

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\  
 Data File : VU027148.D  
 Acq On : 26 Sep 2018 00:09  
 Operator : MD/SY  
 Sample : J4968-03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ181I-20180916

Quant Time: Sep 26 06:02:42 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  | 90749    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 155594   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 150722   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 69187    | 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   | 97906    | 53.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.20% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 66655    | 49.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.84%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 253508   | 49.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.64%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 81123    | 46.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.00%  |          |

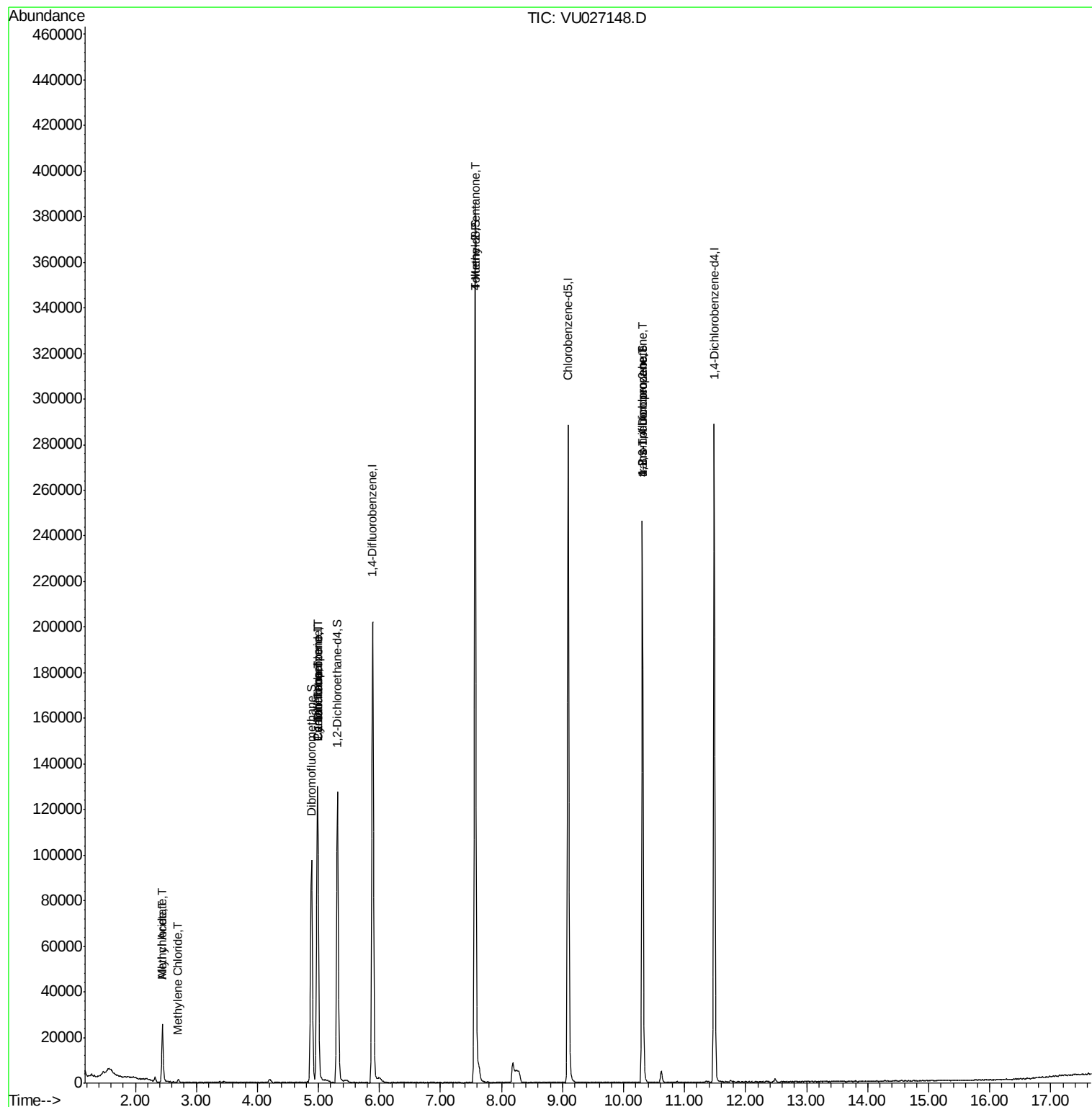
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 14) Allyl chloride             | 2.44  | 41   | 2409     | 0.948     | ug/l # | 67     |
| 16) Acetone                    | 2.32  | 43   | 2460     | Below Cal |        | 91     |
| 18) Methyl Acetate             | 2.44  | 43   | 6376     | 2.453     | ug/l # | 55     |
| 20) Methylene Chloride         | 2.70  | 84   | 576      | 0.352     | ug/l   | 90     |
| 31) Cyclohexane                | 4.98  | 56   | 2418     | 0.317     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 8715     | 4.197     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.98  | 117  | 9470     | 4.792     | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43   | 1237     | 0.449     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 43962    | 20.916    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 43962    | 66.933    | ug/l # | 100    |

(#) = 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: VU027148.D

Acq: 26 Sep 2018 00:09

Instrument :

MSVOA\_U

ClientSampleId :

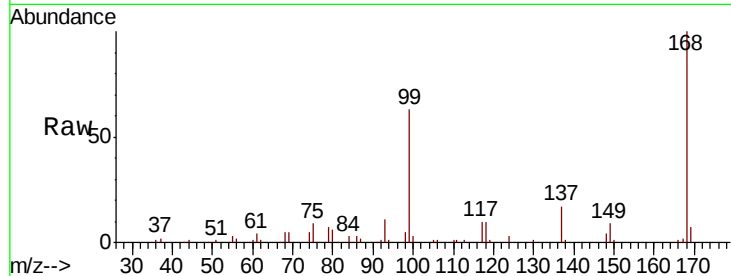
SA-PZ181I-20180916

Tot Ion:168 Resp: 90749

Ion Ratio Lower Upper

168 100

99 62.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

40000

30000

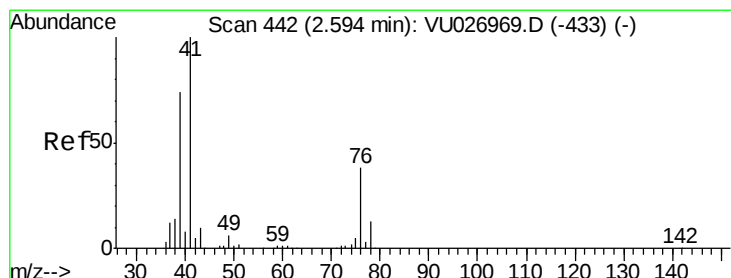
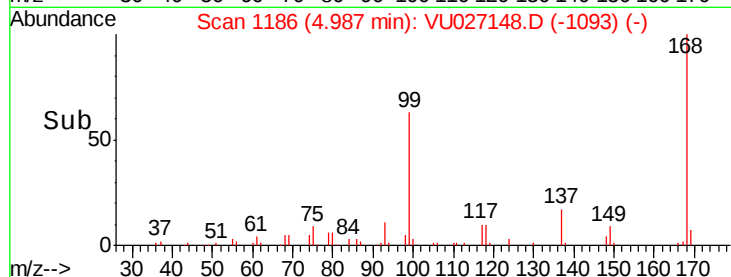
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#14

