

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW012418\  
 Data File : VW000971.D  
 Acq On : 25 Jan 2018 01:38  
 Operator : JC/SY  
 Sample : J1288-04  
 Misc : 5.56G/5.0ML/MSVOA\_W/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EPE-108-4(84-86)

Quant Time: Jan 25 04:47:52 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W012318S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 23 13:31:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 135178   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 223817   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 130204   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 18587    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 95110    | 73.41 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 146.82% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 96620    | 70.47 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 140.94% |      |
| 50) Toluene-d8              | 10.33  | 98  | 250285   | 46.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.60%  |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 31980    | 16.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 32.50%  |      |

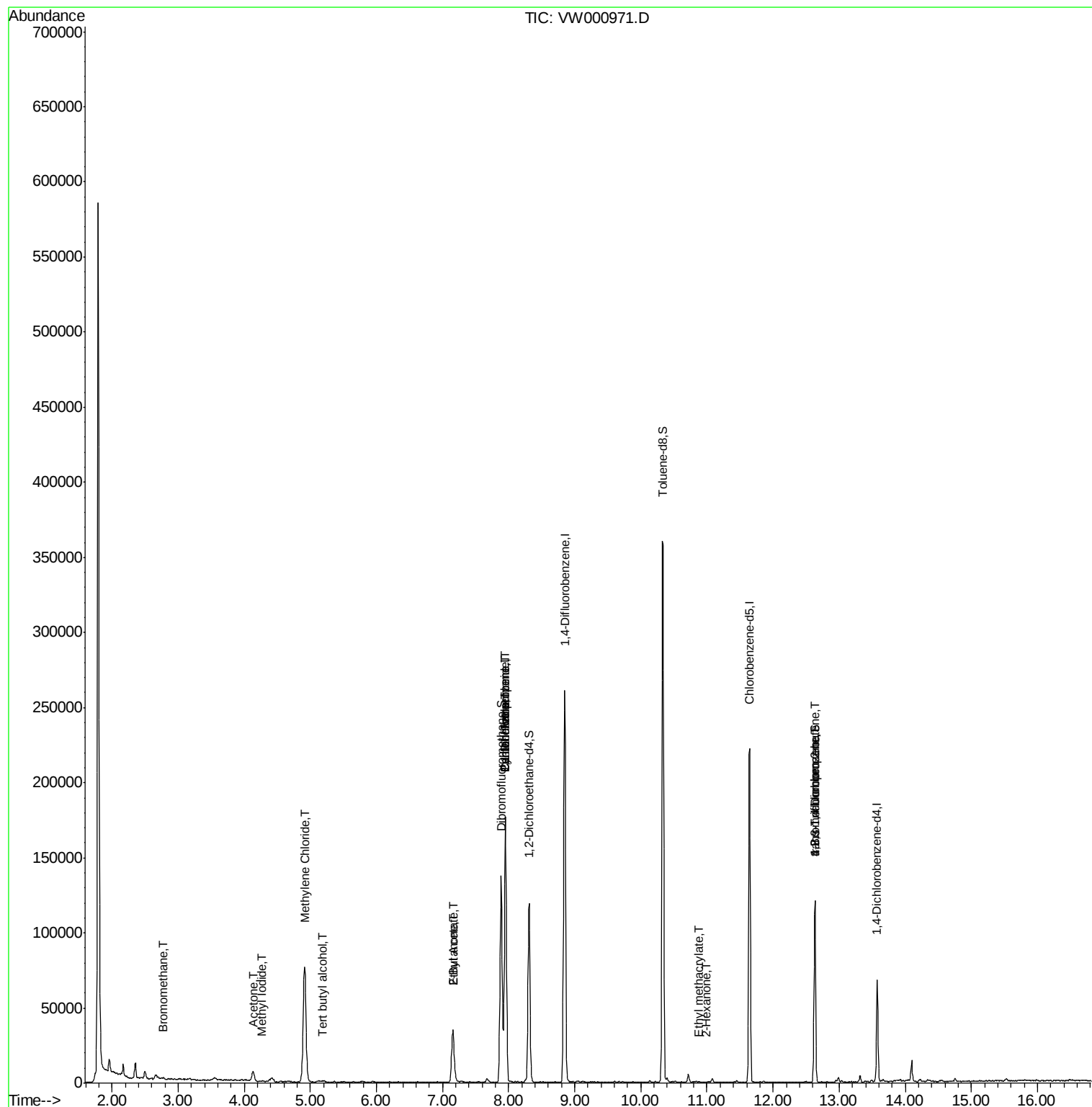
| Target Compounds               |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 5) Bromomethane                | 2.77  | 94  | 631   | 1.12   | ug/l # | 72     |
| 10) Methyl Iodide              | 4.26  | 142 | 515   | 5.20   | ug/l # | 55     |
| 11) Tert butyl alcohol         | 5.18  | 59  | 801   | 5.70   | ug/l   | 95     |
| 16) Acetone                    | 4.14  | 43  | 10061 | 34.41  | ug/l   | 99     |
| 20) Methylene Chloride         | 4.91  | 84  | 59824 | 51.34  | ug/l   | 92     |
| 25) 2-Butanone                 | 7.15  | 43  | 2735  | 4.77   | ug/l # | 48     |
| 31) Cyclohexane                | 7.95  | 56  | 2659  | 1.26   | ug/l # | 22     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 9758  | 4.57   | ug/l # | 49     |
| 37) Ethyl Acetate              | 7.15  | 43  | 2735  | 2.27   | ug/l # | 25     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 13169 | 5.59   | ug/l # | 17     |
| 56) Ethyl methacrylate         | 10.87 | 69  | 20    | 3.26   | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.98 | 43  | 110   | 14.77  | ug/l # | 24     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 16122 | 74.96  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 16122 | 175.54 | ug/l # | 11     |

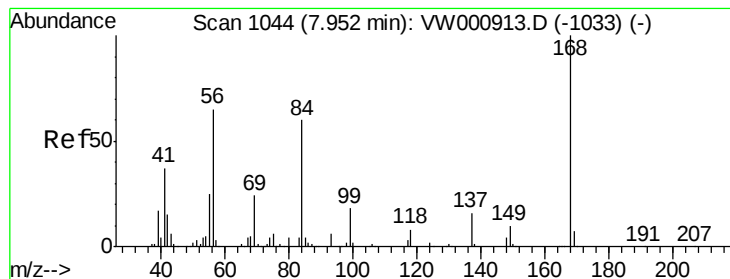
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EPE-108-4(84-86)

Quant Time: Jan 25 04:47:52 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W012318S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 23 13:31:00 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Instrument :

MSVOA\_W

ClientSampleId :

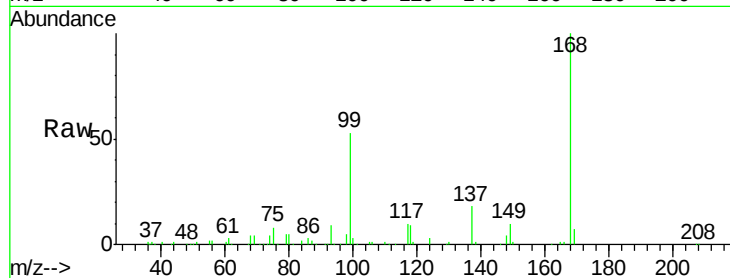
EPE-108-4(84-86)

Tgt Ion:168 Resp: 135178

Ion Ratio Lower Upper

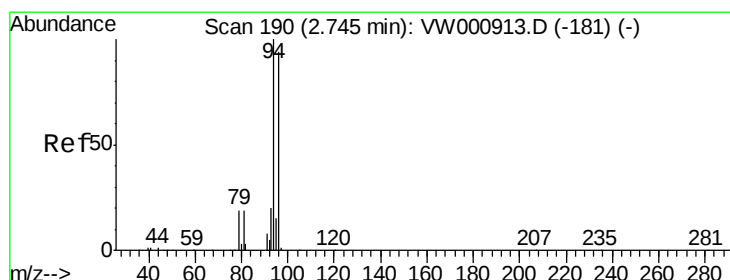
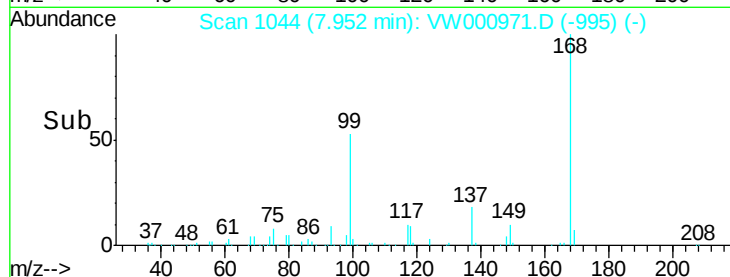
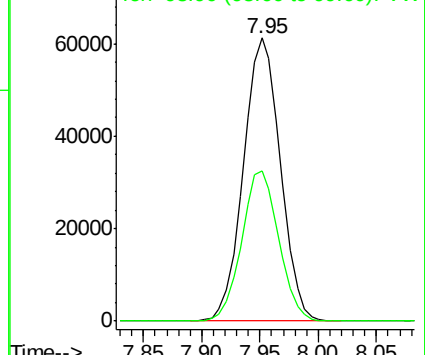
168 100

