

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035618.D
 Acq On : 15 Sep 2020 3:19
 Operator : SY/AP
 Sample : L3983-06 20X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-11

Quant Time: Sep 15 06:45:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	955310	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	4102877	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4118791	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3036085	10.38	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

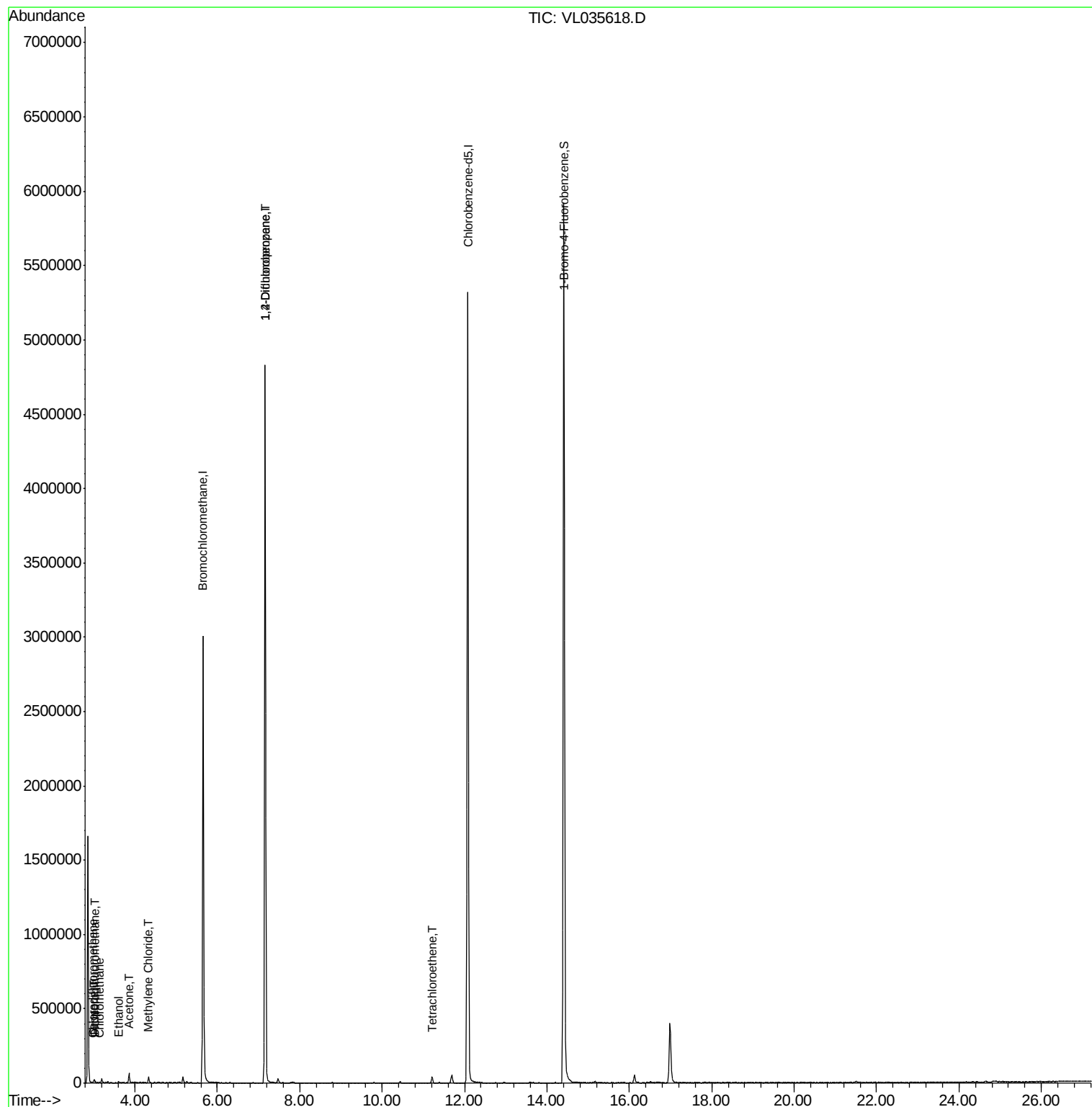
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	7131	0.043	ppbv	95
3) Chlorodifluoromethane	2.98	51	4341	0.041	ppbv #	87
4) Chloromethane	3.12	50	1927	0.034	ppbv #	83
9) Propene	3.00	41	2542	0.062	ppbv #	62
13) Ethanol	3.61	45	7050	0.698	ppbv	99
15) Acetone	3.85	43	47693	0.453	ppbv #	63
20) Methylene Chloride	4.33	84	19076	0.243	ppbv #	94
39) 1,2-Dichloropropane	7.16	63	736021	8.204	ppbv #	32
52) Tetrachloroethene	11.21	164	6831	0.044	ppbv #	86

