

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\  
 Data File : VX009508.D  
 Acq On : 11 May 2019 01:54  
 Operator : JC/SP  
 Sample : K2805-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Quant Time: May 11 03:35:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 183335   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 292321   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 255480   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 109796   | 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   | 120847   | 48.29 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.58% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 89828    | 48.88 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.76% |          |
| 50) Toluene-d8              | 8.71  | 98   | 364114   | 49.08 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.16% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 120929   | 44.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.72% |          |

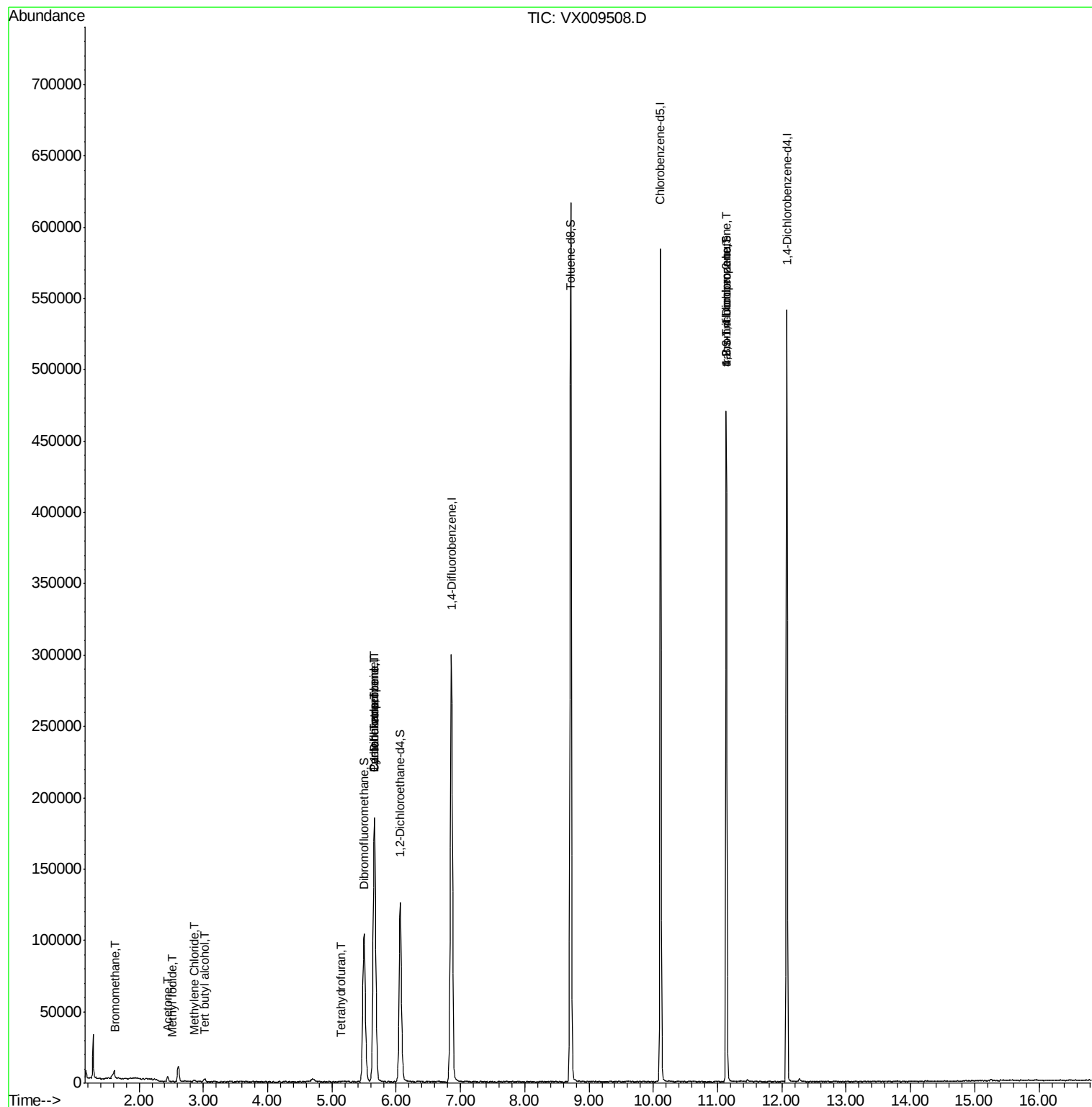
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 293      | 0.217     | ug/l # | 4      |
| 10) Methyl Iodide              | 2.53  | 142  | 27       | 4.606     | ug/l # | 42     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 1236     | 2.134     | ug/l # | 73     |
| 16) Acetone                    | 2.45  | 43   | 4261     | 3.171     | ug/l   | 94     |
| 20) Methylene Chloride         | 2.86  | 84   | 505      | 0.232     | ug/l # | 93     |
| 28) Bromochloromethane         | 4.99  | 49   | 68       | Below Cal | #      | 20     |
| 29) Tetrahydrofuran            | 5.14  | 42   | 269      | 0.200     | ug/l # | 89     |
| 31) Cyclohexane                | 5.66  | 56   | 3953     | 1.068     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14126    | 5.200     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 16872    | 6.836     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 62215    | 24.428    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 62215    | 62.502    | ug/l # | 10     |

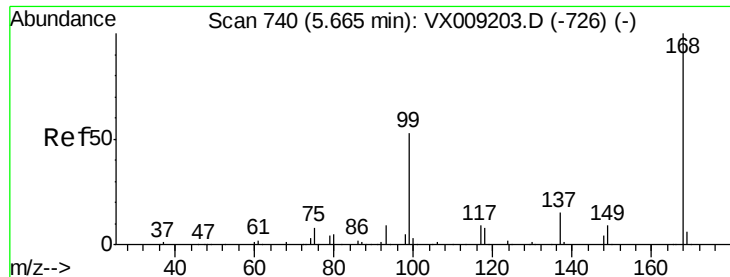
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051019\  
Data File : VX009508.D  
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Operator : JC/SP  
Sample : K2805-02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Quant Time: May 11 03:35:01 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 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: VX009508.D

Acq: 11 May 2019 01:54

Instrument :

MSVOA\_X

ClientSampleId :

