

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\  
 Data File : VX005574.D  
 Acq On : 25 Oct 2018 06:44  
 Operator : JC/MD  
 Sample : J5656-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WS-DRUM

Quant Time: Oct 25 08:06:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 24 13:13:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 201577   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 301315   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 274519   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 131668   | 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   | 129219   | 52.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.02% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 103226   | 50.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.18% |          |
| 50) Toluene-d8              | 8.71  | 98   | 366408   | 49.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.96%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 121889   | 44.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.06%  |          |

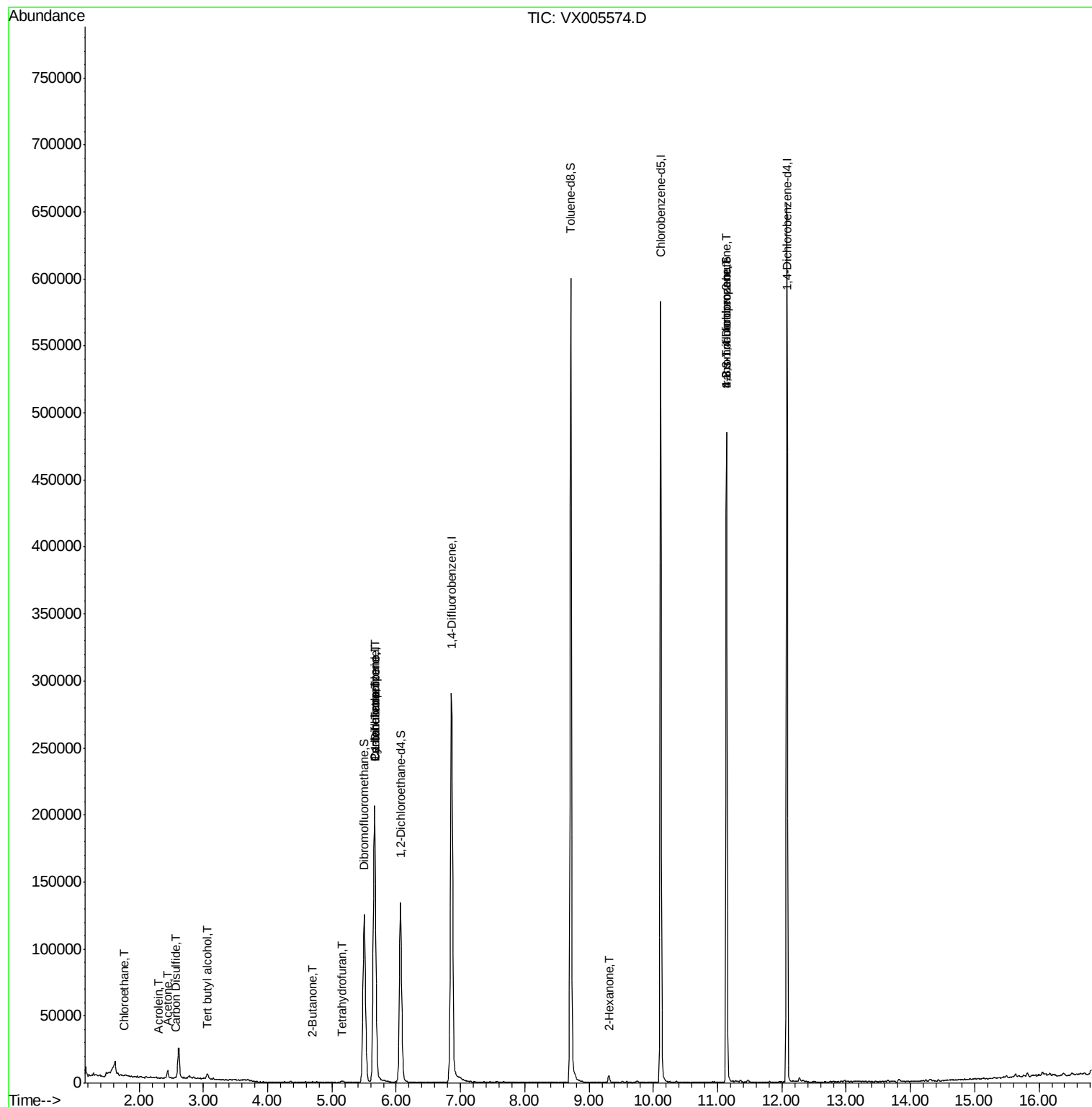
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.78  | 64   | 461      | 0.290     | ug/l # | 46     |
| 11) Tert butyl alcohol         | 3.06  | 59   | 4784     | 7.225     | ug/l # | 91     |
| 13) Acrolein                   | 2.29  | 56   | 102      | 0.302     | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43   | 6347     | 4.881     | ug/l   | 90     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1838     | 0.319     | ug/l # | 84     |
| 18) Methyl Acetate             | 2.78  | 43   | 2706     | Below Cal |        | 95     |
| 25) 2-Butanone                 | 4.70  | 43   | 999      | 0.505     | ug/l # | 73     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 1053     | 0.817     | ug/l # | 70     |
| 31) Cyclohexane                | 5.67  | 56   | 3975     | 1.198     | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14475    | 4.950     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 18993    | 6.167     | ug/l # | 16     |
| 59) 2-Hexanone                 | 9.30  | 43   | 3257     | 1.099     | ug/l   | 62     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 61597    | 22.968    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 61597    | 72.147    | ug/l # | 10     |

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

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Sample : J5656-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
WS-DRUM

Quant Time: Oct 25 08:06:21 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 24 13:13:34 2018  
Response via : Initial Calibration

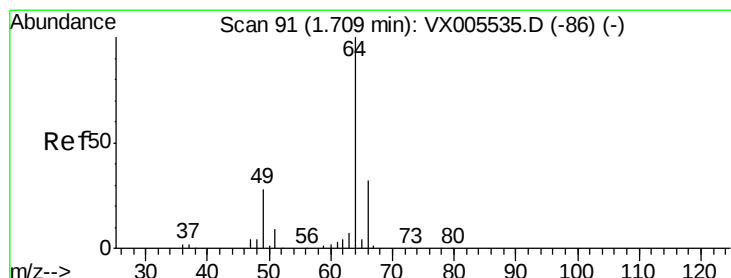
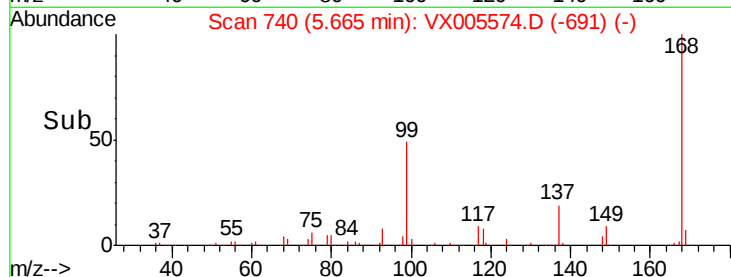
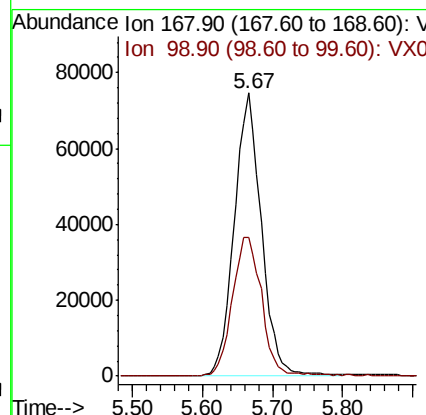
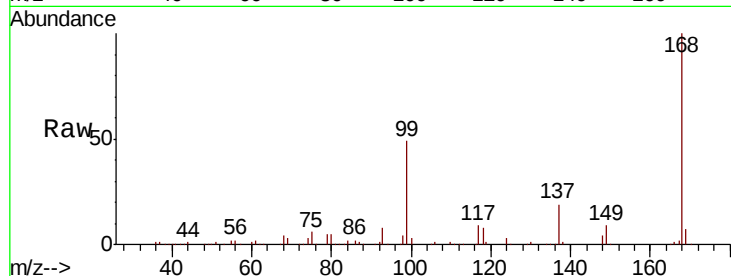




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. -0.00 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

