

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021020\  
 Data File : VX014898.D  
 Acq On : 10 Feb 2020 19:09  
 Operator : JC/SP  
 Sample : L1481-02  
 Misc : 3.51g/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 72-11989

Quant Time: Feb 11 06:48:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 437398   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 685393   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 665493   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 382184   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 244978   | 49.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.26%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 198299   | 47.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.12%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 810944   | 50.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.84% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 325793   | 56.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.46% |          |

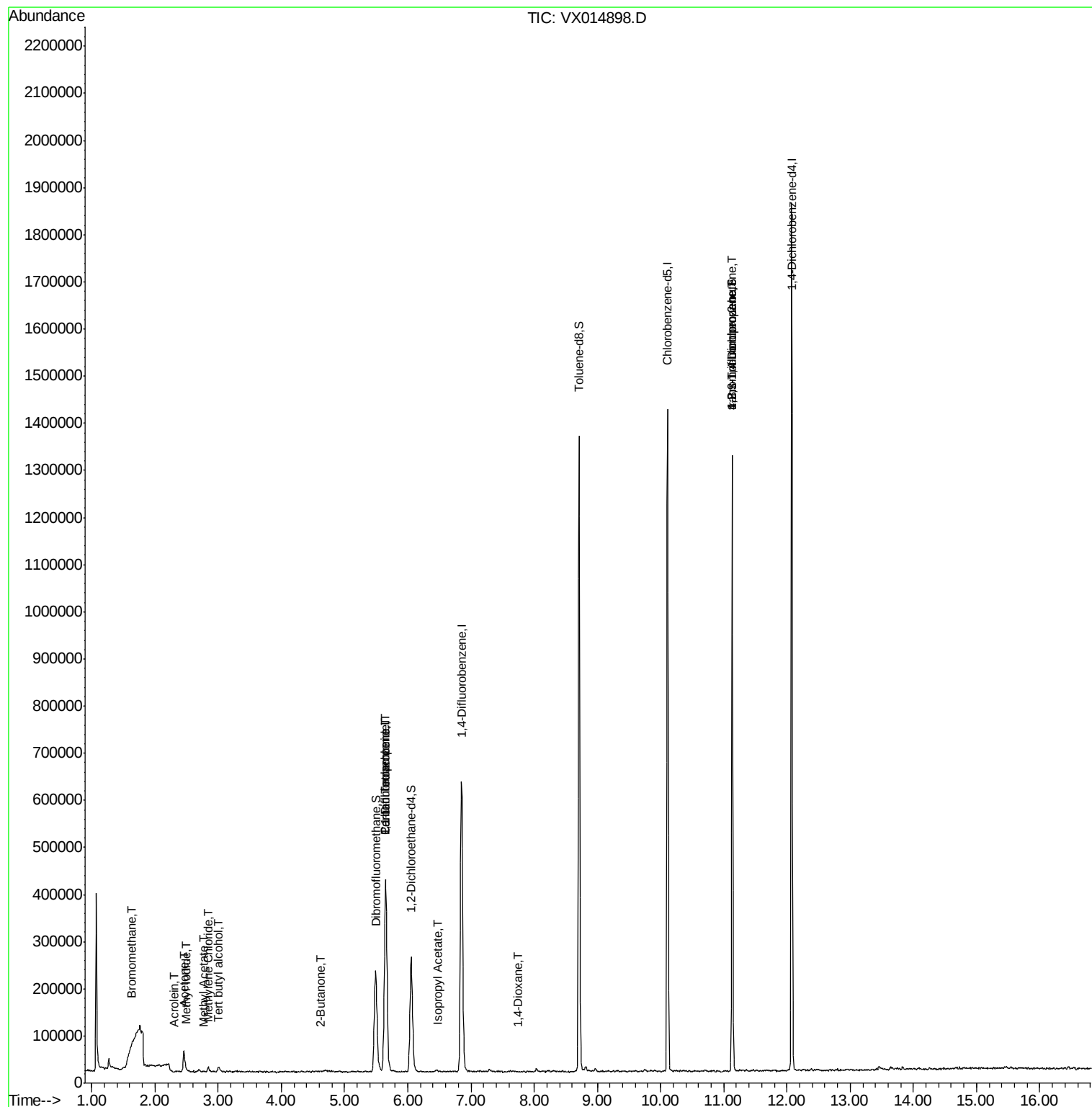
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.63  | 94   | 2496     | 0.762  | ug/l # | 81     |
| 10) Methyl Iodide              | 2.50  | 142  | 766      | 4.521  | ug/l # | 66     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 7264     | 8.334  | ug/l # | 77     |
| 13) Acrolein                   | 2.30  | 56   | 347      | 0.522  | ug/l # | 15     |
| 16) Acetone                    | 2.45  | 43   | 64941    | 14.183 | ug/l   | 97     |
| 18) Methyl Acetate             | 2.78  | 43   | 2743     | 0.552  | ug/l # | 64     |
| 20) Methylene Chloride         | 2.84  | 84   | 6098     | 1.284  | ug/l # | 88     |
| 25) 2-Butanone                 | 4.63  | 43   | 794      | 0.236  | ug/l # | 52     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 29961    | 4.887  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 37949    | 6.351  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.47  | 43   | 3790     | 0.359  | ug/l # | 79     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 151      | 1.556  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 160676   | 23.249 | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 160676   | 59.510 | ug/l # | 12     |

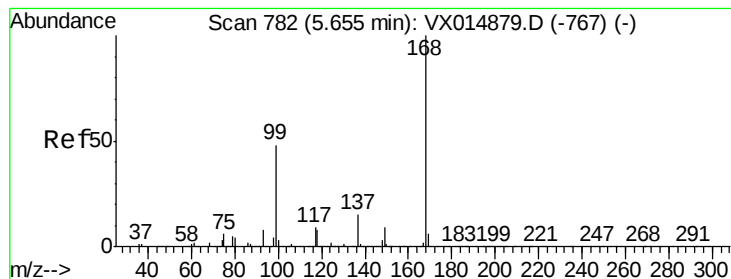
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021020\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
72-11989

Quant Time: Feb 11 06:48:54 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 10 12:09:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

Instrument :

MSVOA\_X

ClientSampleId :

