

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111618\  
 Data File : VX006052.D  
 Acq On : 16 Nov 2018 16:15  
 Operator : JC/MD  
 Sample : J5965-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-4

Quant Time: Nov 17 00:44:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 147731   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 204267   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 198175   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 80318    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 80153    | 47.19 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.38% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 68377    | 49.22 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.44% |          |
| 50) Toluene-d8              | 8.71  | 98   | 216418   | 46.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.70% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 73788    | 44.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.86% |          |

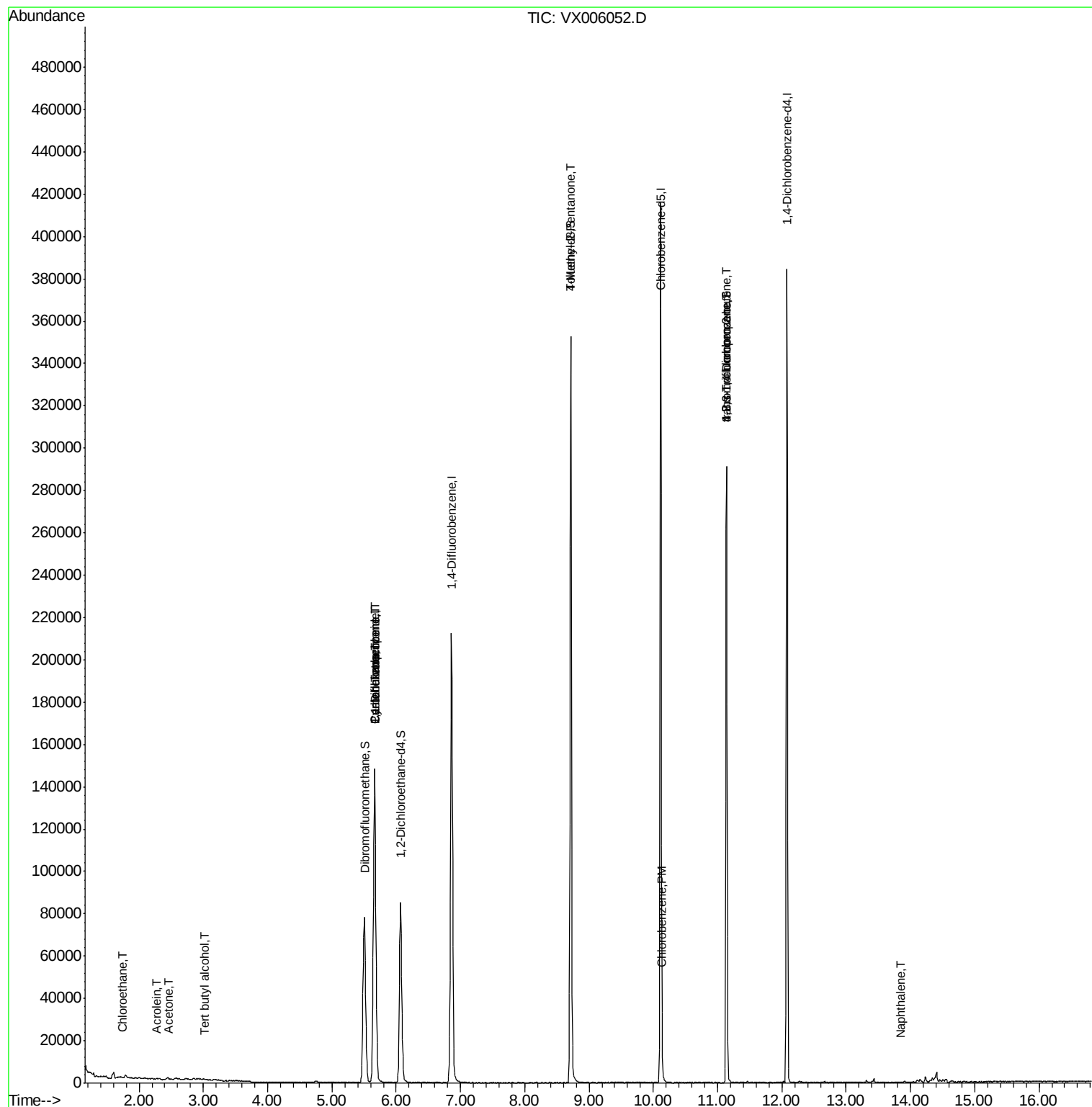
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.74  | 64   | 3538     | 3.379     | ug/l # | 42     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 291      | 0.598     | ug/l # | 72     |
| 13) Acrolein                   | 2.28  | 56   | 44       | 19.339    | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43   | 1173     | 1.283     | ug/l   | 94     |
| 18) Methyl Acetate             | 2.78  | 43   | 384      | Below Cal | #      | 55     |
| 31) Cyclohexane                | 5.67  | 56   | 2598     | 1.098     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 9657     | 4.904     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 12298    | 6.238     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 8.71  | 43   | 964      | 0.408     | ug/l # | 1      |
| 65) Chlorobenzene              | 10.14 | 112  | 798      | 0.201     | ug/l   | 91     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 36075    | 22.058    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 36075    | 70.303    | ug/l # | 9      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 133      | Below Cal | #      | 31     |
| 95) Naphthalene                | 13.83 | 128  | 261      | 1.222     | ug/l # | 69     |

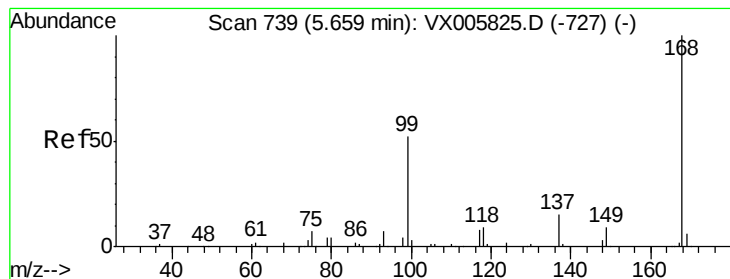
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111618\  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-4

Quant Time: Nov 17 00:44:23 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 07 14:40:53 2018  
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: VX006052.D

Acq: 16 Nov 2018 16:15

Instrument :

MSVOA\_X

ClientSampled :

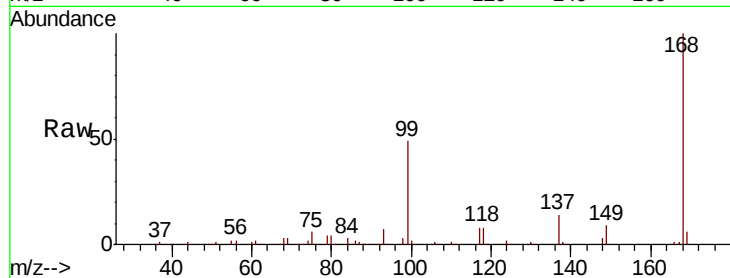
MW-4

Tot Ion:168 Resp: 147731

Ion Ratio Lower Upper

168 100

99 48.6 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

50000

40000

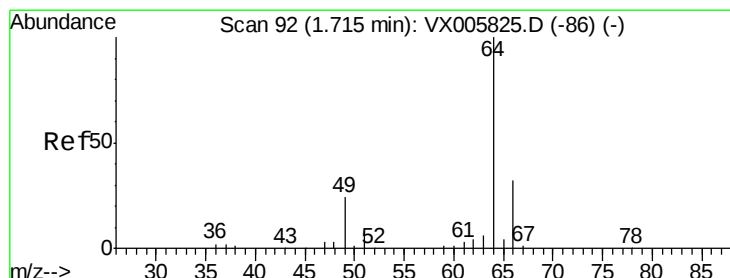
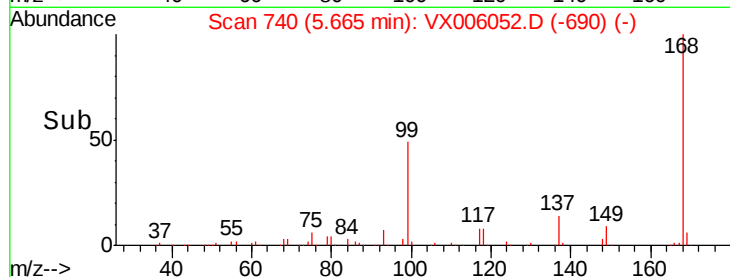
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 3.379 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX006052.D

