

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032319\  
 Data File : VX008361.D  
 Acq On : 23 Mar 2019 19:43  
 Operator : JC/SP  
 Sample : K1937-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW314S-20190313

Quant Time: Mar 25 08:01:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 15:27:34 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 218270   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 381349   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 319116   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 126960   | 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   | 163337   | 49.06 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.12% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 119351   | 48.31 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.62% |          |
| 50) Toluene-d8              | 8.71  | 98   | 474979   | 48.60 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 156249   | 43.55 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.10% |          |

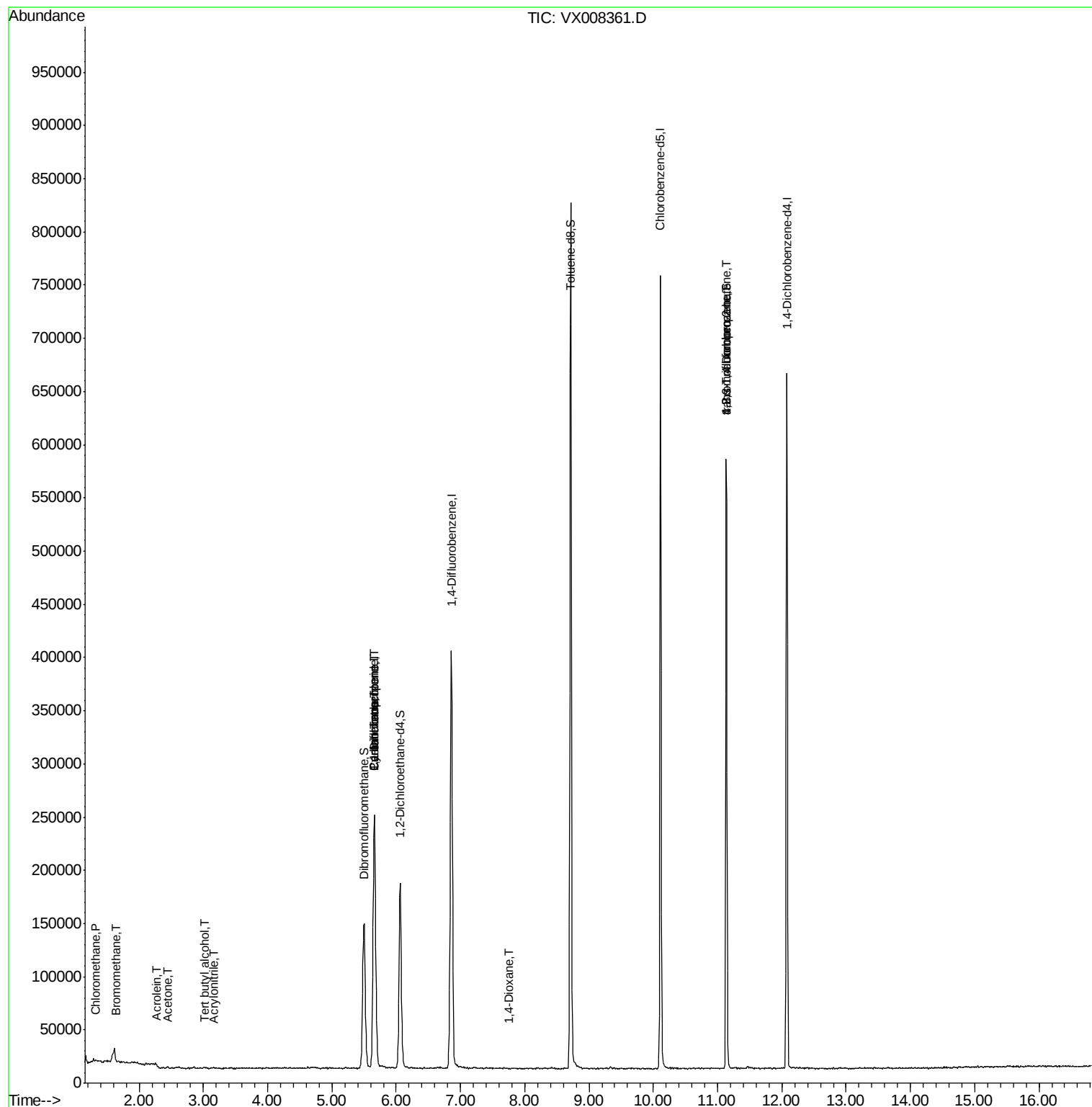
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1048     | 0.286  | ug/l # | 87     |
| 5) Bromomethane                | 1.64  | 94   | 466      | 0.207  | ug/l # | 70     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 621      | 0.837  | ug/l # | 87     |
| 13) Acrolein                   | 2.28  | 56   | 178      | 0.281  | ug/l # | 13     |
| 15) Acrylonitrile              | 3.17  | 53   | 499      | 0.263  | ug/l # | 34     |
| 16) Acetone                    | 2.44  | 43   | 1467     | 0.882  | ug/l # | 72     |
| 31) Cyclohexane                | 5.66  | 56   | 5763     | 1.101  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 19654    | 5.044  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 21992    | 6.584  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 21       | 0.251  | ug/l # | 22     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 80408    | 24.196 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 80408    | 68.953 | ug/l # | 12     |

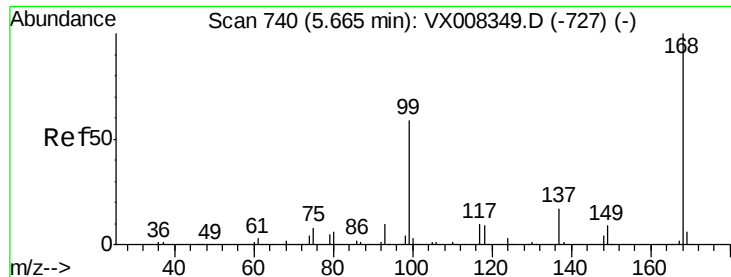
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BPS1-TT-MW314S-20190313

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 23 15:27:34 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: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

