

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\  
 Data File : VU025754.D  
 Acq On : 31 Jul 2018 21:15  
 Operator : MD/SY  
 Sample : J4250-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 2576

Quant Time: Aug 01 05:31:10 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  | 186694   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 293865   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 291635   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 177069   | 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   | 145907   | 50.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.32% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 121645   | 47.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.18%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 432821   | 48.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.78%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 169741   | 48.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.80%  |          |

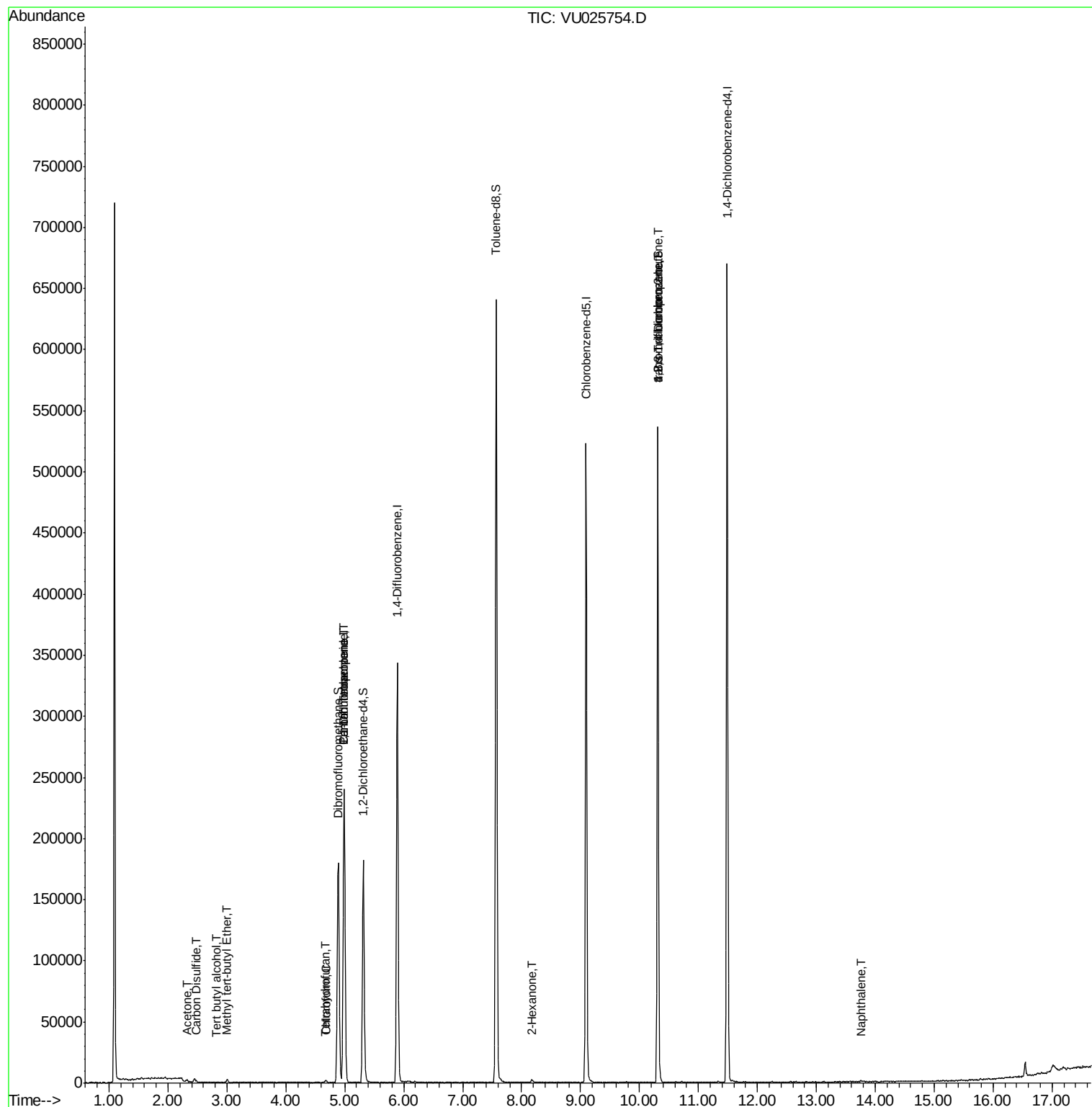
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 2.82  | 59   | 187      | 0.29      | ug/l # | 73     |
| 13) Acrolein                   | 2.21  | 56   | 45       | Below Cal | #      | 20     |
| 16) Acetone                    | 2.32  | 43   | 2151     | 1.52      | ug/l # | 88     |
| 17) Carbon Disulfide           | 2.48  | 76   | 1573     | 0.24      | ug/l # | 83     |
| 19) Methyl tert-butyl Ether    | 3.00  | 73   | 2545     | 0.35      | ug/l   | 93     |
| 29) Tetrahydrofuran            | 4.66  | 42   | 573      | 0.50      | ug/l # | 41     |
| 30) Chloroform                 | 4.68  | 83   | 2041     | 0.45      | ug/l   | 87     |
| 31) Cyclohexane                | 4.99  | 56   | 3402     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 12931    | 3.77      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 17722    | 4.56      | ug/l # | 17     |
| 59) 2-Hexanone                 | 8.17  | 43   | 1713     | 0.59      | ug/l   | 63     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 85599    | 21.94     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 85599    | 55.02     | ug/l # | 100    |
| 95) Naphthalene                | 13.75 | 128  | 974      | 1.32      | ug/l # | 76     |

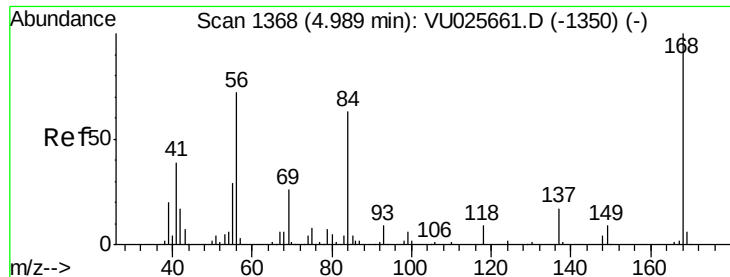
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080118\  
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Sample : J4250-01  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
2576

Quant Time: Aug 01 05:31:10 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 16:07:47 2018  
Response via : Initial Calibration

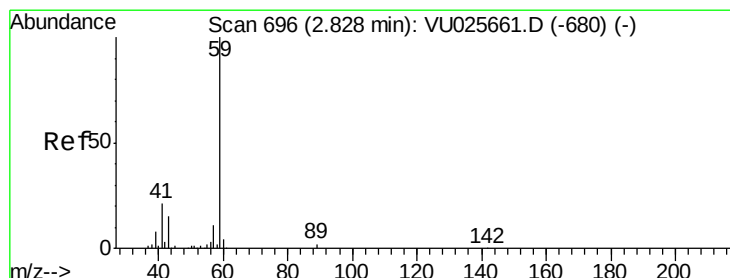
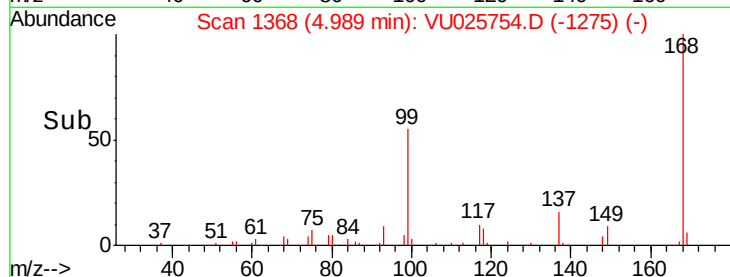
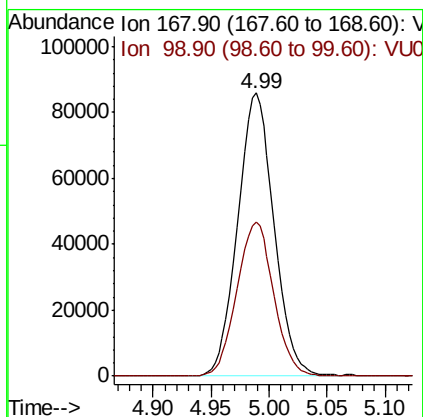
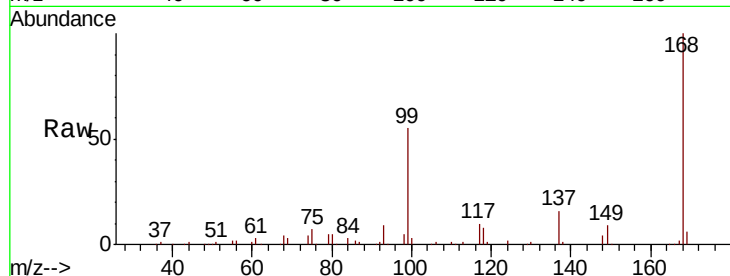