Allyl chloride

Concen: 0.948 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.15 min

Lab File: VU027148.D

Acq: 26 Sep 2018 00:09

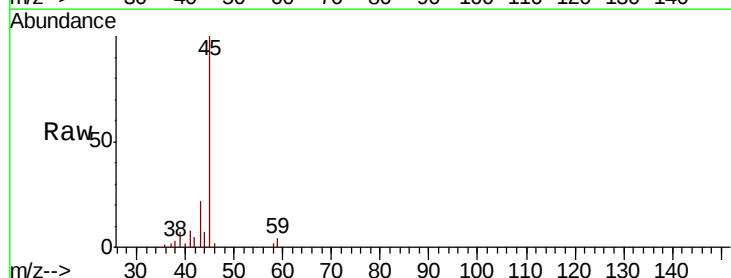
Tgt Ion: 41 Resp: 2409

Ion Ratio Lower Upper

41 100

39 86.6 55.7 83.5#

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-433) (-)

Ion 39.00 (38.70 to 39.70): VU026969.D (-433) (-)

Ion 75.90 (75.60 to 76.60): VU026969.D (-433) (-)

2.44

1500

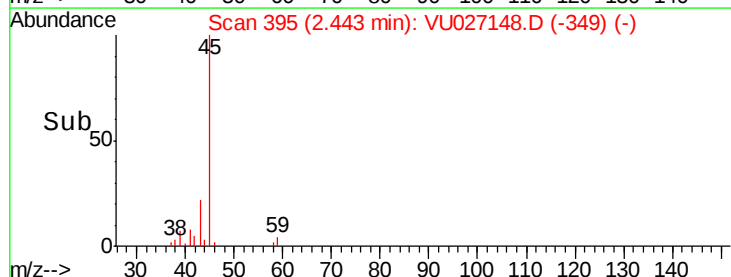
1000

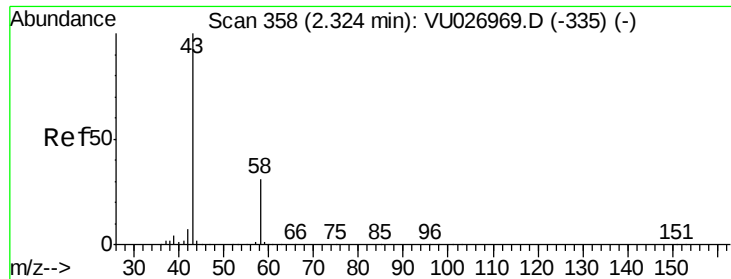
500

0

2.40 2.45 2.50

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027148.D

Acq: 26 Sep 2018 00:09

Instrument :

MSVOA\_U

ClientSampleId :

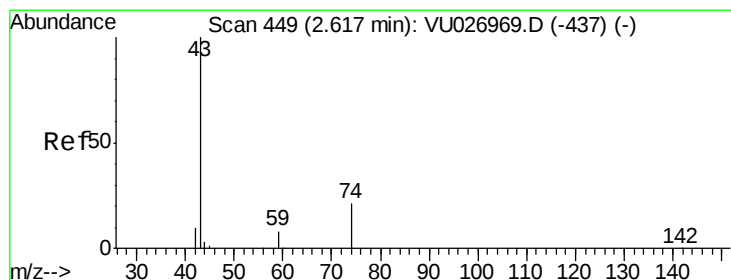
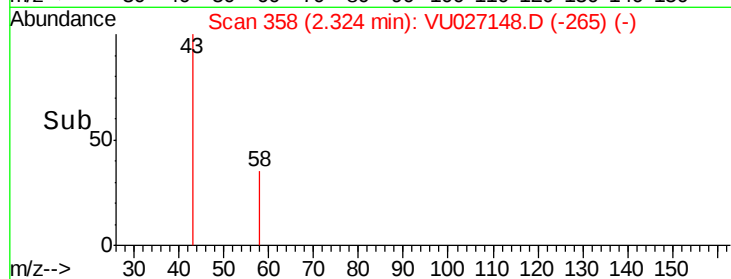
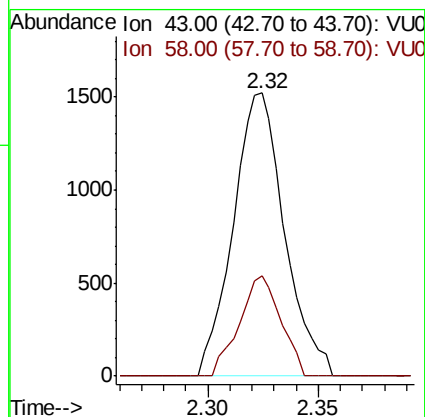
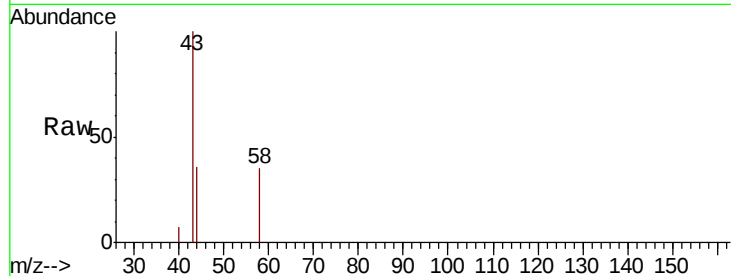
SA-PZ181I-20180916

