

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\  
 Data File : VU025749.D  
 Acq On : 31 Jul 2018 19:18  
 Operator : MD/SY  
 Sample : J4226-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 STORAGE BLANK-SOILREF-6

Quant Time: Aug 01 05:30:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 16:07:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 200792   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 313836   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 308139   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 184943   | 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   | 152799   | 48.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.68% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 128828   | 47.20 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.40% |          |
| 50) Toluene-d8              | 7.57  | 98   | 458396   | 47.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.98% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 177856   | 47.97 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.94% |          |

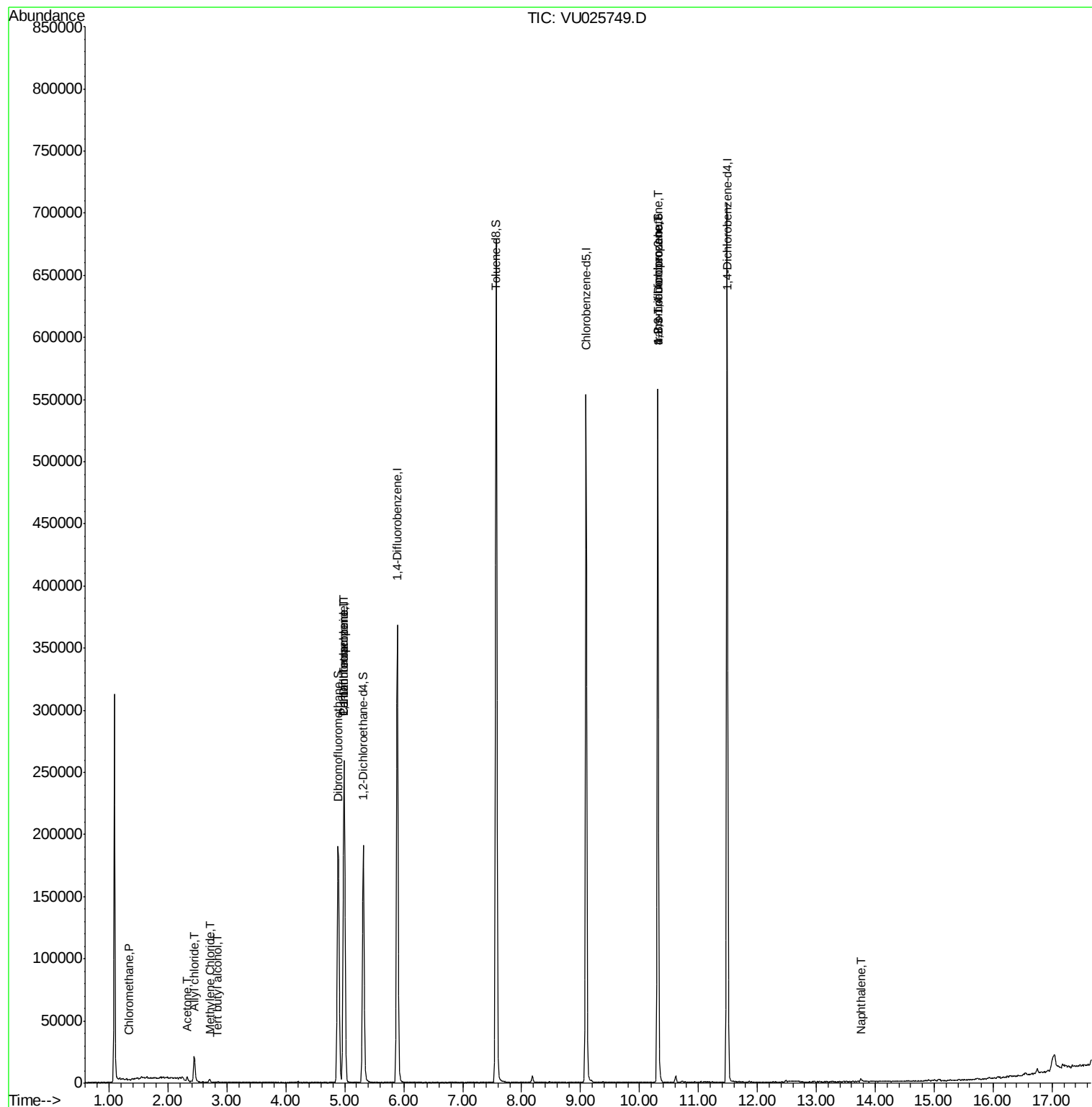
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 600      | 0.21      | ug/l   | 95     |
| 11) Tert butyl alcohol         | 2.83  | 59   | 138      | 0.20      | ug/l # | 73     |
| 13) Acrolein                   | 2.19  | 56   | 19       | Below Cal | #      | 1      |
| 14) Allyl chloride             | 2.44  | 41   | 2158     | 0.56      | ug/l # | 75     |
| 16) Acetone                    | 2.32  | 43   | 3983     | 2.61      | ug/l   | 98     |
| 20) Methylene Chloride         | 2.71  | 84   | 1151     | 0.43      | ug/l # | 86     |
| 31) Cyclohexane                | 4.99  | 56   | 3667     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 14028    | 3.82      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 19681    | 4.74      | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 91117    | 22.36     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 91117    | 56.07     | ug/l # | 100    |
| 95) Naphthalene                | 13.76 | 128  | 3915     | 1.53      | ug/l # | 83     |

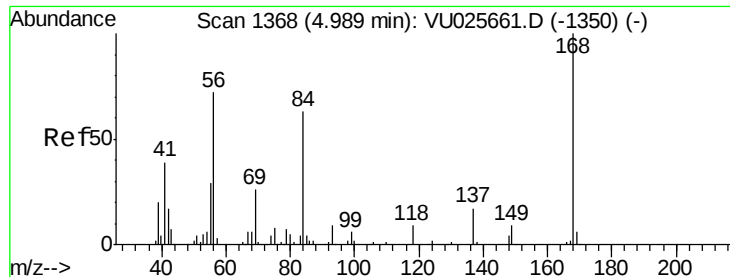
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Jul 31 16:07:47 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025749.D

Acq: 31 Jul 2018 19:18

Instrument :

MSVOA\_U

ClientSampleId :

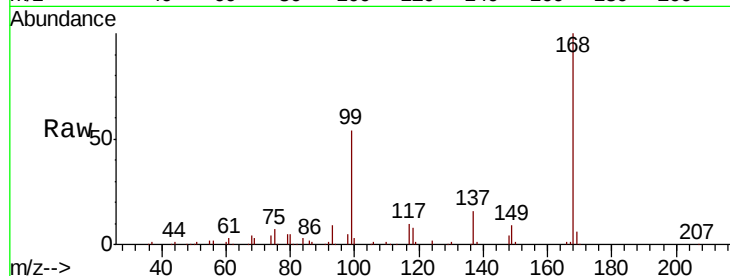
STORAGEBLANK-SOILREF-6

Tot Ion:168 Resp: 200792

Ion Ratio Lower Upper

168 100

99 54.1 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)

