

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020321\
 Data File : VL036300.D
 Acq On : 3 Feb 2021 19:14
 Operator : SY/AP
 Sample : M1295-04 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 01:47:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1618915	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	3387552	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3106453	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2588076	10.07	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

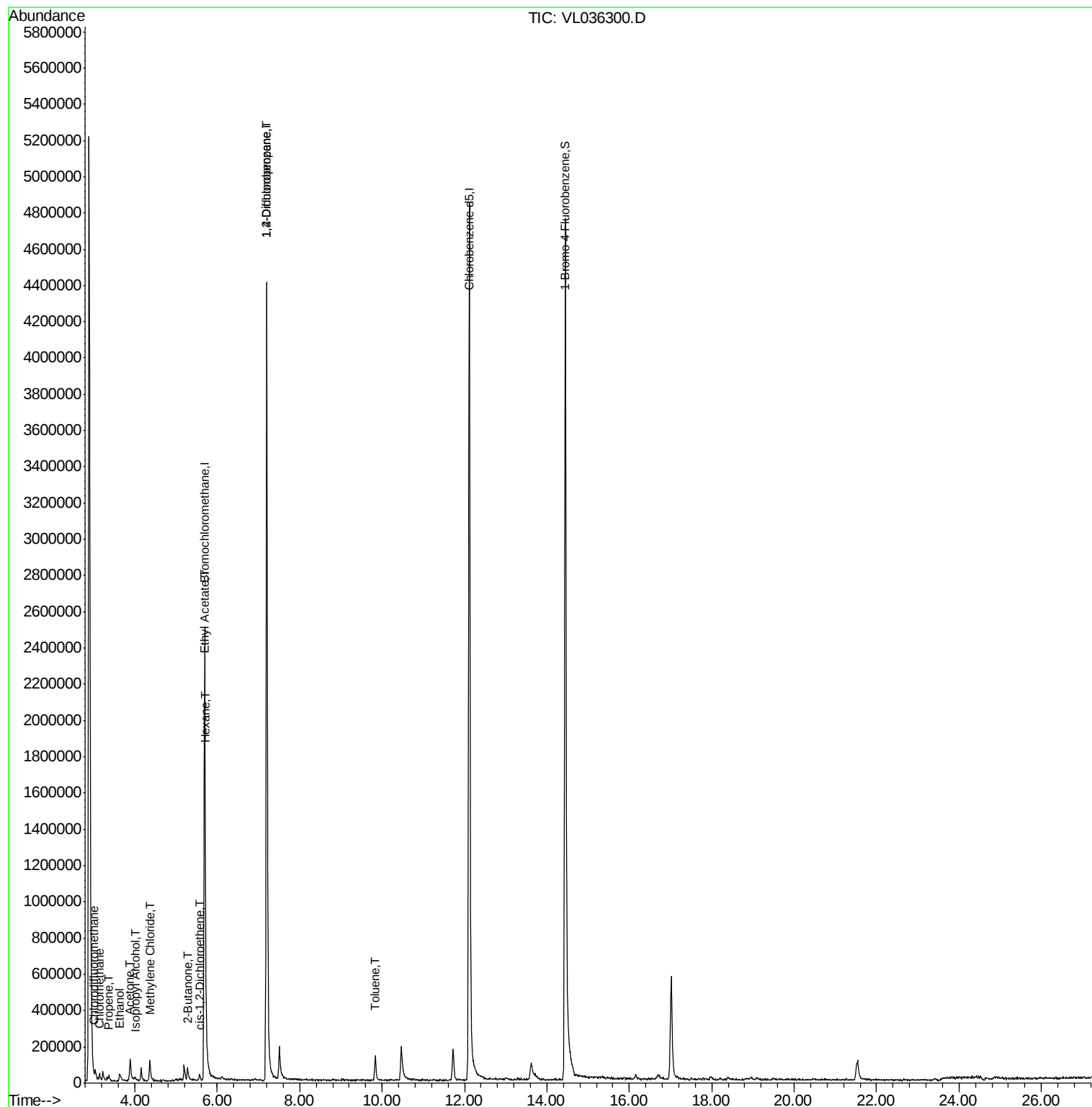
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.00	51	13159	0.066 ppbv	97
4) Chloromethane	3.15	50	3932	0.040 ppbv #	61
9) Propene	3.38	41	4704	0.050 ppbv	86
13) Ethanol	3.63	45	20808	1.400 ppbv #	36
15) Acetone	3.87	43	57639	0.291 ppbv #	1
19) Isopropyl Alcohol	4.00	45	4744	0.040 ppbv #	93
20) Methylene Chloride	4.37	84	15718	0.248 ppbv	86
25) Ethyl Acetate	5.71	43	15371	0.039 ppbv #	75
26) Hexane	5.71	57	16169	0.098 ppbv #	60
31) cis-1,2-Dichloroethene	5.56	61	8380	0.053 ppbv	94
34) 2-Butanone	5.28	43	84180	0.337 ppbv #	90
39) 1,2-Dichloropropane	7.20	63	1009729	8.012 ppbv #	22
53) Toluene	9.83	91	11958	0.034 ppbv #	1

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

Instrument :
MSVOA_L
ClientSampled :