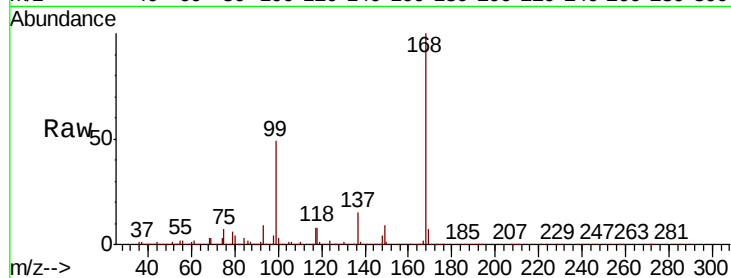
72-11989

Tot Ion:168 Resp: 437398

Ion Ratio Lower Upper

168 100

99 49.2 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

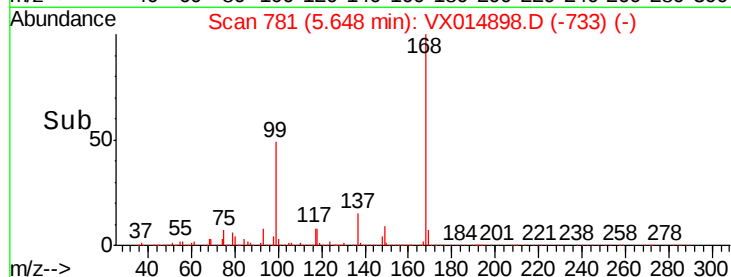
150000

100000

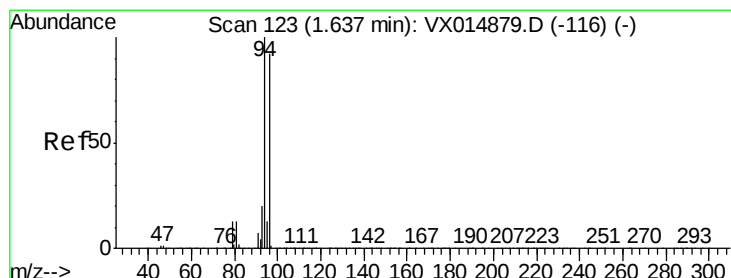
50000

0

5.50 5.60 5.70 5.80



Time-->



#5

Bromomethane

Concen: 0.762 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.01 min

Lab File: VX014898.D

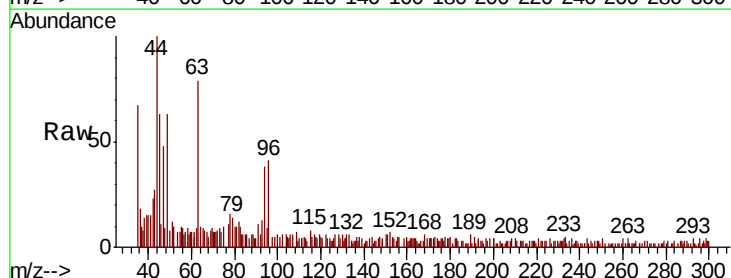
Acq: 10 Feb 2020 19:09

Tgt Ion: 94 Resp: 2496

Ion Ratio Lower Upper

94 100

96 110.6 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

2000

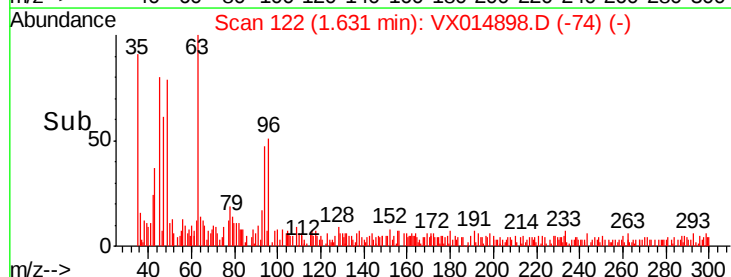
1500

1000

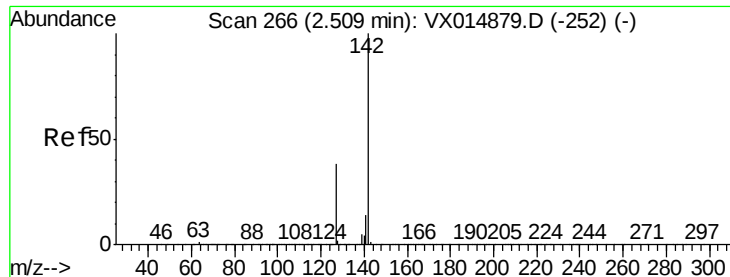
500

0

1.55 1.60 1.65



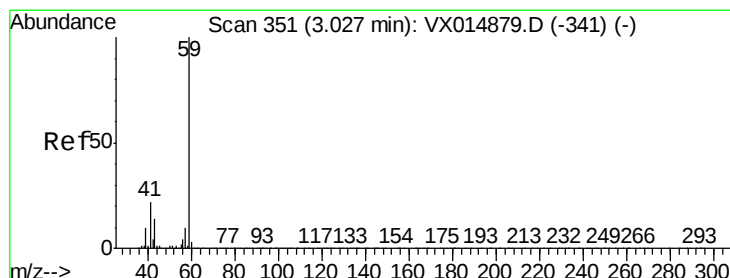
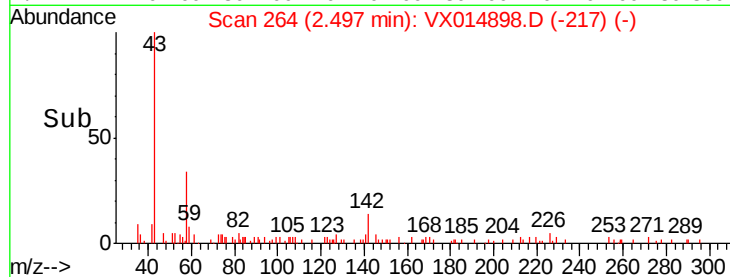
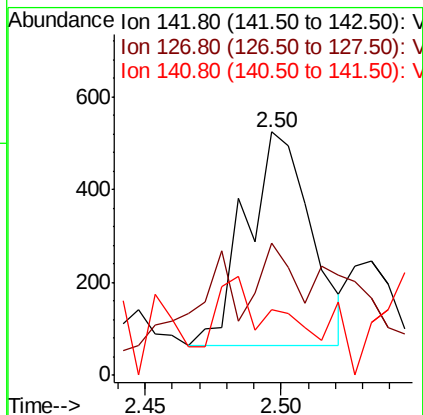
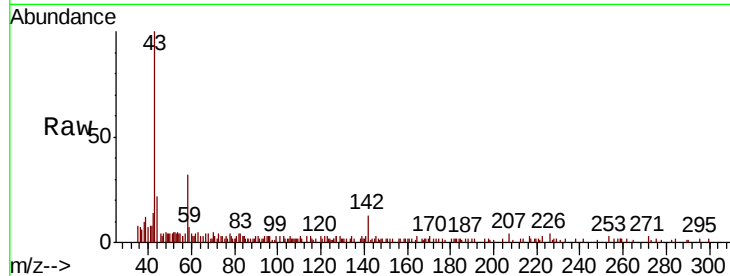
Time-->



#10  
Methvl Iodide  
Concen: 4.521 ug/l  
RT: 2.50 min Scan# 264  
Delta R.T. -0.01 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

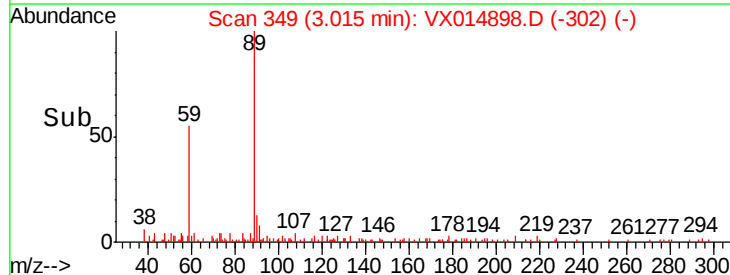
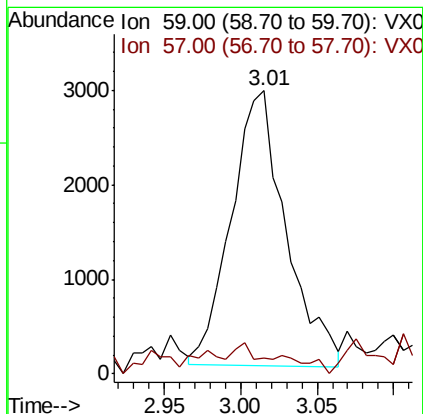
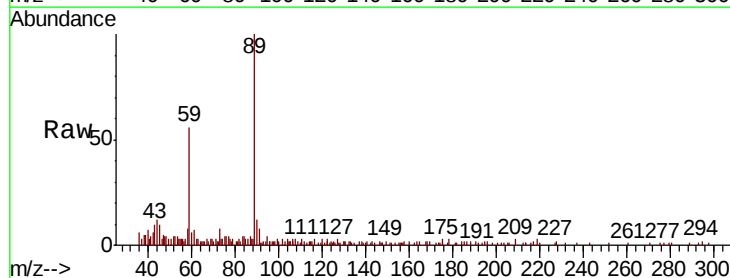
Instrument :  
MSVOA\_X  
ClientSampleId :  
72-11989

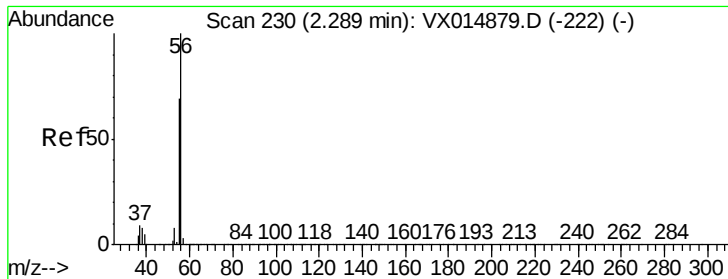
Tot Ion:142 Resp: 766  
Ion Ratio Lower Upper  
142 100  
127 18.4 31.1 46.7#  
141 0.0 11.3 16.9#