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 4.99 min Scan# 1368  
Delta R.T. 0.00 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

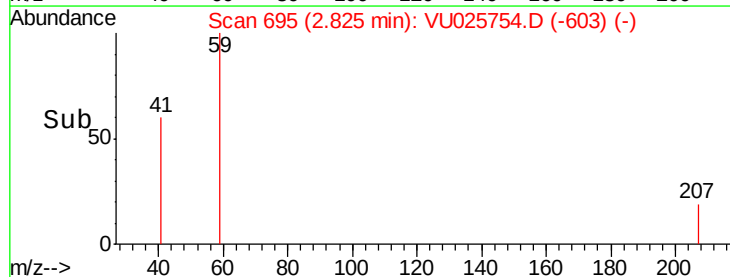
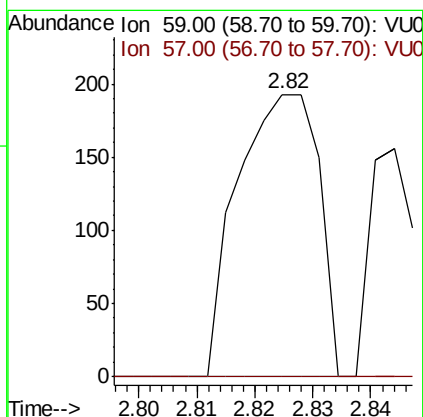
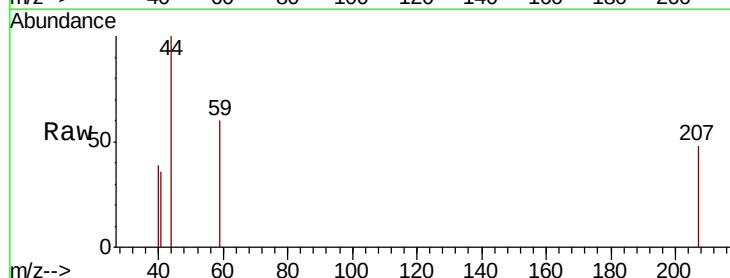
Instrument :  
MSVOA\_U  
ClientSampleId :  
2576

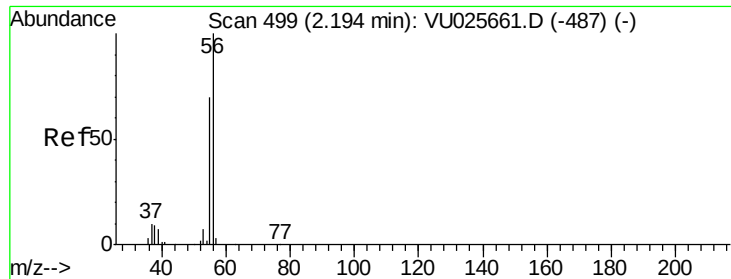
Tot Ion:168 Resp: 186694  
Ion Ratio Lower Upper  
168 100  
99 54.5 42.8 64.2



#11  
Tert butyl alcohol  
Concen: 0.29 ug/l  
RT: 2.82 min Scan# 695  
Delta R.T. -0.00 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

Tgt Ion: 59 Resp: 187  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.21 min Scan# 504

Delta R.T. 0.02 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

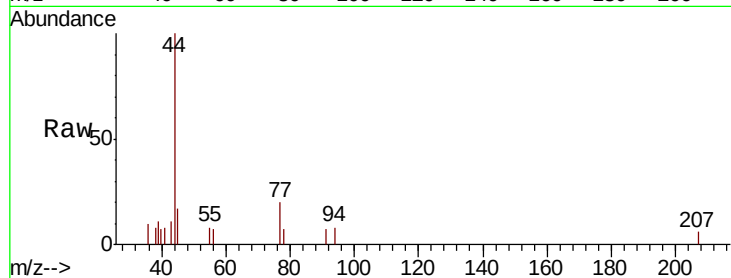
2576

Tot Ion: 56 Resp: 45

Ion Ratio Lower Upper

56 100

55 137.8 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

200

150

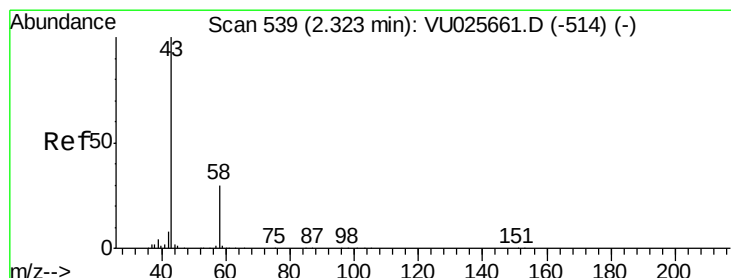
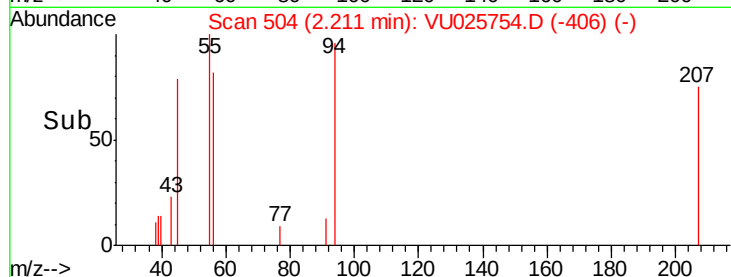
100