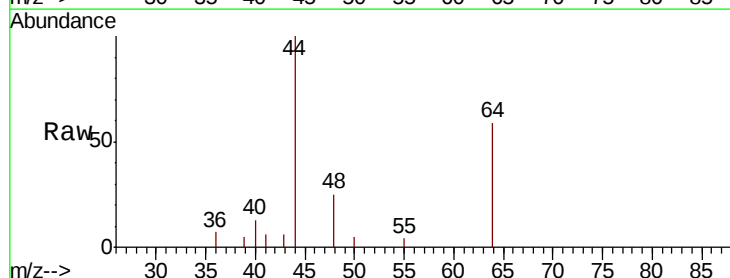
Acq: 16 Nov 2018 16:15

Tgt Ion: 64 Resp: 3538

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.74

800

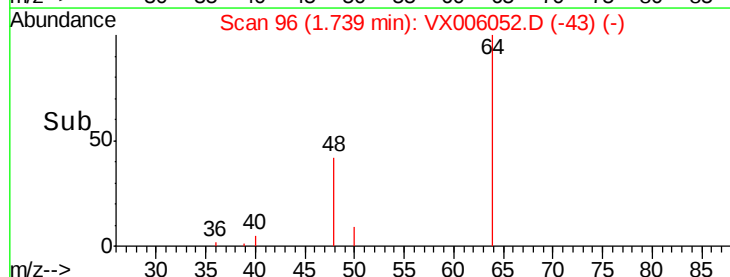
600

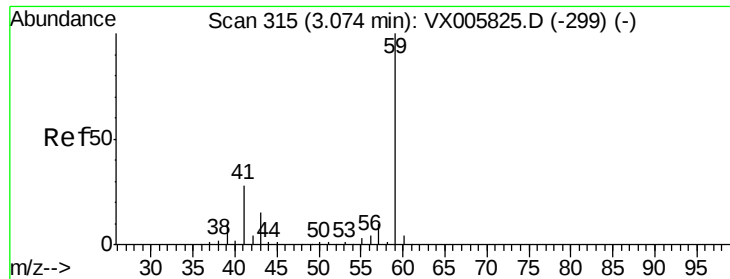
400

200

0

Time--> 1.50 1.60 1.70 1.80

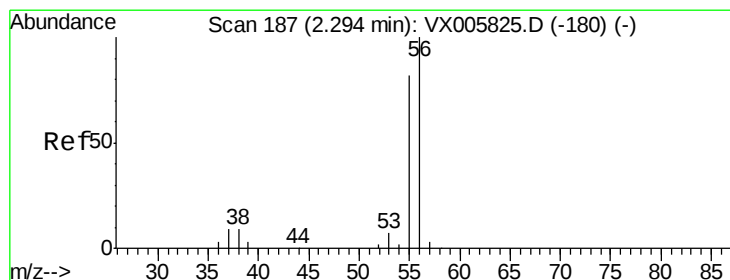
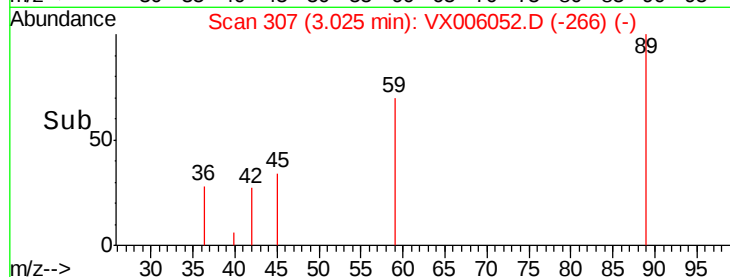
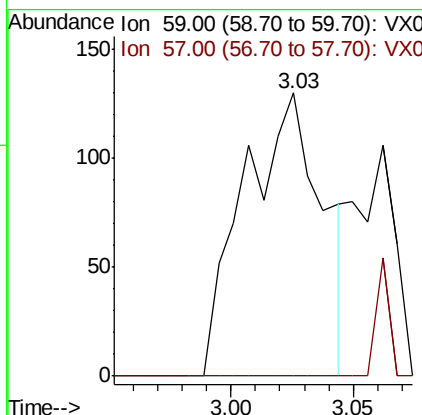
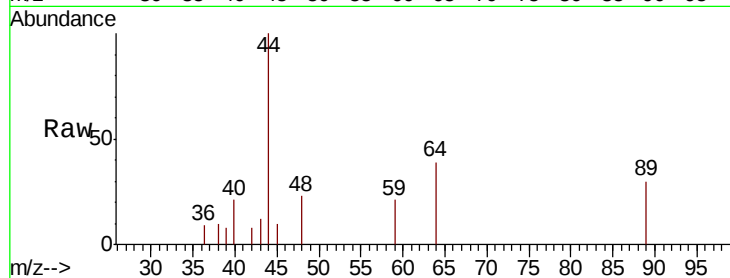




#11  
Tert butyl alcohol  
Concen: 0.598 ug/l  
RT: 3.03 min Scan# 307  
Delta R.T. -0.05 min  
Lab File: VX006052.D  
Acq: 16 Nov 2018 16:15

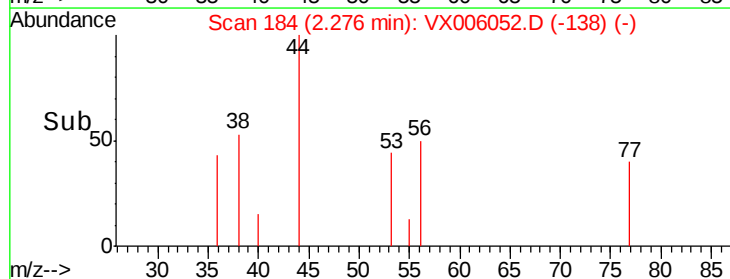
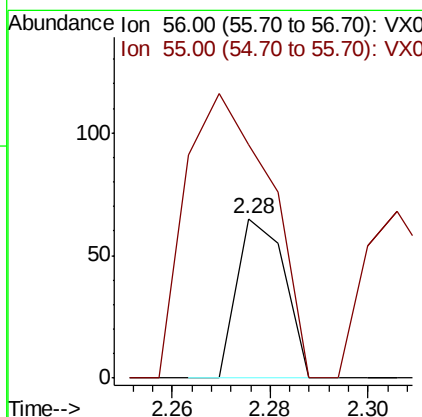
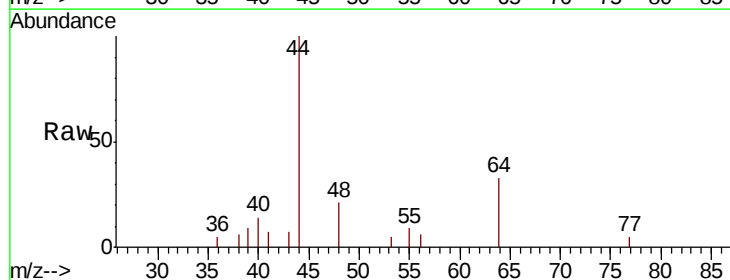
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