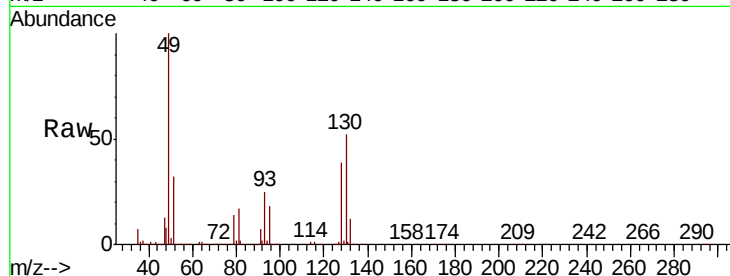
Tot Ion: 49 Resp: 1618915

Ion Ratio Lower Upper

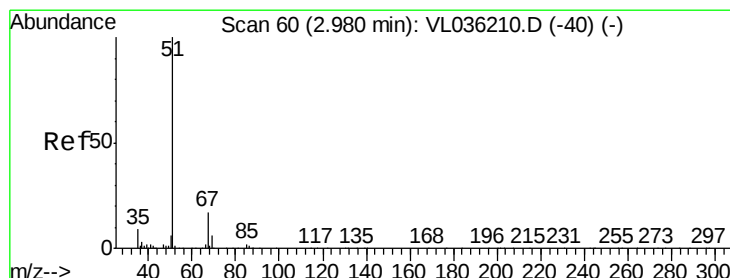
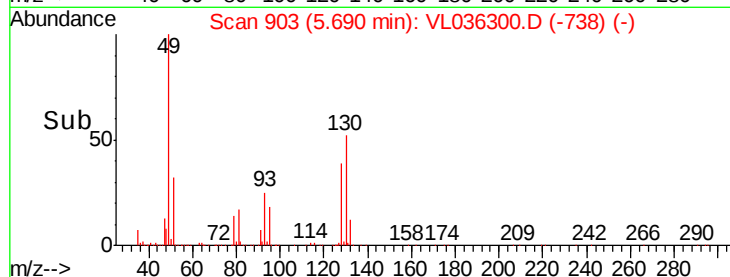
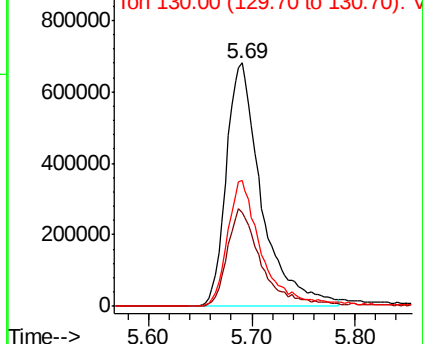
49 100

128 39.9 20.1 60.2

130 51.5 25.3 75.9



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



#3

Chlorodifluoromethane

Concen: 0.066 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036300.D

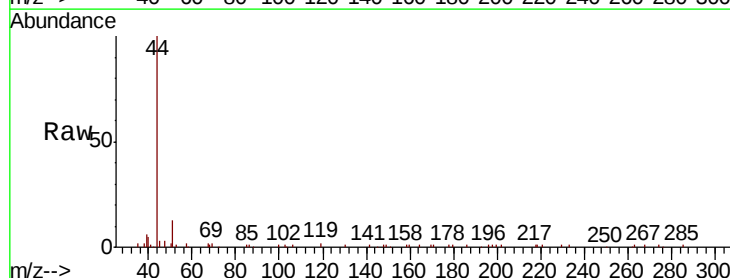
Acq: 3 Feb 2021 19:14

Tgt Ion: 51 Resp: 13159

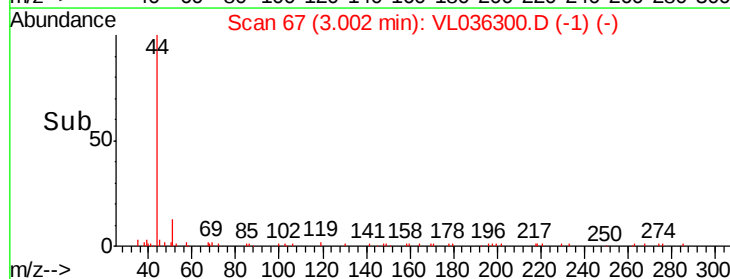
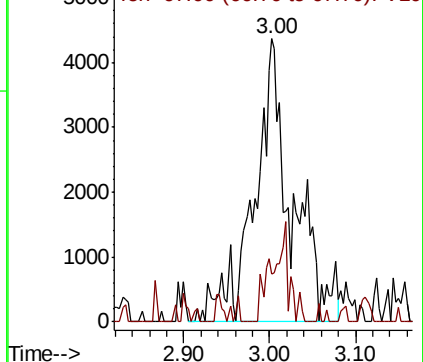
Ion Ratio Lower Upper

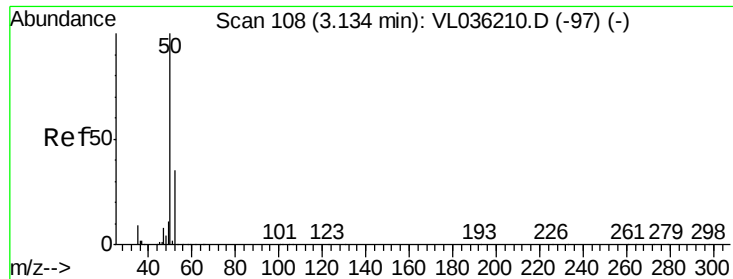
51 100

67 16.0 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.02 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

Instrument :

MSVOA_L

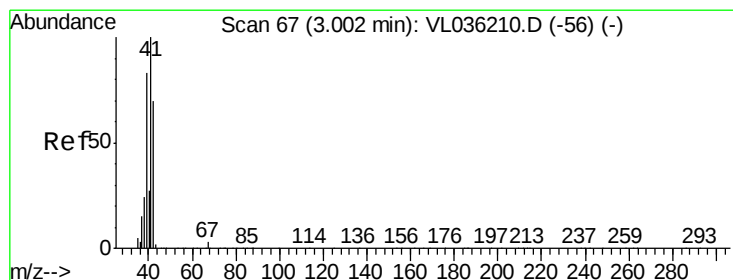
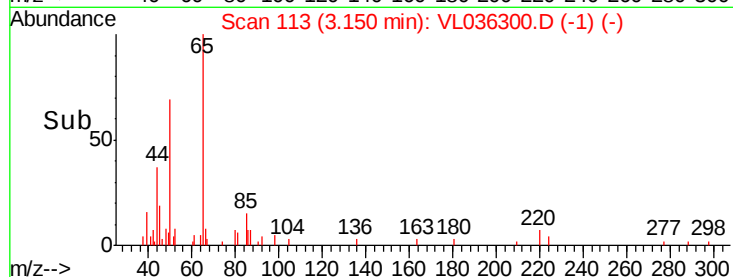
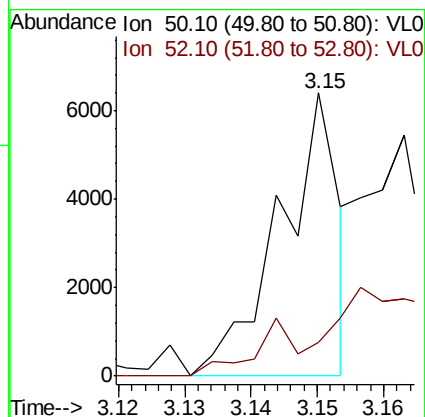
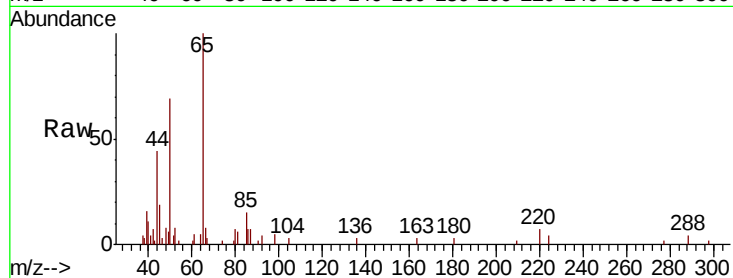
ClientSampleId :