99 53.2 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#5

Bromomethane

Concen: 1.12 ug/l

RT: 2.77 min Scan# 194

Delta R.T. 0.02 min

Lab File: VW000971.D

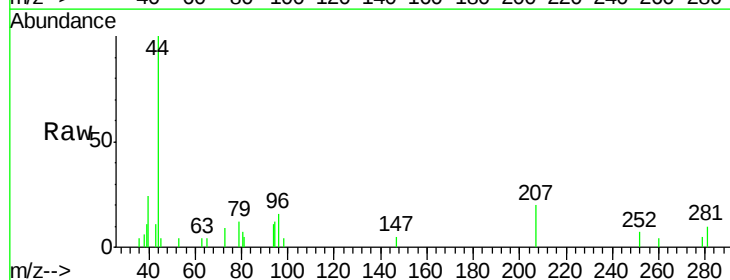
Acq: 25 Jan 2018 01:38

Tgt Ion: 94 Resp: 631

Ion Ratio Lower Upper

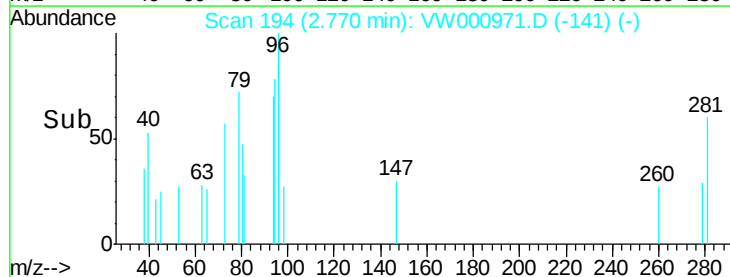
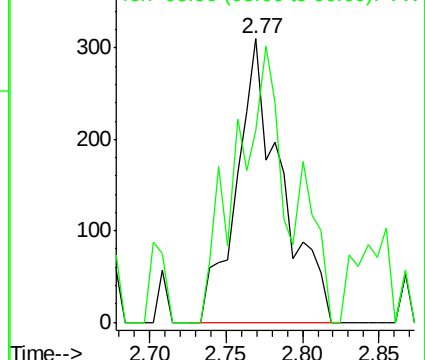
94 100

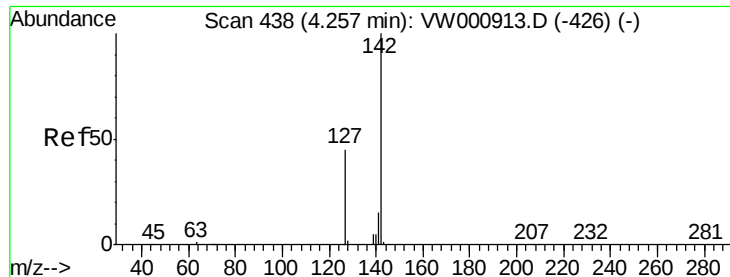
96 67.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

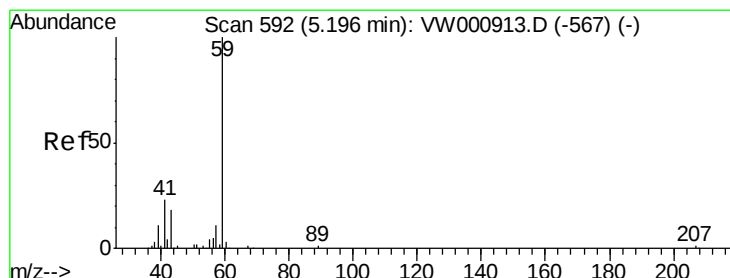
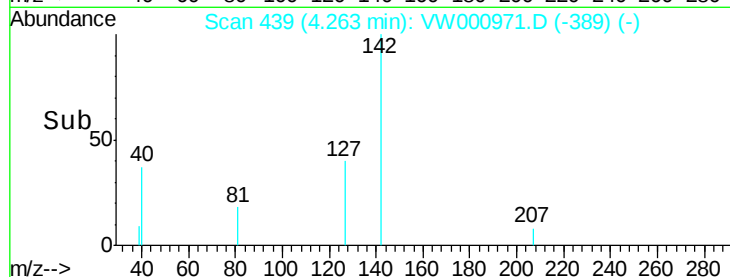
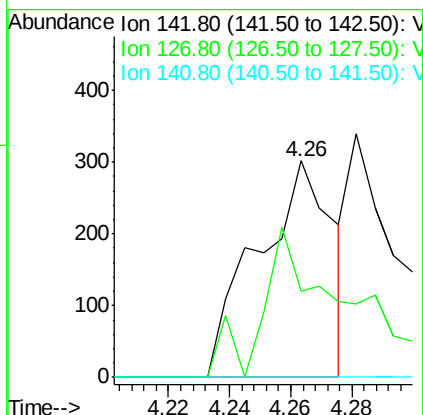
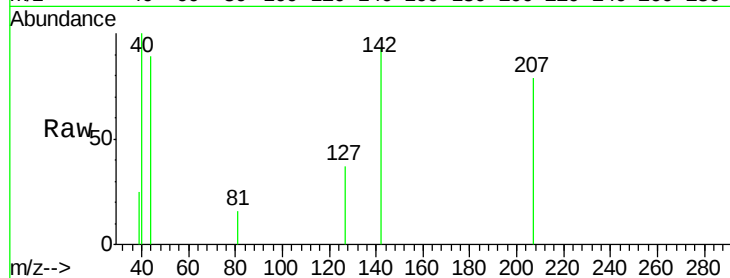




#10  
Methyl Iodide  
Concen: 5.20 ug/l  
RT: 4.26 min Scan# 439  
Delta R.T. 0.01 min  
Lab File: VW000971.D  
Acq: 25 Jan 2018 01:38

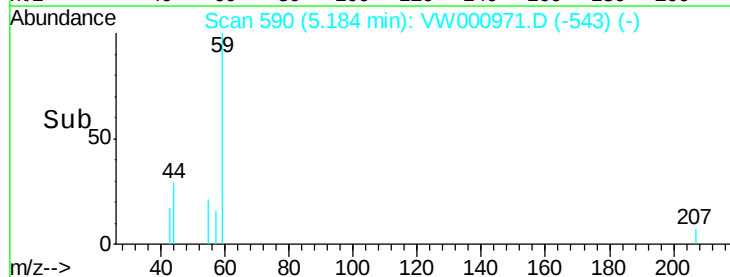
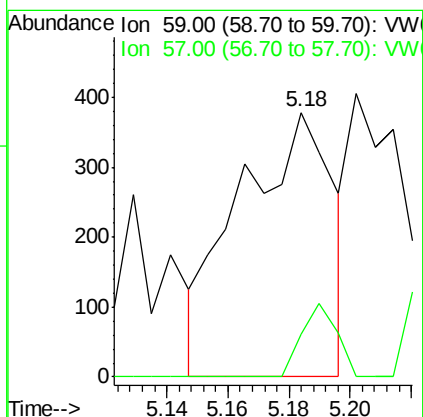
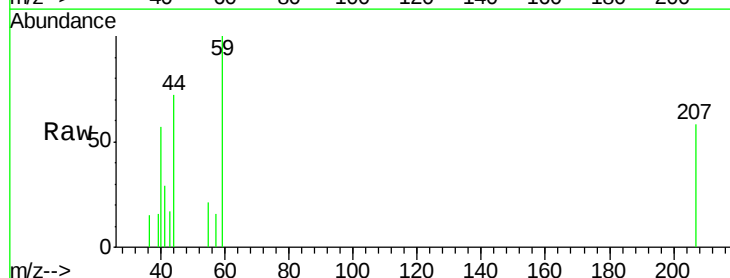
Instrument :  
MSVOA\_W  
ClientSampleId :  
EPE-108-4(84-86)

