

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX040419\  
 Data File : VX008636.D  
 Acq On : 04 Apr 2019 15:20  
 Operator : JC/SP  
 Sample : K2263-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-4

Quant Time: Apr 05 07:06:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 211856   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 353646   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 303303   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 122014   | 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   | 149520   | 48.39 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.78% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 108942   | 48.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.36% |          |
| 50) Toluene-d8              | 8.71  | 98   | 444018   | 49.32 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.64% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 146392   | 45.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.70% |          |

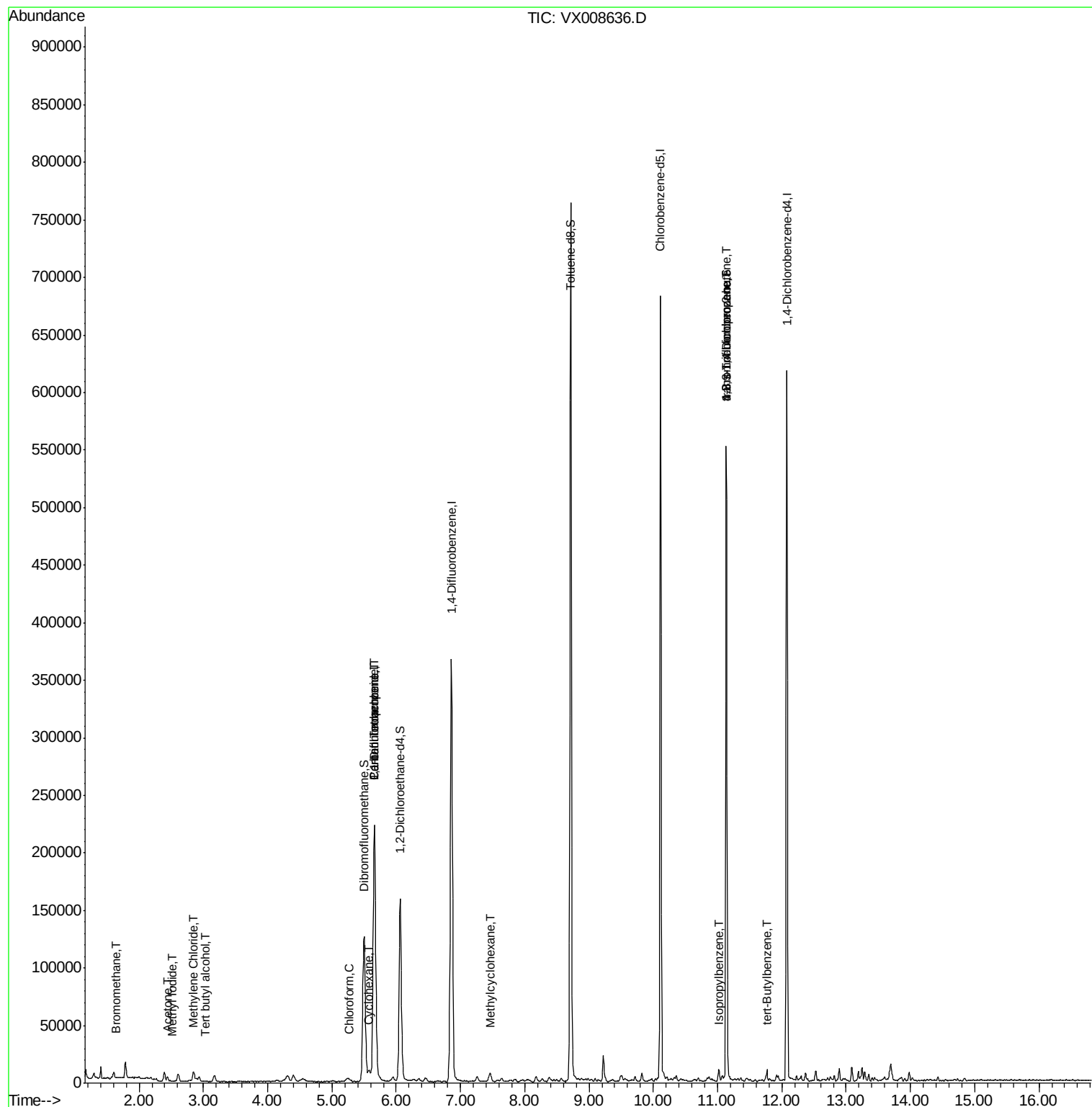
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 462      | Below Cal | #      | 40     |
| 5) Bromomethane                | 1.65  | 94   | 346      | 2.090     | ug/l # | 59     |
| 6) Chloroethane                | 1.72  | 64   | 1812     | Below Cal | #      | 43     |
| 10) Methyl Iodide              | 2.51  | 142  | 253      | 4.112     | ug/l # | 79     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 694      | 0.959     | ug/l # | 72     |
| 16) Acetone                    | 2.44  | 43   | 4159     | 2.337     | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.57  | 76   | 847      | Below Cal | #      | 70     |
| 20) Methylene Chloride         | 2.85  | 84   | 796      | 0.267     | ug/l # | 77     |
| 28) Bromochloromethane         | 5.01  | 49   | 112      | Below Cal | #      | 22     |
| 30) Chloroform                 | 5.27  | 83   | 1187     | 0.248     | ug/l # | 34     |
| 31) Cyclohexane                | 5.57  | 56   | 6453     | 1.209     | ug/l   | 90     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 17824    | 4.611     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20338    | 6.357     | ug/l # | 17     |
| 39) Methylcyclohexane          | 7.46  | 83   | 3072     | 0.643     | ug/l   | 86     |
| 73) Isopropylbenzene           | 11.02 | 105  | 3723     | 0.368     | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 74766    | 22.306    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 74766    | 61.487    | ug/l # | 9      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 3017     | 0.369     | ug/l   | 82     |

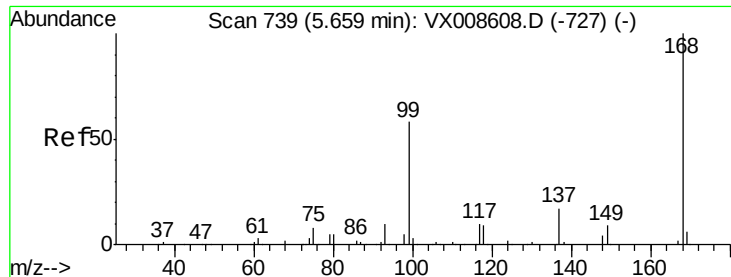
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX040419\  
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Sample : K2263-02  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-4

Quant Time: Apr 05 07:06:09 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 04 04:47:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

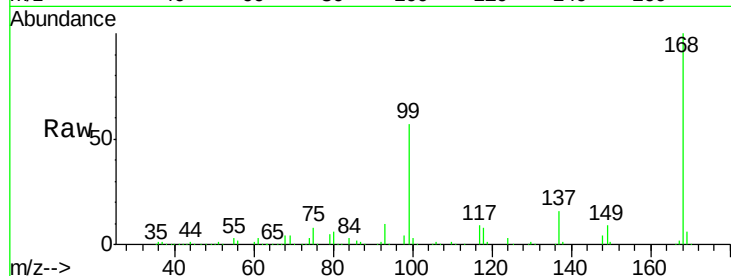
MW-4

Tgt Ion:168 Resp: 211856

Ion Ratio Lower Upper

168 100

99 57.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

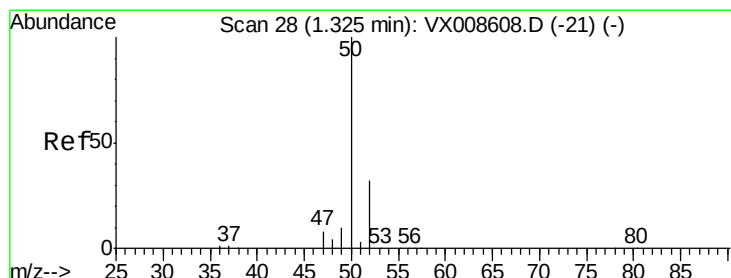
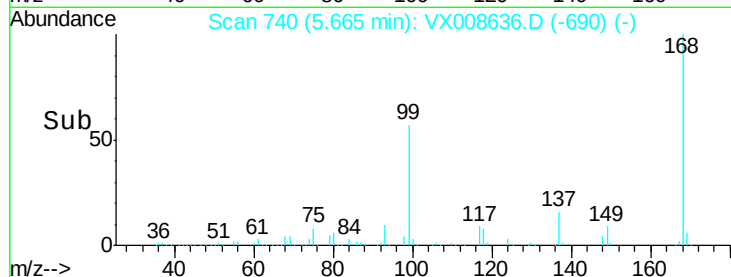
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008636.D

