

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU101118\  
 Data File : VU027607.D  
 Acq On : 11 Oct 2018 18:27  
 Operator : MD/SY  
 Sample : J5455-05  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MS-OILY-WATER

Quant Time: Oct 12 02:58:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U101118W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 11 10:41:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 113606   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 193473   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 178045   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 69969    | 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   | 94601    | 53.79 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.58% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 66353    | 51.84 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.68% |          |
| 50) Toluene-d8              | 7.57  | 98   | 246069   | 50.48 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.96% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 79387    | 45.16 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.32%  |          |

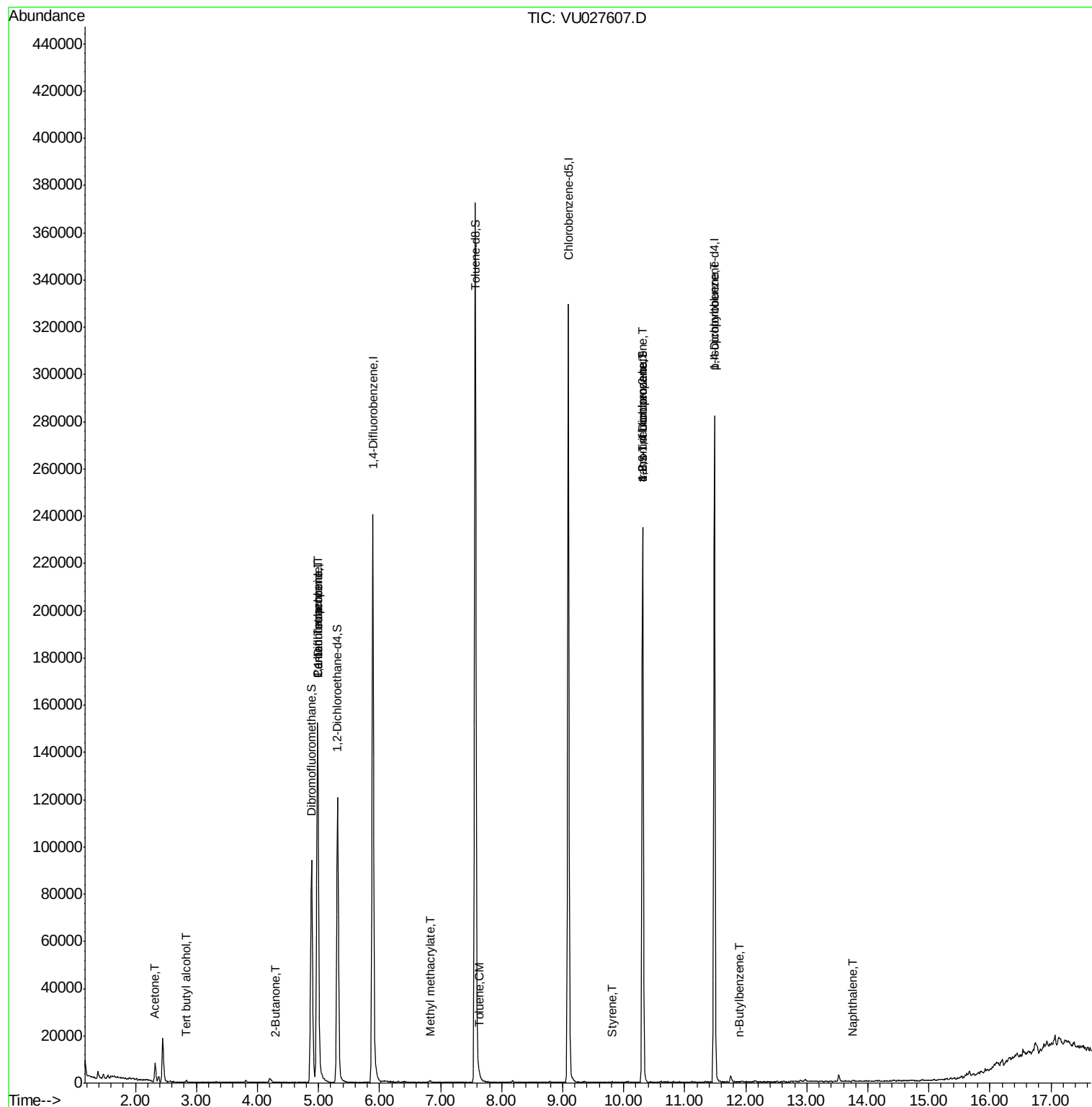
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.63  | 64   | 298      | Below Cal | #      | 44     |
| 11) Tert butyl alcohol         | 2.84  | 59   | 1021     | 2.382     | ug/l # | 72     |
| 16) Acetone                    | 2.32  | 43   | 8384     | 7.820     | ug/l   | 98     |
| 25) 2-Butanone                 | 4.30  | 43   | 477      | 0.314     | ug/l # | 54     |
| 31) Cyclohexane                | 4.98  | 56   | 2689     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 10078    | 5.128     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 11580    | 6.391     | ug/l # | 17     |
| 48) Methyl methacrylate        | 6.83  | 41   | 393      | 1.659     | ug/l # | 18     |
| 52) Toluene                    | 7.64  | 92   | 849      | 0.250     | ug/l   | 95     |
| 70) Styrene                    | 9.81  | 104  | 19       | 1.261     | ug/l # | 24     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 41906    | 20.877    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 41906    | 24.603    | ug/l # | 100    |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 89       | 0.499     | ug/l # | 1      |
| 89) n-Butylbenzene             | 11.89 | 91   | 135      | 1.590     | ug/l # | 33     |
| 95) Naphthalene                | 13.75 | 128  | 794      | 1.417     | ug/l # | 69     |

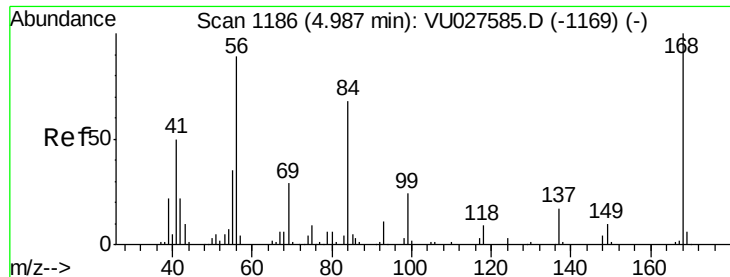
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU101118\  
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Sample : J5455-05  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MS-OILY-WATER

Quant Time: Oct 12 02:58:11 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U101118W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 11 10:41:56 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: VU027607.D

Acq: 11 Oct 2018 18:27

Instrument :

MSVOA\_U

ClientSampleId :

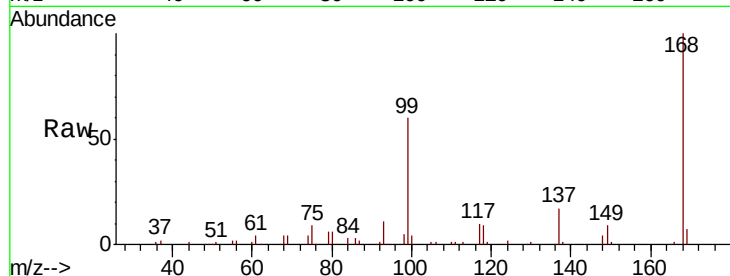
MS-OILY-WATER

Tgt Ion:168 Resp: 113606

Ion Ratio Lower Upper

168 100

99 59.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027585.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027585.D (-1169) (-)

4.99

50000

40000

30000

20000

10000

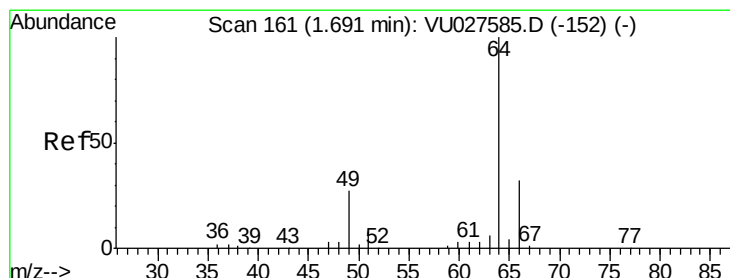
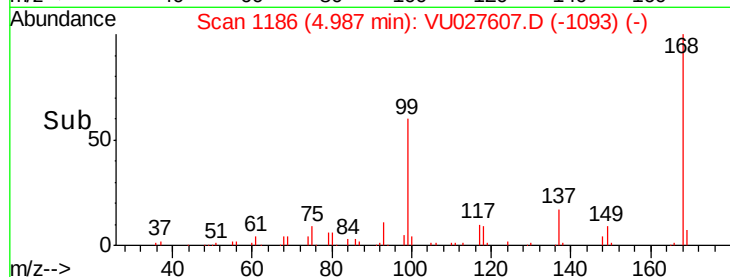
0