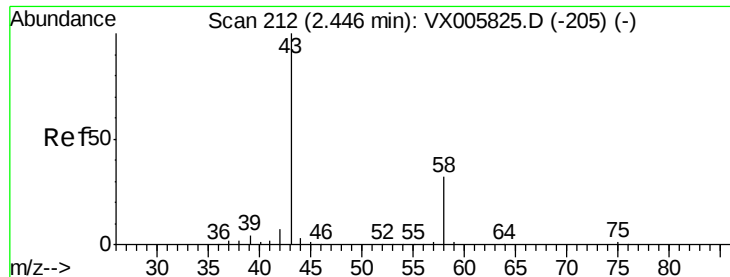
Tot Ion: 59 Resp: 291  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#13  
Acrolein  
Concen: 19.339 ug/l  
RT: 2.28 min Scan# 184  
Delta R.T. -0.02 min  
Lab File: VX006052.D  
Acq: 16 Nov 2018 16:15

Tgt Ion: 56 Resp: 44  
Ion Ratio Lower Upper  
56 100  
55 313.6 57.3 85.9#





#16

Acetone

Concen: 1.283 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006052.D

Acq: 16 Nov 2018 16:15

Instrument :

MSVOA\_X

ClientSampled :

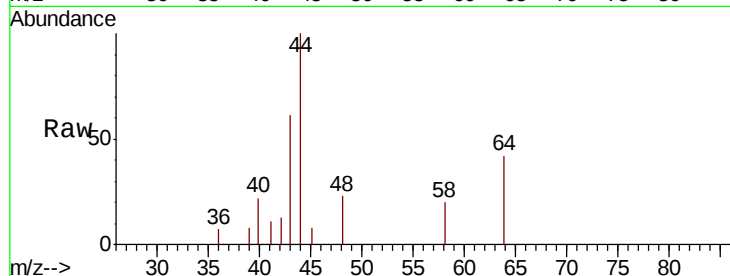
MW-4

Tot Ion: 43 Resp: 1173

Ion Ratio Lower Upper

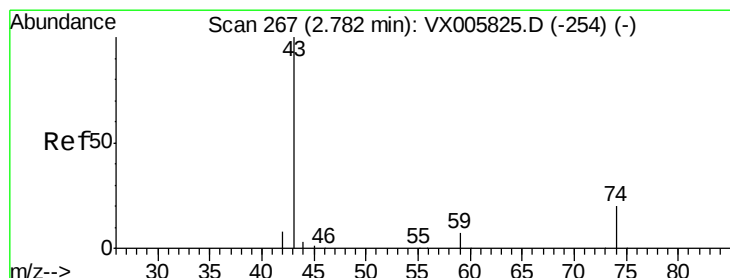
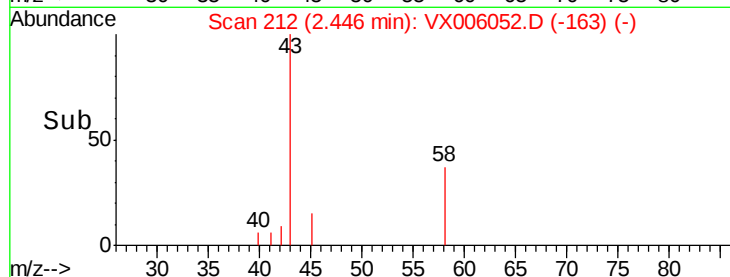
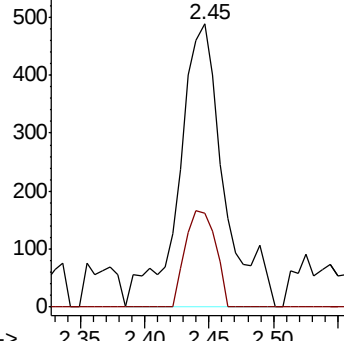
43 100

58 33.0 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX006052.D

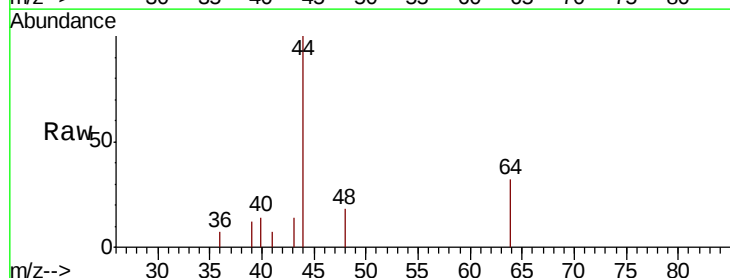
Acq: 16 Nov 2018 16:15

Tgt Ion: 43 Resp: 384

Ion Ratio Lower Upper

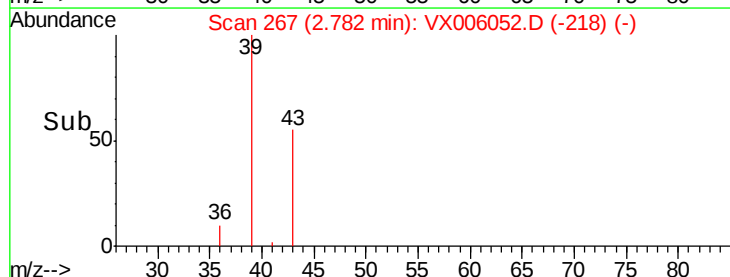
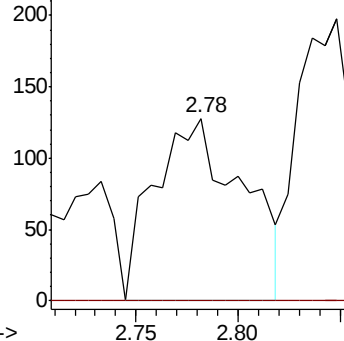
43 100

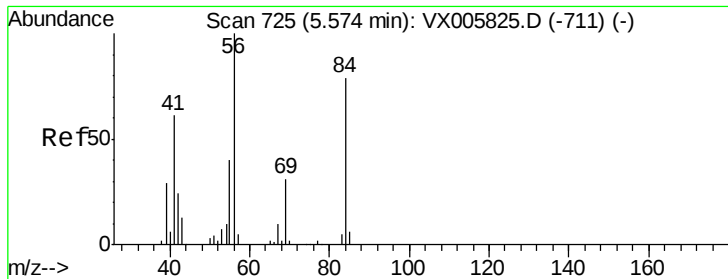
74 0.0 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