50

0

2.20 2.21 2.22

Time-->



#16

Acetone

Concen: 1.52 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025754.D

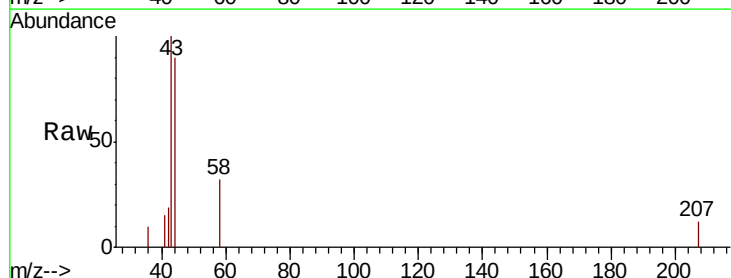
Acq: 31 Jul 2018 21:15

Tgt Ion: 43 Resp: 2151

Ion Ratio Lower Upper

43 100

58 35.2 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1200

1000

800

600

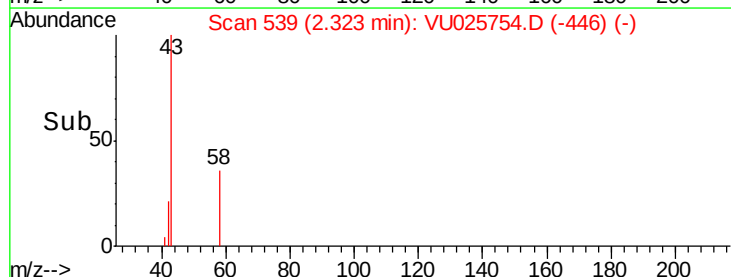
400

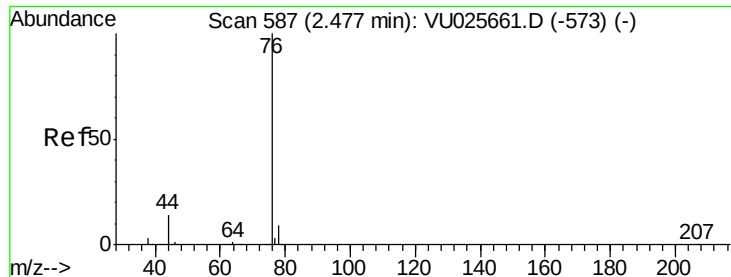
200

0

2.30 2.32 2.35

Time-->





#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

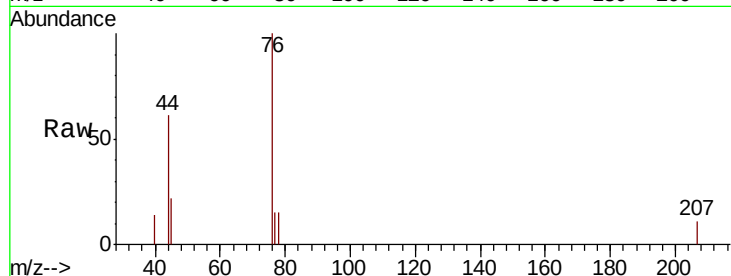
2576

Tot Ion: 76 Resp: 1573

Ion Ratio Lower Upper

76 100

78 15.4 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU025661.D (-573) (-)

Ion 77.90 (77.60 to 78.60): VU025661.D (-573) (-)

2.48

1200

1000

800

600

400

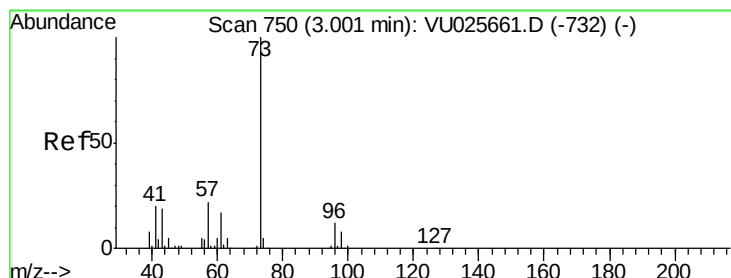
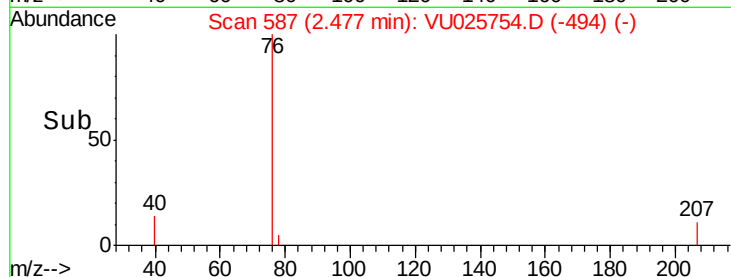
200

0

2.45

2.50

Time-->



#19

Methyl tert-butyl Ether

Concen: 0.35 ug/l

RT: 3.00 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU025754.D

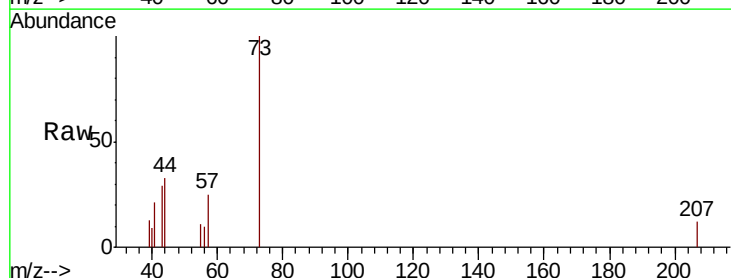
Acq: 31 Jul 2018 21:15

Tgt Ion: 73 Resp: 2545

Ion Ratio Lower Upper

73 100

57 25.0 17.4 26.2



Abundance Ion 73.00 (72.70 to 73.70): VU025661.D (-732) (-)

Ion 57.00 (56.70 to 57.70): VU025661.D (-732) (-)

3.00

1200

1000

800

600

400

200

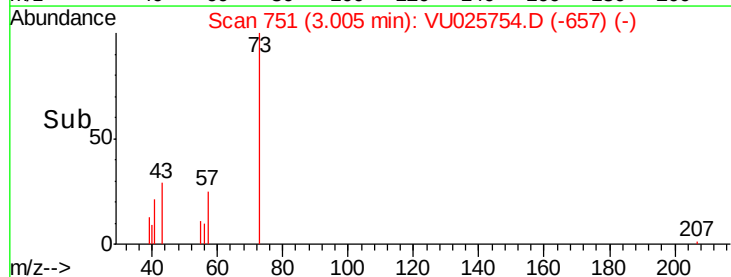
0

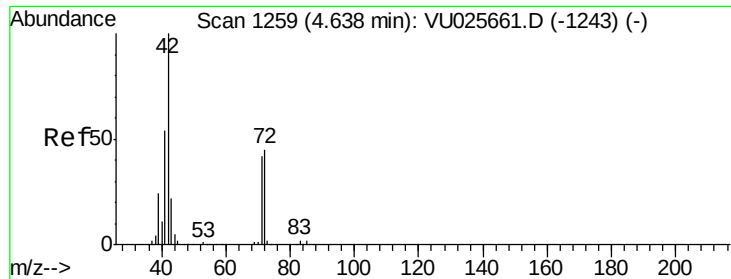
2.95

3.00

3.05

Time-->





#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

2576

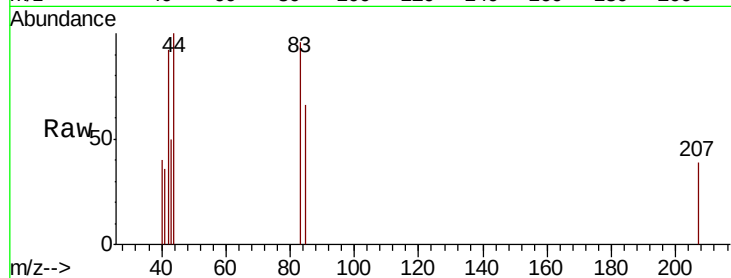
Tot Ion: 42 Resp: 573

Ion Ratio Lower Upper

42 100

72 8.0 36.7 55.1#

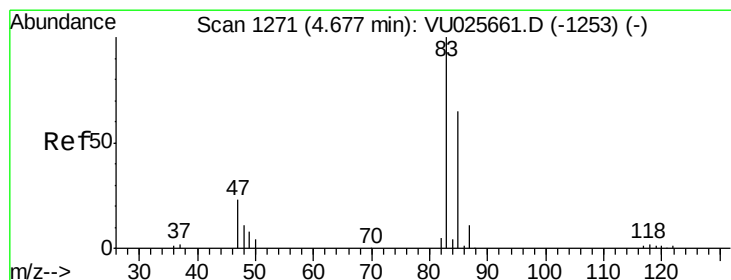
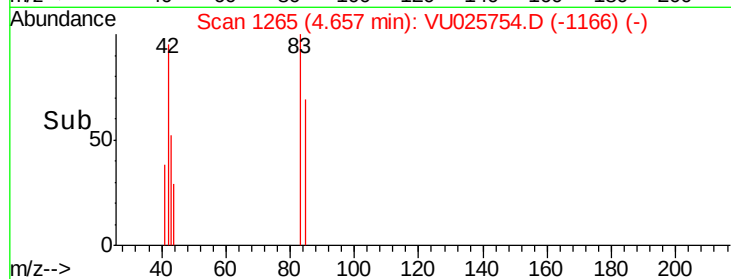
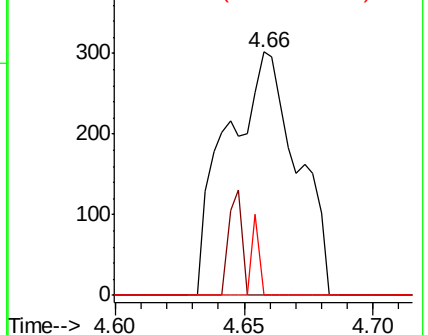
71 3.3 33.9 50.9#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#30

