

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082120\  
 Data File : VX018057.D  
 Acq On : 21 Aug 2020 14:36  
 Operator : JC/SP  
 Sample : L3692-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE BLANK-SAMPLEMANAG

Quant Time: Aug 21 23:53:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 594680   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 977623   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 917575   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 423220   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 399831   | 48.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.86% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 320033   | 48.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.14% |          |
| 50) Toluene-d8              | 8.70  | 98   | 1170723  | 47.21 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.42% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 417074   | 42.75 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.50% |          |

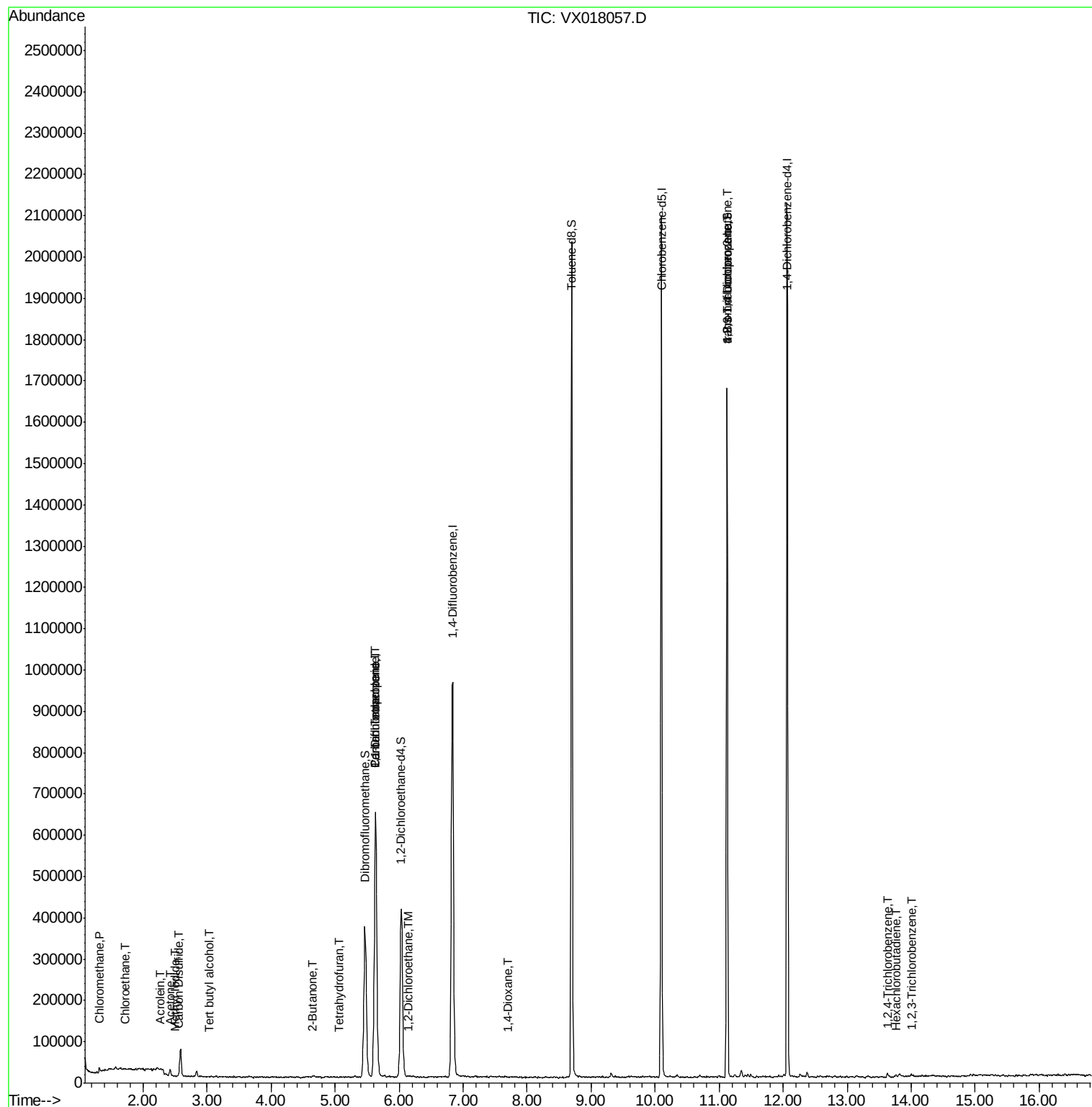
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 7332     | 0.961     | ug/l   | 94     |
| 6) Chloroethane                | 1.72  | 64   | 1154     | 0.283     | ug/l # | 49     |
| 10) Methyl Iodide              | 2.50  | 142  | 1352     | 5.488     | ug/l # | 93     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 863      | 0.538     | ug/l # | 35     |
| 13) Acrolein                   | 2.26  | 56   | 1542     | 2.317     | ug/l # | 57     |
| 16) Acetone                    | 2.42  | 43   | 17147    | 5.330     | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.55  | 76   | 4911     | 0.280     | ug/l   | 96     |
| 20) Methylene Chloride         | 2.84  | 84   | 6577     | Below Cal | #      | 82     |
| 25) 2-Butanone                 | 4.64  | 43   | 1243     | 0.235     | ug/l   | 92     |
| 29) Tetrahydrofuran            | 5.07  | 42   | 1272     | 0.378     | ug/l # | 67     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 46289    | 5.133     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 61600    | 6.062     | ug/l # | 16     |
| 42) 1,2-Dichloroethane         | 6.15  | 62   | 2666     | 0.263     | ug/l   | 92     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 126      | 0.826     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 213054   | 22.630    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 213054   | 61.120    | ug/l # | 12     |
| 93) 1,2,4-Trichlorobenzene     | 13.62 | 180  | 2034     | 0.239     | ug/l   | 90     |
| 94) Hexachlorobutadiene        | 13.76 | 225  | 1134     | 0.338     | ug/l   | 77     |
| 96) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 1692     | 0.201     | ug/l   | 97     |

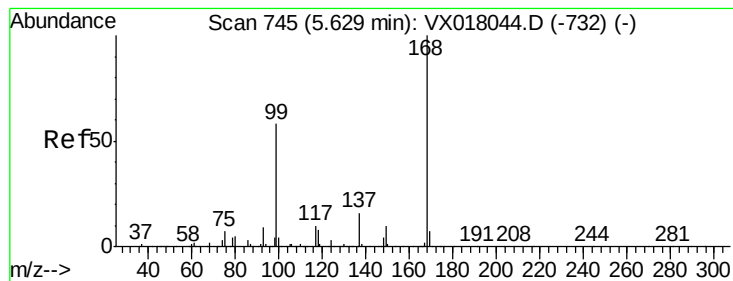
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082120\  
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STORAGEBLANK-SAMPLEMANAG

Quant Time: Aug 21 23:53:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

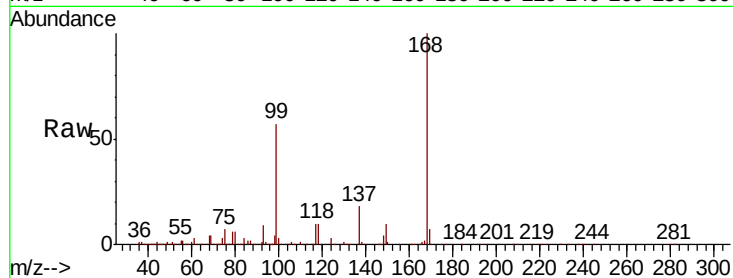
STORAGEBLANK-SAMPLEMANAG

Tot Ion:168 Resp: 594680

Ion Ratio Lower Upper

168 100

99 56.9 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

250000

200000

150000

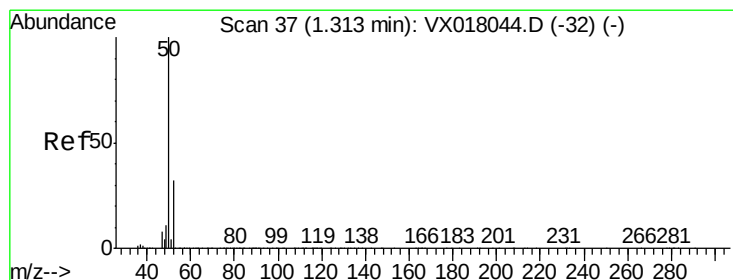
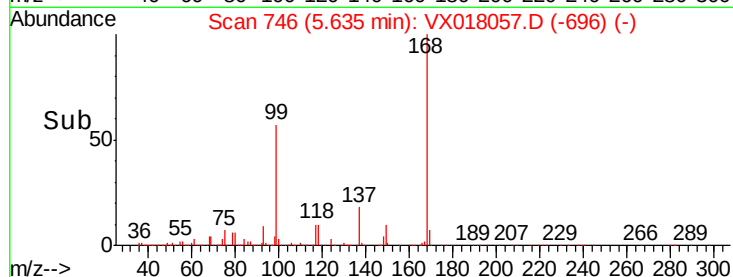
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.961 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX018057.D