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
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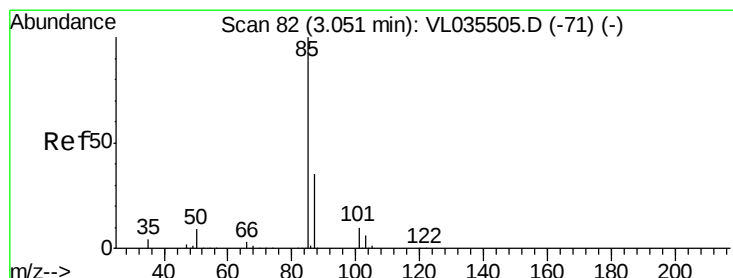
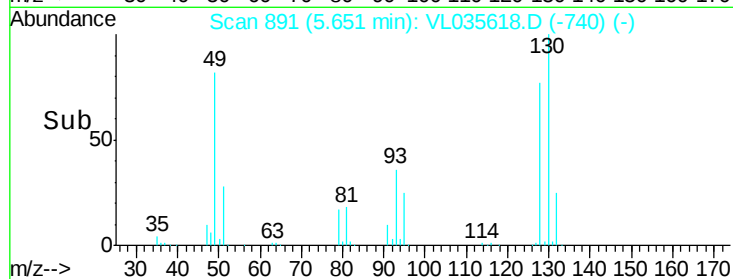
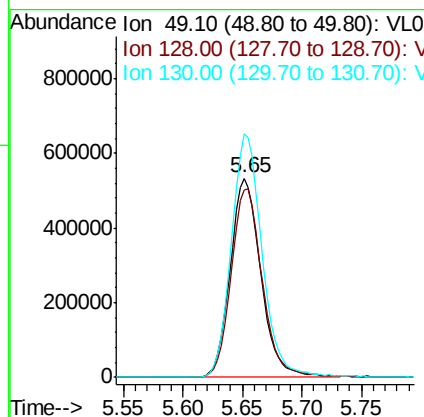
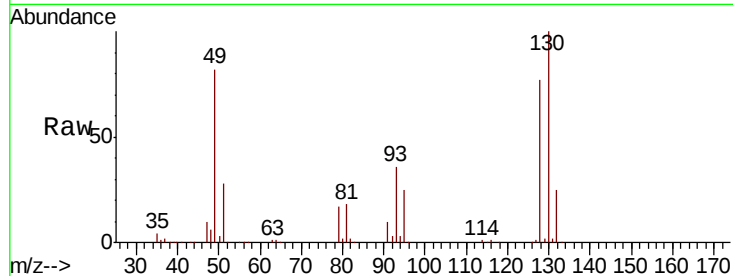




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL035618.D
Acq: 15 Sep 2020 3:19

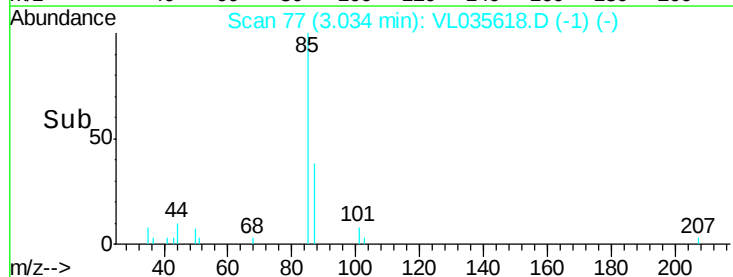
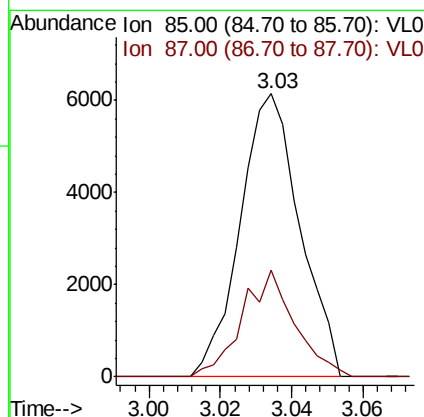
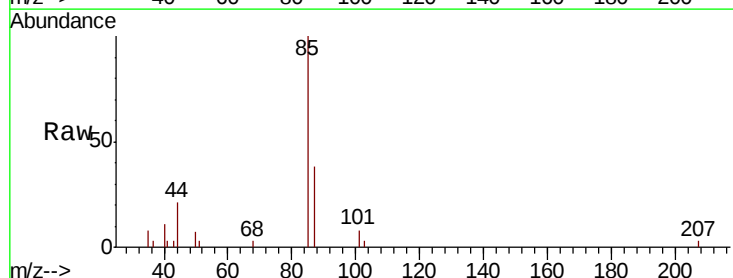
Instrument :
MSVOA_L
ClientSampled :
SV-11

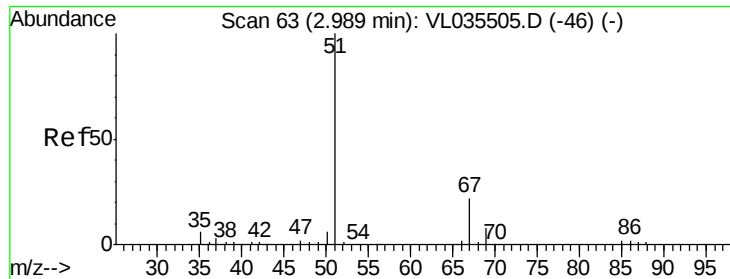
Tot Ion: 49 Resp: 955310
Ion Ratio Lower Upper
49 100
128 96.9 50.0 150.1
130 123.3 64.4 193.2



