

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092218\  
 Data File : VU026982.D  
 Acq On : 21 Sep 2018 21:15  
 Operator : MD/SY  
 Sample : J4916-09  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FC-MW051-20180911

Quant Time: Sep 22 02:23:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 79565    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 154587   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 157376   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 77902    | 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   | 90206    | 56.33 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 112.66% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 68147    | 50.86 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.72% |          |
| 50) Toluene-d8              | 7.57  | 98   | 251960   | 49.34 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.68%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 87023    | 49.66 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.32%  |          |

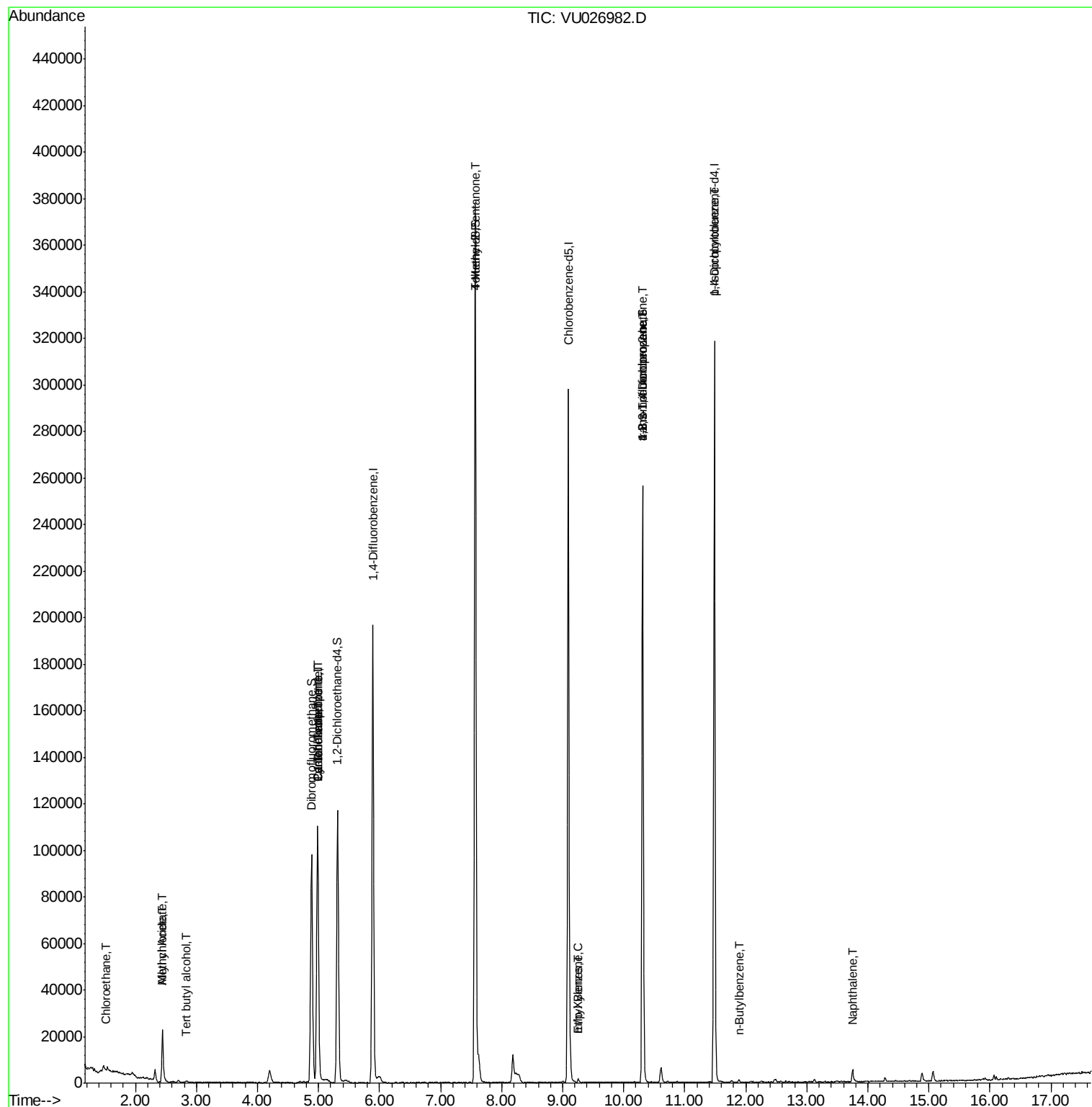
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.51  | 64   | 750      | 0.702     | ug/l # | 43     |
| 11) Tert butyl alcohol         | 2.83  | 59   | 629      | 1.714     | ug/l # | 72     |
| 14) Allyl chloride             | 2.44  | 41   | 2160     | 0.969     | ug/l # | 68     |
| 16) Acetone                    | 2.32  | 43   | 4921     | Below Cal |        | 98     |
| 18) Methyl Acetate             | 2.44  | 43   | 5595     | 2.455     | ug/l # | 55     |
| 31) Cyclohexane                | 4.98  | 56   | 2028     | 0.278     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 7450     | 3.611     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.98  | 117  | 8076     | 4.113     | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 7.56  | 43   | 1108     | 0.404     | ug/l # | 1      |
| 67) Ethyl Benzene              | 9.25  | 91   | 1725     | 0.251     | ug/l # | 87     |
| 68) m/p-Xylenes                | 9.26  | 106  | 403      | 1.644     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 46031    | 19.450    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 46031    | 62.243    | ug/l # | 100    |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 142      | 0.953     | ug/l # | 1      |
| 89) n-Butylbenzene             | 11.89 | 91   | 158      | 2.420     | ug/l # | 75     |
| 95) Naphthalene                | 13.75 | 128  | 5535     | 2.518     | ug/l   | 97     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VU026982.D

Acq: 21 Sep 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

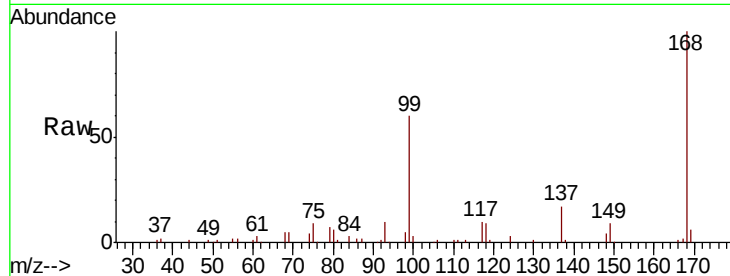
FC-MW051-20180911

Tgt Ion:168 Resp: 79565

Ion Ratio Lower Upper

168 100

99 59.7 48.1 72.1



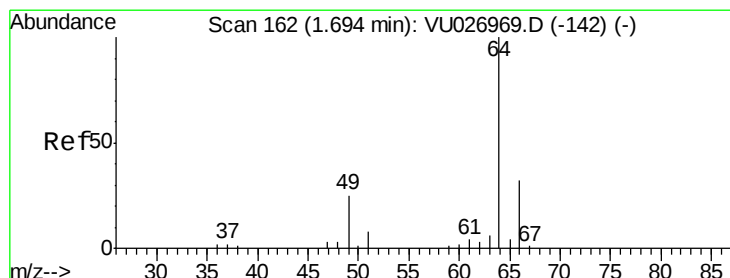
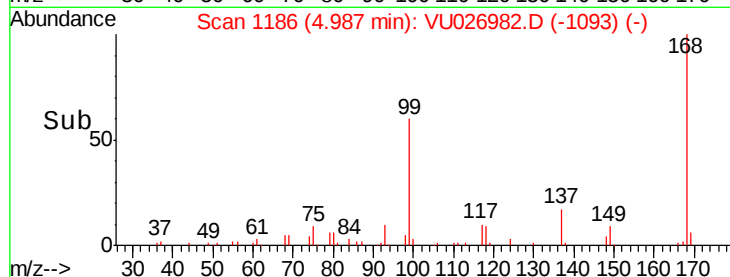
Abundance Ion 167.90 (167.60 to 168.60): VU026969.D