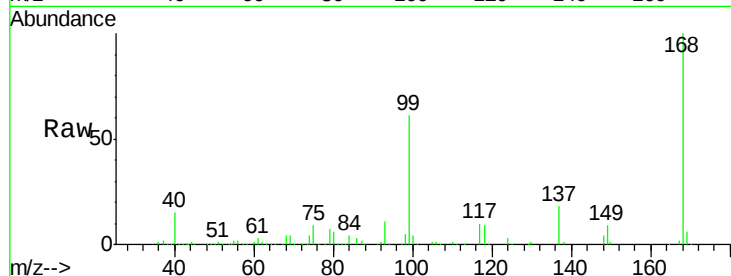
BPS1-TT-MW314S-20190313

Tot Ion:168 Resp: 218270

Ion Ratio Lower Upper

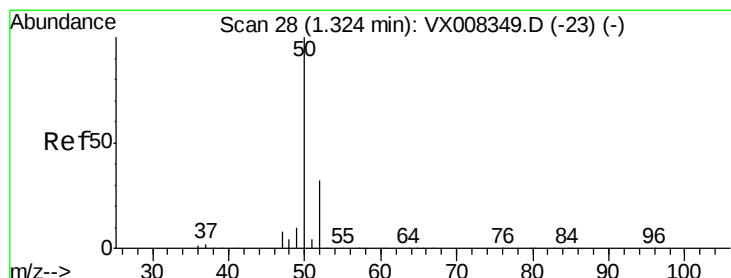
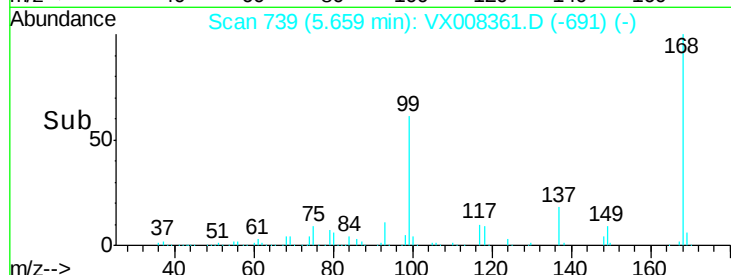
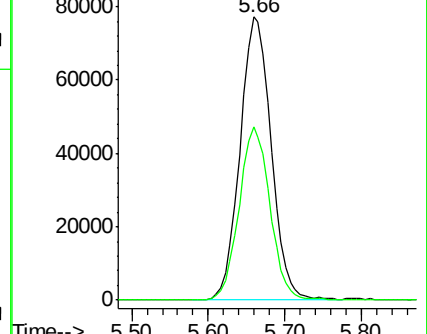
168 100

99 61.1 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.286 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008361.D

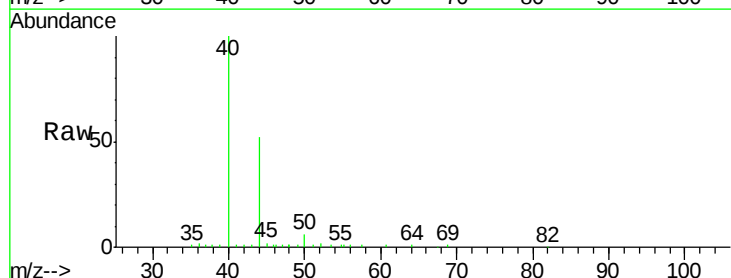
Acq: 23 Mar 2019 19:43

Tgt Ion: 50 Resp: 1048

Ion Ratio Lower Upper

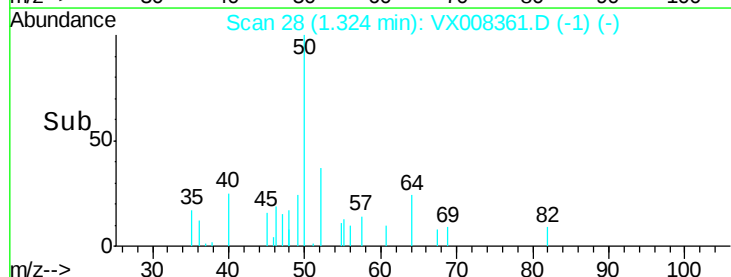
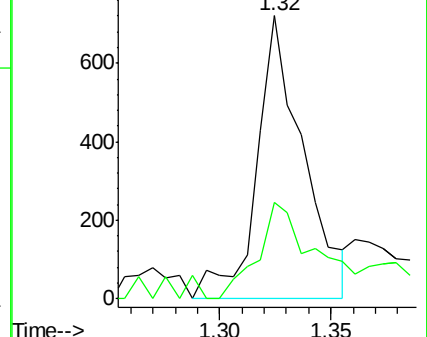
50 100

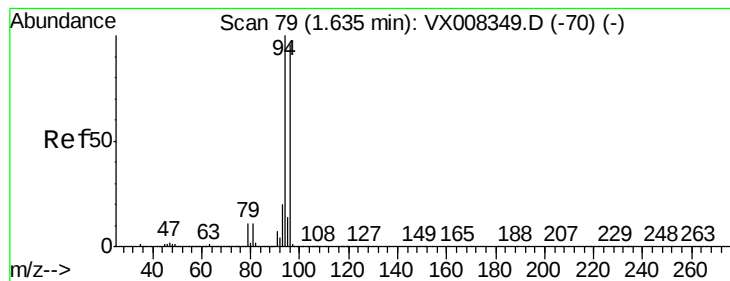
52 25.9 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.207 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

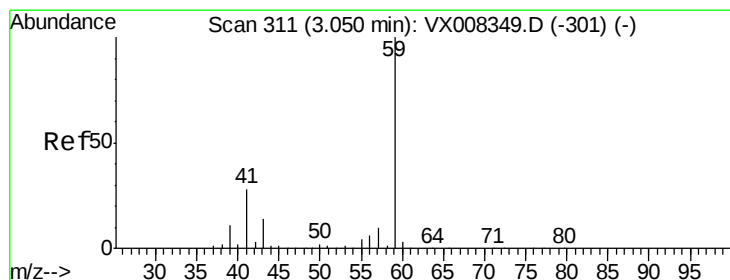
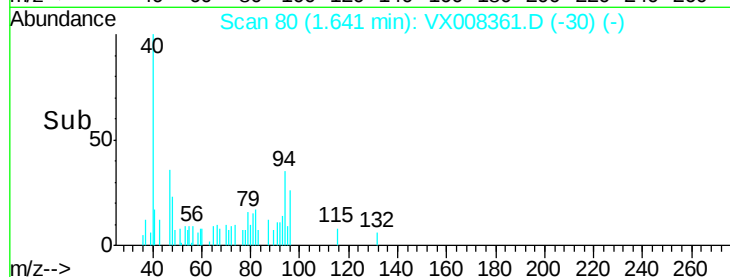
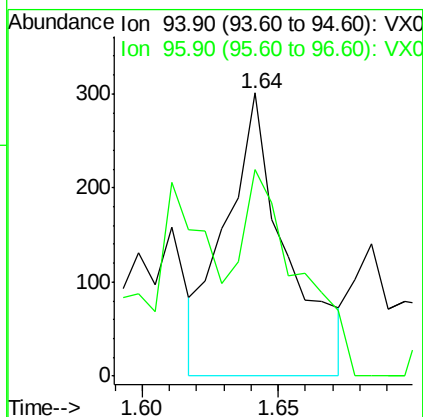
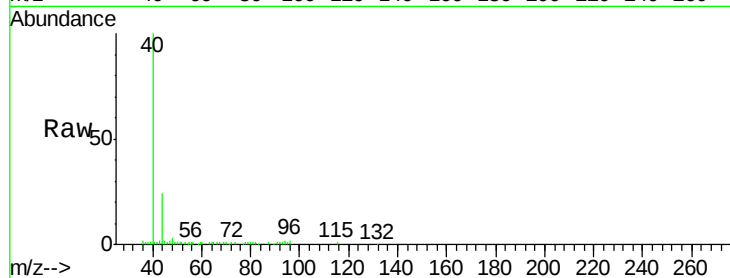
BPS1-TT-MW314S-20190313

