

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\  
 Data File : VX016119.D  
 Acq On : 08 May 2020 14:33  
 Operator : JC/SP  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 09 01:48:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 272318   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 454389   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 432801   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 222640   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 170512   | 47.58  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.16%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 136850   | 47.54  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.08%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 550952   | 49.67  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.34%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 219661   | 52.07  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.14% |          |

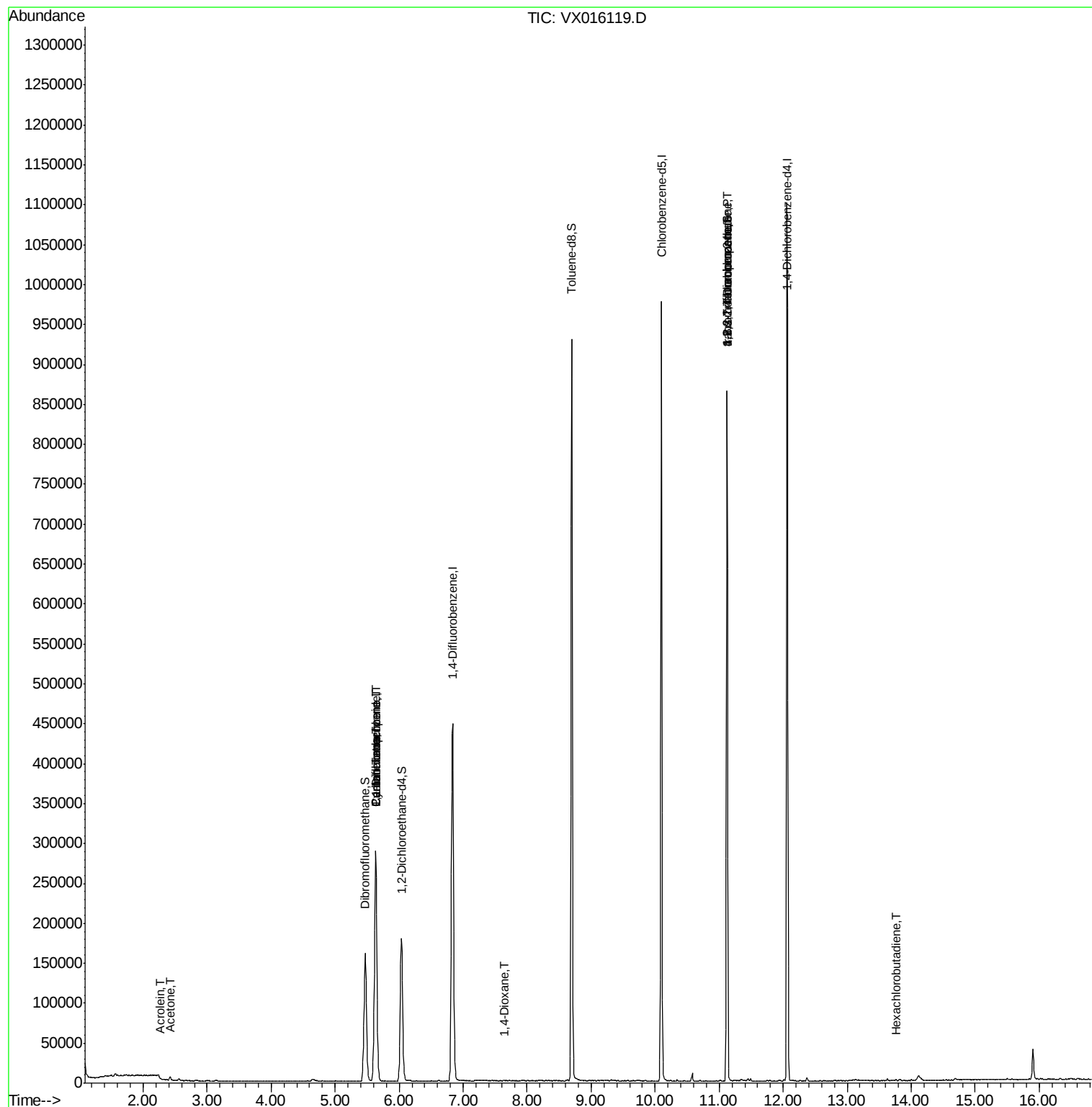
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acrolein                   | 2.28  | 56   | 150      | 0.265  | ug/l # | 73     |
| 16) Acetone                    | 2.42  | 43   | 3913     | 2.447  | ug/l   | 97     |
| 31) Cyclohexane                | 5.64  | 56   | 5638     | 1.133  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 21408    | 4.786  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 25868    | 5.690  | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.65  | 88   | 19       | 0.202  | ug/l # | 1      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.12 | 83   | 185      | 2.110  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 112350   | 22.238 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 112350   | 52.994 | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.76 | 225  | 221      | 0.618  | ug/l   | 90     |

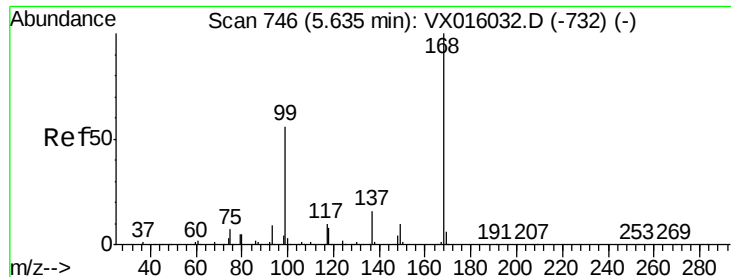
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050820\  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: May 09 01:48:29 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

Instrument :

MSVOA\_X

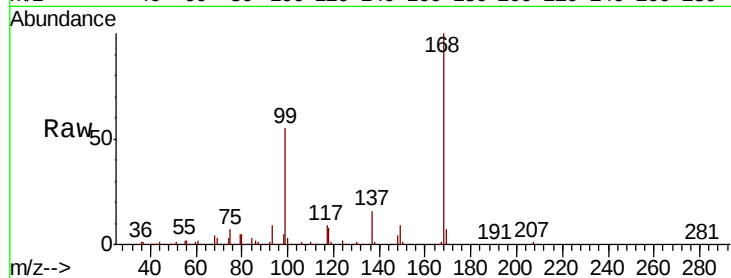
ClientSampled :

