

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051520\  
 Data File : VX016275.D  
 Acq On : 15 May 2020 13:09  
 Operator : JC/SP  
 Sample : L2669-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 16 06:41:37 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      | 5.63  | 168  | 256836   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 423813   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 415390   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 211190   | 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   | 157740   | 46.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.34%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 124795   | 46.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.96%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 525375   | 50.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.56% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 207666   | 52.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.54% |          |

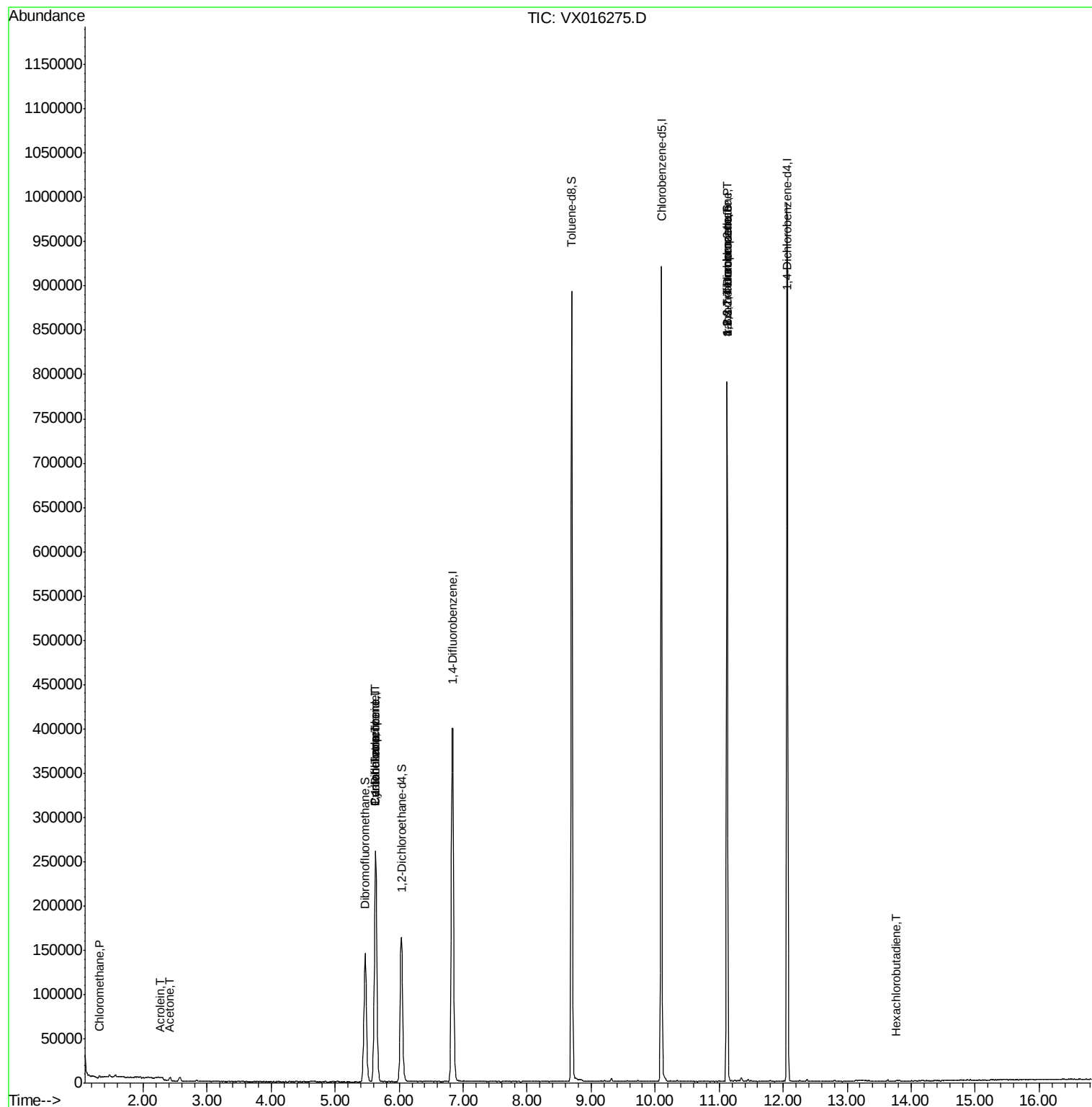
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1267     | 0.401     | ug/l   | 95     |
| 13) Acrolein                   | 2.27  | 56   | 652      | 1.219     | ug/l # | 59     |
| 16) Acetone                    | 2.42  | 43   | 5409     | 3.587     | ug/l   | 92     |
| 17) Carbon Disulfide           | 2.55  | 76   | 1461     | Below Cal | #      | 78     |
| 31) Cyclohexane                | 5.62  | 56   | 4919     | 1.048     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 18699    | 4.482     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 25113    | 5.922     | ug/l # | 13     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.12 | 83   | 176      | 2.110     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 102337   | 21.354    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 102337   | 50.888    | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.76 | 225  | 132      | 0.583     | ug/l   | 71     |

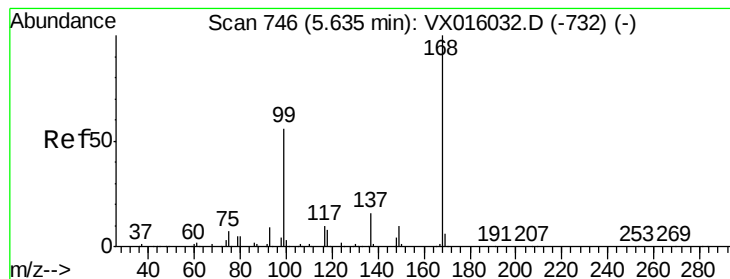
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051520\  
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Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: May 16 06:41:37 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: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016275.D

Acq: 15 May 2020 13:09

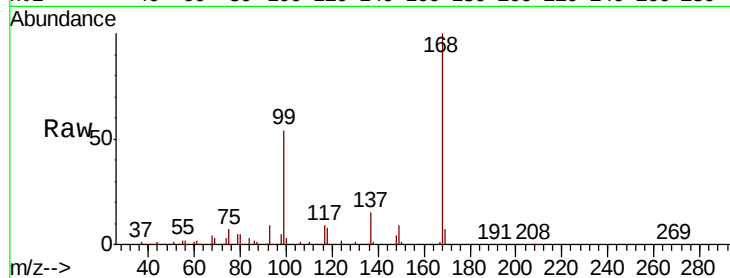
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:168 Resp: 256836