4.90

5.00

5.10

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.63 min Scan# 142

Delta R.T. -0.06 min

Lab File: VU027607.D

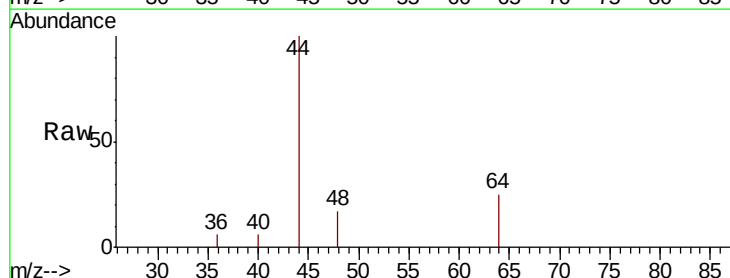
Acq: 11 Oct 2018 18:27

Tgt Ion: 64 Resp: 298

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VU027585.D (-152) (-)

Ion 65.90 (65.60 to 66.60): VU027585.D (-152) (-)

1.63

600

500

400

300

200

100

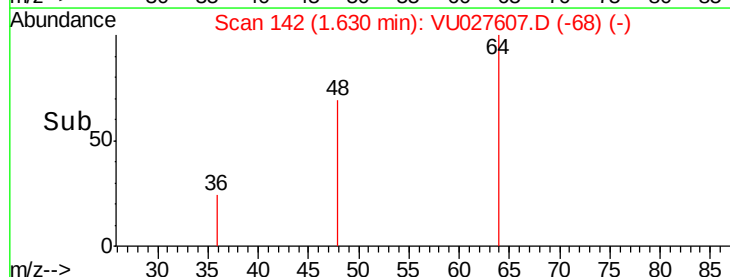
0

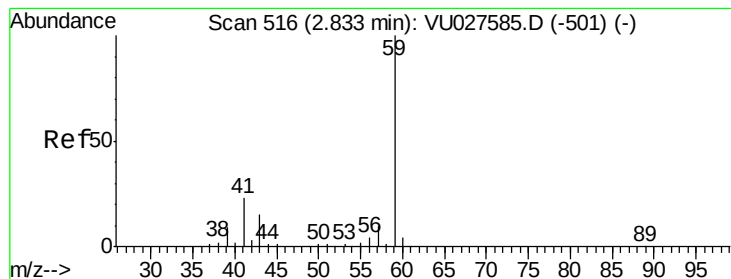
1.60

1.62

1.64

Time-->



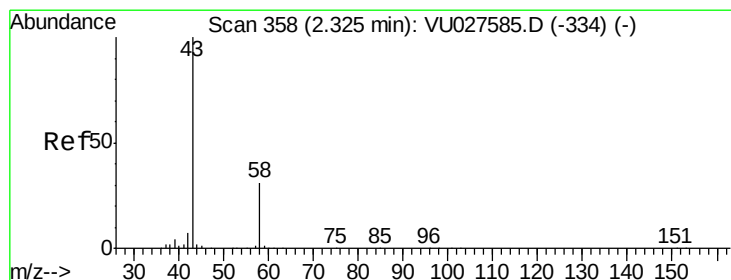
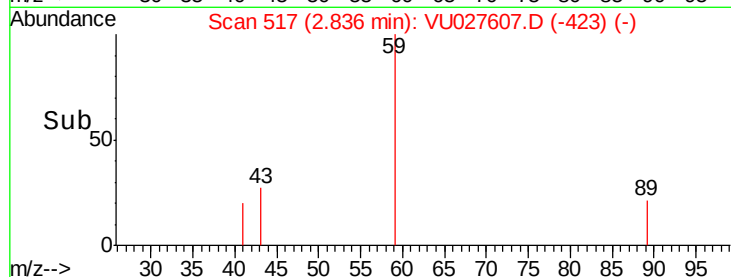
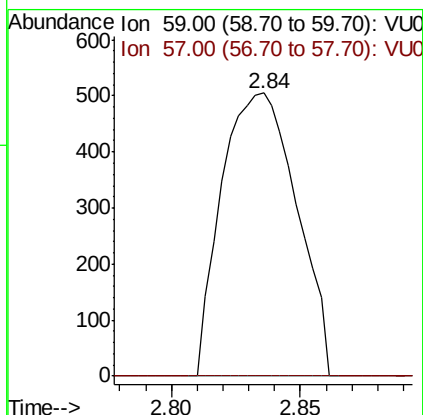
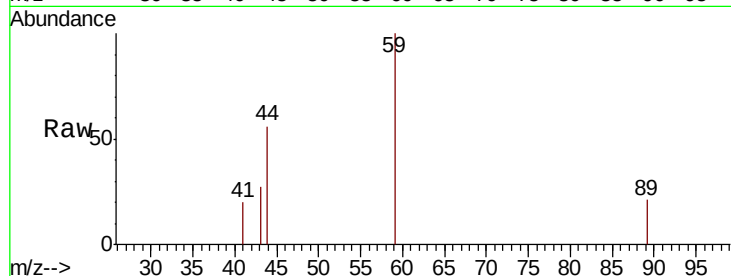


#11

Tert butyl alcohol  
 Concen: 2.382 ug/l  
 RT: 2.84 min Scan# 517  
 Delta R.T. 0.00 min  
 Lab File: VU027607.D  
 Acq: 11 Oct 2018 18:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MS-OILY-WATER

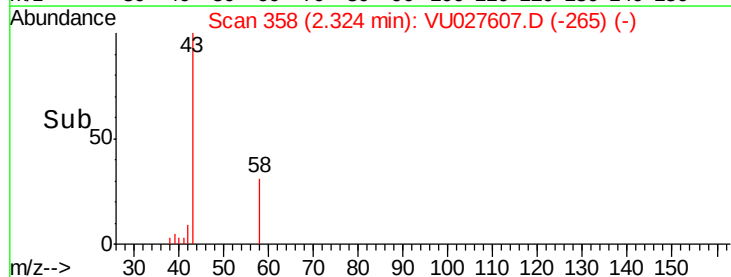
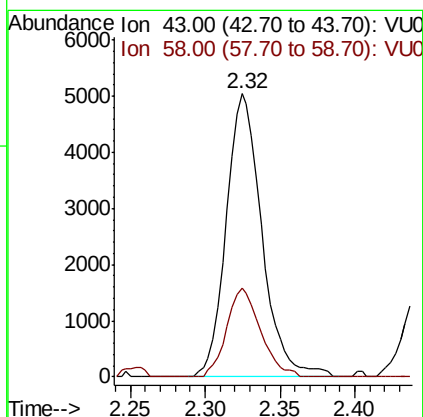
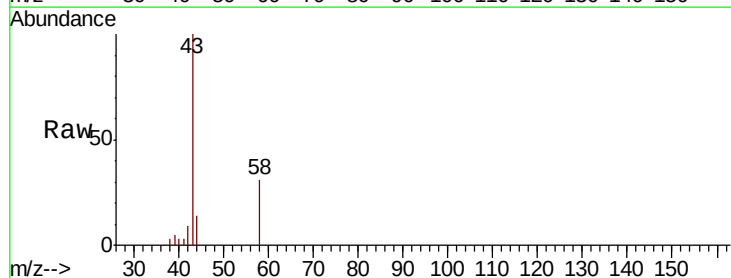
Tgt Ion: 59 Resp: 1021  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.4 12.6#

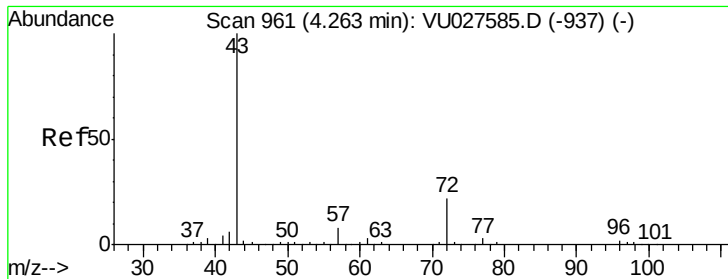


#16

Acetone  
 Concen: 7.820 ug/l  
 RT: 2.32 min Scan# 358  
 Delta R.T. -0.00 min  
 Lab File: VU027607.D  
 Acq: 11 Oct 2018 18:27

Tgt Ion: 43 Resp: 8384  
 Ion Ratio Lower Upper  
 43 100  
 58 31.2 24.2 36.4





#25

2-Butanone

Concen: 0.314 ug/l

RT: 4.30 min Scan# 973

Delta R.T. 0.04 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

Instrument :

MSVOA\_U

ClientSampleId :