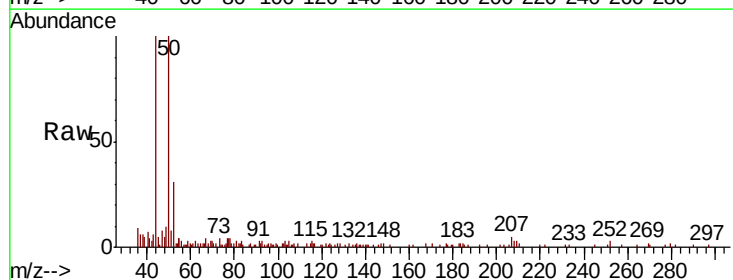
Acq: 21 Aug 2020 14:36

Tgt Ion: 50 Resp: 7332

Ion Ratio Lower Upper

50 100

52 28.6 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

8000

6000

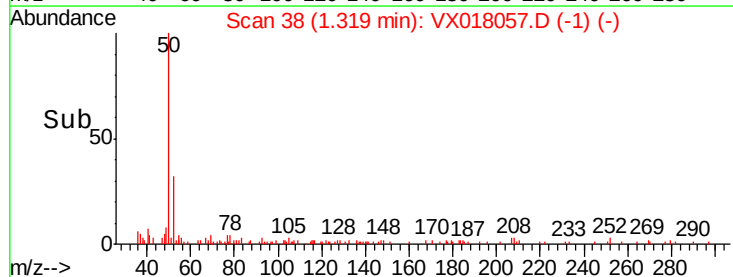
4000

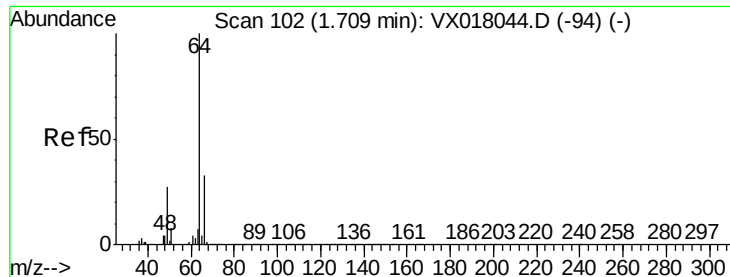
2000

0

Time-->

1.30 1.35





#6

Chloroethane

Concen: 0.283 ug/l

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

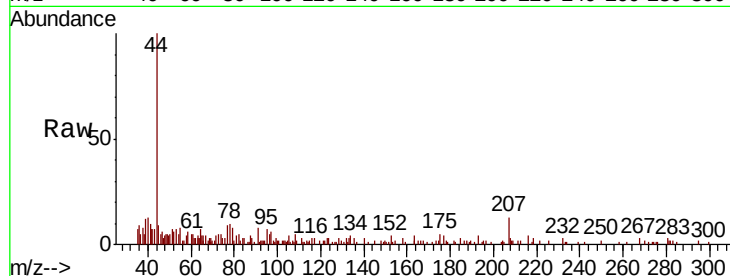
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 64 Resp: 1154

Ion Ratio Lower Upper

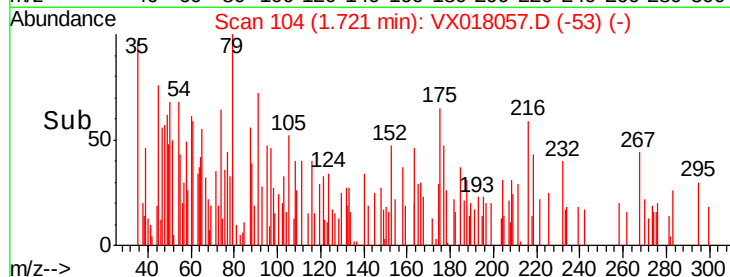
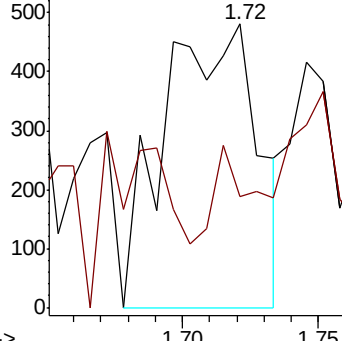
64 100

66 4.6 26.6 39.8#

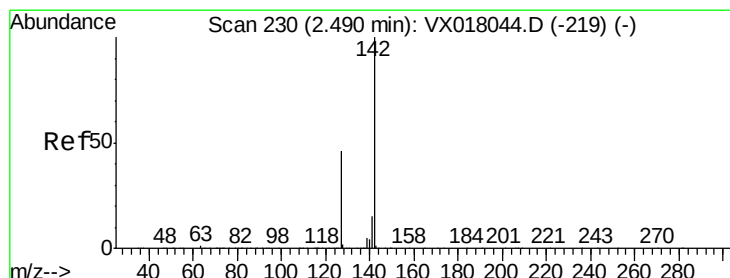


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#10

Methyl Iodide

Concen: 5.488 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

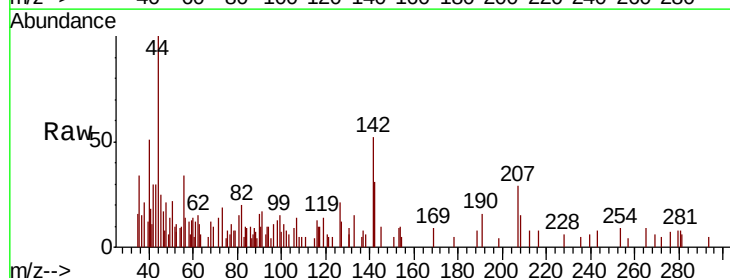
Tgt Ion: 142 Resp: 1352

Ion Ratio Lower Upper

142 100

127 48.1 37.0 55.6

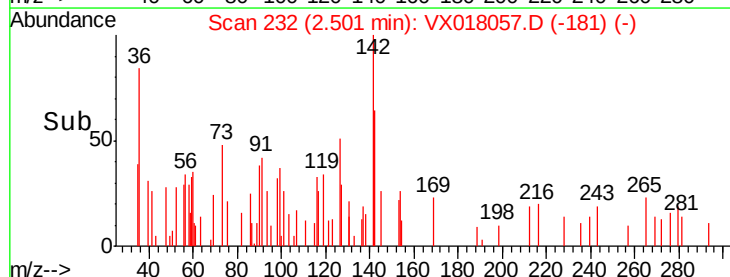
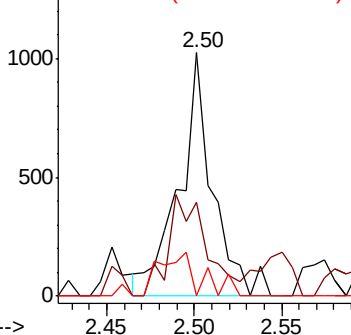
141 23.6 11.5 17.3#



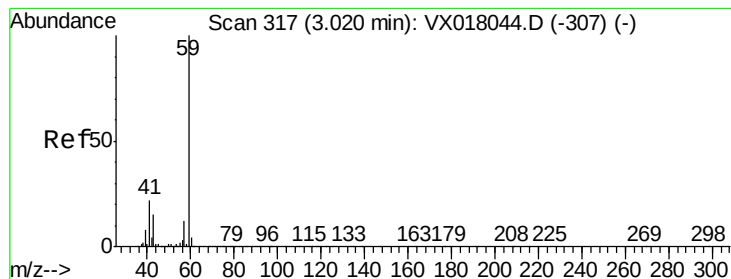
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

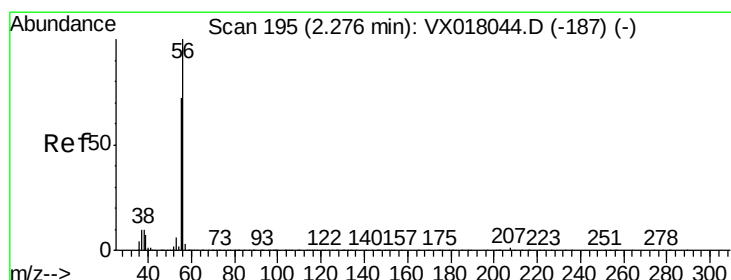
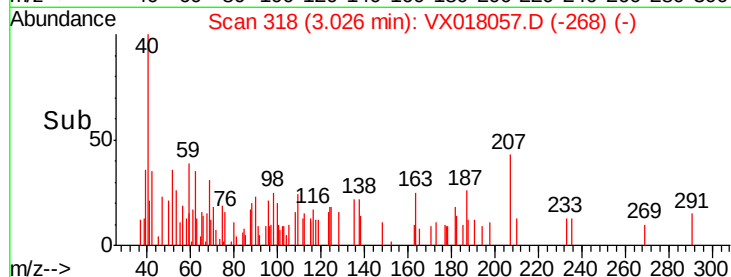
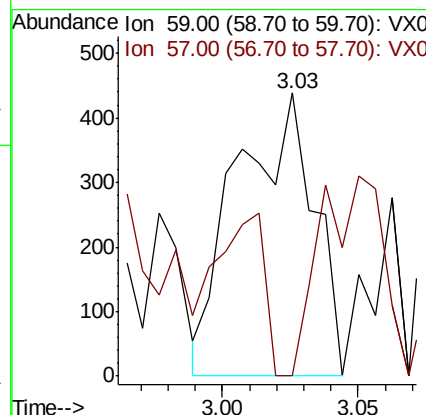
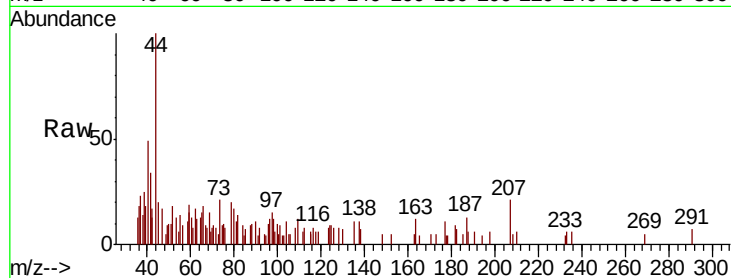