Tot Ion:168 Resp: 272318

Ion Ratio Lower Upper

168 100

99 54.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

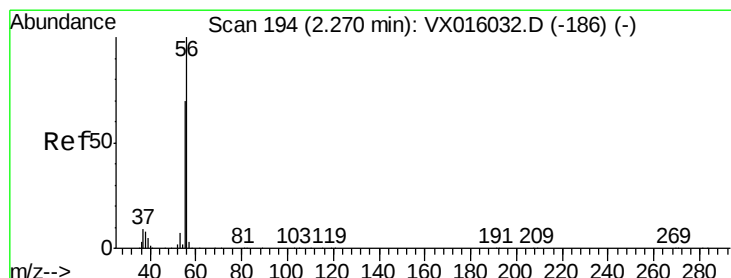
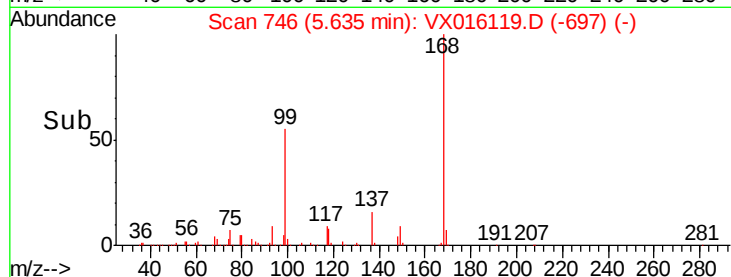
60000

40000

20000

0

Time-->



#13

Acrolein

Concen: 0.265 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016119.D

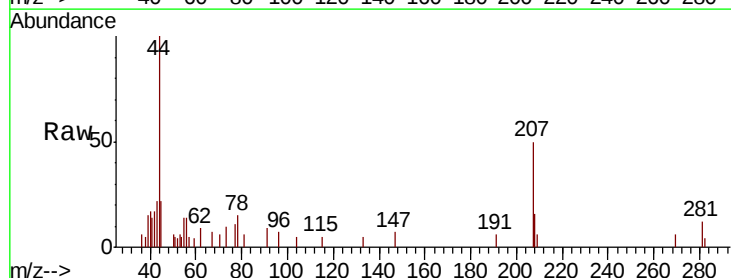
Acq: 08 May 2020 14:33

Tgt Ion: 56 Resp: 150

Ion Ratio Lower Upper

56 100

55 48.7 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

250

200

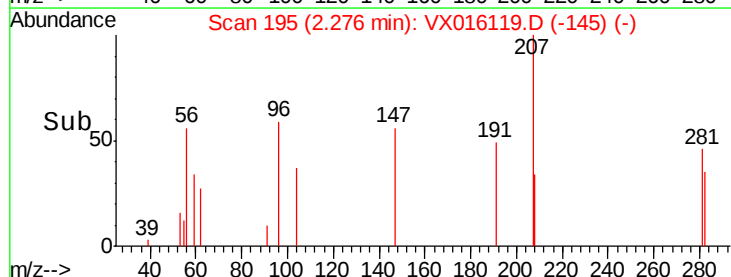
150

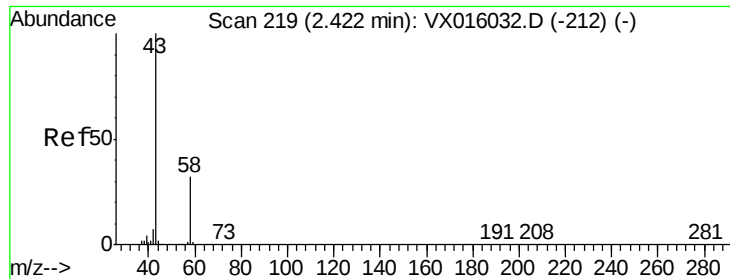
100

50

0

Time-->

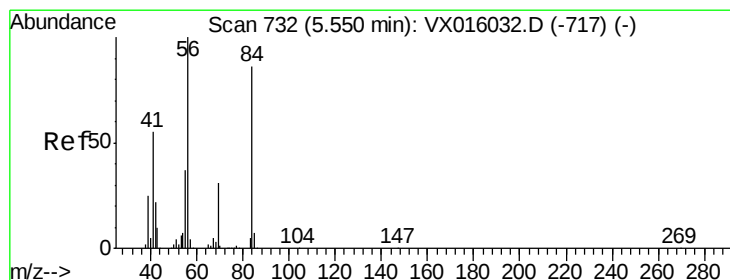
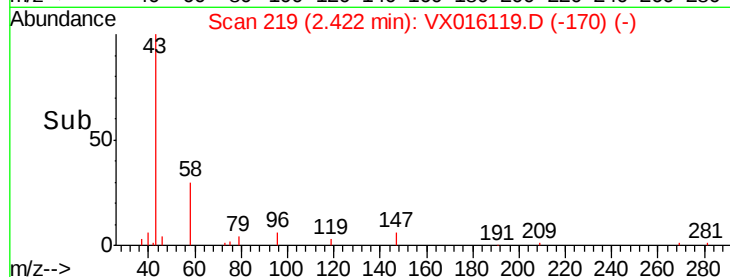
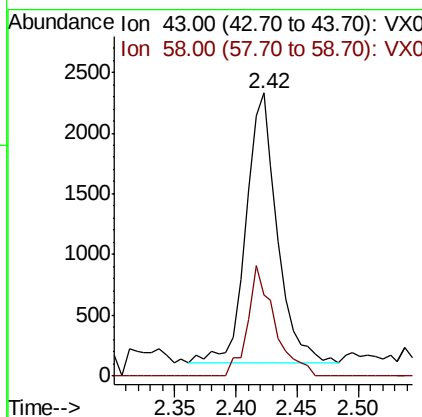
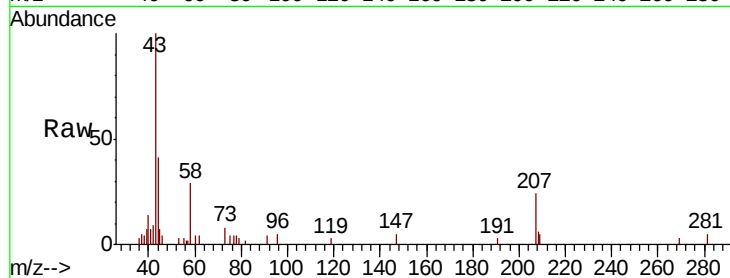




#16  
Acetone  
Concen: 2.447 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. -0.00 min  
Lab File: VX016119.D  
Acq: 08 May 2020 14:33

