

Data File : VU027055.D  
Acq On : 23 Sep 2018 07:16  
Operator : MD/SY  
Sample : J4963-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 97 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ127I-20180914

Quant Time: Sep 24 05:48:49 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  | 93248    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 160155   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 154616   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 71178    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 98585    | 52.53 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.06% |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 69126    | 49.79 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.58%  |      |
| 50) Toluene-d8              | 7.57   | 98  | 249443   | 47.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.30%  |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 83388    | 45.93 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.86%  |      |

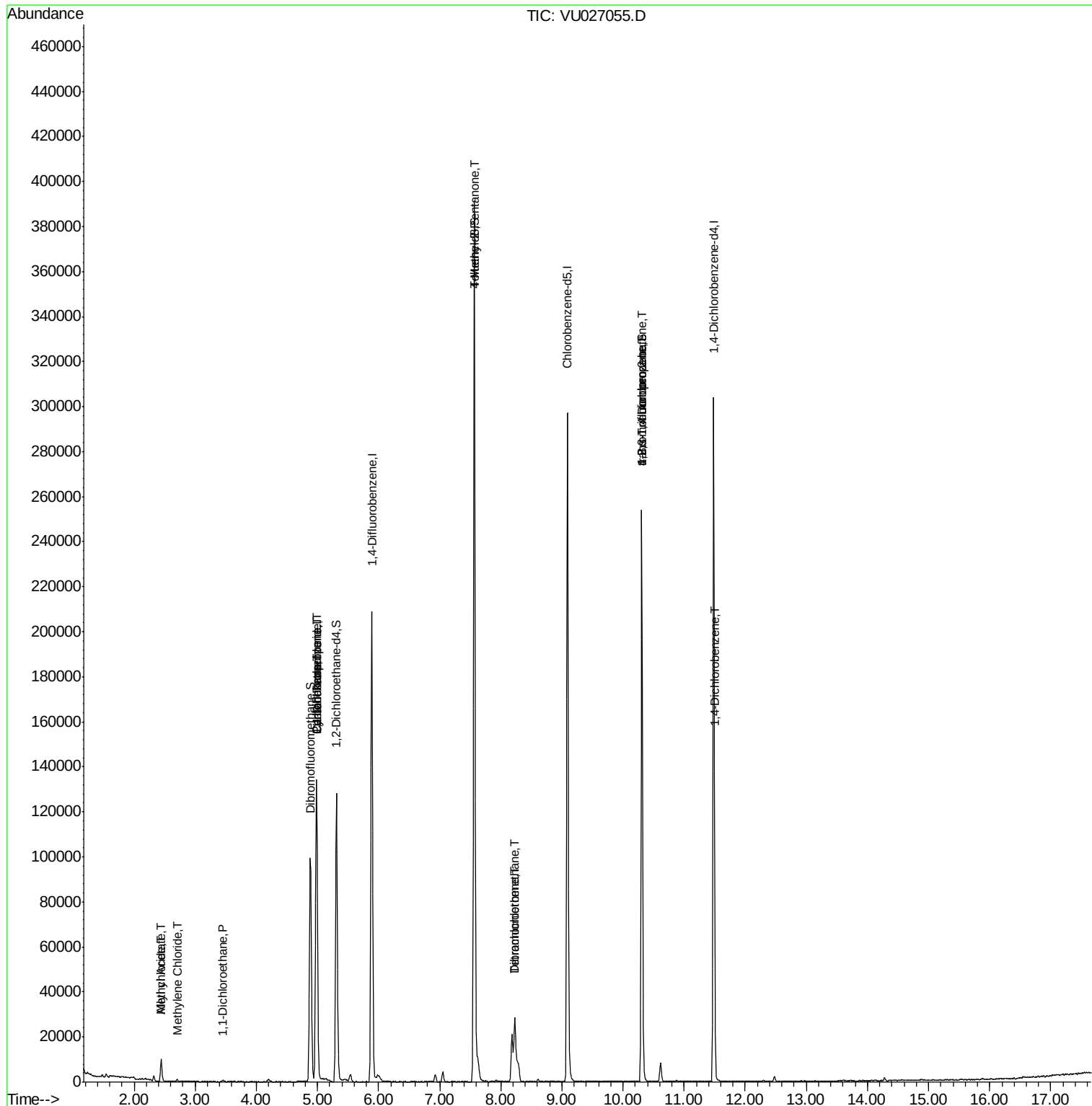
|                                |       |     |        |               |     |  |
|--------------------------------|-------|-----|--------|---------------|-----|--|
| Target Compounds               |       |     | Qvalue |               |     |  |
| 14) Allyl chloride             | 2.44  | 41  | 977    | 0.374 ug/l #  | 63  |  |
| 16) Acetone                    | 2.32  | 43  | 2433   | Below Cal     | 97  |  |
| 18) Methyl Acetate             | 2.44  | 43  | 2743   | 1.027 ug/l #  | 55  |  |
| 20) Methylene Chloride         | 2.70  | 84  | 417    | 0.248 ug/l #  | 82  |  |
| 24) 1,1-Dichloroethane         | 3.45  | 63  | 845    | 0.275 ug/l #  | 84  |  |
| 31) Cyclohexane                | 4.98  | 56  | 2460   | 0.308 ug/l #  | 1   |  |
| 36) 1,1-Dichloropropene        | 4.98  | 75  | 9363   | 4.380 ug/l #  | 49  |  |
| 38) Carbon Tetrachloride       | 4.99  | 117 | 9804   | 4.820 ug/l #  | 18  |  |
| 51) 4-Methyl-2-Pentanone       | 7.56  | 43  | 1278   | 0.450 ug/l #  | 1   |  |
| 60) Dibromochloromethane       | 8.23  | 129 | 3990   | 2.577 ug/l #  | 11  |  |
| 64) Tetrachloroethene          | 8.23  | 164 | 4048   | 3.398 ug/l    | 95  |  |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 45539  | 21.060 ug/l # | 35  |  |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 45539  | 67.395 ug/l # | 100 |  |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146 | 634    | 0.236 ug/l #  | 25  |  |

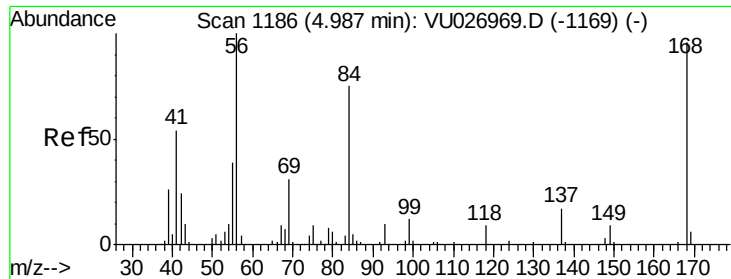
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU027055.D

Acq: 23 Sep 2018 07:16

Instrument :

MSVOA\_U

ClientSampleId :

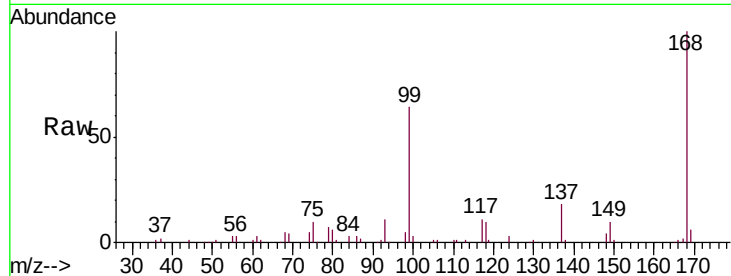
SA-PZ127I-20180914

Tgt Ion:168 Resp: 93248

Ion Ratio Lower Upper

168 100

99 64.4 48.1 72.1

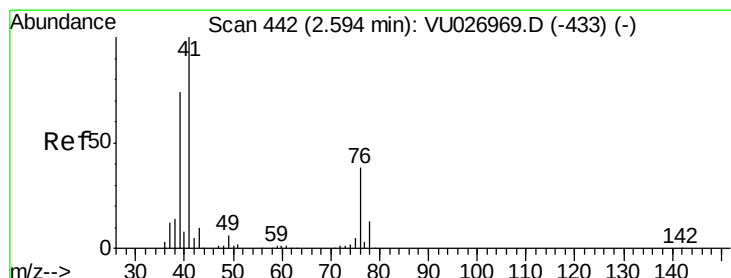
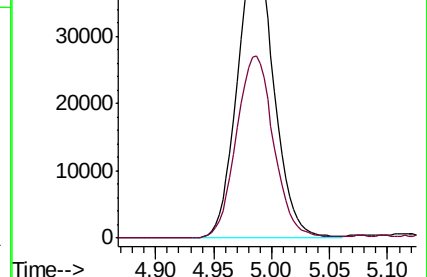
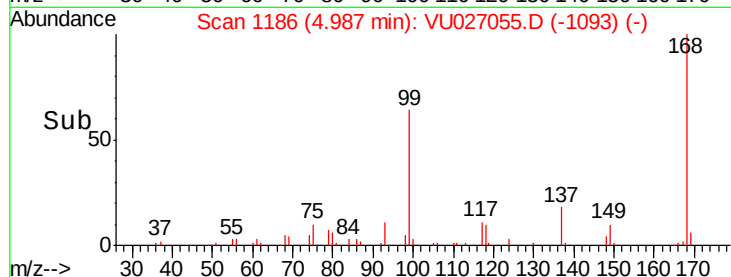