#11

Tert butyl alcohol  
 Concen: 0.538 ug/l  
 RT: 3.03 min Scan# 318  
 Delta R.T. 0.01 min  
 Lab File: VX018057.D  
 Acq: 21 Aug 2020 14:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGEBLANK-SAMPLEMANAG

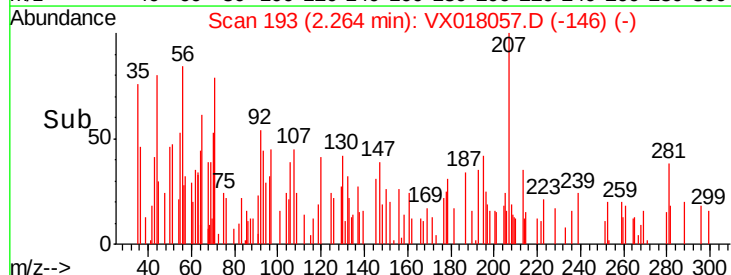
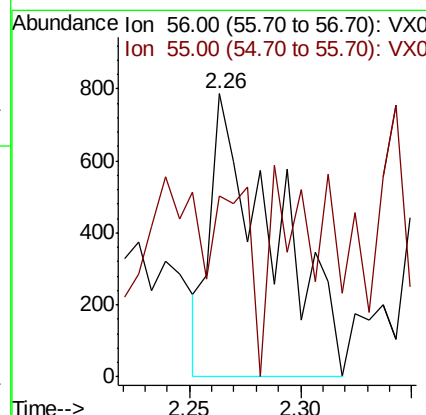
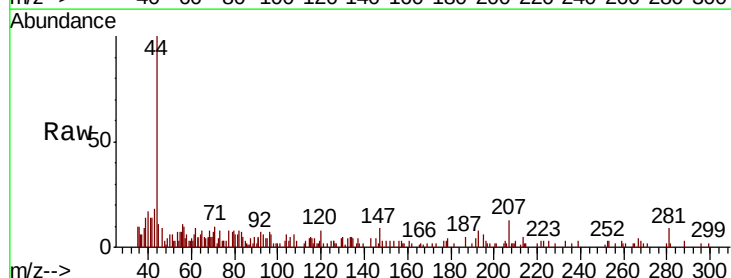
Tot Ion: 59 Resp: 863  
 Ion Ratio Lower Upper  
 59 100  
 57 35.9 8.9 13.3#

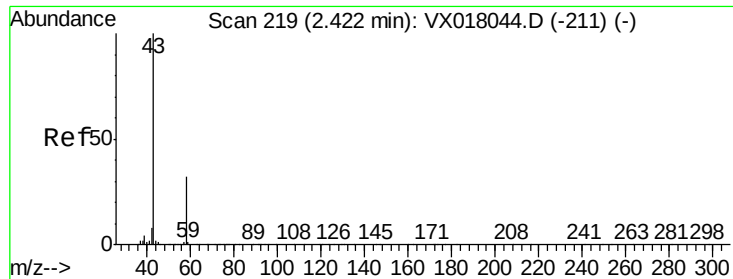


#13

Acrolein  
 Concen: 2.317 ug/l  
 RT: 2.26 min Scan# 193  
 Delta R.T. -0.01 min  
 Lab File: VX018057.D  
 Acq: 21 Aug 2020 14:36

Tgt Ion: 56 Resp: 1542  
 Ion Ratio Lower Upper  
 56 100  
 55 35.8 57.0 85.6#

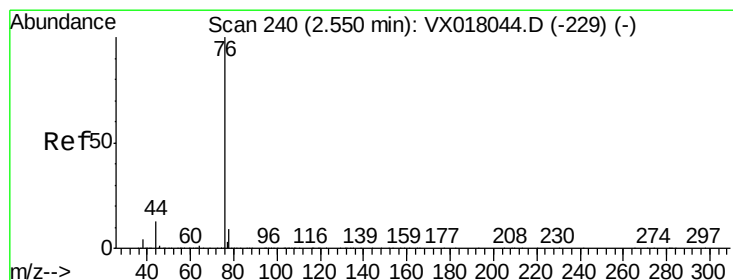
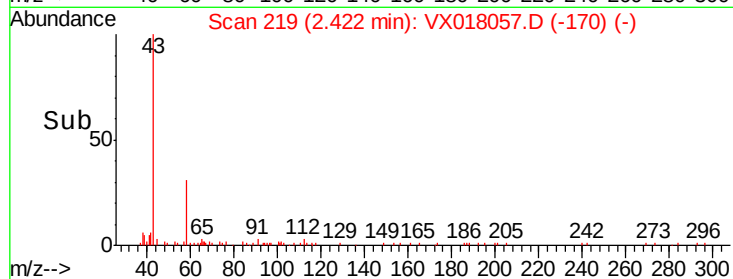
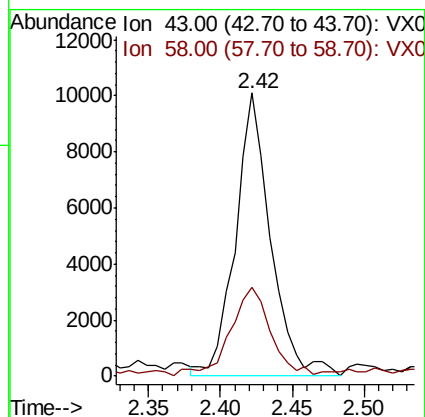
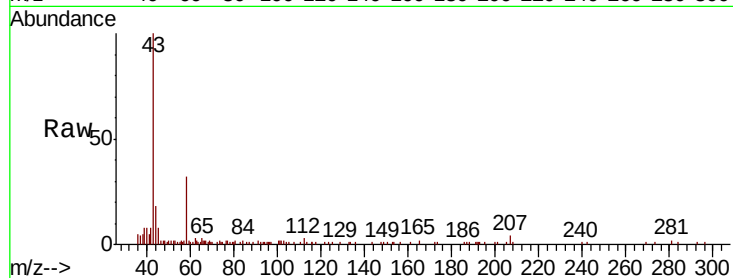




#16  
Acetone  
Concen: 5.330 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. -0.00 min  
Lab File: VX018057.D  
Acq: 21 Aug 2020 14:36

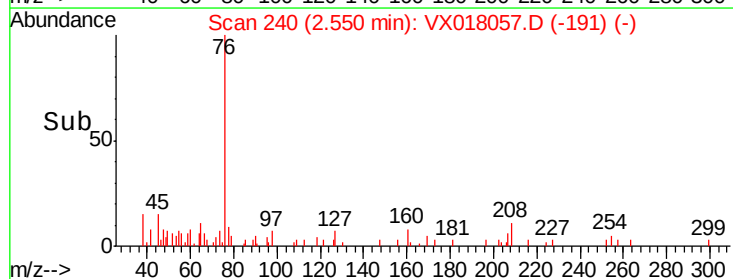
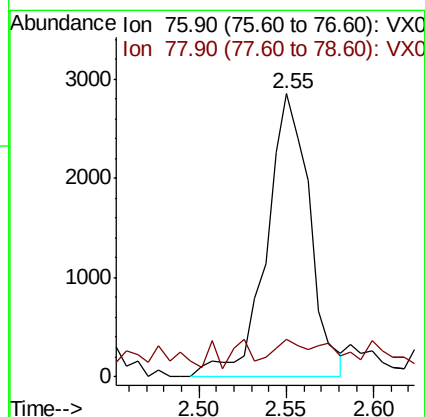
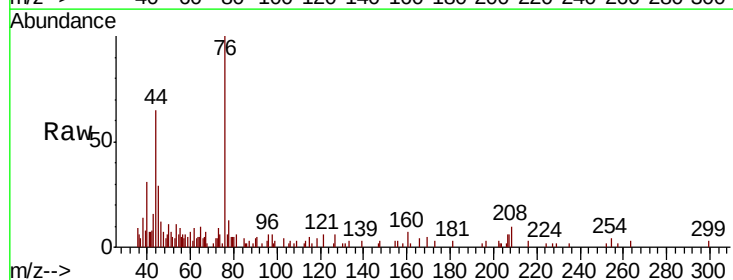
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGEBLANK-SAMPLEMANAG

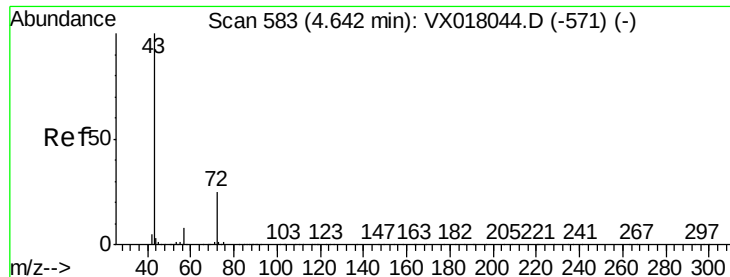
Tot Ion: 43 Resp: 17147  
Ion Ratio Lower Upper  
43 100  
58 29.9 25.5 38.3