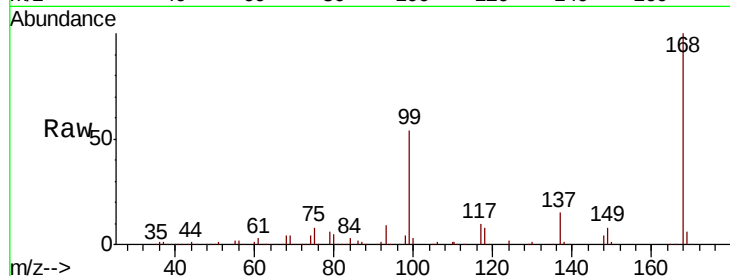
STORAGE-BLANK-WATER-REF-5

Tot Ion:168 Resp: 183335

Ion Ratio Lower Upper

168 100

99 54.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

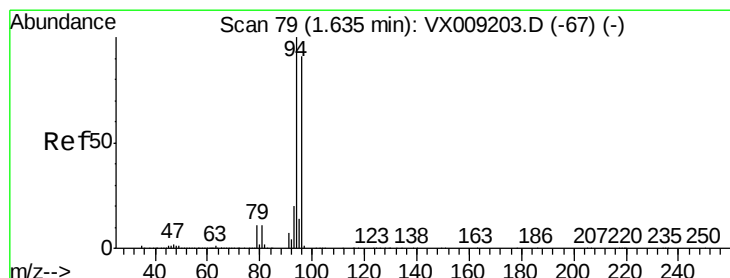
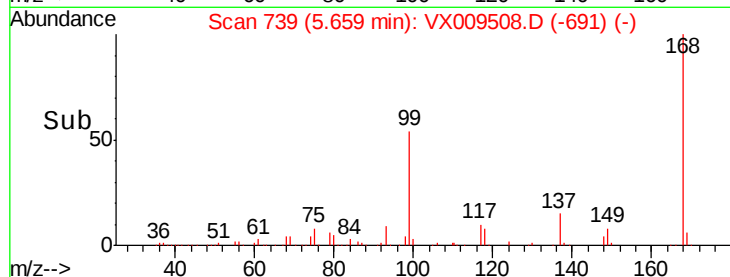
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.217 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX009508.D

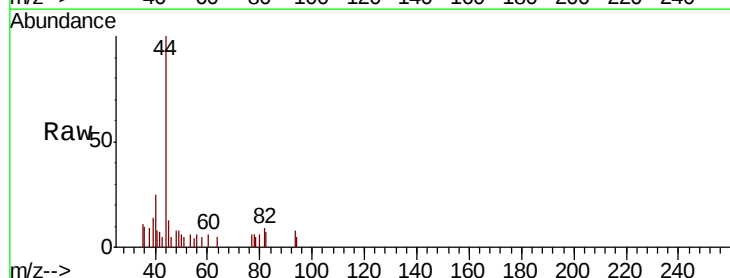
Acq: 11 May 2019 01:54

Tgt Ion: 94 Resp: 293

Ion Ratio Lower Upper

94 100

96 0.0 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

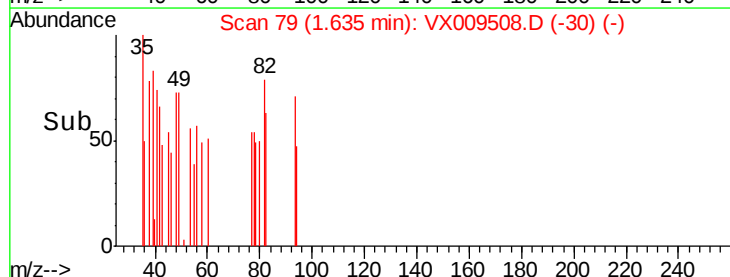
150

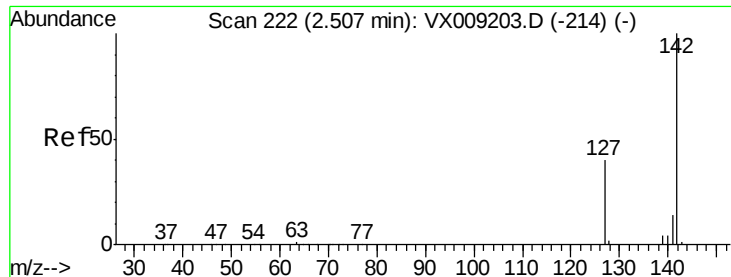
100

50

0

Time--> 1.62 1.64 1.66 1.68

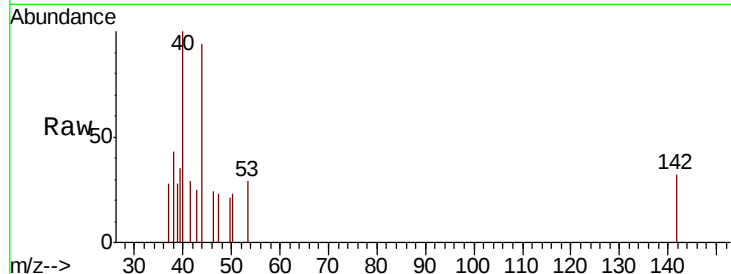




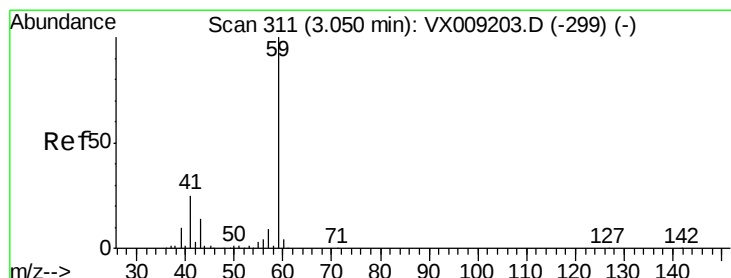
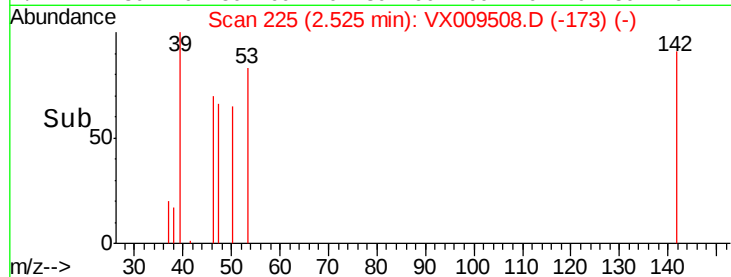
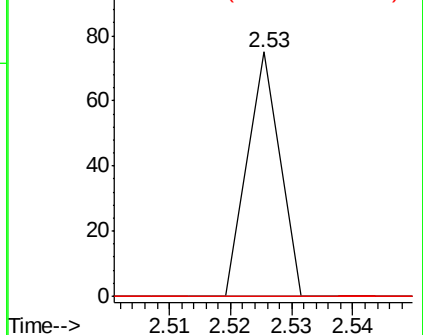
#10  
Methvl Iodide  
Concen: 4.606 ug/l  
RT: 2.53 min Scan# 225  
Delta R.T. 0.02 min  
Lab File: VX009508.D  
Acq: 11 May 2019 01:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Tot Ion:142 Resp: 27  
Ion Ratio Lower Upper  
142 100  
127 0.0 32.7 49.1#  
141 0.0 11.5 17.3#

