

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\  
 Data File : VU025708.D  
 Acq On : 28 Jul 2018 07:18  
 Operator : MD/SY  
 Sample : J4208-05  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FL-0526

Quant Time: Jul 30 00:42:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 27 13:11:52 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 180840   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 286550   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 279461   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 170500   | 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   | 142982   | 50.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.48% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 117441   | 47.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.24%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 410040   | 47.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 163560   | 48.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.64%  |          |

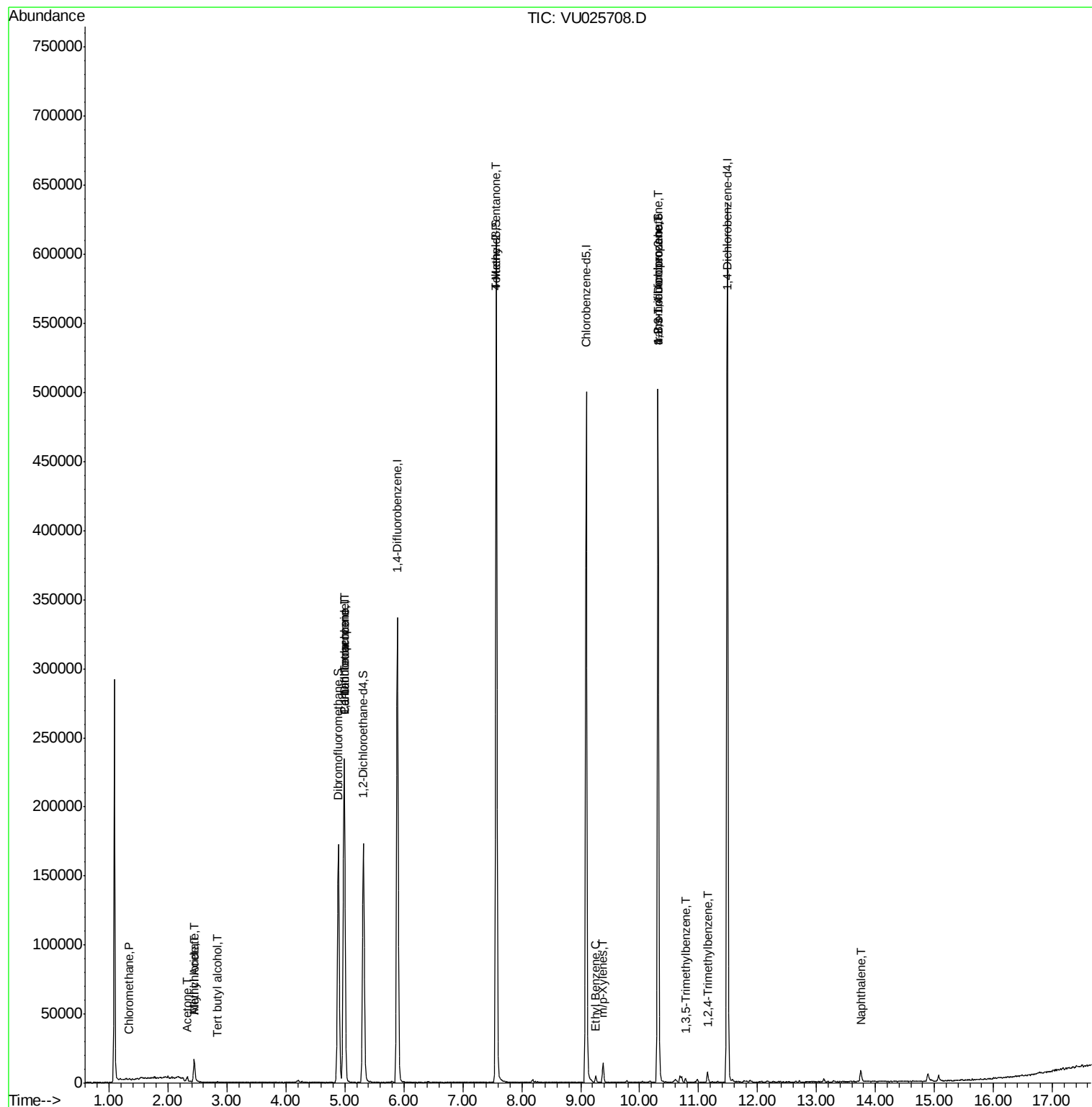
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 802      | 0.31      | ug/l   | 94     |
| 11) Tert butyl alcohol         | 2.84  | 59   | 229      | 0.37      | ug/l # | 73     |
| 13) Acrolein                   | 2.25  | 56   | 22       | Below Cal | #      | 1      |
| 14) Allyl chloride             | 2.44  | 41   | 1709     | 0.49      | ug/l # | 70     |
| 16) Acetone                    | 2.32  | 43   | 3646     | 2.65      | ug/l   | 96     |
| 18) Methyl Acetate             | 2.45  | 43   | 4246     | 1.28      | ug/l # | 52     |
| 31) Cyclohexane                | 4.99  | 56   | 3809     | Below Cal | #      | 24     |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 13781    | 4.12      | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 17677    | 4.66      | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43   | 1698     | 0.47      | ug/l # | 1      |
| 67) Ethyl Benzene              | 9.26  | 91   | 3995     | 0.33      | ug/l   | 100    |
| 68) m/p-Xylenes                | 9.38  | 106  | 4351     | 0.95      | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 83260    | 22.16     | ug/l # | 36     |
| 80) 1,3,5-Trimethylbenzene     | 10.78 | 105  | 2026     | 0.20      | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 83260    | 55.57     | ug/l # | 100    |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 4648     | 0.46      | ug/l   | 92     |
| 95) Naphthalene                | 13.75 | 128  | 8979     | 1.94      | ug/l   | 96     |

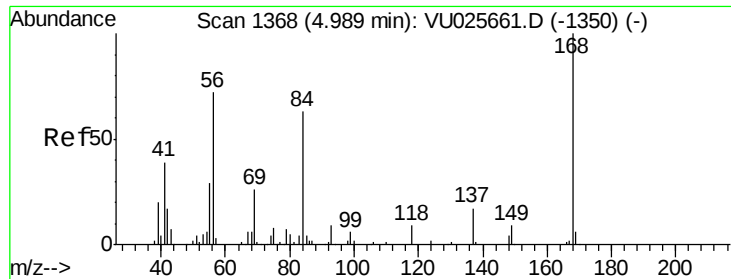
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072718\  
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Quant Time: Jul 30 00:42:05 2018  
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Quant Title : SW846 8260  
QLast Update : Fri Jul 27 13:11:52 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: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