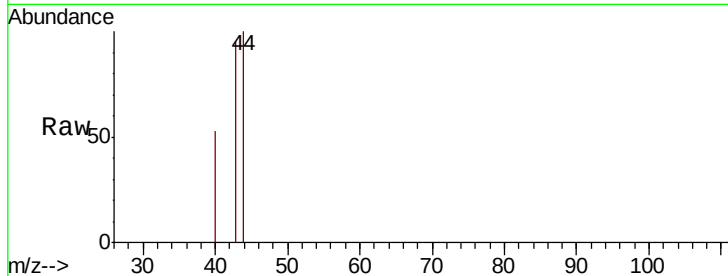
MS-OILY-WATER

Tgt Ion: 43 Resp: 477

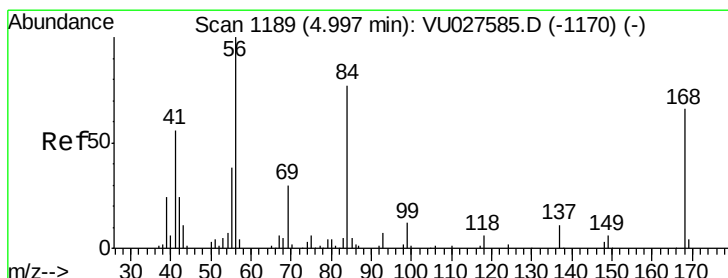
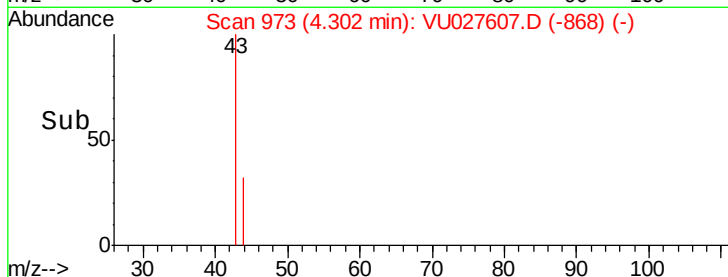
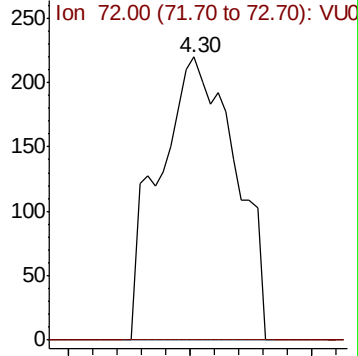
Ion Ratio Lower Upper

43 100

72 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VU027607.D (-973) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

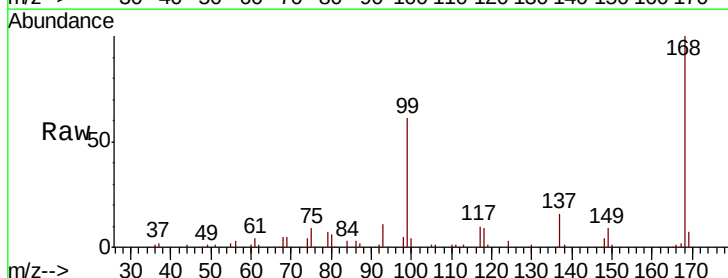
Tgt Ion: 56 Resp: 2689

Ion Ratio Lower Upper

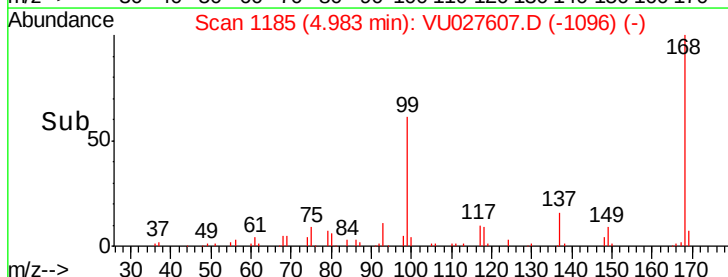
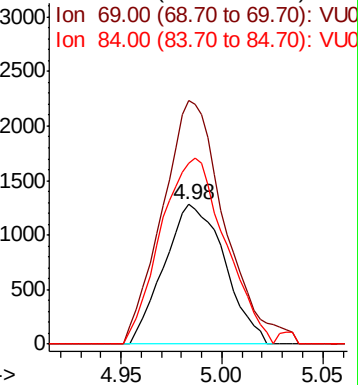
56 100

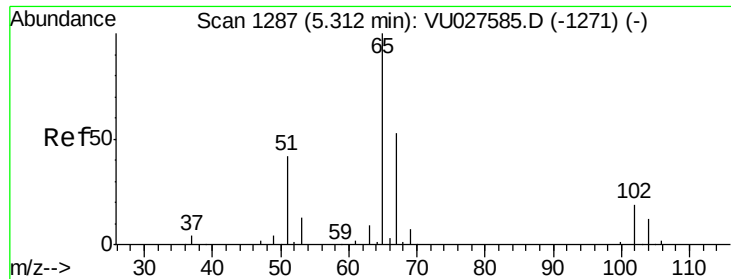
69 174.6 24.1 36.1#

84 129.9 59.1 88.7#



Abundance Ion 56.00 (55.70 to 56.70): VU027607.D (-1185) (-)

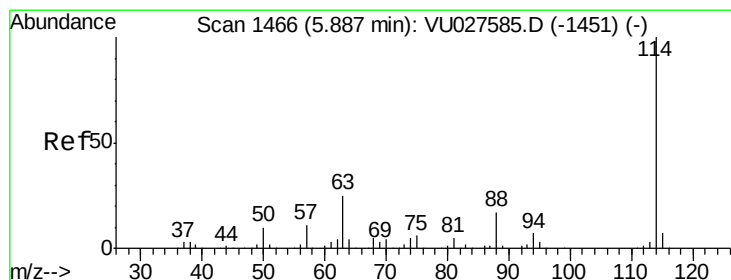
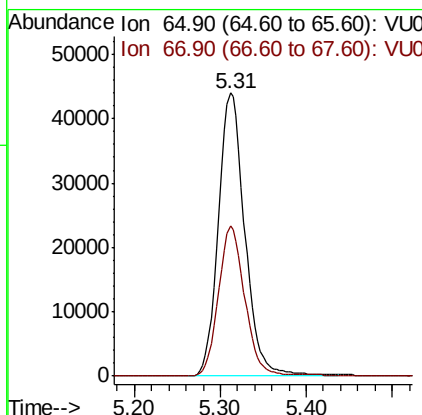
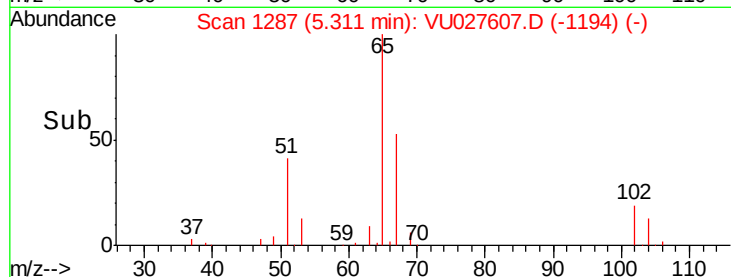
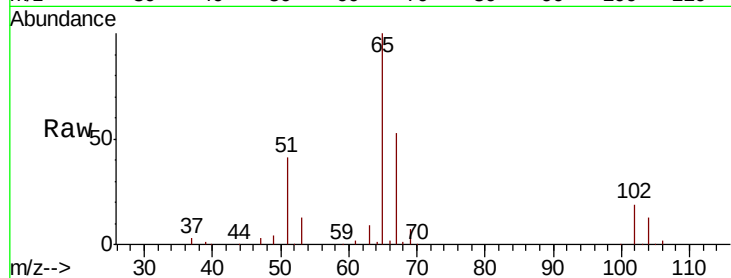




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.794 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. -0.00 min  
 Lab File: VU027607.D  
 Acq: 11 Oct 2018 18:27