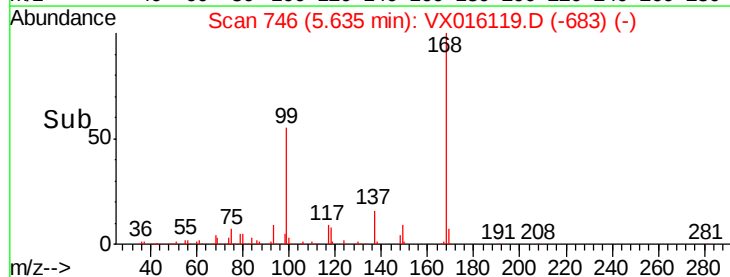
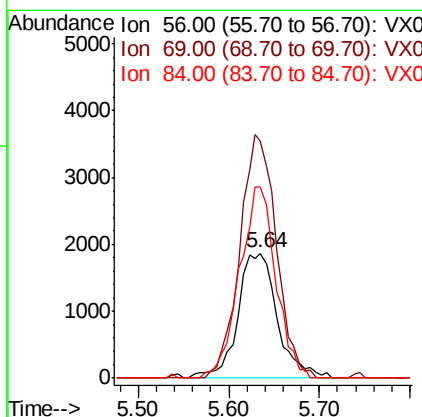
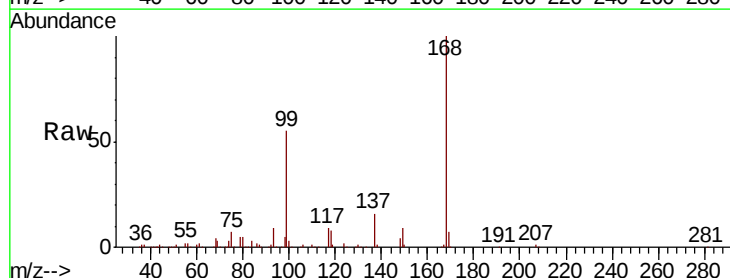
Instrument :  
MSVOA\_X  
ClientSampled :

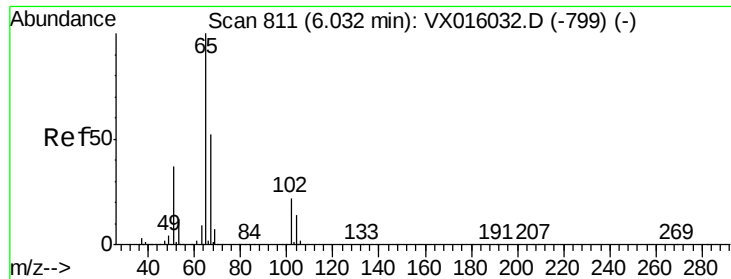
Tot Ion: 43 Resp: 3913  
Ion Ratio Lower Upper  
43 100  
58 30.0 25.4 38.0



#31  
Cyclohexane  
Concen: 1.133 ug/l  
RT: 5.64 min Scan# 746  
Delta R.T. 0.09 min  
Lab File: VX016119.D  
Acq: 08 May 2020 14:33

Tgt Ion: 56 Resp: 5638  
Ion Ratio Lower Upper  
56 100  
69 189.9 25.0 37.6#  
84 152.9 69.0 103.6#

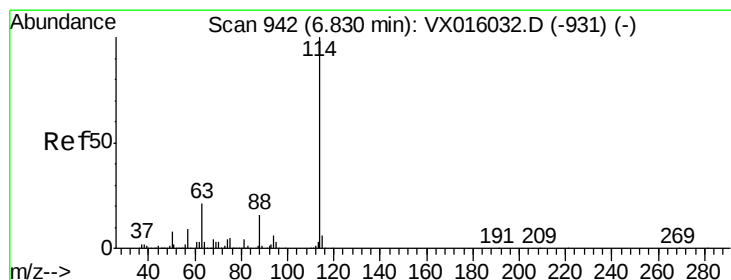
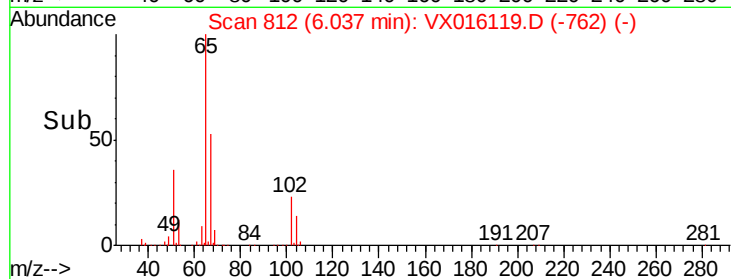
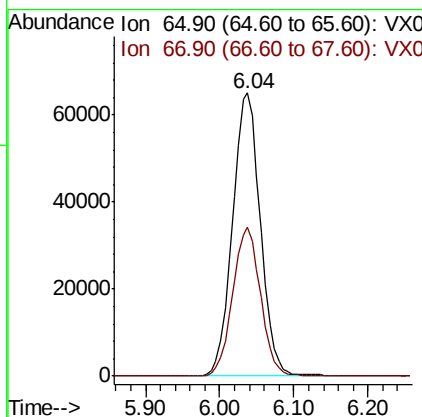
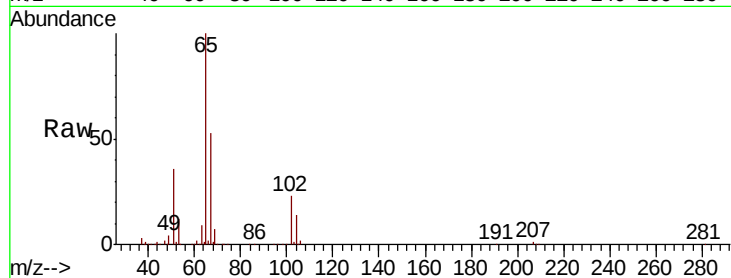




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.584 ug/l  
 RT: 6.04 min Scan# 812  
 Delta R.T. 0.01 min  
 Lab File: VX016119.D  
 Acq: 08 May 2020 14:33

