

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020620\
 Data File : VL034607.D
 Acq On : 6 Feb 2020 20:14
 Operator : SY/AP
 Sample : L1435-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Quant Time: Feb 07 08:18:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	852287	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	1769806	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	1701815	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1495572	10.40	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

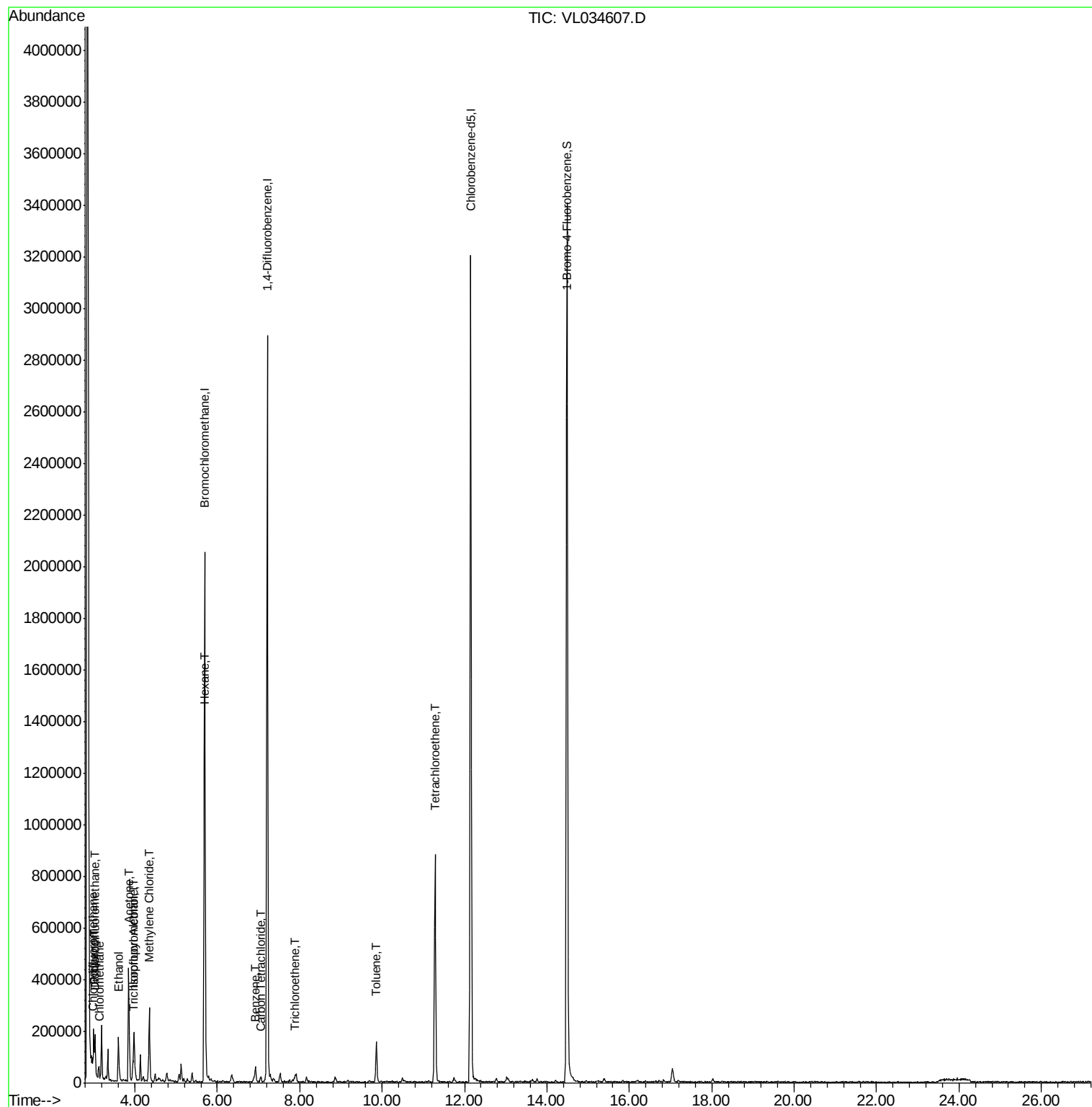
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	102838m	0.548	ppbv	
3) Chlorodifluoromethane	2.97	51	29861m	0.290	ppbv	
4) Chloromethane	3.12	50	27920	0.443	ppbv #	87
9) Propene	3.00	41	28398m	0.708	ppbv	
11) Trichlorofluoromethane	3.95	101	42242m	0.248	ppbv	
13) Ethanol	3.60	45	135999	12.662	ppbv	96
15) Acetone	3.85	43	434515	3.469	ppbv	97
19) Isopropyl Alcohol	3.98	45	196100	2.683	ppbv #	93
20) Methylene Chloride	4.35	84	86812	1.820	ppbv	93
26) Hexane	5.71	57	54211	0.638	ppbv #	38
35) Carbon Tetrachloride	7.05	117	12122m	0.072	ppbv	
36) Benzene	6.92	78	32718	0.208	ppbv	96
38) Trichloroethene	7.88	130	3984m	0.060	ppbv	
52) Tetrachloroethene	11.28	164	183090	2.896	ppbv	98
53) Toluene	9.86	91	105219m	0.609	ppbv	

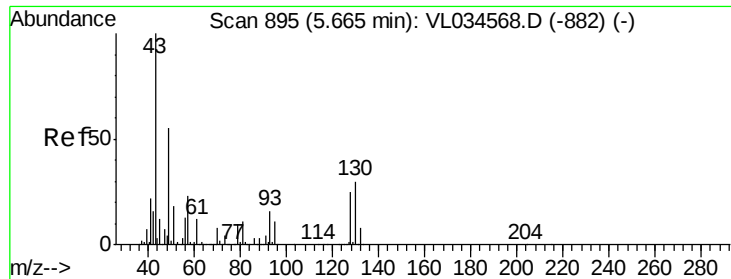
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020620\
Data File : VL034607.D
Acq On : 6 Feb 2020 20:14
Operator : SY/AP
Sample : L1435-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Quant Time: Feb 07 08:18:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

