

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092218\  
 Data File : VU026989.D  
 Acq On : 21 Sep 2018 23:58  
 Operator : MD/SY  
 Sample : J4916-19  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ138I1-20180911

Quant Time: Sep 22 02:24:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 72473    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 145931   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 151602   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 73074    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 86973    | 59.63 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 119.26% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 65598    | 51.86 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.72% |          |
| 50) Toluene-d8              | 7.57  | 98   | 238135   | 49.40 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.80%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 81051    | 49.00 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.00%  |          |

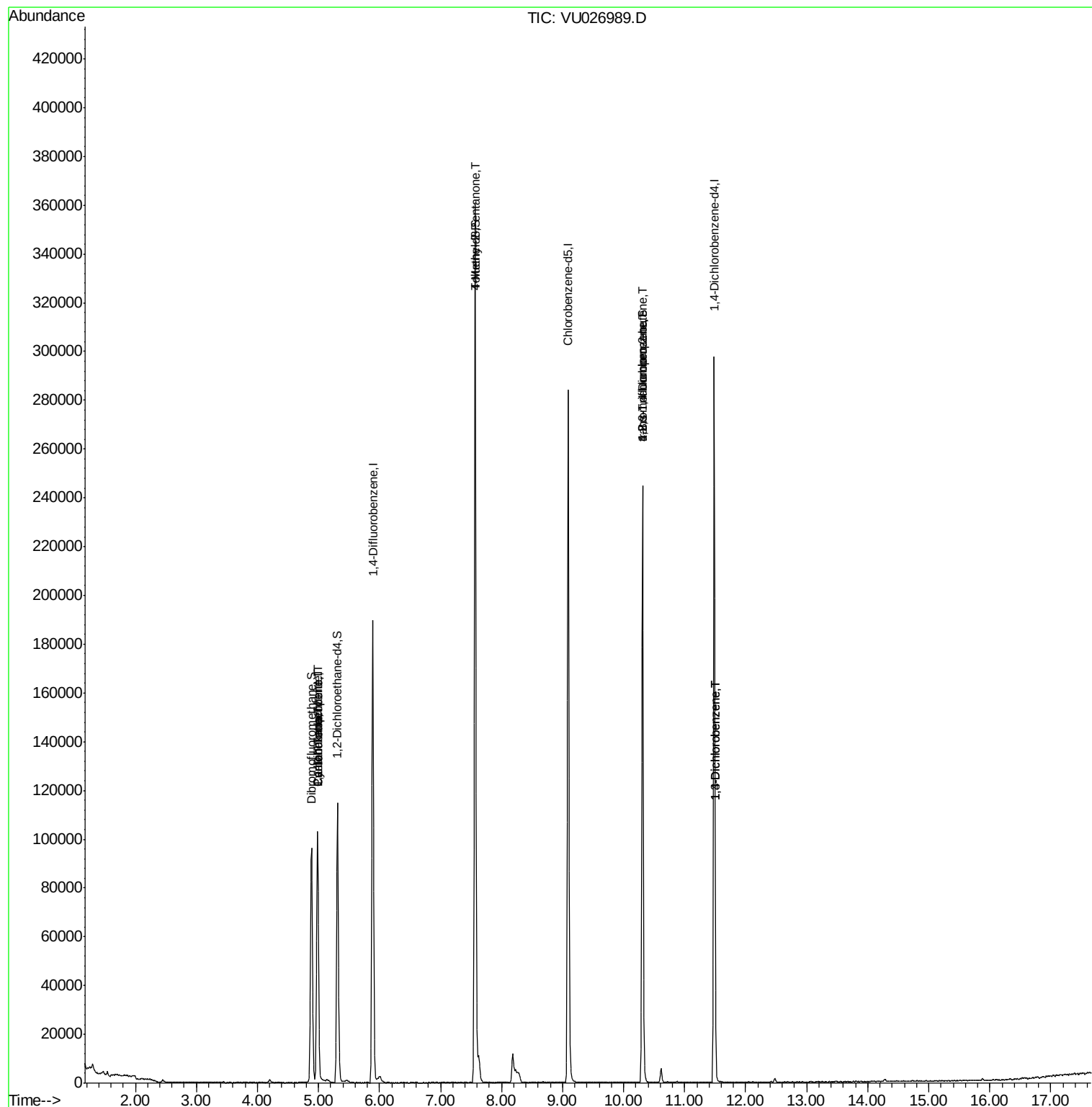
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 2.32  | 43   | 576      | Below Cal |        | 95     |
| 31) Cyclohexane                | 4.99  | 56   | 1693     | 0.206     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 6676     | 3.428     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 7622     | 4.112     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43   | 1155     | 0.447     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 43976    | 19.809    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 43976    | 63.393    | ug/l # | 100    |
| 87) 1,3-Dichlorobenzene        | 11.51 | 146  | 648      | 0.256     | ug/l # | 24     |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 648      | 0.235     | ug/l # | 25     |

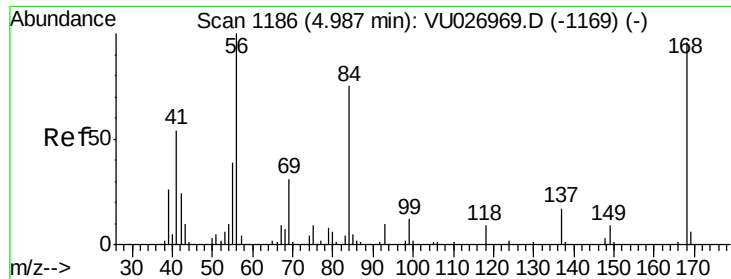
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 22 01:31:57 2018  
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: VU026989.D

Acq: 21 Sep 2018 23:58

Instrument :

MSVOA\_U

ClientSampleId :

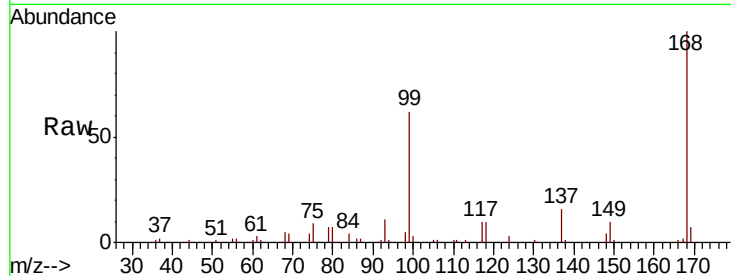
SA-PZ138I1-20180911

Tgt Ion:168 Resp: 72473

Ion Ratio Lower Upper

168 100

99 61.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026989.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026989.D (-1169) (-)