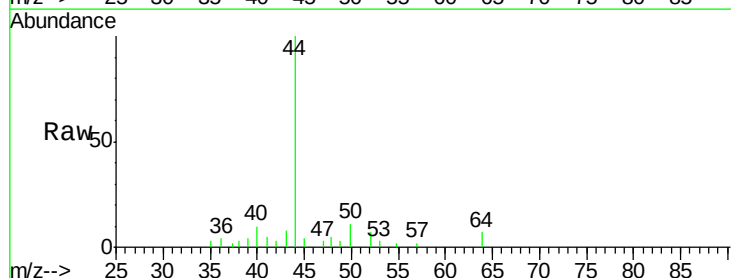
Acq: 04 Apr 2019 15:20

Tgt Ion: 50 Resp: 462

Ion Ratio Lower Upper

50 100

52 66.1 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

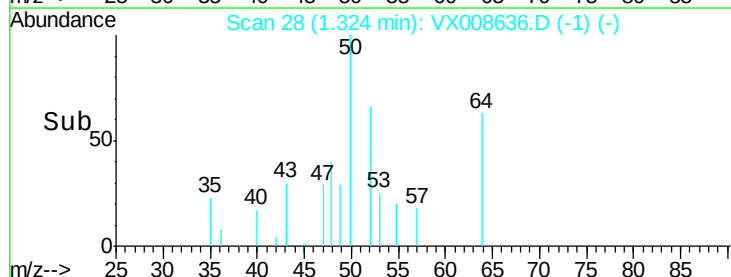
300

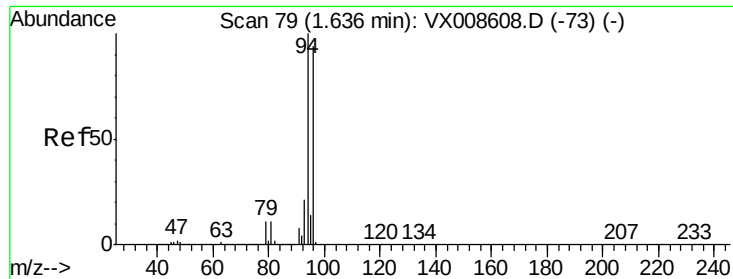
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.090 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

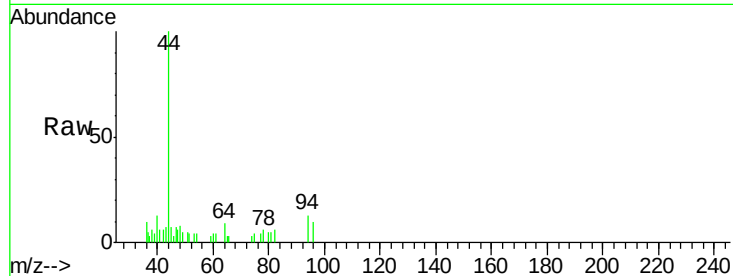
MW-4

Tgt Ion: 94 Resp: 346

Ion Ratio Lower Upper

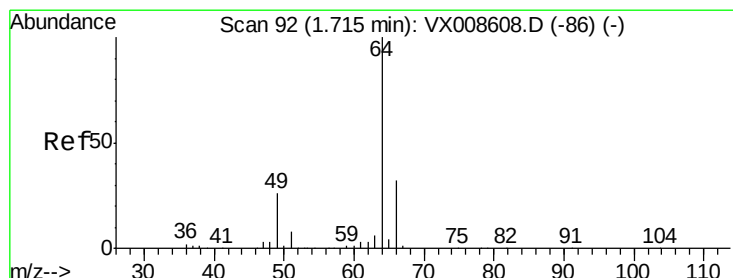
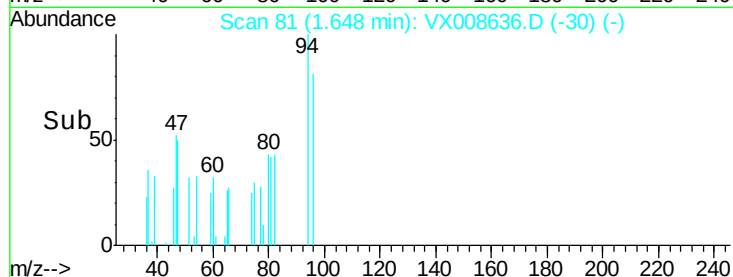
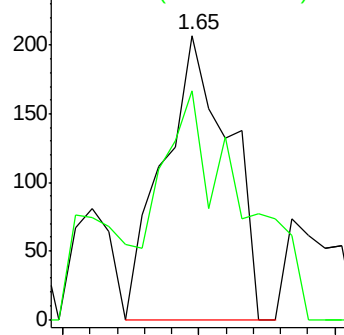
94 100

96 54.1 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008636.D

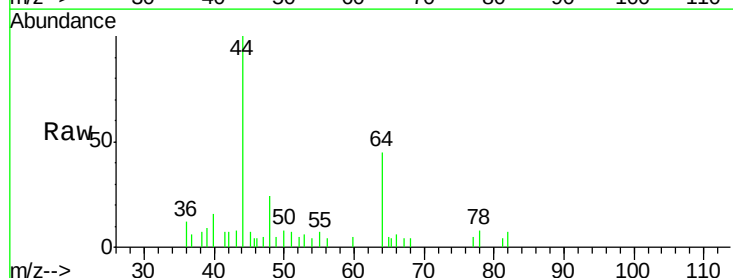
Acq: 04 Apr 2019 15:20

Tgt Ion: 64 Resp: 1812

Ion Ratio Lower Upper

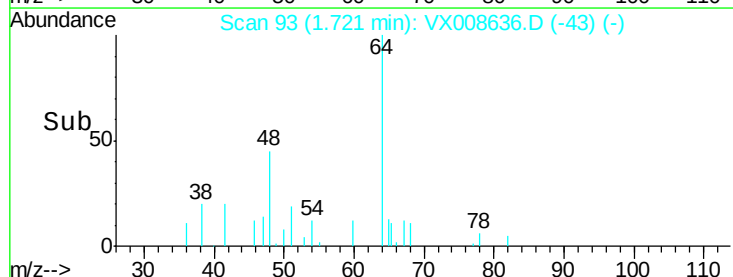
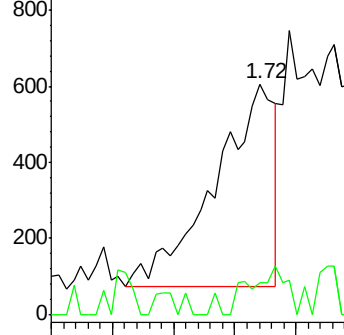
64 100

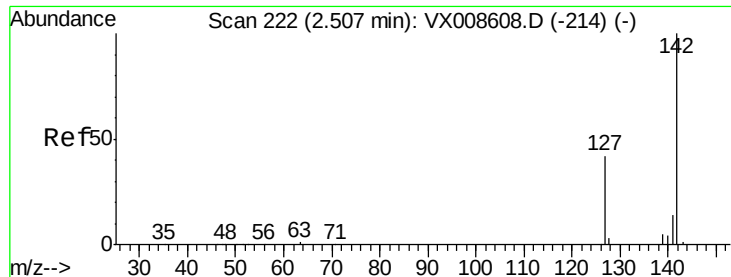
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

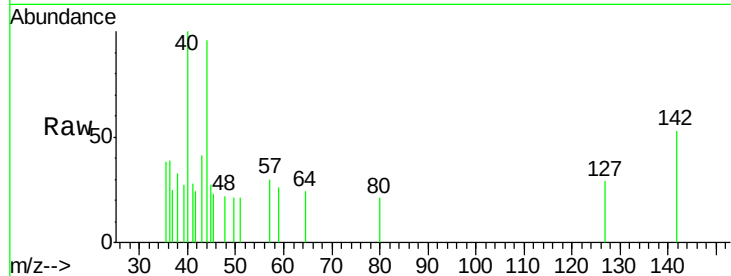




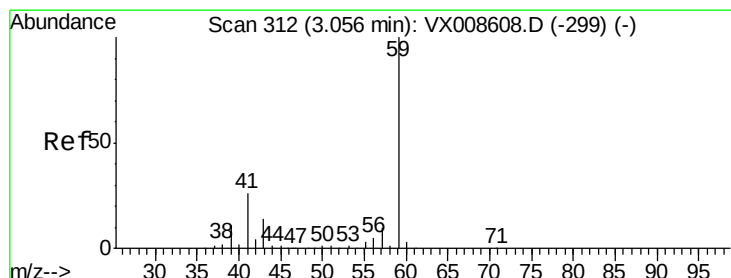
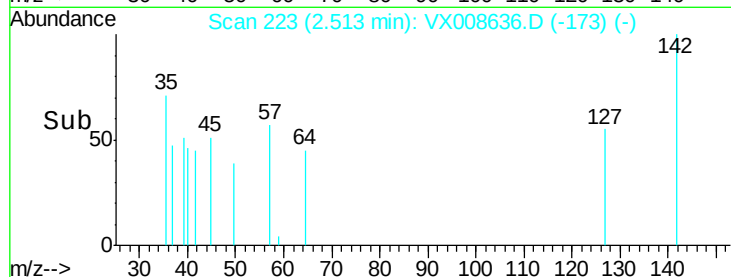
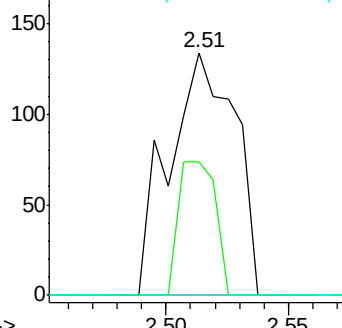
#10  
Methyl Iodide  
Concen: 4.112 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

Tgt Ion: 142 Resp: 253  
Ion Ratio Lower Upper  
142 100  
127 30.8 33.0 49.6#  
141 0.0 11.4 17.2#