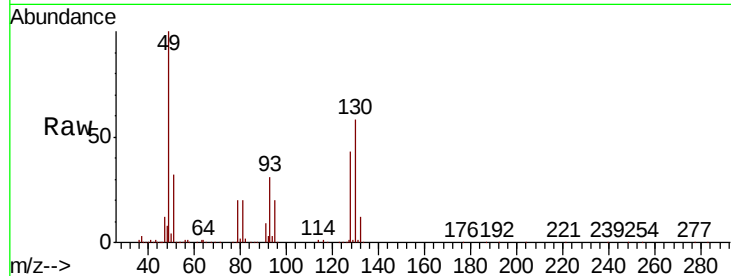
Tot Ion: 49 Resp: 852287

Ion Ratio Lower Upper

49 100

128 45.4 22.7 68.1

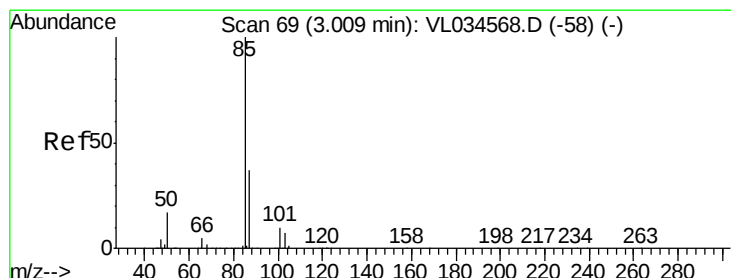
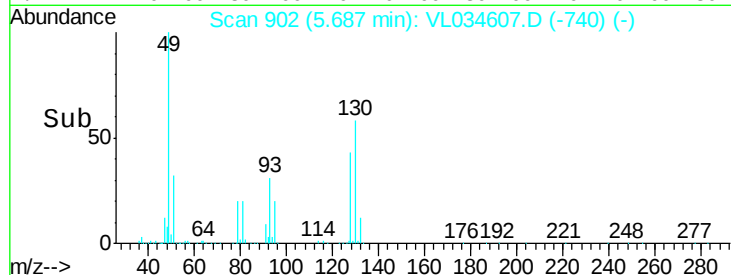
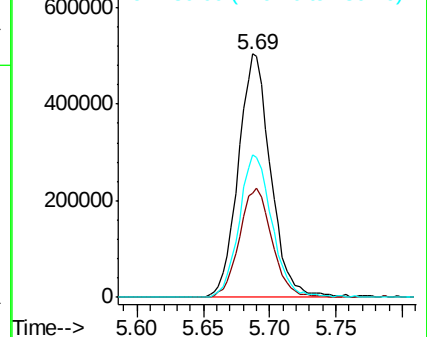
130 60.1 28.6 85.8



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



#2

Dichlorodifluoromethane

Concen: 0.548 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL034607.D

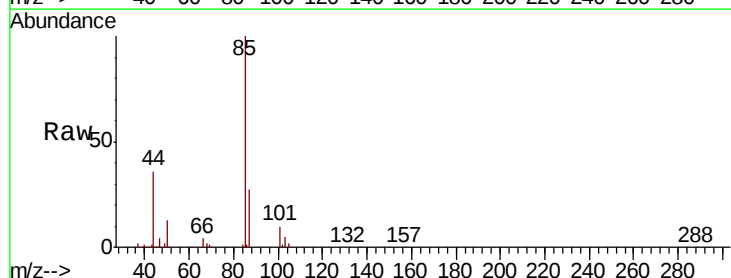
Acq: 6 Feb 2020 20:14

Tgt Ion: 85 Resp: 102838

Ion Ratio Lower Upper

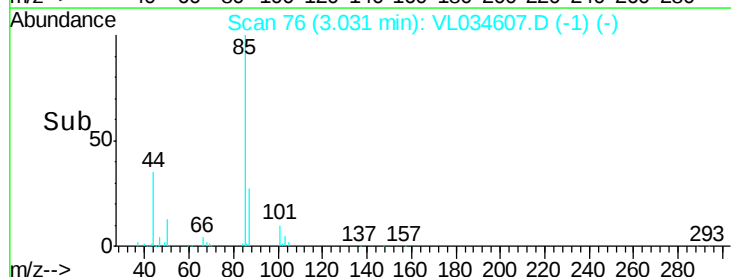
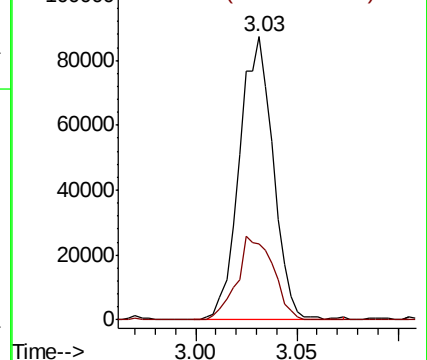
85 100

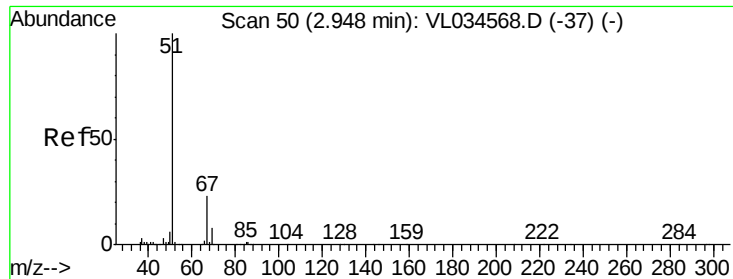
87 26.7 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.290 ppbv m

RT: 2.97 min Scan# 56

Delta R.T. 0.02 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

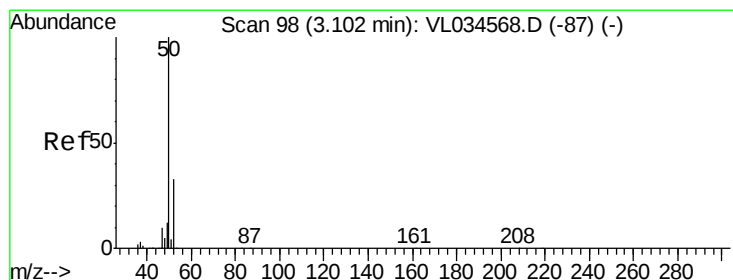
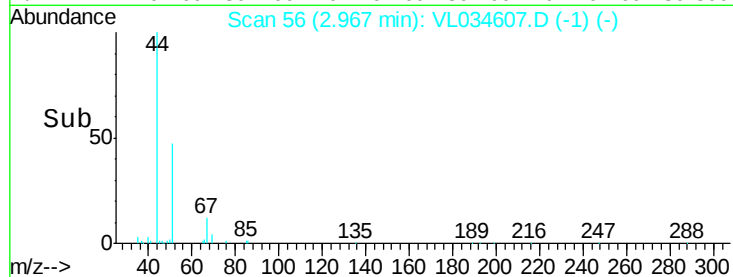
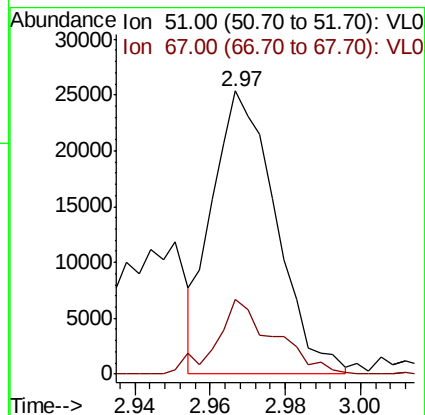
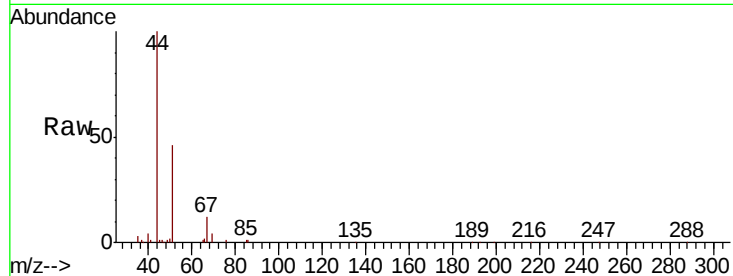
IA-3