#17  
Carbon Disulfide  
Concen: 0.280 ug/l  
RT: 2.55 min Scan# 240  
Delta R.T. -0.00 min  
Lab File: VX018057.D  
Acq: 21 Aug 2020 14:36

Tgt Ion: 76 Resp: 4911  
Ion Ratio Lower Upper  
76 100  
78 7.9 7.4 11.0





#25

2-Butanone

Concen: 0.235 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

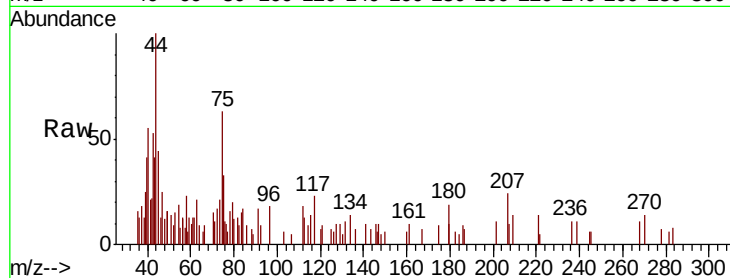
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 43 Resp: 1243

Ion Ratio Lower Upper

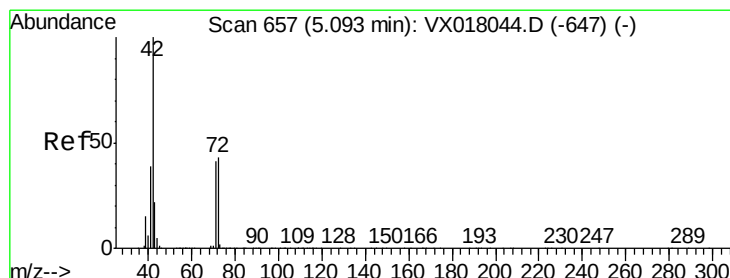
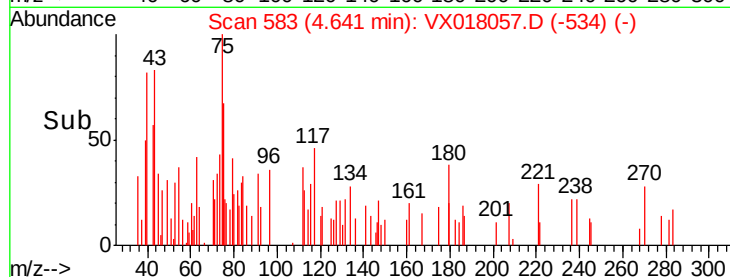
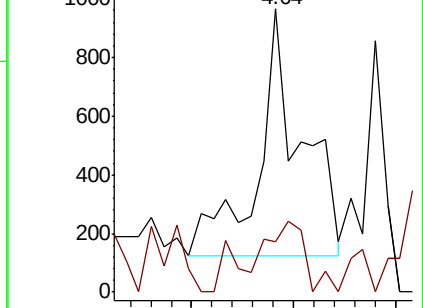
43 100

72 20.6 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.378 ug/l

RT: 5.07 min Scan# 654

Delta R.T. -0.02 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

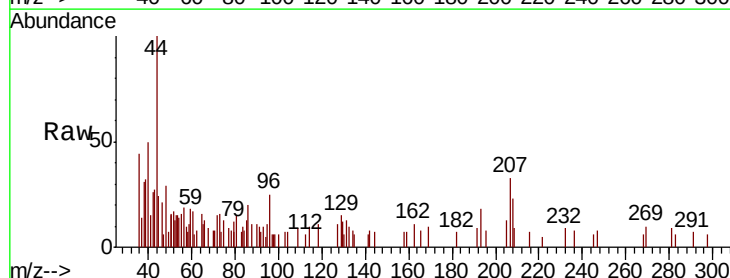
Tgt Ion: 42 Resp: 1272

Ion Ratio Lower Upper

42 100

72 18.3 34.2 51.4#

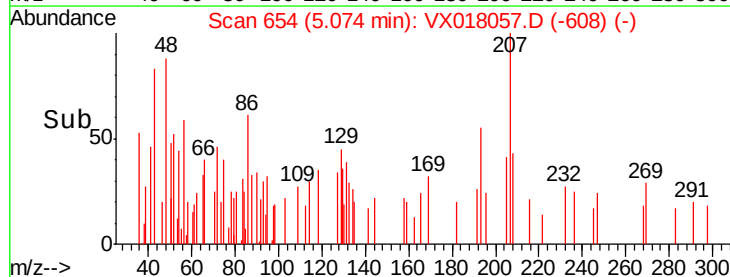
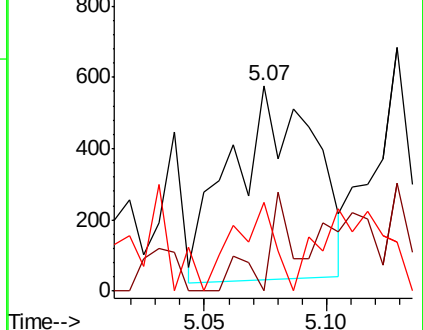
71 22.7 32.1 48.1#

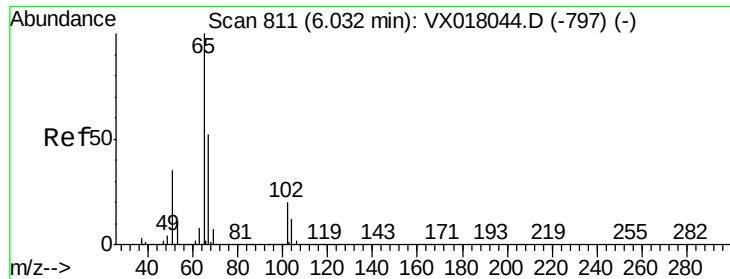


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.431 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

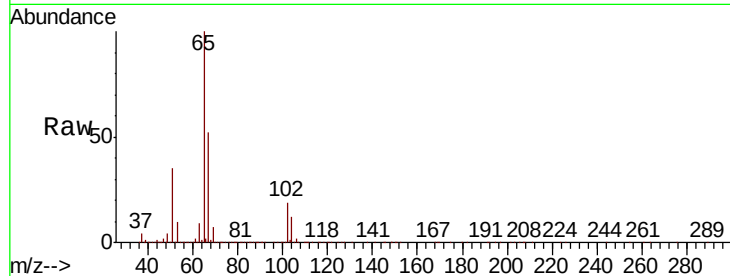
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 65 Resp: 399831

Ion Ratio Lower Upper

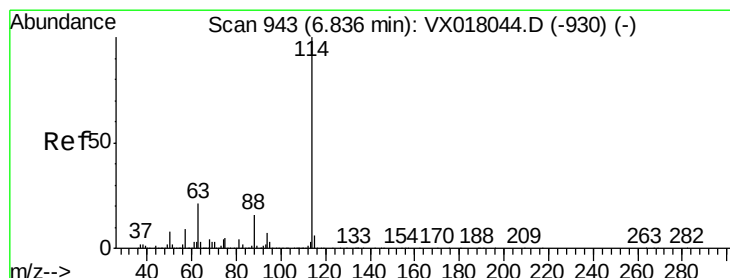
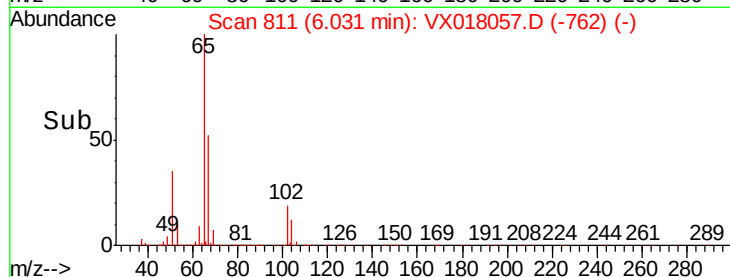
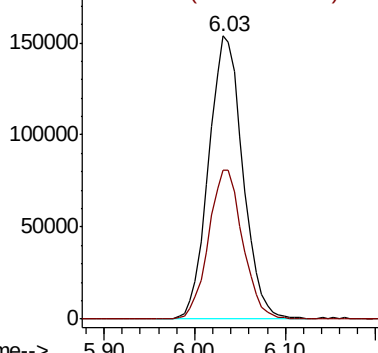
65 100

