

Data File : VU027551.D  
Acq On : 10 Oct 2018 02:58  
Operator : MD/SY  
Sample : J5329-08  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
POND-2

Quant Time: Oct 10 06:04:31 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 02:04:34 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 143202   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 236868   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 206123   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 84744    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 107712   | 45.04 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.08% |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 78973    | 48.65 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.30% |      |
| 50) Toluene-d8            | 7.57   | 98  | 294218   | 48.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.86% |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 94210    | 41.72 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 83.44% |      |

Target Compounds

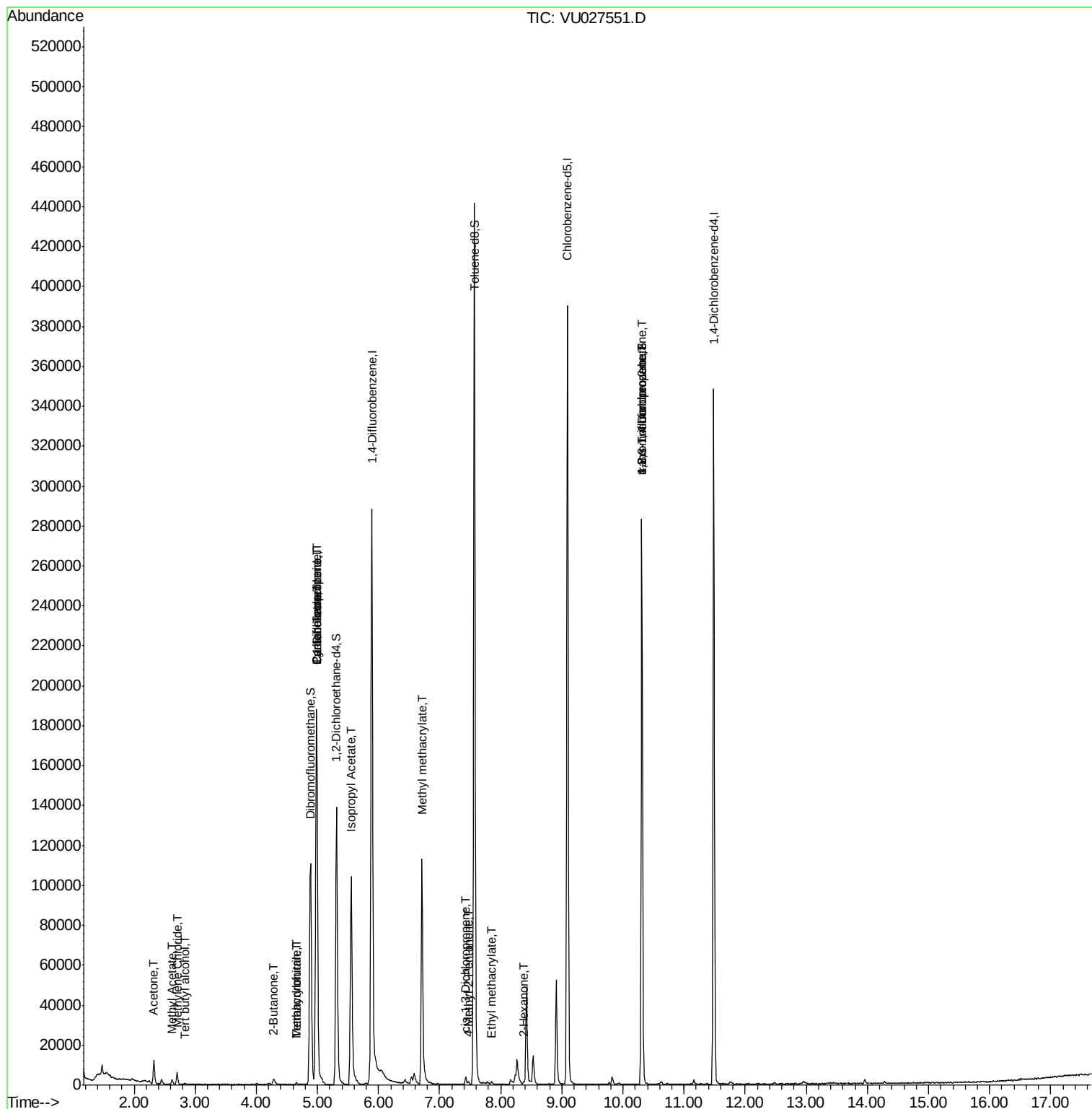
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 11) Tert butyl alcohol         | 2.83  | 59  | 846    | 1.680  | ug/l # | 72     |
| 16) Acetone                    | 2.32  | 43  | 12658  | 8.961  | ug/l   | 95     |
| 18) Methyl Acetate             | 2.62  | 43  | 3140   | 0.974  | ug/l # | 91     |
| 20) Methylene Chloride         | 2.70  | 84  | 2645   | 1.344  | ug/l   | 95     |
| 25) 2-Butanone                 | 4.29  | 43  | 6053   | 3.142  | ug/l   | 95     |
| 29) Tetrahydrofuran            | 4.66  | 42  | 730    | 0.601  | ug/l # | 70     |
| 31) Cyclohexane                | 4.98  | 56  | 3165   | 0.590  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75  | 12824  | 4.986  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117 | 13926  | 5.994  | ug/l # | 17     |
| 41) Methacrylonitrile          | 4.66  | 41  | 418    | 0.222  | ug/l # | 30     |
| 43) Isopropyl Acetate          | 5.55  | 43  | 128088 | 24.812 | ug/l   | 100    |
| 48) Methyl methacrylate        | 6.71  | 41  | 10542  | 4.106  | ug/l # | 46     |
| 51) 4-Methyl-2-Pentanone       | 7.47  | 43  | 1107   | 0.330  | ug/l # | 73     |
| 54) cis-1,3-Dichloropropene    | 7.42  | 75  | 733    | 0.230  | ug/l # | 63     |
| 56) Ethyl methacrylate         | 7.83  | 69  | 72     | 2.292  | ug/l # | 1      |
| 59) 2-Hexanone                 | 8.38  | 43  | 907    | 0.349  | ug/l   | 76     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 48479  | 22.068 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 48479  | 57.755 | ug/l # | 100    |

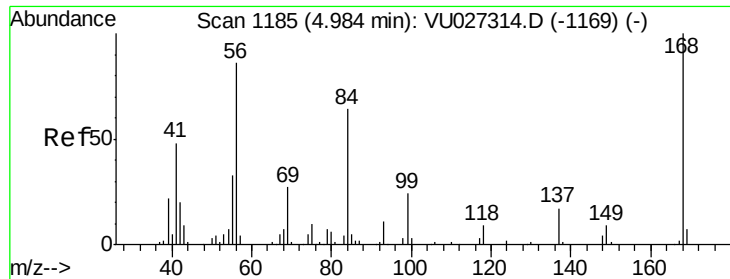
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

Instrument :

MSVOA\_U

ClientSampleId :

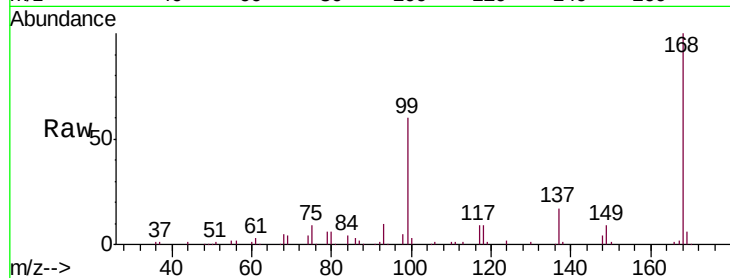
POND-2

Tgt Ion:168 Resp: 143202

Ion Ratio Lower Upper

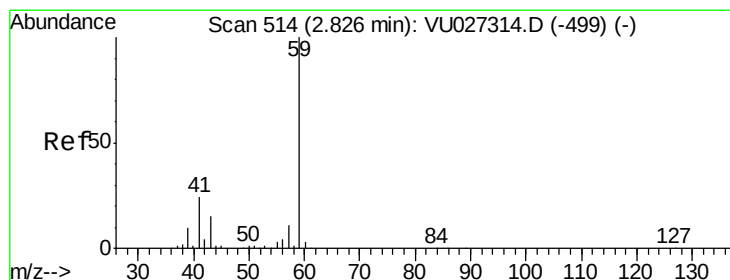
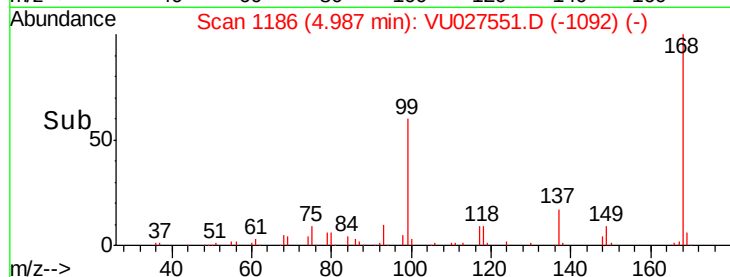
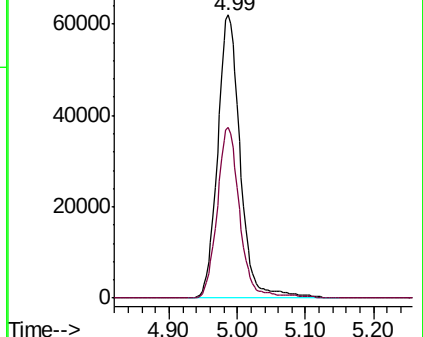
168 100

99 60.3 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)