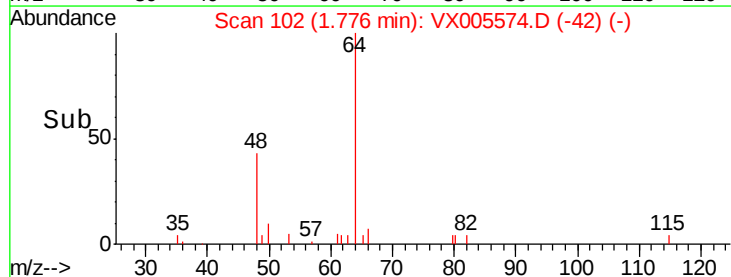
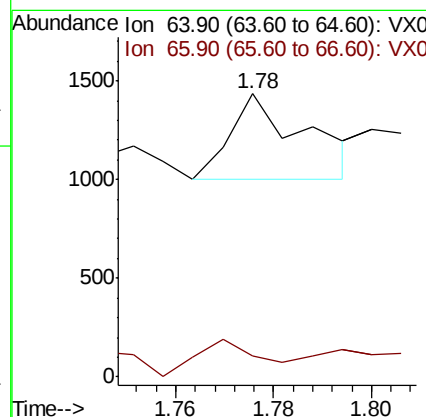
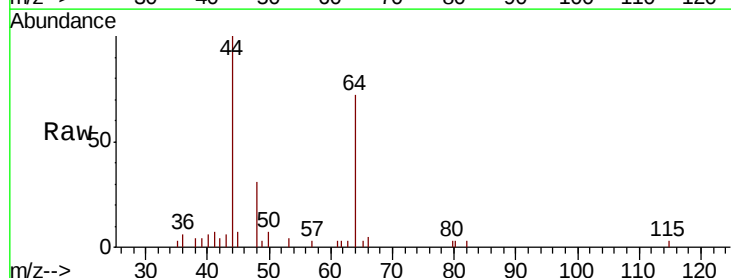
Instrument :  
MSVOA\_X  
ClientSampleId :  
WS-DRUM

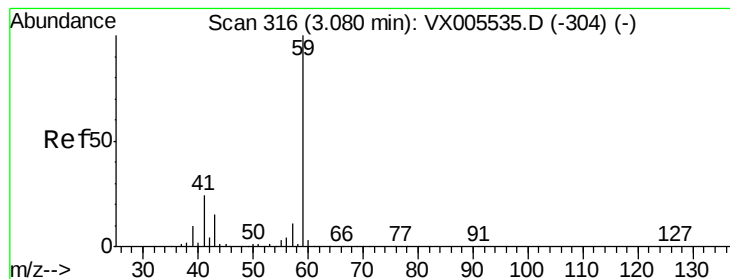
Tot Ion:168 Resp: 201577  
Ion Ratio Lower Upper  
168 100  
99 49.1 39.9 59.9



#6  
Chloroethane  
Concen: 0.290 ug/l  
RT: 1.78 min Scan# 102  
Delta R.T. 0.07 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

Tgt Ion: 64 Resp: 461  
Ion Ratio Lower Upper  
64 100  
66 0.9 24.6 36.8#





#11

Tert butyl alcohol

Concen: 7.225 ug/l

RT: 3.06 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX005574.D

Acq: 25 Oct 2018 06:44

Instrument :

MSVOA\_X

ClientSampleId :

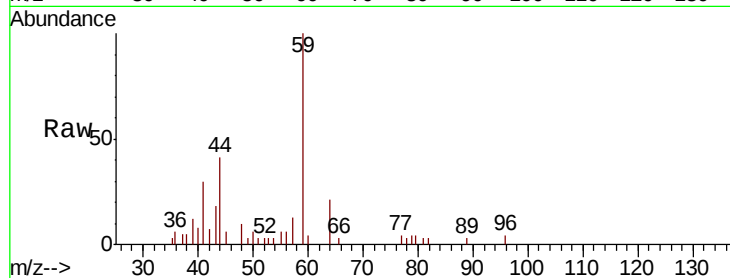
WS-DRUM

Tot Ion: 59 Resp: 4784

Ion Ratio Lower Upper

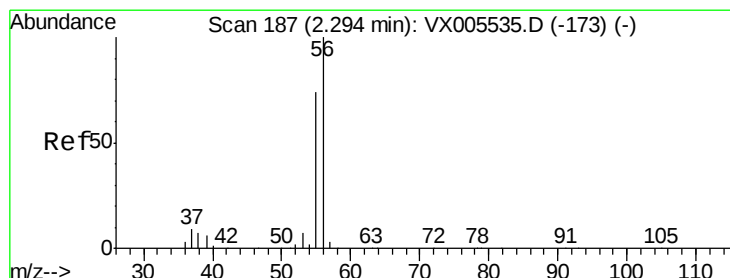
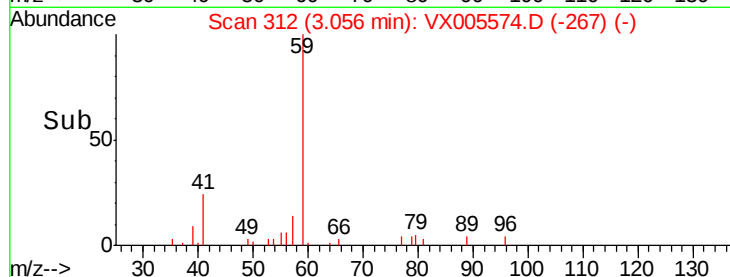
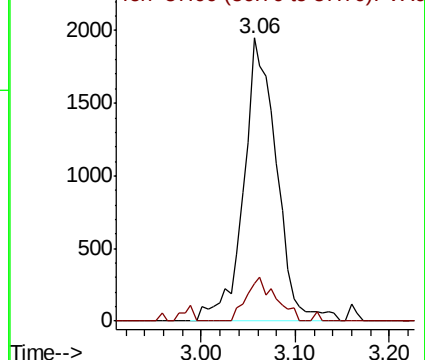
59 100

57 13.8 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.302 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX005574.D

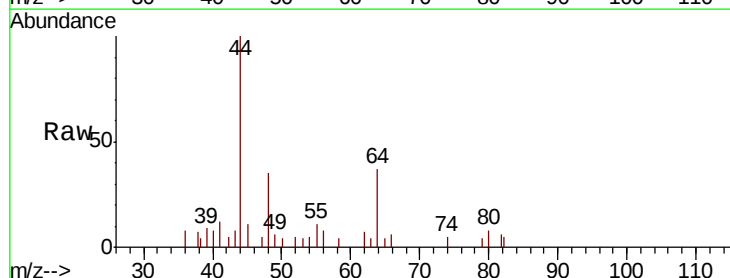
Acq: 25 Oct 2018 06:44

Tgt Ion: 56 Resp: 102

Ion Ratio Lower Upper

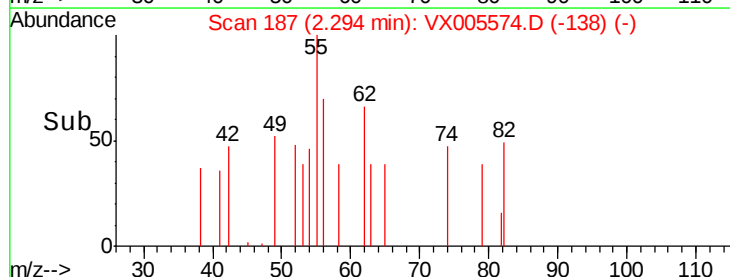
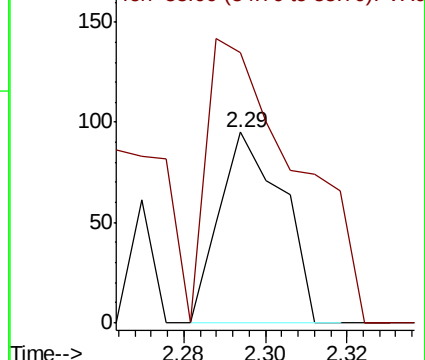
56 100

