

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\  
 Data File : VU025753.D  
 Acq On : 31 Jul 2018 20:51  
 Operator : MD/SY  
 Sample : J4252-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FM-1026

Quant Time: Aug 01 05:30:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 16:07:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 188492   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 300188   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 294282   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 176976   | 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   | 147099   | 50.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.18% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 123323   | 47.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.46%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 435633   | 47.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.36%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 168085   | 47.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.80%  |          |

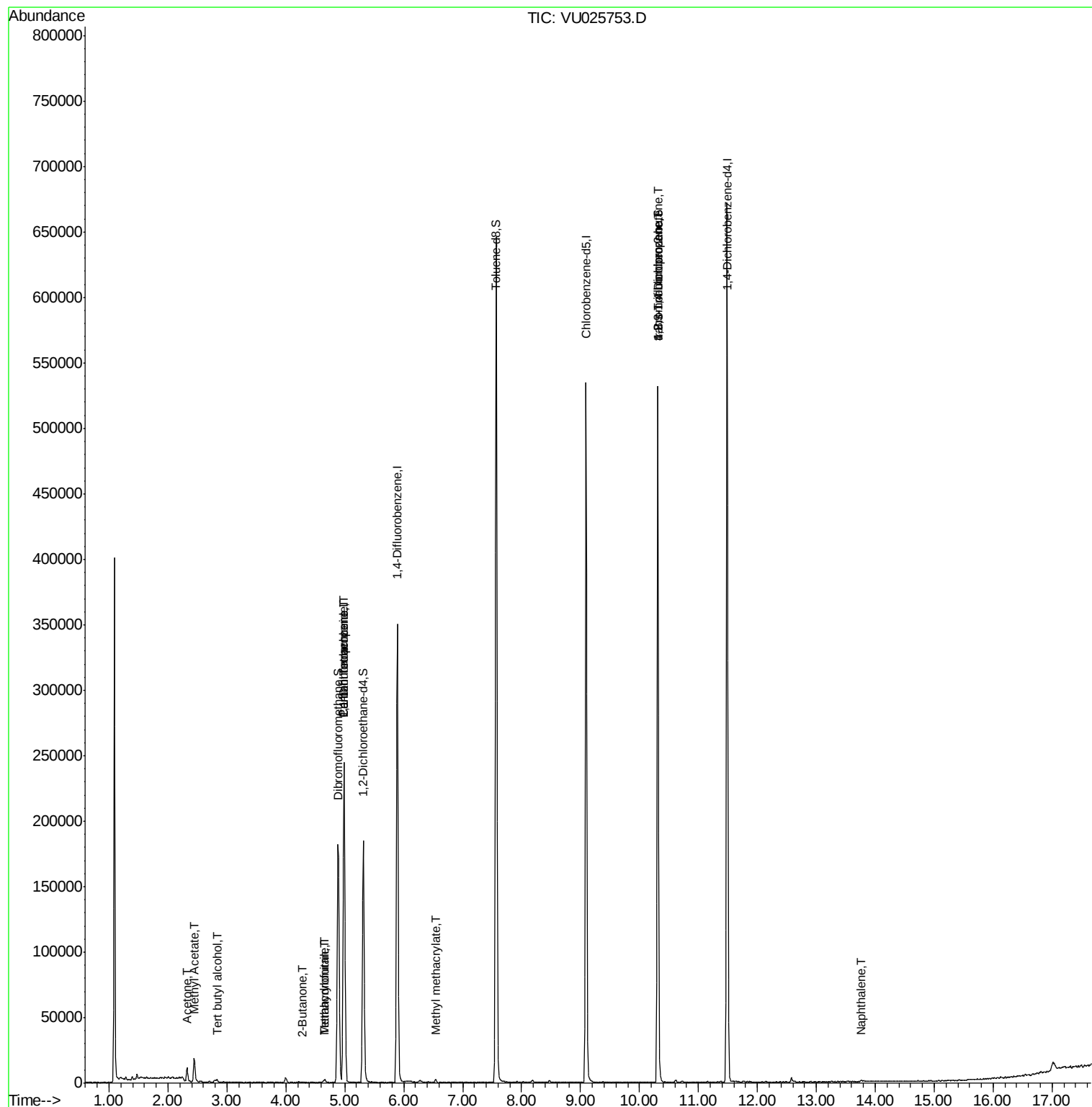
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 2.83  | 59   | 2326     | 3.62      | ug/l # | 75     |
| 13) Acrolein                   | 2.03  | 56   | 20       | Below Cal | #      | 60     |
| 16) Acetone                    | 2.32  | 43   | 11384    | 7.95      | ug/l   | 92     |
| 18) Methyl Acetate             | 2.44  | 43   | 4670     | 1.36      | ug/l # | 52     |
| 25) 2-Butanone                 | 4.28  | 43   | 891      | 0.46      | ug/l # | 49     |
| 29) Tetrahydrofuran            | 4.66  | 42   | 1661     | 1.42      | ug/l # | 52     |
| 31) Cyclohexane                | 4.99  | 56   | 3936     | Below Cal | #      | 34     |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 13423    | 3.83      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 17785    | 4.48      | ug/l # | 17     |
| 41) Methacrylonitrile          | 4.65  | 41   | 1011     | 0.50      | ug/l # | 32     |
| 48) Methyl methacrylate        | 6.54  | 41   | 733      | 0.25      | ug/l # | 30     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 86263    | 22.12     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 86263    | 55.47     | ug/l # | 100    |
| 95) Naphthalene                | 13.76 | 128  | 1951     | 1.40      | ug/l # | 75     |

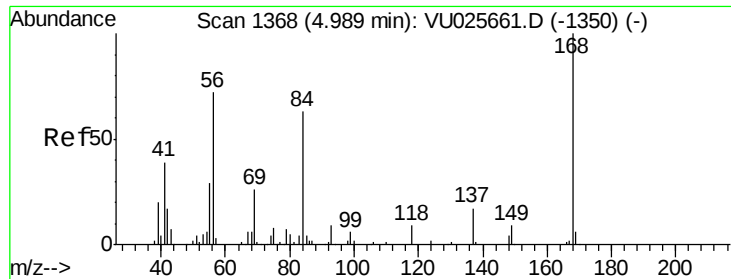
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
FM-1026

Quant Time: Aug 01 05:30:59 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 16:07:47 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

Instrument :

MSVOA\_U

ClientSampleId :

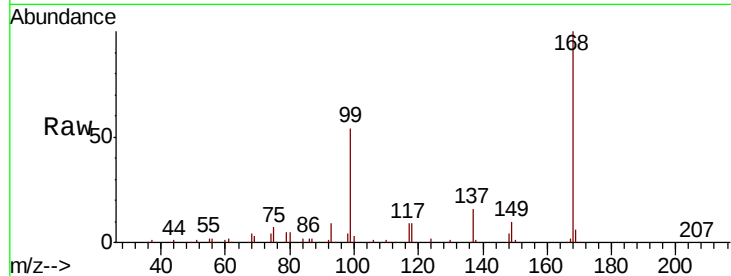
FM-1026

Tot Ion:168 Resp: 188492

Ion Ratio Lower Upper

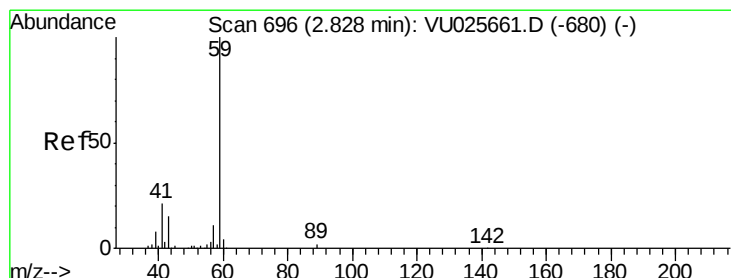
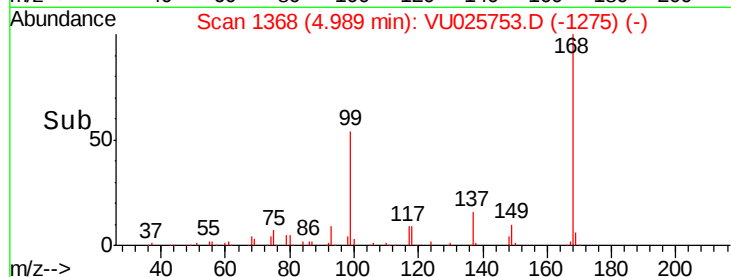
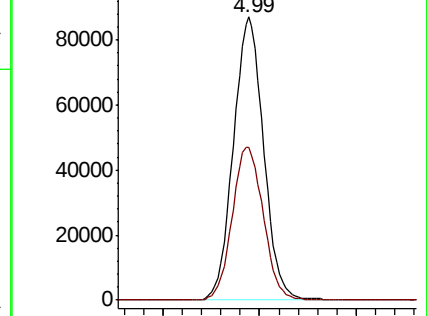
168 100