Tot Ion: 94 Resp: 466

Ion Ratio Lower Upper

94 100

96 65.1 75.5 113.3#



#11

Tert butyl alcohol

Concen: 0.837 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.04 min

Lab File: VX008361.D

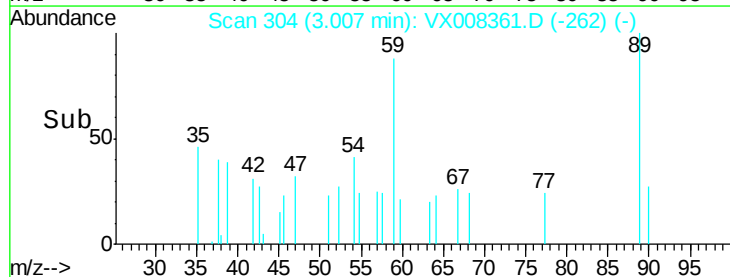
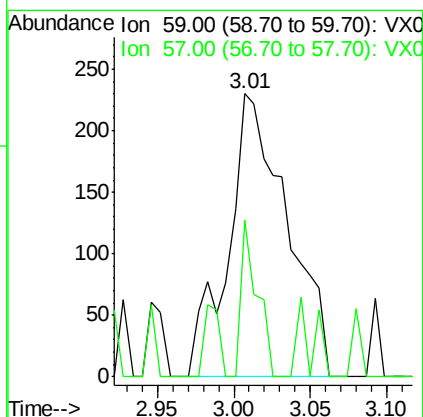
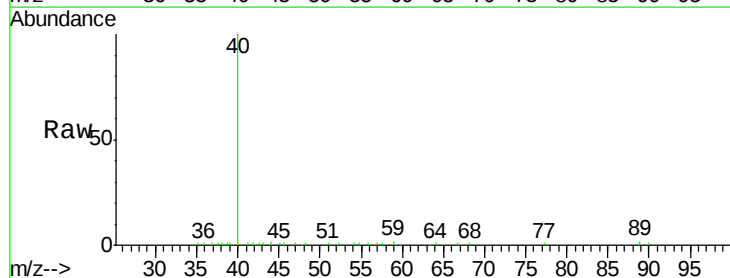
Acq: 23 Mar 2019 19:43

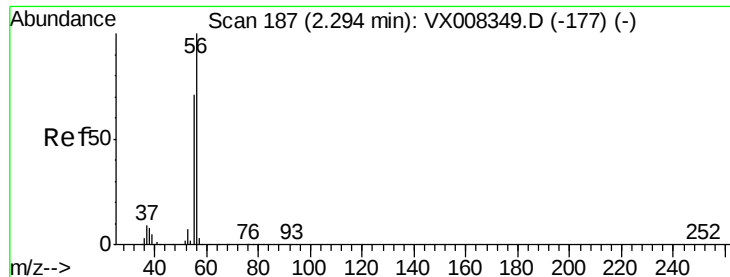
Tgt Ion: 59 Resp: 621

Ion Ratio Lower Upper

59 100

57 15.1 8.2 12.2#





#13

Acrolein

Concen: 0.281 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

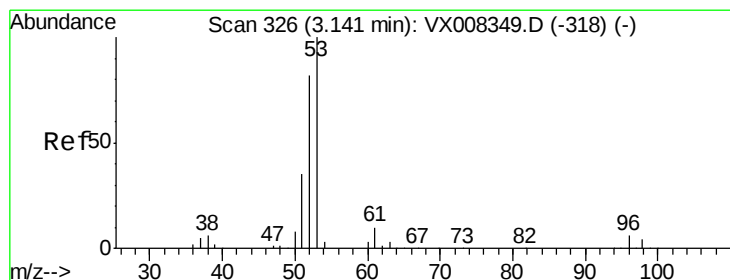
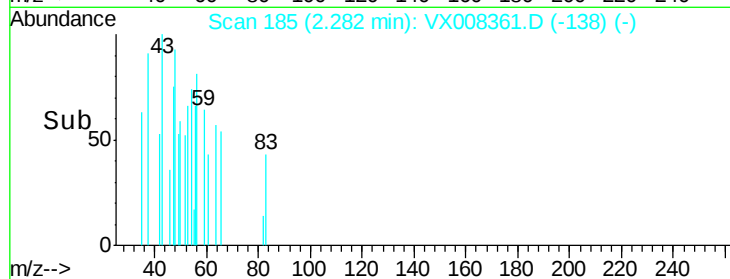
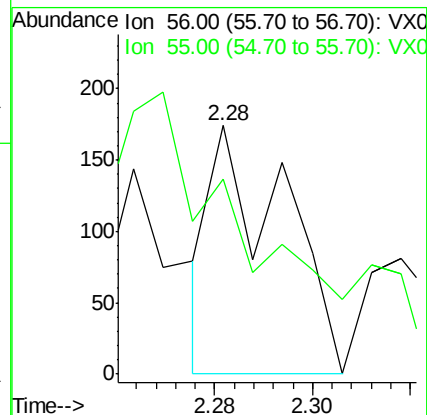
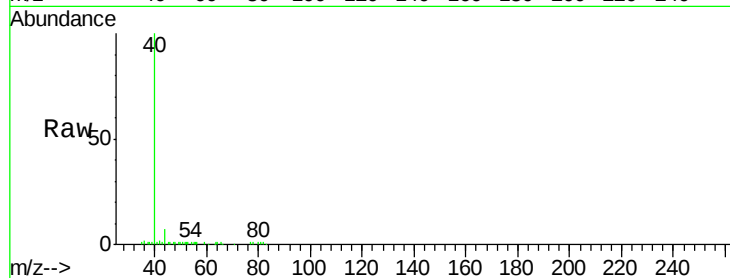
BPS1-TT-MW314S-20190313

Tot Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



#15

Acrylonitrile

Concen: 0.263 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.02 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

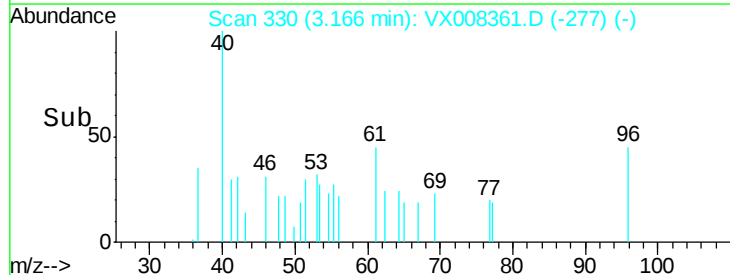
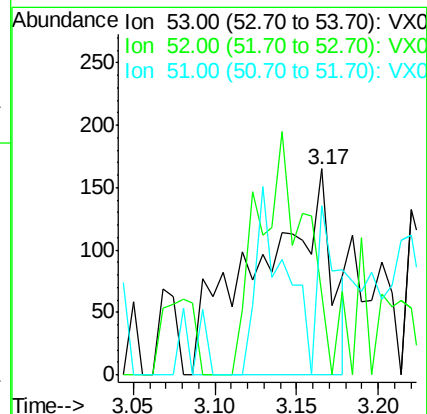
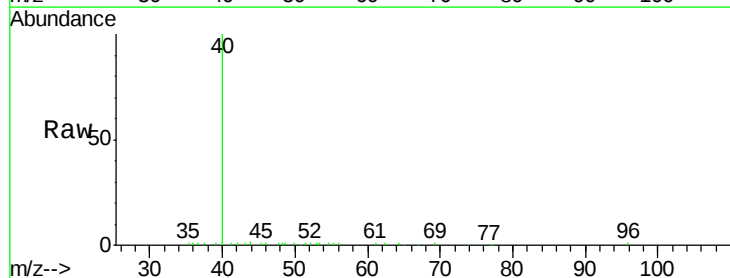
Tgt Ion: 53 Resp: 499

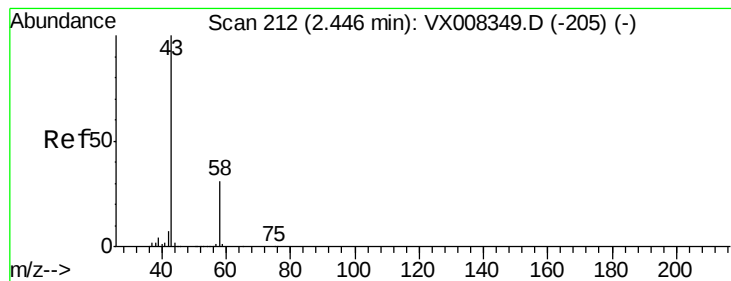
Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