Tot Ion: 43 Resp: 2460

Ion Ratio Lower Upper

43 100

58 35.4 24.6 36.8



#18

Methyl Acetate

Concen: 2.453 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027148.D

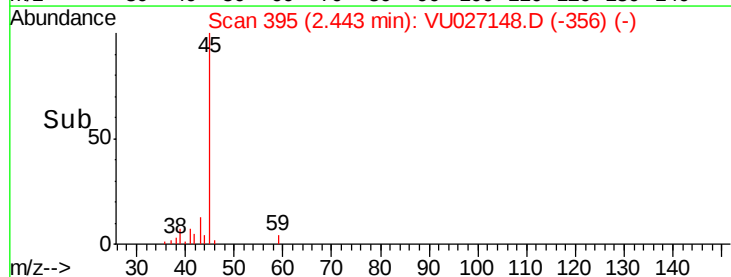
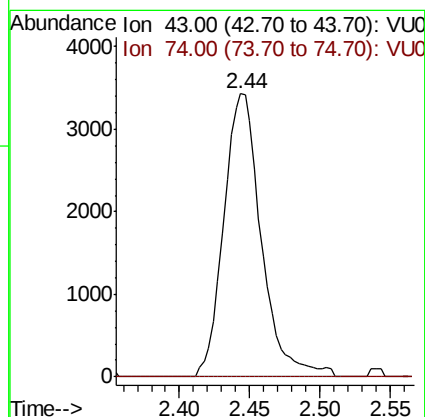
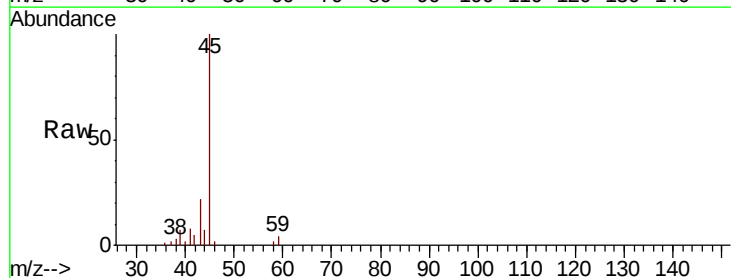
Acq: 26 Sep 2018 00:09

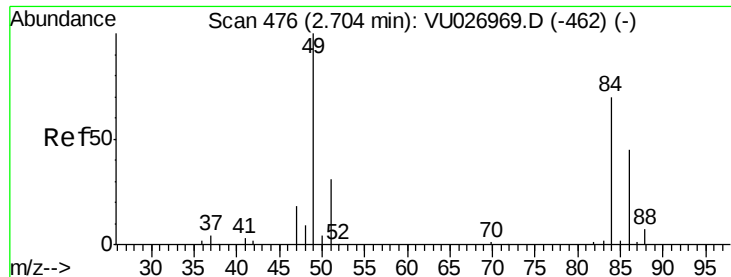
Tgt Ion: 43 Resp: 6376

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#

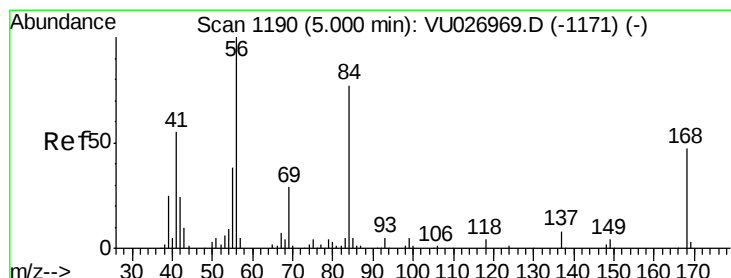
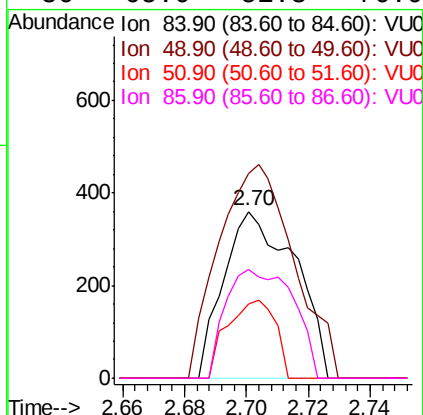
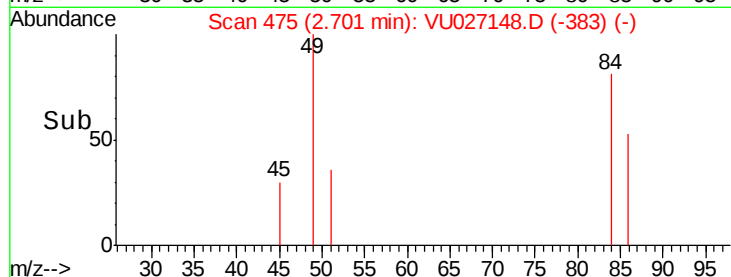
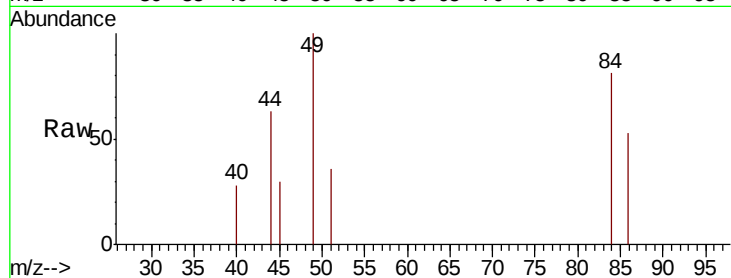




#20  
Methvlene Chloride  
Concen: 0.352 ug/l  
RT: 2.70 min Scan# 475  
Delta R.T. -0.00 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

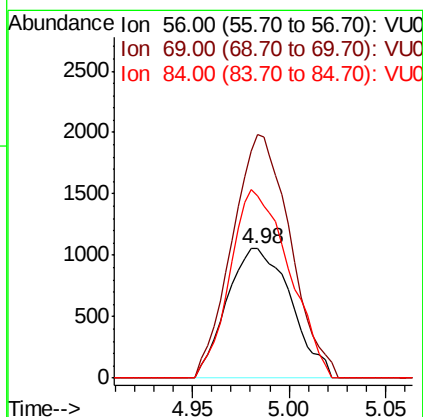
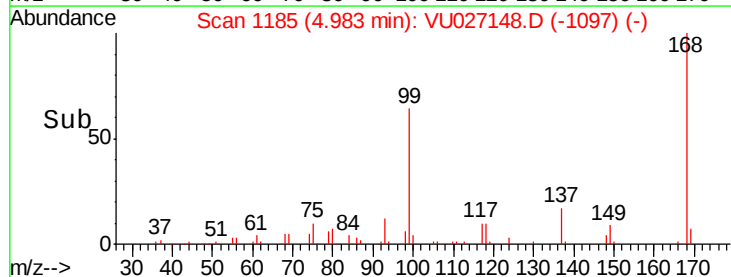
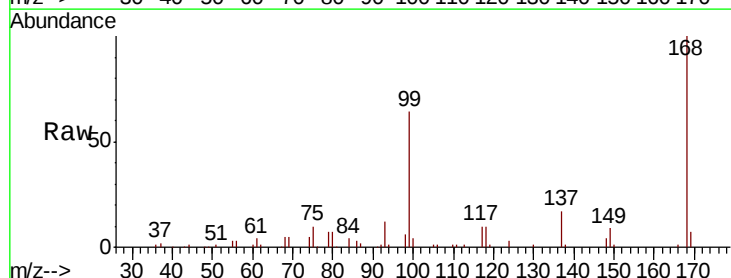
Instrument :  
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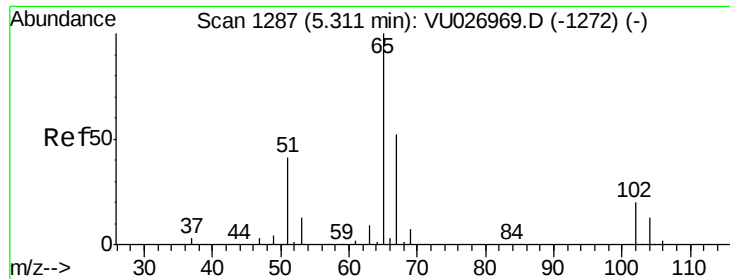
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 576   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.8 | 114.9 | 172.3 |
| 51       | 44.2  | 35.8  | 53.8  |
| 86       | 65.0  | 51.3  | 76.9  |