99 53.9 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)



#11

Tert butyl alcohol

Concen: 3.62 ug/l

RT: 2.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VU025753.D

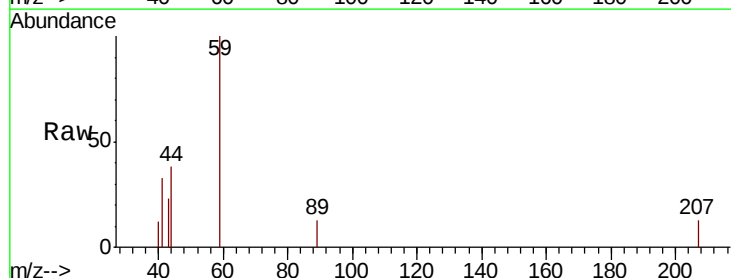
Acq: 31 Jul 2018 20:51

Tgt Ion: 59 Resp: 2326

Ion Ratio Lower Upper

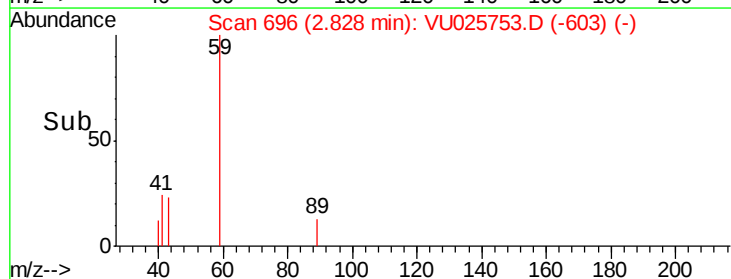
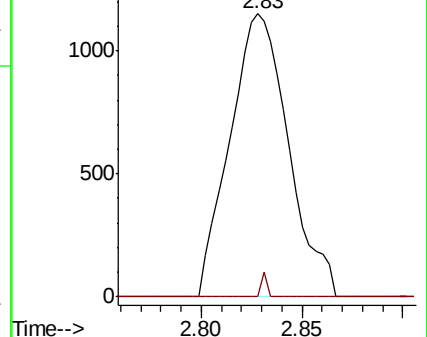
59 100

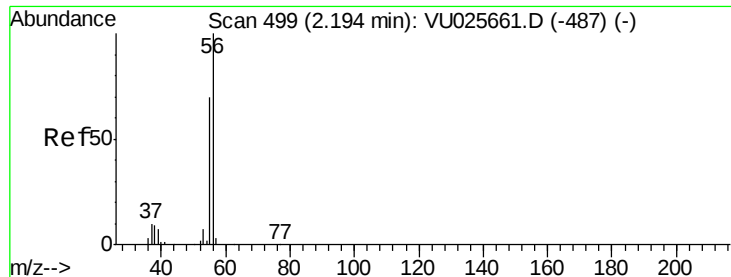
57 0.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU025661.D (-680) (-)

Ion 57.00 (56.70 to 57.70): VU025661.D (-680) (-)





#13

Acrolein

Concen: Below Cal

RT: 2.03 min Scan# 448

Delta R.T. -0.16 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

Instrument :

MSVOA\_U

ClientSampleId :

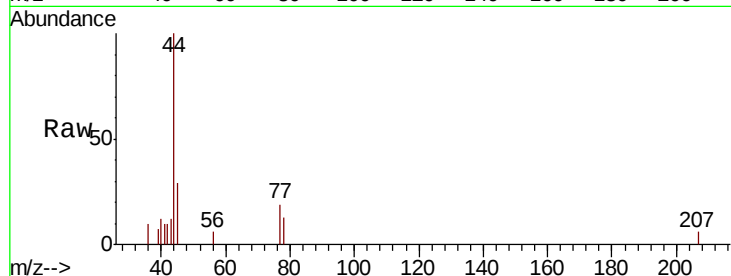
FM-1026

Tot Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 105.0 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.03

100

80

60

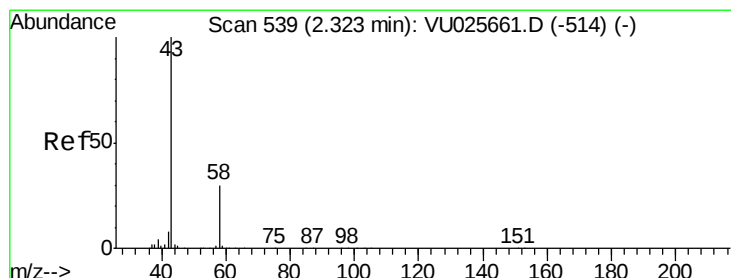
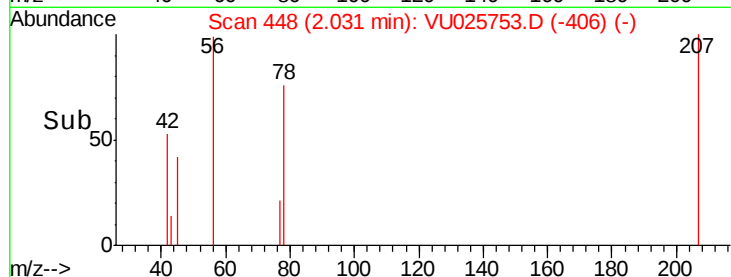
40