4.99

30000

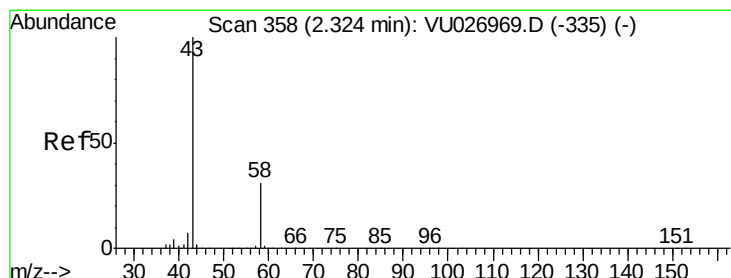
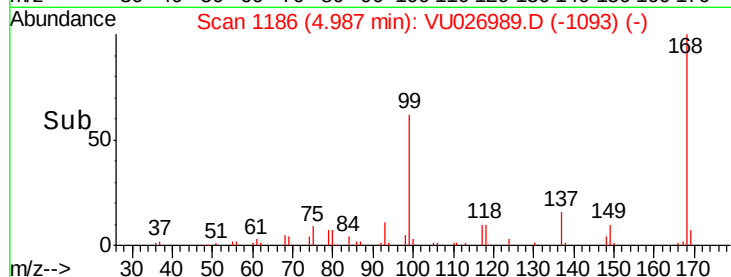
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU026989.D

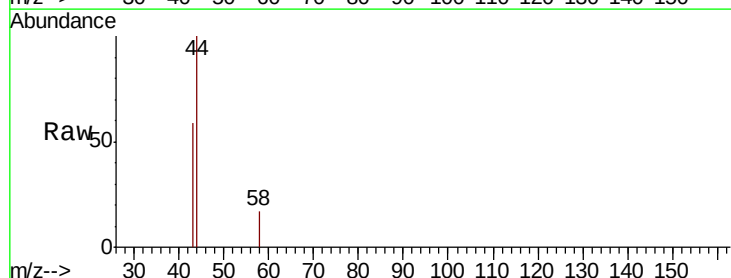
Acq: 21 Sep 2018 23:58

Tgt Ion: 43 Resp: 576

Ion Ratio Lower Upper

43 100

58 28.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU026989.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VU026989.D (-335) (-)

2.32

400

300

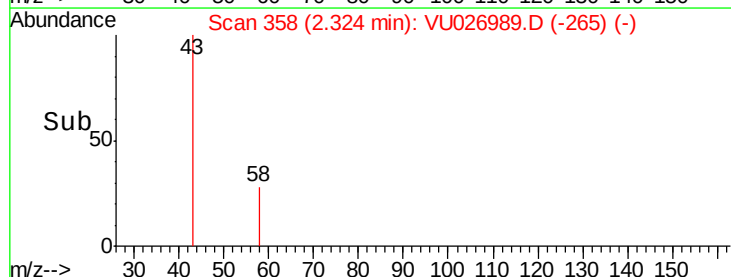
200

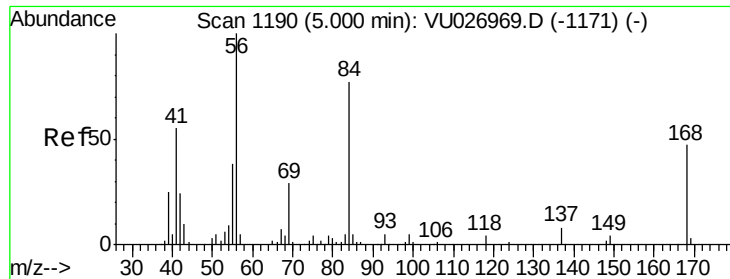
100

0

2.28 2.30 2.32 2.34 2.36

Time-->

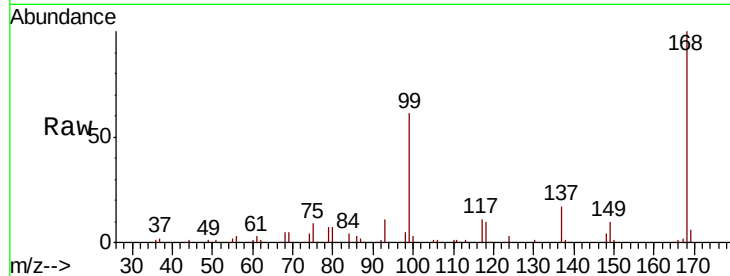




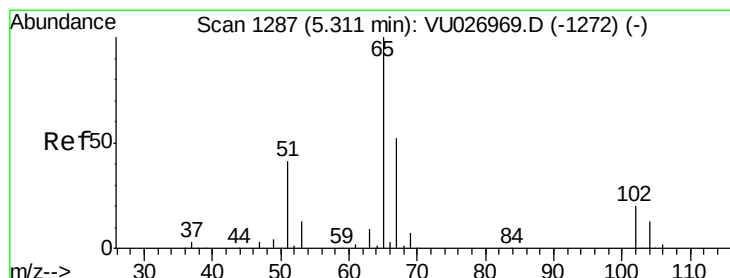
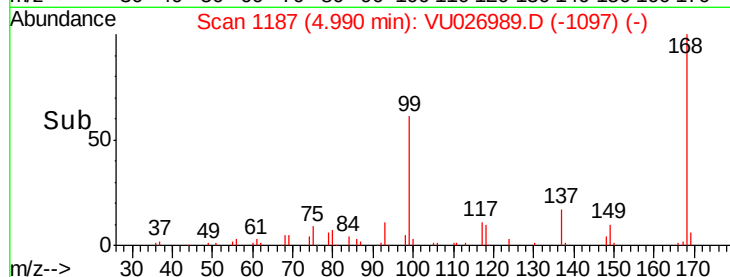
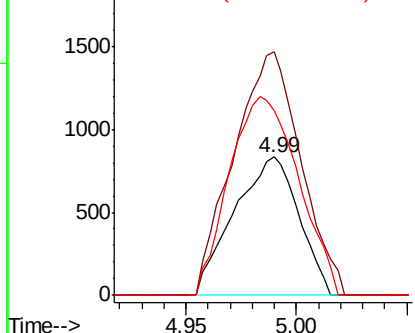
#31  
Cyclohexane  
Concen: 0.206 ug/l  
RT: 4.99 min Scan# 1187  
Delta R.T. -0.01 min  
Lab File: VU026989.D  
Acq: 21 Sep 2018 23:58