Chloroform

Concen: 0.45 ug/l

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025754.D

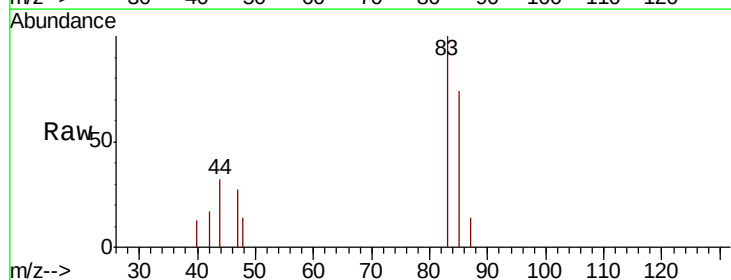
Acq: 31 Jul 2018 21:15

Tgt Ion: 83 Resp: 2041

Ion Ratio Lower Upper

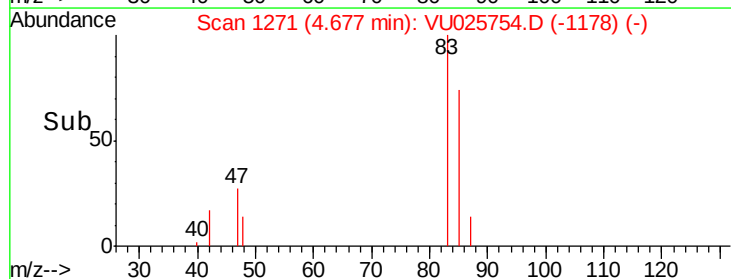
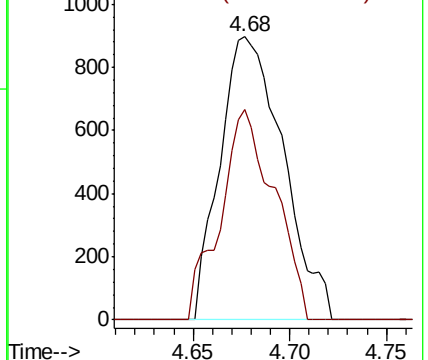
83 100

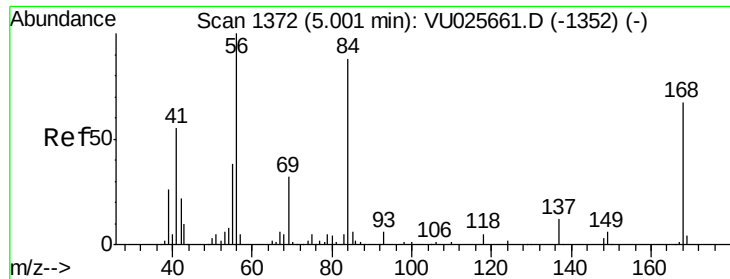
85 74.5 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

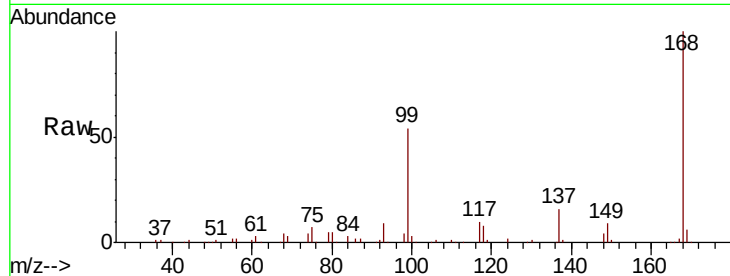




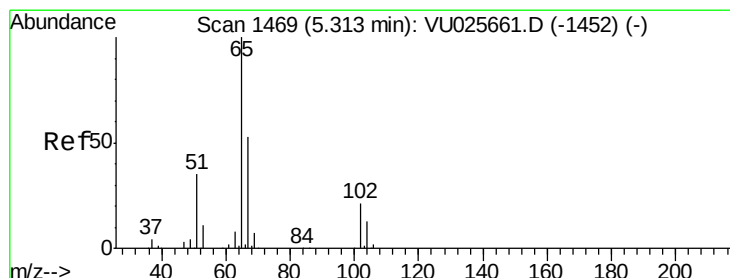
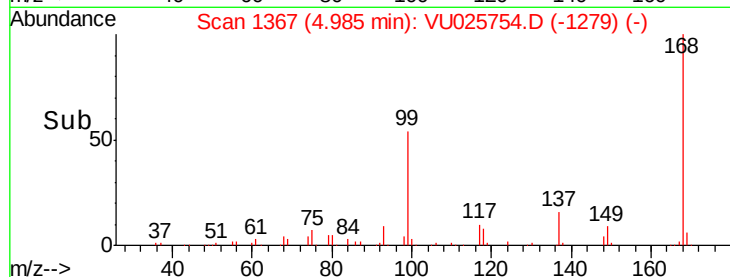
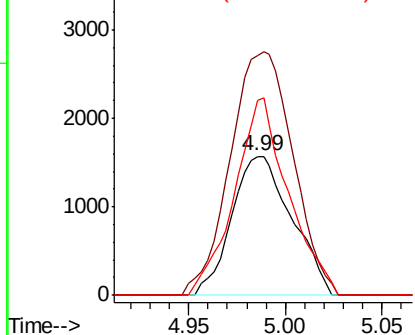
#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.99 min Scan# 1367  
Delta R.T. -0.02 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

Instrument :  
MSVOA\_U  
ClientSampled :  
2576

Tot Ion: 56 Resp: 3402  
Ion Ratio Lower Upper  
56 100  
69 172.8 26.8 40.2#  
84 140.2 69.7 104.5#

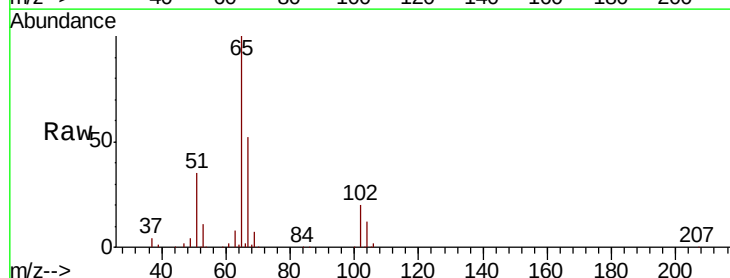


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

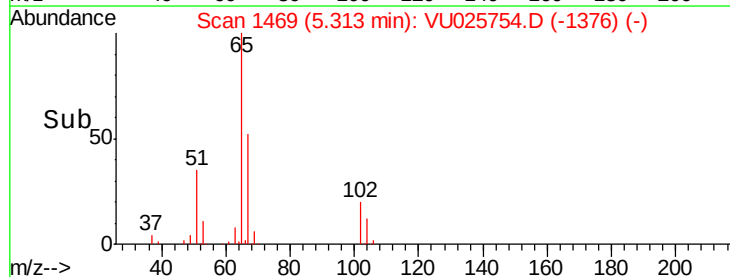
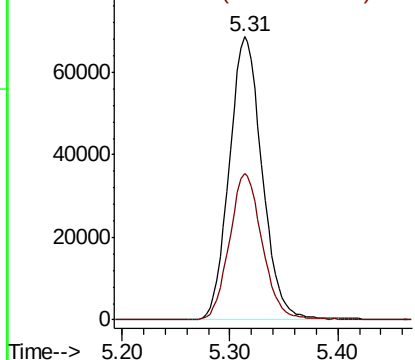