#11  
Tert butyl alcohol  
Concen: 8.334 ug/l  
RT: 3.01 min Scan# 349  
Delta R.T. -0.01 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

Tgt Ion: 59 Resp: 7264  
Ion Ratio Lower Upper  
59 100  
57 1.8 8.2 12.4#

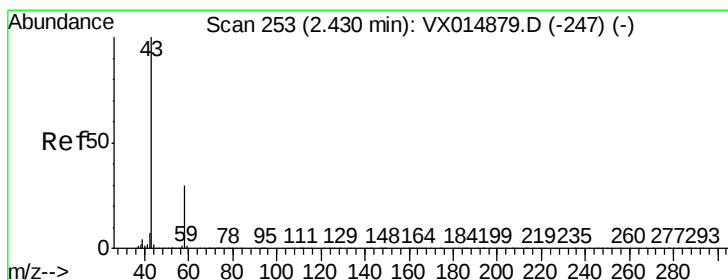
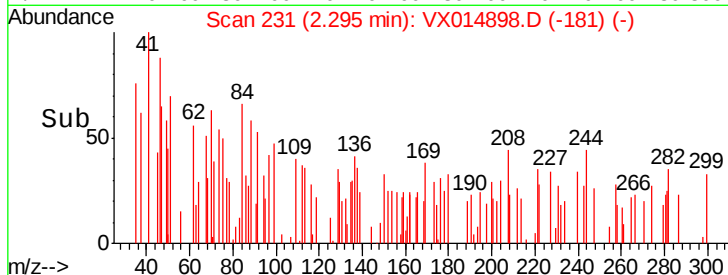
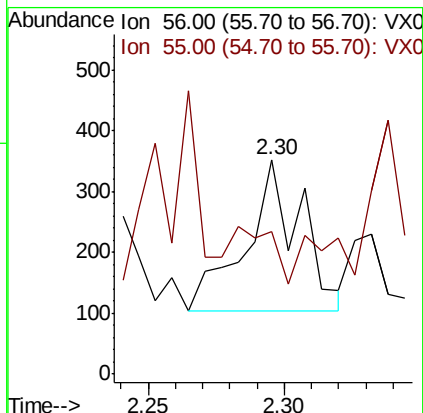
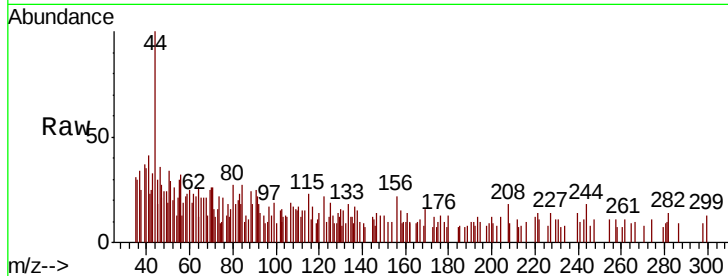




#13  
Acrolein  
Concen: 0.522 ug/l  
RT: 2.30 min Scan# 231  
Delta R.T. 0.01 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

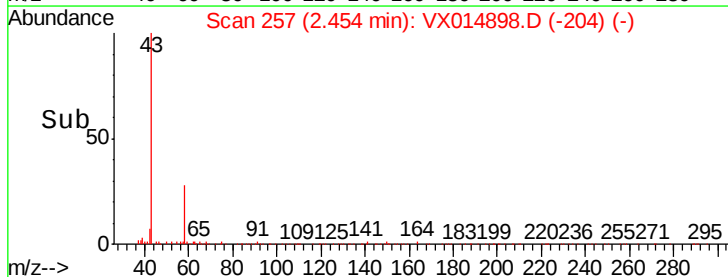
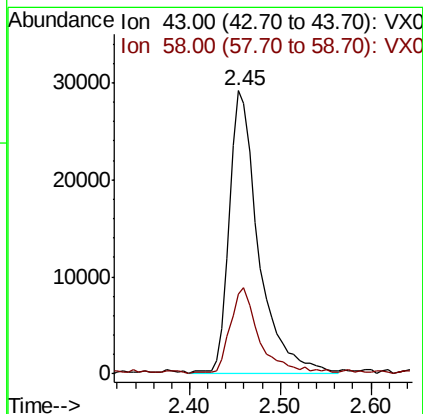
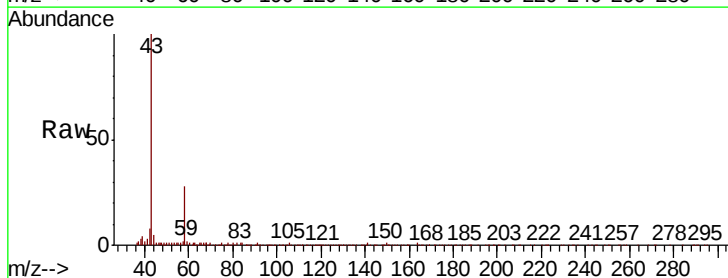
Instrument :  
MSVOA\_X  
ClientSampled :  
72-11989

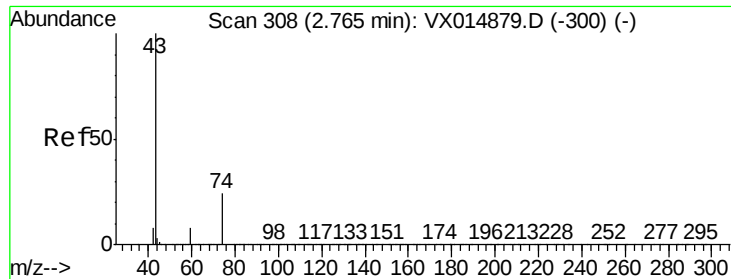
Tot Ion: 56 Resp: 347  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.0 82.4#



#16  
Acetone  
Concen: 14.183 ug/l  
RT: 2.45 min Scan# 257  
Delta R.T. 0.02 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

Tgt Ion: 43 Resp: 64941  
Ion Ratio Lower Upper  
43 100  
58 28.4 24.1 36.1

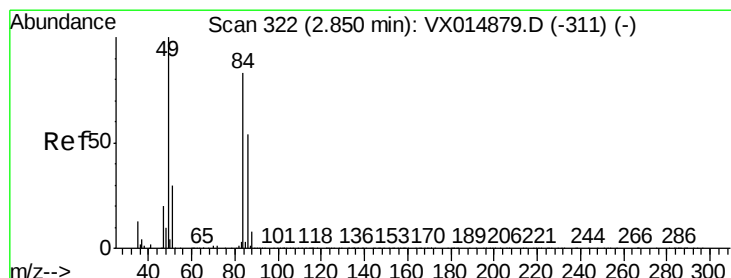
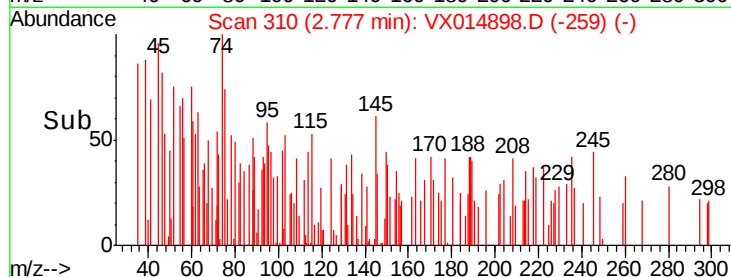
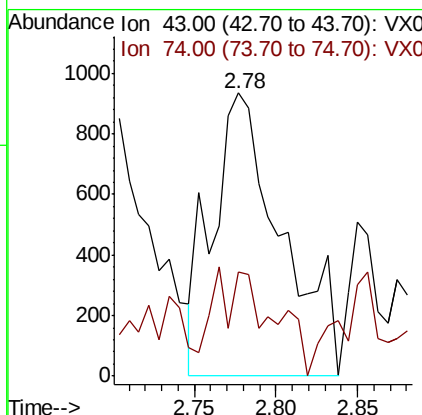
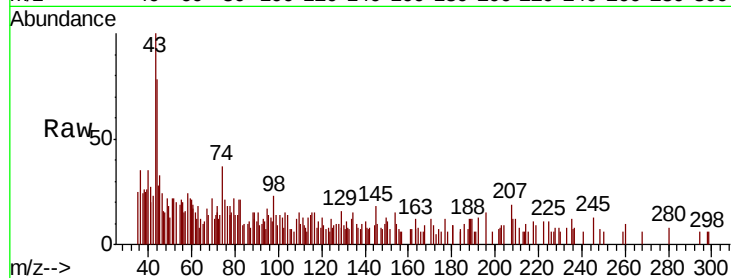