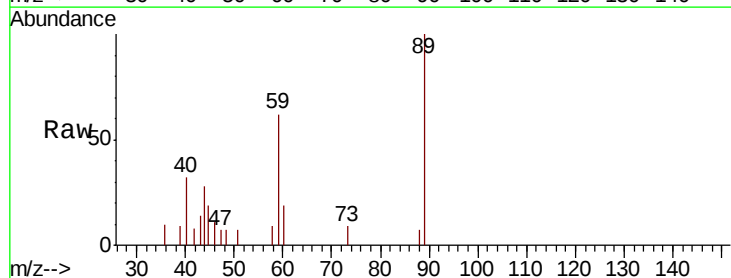


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

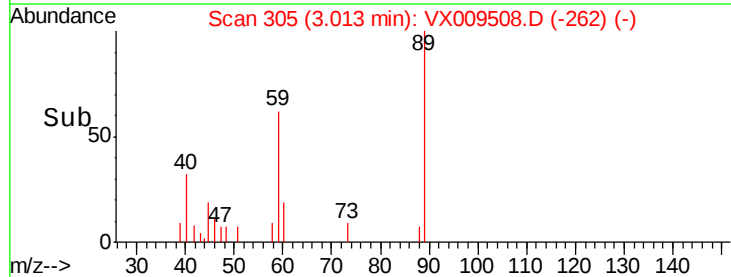
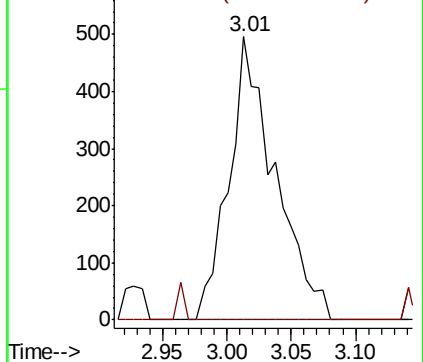


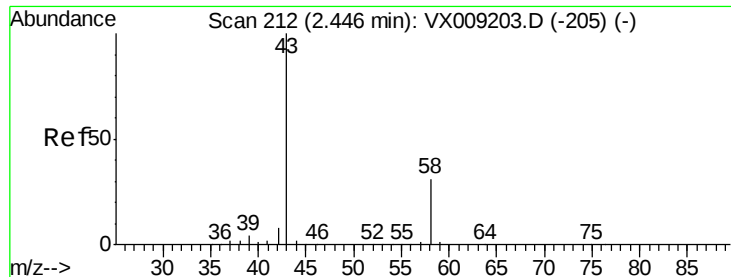
#11  
Tert butyl alcohol  
Concen: 2.134 ug/l  
RT: 3.01 min Scan# 305  
Delta R.T. -0.04 min  
Lab File: VX009508.D  
Acq: 11 May 2019 01:54

Tgt Ion: 59 Resp: 1236  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0

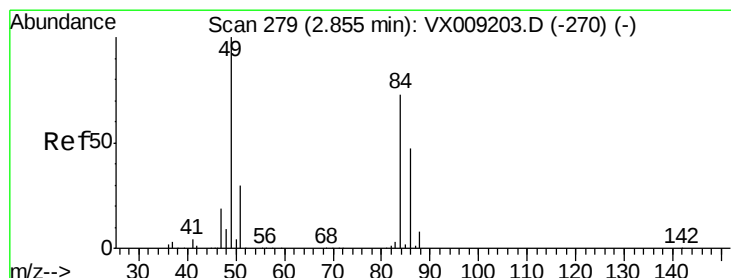
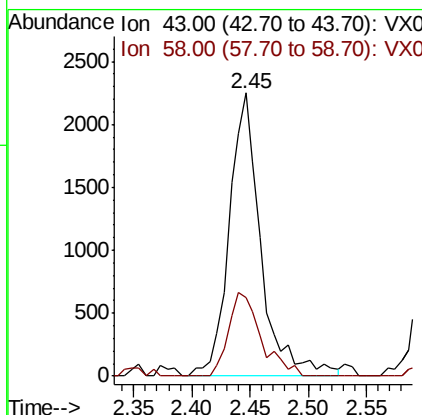
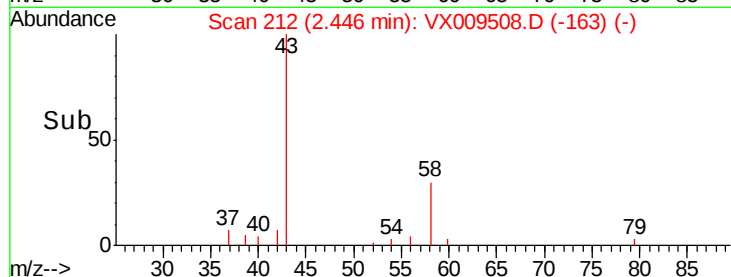
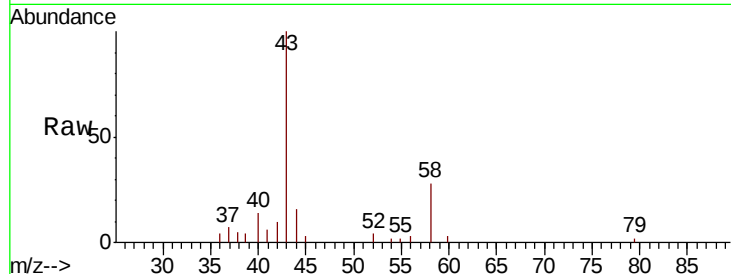




#16  
Acetone  
Concen: 3.171 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX009508.D  
Acq: 11 May 2019 01:54

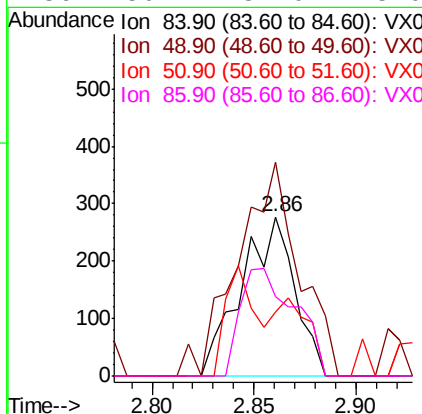
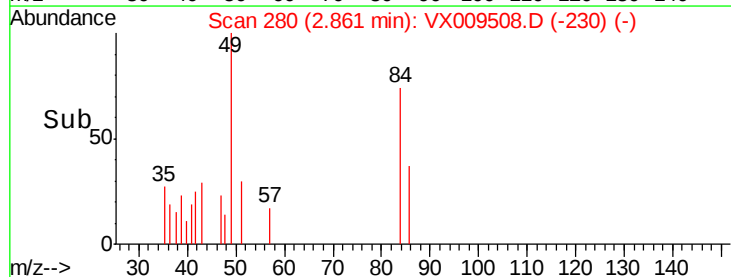
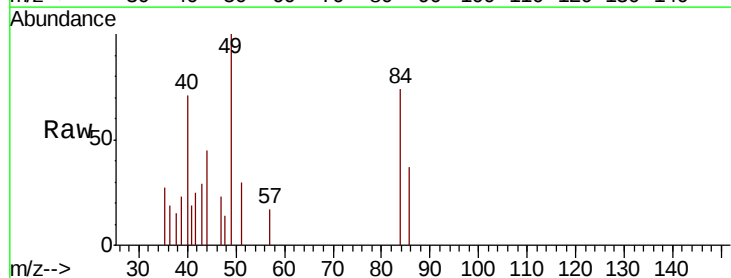
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