Ion 98.90 (98.60 to 99.60): VU026969.D

4.99

4.95 5.00 5.05

Time-->



#6

Chloroethane

Concen: 0.702 ug/l

RT: 1.51 min Scan# 106

Delta R.T. -0.18 min

Lab File: VU026982.D

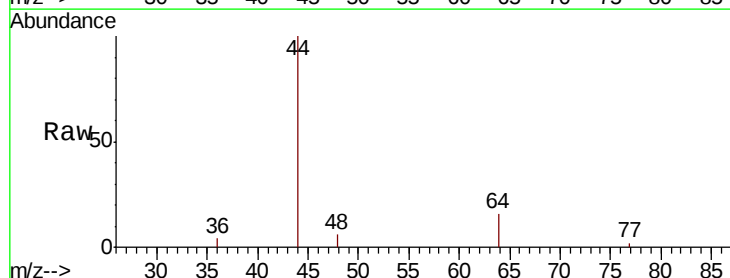
Acq: 21 Sep 2018 21:15

Tgt Ion: 64 Resp: 750

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



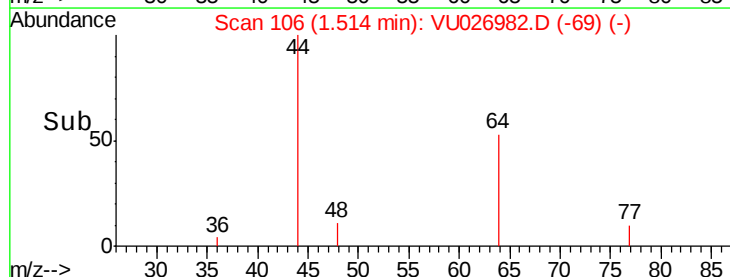
Abundance Ion 63.90 (63.60 to 64.60): VU026969.D

Ion 65.90 (65.60 to 66.60): VU026969.D

1.51

1.46 1.48 1.50 1.52 1.54

Time-->



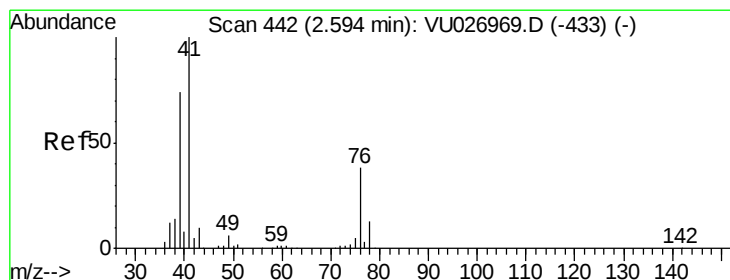
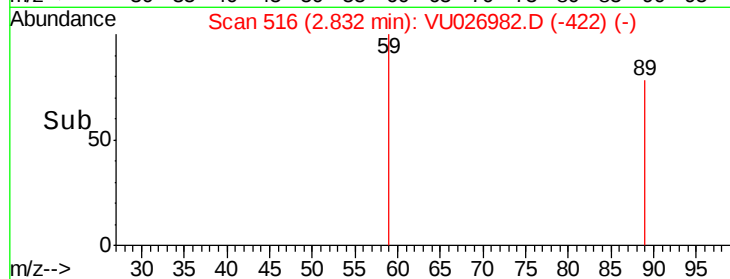
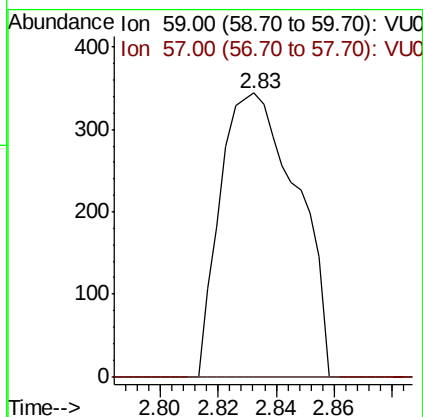
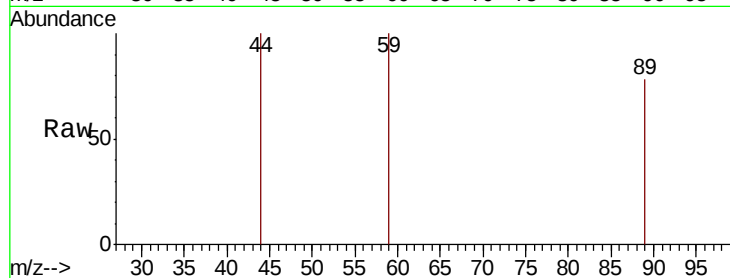


#11

Tert butyl alcohol  
 Concen: 1.714 ug/l  
 RT: 2.83 min Scan# 516  
 Delta R.T. 0.00 min  
 Lab File: VU026982.D  
 Acq: 21 Sep 2018 21:15

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 FC-MW051-20180911

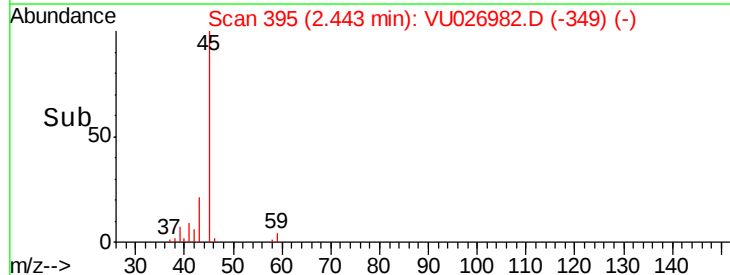
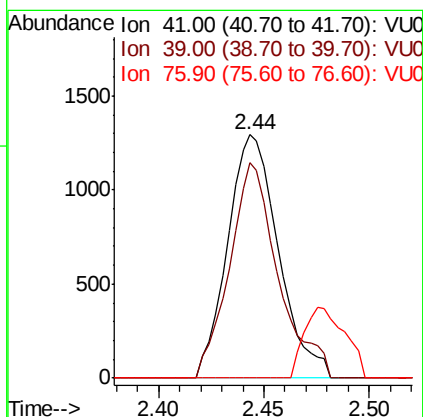
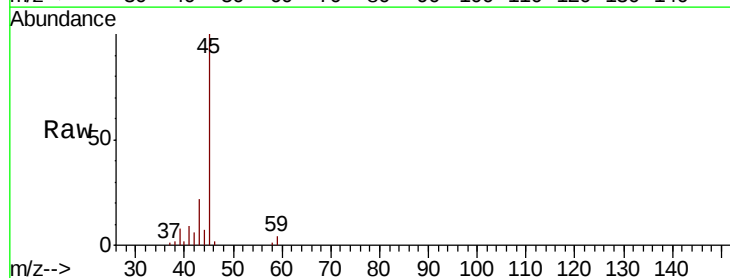
Tgt Ion: 59 Resp: 629  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.5 12.7#

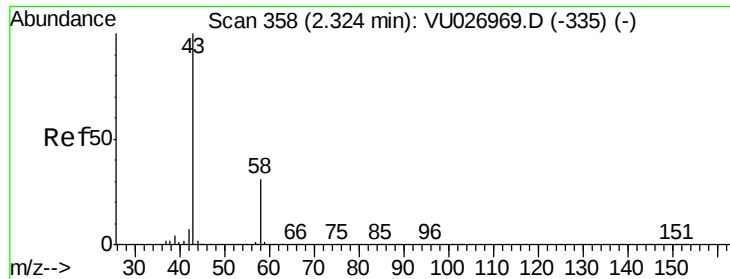


#14

Allyl chloride  
 Concen: 0.969 ug/l  
 RT: 2.44 min Scan# 395  
 Delta R.T. -0.15 min  
 Lab File: VU026982.D  
 Acq: 21 Sep 2018 21:15

Tgt Ion: 41 Resp: 2160  
 Ion Ratio Lower Upper  
 41 100  
 39 84.9 55.7 83.5#  
 76 0.0 26.5 39.7#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU026982.D

Acq: 21 Sep 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

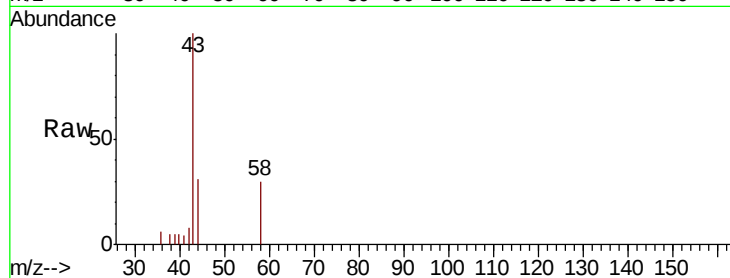
FC-MW051-20180911

Tgt Ion: 43 Resp: 4921

Ion Ratio Lower Upper

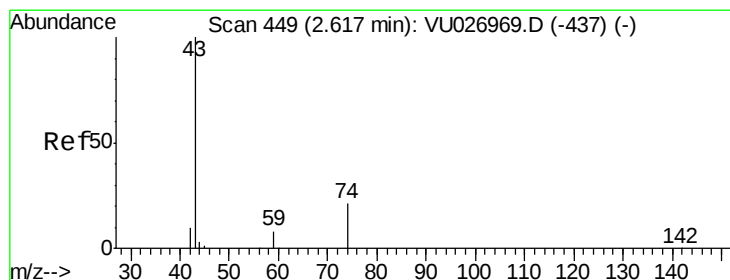
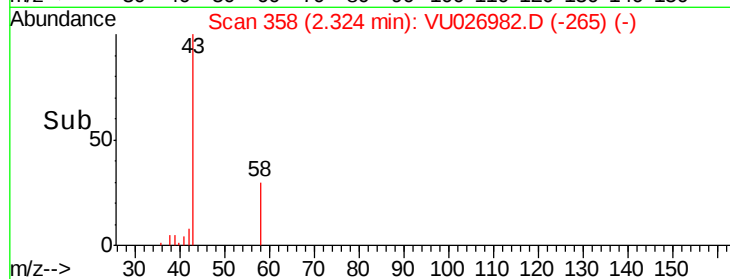
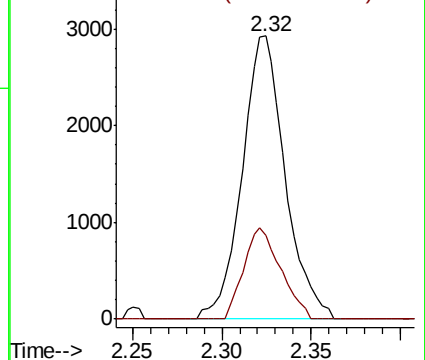
43 100