51 32.7 28.0 42.0





#16

Acetone

Concen: 0.882 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

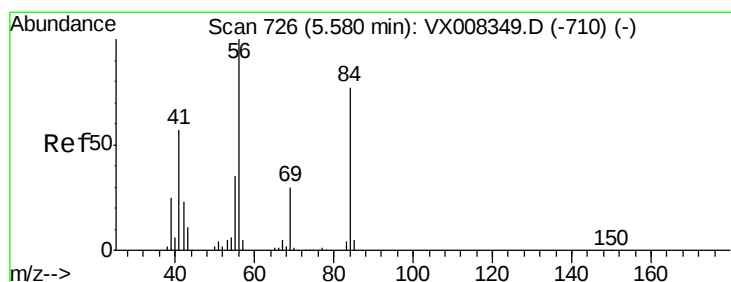
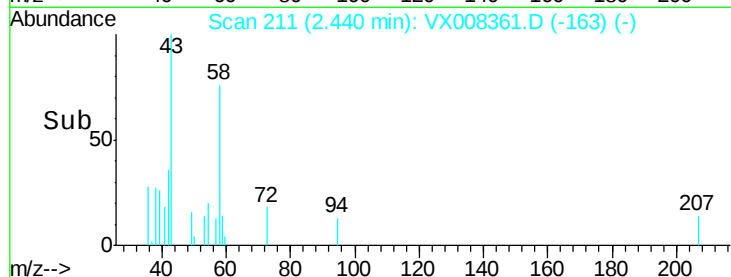
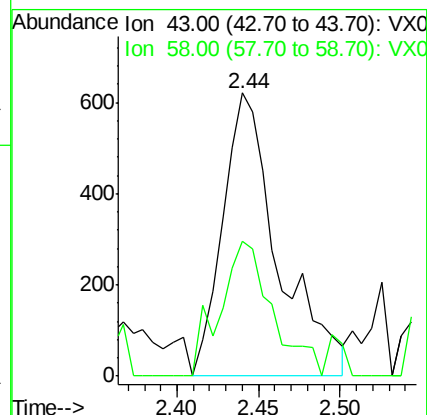
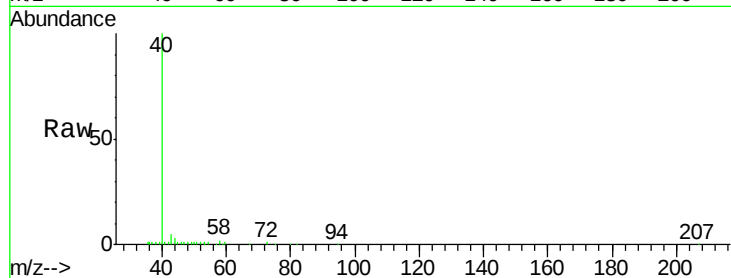
BPS1-TT-MW314S-20190313

Tot Ion: 43 Resp: 1467

Ion Ratio Lower Upper

43 100

58 47.5 25.5 38.3#



#31

Cyclohexane

Concen: 1.101 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

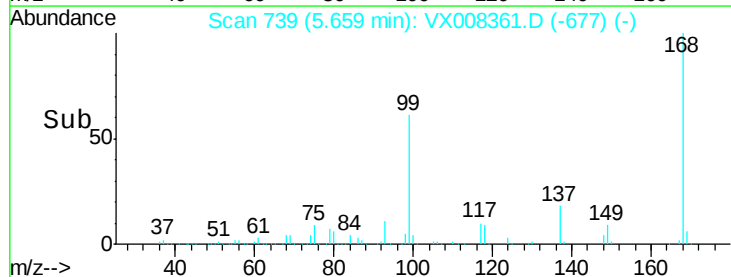
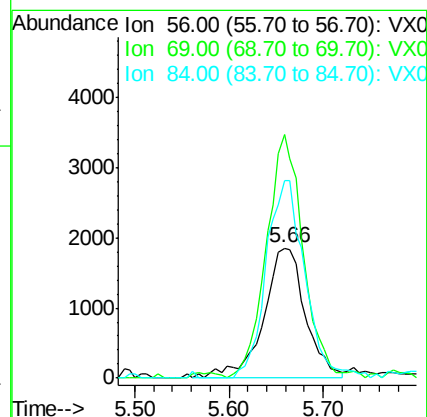
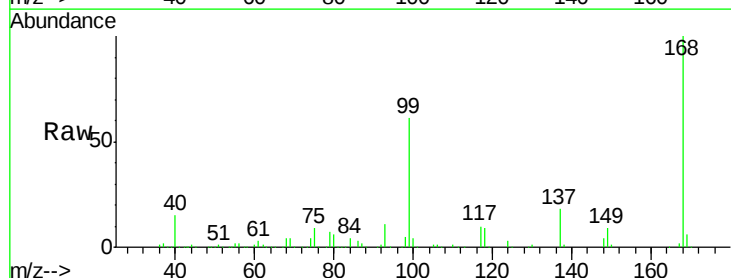
Tgt Ion: 56 Resp: 5763

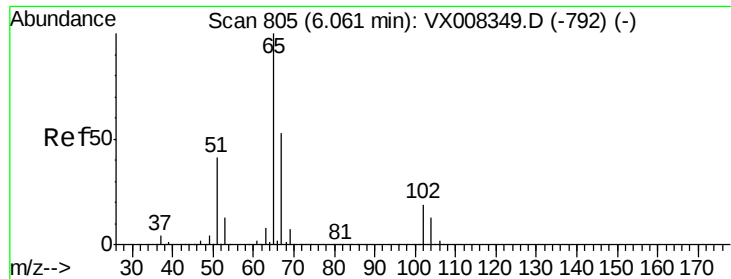
Ion Ratio Lower Upper

56 100

69 183.6 24.0 36.0#

84 147.0 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 49.064 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

