

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061019\  
 Data File : VX010175.D  
 Acq On : 10 Jun 2019 14:12  
 Operator : JC/SP  
 Sample : K3249-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW302S-20190606

Quant Time: Jun 11 02:36:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 267408   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 407143   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 358422   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 166066   | 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   | 119916   | 45.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.88%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 123373   | 49.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.26%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 471774   | 50.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.24% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 159844   | 45.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.94%  |          |

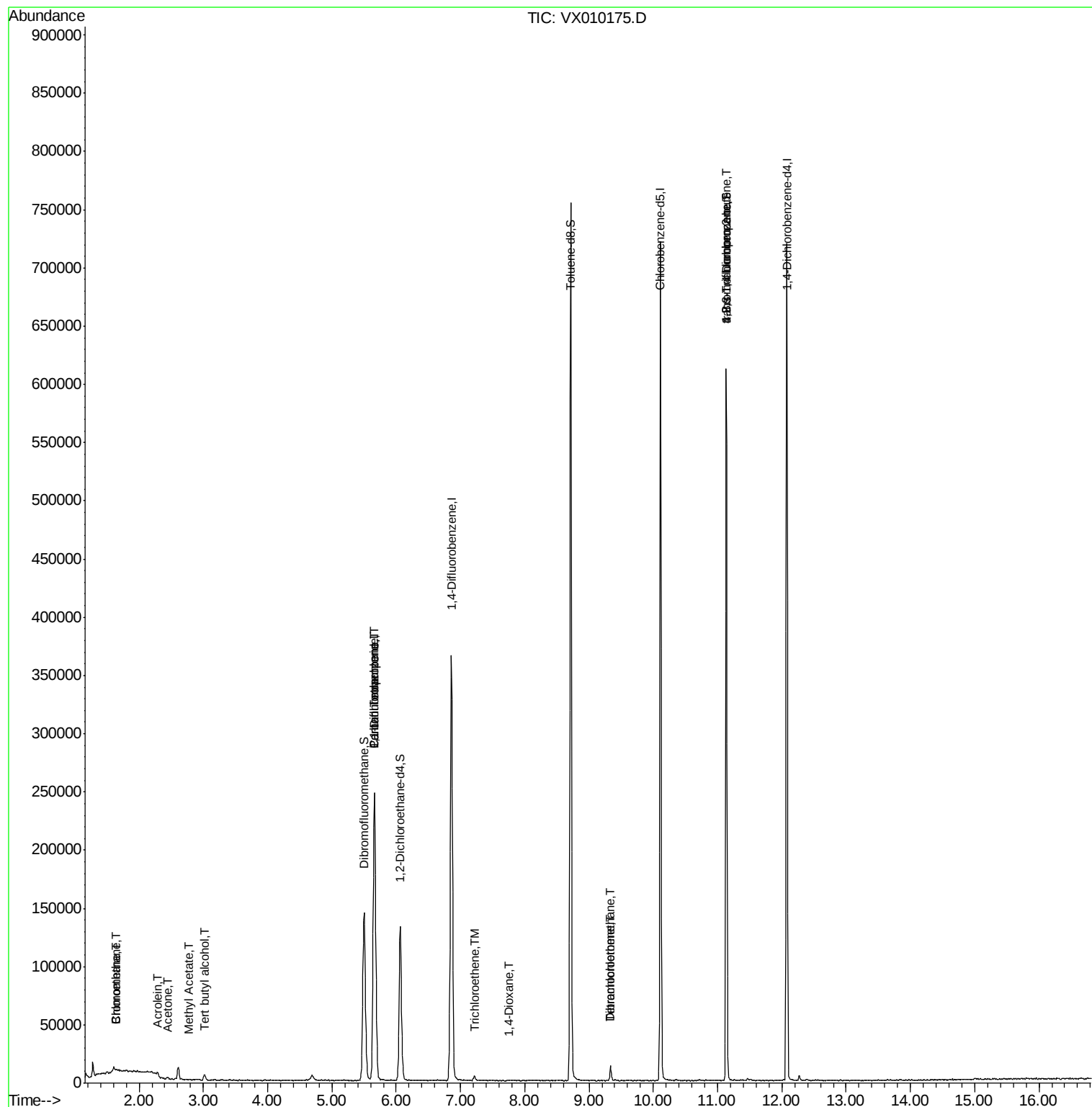
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 567      | 0.654  | ug/l # | 77     |
| 6) Chloroethane                | 1.65  | 64   | 1474     | 1.273  | ug/l # | 61     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2429     | 3.799  | ug/l # | 83     |
| 13) Acrolein                   | 2.28  | 56   | 357      | 3.062  | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43   | 1371     | 1.117  | ug/l # | 87     |
| 18) Methyl Acetate             | 2.77  | 43   | 596      | 0.221  | ug/l # | 75     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 15755    | 4.743  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 22579    | 6.005  | ug/l # | 16     |
| 44) Trichloroethene            | 7.21  | 130  | 1475     | 0.476  | ug/l # | 75     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 19       | 0.247  | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129  | 2297     | 0.702  | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164  | 2382     | 0.895  | ug/l # | 92     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 72753    | 21.903 | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 72753    | 48.393 | ug/l # | 10     |

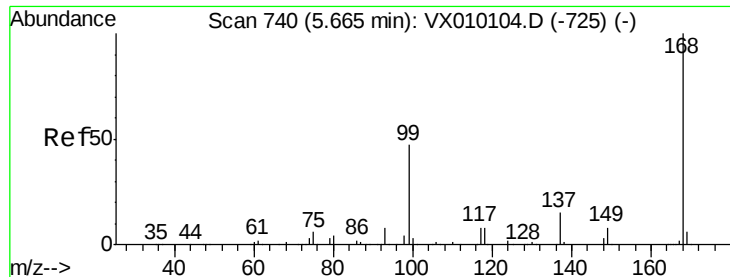
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061019\  
Data File : VX010175.D  
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Instrument :  
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BPS1-TT-MW302S-20190606

Quant Time: Jun 11 02:36:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 08 02:12:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

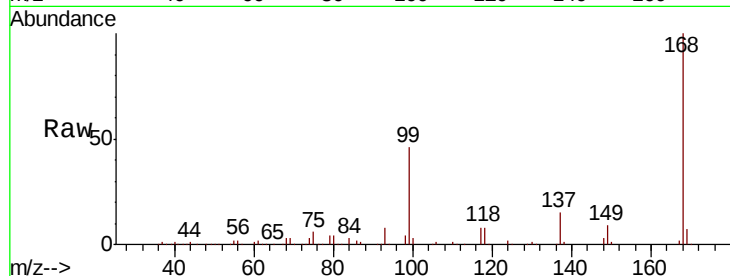
BPS1-TT-MW302S-20190606

Tot Ion:168 Resp: 267408

Ion Ratio Lower Upper

168 100

99 45.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

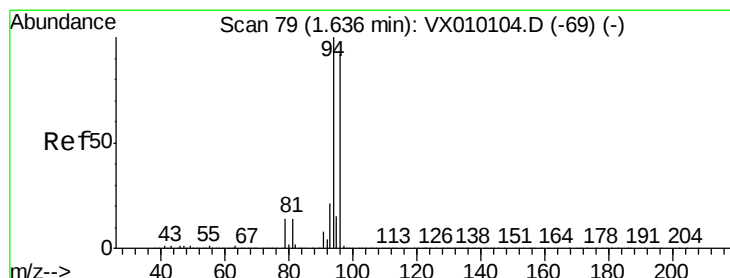
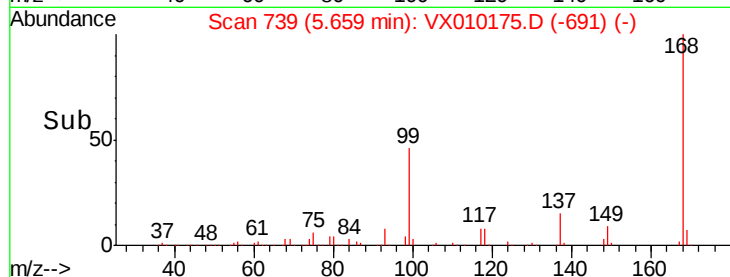
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.654 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010175.D