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

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

4.99

Time-->



#14

Allyl chloride

Concen: 0.374 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.15 min

Lab File: VU027055.D

Acq: 23 Sep 2018 07:16

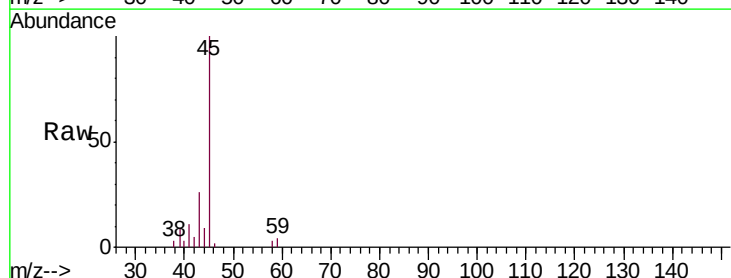
Tgt Ion: 41 Resp: 977

Ion Ratio Lower Upper

41 100

39 91.1 55.7 83.5#

76 0.0 26.5 39.7#



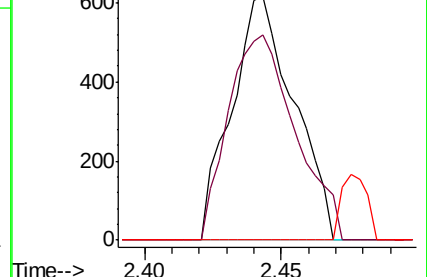
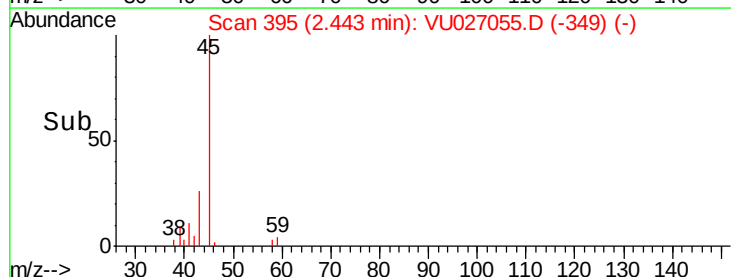
Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-433) (-)

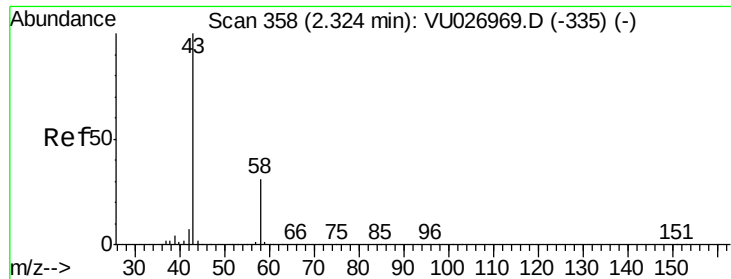
Ion 39.00 (38.70 to 39.70): VU026969.D (-433) (-)

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

2.44

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027055.D

Acq: 23 Sep 2018 07:16

Instrument :

MSVOA\_U

ClientSampleId :

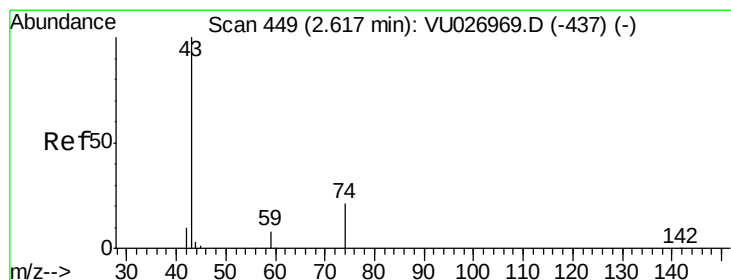
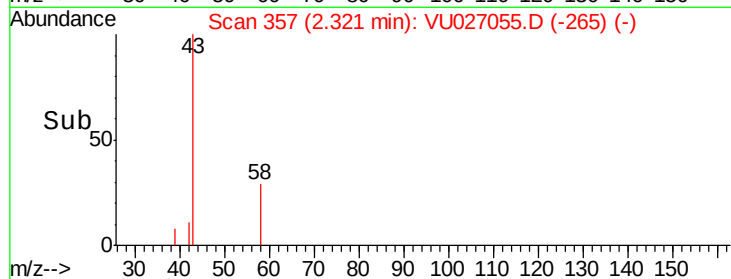
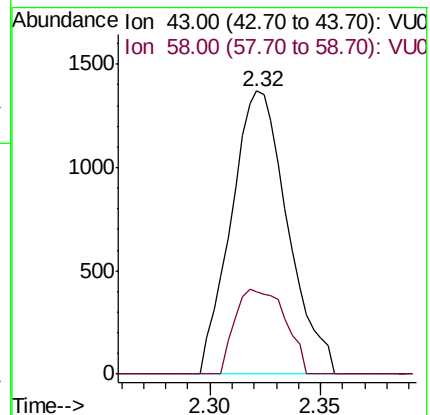
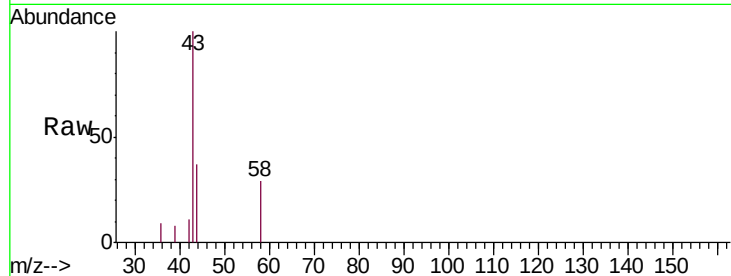
SA-PZ127I-20180914

Tgt Ion: 43 Resp: 2433

Ion Ratio Lower Upper

43 100

58 29.1 24.6 36.8



#18

Methyl Acetate

Concen: 1.027 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027055.D

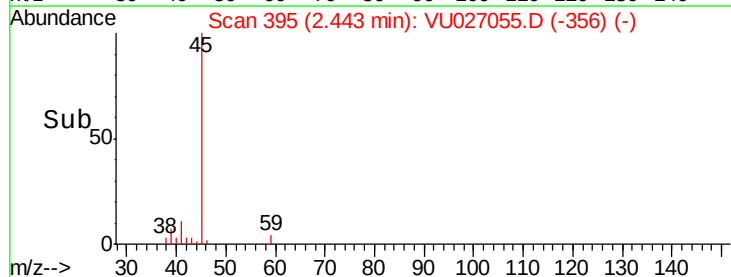
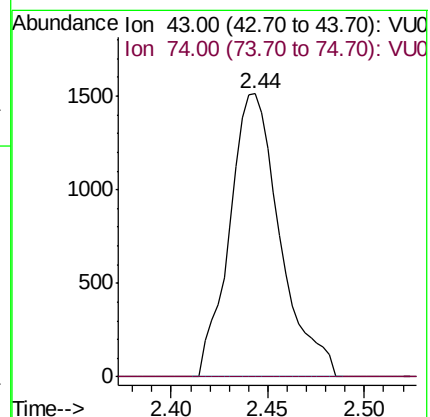
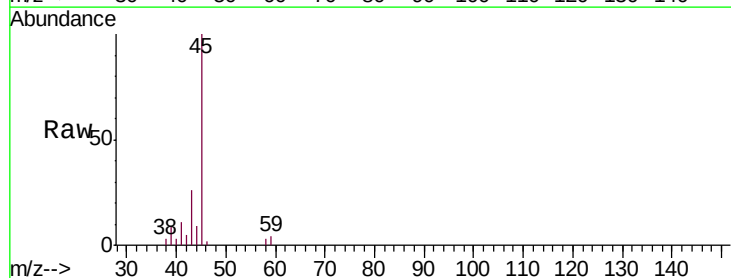
Acq: 23 Sep 2018 07:16