#2
Dichlorodifluoromethane
Concen: 0.043 ppbv
RT: 3.03 min Scan# 77
Delta R.T. -0.00 min
Lab File: VL035618.D
Acq: 15 Sep 2020 3:19

Tgt Ion: 85 Resp: 7131
Ion Ratio Lower Upper
85 100
87 37.8 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.041 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL035618.D

Acq: 15 Sep 2020 3:19

Instrument :

MSVOA_L

ClientSampleId :

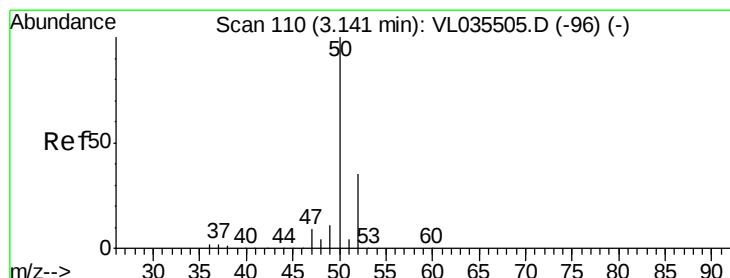
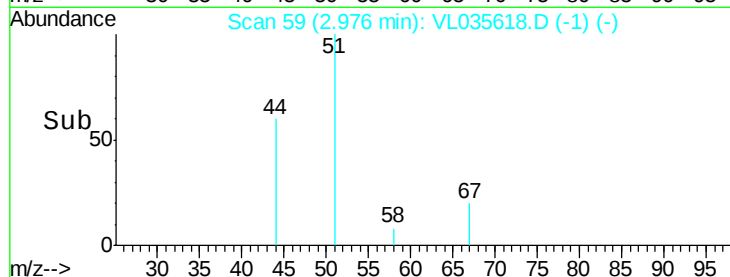
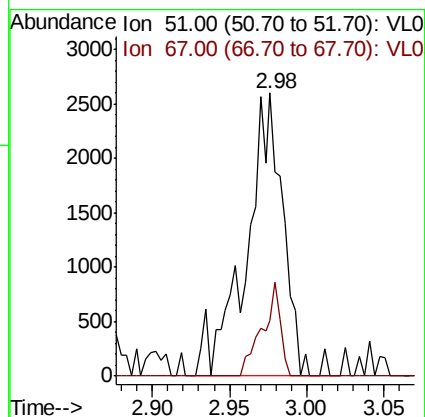
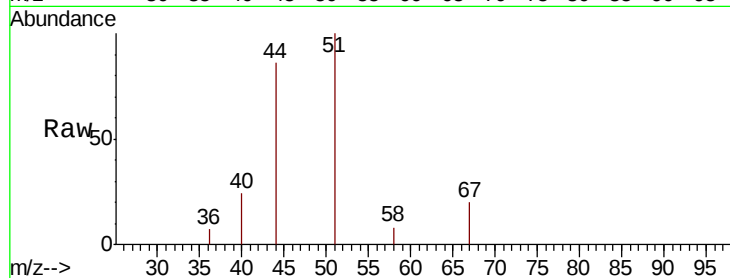
SV-11

Tot Ion: 51 Resp: 4341

Ion Ratio Lower Upper

51 100

67 16.1 17.8 26.8#



#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL035618.D

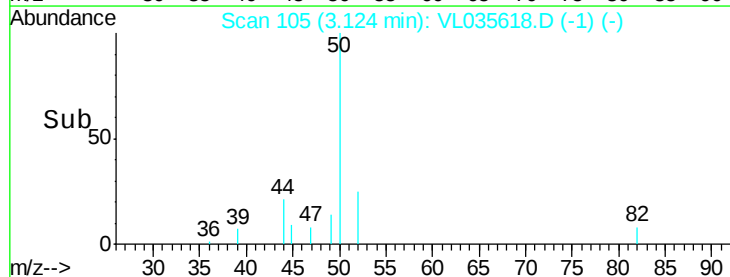
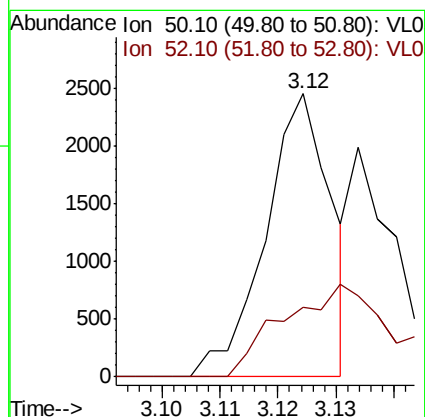
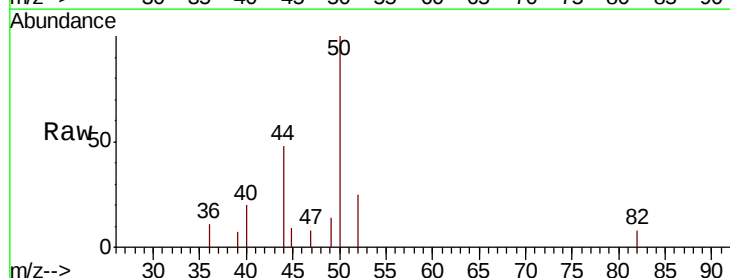
Acq: 15 Sep 2020 3:19