20

0

Time-->

2.02 2.02 2.03 2.04 2.04



#16

Acetone

Concen: 7.95 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025753.D

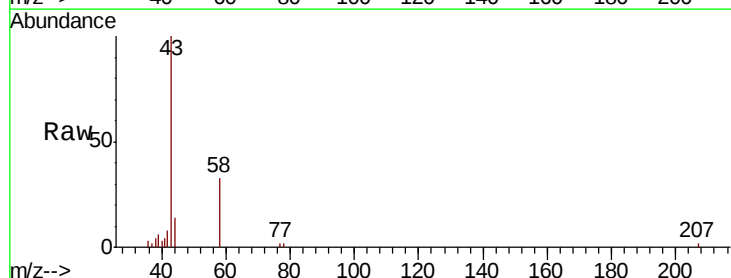
Acq: 31 Jul 2018 20:51

Tgt Ion: 43 Resp: 11384

Ion Ratio Lower Upper

43 100

58 33.2 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

6000

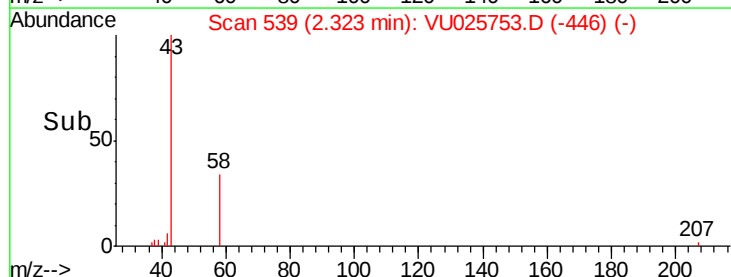
4000

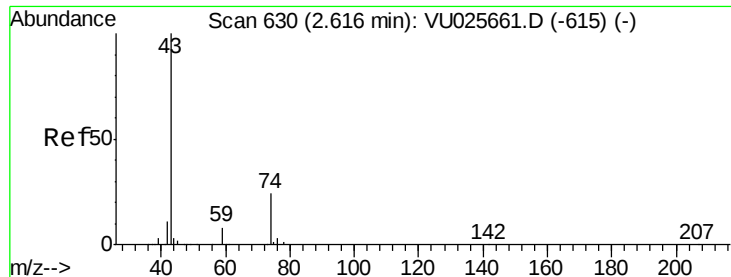
2000

0

Time-->

2.25 2.30 2.35 2.40

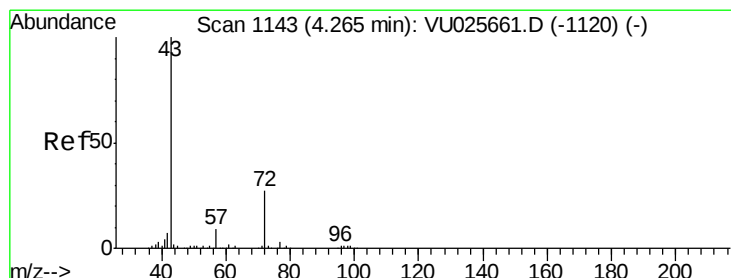
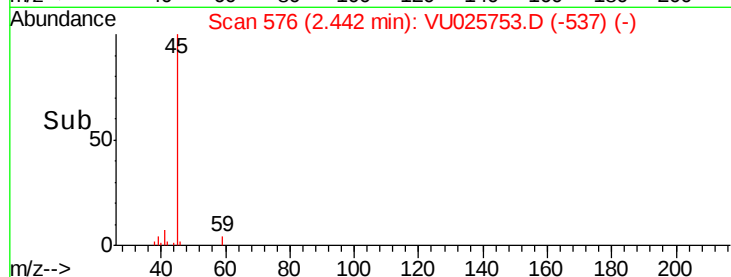
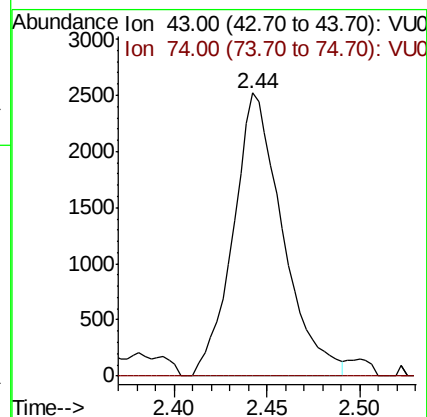
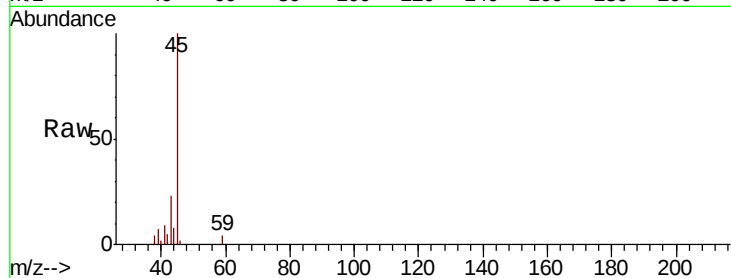




#18  
Methyl Acetate  
Concen: 1.36 ug/l  
RT: 2.44 min Scan# 576  
Delta R.T. -0.17 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

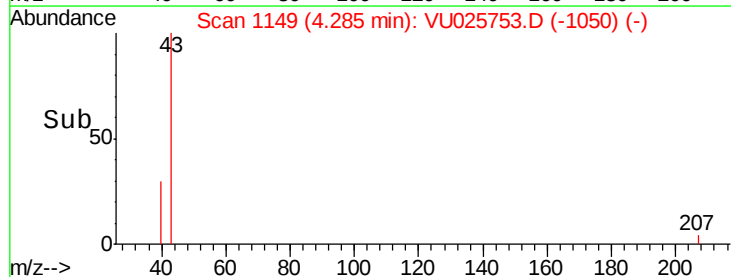
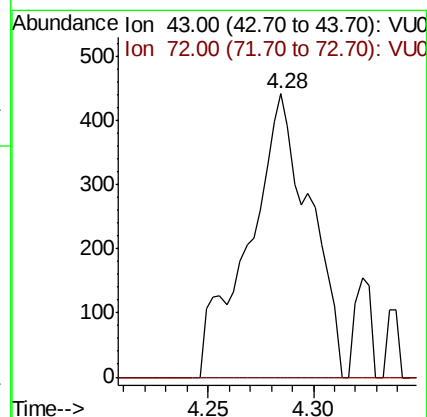
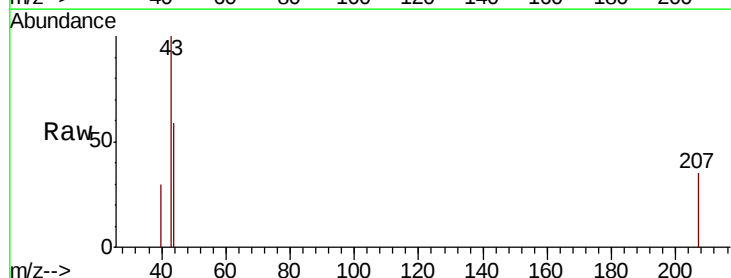
Instrument :  
MSVOA\_U  
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FM-1026

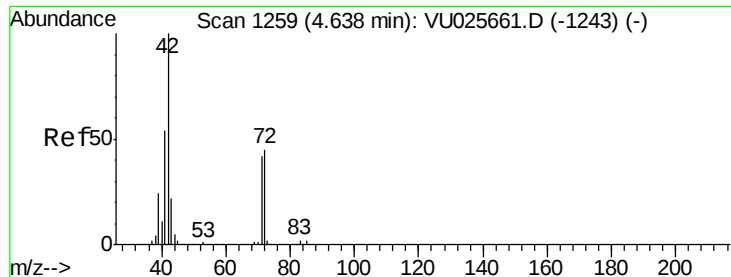
Tot Ion: 43 Resp: 4670  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.5 27.7#



#25  
2-Butanone  
Concen: 0.46 ug/l  
RT: 4.28 min Scan# 1149  
Delta R.T. 0.02 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

Tgt Ion: 43 Resp: 891  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.0 31.4#





#29

Tetrahydrofuran

Concen: 1.42 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

Instrument :

MSVOA\_U

ClientSampleId :

FM-1026

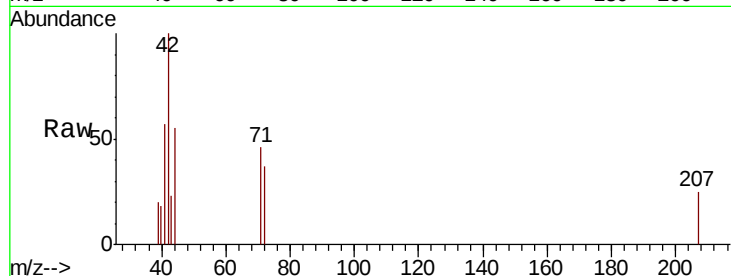
Tot Ion: 42 Resp: 1661

Ion Ratio Lower Upper

42 100

72 0.0 36.7 55.1#

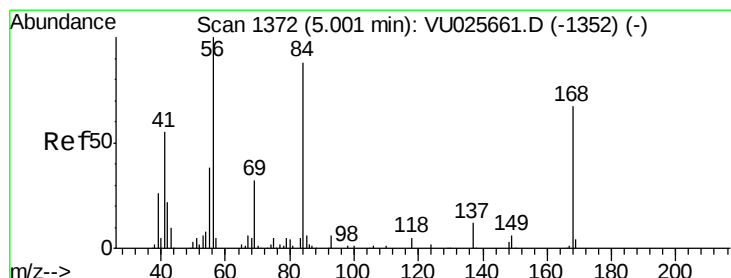
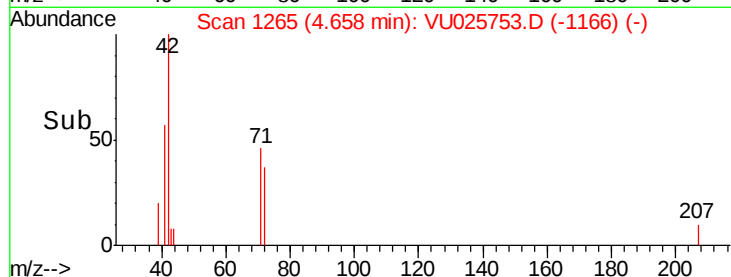
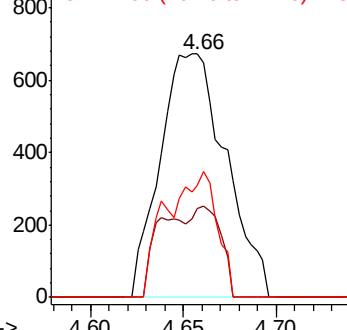
71 27.2 33.9 50.9#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