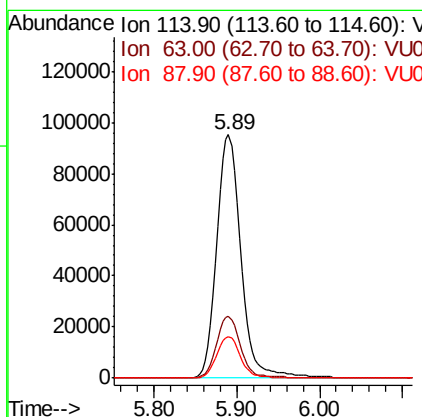
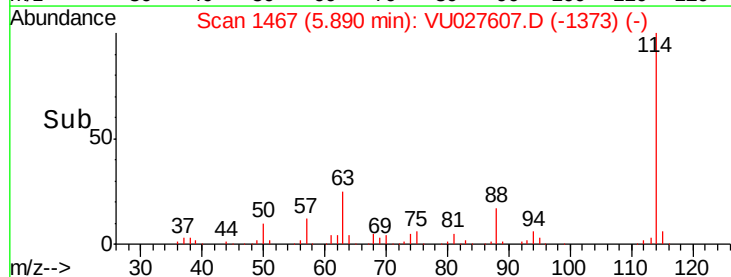
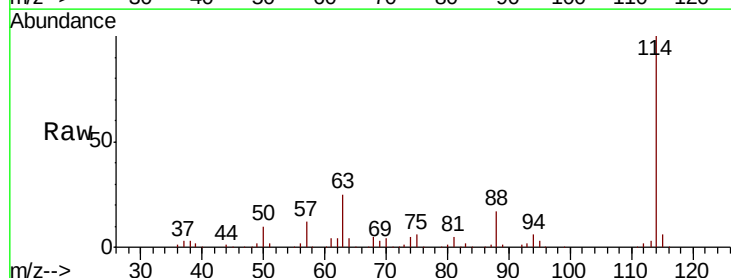
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MS-OILY-WATER

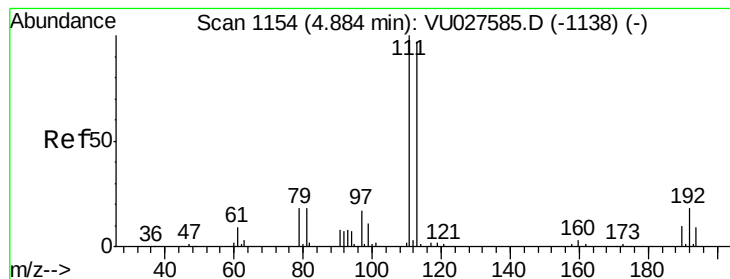
Tgt Ion: 65 Resp: 94601  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 107.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027607.D  
 Acq: 11 Oct 2018 18:27

Tgt Ion: 114 Resp: 193473  
 Ion Ratio Lower Upper  
 114 100  
 63 25.2 0.0 50.2  
 88 17.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.837 ug/l

RT: 4.89 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

Instrument :

MSVOA\_U

ClientSampleId :

MS-OILY-WATER

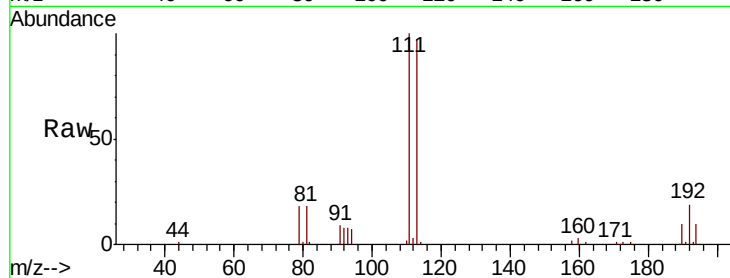
Tgt Ion:113 Resp: 66353

Ion Ratio Lower Upper

113 100

111 101.6 83.1 124.7

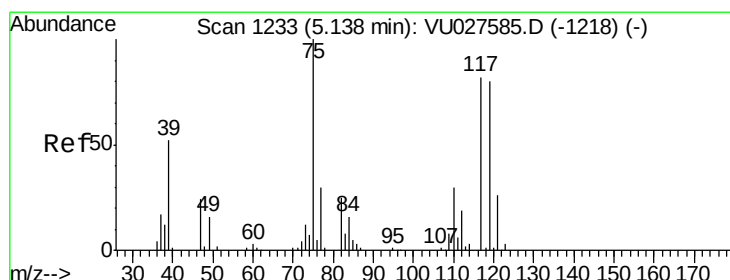
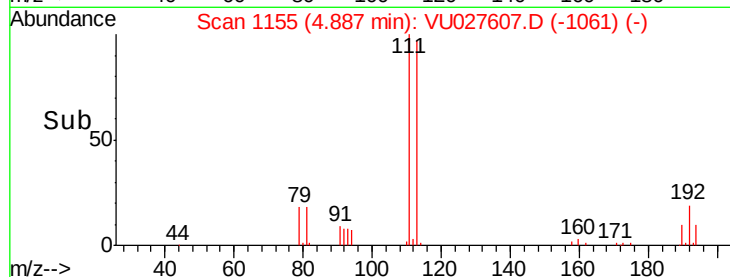
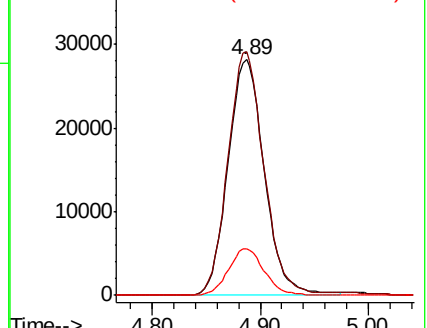
192 19.5 15.4 23.0



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: 5.128 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

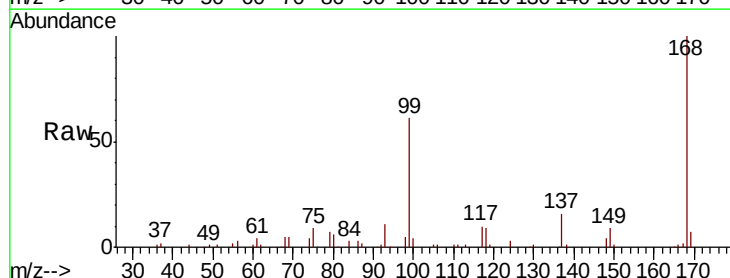
Tgt Ion: 75 Resp: 10078

Ion Ratio Lower Upper

75 100

110 7.1 15.5 46.5#

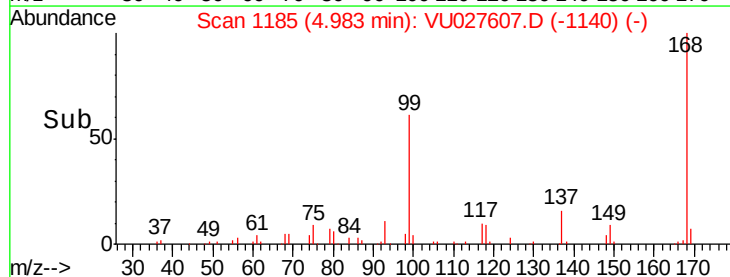
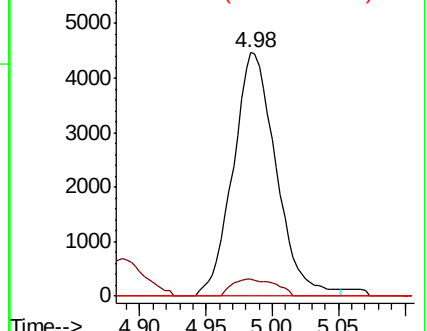
77 0.0 25.4 38.0#

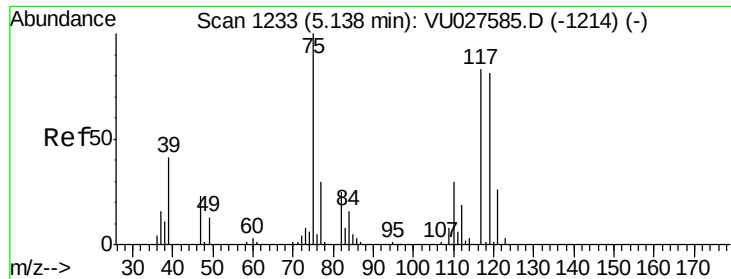


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.391 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

Instrument :

MSVOA\_U

ClientSampleId :