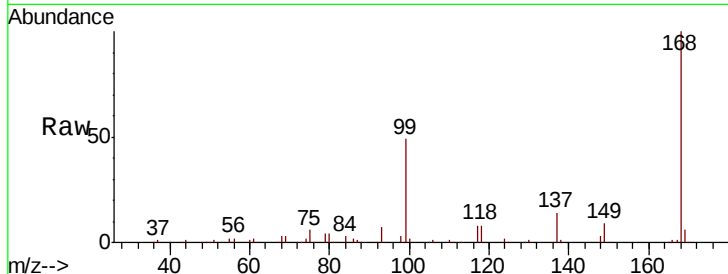




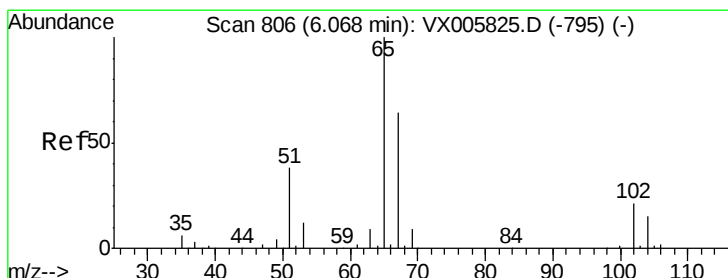
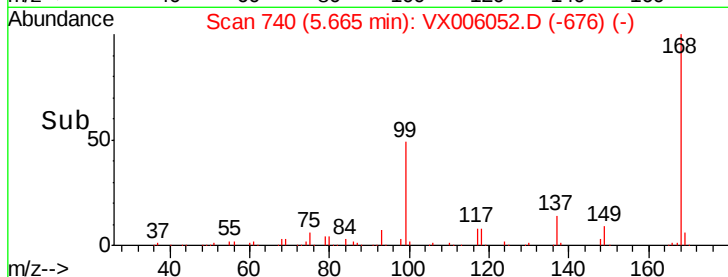
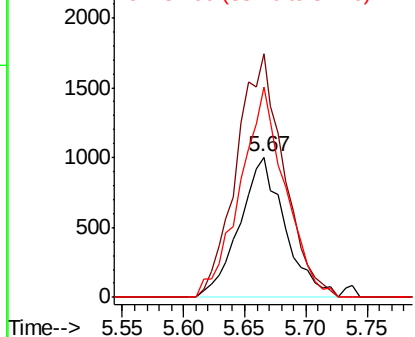
#31  
Cyclohexane  
Concen: 1.098 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX006052.D  
Acq: 16 Nov 2018 16:15

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

Tot Ion: 56 Resp: 2598  
Ion Ratio Lower Upper  
56 100  
69 173.5 22.6 34.0#  
84 149.6 62.7 94.1#

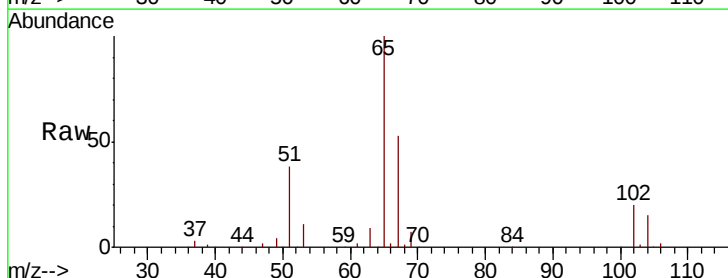


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

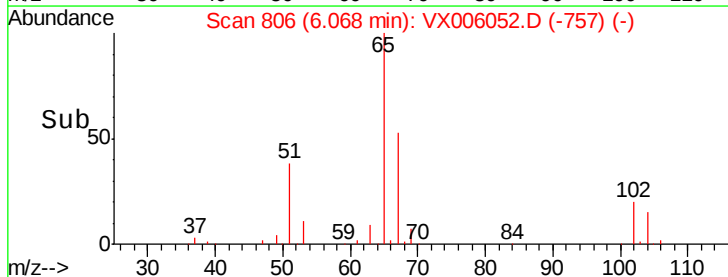
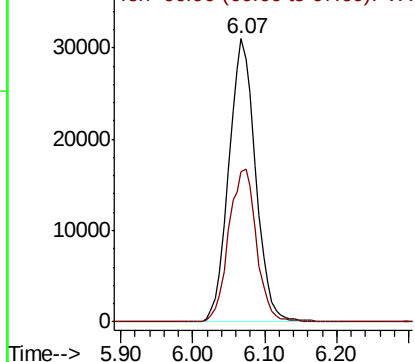


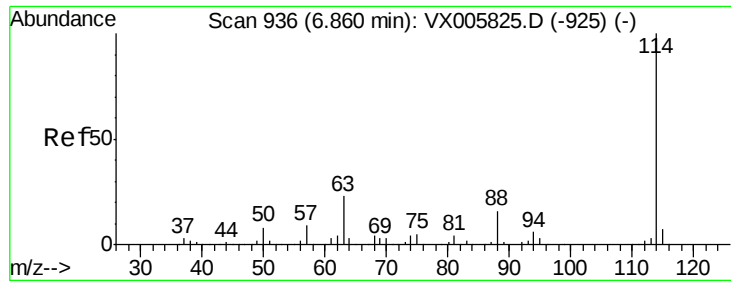
#33  
1,2-Dichloroethane-d4  
Concen: 47.194 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX006052.D  
Acq: 16 Nov 2018 16:15

Tgt Ion: 65 Resp: 80153  
Ion Ratio Lower Upper  
65 100  
67 55.7 0.0 105.0



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

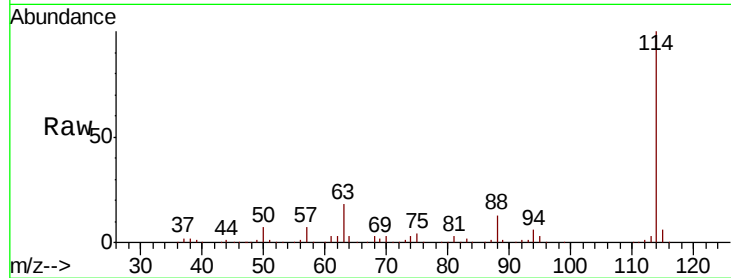




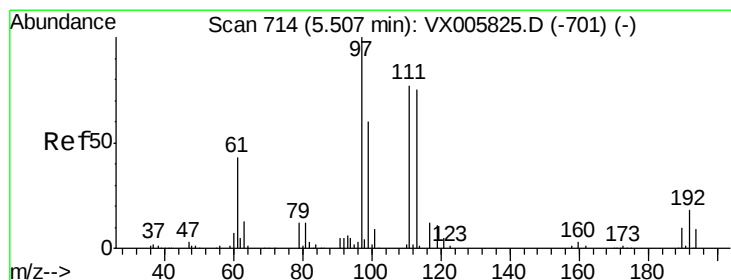
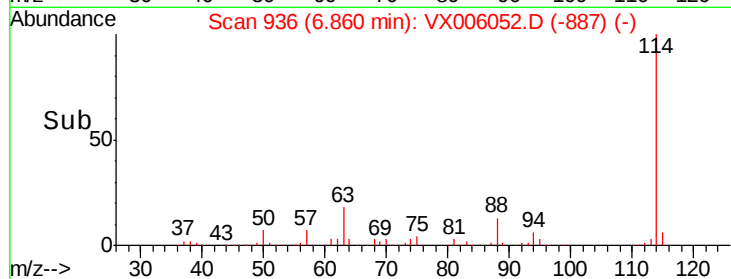
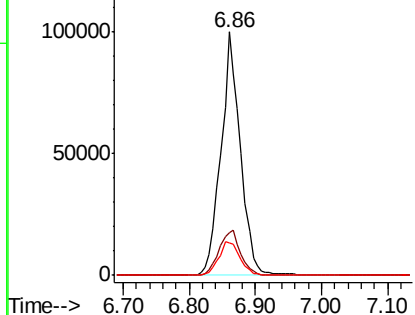
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX006052.D  
 Acq: 16 Nov 2018 16:15

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-4

Tot Ion:114 Resp: 204267  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 42.8  
 88 13.3 0.0 31.2