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ138I1-20180911

Tgt Ion: 56 Resp: 1693  
Ion Ratio Lower Upper  
56 100  
69 175.8 23.0 34.4#  
84 133.8 61.4 92.2#

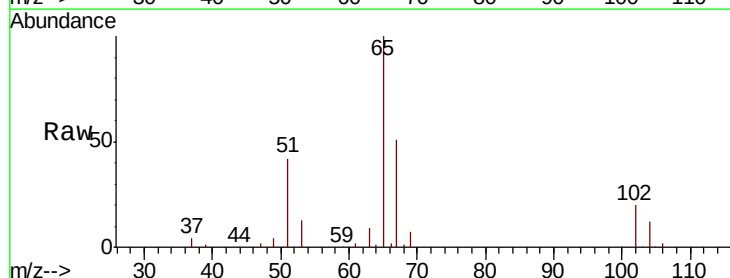


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

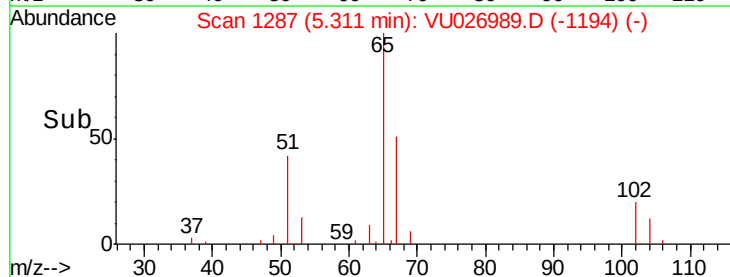
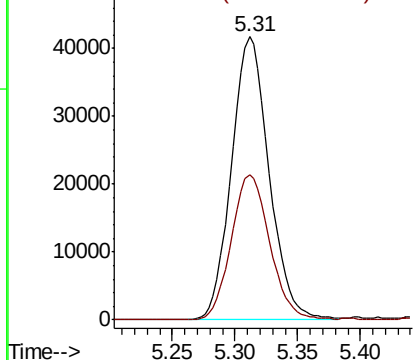


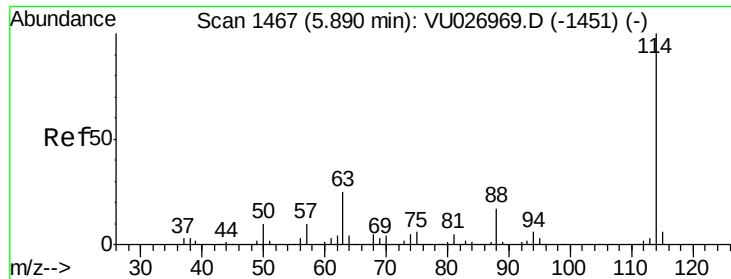
#33  
1,2-Dichloroethane-d4  
Concen: 59.626 ug/l  
RT: 5.31 min Scan# 1287  
Delta R.T. -0.00 min  
Lab File: VU026989.D  
Acq: 21 Sep 2018 23:58

Tgt Ion: 65 Resp: 86973  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0  
Ion 66.90 (66.60 to 67.60): VU0

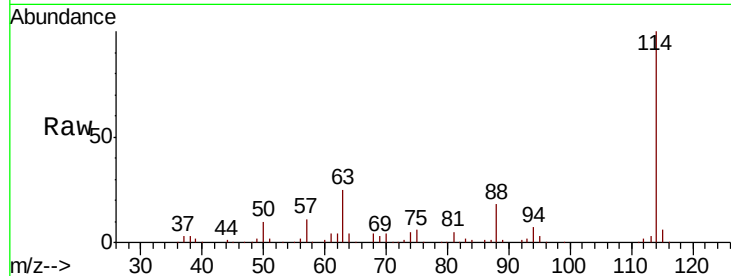




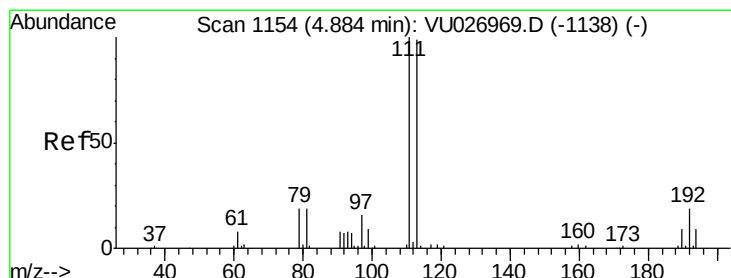
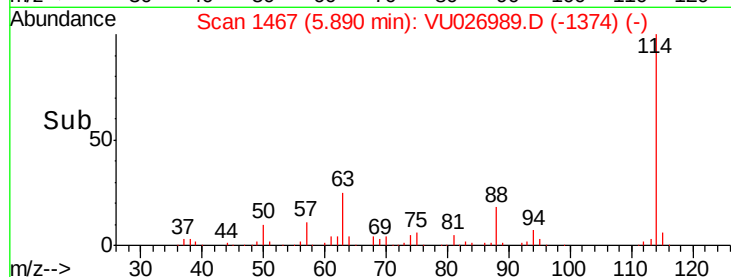
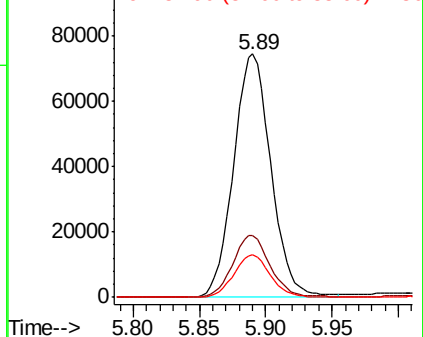
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.89 min Scan# 1467  
Delta R.T. -0.00 min  
Lab File: VU026989.D  
Acq: 21 Sep 2018 23:58

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ138I1-20180911

Tgt Ion:114 Resp: 145931  
Ion Ratio Lower Upper  
114 100  
63 25.3 0.0 49.2  
88 17.6 0.0 33.8

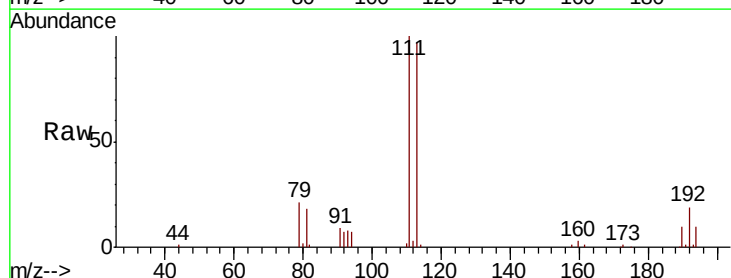


Abundance Ion 113.90 (113.60 to 114.60): V  
100000 Ion 63.00 (62.70 to 63.70): VU0  
80000 Ion 87.90 (87.60 to 88.60): VU0  
60000  
40000  
20000  
0