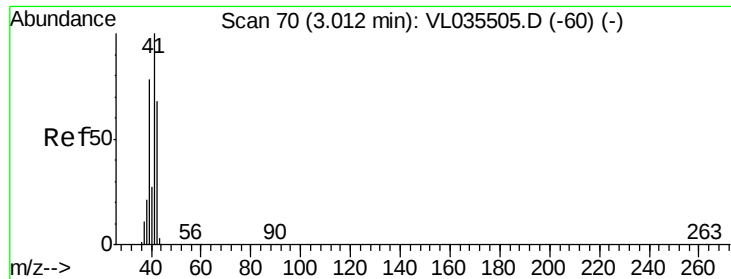
Tgt Ion: 50 Resp: 1927

Ion Ratio Lower Upper

50 100

52 24.8 27.7 41.5#





#9

Propene

Concen: 0.062 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL035618.D

Acq: 15 Sep 2020 3:19

Instrument :

MSVOA_L

ClientSampleId :

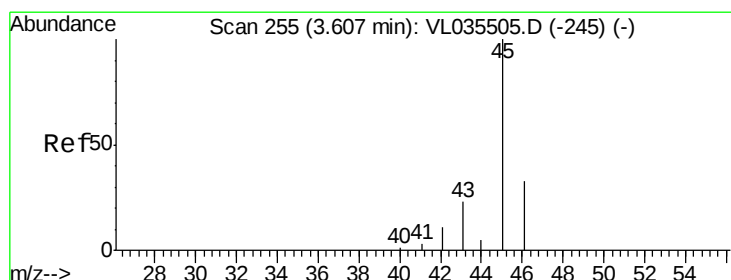
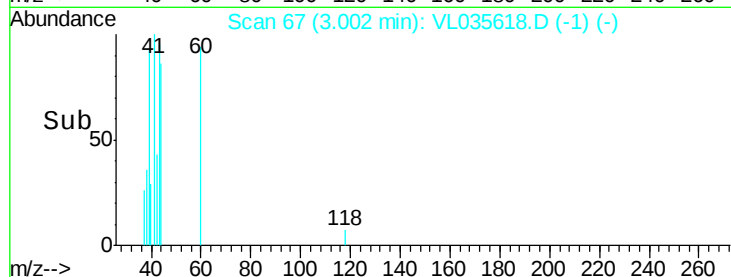
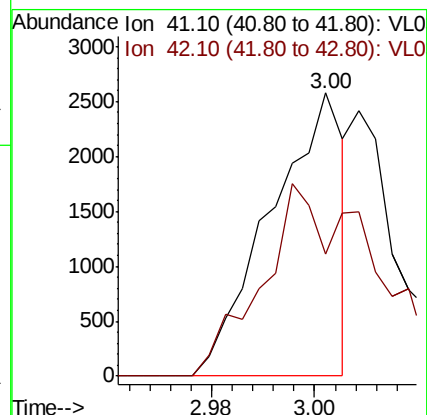
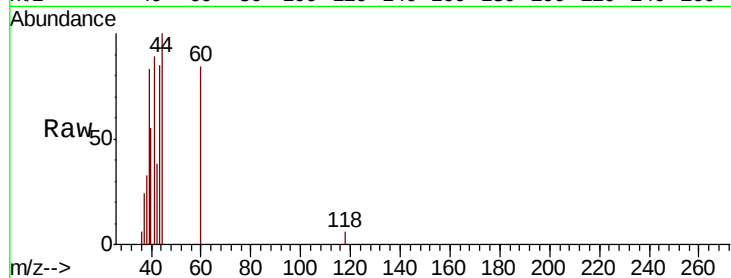
SV-11

Tot Ion: 41 Resp: 2542

Ion Ratio Lower Upper

41 100

42 101.4 56.3 84.5#



#13

Ethanol

Concen: 0.698 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL035618.D

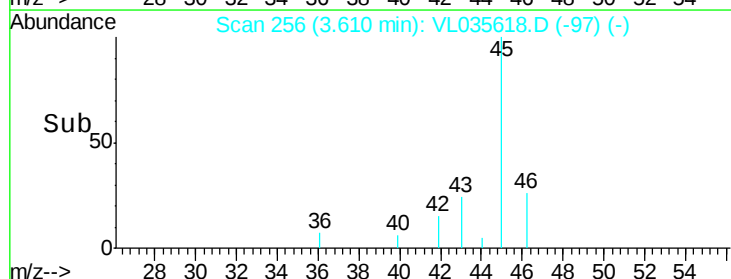
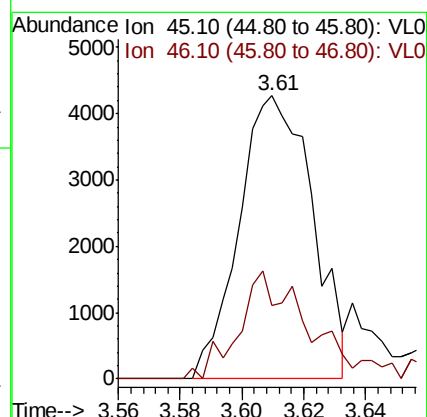
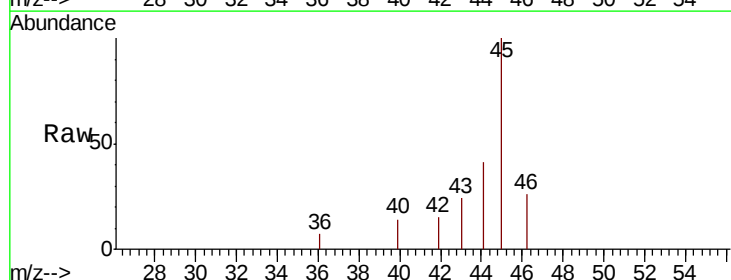
Acq: 15 Sep 2020 3:19