Ion Ratio Lower Upper

168 100

99 54.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

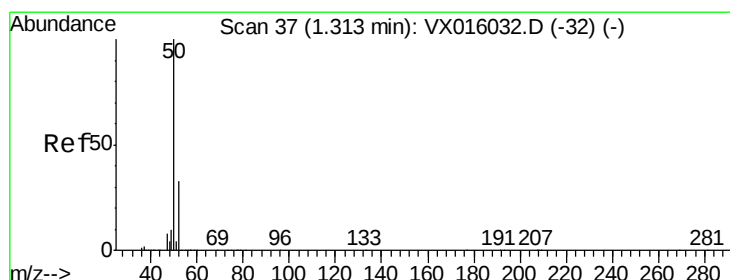
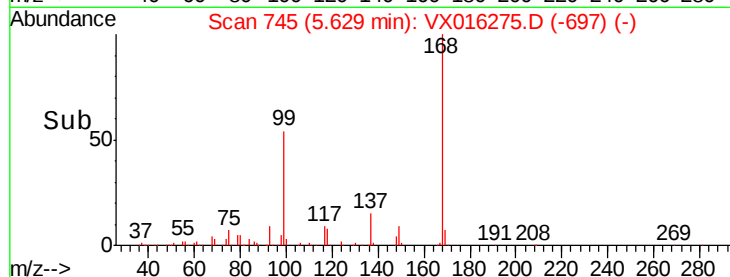
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.401 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016275.D

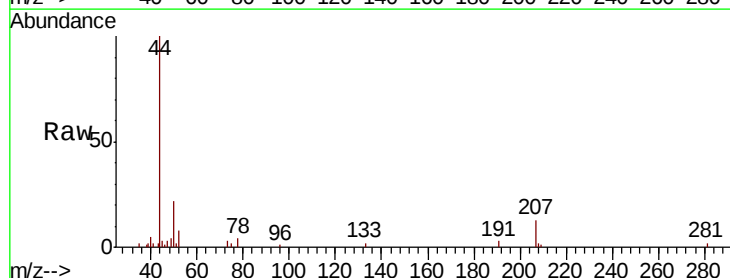
Acq: 15 May 2020 13:09

Tgt Ion: 50 Resp: 1267

Ion Ratio Lower Upper

50 100

52 35.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1000

800

600

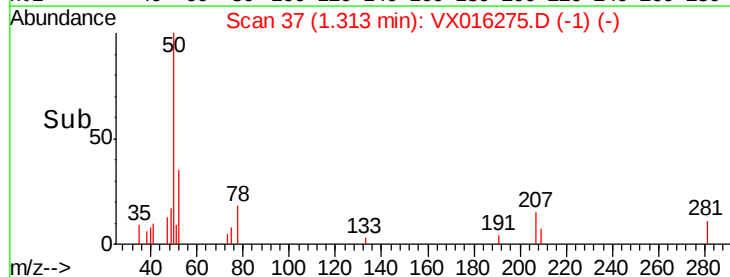
400

200

0

Time-->

1.25 1.30 1.35





#13

Acrolein

Concen: 1.219 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016275.D

Acq: 15 May 2020 13:09

Instrument :

MSVOA\_X

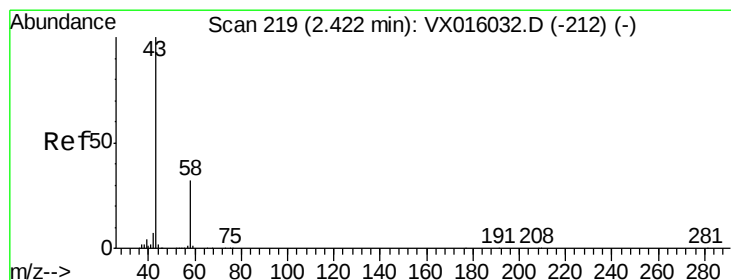
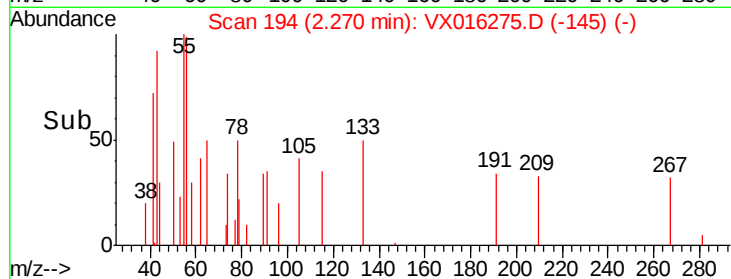
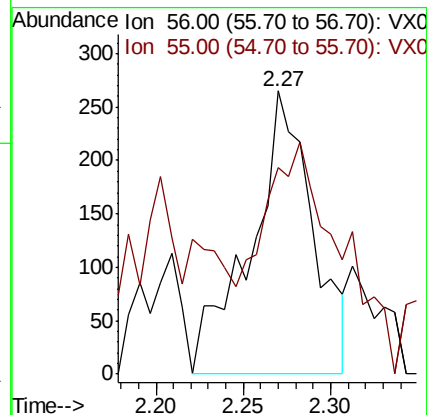
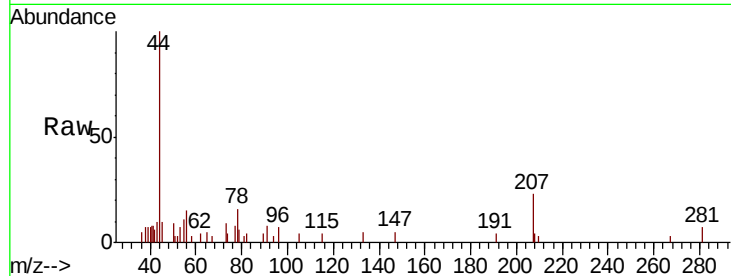
ClientSampled :