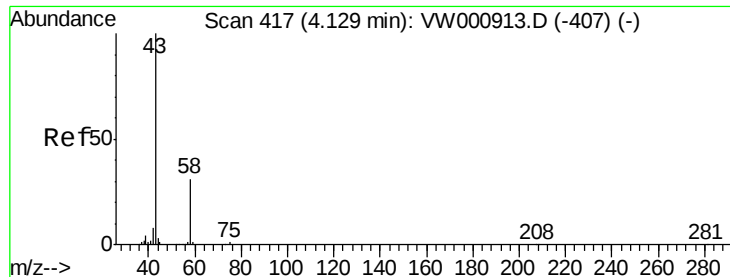
Tgt Ion: 142 Resp: 515  
Ion Ratio Lower Upper  
142 100  
127 75.7 35.5 53.3#  
141 0.0 11.7 17.5#



#11  
Tert butyl alcohol  
Concen: 5.70 ug/l  
RT: 5.18 min Scan# 590  
Delta R.T. -0.01 min  
Lab File: VW000971.D  
Acq: 25 Jan 2018 01:38

Tgt Ion: 59 Resp: 801  
Ion Ratio Lower Upper  
59 100  
57 10.5 7.0 10.6





#16

Acetone

Concen: 34.41 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.01 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Instrument :

MSVOA\_W

ClientSampleId :

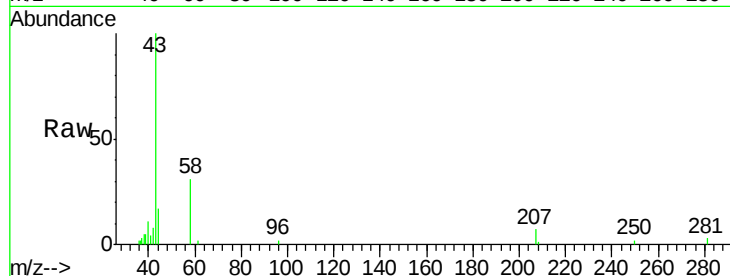
EPE-108-4(84-86)

Tgt Ion: 43 Resp: 10061

Ion Ratio Lower Upper

43 100

58 30.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

4000

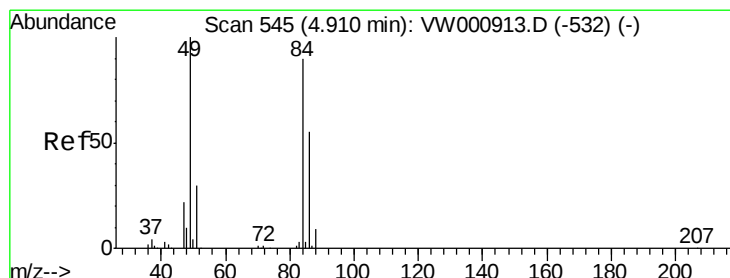
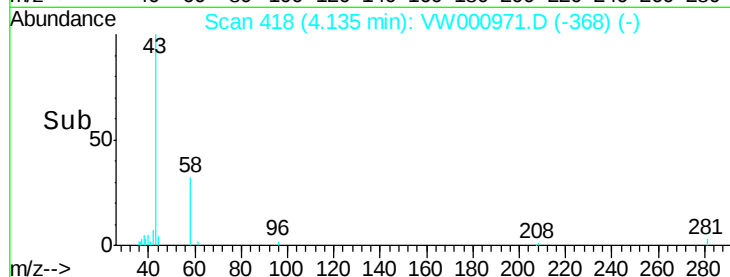
3000

2000

1000

0

Time-->



#20

Methylene Chloride

Concen: 51.34 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Tgt Ion: 84 Resp: 59824

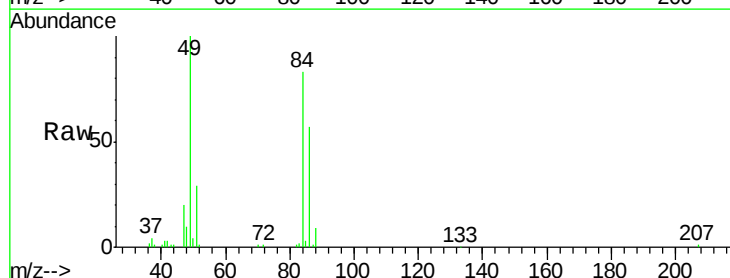
Ion Ratio Lower Upper

84 100

49 120.4 89.0 133.4

51 34.8 26.7 40.1

86 68.3 48.7 73.1



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

4.91

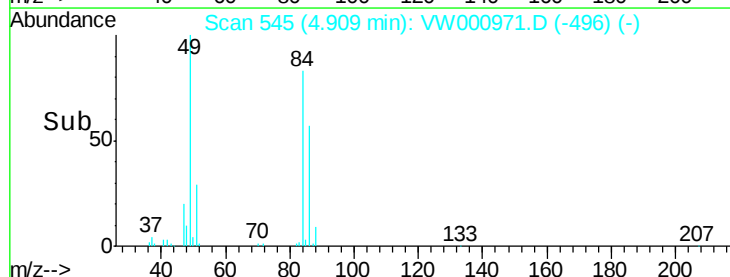
30000

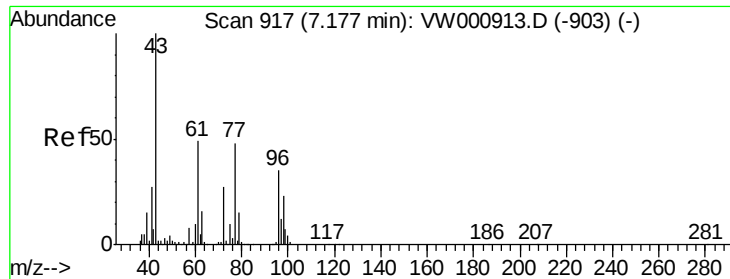
20000

10000

0

Time-->

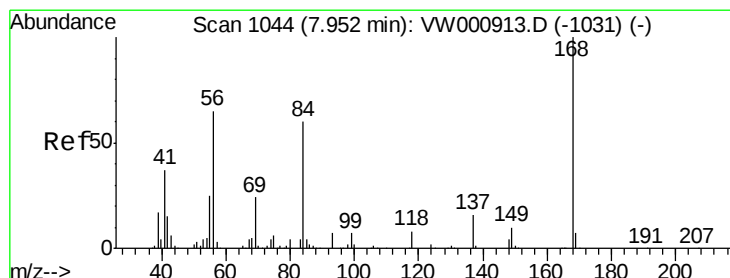
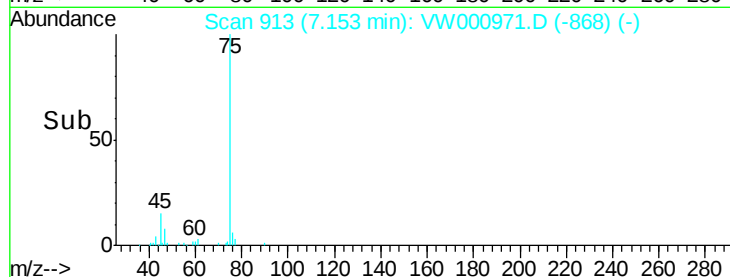
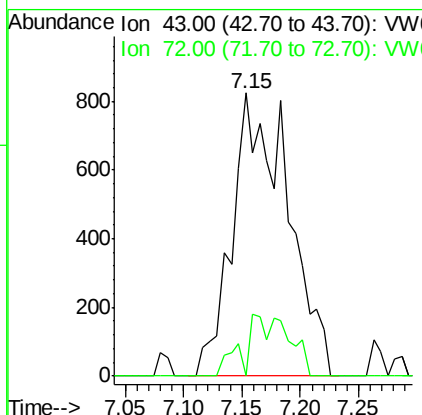
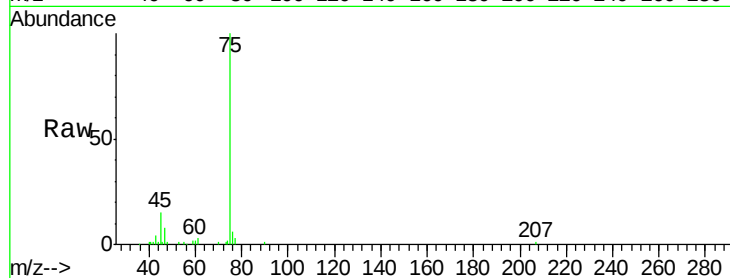