Tot Ion: 50 Resp: 3932

Ion Ratio Lower Upper

50 100

52 12.1 27.8 41.8#



#9

Propene

Concen: 0.050 ppbv

RT: 3.38 min Scan# 184

Delta R.T. 0.38 min

Lab File: VL036300.D

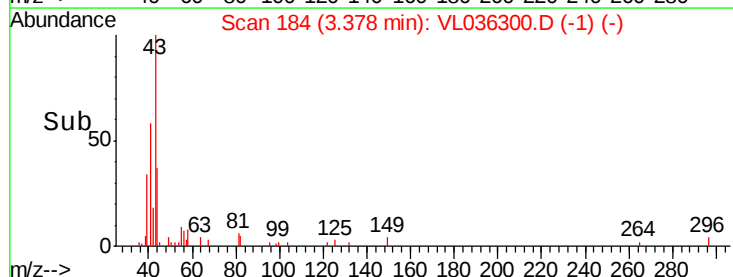
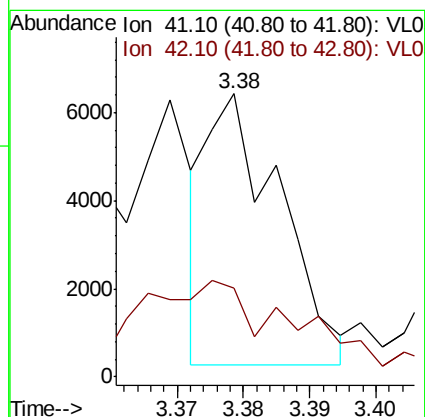
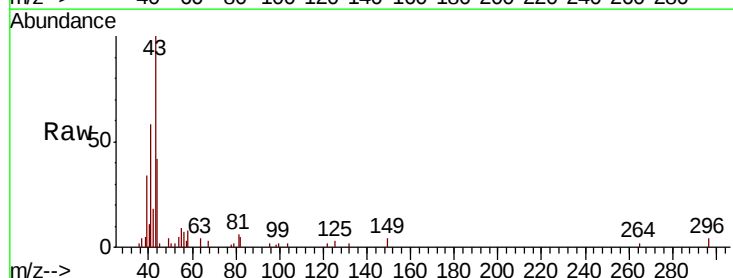
Acq: 3 Feb 2021 19:14

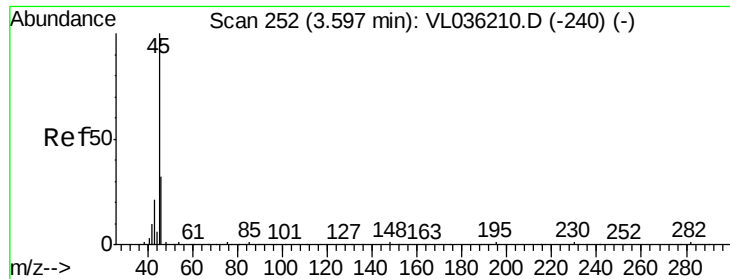
Tgt Ion: 41 Resp: 4704

Ion Ratio Lower Upper

41 100

42 82.7 57.1 85.7

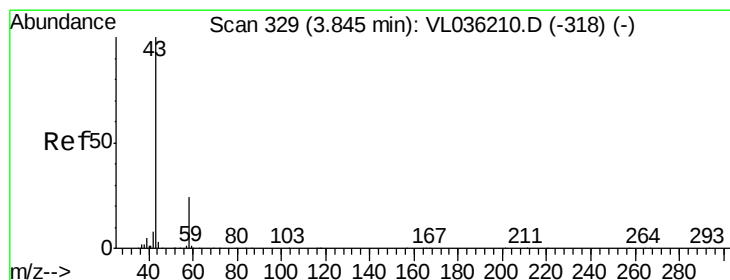
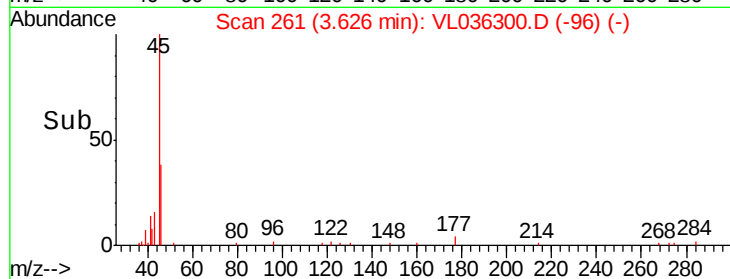
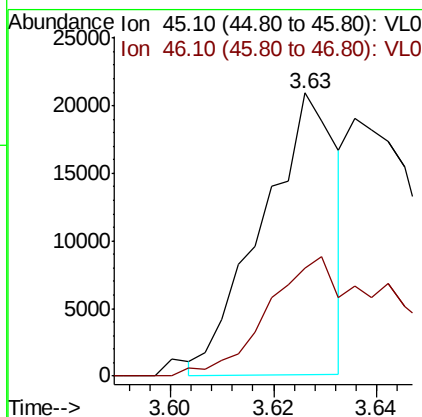
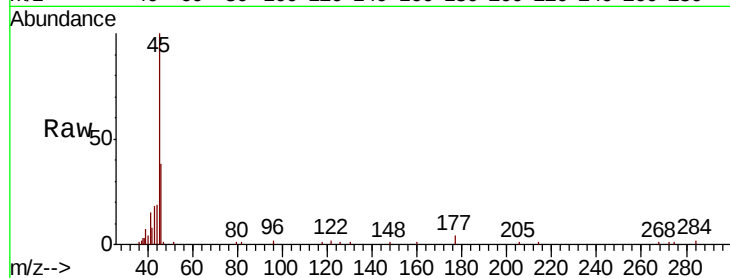




#13
Ethanol
Concen: 1.400 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.03 min
Lab File: VL036300.D
Acq: 3 Feb 2021 19:14