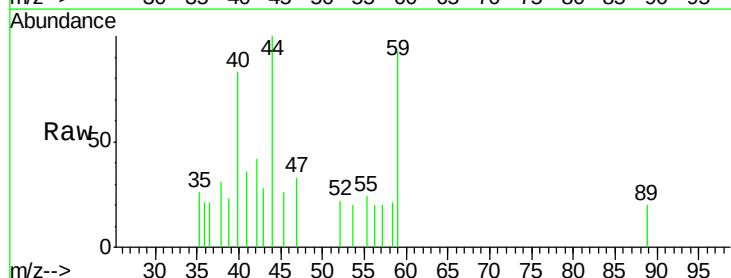


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

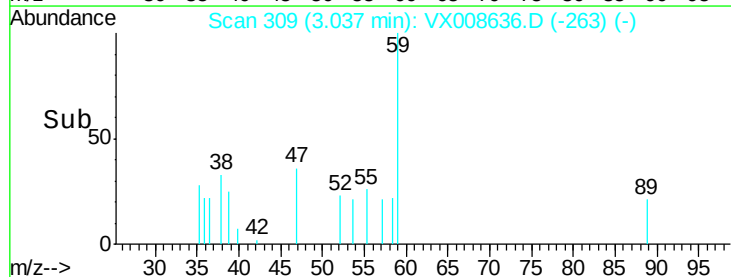
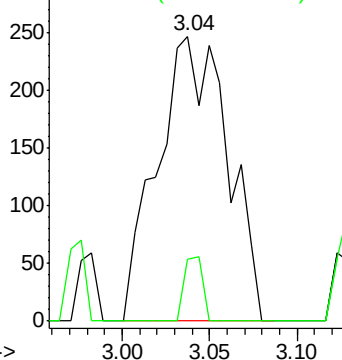


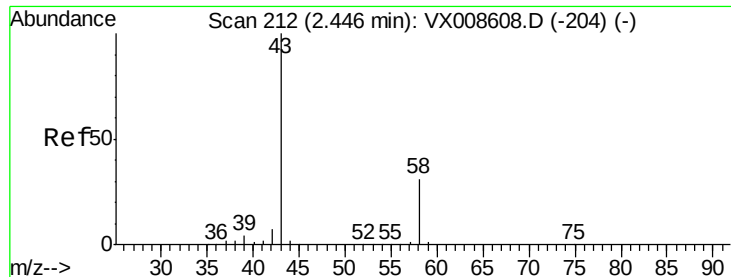
#11  
Tert butyl alcohol  
Concen: 0.959 ug/l  
RT: 3.04 min Scan# 309  
Delta R.T. -0.02 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

Tgt Ion: 59 Resp: 694  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



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





#16

Acetone

Concen: 2.337 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

Instrument :

MSVOA\_X

ClientSampled :

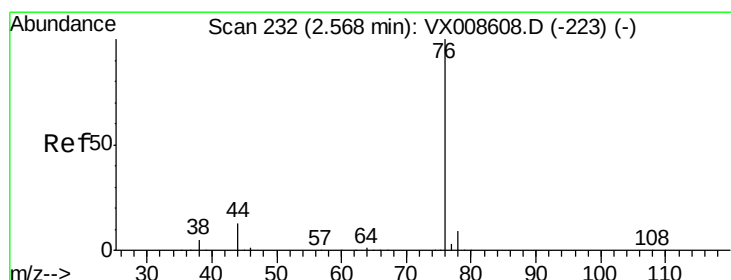
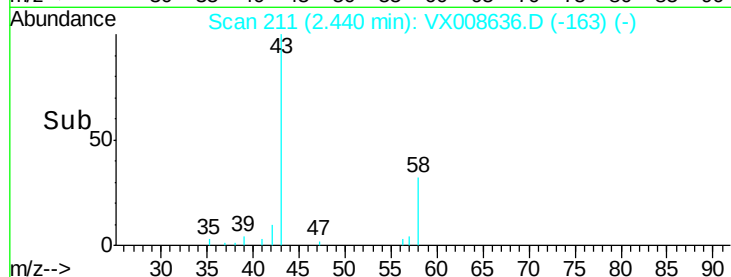
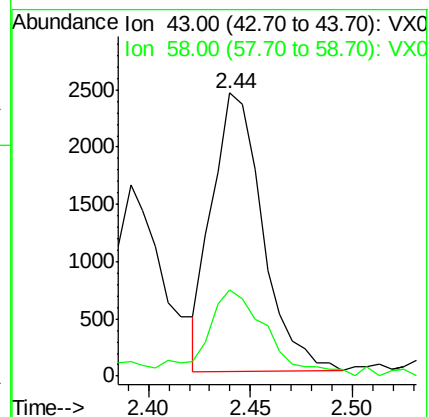
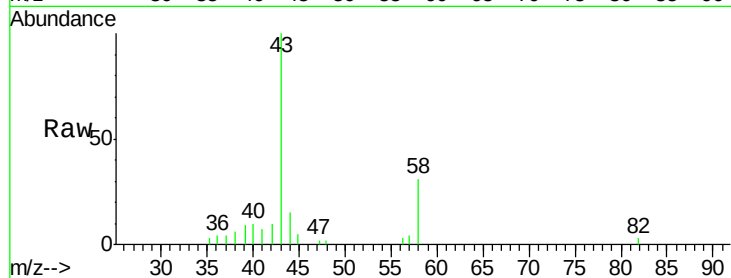
MW-4

Tgt Ion: 43 Resp: 4159

Ion Ratio Lower Upper

43 100

58 28.7 24.8 37.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008636.D

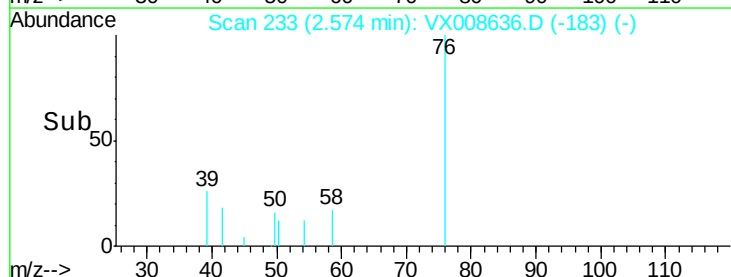
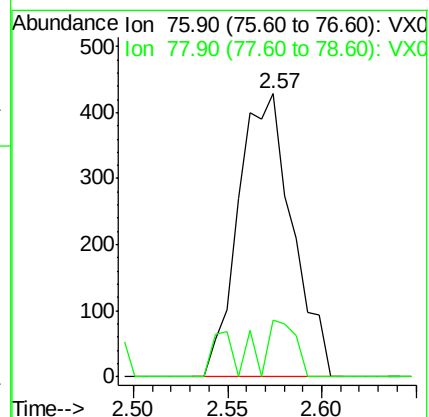
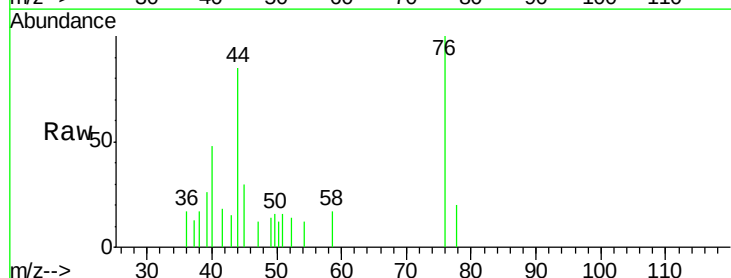
Acq: 04 Apr 2019 15:20