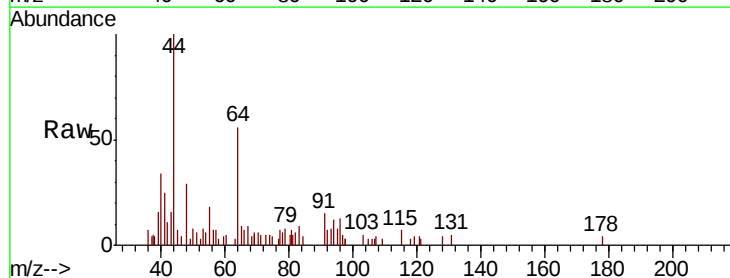
Acq: 10 Jun 2019 14:12

Tgt Ion: 94 Resp: 567

Ion Ratio Lower Upper

94 100

96 72.7 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

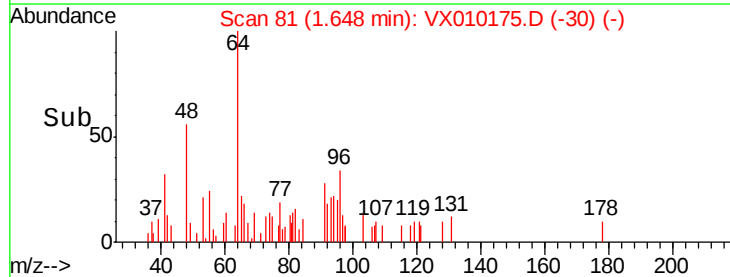
100

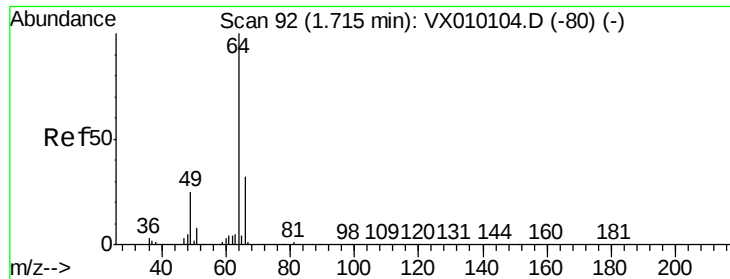
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 1.273 ug/l

RT: 1.65 min Scan# 82

Delta R.T. -0.06 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

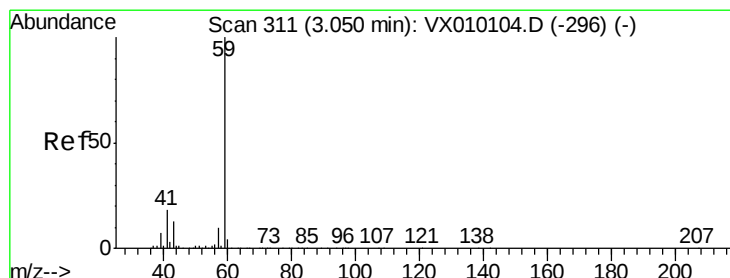
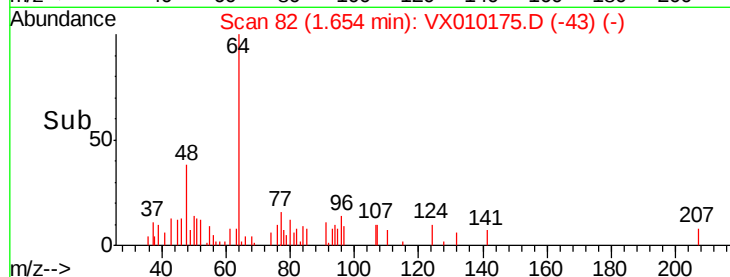
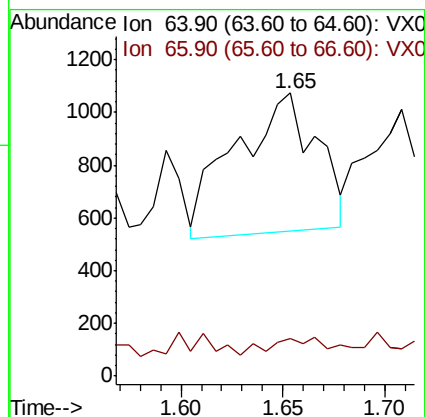
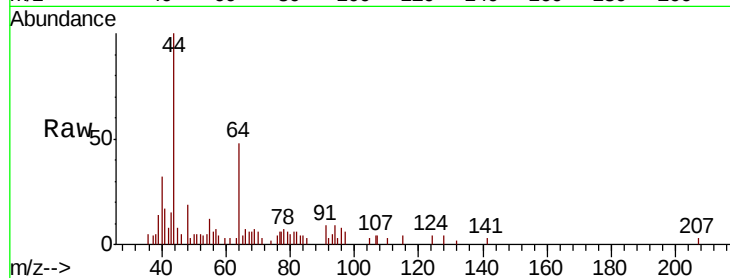
BPS1-TT-MW302S-20190606

Tot Ion: 64 Resp: 1474

Ion Ratio Lower Upper

64 100

66 10.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: 3.799 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010175.D

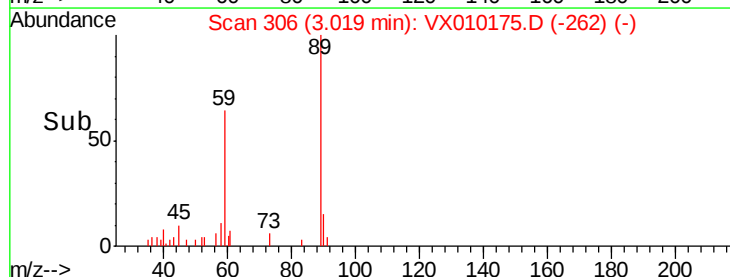
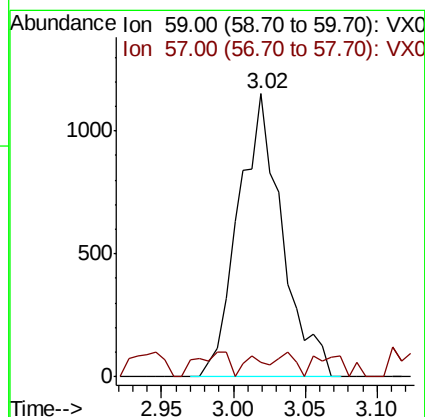
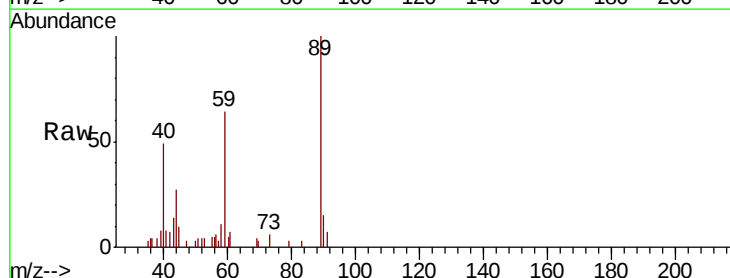
Acq: 10 Jun 2019 14:12