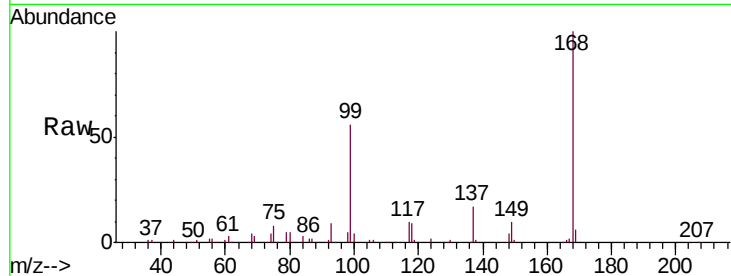
FL-0526

Tot Ion:168 Resp: 180840

Ion Ratio Lower Upper

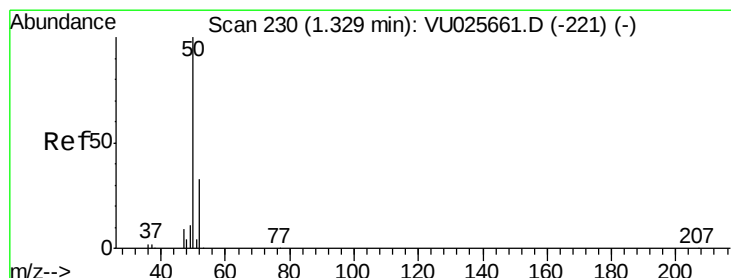
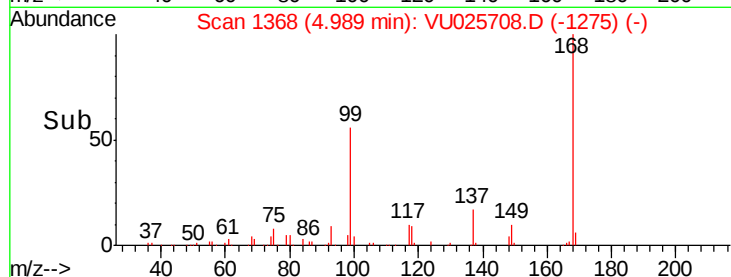
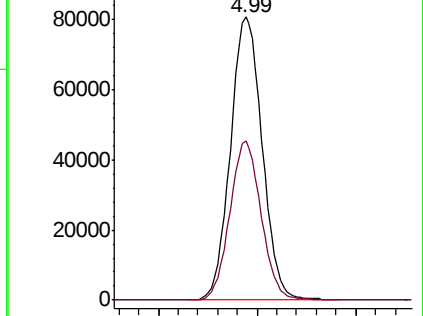
168 100

99 56.1 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) (-)



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025708.D

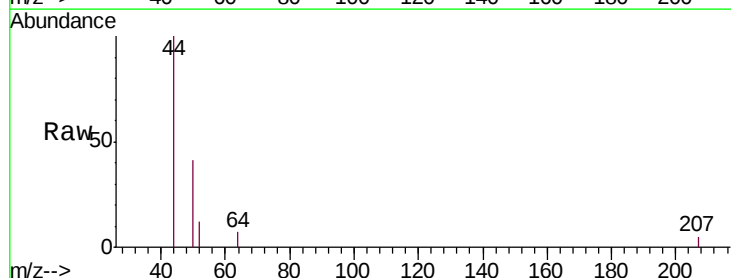
Acq: 28 Jul 2018 07:18

Tgt Ion: 50 Resp: 802

Ion Ratio Lower Upper

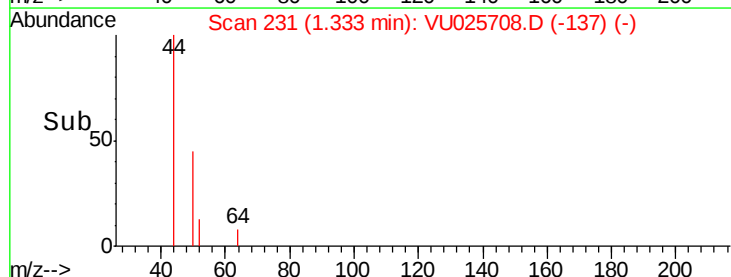
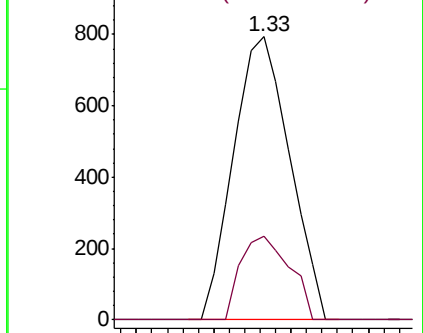
50 100

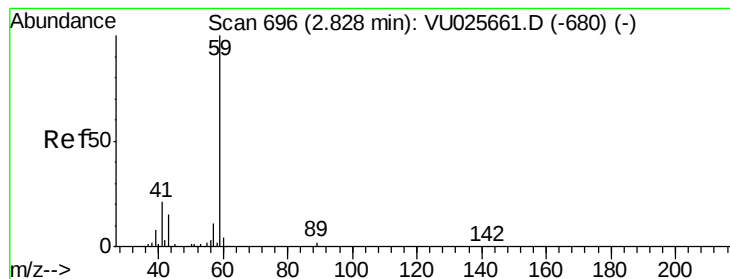
52 29.8 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025661.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025661.D (-221) (-)