4.99

100000

80000

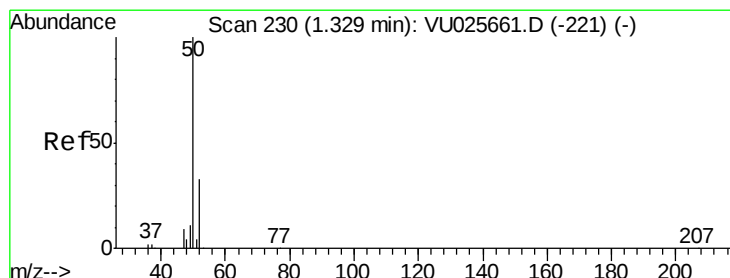
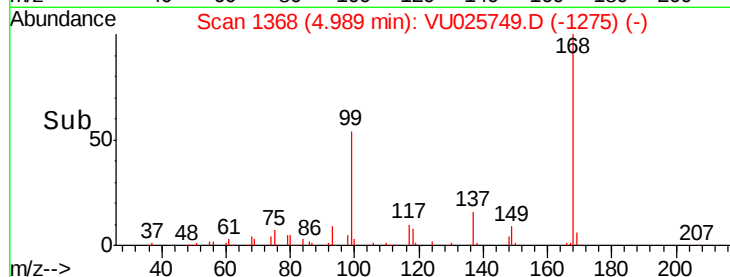
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025749.D

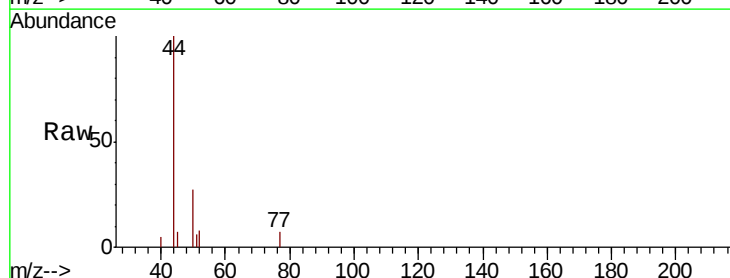
Acq: 31 Jul 2018 19:18

Tgt Ion: 50 Resp: 600

Ion Ratio Lower Upper

50 100

52 30.4 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025661.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025661.D (-221) (-)

1.33

600

500

400

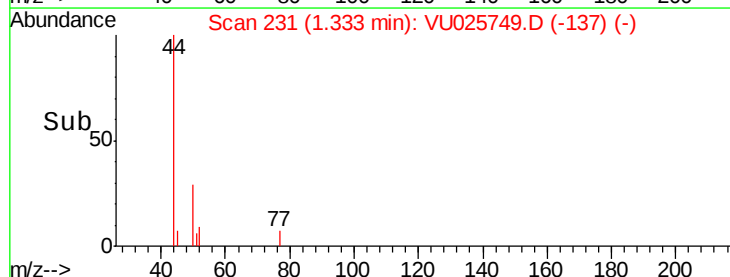
300

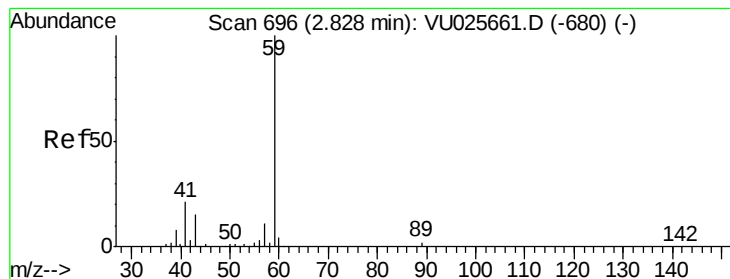
200

100

0

Time-->



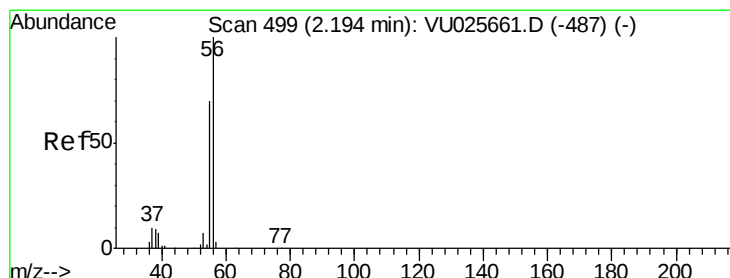
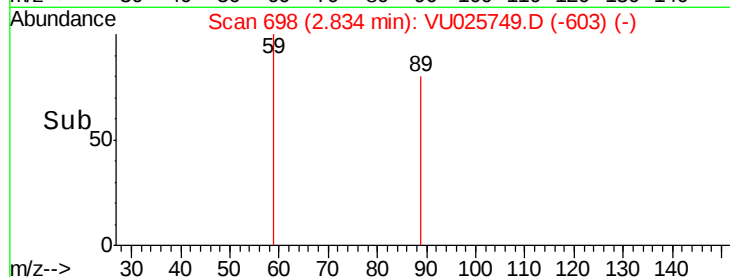
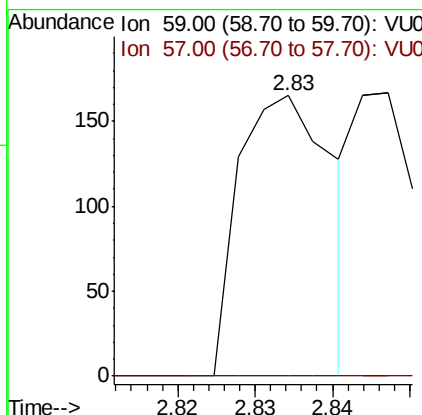
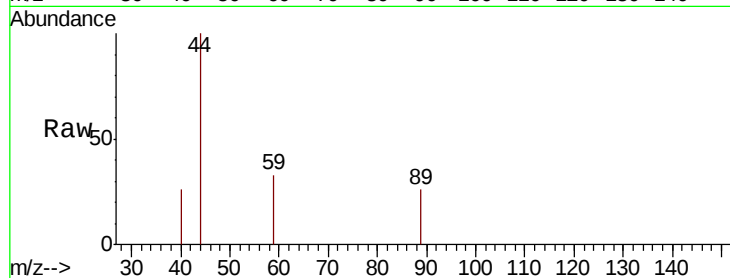


#11

Tert butyl alcohol  
 Concen: 0.20 ug/l  
 RT: 2.83 min Scan# 698  
 Delta R.T. 0.01 min  
 Lab File: VU025749.D  
 Acq: 31 Jul 2018 19:18

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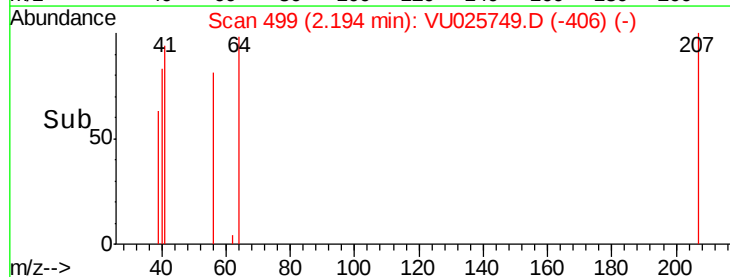
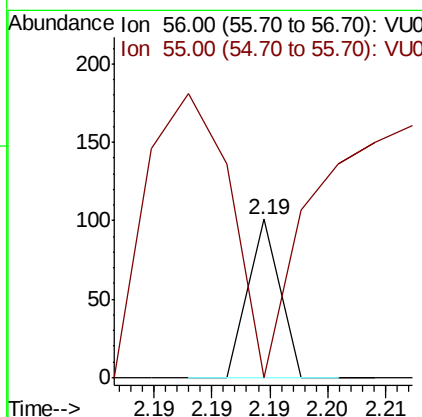
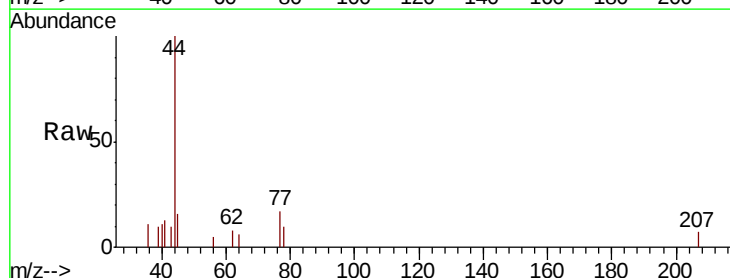
Tot Ion: 59 Resp: 138  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.2#

