

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070318\  
 Data File : VU025189.D  
 Acq On : 03 Jul 2018 14:27  
 Operator : MD/SY  
 Sample : J3760-05  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jul 04 04:58:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 203082   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 307126   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 280627   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 142760   | 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   | 155939   | 47.04 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.08% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 118540   | 46.51 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.02% |          |
| 50) Toluene-d8              | 7.57  | 98   | 435428   | 46.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.66% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 160339   | 43.44 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.88% |          |

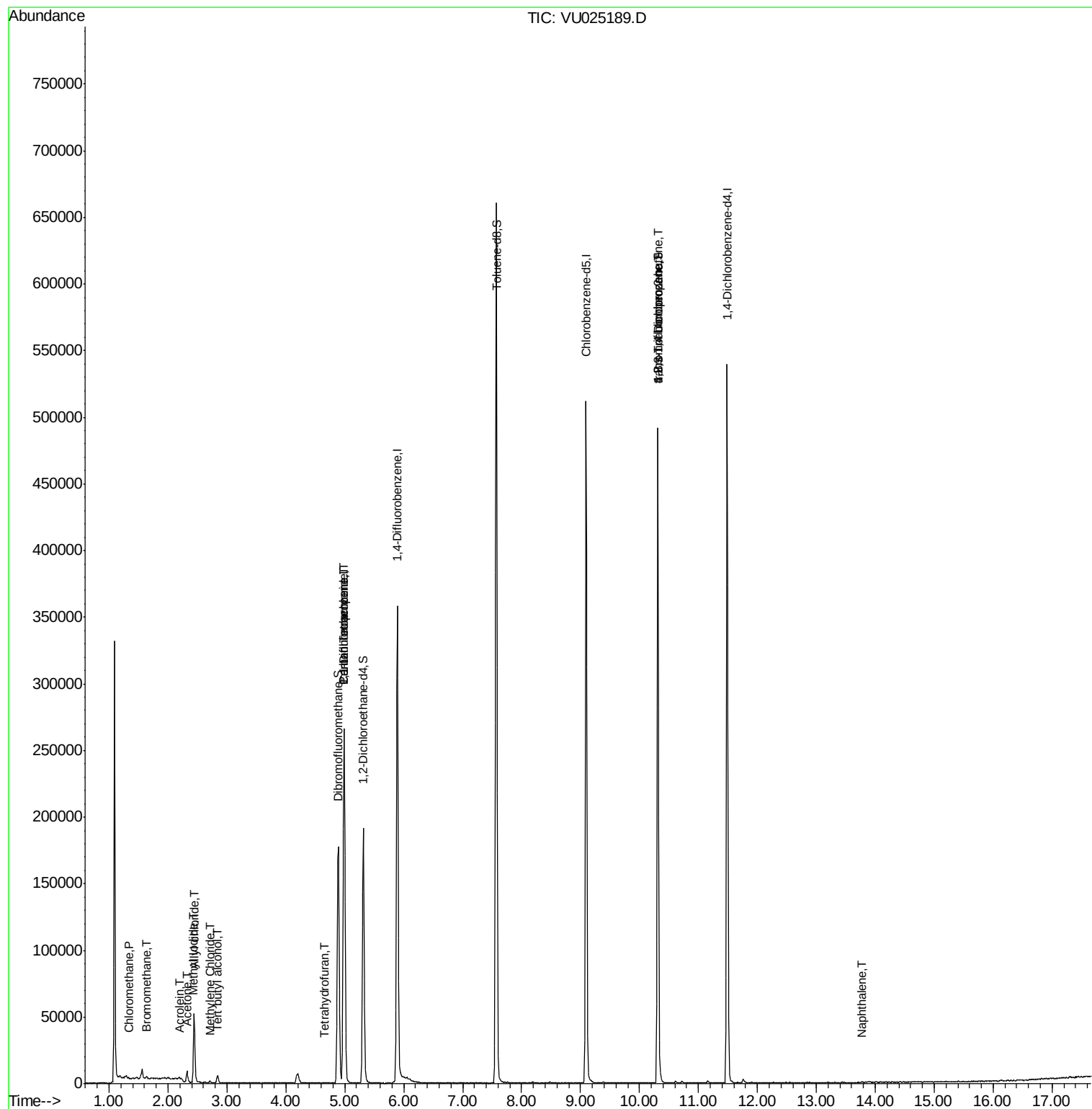
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 520      | 0.200     | ug/l   | 99     |
| 5) Bromomethane                | 1.63  | 94   | 528      | 0.408     | ug/l # | 47     |
| 6) Chloroethane                | 1.69  | 64   | 44       | Below Cal | #      | 43     |
| 10) Methyl Iodide              | 2.42  | 142  | 165      | 5.357     | ug/l # | 40     |
| 11) Tert butyl alcohol         | 2.84  | 59   | 3235     | 4.012     | ug/l # | 72     |
| 13) Acrolein                   | 2.19  | 56   | 107      | 0.253     | ug/l # | 2      |
| 14) Allyl chloride             | 2.44  | 41   | 5061     | 1.179     | ug/l # | 73     |
| 16) Acetone                    | 2.32  | 43   | 9432     | 5.295     | ug/l   | 99     |
| 20) Methylene Chloride         | 2.71  | 84   | 795      | 0.284     | ug/l # | 77     |
| 29) Tetrahydrofuran            | 4.66  | 42   | 456      | 0.308     | ug/l # | 34     |
| 31) Cyclohexane                | 4.98  | 56   | 4033     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 15742    | 4.362     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 20355    | 5.129     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 84577    | 26.909    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 84577    | 62.279    | ug/l # | 100    |
| 95) Naphthalene                | 13.78 | 128  | 326      | 0.710     | ug/l # | 69     |

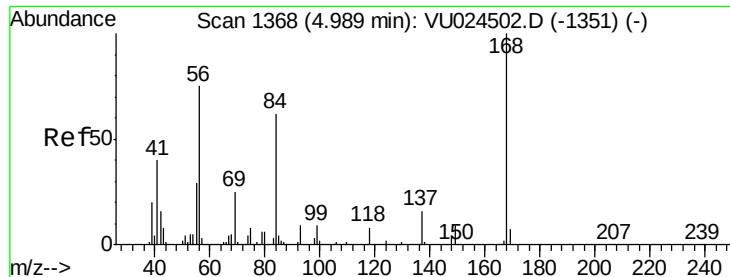
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU070318\  
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Sample : J3760-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jul 04 04:58:10 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

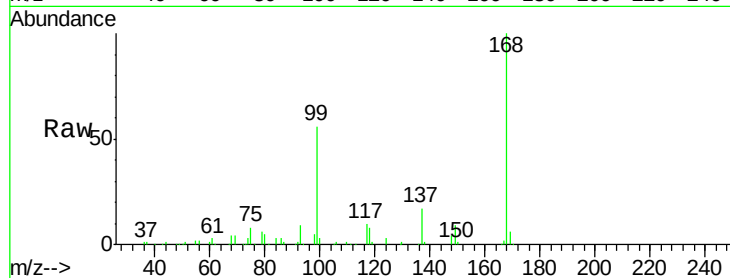
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:168 Resp: 203082

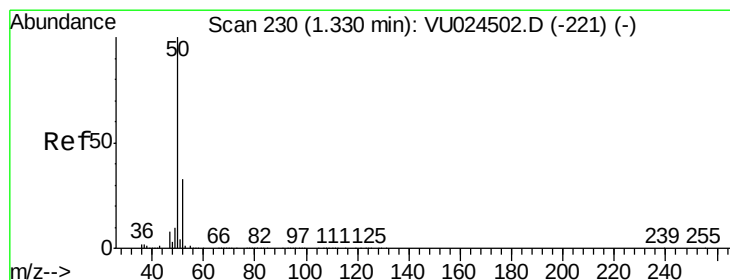
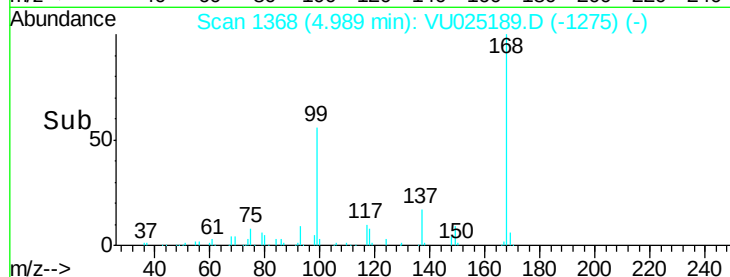
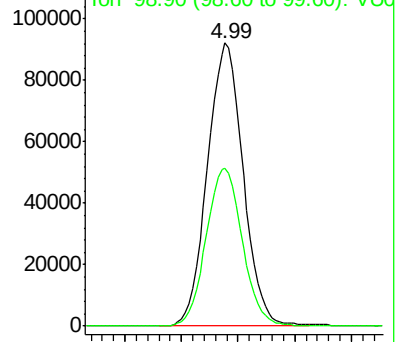
Ion Ratio Lower Upper

