

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX051618\  
 Data File : VX001770.D  
 Acq On : 16 May 2018 17:50  
 Operator : JC/MD  
 Sample : J2853-09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3TB07-180507

Quant Time: May 17 02:57:17 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X051518W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 01:36:22 2018  
 Response via : Initial Calibration

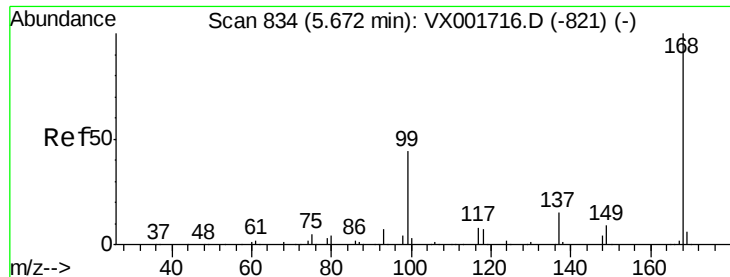
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 280899   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 379370   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 300601   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 143808   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 211742   | 56.24 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.48% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 173837   | 54.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.60% |      |
| 50) Toluene-d8              | 8.72   | 98  | 619690   | 54.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.08% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 170003   | 41.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.36%  |      |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 1172     | Below Cal |        | 82     |
| 10) Methyl Iodide              | 2.52  | 142  | 1308     | 0.49      | ug/l   | 98     |
| 11) Tert butyl alcohol         | 3.08  | 59   | 444      | 0.66      | ug/l   | 99     |
| 16) Acetone                    | 2.45  | 43   | 8170     | 5.52      | ug/l   | 100    |
| 20) Methylene Chloride         | 2.86  | 84   | 1309     | 0.41      | ug/l   | 92     |
| 31) Cyclohexane                | 5.67  | 56   | 4451     | 0.94      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 16292    | 3.73      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 23656    | 5.17      | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 81358    | 29.75     | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 81358    | 86.11     | ug/l # | 10     |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

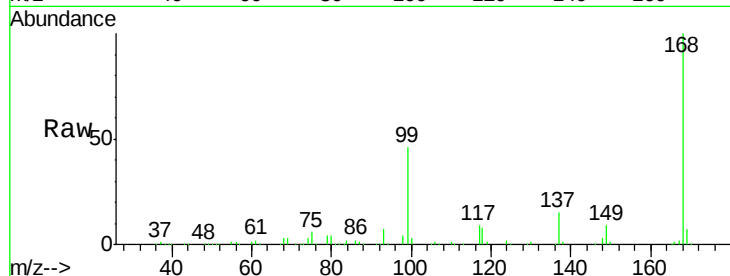
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3TB07-180507

Tgt Ion:168 Resp: 280899

Ion Ratio Lower Upper

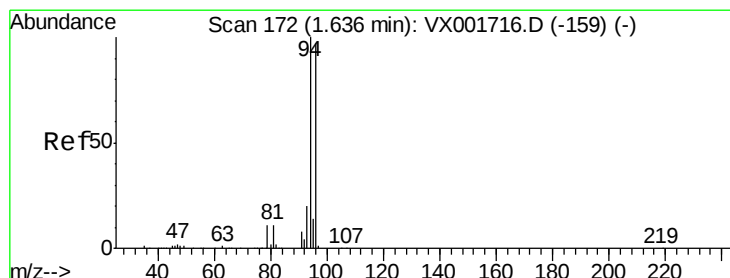
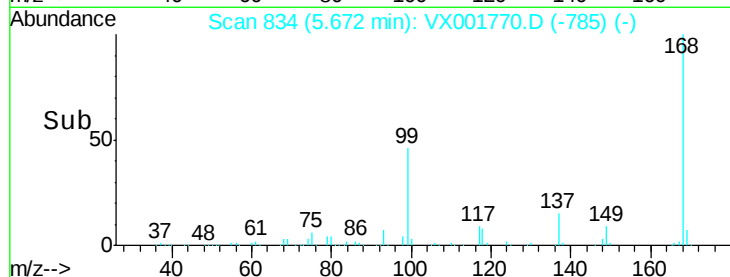
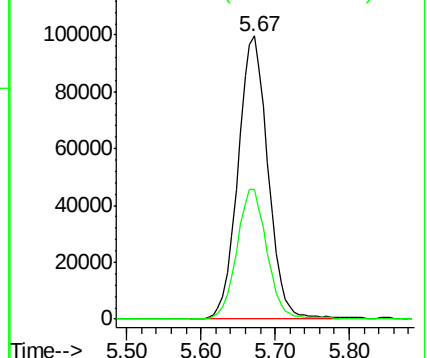
168 100

99 45.7 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX001770.D

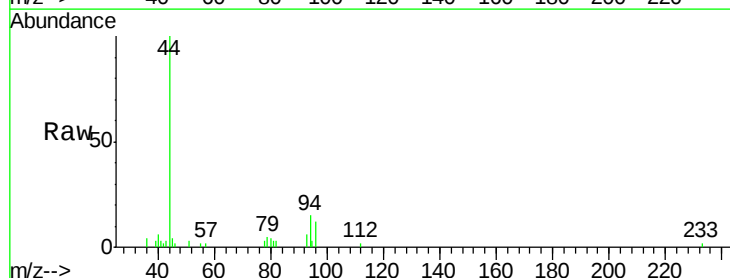
Acq: 16 May 2018 17:50

Tgt Ion: 94 Resp: 1172

Ion Ratio Lower Upper

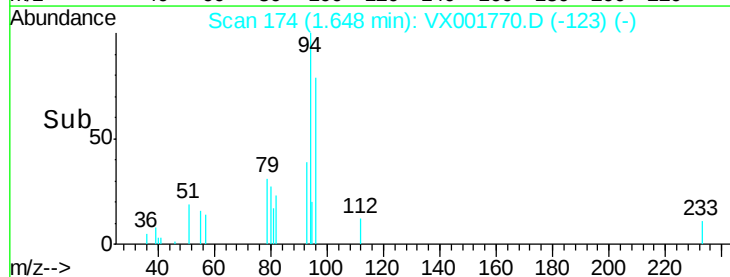
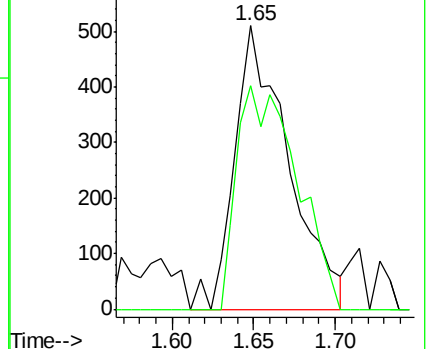
94 100