#25  
2-Butanone  
Concen: 4.77 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.02 min  
Lab File: VW000971.D  
Acq: 25 Jan 2018 01:38

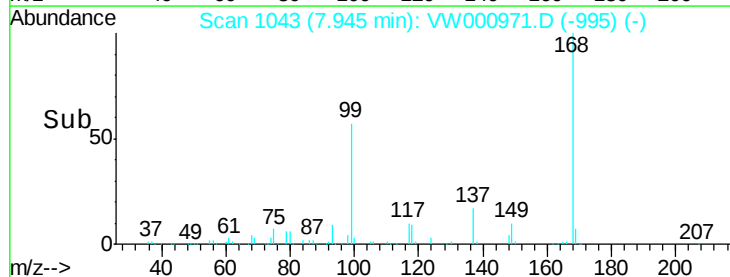
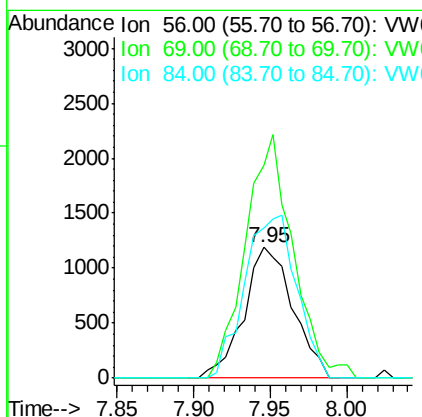
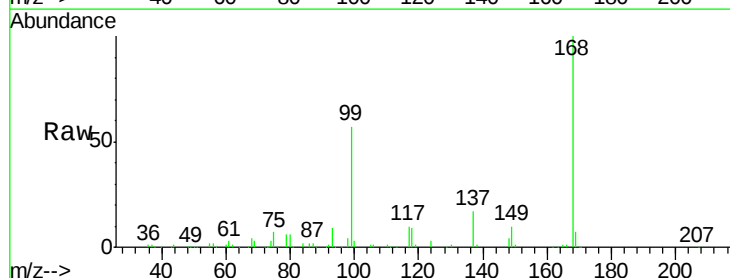
Instrument :  
MSVOA\_W  
ClientSampleId :  
EPE-108-4(84-86)

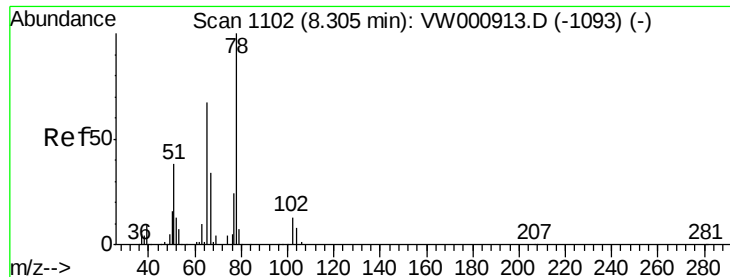
Tgt Ion: 43 Resp: 2735  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.5 32.3#



#31  
Cyclohexane  
Concen: 1.26 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW000971.D  
Acq: 25 Jan 2018 01:38

Tgt Ion: 56 Resp: 2659  
Ion Ratio Lower Upper  
56 100  
69 163.2 29.2 43.8#  
84 114.8 73.6 110.4#

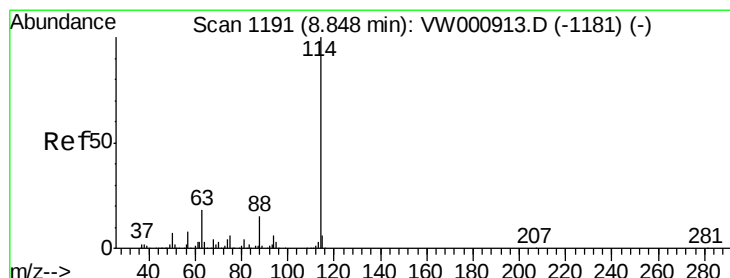
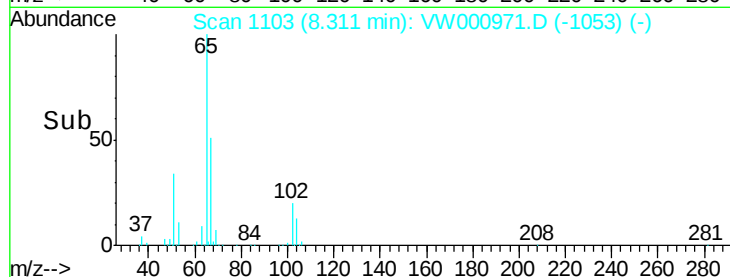
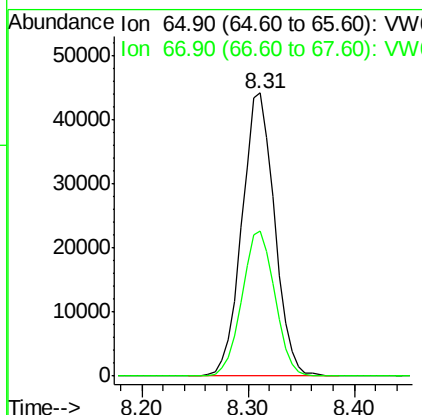
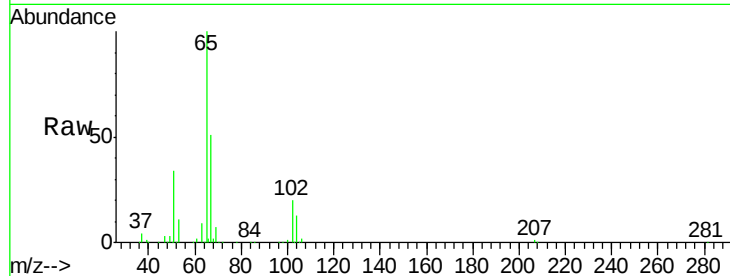




#33  
 1,2-Dichloroethane-d4  
 Concen: 73.41 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.01 min  
 Lab File: VW000971.D  
 Acq: 25 Jan 2018 01:38

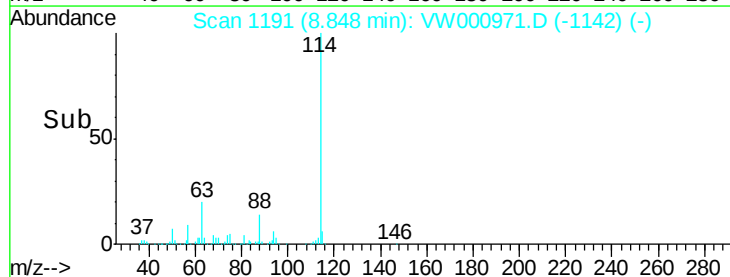
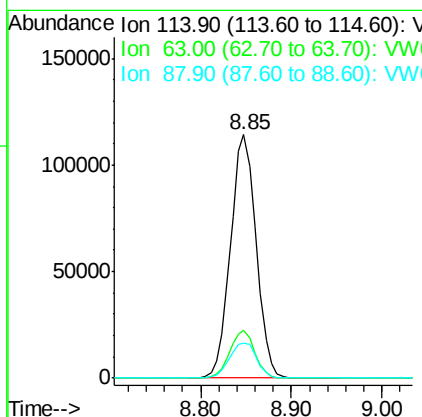
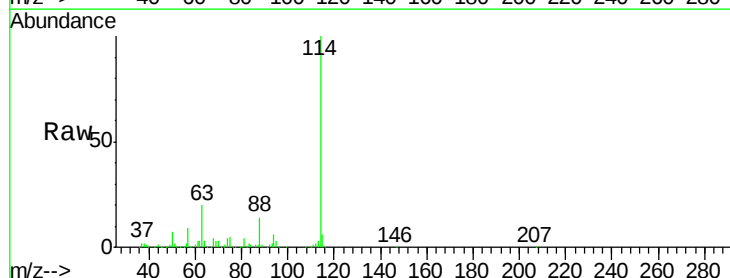
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 MSVOA\_W  
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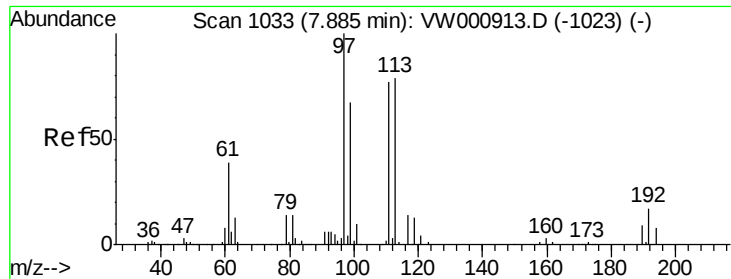
Tgt Ion: 65 Resp: 95110  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW000971.D  
 Acq: 25 Jan 2018 01:38