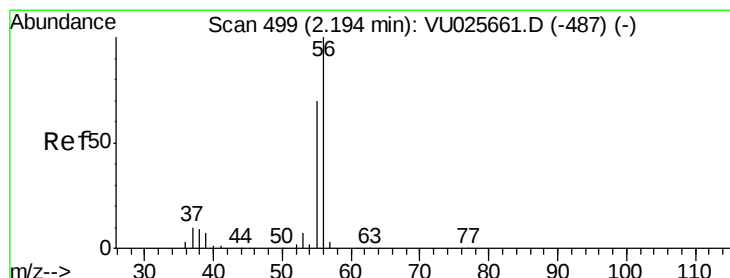
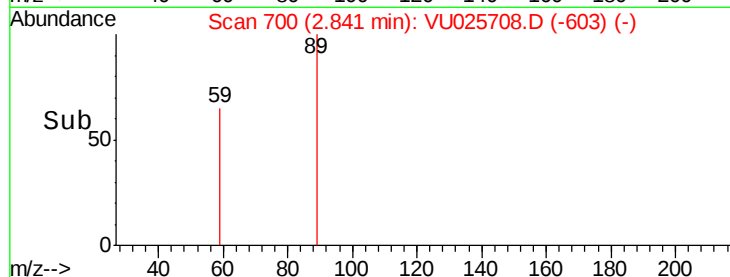
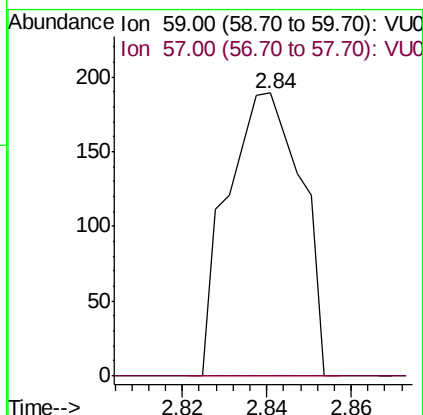
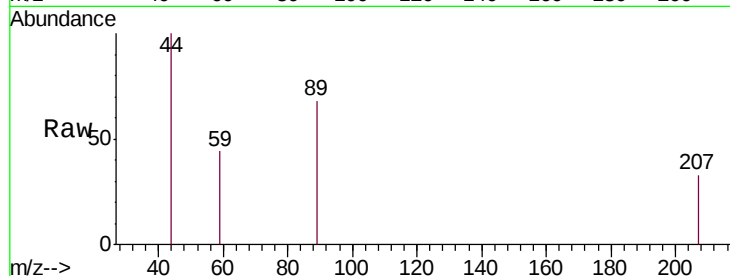


#11

Tert butyl alcohol  
 Concen: 0.37 ug/l  
 RT: 2.84 min Scan# 700  
 Delta R.T. 0.01 min  
 Lab File: VU025708.D  
 Acq: 28 Jul 2018 07:18

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 FL-0526

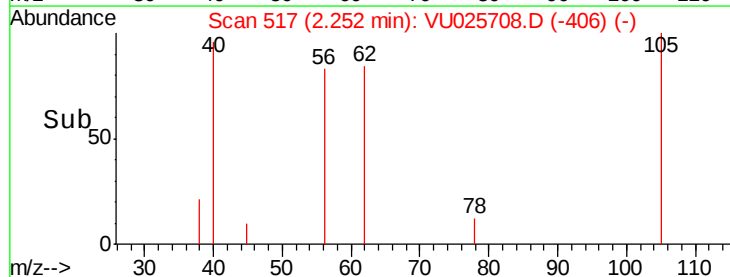
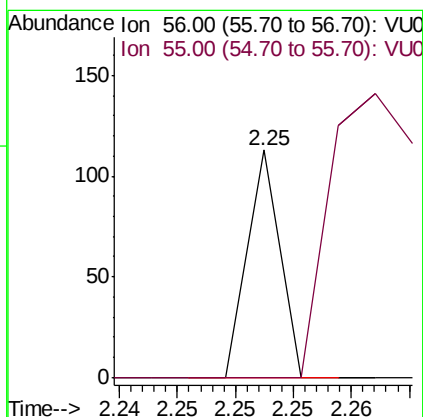
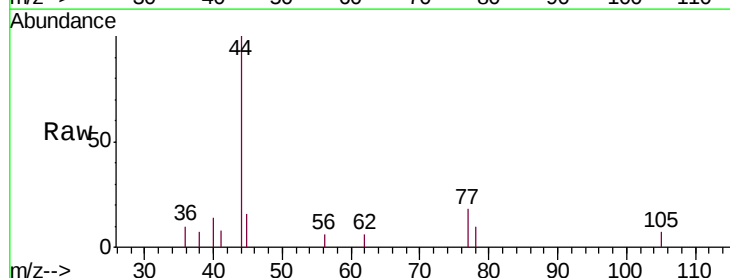
Tot Ion: 59 Resp: 229  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.2#

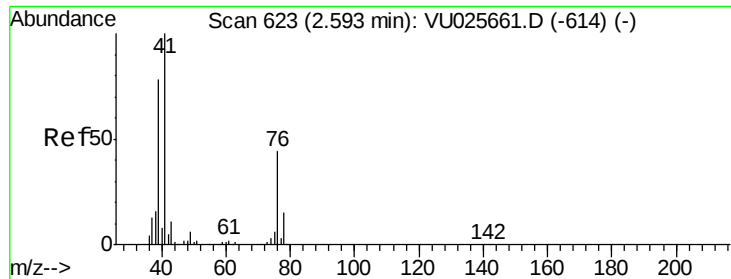


#13

Acrolein  
 Concen: Below Cal  
 RT: 2.25 min Scan# 517  
 Delta R.T. 0.06 min  
 Lab File: VU025708.D  
 Acq: 28 Jul 2018 07:18

Tgt Ion: 56 Resp: 22  
 Ion Ratio Lower Upper  
 56 100  
 55 336.4 57.2 85.8#

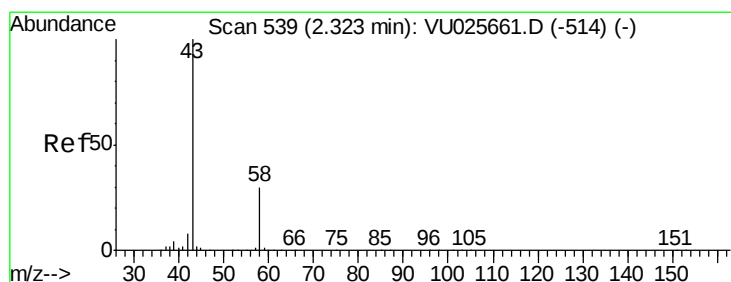
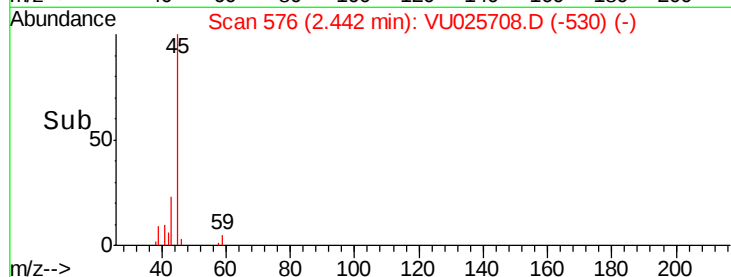
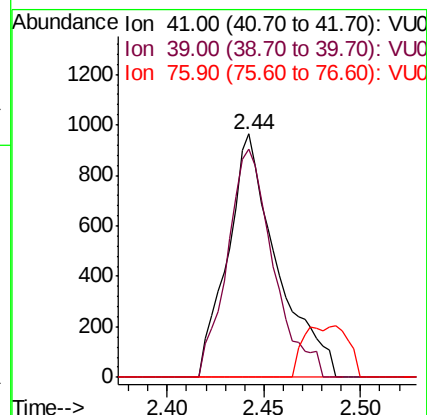
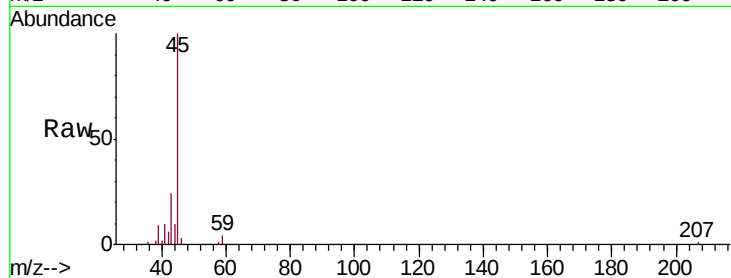