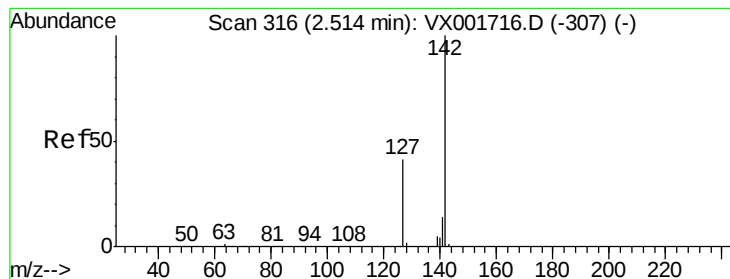
96 79.0 77.4 116.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 0.49 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

Instrument :

MSVOA\_X

ClientSampleId :

Z3TB07-180507

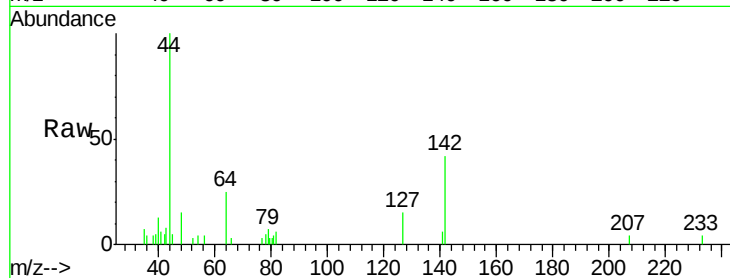
Tgt Ion:142 Resp: 1308

Ion Ratio Lower Upper

142 100

127 38.8 32.5 48.7

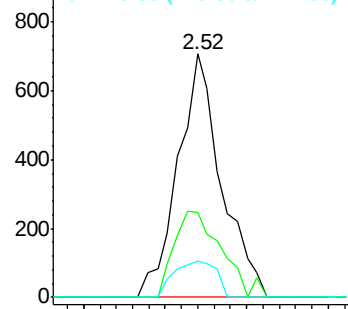
141 14.4 11.4 17.0



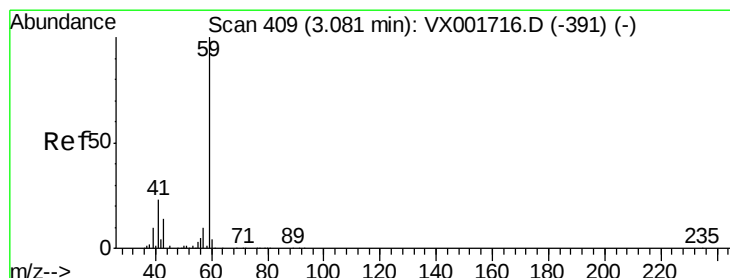
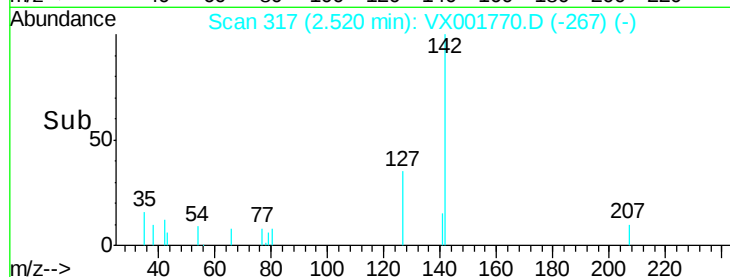
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#11

Tert butyl alcohol

Concen: 0.66 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.00 min

Lab File: VX001770.D

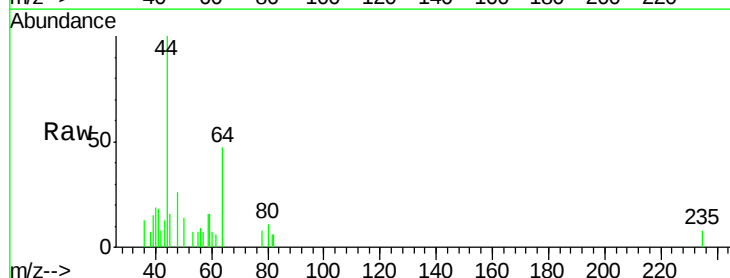
Acq: 16 May 2018 17:50

Tgt Ion: 59 Resp: 444

Ion Ratio Lower Upper

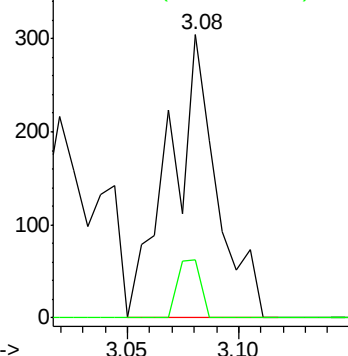
59 100

57 10.1 8.5 12.7

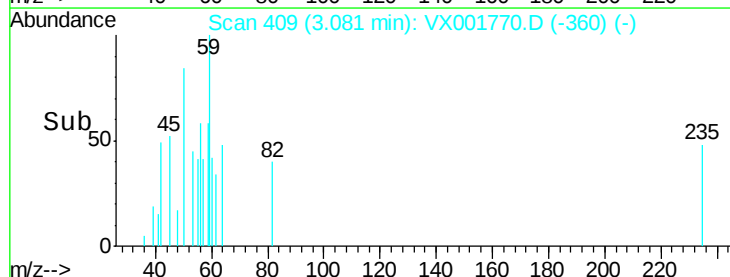


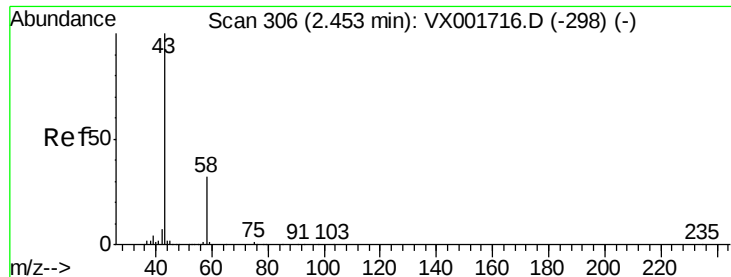
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->