168 100

99 55.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.200 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025189.D

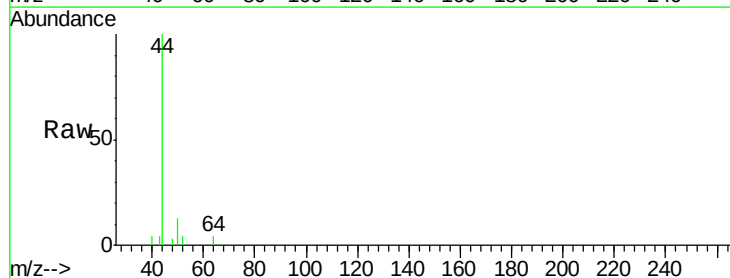
Acq: 03 Jul 2018 14:27

Tgt Ion: 50 Resp: 520

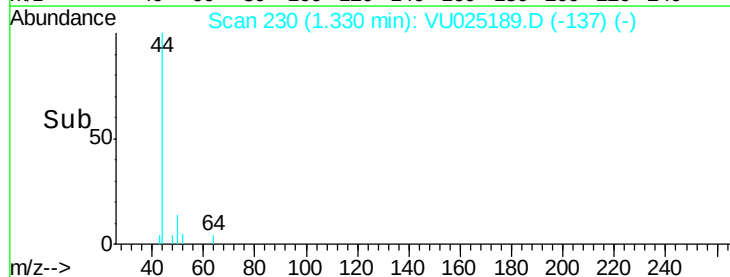
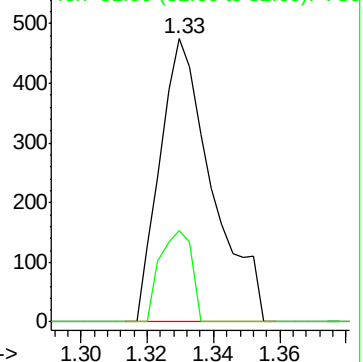
Ion Ratio Lower Upper

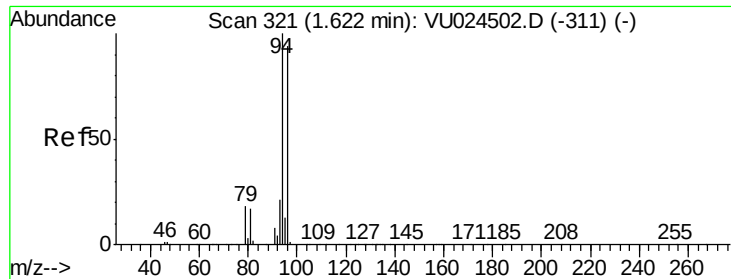
50 100

52 32.3 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.408 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

Instrument :

MSVOA\_U

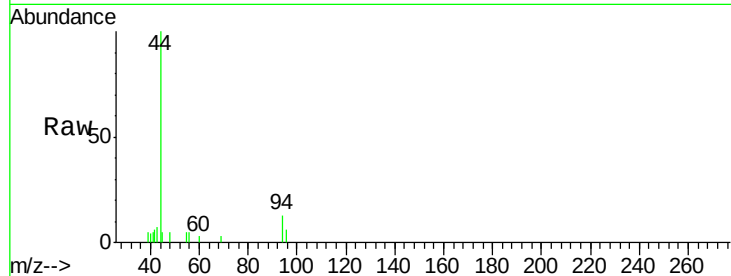
ClientSampleId :

Tot Ion: 94 Resp: 528

Ion Ratio Lower Upper

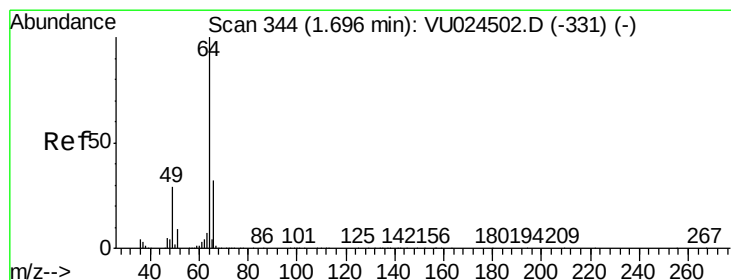
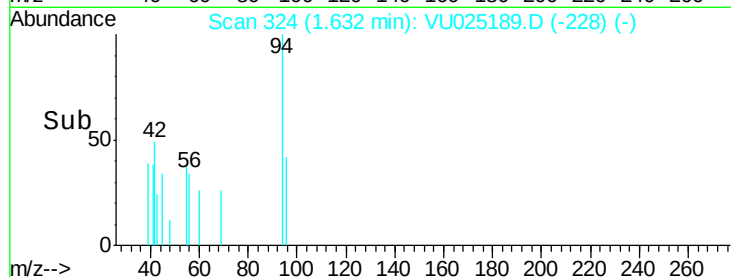
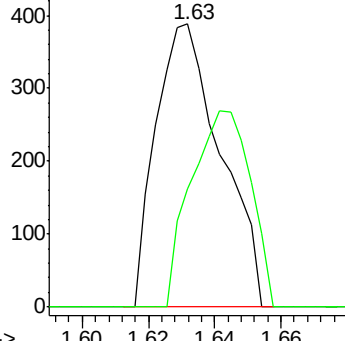
94 100

96 41.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU025189.D

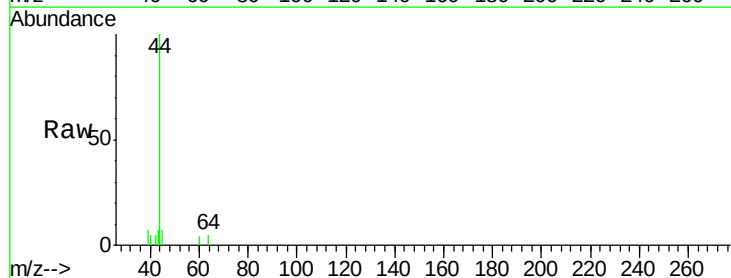
Acq: 03 Jul 2018 14:27

Tgt Ion: 64 Resp: 44

Ion Ratio Lower Upper

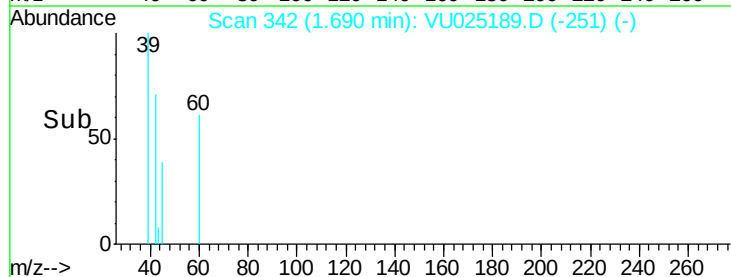
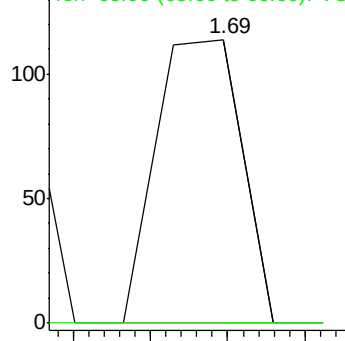
64 100

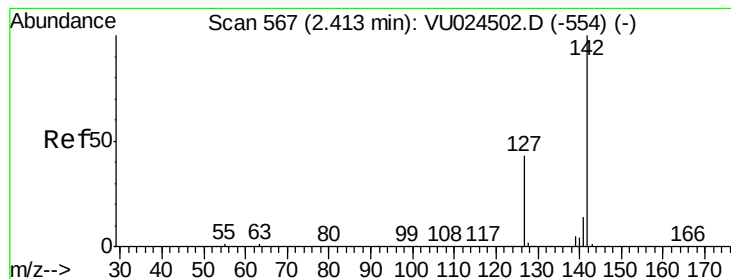
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#10

Methvl Iodide

Concen: 5.357 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

Instrument :

MSVOA\_U

ClientSampleId :