Tot Ion: 51 Resp: 29861

Ion Ratio Lower Upper

51 100

67 23.9 17.8 26.8



#4

Chloromethane

Concen: 0.443 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.02 min

Lab File: VL034607.D

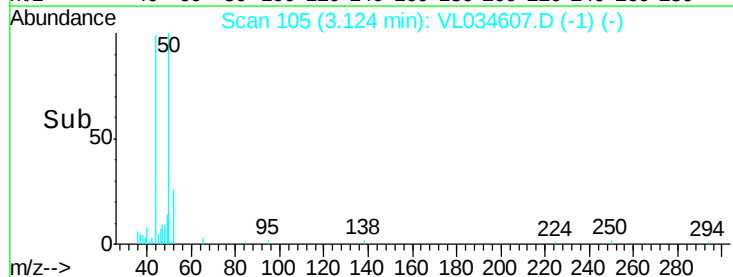
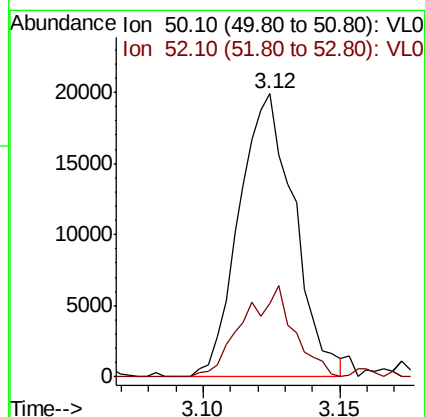
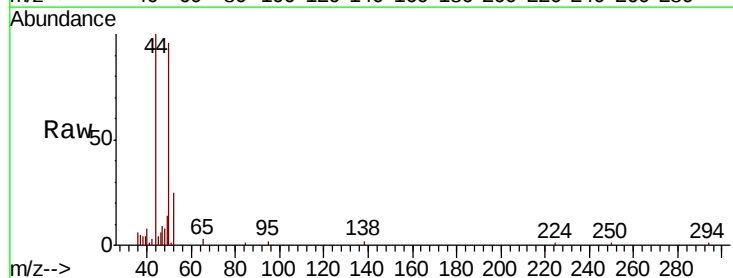
Acq: 6 Feb 2020 20:14

Tgt Ion: 50 Resp: 27920

Ion Ratio Lower Upper

50 100

52 25.8 26.6 39.8#





#9

Propene

Concen: 0.708 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

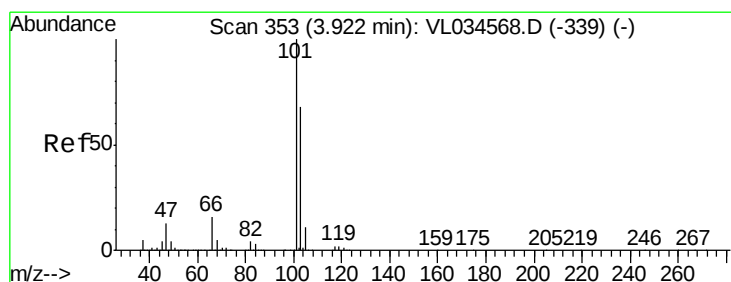
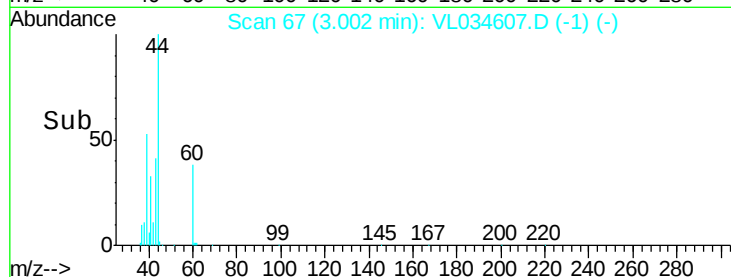
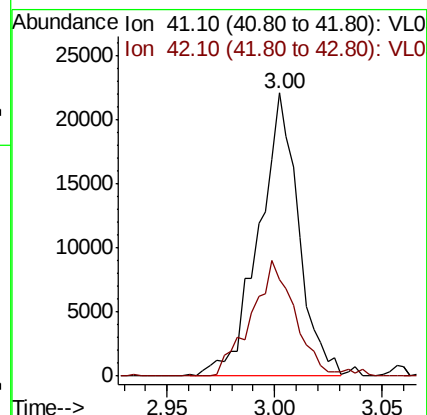
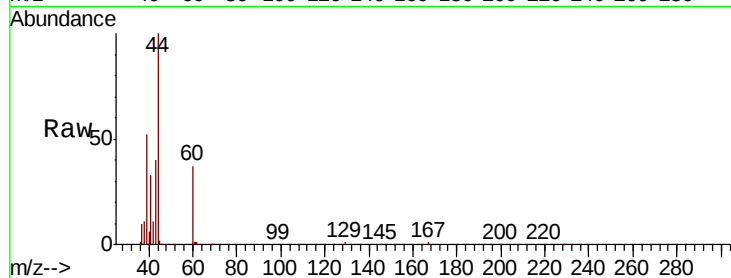
IA-3

Tot Ion: 41 Resp: 28398

Ion Ratio Lower Upper

41 100

42 116.8 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.248 ppbv m

RT: 3.95 min Scan# 362

Delta R.T. 0.03 min

Lab File: VL034607.D

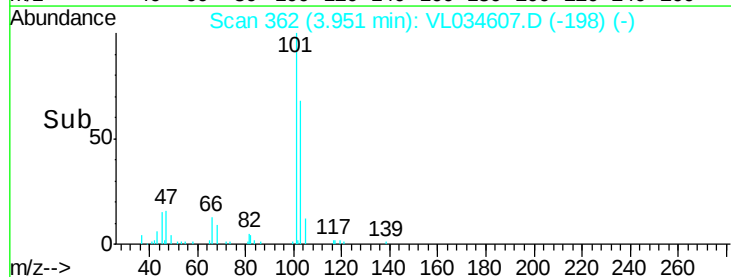
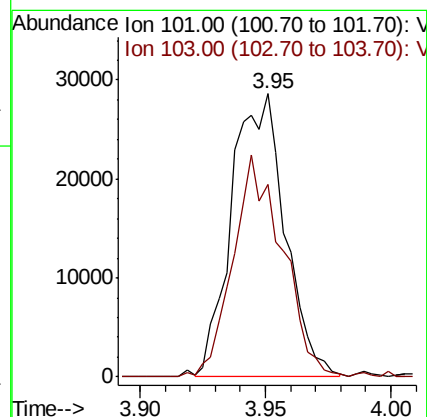
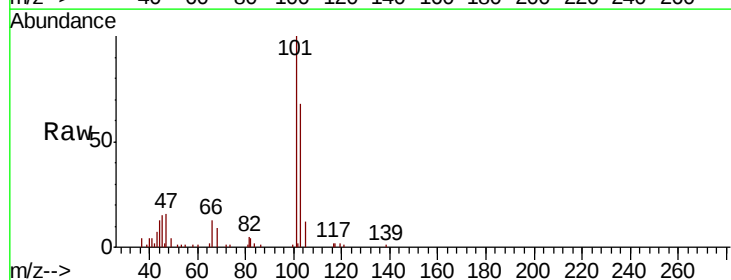
Acq: 6 Feb 2020 20:14