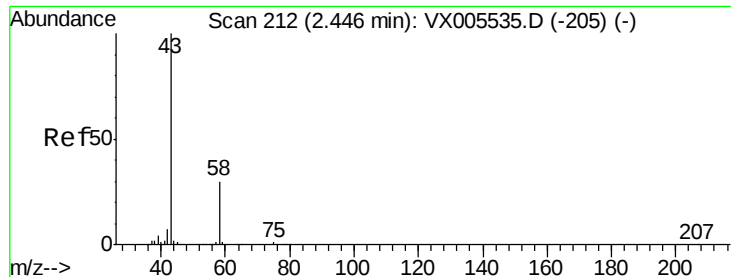
55 212.7 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.881 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005574.D

Acq: 25 Oct 2018 06:44

Instrument :

MSVOA\_X

ClientSampleId :

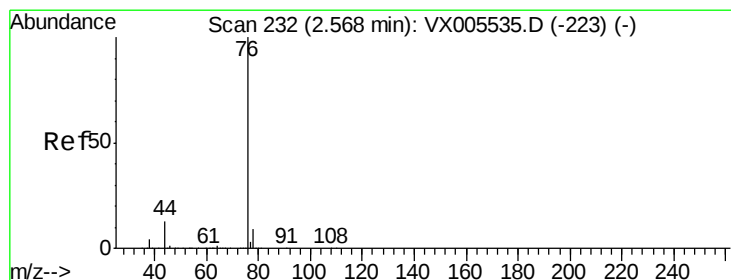
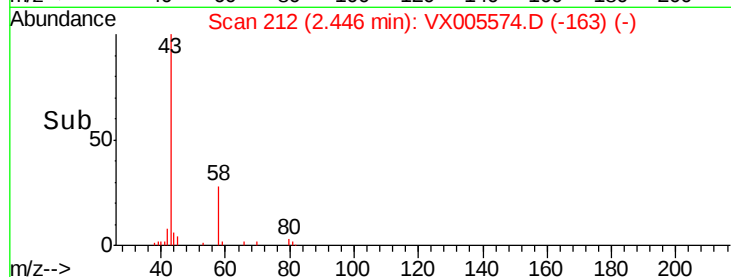
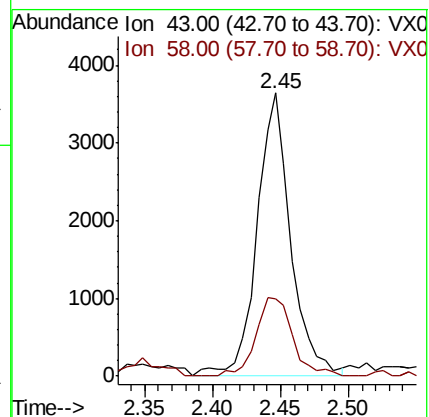
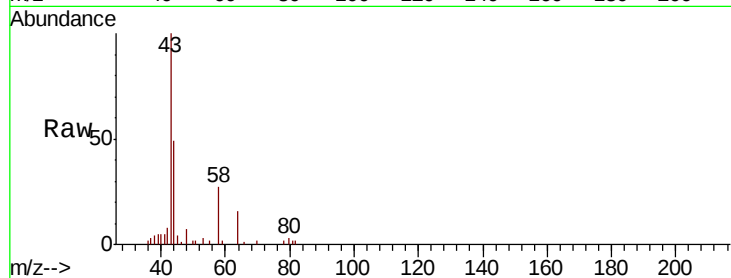
WS-DRUM

Tot Ion: 43 Resp: 6347

Ion Ratio Lower Upper

43 100

58 27.4 26.2 39.4



#17

Carbon Disulfide

Concen: 0.319 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005574.D

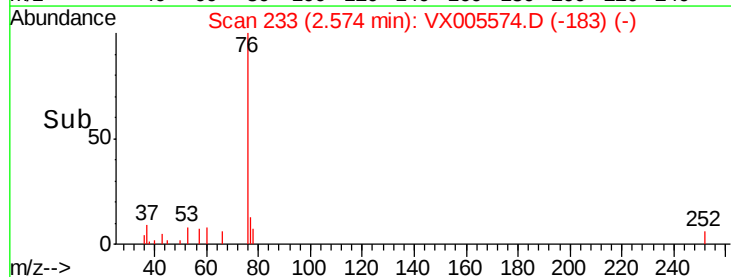
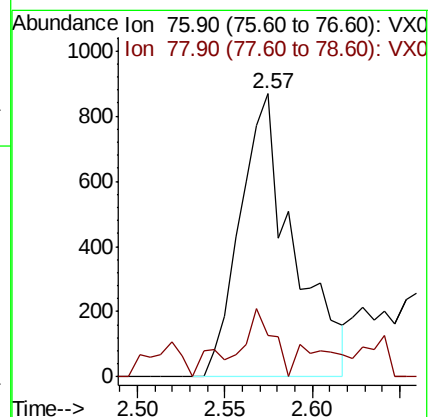
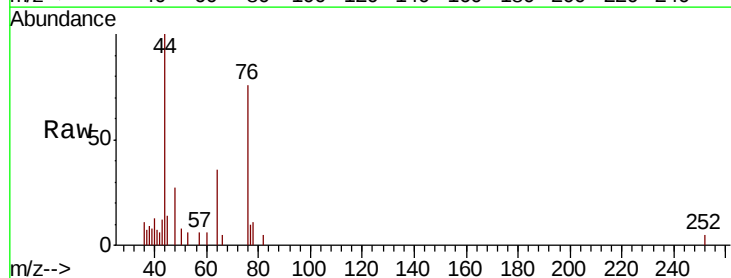
Acq: 25 Oct 2018 06:44

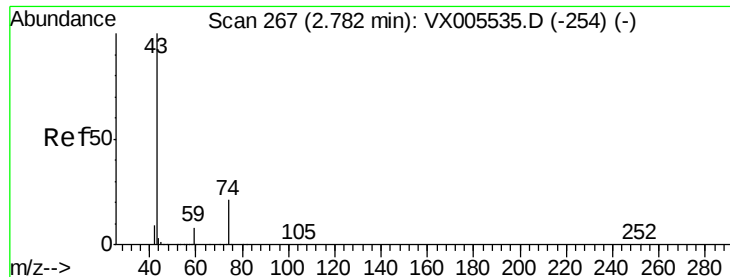
Tgt Ion: 76 Resp: 1838

Ion Ratio Lower Upper

76 100

78 14.6 7.0 10.6#

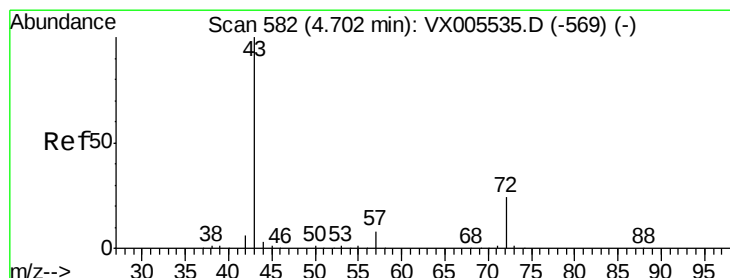
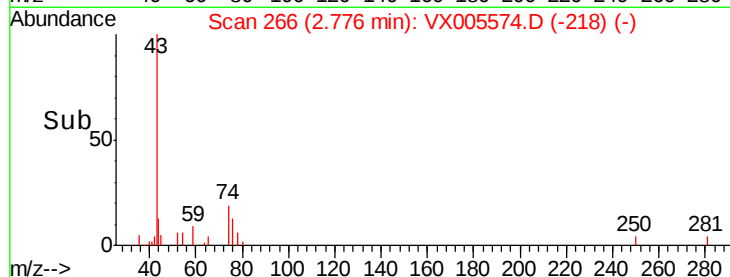
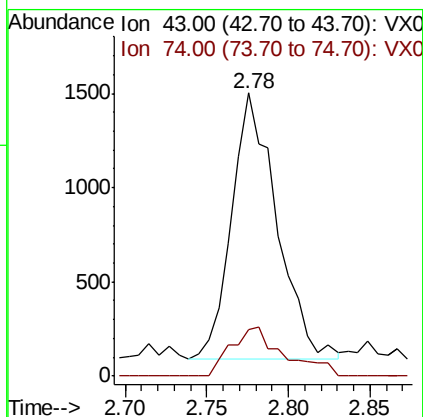
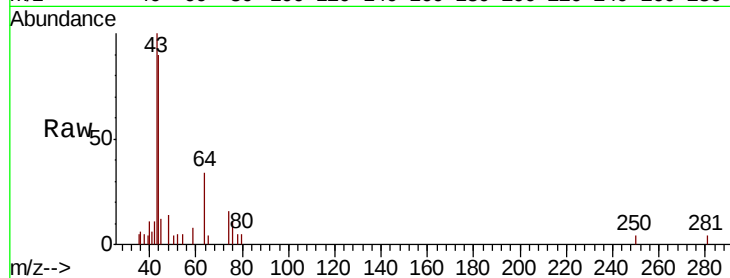