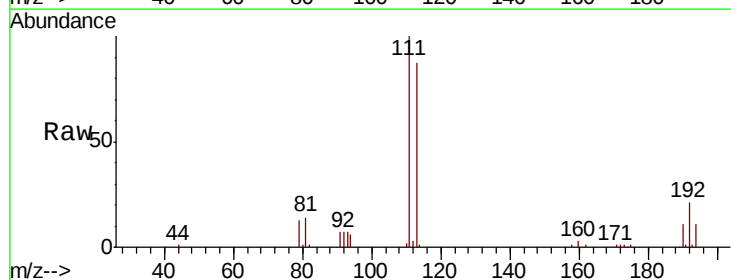


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

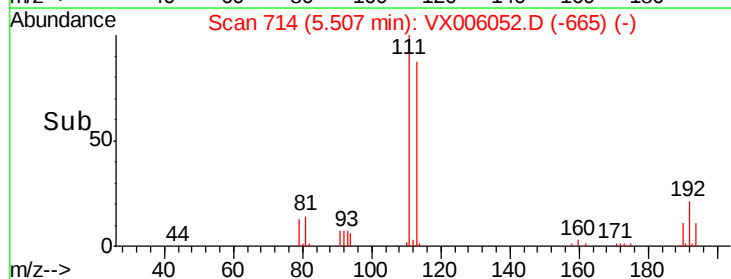
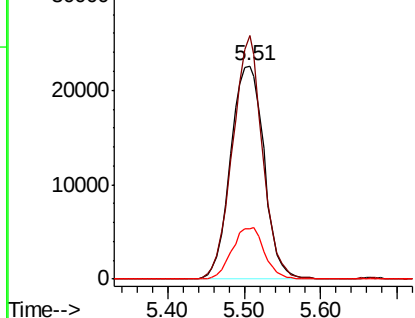


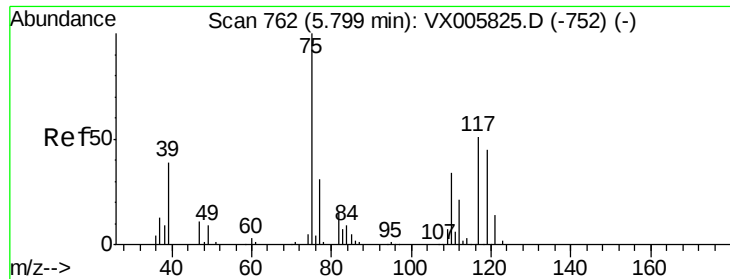
#35  
 Dibromofluoromethane  
 Concen: 49.216 ug/l  
 RT: 5.51 min Scan# 714  
 Delta R.T. -0.00 min  
 Lab File: VX006052.D  
 Acq: 16 Nov 2018 16:15

Tgt Ion:113 Resp: 68377  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 82.3 123.5  
 192 23.2 17.9 26.9



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: 4.904 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006052.D

Acq: 16 Nov 2018 16:15

Instrument :

MSVOA\_X

ClientSampled :

MW-4

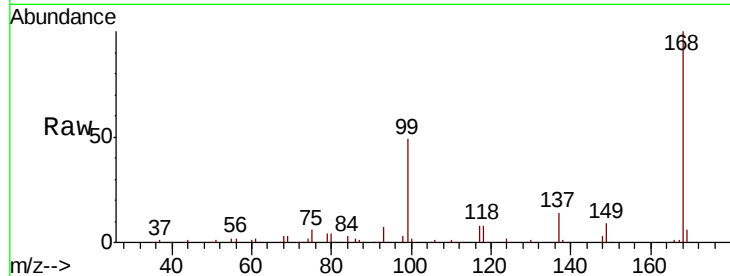
Tot Ion: 75 Resp: 9657

Ion Ratio Lower Upper

75 100

110 8.3 17.4 52.2#

77 0.0 25.8 38.6#

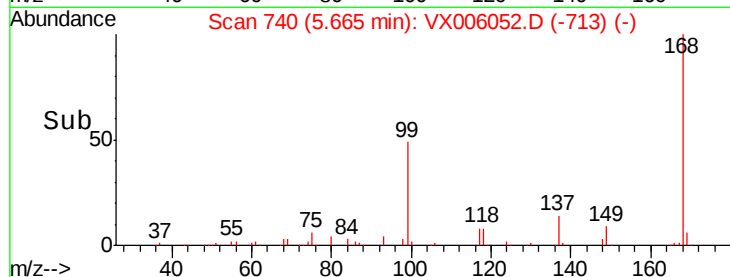


Abundance Ion 74.90 (74.60 to 75.60): VX006052.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX006052.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX006052.D (-713) (-)

Time-->



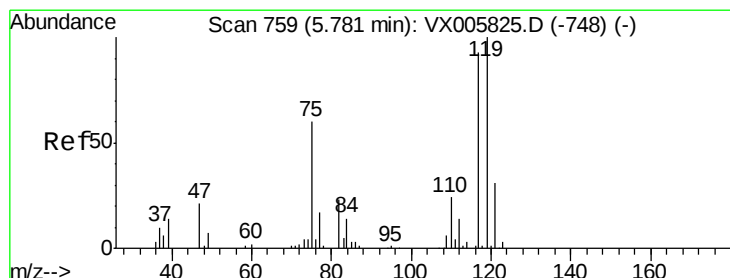
Abundance

Ion 74.90 (74.60 to 75.60): VX006052.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX006052.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX006052.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.238 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006052.D

Acq: 16 Nov 2018 16:15

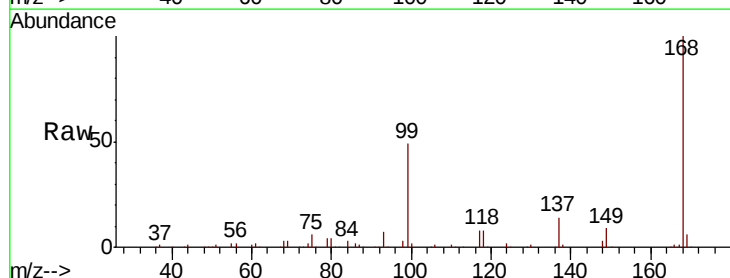
Tgt Ion: 117 Resp: 12298

Ion Ratio Lower Upper

117 100

119 4.4 78.1 117.1#

121 0.0 24.6 36.8#

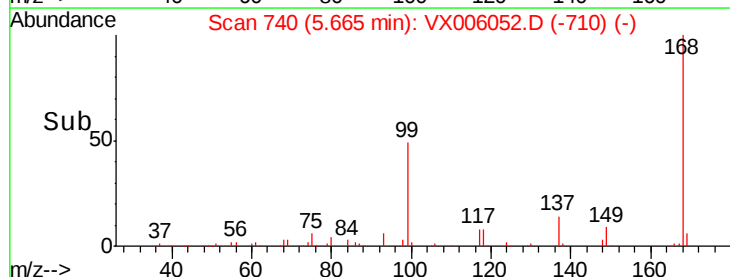


Abundance Ion 116.80 (116.50 to 117.50): VX006052.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX006052.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX006052.D (-710) (-)

Time-->



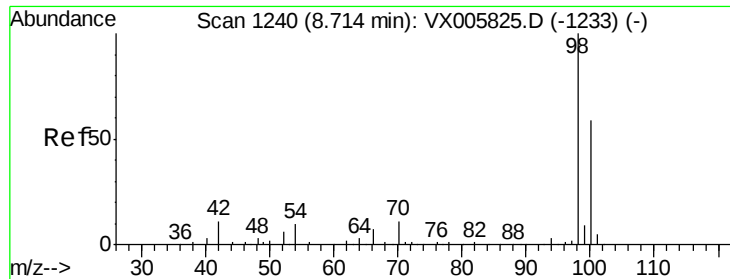
Abundance

Ion 116.80 (116.50 to 117.50): VX006052.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX006052.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX006052.D (-710) (-)