MS-OILY-WATER

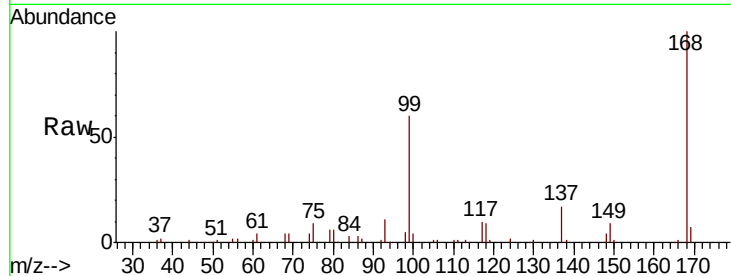
Tgt Ion:117 Resp: 11580

Ion Ratio Lower Upper

117 100

119 5.3 74.5 111.7#

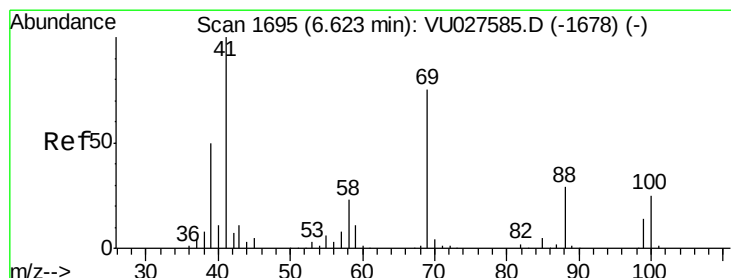
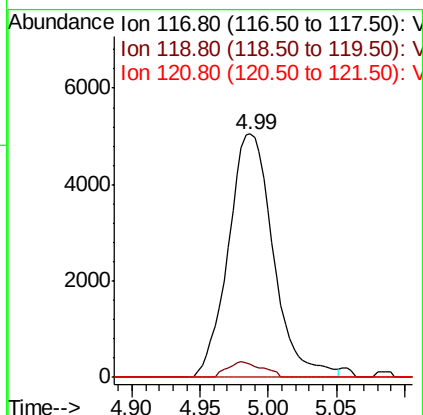
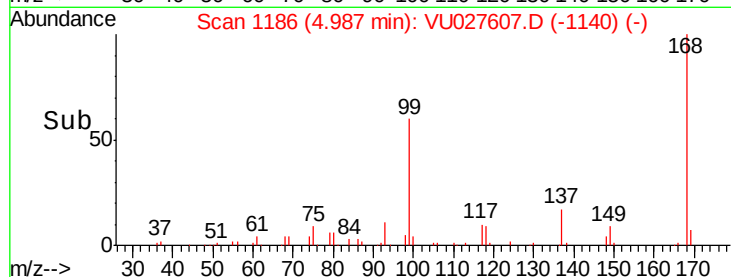
121 0.0 24.6 37.0#



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



#48

Methyl methacrylate

Concen: 1.659 ug/l

RT: 6.83 min Scan# 1758

Delta R.T. 0.20 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

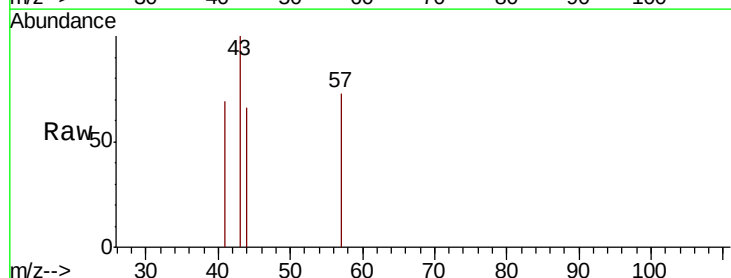
Tgt Ion: 41 Resp: 393

Ion Ratio Lower Upper

41 100

69 0.0 61.0 91.4#

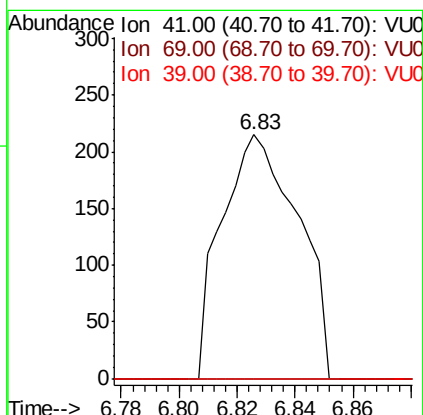
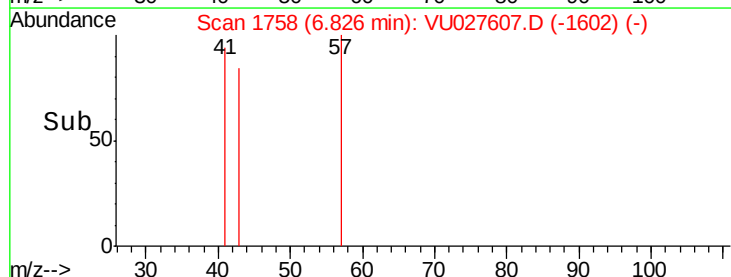
39 0.0 39.9 59.9#



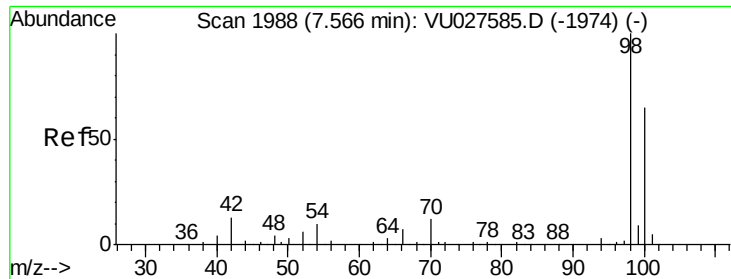
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



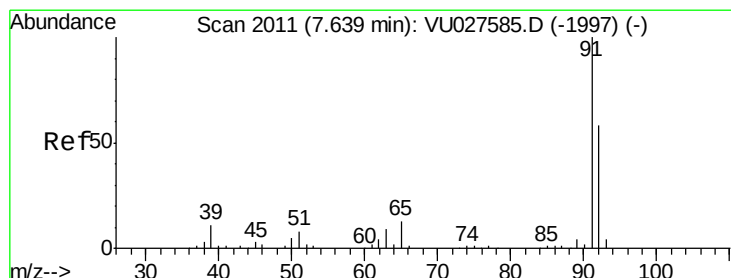
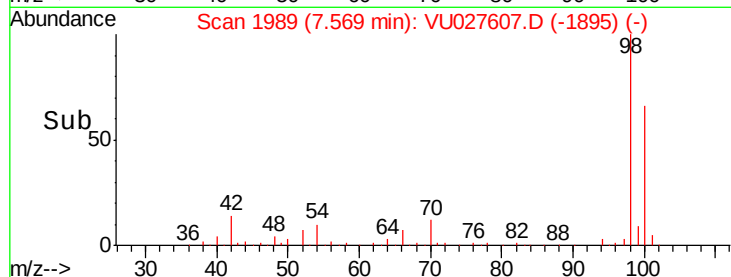
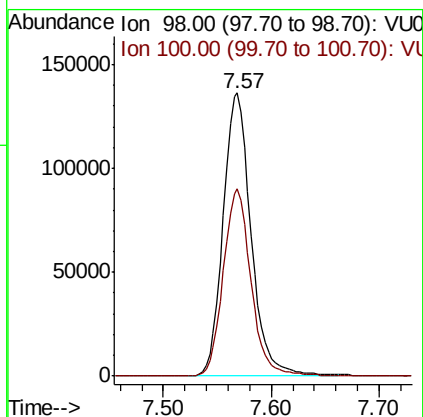
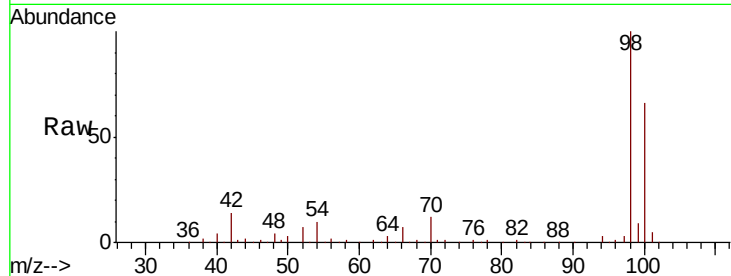




#50  
Toluene-d8  
Concen: 50.483 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027607.D  
Acq: 11 Oct 2018 18:27

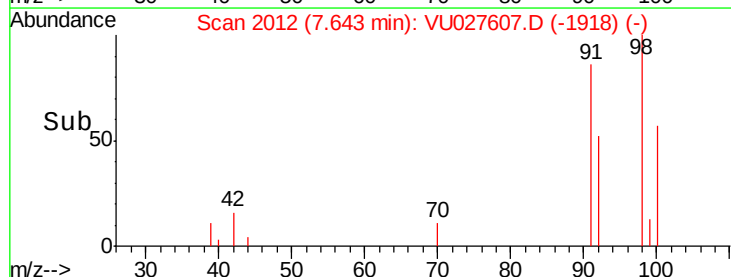
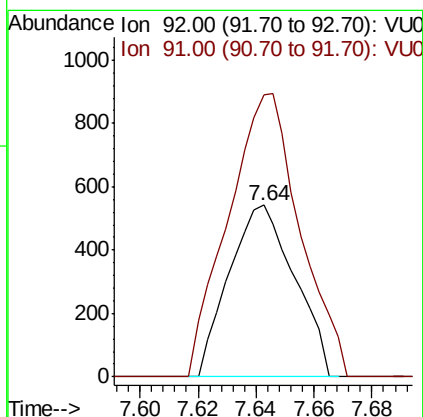
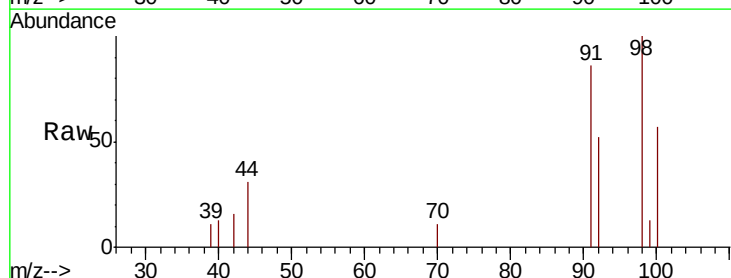
Instrument :  
MSVOA\_U  
ClientSampleId :  
MS-OILY-WATER