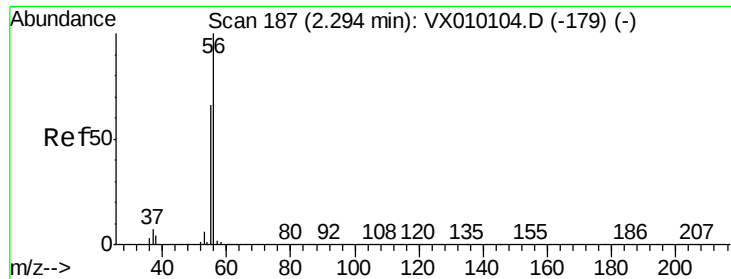
Tgt Ion: 59 Resp: 2429

Ion Ratio Lower Upper

59 100

57 3.8 8.2 12.2#

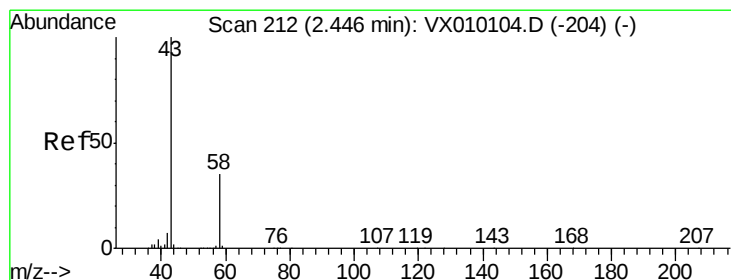
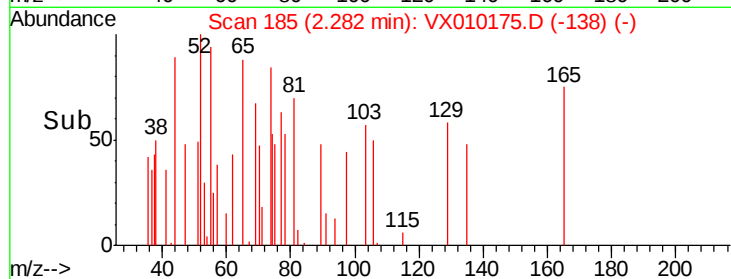
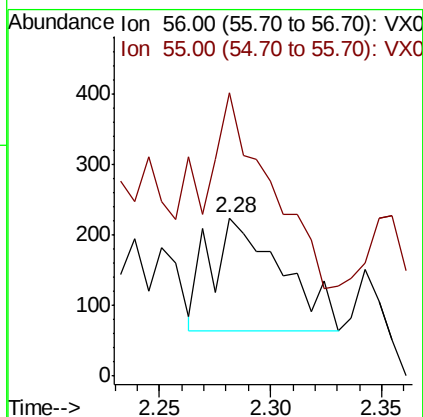
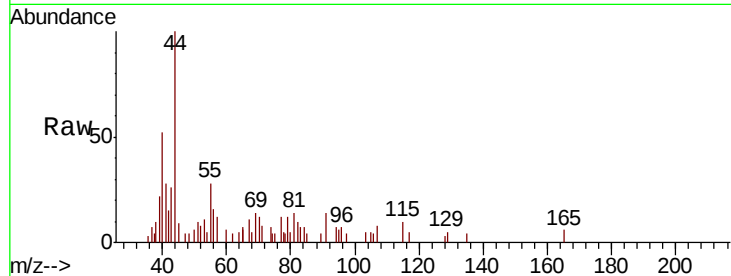




#13  
Acrolein  
Concen: 3.062 ug/l  
RT: 2.28 min Scan# 185  
Delta R.T. -0.01 min  
Lab File: VX010175.D  
Acq: 10 Jun 2019 14:12

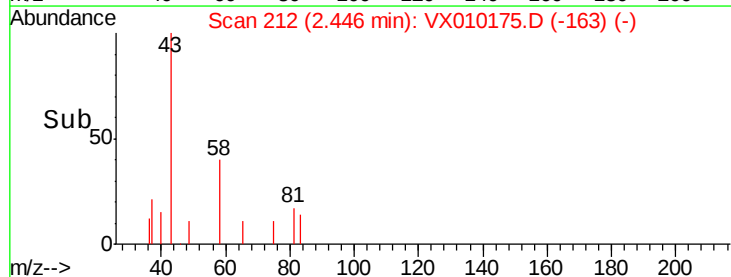
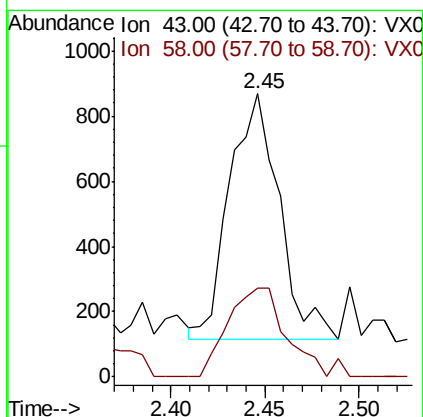
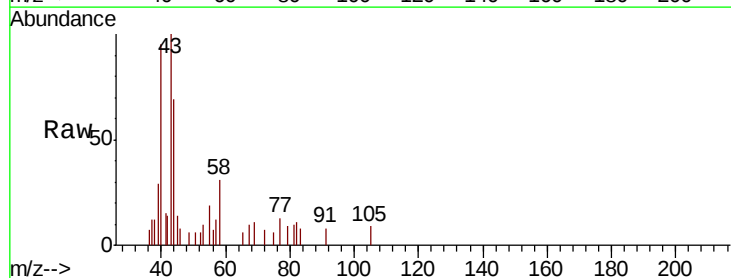
Instrument :  
MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW302S-20190606

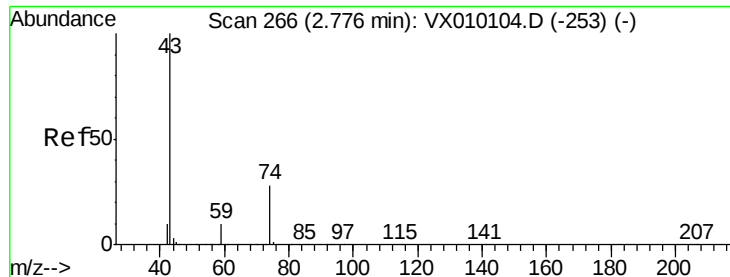
Tot Ion: 56 Resp: 357  
Ion Ratio Lower Upper  
56 100  
55 156.3 57.0 85.4#



#16  
Acetone  
Concen: 1.117 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX010175.D  
Acq: 10 Jun 2019 14:12