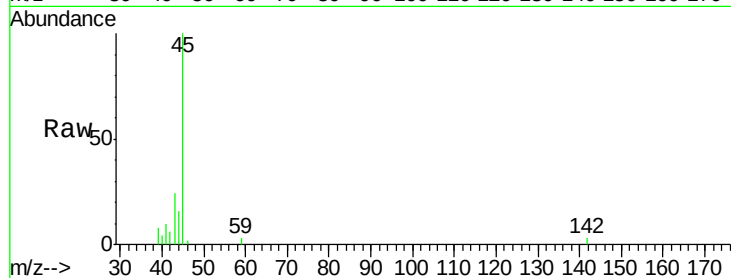
Tot Ion:142 Resp: 165

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

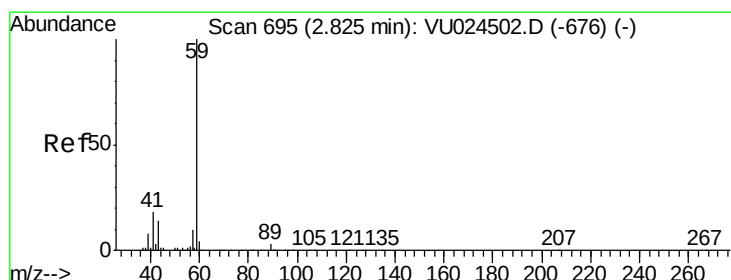
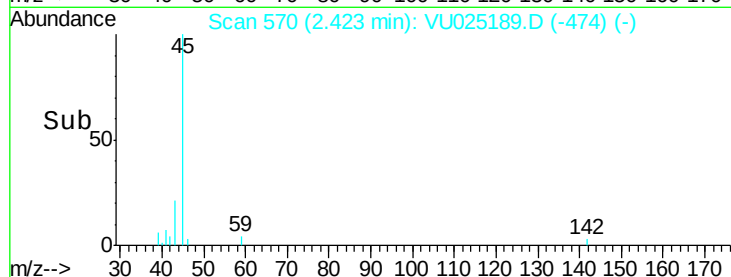
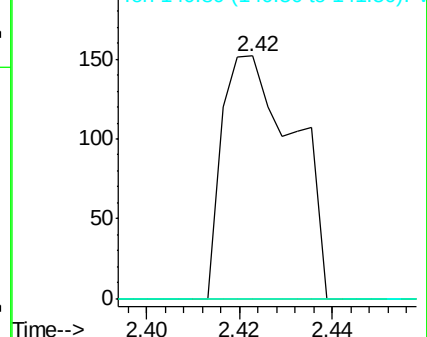
141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 4.012 ug/l

RT: 2.84 min Scan# 700

Delta R.T. 0.02 min

Lab File: VU025189.D

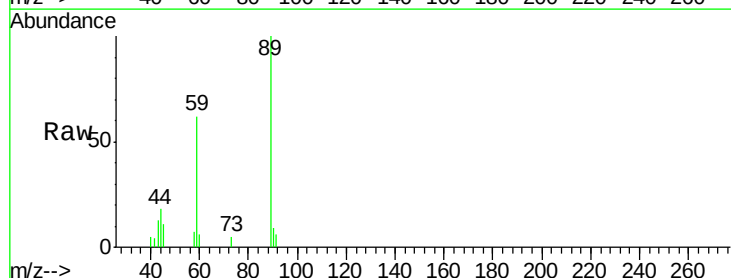
Acq: 03 Jul 2018 14:27

Tgt Ion: 59 Resp: 3235

Ion Ratio Lower Upper

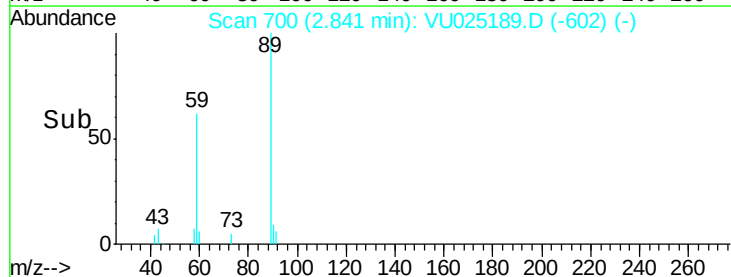
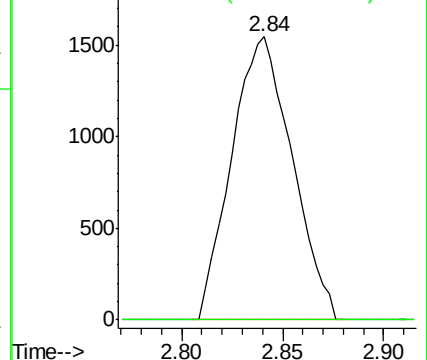
59 100

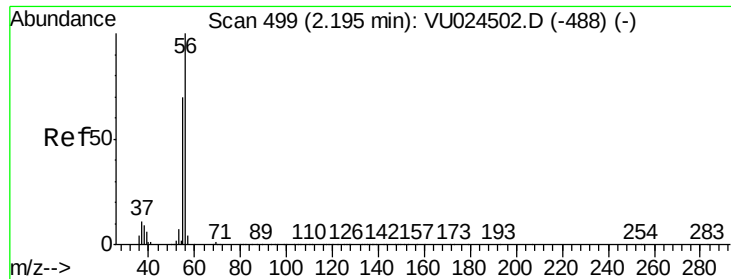
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

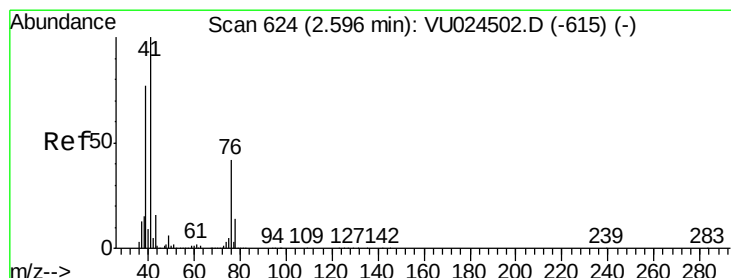
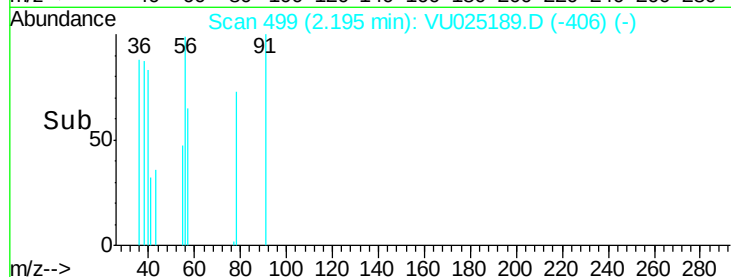
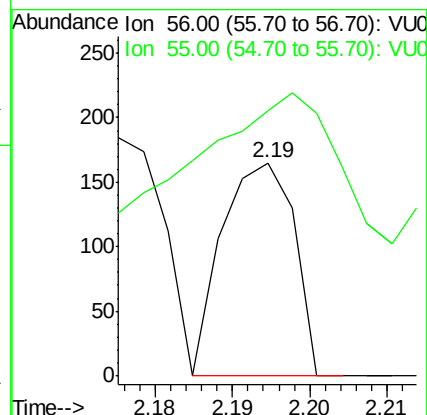
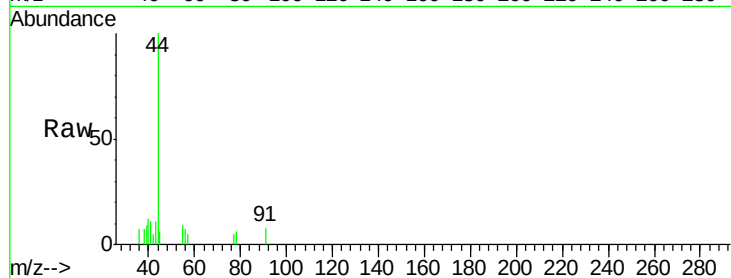




#13  
Acrolein  
Concen: 0.253 ug/l  
RT: 2.19 min Scan# 499  
Delta R.T. 0.00 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

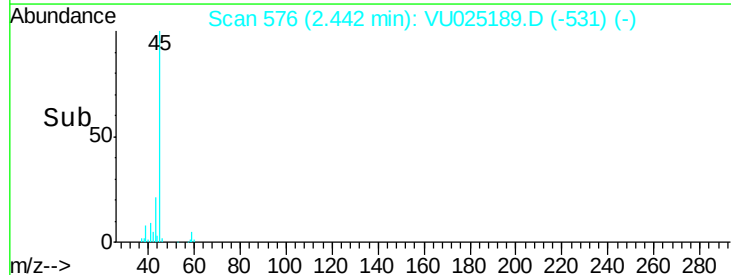
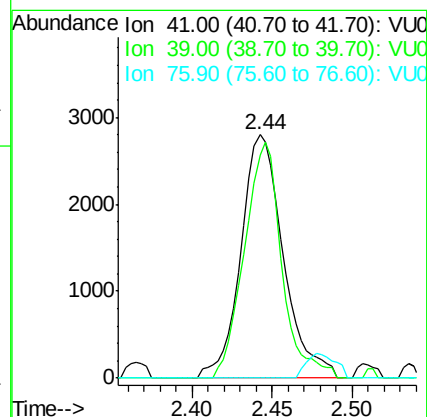
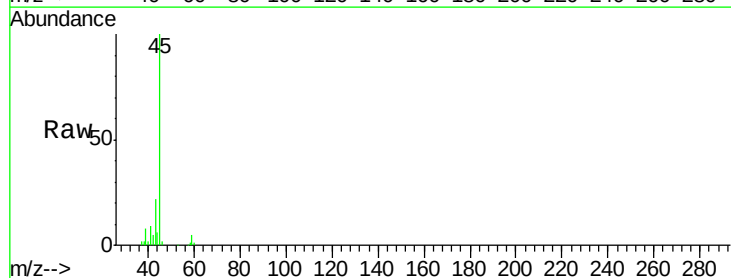
Instrument :  
MSVOA\_U  
ClientSampled :