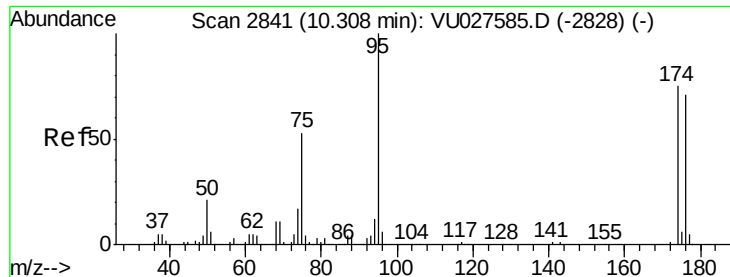
Tgt Ion: 98 Resp: 246069  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.1 78.1



#52  
Toluene  
Concen: 0.250 ug/l  
RT: 7.64 min Scan# 2012  
Delta R.T. 0.00 min  
Lab File: VU027607.D  
Acq: 11 Oct 2018 18:27

Tgt Ion: 92 Resp: 849  
Ion Ratio Lower Upper  
92 100  
91 180.9 138.6 208.0





#62

4-Bromofluorobenzene

Concen: 45.156 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

Instrument :

MSVOA\_U

ClientSampleId :

MS-OILY-WATER

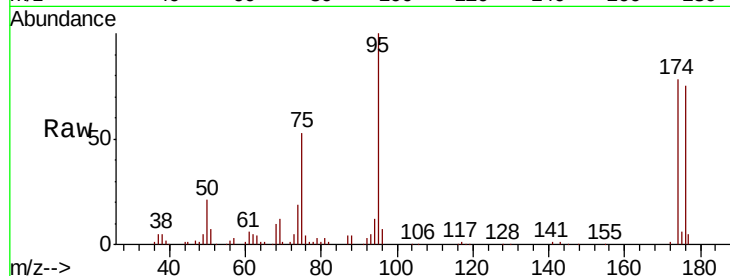
Tgt Ion: 95 Resp: 79387

Ion Ratio Lower Upper

95 100

174 76.1 0.0 147.8

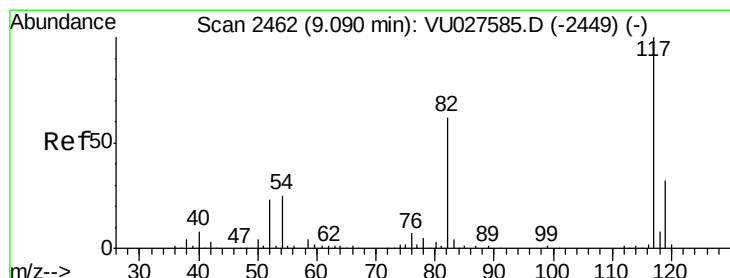
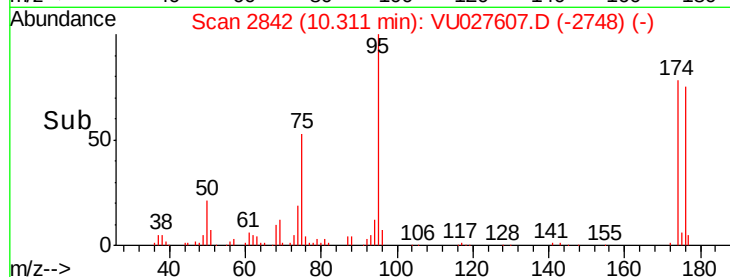
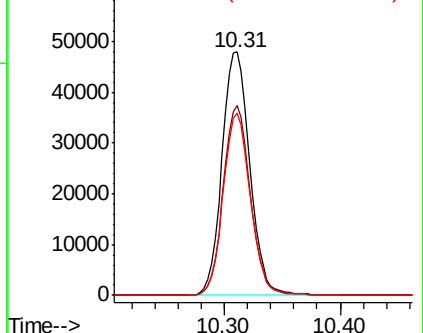
176 73.3 0.0 140.8



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: VU027607.D

Acq: 11 Oct 2018 18:27

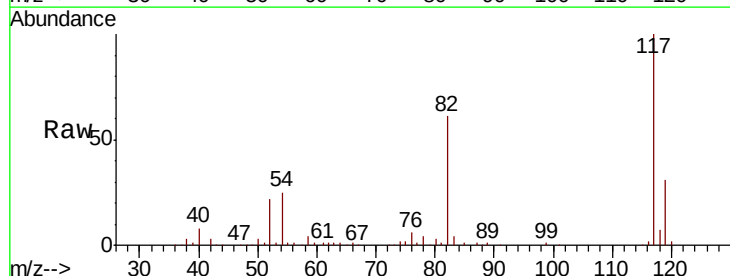
Tgt Ion: 117 Resp: 178045

Ion Ratio Lower Upper

117 100

82 61.4 49.2 73.8

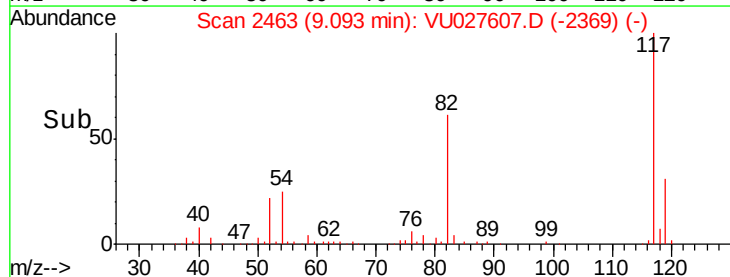
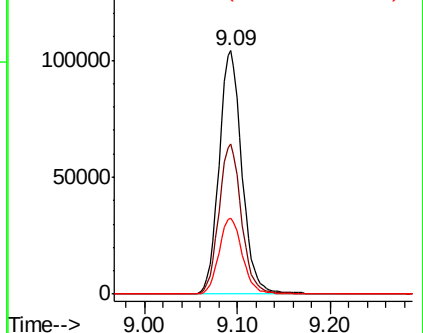
119 31.1 25.7 38.5

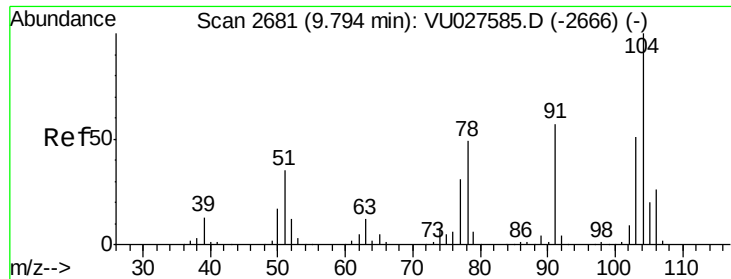


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

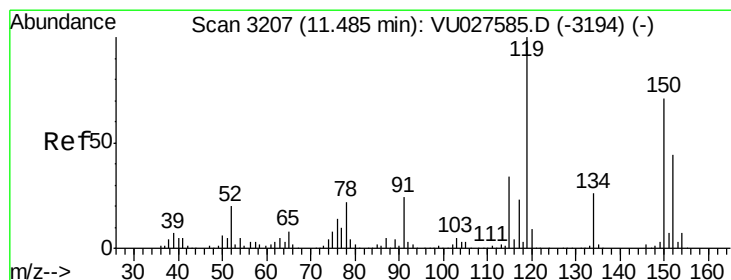
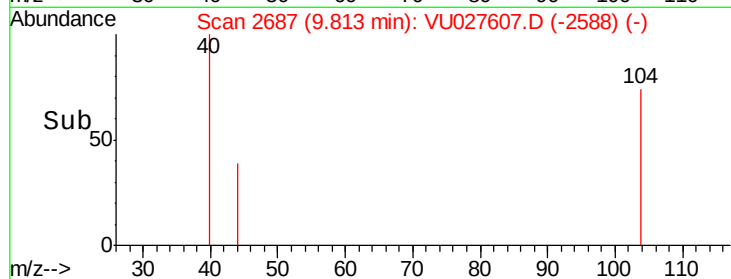
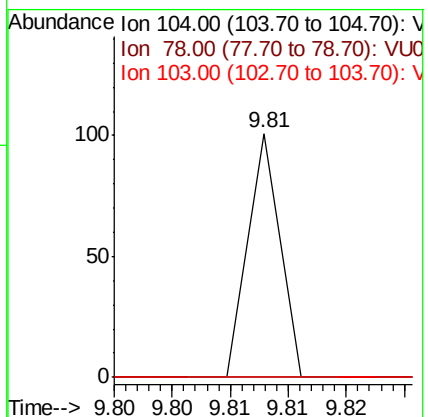
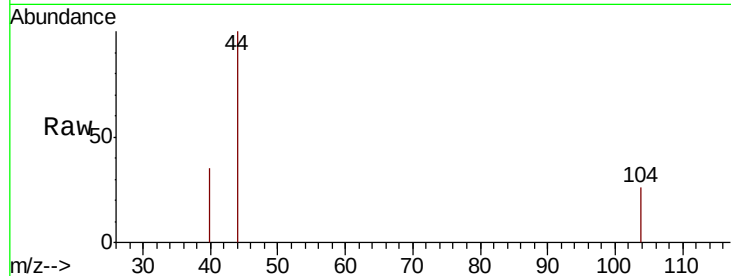