#14  
Allvl chloride  
Concen: 0.49 ug/l  
RT: 2.44 min Scan# 576  
Delta R.T. -0.15 min  
Lab File: VU025708.D  
Acq: 28 Jul 2018 07:18

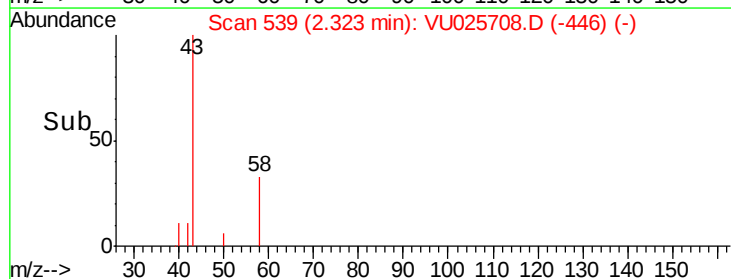
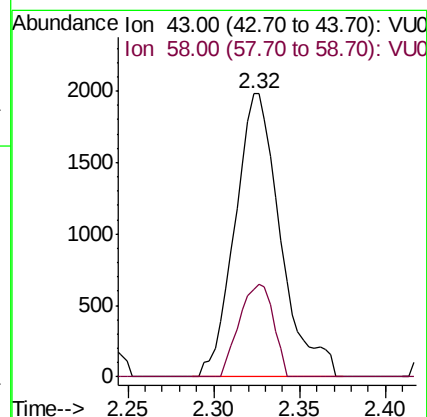
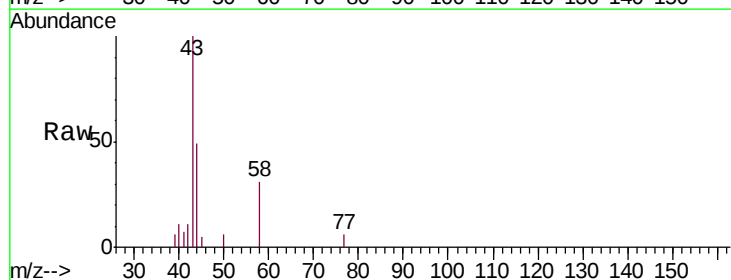
Instrument :  
MSVOA\_U  
ClientSampleId :  
FL-0526

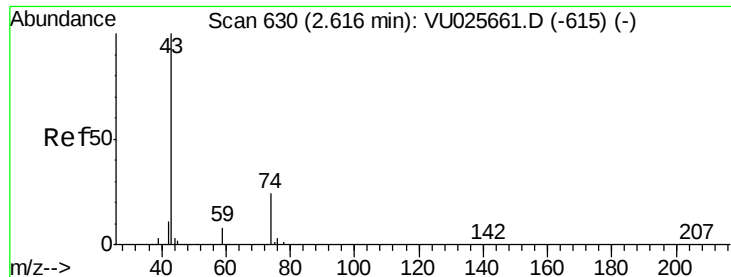
Tot Ion: 41 Resp: 1709  
Ion Ratio Lower Upper  
41 100  
39 87.0 60.6 91.0  
76 0.0 30.5 45.7#



#16  
Acetone  
Concen: 2.65 ug/l  
RT: 2.32 min Scan# 539  
Delta R.T. 0.00 min  
Lab File: VU025708.D  
Acq: 28 Jul 2018 07:18

Tgt Ion: 43 Resp: 3646  
Ion Ratio Lower Upper  
43 100  
58 31.1 23.1 34.7

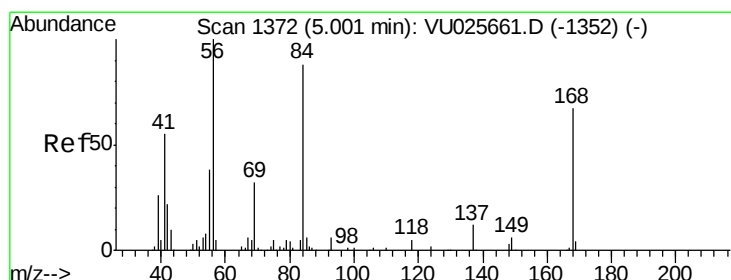
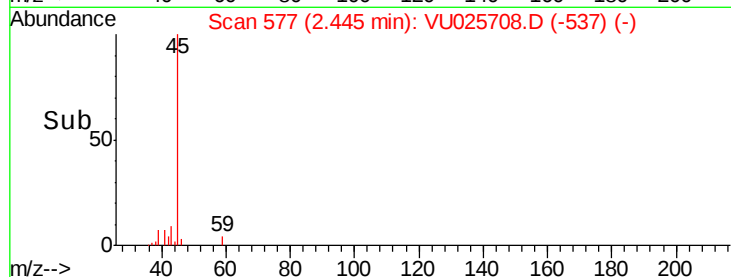
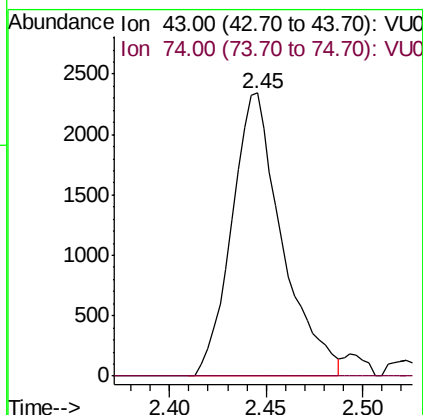
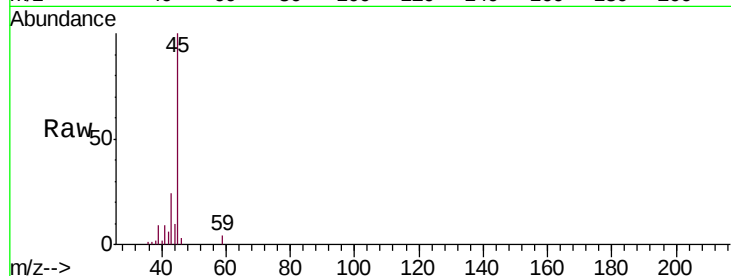