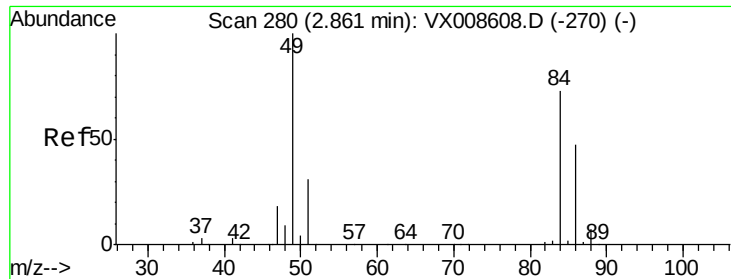
Tgt Ion: 76 Resp: 847

Ion Ratio Lower Upper

76 100

78 19.9 7.1 10.7#

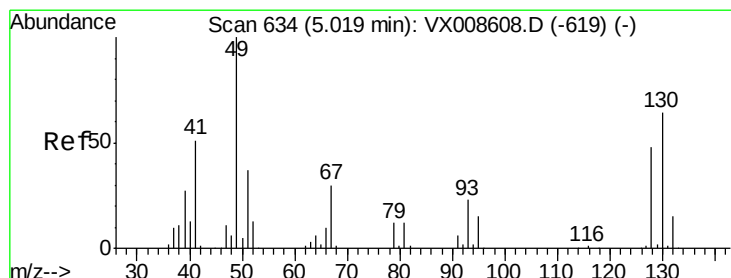
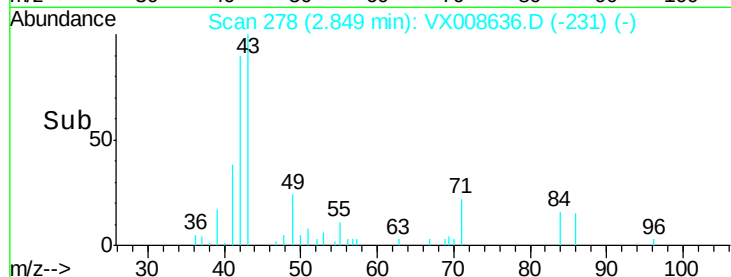
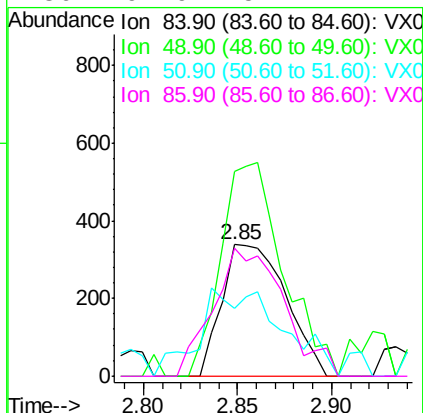
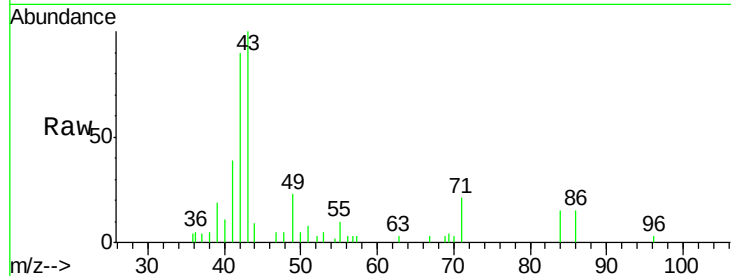




#20  
Methylene Chloride  
Concen: 0.267 ug/l  
RT: 2.85 min Scan# 278  
Delta R.T. -0.01 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

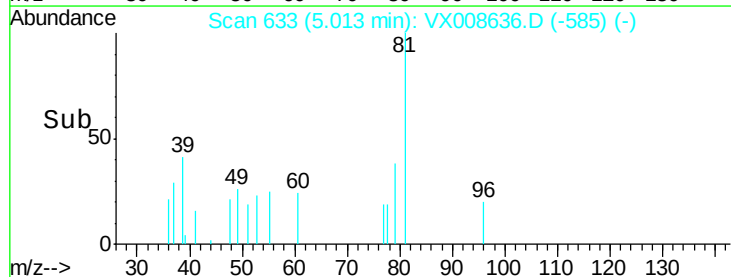
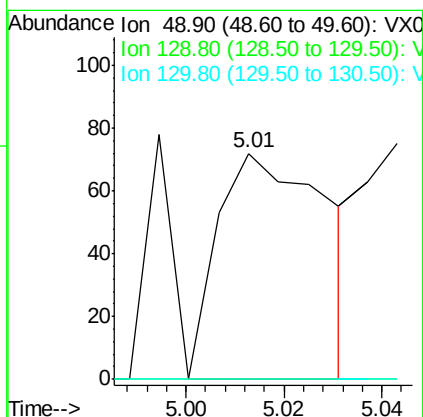
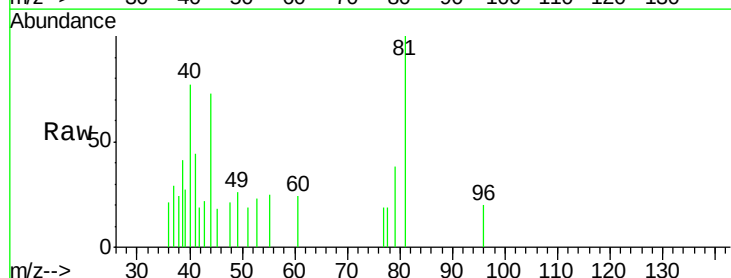
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

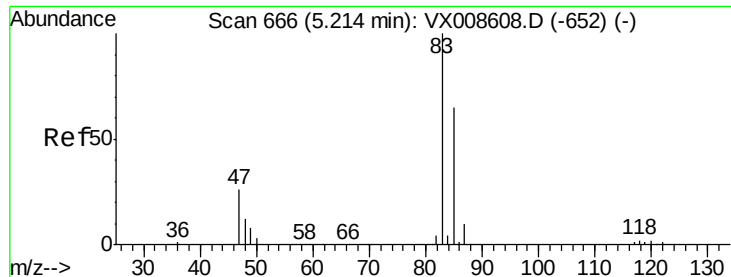
Tgt Ion: 84 Resp: 796  
Ion Ratio Lower Upper  
84 100  
49 155.9 109.7 164.5  
51 51.5 33.6 50.4#  
86 97.9 51.4 77.2#



#28  
Bromochloromethane  
Concen: Below Cal  
RT: 5.01 min Scan# 633  
Delta R.T. -0.01 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

Tgt Ion: 49 Resp: 112  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 49.3 73.9#

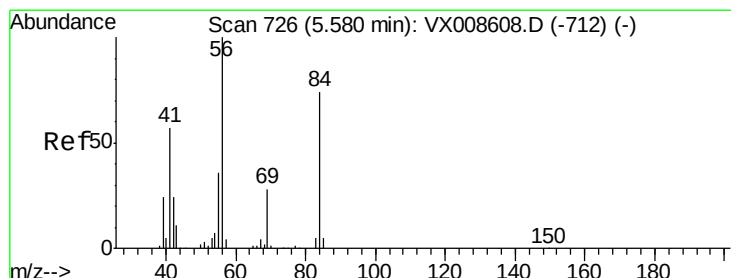
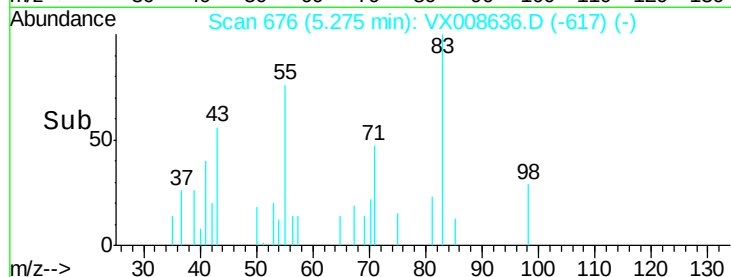
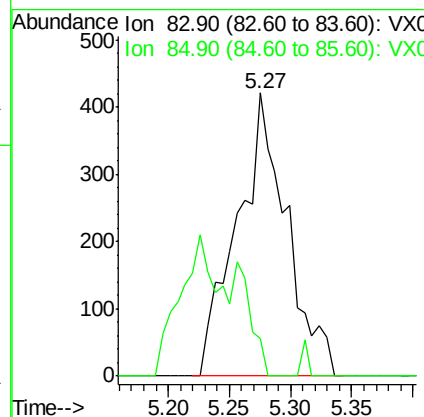
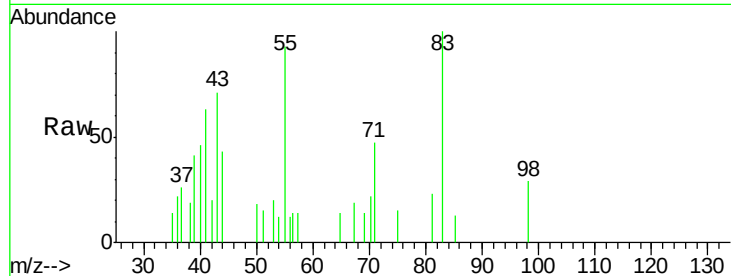




#30  
Chloroform  
Concen: 0.248 ug/l  
RT: 5.27 min Scan# 676  
Delta R.T. 0.06 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

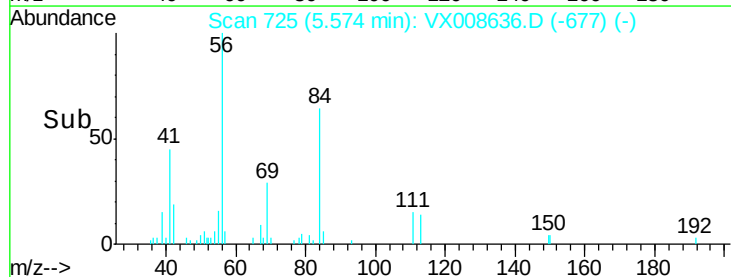
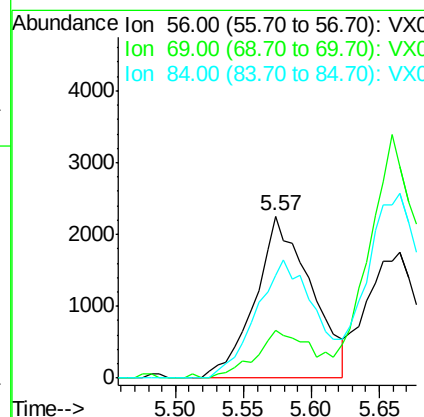
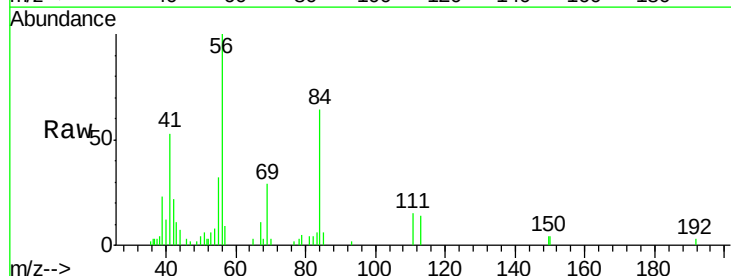
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