Tgt Ion: 43 Resp: 1371  
Ion Ratio Lower Upper  
43 100  
58 36.1 23.2 34.8#





#18

Methyl Acetate

Concen: 0.221 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

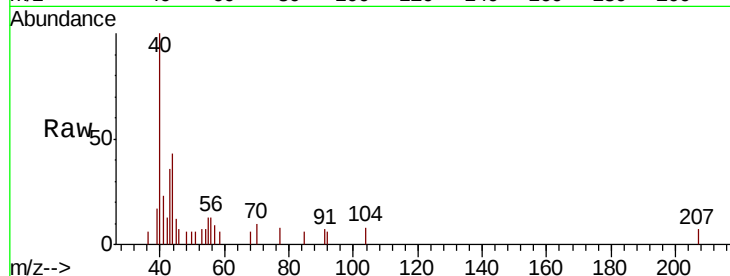
BPS1-TT-MW302S-20190606

Tot Ion: 43 Resp: 596

Ion Ratio Lower Upper

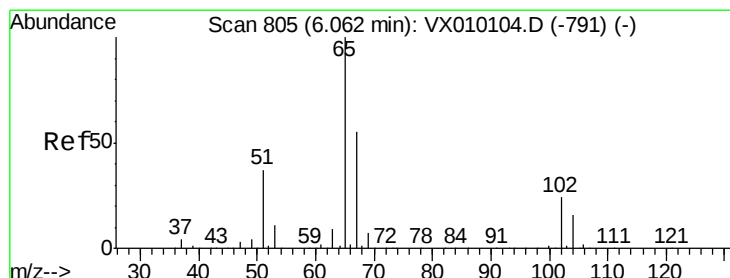
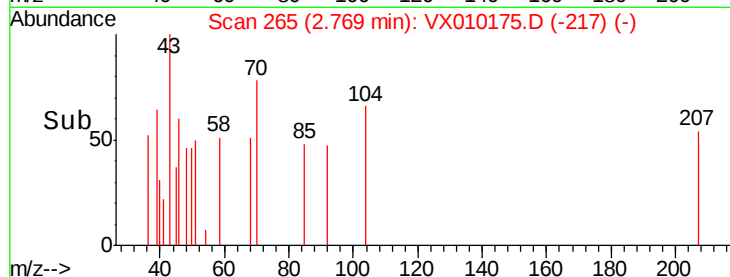
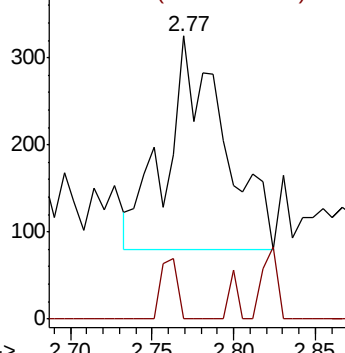
43 100

74 8.2 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.941 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010175.D

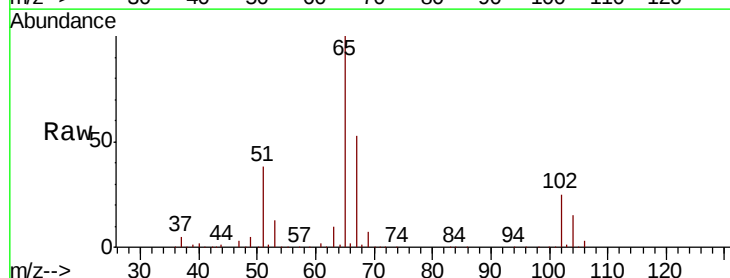
Acq: 10 Jun 2019 14:12

Tgt Ion: 65 Resp: 119916

Ion Ratio Lower Upper

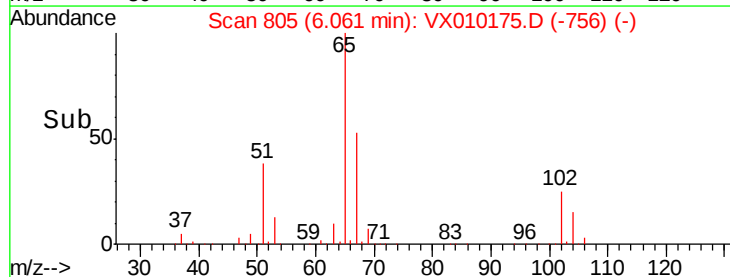
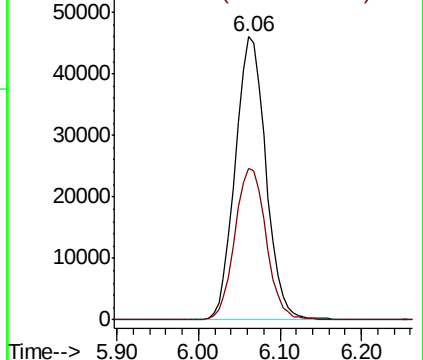
65 100

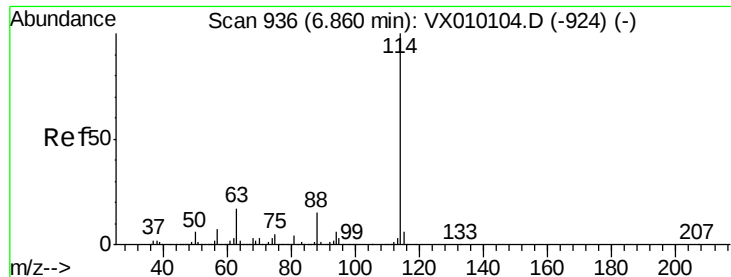
67 54.9 0.0 108.4



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW302S-20190606

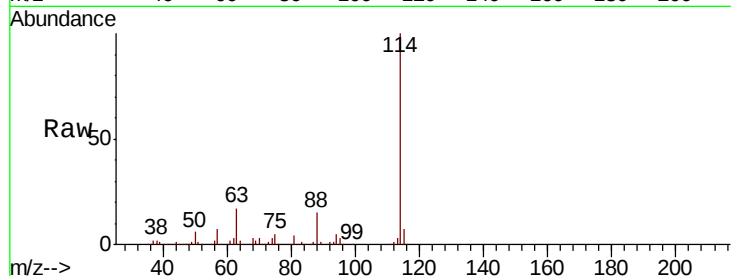
Tot Ion:114 Resp: 407143

Ion Ratio Lower Upper

114 100

63 16.9 0.0 47.4

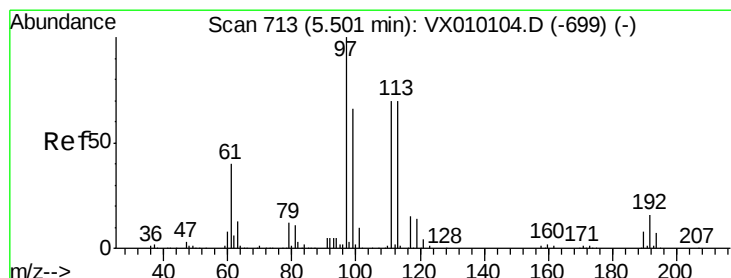
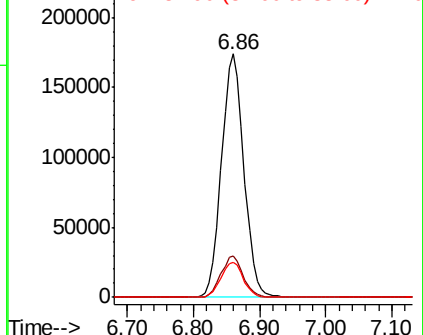
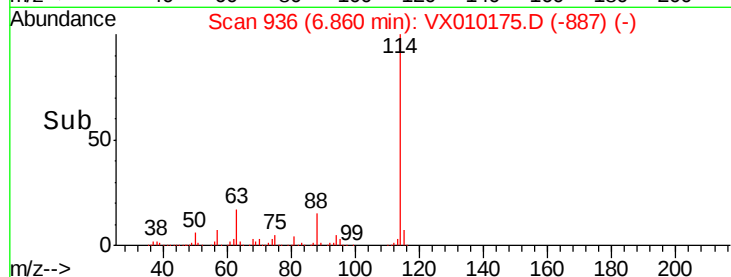
88 14.6 0.0 33.0



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: 49.126 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