#18  
Methvl Acetate  
Concen: 1.28 ua/l  
RT: 2.45 min Scan# 577  
Delta R.T. -0.17 min  
Lab File: VU025708.D  
Acq: 28 Jul 2018 07:18

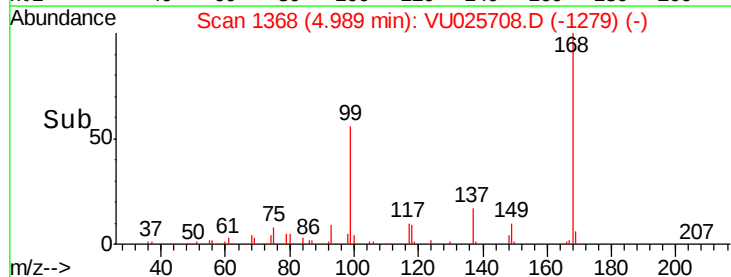
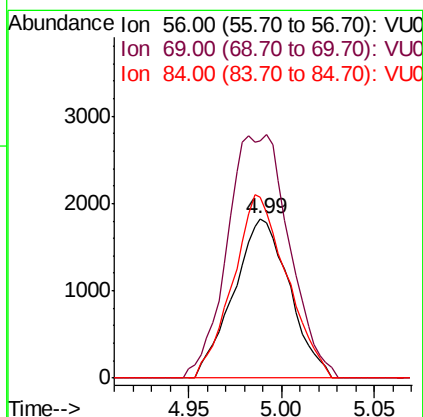
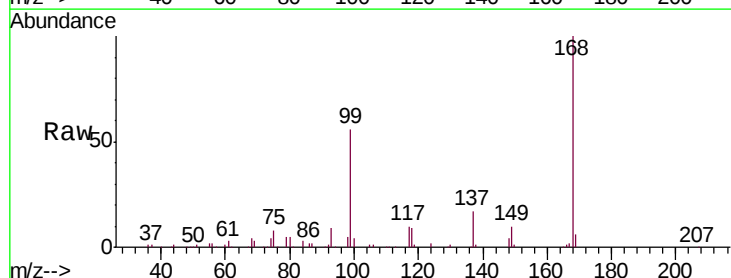
Instrument :  
MSVOA\_U  
ClientSampled :  
FL-0526

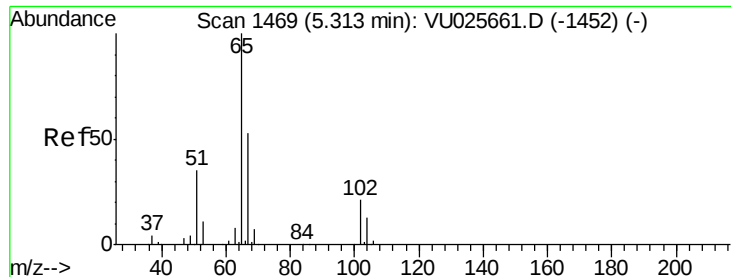
Tot Ion: 43 Resp: 4246  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.5 27.7#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.99 min Scan# 1368  
Delta R.T. -0.01 min  
Lab File: VU025708.D  
Acq: 28 Jul 2018 07:18

Tgt Ion: 56 Resp: 3809  
Ion Ratio Lower Upper  
56 100  
69 148.2 26.8 40.2#  
84 113.1 69.7 104.5#





#33

1,2-Dichloroethane-d4

Concen: 50.74 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

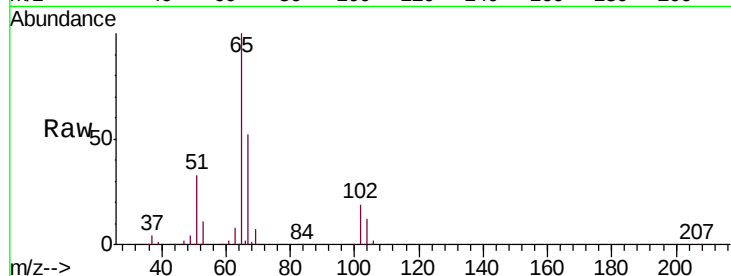
FL-0526

Tot Ion: 65 Resp: 142982

Ion Ratio Lower Upper

65 100

67 51.3 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025661.D (-1452) (-)

Ion 66.90 (66.60 to 67.60): VU025661.D (-1452) (-)

5.31

60000

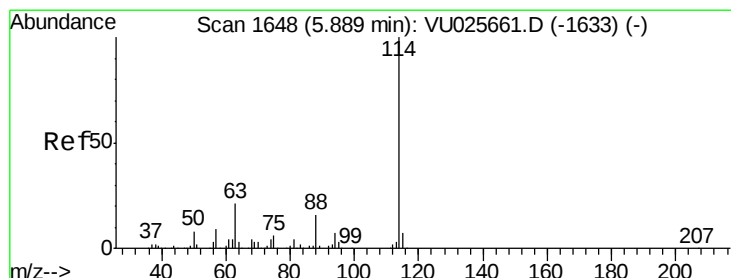
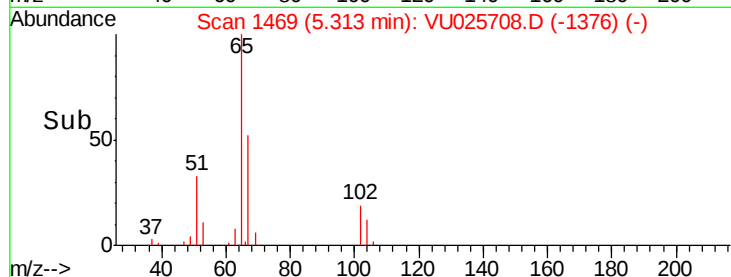
40000