#11

Tert butyl alcohol

Concen: 1.680 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU027551.D

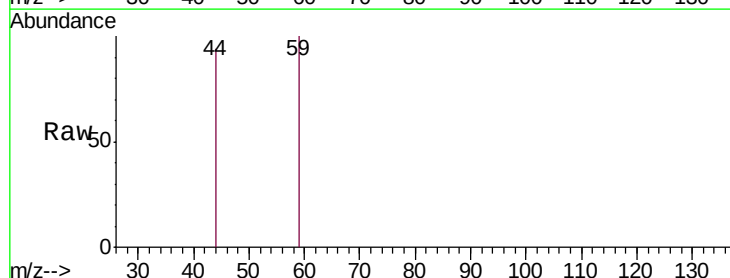
Acq: 10 Oct 2018 02:58

Tgt Ion: 59 Resp: 846

Ion Ratio Lower Upper

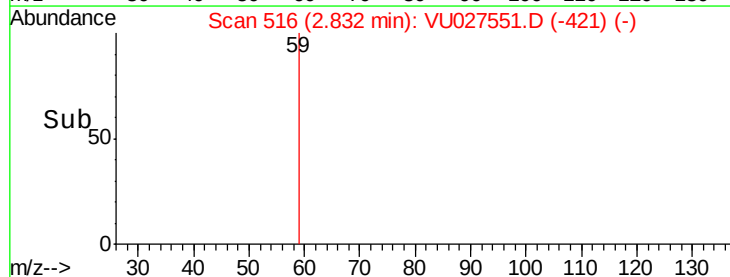
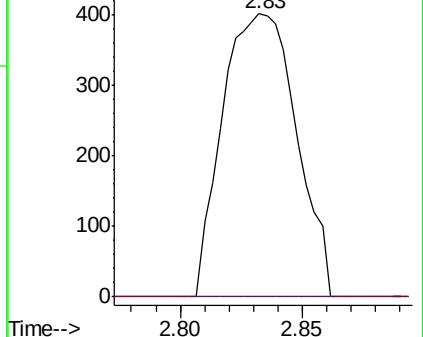
59 100

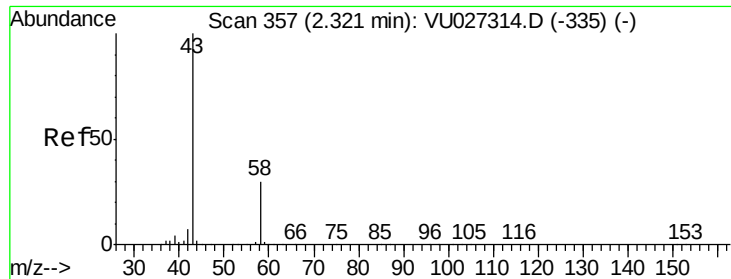
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VU027314.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027314.D (-499) (-)





#16

Acetone

Concen: 8.961 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

Instrument :

MSVOA\_U

ClientSampleId :

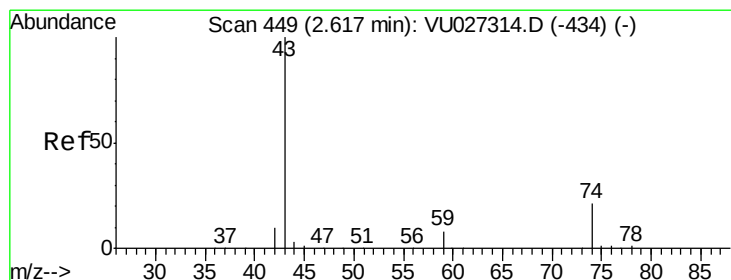
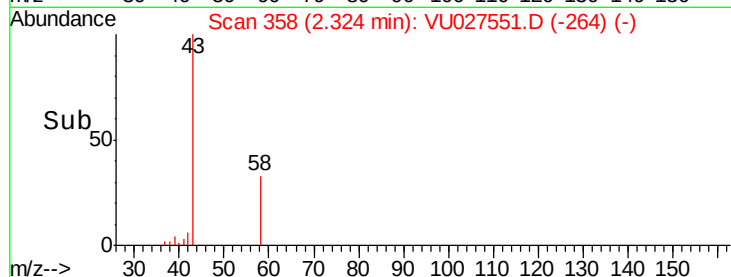
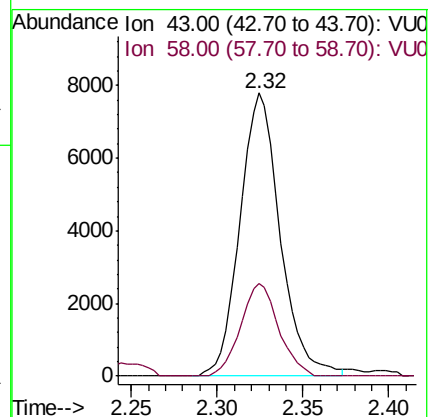
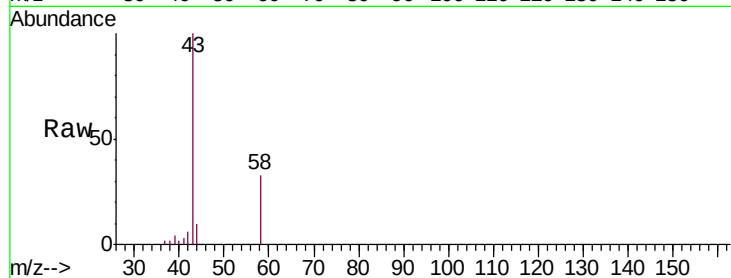
POND-2

Tgt Ion: 43 Resp: 12658

Ion Ratio Lower Upper

43 100

58 32.9 24.2 36.4



#18

Methyl Acetate

Concen: 0.974 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU027551.D

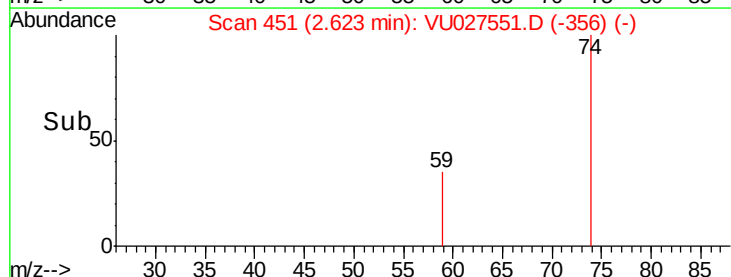
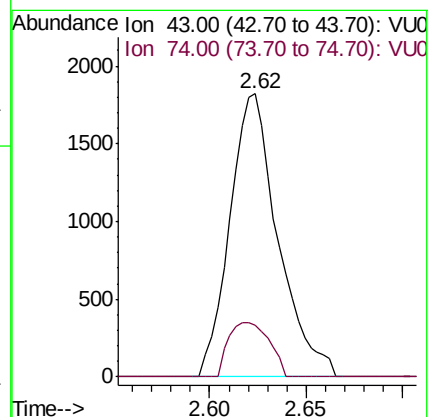
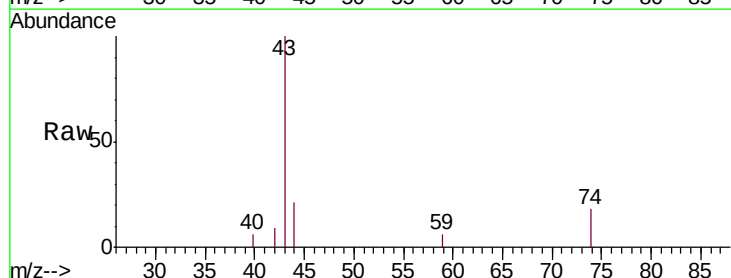
Acq: 10 Oct 2018 02:58

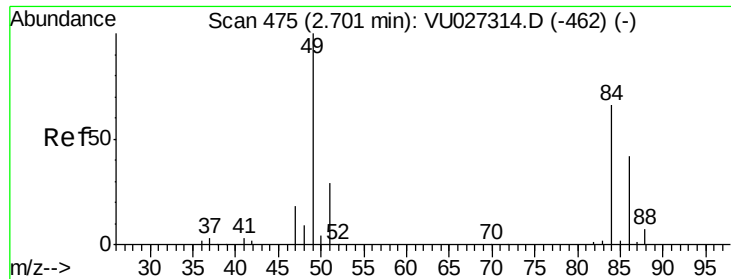
Tgt Ion: 43 Resp: 3140

Ion Ratio Lower Upper

43 100

74 16.4 16.5 24.7#

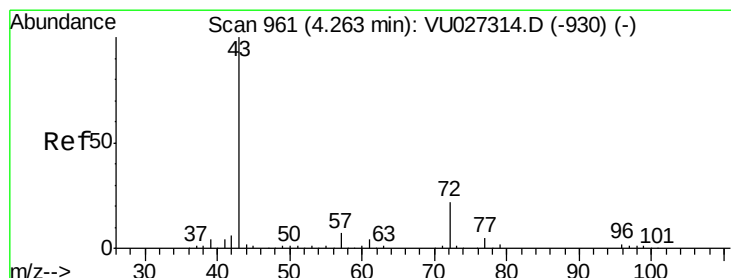
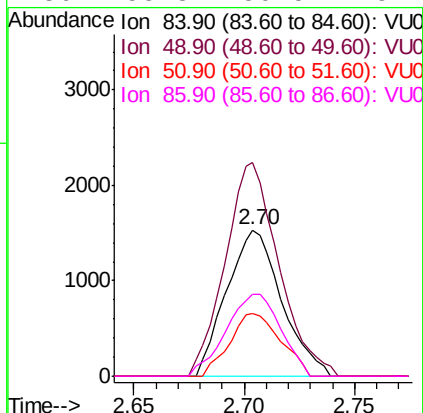
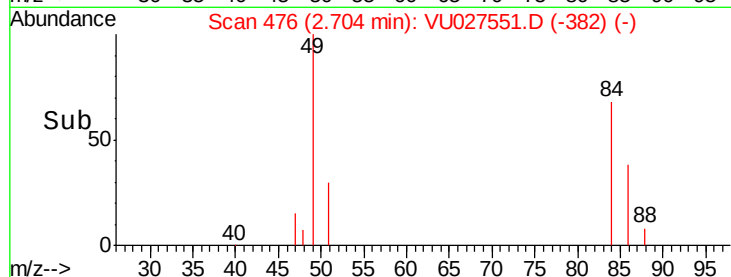
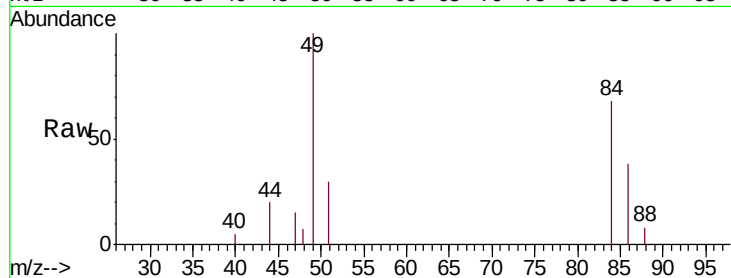