Tgt Ion: 83 Resp: 1187  
Ion Ratio Lower Upper  
83 100  
85 13.1 52.1 78.1#

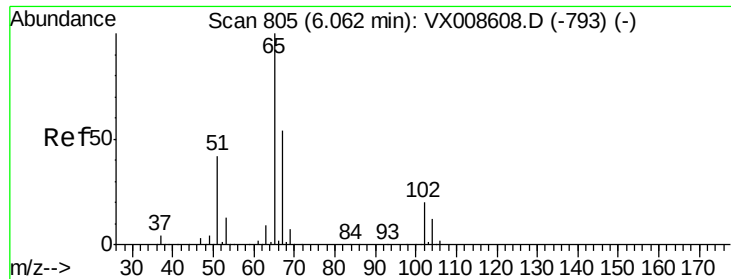


#31  
Cyclohexane  
Concen: 1.209 ug/l  
RT: 5.57 min Scan# 725  
Delta R.T. -0.01 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

Tgt Ion: 56 Resp: 6453  
Ion Ratio Lower Upper  
56 100  
69 26.5 22.6 33.8  
84 63.8 59.3 88.9



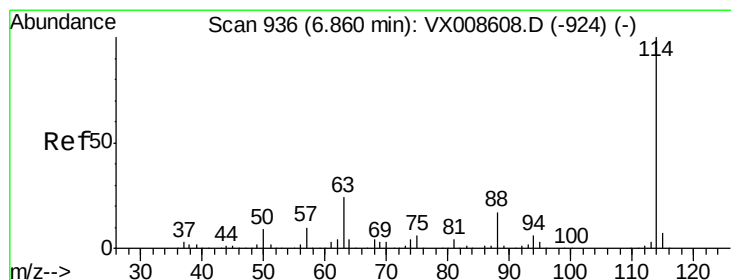
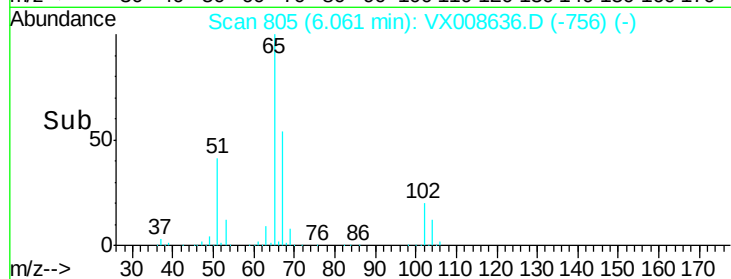
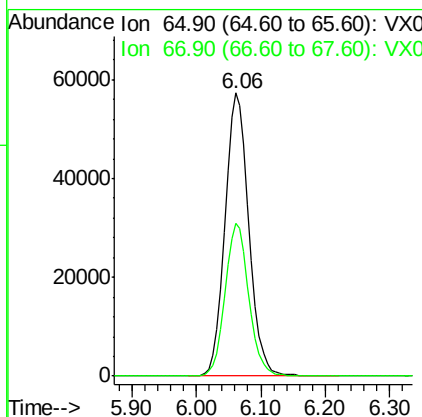
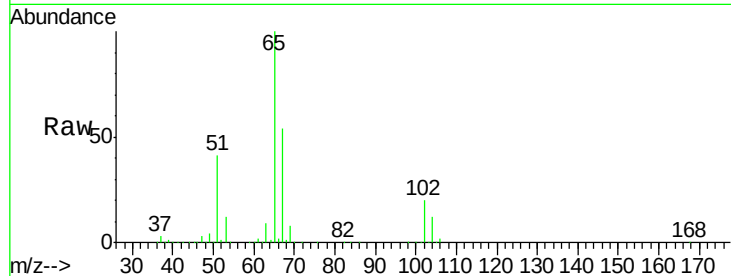




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.388 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: VX008636.D  
 Acq: 04 Apr 2019 15:20

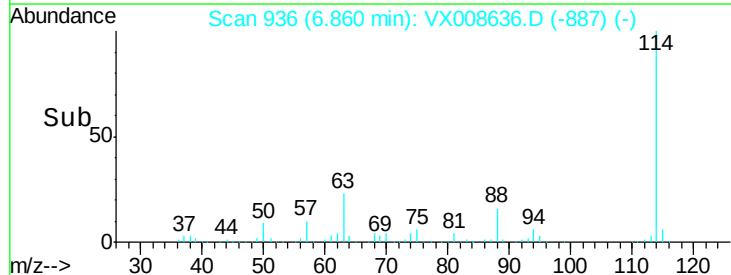
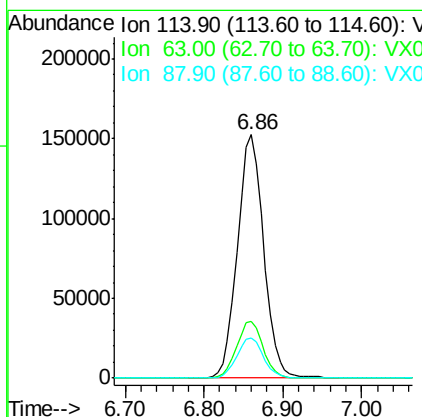
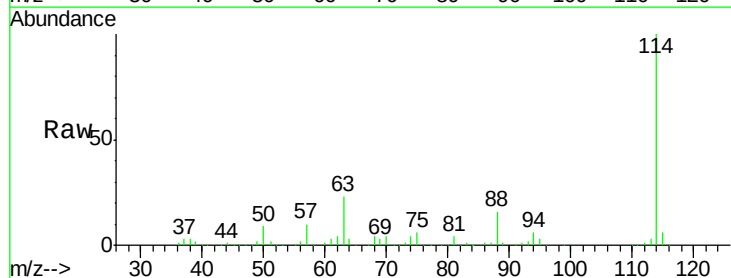
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-4

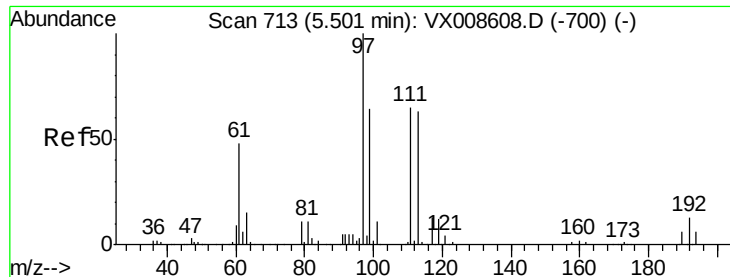
Tgt Ion: 65 Resp: 149520  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX008636.D  
 Acq: 04 Apr 2019 15:20

Tgt Ion: 114 Resp: 353646  
 Ion Ratio Lower Upper  
 114 100  
 63 23.5 0.0 47.2  
 88 16.3 0.0 34.0





#35

Dibromofluoromethane

Concen: 48.181 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

Instrument :

MSVOA\_X

ClientSampled :

MW-4

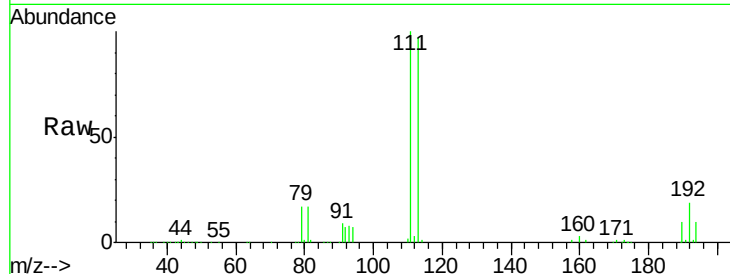
Tgt Ion:113 Resp: 108942

Ion Ratio Lower Upper

113 100

111 103.1 83.4 125.2

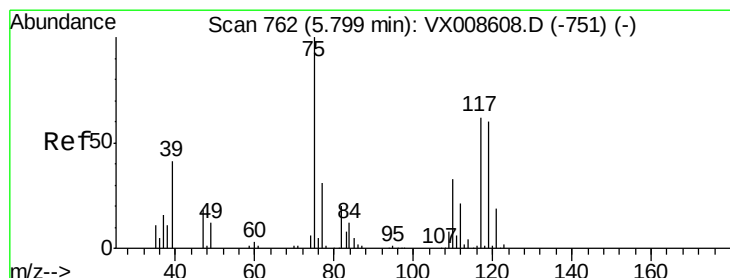
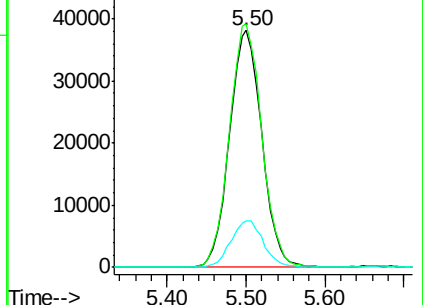
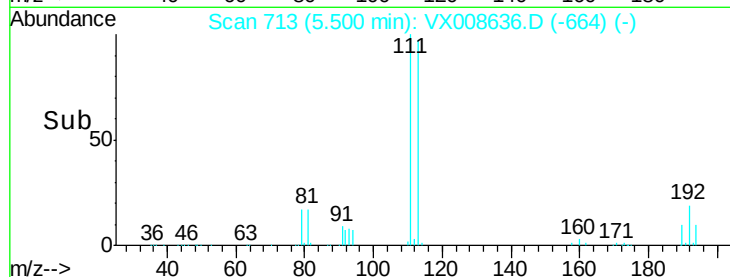
192 19.9 16.1 24.1