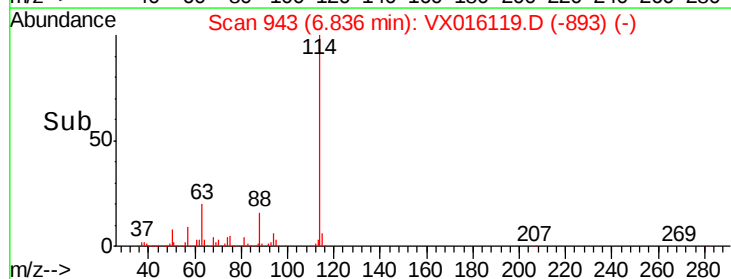
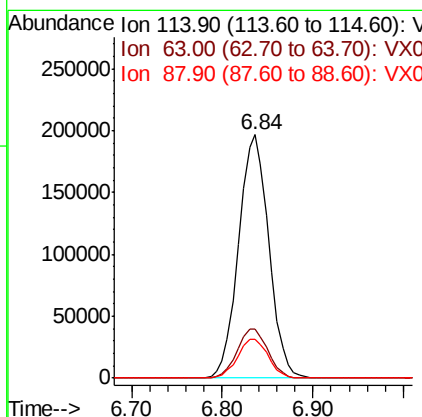
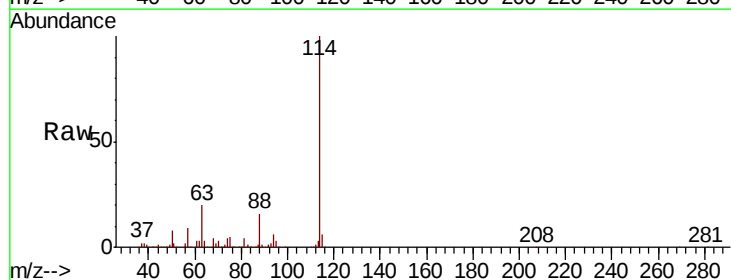
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 65 Resp: 170512  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. 0.01 min  
 Lab File: VX016119.D  
 Acq: 08 May 2020 14:33

Tgt Ion: 114 Resp: 454389  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 42.8  
 88 16.0 0.0 31.4

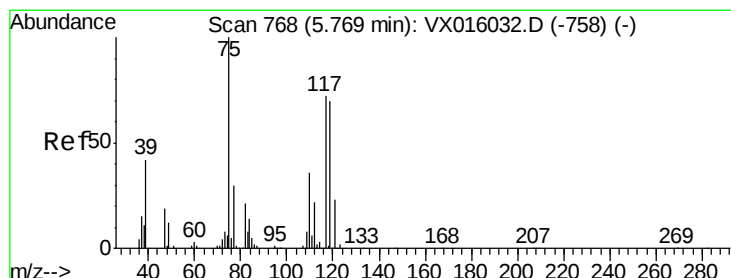
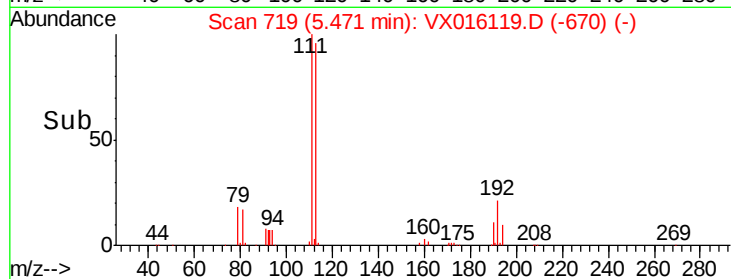
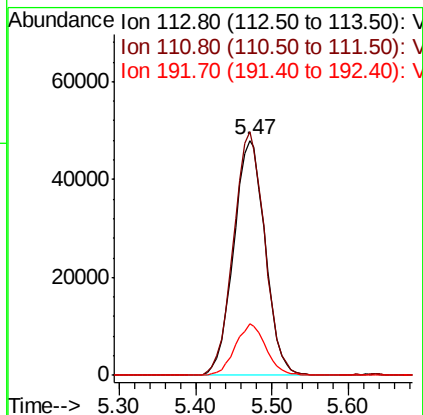
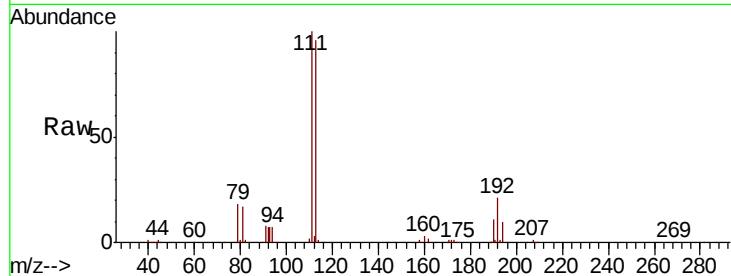




#35  
 Dibromofluoromethane  
 Concen: 47.538 ug/l  
 RT: 5.47 min Scan# 719  
 Delta R.T. -0.00 min  
 Lab File: VX016119.D  
 Acq: 08 May 2020 14:33

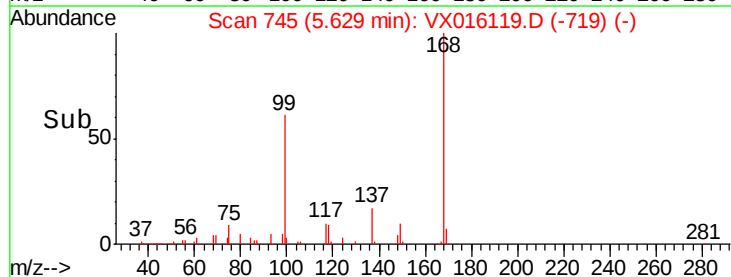
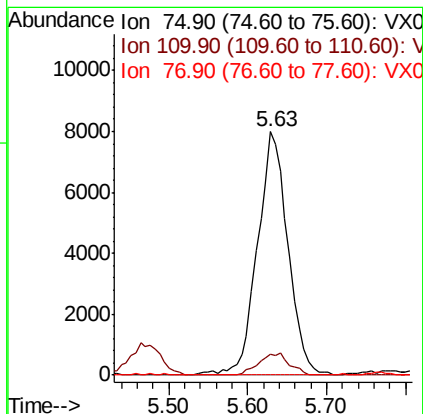
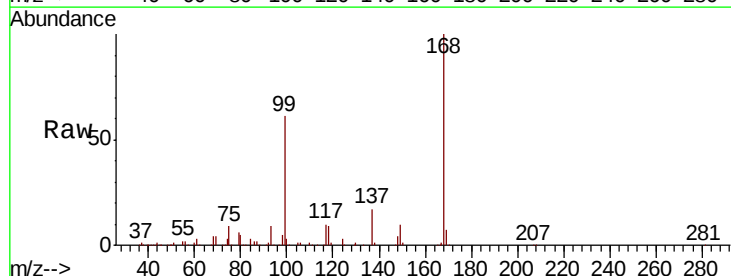
Instrument :  
 MSVOA\_X  
 ClientSampleId :

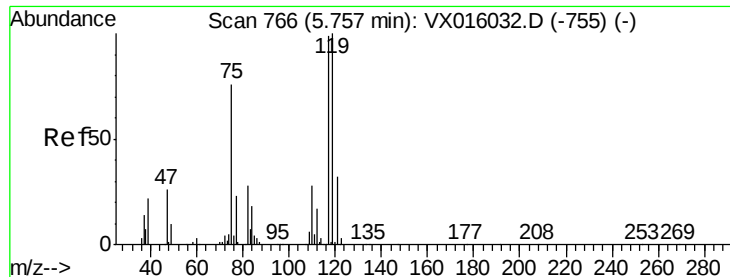
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 81.6  | 122.4 |
| 192     | 21.2  | 17.0  | 25.4  |