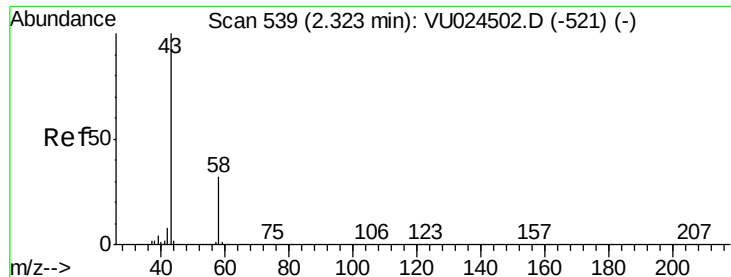
Tot Ion: 56 Resp: 107  
Ion Ratio Lower Upper  
56 100  
55 155.1 58.4 87.6#



#14  
Allyl chloride  
Concen: 1.179 ug/l  
RT: 2.44 min Scan# 576  
Delta R.T. -0.15 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

Tgt Ion: 41 Resp: 5061  
Ion Ratio Lower Upper  
41 100  
39 85.3 61.6 92.4  
76 0.0 29.7 44.5#





#16

Acetone

Concen: 5.295 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

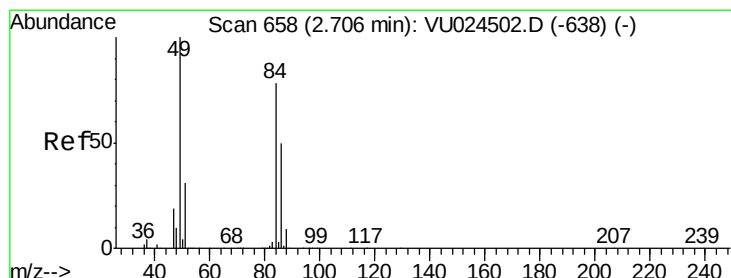
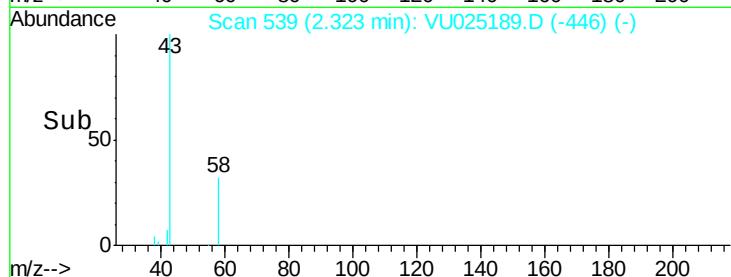
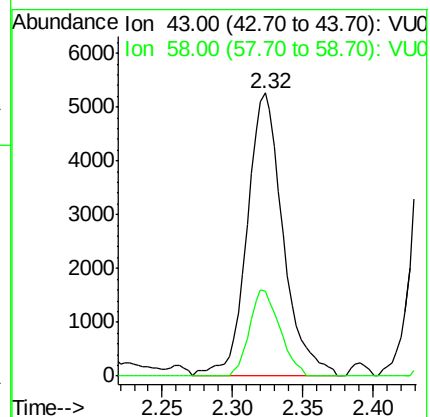
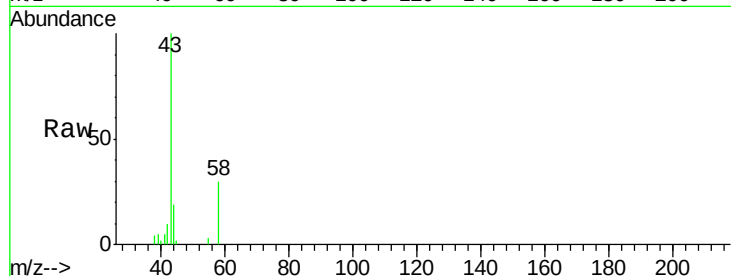
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 9432

Ion Ratio Lower Upper

43 100

58 30.1 24.4 36.6



#20

Methylene Chloride

Concen: 0.284 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.00 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

Tgt Ion: 84 Resp: 795

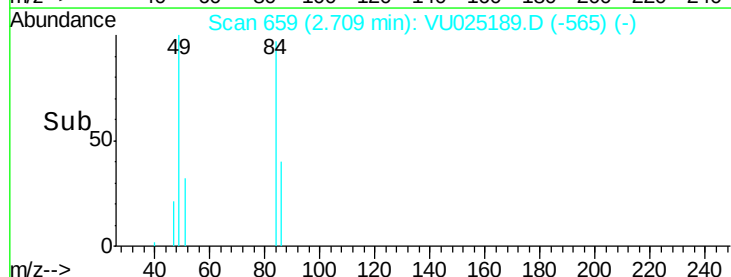
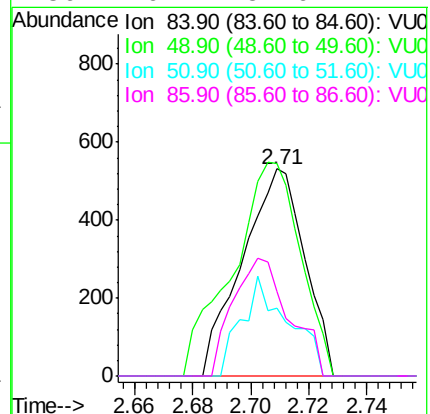
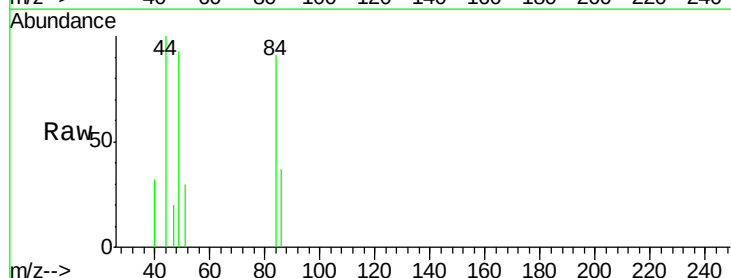
Ion Ratio Lower Upper

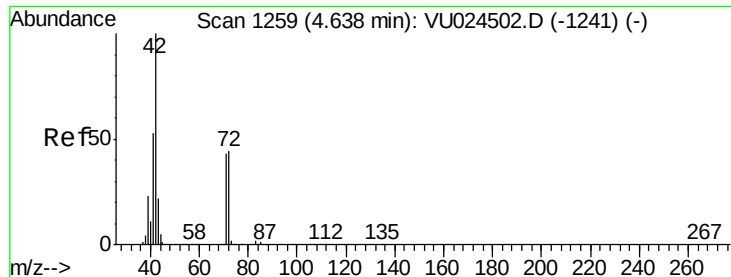
84 100

49 102.6 103.8 155.8#

51 33.1 32.0 48.0

86 40.7 51.6 77.4#





#29

Tetrahydrofuran

Concen: 0.308 ug/l

RT: 4.66 min Scan# 1266

Delta R.T. 0.02 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

Instrument :

MSVOA\_U

ClientSampleId :

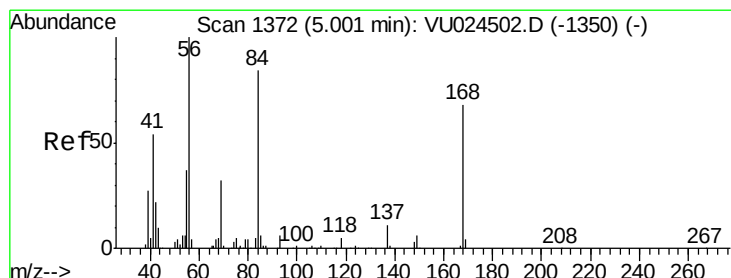
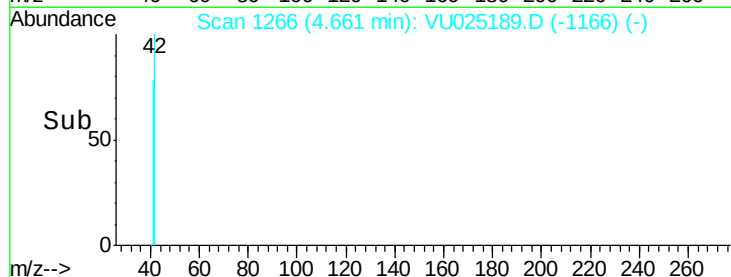
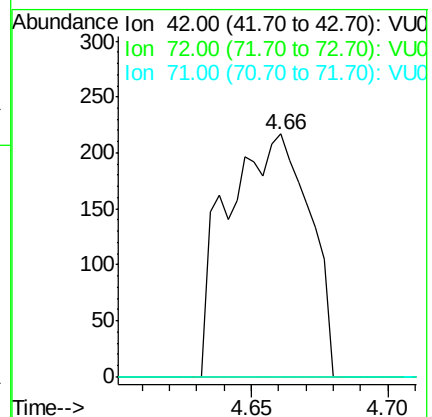
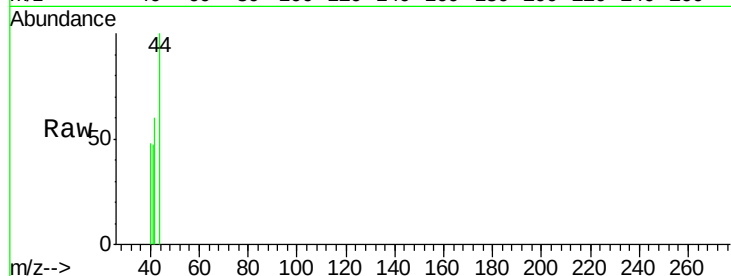
Tot Ion: 42 Resp: 456