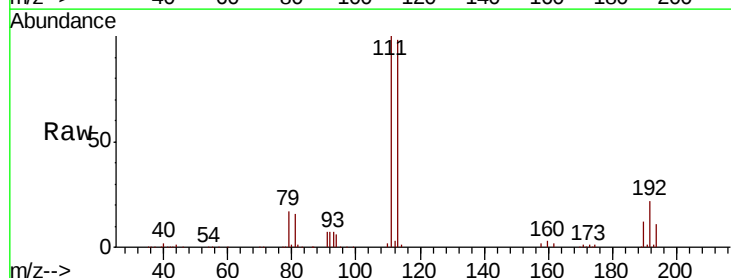
Tgt Ion:113 Resp: 123373

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.2

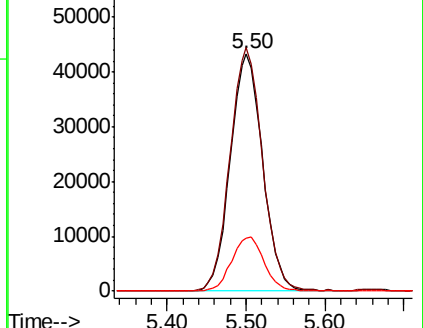
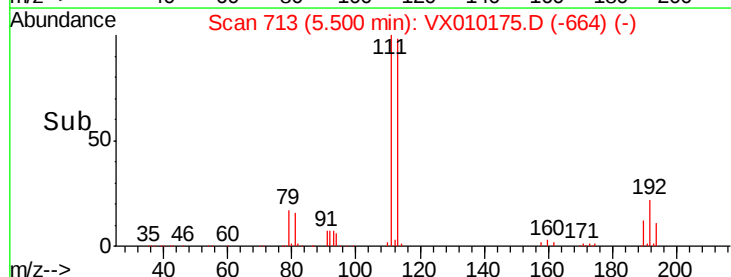
192 22.9 17.1 25.7

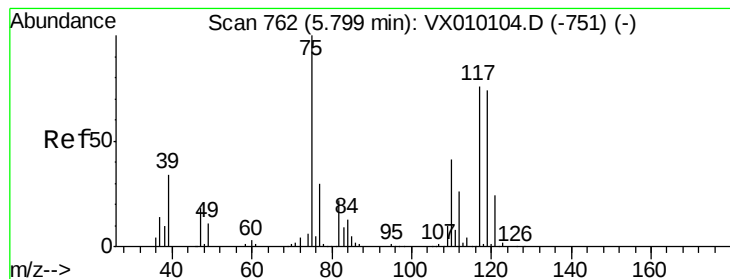


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.743 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

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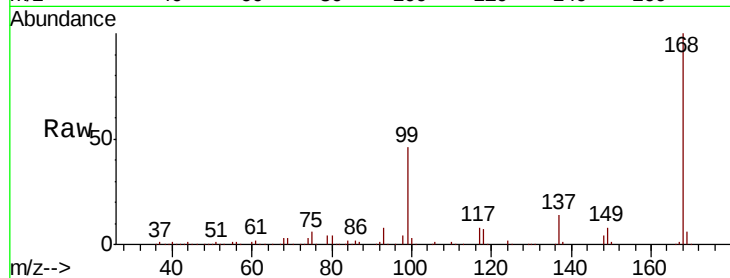
Tot Ion: 75 Resp: 15755

Ion Ratio Lower Upper

75 100

110 10.5 16.7 50.1#

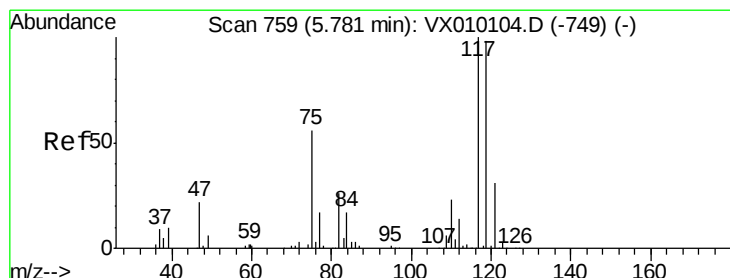
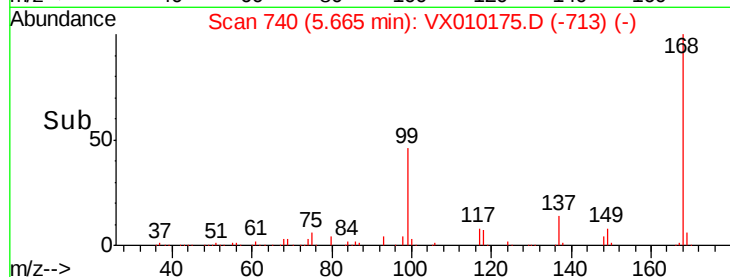
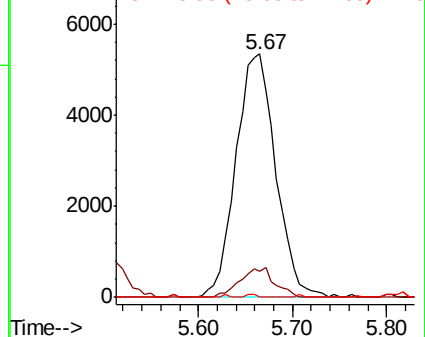
77 0.2 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.005 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

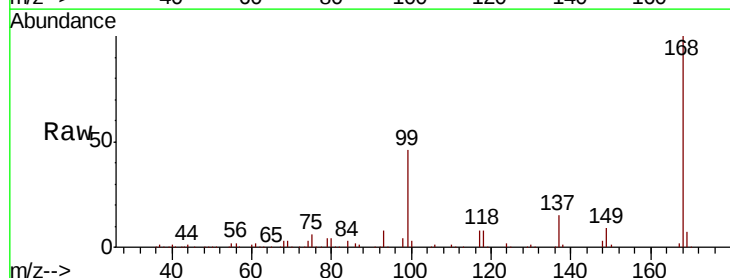
Tgt Ion: 117 Resp: 22579

Ion Ratio Lower Upper

117 100

119 5.8 77.3 115.9#

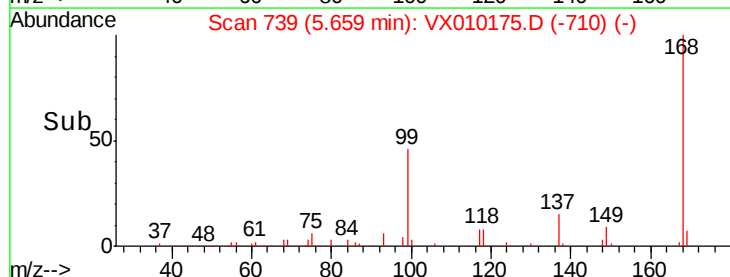
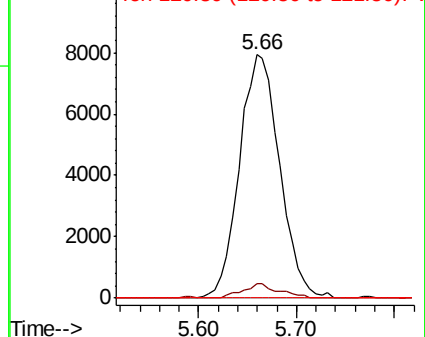
121 0.0 25.4 38.0#

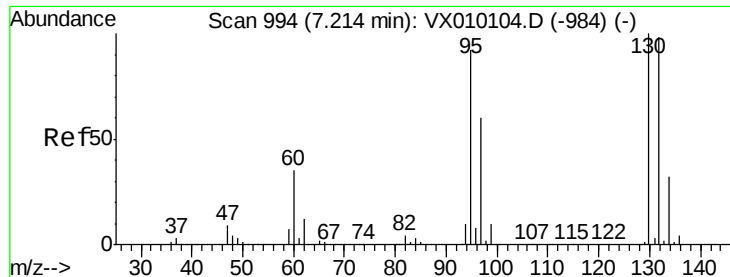


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.476 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