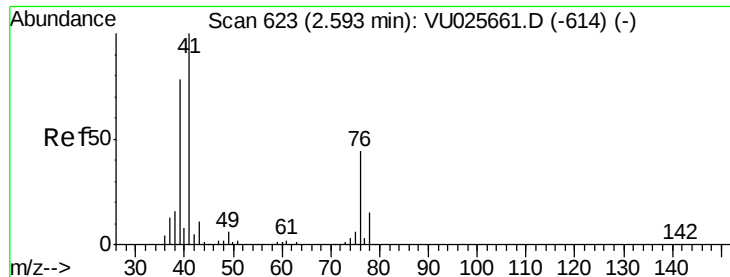


#13

Acrolein  
 Concen: Below Cal  
 RT: 2.19 min Scan# 499  
 Delta R.T. 0.00 min  
 Lab File: VU025749.D  
 Acq: 31 Jul 2018 19:18

Tgt Ion: 56 Resp: 19  
 Ion Ratio Lower Upper  
 56 100  
 55 468.4 57.2 85.8#

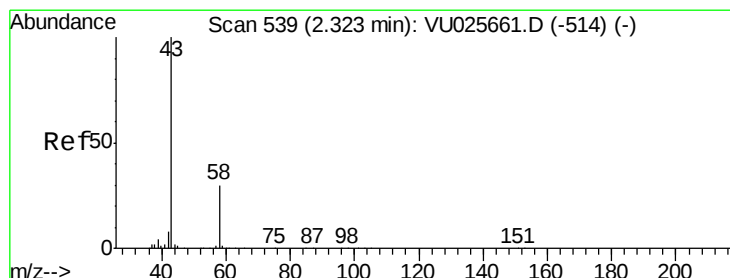
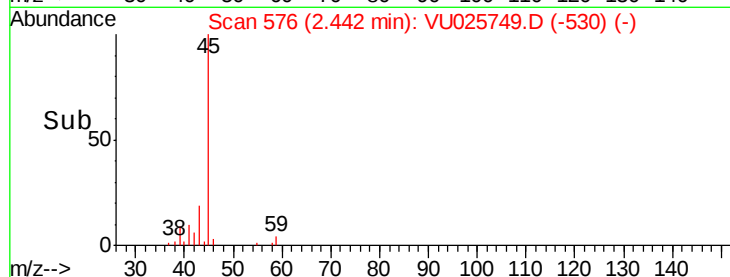
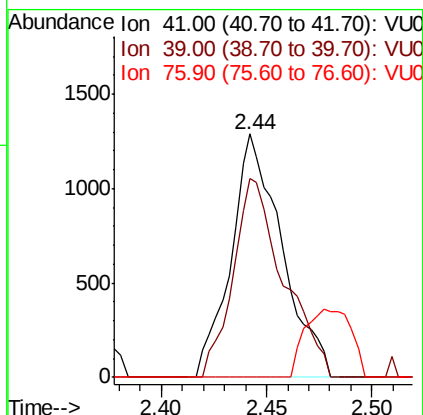
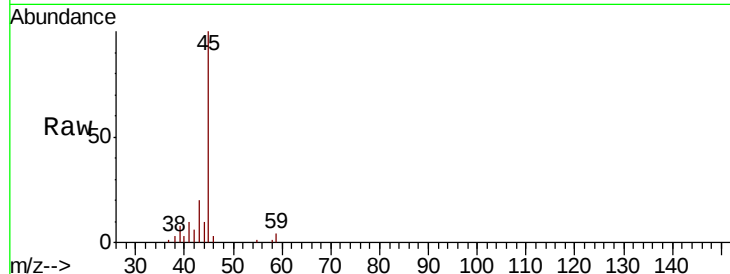




#14  
Allvl chloride  
Concen: 0.56 ug/l  
RT: 2.44 min Scan# 576  
Delta R.T. -0.15 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

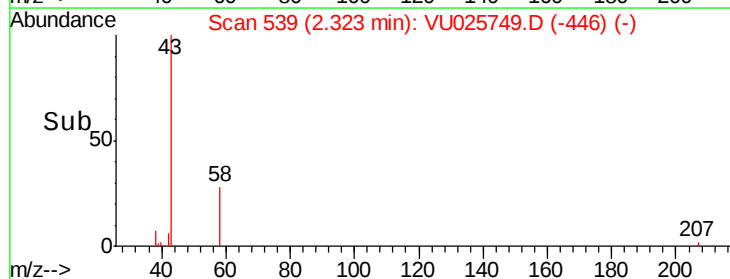
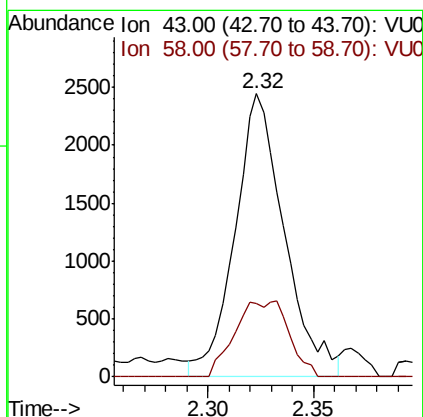
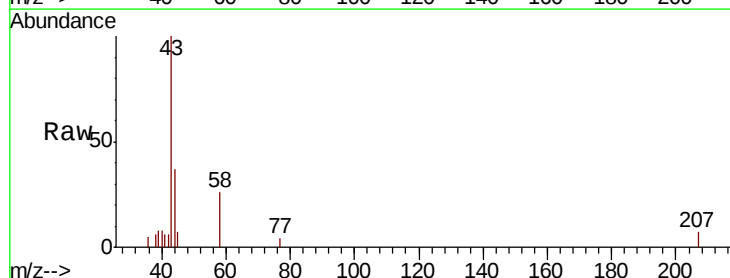
Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGEBLANK-SOILREF-6

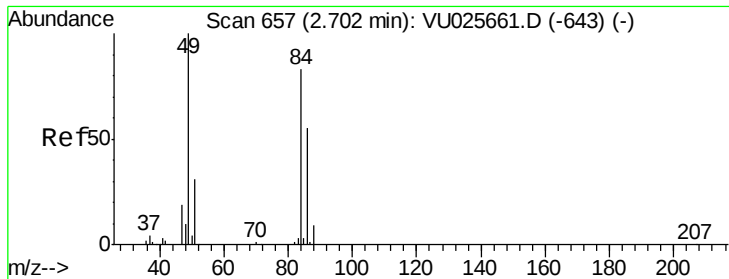
Tot Ion: 41 Resp: 2158  
Ion Ratio Lower Upper  
41 100  
39 80.8 60.6 91.0  
76 0.0 30.5 45.7#



#16  
Acetone  
Concen: 2.61 ug/l  
RT: 2.32 min Scan# 539  
Delta R.T. 0.00 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