#36  
 1,1-Dichloropropene  
 Concen: 4.786 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX016119.D  
 Acq: 08 May 2020 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 18.1  | 54.1# |
| 77      | 0.0   | 25.0  | 37.6# |





#38

Carbon Tetrachloride

Concen: 5.690 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

Instrument :

MSVOA\_X

ClientSampleId :

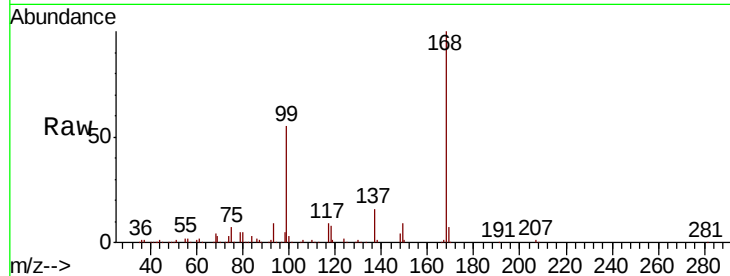
Tot Ion:117 Resp: 25868

Ion Ratio Lower Upper

117 100

119 5.6 80.3 120.5#

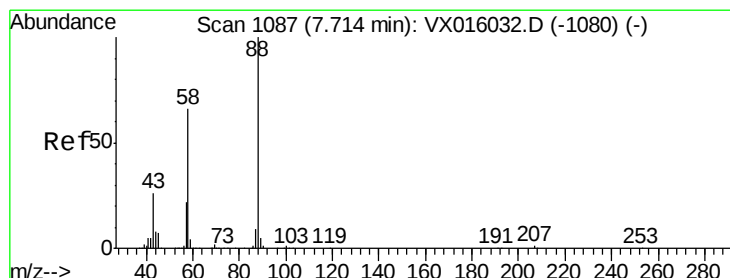
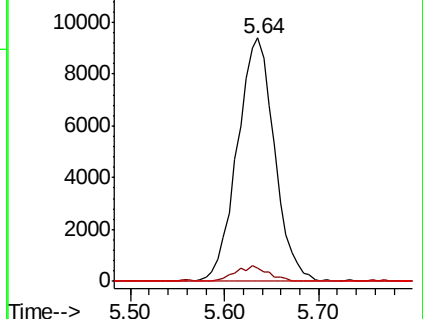
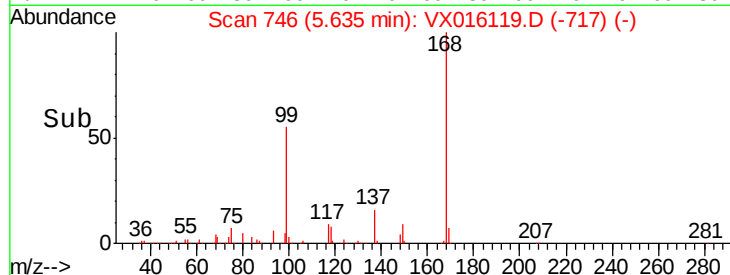
121 0.0 25.7 38.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.202 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.07 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

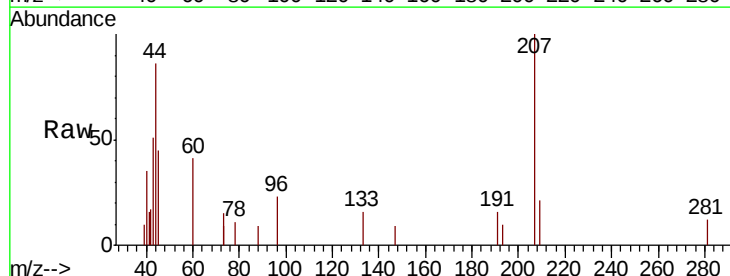
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 657.9 25.3 37.9#

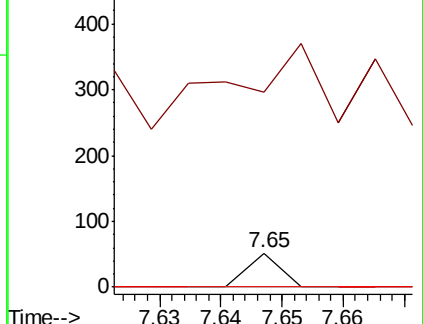
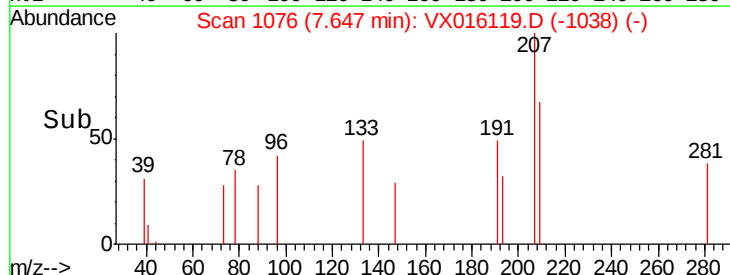
58 0.0 55.9 83.9#

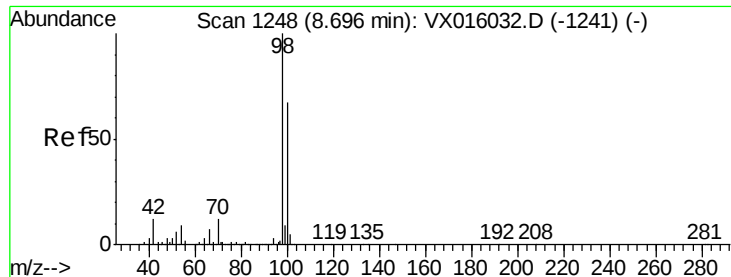


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.671 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