#20  
Methylene Chloride  
Concen: 1.344 ug/l  
RT: 2.70 min Scan# 476  
Delta R.T. 0.00 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

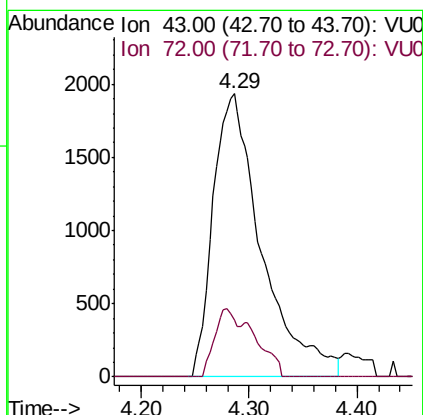
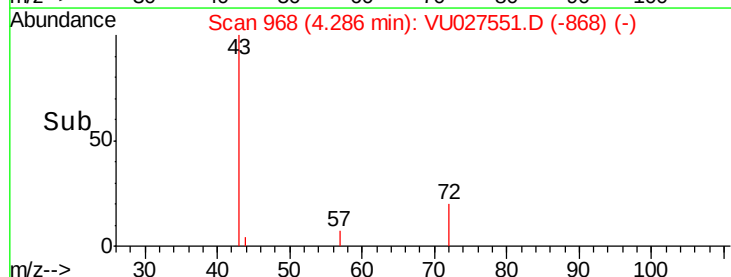
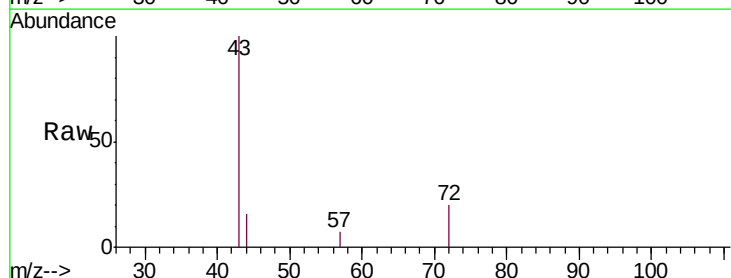
Instrument :  
MSVOA\_U  
ClientSampleId :  
POND-2

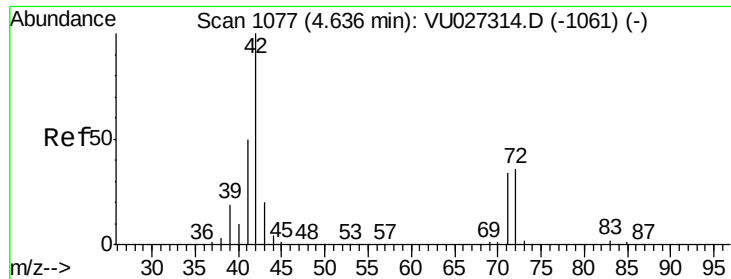
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2645  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 146.0 | 120.5 | 180.7 |
| 51       | 43.3  | 35.1  | 52.7  |
| 86       | 55.8  | 50.5  | 75.7  |



#25  
2-Butanone  
Concen: 3.142 ug/l  
RT: 4.29 min Scan# 968  
Delta R.T. 0.02 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 6053  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 19.9  | 17.8  | 26.6  |





#29

Tetrahydrofuran

Concen: 0.601 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

Instrument :

MSVOA\_U

ClientSampleId :

POND-2

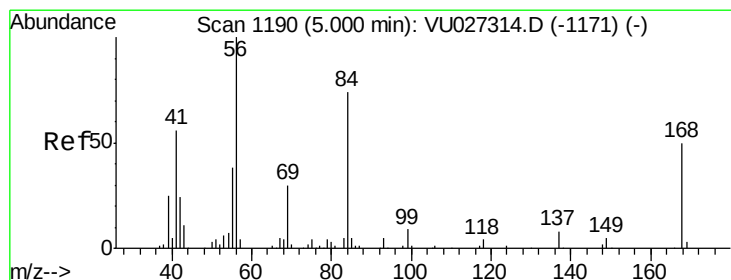
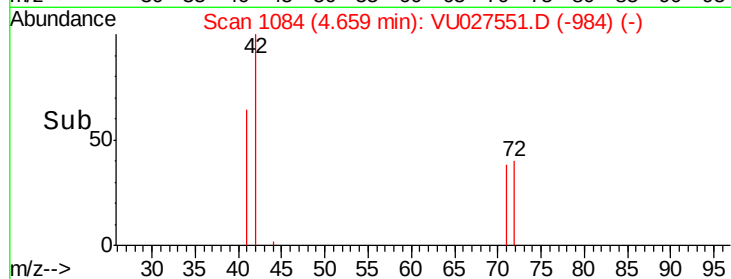
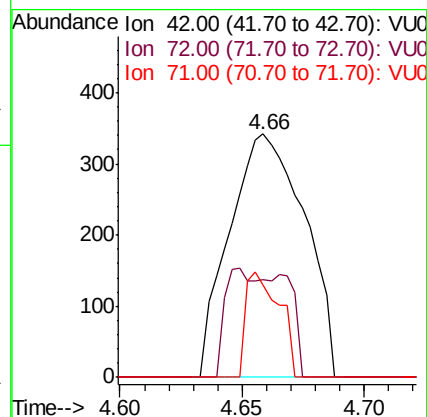
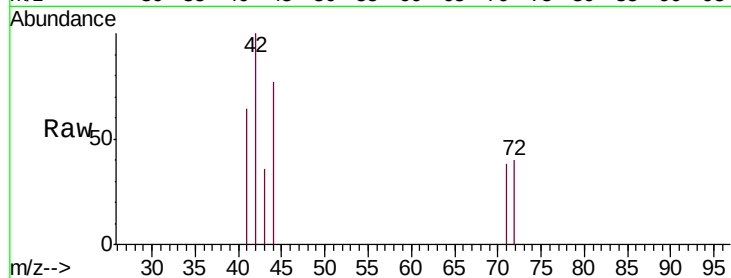
Tgt Ion: 42 Resp: 730

Ion Ratio Lower Upper

42 100

72 18.2 30.1 45.1#

71 19.2 27.7 41.5#



#31

Cyclohexane

Concen: 0.590 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

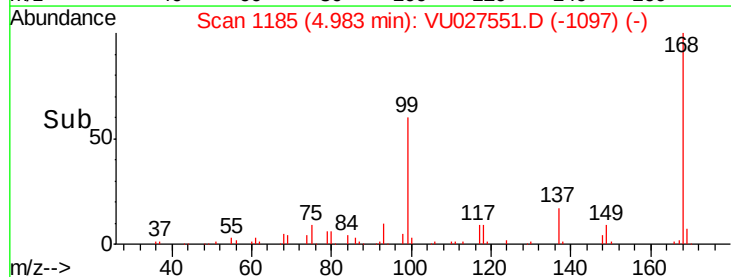
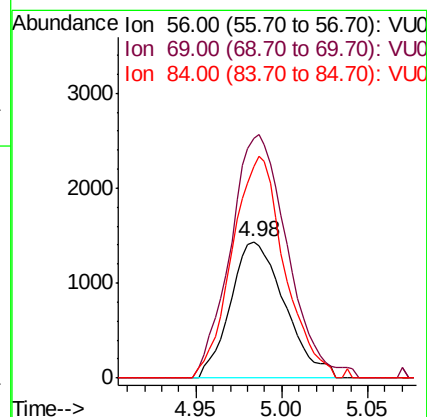
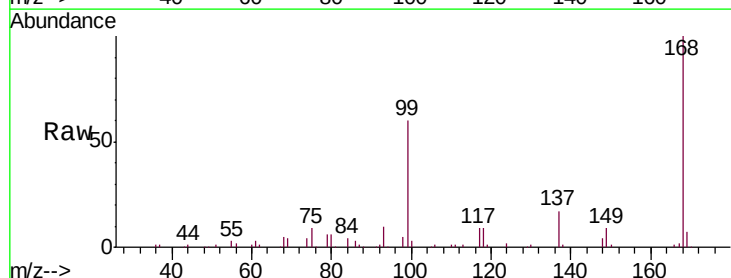
Tgt Ion: 56 Resp: 3165