Tgt Ion: 43 Resp: 3983  
Ion Ratio Lower Upper  
43 100  
58 27.6 23.1 34.7

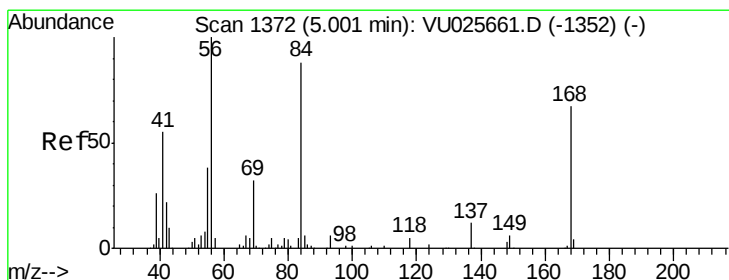
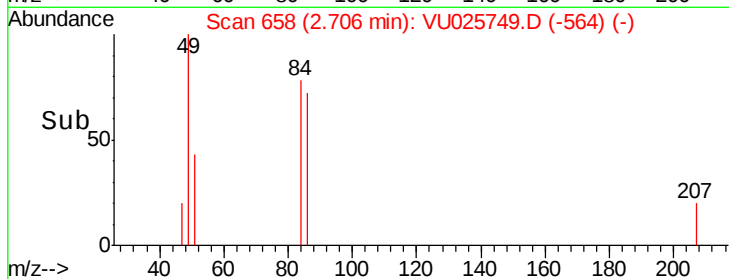
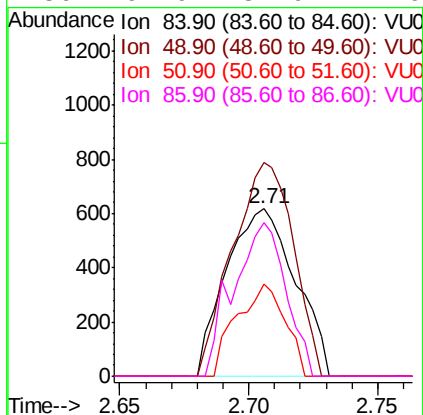
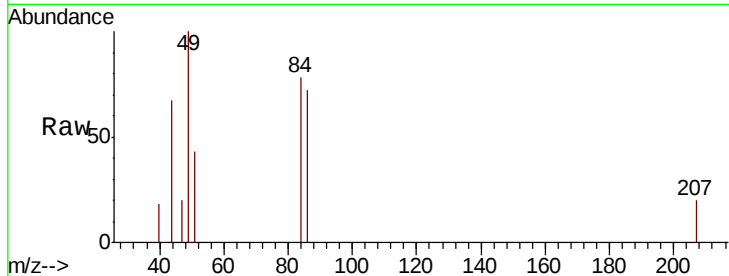




#20  
Methvlene Chloride  
Concen: 0.43 ug/l  
RT: 2.71 min Scan# 658  
Delta R.T. 0.00 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

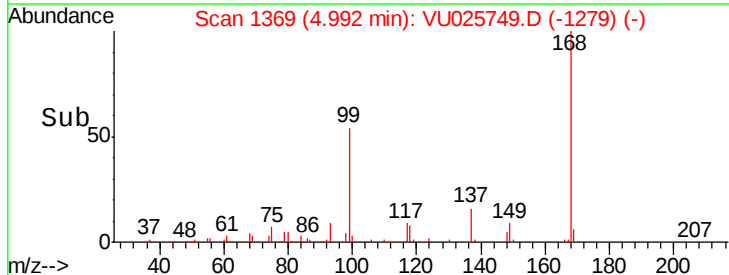
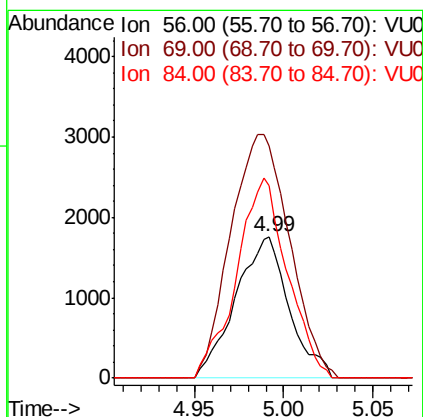
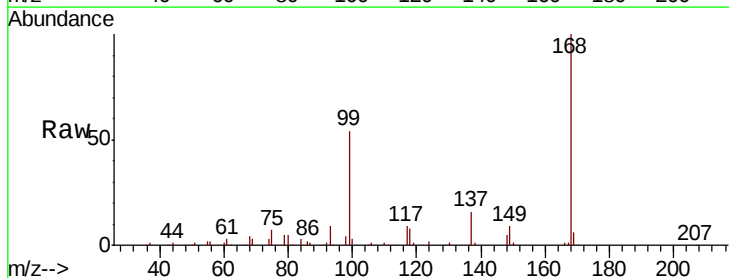
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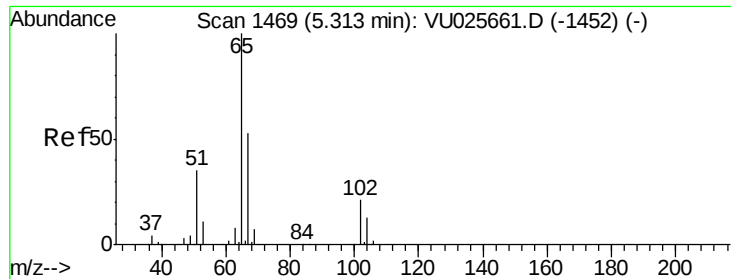
Tot Ion: 84 Resp: 1151  
Ion Ratio Lower Upper  
84 100  
49 127.5 101.8 152.6  
51 54.7 30.8 46.2#  
86 91.9 51.9 77.9#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.99 min Scan# 1369  
Delta R.T. -0.01 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

Tgt Ion: 56 Resp: 3667  
Ion Ratio Lower Upper  
56 100  
69 163.8 26.8 40.2#  
84 135.8 69.7 104.5#

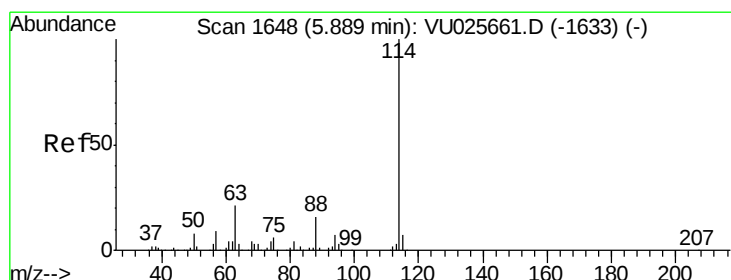
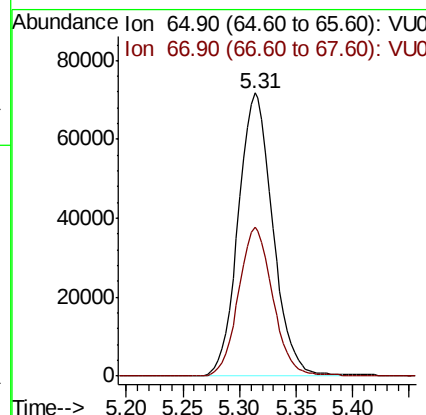
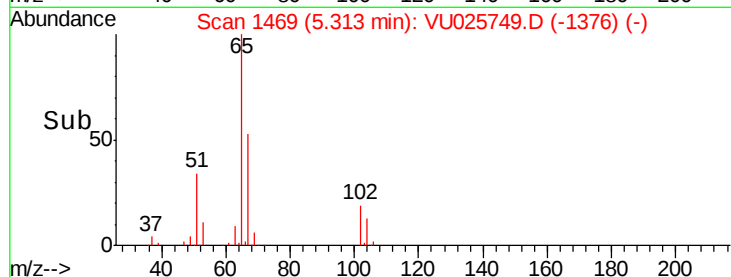
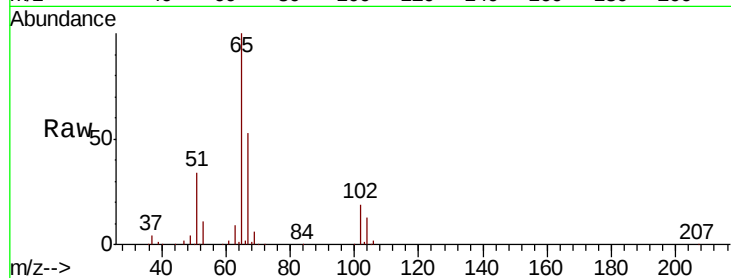