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: 4.611 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

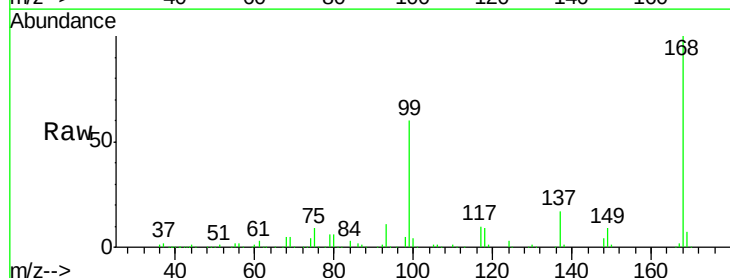
Tgt Ion: 75 Resp: 17824

Ion Ratio Lower Upper

75 100

110 8.6 16.4 49.2#

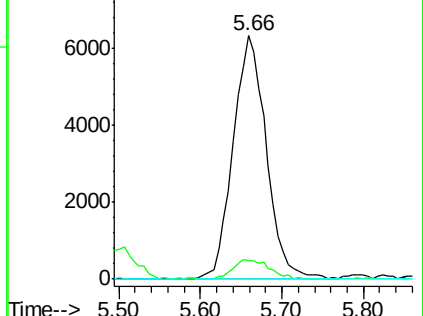
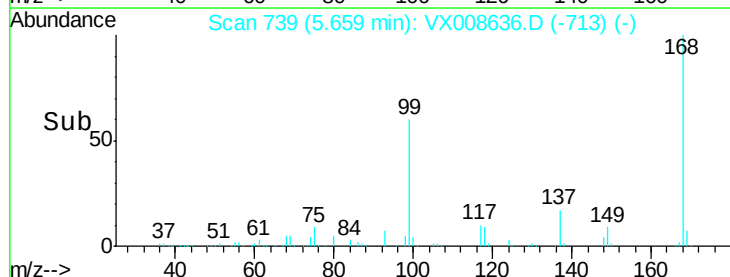
77 0.0 24.7 37.1#

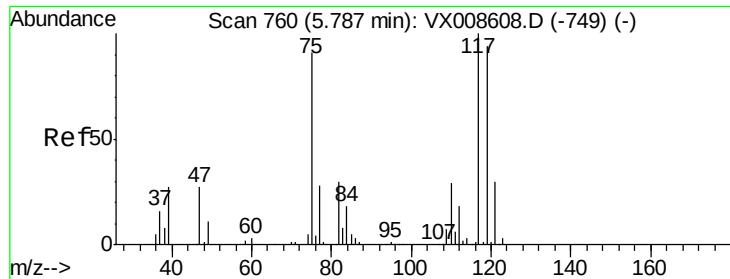


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.357 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

MW-4

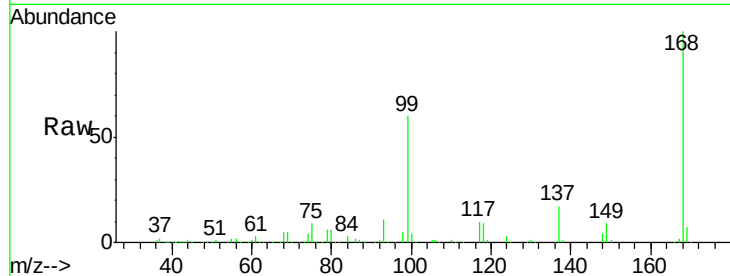
Tgt Ion:117 Resp: 20338

Ion Ratio Lower Upper

117 100

119 5.4 75.0 112.6#

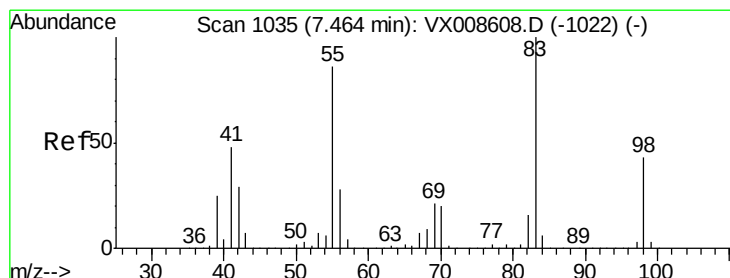
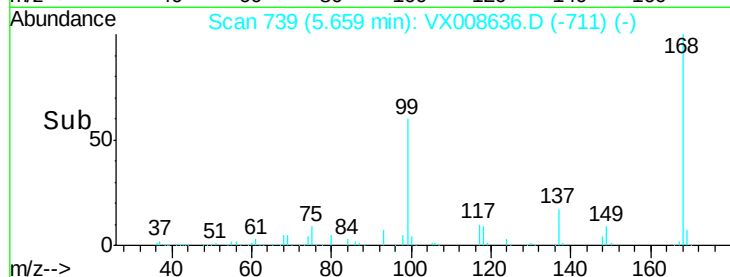
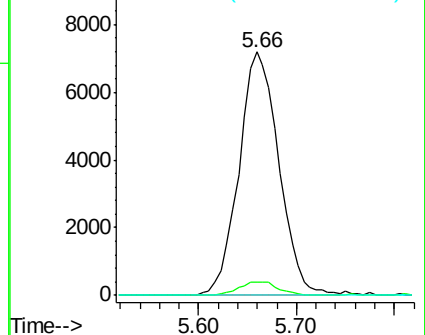
121 0.0 24.3 36.5#



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



#39

Methylcyclohexane

Concen: 0.643 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

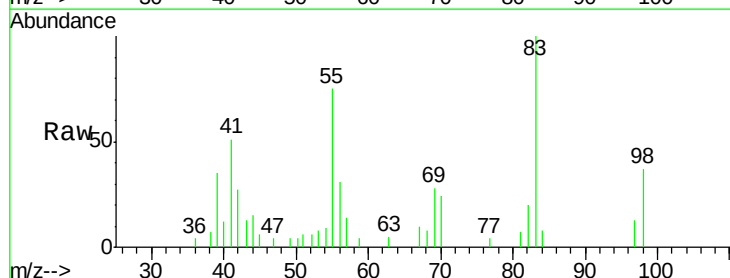
Tgt Ion: 83 Resp: 3072

Ion Ratio Lower Upper

83 100

55 70.7 69.0 103.6

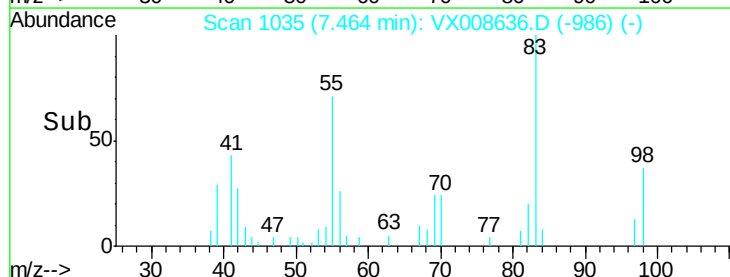
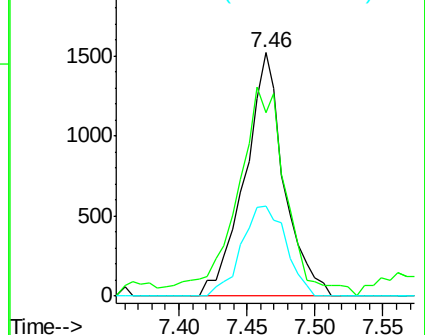
98 37.1 34.4 51.6

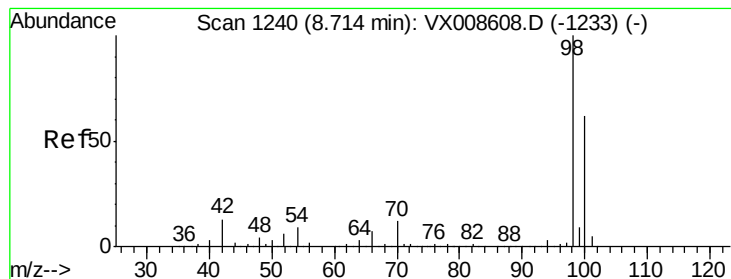


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 49.319 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