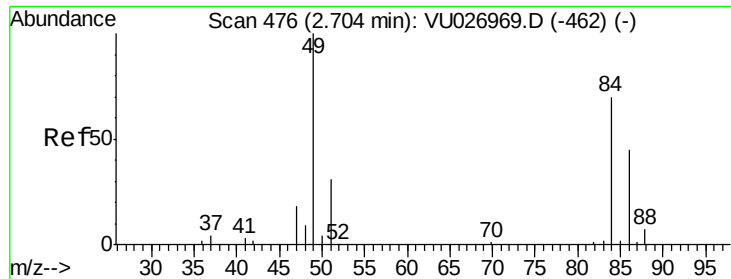
Tgt Ion: 43 Resp: 2743

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#



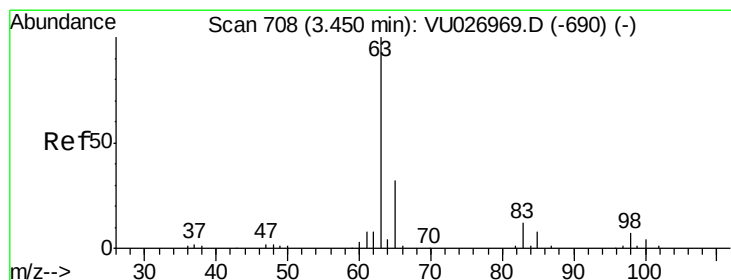
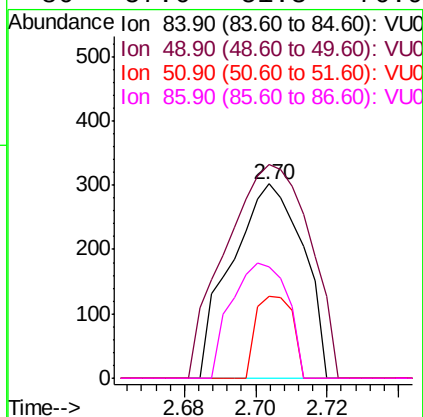
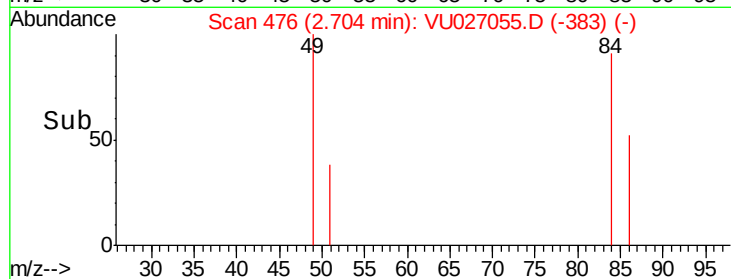
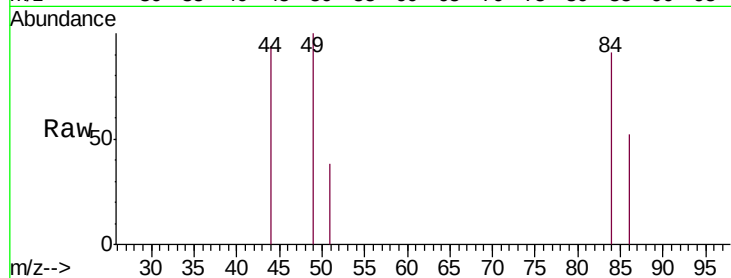


#20  
Methylene Chloride  
Concen: 0.248 ug/l  
RT: 2.70 min Scan# 476  
Delta R.T. -0.00 min  
Lab File: VU027055.D  
Acq: 23 Sep 2018 07:16

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ127I-20180914

Tgt Ion: 84 Resp: 417

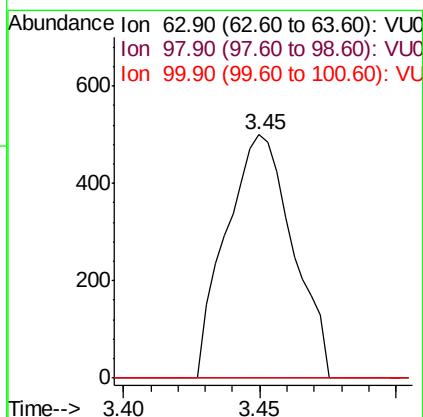
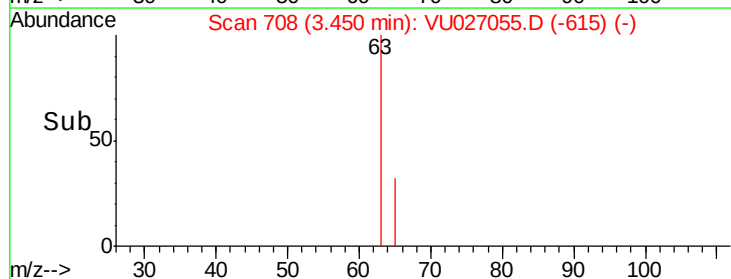
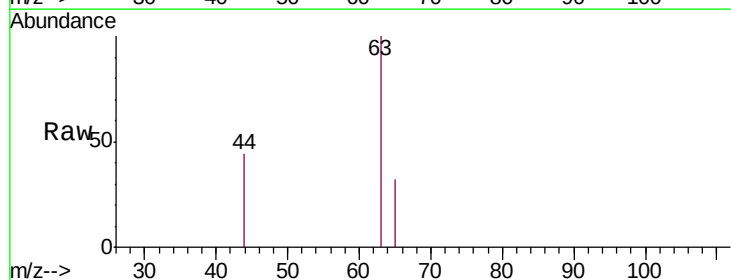
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 109.9 | 114.9 | 172.3# |
| 51  | 42.1  | 35.8  | 53.8   |
| 86  | 57.6  | 51.3  | 76.9   |

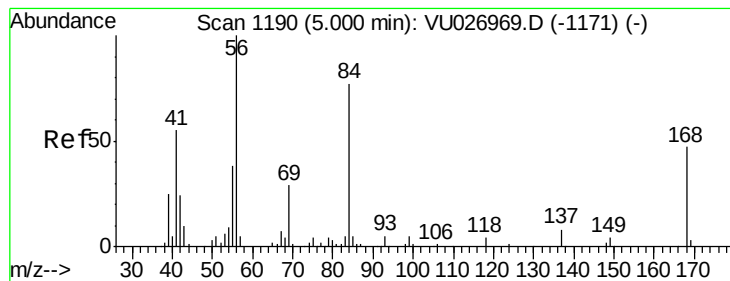


#24  
1,1-Dichloroethane  
Concen: 0.275 ug/l  
RT: 3.45 min Scan# 708  
Delta R.T. -0.00 min  
Lab File: VU027055.D  
Acq: 23 Sep 2018 07:16

Tgt Ion: 63 Resp: 845

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 0.0   | 3.3   | 9.8#  |
| 100 | 0.0   | 2.0   | 5.8#  |