Tgt Ion: 114 Resp: 223817  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 36.8  
 88 14.5 0.0 29.8





#35

Dibromofluoromethane

Concen: 70.47 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. -0.00 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Instrument :  
MSVOA\_W  
ClientSampleId :  
EPE-108-4(84-86)

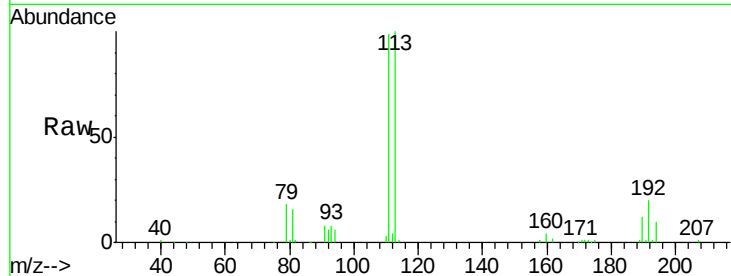
Tgt Ion:113 Resp: 96620

Ion Ratio Lower Upper

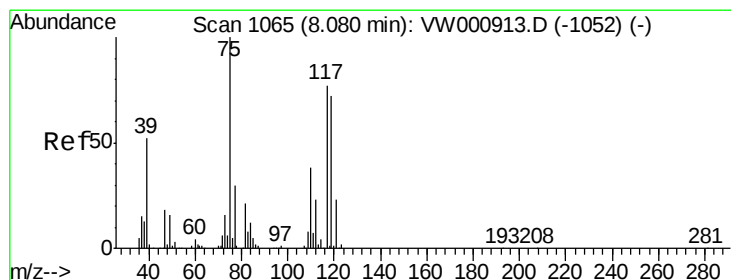
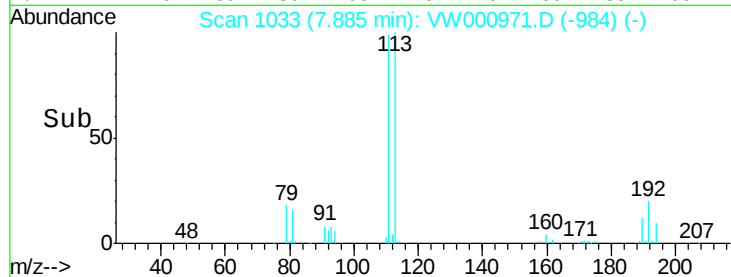
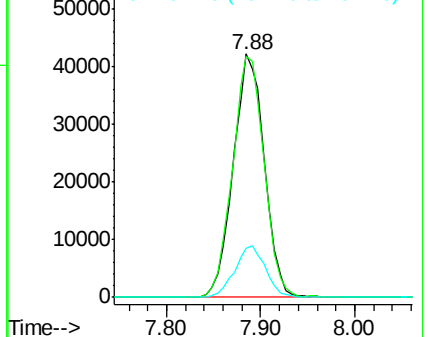
113 100

111 100.4 80.4 120.6

192 21.0 17.0 25.4



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: 4.57 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

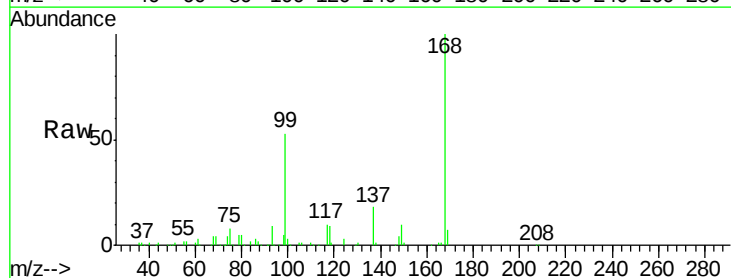
Tgt Ion: 75 Resp: 9758

Ion Ratio Lower Upper

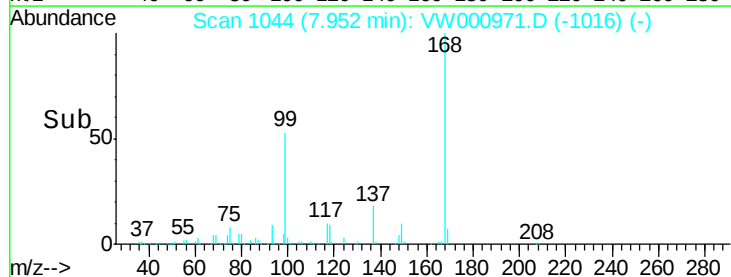
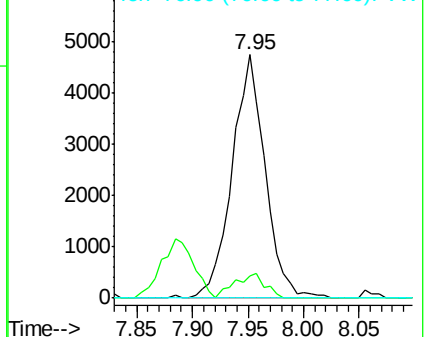
75 100

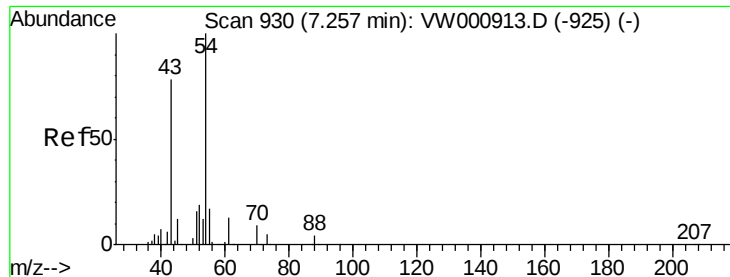
110 9.3 18.6 56.0#

77 0.0 24.6 36.8#



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





#37

Ethyl Acetate

Concen: 2.27 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.10 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Instrument :

MSVOA\_W

ClientSampleId :

EPE-108-4(84-86)

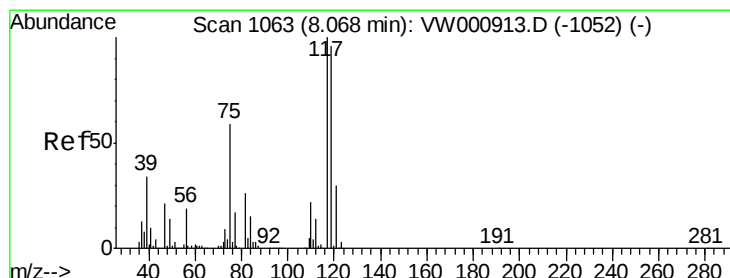
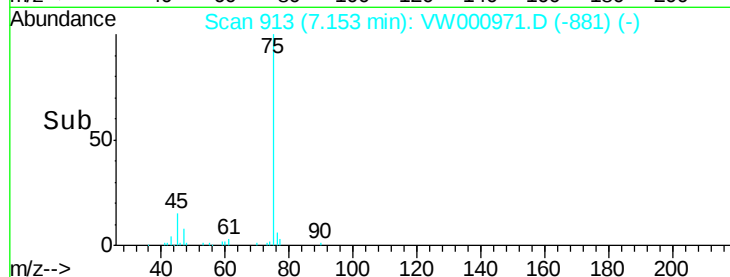
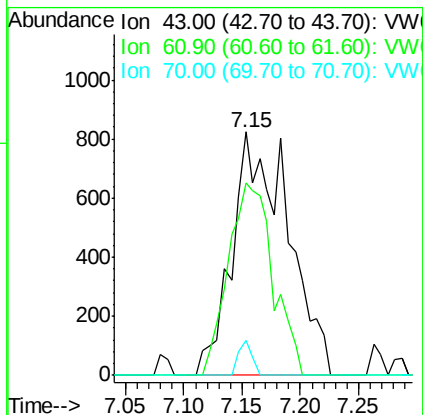
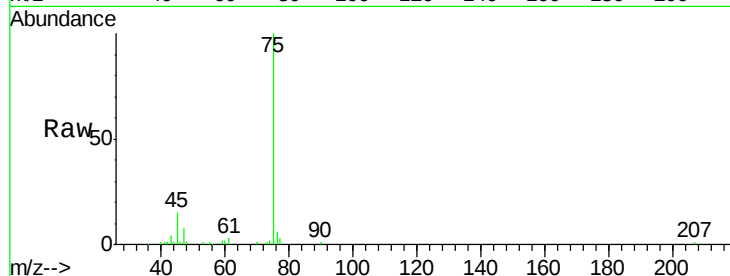
Tgt Ion: 43 Resp: 2735