Time-->



#50

Toluene-d8

Concen: 46.855 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006052.D

Acq: 16 Nov 2018 16:15

Instrument :

MSVOA\_X

ClientSampled :

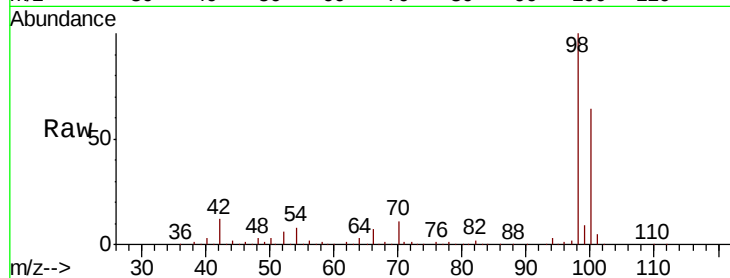
MW-4

Tot Ion: 98 Resp: 216418

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

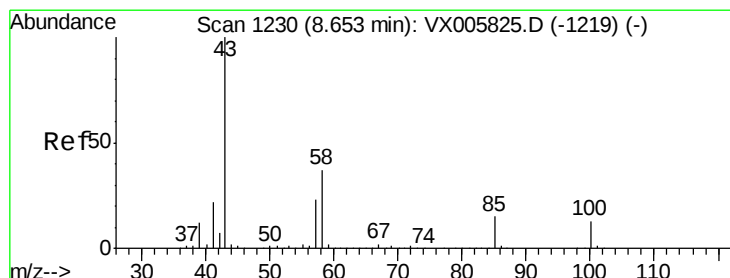
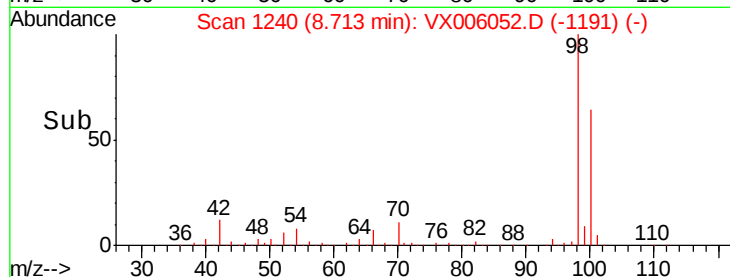
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.408 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX006052.D

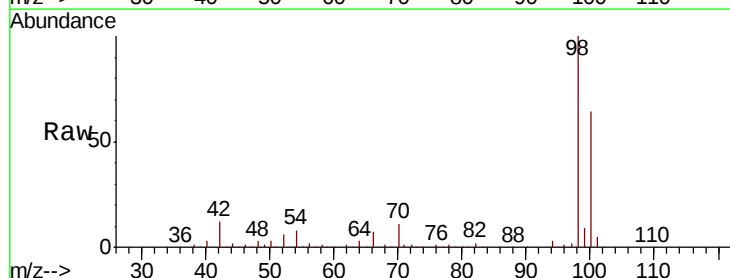
Acq: 16 Nov 2018 16:15

Tgt Ion: 43 Resp: 964

Ion Ratio Lower Upper

43 100

58 176.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1200

1000

800

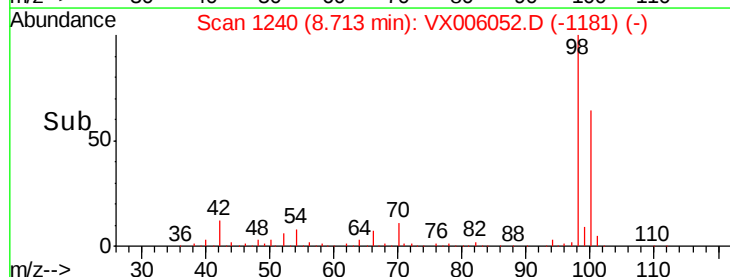
600

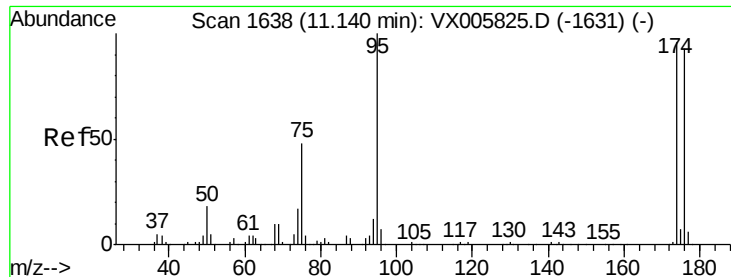
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 44.433 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX006052.D

Acq: 16 Nov 2018 16:15

Instrument :

MSVOA\_X

ClientSampled :

MW-4

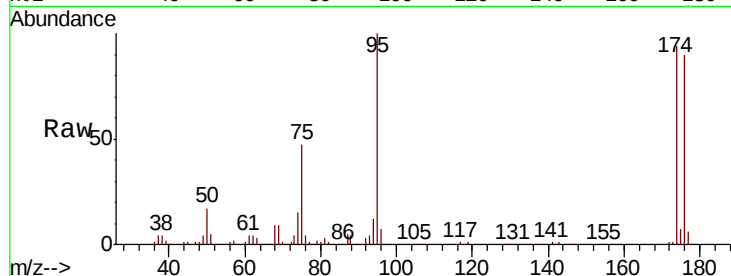
Tot Ion: 95 Resp: 73788

Ion Ratio Lower Upper

95 100

174 92.1 0.0 184.4

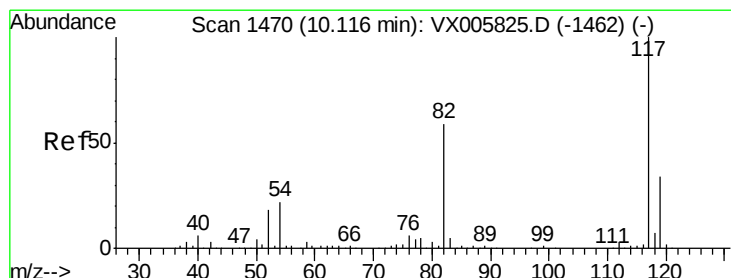
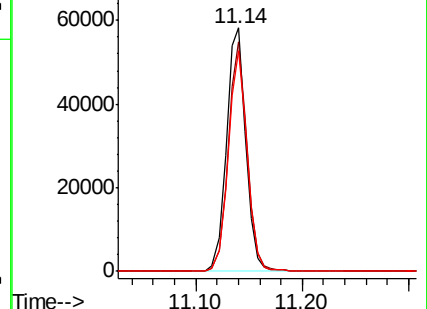
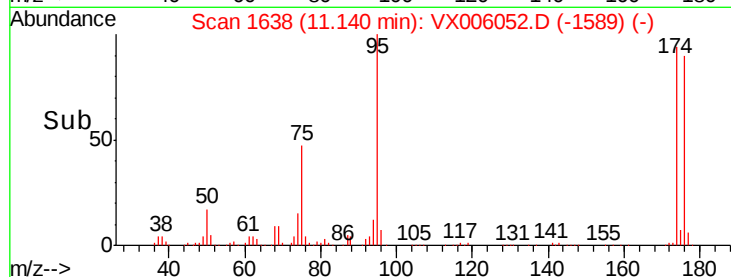
176 88.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX006052.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006052.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006052.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX006052.D