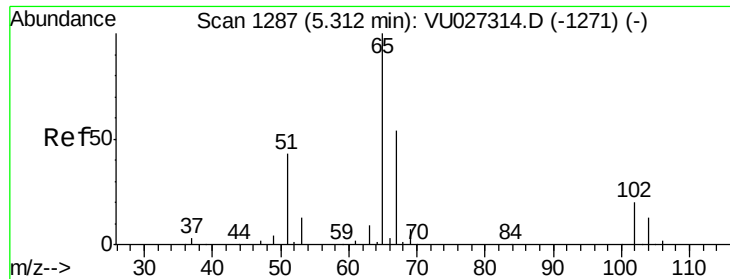
Ion Ratio Lower Upper

56 100

69 175.5 24.1 36.1#

84 154.6 59.1 88.7#

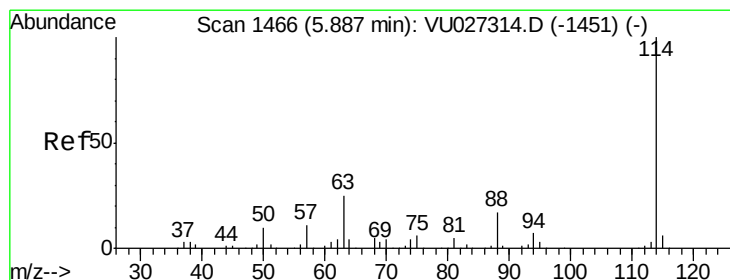
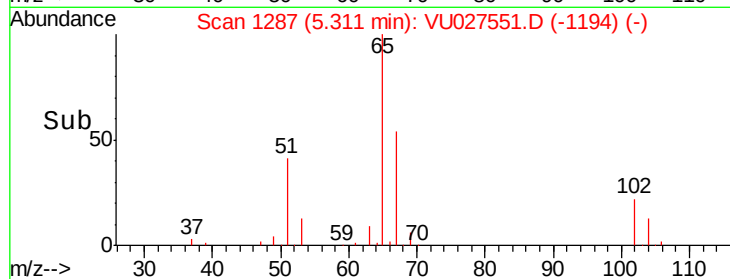
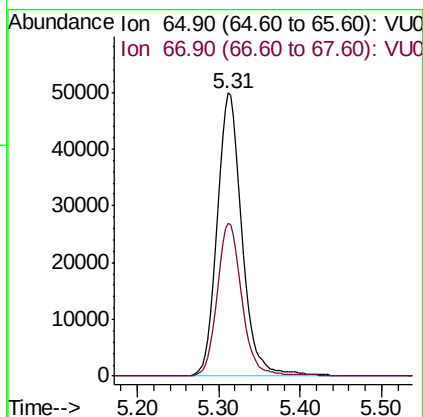
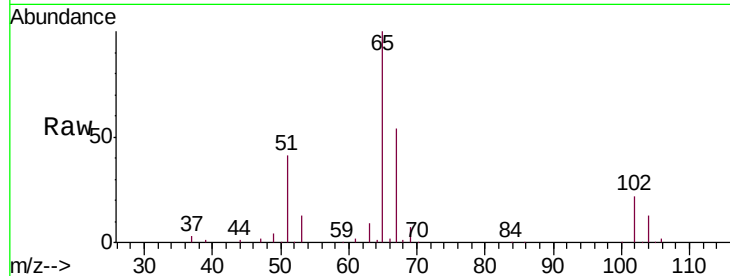




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.045 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. 0.00 min  
 Lab File: VU027551.D  
 Acq: 10 Oct 2018 02:58

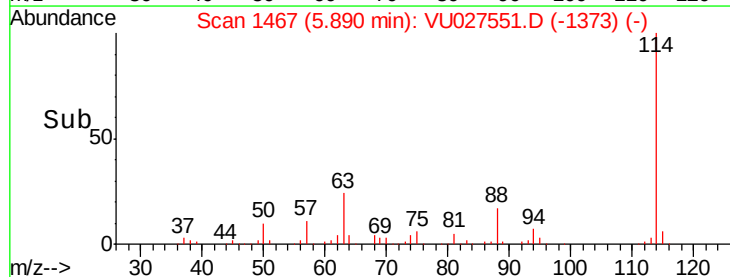
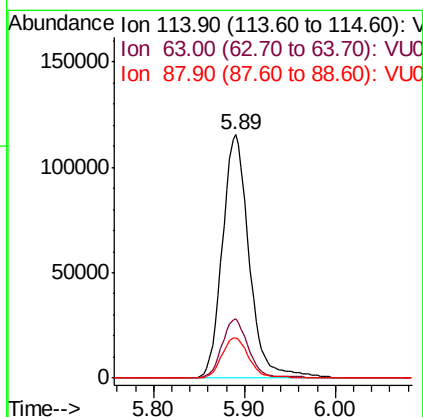
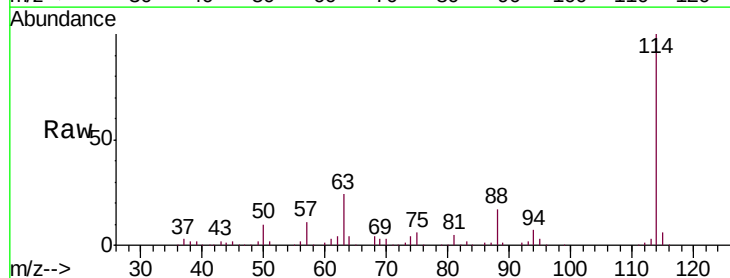
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 POND-2

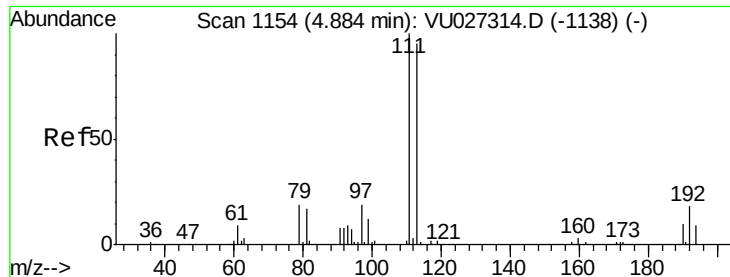
Tgt Ion: 65 Resp: 107712  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 0.0 107.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027551.D  
 Acq: 10 Oct 2018 02:58

Tgt Ion: 114 Resp: 236868  
 Ion Ratio Lower Upper  
 114 100  
 63 24.1 0.0 50.2  
 88 16.7 0.0 33.8

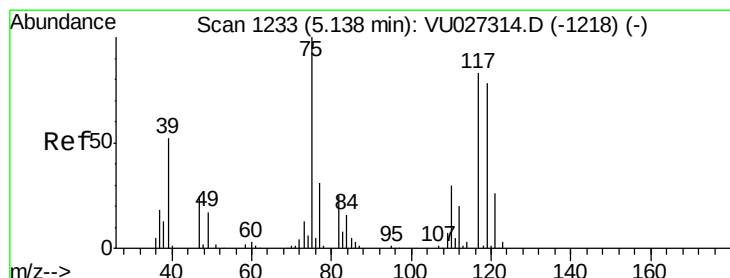
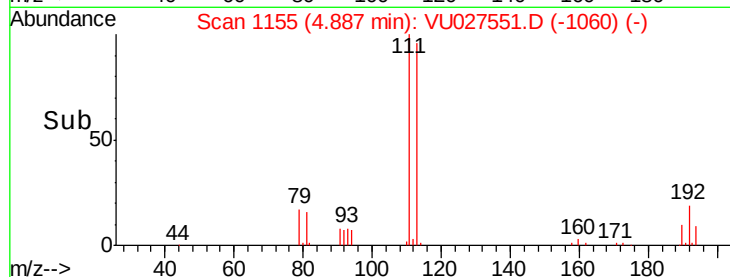
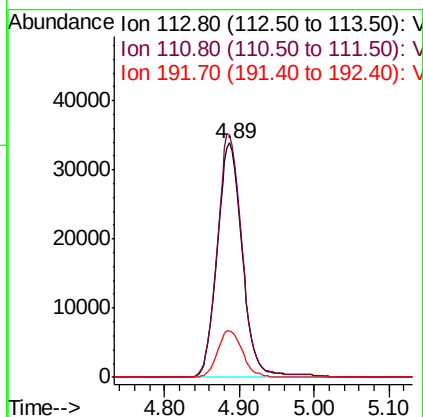
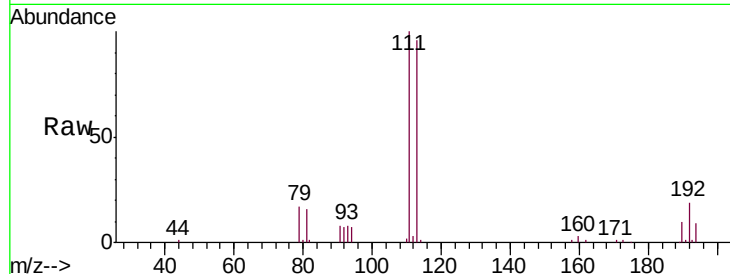




#35  
 Dibromofluoromethane  
 Concen: 48.649 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027551.D  
 Acq: 10 Oct 2018 02:58

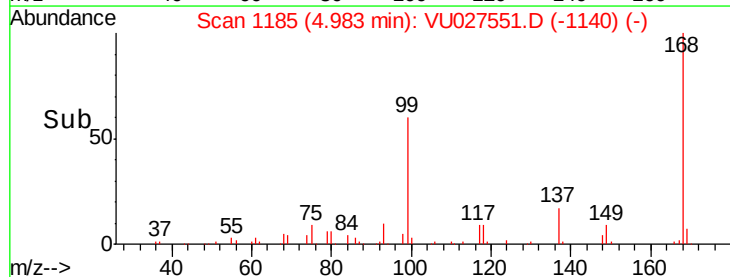
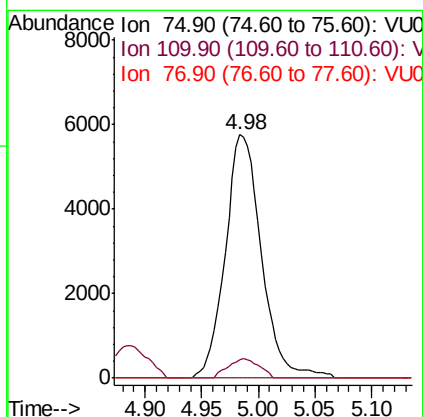
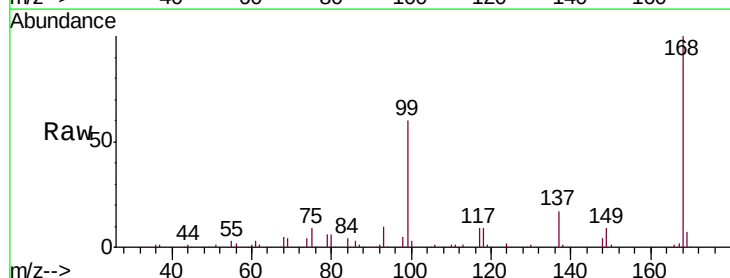
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 POND-2