#31  
Cyclohexane  
Concen: 0.317 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.02 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2418  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 188.0 | 23.0  | 34.4# |
| 84       | 141.0 | 61.4  | 92.2# |

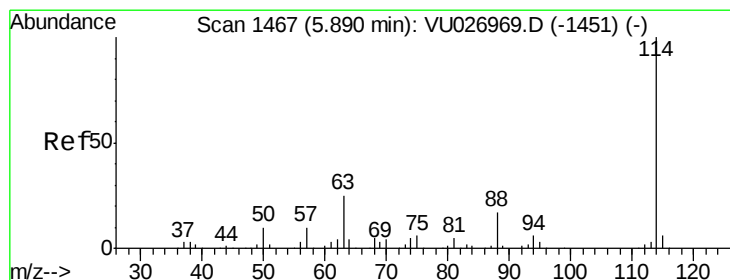
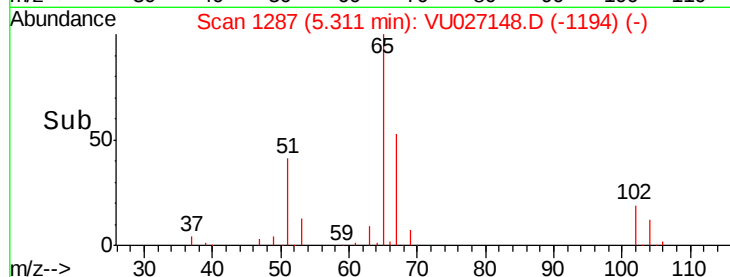
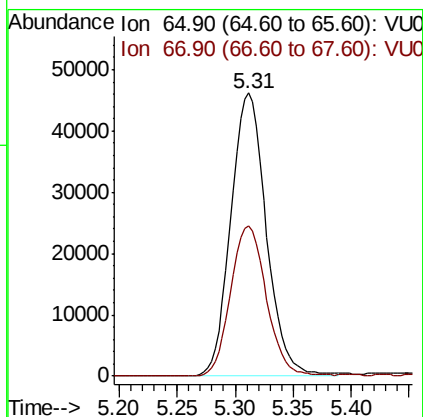
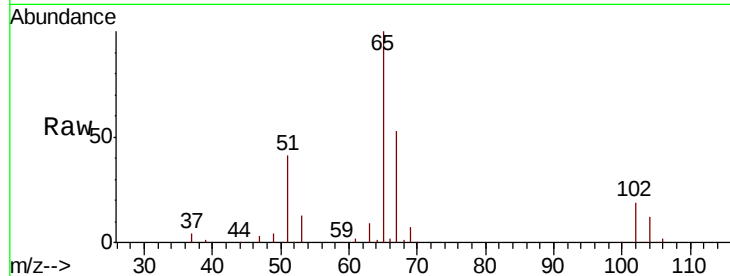




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.604 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. 0.00 min  
 Lab File: VU027148.D  
 Acq: 26 Sep 2018 00:09

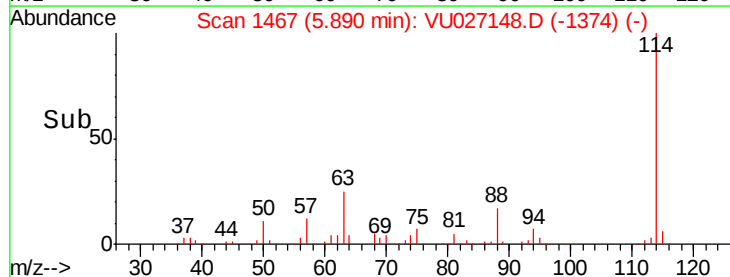
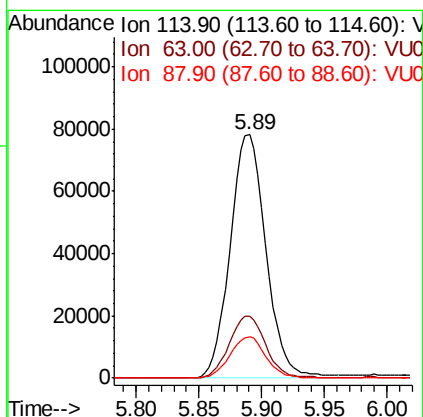
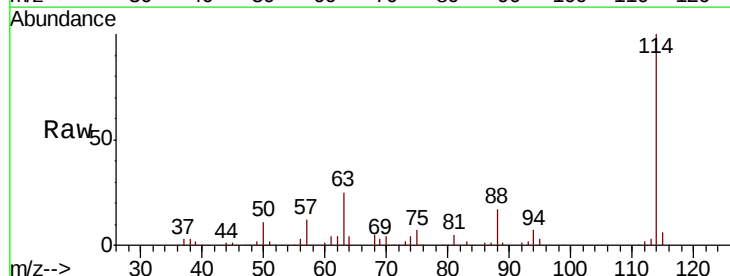
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ181I-20180916