#16

Acetone

Concen: 5.52 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

Instrument :

MSVOA\_X

ClientSampleId :

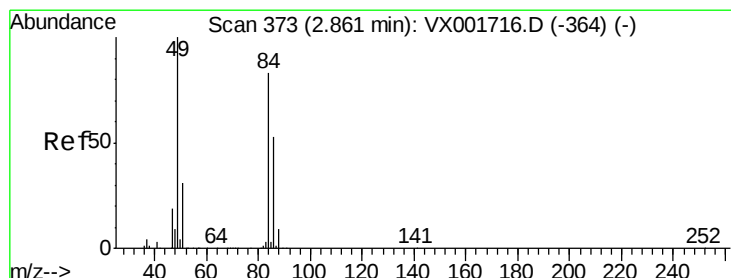
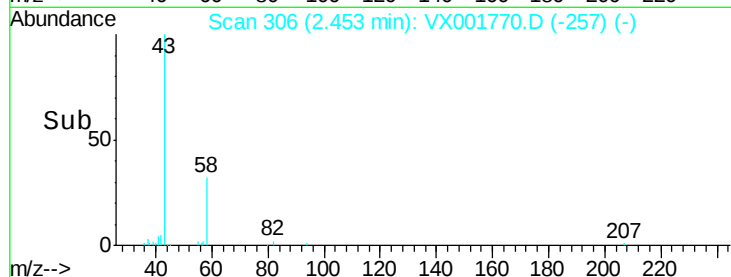
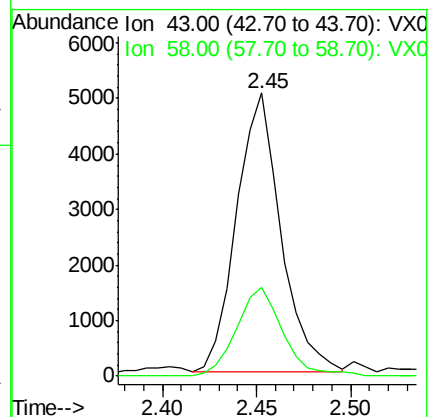
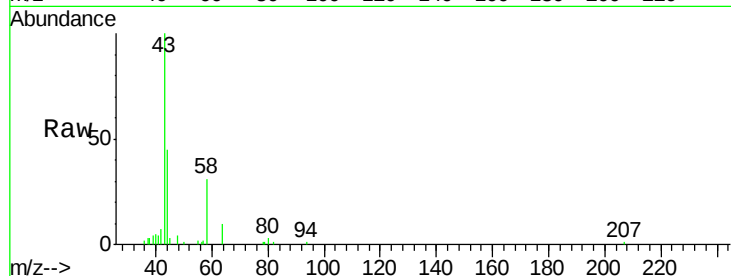
Z3TB07-180507

Tgt Ion: 43 Resp: 8170

Ion Ratio Lower Upper

43 100

58 31.9 25.3 37.9



#20

Methylene Chloride

Concen: 0.41 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

Tgt Ion: 84 Resp: 1309

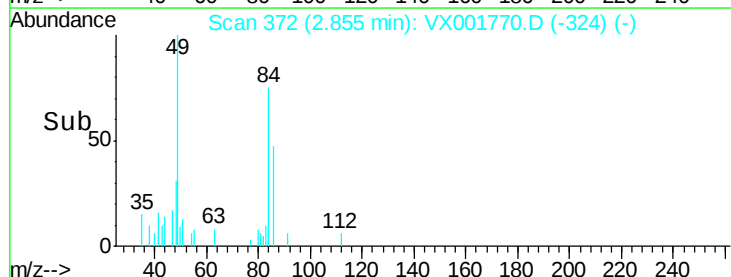
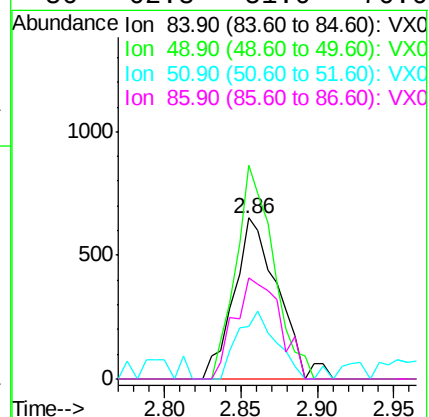
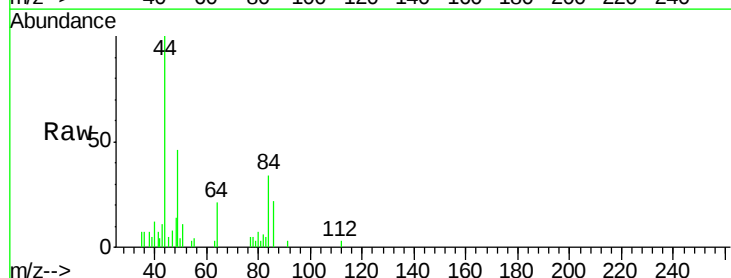
Ion Ratio Lower Upper

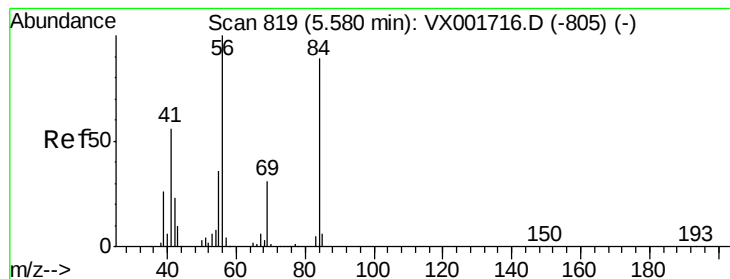
84 100

49 132.9 96.3 144.5

51 32.5 29.8 44.6

86 62.8 51.0 76.6





#31

Cyclohexane

Concen: 0.94 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

Instrument :