Tot Ion: 56 Resp: 652

Ion Ratio Lower Upper

56 100

55 104.4 56.5 84.7#



#16

Acetone

Concen: 3.587 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016275.D

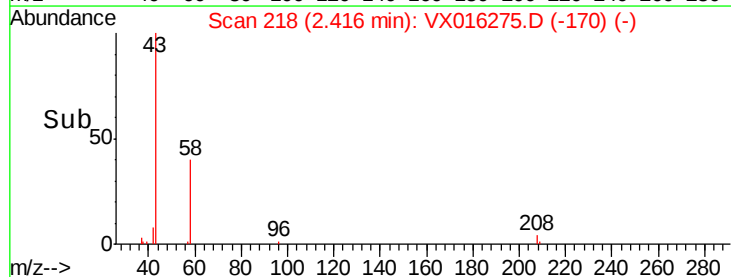
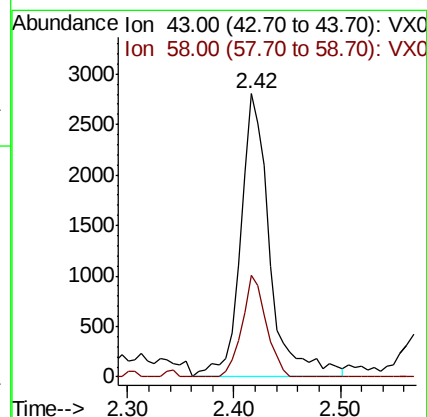
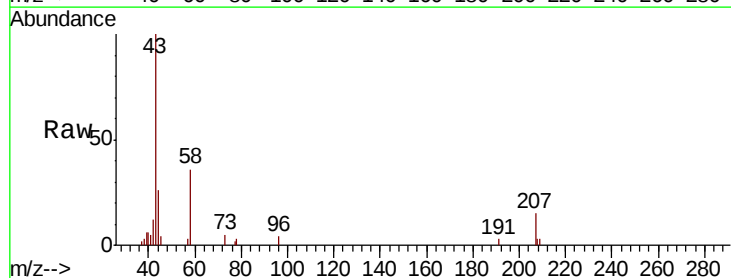
Acq: 15 May 2020 13:09

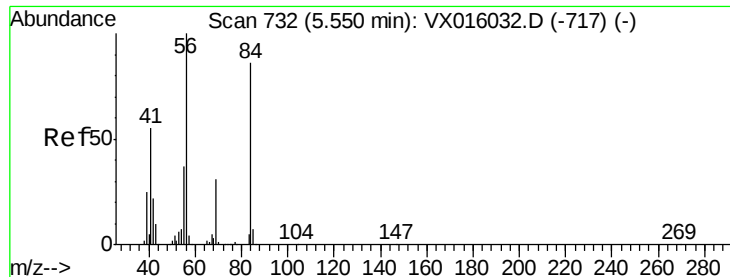
Tgt Ion: 43 Resp: 5409

Ion Ratio Lower Upper

43 100

58 35.9 25.4 38.0

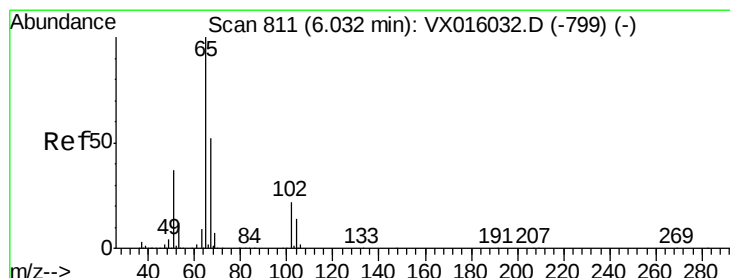
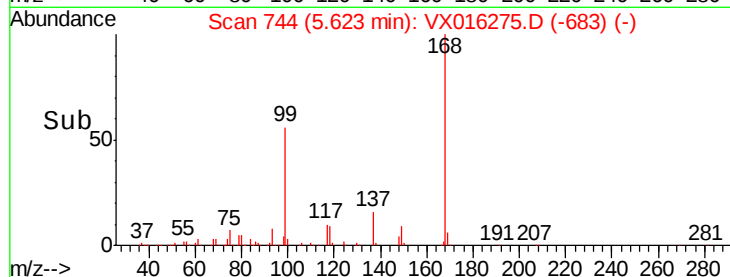
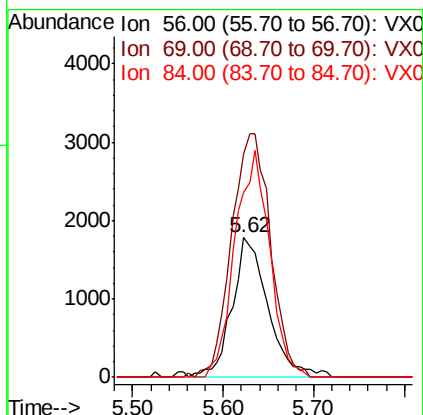
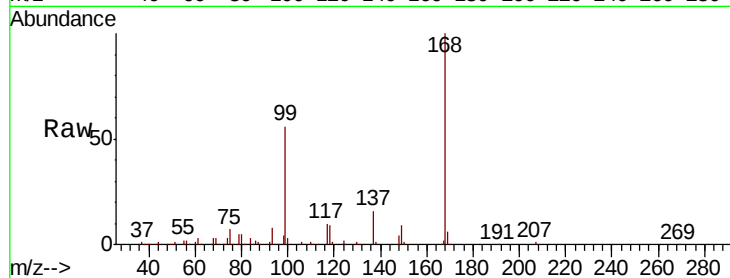




#31  
Cyclohexane  
Concen: 1.048 ug/l  
RT: 5.62 min Scan# 744  
Delta R.T. 0.07 min  
Lab File: VX016275.D  
Acq: 15 May 2020 13:09

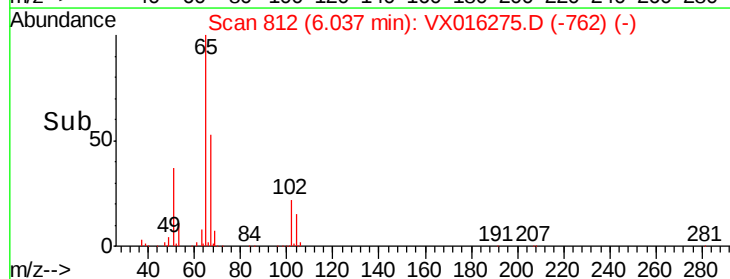
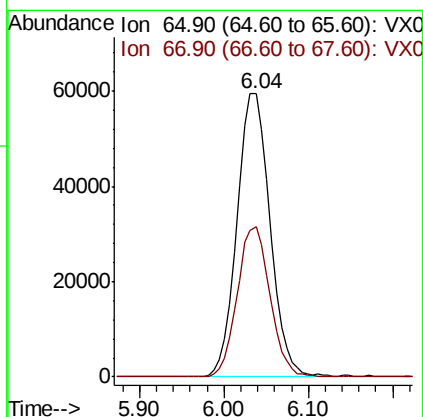
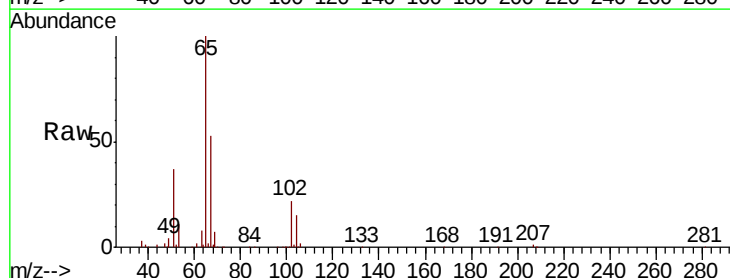
Instrument :  
MSVOA\_X  
ClientSampleId :