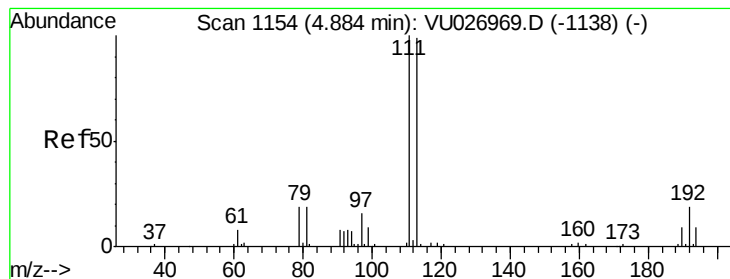
Tot Ion: 65 Resp: 97906  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 105.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027148.D  
 Acq: 26 Sep 2018 00:09

Tgt Ion: 114 Resp: 155594  
 Ion Ratio Lower Upper  
 114 100  
 63 25.4 0.0 49.2  
 88 17.1 0.0 33.8





#35

Dibromofluoromethane

Concen: 49.422 ug/l

RT: 4.89 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VU027148.D

Acq: 26 Sep 2018 00:09

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ181I-20180916

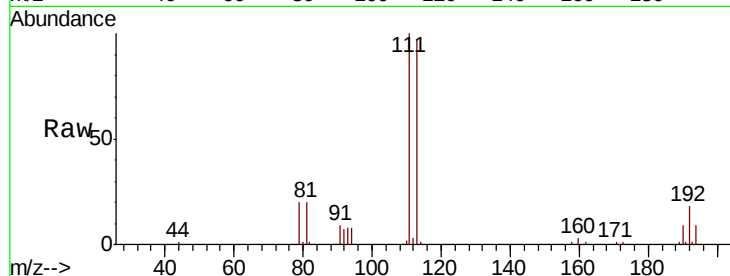
Tot Ion:113 Resp: 66655

Ion Ratio Lower Upper

113 100

111 104.3 82.2 123.4

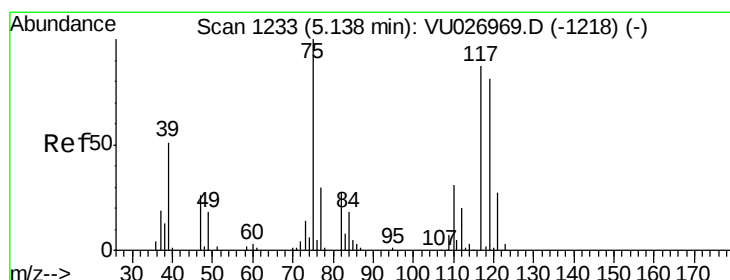
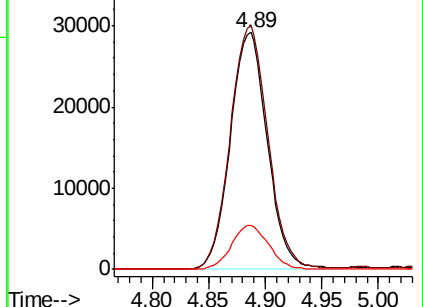
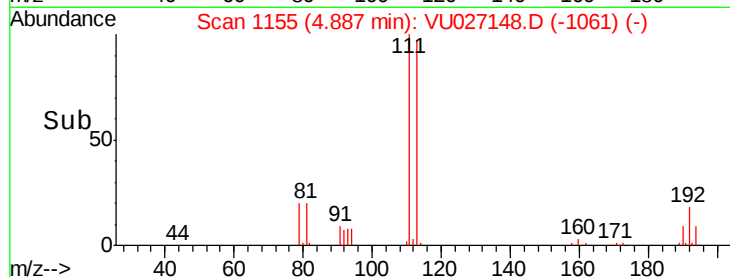
192 18.7 15.2 22.8



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: 4.197 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027148.D

Acq: 26 Sep 2018 00:09

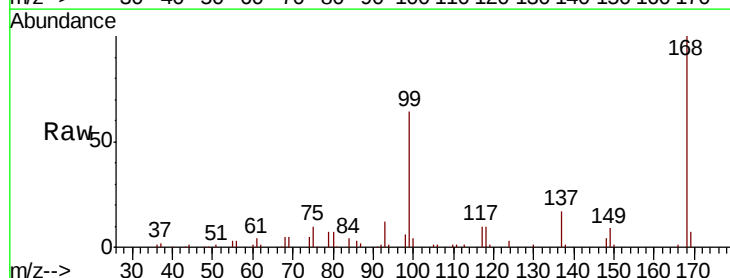
Tgt Ion: 75 Resp: 8715

Ion Ratio Lower Upper

75 100

110 7.7 16.1 48.2#

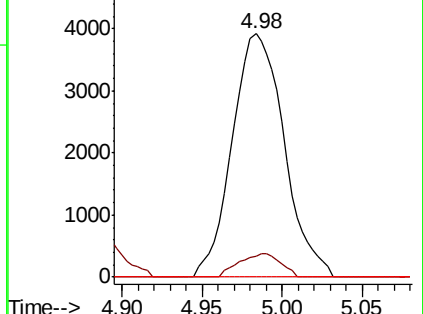
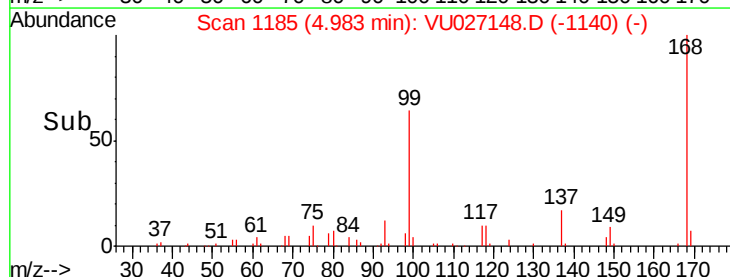
77 0.0 24.6 36.8#