67 52.6 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

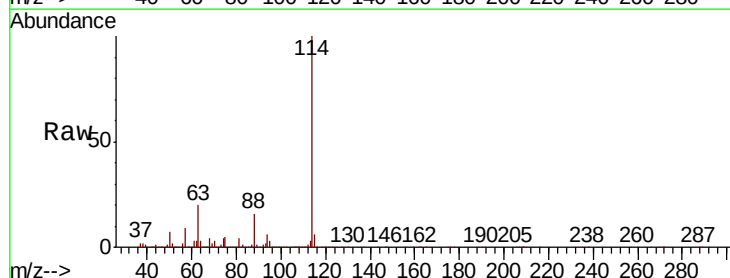
Tgt Ion: 114 Resp: 977623

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

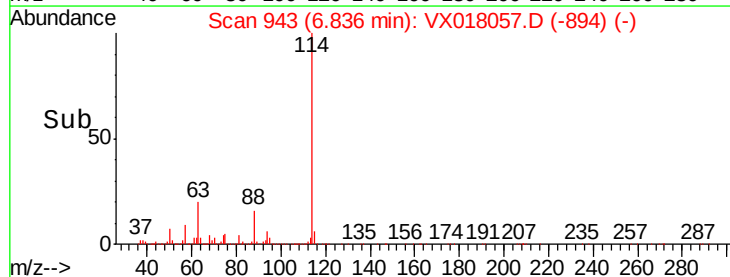
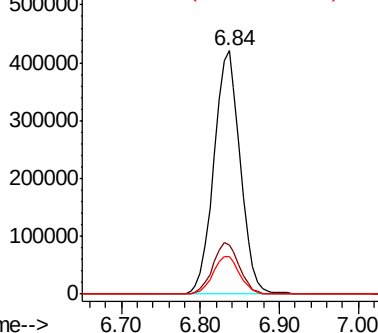
88 15.6 0.0 31.8



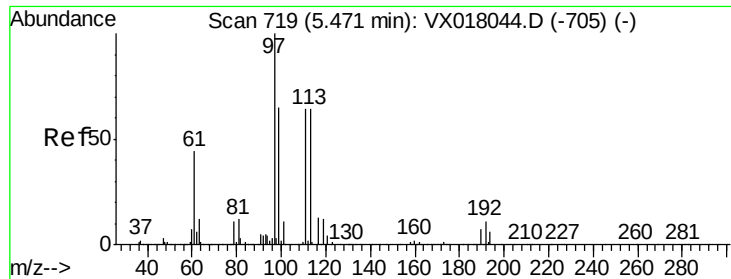
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



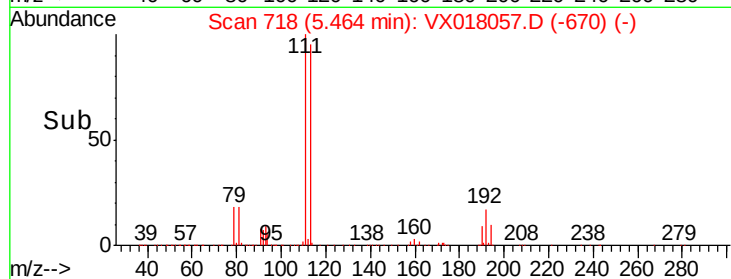
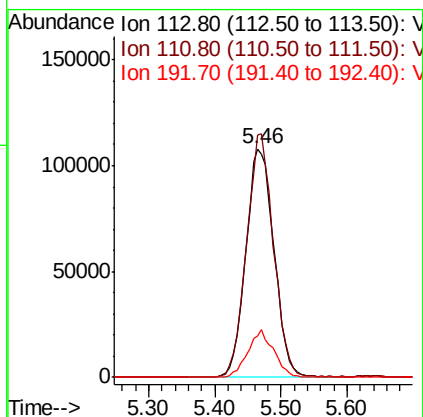
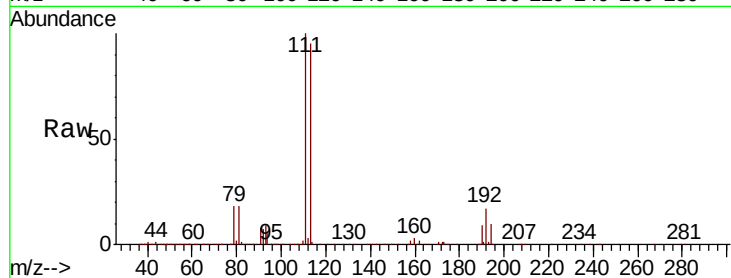




#35  
 Dibromofluoromethane  
 Concen: 48.067 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. -0.01 min  
 Lab File: VX018057.D  
 Acq: 21 Aug 2020 14:36

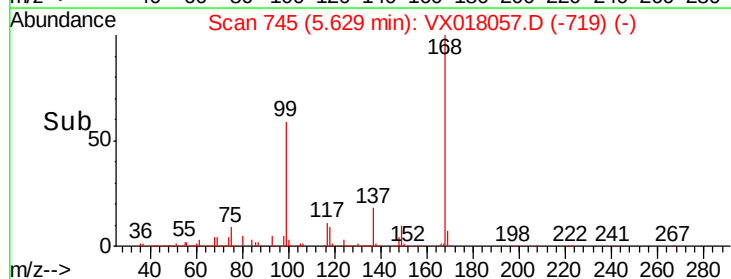
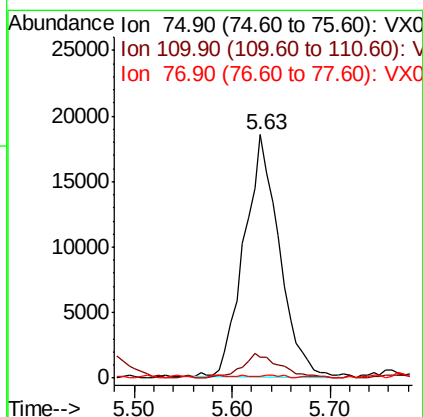
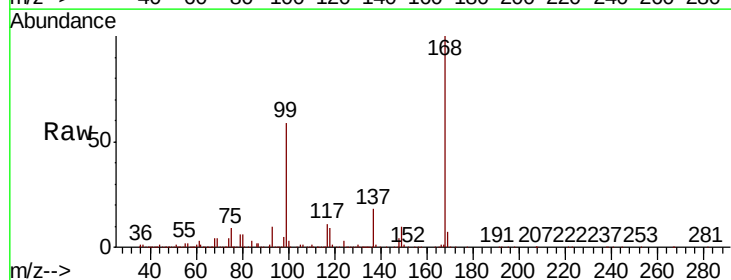
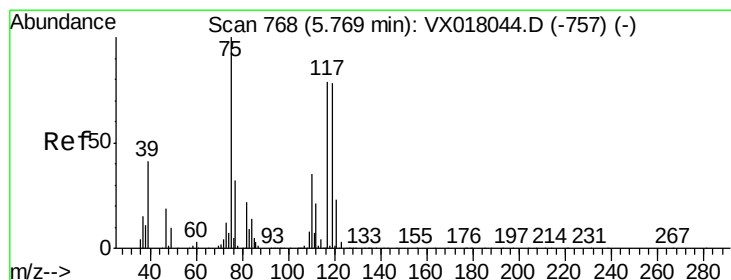
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGEBLANK-SAMPLEMANAG

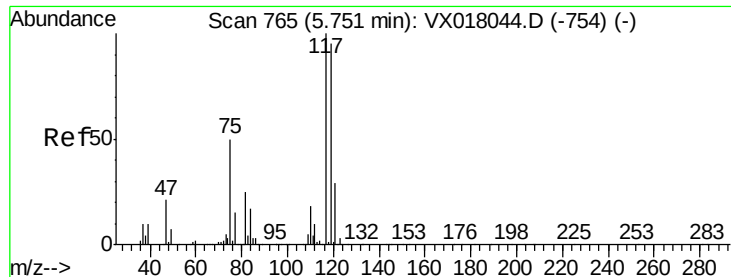
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 81.6  | 122.4 |
| 192     | 19.2  | 15.8  | 23.8  |



#36  
 1,1-Dichloropropene  
 Concen: 5.133 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX018057.D  
 Acq: 21 Aug 2020 14:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.9  | 18.0  | 54.0# |
| 77      | 0.6   | 24.4  | 36.6# |





#38

Carbon Tetrachloride

Concen: 6.062 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

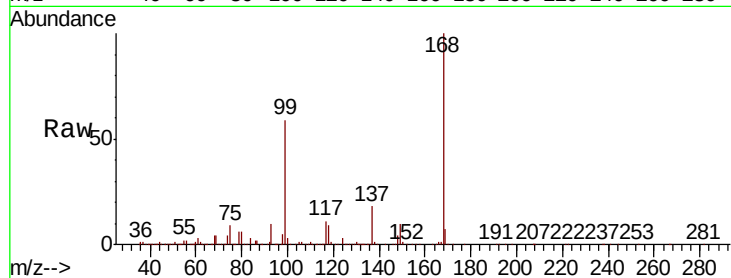
Tot Ion:117 Resp: 61600

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

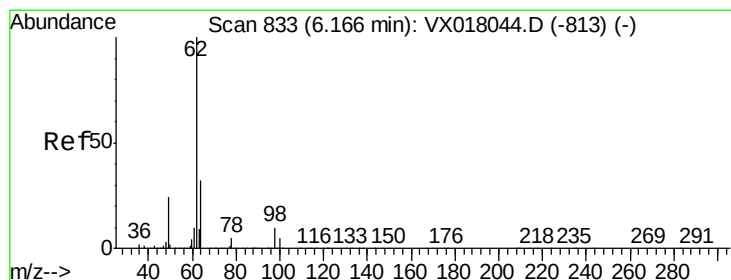
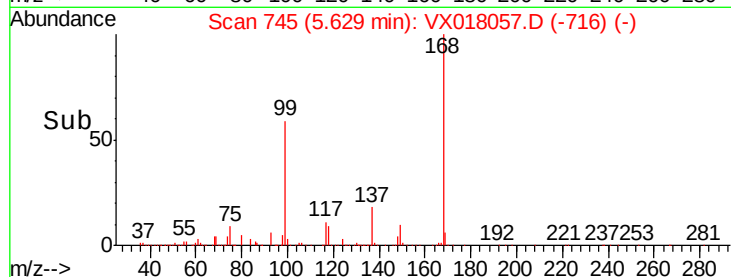
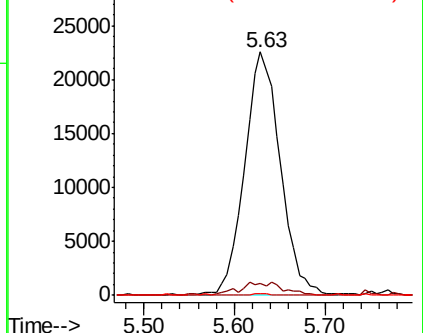
121 0.5 23.4 35.0#