#18  
Methyl Acetate  
Concen: 0.552 ug/l  
RT: 2.78 min Scan# 310  
Delta R.T. 0.01 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

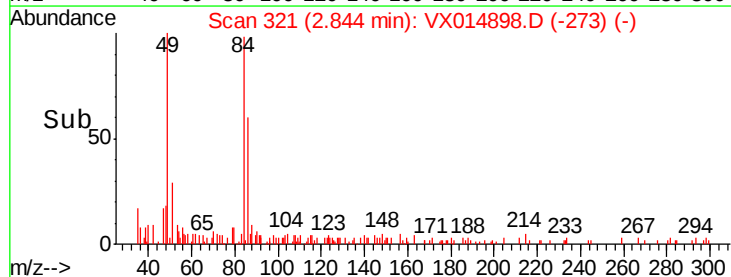
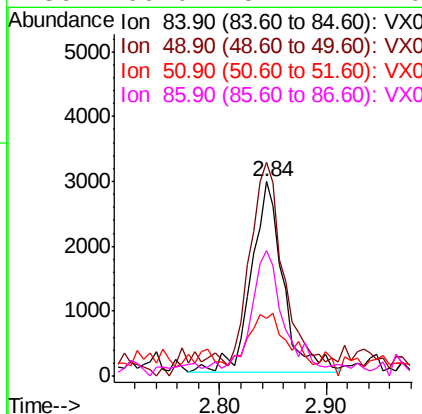
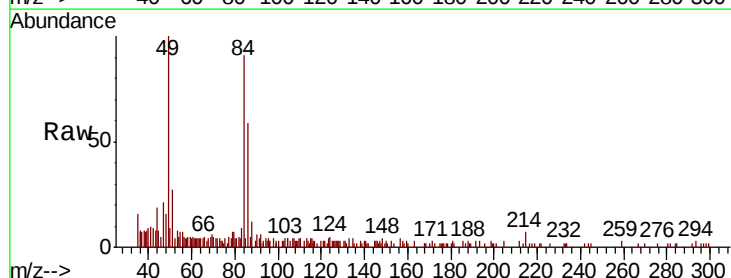
Instrument :  
MSVOA\_X  
ClientSampled :  
72-11989

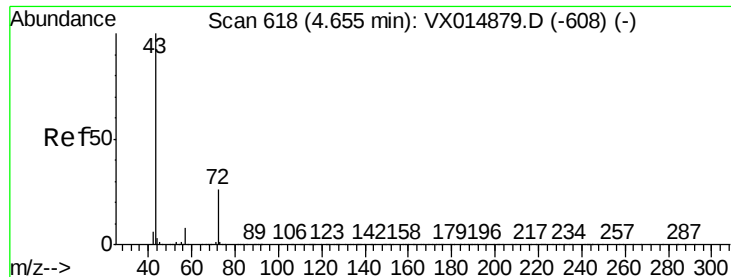
Tot Ion: 43 Resp: 2743  
Ion Ratio Lower Upper  
43 100  
74 6.5 19.4 29.0#



#20  
Methylene Chloride  
Concen: 1.284 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.01 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

Tgt Ion: 84 Resp: 6098  
Ion Ratio Lower Upper  
84 100  
49 105.5 95.6 143.4  
51 25.1 29.0 43.6#  
86 60.0 51.4 77.0





#25

2-Butanone

Concen: 0.236 ug/l

RT: 4.63 min Scan# 614

Delta R.T. -0.02 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

Instrument :

MSVOA\_X

ClientSampleId :

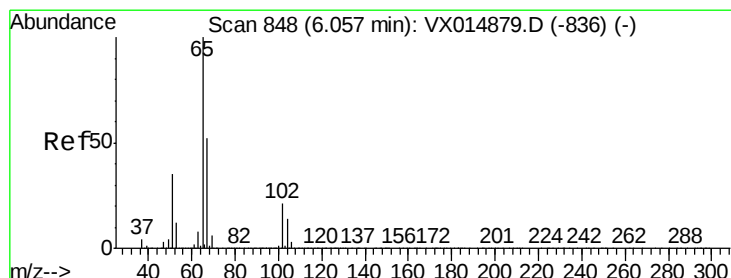
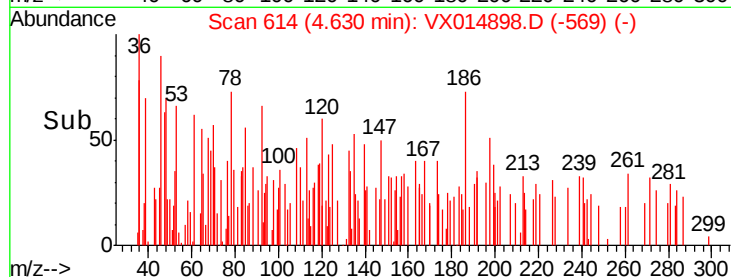
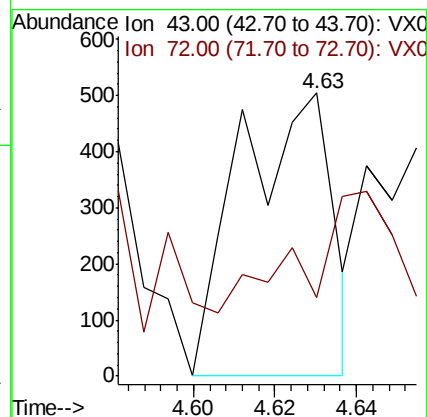
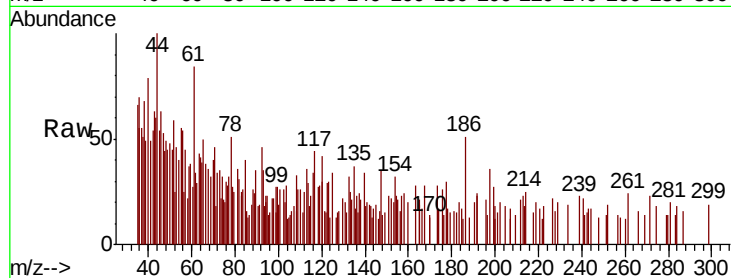
72-11989

Tot Ion: 43 Resp: 794

Ion Ratio Lower Upper

43 100

72 1.6 21.0 31.6#



#33

1,2-Dichloroethane-d4

Concen: 49.627 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX014898.D

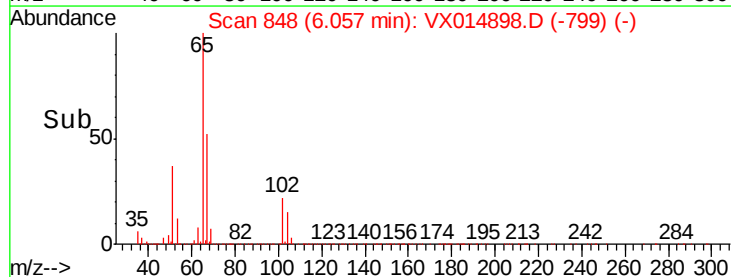
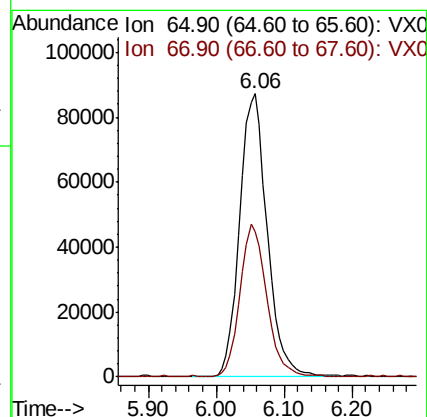
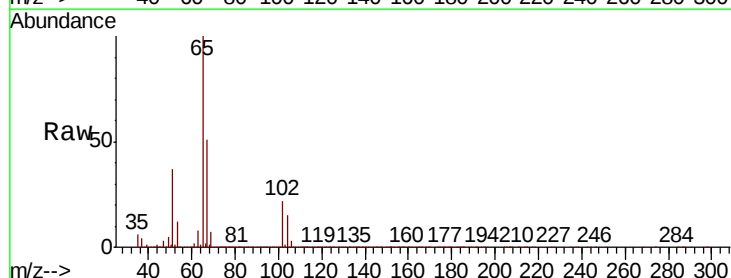
Acq: 10 Feb 2020 19:09