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1366

Delta R.T. -0.02 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

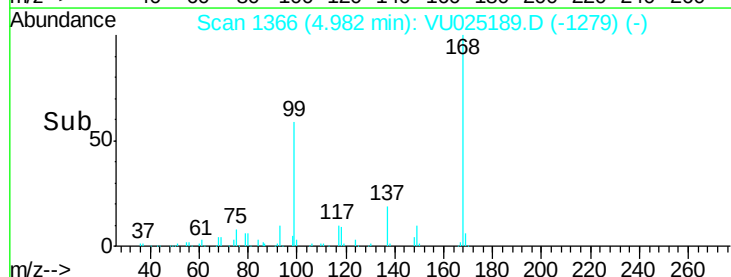
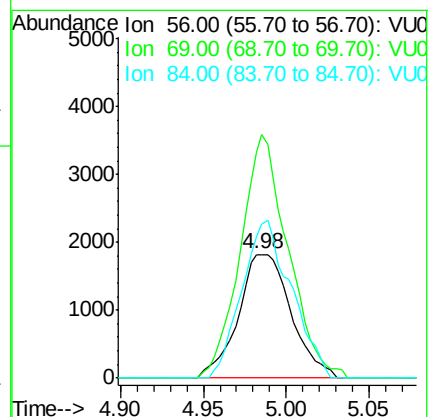
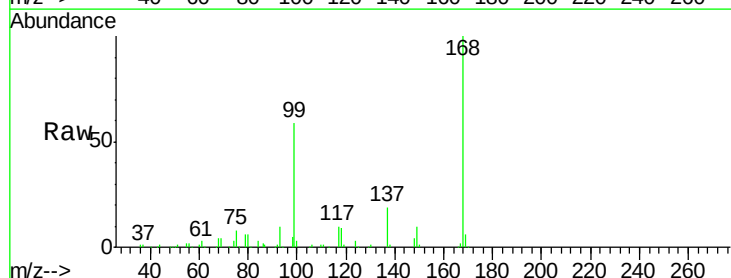
Tgt Ion: 56 Resp: 4033

Ion Ratio Lower Upper

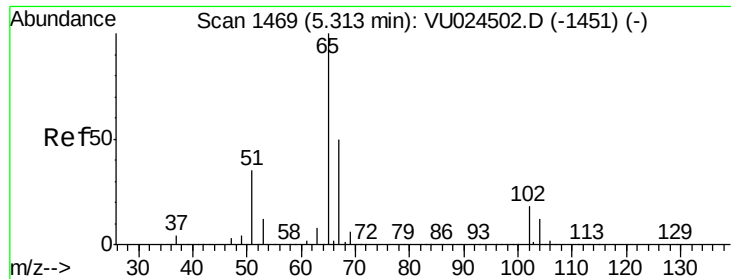
56 100

69 183.2 24.8 37.2#

84 113.9 65.2 97.8#



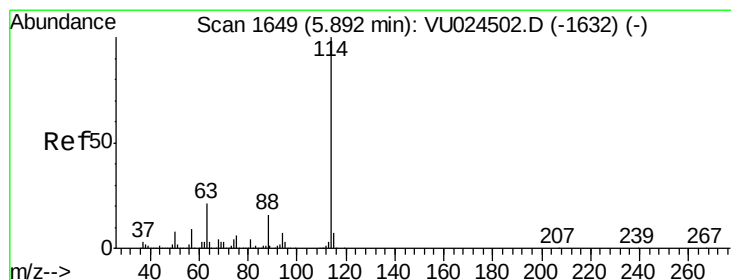
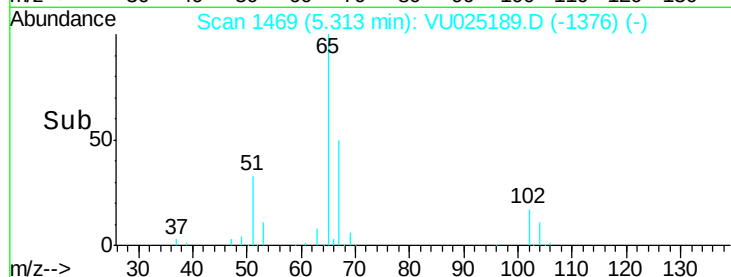
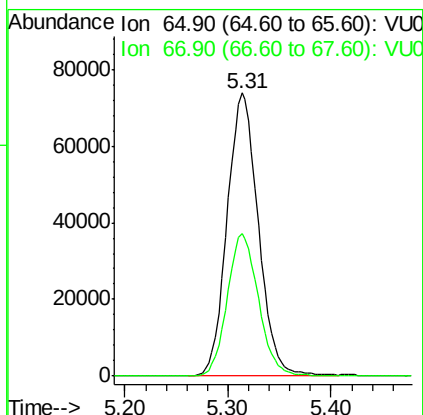
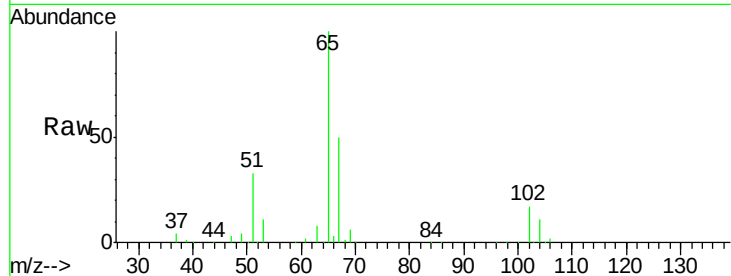




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.035 ug/l  
 RT: 5.31 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VU025189.D  
 Acq: 03 Jul 2018 14:27

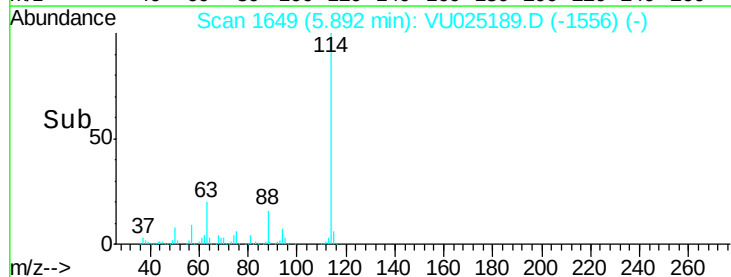
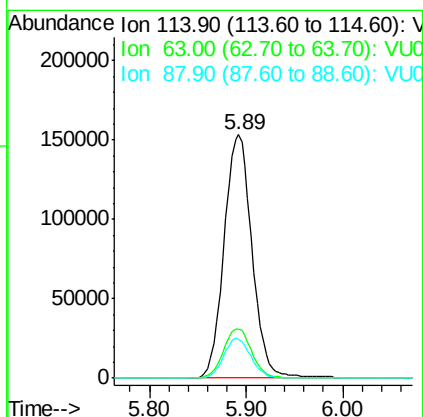
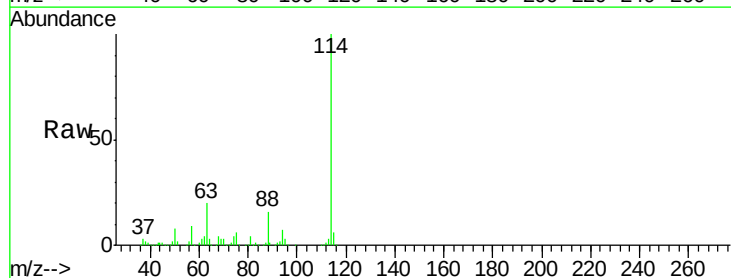
Instrument :  
 MSVOA\_U  
 ClientSampleId :