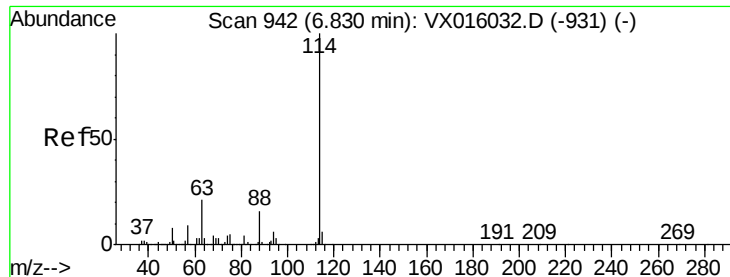
Tot Ion: 56 Resp: 4919  
Ion Ratio Lower Upper  
56 100  
69 160.3 25.0 37.6#  
84 132.3 69.0 103.6#



#33  
1,2-Dichloroethane-d4  
Concen: 46.673 ug/l  
RT: 6.04 min Scan# 812  
Delta R.T. 0.01 min  
Lab File: VX016275.D  
Acq: 15 May 2020 13:09

Tgt Ion: 65 Resp: 157740  
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: VX016275.D

Acq: 15 May 2020 13:09

Instrument :

MSVOA\_X

ClientSampleId :

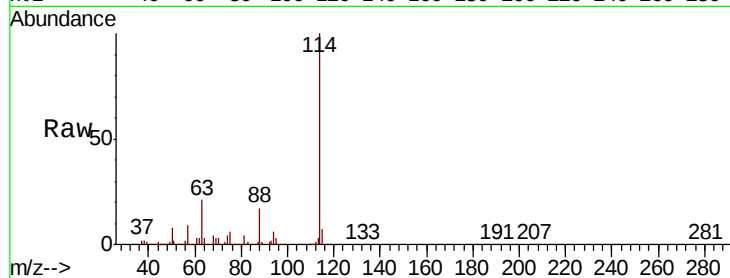
Tot Ion:114 Resp: 423813

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

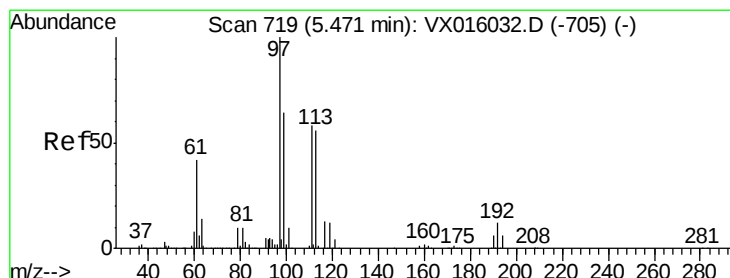
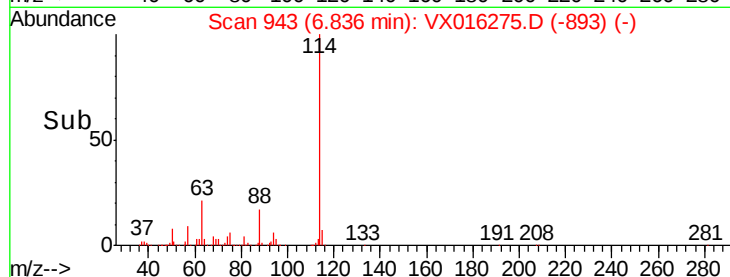
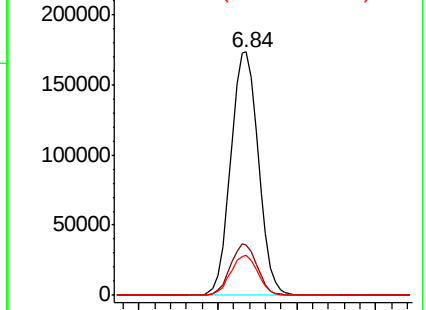
88 16.6 0.0 31.4



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: 46.478 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016275.D

Acq: 15 May 2020 13:09

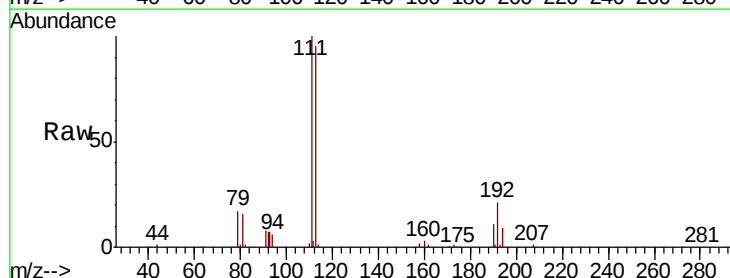
Tgt Ion:113 Resp: 124795

Ion Ratio Lower Upper

113 100

111 102.7 81.6 122.4

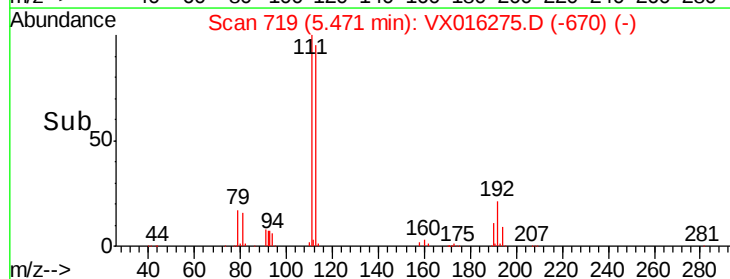
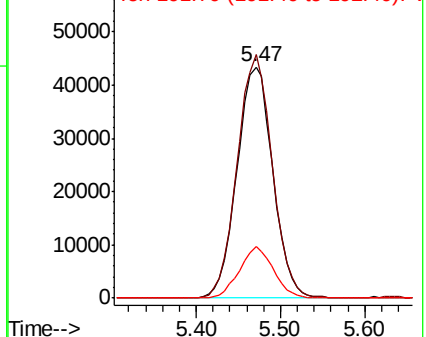
192 21.1 17.0 25.4