Ion Ratio Lower Upper

43 100

61 63.5 12.1 18.1#

70 3.5 9.1 13.7#



#38

Carbon Tetrachloride

Concen: 5.59 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

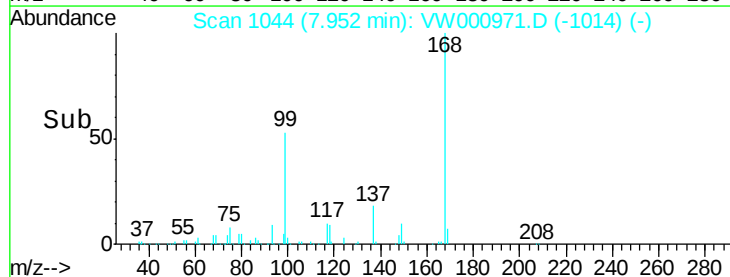
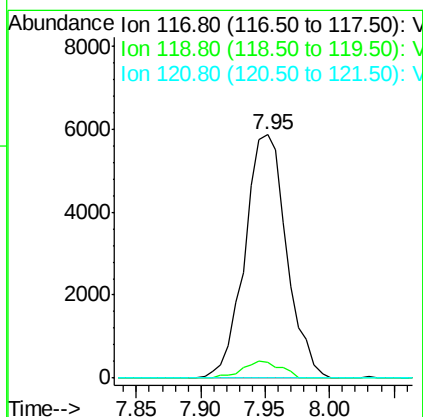
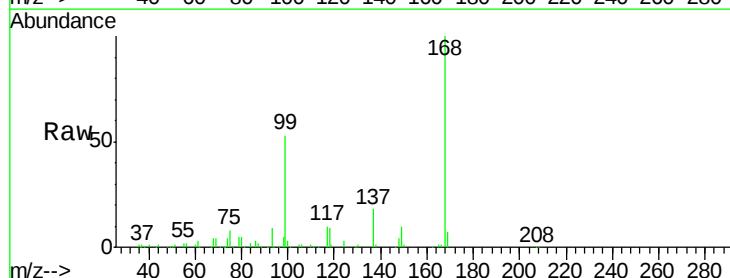
Tgt Ion: 117 Resp: 13169

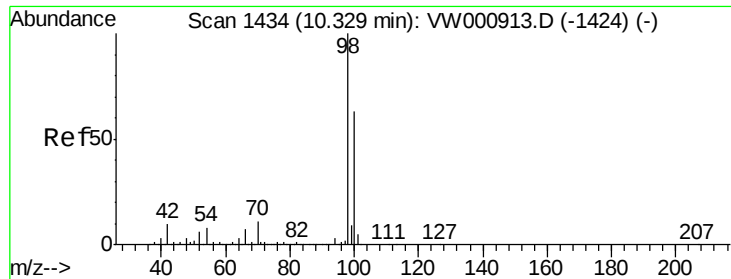
Ion Ratio Lower Upper

117 100

119 6.7 76.5 114.7#

121 0.0 24.3 36.5#





#50

Toluene-d8

Concen: 46.30 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Instrument :

MSVOA\_W

ClientSampleId :

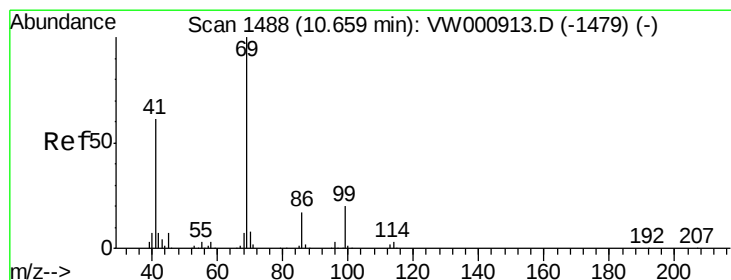
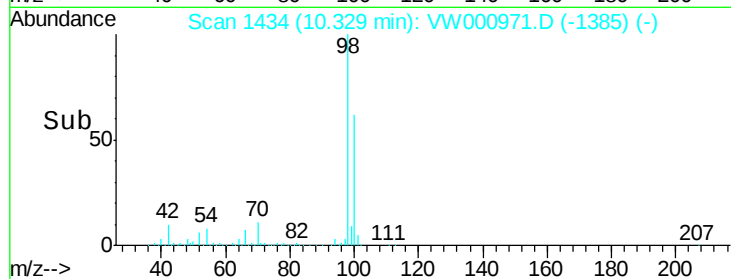
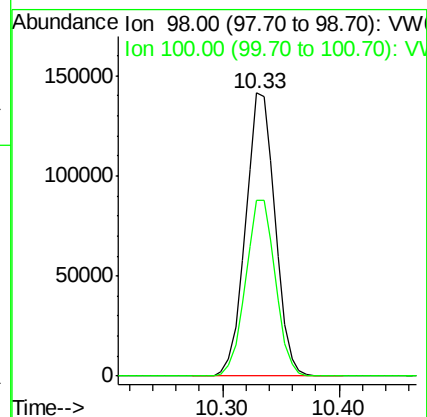
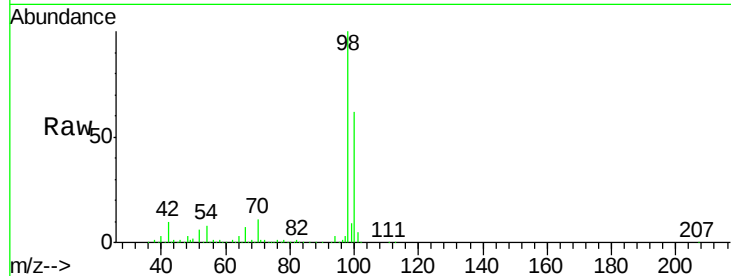
EPE-108-4(84-86)

Tgt Ion: 98 Resp: 250285

Ion Ratio Lower Upper

98 100

100 62.6 50.8 76.2



#56

Ethyl methacrylate

Concen: 3.26 ug/l

RT: 10.87 min Scan# 1523

Delta R.T. 0.21 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

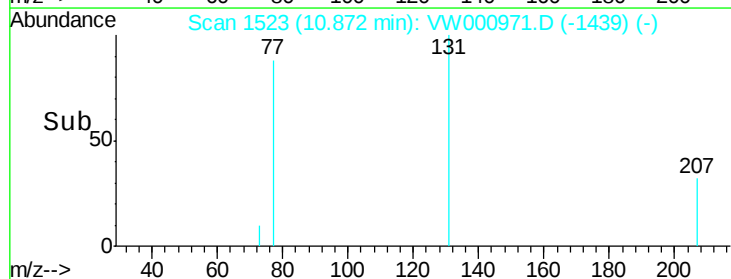
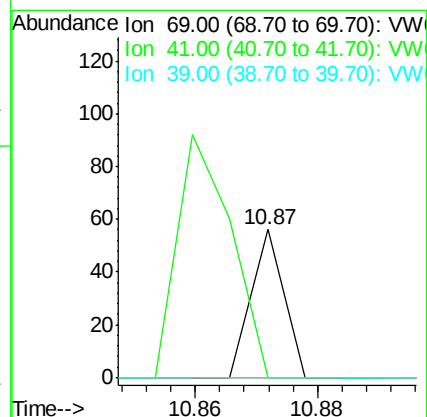
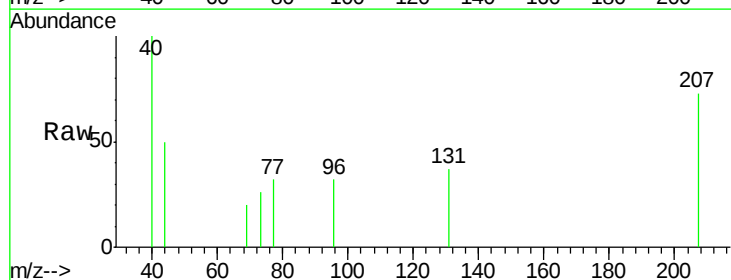
Tgt Ion: 69 Resp: 20