Acq: 16 Nov 2018 16:15

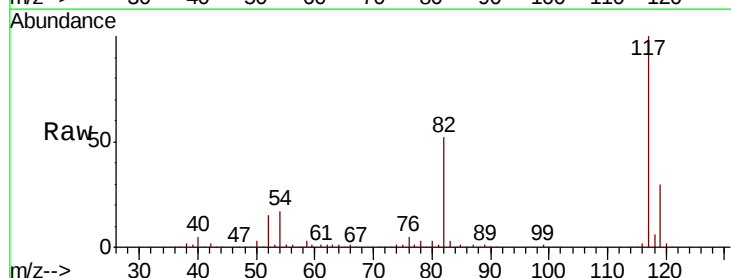
Tgt Ion: 117 Resp: 198175

Ion Ratio Lower Upper

117 100

82 52.1 44.1 66.1

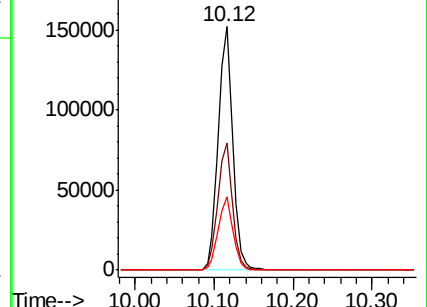
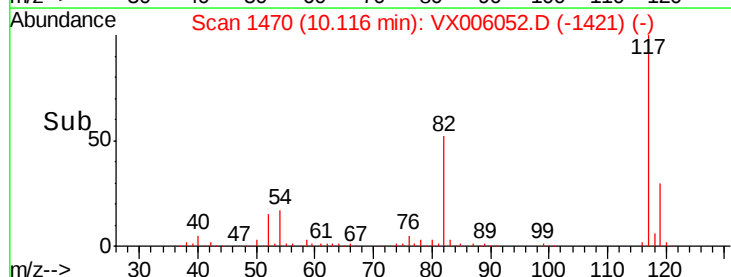
119 29.9 26.2 39.2

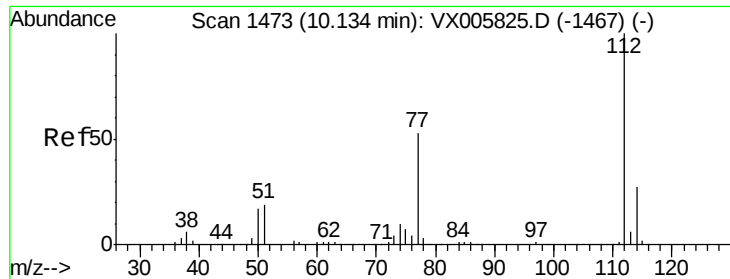


Abundance Ion 116.90 (116.60 to 117.60): VX006052.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006052.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006052.D (-1421) (-)

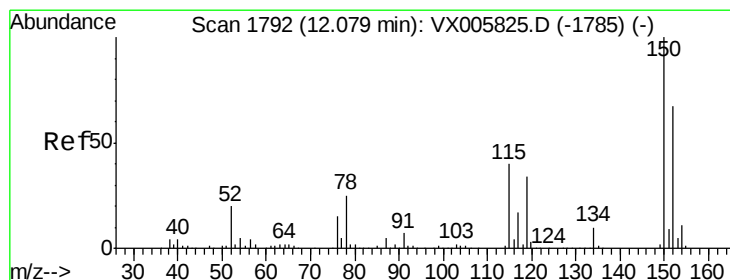
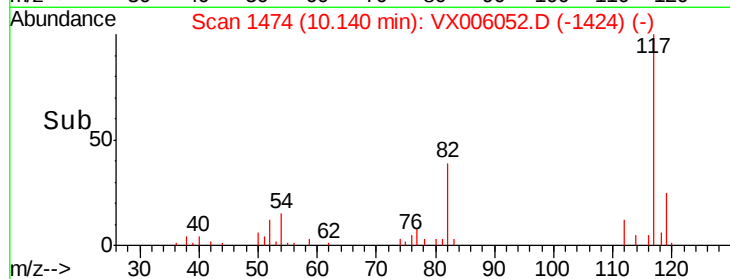
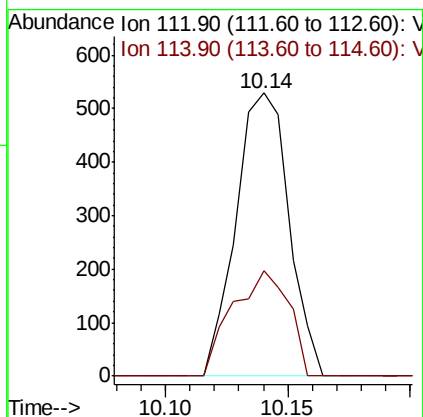
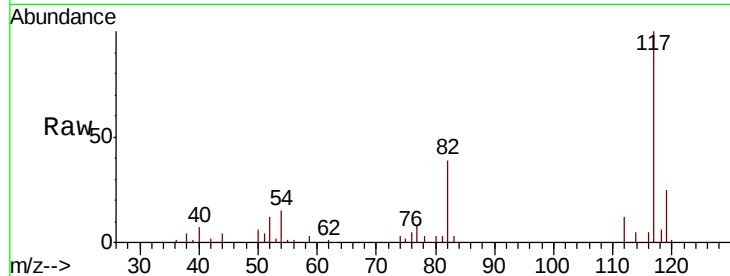




#65  
Chlorobenzene  
Concen: 0.201 ug/l  
RT: 10.14 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: VX006052.D  
Acq: 16 Nov 2018 16:15

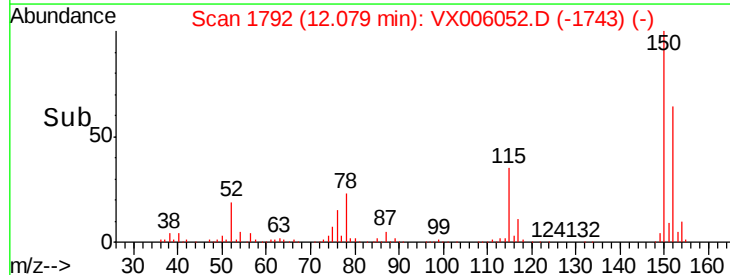
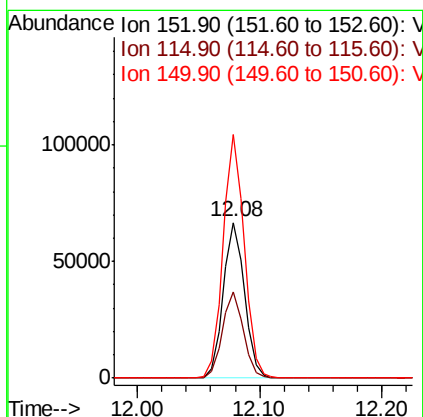
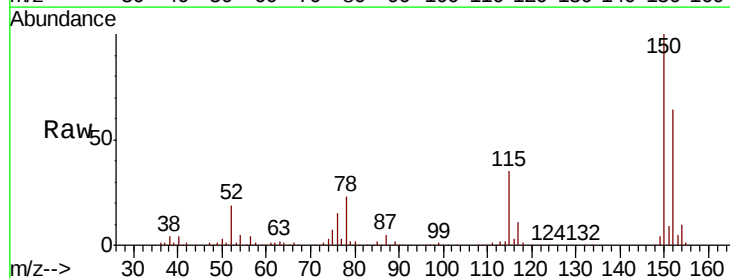
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