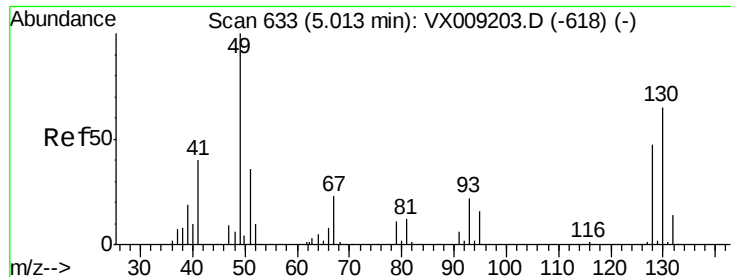
Tot Ion: 43 Resp: 4261  
Ion Ratio Lower Upper  
43 100  
58 27.9 24.9 37.3



#20  
Methylene Chloride  
Concen: 0.232 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.01 min  
Lab File: VX009508.D  
Acq: 11 May 2019 01:54

Tgt Ion: 84 Resp: 505  
Ion Ratio Lower Upper  
84 100  
49 134.3 109.9 164.9  
51 40.1 32.7 49.1  
86 50.2 52.0 78.0#





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

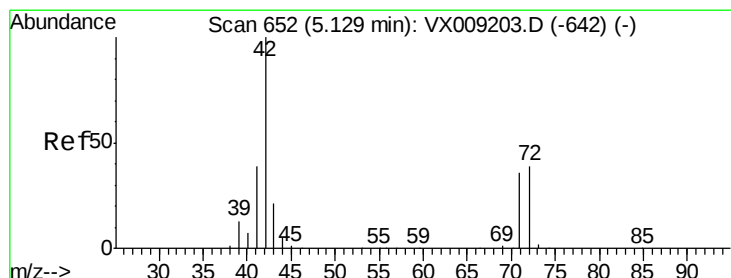
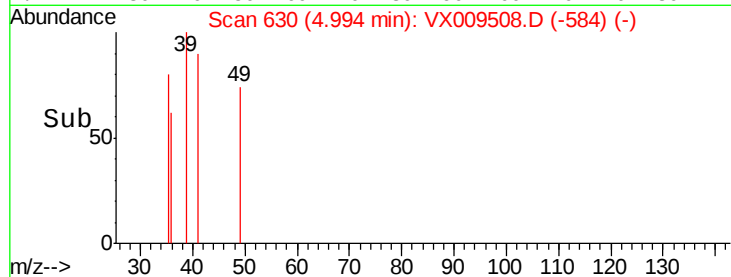
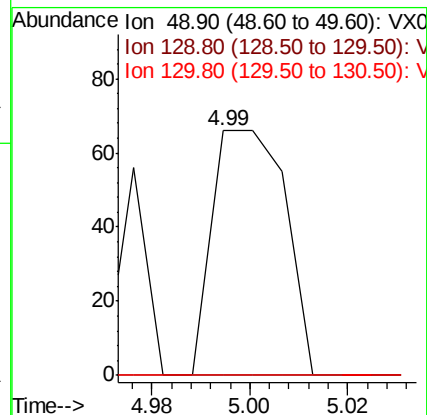
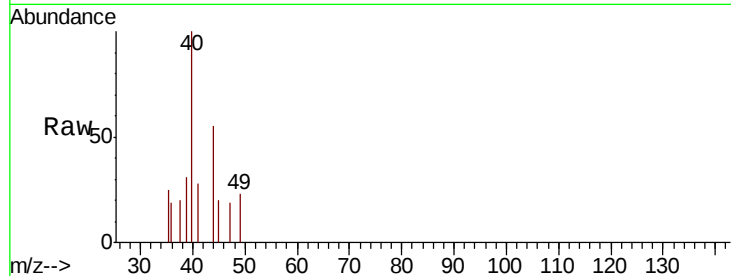
Tot Ion: 49 Resp: 68

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



#29

Tetrahydrofuran

Concen: 0.200 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

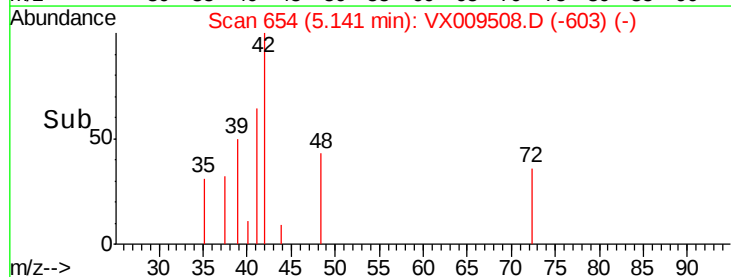
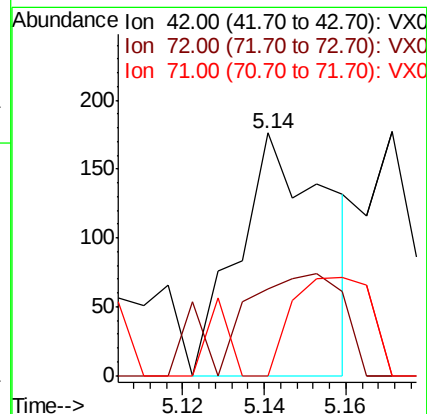
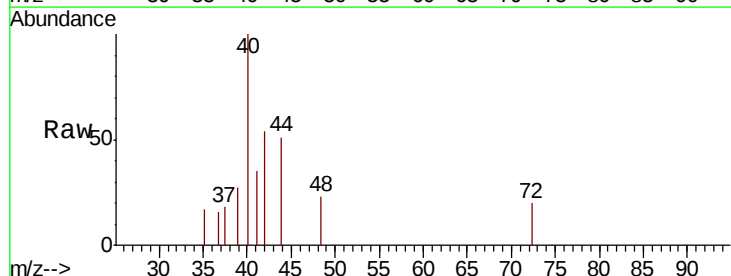
Tgt Ion: 42 Resp: 269