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.84 ug/l  
 RT: 5.31 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VU025749.D  
 Acq: 31 Jul 2018 19:18

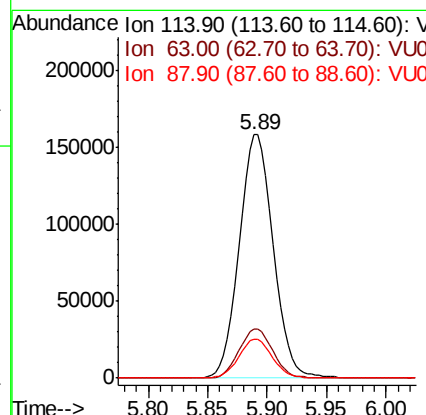
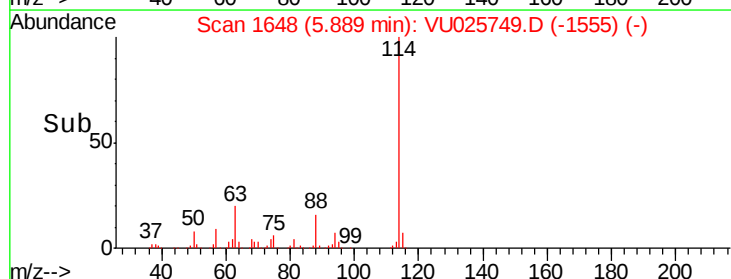
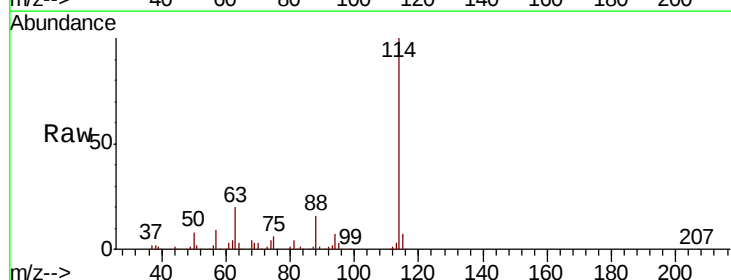
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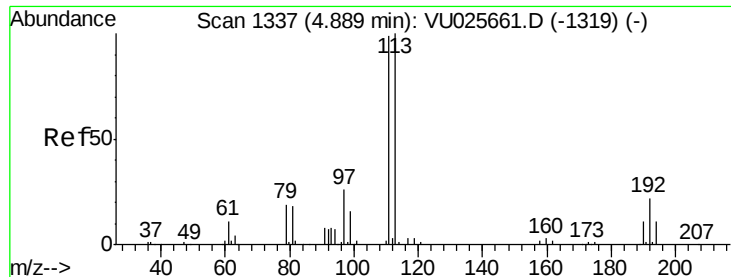
Tot Ion: 65 Resp: 152799  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 103.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.89 min Scan# 1648  
 Delta R.T. 0.00 min  
 Lab File: VU025749.D  
 Acq: 31 Jul 2018 19:18

Tgt Ion: 114 Resp: 313836  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 41.6  
 88 16.1 0.0 32.4

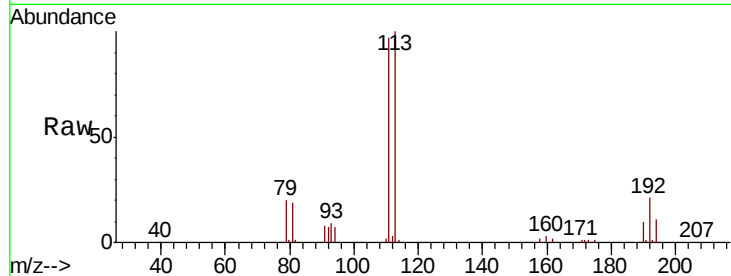




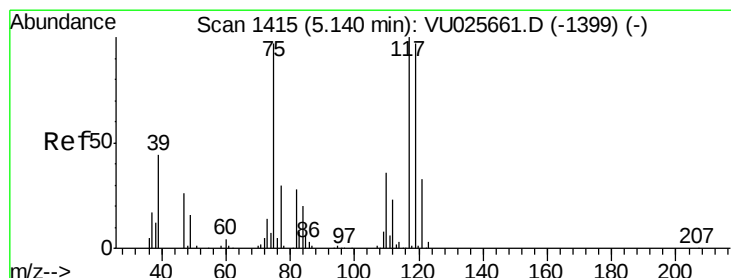
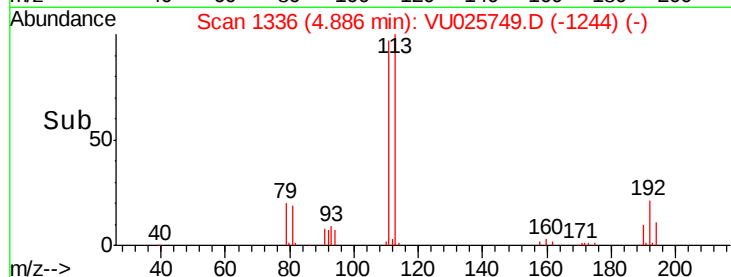
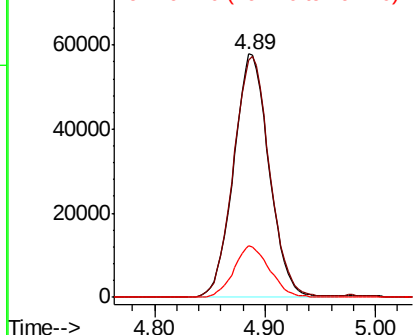
#35  
Dibromofluoromethane  
Concen: 47.20 ug/l  
RT: 4.89 min Scan# 1336  
Delta R.T. -0.00 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGEBLANK-SOILREF-6

Tot Ion:113 Resp: 128828  
Ion Ratio Lower Upper  
113 100  
111 100.6 81.7 122.5  
192 21.3 17.1 25.7

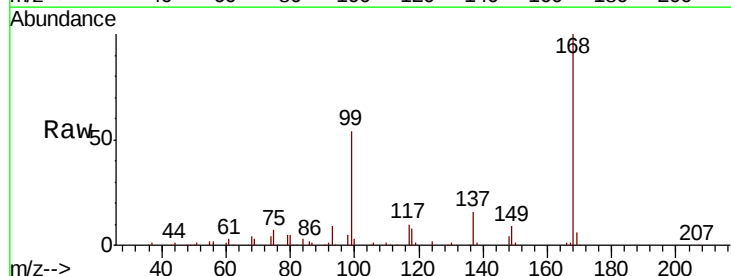


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

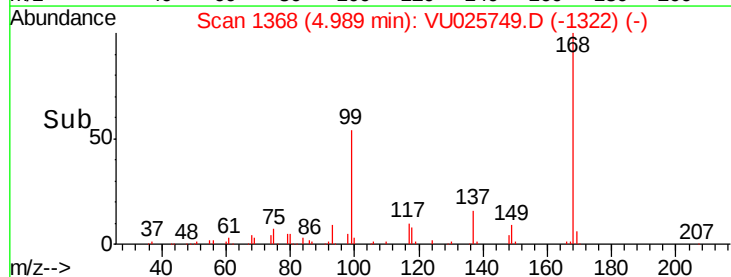
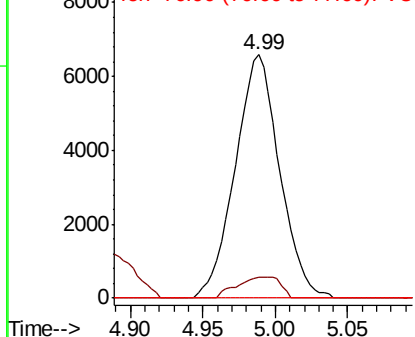