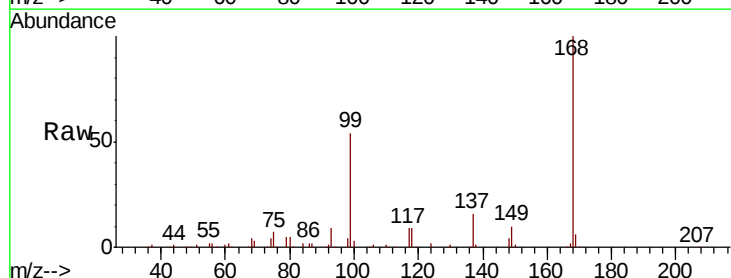
Tgt Ion: 56 Resp: 3936

Ion Ratio Lower Upper

56 100

69 150.0 26.8 40.2#

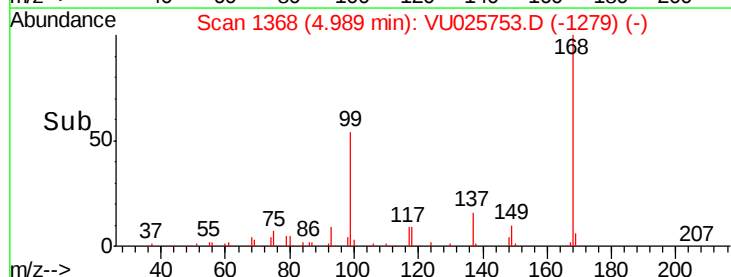
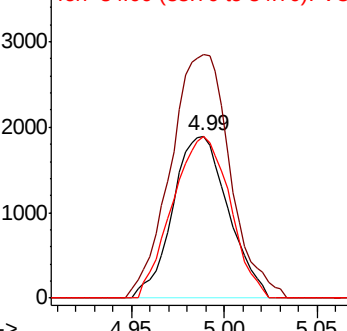
84 99.3 69.7 104.5

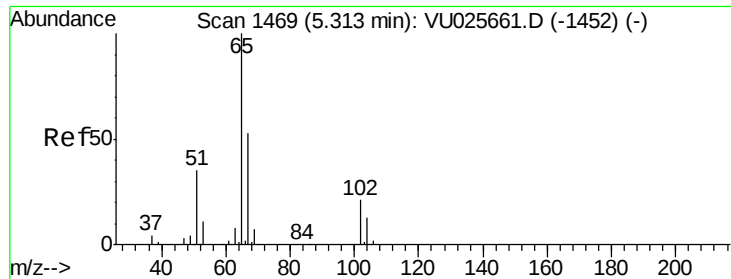


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0





#33

1,2-Dichloroethane-d4

Concen: 50.09 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

Instrument :

MSVOA\_U

ClientSampleId :

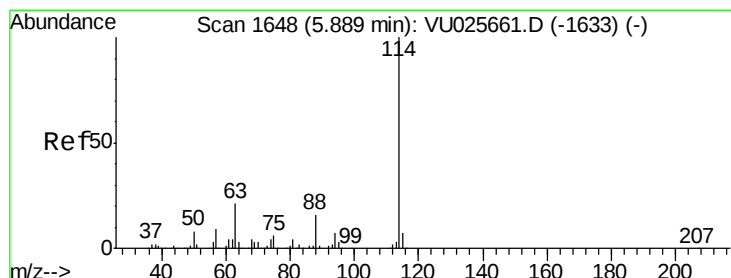
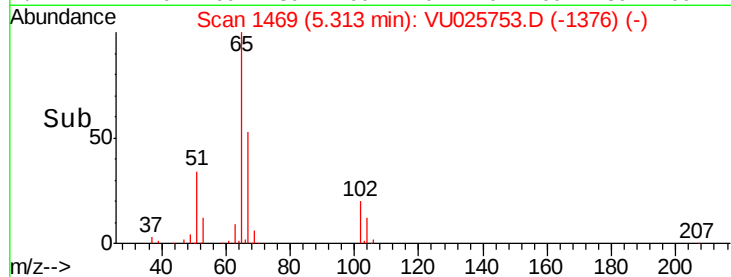
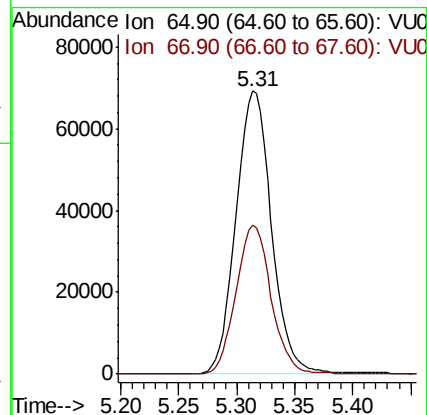
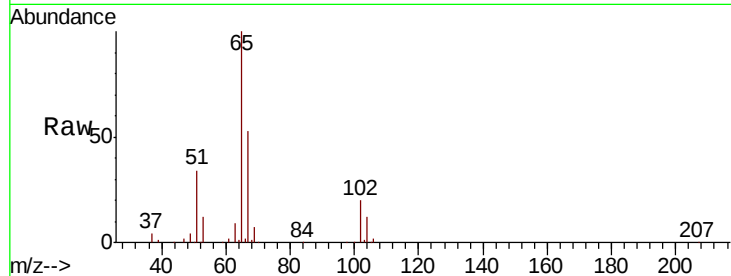
FM-1026

Tot Ion: 65 Resp: 147099

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.6



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

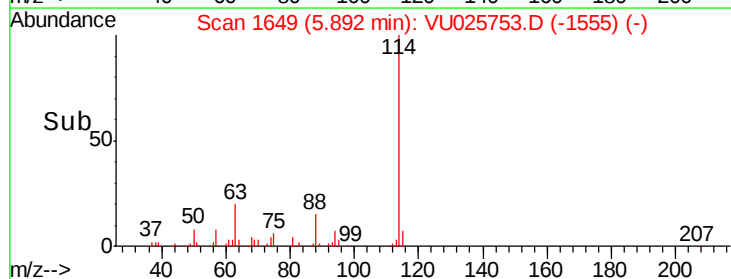
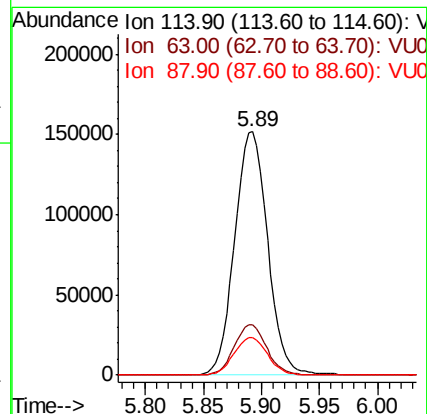
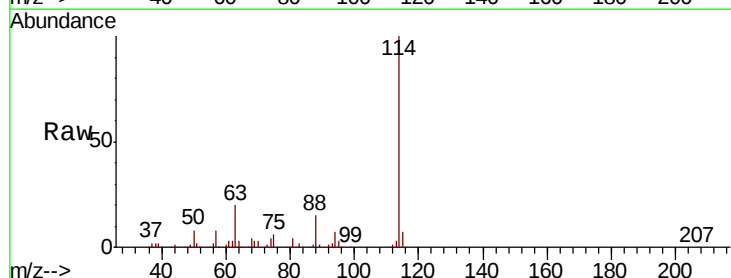
Tgt Ion: 114 Resp: 300188

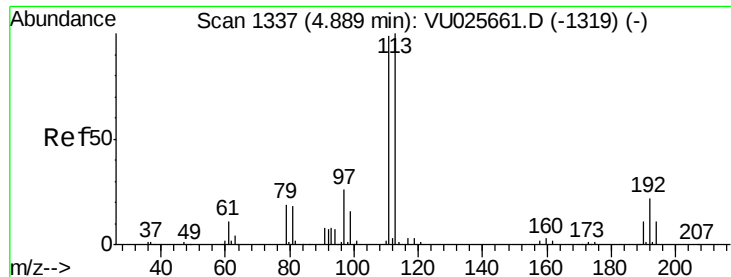
Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.6