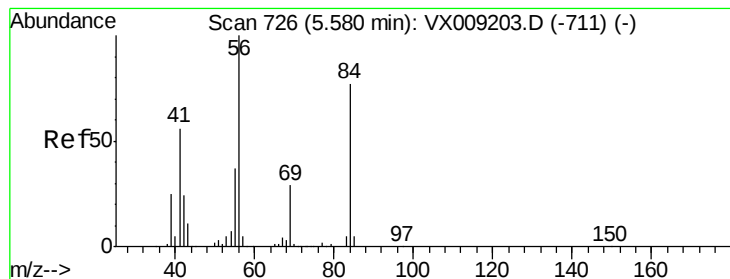
Ion Ratio Lower Upper

42 100

72 51.3 30.4 45.6#

71 35.7 28.6 43.0





#31

Cyclohexane

Concen: 1.068 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

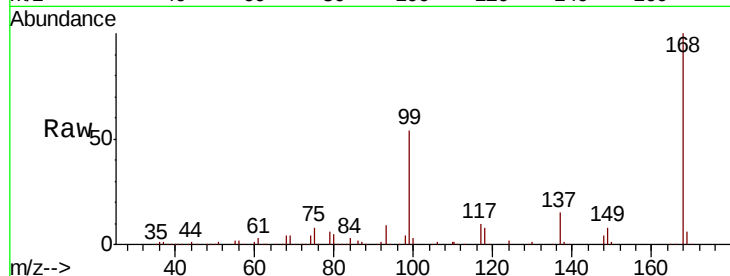
Tot Ion: 56 Resp: 3953

Ion Ratio Lower Upper

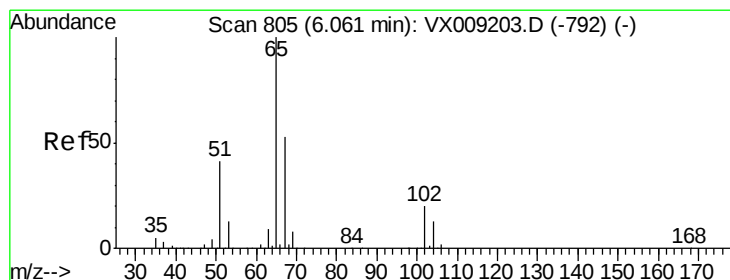
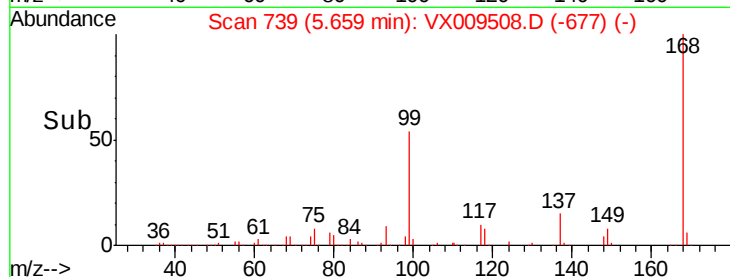
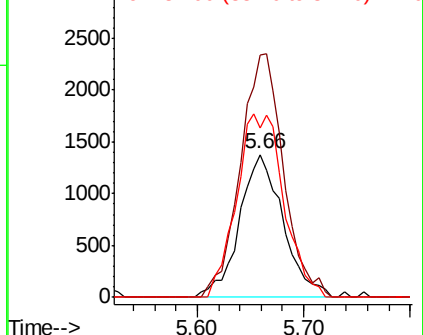
56 100

69 169.3 23.4 35.0#

84 118.7 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.286 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009508.D

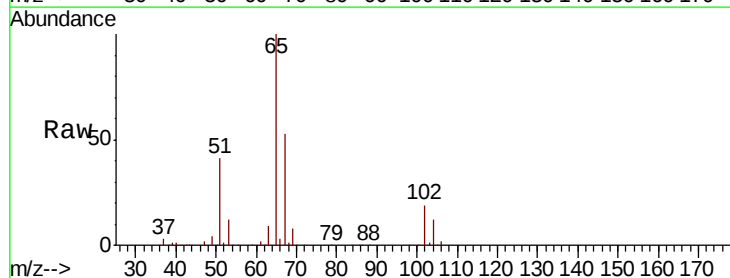
Acq: 11 May 2019 01:54

Tgt Ion: 65 Resp: 120847

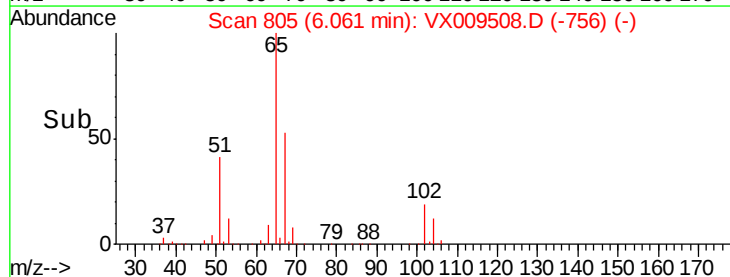
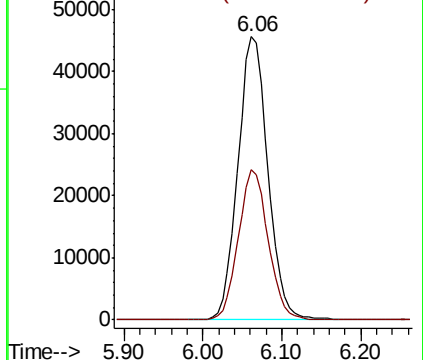
Ion Ratio Lower Upper

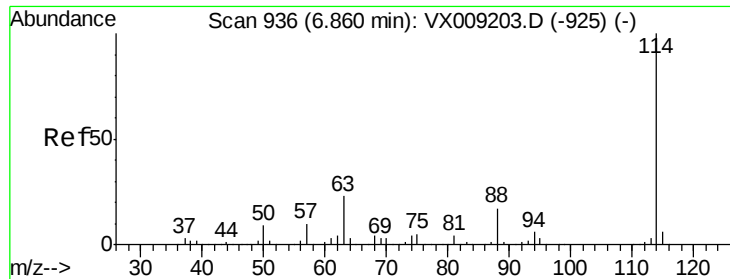
65 100

67 52.6 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

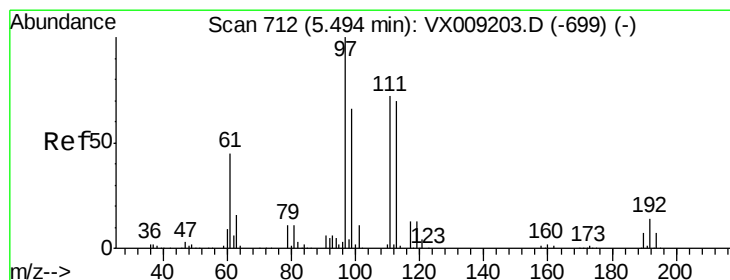
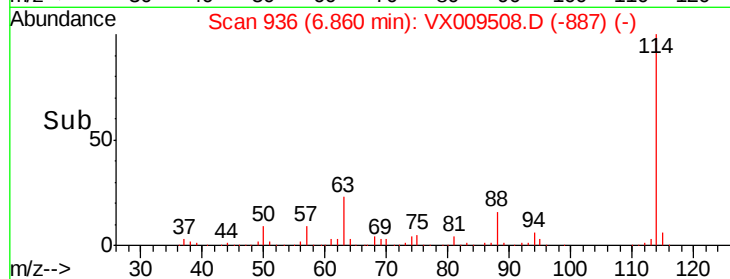
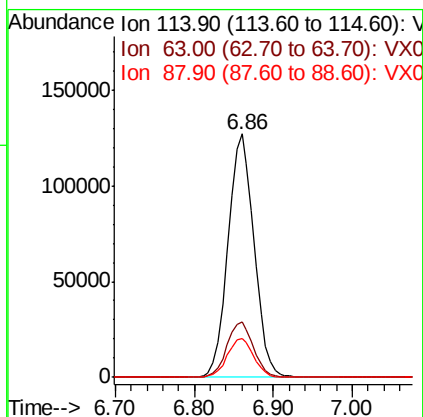
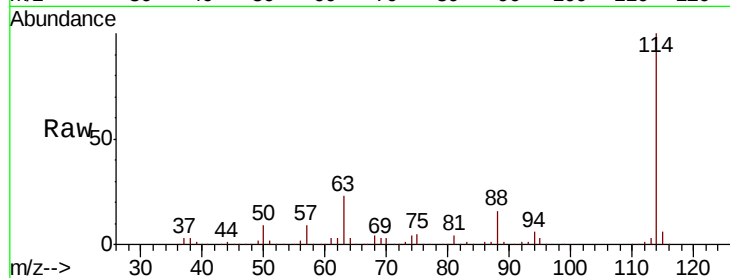