58 29.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 2.455 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU026982.D

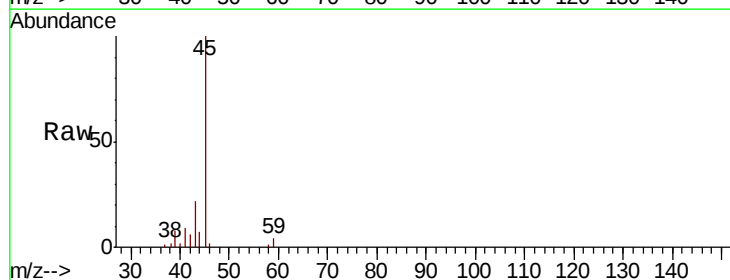
Acq: 21 Sep 2018 21:15

Tgt Ion: 43 Resp: 5595

Ion Ratio Lower Upper

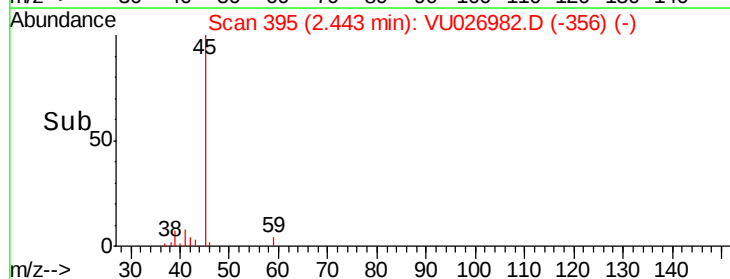
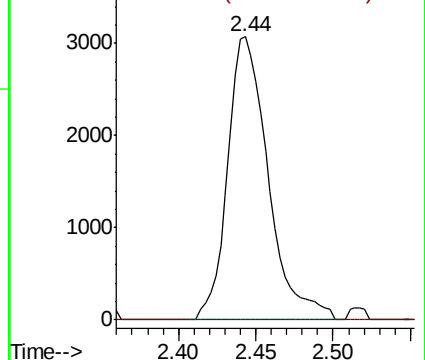
43 100

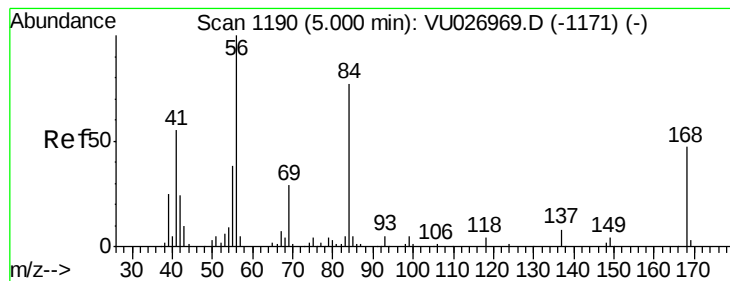
74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#31

Cyclohexane

Concen: 0.278 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU026982.D

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ClientSampleId :

FC-MW051-20180911

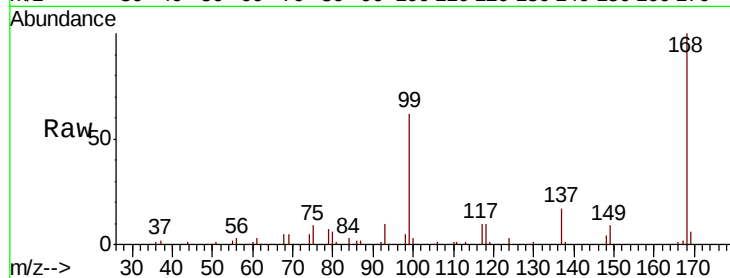
Tgt Ion: 56 Resp: 2028

Ion Ratio Lower Upper

56 100

69 182.2 23.0 34.4#

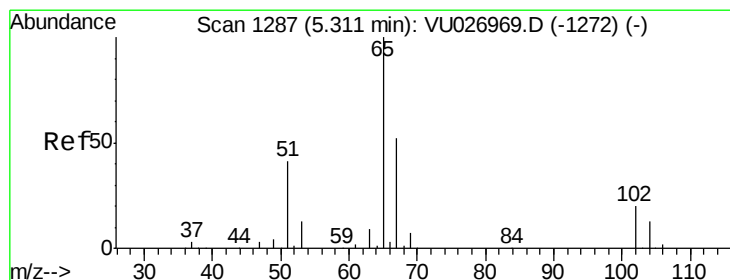
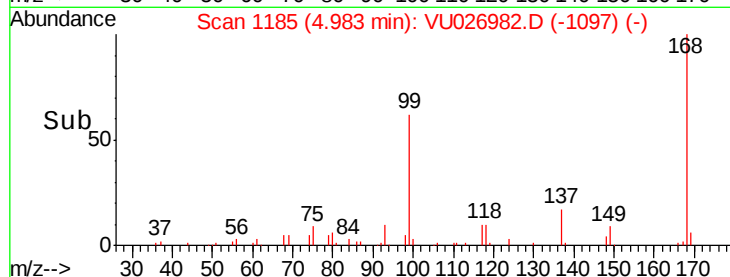
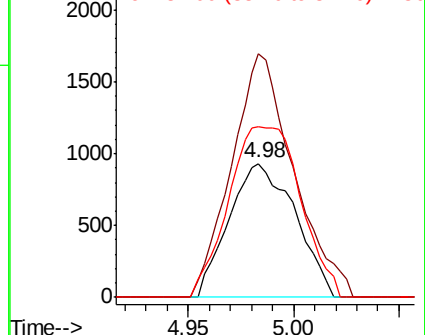
84 128.0 61.4 92.2#



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: 56.330 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU026982.D

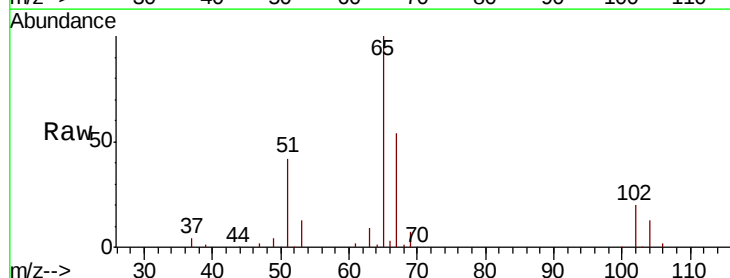
Acq: 21 Sep 2018 21:15

Tgt Ion: 65 Resp: 90206

Ion Ratio Lower Upper

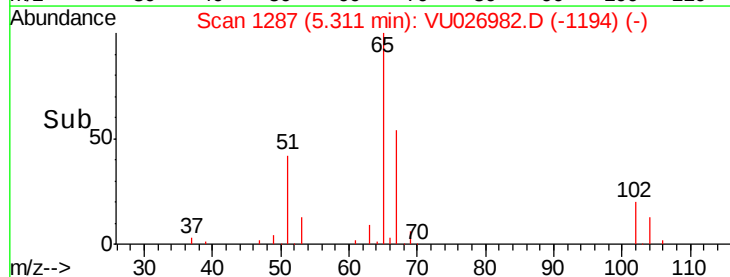
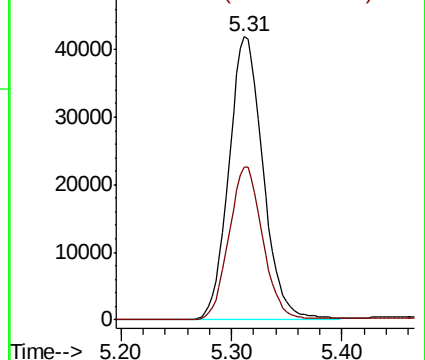
65 100