#31

Cyclohexane

Concen: 0.308 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027055.D

Acq: 23 Sep 2018 07:16

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ127I-20180914

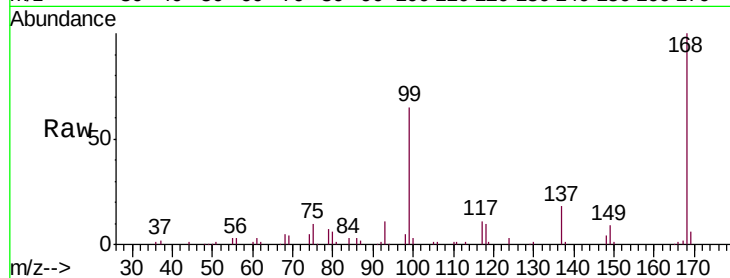
Tgt Ion: 56 Resp: 2460

Ion Ratio Lower Upper

56 100

69 164.0 23.0 34.4#

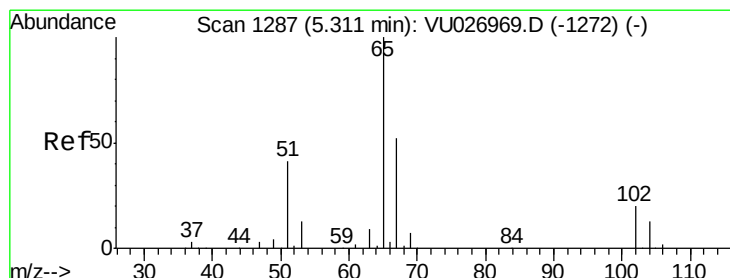
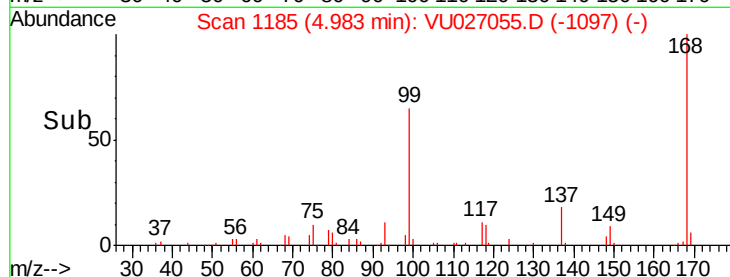
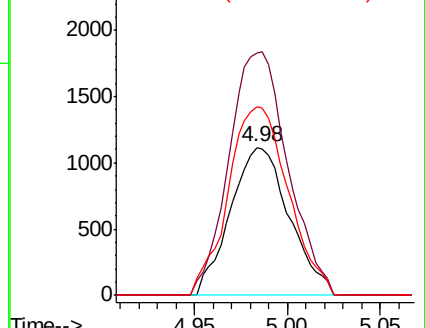
84 128.1 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU026969.D (-1171) (-)

Ion 69.00 (68.70 to 69.70): VU026969.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU026969.D (-1171) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.529 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU027055.D

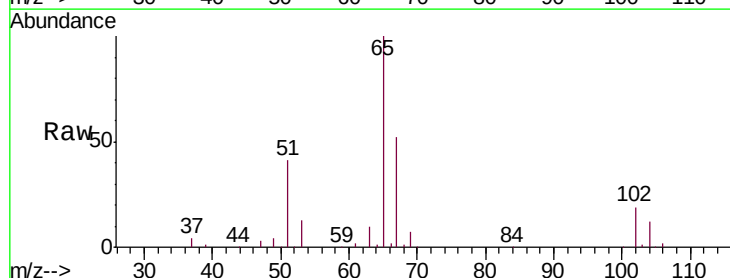
Acq: 23 Sep 2018 07:16

Tgt Ion: 65 Resp: 98585

Ion Ratio Lower Upper

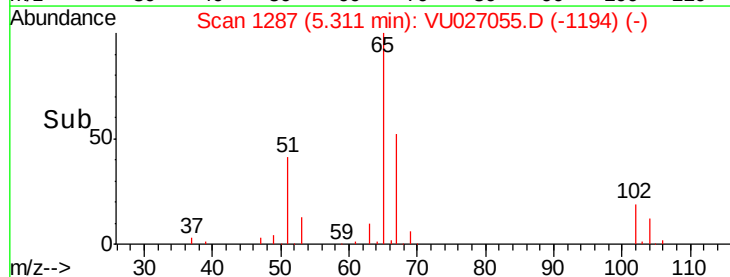
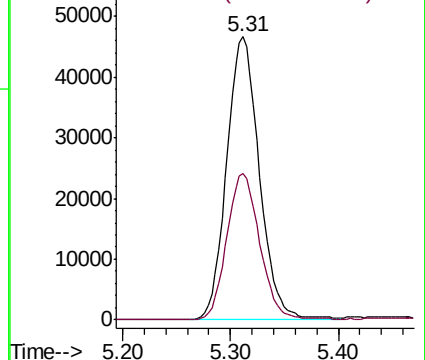
65 100

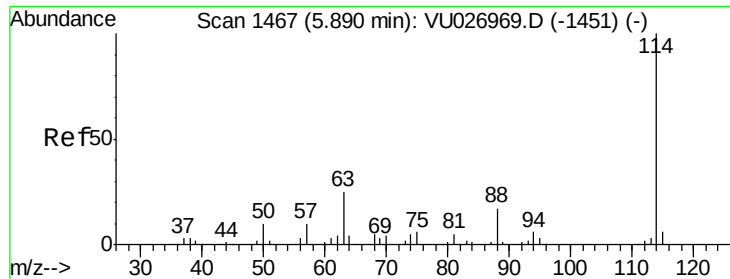
67 52.0 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

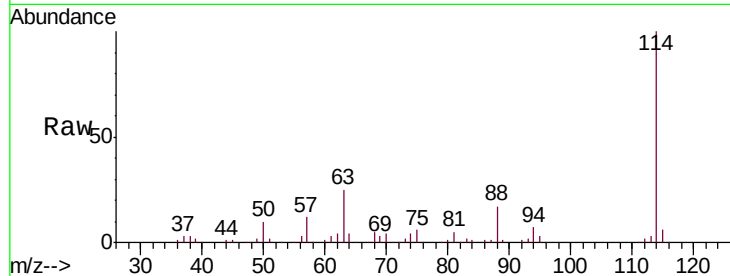




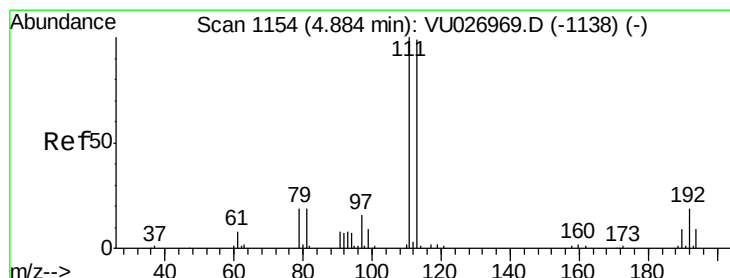
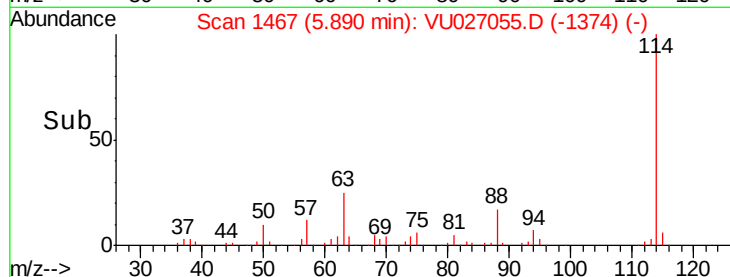
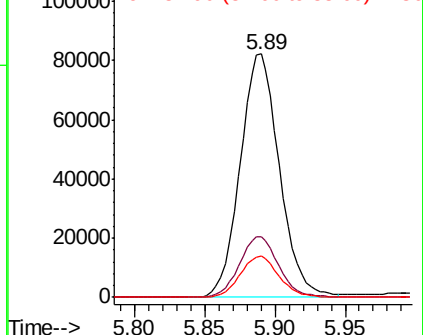
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. -0.00 min  
 Lab File: VU027055.D  
 Acq: 23 Sep 2018 07:16

Instrument :  
 MSVOA\_U  
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 SA-PZ127I-20180914

Tgt Ion:114 Resp: 160155  
 Ion Ratio Lower Upper  
 114 100  
 63 24.8 0.0 49.2  
 88 17.0 0.0 33.8

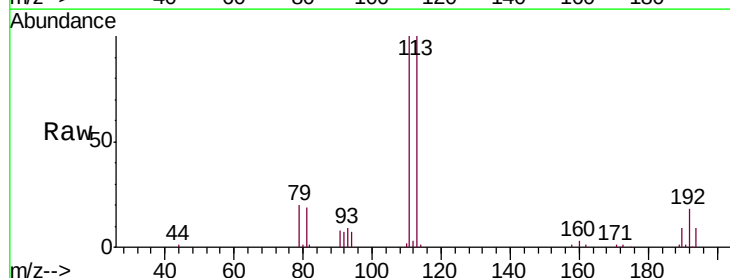


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

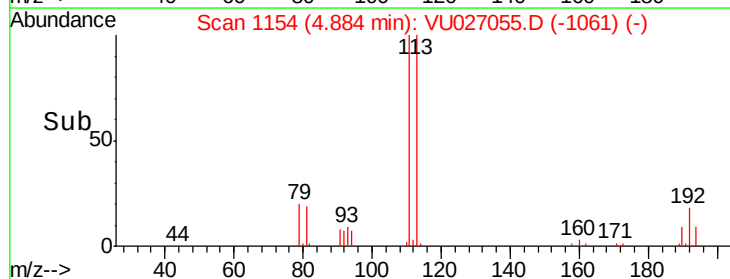
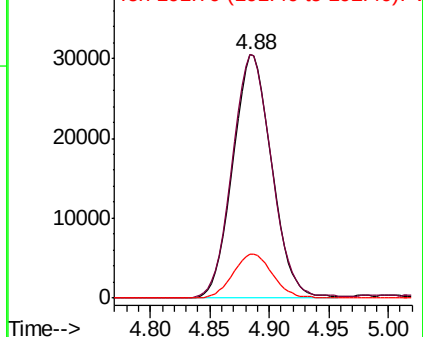