MSVOA\_X

ClientSampleId :

Z3TB07-180507

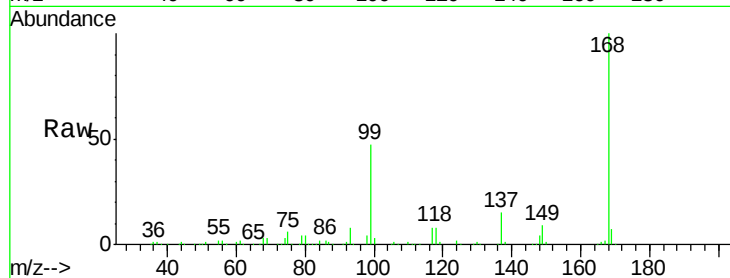
Tgt Ion: 56 Resp: 4451

Ion Ratio Lower Upper

56 100

69 206.4 25.0 37.6#

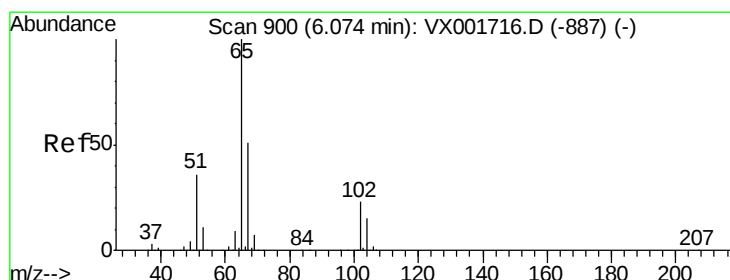
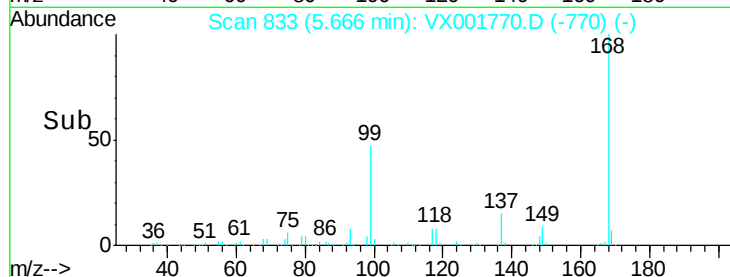
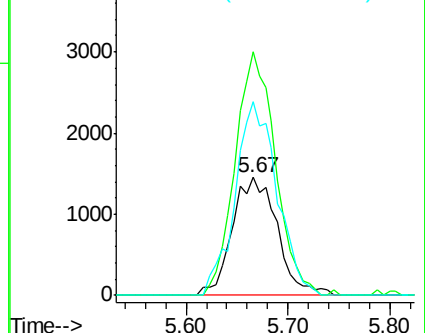
84 163.8 71.0 106.4#



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: 56.24 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001770.D

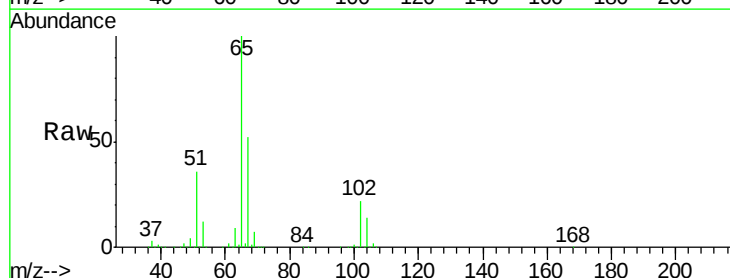
Acq: 16 May 2018 17:50

Tgt Ion: 65 Resp: 211742

Ion Ratio Lower Upper

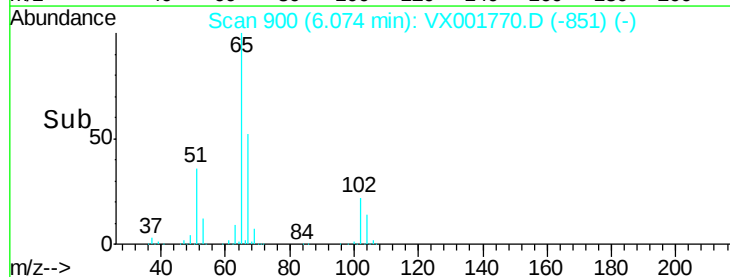
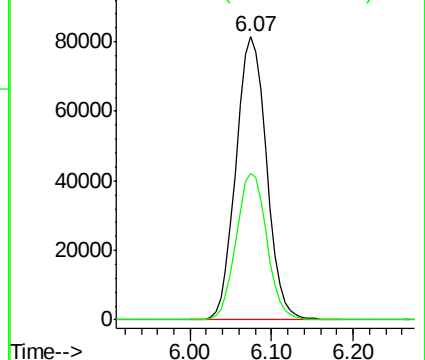
65 100

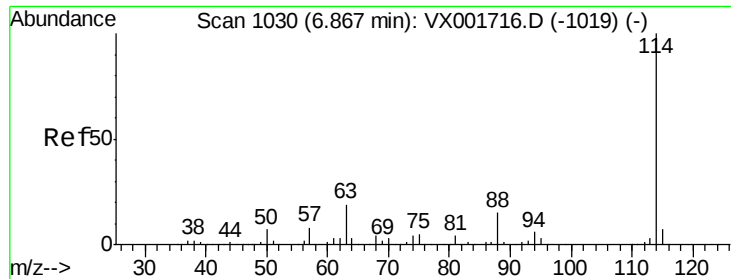
67 51.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