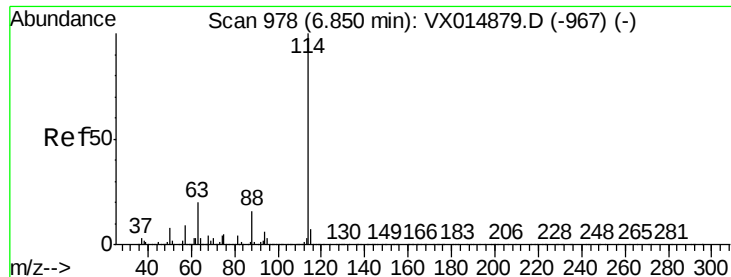
Tgt Ion: 65 Resp: 244978

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

Instrument :

MSVOA\_X

ClientSampleId :

72-11989

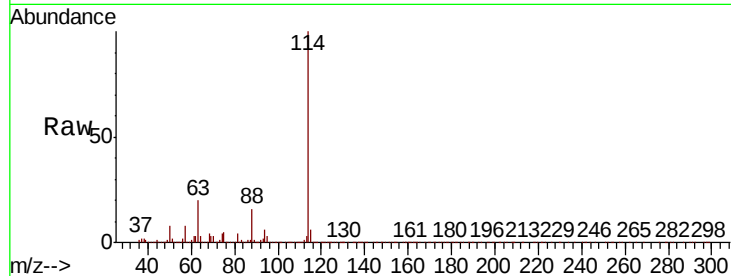
Tot Ion:114 Resp: 685393

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

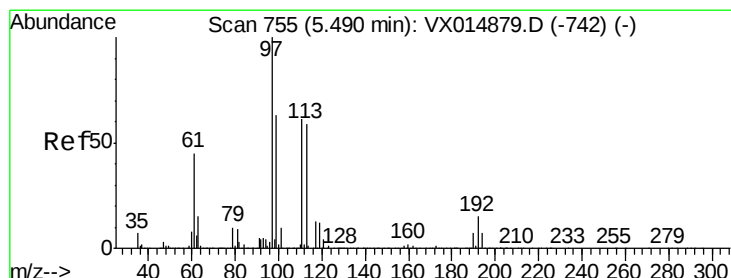
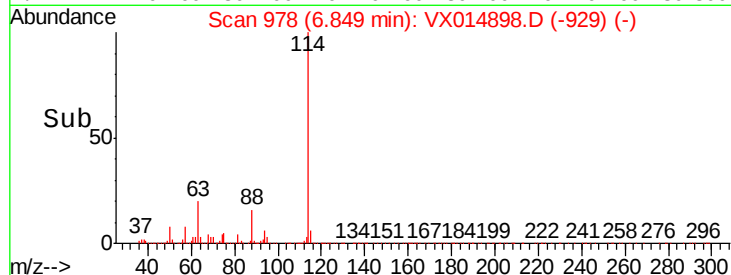
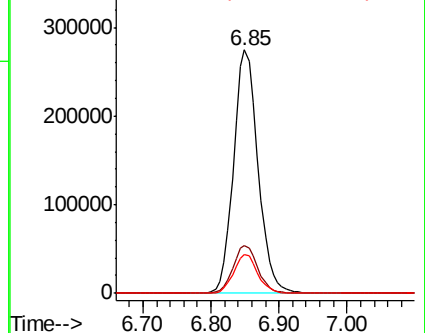
88 15.6 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.061 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

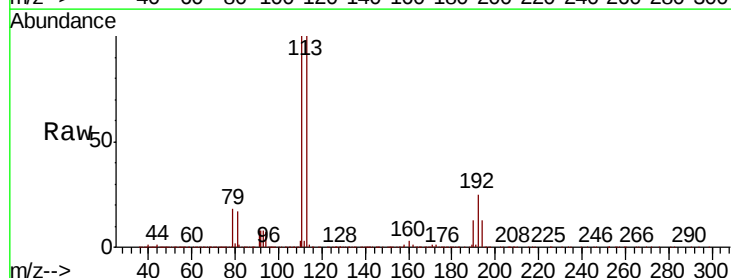
Tgt Ion:113 Resp: 198299

Ion Ratio Lower Upper

113 100

111 102.2 82.4 123.6

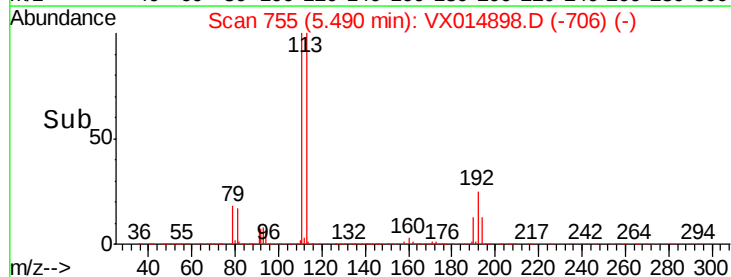
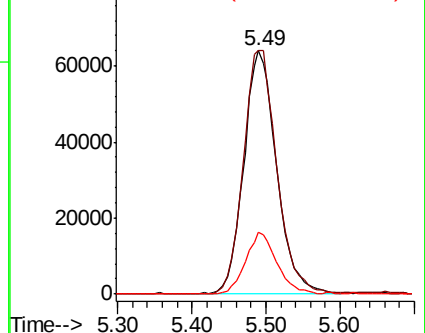
192 24.1 19.1 28.7

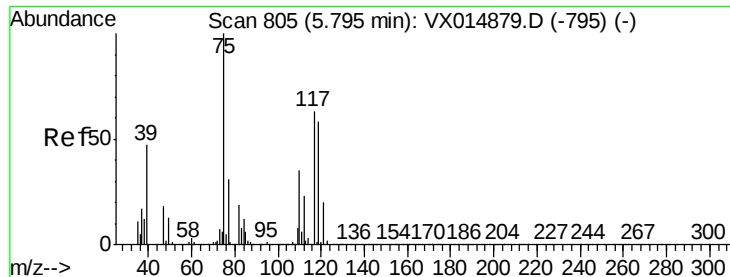


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.887 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

Instrument :

MSVOA\_X

ClientSampled :

72-11989

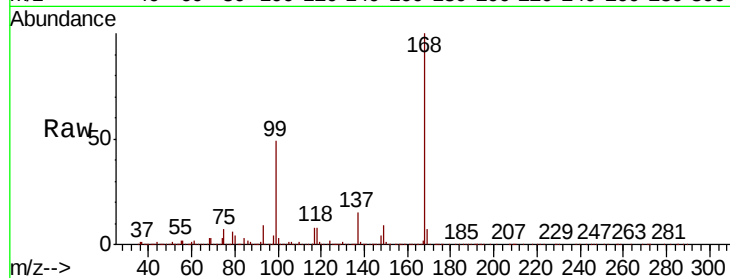
Tot Ion: 75 Resp: 29961

Ion Ratio Lower Upper

75 100

110 11.7 18.3 54.8#

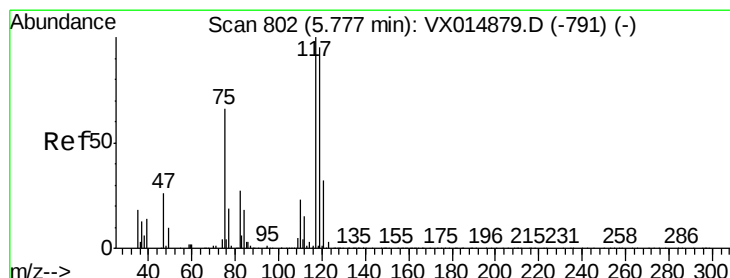
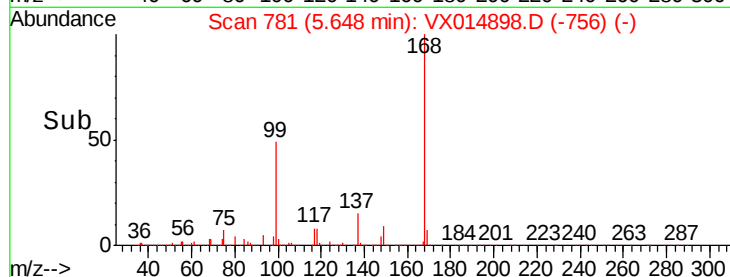
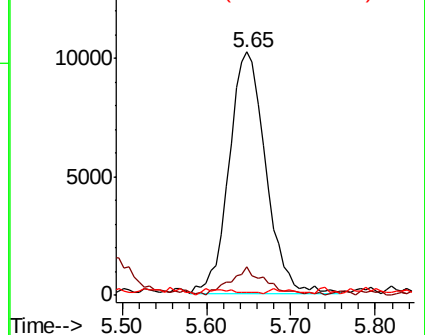
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX014898.D (-756) (-)