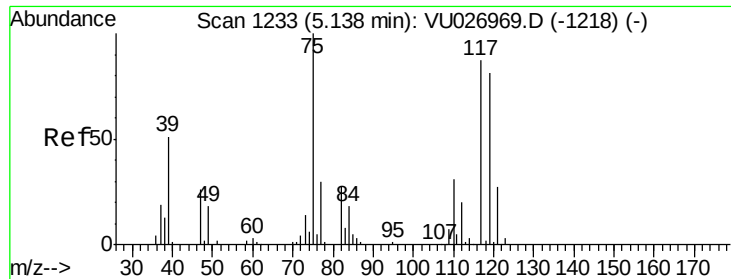
#35  
 Dibromofluoromethane  
 Concen: 49.794 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. -0.00 min  
 Lab File: VU027055.D  
 Acq: 23 Sep 2018 07:16

Tgt Ion:113 Resp: 69126  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 82.2 123.4  
 192 18.2 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

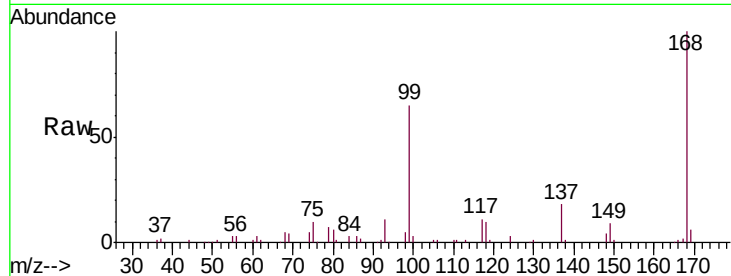




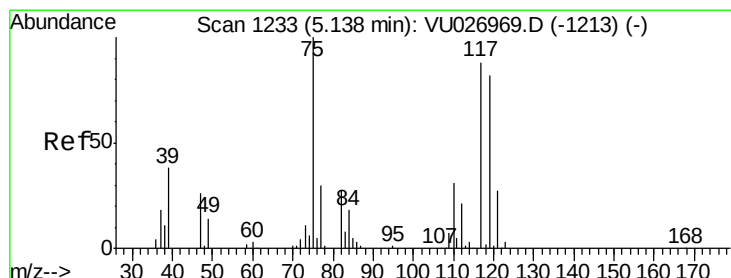
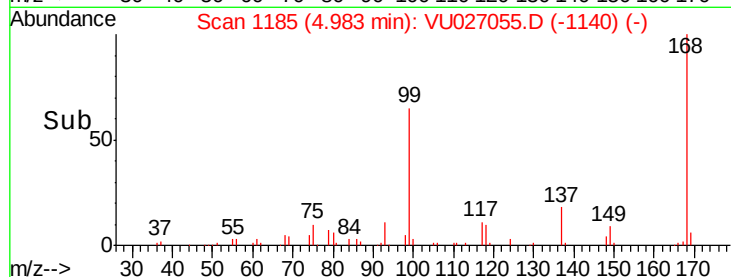
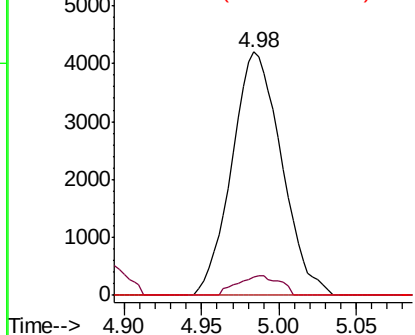
#36  
 1,1-Dichloropropene  
 Concen: 4.380 ug/l  
 RT: 4.98 min Scan# 1185  
 Delta R.T. -0.15 min  
 Lab File: VU027055.D  
 Acq: 23 Sep 2018 07:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ1271-20180914

Tgt Ion: 75 Resp: 9363  
 Ion Ratio Lower Upper  
 75 100  
 110 6.9 16.1 48.2#  
 77 0.0 24.6 36.8#

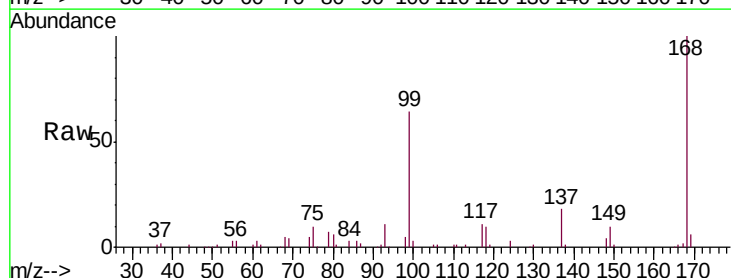


Abundance Ion 74.90 (74.60 to 75.60): VU0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VU0

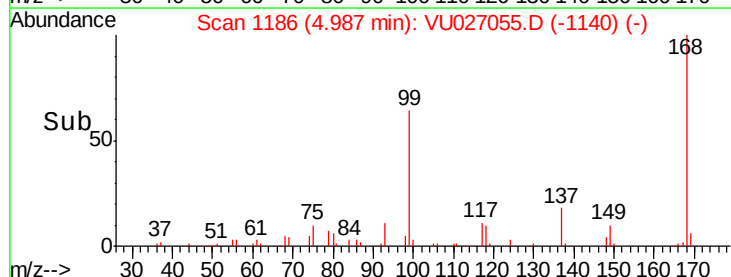
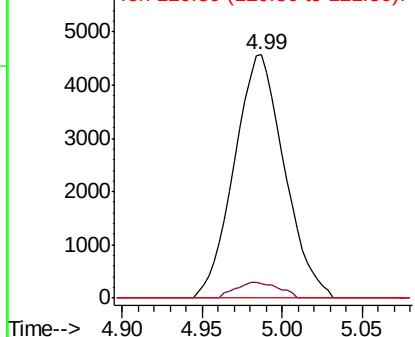


#38  
 Carbon Tetrachloride  
 Concen: 4.820 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027055.D  
 Acq: 23 Sep 2018 07:16

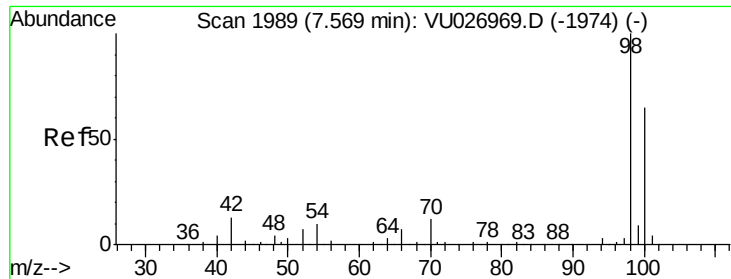
Tgt Ion: 117 Resp: 9804  
 Ion Ratio Lower Upper  
 117 100  
 119 5.9 74.4 111.6#  
 121 0.0 24.2 36.4#



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: 47.148 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VU027055.D

Acq: 23 Sep 2018 07:16

Instrument :

MSVOA\_U

ClientSampleId :