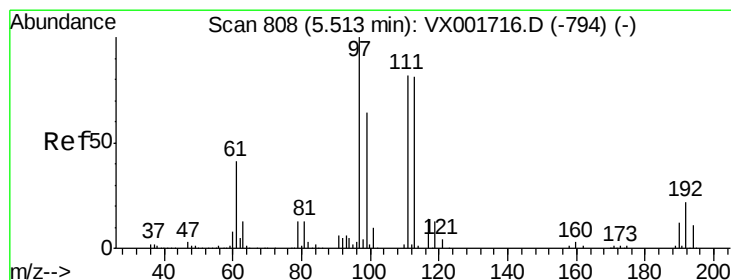
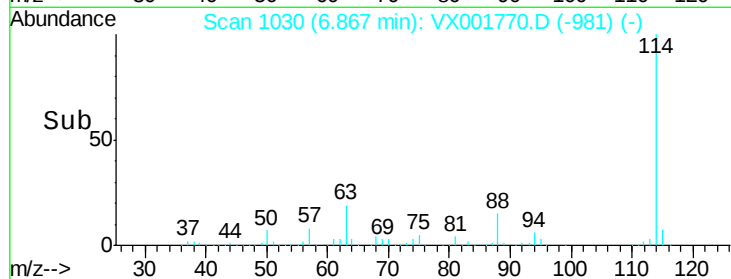
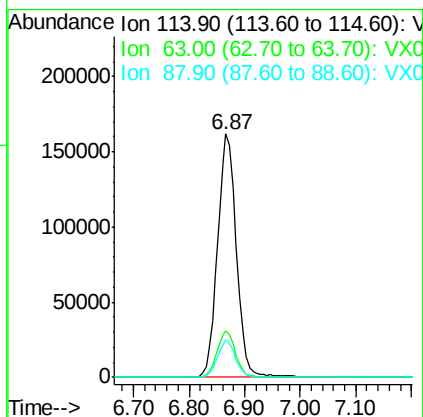
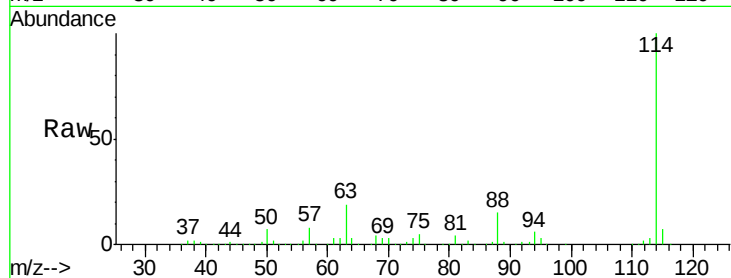




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX001770.D  
 Acq: 16 May 2018 17:50

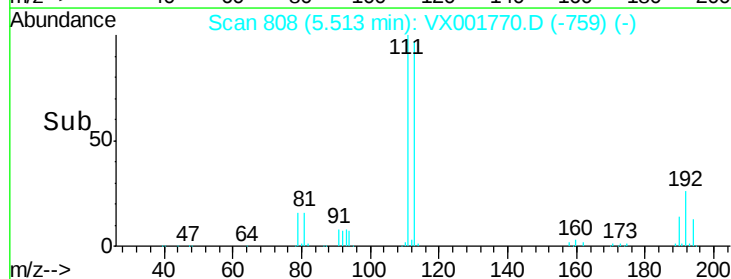
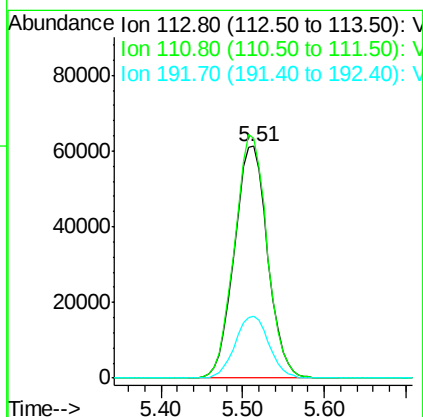
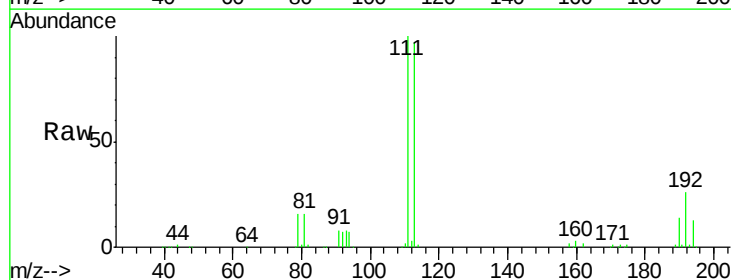
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3TB07-180507

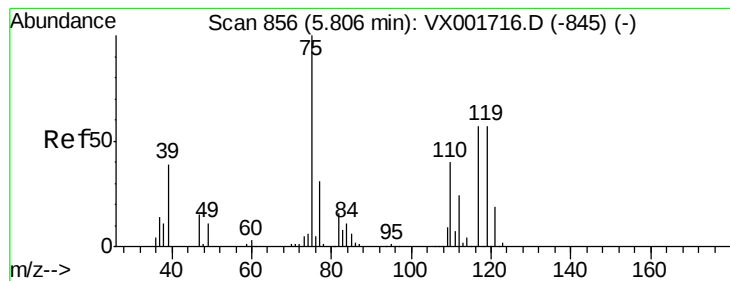
Tgt Ion:114 Resp: 379370  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 37.0  
 88 15.2 0.0 29.8



#35  
 Dibromofluoromethane  
 Concen: 54.30 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX001770.D  
 Acq: 16 May 2018 17:50

Tgt Ion:113 Resp: 173837  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.0 123.0  
 192 27.1 21.6 32.4





#36

1,1-Dichloropropene

Concen: 3.73 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

Instrument :

MSVOA\_X

ClientSampleId :