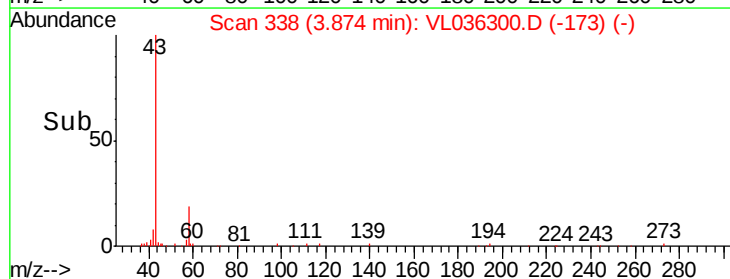
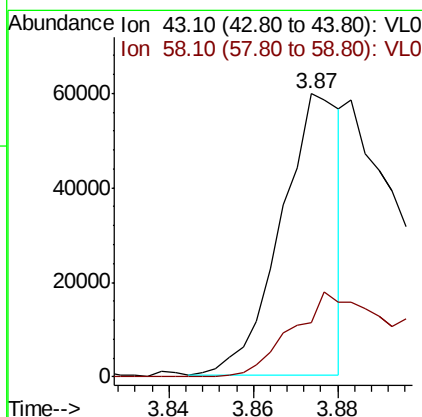
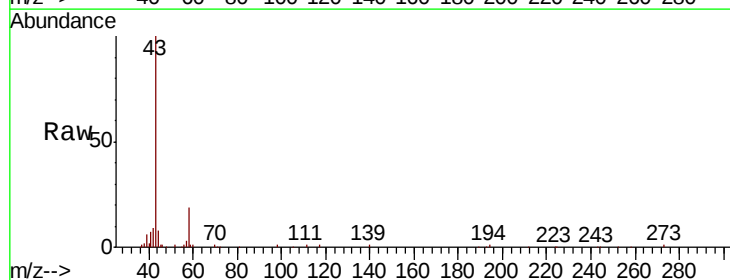
Instrument :
MSVOA_L
ClientSampleId :

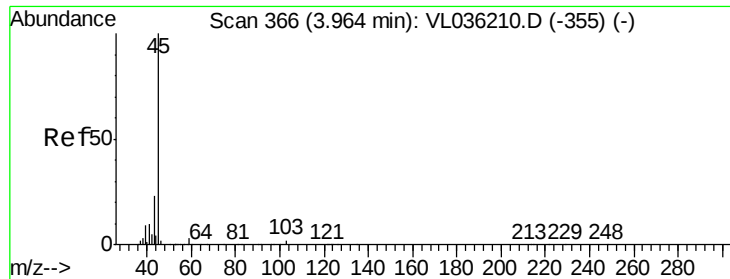
Tot Ion: 45 Resp: 20808
Ion Ratio Lower Upper
45 100
46 91.3 19.2 77.0#



#15
Acetone
Concen: 0.291 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.03 min
Lab File: VL036300.D
Acq: 3 Feb 2021 19:14

Tgt Ion: 43 Resp: 57639
Ion Ratio Lower Upper
43 100
58 81.2 20.9 31.3#





#19

Isopropyl Alcohol

Concen: 0.040 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.03 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

Instrument :

MSVOA_L

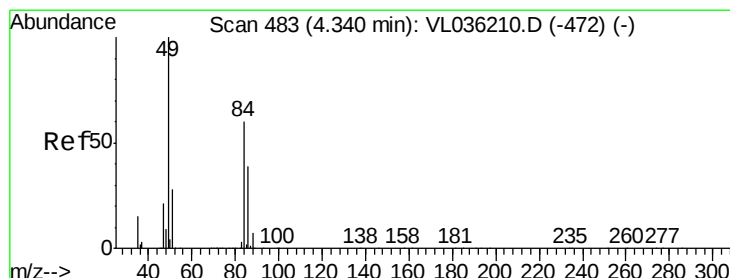
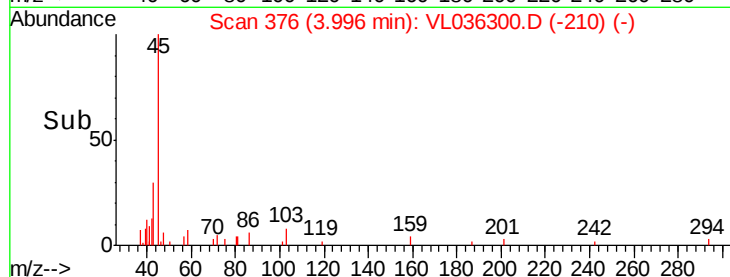
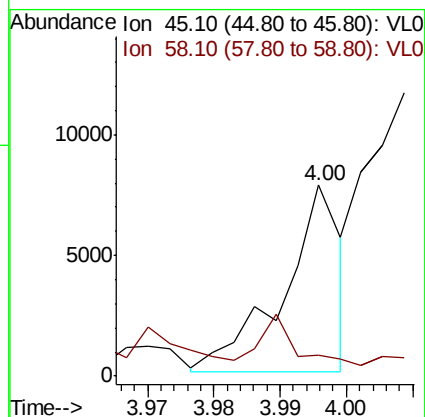
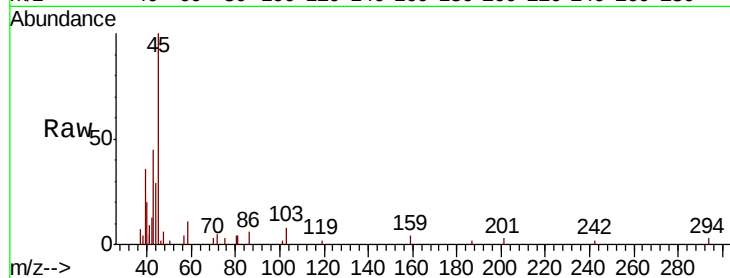
ClientSampled :