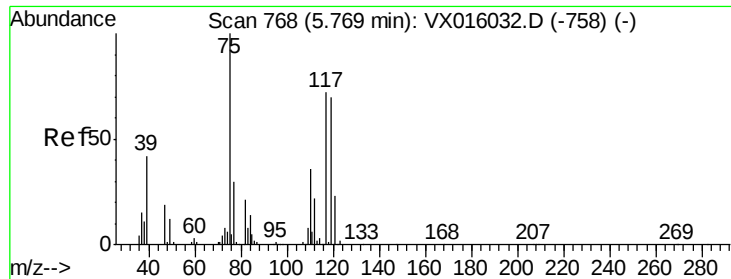


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

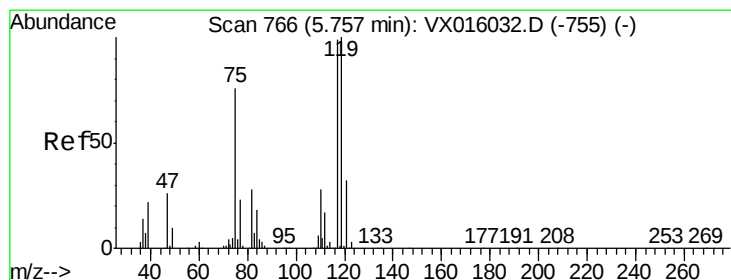
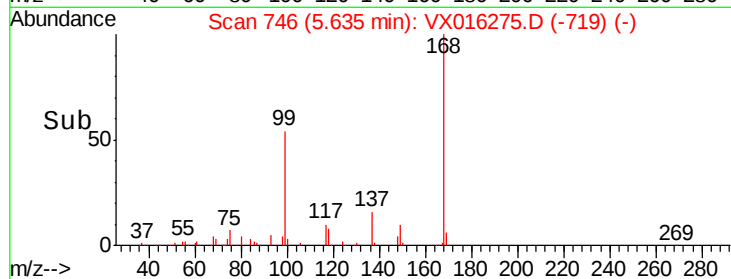
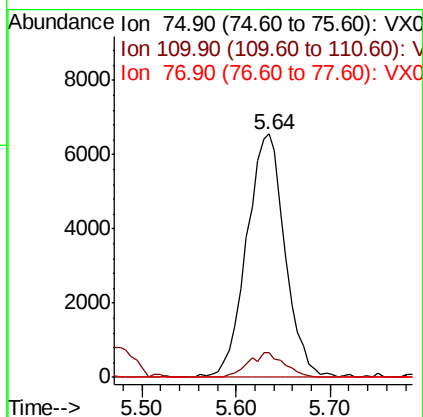
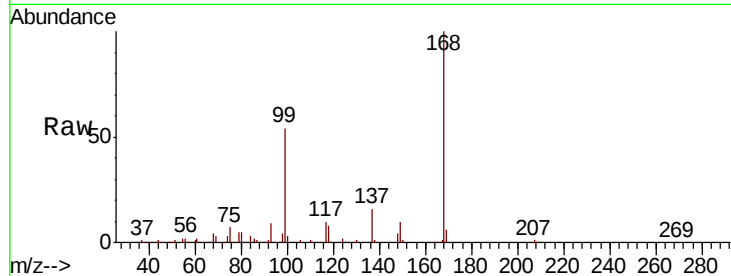




#36  
 1,1-Dichloropropene  
 Concen: 4.482 ug/l  
 RT: 5.64 min Scan# 746  
 Delta R.T. -0.13 min  
 Lab File: VX016275.D  
 Acq: 15 May 2020 13:09

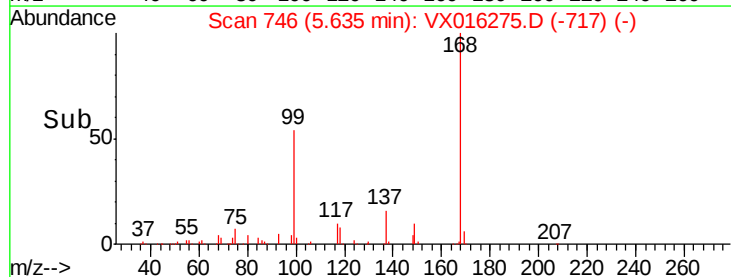
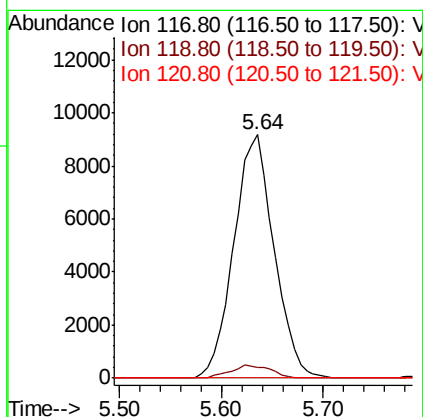
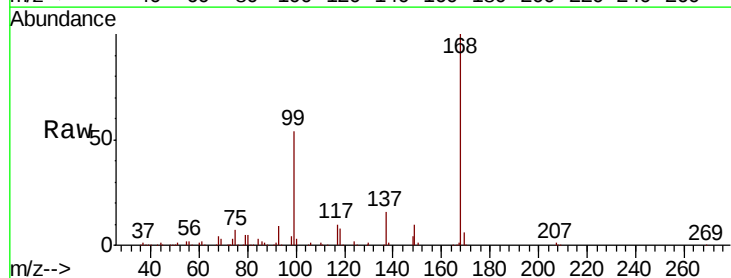
Instrument :  
 MSVOA\_X  
 ClientSampled :

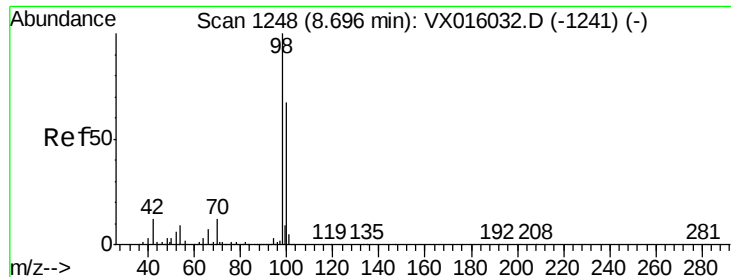
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.5   | 18.1  | 54.1# |
| 77      | 0.0   | 25.0  | 37.6# |



#38  
 Carbon Tetrachloride  
 Concen: 5.922 ug/l  
 RT: 5.64 min Scan# 746  
 Delta R.T. -0.12 min  
 Lab File: VX016275.D  
 Acq: 15 May 2020 13:09

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.4   | 80.3  | 120.5# |
| 121     | 0.0   | 25.7  | 38.5#  |