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 2.78 min Scan# 266  
Delta R.T. -0.01 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

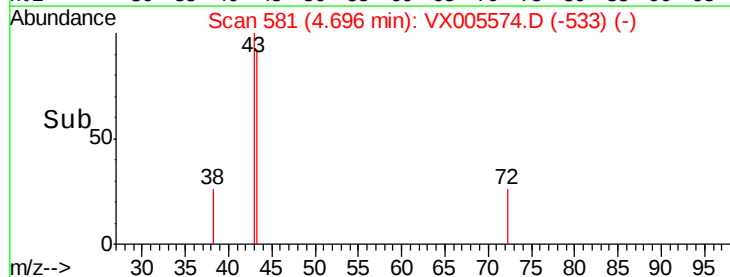
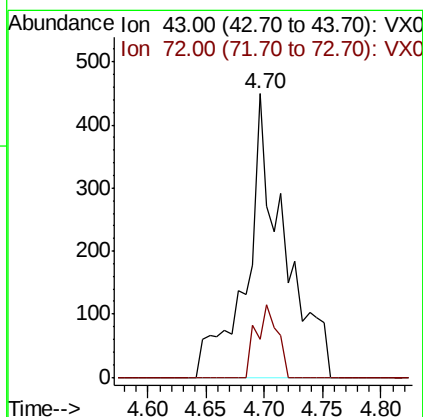
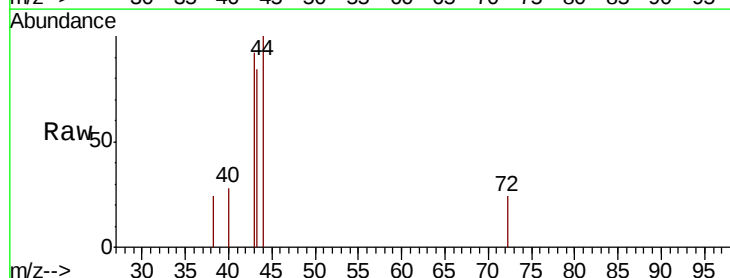
Instrument :  
MSVOA\_X  
ClientSampled :  
WS-DRUM

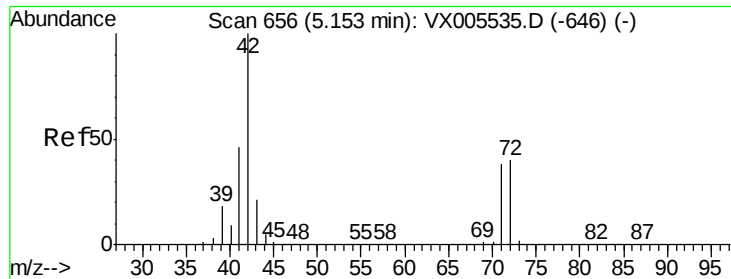
Tot Ion: 43 Resp: 2706  
Ion Ratio Lower Upper  
43 100  
74 21.7 19.4 29.2



#25  
2-Butanone  
Concen: 0.505 ug/l  
RT: 4.70 min Scan# 581  
Delta R.T. -0.01 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

Tgt Ion: 43 Resp: 999  
Ion Ratio Lower Upper  
43 100  
72 13.4 22.0 33.0#

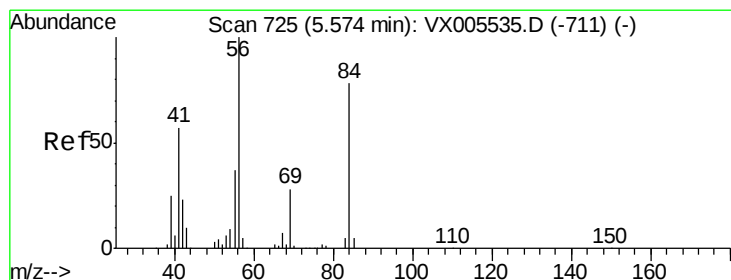
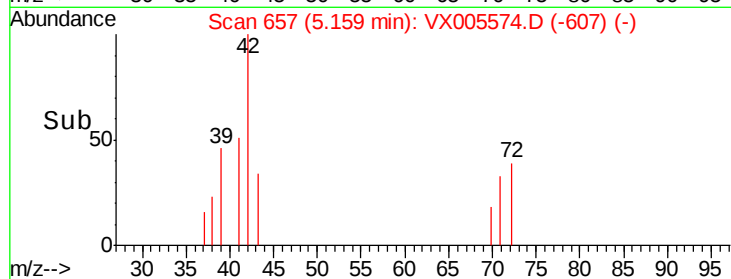
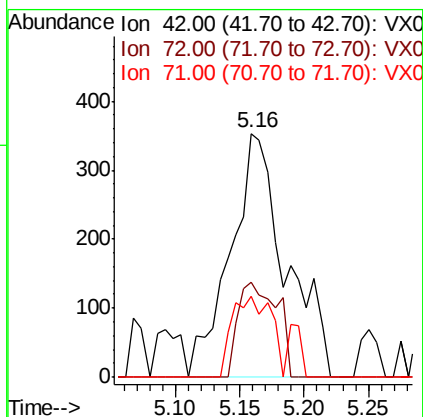
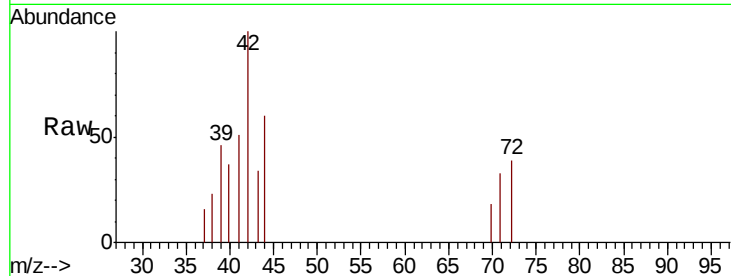




#29  
Tetrahydrofuran  
Concen: 0.817 ug/l  
RT: 5.16 min Scan# 657  
Delta R.T. 0.01 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

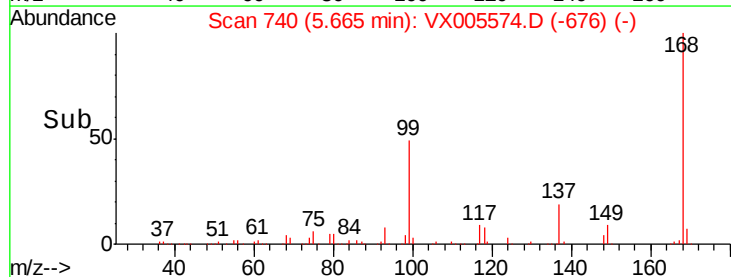
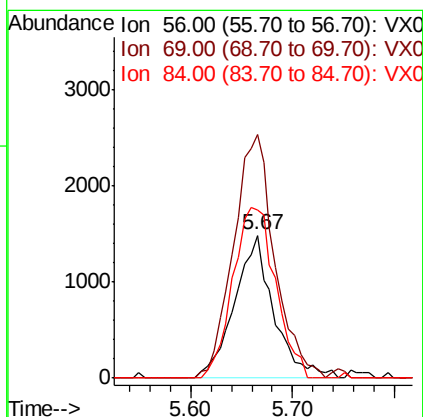
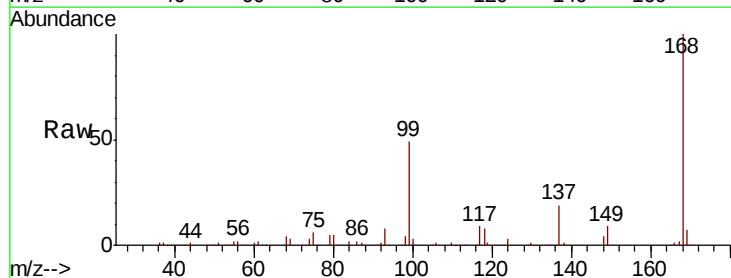
Instrument :  
MSVOA\_X  
ClientSampleId :  
WS-DRUM