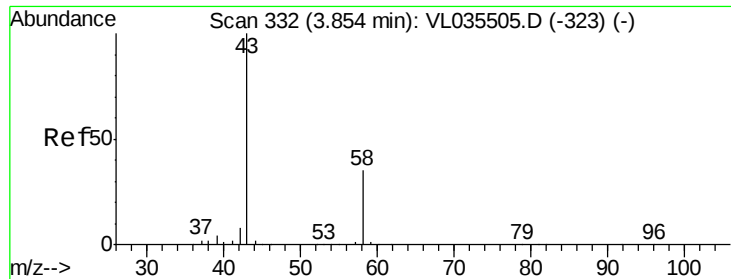
Tgt Ion: 45 Resp: 7050

Ion Ratio Lower Upper

45 100

46 38.3 15.2 60.6





#15

Acetone

Concen: 0.453 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL035618.D

Acq: 15 Sep 2020 3:19

Instrument :

MSVOA_L

ClientSampled :

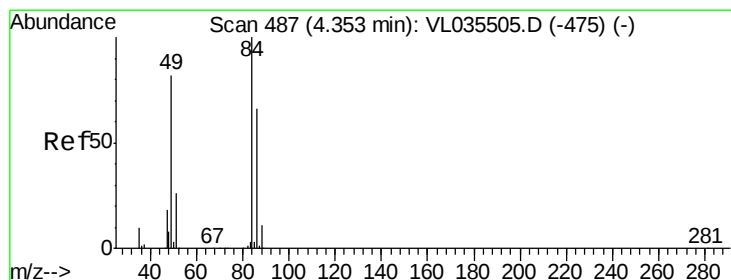
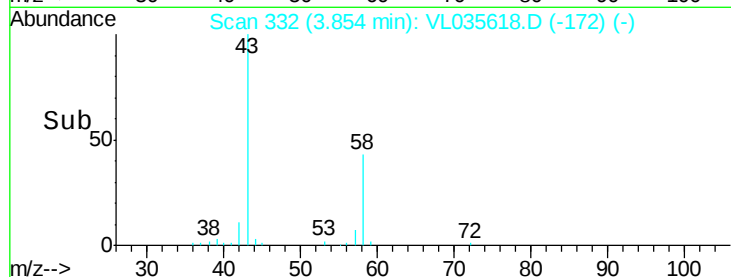
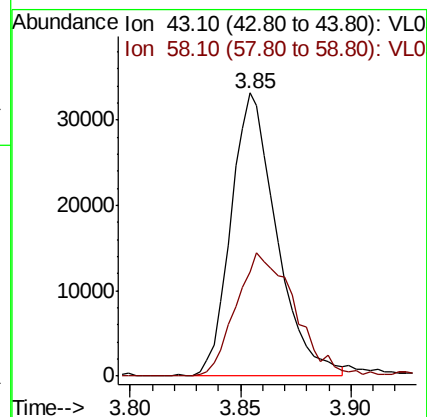
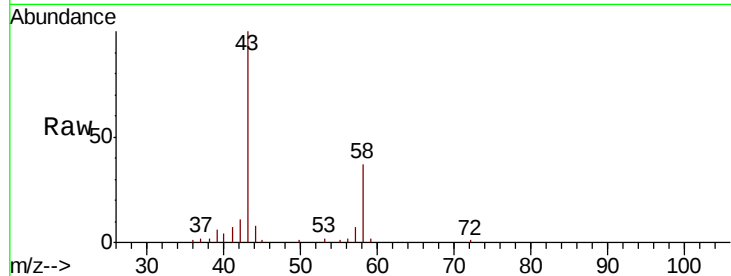
SV-11