Tot Ion: 45 Resp: 4744

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 0.248 ppbv

RT: 4.37 min Scan# 493

Delta R.T. 0.03 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

Tgt Ion: 84 Resp: 15718

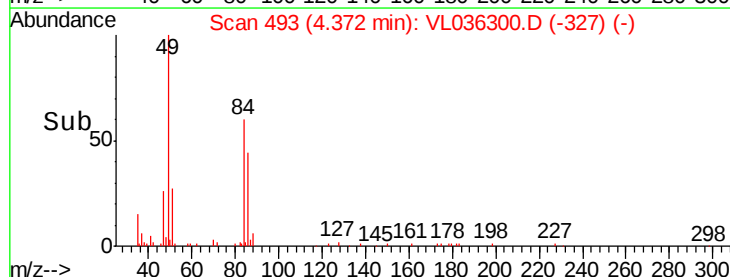
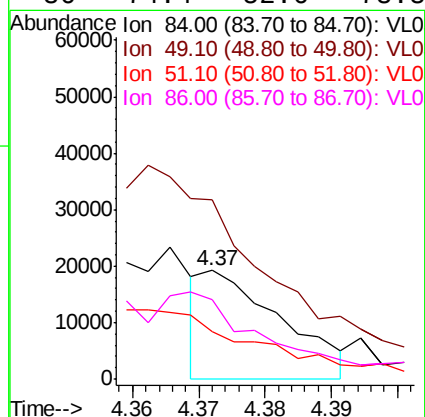
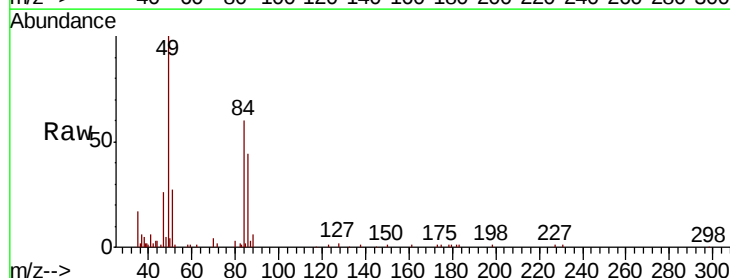
Ion Ratio Lower Upper

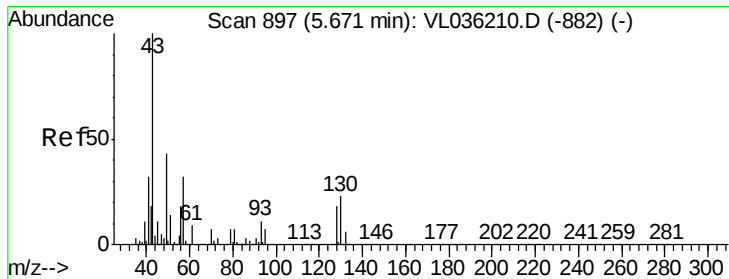
84 100

49 145.2 134.1 201.1

51 41.6 37.4 56.0

86 74.4 52.6 78.8

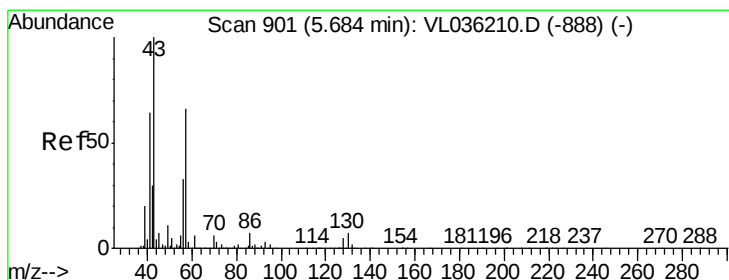
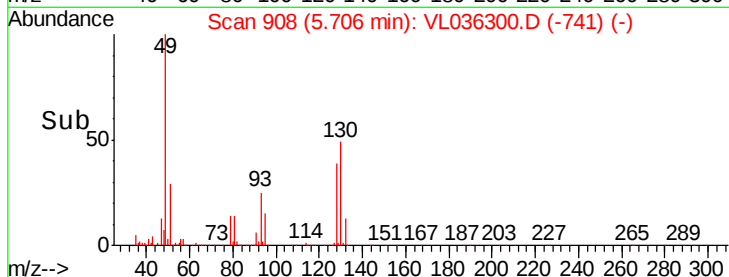
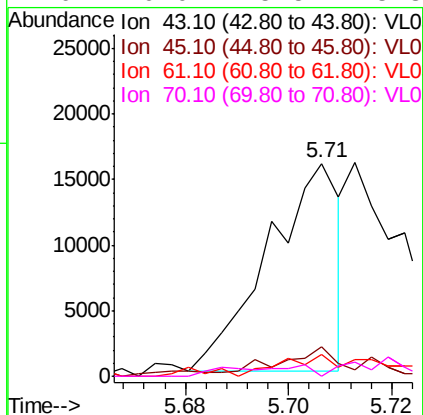
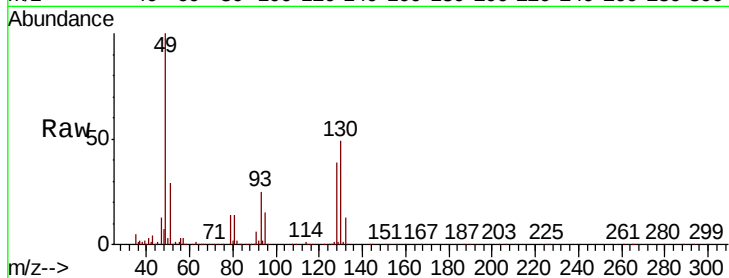




#25
Ethyl Acetate
Concen: 0.039 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.04 min
Lab File: VL036300.D
Acq: 3 Feb 2021 19:14

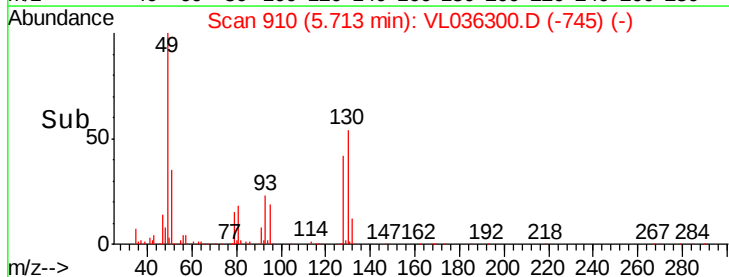
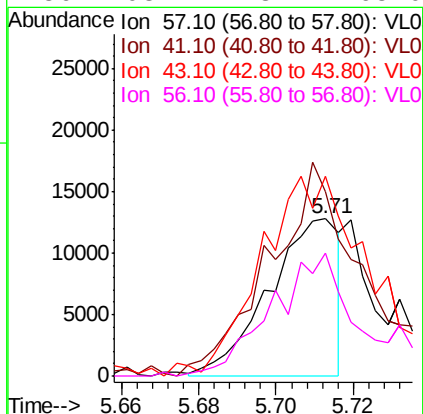
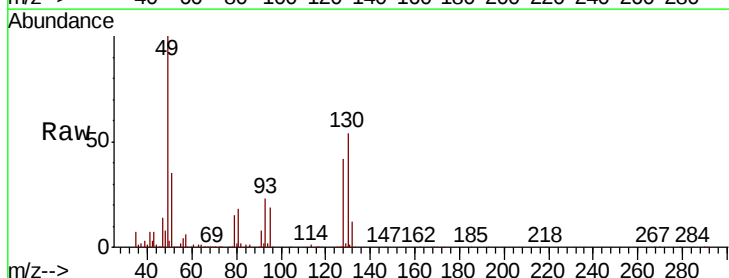
Instrument :
MSVOA_L
ClientSampled :