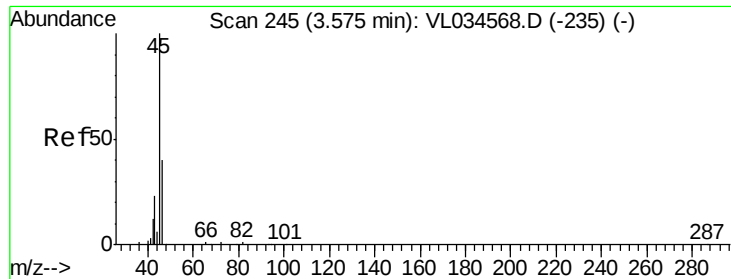
Tgt Ion: 101 Resp: 42242

Ion Ratio Lower Upper

101 100

103 68.1 54.4 81.6





#13

Ethanol

Concen: 12.662 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

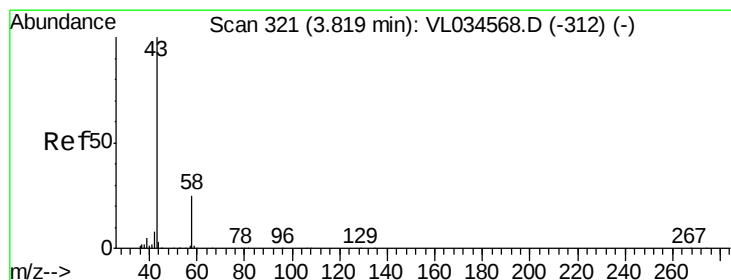
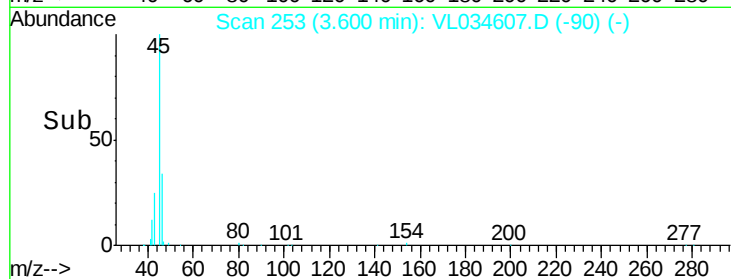
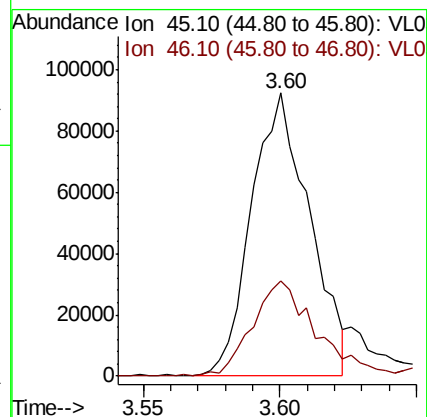
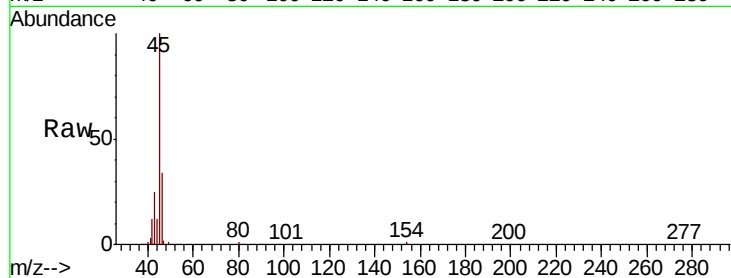
IA-3

Tot Ion: 45 Resp: 135999

Ion Ratio Lower Upper

45 100

46 39.4 14.8 59.2



#15

Acetone

Concen: 3.469 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.03 min

Lab File: VL034607.D

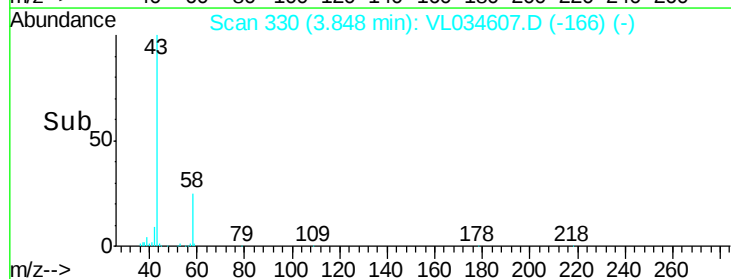
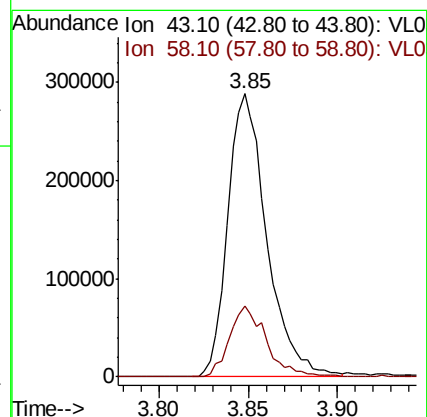
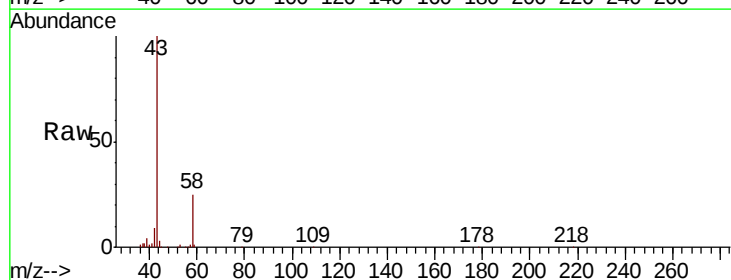
Acq: 6 Feb 2020 20:14