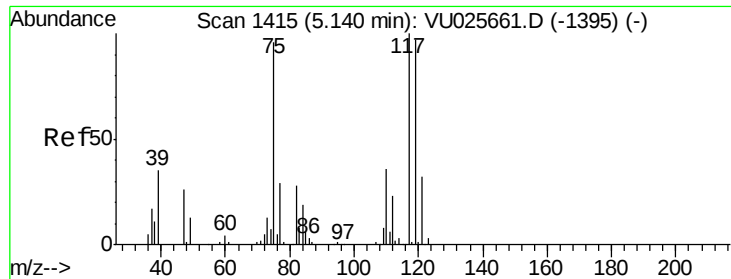
#36  
1,1-Dichloropropene  
Concen: 3.82 ug/l  
RT: 4.99 min Scan# 1368  
Delta R.T. -0.15 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

Tgt Ion: 75 Resp: 14028  
Ion Ratio Lower Upper  
75 100  
110 8.4 17.6 52.9#  
77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.74 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025749.D

Acq: 31 Jul 2018 19:18

Instrument :

MSVOA\_U

ClientSampleId :

STORAGEBLANK-SOILREF-6

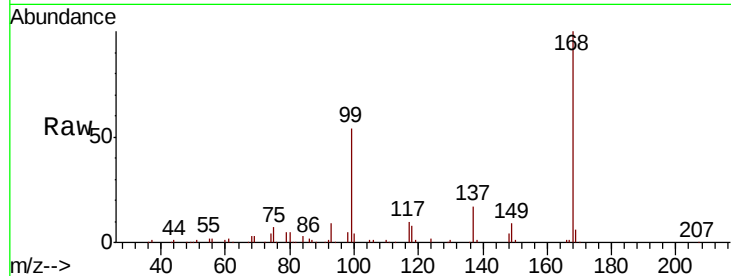
Tot Ion:117 Resp: 19681

Ion Ratio Lower Upper

117 100

119 6.2 75.7 113.5#

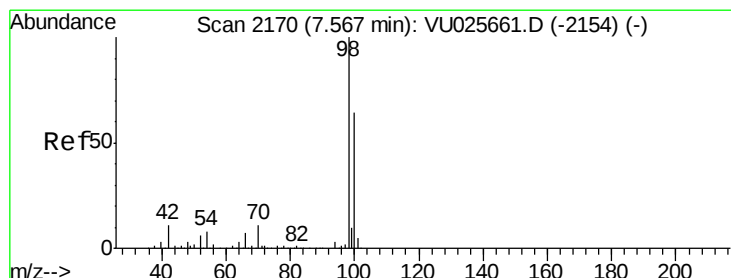
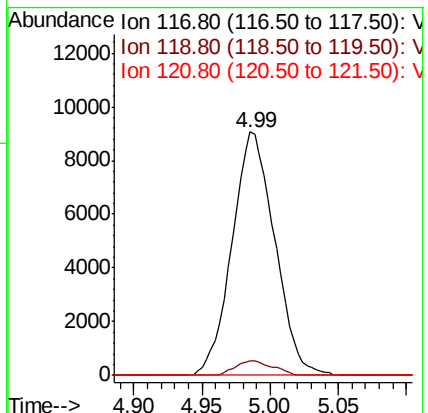
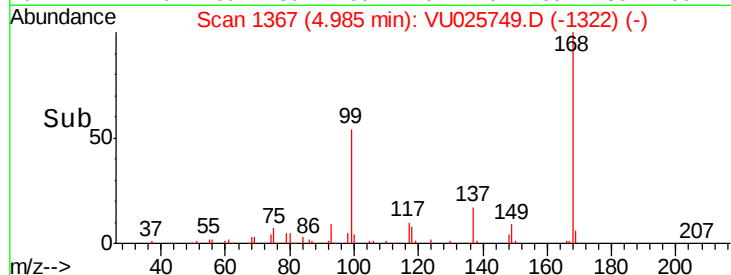
121 0.0 24.6 36.8#



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: 47.99 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025749.D

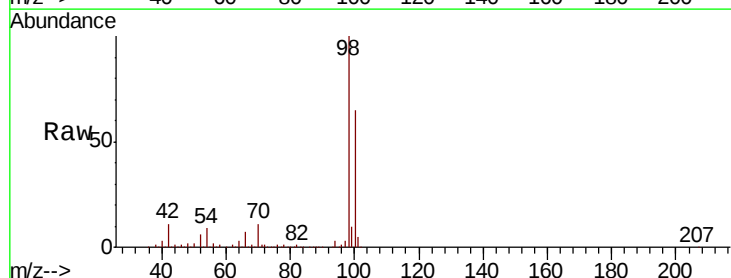
Acq: 31 Jul 2018 19:18

Tgt Ion: 98 Resp: 458396

Ion Ratio Lower Upper

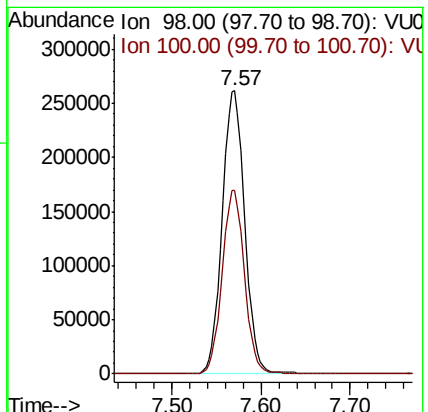
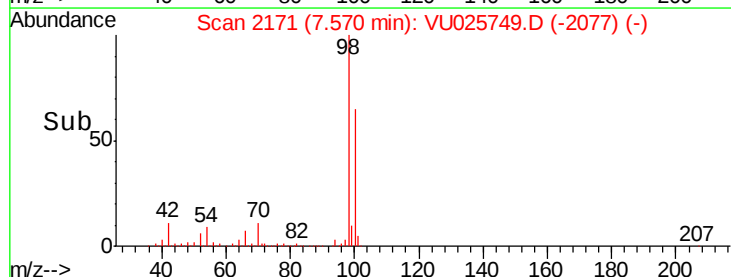
98 100

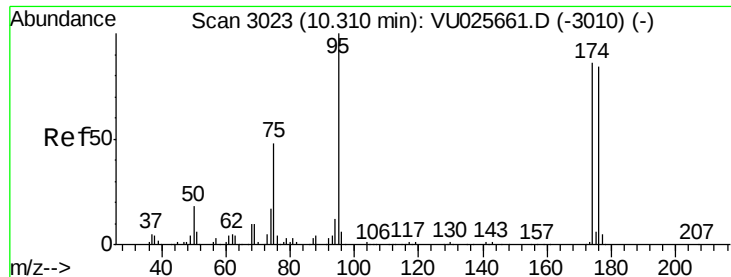
100 64.2 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