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX009508.D  
 Acq: 11 May 2019 01:54

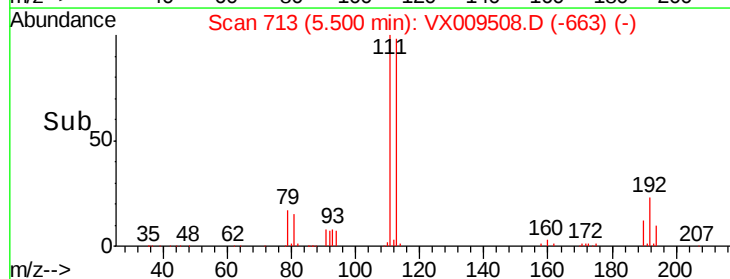
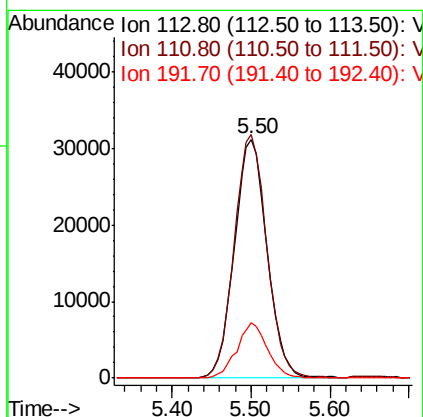
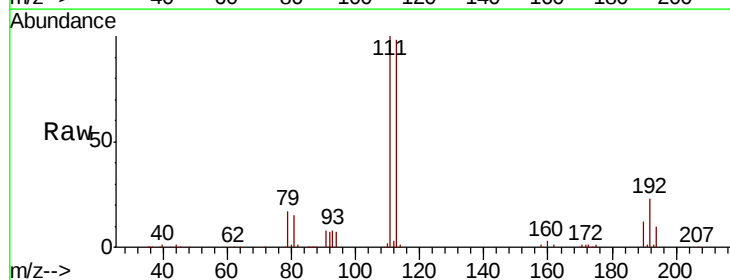
Instrument :  
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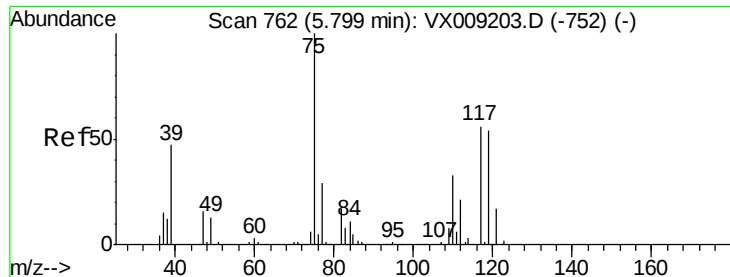
Tot Ion:114 Resp: 292321  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 45.6  
 88 16.2 0.0 33.2



#35  
 Dibromofluoromethane  
 Concen: 48.882 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009508.D  
 Acq: 11 May 2019 01:54

Tgt Ion:113 Resp: 89828  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 82.8 124.2  
 192 21.7 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.200 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

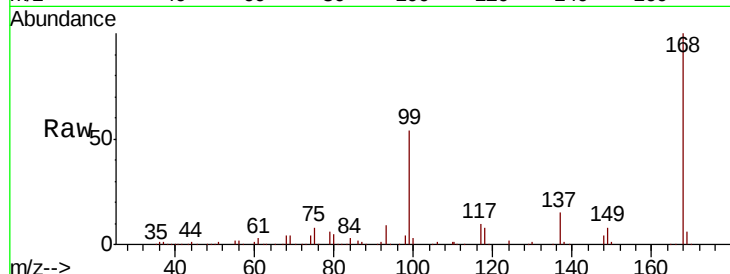
Tot Ion: 75 Resp: 14126

Ion Ratio Lower Upper

75 100

110 9.7 16.9 50.6#

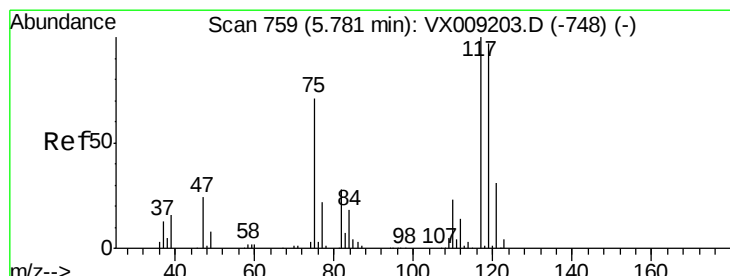
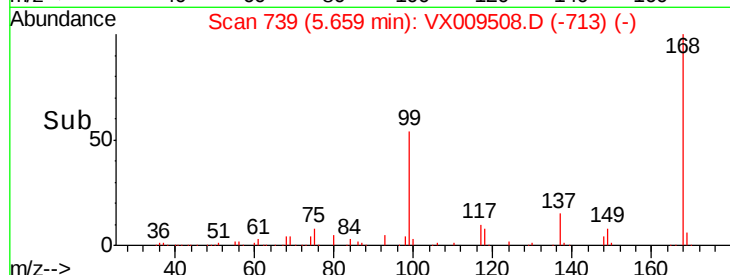
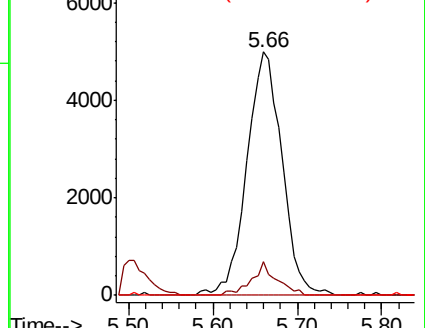
77 0.0 24.8 37.2#



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: 6.836 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

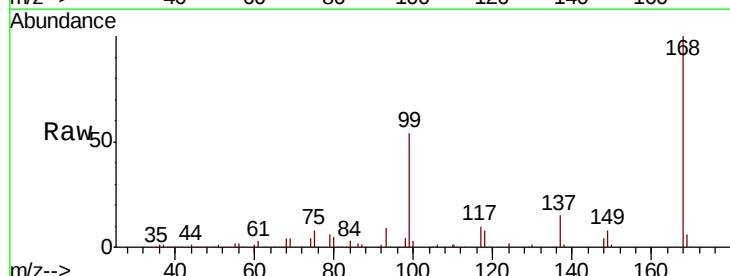
Tgt Ion: 117 Resp: 16872

Ion Ratio Lower Upper

117 100

119 4.1 77.5 116.3#

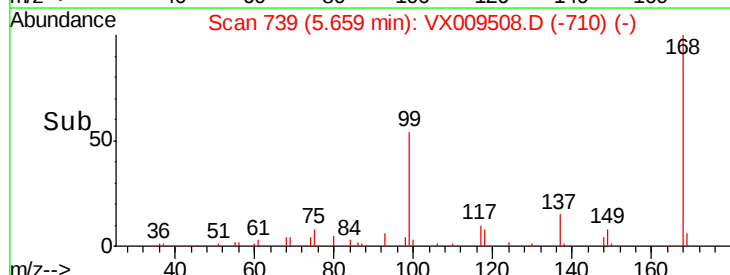
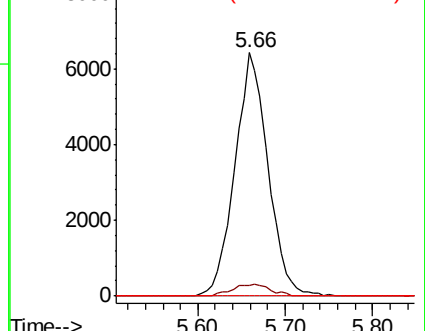
121 0.0 24.7 37.1#