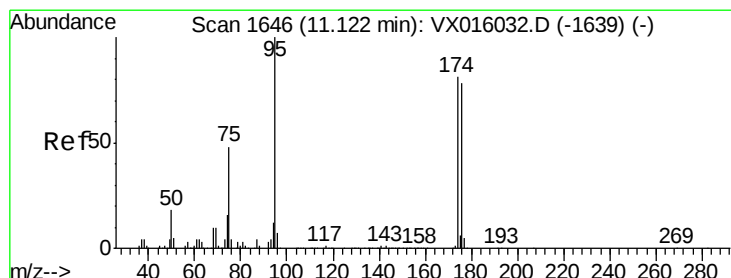
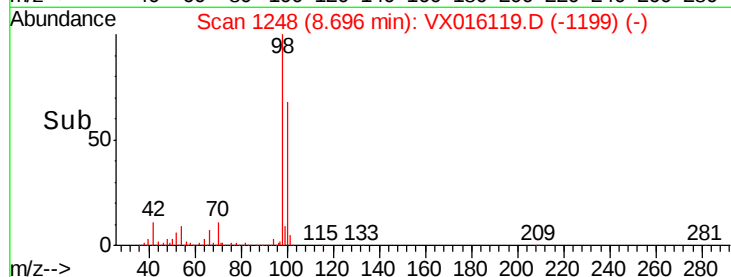
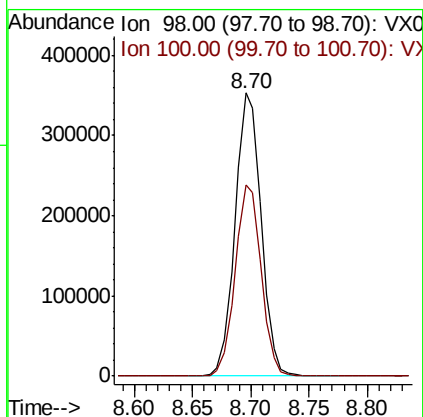
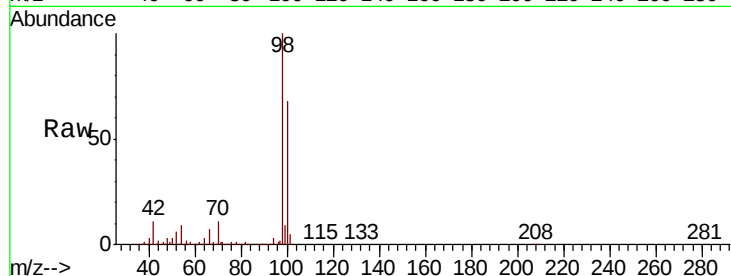
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 98 Resp: 550952

Ion Ratio Lower Upper

98 100

100 67.4 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 52.066 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

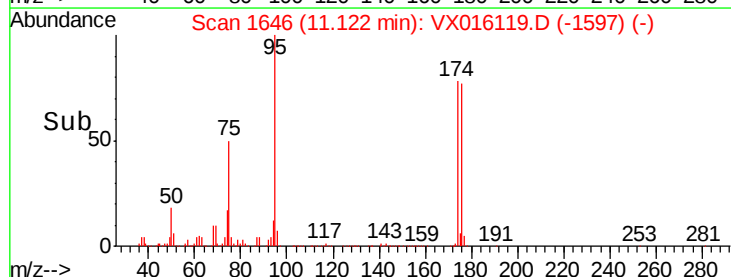
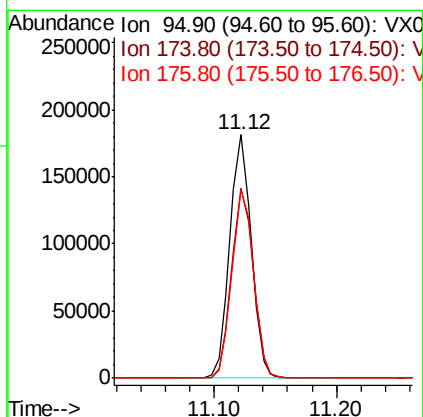
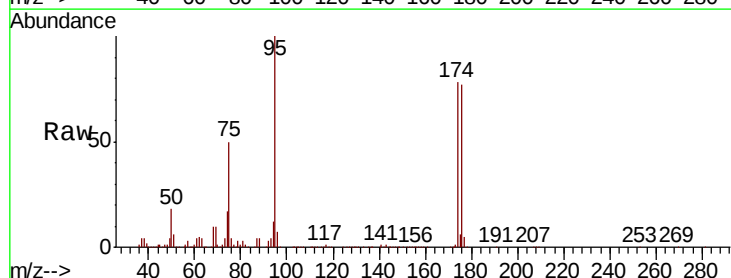
Tgt Ion: 95 Resp: 219661

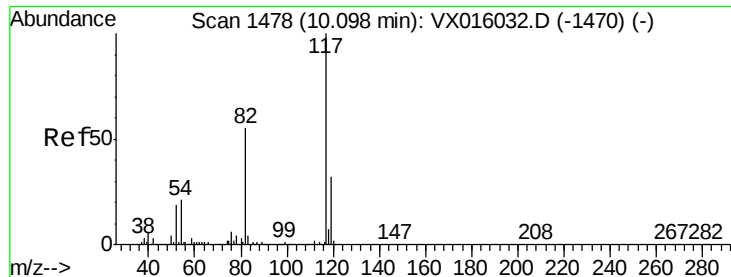
Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.4

176 77.9 0.0 157.6

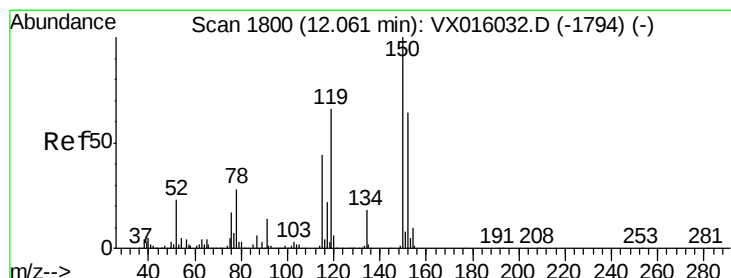
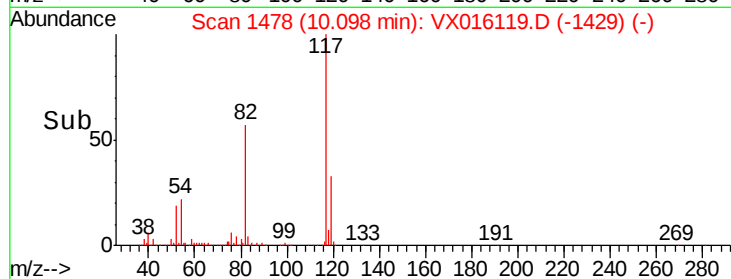
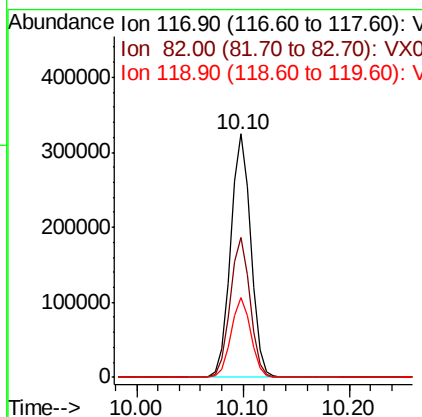
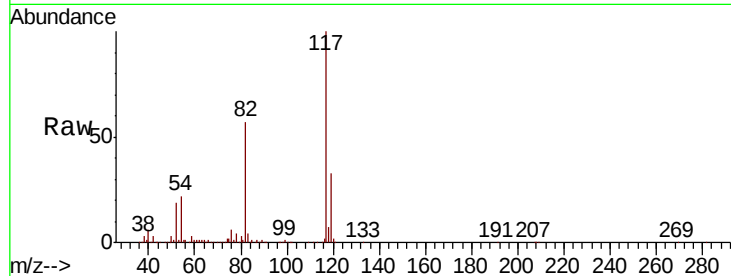