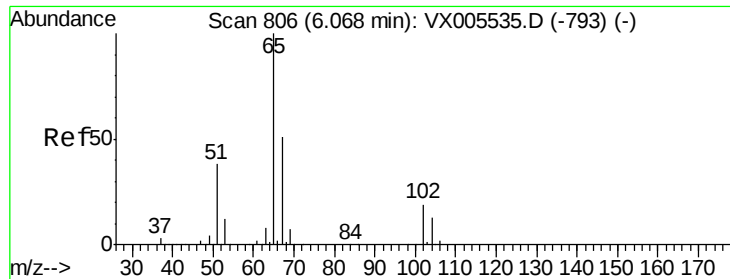
Tot Ion: 42 Resp: 1053  
Ion Ratio Lower Upper  
42 100  
72 27.5 37.4 56.0#  
71 23.3 34.5 51.7#



#31  
Cyclohexane  
Concen: 1.198 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

Tgt Ion: 56 Resp: 3975  
Ion Ratio Lower Upper  
56 100  
69 170.5 25.4 38.2#  
84 117.3 71.4 107.2#

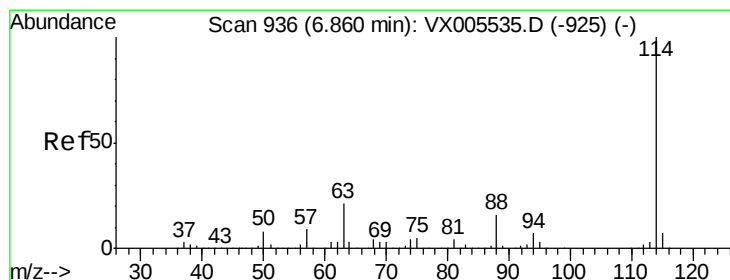
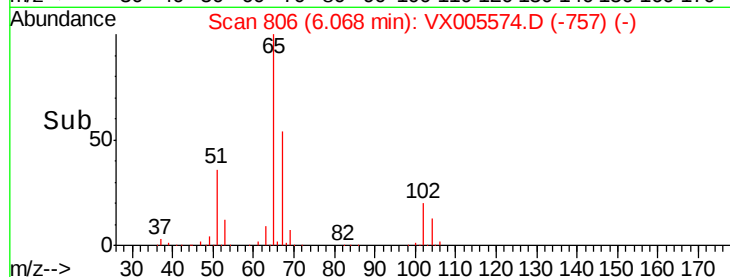
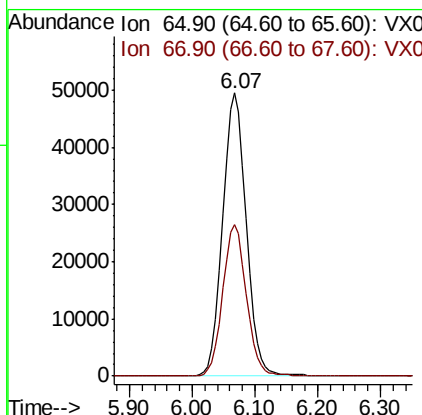
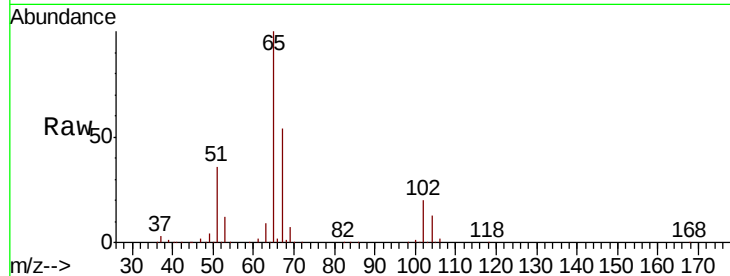




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.515 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX005574.D  
 Acq: 25 Oct 2018 06:44

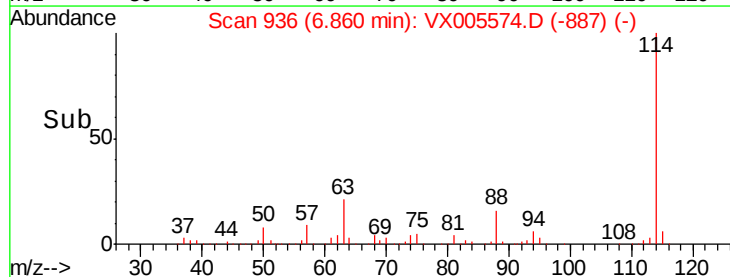
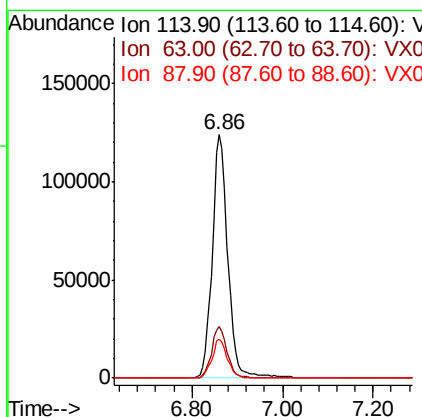
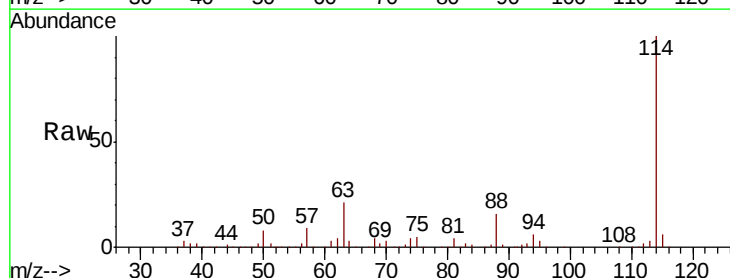
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 WS-DRUM

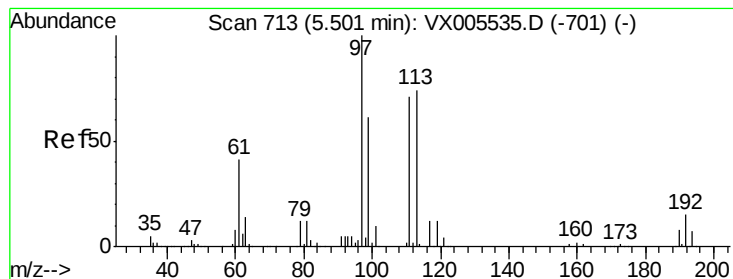
Tot Ion: 65 Resp: 129219  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX005574.D  
 Acq: 25 Oct 2018 06:44

Tgt Ion: 114 Resp: 301315  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 0.0 39.0  
 88 15.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.595 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005574.D

Acq: 25 Oct 2018 06:44

Instrument :

MSVOA\_X

ClientSampleId :