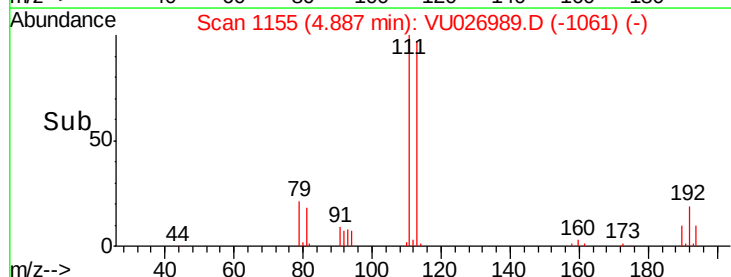
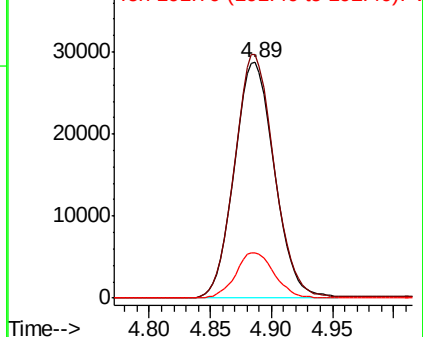


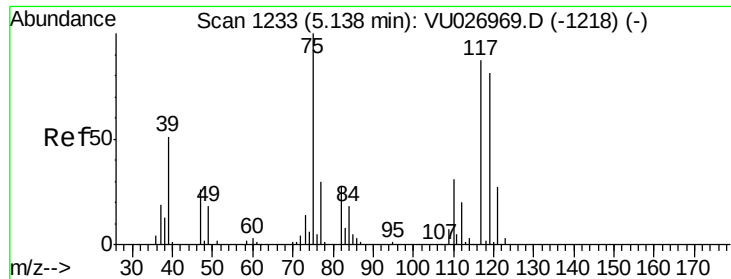
#35  
Dibromofluoromethane  
Concen: 51.859 ug/l  
RT: 4.89 min Scan# 1155  
Delta R.T. 0.00 min  
Lab File: VU026989.D  
Acq: 21 Sep 2018 23:58

Tgt Ion:113 Resp: 65598  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.2 123.4  
192 18.5 15.2 22.8



Abundance Ion 112.80 (112.50 to 113.50): V  
40000 Ion 110.80 (110.50 to 111.50): V  
30000 Ion 191.70 (191.40 to 192.40): V  
20000  
10000  
0

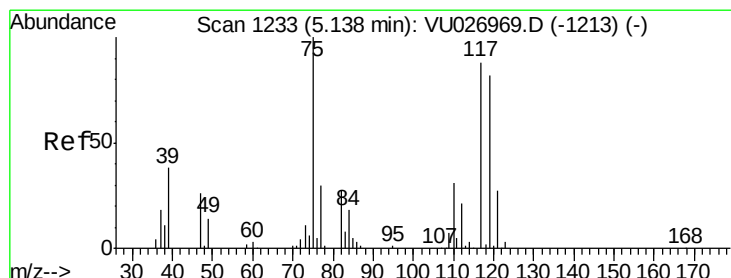
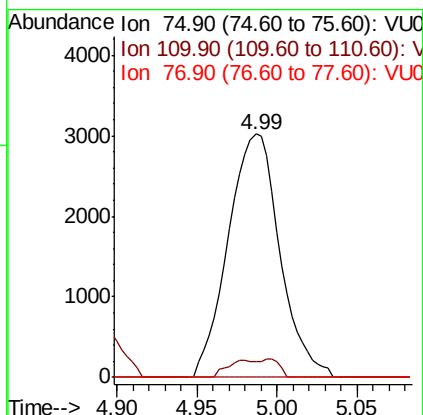
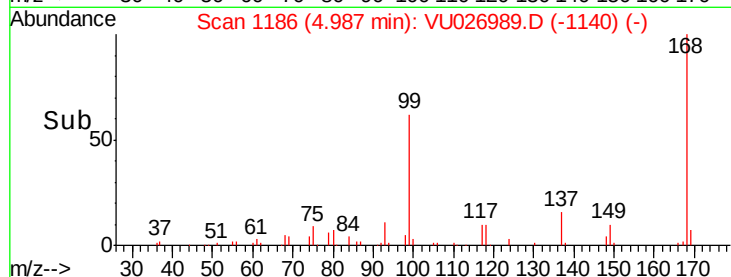
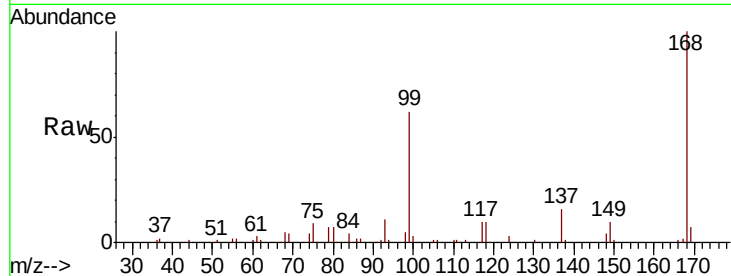




#36  
 1,1-Dichloropropene  
 Concen: 3.428 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