Tgt Ion:113 Resp: 78973  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 83.1 124.7  
 192 19.7 15.4 23.0

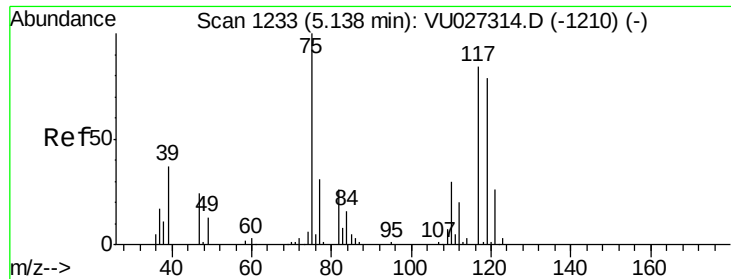


#36  
 1,1-Dichloropropene  
 Concen: 4.986 ug/l  
 RT: 4.98 min Scan# 1185  
 Delta R.T. -0.15 min  
 Lab File: VU027551.D  
 Acq: 10 Oct 2018 02:58

Tgt Ion: 75 Resp: 12824  
 Ion Ratio Lower Upper  
 75 100  
 110 6.8 15.5 46.5#  
 77 0.0 25.4 38.0#







#38

Carbon Tetrachloride

Concen: 5.994 ug/l

RT: 4.99 min Scan# 1187

Delta R.T. -0.15 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

Instrument :

MSVOA\_U

ClientSampleId :

POND-2

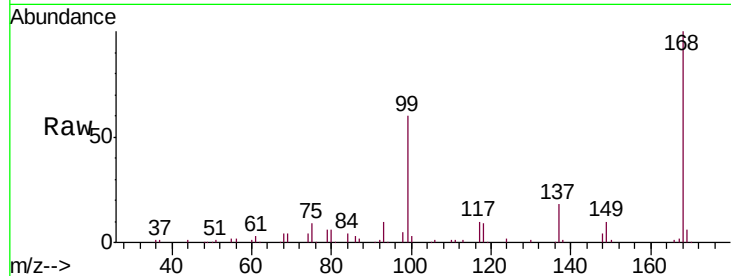
Tgt Ion:117 Resp: 13926

Ion Ratio Lower Upper

117 100

119 5.2 74.5 111.7#

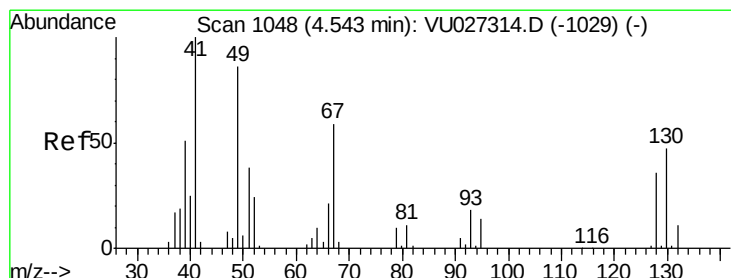
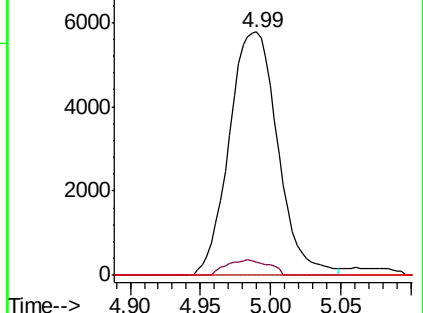
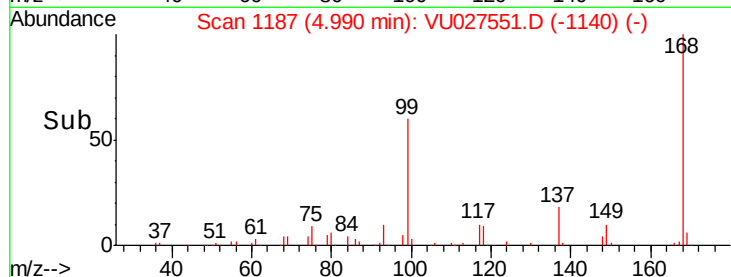
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.222 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.12 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

Tgt Ion: 41 Resp: 418

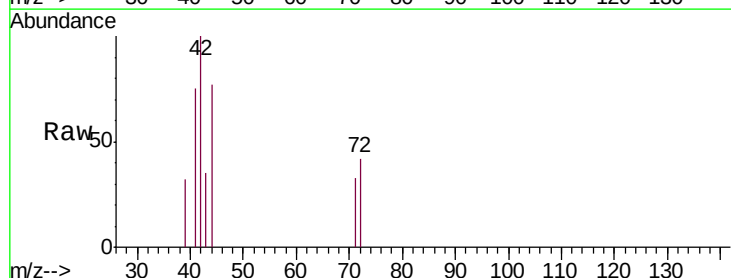
Ion Ratio Lower Upper

41 100

39 4.8 41.1 61.7#

67 0.0 50.4 75.6#

52 0.0 20.3 30.5#

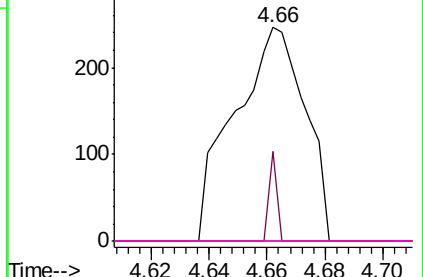
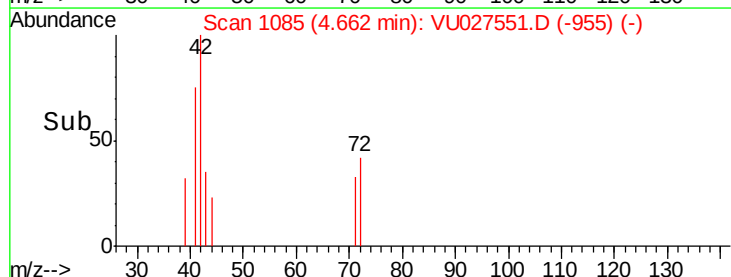


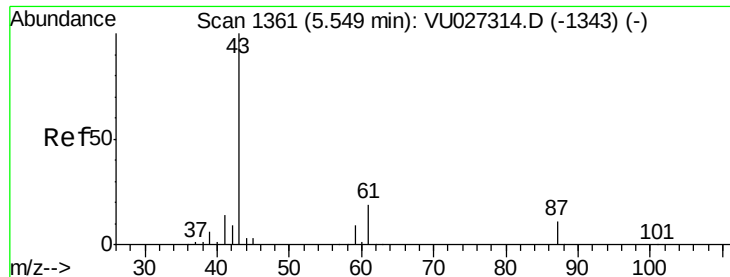
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#43

Isopropyl Acetate

Concen: 24.812 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

Instrument :

MSVOA\_U

ClientSampleId :

POND-2

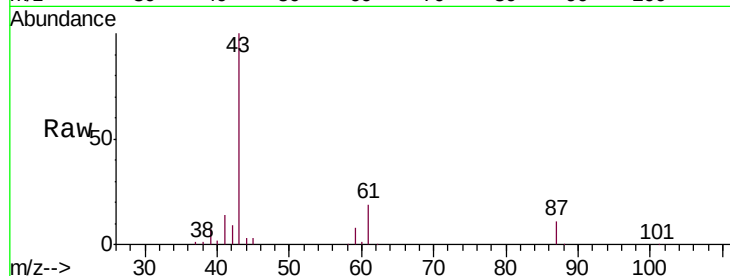
Tgt Ion: 43 Resp: 128088

Ion Ratio Lower Upper

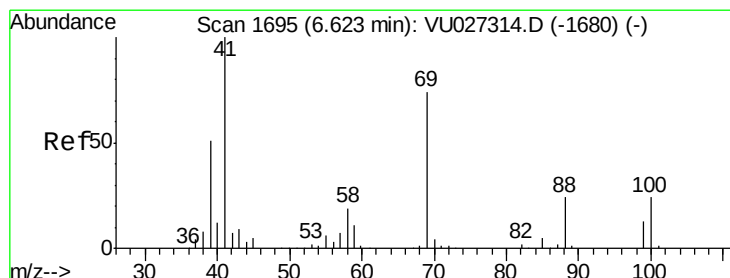
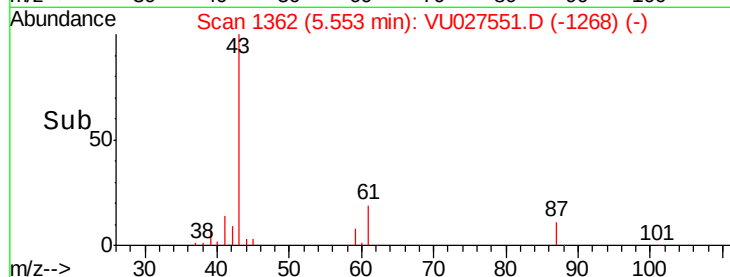
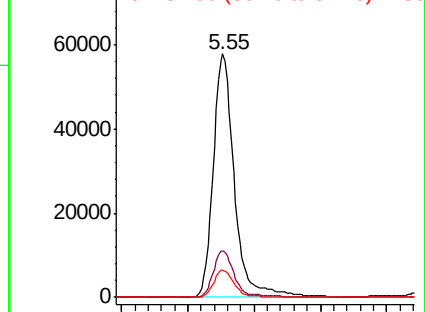
43 100