WS-DRUM

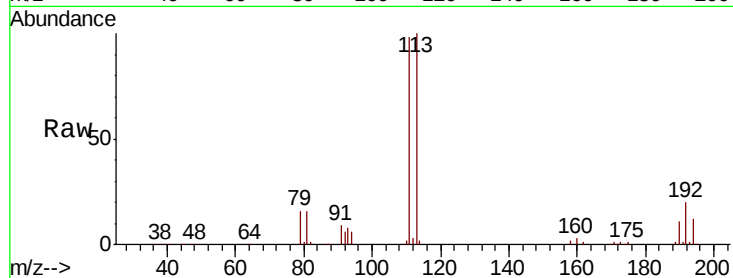
Tot Ion:113 Resp: 103226

Ion Ratio Lower Upper

113 100

111 103.9 82.4 123.6

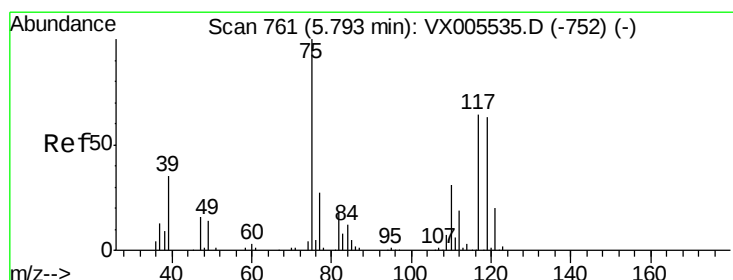
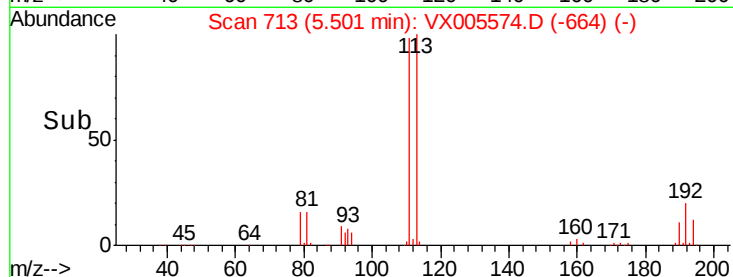
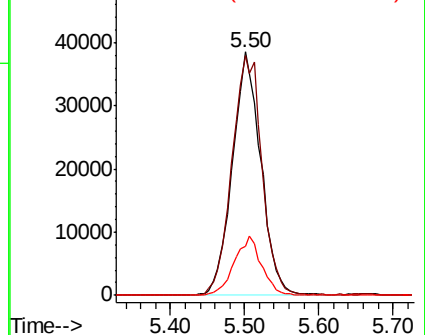
192 23.2 19.4 29.2



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: 4.950 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX005574.D

Acq: 25 Oct 2018 06:44

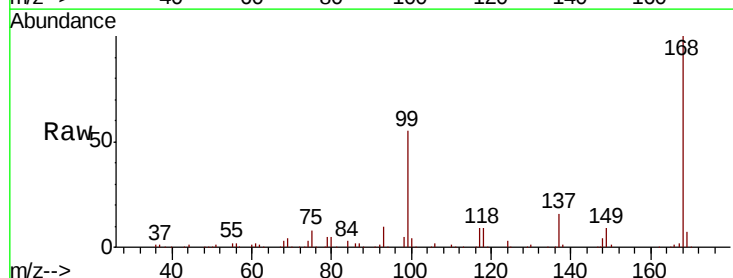
Tgt Ion: 75 Resp: 14475

Ion Ratio Lower Upper

75 100

110 10.1 18.0 54.0#

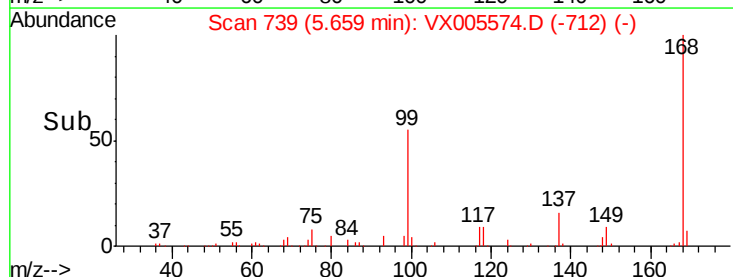
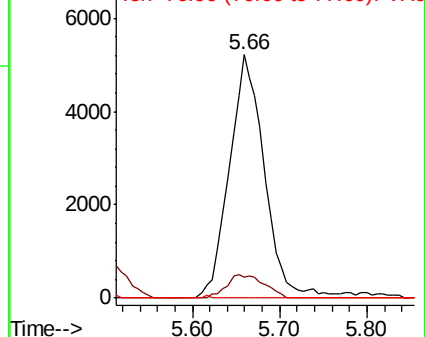
77 0.0 24.6 36.8#

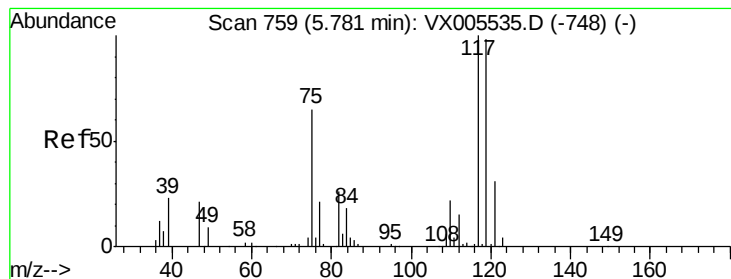


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.167 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005574.D

Acq: 25 Oct 2018 06:44

Instrument :

MSVOA\_X

ClientSampleId :

WS-DRUM

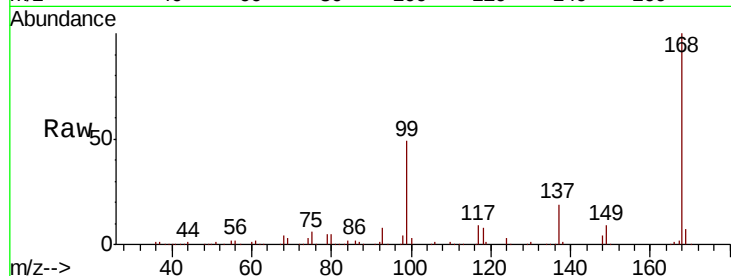
Tot Ion:117 Resp: 18993

Ion Ratio Lower Upper

117 100

119 7.1 78.8 118.2#

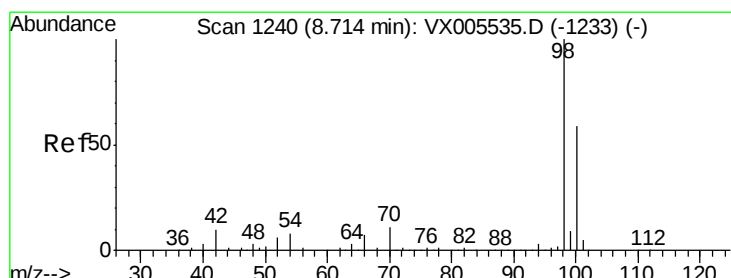
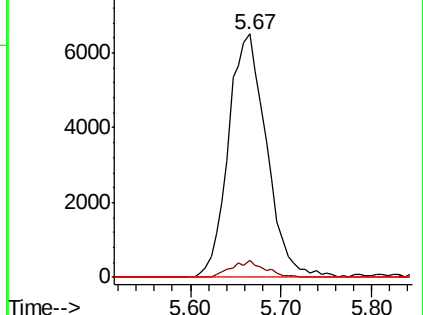
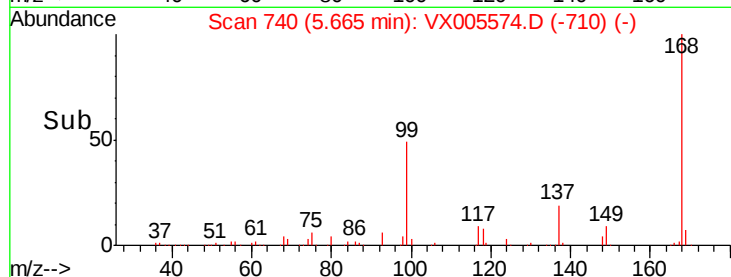
121 0.0 24.9 37.3#



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: 49.980 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005574.D

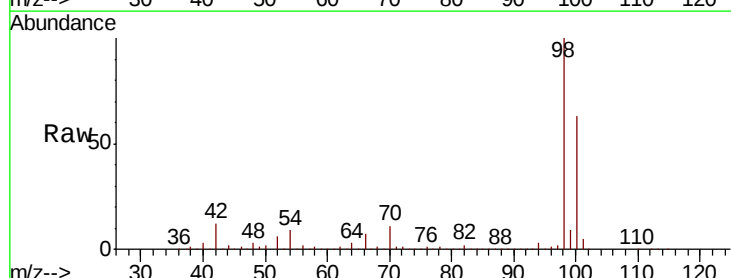
Acq: 25 Oct 2018 06:44

Tgt Ion: 98 Resp: 366408

Ion Ratio Lower Upper

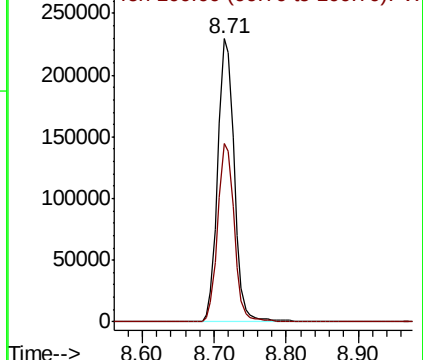
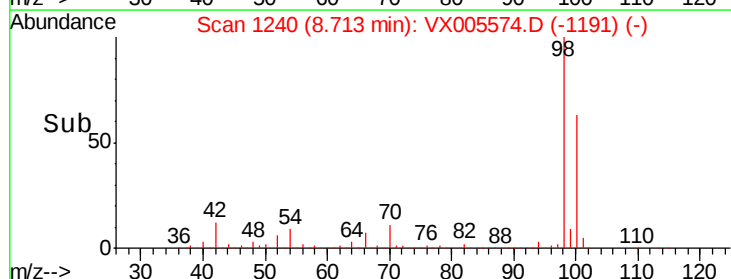
98 100