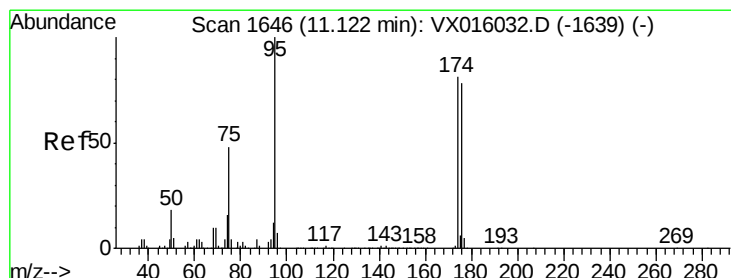
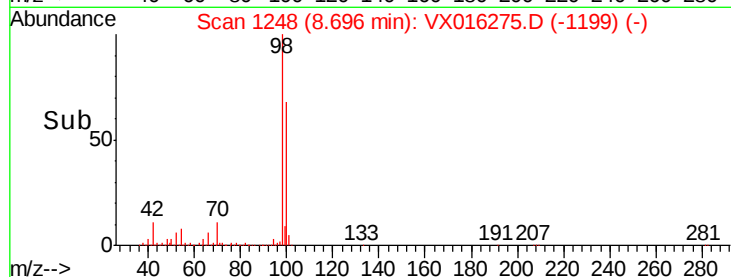
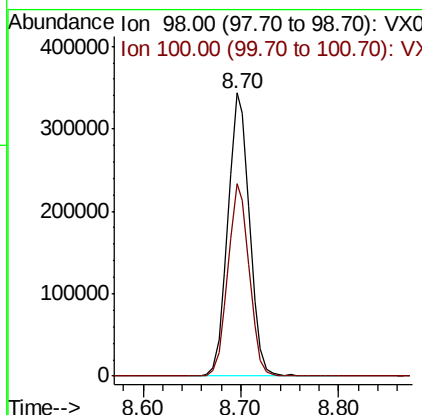
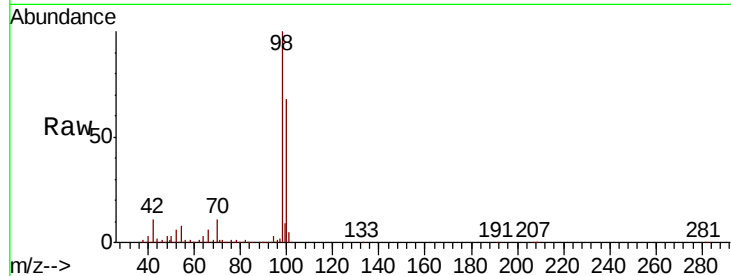




#50  
Toluene-d8  
Concen: 50.782 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX016275.D  
Acq: 15 May 2020 13:09

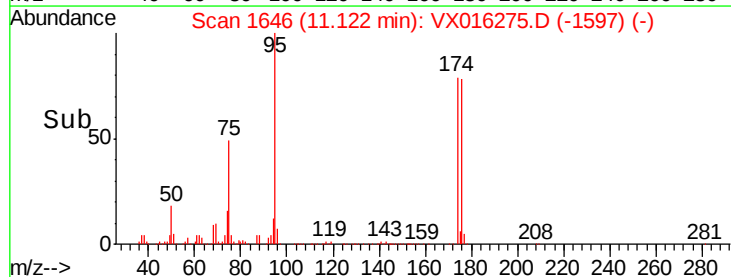
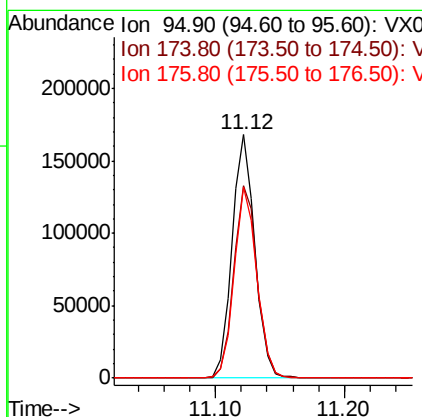
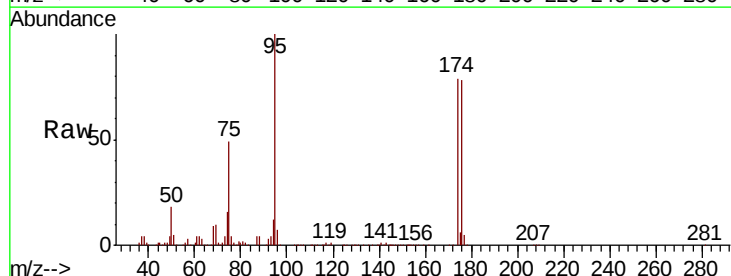
Instrument :  
MSVOA\_X  
ClientSampleId :

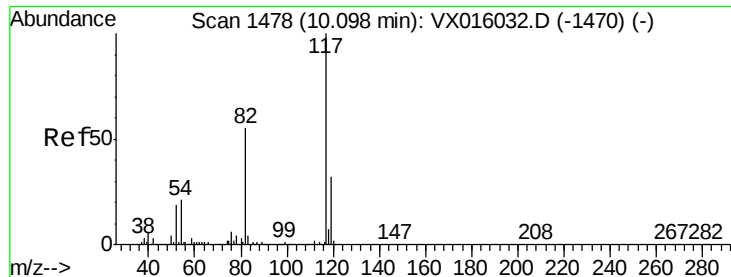
Tot Ion: 98 Resp: 525375  
Ion Ratio Lower Upper  
98 100  
100 67.3 53.7 80.5



#62  
4-Bromofluorobenzene  
Concen: 52.774 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX016275.D  
Acq: 15 May 2020 13:09

Tgt Ion: 95 Resp: 207666  
Ion Ratio Lower Upper  
95 100  
174 80.9 0.0 159.4  
176 78.1 0.0 157.6

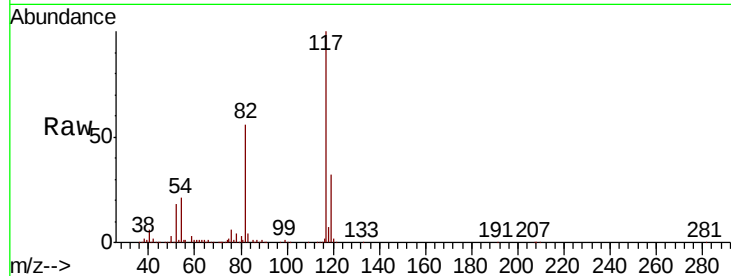




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016275.D  
Acq: 15 May 2020 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.6  | 44.4  | 66.6  |
| 119     | 31.8  | 25.5  | 38.3  |