Z3TB07-180507

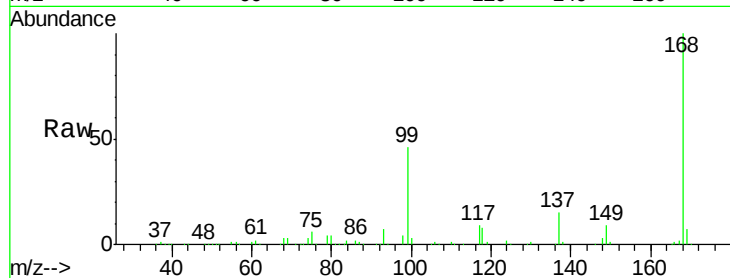
Tgt Ion: 75 Resp: 16292

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.1#

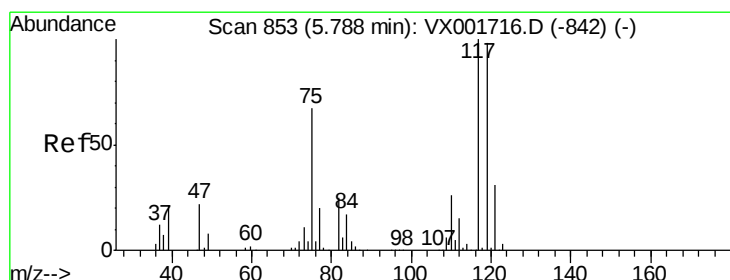
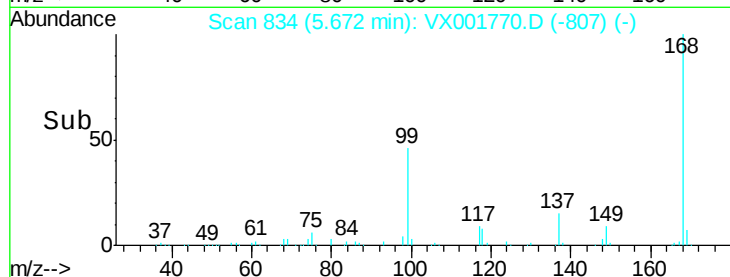
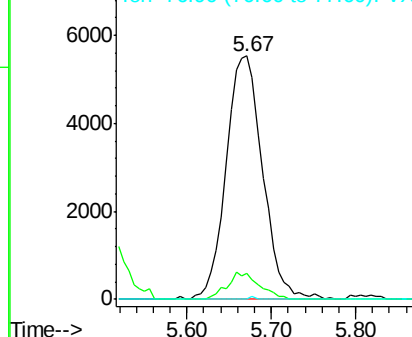
77 0.1 24.6 37.0#



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: 5.17 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

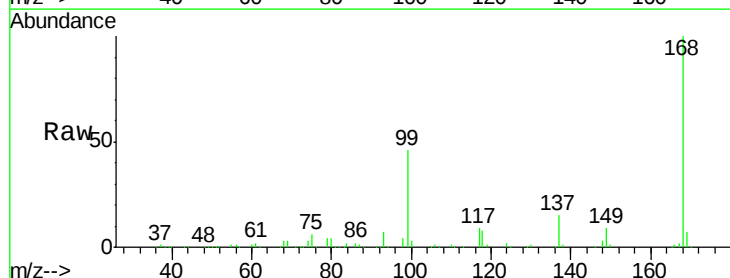
Tgt Ion: 117 Resp: 23656

Ion Ratio Lower Upper

117 100

119 5.9 77.6 116.4#

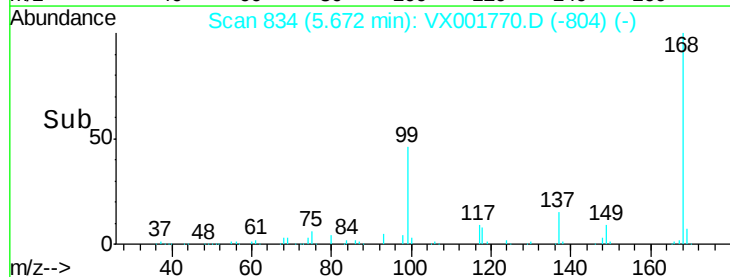
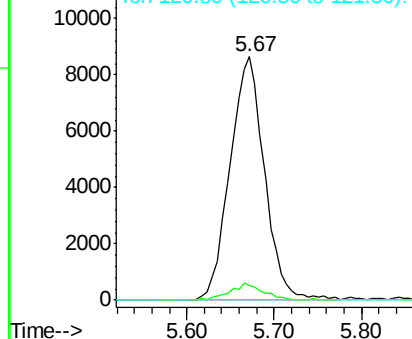
121 0.0 24.6 36.8#

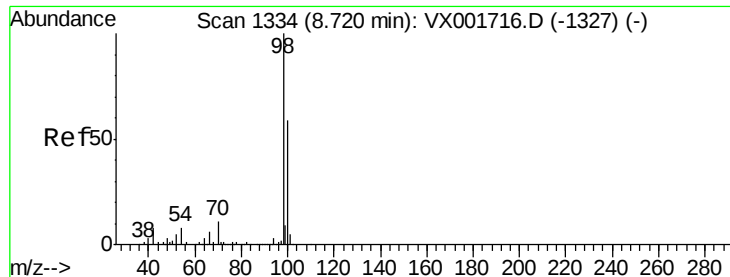


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 54.04 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

Instrument :

MSVOA\_X

ClientSampleId :