Ion 109.90 (109.60 to 110.60): VX014898.D (-756) (-)

Ion 76.90 (76.60 to 77.60): VX014898.D (-756) (-)



#38

Carbon Tetrachloride

Concen: 6.351 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

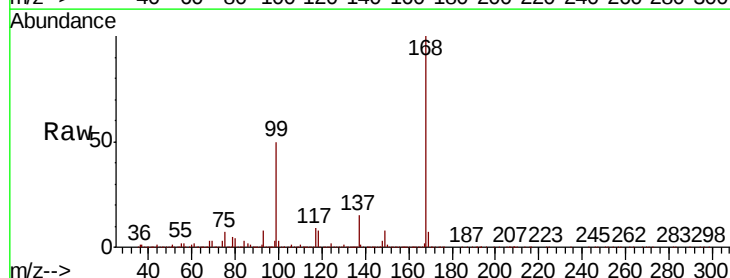
Tgt Ion: 117 Resp: 37949

Ion Ratio Lower Upper

117 100

119 4.1 76.0 114.0#

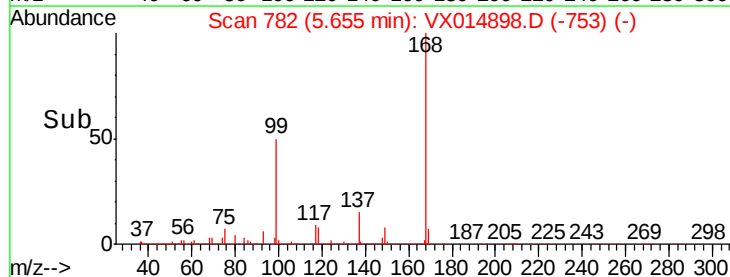
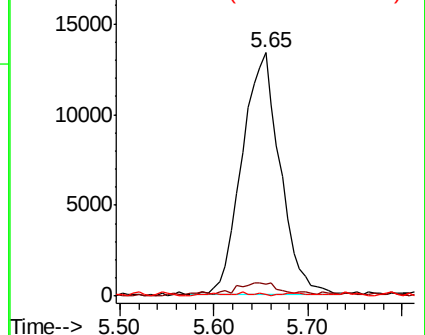
121 1.7 25.4 38.2#

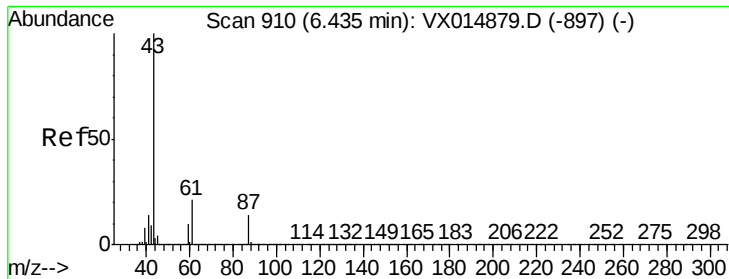


Abundance Ion 116.80 (116.50 to 117.50): VX014898.D (-753) (-)

Ion 118.80 (118.50 to 119.50): VX014898.D (-753) (-)

Ion 120.80 (120.50 to 121.50): VX014898.D (-753) (-)





#43

Isopropyl Acetate

Concen: 0.359 ug/l

RT: 6.47 min Scan# 915

Delta R.T. 0.03 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

Instrument :

MSVOA\_X

ClientSampleId :

72-11989

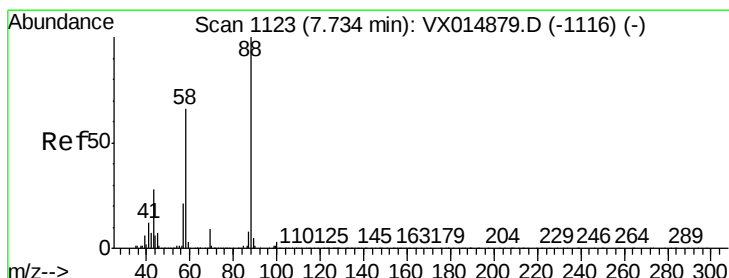
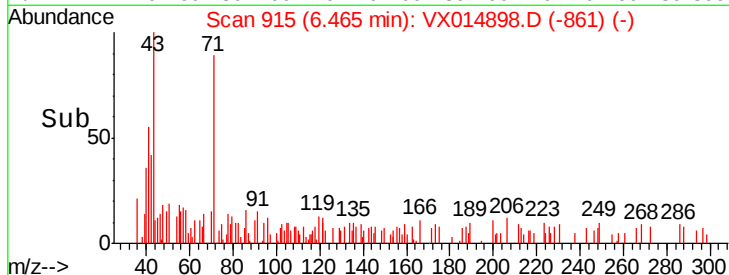
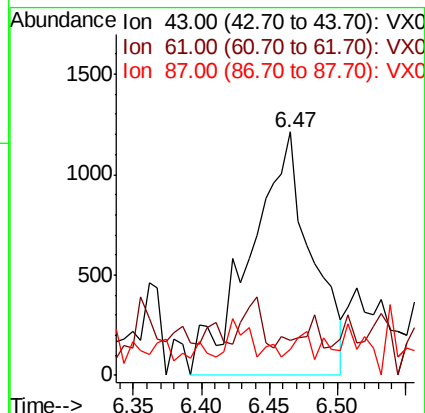
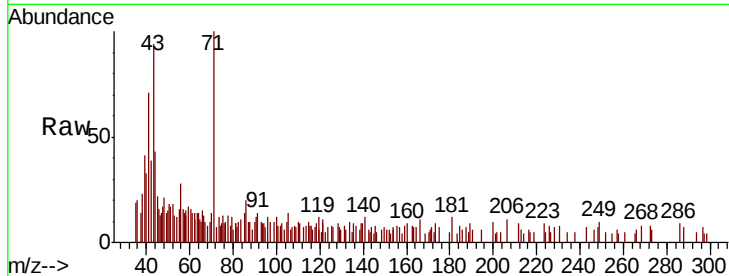
Tot Ion: 43 Resp: 3790

Ion Ratio Lower Upper

43 100

61 12.8 16.2 24.4#

87 2.8 11.0 16.6#



#49

1,4-Dioxane

Concen: 1.556 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

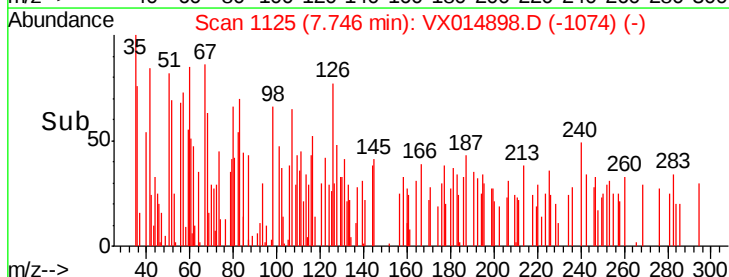
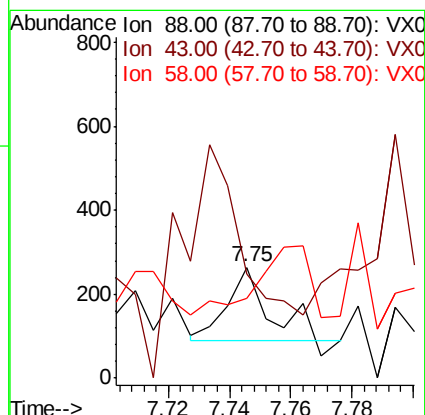
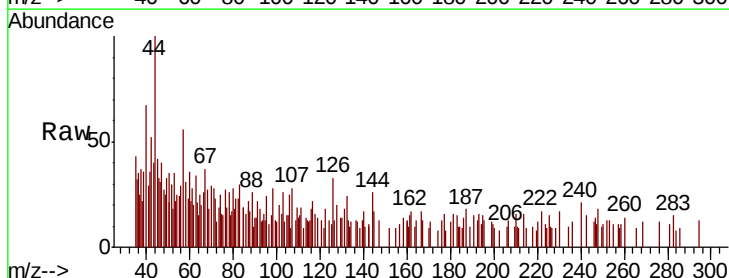
Tgt Ion: 88 Resp: 151