88 15.3 0.0 32.4

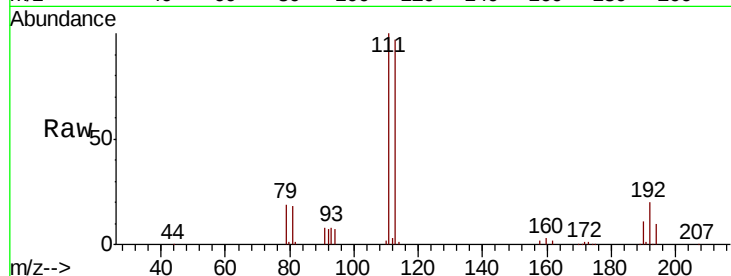




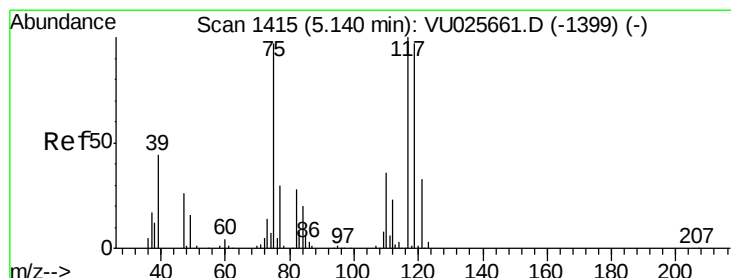
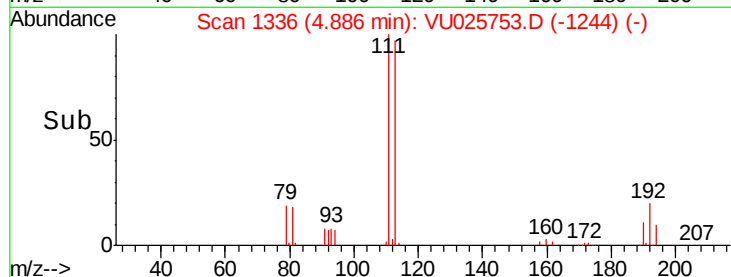
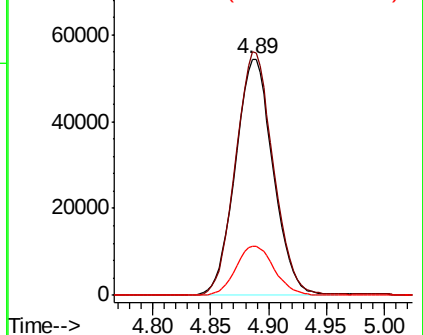
#35  
 Dibromofluoromethane  
 Concen: 47.23 ug/l  
 RT: 4.89 min Scan# 1336  
 Delta R.T. -0.00 min  
 Lab File: VU025753.D  
 Acq: 31 Jul 2018 20:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FM-1026

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 81.7  | 122.5 |
| 192     | 21.2  | 17.1  | 25.7  |

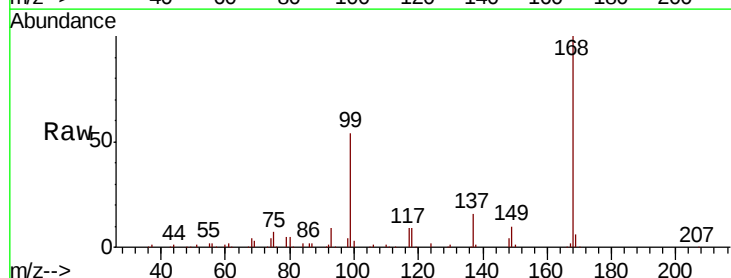


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

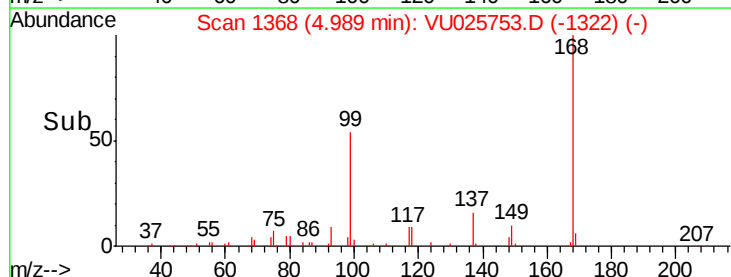
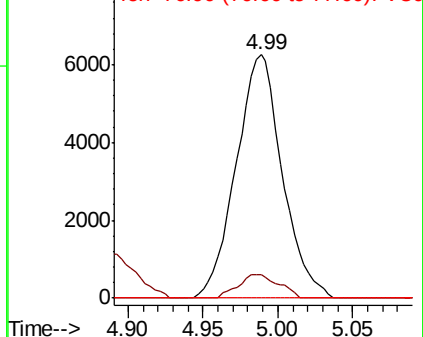


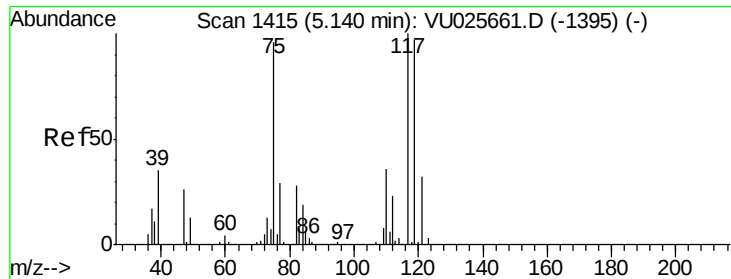
#36  
 1,1-Dichloropropene  
 Concen: 3.83 ug/l  
 RT: 4.99 min Scan# 1368  
 Delta R.T. -0.15 min  
 Lab File: VU025753.D  
 Acq: 31 Jul 2018 20:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 17.6  | 52.9# |
| 77      | 0.0   | 24.4  | 36.6# |



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

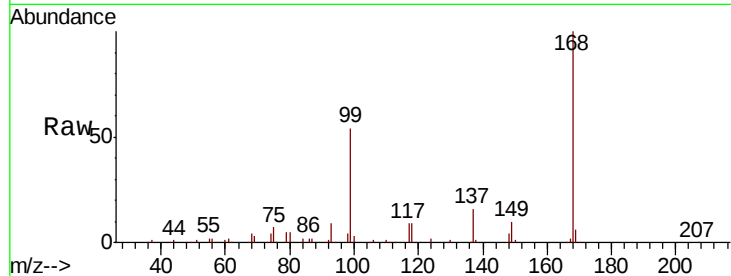




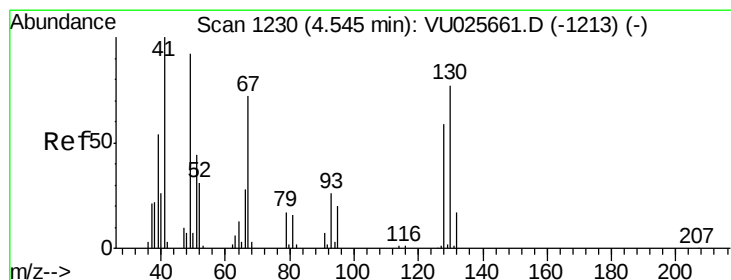
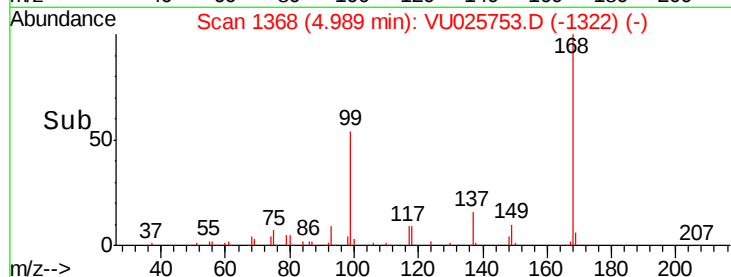
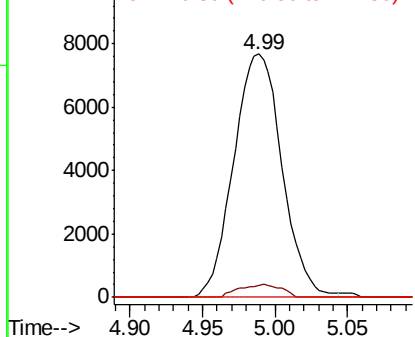
#38  
Carbon Tetrachloride  
Concen: 4.48 ug/l  
RT: 4.99 min Scan# 1368  
Delta R.T. -0.15 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
FM-1026