#70  
Styrene  
Concen: 1.261 ug/l  
RT: 9.81 min Scan# 2687  
Delta R.T. 0.02 min  
Lab File: VU027607.D  
Acq: 11 Oct 2018 18:27

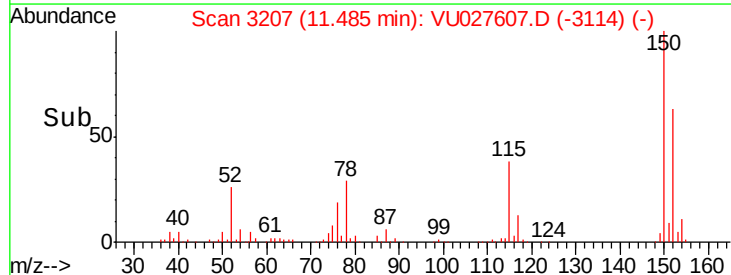
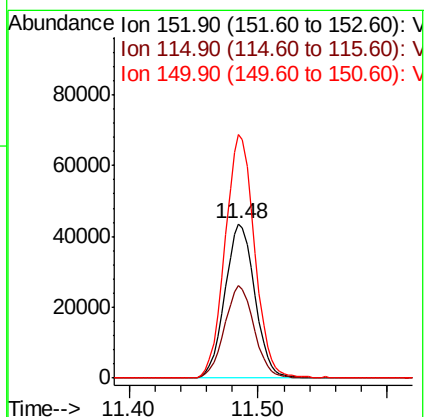
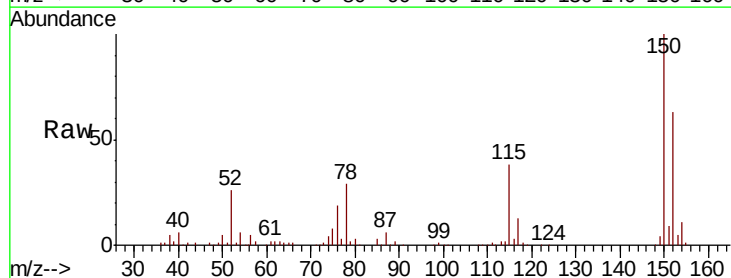
Instrument :  
MSVOA\_U  
ClientSampleId :  
MS-OILY-WATER

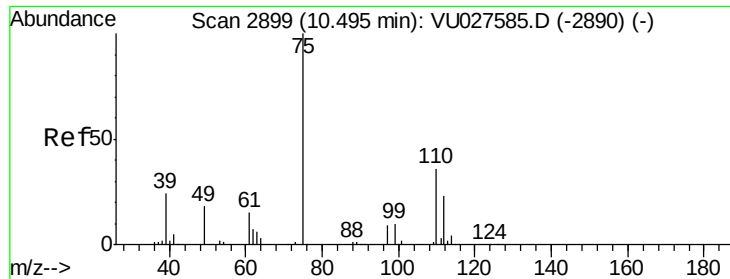
Tgt Ion:104 Resp: 19  
Ion Ratio Lower Upper  
104 100  
78 0.0 42.9 64.3#  
103 0.0 43.9 65.9#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027607.D  
Acq: 11 Oct 2018 18:27

Tgt Ion:152 Resp: 69969  
Ion Ratio Lower Upper  
152 100  
115 59.3 43.4 130.2  
150 155.7 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 20.877 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

Instrument :

MSVOA\_U

ClientSampleId :

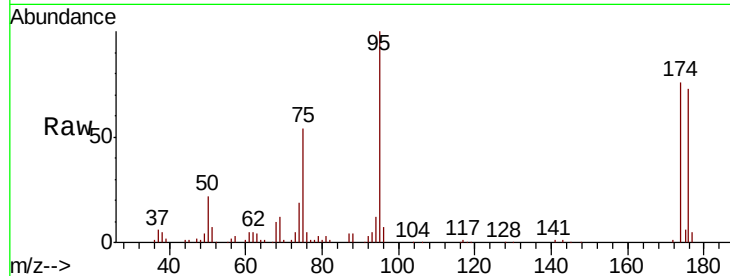
MS-OILY-WATER

Tgt Ion: 75 Resp: 41906

Ion Ratio Lower Upper

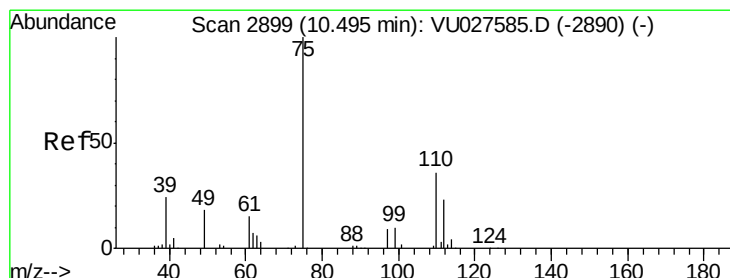
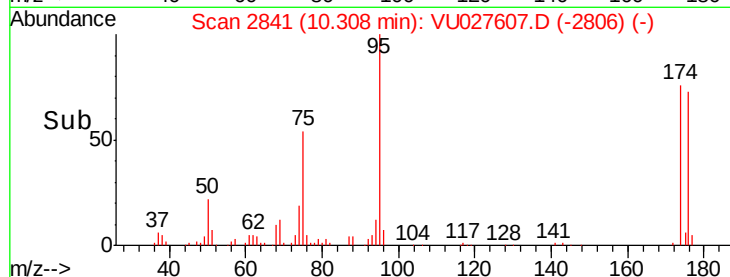
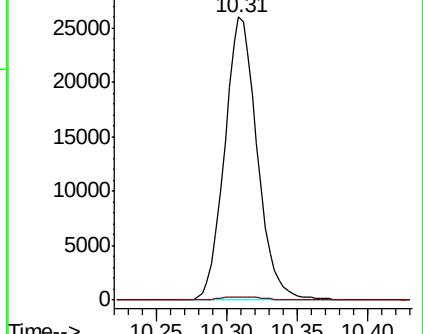
75 100

77 1.4 20.3 60.9#



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: 24.603 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027607.D

Acq: 11 Oct 2018 18:27

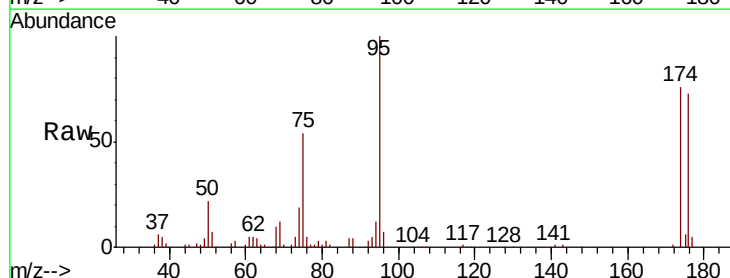
Tgt Ion: 75 Resp: 41906

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

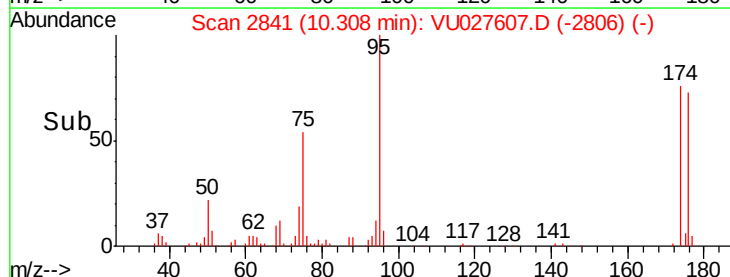
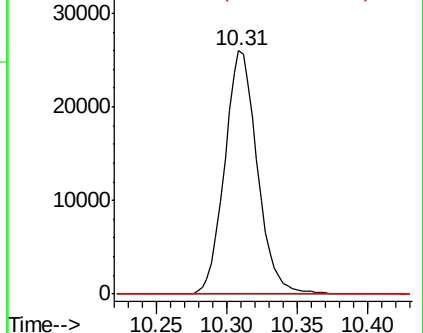
89 0.0 0.0 0.0