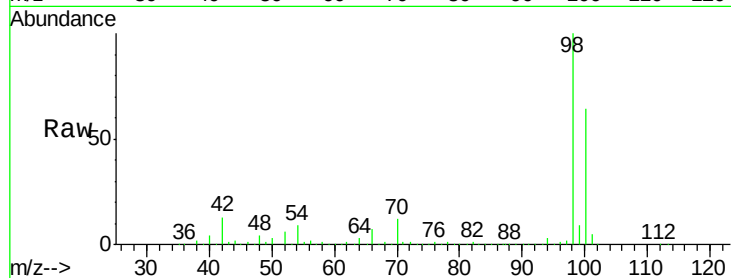
MW-4

Tgt Ion: 98 Resp: 444018

Ion Ratio Lower Upper

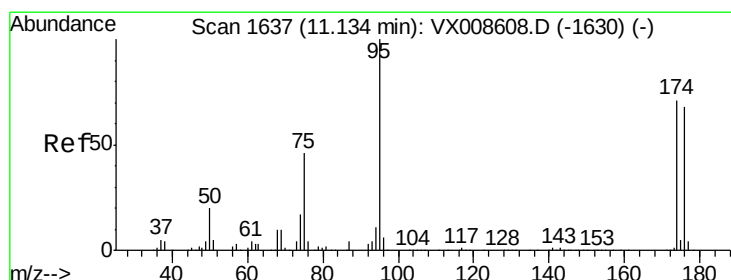
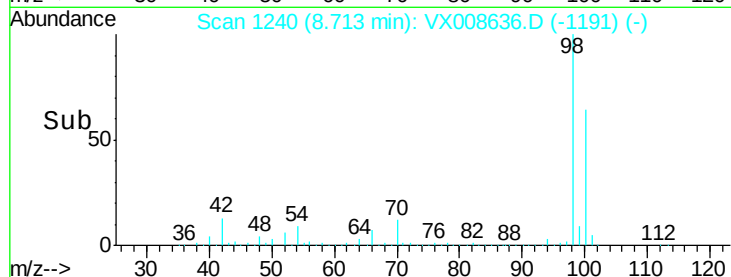
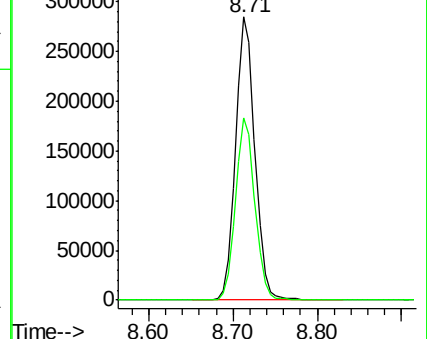
98 100

100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 45.853 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

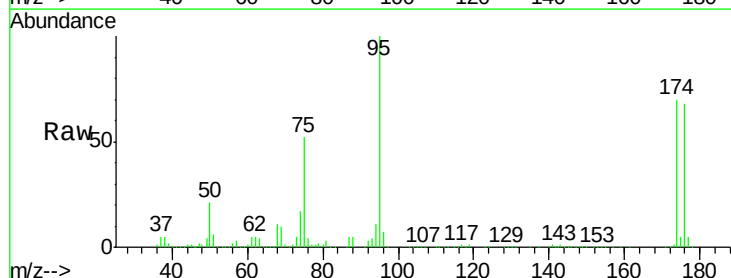
Tgt Ion: 95 Resp: 146392

Ion Ratio Lower Upper

95 100

174 74.5 0.0 151.8

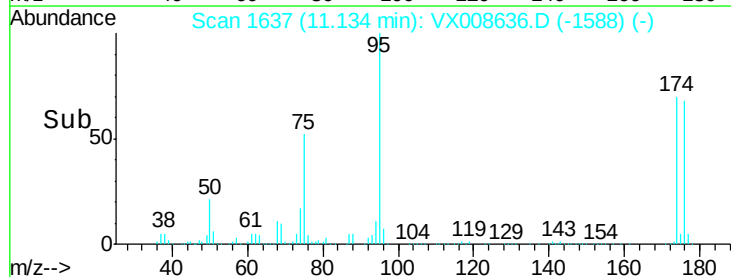
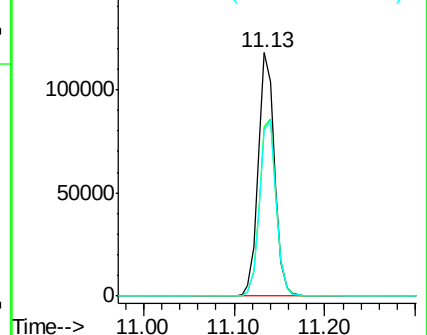
176 73.5 0.0 145.8

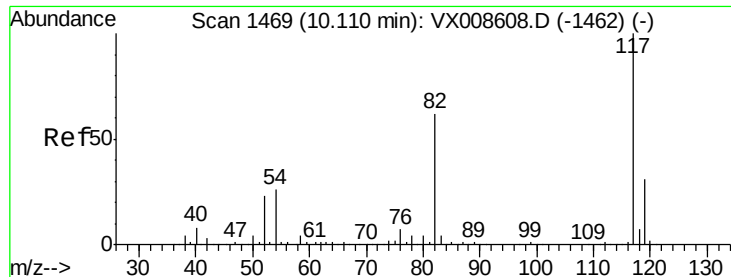


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

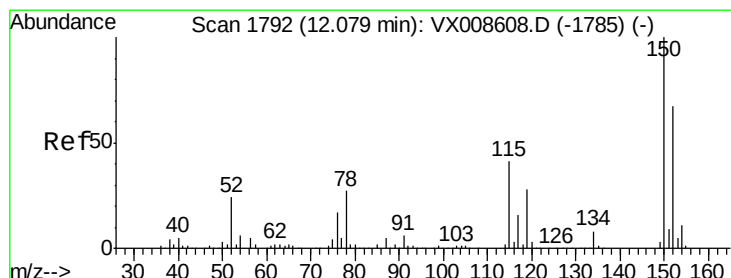
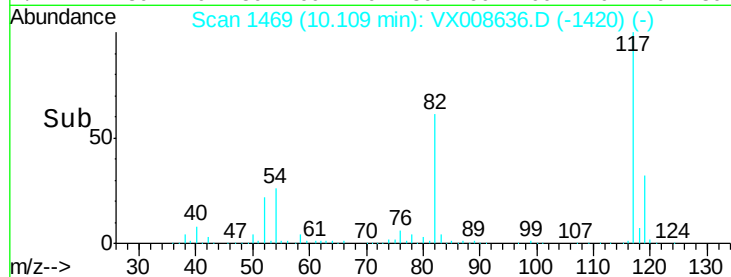
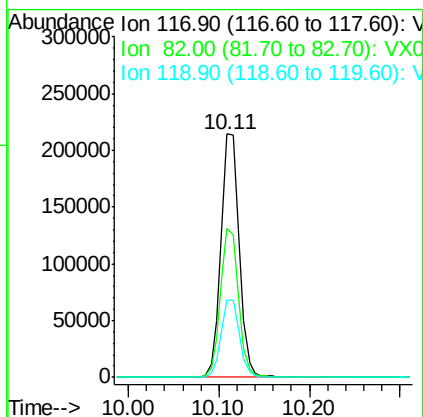
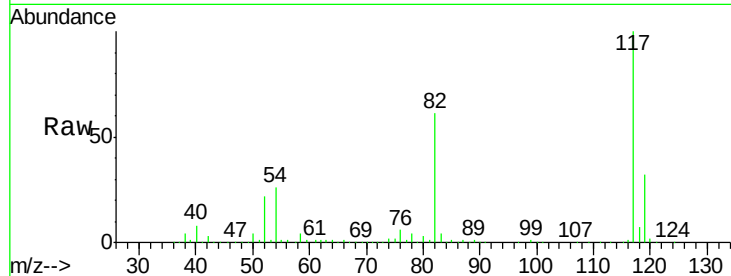




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

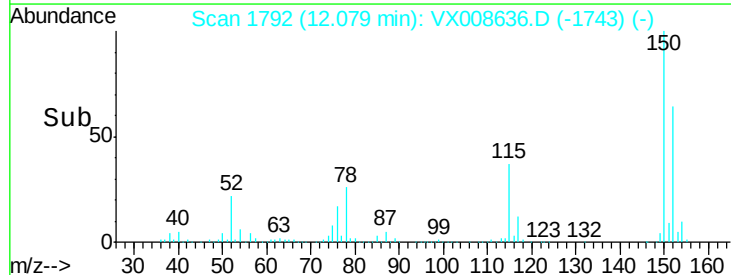
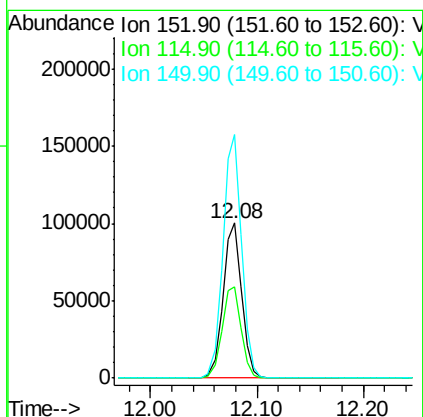
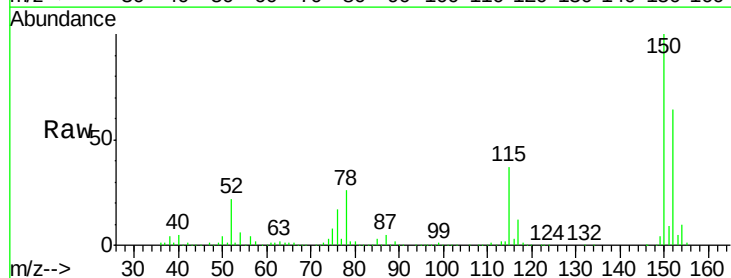
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

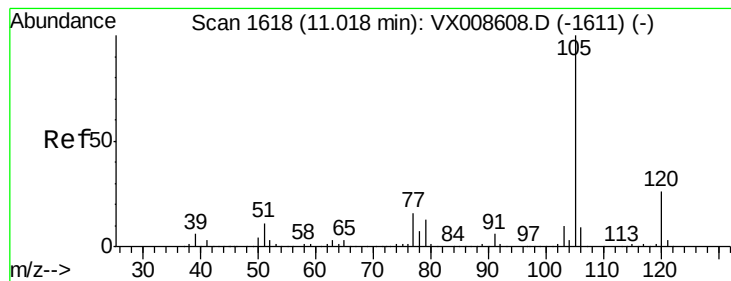
Tgt Ion:117 Resp: 303303  
Ion Ratio Lower Upper  
117 100  
82 61.3 49.6 74.4  
119 31.6 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