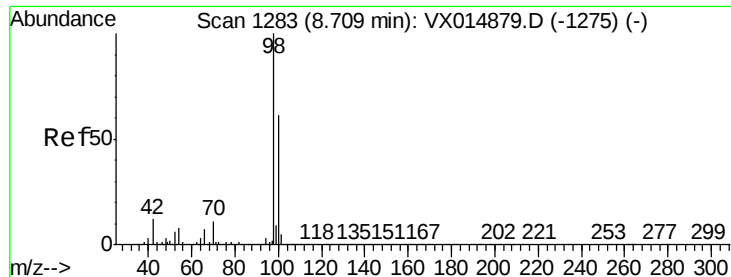
Ion Ratio Lower Upper

88 100

43 595.4 27.0 40.4#

58 0.0 53.2 79.8#





#50

Toluene-d8

Concen: 50.420 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

Instrument :

MSVOA\_X

ClientSampleId :

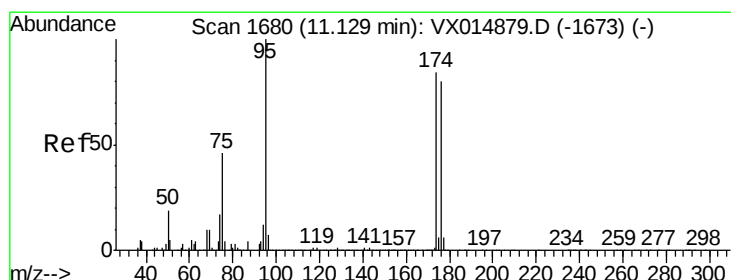
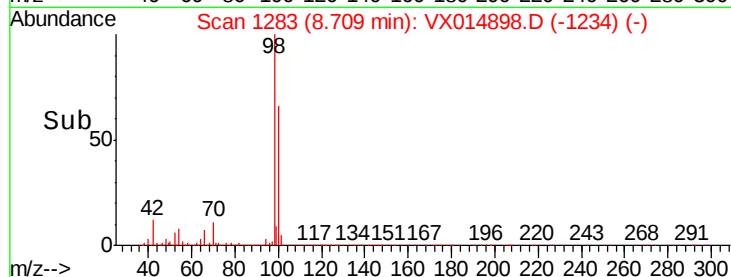
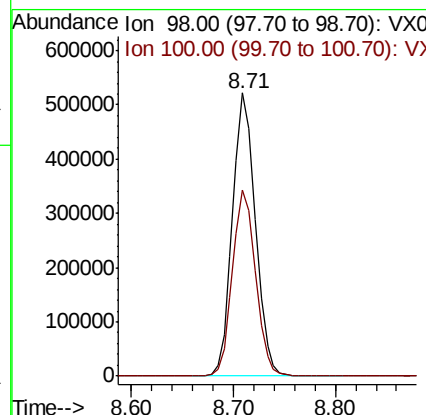
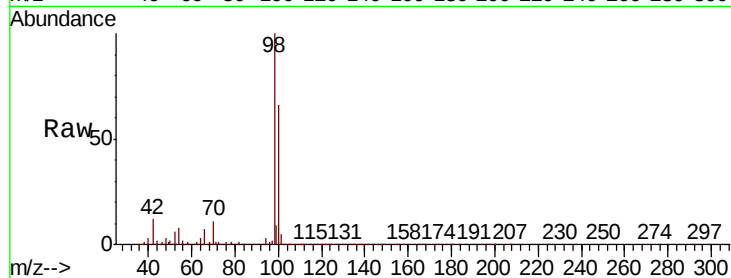
72-11989

Tot Ion: 98 Resp: 810944

Ion Ratio Lower Upper

98 100

100 66.2 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 56.230 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX014898.D

Acq: 10 Feb 2020 19:09

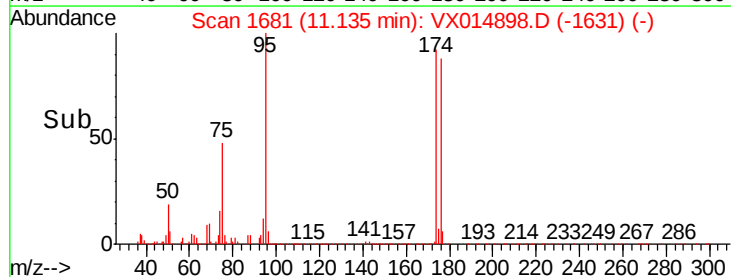
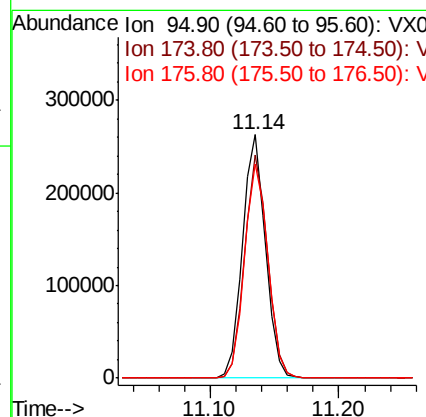
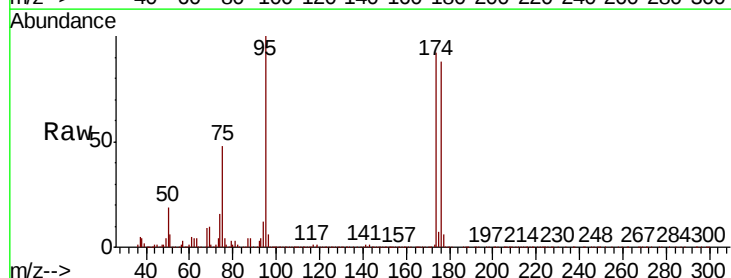
Tgt Ion: 95 Resp: 325793