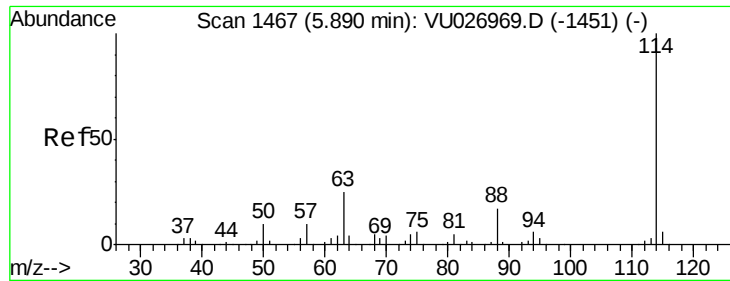
67 53.3 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

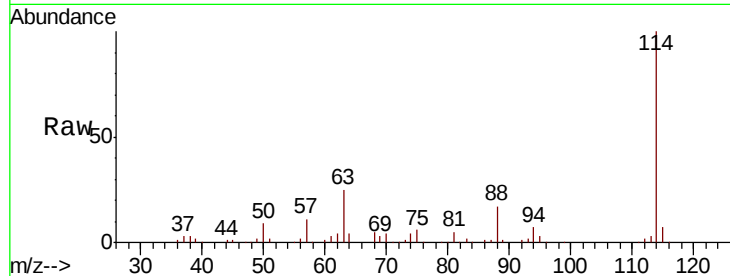




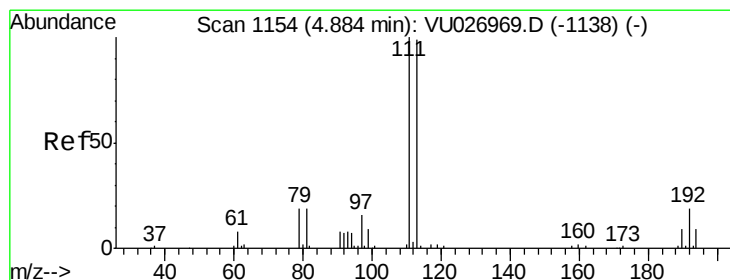
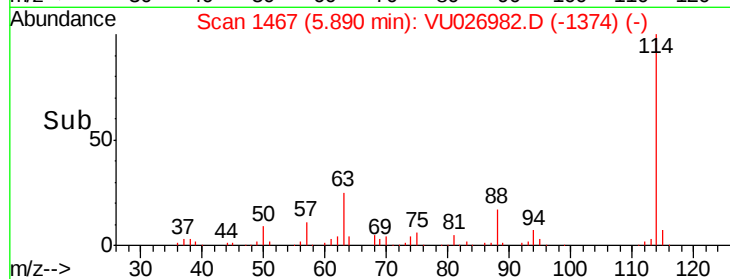
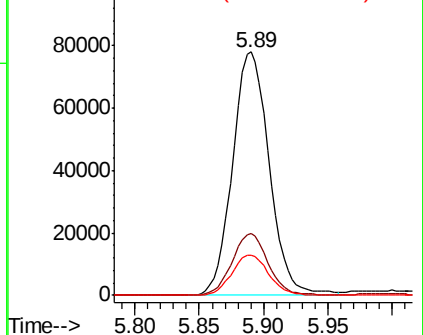
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. -0.00 min  
 Lab File: VU026982.D  
 Acq: 21 Sep 2018 21:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FC-MW051-20180911

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.3  | 0.0   | 49.2  |
| 88      | 16.7  | 0.0   | 33.8  |

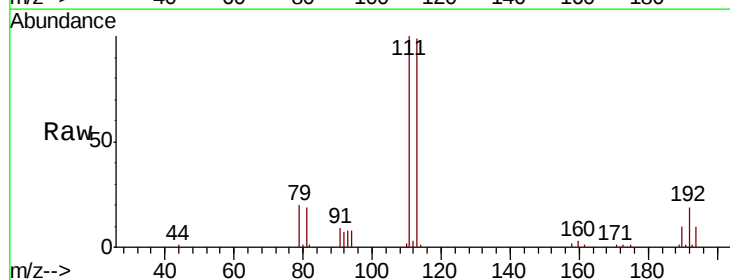


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

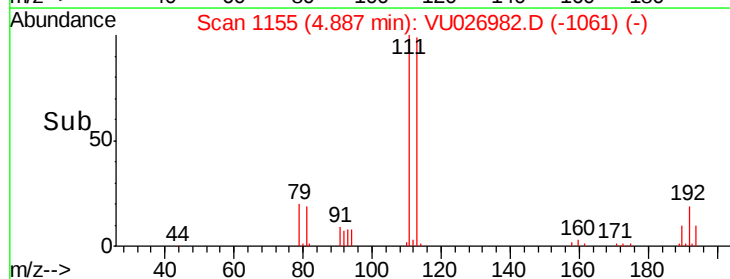
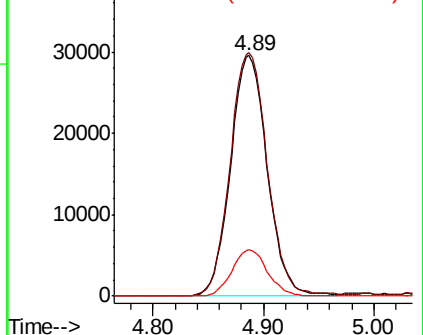


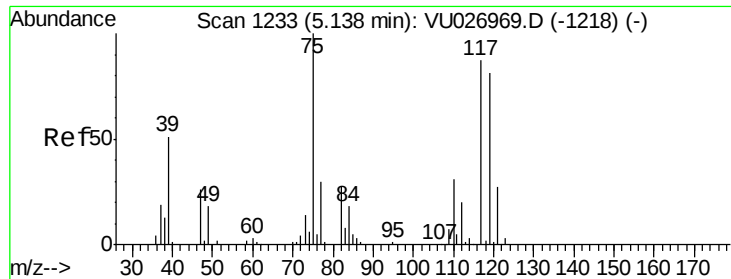
#35  
 Dibromofluoromethane  
 Concen: 50.857 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU026982.D  
 Acq: 21 Sep 2018 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.7 | 82.2  | 123.4 |
| 192     | 18.6  | 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

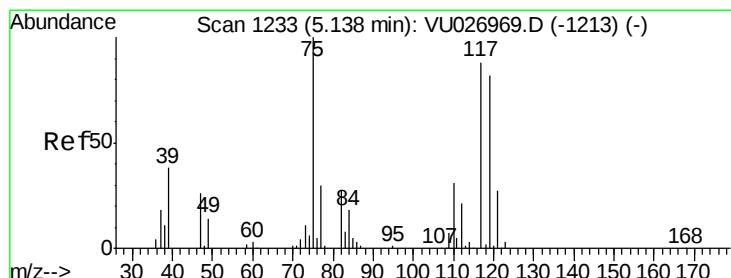
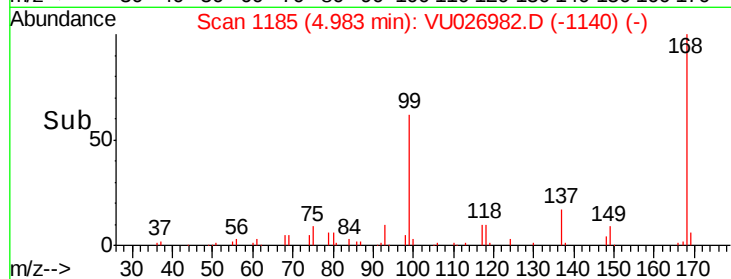
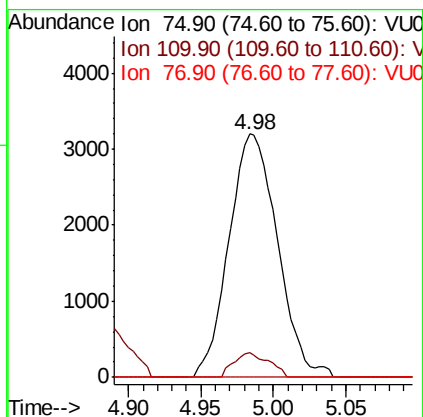
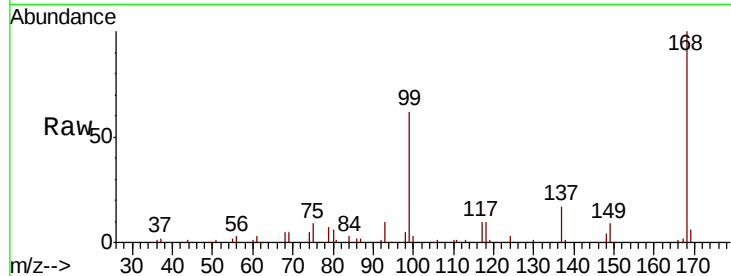