Tot Ion:117 Resp: 17785  
Ion Ratio Lower Upper  
117 100  
119 5.1 75.7 113.5#  
121 0.0 24.6 36.8#

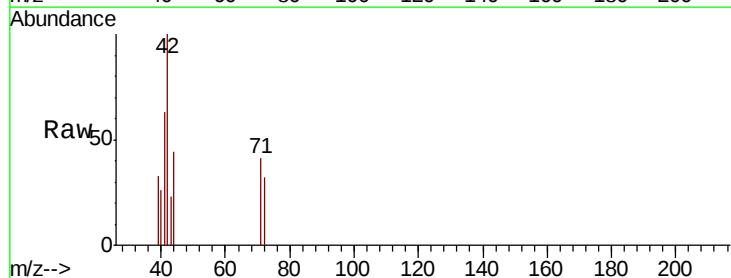


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

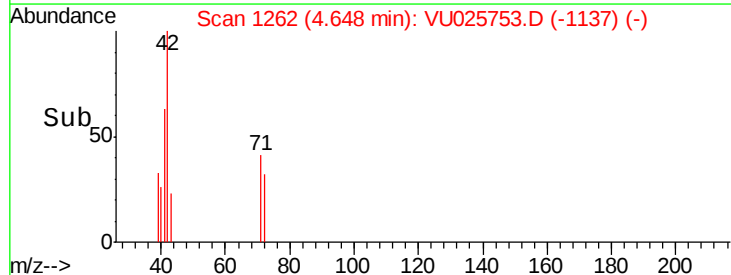
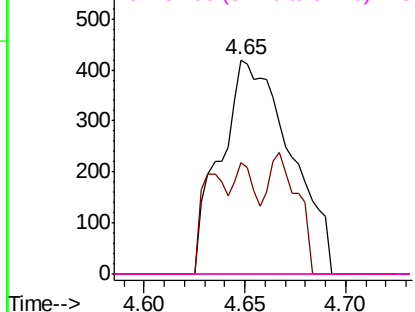


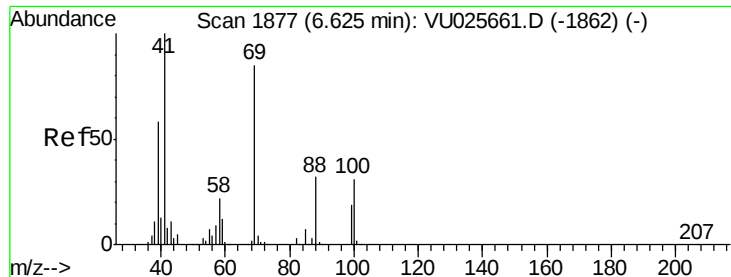
#41  
Methacrylonitrile  
Concen: 0.50 ug/l  
RT: 4.65 min Scan# 1262  
Delta R.T. 0.10 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

Tgt Ion: 41 Resp: 1011  
Ion Ratio Lower Upper  
41 100  
39 17.1 44.4 66.6#  
67 0.0 56.0 84.0#  
52 0.0 24.6 36.8#



Abundance Ion 41.00 (40.70 to 41.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0  
Ion 67.00 (66.70 to 67.70): VU0  
Ion 52.00 (51.70 to 52.70): VU0

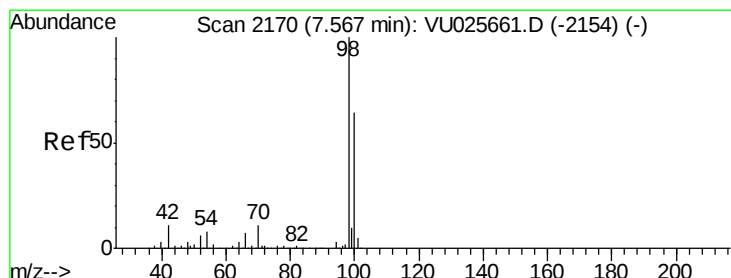
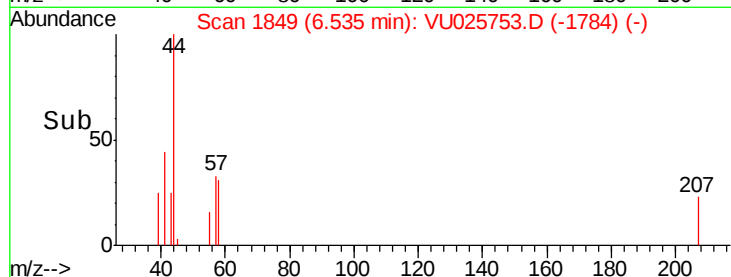
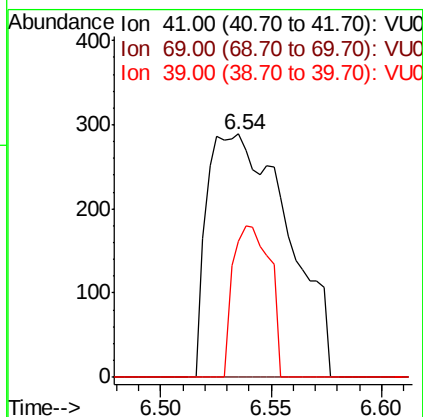
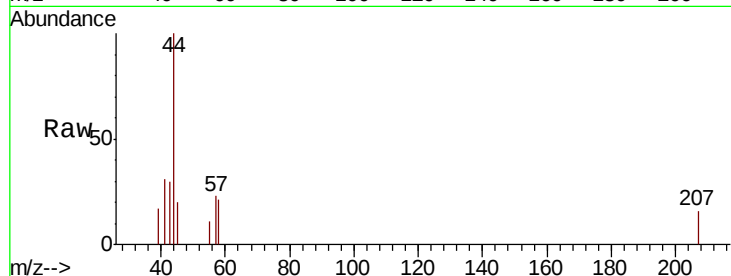




#48  
Methvl methacrylate  
Concen: 0.25 ug/l  
RT: 6.54 min Scan# 1849  
Delta R.T. -0.09 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

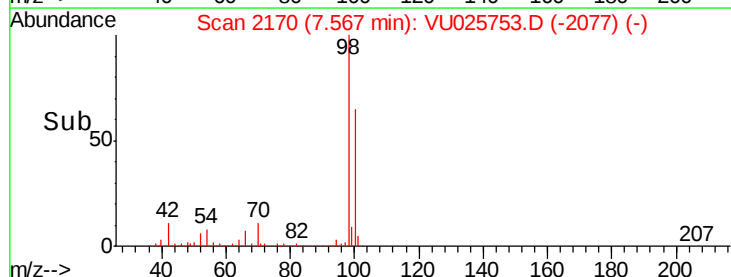
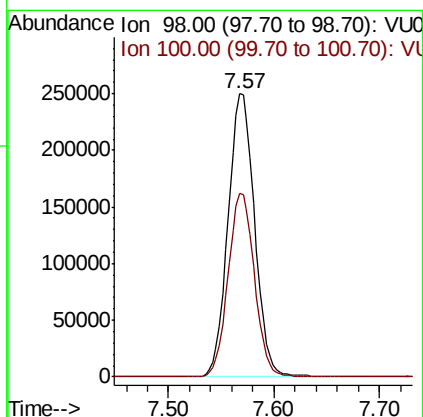
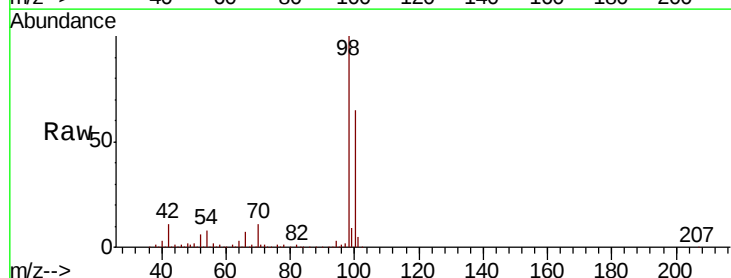
Instrument :  
MSVOA\_U  
ClientSampleId :  
FM-1026