Tot Ion: 43 Resp: 47693

Ion Ratio Lower Upper

43 100

58 57.0 28.4 42.6#



#20

Methylene Chloride

Concen: 0.243 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.01 min

Lab File: VL035618.D

Acq: 15 Sep 2020 3:19

Tgt Ion: 84 Resp: 19076

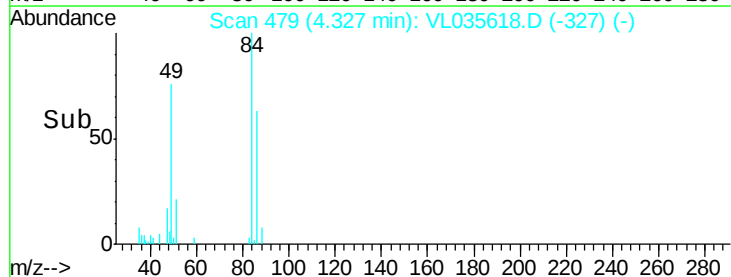
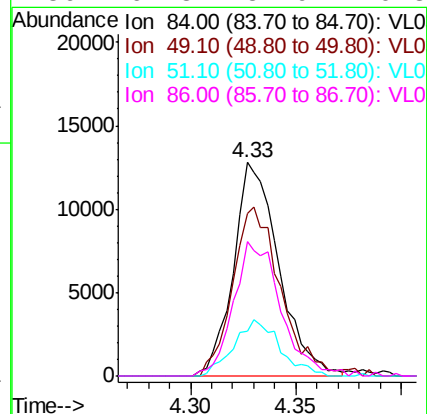
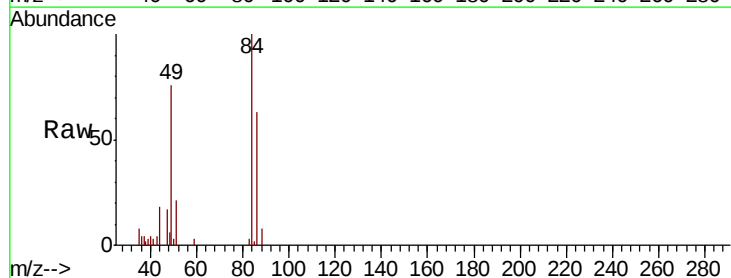
Ion Ratio Lower Upper

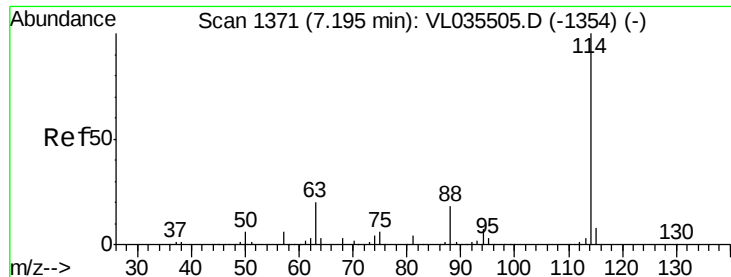
84 100

49 75.9 65.4 98.0

51 21.0 21.5 32.3#

86 62.8 52.9 79.3

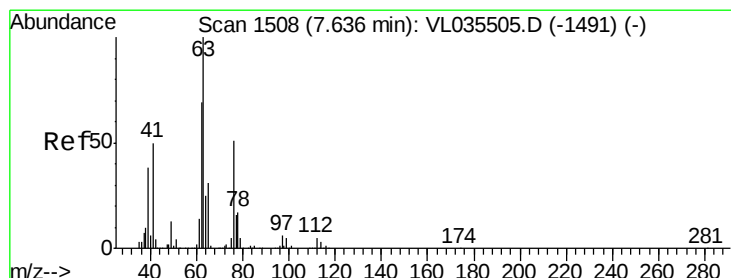
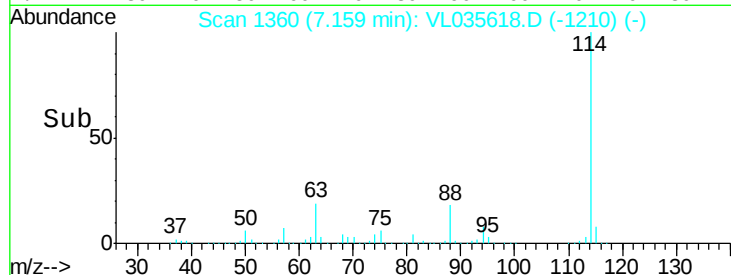
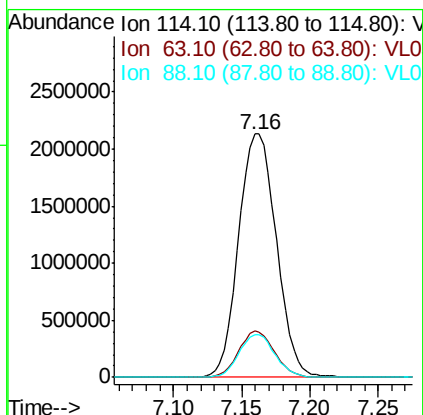
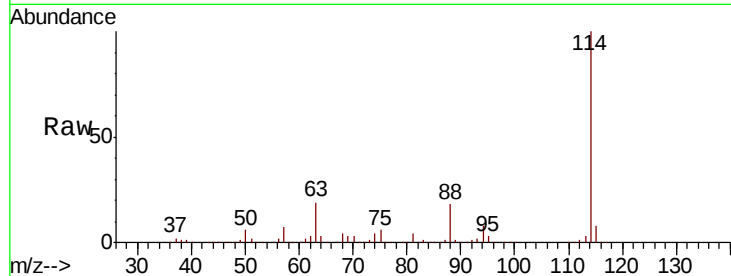




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.02 min
 Lab File: VL035618.D
 Acq: 15 Sep 2020 3:19