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



#42

1,2-Dichloroethane

Concen: 0.263 ug/l

RT: 6.15 min Scan# 830

Delta R.T. -0.02 min

Lab File: VX018057.D

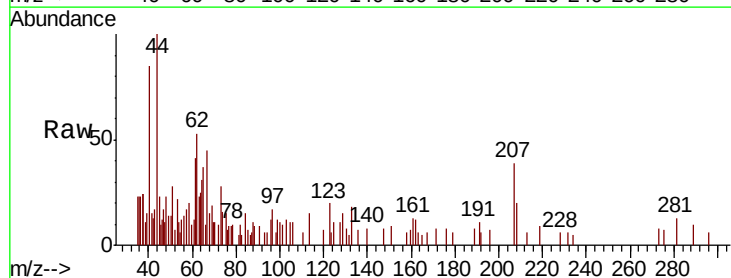
Acq: 21 Aug 2020 14:36

Tgt Ion: 62 Resp: 2666

Ion Ratio Lower Upper

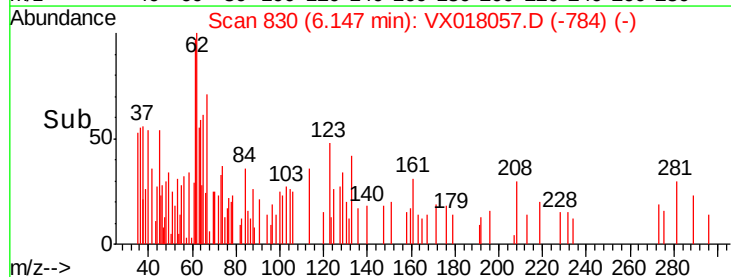
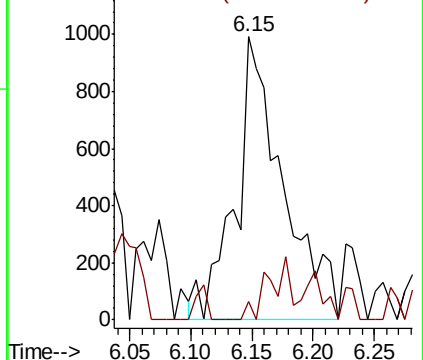
62 100

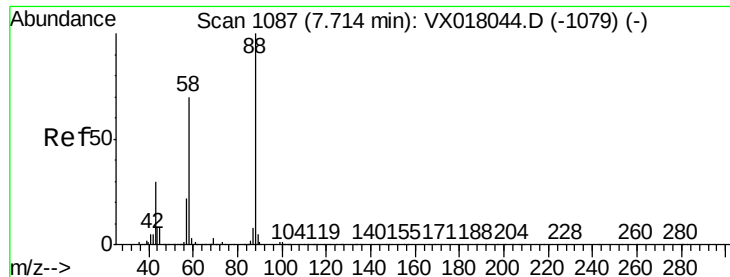
98 6.3 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 0.826 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

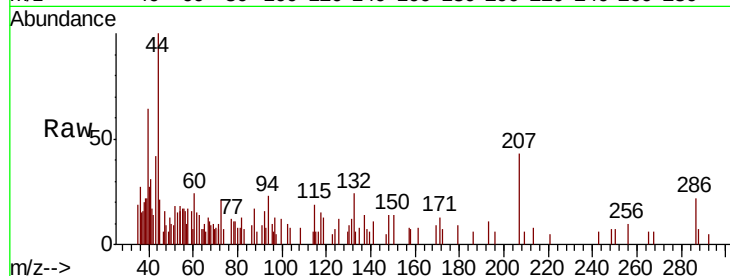
Tot Ion: 88 Resp: 126

Ion Ratio Lower Upper

88 100

43 446.8 27.4 41.0#

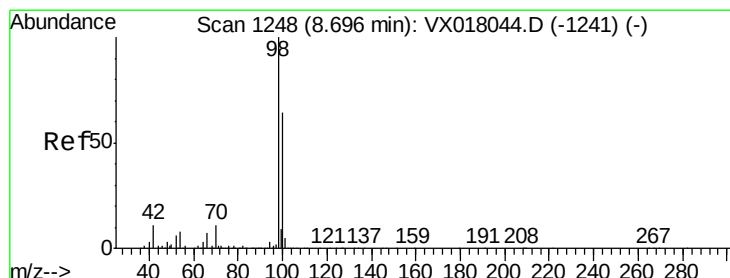
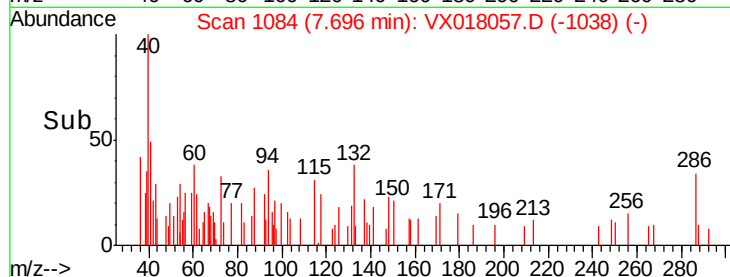
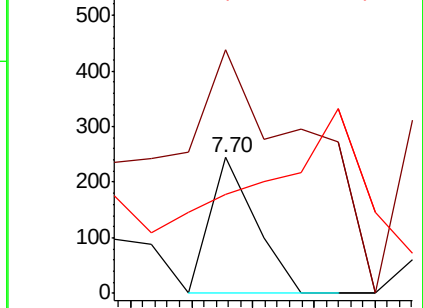
58 227.0 56.4 84.6#



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: 47.210 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018057.D

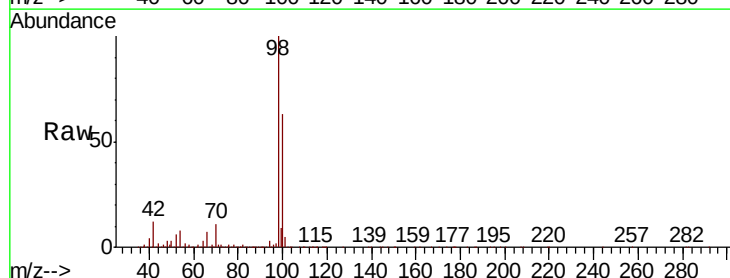
Acq: 21 Aug 2020 14:36

Tgt Ion: 98 Resp: 1170723

Ion Ratio Lower Upper

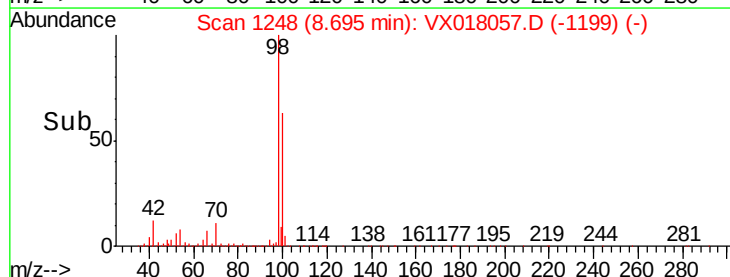
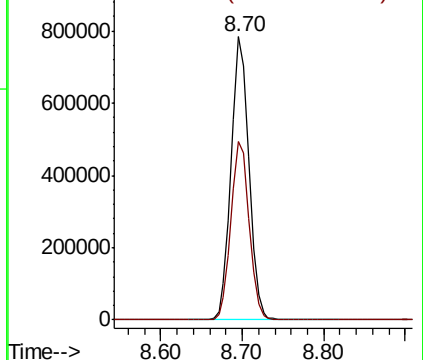
98 100

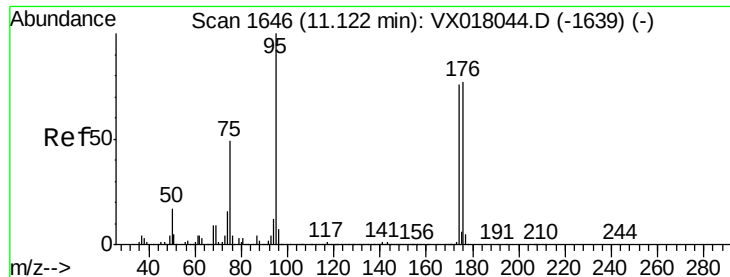
100 64.2 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.747 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