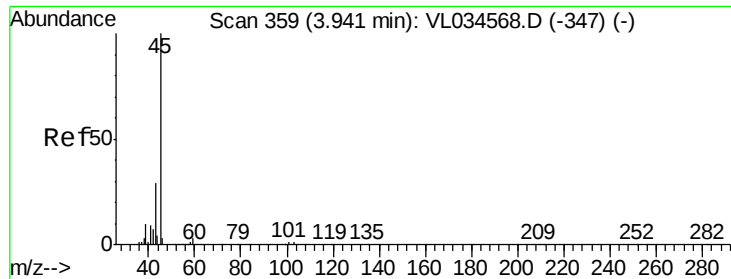
Tgt Ion: 43 Resp: 434515

Ion Ratio Lower Upper

43 100

58 24.1 20.3 30.5

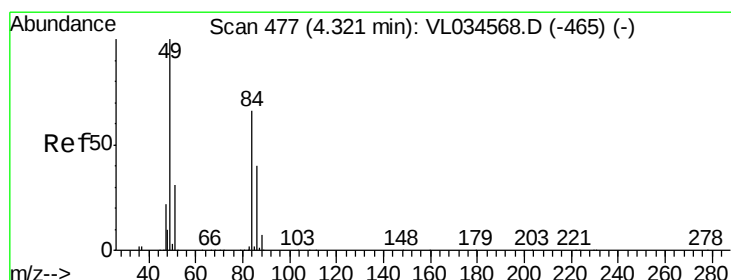
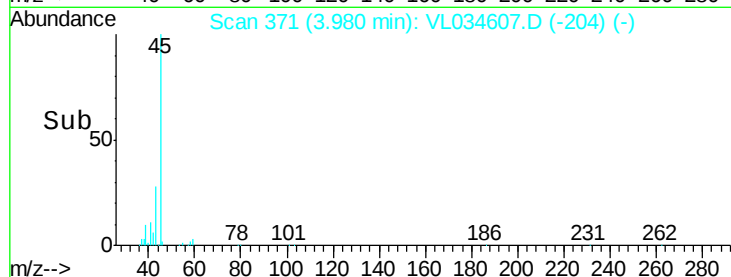
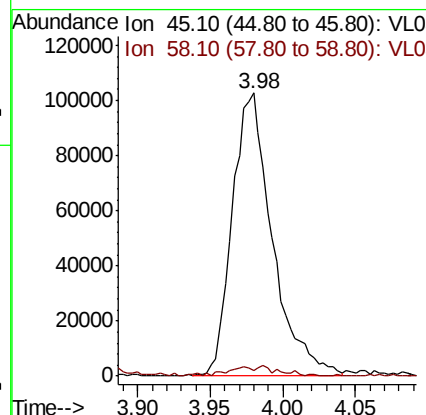
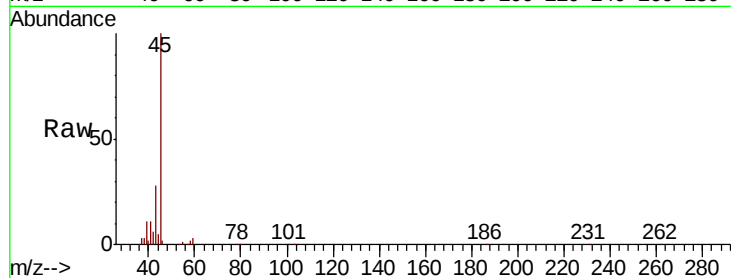




#19
Isopropyl Alcohol
Concen: 2.683 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.04 min
Lab File: VL034607.D
Acq: 6 Feb 2020 20:14

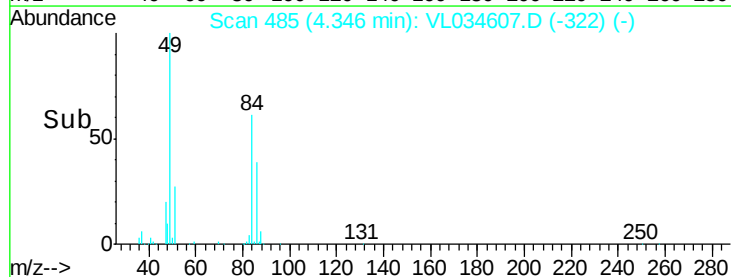
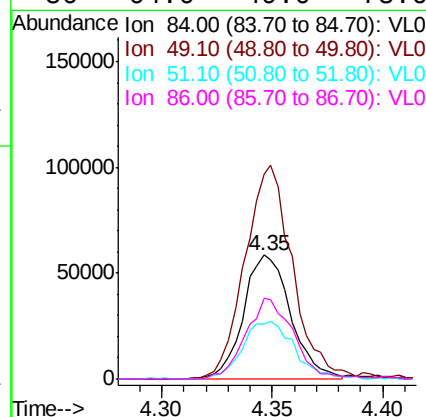
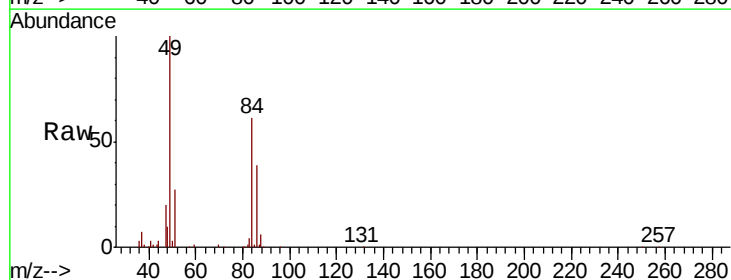
Instrument :
MSVOA_L
ClientSampleID :
IA-3

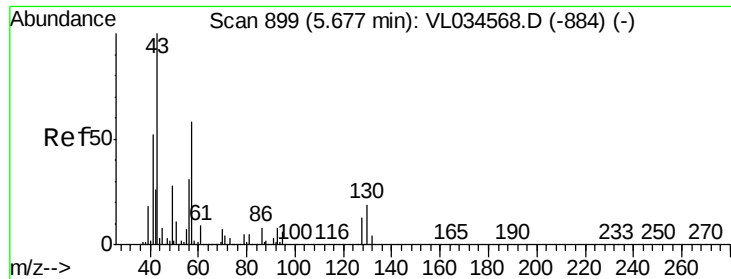
Tot Ion: 45 Resp: 196100
Ion Ratio Lower Upper
45 100
58 4.7 1.7 2.5#



#20
Methylene Chloride
Concen: 1.820 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.03 min
Lab File: VL034607.D
Acq: 6 Feb 2020 20:14

Tgt Ion: 84 Resp: 86812
Ion Ratio Lower Upper
84 100
49 164.1 122.4 183.6
51 43.6 38.6 57.8
86 64.6 49.0 73.6





#26

Hexane

Concen: 0.638 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

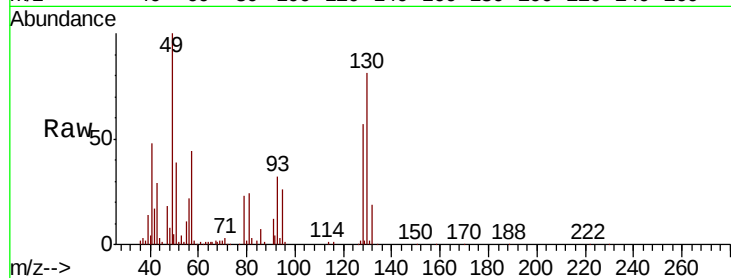
ClientSampleId :