20000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

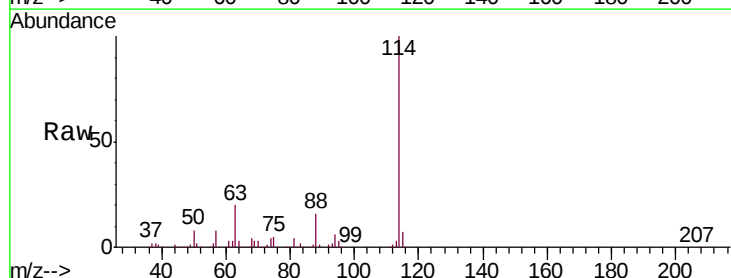
Tgt Ion: 114 Resp: 286550

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.6

88 15.8 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): VU025661.D (-1633) (-)

Ion 63.00 (62.70 to 63.70): VU025661.D (-1633) (-)

Ion 87.90 (87.60 to 88.60): VU025661.D (-1633) (-)

200000

150000

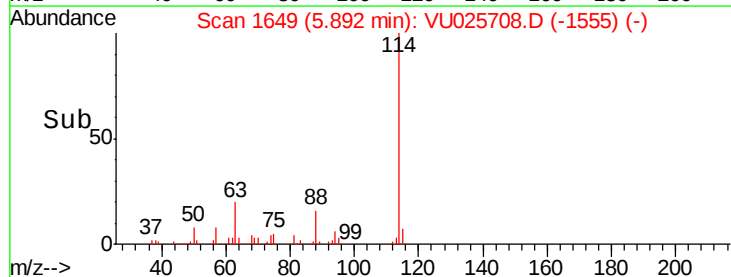
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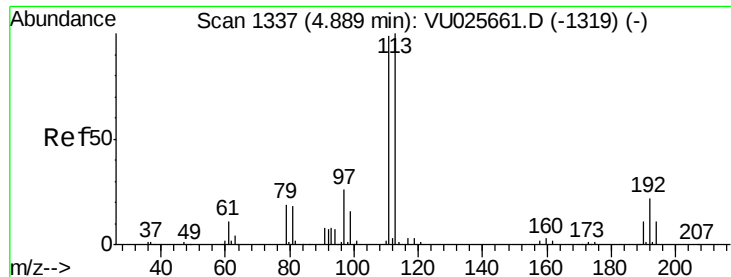
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0

Time-->

5.80 5.90 6.00

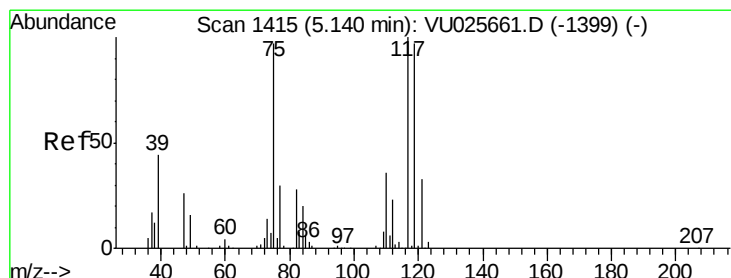
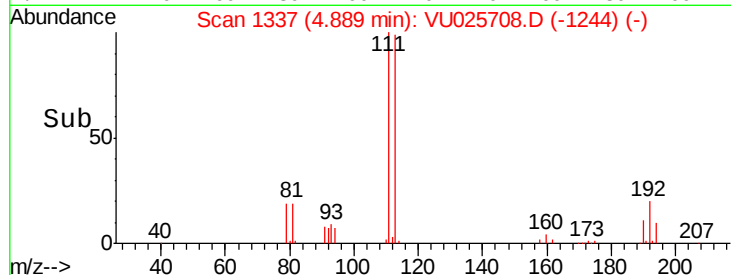
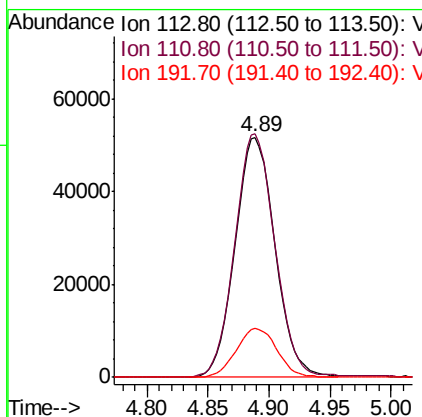
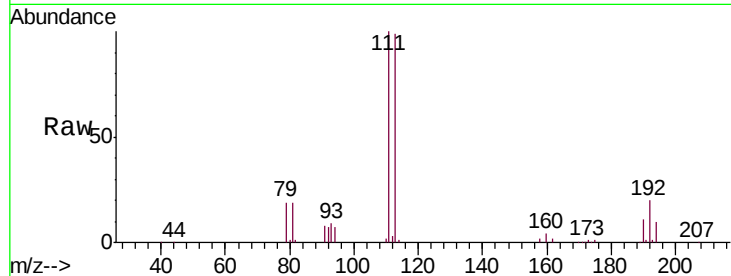




#35  
 Dibromofluoromethane  
 Concen: 47.12 ug/l  
 RT: 4.89 min Scan# 1337  
 Delta R.T. 0.00 min  
 Lab File: VU025708.D  
 Acq: 28 Jul 2018 07:18

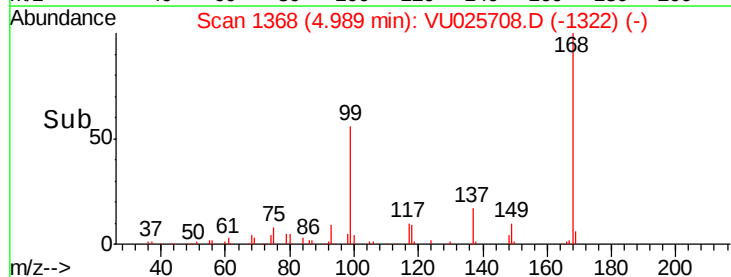
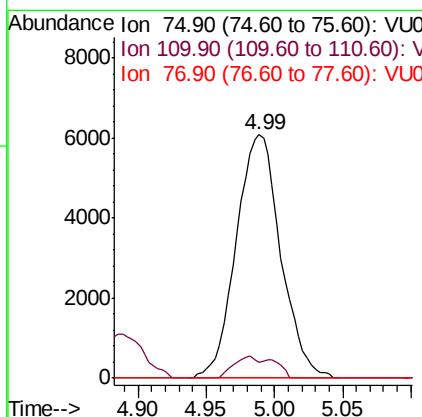
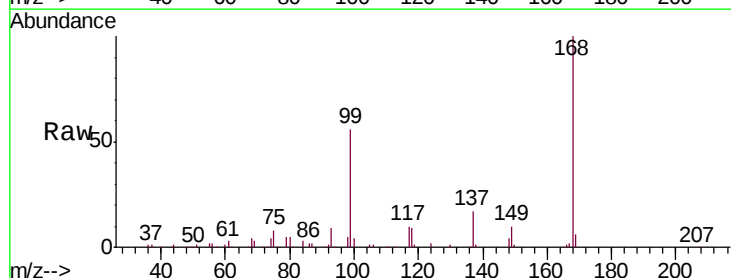
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FL-0526