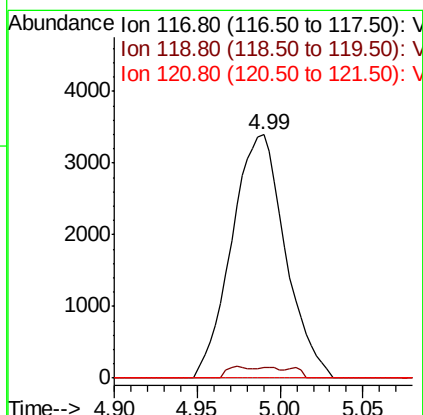
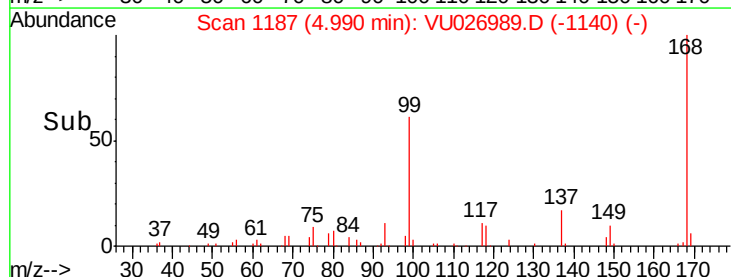
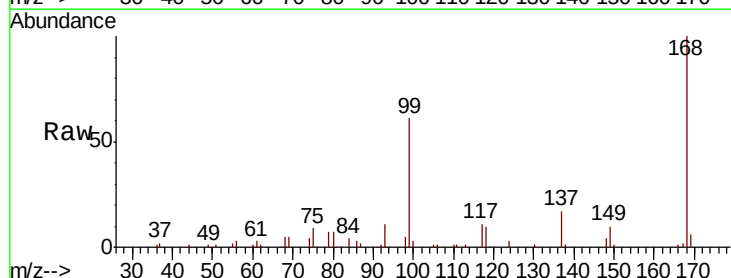
Instrument :  
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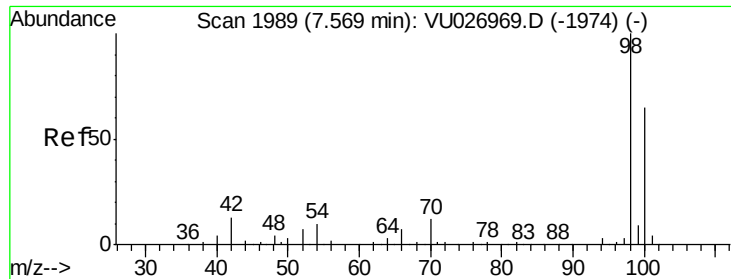
Tgt Ion: 75 Resp: 6676  
 Ion Ratio Lower Upper  
 75 100  
 110 3.9 16.1 48.2#  
 77 0.0 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 4.112 ug/l  
 RT: 4.99 min Scan# 1187  
 Delta R.T. -0.15 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

Tgt Ion: 117 Resp: 7622  
 Ion Ratio Lower Upper  
 117 100  
 119 4.1 74.4 111.6#  
 121 0.0 24.2 36.4#

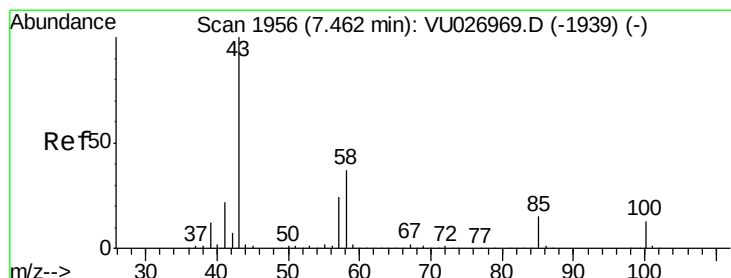
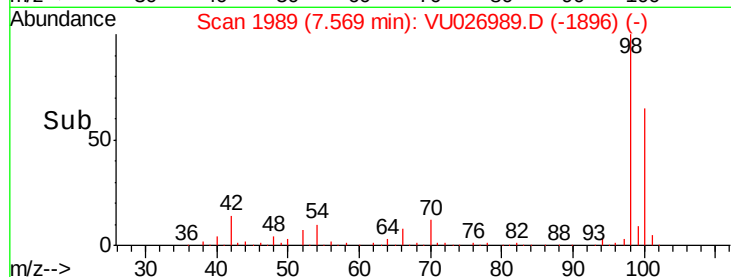
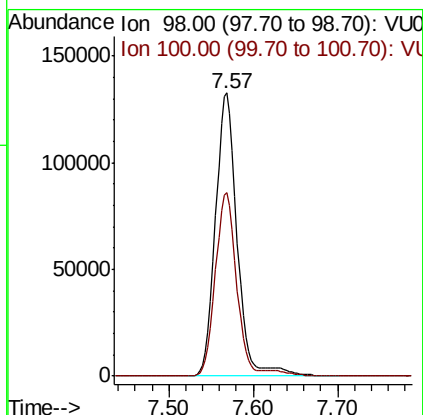
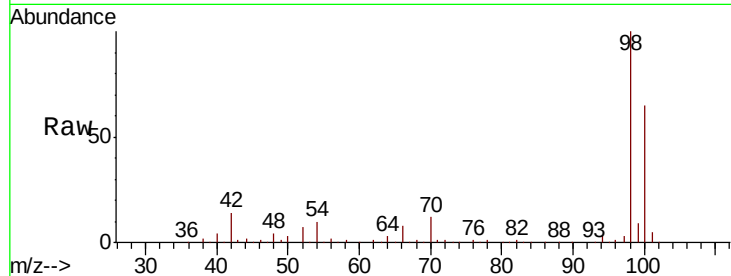




#50  
Toluene-d8  
Concen: 49.398 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU026989.D  
Acq: 21 Sep 2018 23:58

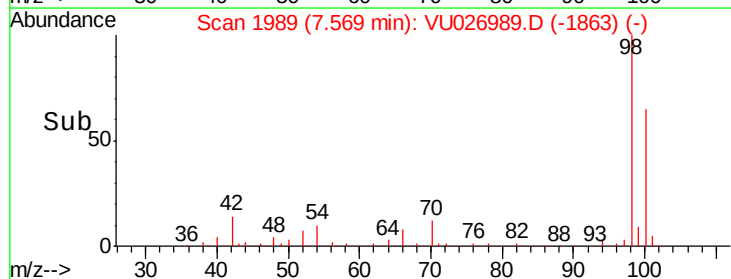
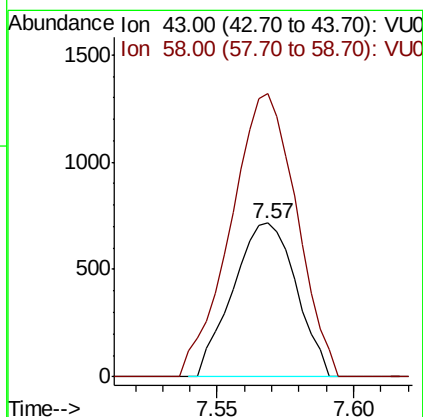
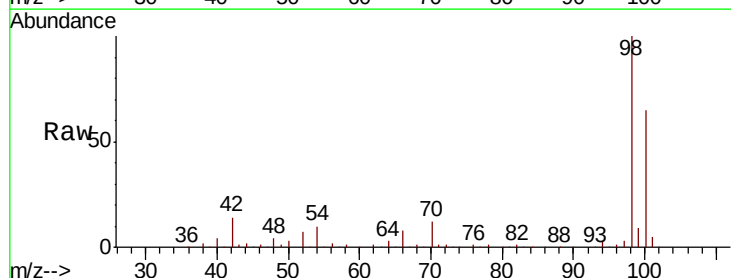
Instrument :  
MSVOA\_U  
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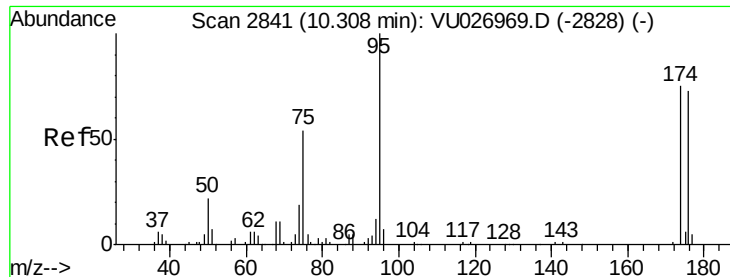
Tgt Ion: 98 Resp: 238135  
Ion Ratio Lower Upper  
98 100  
100 62.6 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.447 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.11 min  
Lab File: VU026989.D  
Acq: 21 Sep 2018 23:58