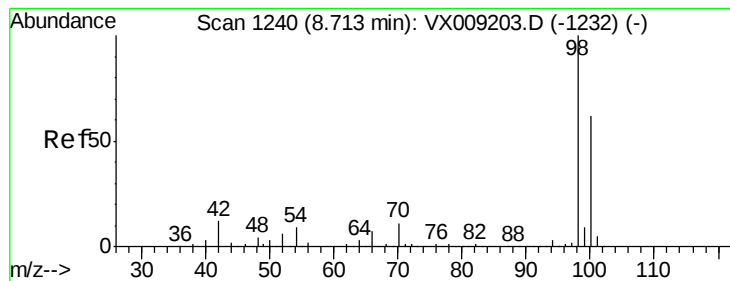


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.078 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

Instrument :

MSVOA\_X

ClientSampleId :

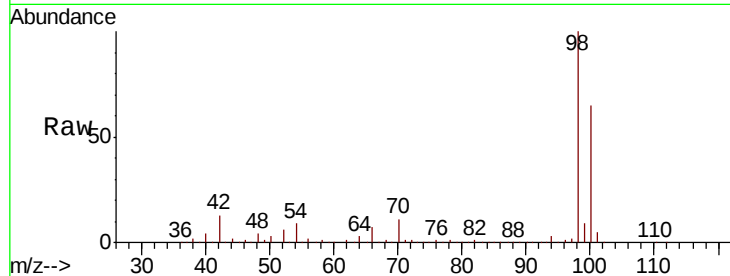
STORAGE-BLANK-WATER-REF-5

Tot Ion: 98 Resp: 364114

Ion Ratio Lower Upper

98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

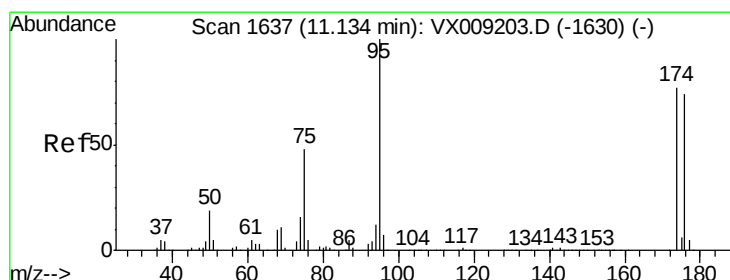
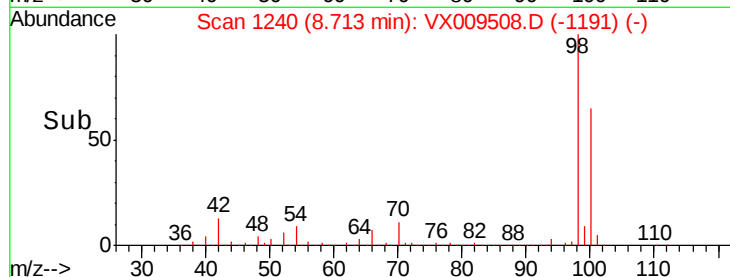
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 44.858 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