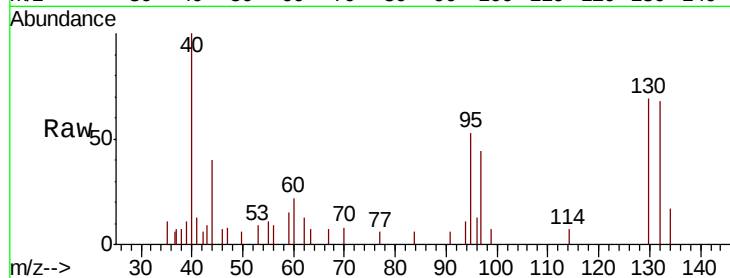
BPS1-TT-MW302S-20190606

Tot Ion:130 Resp: 1475

Ion Ratio Lower Upper

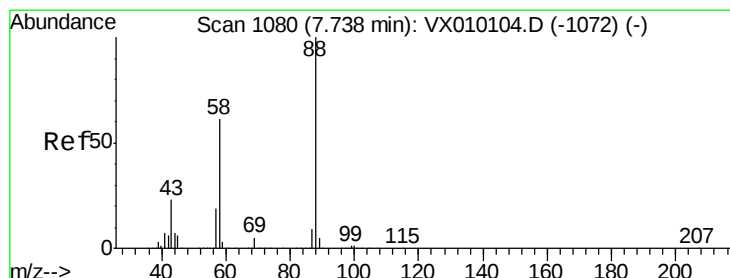
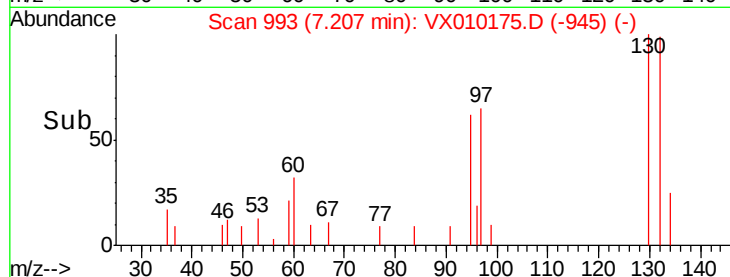
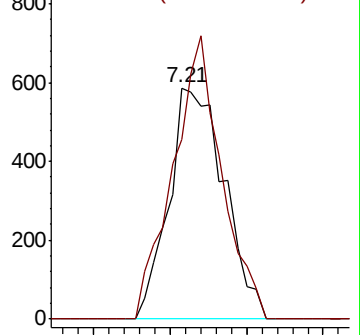
130 100

95 77.7 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.247 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

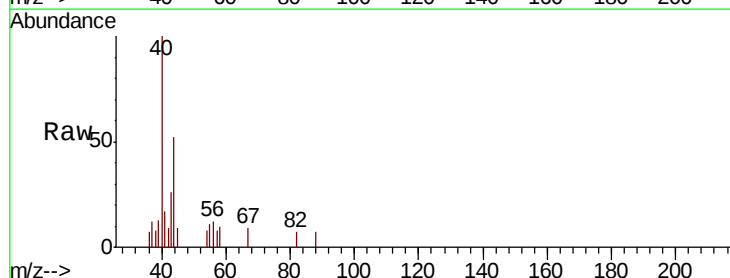
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 30.2 45.4#

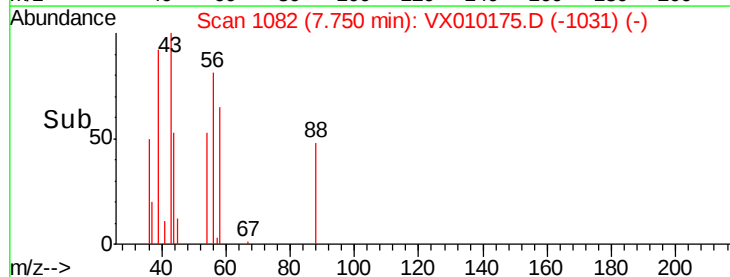
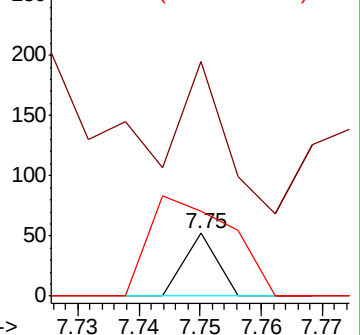
58 400.0 64.0 96.0#

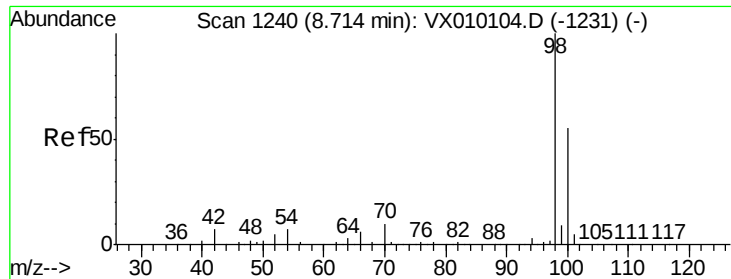


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.124 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

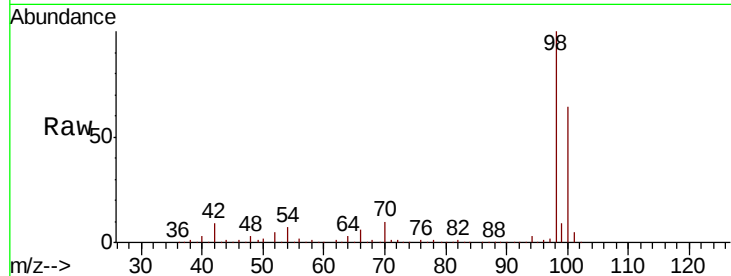
BPS1-TT-MW302S-20190606

Tot Ion: 98 Resp: 471774

Ion Ratio Lower Upper

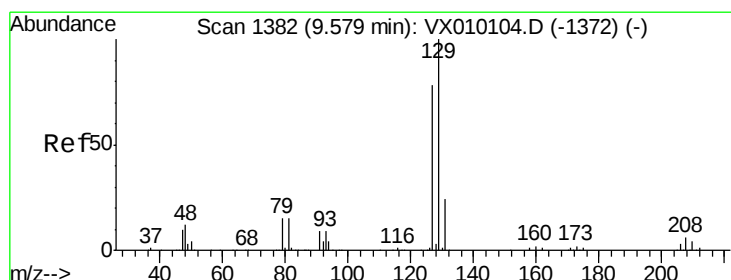
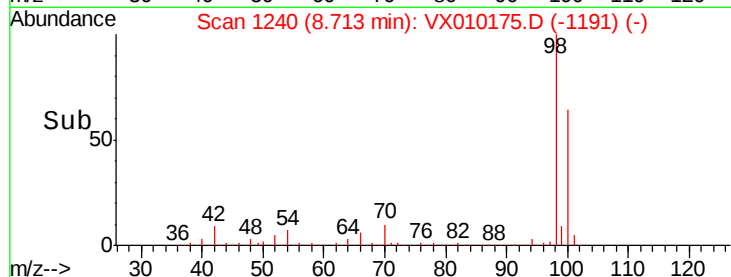
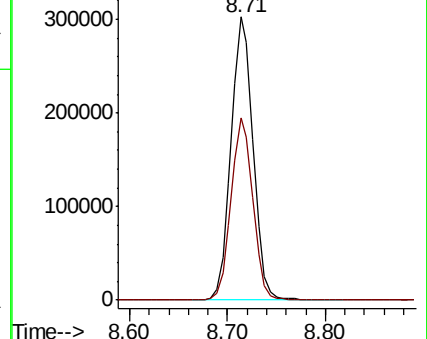
98 100

100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 0.702 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010175.D