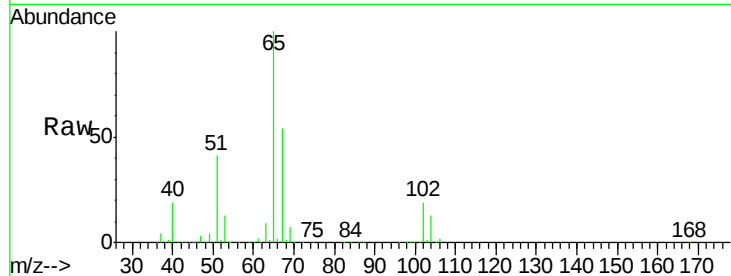
BPS1-TT-MW314S-20190313

Tot Ion: 65 Resp: 163337

Ion Ratio Lower Upper

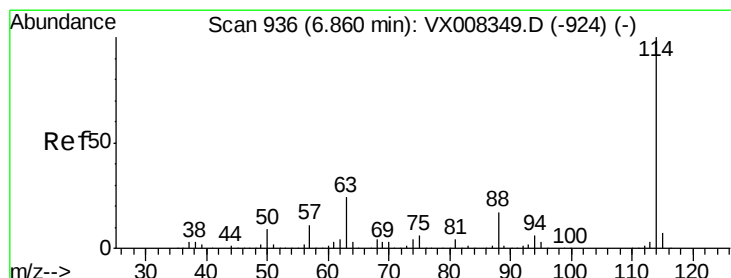
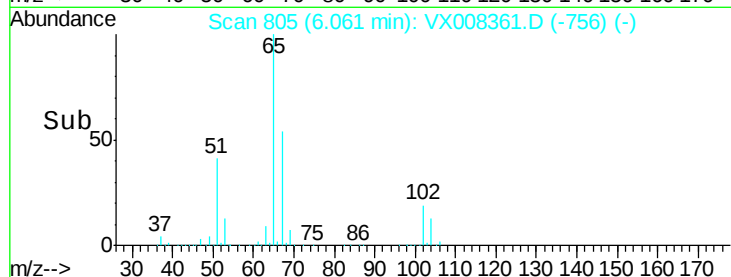
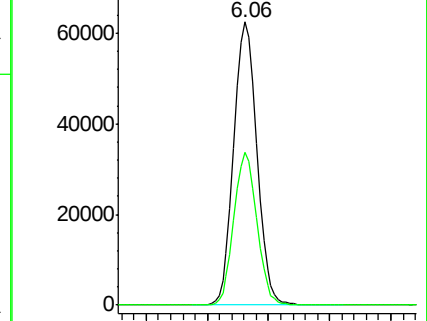
65 100

67 53.6 0.0 110.0



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: VX008361.D

Acq: 23 Mar 2019 19:43

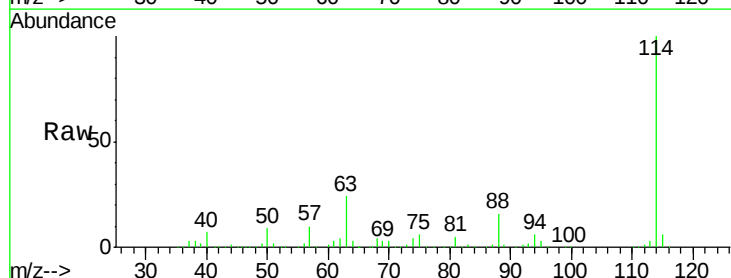
Tgt Ion: 114 Resp: 381349

Ion Ratio Lower Upper

114 100

63 23.5 0.0 39.8

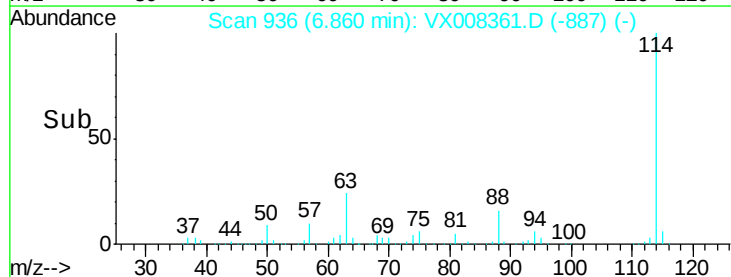
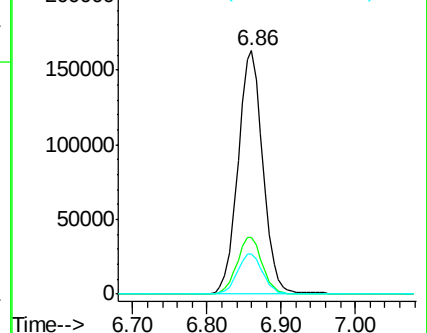
88 16.5 0.0 31.4

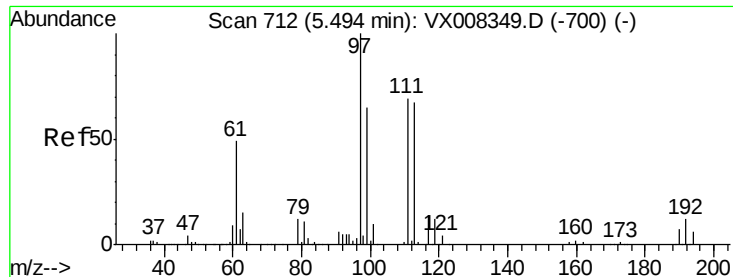


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.306 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

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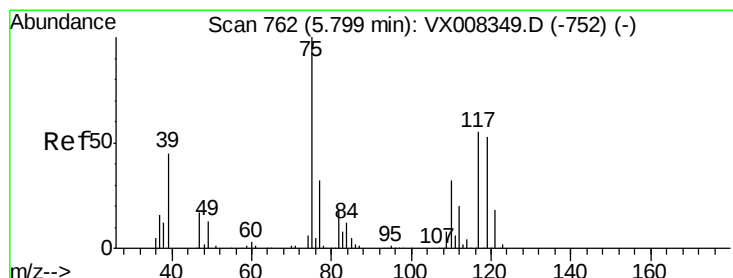
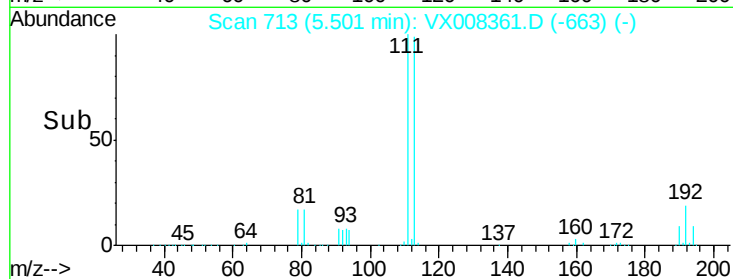
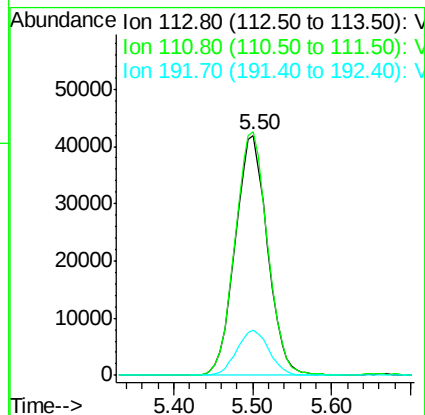
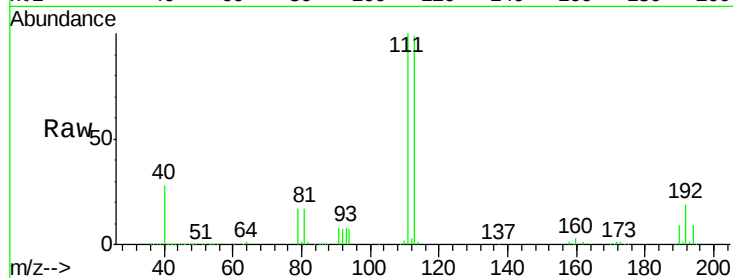
Tot Ion:113 Resp: 119351