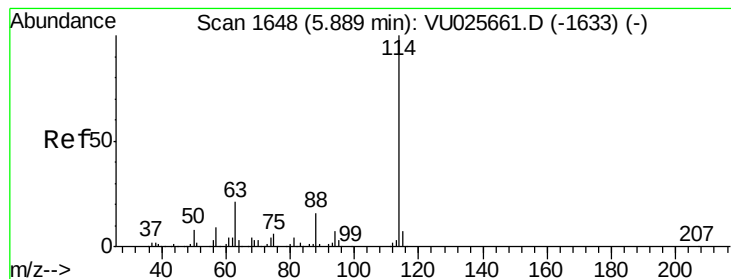
#33  
1,2-Dichloroethane-d4  
Concen: 50.16 ug/l  
RT: 5.31 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

Tgt Ion: 65 Resp: 145907  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 103.6



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

2576

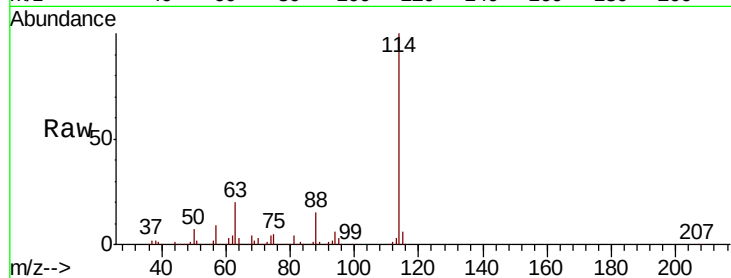
Tot Ion:114 Resp: 293865

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.6

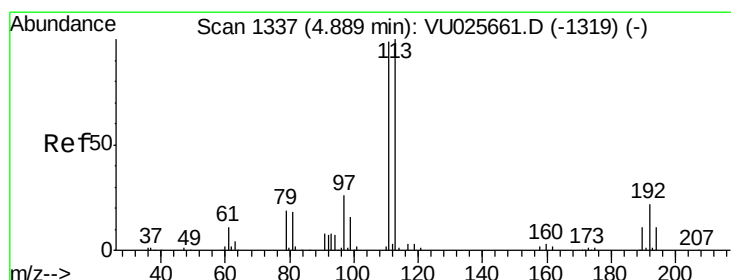
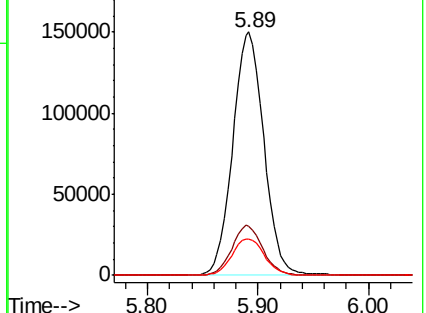
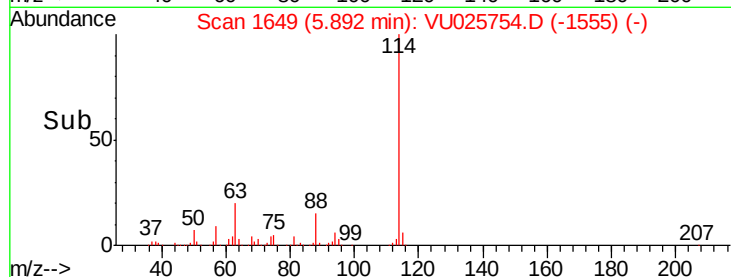
88 15.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.59 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

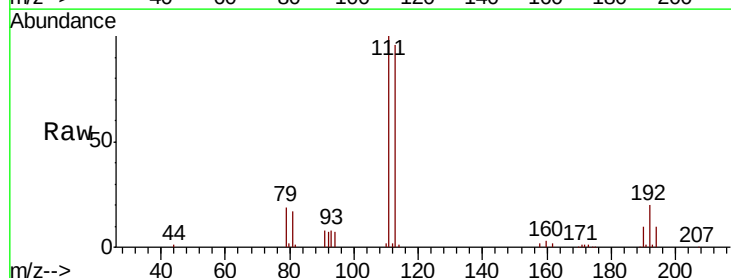
Tgt Ion:113 Resp: 121645

Ion Ratio Lower Upper

113 100

111 104.1 81.7 122.5

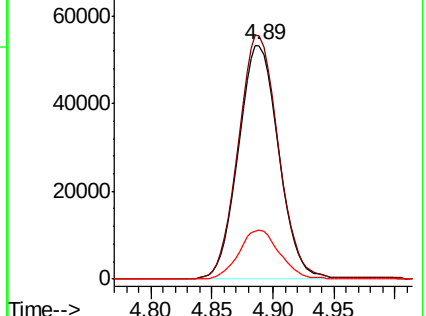
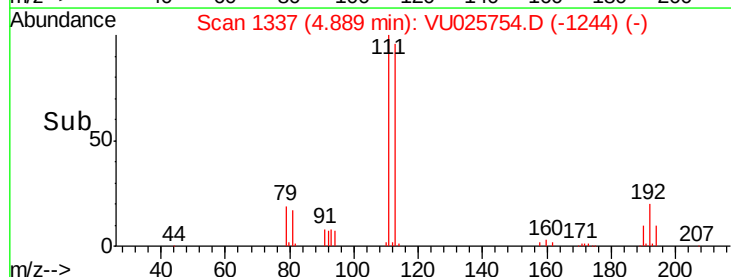
192 21.2 17.1 25.7



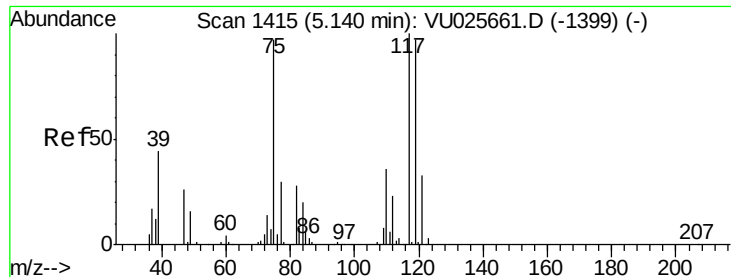
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



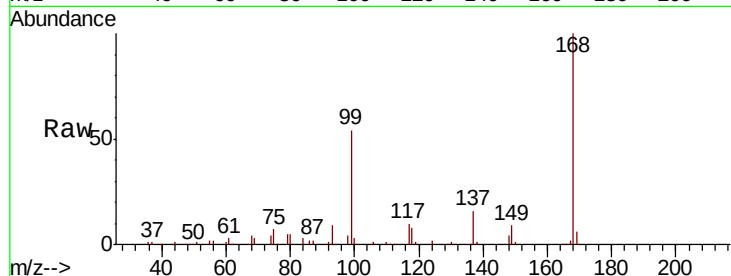




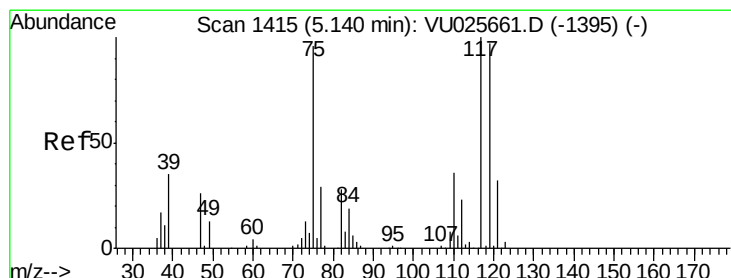
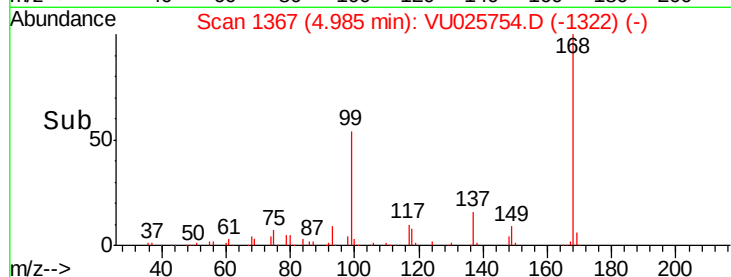
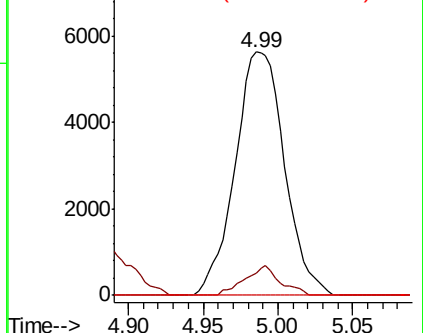
#36  
 1,1-Dichloropropene  
 Concen: 3.77 ug/l  
 RT: 4.99 min Scan# 1367  
 Delta R.T. -0.15 min  
 Lab File: VU025754.D  
 Acq: 31 Jul 2018 21:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 2576

| Tot Ion   | 75  | Resp  | 12931 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 8.7 | 17.6  | 52.9# |
| 77        | 0.0 | 24.4  | 36.6# |