#36  
 1,1-Dichloropropene  
 Concen: 3.611 ug/l  
 RT: 4.98 min Scan# 1185  
 Delta R.T. -0.15 min  
 Lab File: VU026982.D  
 Acq: 21 Sep 2018 21:15

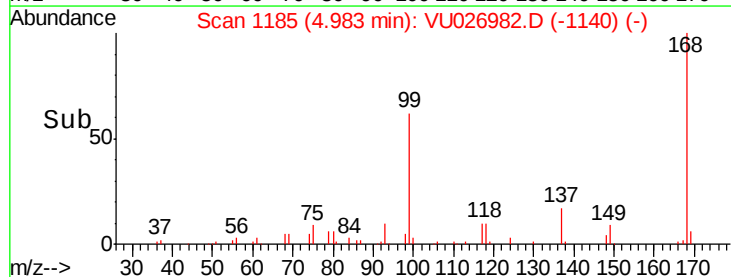
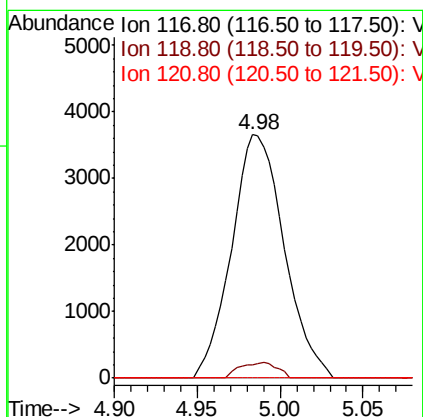
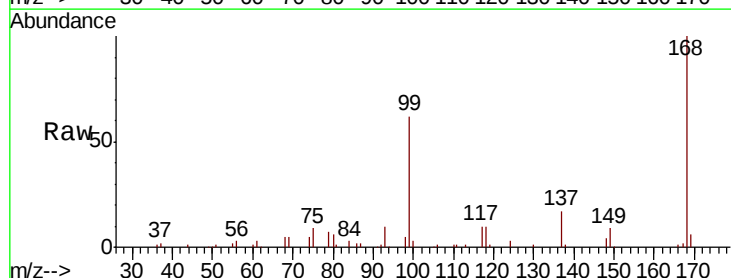
Instrument :  
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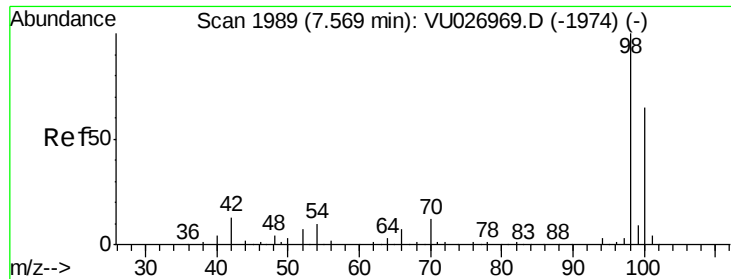
Tgt Ion: 75 Resp: 7450  
 Ion Ratio Lower Upper  
 75 100  
 110 7.3 16.1 48.2#  
 77 0.0 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 4.113 ug/l  
 RT: 4.98 min Scan# 1185  
 Delta R.T. -0.15 min  
 Lab File: VU026982.D  
 Acq: 21 Sep 2018 21:15

Tgt Ion: 117 Resp: 8076  
 Ion Ratio Lower Upper  
 117 100  
 119 5.3 74.4 111.6#  
 121 0.0 24.2 36.4#

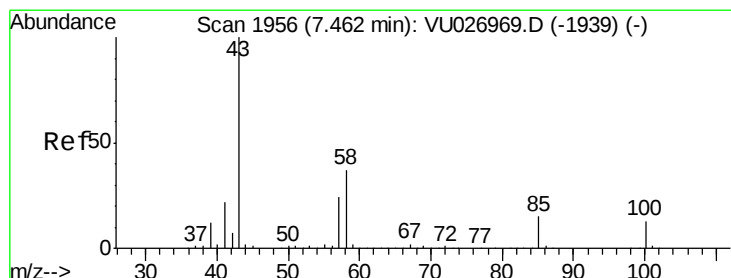
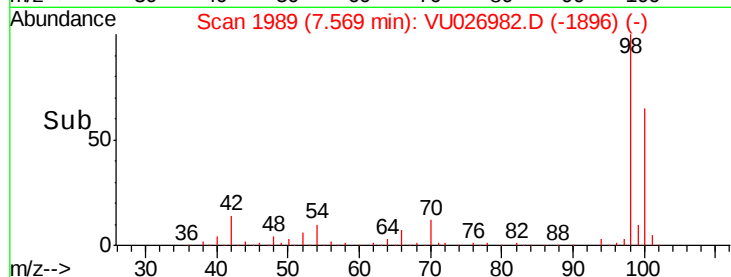
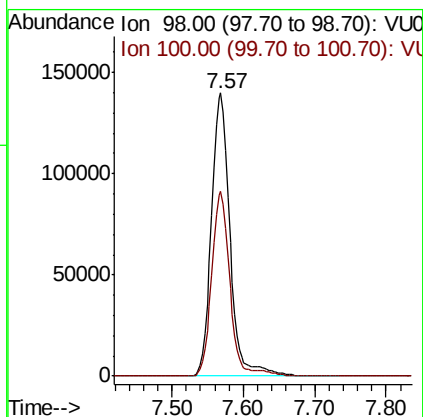
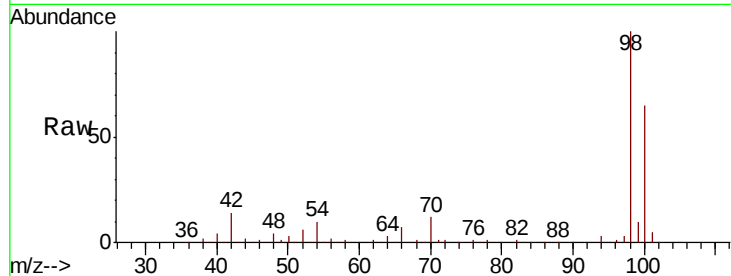




#50  
Toluene-d8  
Concen: 49.340 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. -0.00 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

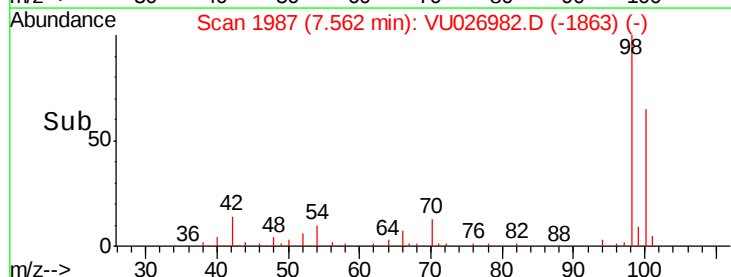
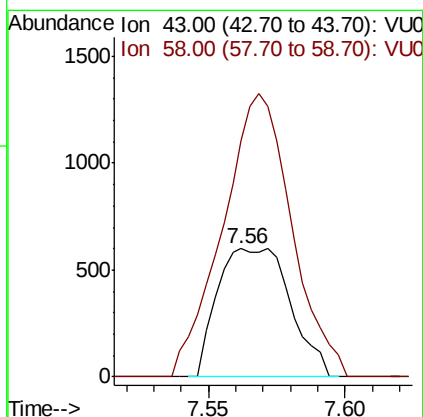
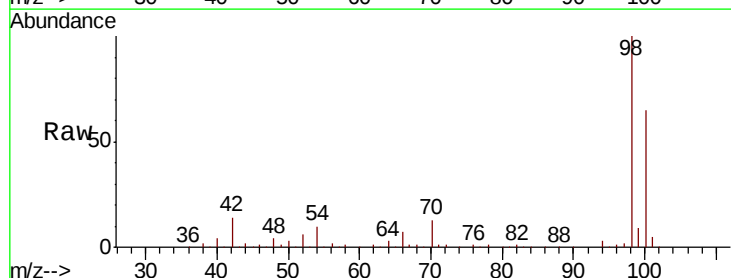
Instrument :  
MSVOA\_U  
ClientSampleId :  
FC-MW051-20180911

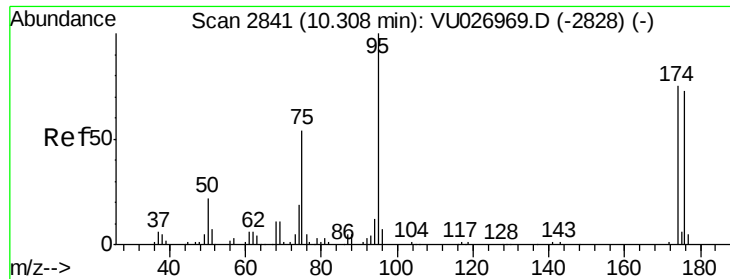
Tgt Ion: 98 Resp: 251960  
Ion Ratio Lower Upper  
98 100  
100 62.2 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.404 ug/l  
RT: 7.56 min Scan# 1987  
Delta R.T. 0.10 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