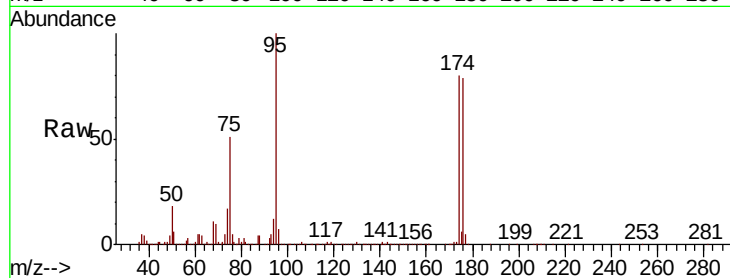
Tot Ion: 95 Resp: 417074

Ion Ratio Lower Upper

95 100

174 78.8 0.0 160.2

176 77.9 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018044.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018044.D (-1639) (-)

11.12

400000

300000

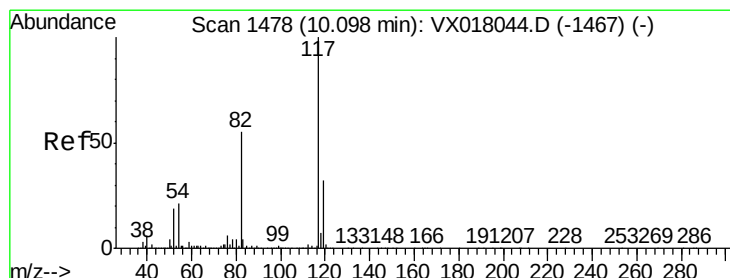
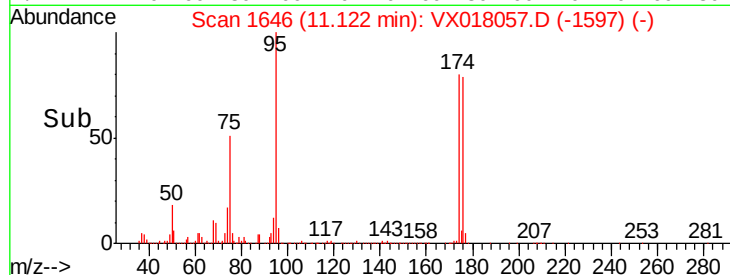
200000

100000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

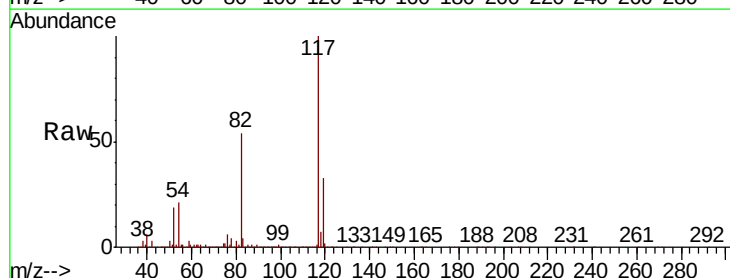
Tgt Ion: 117 Resp: 917575

Ion Ratio Lower Upper

117 100

82 54.1 44.2 66.2

119 32.9 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018044.D (-1467) (-)

10.10

800000

600000

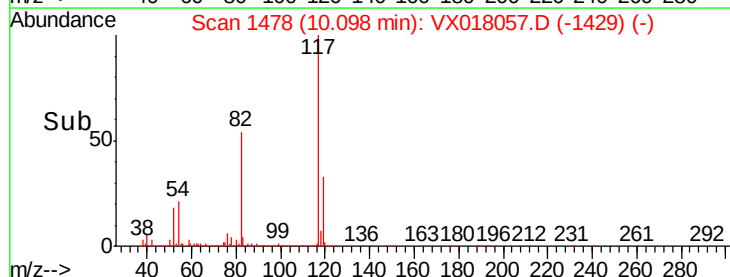
400000

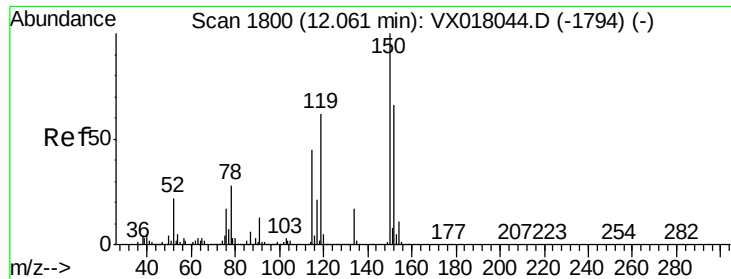
200000

0

10.00 10.10 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

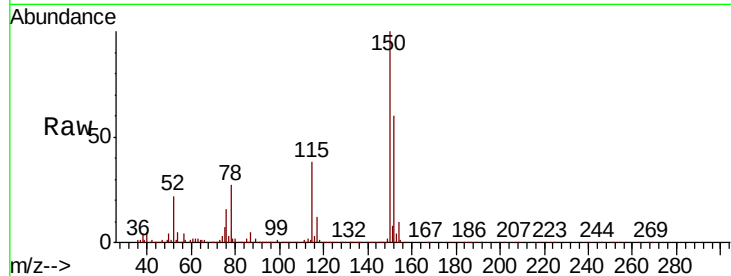
Tot Ion:152 Resp: 423220

Ion Ratio Lower Upper

152 100

115 60.3 41.5 124.5

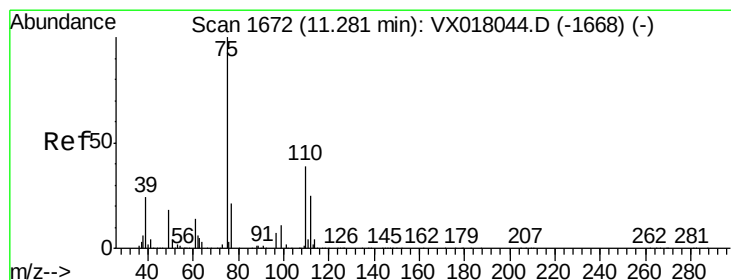
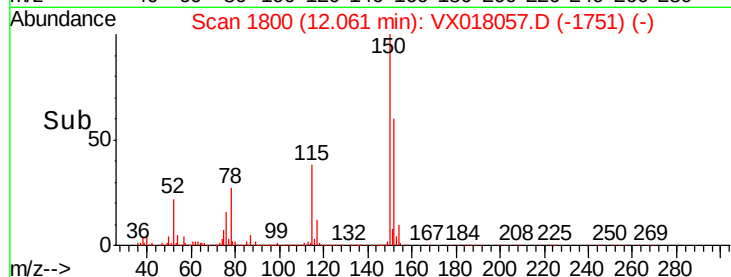
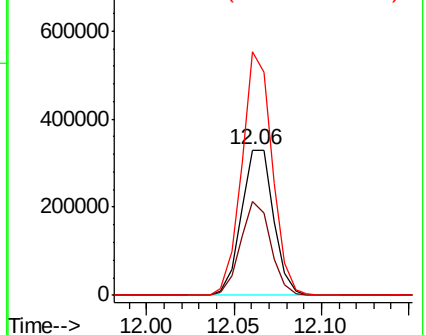
150 157.5 0.0 343.8



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



#76

1,2,3-Trichloropropane

Concen: 22.630 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018057.D

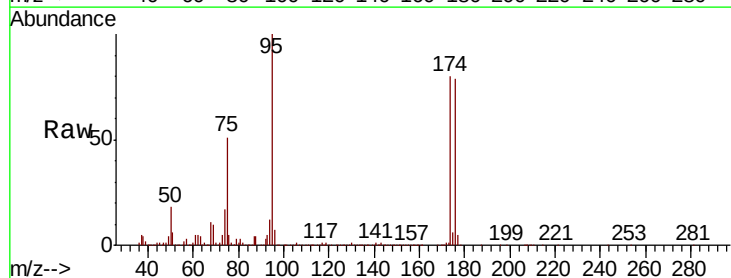
Acq: 21 Aug 2020 14:36

Tgt Ion: 75 Resp: 213054

Ion Ratio Lower Upper

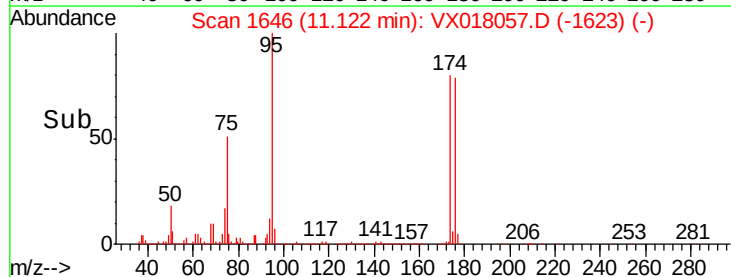
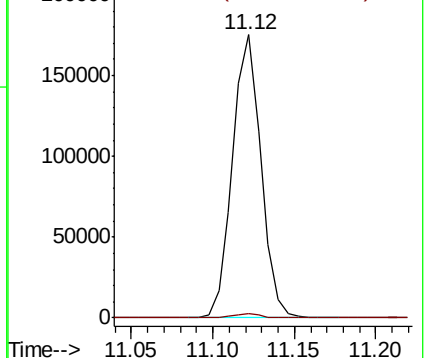
75 100

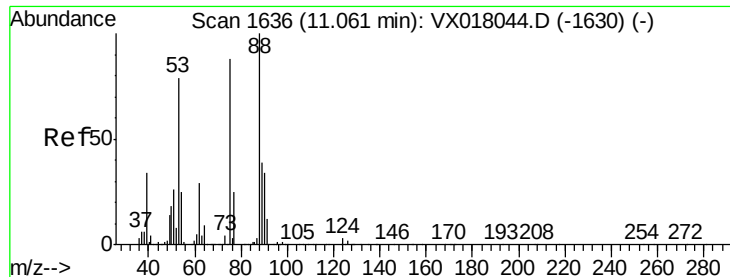
77 1.6 20.8 62.2#



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: 61.120 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