Tgt Ion: 43 Resp: 1155  
Ion Ratio Lower Upper  
43 100  
58 191.3 29.8 44.6#

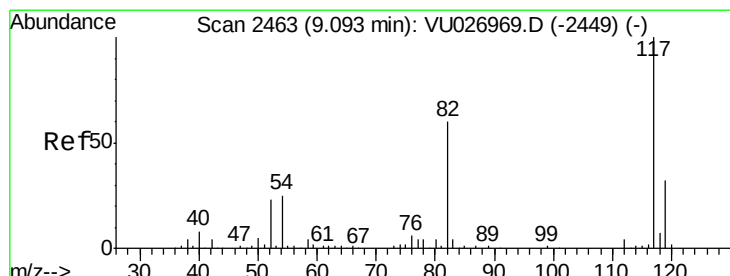
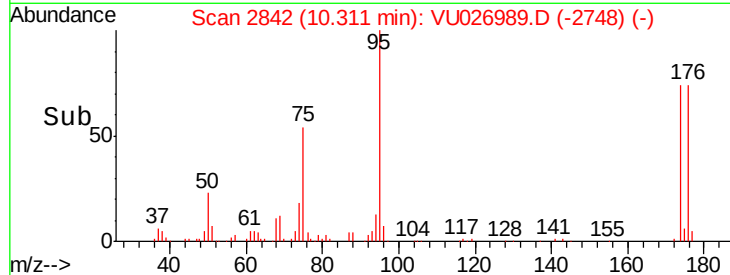
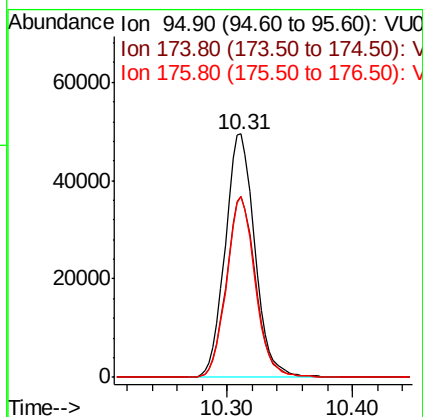
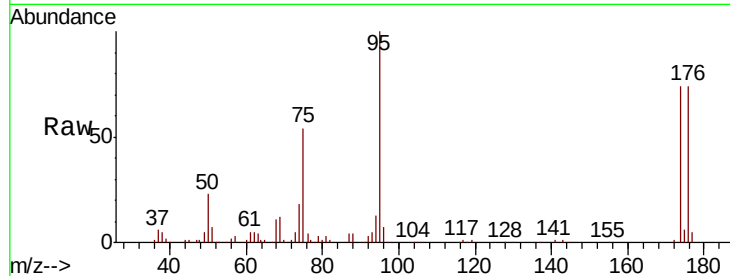




#62  
 4-Bromofluorobenzene  
 Concen: 48.999 ug/l  
 RT: 10.31 min Scan# 2842  
 Delta R.T. 0.00 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

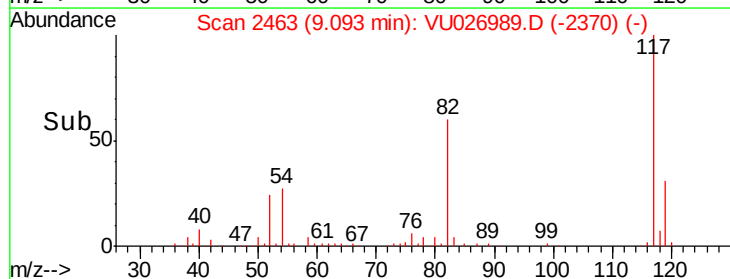
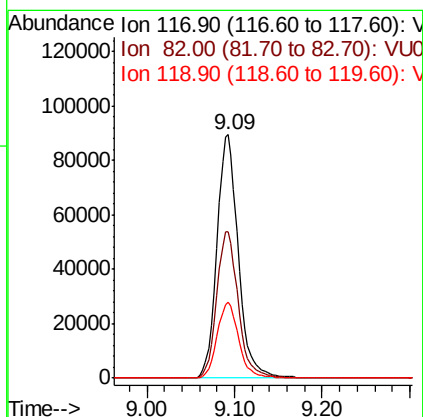
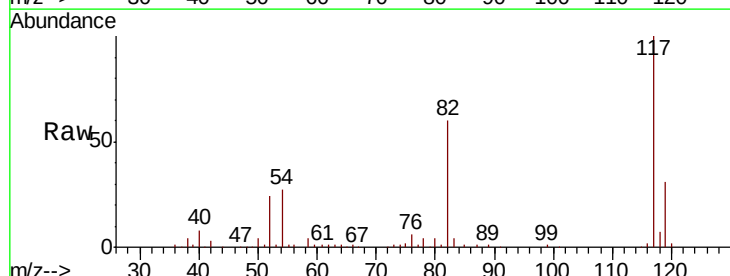
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ13811-20180911

Tgt Ion: 95 Resp: 81051  
 Ion Ratio Lower Upper  
 95 100  
 174 73.4 0.0 150.2  
 176 71.3 0.0 145.2