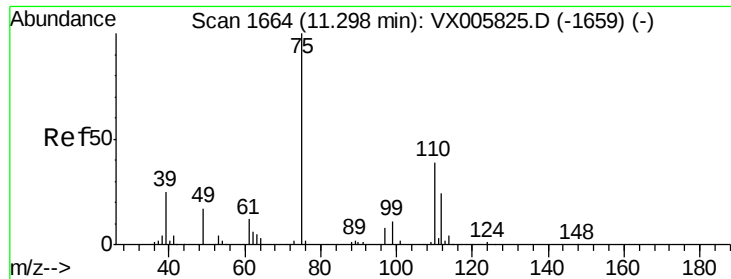
Tot Ion:112 Resp: 798  
Ion Ratio Lower Upper  
112 100  
114 37.2 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX006052.D  
Acq: 16 Nov 2018 16:15

Tgt Ion:152 Resp: 80318  
Ion Ratio Lower Upper  
152 100  
115 55.3 39.4 118.1  
150 155.6 0.0 346.4

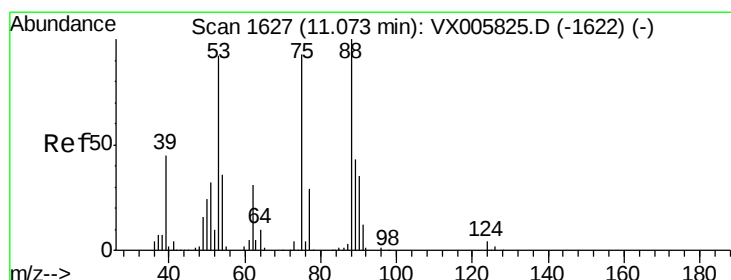
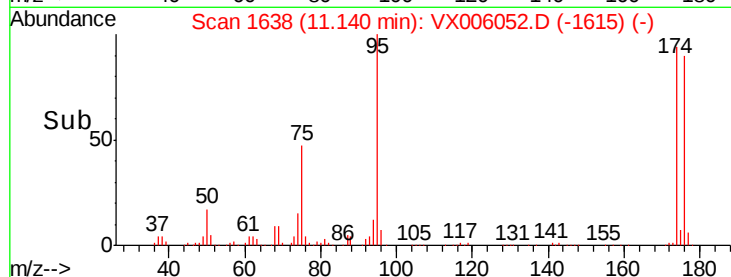
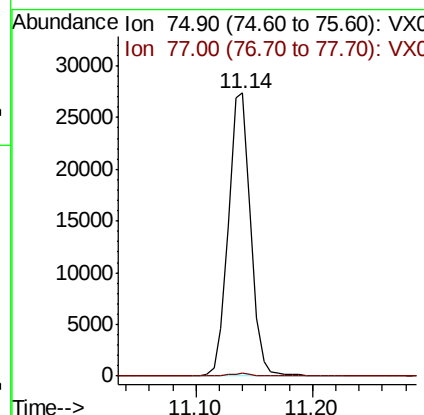
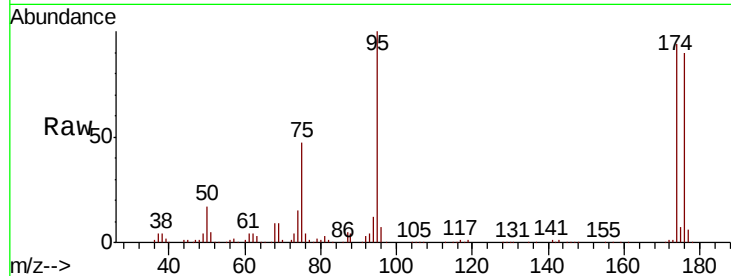




#76  
 1,2,3-Trichloropropane  
 Concen: 22.058 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.16 min  
 Lab File: VX006052.D  
 Acq: 16 Nov 2018 16:15

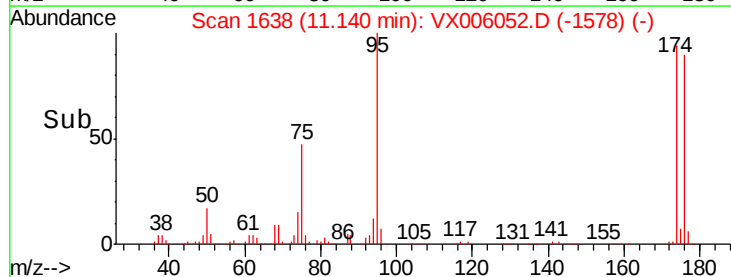
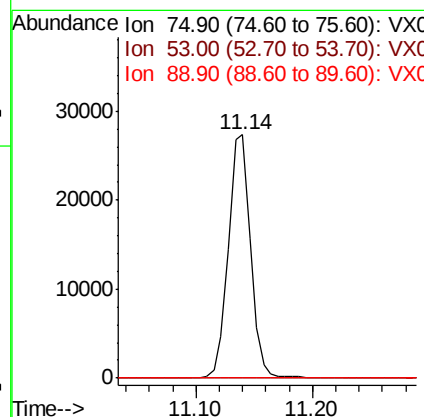
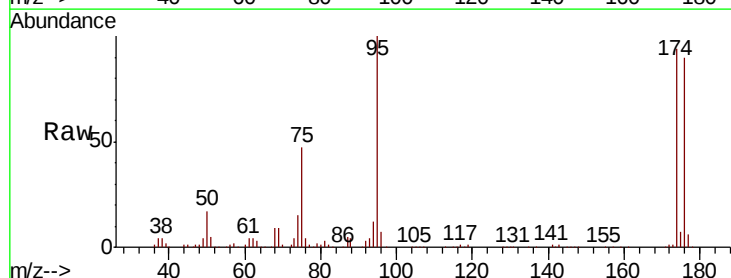
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-4

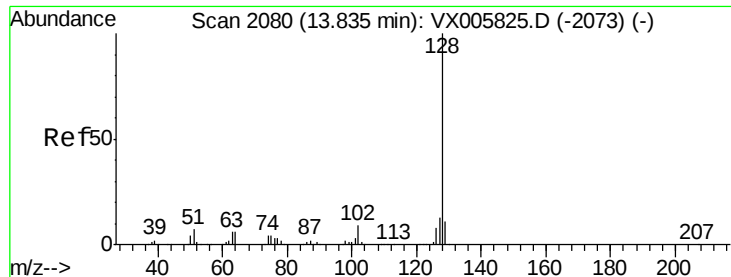
Tot Ion: 75 Resp: 36075  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 20.5 61.6#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 70.303 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. 0.07 min  
 Lab File: VX006052.D  
 Acq: 16 Nov 2018 16:15

Tgt Ion: 75 Resp: 36075  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 80.2 120.2#  
 89 0.0 39.8 59.8#





#95

Naphthalene

Concen: 1.222 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006052.D

Acq: 16 Nov 2018 16:15

Instrument :

MSVOA\_X

ClientSampleId :

MW-4

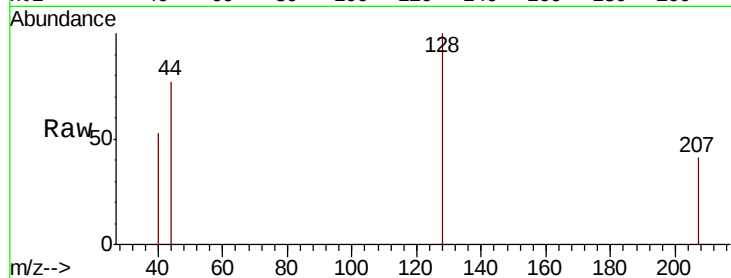
Tot Ion:128 Resp: 261

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

