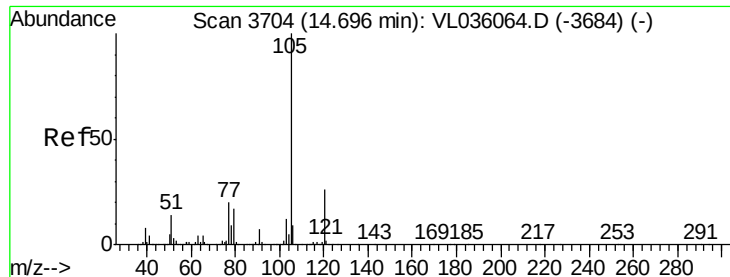


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#62

Isopropylbenzene

Concen: 0.207 ppbv

RT: 14.68 min Scan# 3699

Delta R.T. -0.02 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampleId :

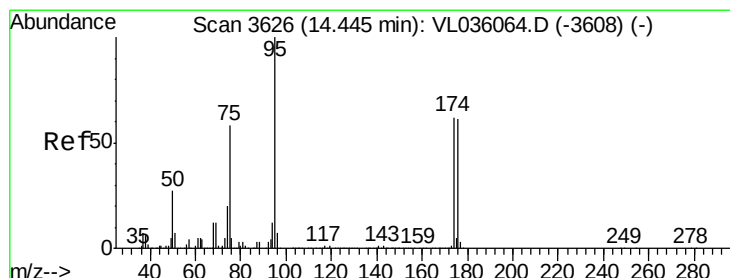
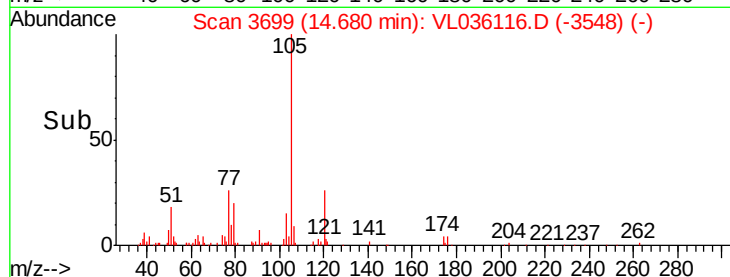
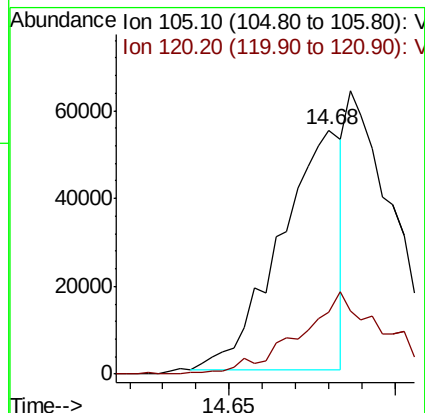
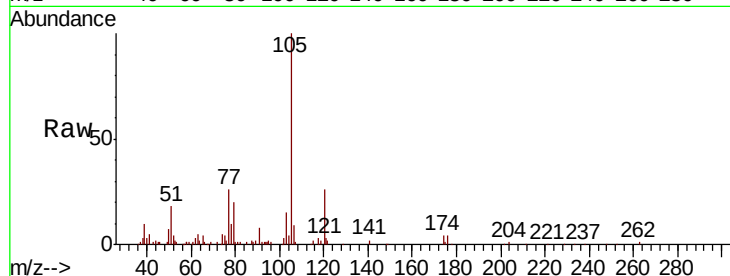
SS-1B

Tot Ion: 105 Resp: 71038

Ion Ratio Lower Upper

105 100

120 0.0 20.1 30.1#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.608 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.02 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Tgt Ion: 95 Resp: 1796208

Ion Ratio Lower Upper

95 100

174 58.8 50.7 76.1

175 4.4 4.0 6.0