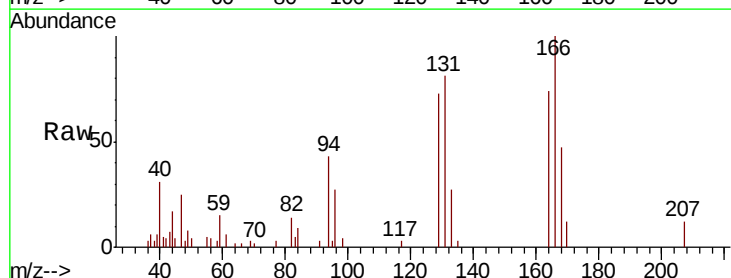
Acq: 10 Jun 2019 14:12

Tgt Ion:129 Resp: 2297

Ion Ratio Lower Upper

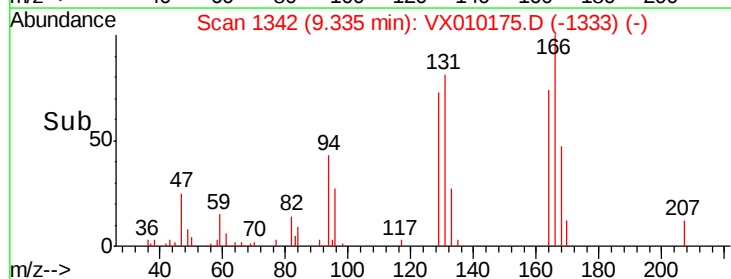
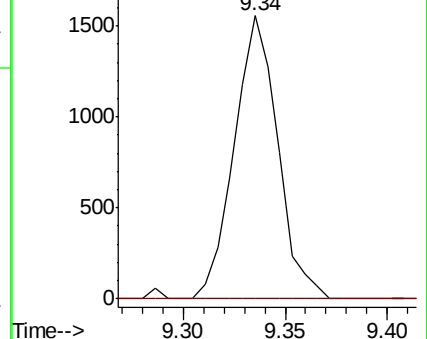
129 100

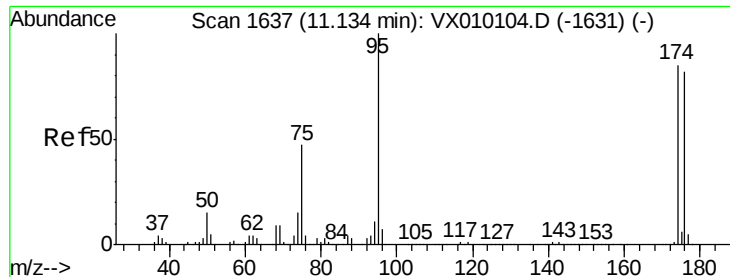
127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.474 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW302S-20190606

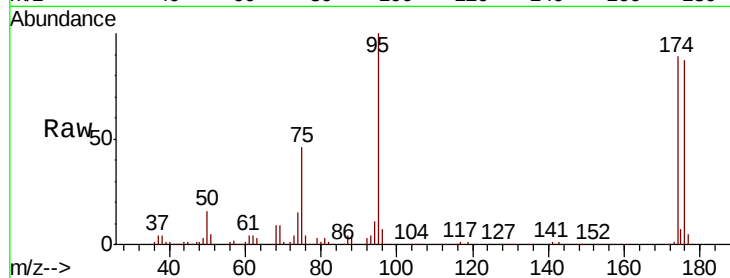
Tot Ion: 95 Resp: 159844

Ion Ratio Lower Upper

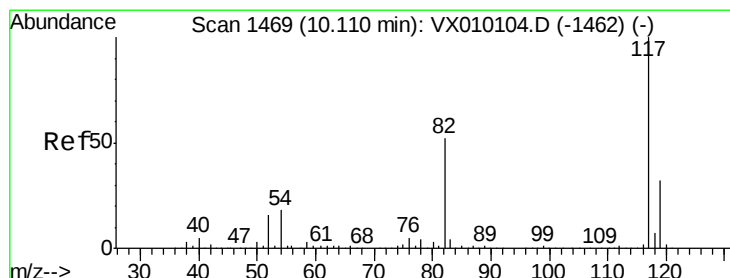
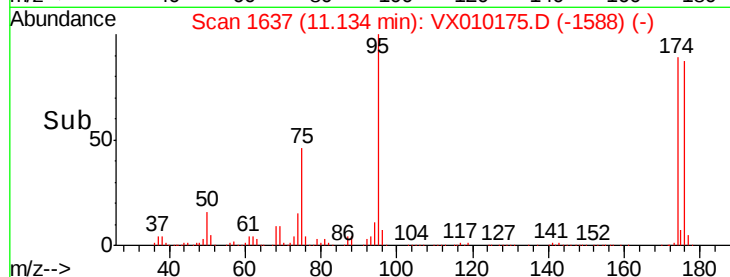
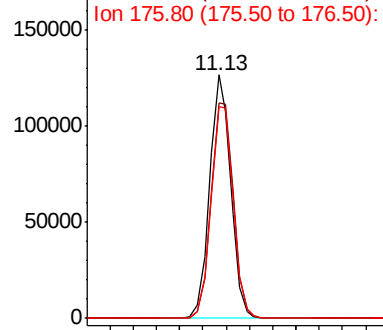
95 100

174 93.9 0.0 160.4

176 91.4 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX010175.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

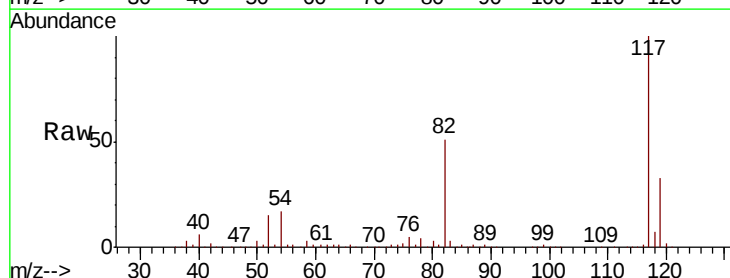
Tgt Ion: 117 Resp: 358422

Ion Ratio Lower Upper

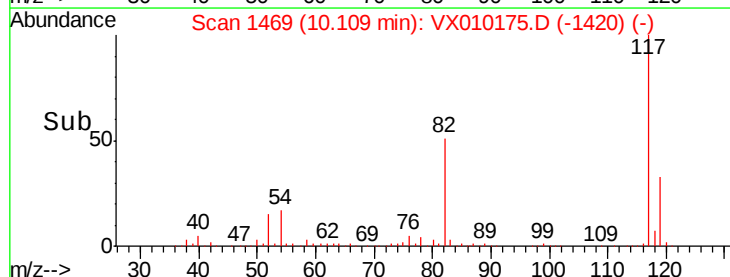
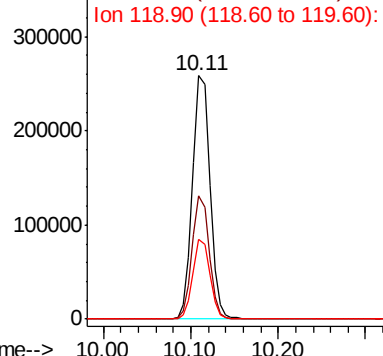
117 100

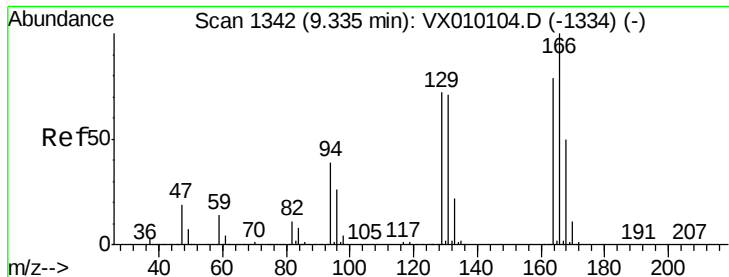
82 50.6 49.2 73.8

119 32.6 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VX010175.D (-1420) (-)





#64

Tetrachloroethene

Concen: 0.895 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW302S-20190606