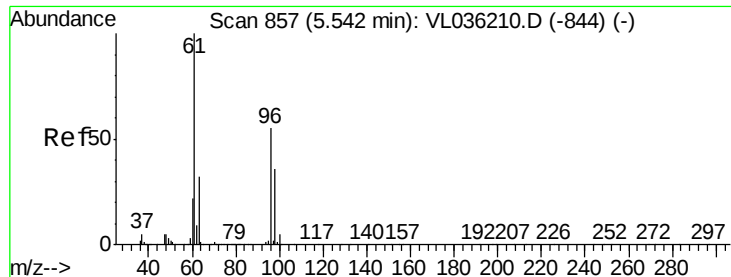
Tot Ion:	43	Resp:	15371
Ion	Ratio	Lower	Upper
43	100		
45	20.8	8.3	12.5#
61	19.0	7.4	11.2#
70	0.0	5.5	8.3#



#26
Hexane
Concen: 0.098 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.03 min
Lab File: VL036300.D
Acq: 3 Feb 2021 19:14

Tgt Ion:	57	Resp:	16169
Ion	Ratio	Lower	Upper
57	100		
41	203.9	83.0	124.6#
43	238.3	202.4	303.6
56	108.1	43.4	65.0#

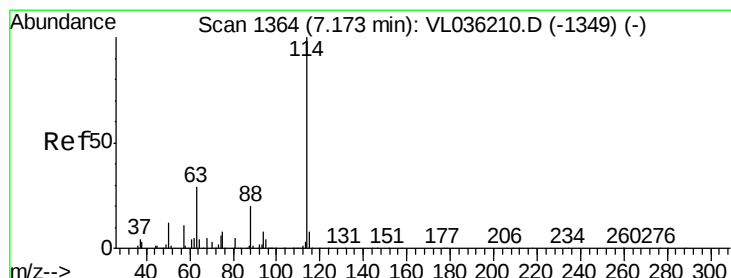
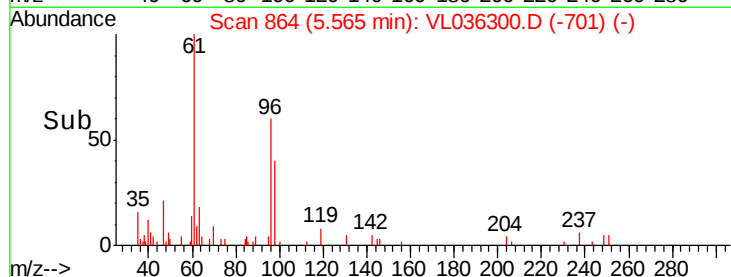
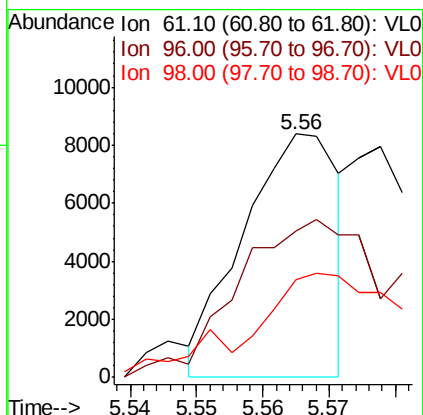
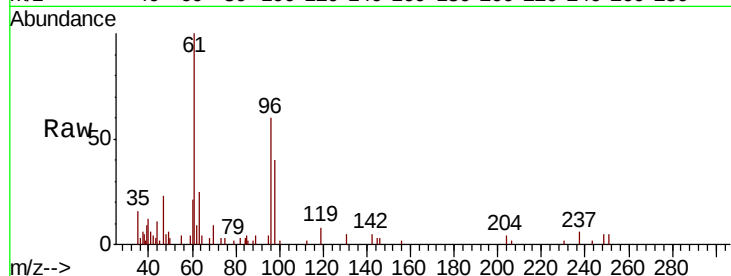




#31
 cis-1,2-Dichloroethene
 Concen: 0.053 ppbv
 RT: 5.56 min Scan# 864
 Delta R.T. 0.02 min
 Lab File: VL036300.D
 Acq: 3 Feb 2021 19:14

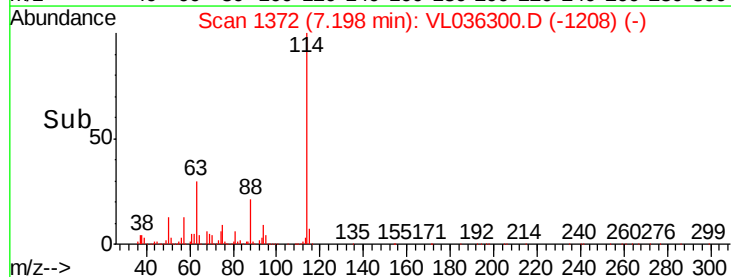
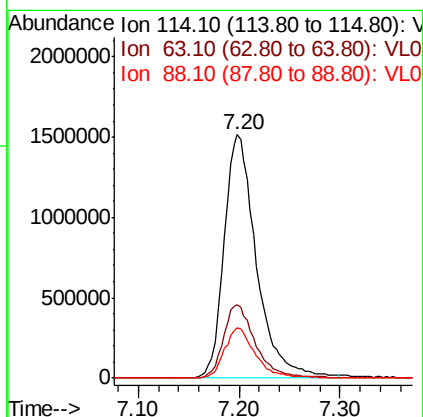
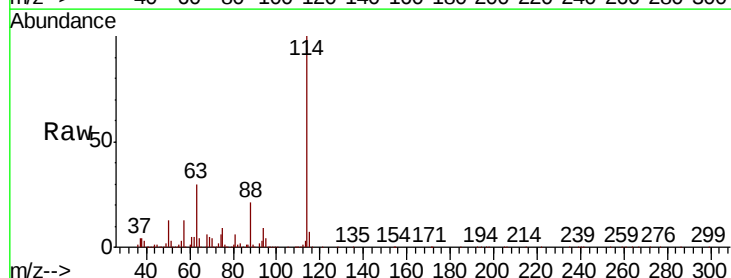
Instrument :
 MSVOA_L
 ClientSampleId :