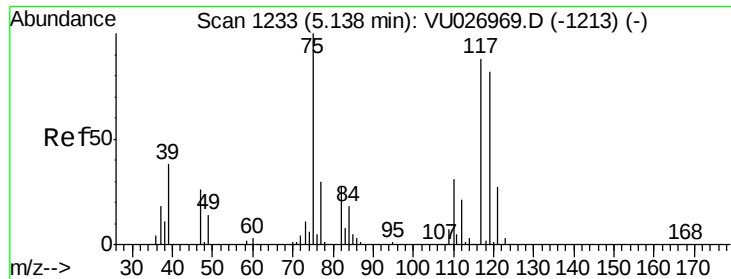


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

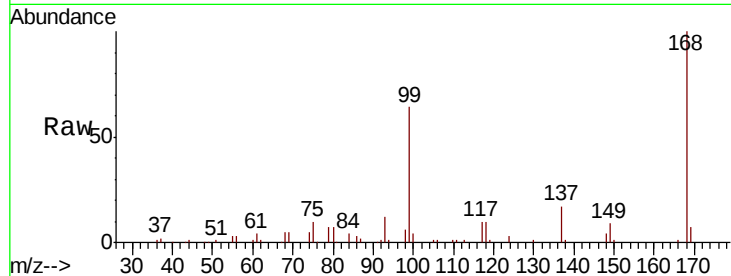




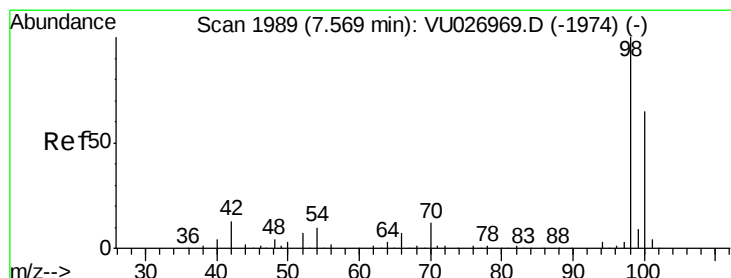
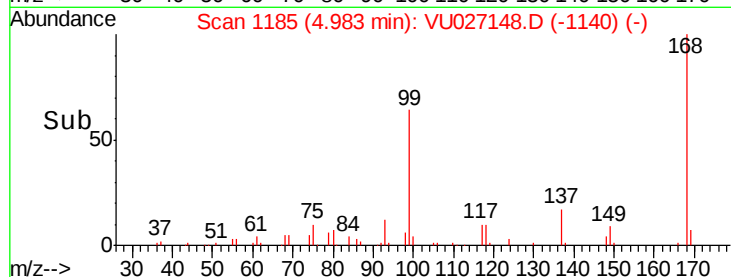
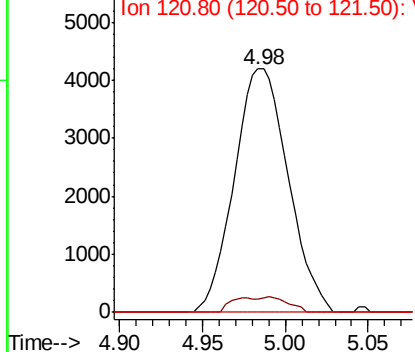
#38  
Carbon Tetrachloride  
Concen: 4.792 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.15 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Tot Ion:117 Resp: 9470  
Ion Ratio Lower Upper  
117 100  
119 5.5 74.4 111.6#  
121 0.0 24.2 36.4#

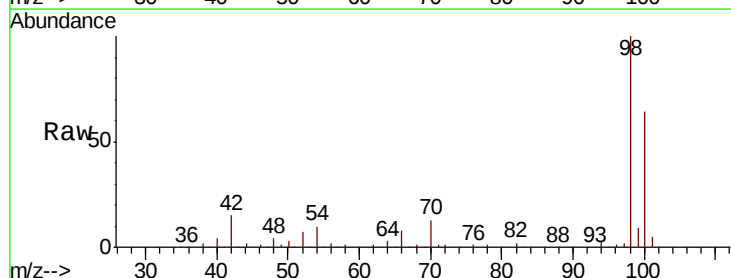


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

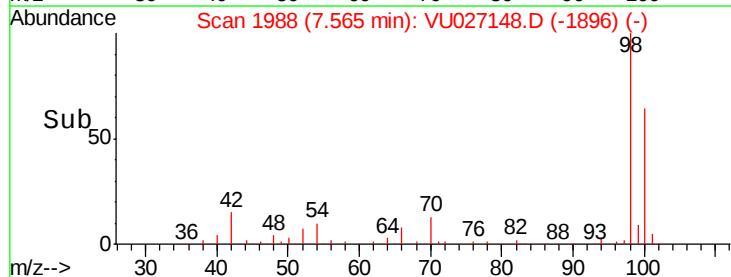
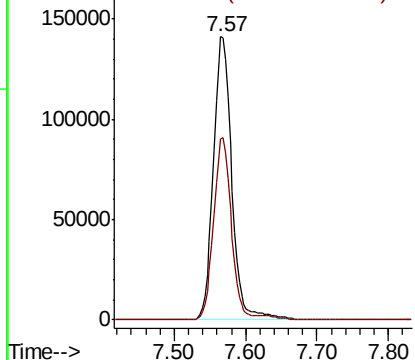


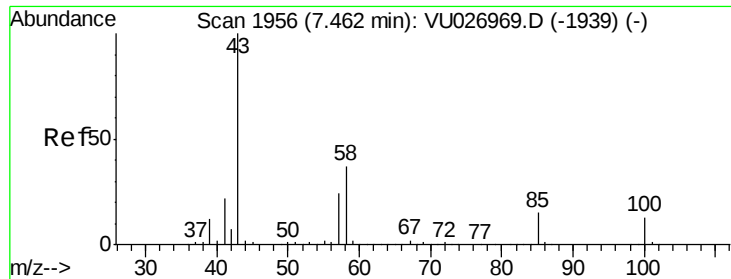
#50  
Toluene-d8  
Concen: 49.321 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

Tgt Ion: 98 Resp: 253508  
Ion Ratio Lower Upper  
98 100  
100 63.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0  
Ion 100.00 (99.70 to 100.70): VU

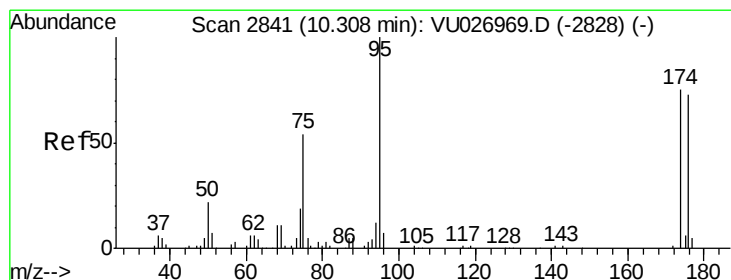
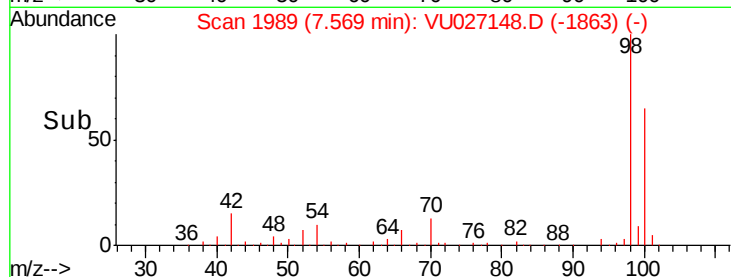
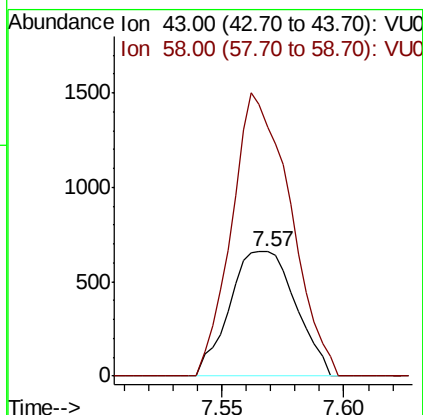
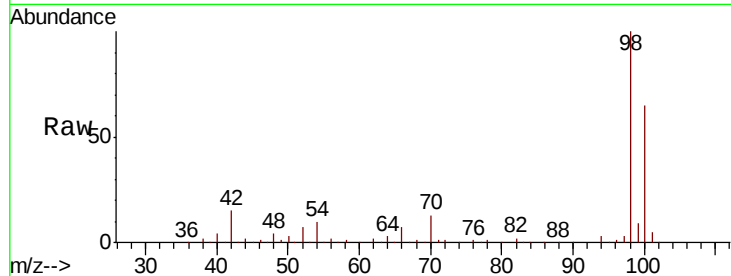