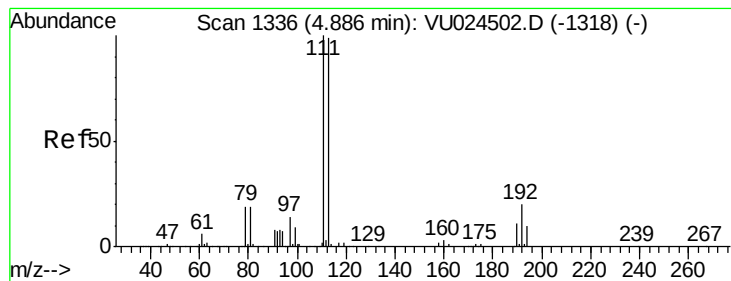
Tot Ion: 65 Resp: 155939  
 Ion Ratio Lower Upper  
 65 100  
 67 50.1 0.0 107.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1649  
 Delta R.T. 0.00 min  
 Lab File: VU025189.D  
 Acq: 03 Jul 2018 14:27

Tgt Ion: 114 Resp: 307126  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 45.4  
 88 16.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.506 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

Instrument :

MSVOA\_U

ClientSampleId :

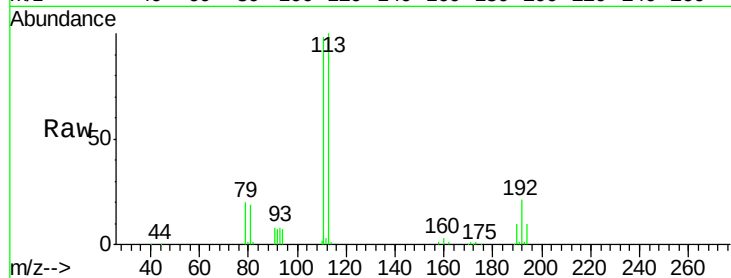
Tot Ion:113 Resp: 118540

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

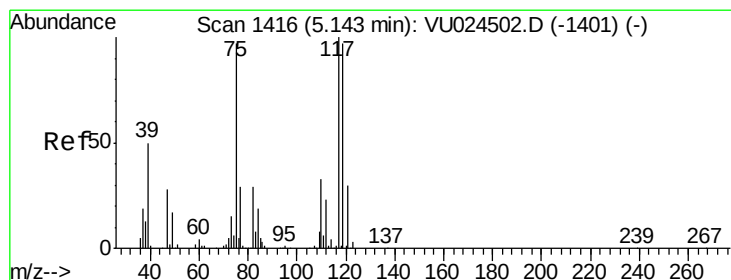
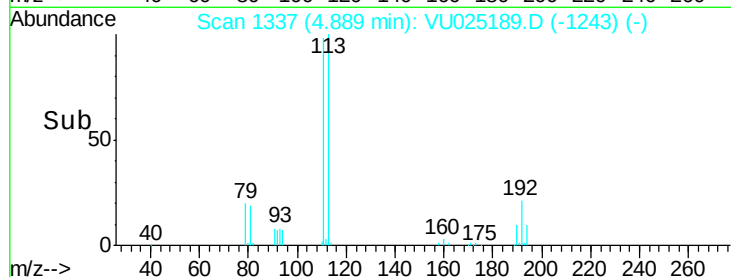
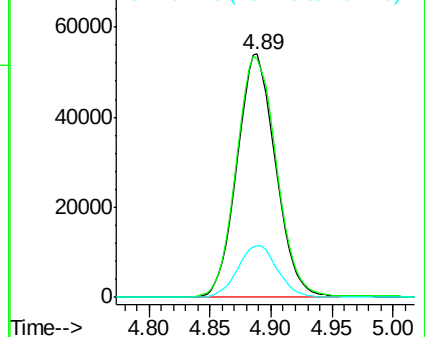
192 21.8 16.2 24.4



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: 4.362 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

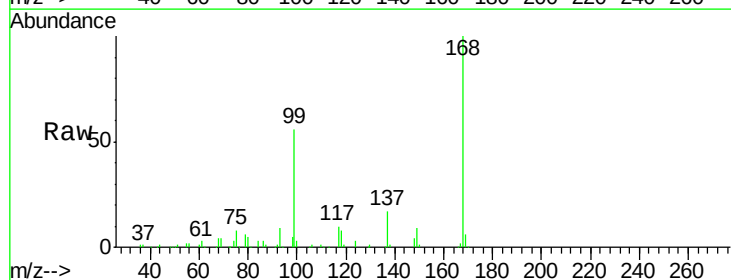
Tgt Ion: 75 Resp: 15742

Ion Ratio Lower Upper

75 100

110 4.3 17.0 50.9#

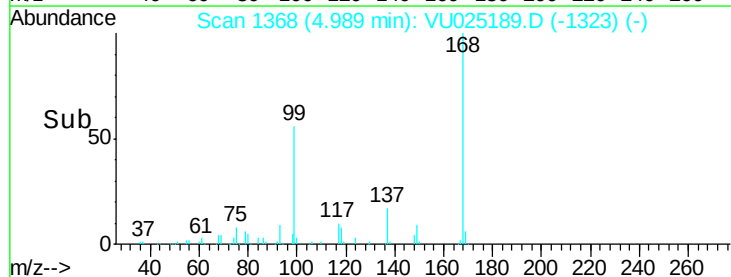
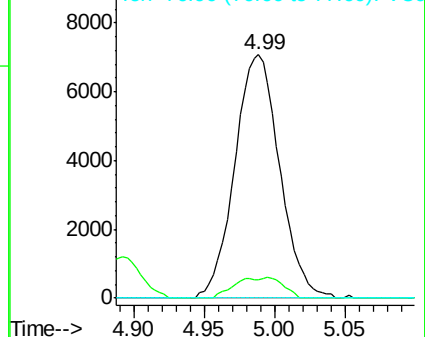
77 0.0 24.2 36.4#

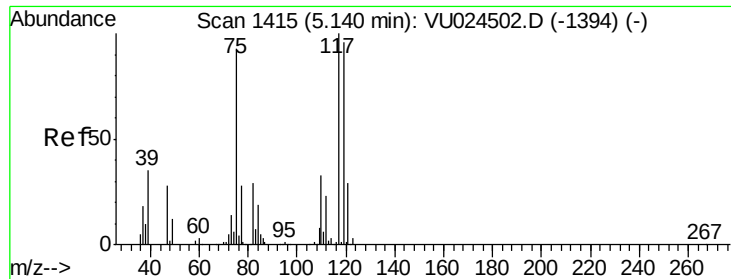


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

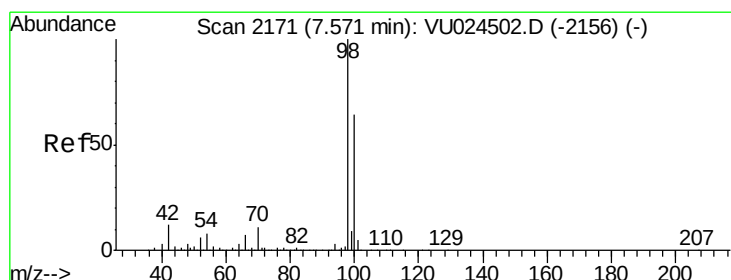
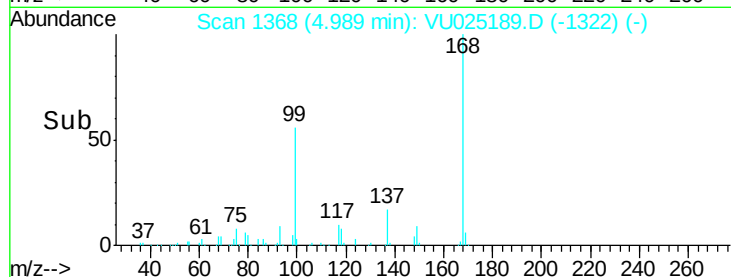
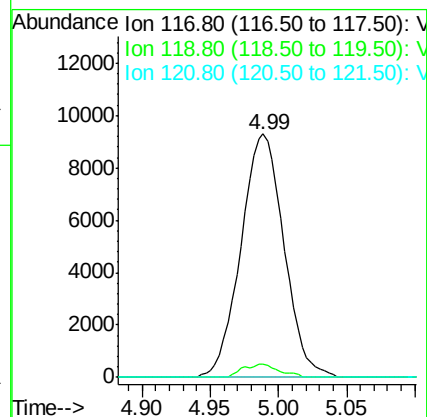
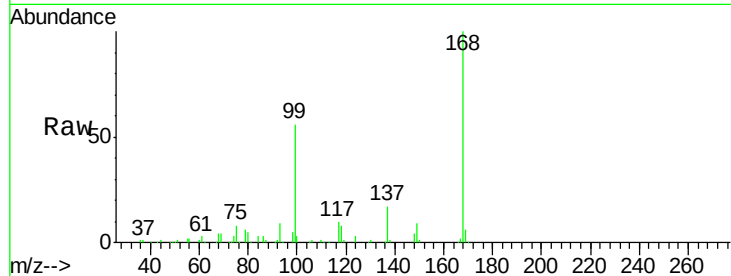