IA-3

Tot Ion: 57 Resp: 54211

Ion Ratio Lower Upper

57	100		
41	108.3	76.2	114.2
43	80.7	189.9	284.9#
56	62.3	43.6	65.4

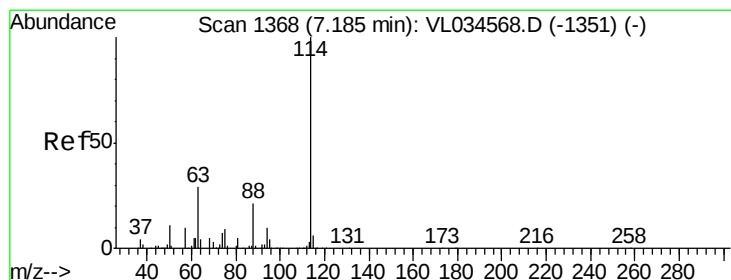
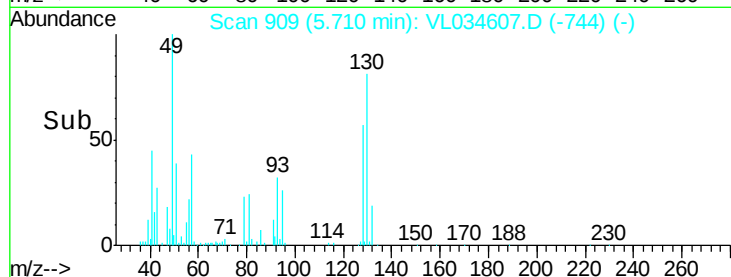
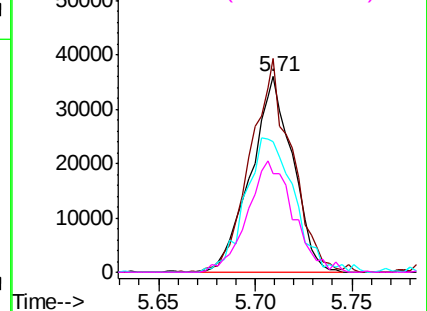


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. 0.03 min

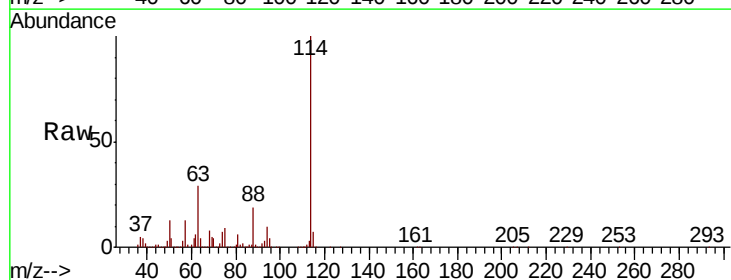
Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Tgt Ion: 114 Resp: 1769806

Ion Ratio Lower Upper

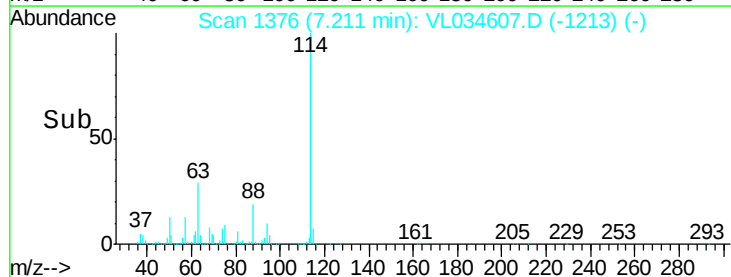
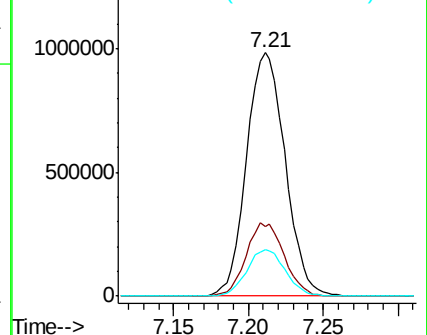
114	100		
63	29.8	24.1	36.1
88	18.9	15.9	23.9

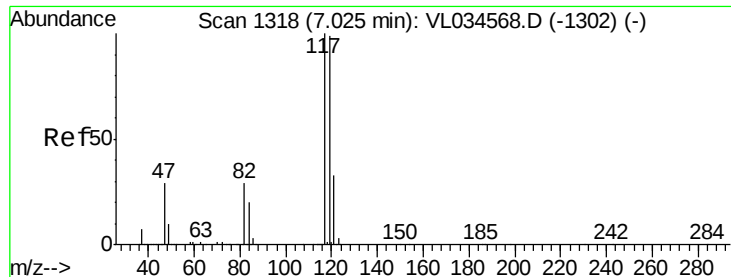


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 7.05 min Scan# 1327

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

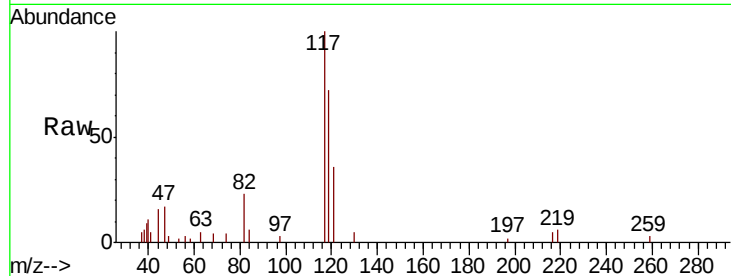
Tot Ion:117 Resp: 12122

Ion Ratio Lower Upper

117 100

119 71.9 79.5 119.3#

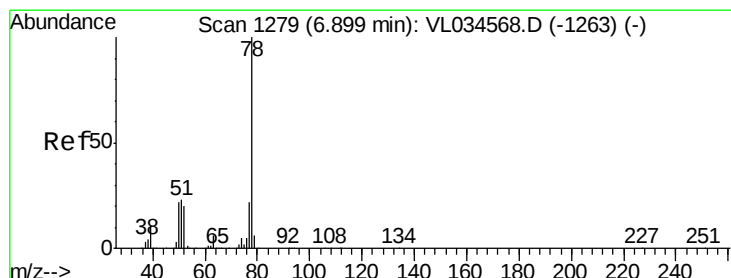
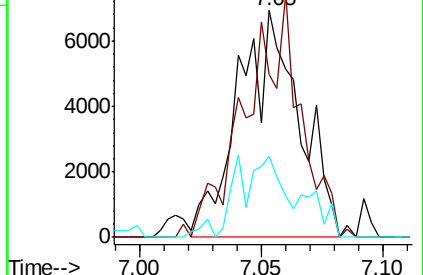
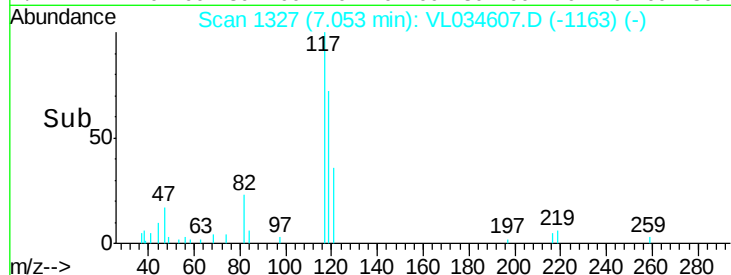
121 35.9 26.2 39.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.208 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. 0.02 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