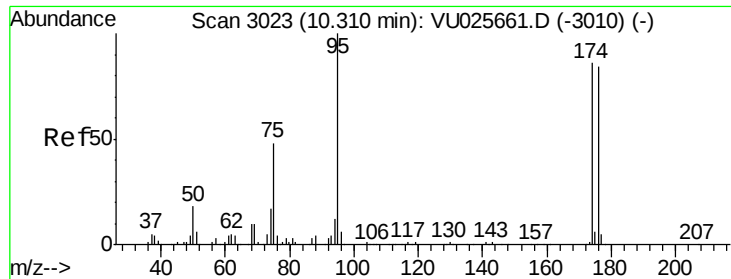
Tot Ion: 41 Resp: 733  
Ion Ratio Lower Upper  
41 100  
69 0.0 65.0 97.4#  
39 28.6 46.4 69.6#



#50  
Toluene-d8  
Concen: 47.68 ug/l  
RT: 7.57 min Scan# 2170  
Delta R.T. 0.00 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

Tgt Ion: 98 Resp: 435633  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.1 76.7

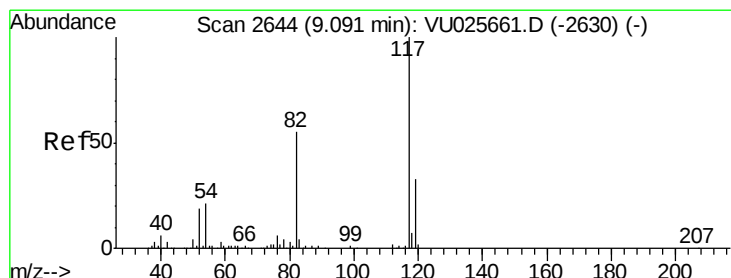
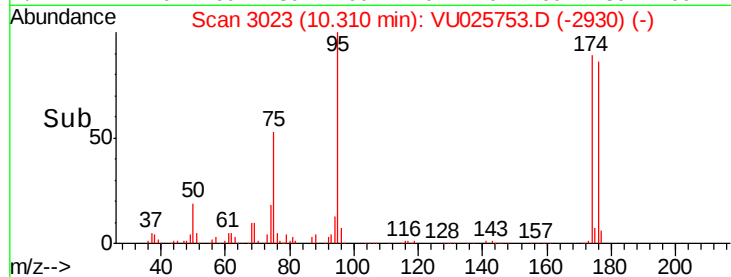
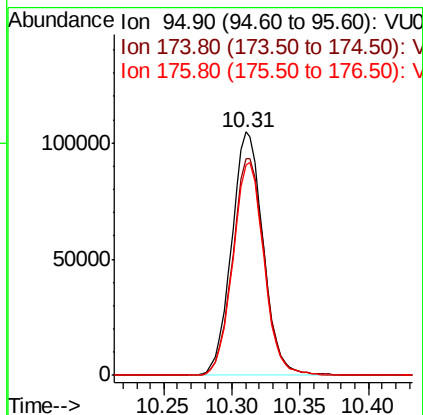
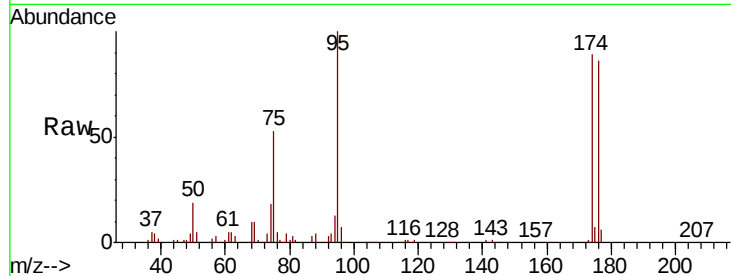




#62  
4-Bromofluorobenzene  
Concen: 47.40 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. 0.00 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

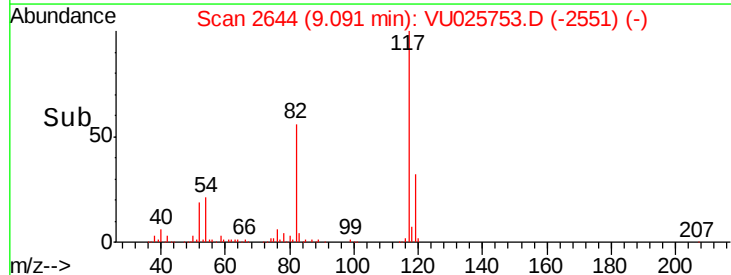
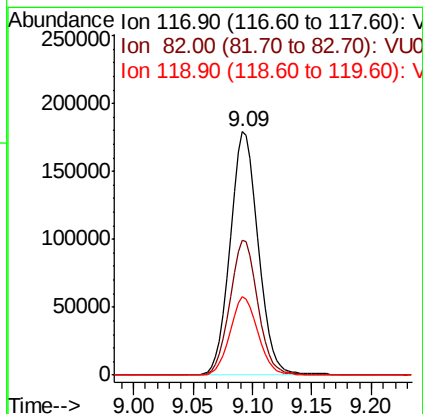
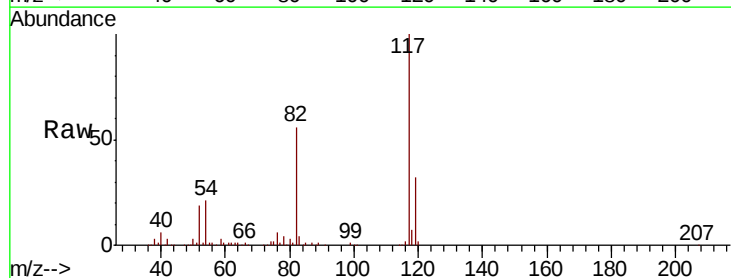
Instrument :  
MSVOA\_U  
ClientSampled :  
FM-1026

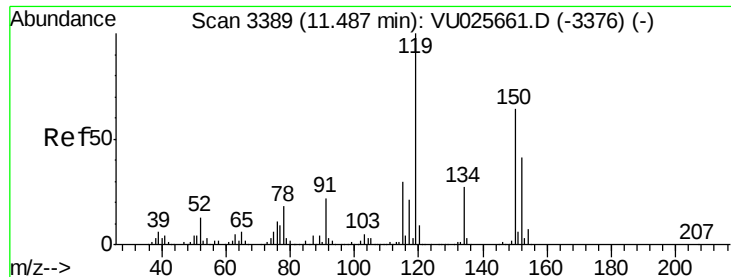
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 89.8  | 0.0   | 172.2 |
| 176     | 86.2  | 0.0   | 162.6 |



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VU025753.D  
Acq: 31 Jul 2018 20:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.6  | 46.0  | 69.0  |
| 119     | 32.0  | 26.0  | 39.0  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

Instrument :

MSVOA\_U

ClientSampleId :