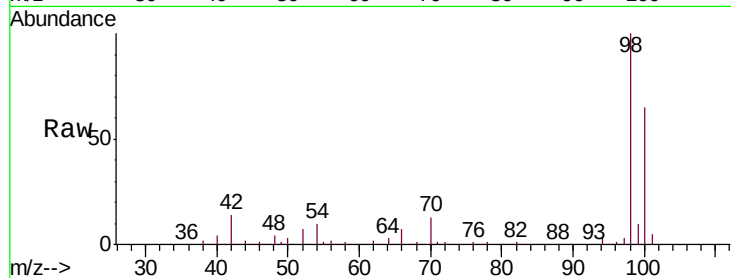
SA-PZ127I-20180914

Tgt Ion: 98 Resp: 249443

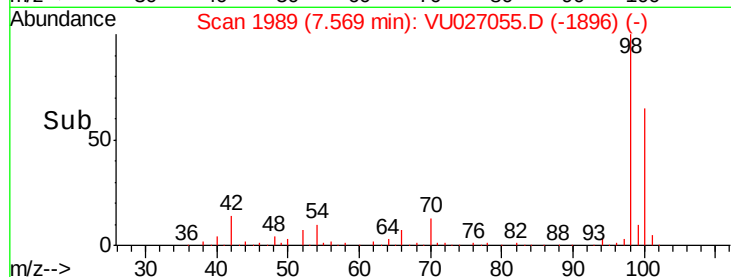
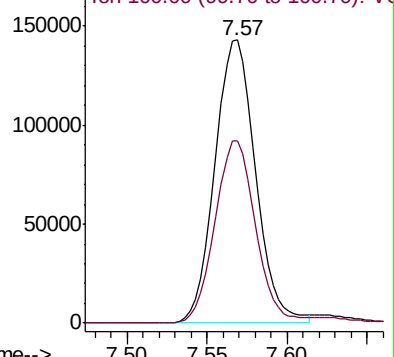
Ion Ratio Lower Upper

98 100

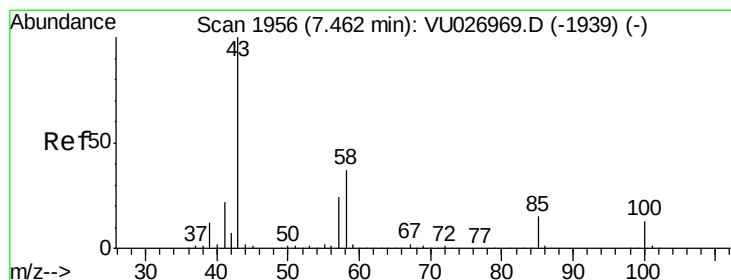
100 64.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.450 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU027055.D

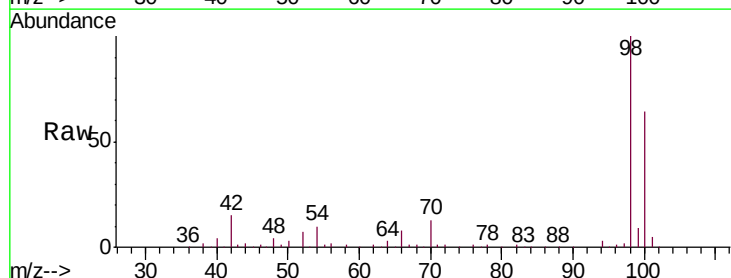
Acq: 23 Sep 2018 07:16

Tgt Ion: 43 Resp: 1278

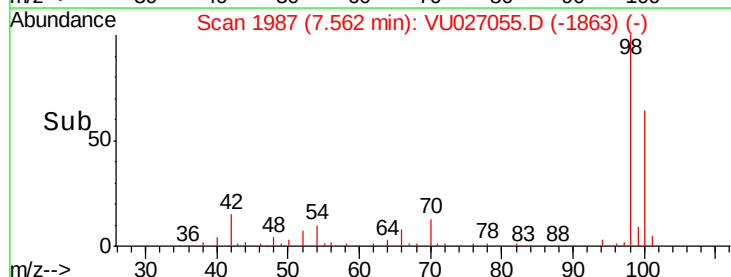
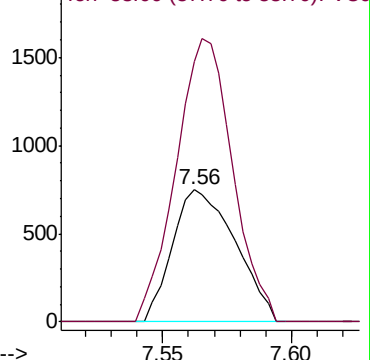
Ion Ratio Lower Upper

43 100

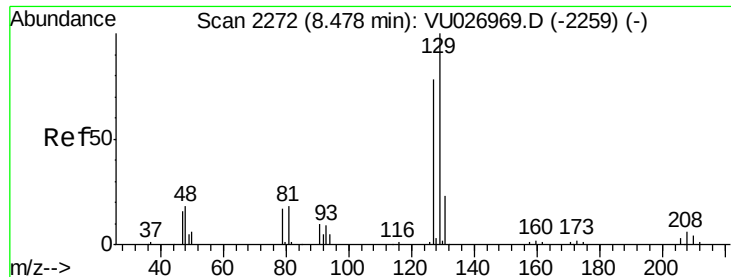
58 192.8 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)



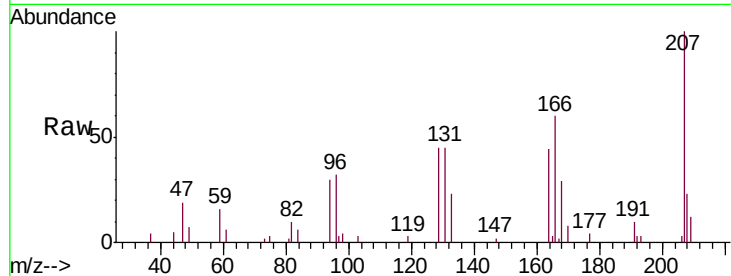
Time-->



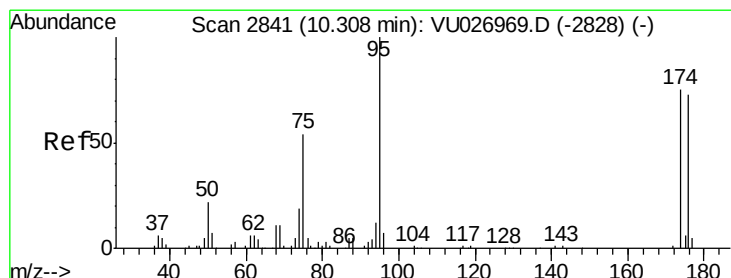
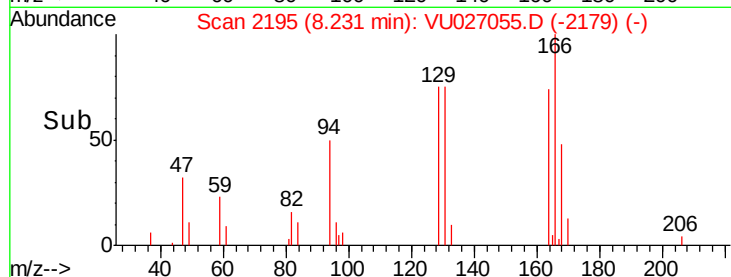
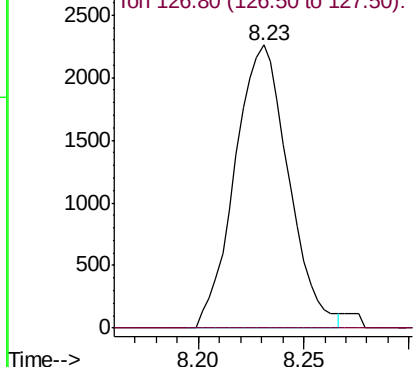
#60  
 Dibromochloromethane  
 Concen: 2.577 ug/l  
 RT: 8.23 min Scan# 2195  
 Delta R.T. -0.25 min  
 Lab File: VU027055.D  
 Acq: 23 Sep 2018 07:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ127I-20180914

Tgt Ion: 129 Resp: 3990  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 38.1 114.5#