61 19.2 15.3 22.9

87 11.1 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 87.00 (86.70 to 87.70): VU0



#48

Methyl methacrylate

Concen: 4.106 ug/l

RT: 6.71 min Scan# 1722

Delta R.T. 0.09 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

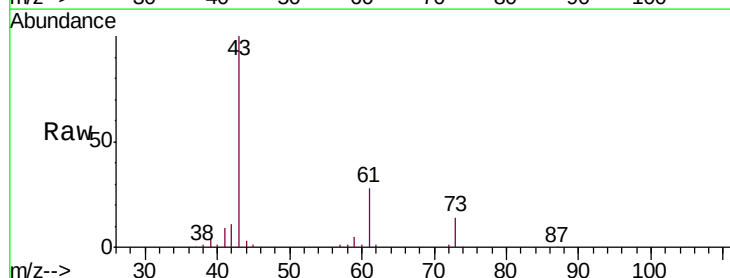
Tgt Ion: 41 Resp: 10542

Ion Ratio Lower Upper

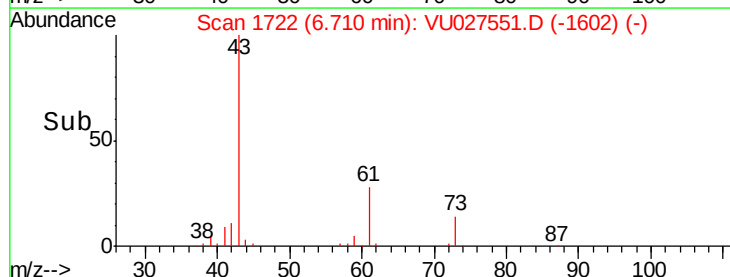
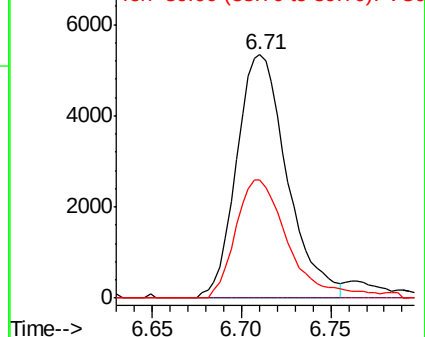
41 100

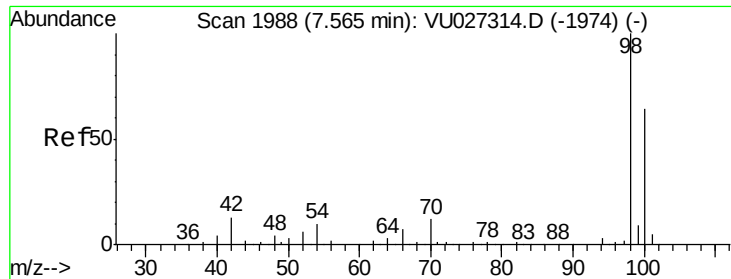
69 0.0 61.0 91.4#

39 50.3 39.9 59.9



Abundance Ion 41.00 (40.70 to 41.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0

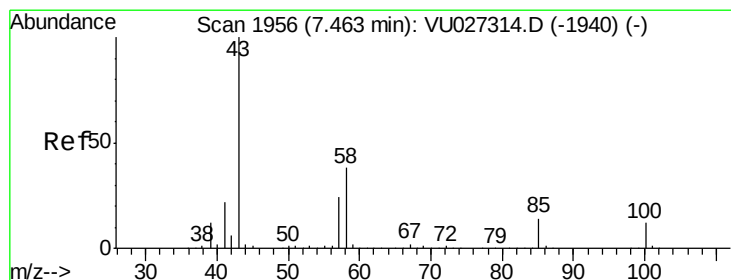
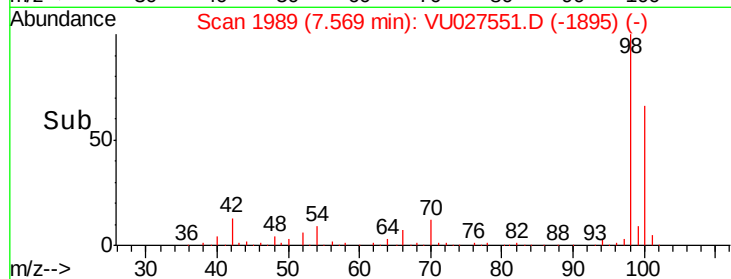
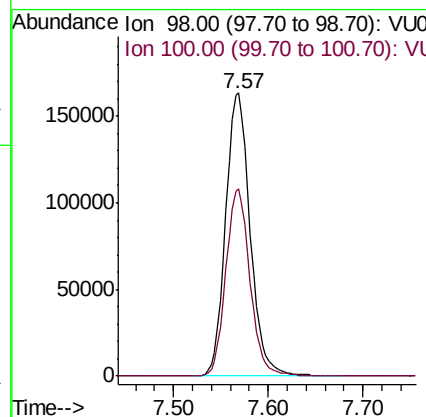
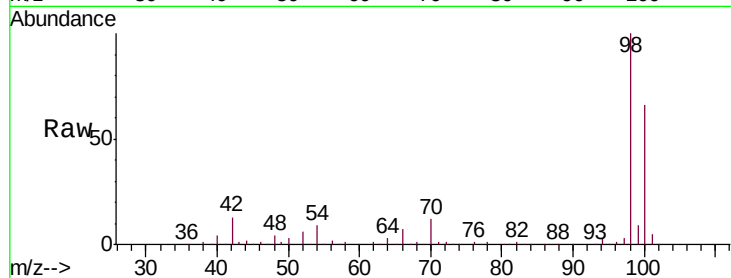




#50  
Toluene-d8  
Concen: 48.426 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

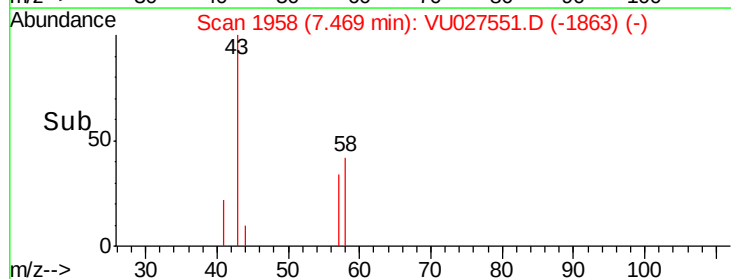
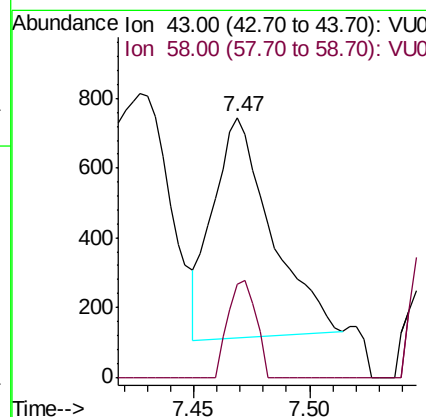
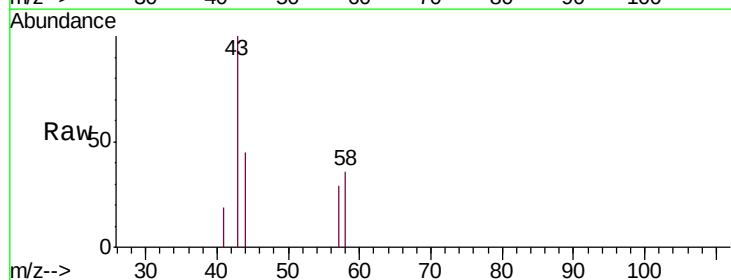
Instrument :  
MSVOA\_U  
ClientSampleId :  
POND-2

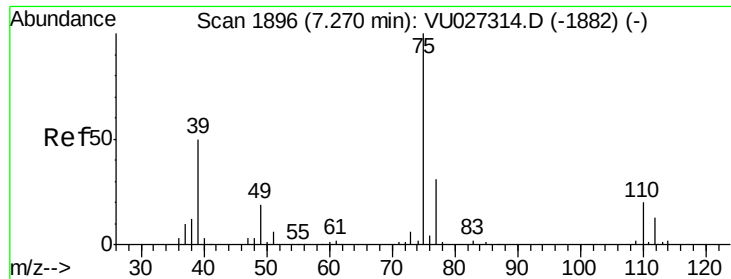
Tgt Ion: 98 Resp: 294218  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.330 ug/l  
RT: 7.47 min Scan# 1958  
Delta R.T. 0.01 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