#51  
4-Methyl-2-Pentanone  
Concen: 0.449 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.11 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

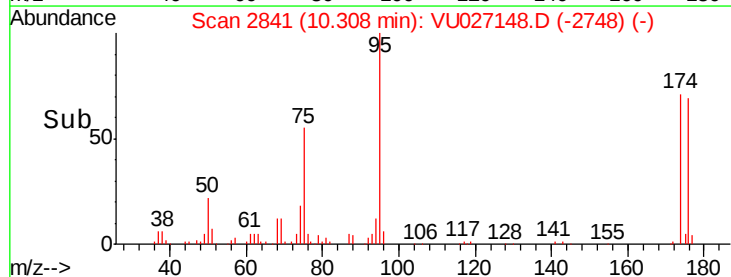
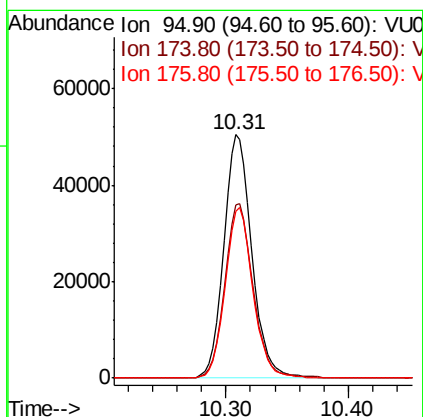
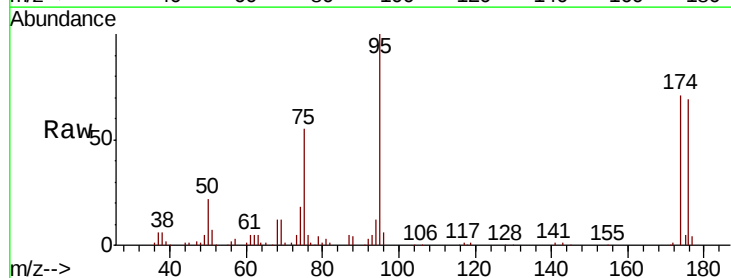
Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ181I-20180916

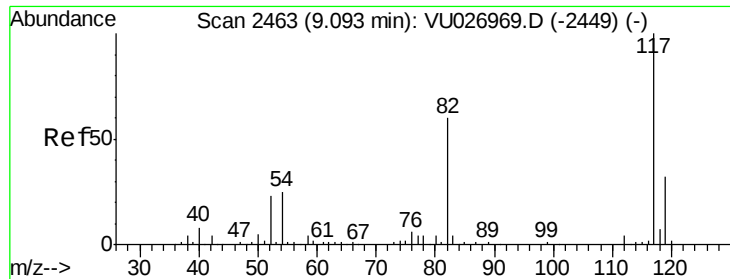
Tot Ion: 43 Resp: 1237  
Ion Ratio Lower Upper  
43 100  
58 202.3 29.8 44.6#



#62  
4-Bromofluorobenzene  
Concen: 45.997 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

Tgt Ion: 95 Resp: 81123  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 150.2  
176 69.6 0.0 145.2

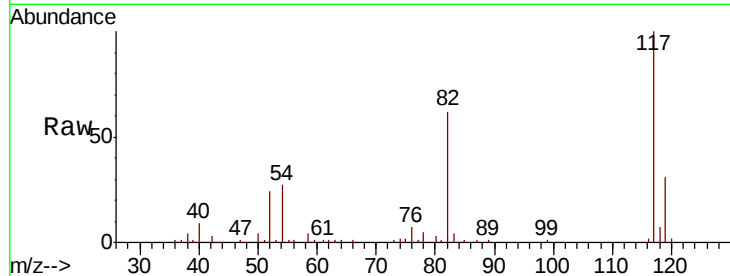




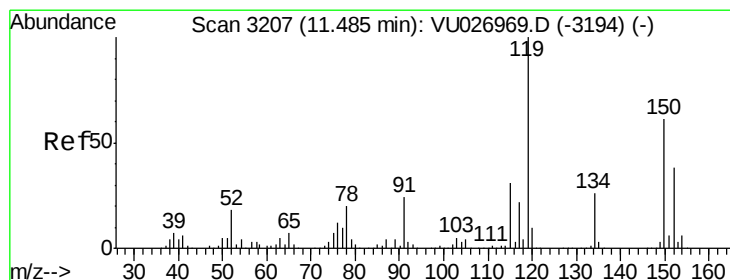
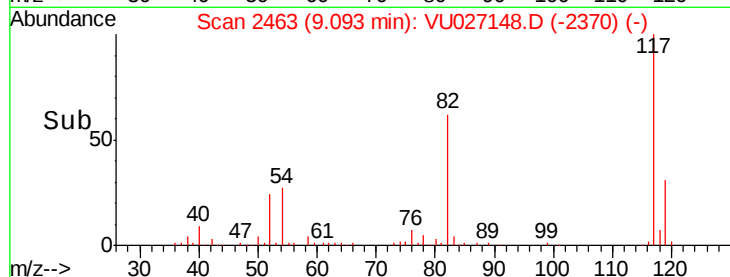
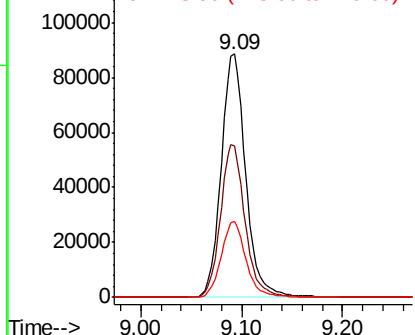
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ181I-20180916