Tot Ion:164 Resp: 2382

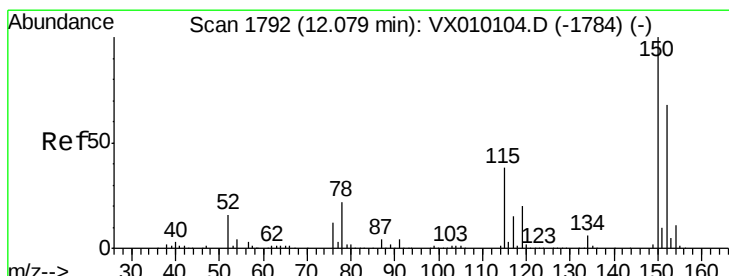
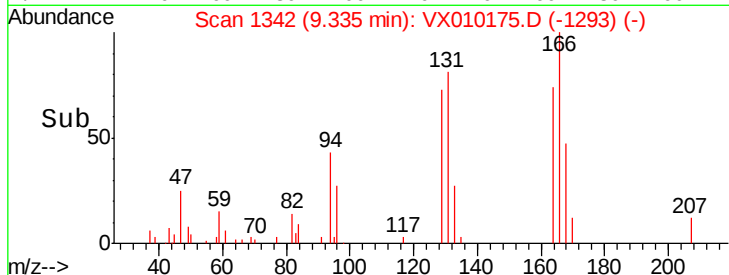
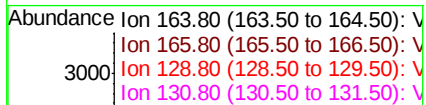
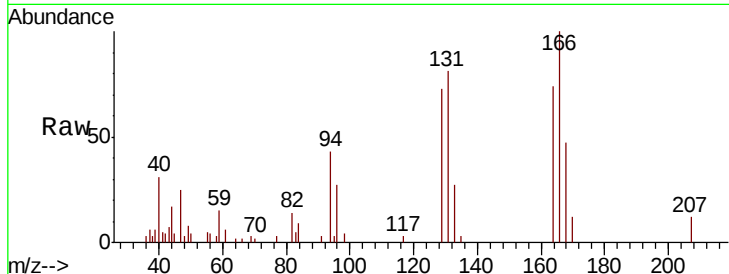
Ion Ratio Lower Upper

164 100

166 134.2 105.0 157.4

129 98.0 75.1 112.7

131 109.1 72.2 108.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010175.D

Acq: 10 Jun 2019 14:12

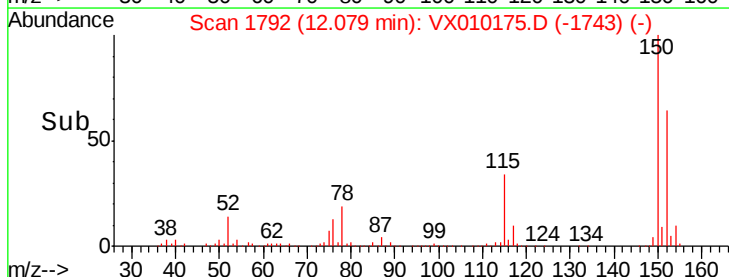
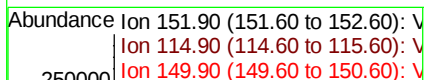
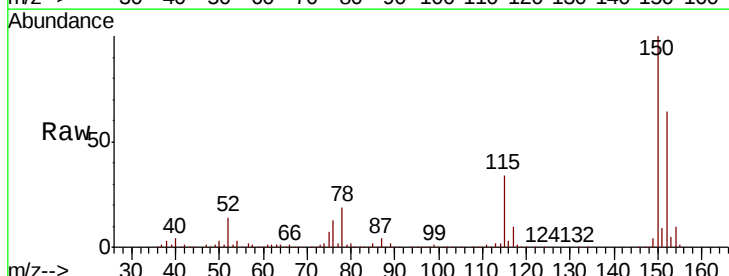
Tgt Ion:152 Resp: 166066

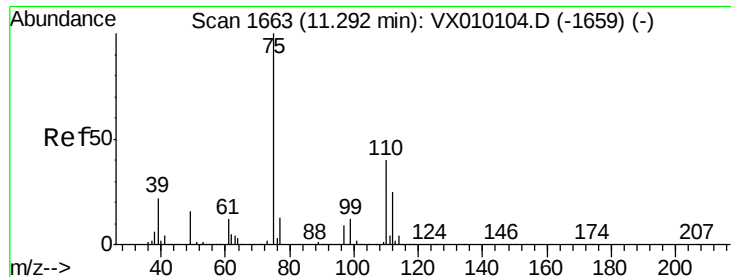
Ion Ratio Lower Upper

152 100

115 54.5 41.4 124.2

150 157.0 0.0 345.2

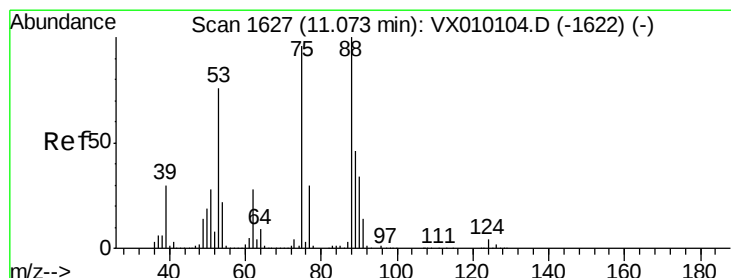
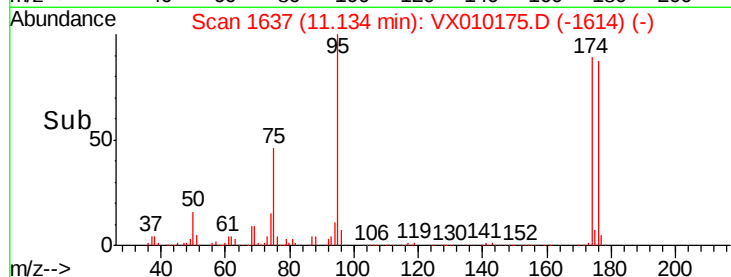
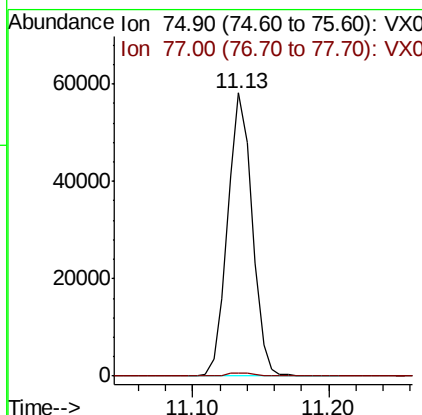
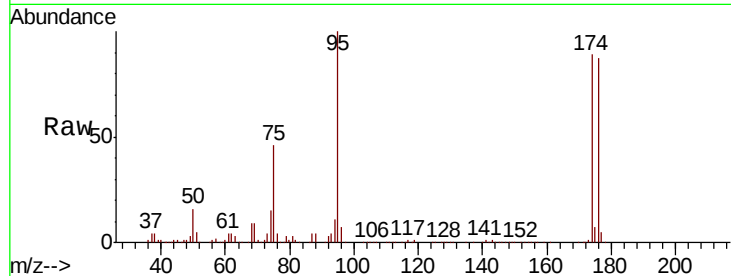




#76  
 1,2,3-Trichloropropane  
 Concen: 21.903 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX010175.D  
 Acq: 10 Jun 2019 14:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW302S-20190606

Tot Ion: 75 Resp: 72753  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 22.1 66.1#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 48.393 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX010175.D  
 Acq: 10 Jun 2019 14:12

Tgt Ion: 75 Resp: 72753  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.8 119.6#  
 89 0.0 34.2 51.4#