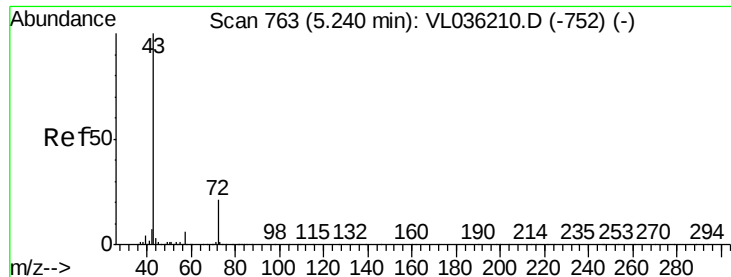
Tot Ion: 61 Resp: 8380
 Ion Ratio Lower Upper
 61 100
 96 62.3 44.1 66.1
 98 36.3 28.6 42.8



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.03 min
 Lab File: VL036300.D
 Acq: 3 Feb 2021 19:14

Tgt Ion: 114 Resp: 3387552
 Ion Ratio Lower Upper
 114 100
 63 30.4 24.7 37.1
 88 20.2 16.6 24.8





#34

2-Butanone

Concen: 0.337 ppbv

RT: 5.28 min Scan# 775

Delta R.T. 0.04 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

Instrument :

MSVOA_L

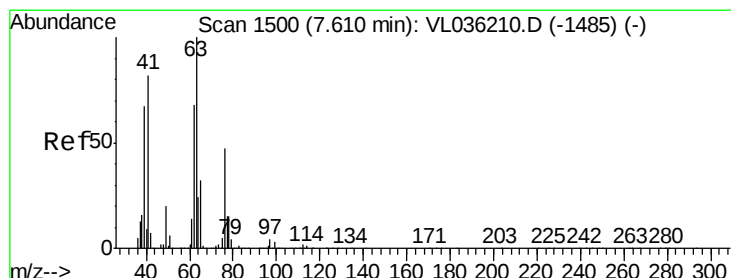
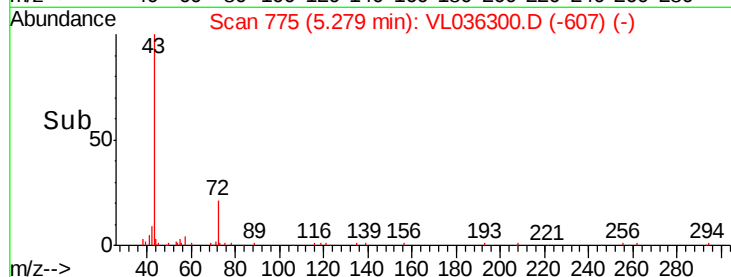
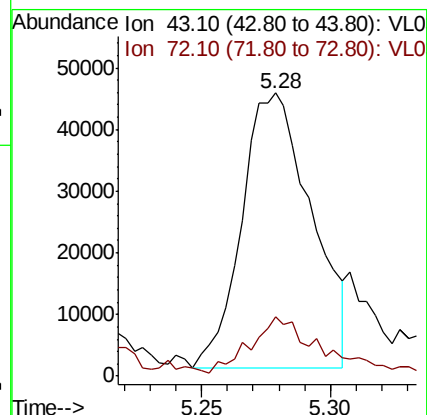
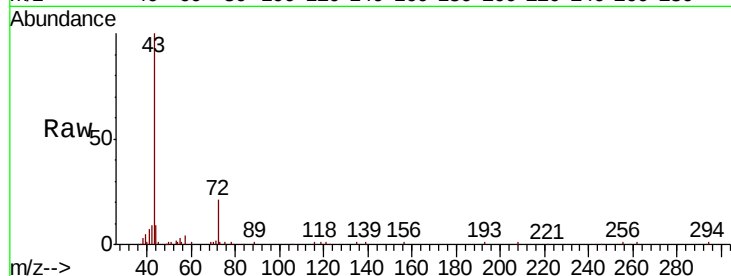
ClientSampleId :

Tot Ion: 43 Resp: 84180

Ion Ratio Lower Upper

43 100

72 24.8 16.1 24.1#



#39

1,2-Dichloropropane

Concen: 8.012 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.41 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

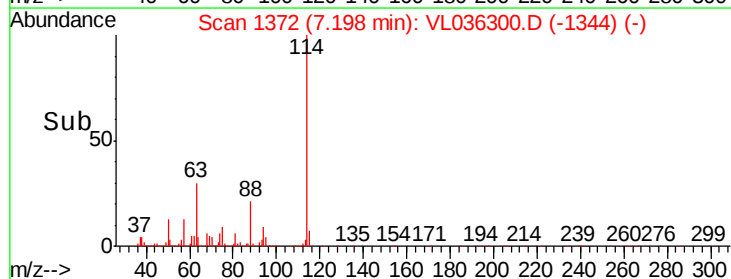
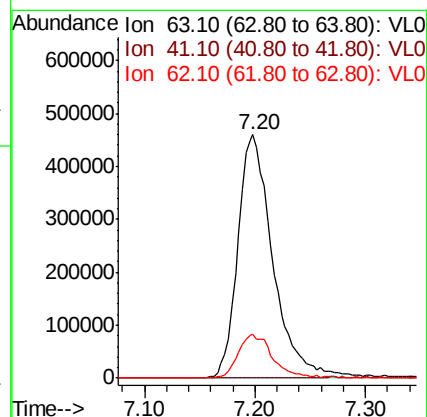
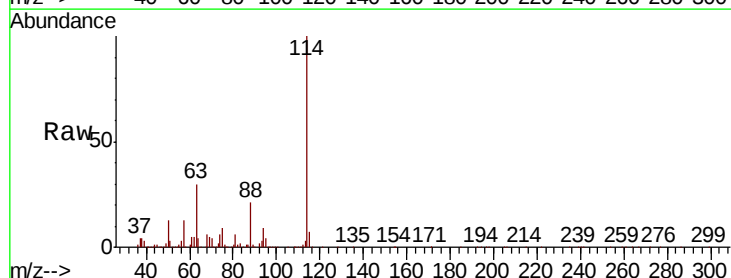
Tgt Ion: 63 Resp: 1009729

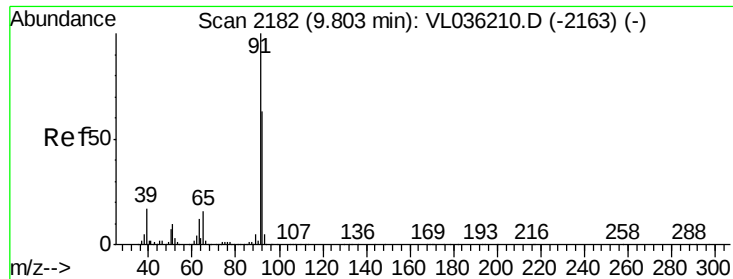
Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

62 18.1 54.8 82.2#





#53

Toluene

Concen: 0.034 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.03 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