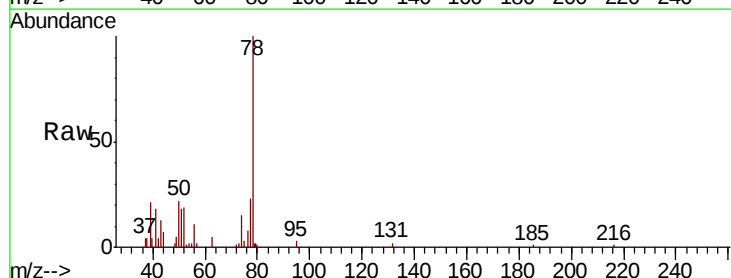
Tgt Ion: 78 Resp: 32718

Ion Ratio Lower Upper

78 100

77 18.0 17.3 25.9

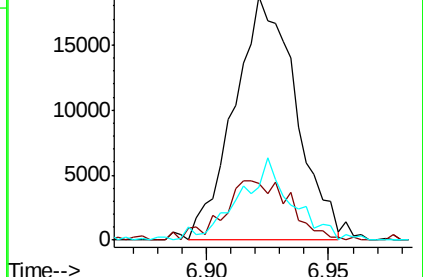
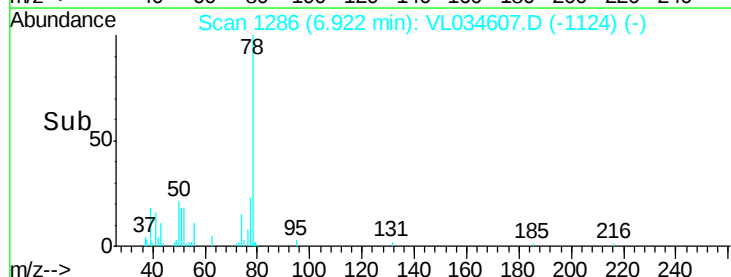
50 21.2 17.4 26.2

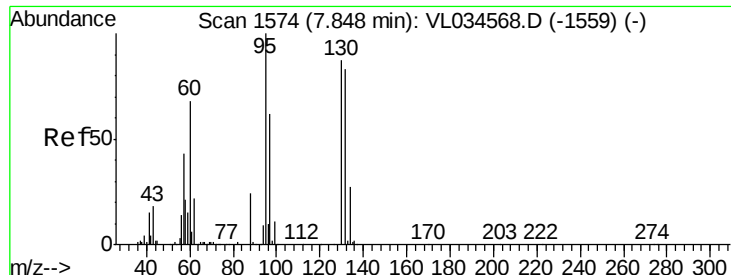


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.060 ppbv m

RT: 7.88 min Scan# 1585

Delta R.T. 0.04 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:130 Resp: 3984

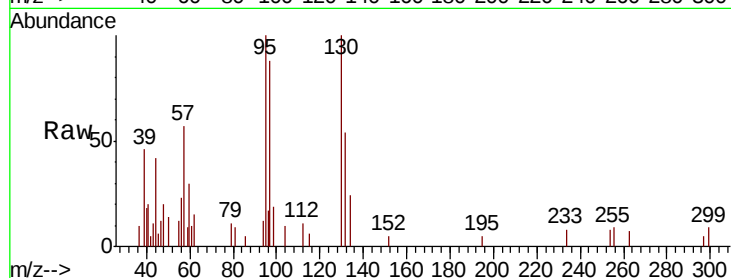
Ion Ratio Lower Upper

130 100

95 100.3 91.6 137.4

132 54.6 76.1 114.1#

97 88.2 56.6 84.8#

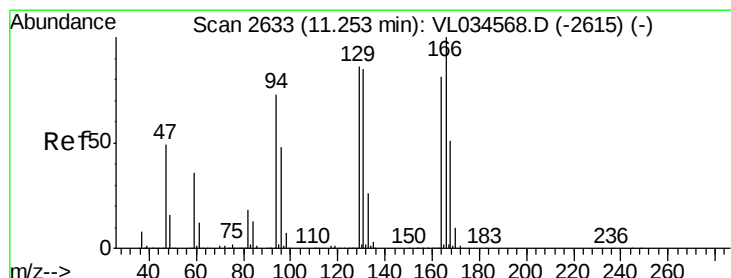
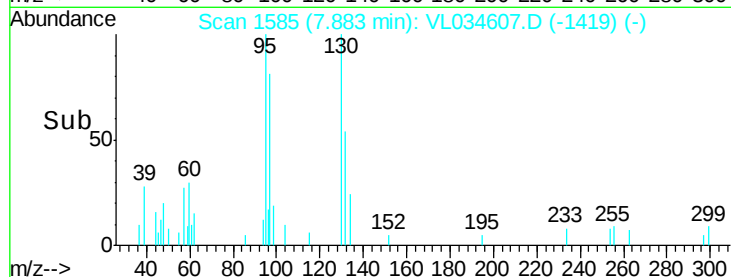
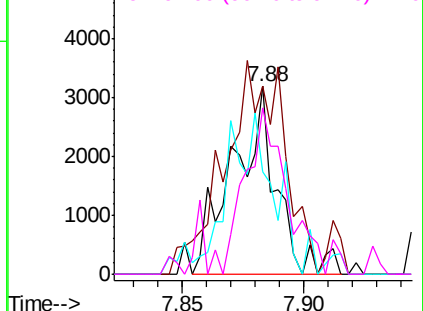


Abundance Ion 130.00 (129.70 to 130.70): V

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



#52

Tetrachloroethene

Concen: 2.896 ppbv

RT: 11.28 min Scan# 2643

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Tgt Ion:164 Resp: 183090

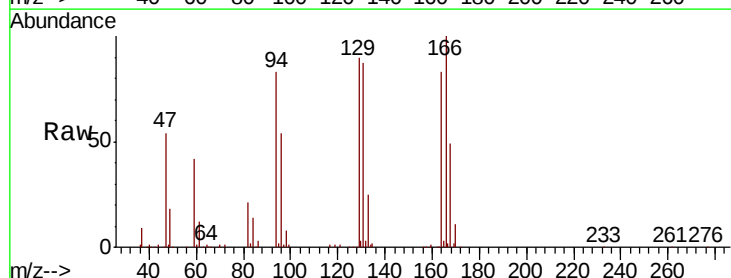
Ion Ratio Lower Upper

164 100

166 120.0 99.0 148.4

129 108.5 85.3 127.9

131 104.7 84.2 126.2

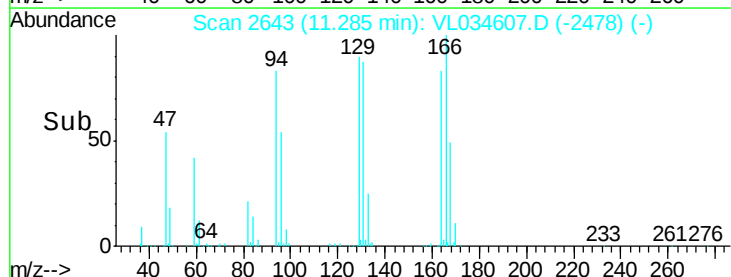
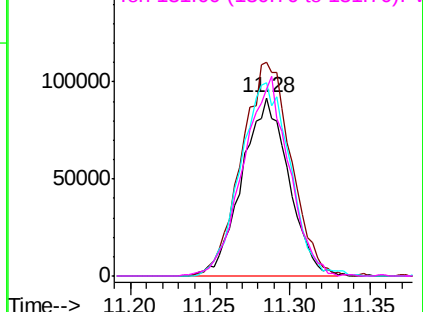