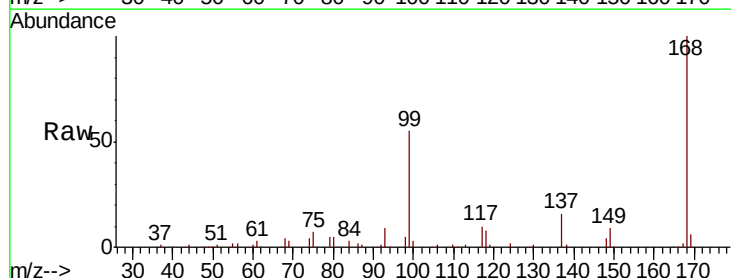


Abundance Ion 74.90 (74.60 to 75.60): VU0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VU0

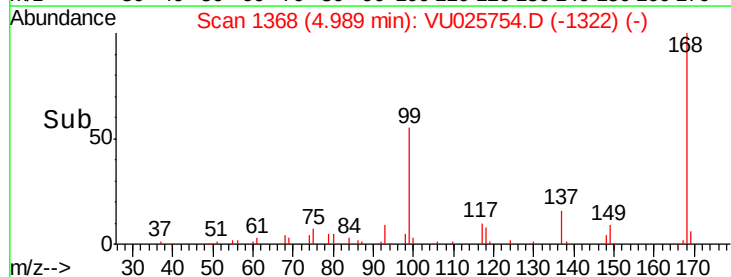
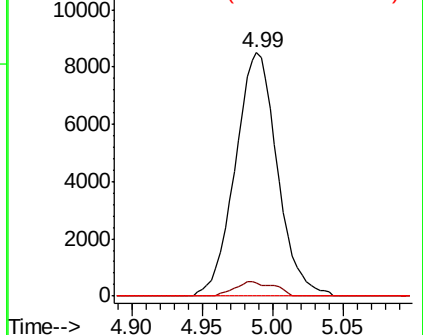


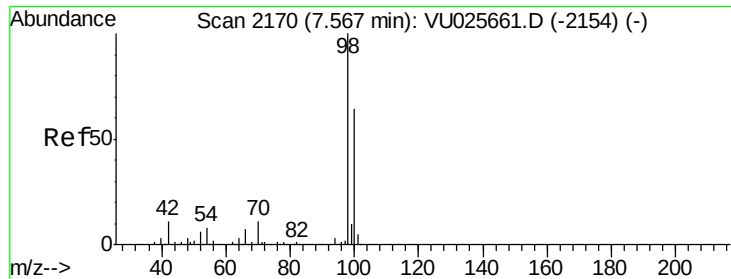
#38  
 Carbon Tetrachloride  
 Concen: 4.56 ug/l  
 RT: 4.99 min Scan# 1368  
 Delta R.T. -0.15 min  
 Lab File: VU025754.D  
 Acq: 31 Jul 2018 21:15

| Tgt Ion                                              | 117 | Resp  | 17722  |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 117                                                  | 100 |       |        |
| 119                                                  | 5.4 | 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

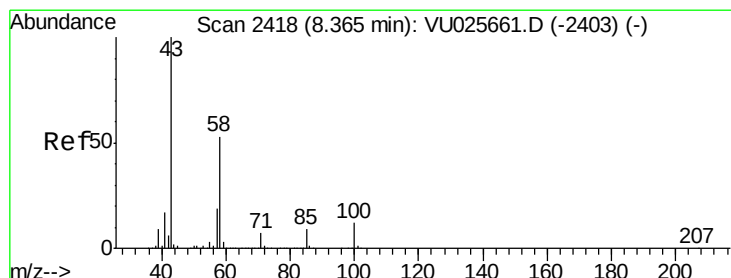
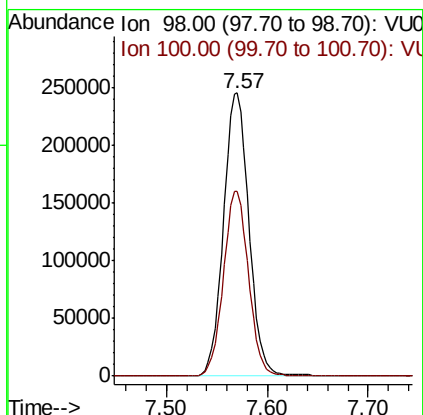
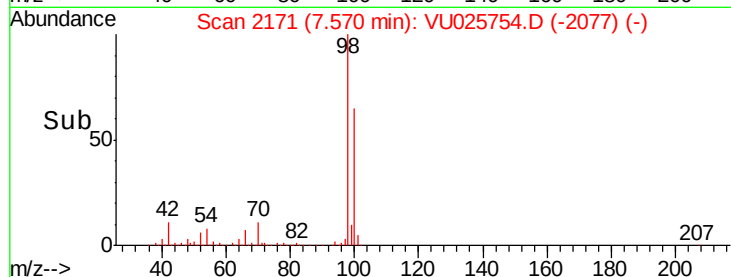
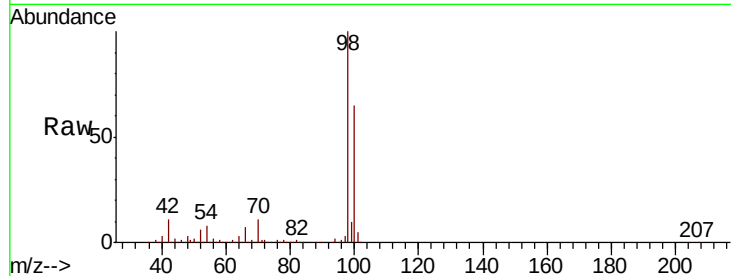




#50  
Toluene-d8  
Concen: 48.39 ug/l  
RT: 7.57 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

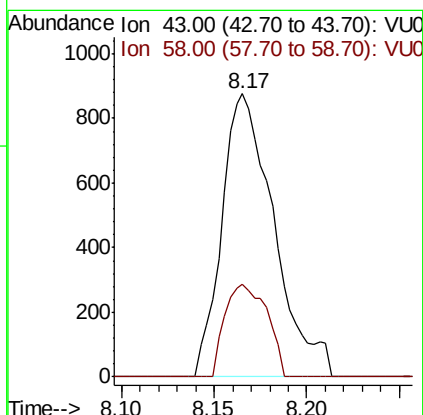
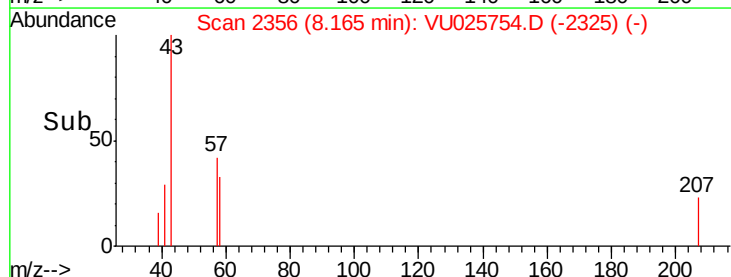
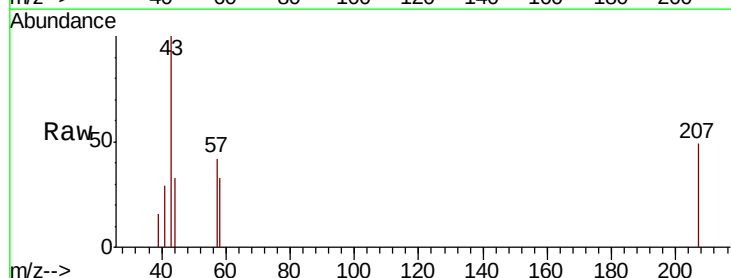
Instrument :  
MSVOA\_U  
ClientSampled :  
2576