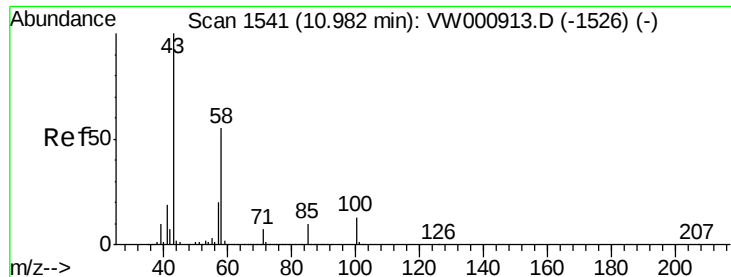
Ion Ratio Lower Upper

69 100

41 280.0 50.3 75.5#

39 0.0 28.6 42.8#





#59

2-Hexanone

Concen: 14.77 ug/l

RT: 10.98 min Scan# 1541

Delta R.T. 0.00 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Instrument :

MSVOA\_W

ClientSampleId :

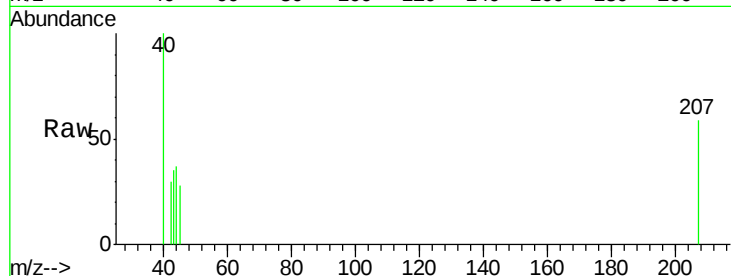
EPE-108-4(84-86)

Tgt Ion: 43 Resp: 110

Ion Ratio Lower Upper

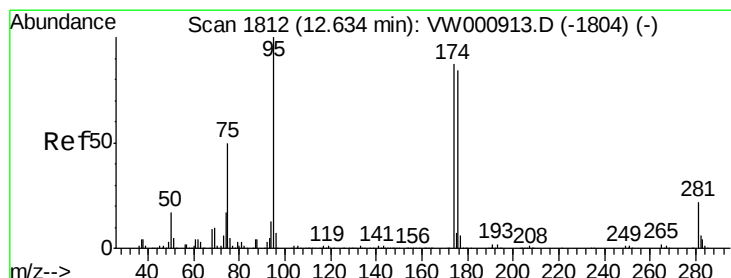
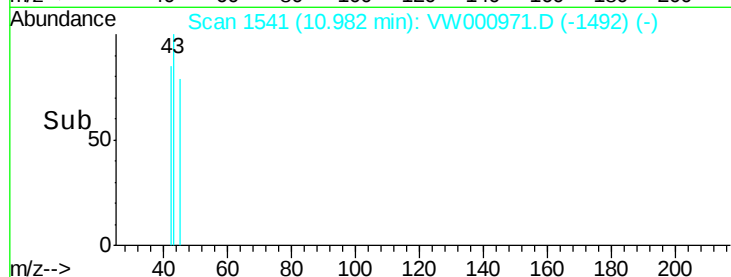
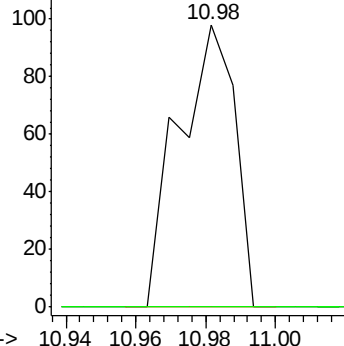
43 100

58 0.0 27.4 82.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 16.25 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

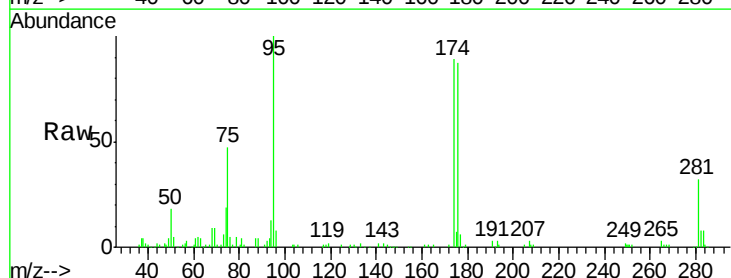
Tgt Ion: 95 Resp: 31980

Ion Ratio Lower Upper

95 100

174 89.1 0.0 176.8

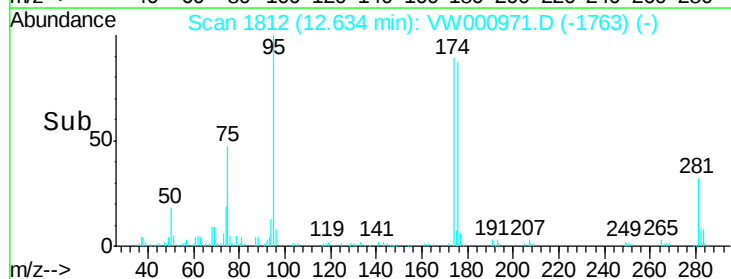
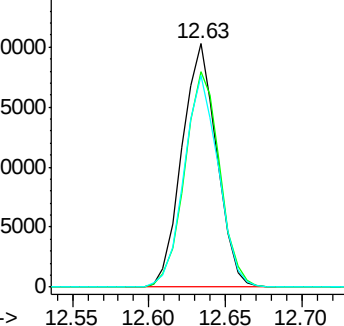
176 86.2 0.0 171.8