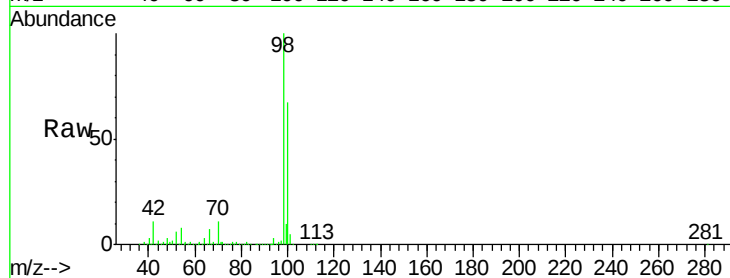
Z3TB07-180507

Tgt Ion: 98 Resp: 619690

Ion Ratio Lower Upper

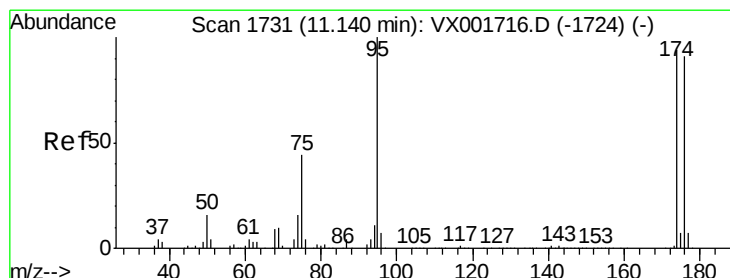
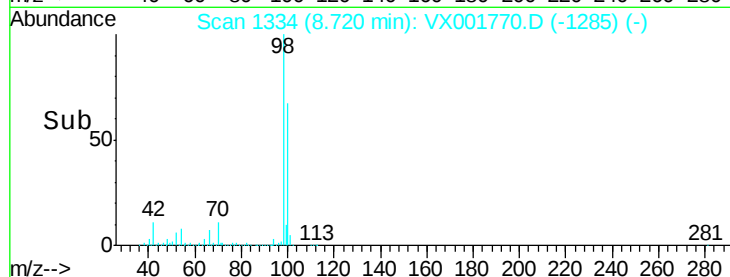
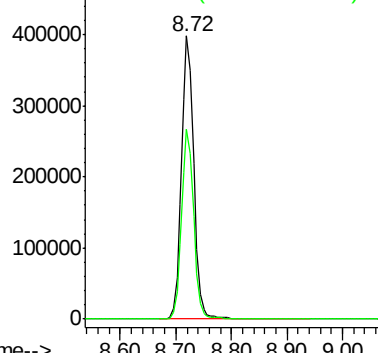
98 100

100 66.3 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 41.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX001770.D

Acq: 16 May 2018 17:50

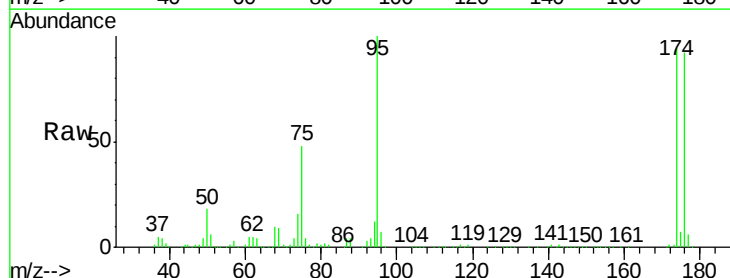
Tgt Ion: 95 Resp: 170003

Ion Ratio Lower Upper

95 100

174 103.0 0.0 201.8

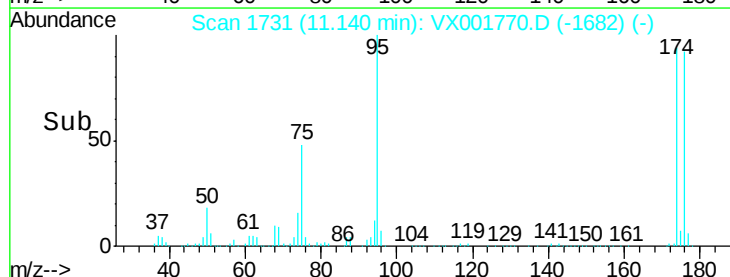
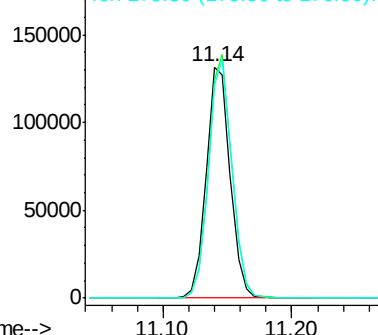
176 100.8 0.0 196.8

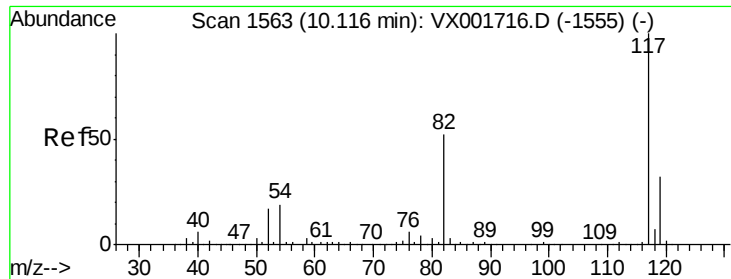


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

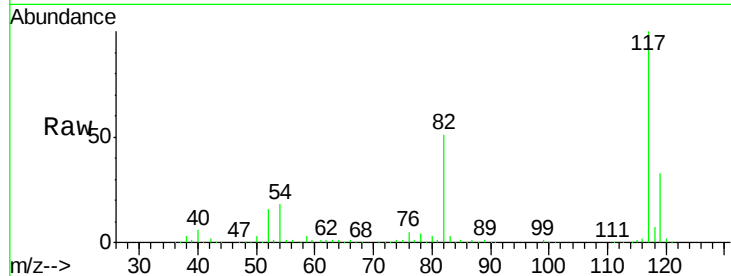




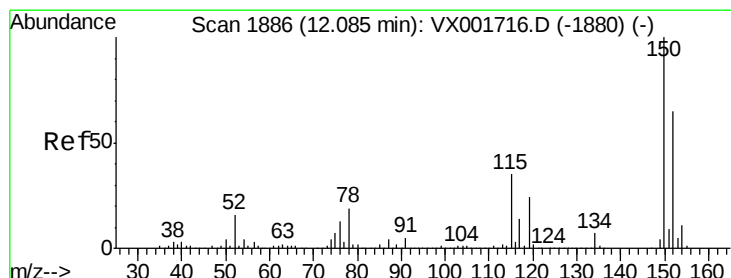
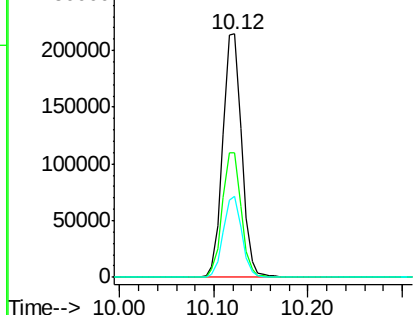
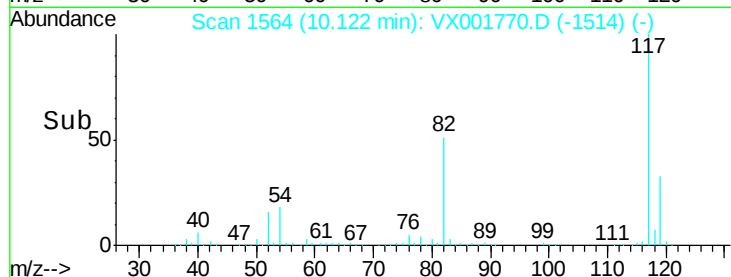
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.01 min  
Lab File: VX001770.D  
Acq: 16 May 2018 17:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3TB07-180507