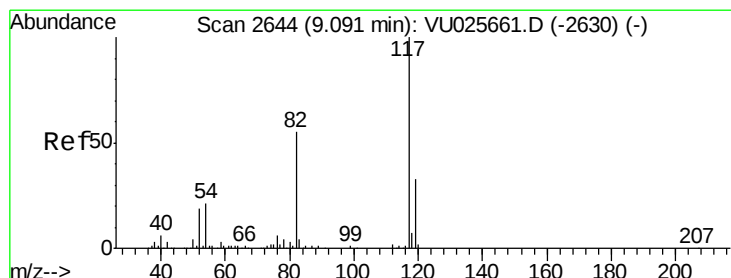
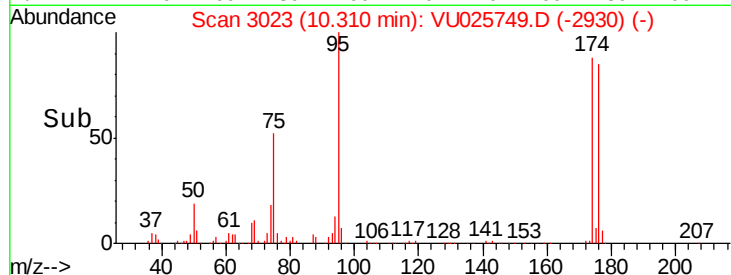
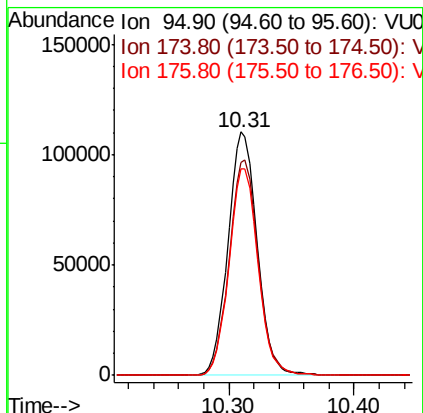
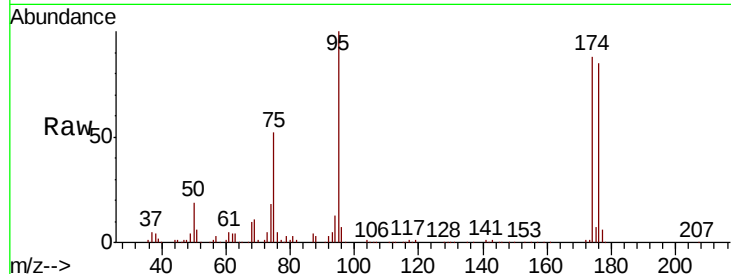




#62  
4-Bromofluorobenzene  
Concen: 47.97 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. 0.00 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

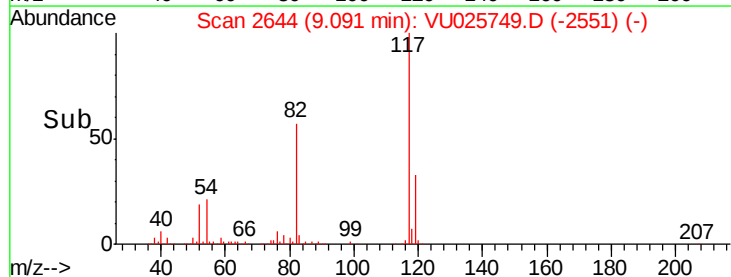
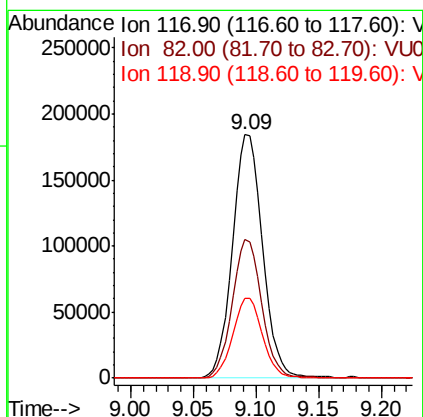
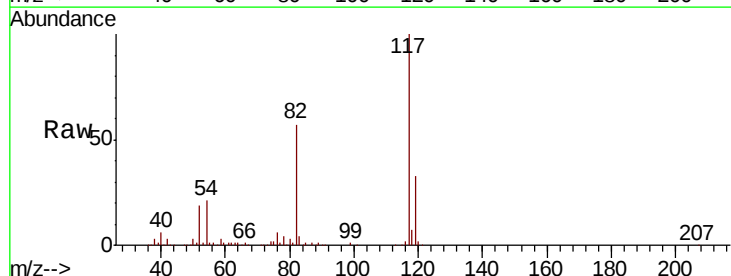
Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGEBLANK-SOILREF-6

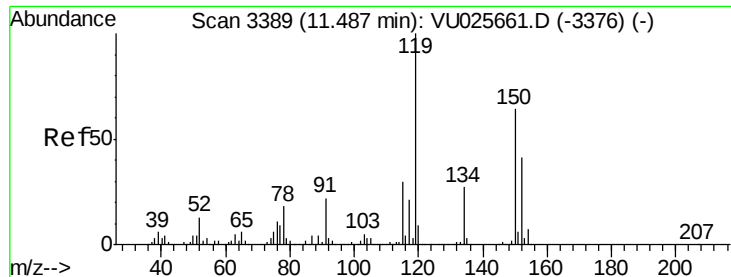
Tot Ion: 95 Resp: 177856  
Ion Ratio Lower Upper  
95 100  
174 88.2 0.0 172.2  
176 84.6 0.0 162.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VU025749.D  
Acq: 31 Jul 2018 19:18

Tgt Ion: 117 Resp: 308139  
Ion Ratio Lower Upper  
117 100  
82 56.7 46.0 69.0  
119 32.7 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025749.D

Acq: 31 Jul 2018 19:18

Instrument :

MSVOA\_U

ClientSampleId :

STORAGEBLANK-SOILREF-6

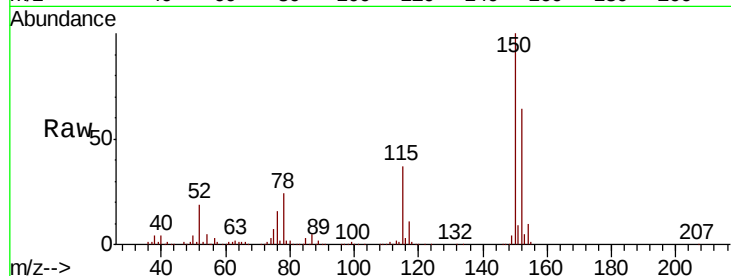
Tot Ion:152 Resp: 184943

Ion Ratio Lower Upper

152 100

115 57.7 40.1 120.3

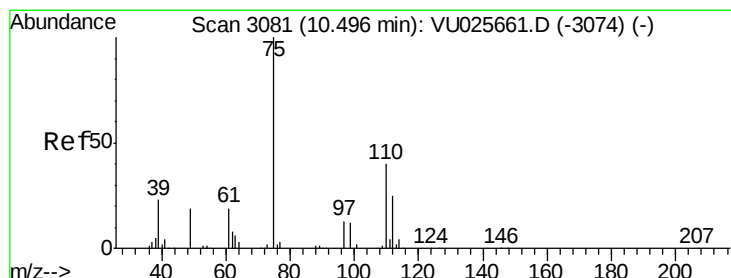
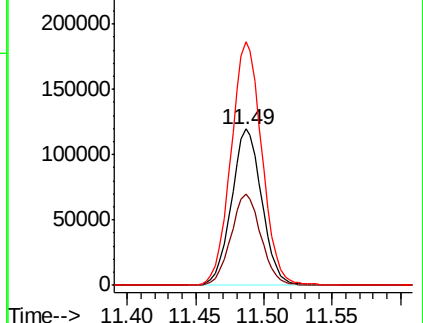
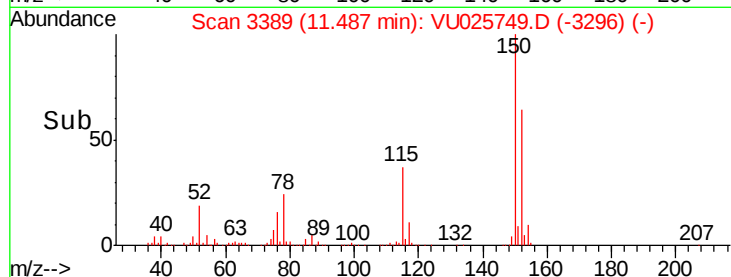
150 158.2 0.0 351.4