Instrument :

MSVOA_L

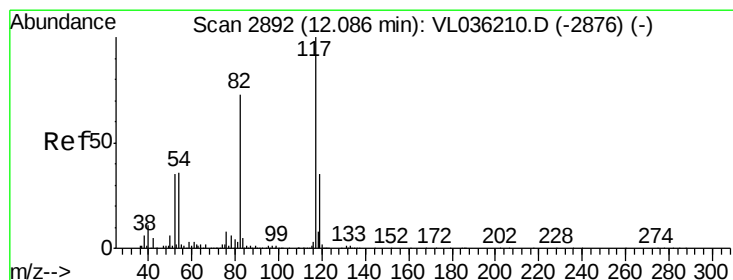
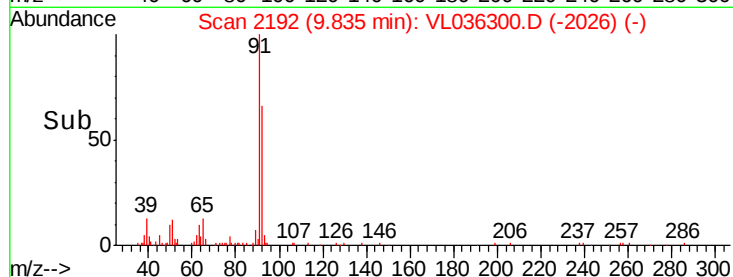
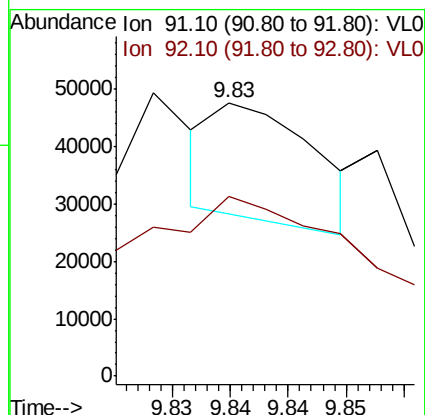
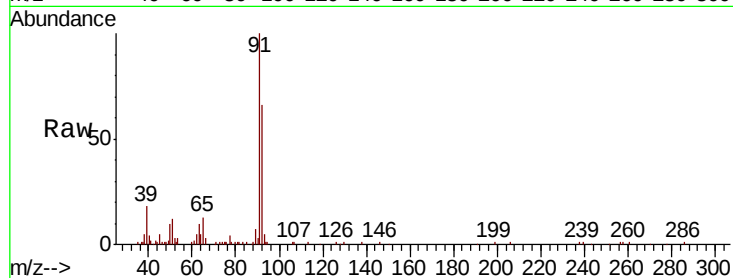
ClientSampleId :

Tot Ion: 91 Resp: 11958

Ion Ratio Lower Upper

91 100

92 556.2 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.03 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

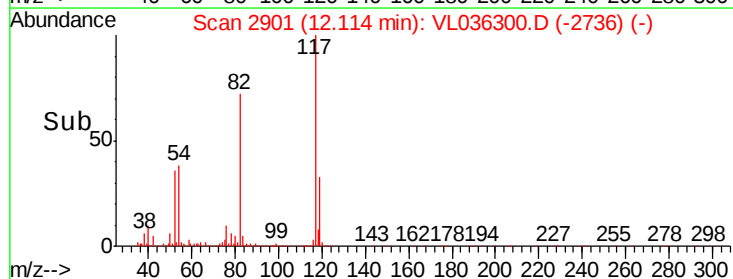
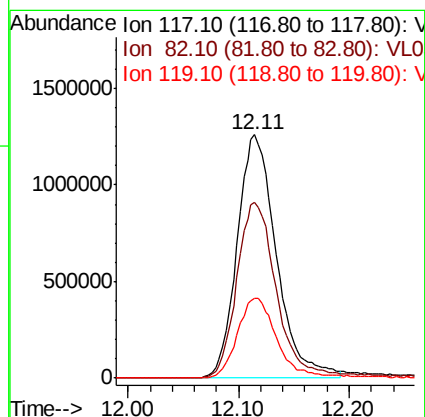
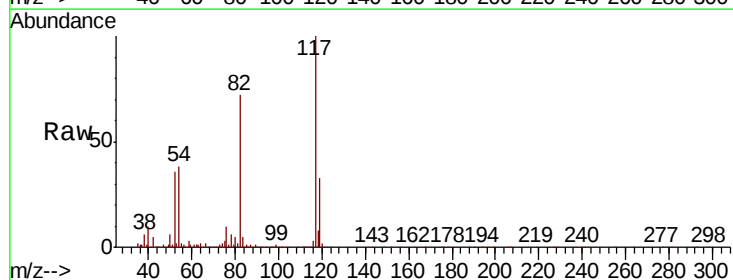
Tgt Ion: 117 Resp: 3106453

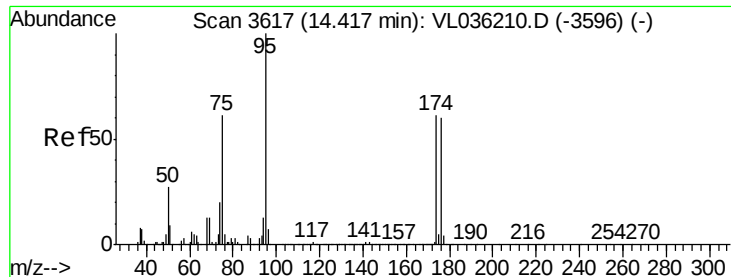
Ion Ratio Lower Upper

117 100

82 75.7 59.7 89.5

119 34.3 28.6 43.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.065 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.03 min

Lab File: VL036300.D

Acq: 3 Feb 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

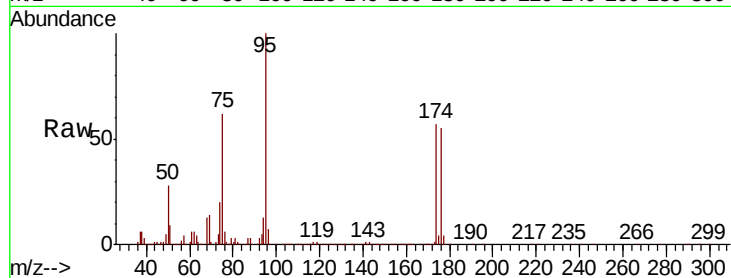
Tot Ion: 95 Resp: 2588076

Ion Ratio Lower Upper

95 100

174 63.0 49.4 74.0

175 4.6 3.8 5.8



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