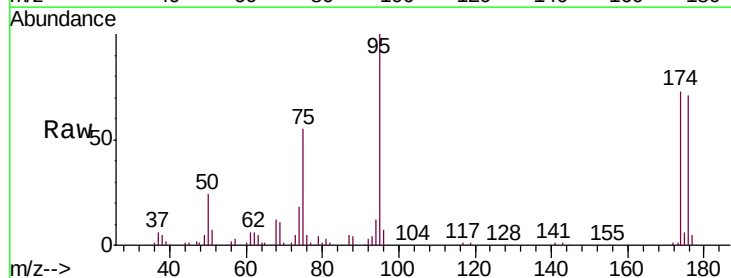


Abundance Ion 128.80 (128.50 to 129.50): V  
 Ion 126.80 (126.50 to 127.50): V

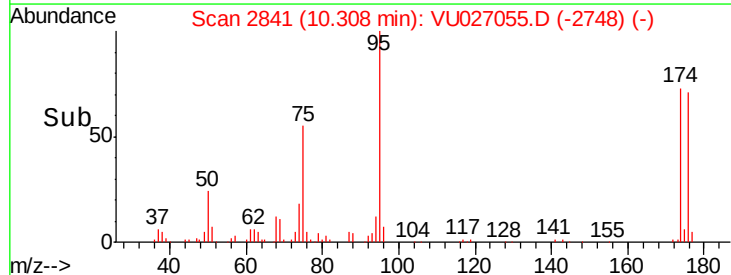
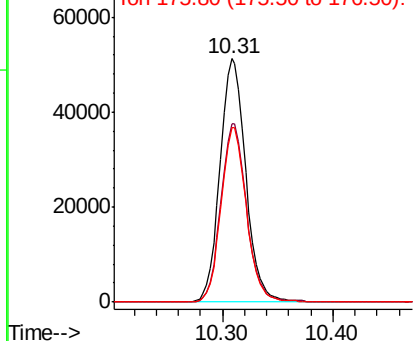


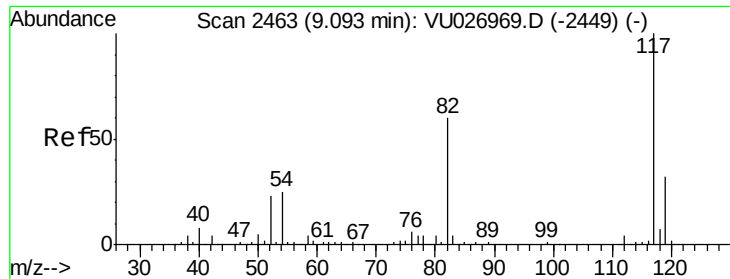
#62  
 4-Bromofluorobenzene  
 Concen: 45.935 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.00 min  
 Lab File: VU027055.D  
 Acq: 23 Sep 2018 07:16

Tgt Ion: 95 Resp: 83388  
 Ion Ratio Lower Upper  
 95 100  
 174 72.9 0.0 150.2  
 176 70.6 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0  
 Ion 173.80 (173.50 to 174.50): V  
 Ion 175.80 (175.50 to 176.50): V

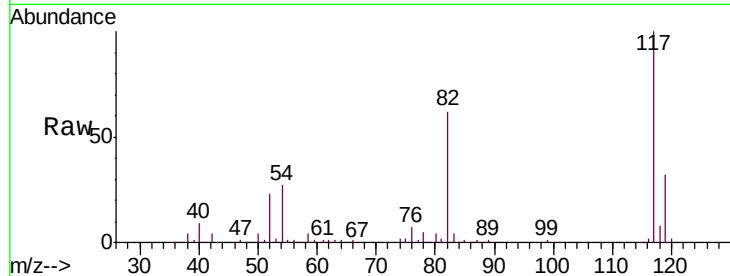




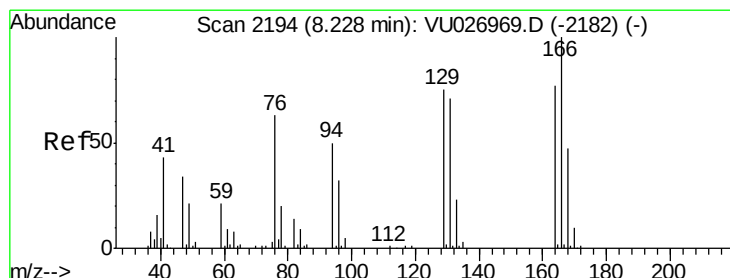
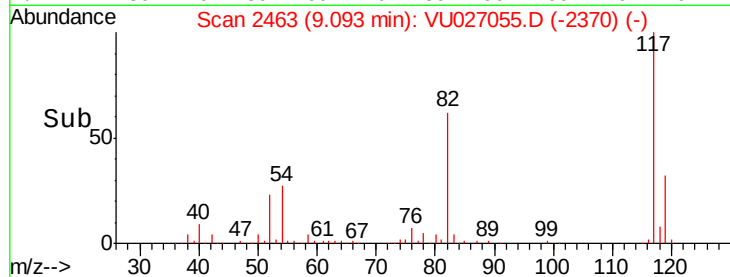
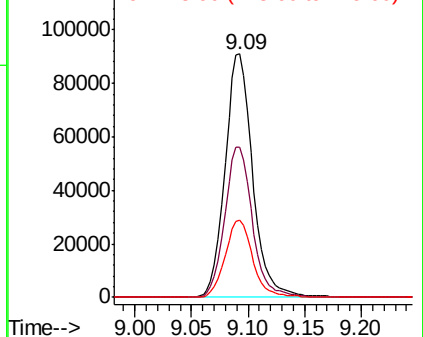
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. -0.00 min  
Lab File: VU027055.D  
Acq: 23 Sep 2018 07:16

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ127I-20180914

Tgt Ion:117 Resp: 154616  
Ion Ratio Lower Upper  
117 100  
82 61.7 48.0 72.0  
119 31.8 25.8 38.8



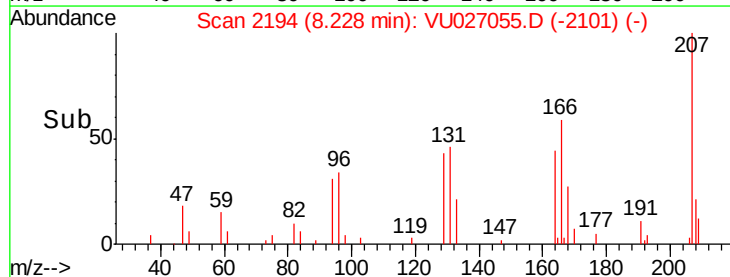
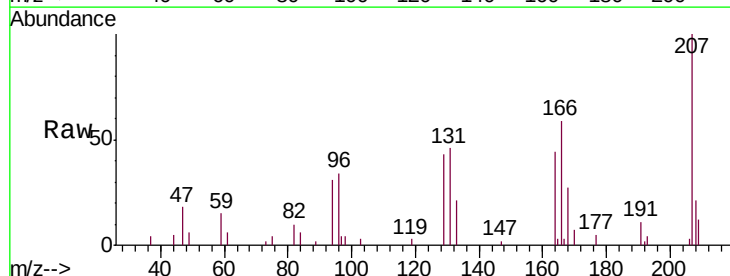
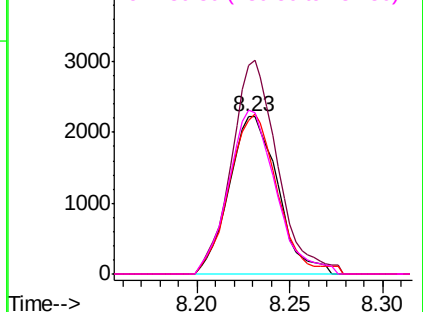
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

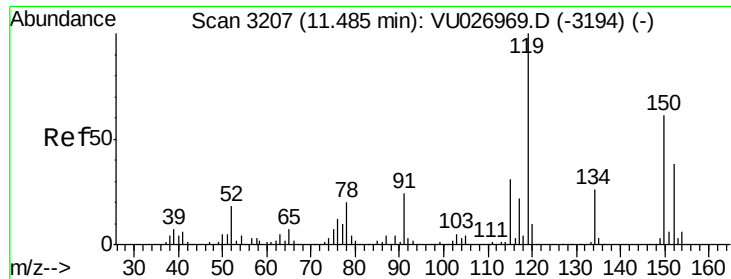


#64  
Tetrachloroethene  
Concen: 3.398 ug/l  
RT: 8.23 min Scan# 2194  
Delta R.T. -0.00 min  
Lab File: VU027055.D  
Acq: 23 Sep 2018 07:16

Tgt Ion:164 Resp: 4048  
Ion Ratio Lower Upper  
164 100  
166 132.7 104.4 156.6  
129 97.4 78.7 118.1  
131 103.9 73.9 110.9

Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): 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: VU027055.D