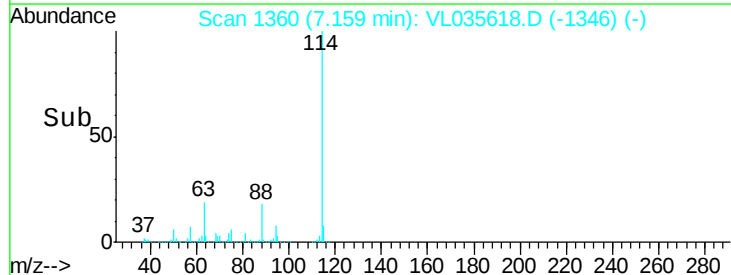
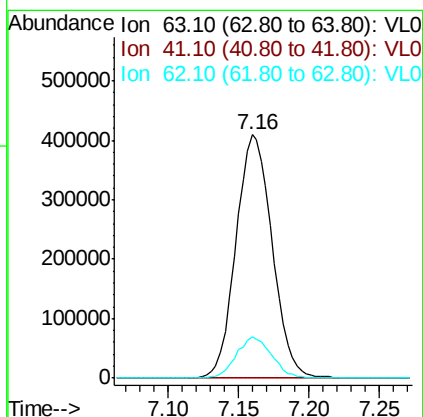
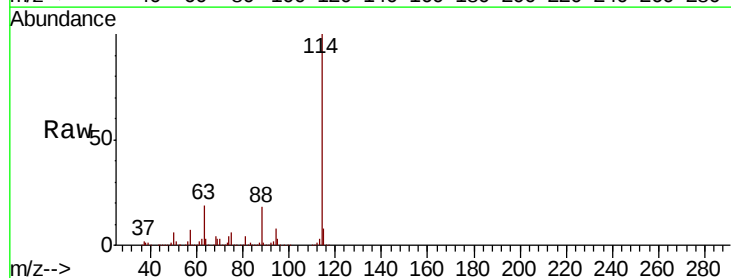
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-11

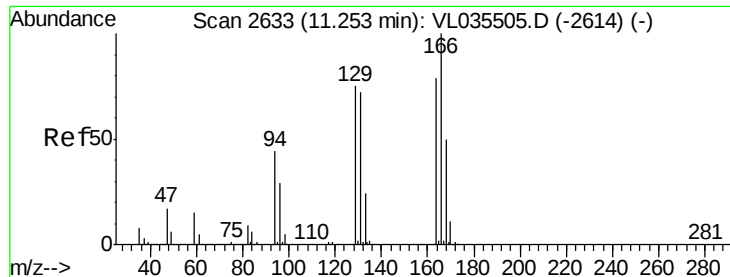
Tot Ion:114 Resp: 4102877
 Ion Ratio Lower Upper
 114 100
 63 18.0 14.7 22.1
 88 16.8 13.4 20.2



#39
 1,2-Dichloropropane
 Concen: 8.204 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.45 min
 Lab File: VL035618.D
 Acq: 15 Sep 2020 3:19

Tgt Ion: 63 Resp: 736021
 Ion Ratio Lower Upper
 63 100
 41 0.0 40.0 60.0#
 62 17.1 55.4 83.0#





#52

Tetrachloroethene

Concen: 0.044 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL035618.D

Acq: 15 Sep 2020 3:19

Instrument :

MSVOA_L

ClientSampleId :

SV-11

Tot Ion:164 Resp: 6831

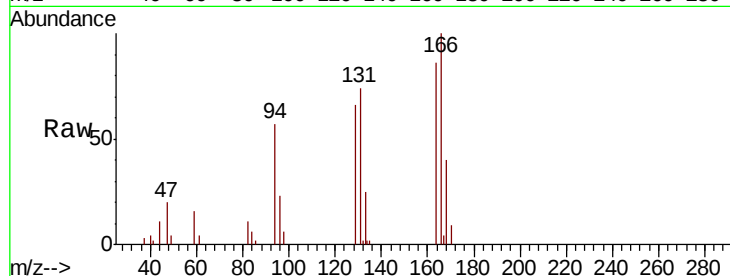
Ion Ratio Lower Upper

164 100

166 111.5 100.9 151.3

129 74.3 75.3 112.9#

131 81.5 73.0 109.4

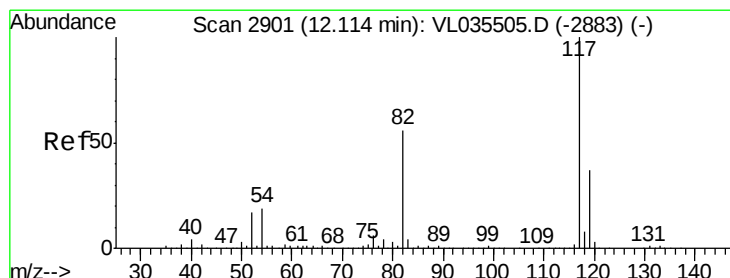
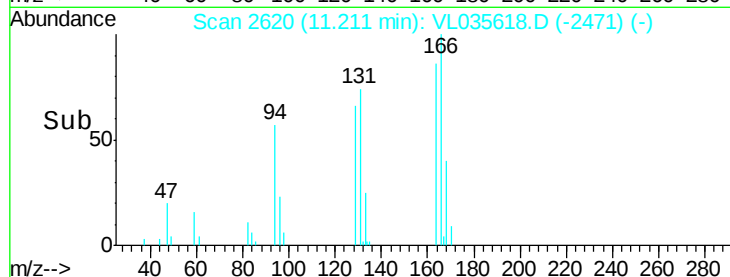
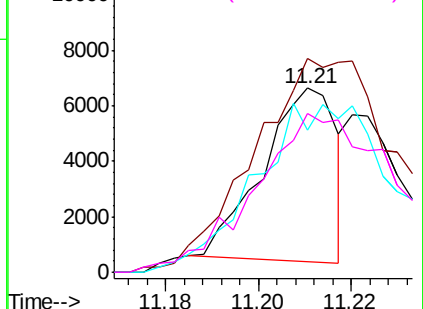