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

192 18.9 19.4 29.0#



#36

1,1-Dichloropropene

Concen: 5.044 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

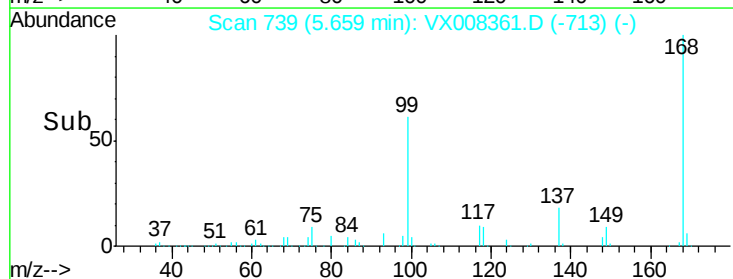
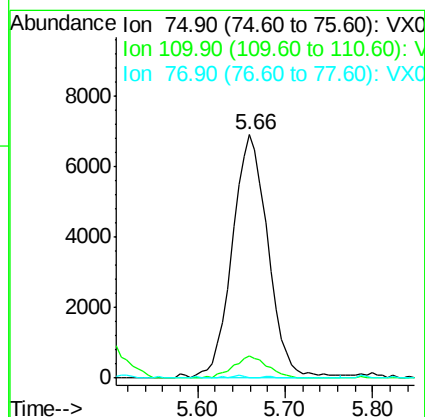
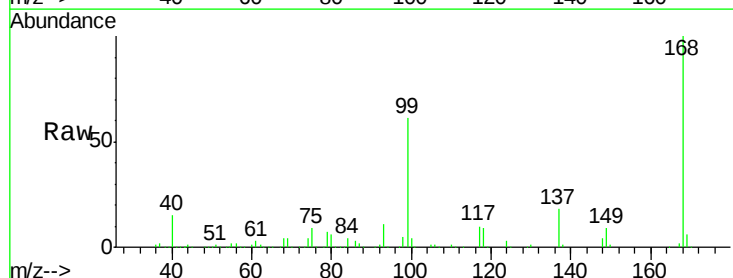
Tgt Ion: 75 Resp: 19654

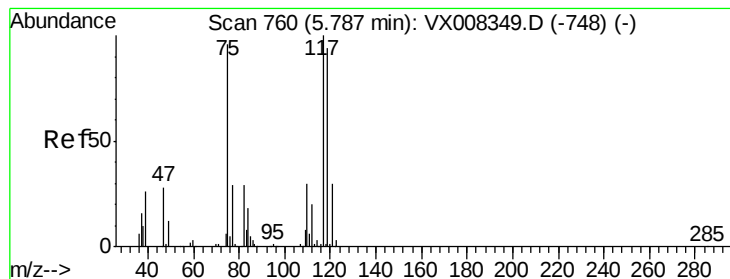
Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.0#

77 0.4 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.584 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW314S-20190313

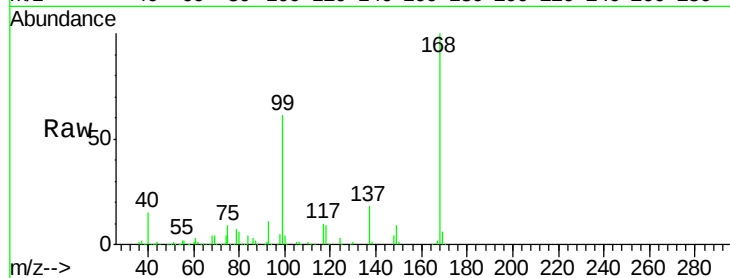
Tot Ion:117 Resp: 21992

Ion Ratio Lower Upper

117 100

119 4.2 76.2 114.2#

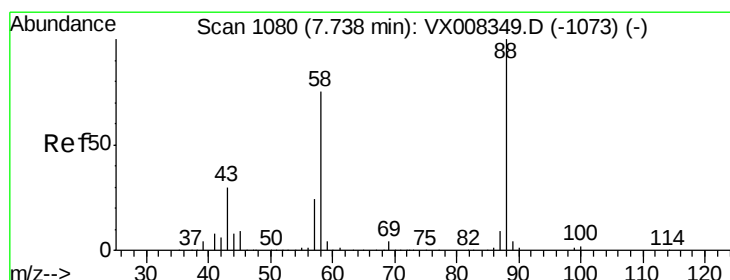
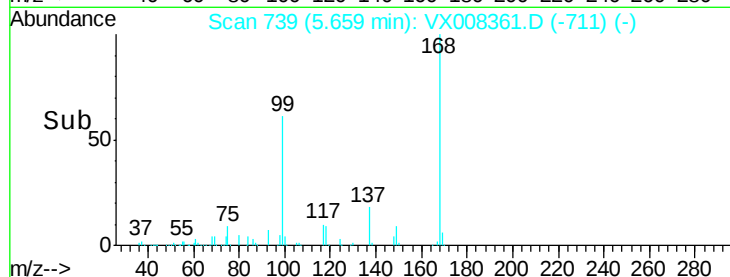
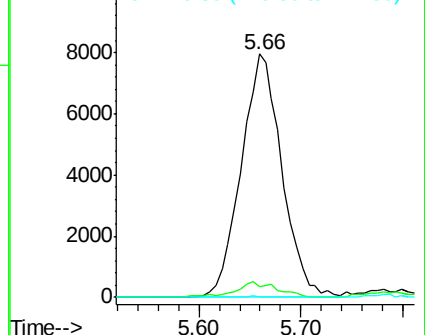
121 0.0 24.6 36.8#



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: 0.251 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

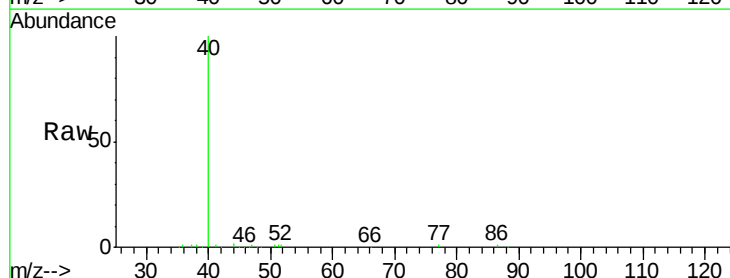
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

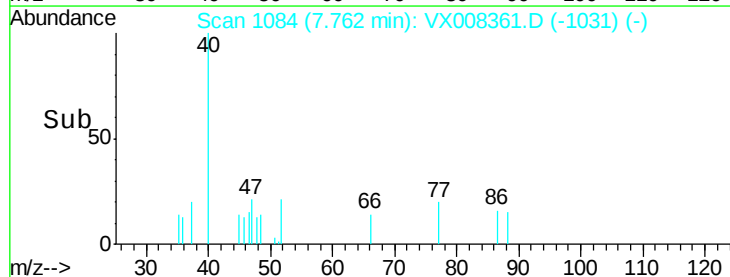
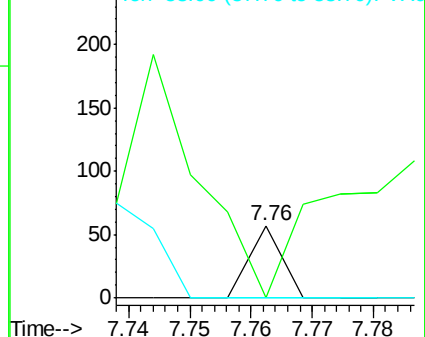
58 0.0 57.8 86.6#

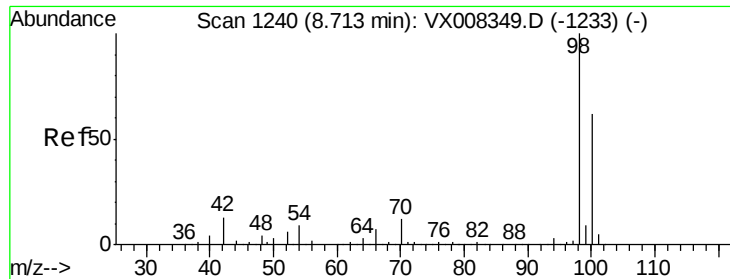


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.604 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