Tgt Ion: 43 Resp: 1108  
Ion Ratio Lower Upper  
43 100  
58 209.7 29.8 44.6#

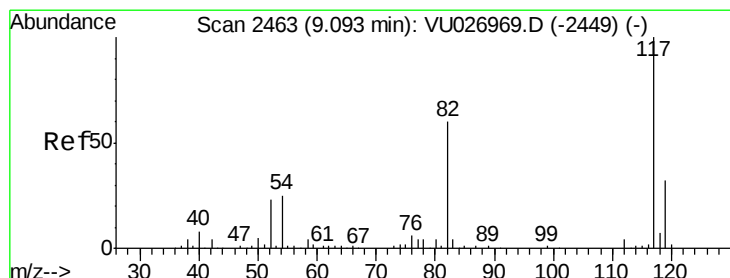
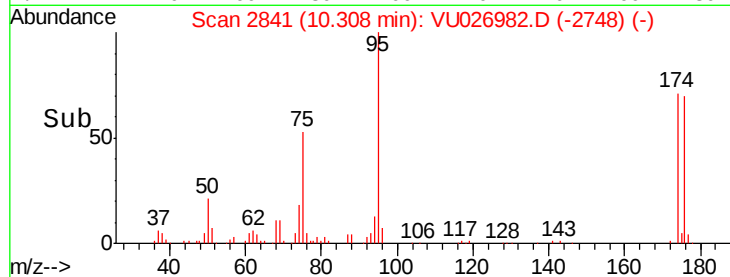
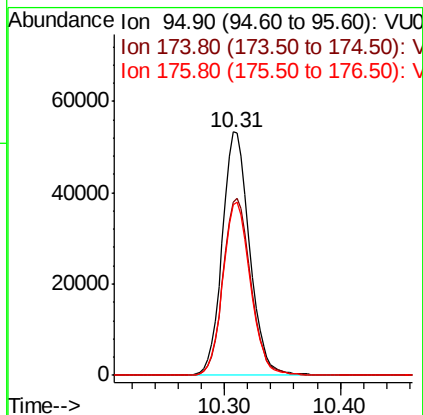
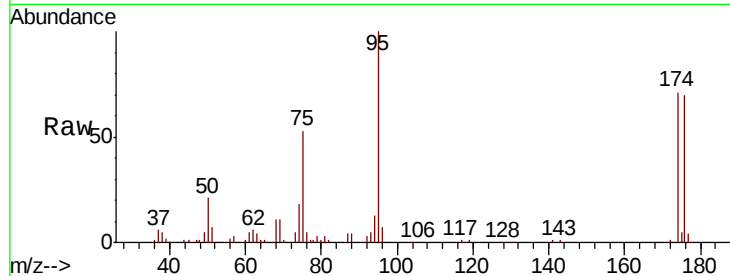




#62  
4-Bromofluorobenzene  
Concen: 49.664 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. -0.00 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

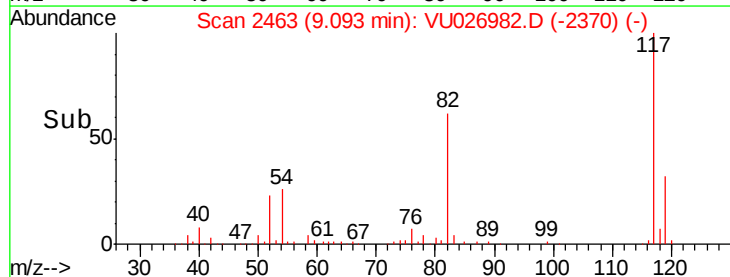
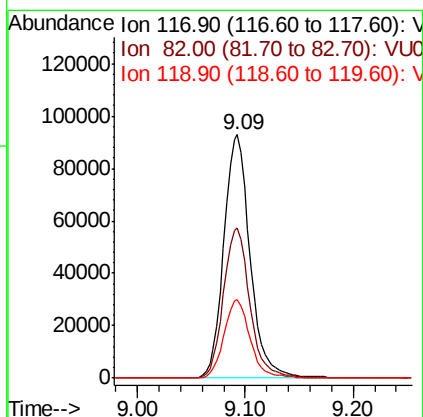
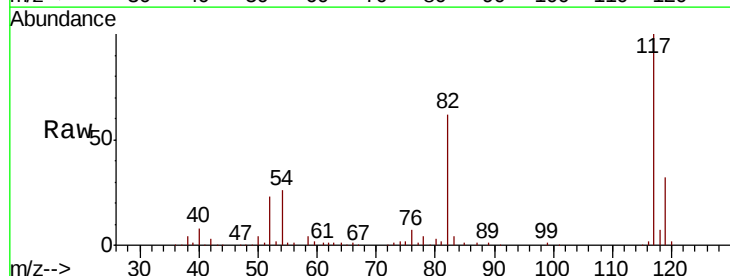
Instrument :  
MSVOA\_U  
ClientSampleId :  
FC-MW05I-20180911

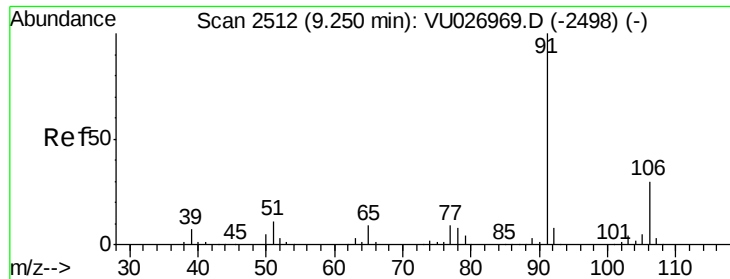
Tgt Ion: 95 Resp: 87023  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 150.2  
176 71.5 0.0 145.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. -0.00 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

Tgt Ion: 117 Resp: 157376  
Ion Ratio Lower Upper  
117 100  
82 61.8 48.0 72.0  
119 32.0 25.8 38.8

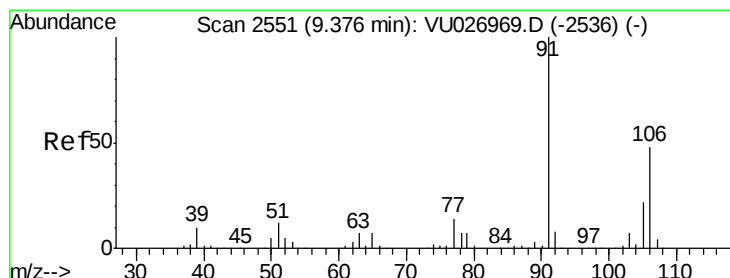
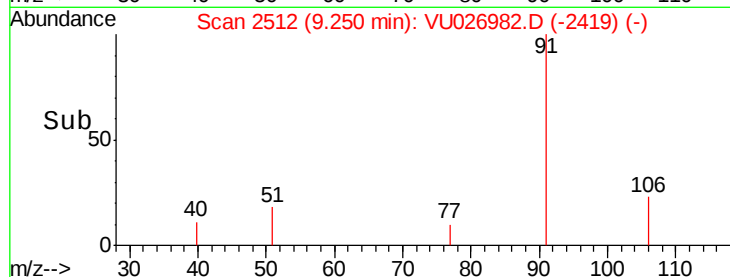
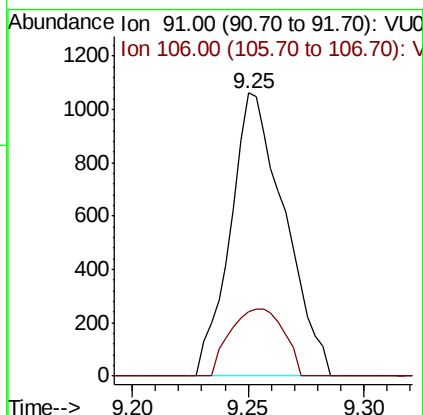
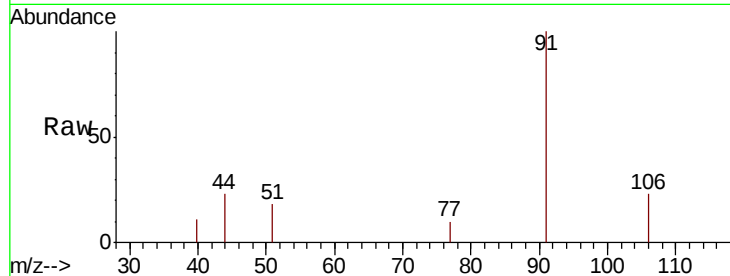