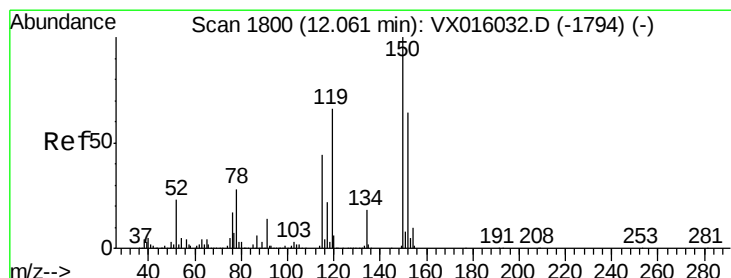
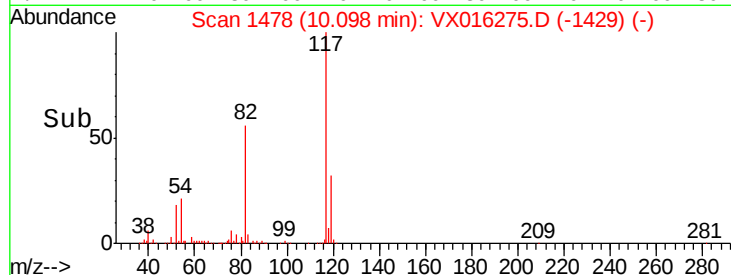
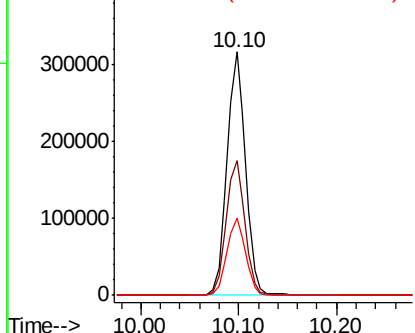


Abundance

Ion 116.90 (116.60 to 117.60): V

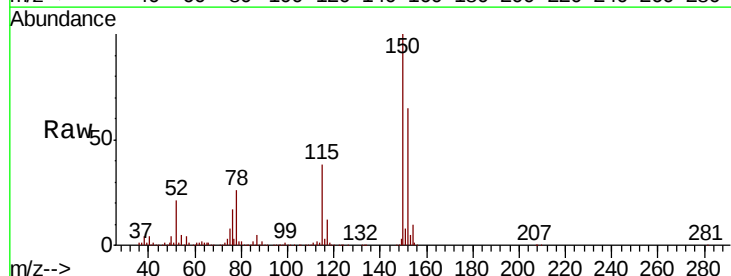
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016275.D  
Acq: 15 May 2020 13:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.9  | 41.3  | 124.1 |
| 150     | 156.9 | 0.0   | 352.2 |

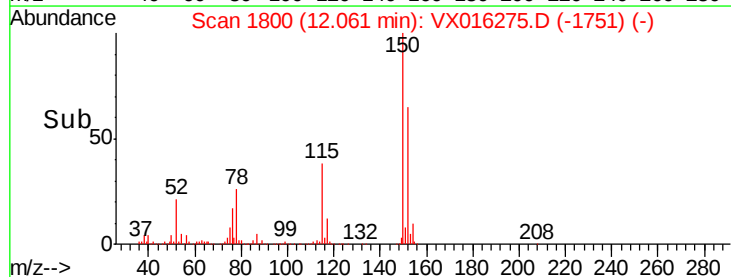
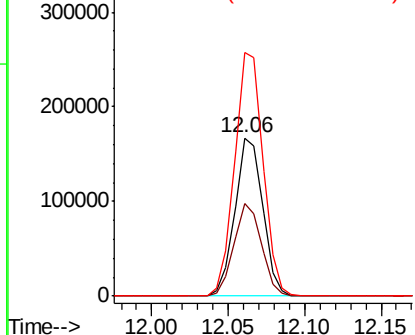


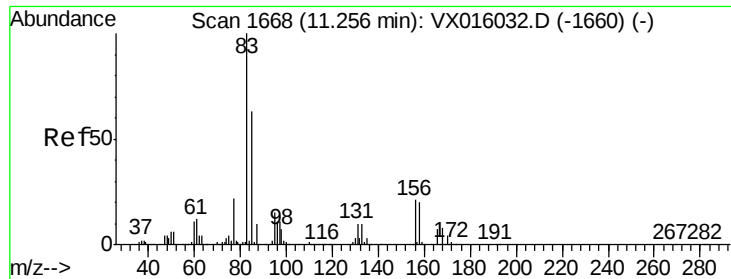
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#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: VX016275.D

Acq: 15 May 2020 13:09

Instrument :

MSVOA\_X

ClientSampleId :

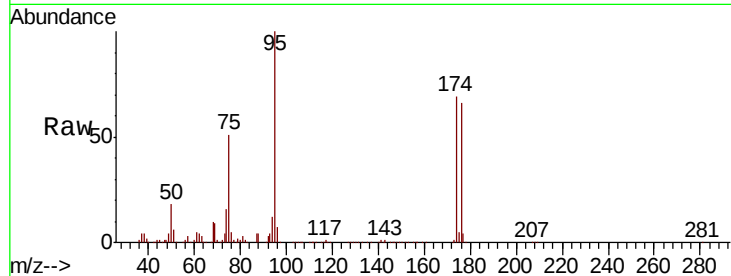
Tot Ion: 83 Resp: 176

Ion Ratio Lower Upper

83 100

131 146.0 5.1 15.4#

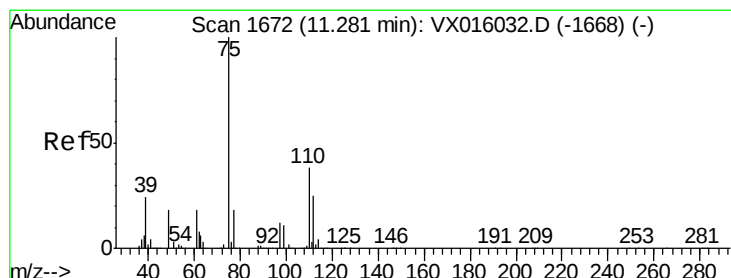
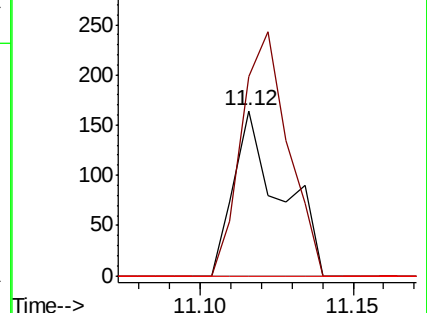
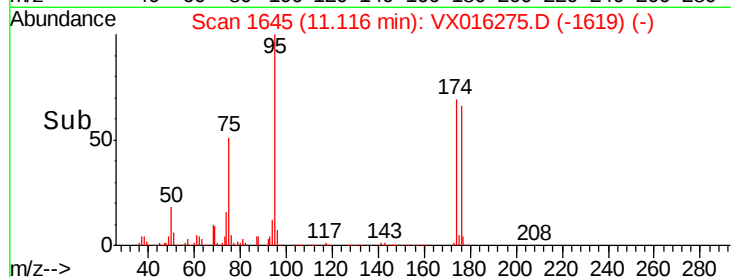
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.354 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016275.D