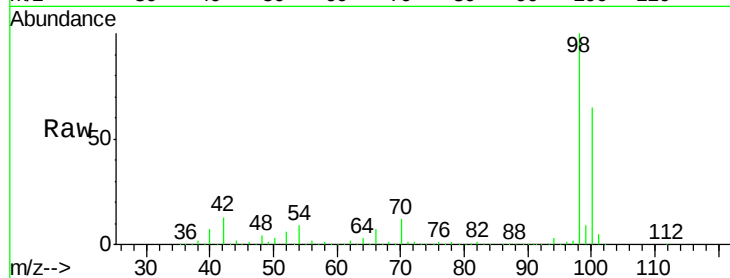
BPS1-TT-MW314S-20190313

Tot Ion: 98 Resp: 474979

Ion Ratio Lower Upper

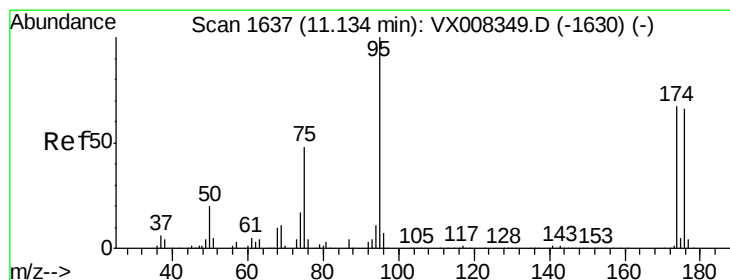
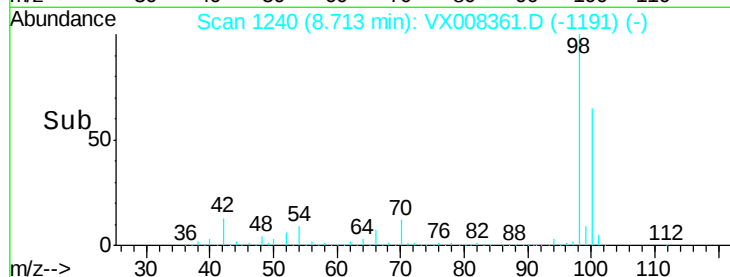
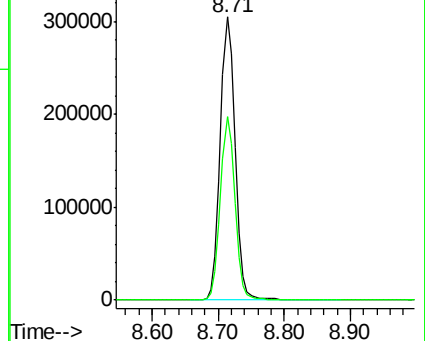
98 100

100 63.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.547 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

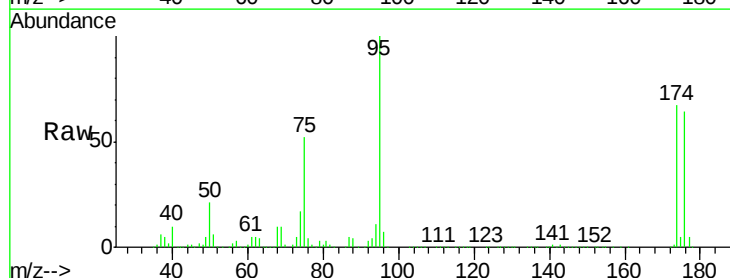
Tgt Ion: 95 Resp: 156249

Ion Ratio Lower Upper

95 100

174 72.4 0.0 182.8

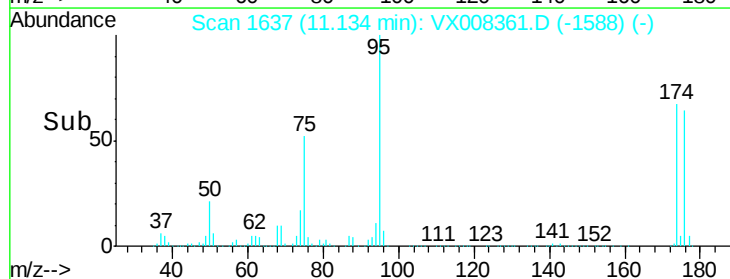
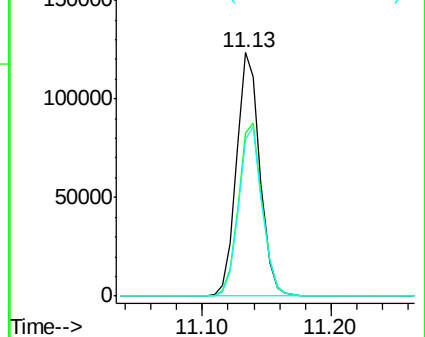
176 69.7 0.0 178.0

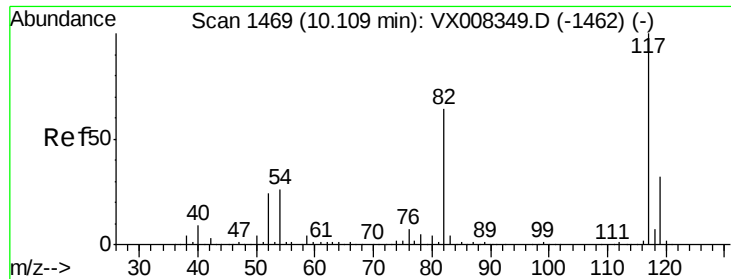


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

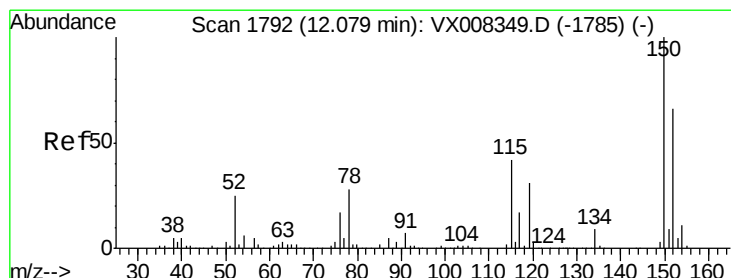
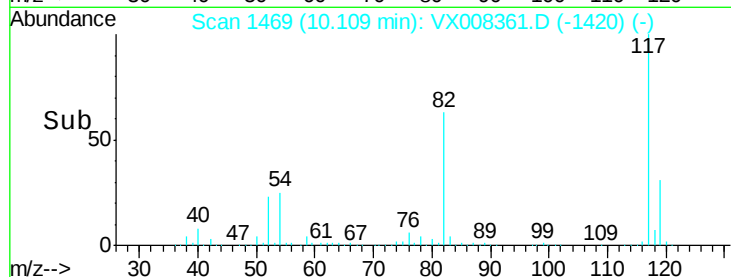
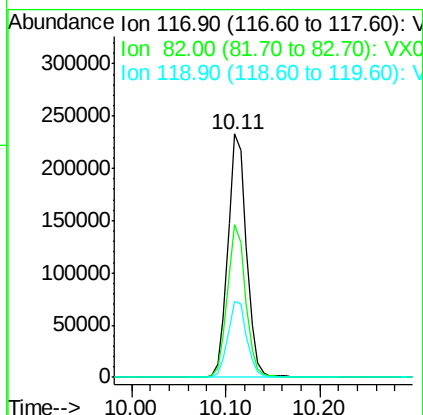
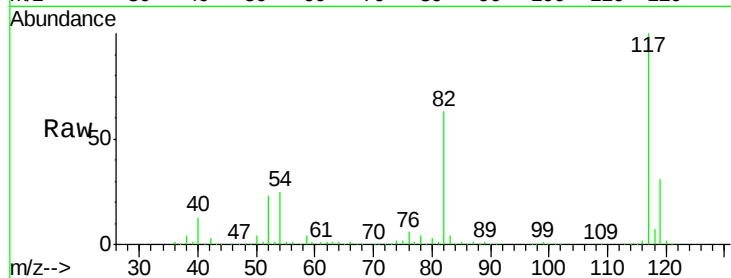