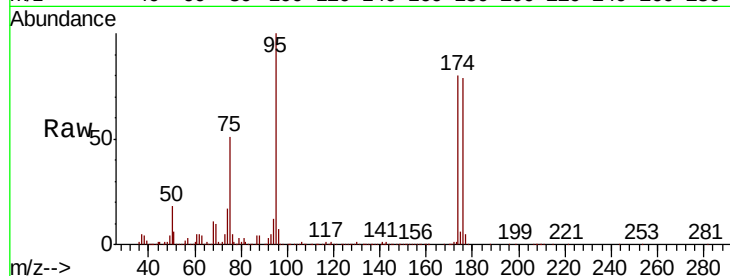
Tot Ion: 75 Resp: 213054

Ion Ratio Lower Upper

75 100

53 0.3 74.7 112.1#

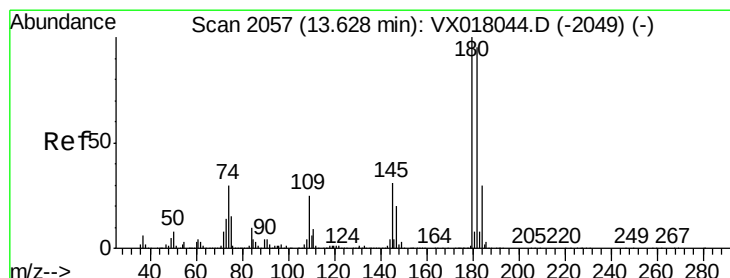
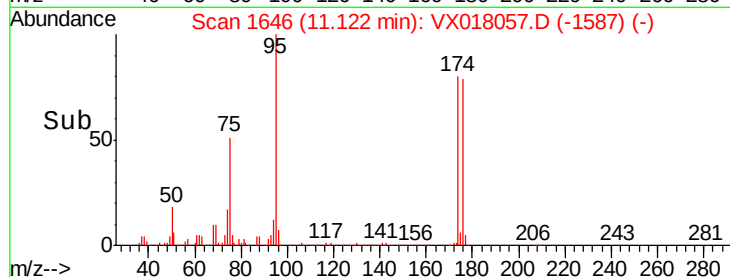
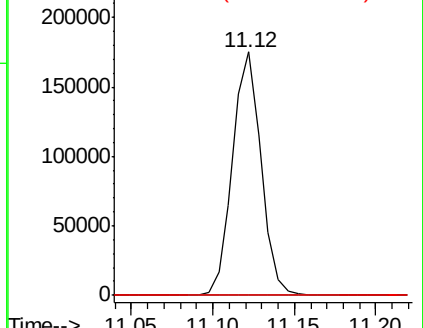
89 0.1 36.6 54.8#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.239 ug/l

RT: 13.62 min Scan# 2056

Delta R.T. -0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

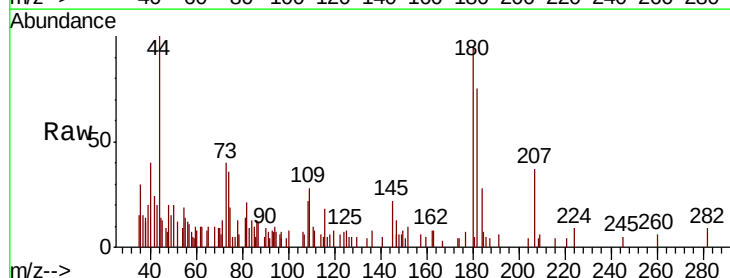
Tgt Ion: 180 Resp: 2034

Ion Ratio Lower Upper

180 100

182 100.4 47.5 142.6

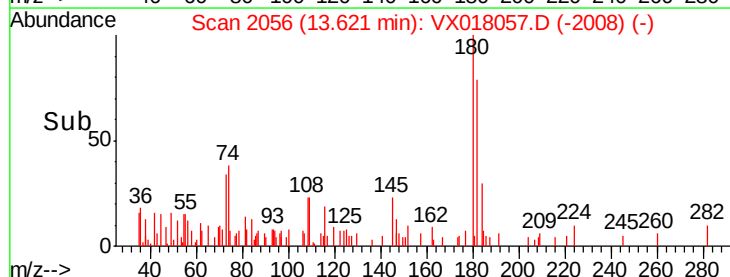
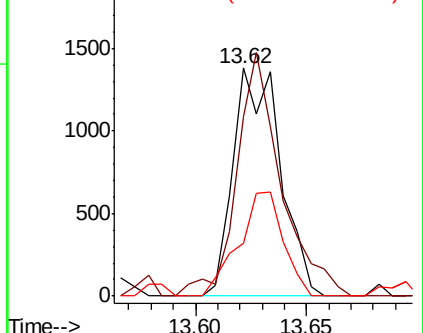
145 43.4 15.7 47.1

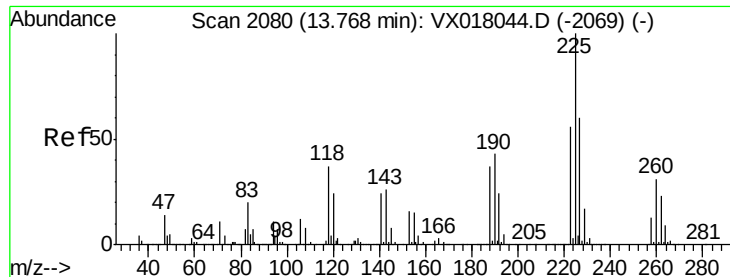


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.338 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE\BLANK-SAMPLE\MANAG

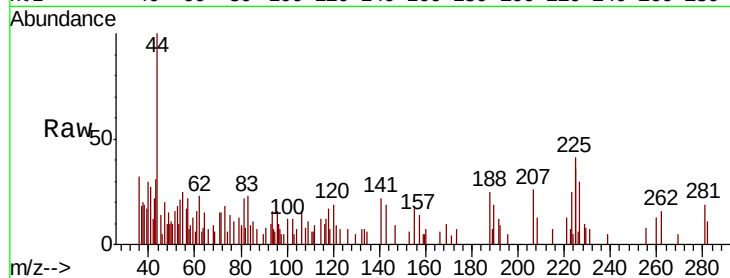
Tot Ion:225 Resp: 1134

Ion Ratio Lower Upper

225 100

223 52.7 30.7 92.1

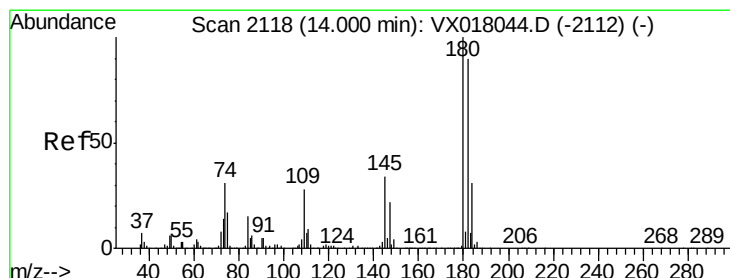
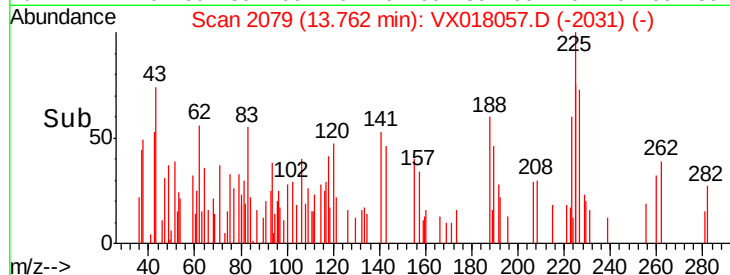
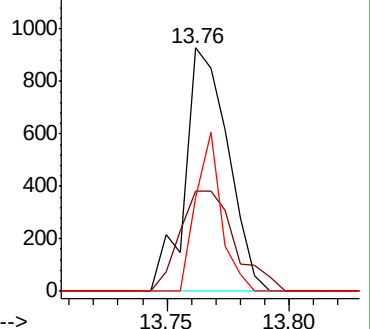
227 38.8 32.6 97.8



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



#96

1,2,3-Trichlorobenzene

Concen: 0.201 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

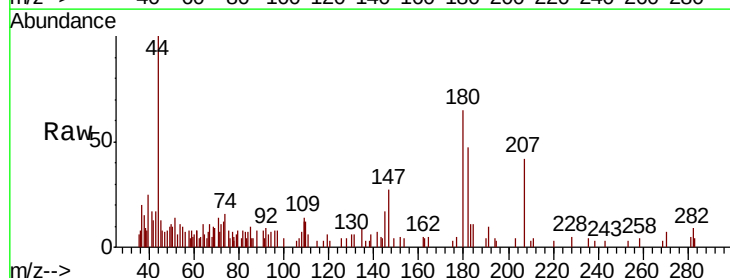
Tgt Ion:180 Resp: 1692

Ion Ratio Lower Upper

180 100

182 91.9 47.3 142.0

145 36.6 17.5 52.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