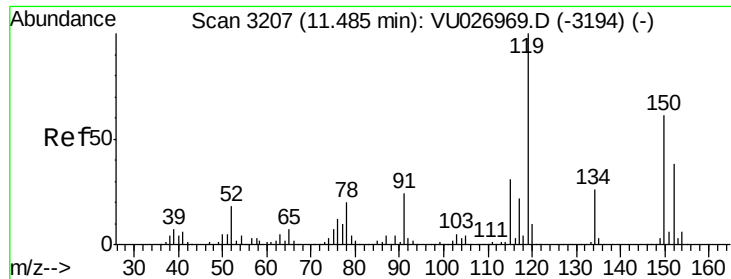


#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.09 min Scan# 2463  
 Delta R.T. 0.00 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

Tgt Ion: 117 Resp: 151602  
 Ion Ratio Lower Upper  
 117 100  
 82 60.3 48.0 72.0  
 119 31.0 25.8 38.8



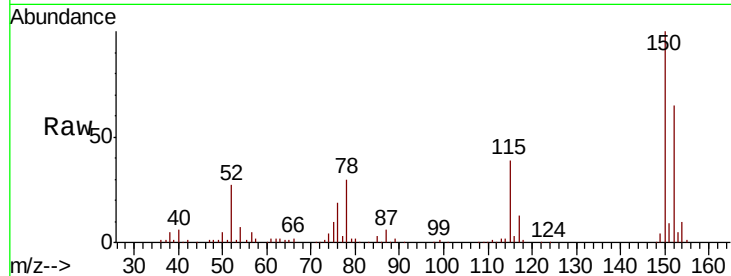




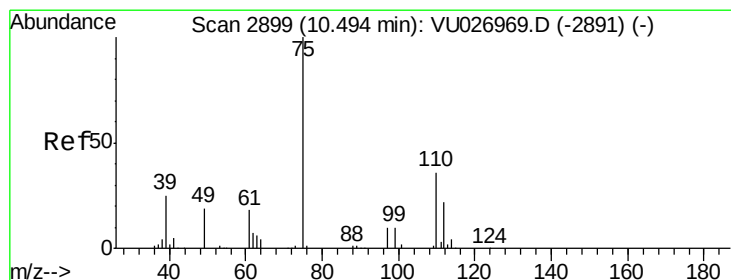
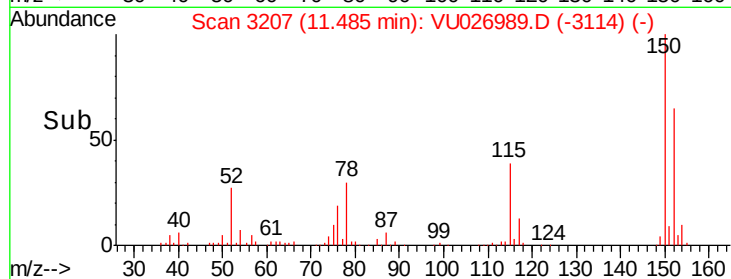
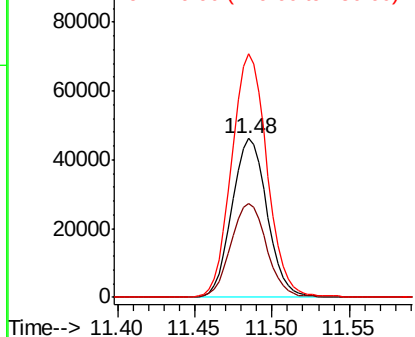
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.48 min Scan# 3207  
 Delta R.T. -0.00 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ13811-20180911

Tgt Ion:152 Resp: 73074  
 Ion Ratio Lower Upper  
 152 100  
 115 60.0 44.9 134.5  
 150 154.1 0.0 355.8

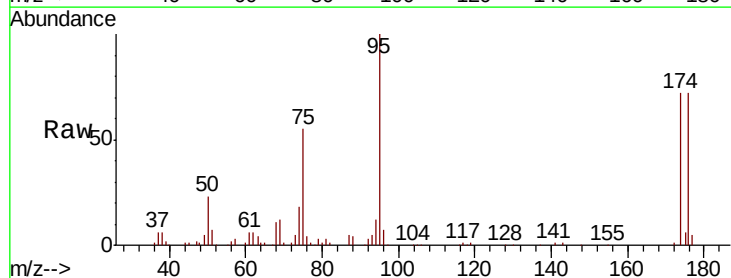


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

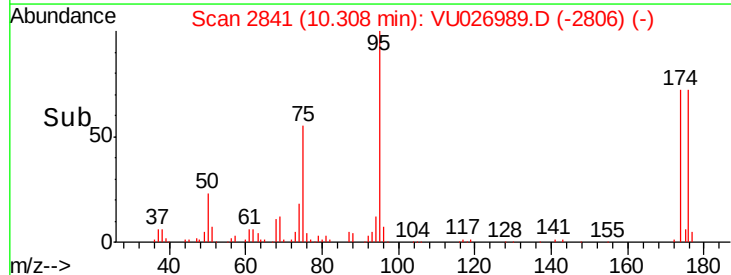
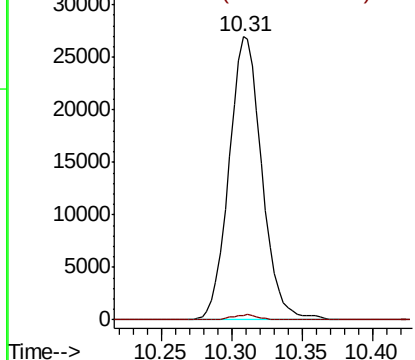


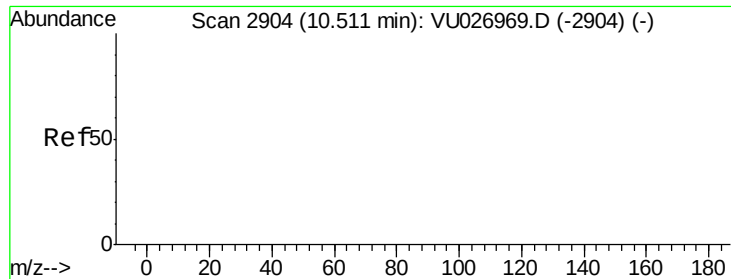
#76  
 1,2,3-Trichloropropane  
 Concen: 19.809 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.19 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

Tgt Ion: 75 Resp: 43976  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0  
 Ion 77.00 (76.70 to 77.70): VU0