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX008361.D  
Acq: 23 Mar 2019 19:43

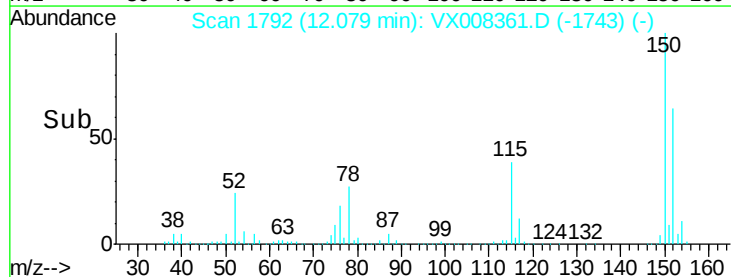
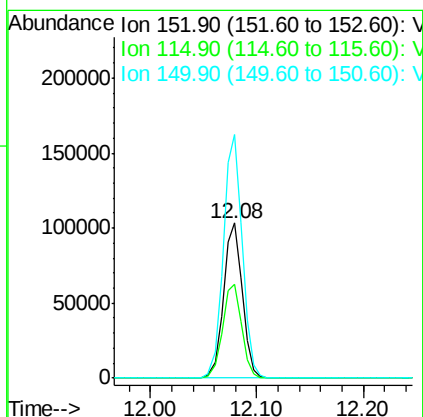
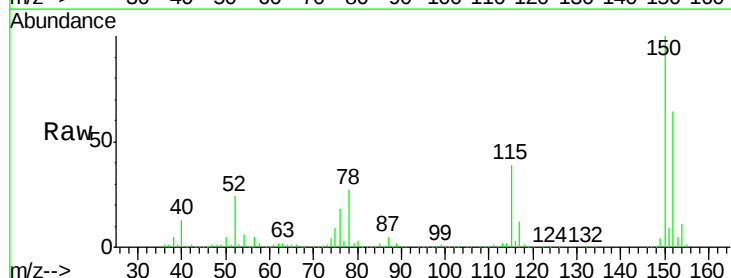
Instrument :  
MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW314S-20190313

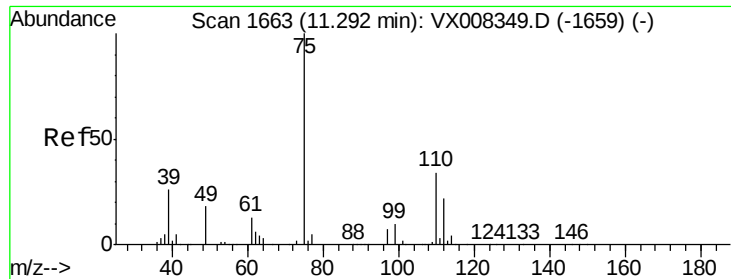
Tot Ion:117 Resp: 319116  
Ion Ratio Lower Upper  
117 100  
82 62.6 44.3 66.5  
119 31.4 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX008361.D  
Acq: 23 Mar 2019 19:43

Tgt Ion:152 Resp: 126960  
Ion Ratio Lower Upper  
152 100  
115 61.9 38.6 115.7  
150 157.8 0.0 348.4





#76

1,2,3-Trichloropropane

Concen: 24.196 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

Instrument :

MSVOA\_X

ClientSampleId :

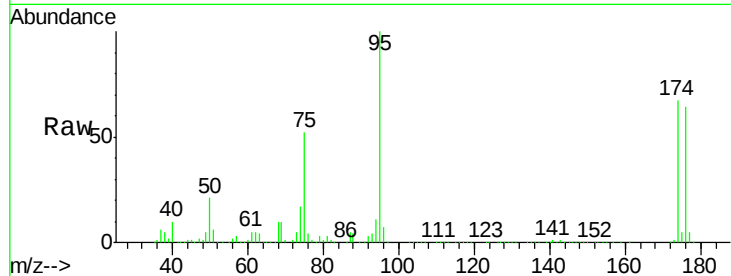
BPS1-TT-MW314S-20190313

Tot Ion: 75 Resp: 80408

Ion Ratio Lower Upper

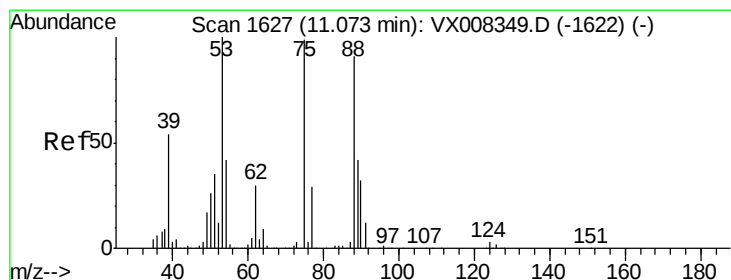
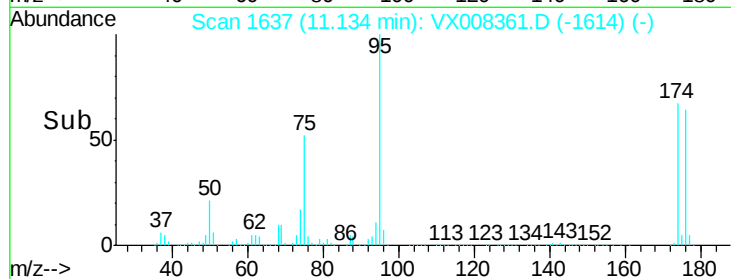
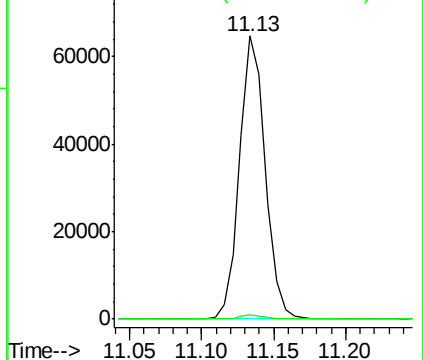
75 100

77 1.4 18.9 56.7#



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: 68.953 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008361.D

Acq: 23 Mar 2019 19:43

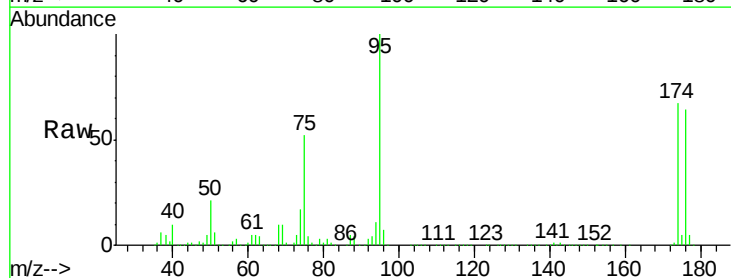
Tgt Ion: 75 Resp: 80408

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.1 36.3 54.5#



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