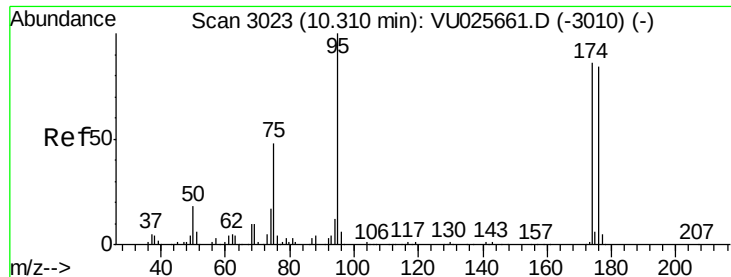
Tot Ion: 98 Resp: 432821  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.1 76.7



#59  
2-Hexanone  
Concen: 0.59 ug/l  
RT: 8.17 min Scan# 2356  
Delta R.T. -0.20 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

Tgt Ion: 43 Resp: 1713  
Ion Ratio Lower Upper  
43 100  
58 26.3 26.2 78.5





#62

4-Bromofluorobenzene

Concen: 48.90 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

2576

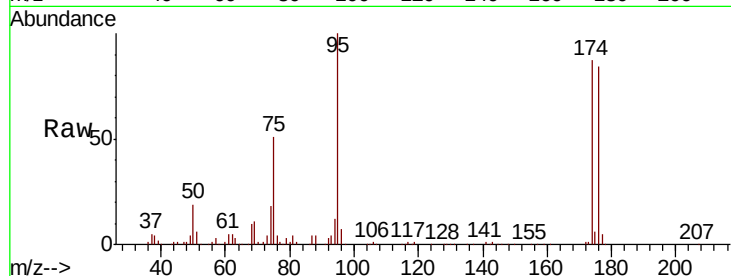
Tot Ion: 95 Resp: 169741

Ion Ratio Lower Upper

95 100

174 88.0 0.0 172.2

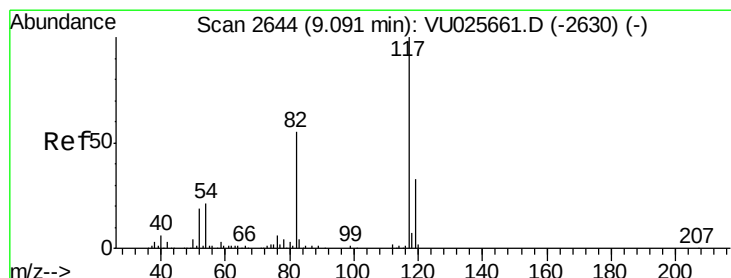
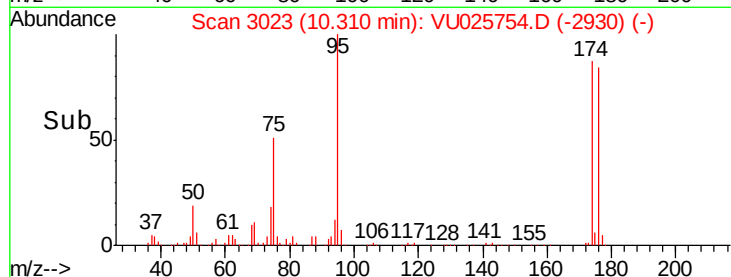
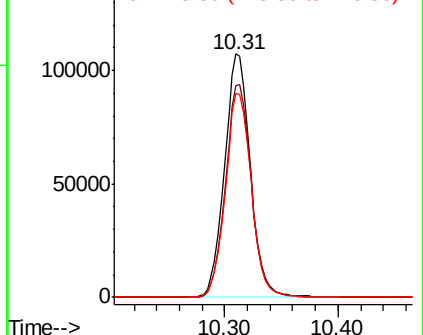
176 84.5 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025661.D (-3010) (-)

Ion 173.80 (173.50 to 174.50): VU025661.D (-3010) (-)

Ion 175.80 (175.50 to 176.50): VU025661.D (-3010) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

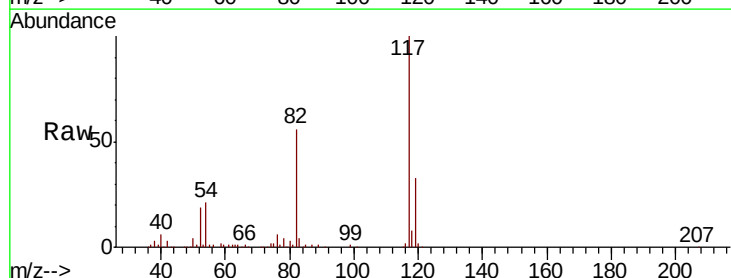
Tgt Ion: 117 Resp: 291635

Ion Ratio Lower Upper

117 100

82 55.7 46.0 69.0

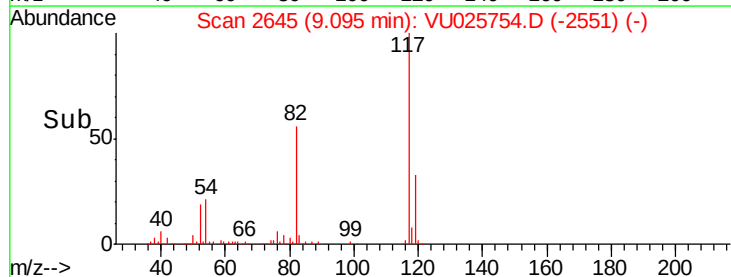
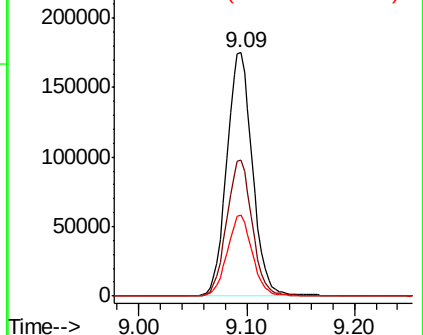
119 33.0 26.0 39.0

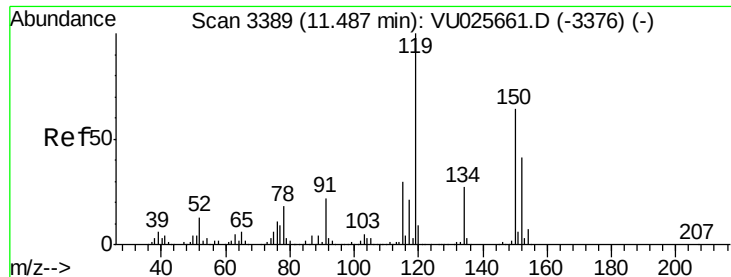


Abundance Ion 116.90 (116.60 to 117.60): VU025661.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU025661.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU025661.D (-2630) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025754.D