Tgt Ion: 43 Resp: 1107  
Ion Ratio Lower Upper  
43 100  
58 20.9 29.8 44.8#



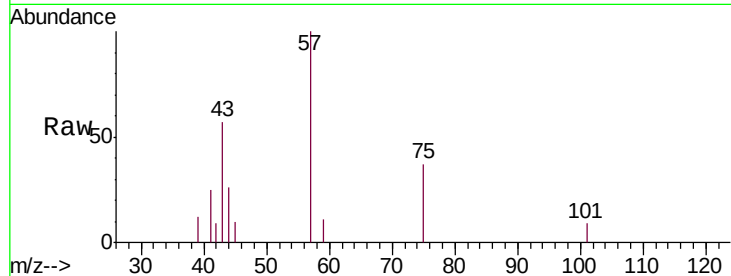


#54

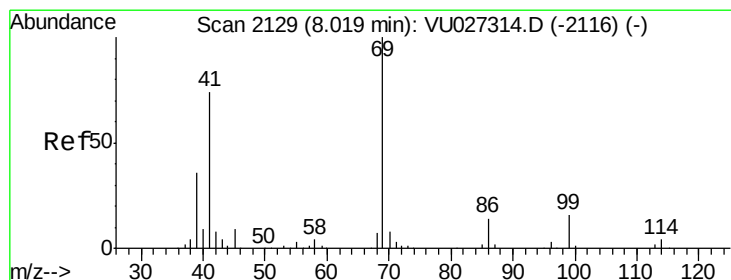
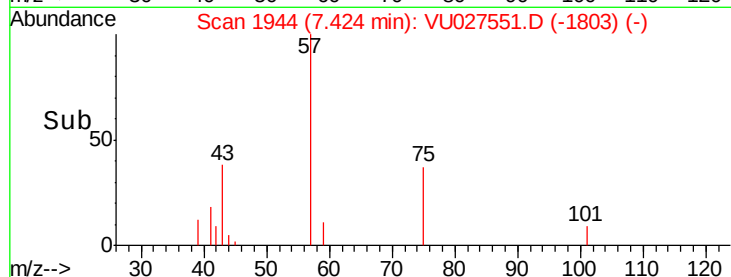
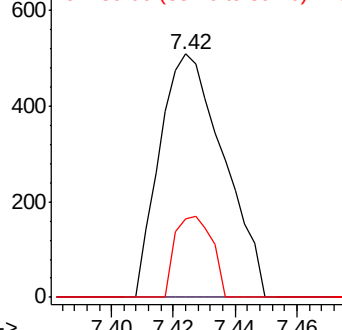
cis-1,3-Dichloropropene  
 Concen: 0.230 ug/l  
 RT: 7.42 min Scan# 1944  
 Delta R.T. 0.15 min  
 Lab File: VU027551.D  
 Acq: 10 Oct 2018 02:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 POND-2

Tgt Ion: 75 Resp: 733  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.5 36.7#  
 39 32.2 40.1 60.1#



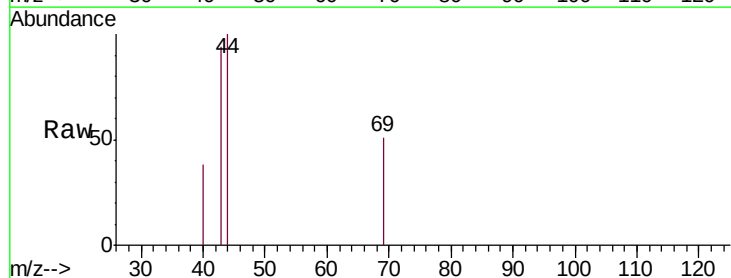
Abundance Ion 74.90 (74.60 to 75.60): VU0  
 Ion 76.90 (76.60 to 77.60): VU0  
 Ion 39.00 (38.70 to 39.70): VU0



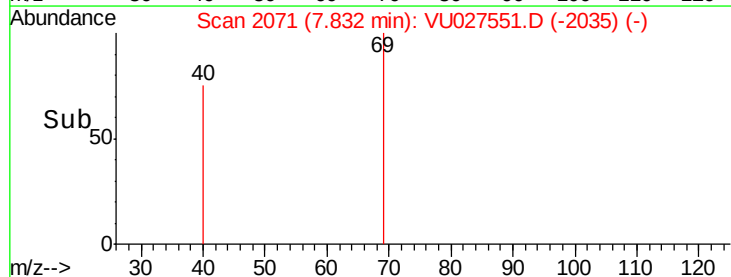
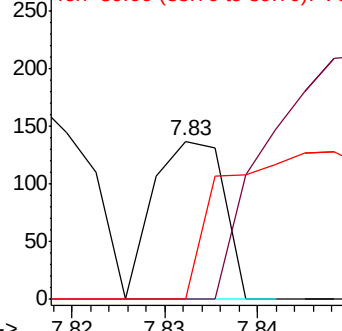
#56

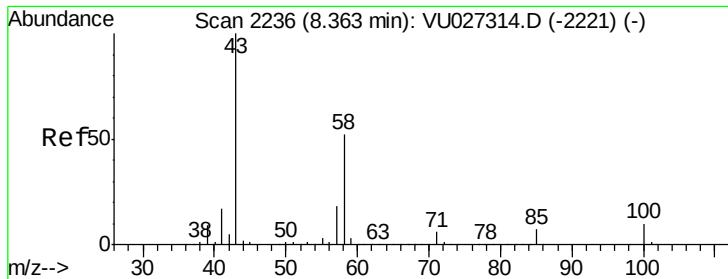
Ethyl methacrylate  
 Concen: 2.292 ug/l  
 RT: 7.83 min Scan# 2071  
 Delta R.T. -0.19 min  
 Lab File: VU027551.D  
 Acq: 10 Oct 2018 02:58

Tgt Ion: 69 Resp: 72  
 Ion Ratio Lower Upper  
 69 100  
 41 476.4 60.0 90.0#  
 39 188.9 29.5 44.3#



Abundance Ion 69.00 (68.70 to 69.70): VU0  
 Ion 41.00 (40.70 to 41.70): VU0  
 Ion 39.00 (38.70 to 39.70): VU0

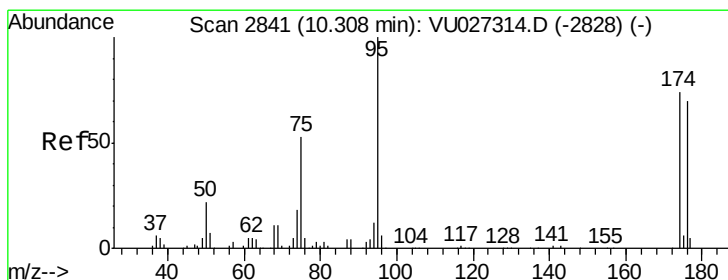
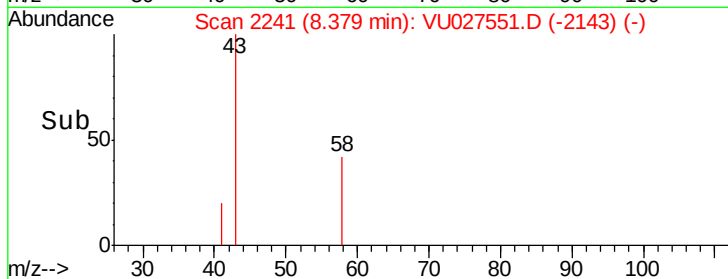
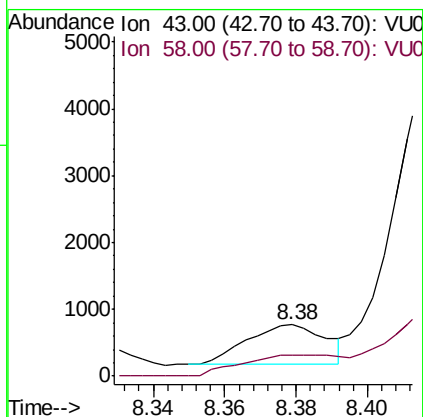
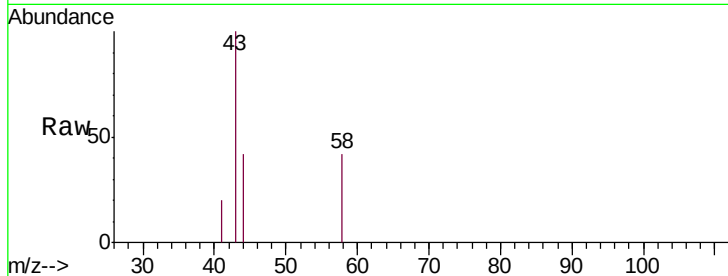




#59  
2-Hexanone  
Concen: 0.349 ug/l  
RT: 8.38 min Scan# 2241  
Delta R.T. 0.02 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

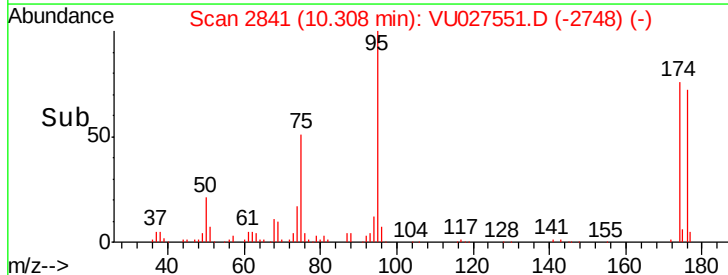
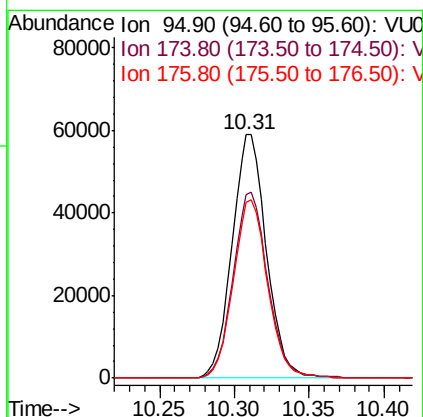
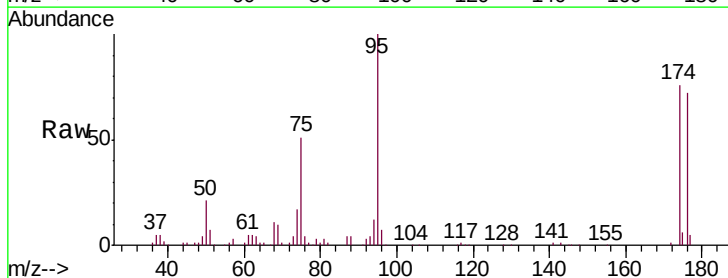
Instrument :  
MSVOA\_U  
ClientSampled :  
POND-2