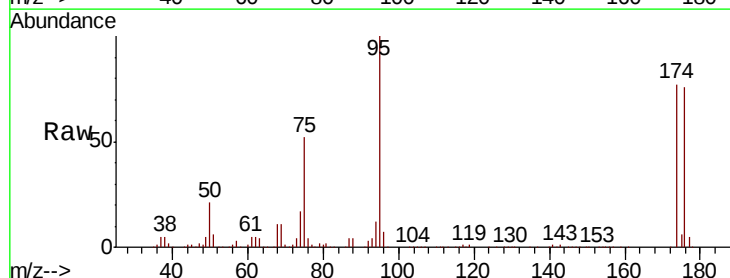
Tgt Ion: 95 Resp: 120929

Ion Ratio Lower Upper

95 100

174 82.0 0.0 161.6

176 80.4 0.0 159.2



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

120000

100000

80000

60000

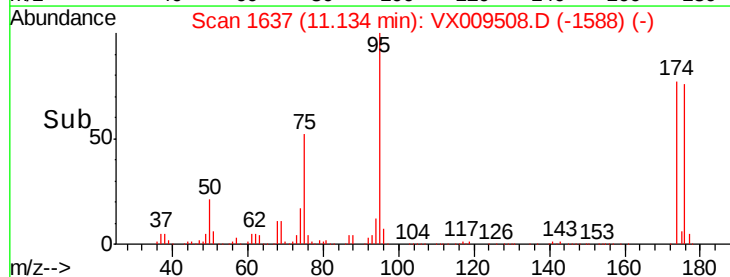
40000

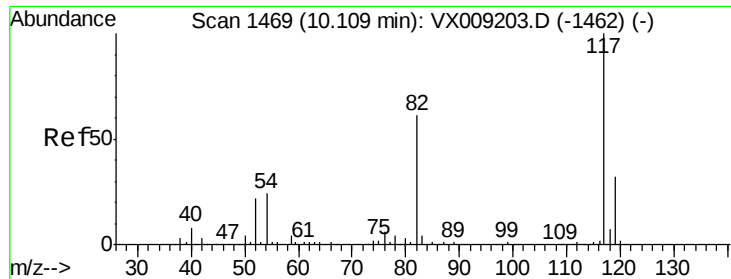
20000

0

11.10 11.13 11.16 11.19 11.22

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

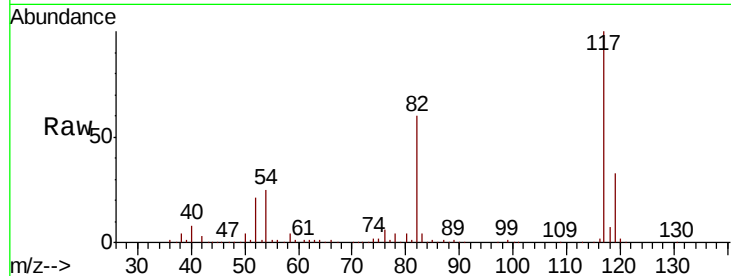
Tot Ion:117 Resp: 255480

Ion Ratio Lower Upper

117 100

82 60.2 48.8 73.2

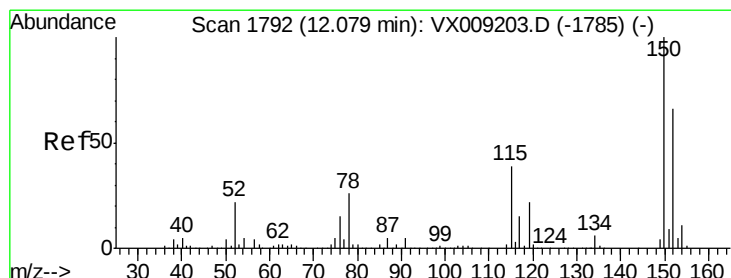
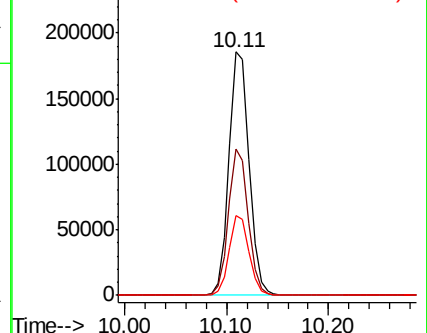
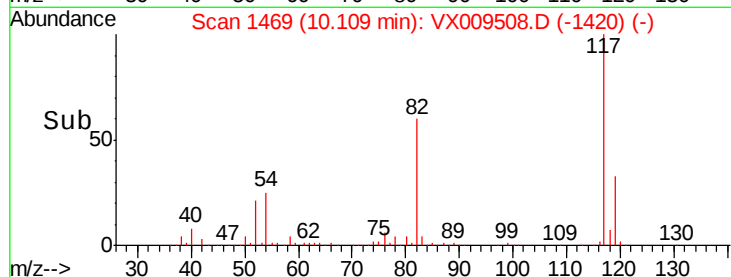
119 32.6 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

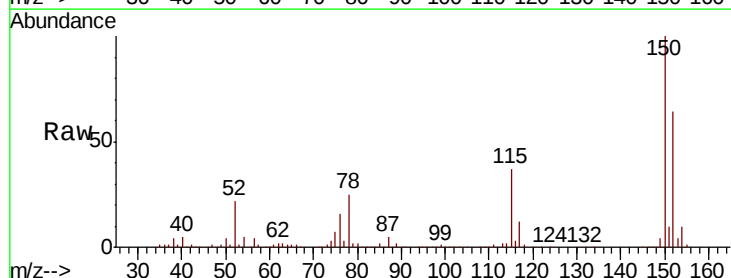
Tgt Ion:152 Resp: 109796

Ion Ratio Lower Upper

152 100

115 58.3 41.2 123.6

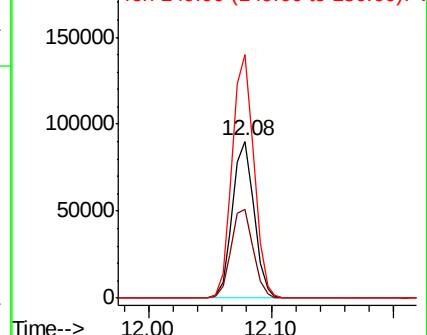
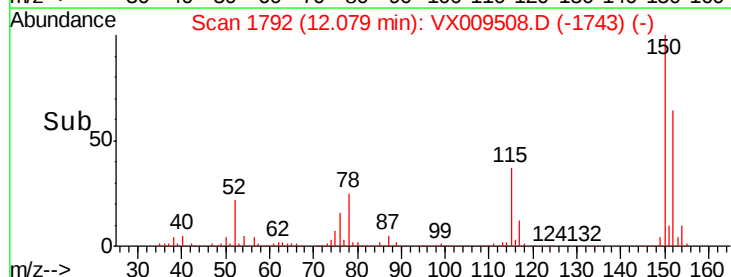
150 156.6 0.0 346.4

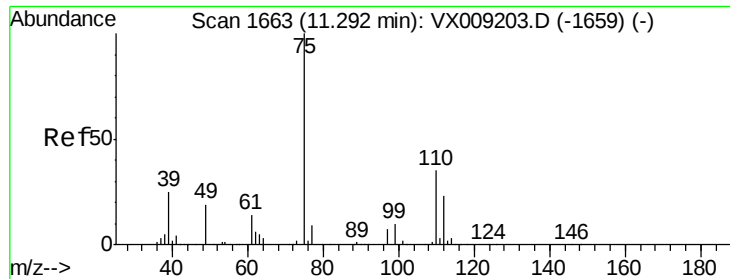


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.428 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

Instrument :

MSVOA\_X

ClientSampleId :

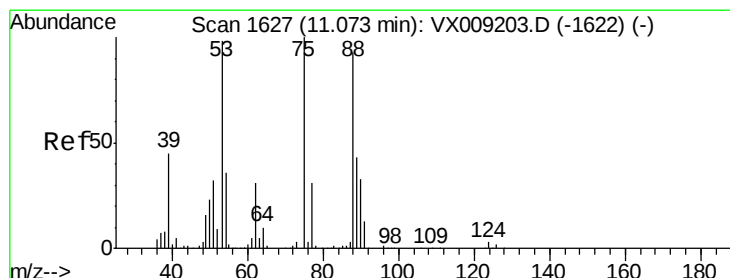
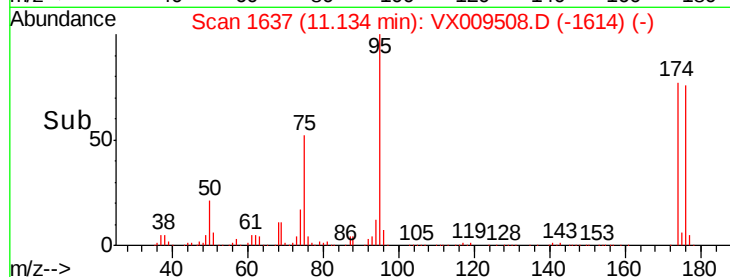
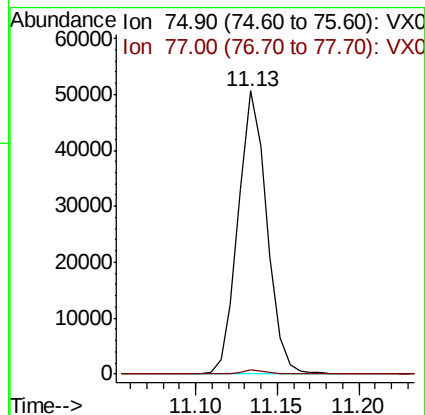
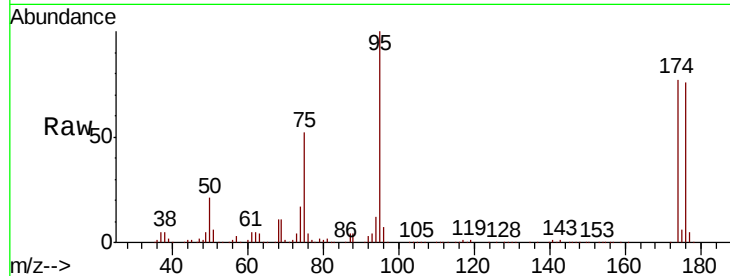
STORAGE-BLANK-WATER-REF-5

Tot Ion: 75 Resp: 62215

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.502 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009508.D

Acq: 11 May 2019 01:54

Tgt Ion: 75 Resp: 62215

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.1 34.7 52.1#