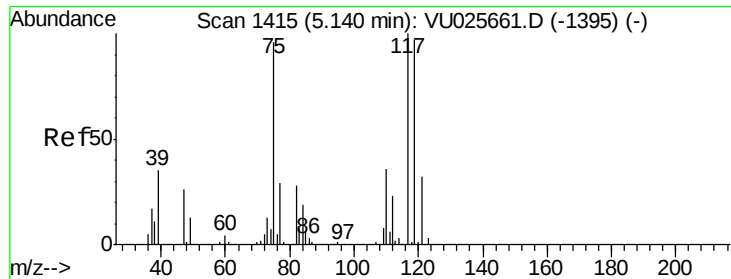
Tot Ion:113 Resp: 117441  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 81.7 122.5  
 192 20.9 17.1 25.7



#36  
 1,1-Dichloropropene  
 Concen: 4.12 ug/l  
 RT: 4.99 min Scan# 1368  
 Delta R.T. -0.15 min  
 Lab File: VU025708.D  
 Acq: 28 Jul 2018 07:18

Tgt Ion: 75 Resp: 13781  
 Ion Ratio Lower Upper  
 75 100  
 110 4.9 17.6 52.9#  
 77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.66 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

FL-0526

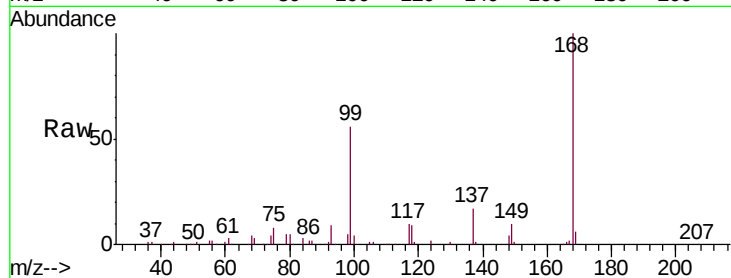
Tot Ion:117 Resp: 17677

Ion Ratio Lower Upper

117 100

119 6.7 75.7 113.5#

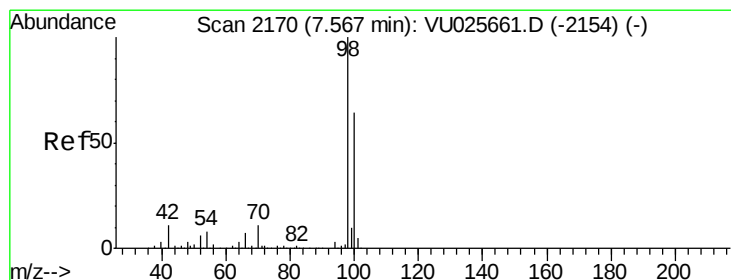
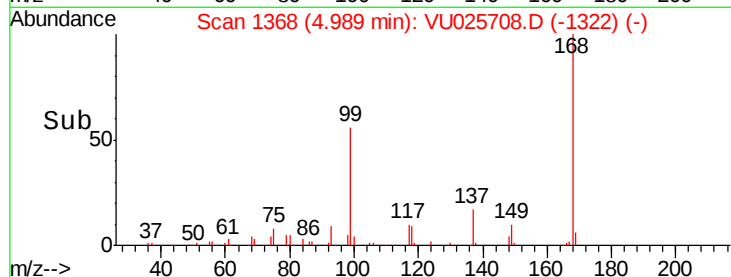
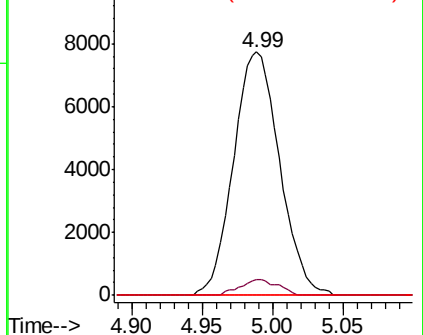
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 47.02 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025708.D

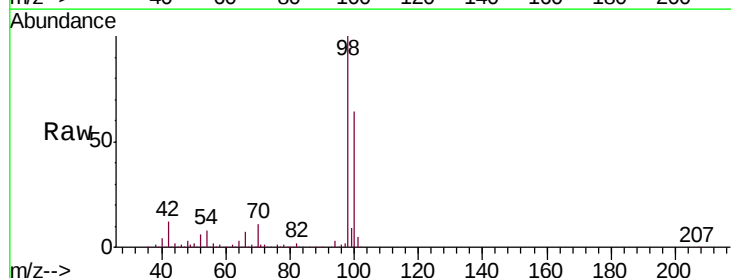
Acq: 28 Jul 2018 07:18

Tgt Ion: 98 Resp: 410040

Ion Ratio Lower Upper

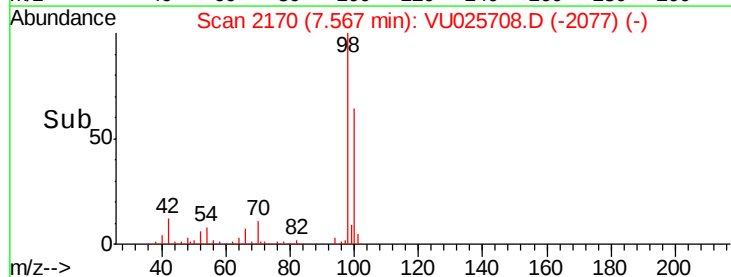
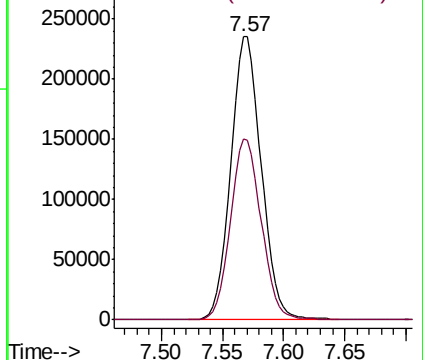
98 100