Acq: 23 Sep 2018 07:16

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ127I-20180914

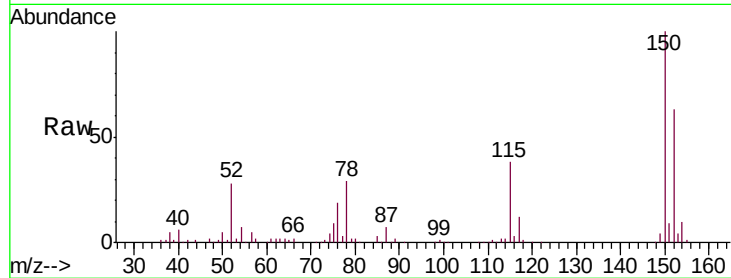
Tgt Ion: 152 Resp: 71178

Ion Ratio Lower Upper

152 100

115 61.6 44.9 134.5

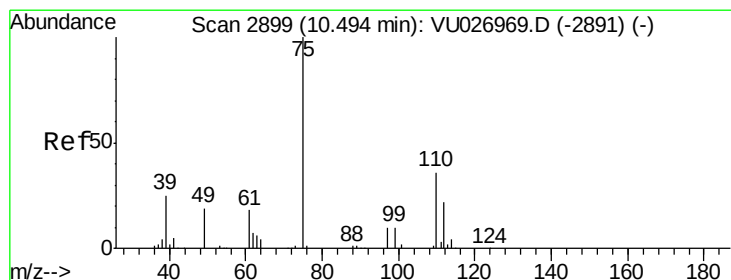
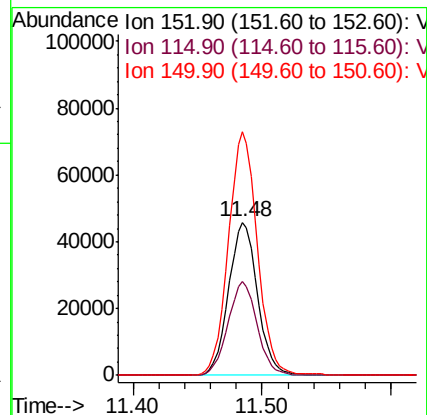
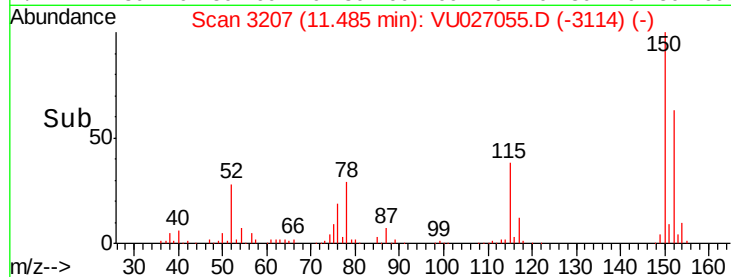
150 159.0 0.0 355.8



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: 21.060 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027055.D

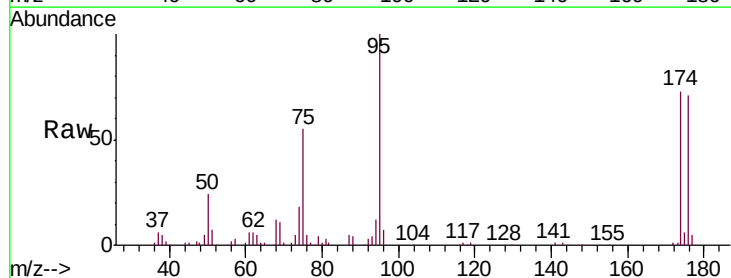
Acq: 23 Sep 2018 07:16

Tgt Ion: 75 Resp: 45539

Ion Ratio Lower Upper

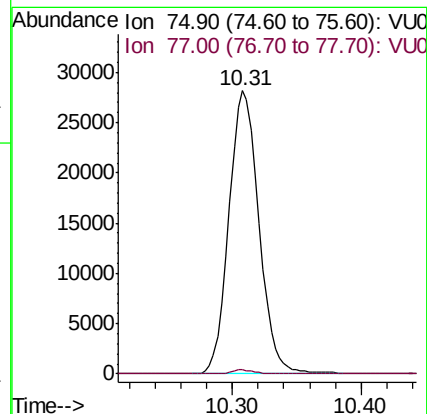
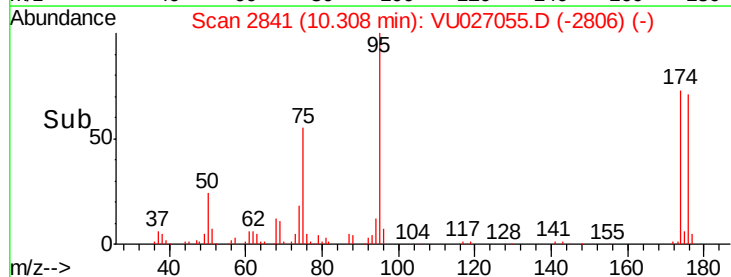
75 100

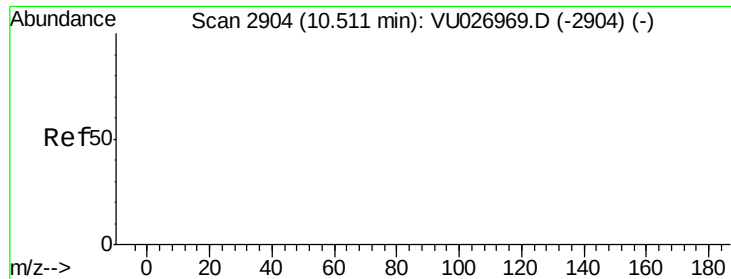
77 1.1 20.9 62.8#



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: 67.395 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

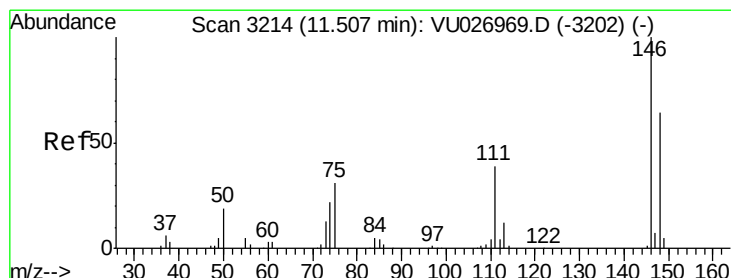
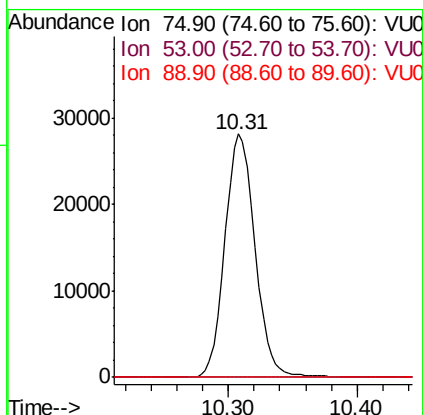
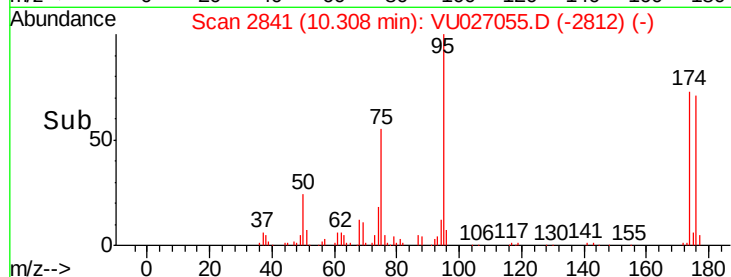
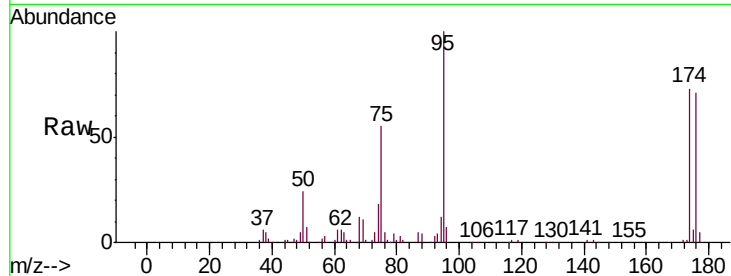
Lab File: VU027055.D

Acq: 23 Sep 2018 07:16

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ127I-20180914

Tgt Ion: 75 Resp: 45539

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 53  | 0.0   | 0.0   | 0.0   |
| 89  | 0.0   | 0.0   | 0.0   |



#88

1,4-Dichlorobenzene

Concen: 0.236 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU027055.D

Acq: 23 Sep 2018 07:16

Tgt Ion: 146 Resp: 634

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