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: 22.36 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025749.D

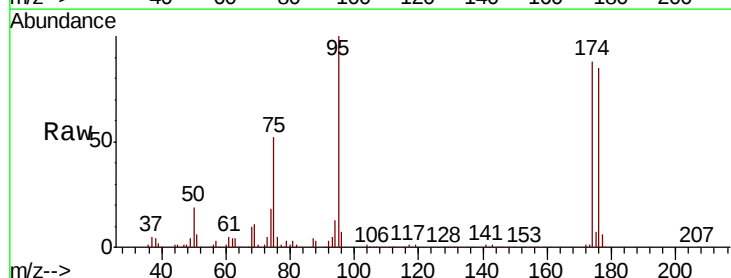
Acq: 31 Jul 2018 19:18

Tgt Ion: 75 Resp: 91117

Ion Ratio Lower Upper

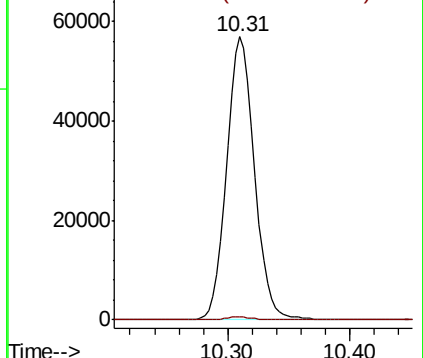
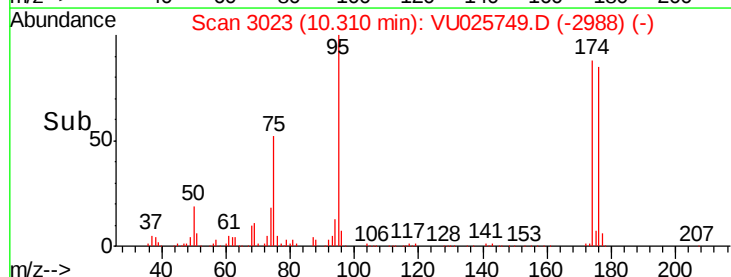
75 100

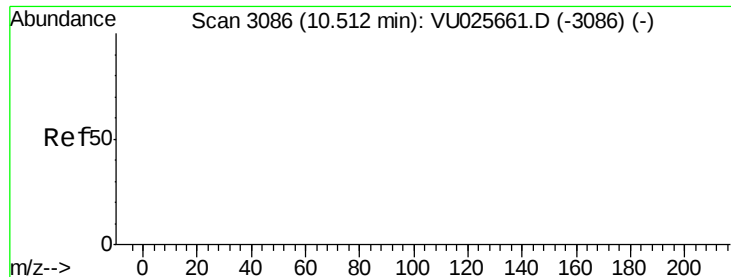
77 1.0 20.4 61.3#



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: 56.07 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025749.D

Acq: 31 Jul 2018 19:18

Instrument :

MSVOA\_U

ClientSampleId :

STORAGEBLANK-SOILREF-6

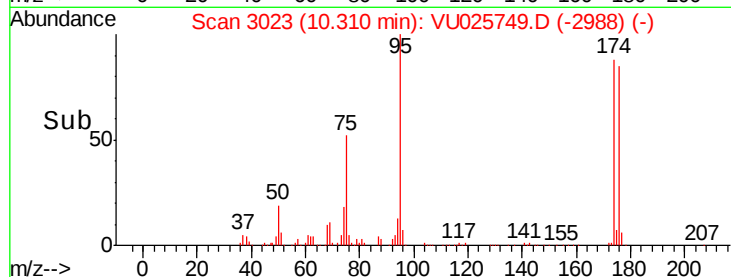
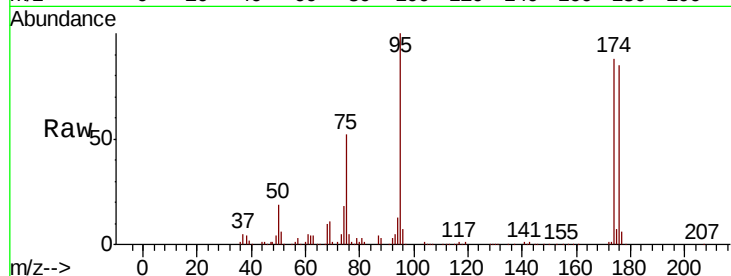
Tot Ion: 75 Resp: 91117

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

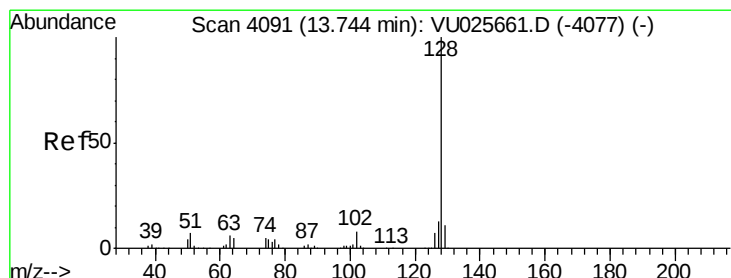
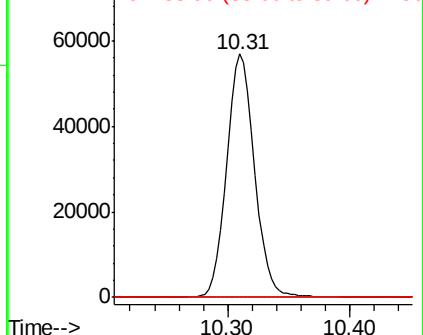
89 0.0 0.0 0.0



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



#95

Naphthalene

Concen: 1.53 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU025749.D

Acq: 31 Jul 2018 19:18

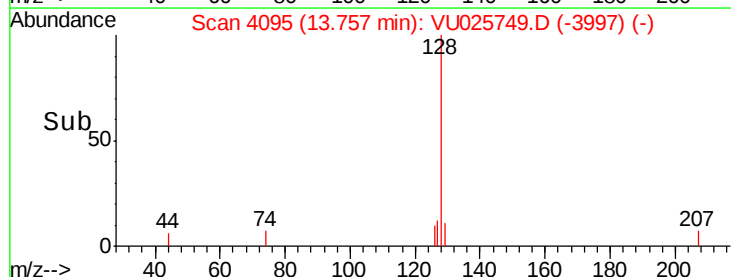
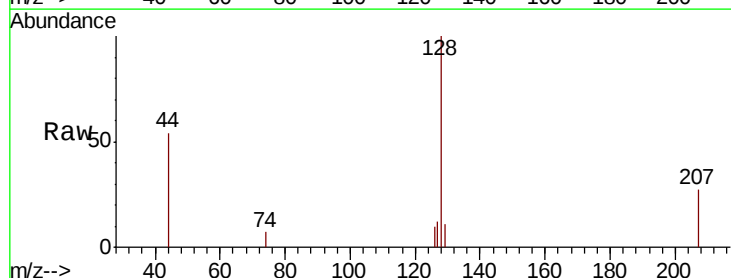
Tgt Ion:128 Resp: 3915

Ion Ratio Lower Upper

128 100

127 5.6 10.5 15.7#

129 5.0 8.3 12.5#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