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016119.D  
Acq: 08 May 2020 14:33

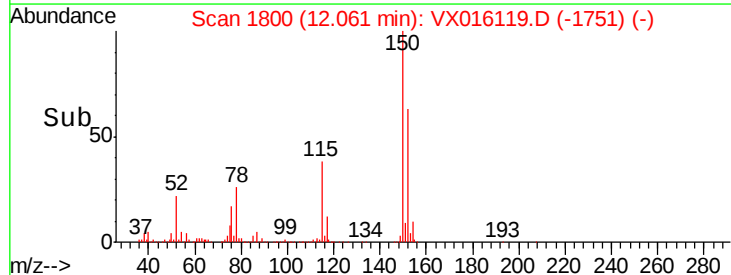
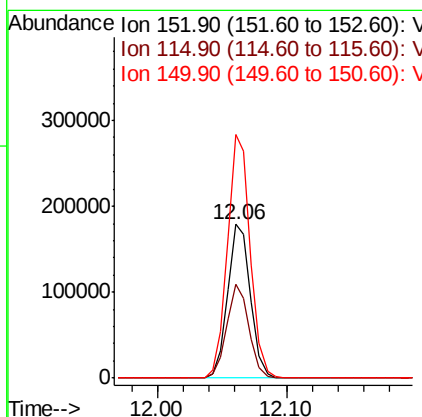
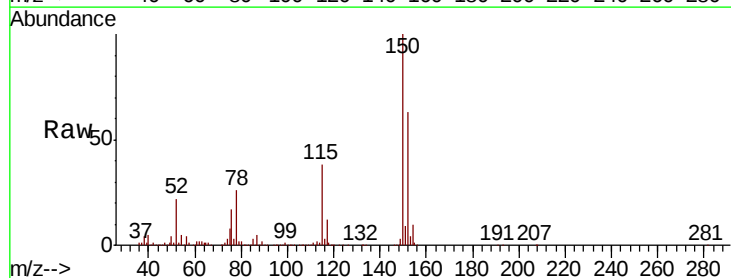
Instrument :  
MSVOA\_X  
ClientSampleId :

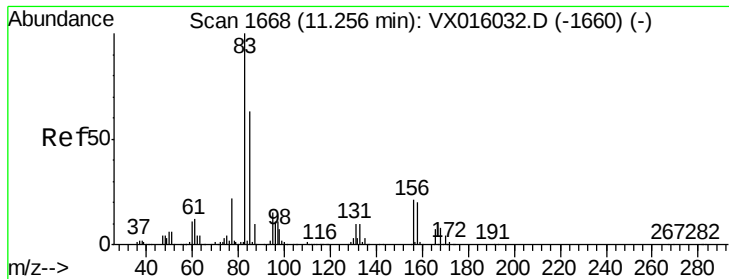
Tot Ion:117 Resp: 432801  
Ion Ratio Lower Upper  
117 100  
82 57.4 44.4 66.6  
119 32.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016119.D  
Acq: 08 May 2020 14:33

Tgt Ion:152 Resp: 222640  
Ion Ratio Lower Upper  
152 100  
115 59.1 41.3 124.1  
150 157.7 0.0 352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.110 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

Instrument :

MSVOA\_X

ClientSampled :

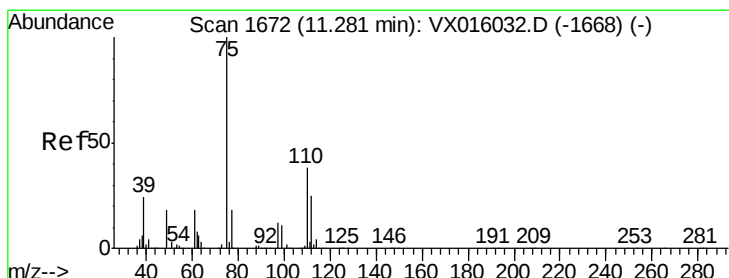
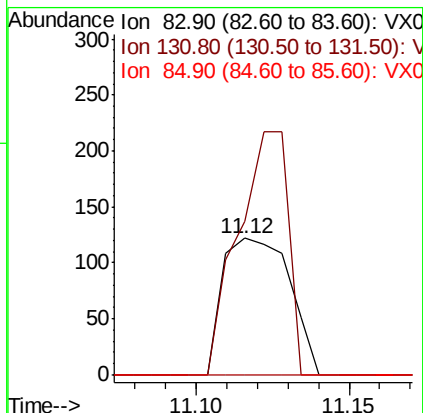
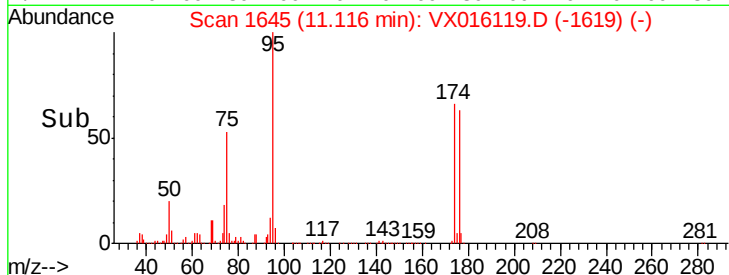
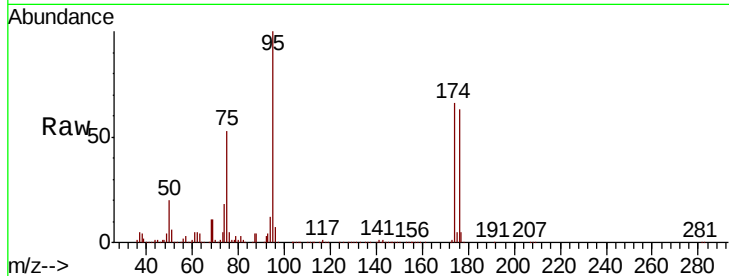
Tot Ion: 83 Resp: 185