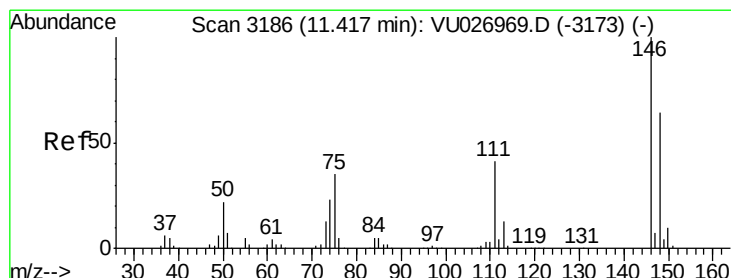
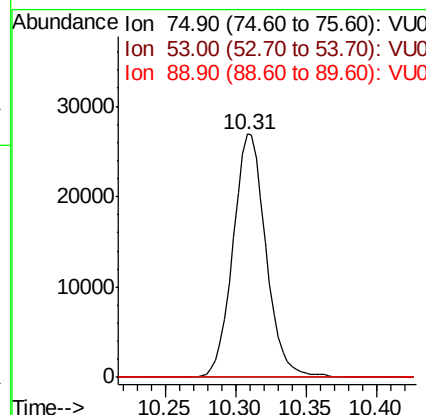
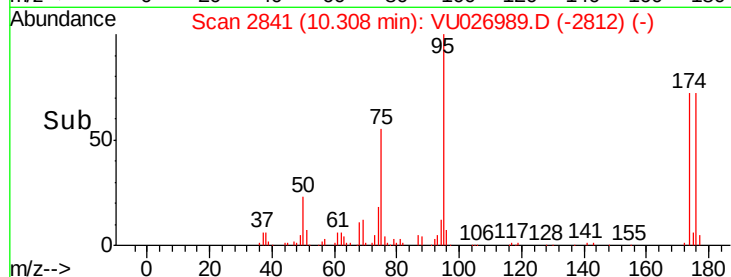
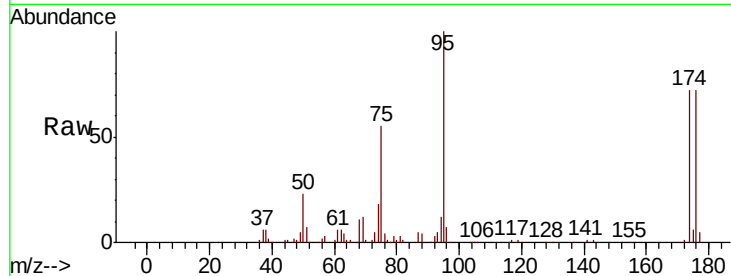




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 63.393 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.21 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

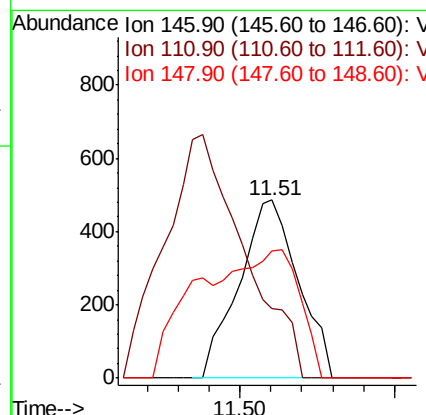
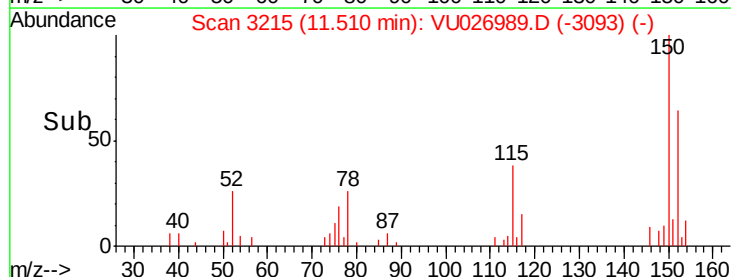
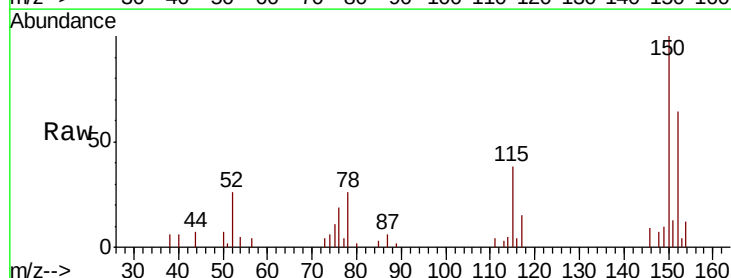
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ138I1-20180911

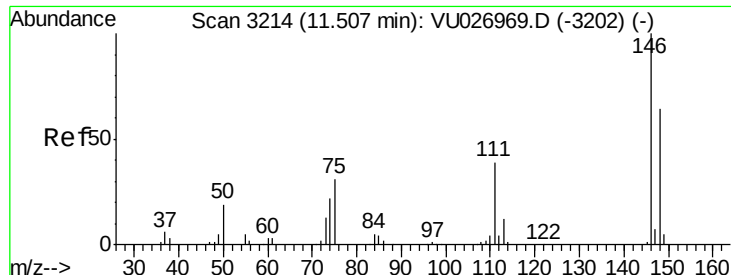
Tgt Ion: 75 Resp: 43976  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 0.0 0.0#  
 89 0.0 0.0 0.0



#87  
 1,3-Dichlorobenzene  
 Concen: 0.256 ug/l  
 RT: 11.51 min Scan# 3215  
 Delta R.T. 0.09 min  
 Lab File: VU026989.D  
 Acq: 21 Sep 2018 23:58

Tgt Ion: 146 Resp: 648  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 20.8 62.2#  
 148 0.0 32.0 96.2#





#88

1,4-Dichlorobenzene

Concen: 0.235 ug/l

RT: 11.51 min Scan# 3215

Delta R.T. 0.00 min

Lab File: VU026989.D

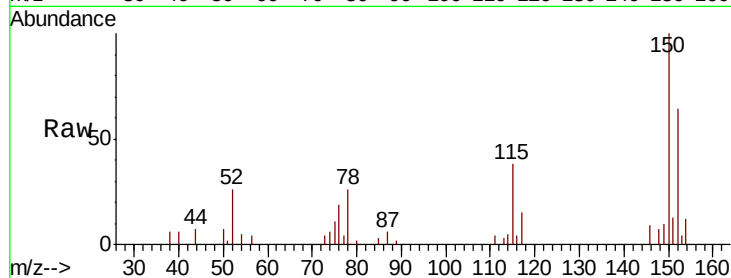
Acq: 21 Sep 2018 23:58

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ138I1-20180911



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 648   |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 0.0   | 20.3  | 60.9# |
| 148      | 0.0   | 31.9  | 95.9# |