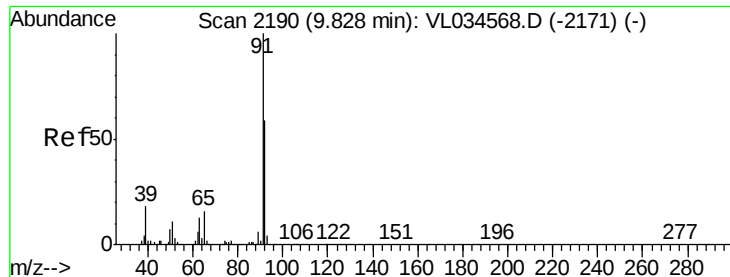
Abundance Ion 163.90 (163.60 to 164.60): V

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





#53

Toluene

Concen: 0.609 ppbv m

RT: 9.86 min Scan# 2201

Delta R.T. 0.04 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

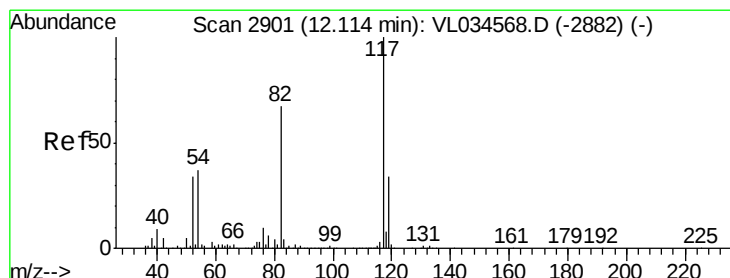
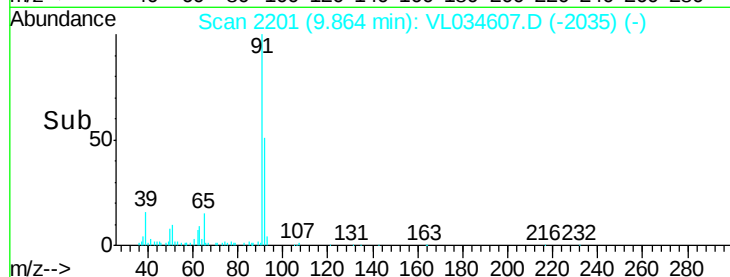
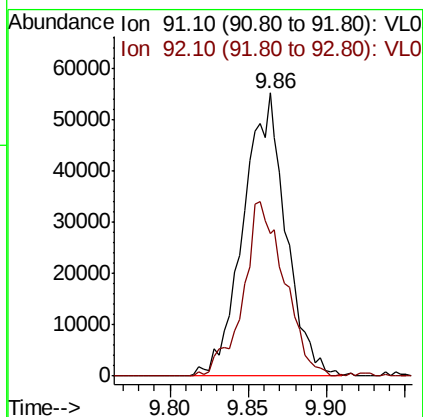
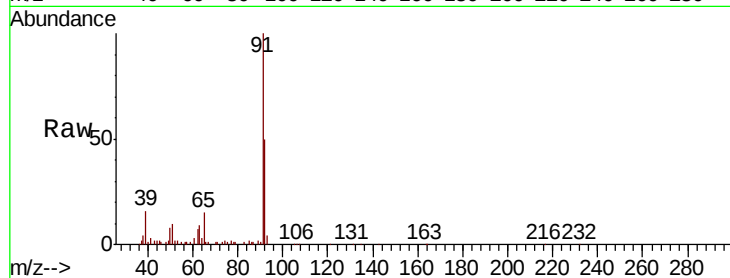
IA-3

Tot Ion: 91 Resp: 105219

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. 0.04 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

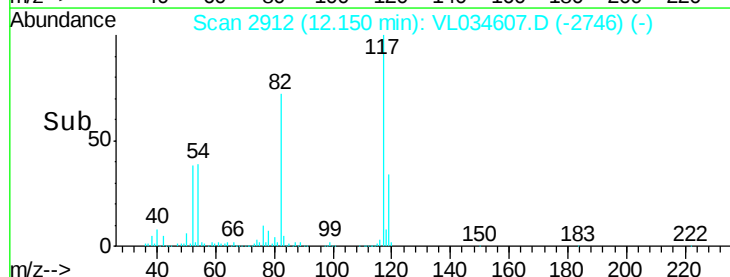
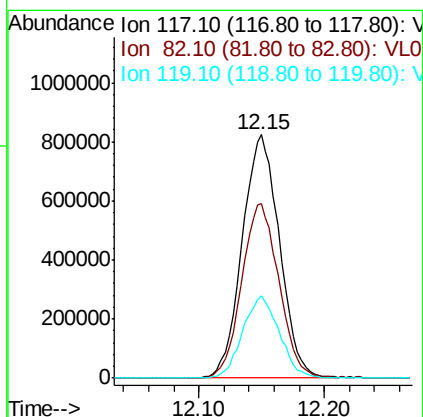
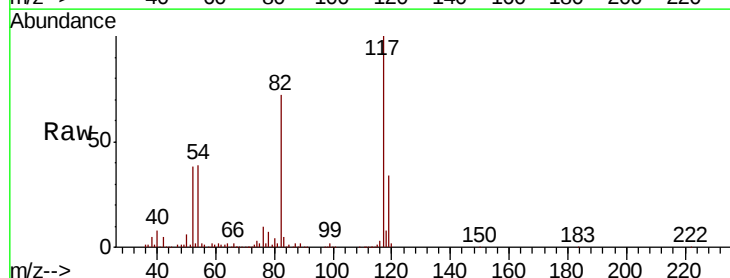
Tgt Ion: 117 Resp: 1701815

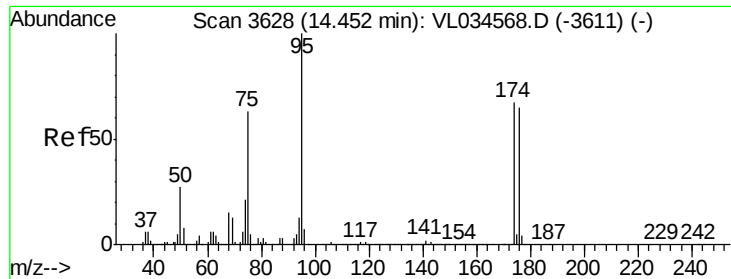
Ion Ratio Lower Upper

117 100

82 71.9 54.2 81.4

119 33.1 26.1 39.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.398 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion: 95 Resp: 1495572

Ion Ratio Lower Upper

95 100

174 62.9 52.3 78.5

175 4.5 3.8 5.6