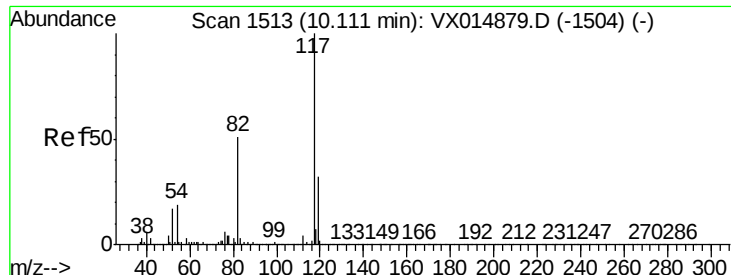
Ion Ratio Lower Upper

95 100

174 91.8 0.0 183.0

176 89.7 0.0 178.0

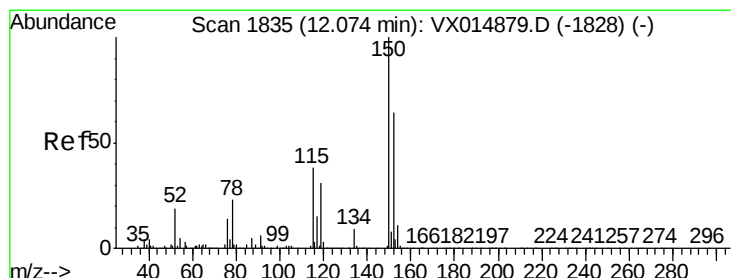
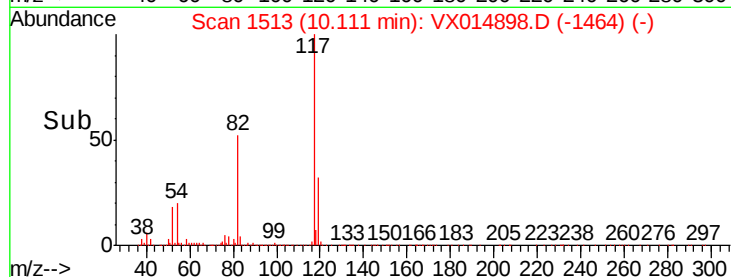
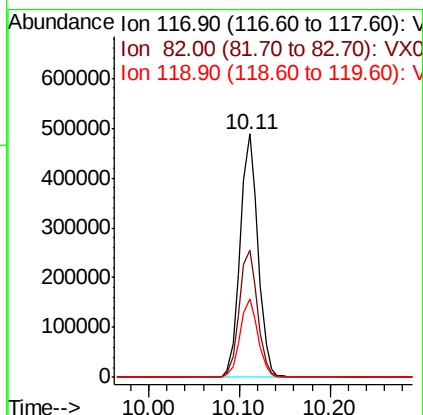
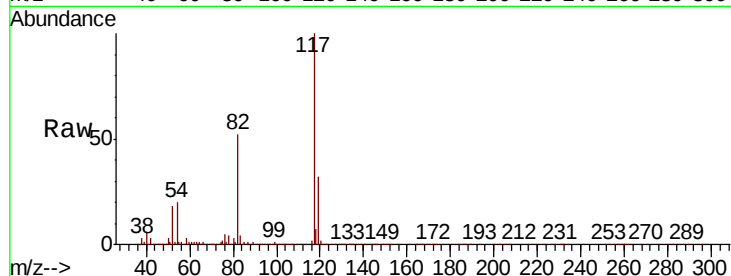




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

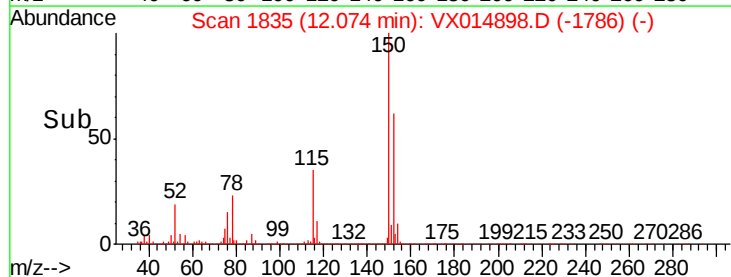
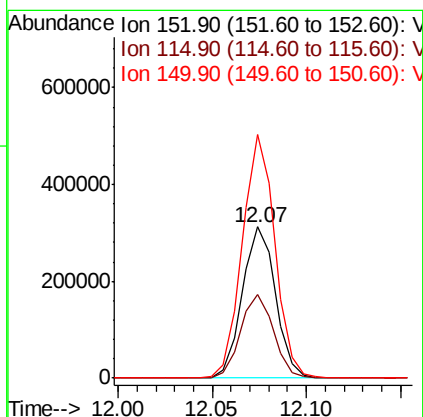
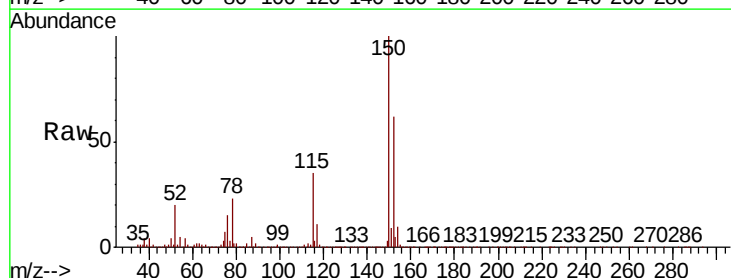
Instrument :  
MSVOA\_X  
ClientSampleId :  
72-11989

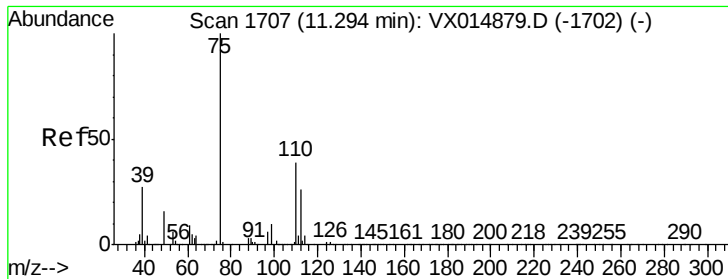
Tot Ion:117 Resp: 665493  
Ion Ratio Lower Upper  
117 100  
82 52.0 40.5 60.7  
119 32.2 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX014898.D  
Acq: 10 Feb 2020 19:09

Tgt Ion:152 Resp: 382184  
Ion Ratio Lower Upper  
152 100  
115 55.1 38.6 116.0  
150 157.6 0.0 349.0

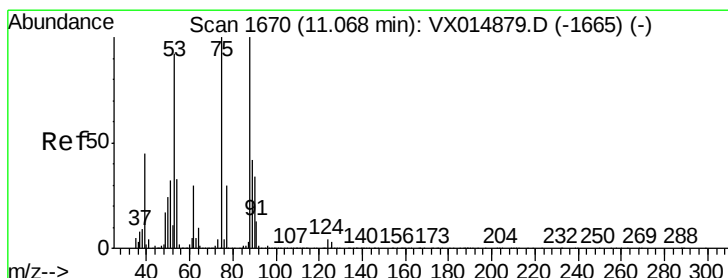
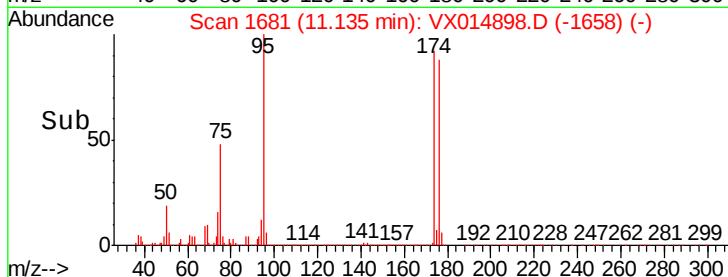
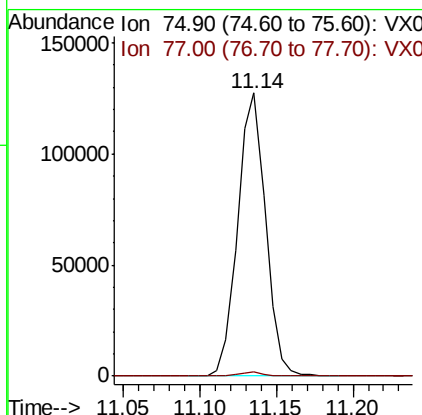
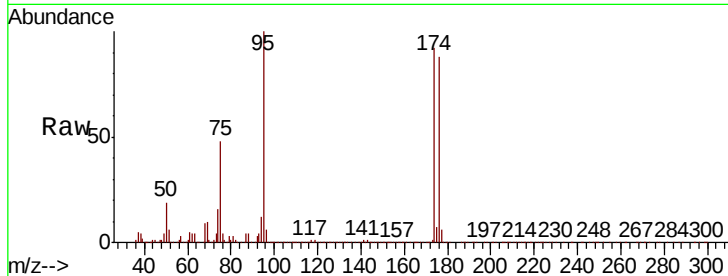




#76  
 1,2,3-Trichloropropane  
 Concen: 23.249 ug/l  
 RT: 11.14 min Scan# 1681  
 Delta R.T. -0.16 min  
 Lab File: VX014898.D  
 Acq: 10 Feb 2020 19:09

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 72-11989

Tot Ion: 75 Resp: 160676  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 18.4 55.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 59.510 ug/l  
 RT: 11.14 min Scan# 1681  
 Delta R.T. 0.07 min  
 Lab File: VX014898.D  
 Acq: 10 Feb 2020 19:09

Tgt Ion: 75 Resp: 160676  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 76.2 114.2#  
 89 0.1 35.8 53.6#