Tot Ion:117 Resp: 150722  
Ion Ratio Lower Upper  
117 100  
82 62.2 48.0 72.0  
119 31.3 25.8 38.8

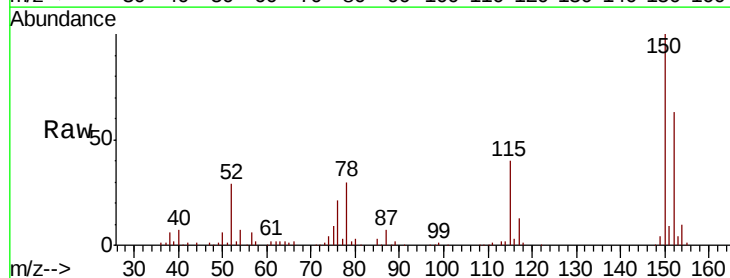


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

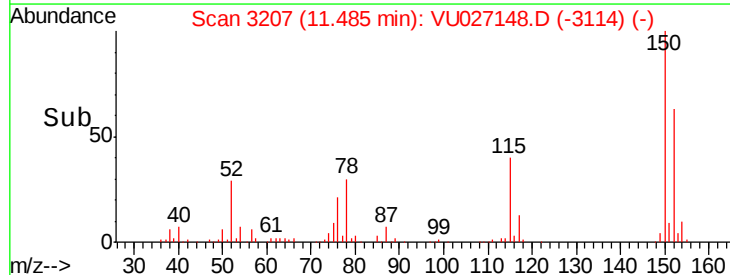
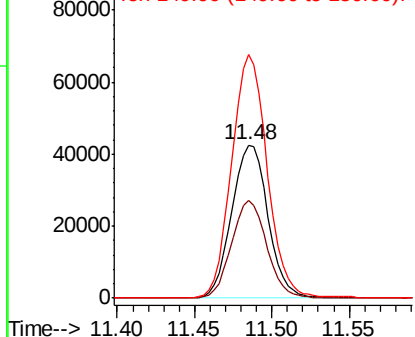


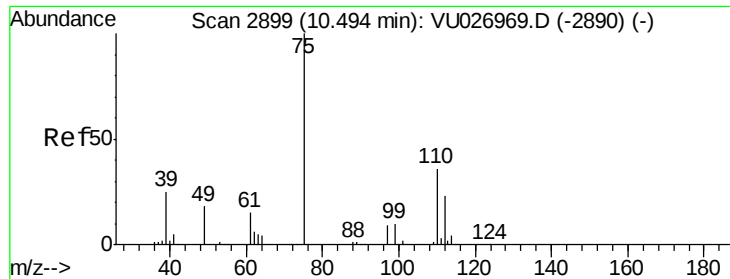
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027148.D  
Acq: 26 Sep 2018 00:09

Tgt Ion:152 Resp: 69187  
Ion Ratio Lower Upper  
152 100  
115 61.7 44.9 134.5  
150 155.7 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: 20.916 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027148.D

Acq: 26 Sep 2018 00:09

Instrument :

MSVOA\_U

ClientSampleId :

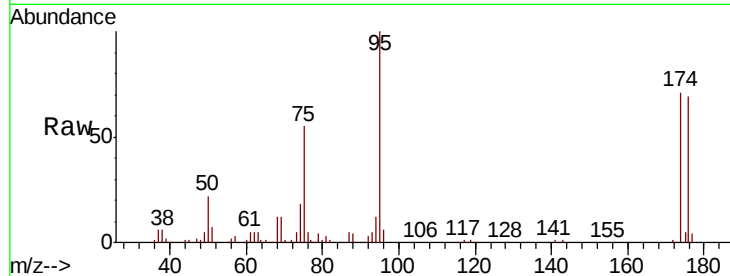
SA-PZ181I-20180916

Tot Ion: 75 Resp: 43962

Ion Ratio Lower Upper

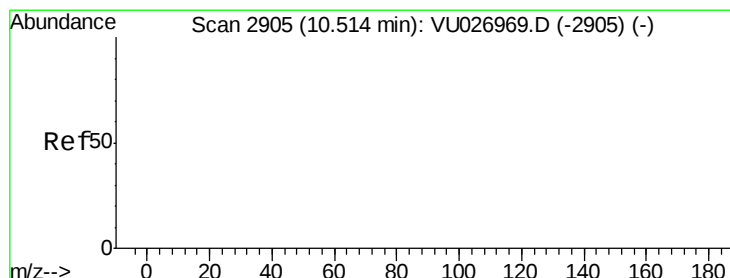
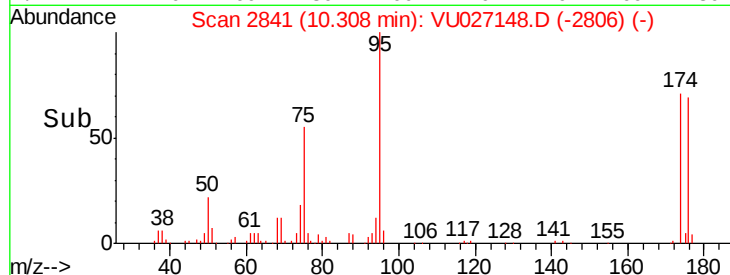
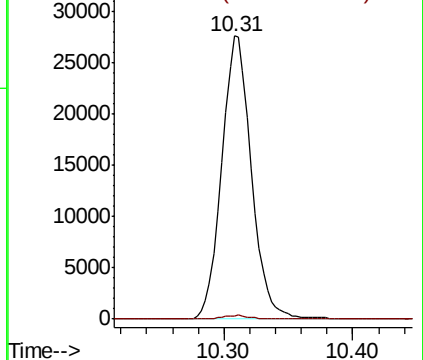
75 100

77 1.1 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: 66.933 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027148.D

Acq: 26 Sep 2018 00:09

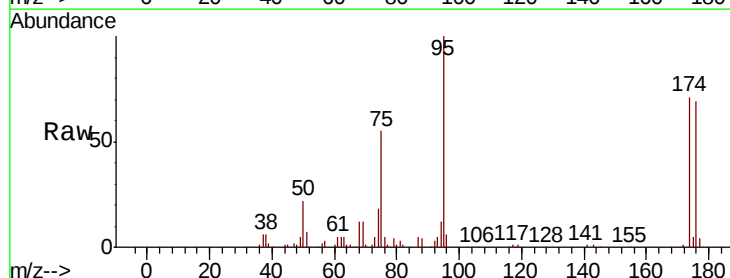
Tgt Ion: 75 Resp: 43962

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