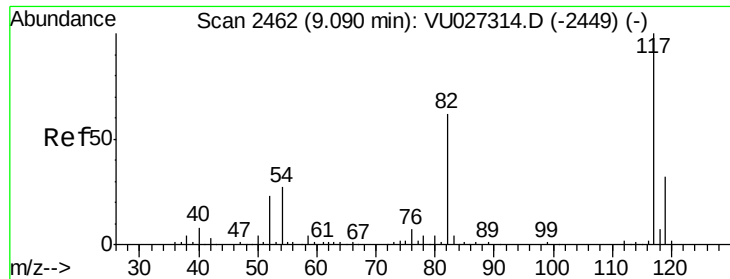
Tgt Ion: 43 Resp: 907  
Ion Ratio Lower Upper  
43 100  
58 69.2 26.1 78.3



#62  
4-Bromofluorobenzene  
Concen: 41.724 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

Tgt Ion: 95 Resp: 94210  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 147.8  
176 73.4 0.0 140.8

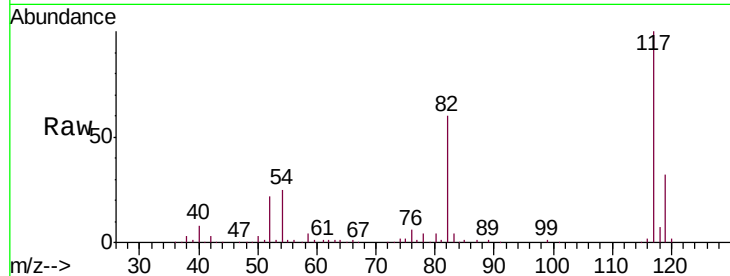




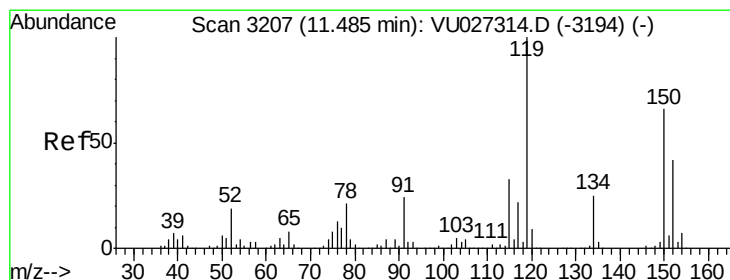
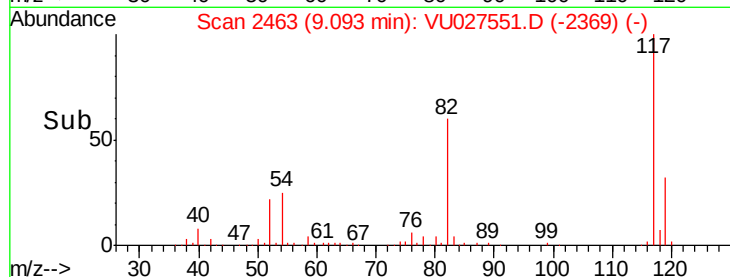
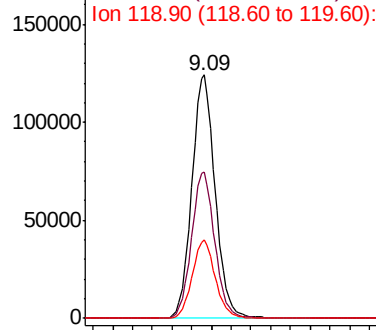
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

Instrument :  
MSVOA\_U  
ClientSampleId :  
POND-2

Tgt Ion:117 Resp: 206123  
Ion Ratio Lower Upper  
117 100  
82 60.1 49.2 73.8  
119 32.3 25.7 38.5

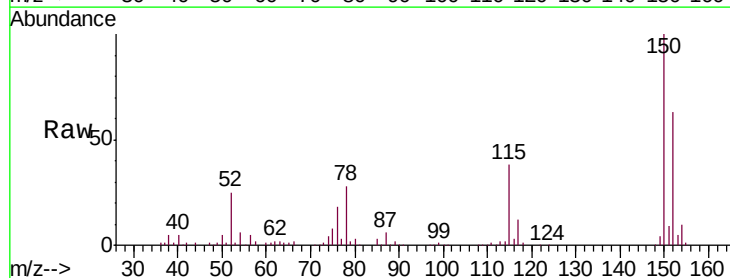


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

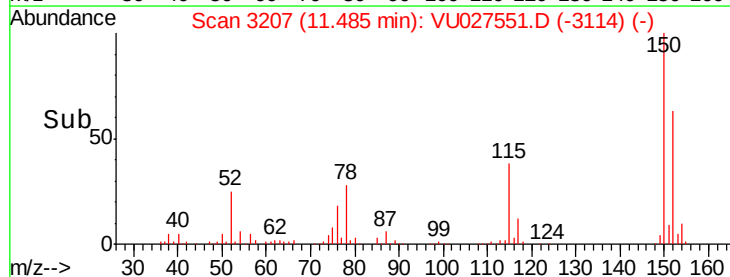
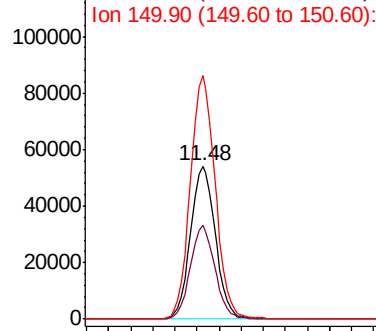


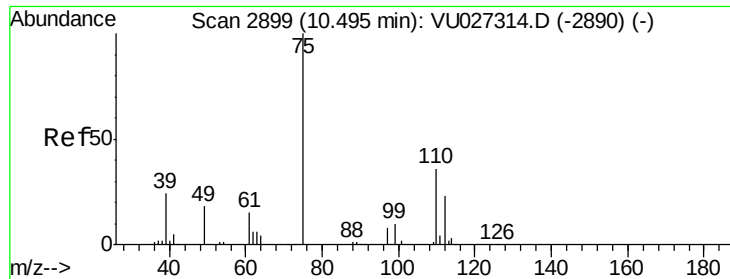
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027551.D  
Acq: 10 Oct 2018 02:58

Tgt Ion:152 Resp: 84744  
Ion Ratio Lower Upper  
152 100  
115 60.3 43.4 130.2  
150 159.2 0.0 349.2



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: 22.068 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

Instrument :

MSVOA\_U

ClientSampleId :

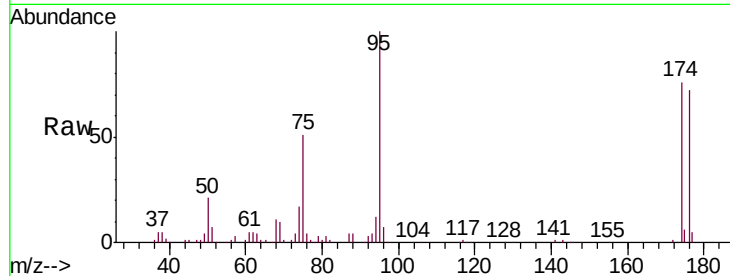
POND-2

Tgt Ion: 75 Resp: 48479

Ion Ratio Lower Upper

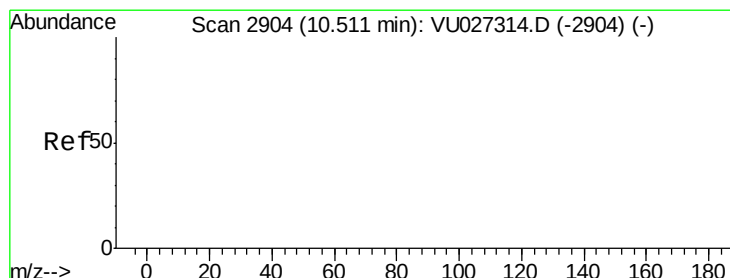
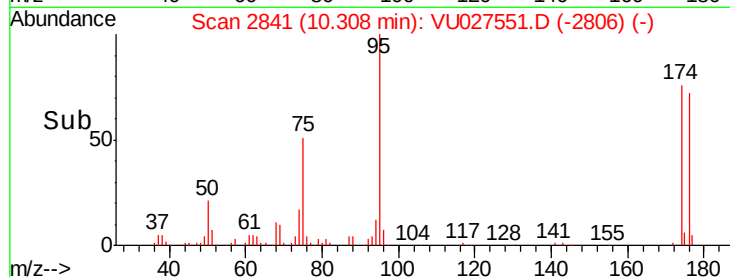
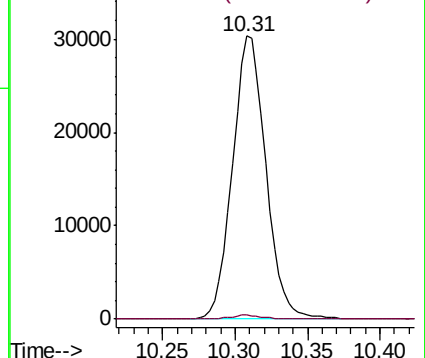
75 100

77 1.2 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 57.755 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027551.D

Acq: 10 Oct 2018 02:58

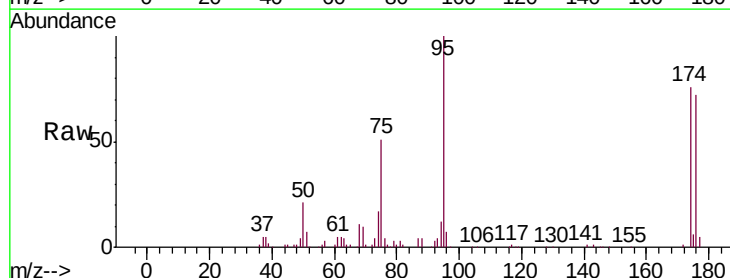
Tgt Ion: 75 Resp: 48479

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