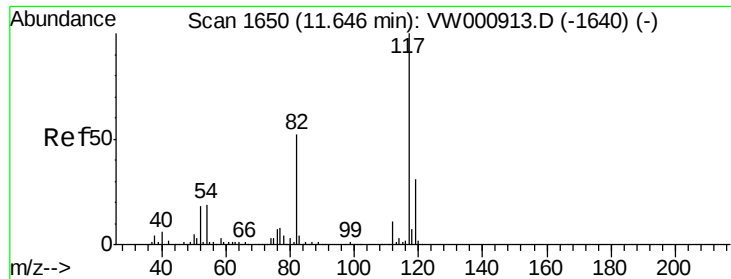


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

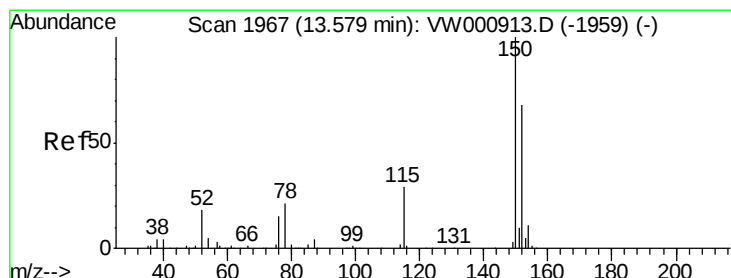
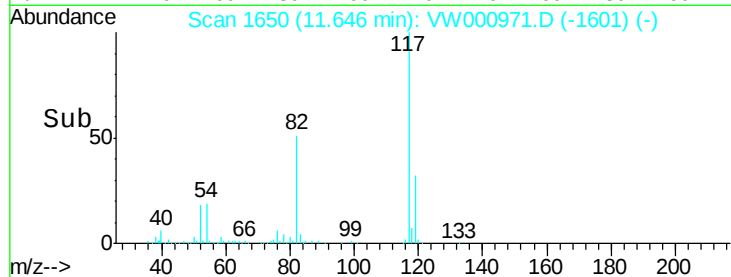
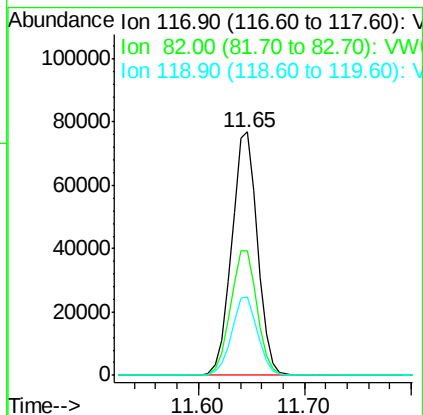
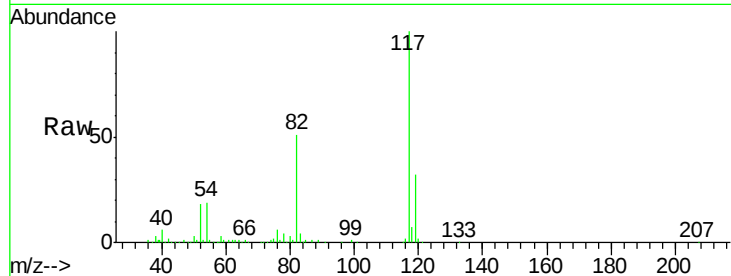




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.65 min Scan# 1650  
Delta R.T. -0.00 min  
Lab File: VW000971.D  
Acq: 25 Jan 2018 01:38

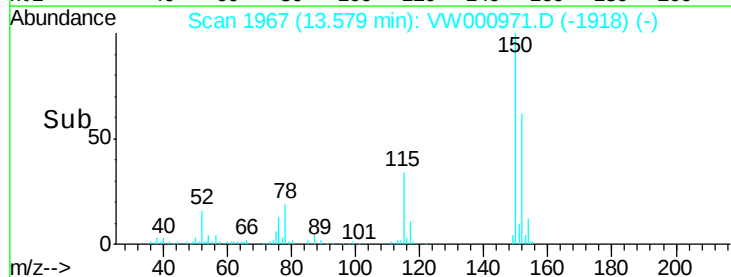
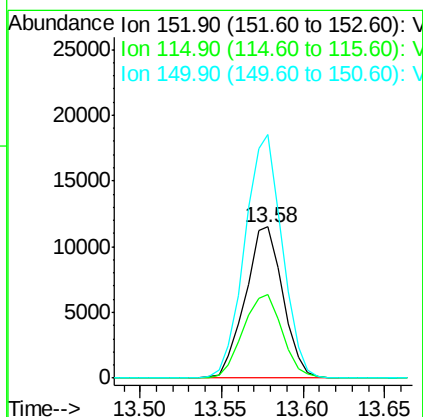
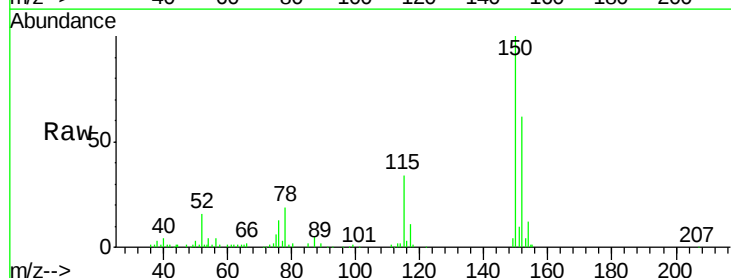
Instrument :  
MSVOA\_W  
ClientSampleId :  
EPE-108-4(84-86)

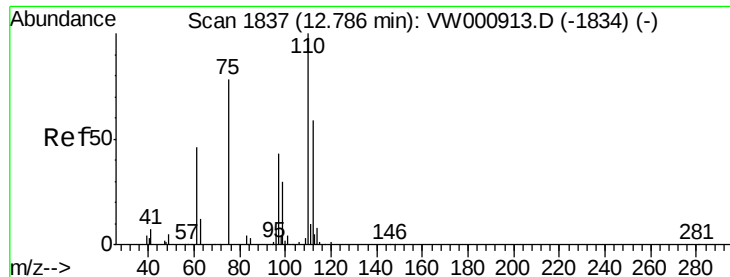
Tgt Ion:117 Resp: 130204  
Ion Ratio Lower Upper  
117 100  
82 50.9 41.8 62.6  
119 32.2 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.58 min Scan# 1967  
Delta R.T. -0.00 min  
Lab File: VW000971.D  
Acq: 25 Jan 2018 01:38

Tgt Ion:152 Resp: 18587  
Ion Ratio Lower Upper  
152 100  
115 57.3 28.5 85.5  
150 159.0 0.0 342.0





#76

1,2,3-Trichloropropane

Concen: 74.96 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.16 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

Instrument :

MSVOA\_W

ClientSampleId :

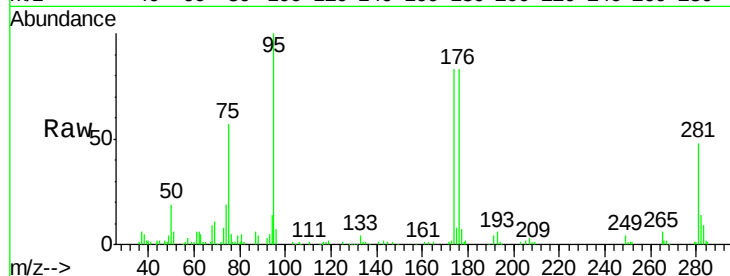
EPE-108-4(84-86)

Tgt Ion: 75 Resp: 16122

Ion Ratio Lower Upper

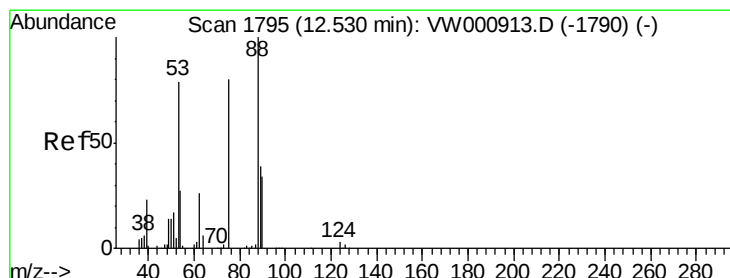
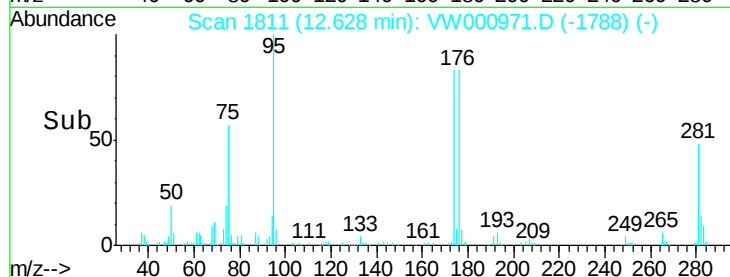
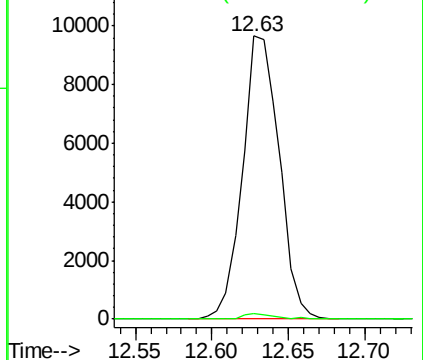
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 175.54 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW000971.D

Acq: 25 Jan 2018 01:38

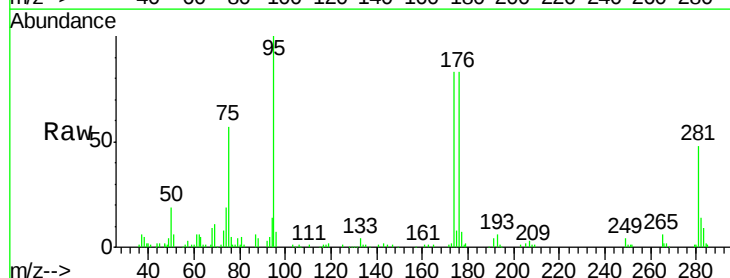
Tgt Ion: 75 Resp: 16122

Ion Ratio Lower Upper

75 100

53 0.3 77.5 116.3#

89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