Tgt Ion:117 Resp: 300601  
Ion Ratio Lower Upper  
117 100  
82 50.9 41.4 62.2  
119 33.3 25.6 38.4

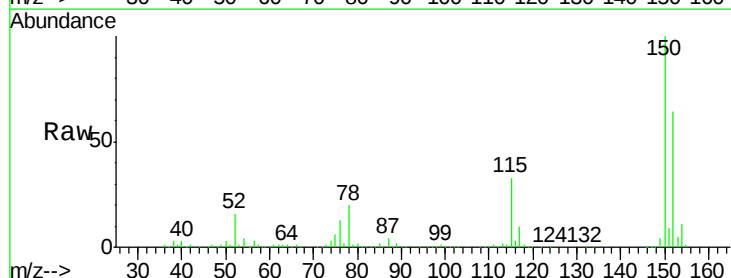


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

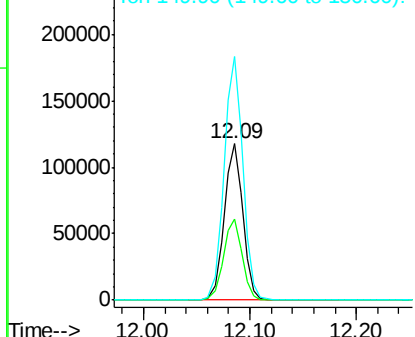
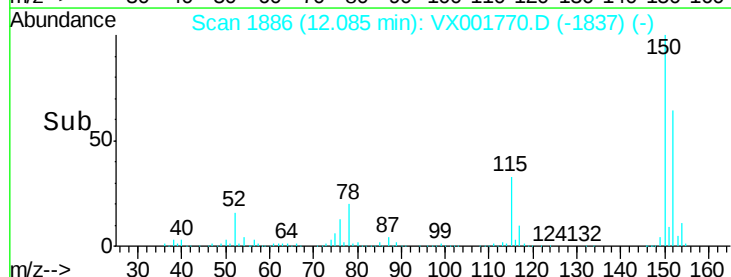


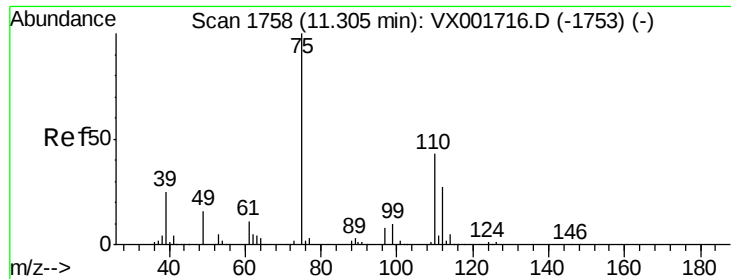
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX001770.D  
Acq: 16 May 2018 17:50

Tgt Ion:152 Resp: 143808  
Ion Ratio Lower Upper  
152 100  
115 52.0 37.4 112.2  
150 156.7 0.0 344.8



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

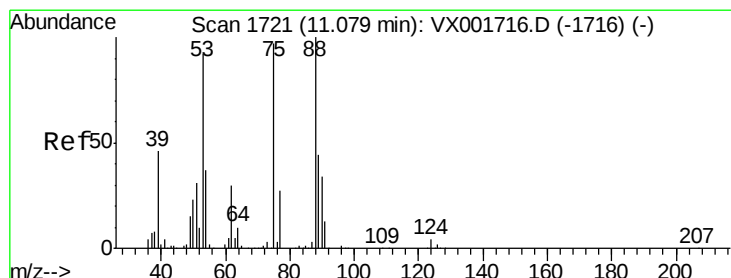
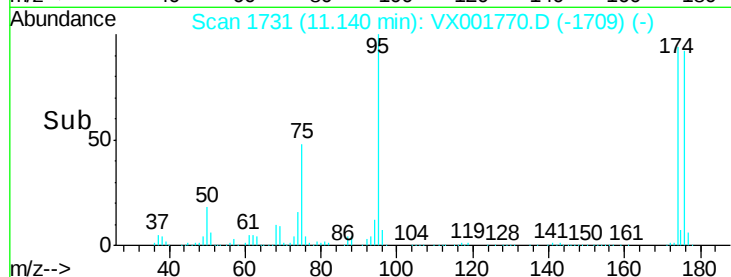
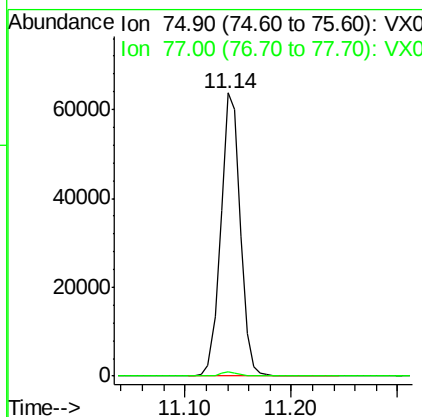
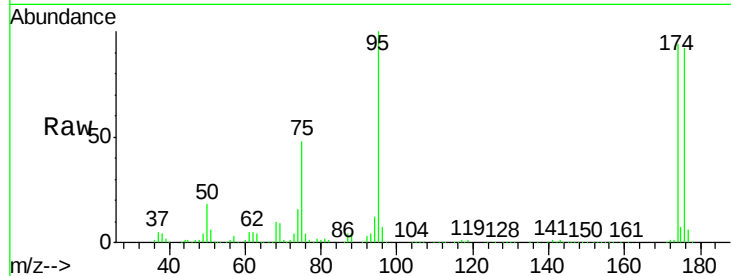




#76  
 1,2,3-Trichloropropane  
 Concen: 29.75 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX001770.D  
 Acq: 16 May 2018 17:50

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3TB07-180507

Tgt Ion: 75 Resp: 81358  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 18.9 56.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 86.11 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX001770.D  
 Acq: 16 May 2018 17:50

Tgt Ion: 75 Resp: 81358  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 79.4 119.2#  
 89 0.0 38.8 58.2#