Acq: 31 Jul 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

2576

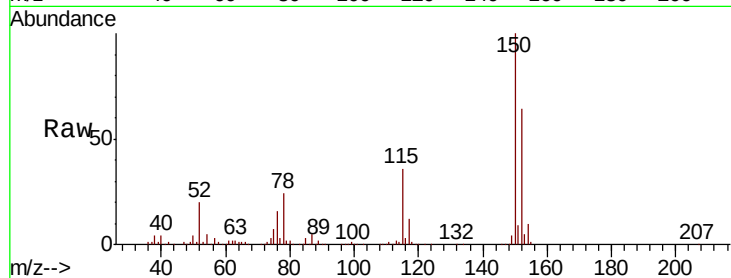
Tot Ion:152 Resp: 177069

Ion Ratio Lower Upper

152 100

115 56.3 40.1 120.3

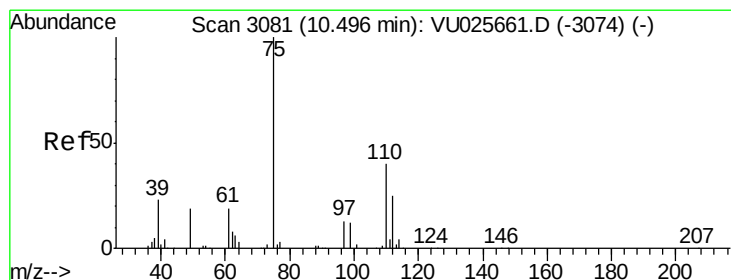
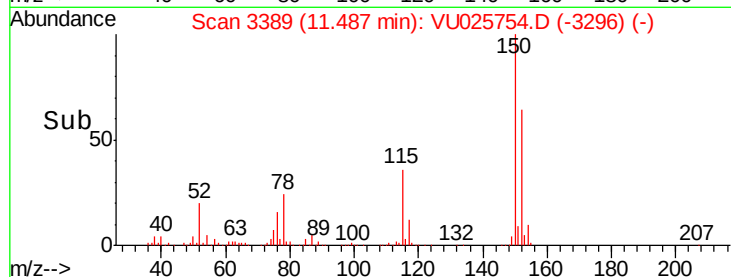
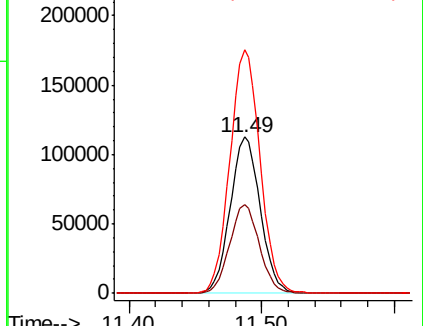
150 156.8 0.0 351.4



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: 21.94 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025754.D

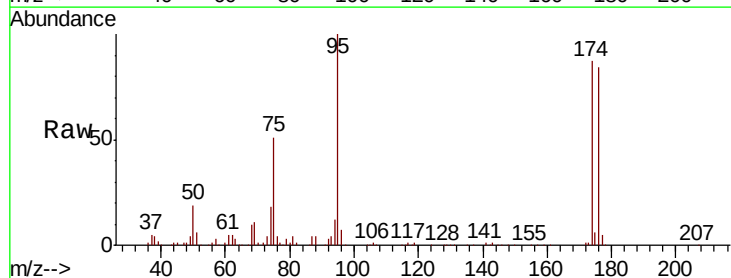
Acq: 31 Jul 2018 21:15

Tgt Ion: 75 Resp: 85599

Ion Ratio Lower Upper

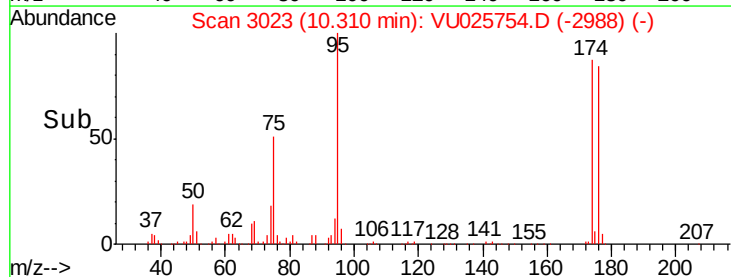
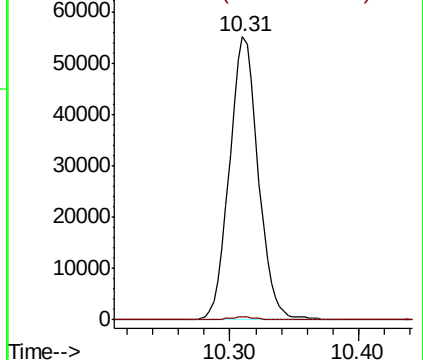
75 100

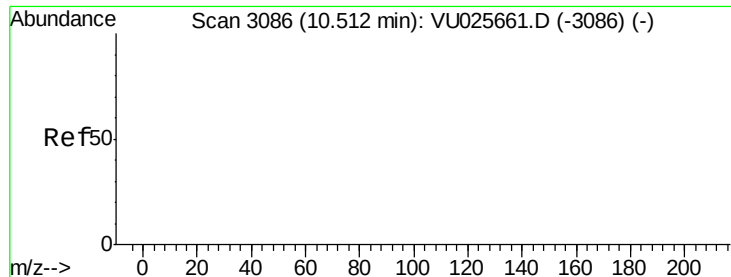
77 1.0 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

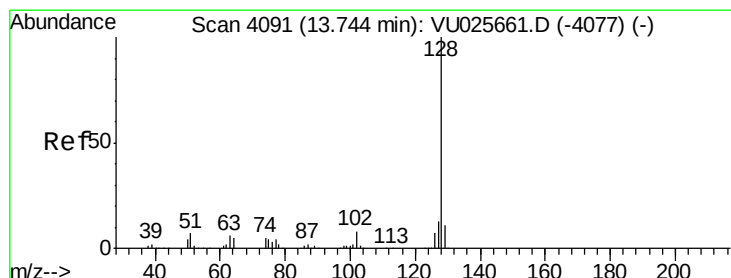
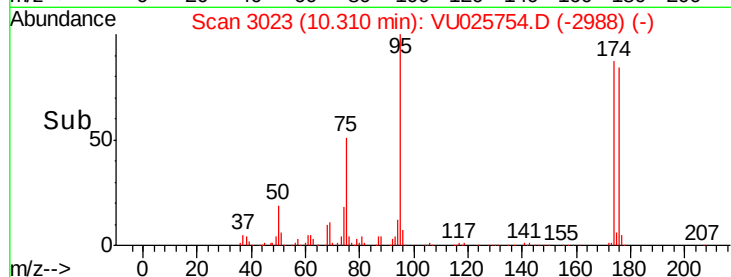
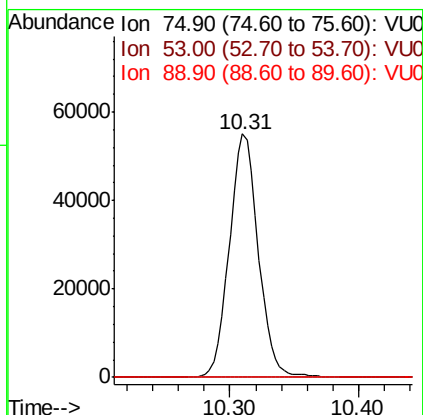
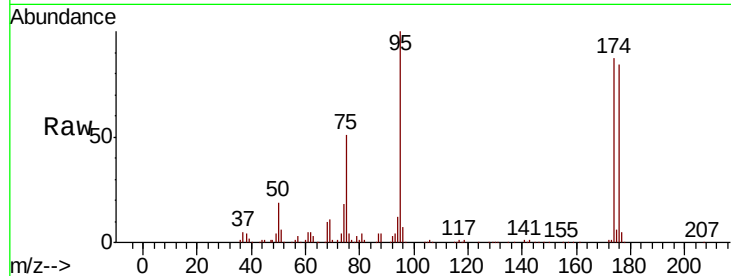




#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.02 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. -0.19 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

Instrument :  
MSVOA\_U  
ClientSampled :  
2576

Tot Ion: 75 Resp: 85599  
Ion Ratio Lower Upper  
75 100  
53 0.0 0.0 0.0#  
89 0.0 0.0 0.0



#95  
Naphthalene  
Concen: 1.32 ug/l  
RT: 13.75 min Scan# 4094  
Delta R.T. 0.01 min  
Lab File: VU025754.D  
Acq: 31 Jul 2018 21:15

Tgt Ion:128 Resp: 974  
Ion Ratio Lower Upper  
128 100  
127 4.7 10.5 15.7#  
129 0.0 8.3 12.5#