#67  
Ethyl Benzene  
Concen: 0.251 ug/l  
RT: 9.25 min Scan# 2512  
Delta R.T. -0.00 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

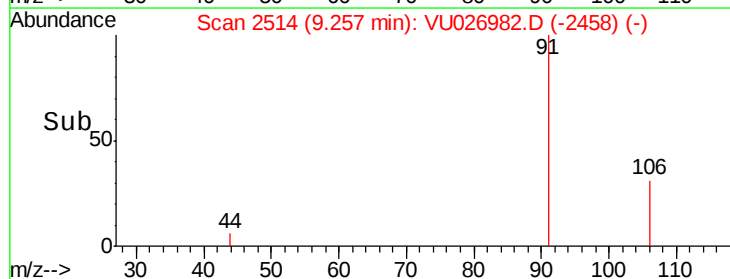
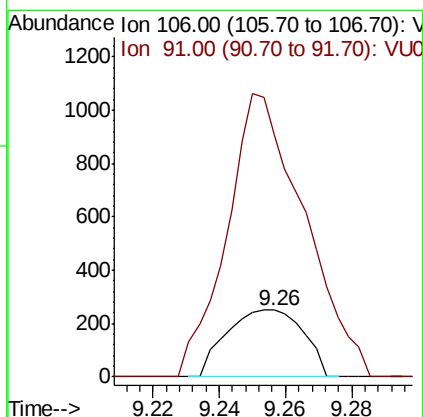
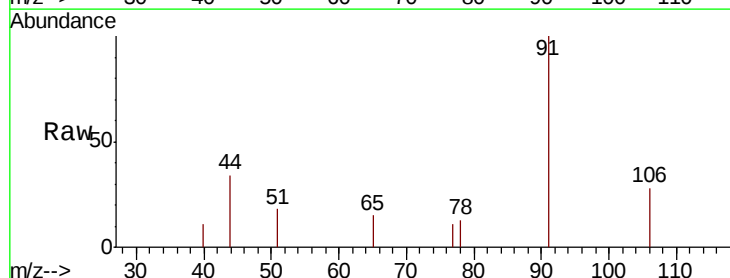
Instrument :  
MSVOA\_U  
ClientSampleId :  
FC-MW05I-20180911

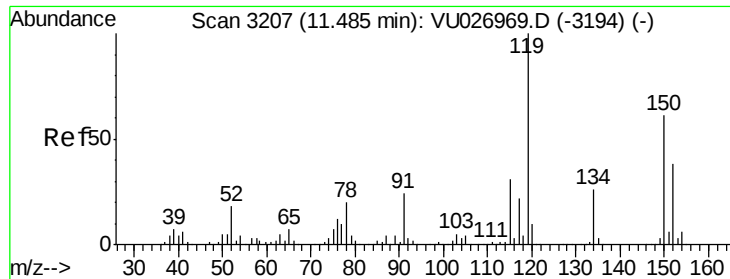
Tgt Ion: 91 Resp: 1725  
Ion Ratio Lower Upper  
91 100  
106 22.6 23.8 35.8#



#68  
m/p-Xylenes  
Concen: 1.644 ug/l  
RT: 9.26 min Scan# 2514  
Delta R.T. -0.12 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

Tgt Ion: 106 Resp: 403  
Ion Ratio Lower Upper  
106 100  
91 428.0 166.5 249.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU026982.D

Acq: 21 Sep 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

FC-MW05I-20180911

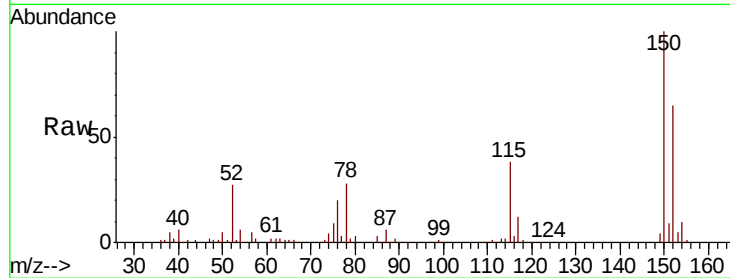
Tgt Ion: 152 Resp: 77902

Ion Ratio Lower Upper

152 100

115 60.1 44.9 134.5

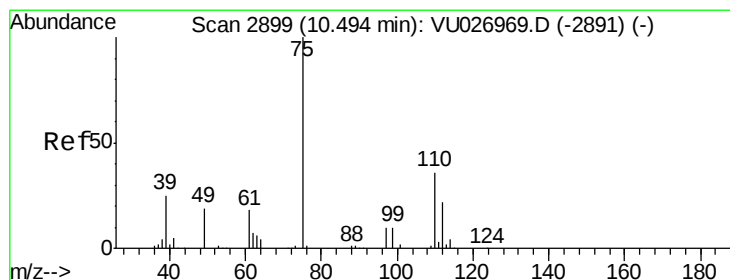
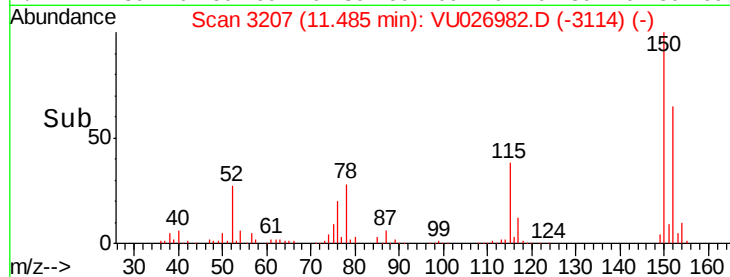
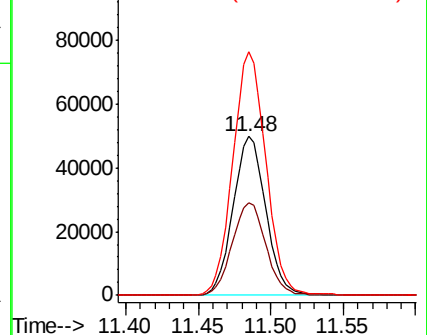
150 155.4 0.0 355.8



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: 19.450 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU026982.D

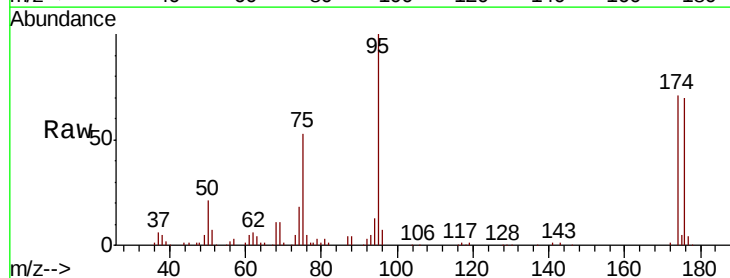
Acq: 21 Sep 2018 21:15

Tgt Ion: 75 Resp: 46031

Ion Ratio Lower Upper

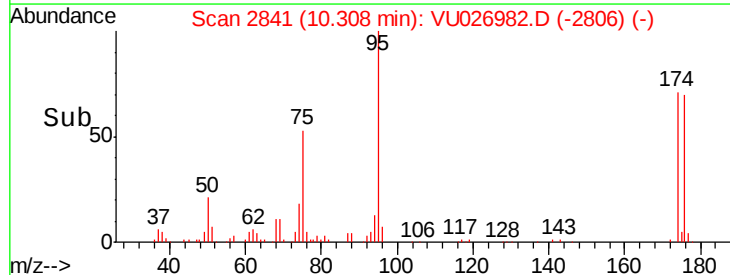
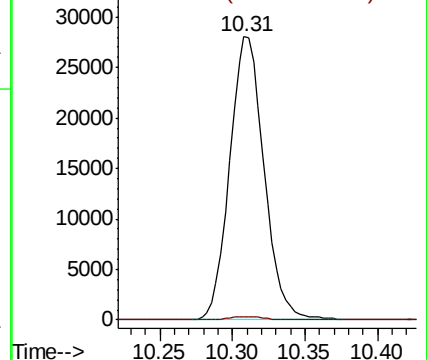
75 100

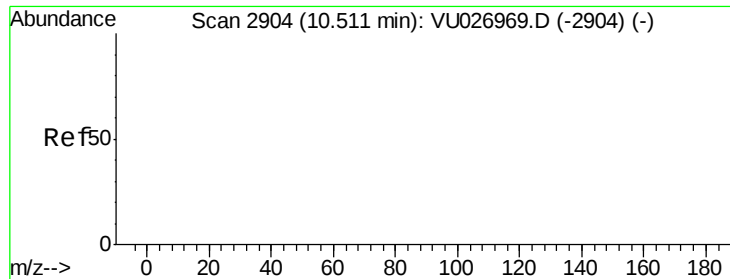
77 1.1 20.9 62.8#



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: 62.243 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU026982.D