FM-1026

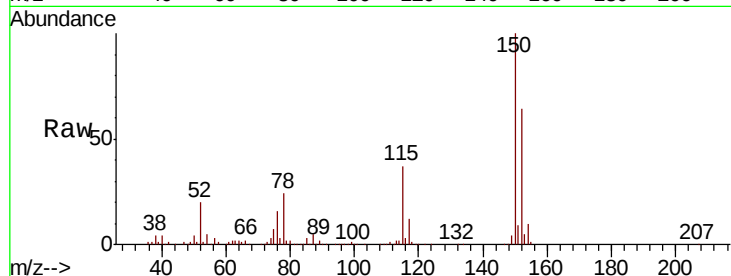
Tot Ion:152 Resp: 176976

Ion Ratio Lower Upper

152 100

115 58.1 40.1 120.3

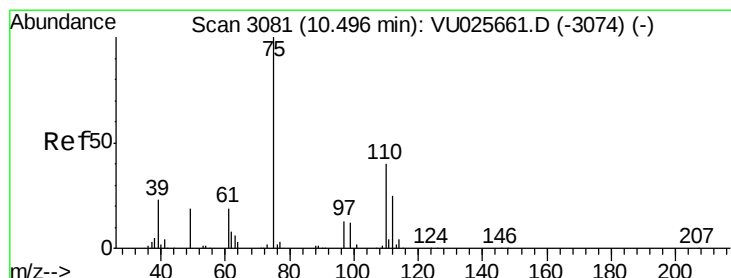
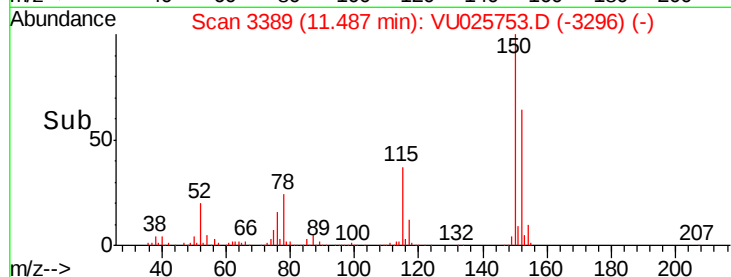
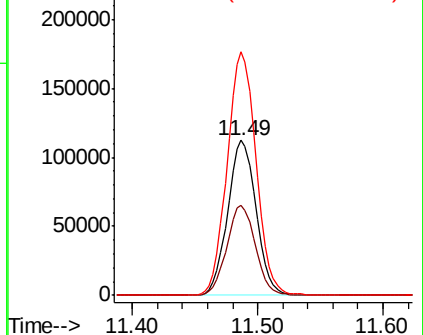
150 159.3 0.0 351.4



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: 22.12 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025753.D

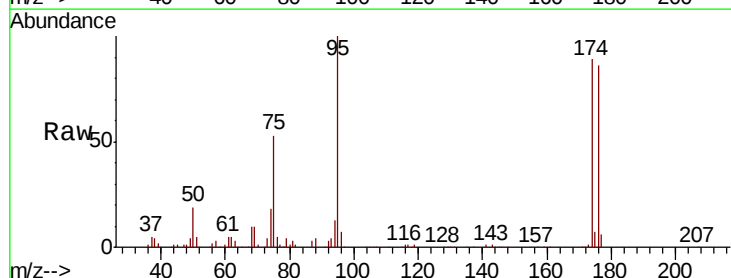
Acq: 31 Jul 2018 20:51

Tgt Ion: 75 Resp: 86263

Ion Ratio Lower Upper

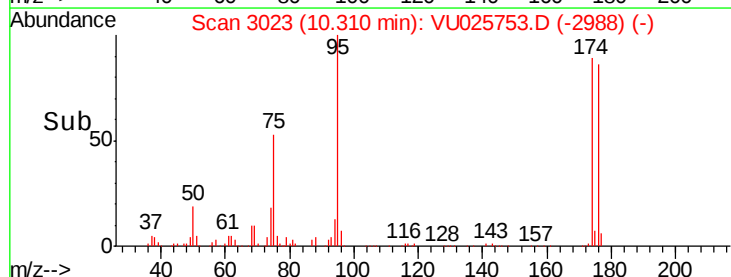
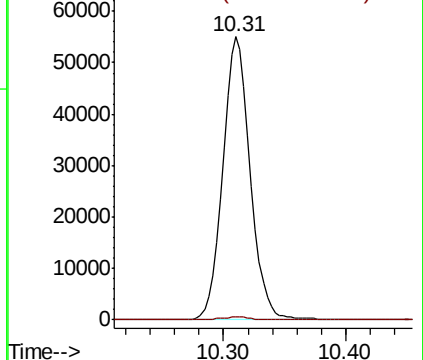
75 100

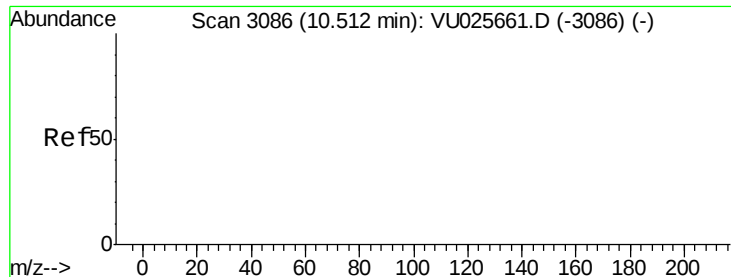
77 1.1 20.4 61.3#



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: 55.47 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

Instrument :

MSVOA\_U

ClientSampleId :

FM-1026

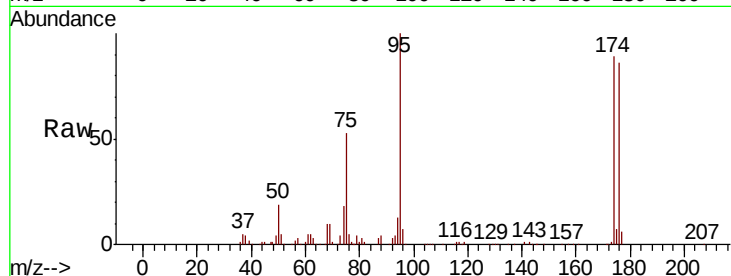
Tot Ion: 75 Resp: 86263

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

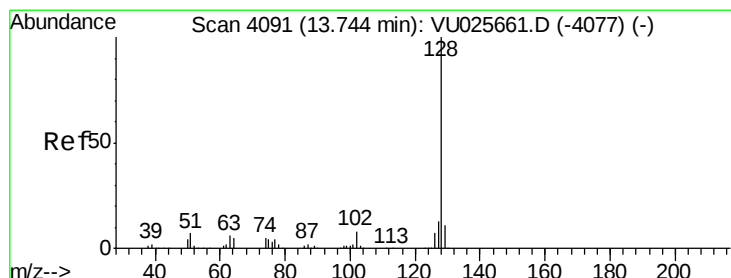
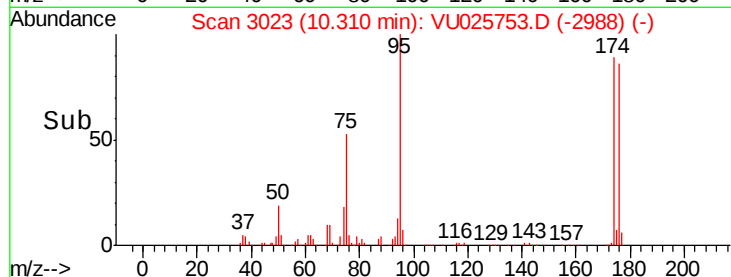
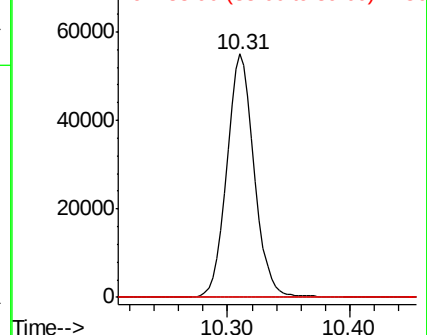
89 0.0 0.0 0.0



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: 1.40 ug/l

RT: 13.76 min Scan# 4096

Delta R.T. 0.02 min

Lab File: VU025753.D

Acq: 31 Jul 2018 20:51

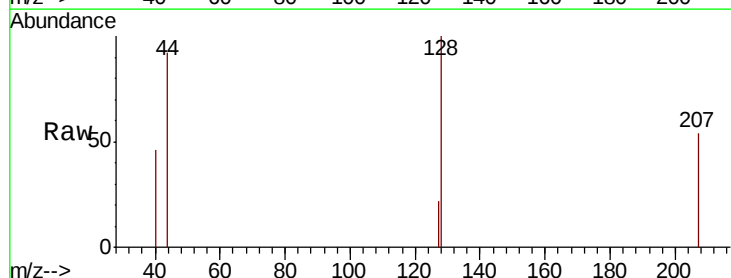
Tgt Ion:128 Resp: 1951

Ion Ratio Lower Upper

128 100

127 4.3 10.5 15.7#

129 0.0 8.3 12.5#



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