Tgt Ion:152 Resp: 122014  
Ion Ratio Lower Upper  
152 100  
115 60.6 43.5 130.5  
150 157.4 0.0 348.8





#73

Isopropylbenzene

Concen: 0.368 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008636.D

Acq: 04 Apr 2019 15:20

Instrument :

MSVOA\_X

ClientSampled :

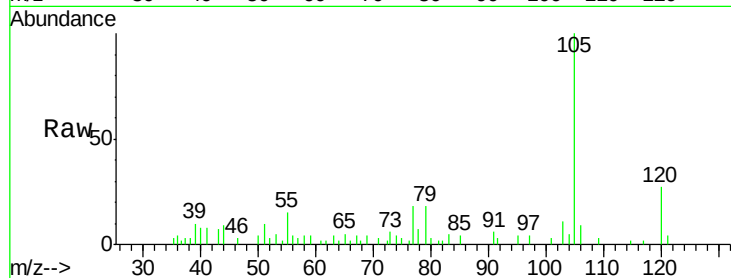
MW-4

Tgt Ion: 105 Resp: 3723

Ion Ratio Lower Upper

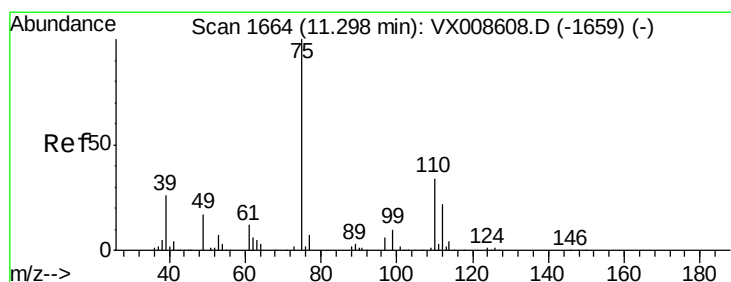
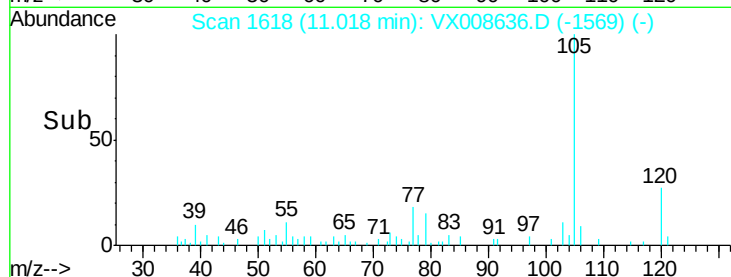
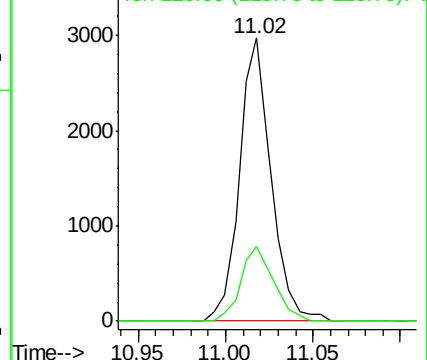
105 100

120 27.3 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 22.306 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008636.D

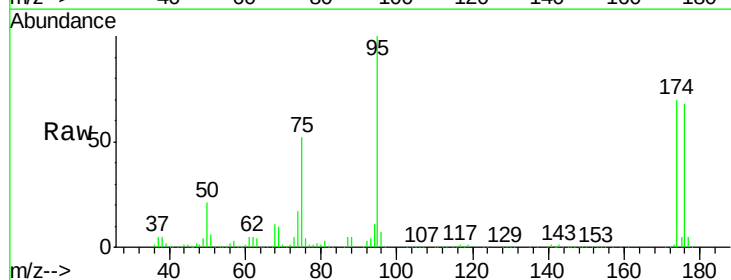
Acq: 04 Apr 2019 15:20

Tgt Ion: 75 Resp: 74766

Ion Ratio Lower Upper

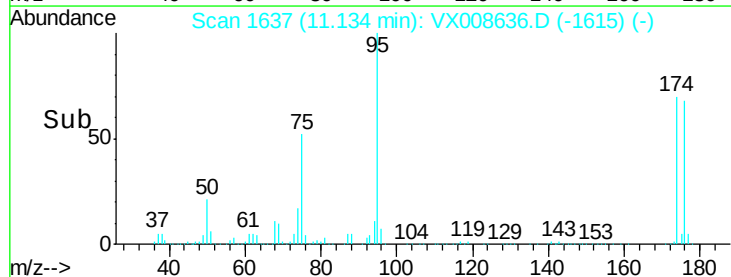
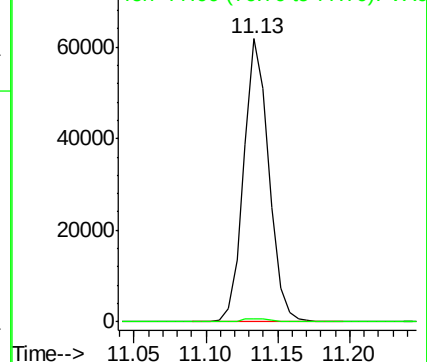
75 100

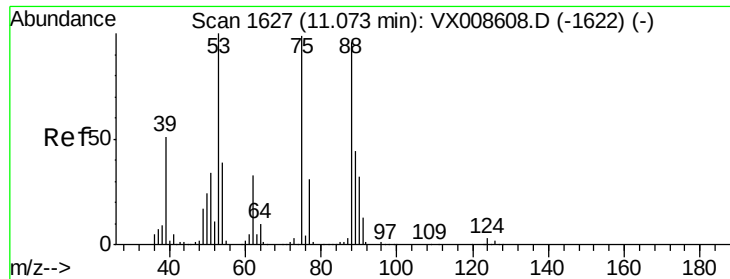
77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

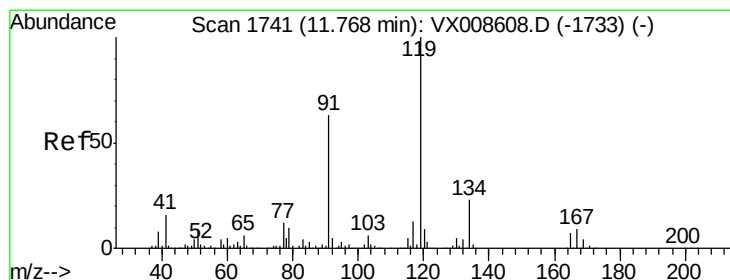
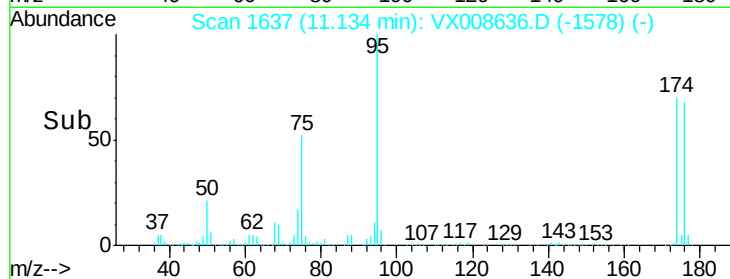
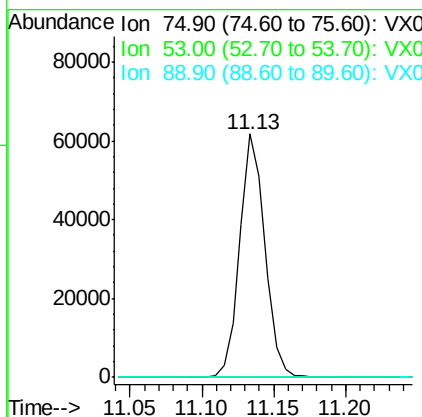
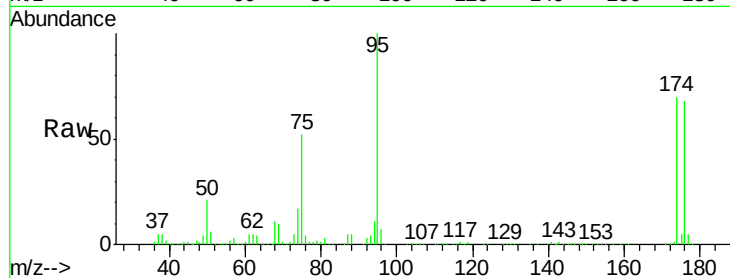




#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.487 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.06 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

Tgt Ion: 75 Resp: 74766  
Ion Ratio Lower Upper  
75 100  
53 0.2 81.3 121.9#  
89 0.0 35.6 53.4#



#83  
tert-Butylbenzene  
Concen: 0.369 ug/l  
RT: 11.77 min Scan# 1741  
Delta R.T. -0.00 min  
Lab File: VX008636.D  
Acq: 04 Apr 2019 15:20

Tgt Ion: 119 Resp: 3017  
Ion Ratio Lower Upper  
119 100  
91 76.9 30.0 90.1  
134 26.1 11.1 33.3