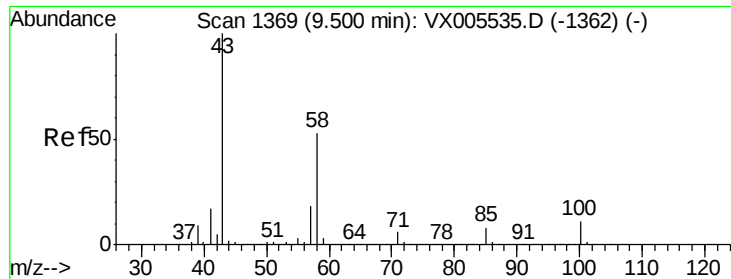
100 62.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

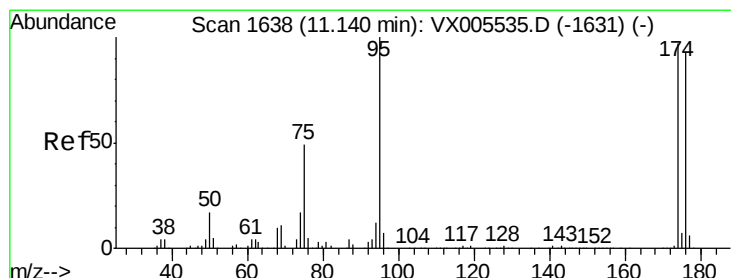
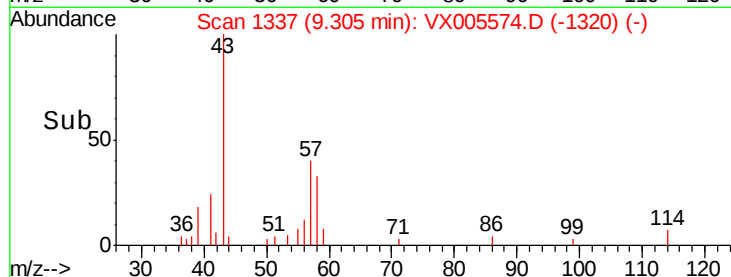
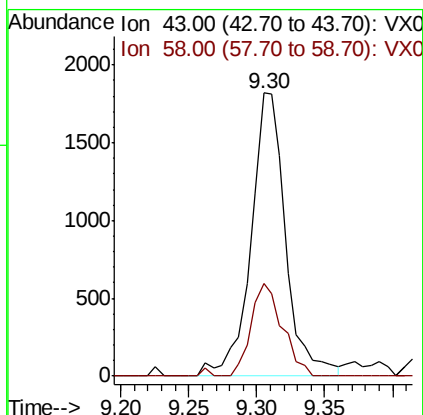
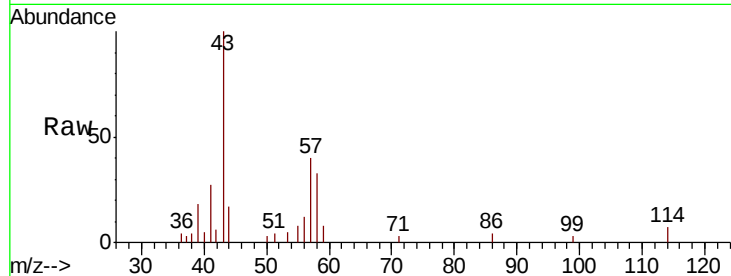




#59  
2-Hexanone  
Concen: 1.099 ug/l  
RT: 9.30 min Scan# 1337  
Delta R.T. -0.20 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

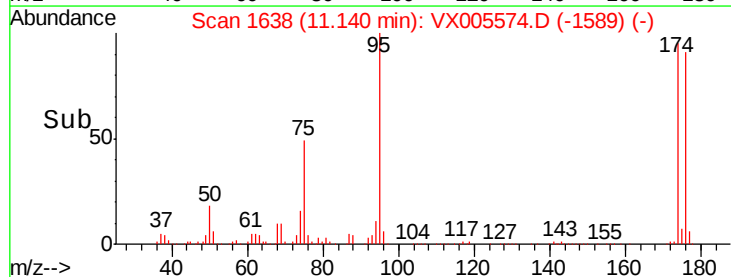
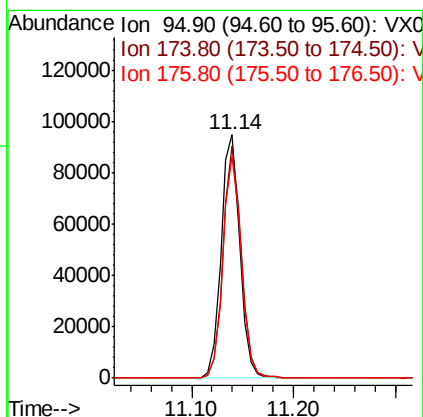
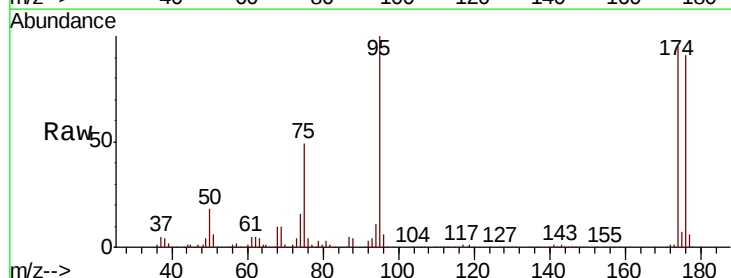
Instrument :  
MSVOA\_X  
ClientSampleId :  
WS-DRUM

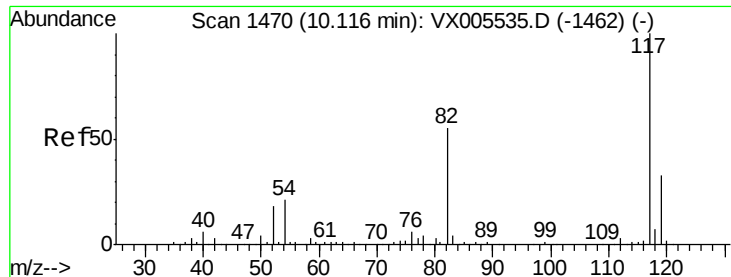
Tot Ion: 43 Resp: 3257  
Ion Ratio Lower Upper  
43 100  
58 29.6 29.0 87.0



#62  
4-Bromofluorobenzene  
Concen: 44.026 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

Tgt Ion: 95 Resp: 121889  
Ion Ratio Lower Upper  
95 100  
174 92.6 0.0 185.2  
176 89.4 0.0 178.6