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.08 min Scan# 2890

Delta R.T. -0.02 min

Lab File: VL035618.D

Acq: 15 Sep 2020 3:19

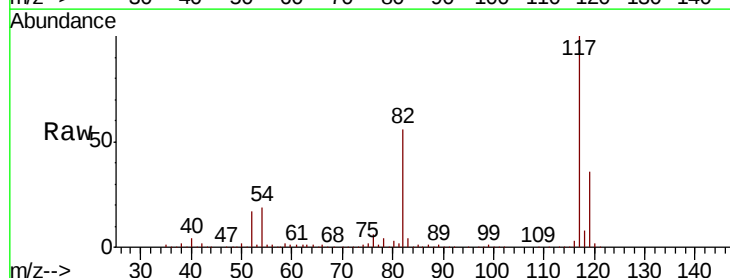
Tgt Ion:117 Resp: 4118791

Ion Ratio Lower Upper

117 100

82 55.0 41.6 62.4

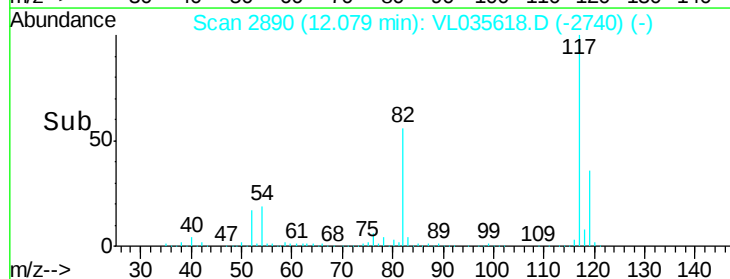
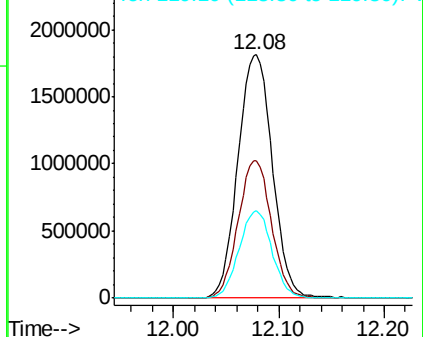
119 34.6 29.3 43.9

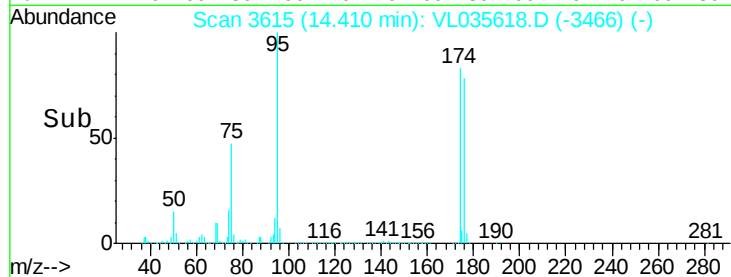
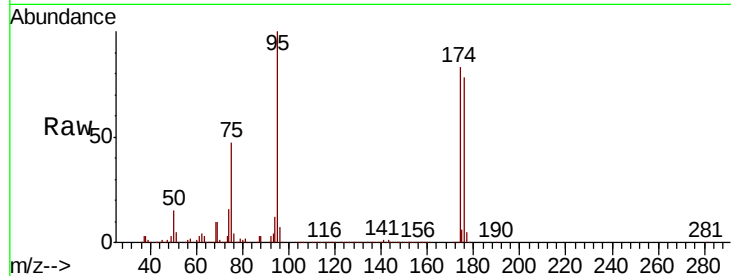
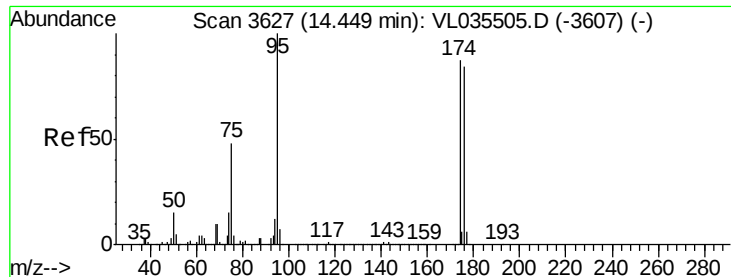


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.380 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.02 min

Lab File: VL035618.D

Acq: 15 Sep 2020 3:19

Instrument :

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ClientSampleId :

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Tot Ion: 95 Resp: 3036085

Ion Ratio Lower Upper

95 100

174 82.9 69.6 104.4

175 5.9 5.1 7.7