#38  
Carbon Tetrachloride  
Concen: 5.129 ug/l  
RT: 4.99 min Scan# 1368  
Delta R.T. -0.15 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

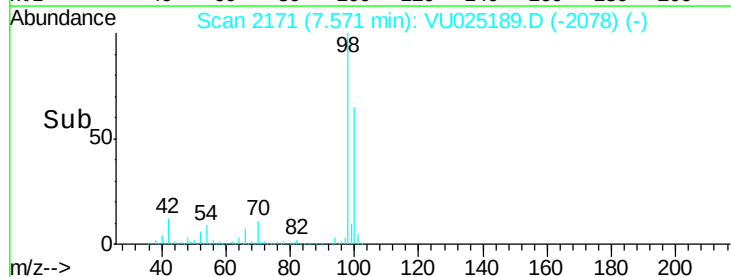
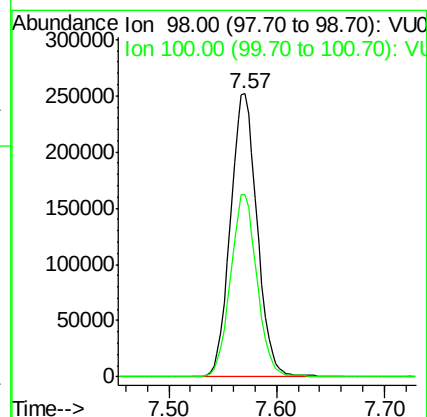
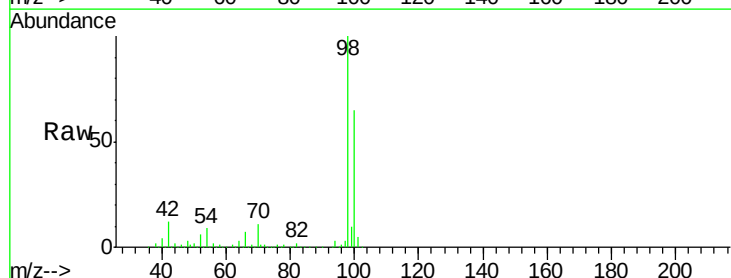
Instrument :  
MSVOA\_U  
ClientSampleId :

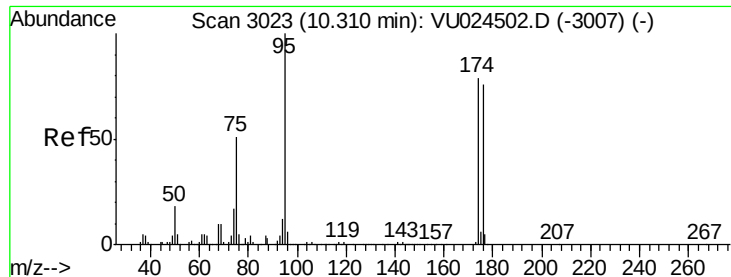
Tot Ion:117 Resp: 20355  
Ion Ratio Lower Upper  
117 100  
119 5.5 76.1 114.1#  
121 0.0 23.7 35.5#



#50  
Toluene-d8  
Concen: 46.833 ug/l  
RT: 7.57 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

Tgt Ion: 98 Resp: 435428  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.1 76.7

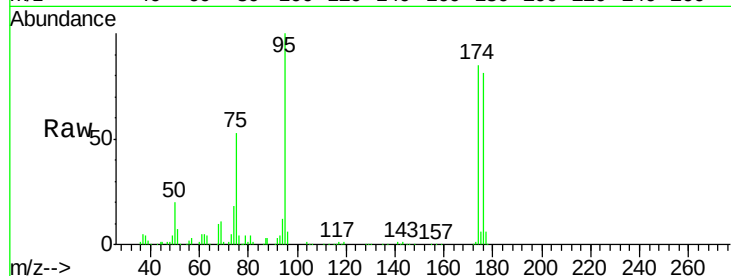




#62  
4-Bromofluorobenzene  
Concen: 43.435 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. 0.00 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

Instrument :  
MSVOA\_U  
ClientSampleId :

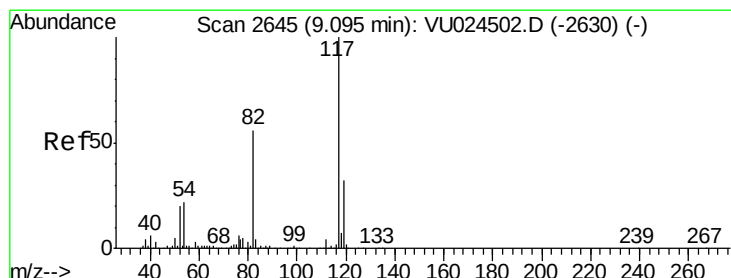
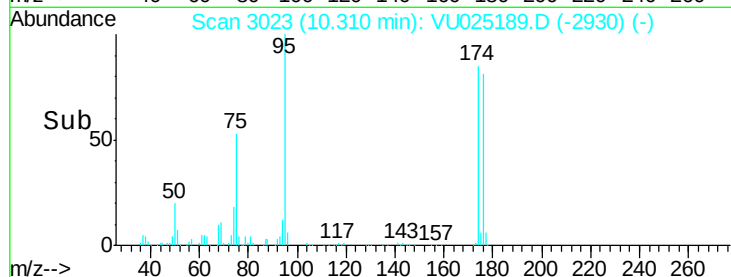
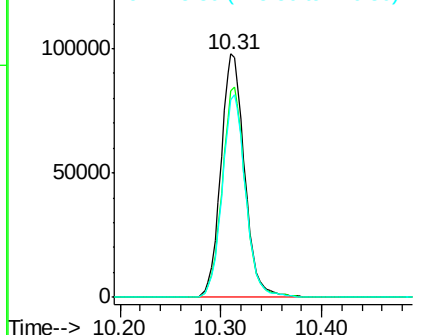
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 84.6  | 0.0   | 165.8 |
| 176     | 82.3  | 0.0   | 159.4 |



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

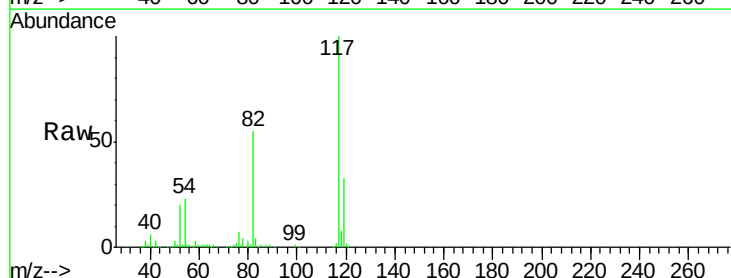
Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

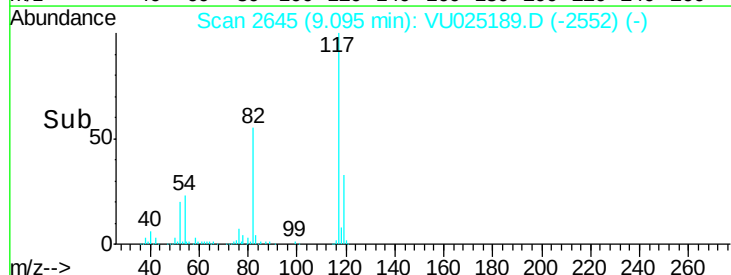
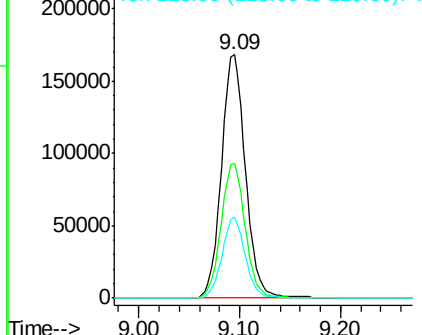
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.5  | 44.3  | 66.5  |
| 119     | 33.1  | 25.4  | 38.2  |

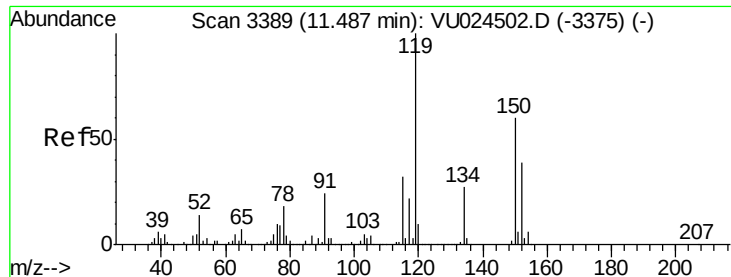


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025189.D

Acq: 03 Jul 2018 14:27

Instrument :

MSVOA\_U

ClientSampleId :