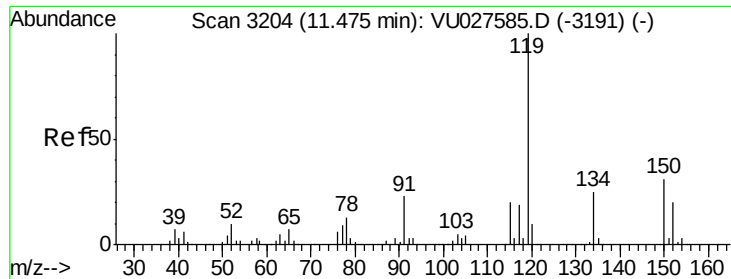


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

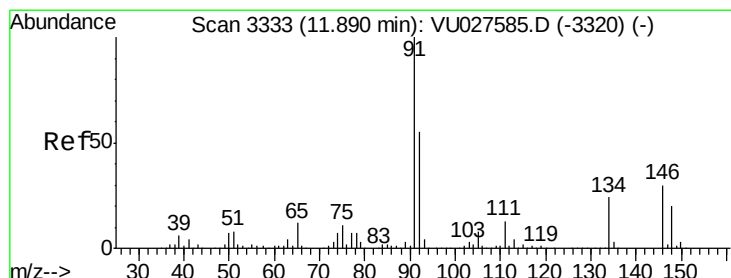
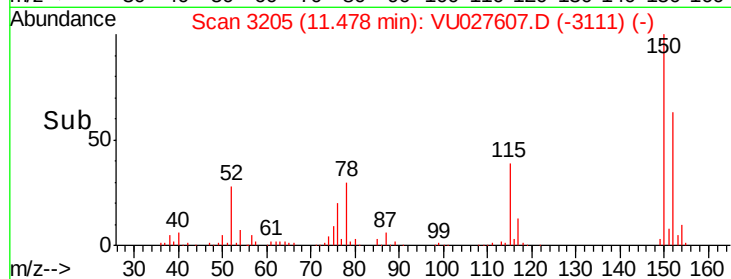
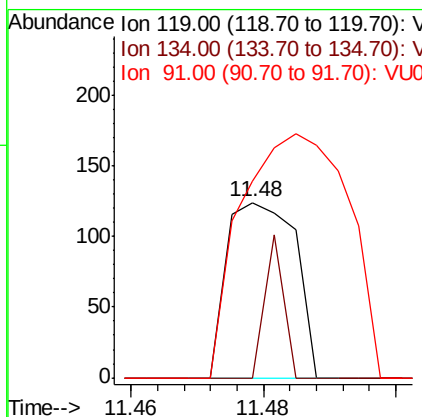
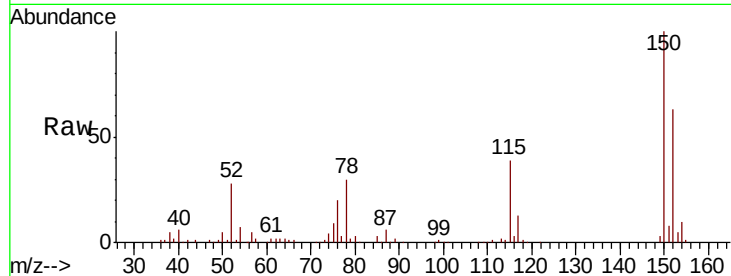




#86  
p-Isopropyltoluene  
Concen: 0.499 ug/l  
RT: 11.48 min Scan# 3205  
Delta R.T. 0.00 min  
Lab File: VU027607.D  
Acq: 11 Oct 2018 18:27

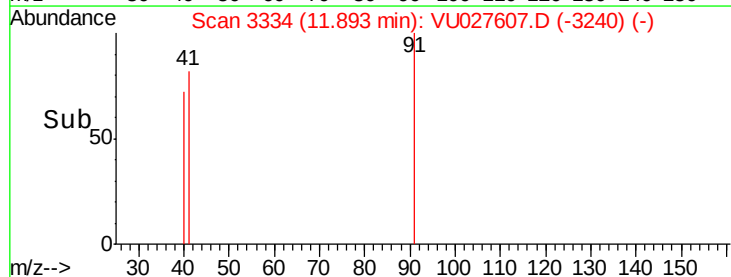
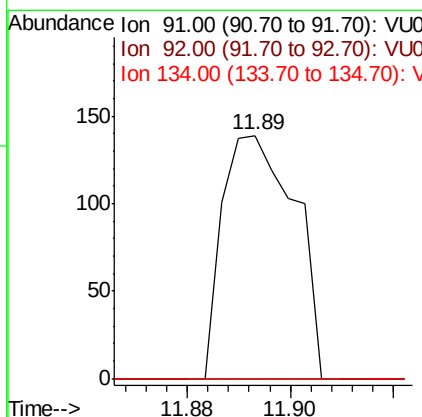
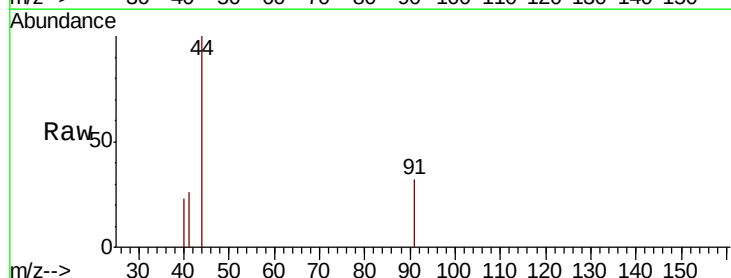
Instrument :  
MSVOA\_U  
ClientSampleId :  
MS-OILY-WATER

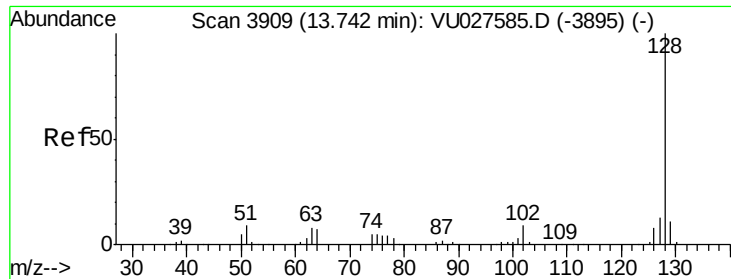
Tgt Ion: 119 Resp: 89  
Ion Ratio Lower Upper  
119 100  
134 21.3 12.7 38.1  
91 218.0 12.2 36.4#



#89  
n-Butylbenzene  
Concen: 1.590 ug/l  
RT: 11.89 min Scan# 3334  
Delta R.T. 0.00 min  
Lab File: VU027607.D  
Acq: 11 Oct 2018 18:27

Tgt Ion: 91 Resp: 135  
Ion Ratio Lower Upper  
91 100  
92 0.0 27.0 81.0#  
134 0.0 11.7 35.1#





#95

Naphthalene

Concen: 1.417 ug/l

RT: 13.75 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU027607.D

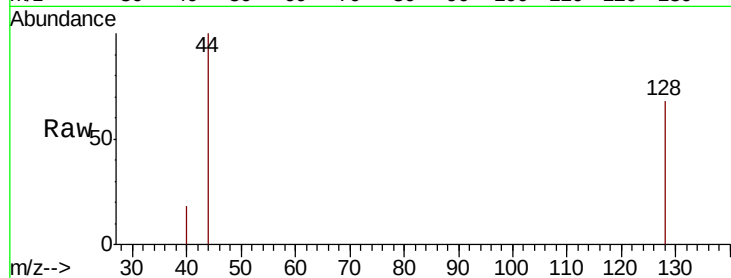
Acq: 11 Oct 2018 18:27

Instrument :

MSVOA\_U

ClientSampleId :

MS-OILY-WATER



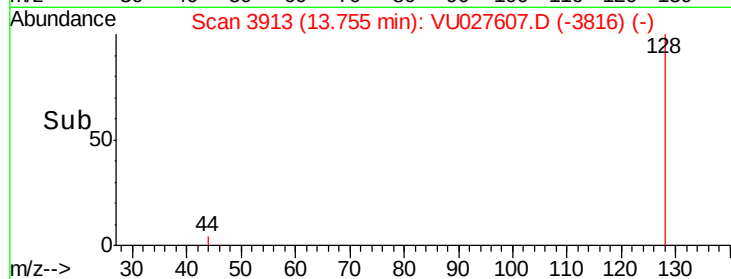
Tgt Ion:128 Resp: 794

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