Ion Ratio Lower Upper

83 100

131 133.5 5.1 15.4#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 22.238 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016119.D

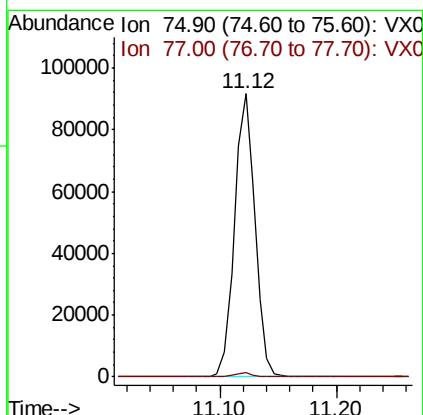
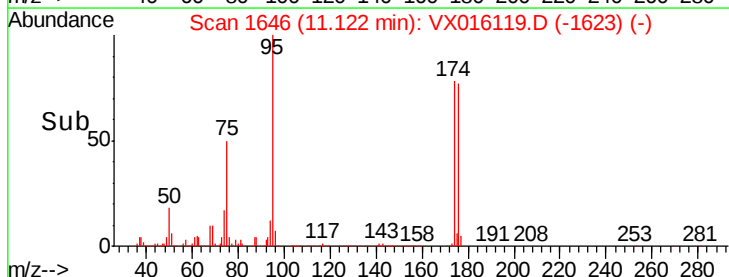
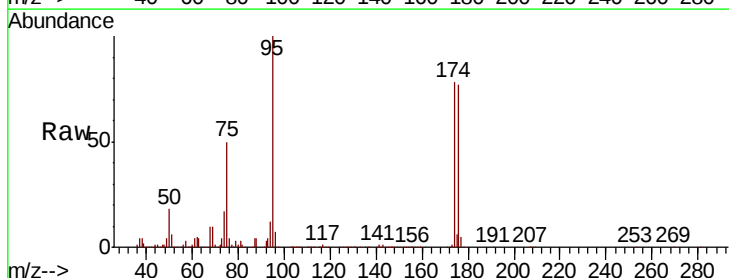
Acq: 08 May 2020 14:33

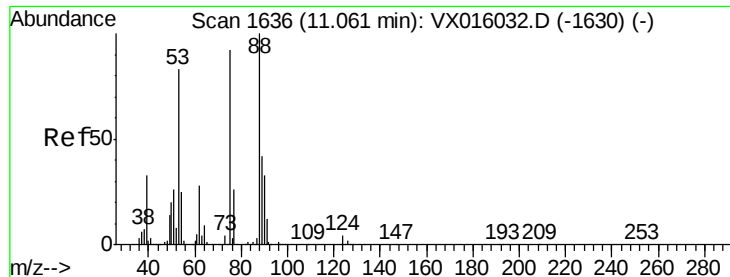
Tgt Ion: 75 Resp: 112350

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 52.994 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

Instrument :

MSVOA\_X

ClientSampleId :

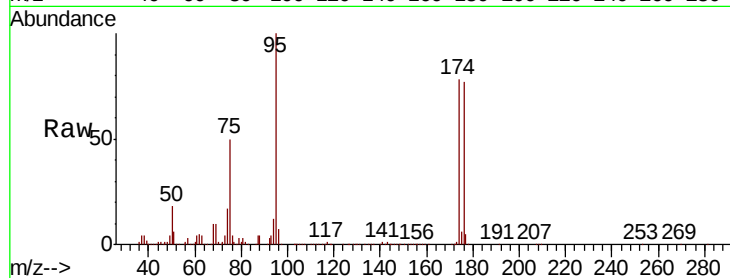
Tot Ion: 75 Resp: 112350

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

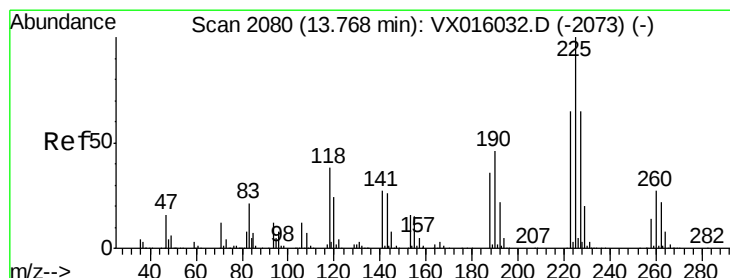
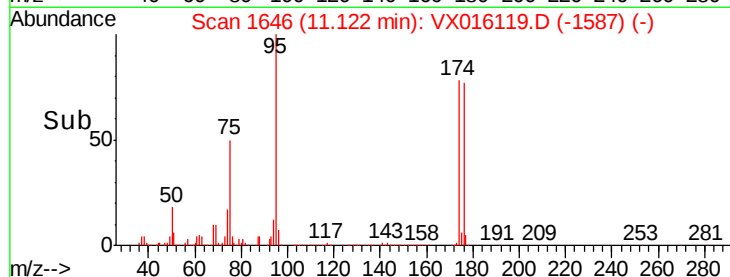
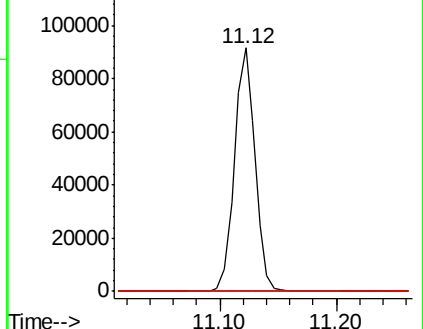
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#94

Hexachlorobutadiene

Concen: 0.618 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016119.D

Acq: 08 May 2020 14:33

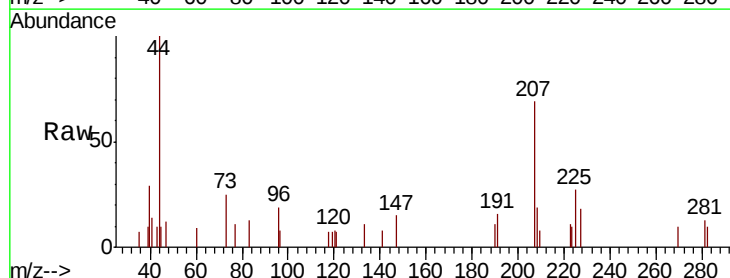
Tgt Ion: 225 Resp: 221

Ion Ratio Lower Upper

225 100

223 76.5 32.3 96.9

227 67.9 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