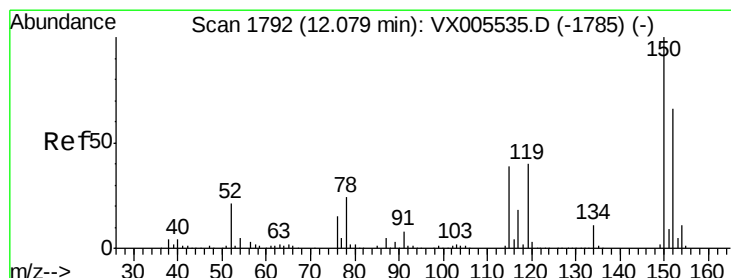
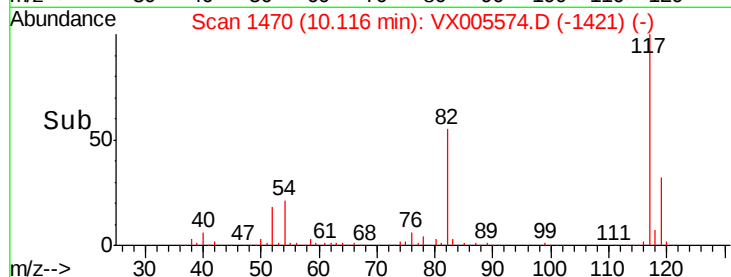
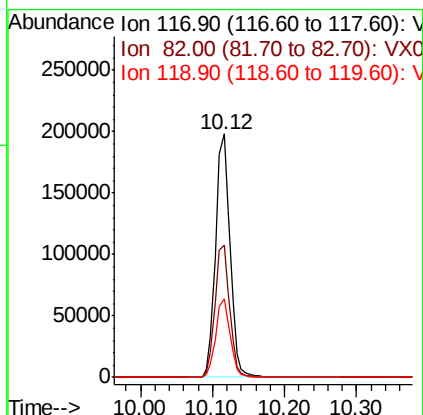
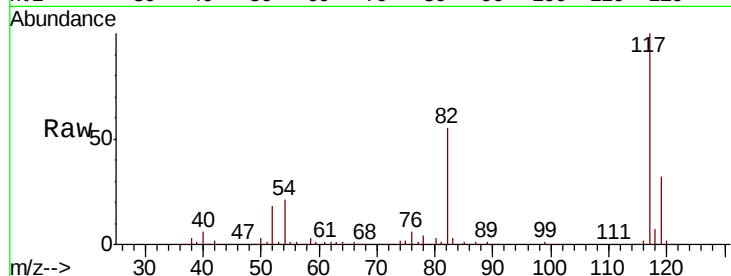




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

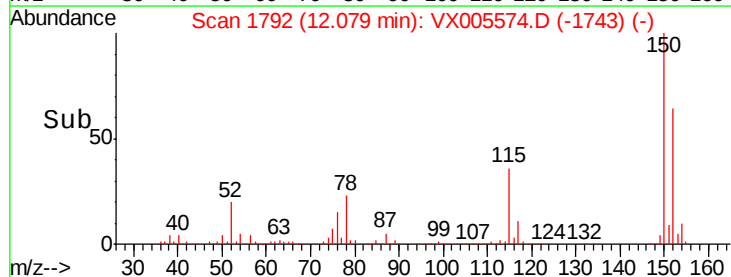
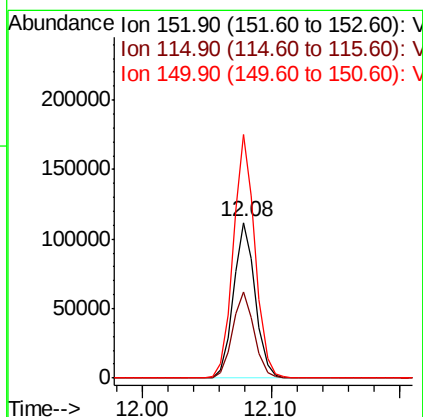
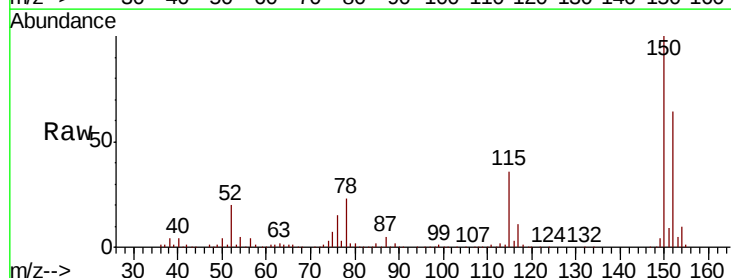
Instrument :  
MSVOA\_X  
ClientSampled :  
WS-DRUM

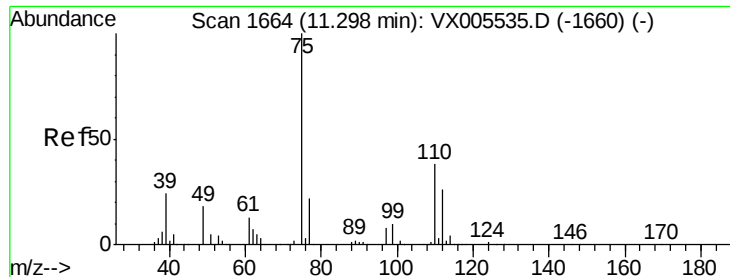
Tot Ion:117 Resp: 274519  
Ion Ratio Lower Upper  
117 100  
82 54.5 47.8 71.6  
119 32.2 29.3 43.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005574.D  
Acq: 25 Oct 2018 06:44

Tgt Ion:152 Resp: 131668  
Ion Ratio Lower Upper  
152 100  
115 55.5 39.0 117.0  
150 155.8 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.968 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005574.D

Acq: 25 Oct 2018 06:44

Instrument :

MSVOA\_X

ClientSampled :

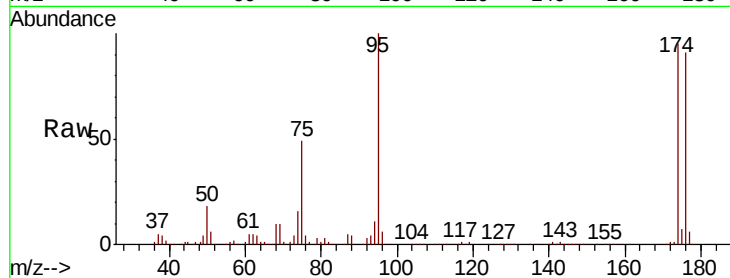
WS-DRUM

Tot Ion: 75 Resp: 61597

Ion Ratio Lower Upper

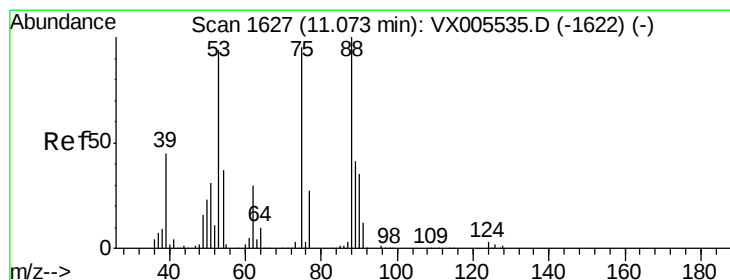
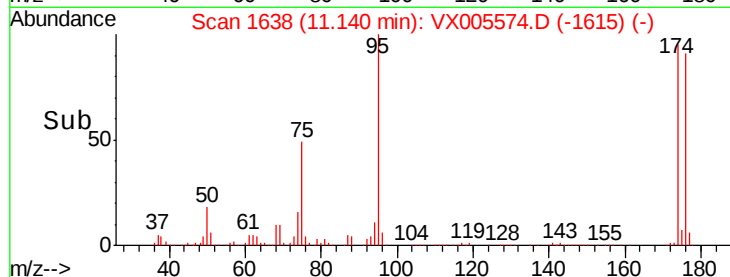
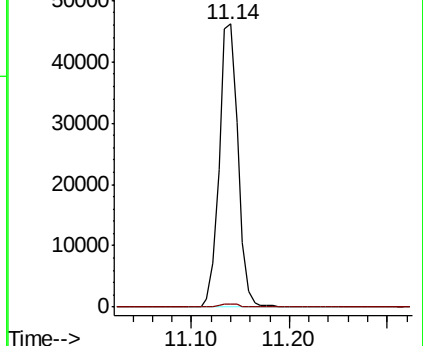
75 100

77 1.3 20.2 60.6#



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: 72.147 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005574.D

Acq: 25 Oct 2018 06:44

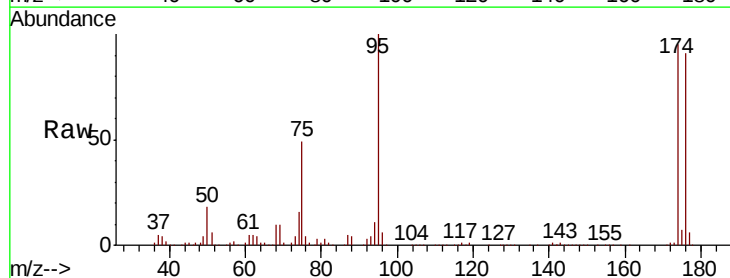
Tgt Ion: 75 Resp: 61597

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