Acq: 21 Sep 2018 21:15

Instrument :

MSVOA\_U

ClientSampleId :

FC-MW051-20180911

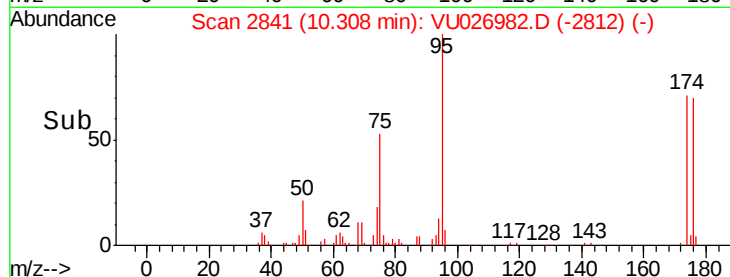
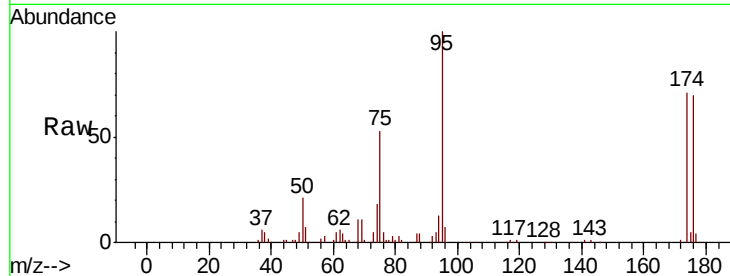
Tgt Ion: 75 Resp: 46031

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

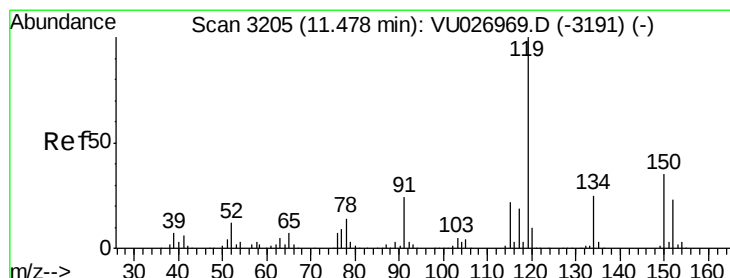
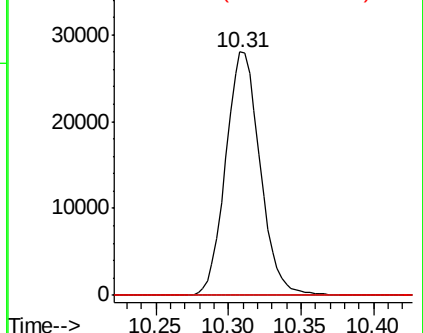
89 0.0 0.0 0.0



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: 0.953 ug/l

RT: 11.48 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU026982.D

Acq: 21 Sep 2018 21:15

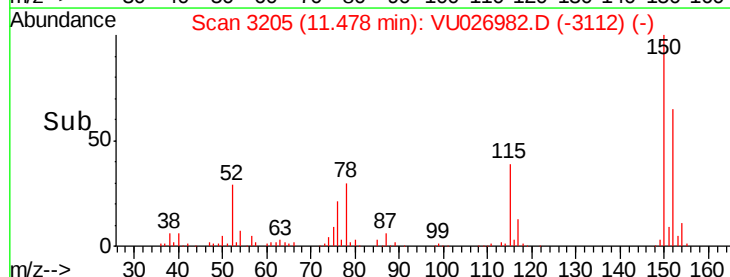
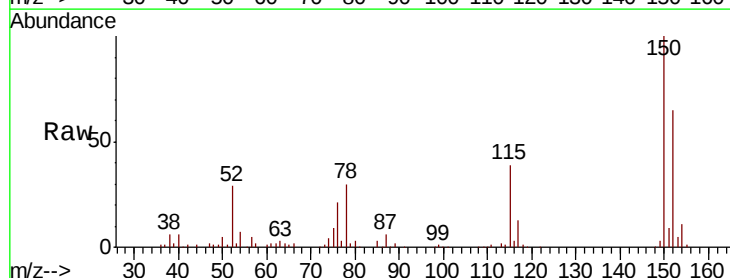
Tgt Ion: 119 Resp: 142

Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

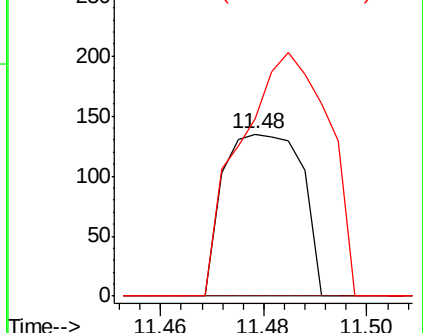
91 169.0 12.3 36.8#

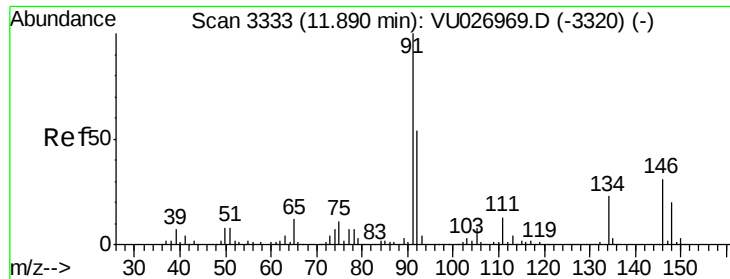


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0

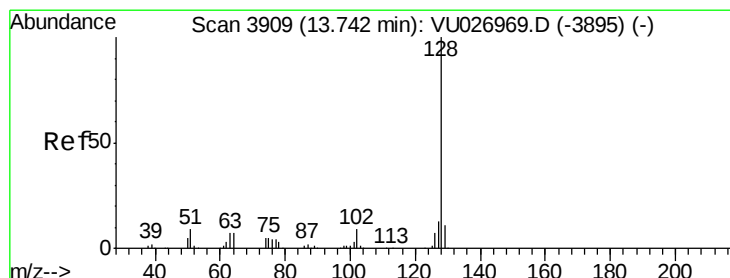
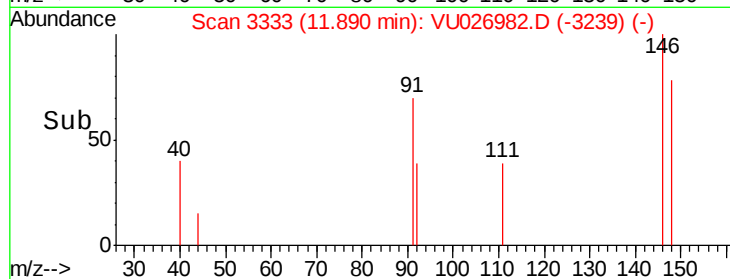
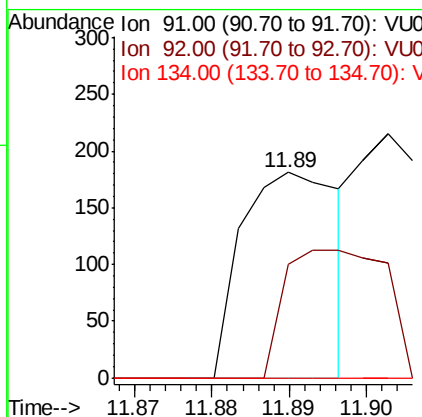
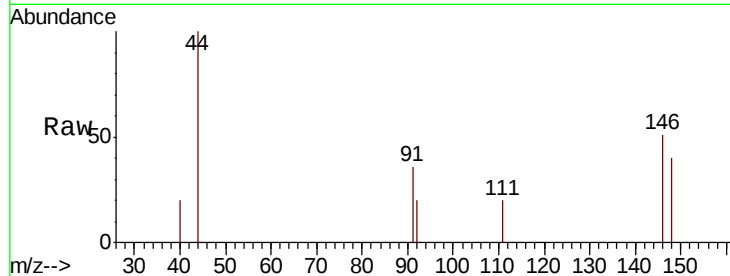




#89  
n-Butylbenzene  
Concen: 2.420 ug/l  
RT: 11.89 min Scan# 3333  
Delta R.T. 0.00 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
FC-MW051-20180911

Tgt Ion: 91 Resp: 158  
Ion Ratio Lower Upper  
91 100  
92 64.6 27.1 81.2  
134 0.0 11.7 35.0#



#95  
Naphthalene  
Concen: 2.518 ug/l  
RT: 13.75 min Scan# 3912  
Delta R.T. 0.01 min  
Lab File: VU026982.D  
Acq: 21 Sep 2018 21:15

Tgt Ion: 128 Resp: 5535  
Ion Ratio Lower Upper  
128 100  
127 11.9 10.6 15.8  
129 9.4 8.6 12.8