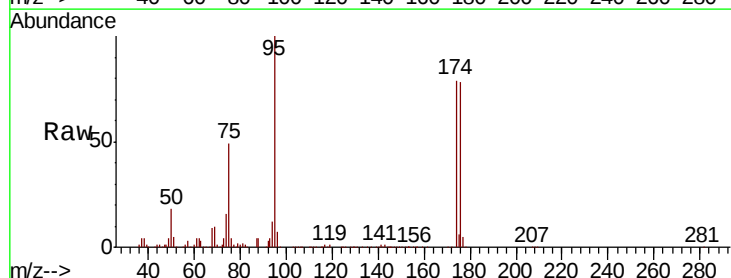
Acq: 15 May 2020 13:09

Tgt Ion: 75 Resp: 102337

Ion Ratio Lower Upper

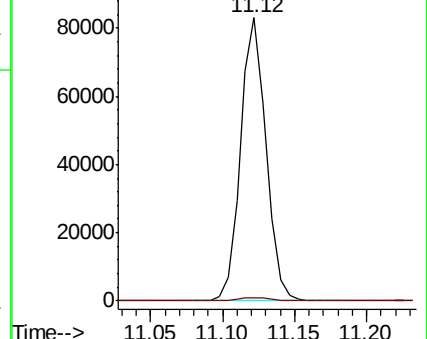
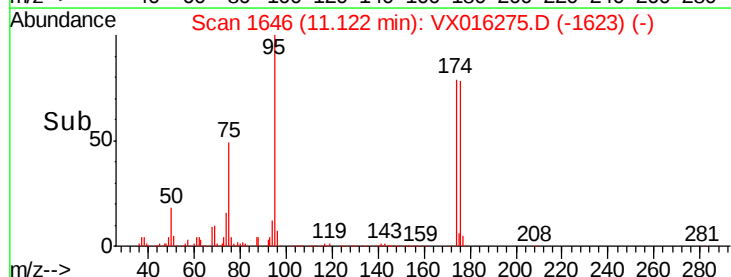
75 100

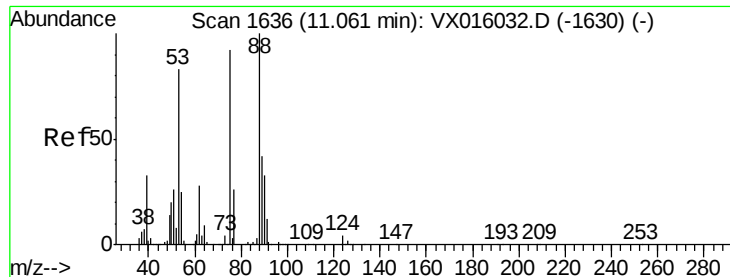
77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 50.888 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016275.D

Acq: 15 May 2020 13:09

Instrument :

MSVOA\_X

ClientSampled :

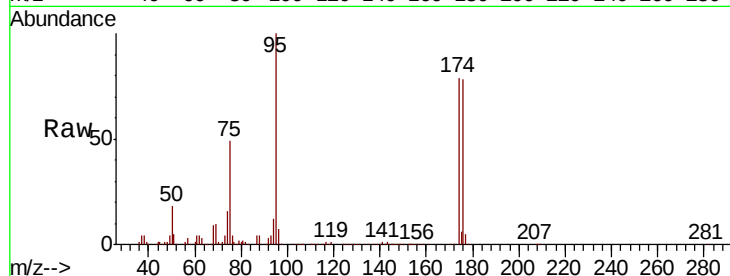
Tot Ion: 75 Resp: 102337

Ion Ratio Lower Upper

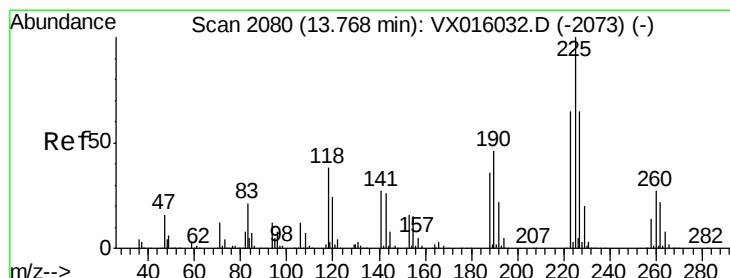
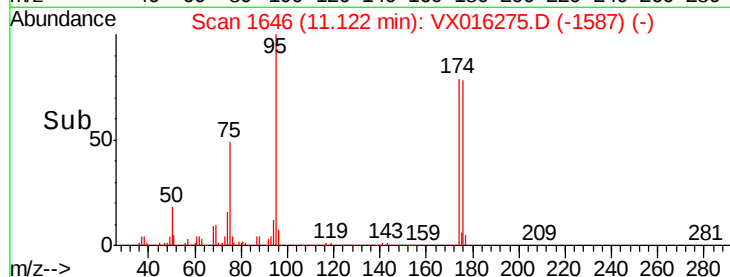
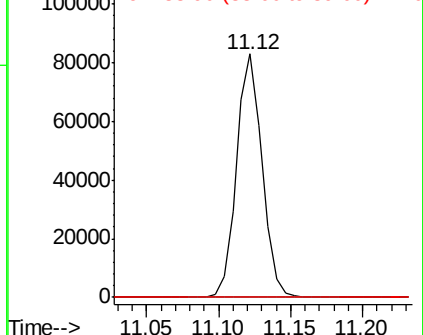
75 100

53 0.0 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: 0.583 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016275.D

Acq: 15 May 2020 13:09

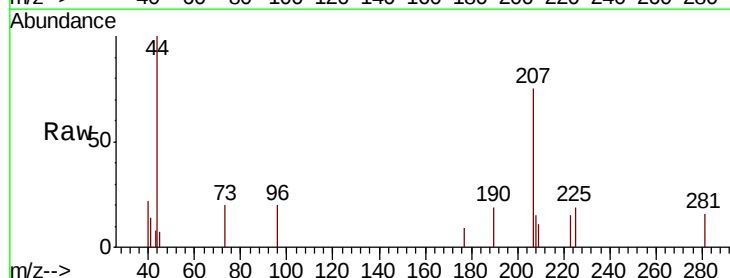
Tgt Ion: 225 Resp: 132

Ion Ratio Lower Upper

225 100

223 46.2 32.3 96.9

227 37.1 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