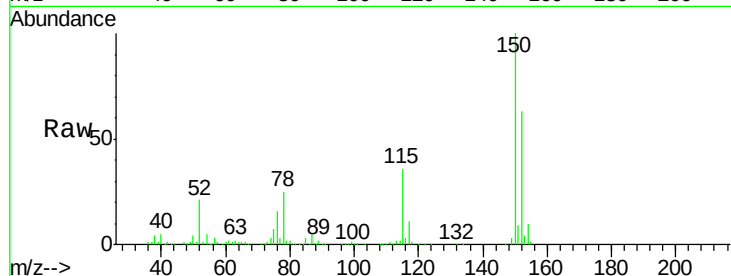
Tot Ion:152 Resp: 142760

Ion Ratio Lower Upper

152 100

115 58.1 43.0 129.0

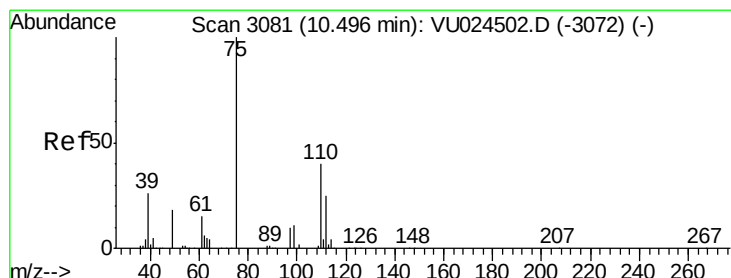
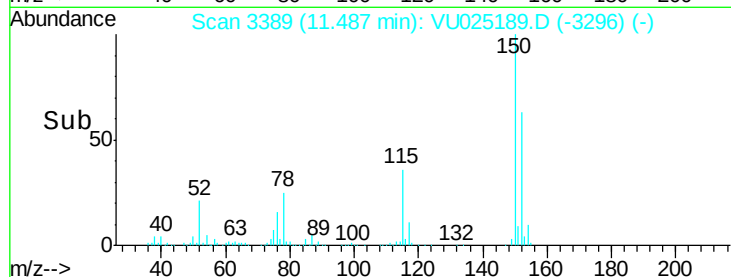
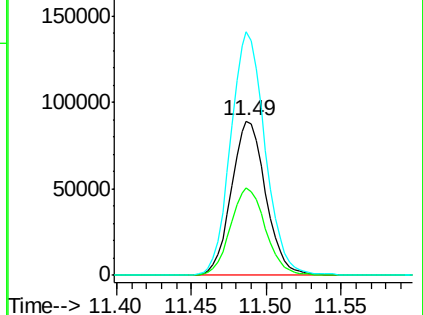
150 158.7 0.0 354.0



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: 26.909 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025189.D

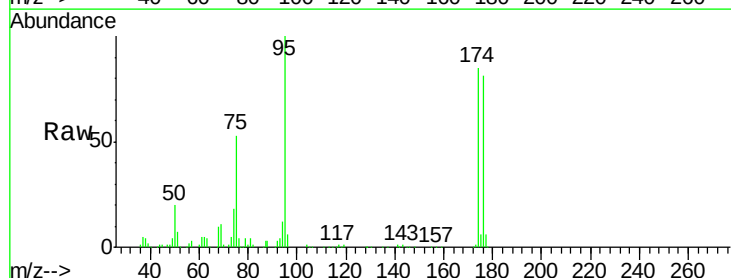
Acq: 03 Jul 2018 14:27

Tgt Ion: 75 Resp: 84577

Ion Ratio Lower Upper

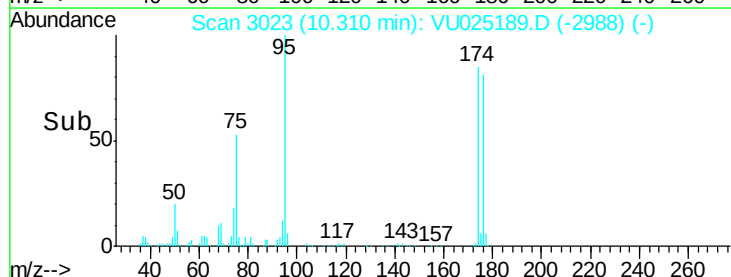
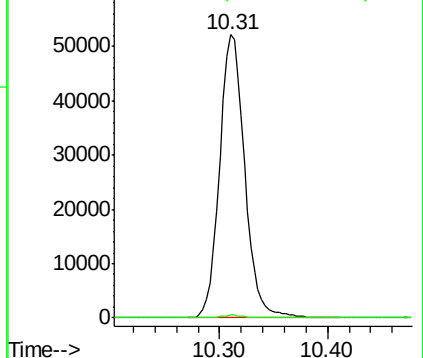
75 100

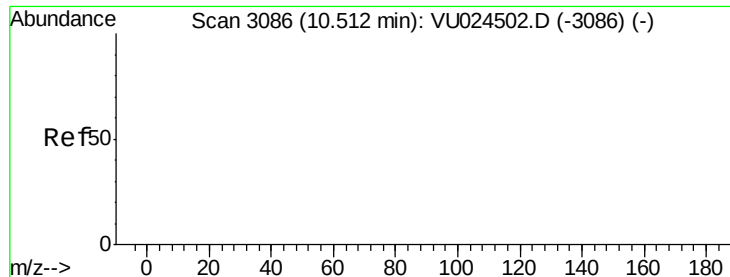
77 0.8 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

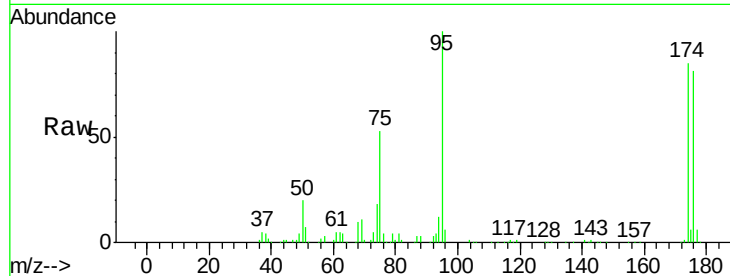




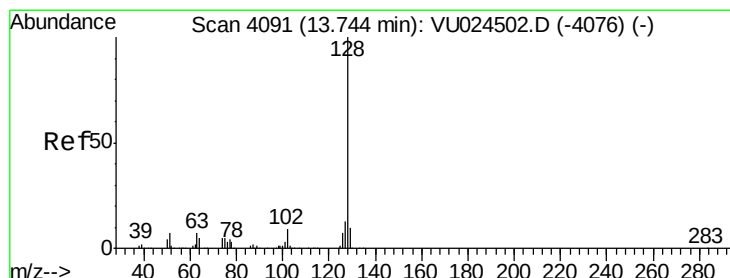
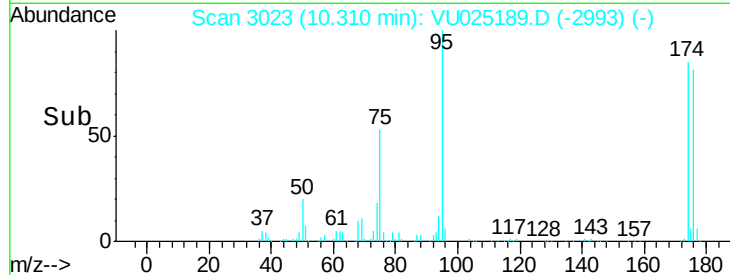
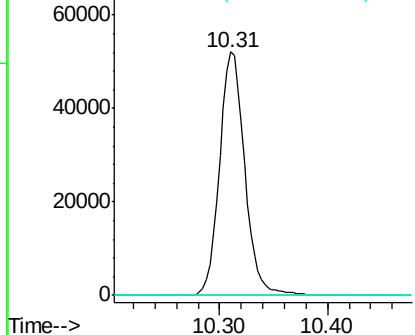
#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.279 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. -0.20 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 75 Resp: 84577  
Ion Ratio Lower Upper  
75 100  
53 0.0 0.0 0.0  
89 0.0 0.0 0.0

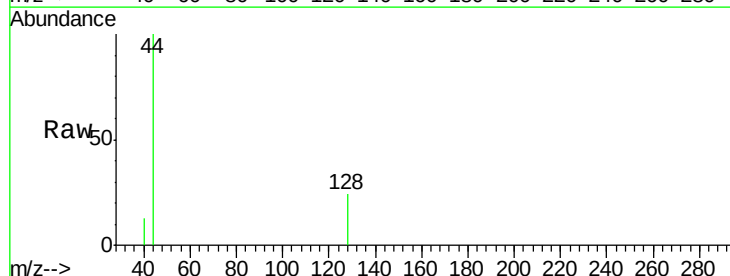


Abundance Ion 74.90 (74.60 to 75.60): VU0  
Ion 53.00 (52.70 to 53.70): VU0  
Ion 88.90 (88.60 to 89.60): VU0



#95  
Naphthalene  
Concen: 0.710 ug/l  
RT: 13.78 min Scan# 4102  
Delta R.T. 0.04 min  
Lab File: VU025189.D  
Acq: 03 Jul 2018 14:27

Tgt Ion:128 Resp: 326  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
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