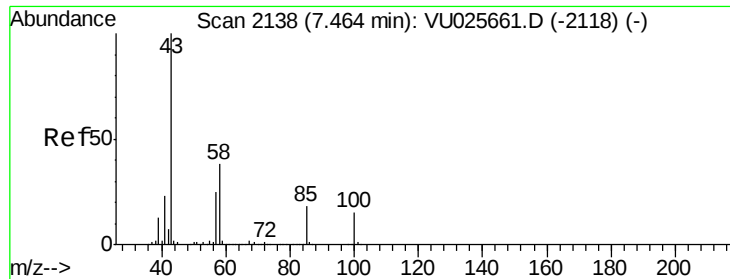
100 64.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.47 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.10 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

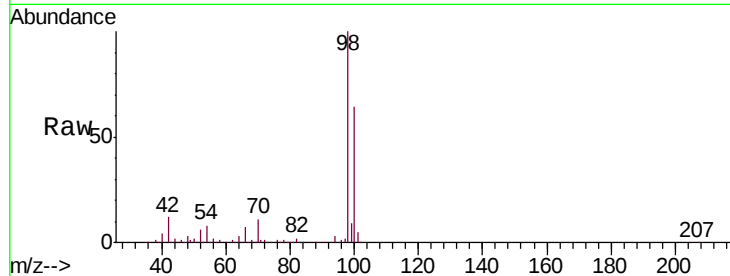
FL-0526

Tot Ion: 43 Resp: 1698

Ion Ratio Lower Upper

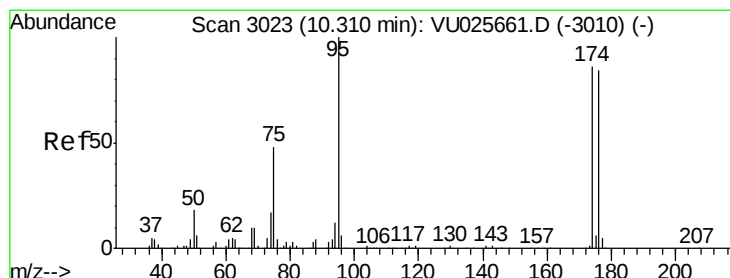
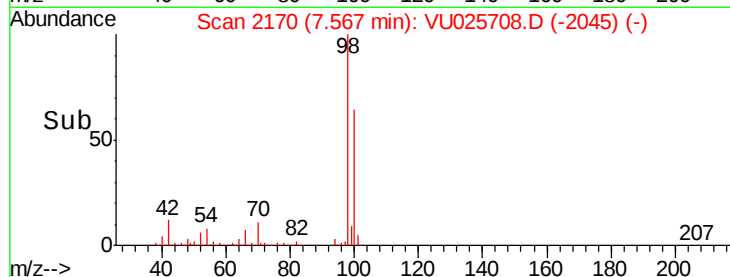
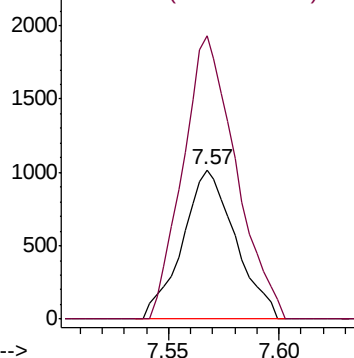
43 100

58 189.6 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 48.32 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

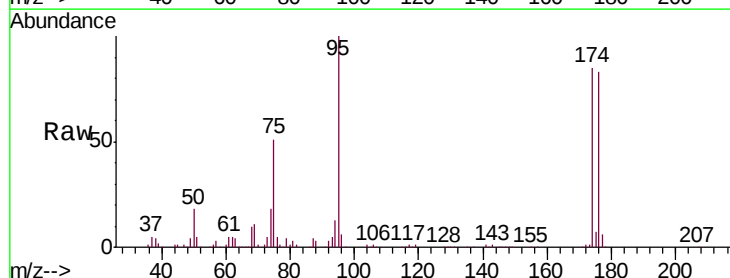
Tgt Ion: 95 Resp: 163560

Ion Ratio Lower Upper

95 100

174 86.1 0.0 172.2

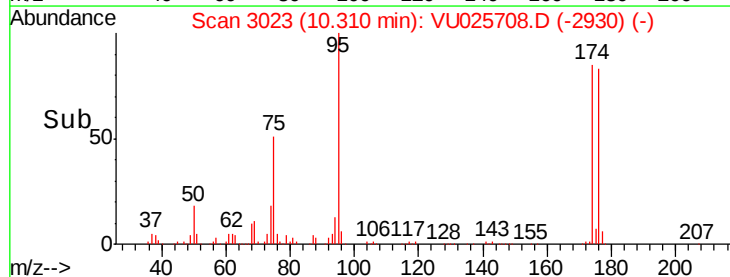
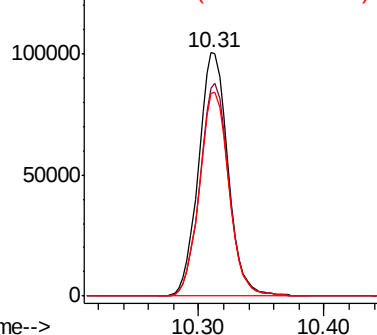
176 83.8 0.0 162.6

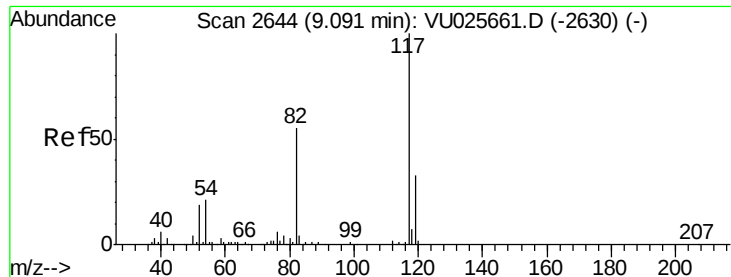


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

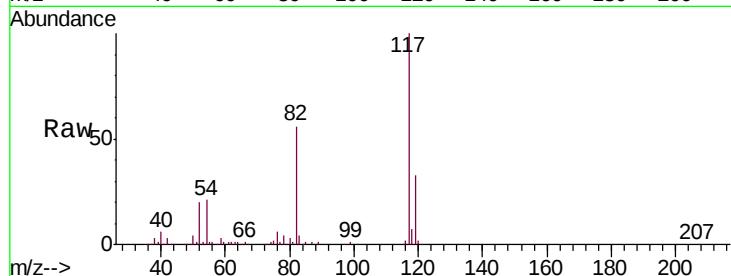




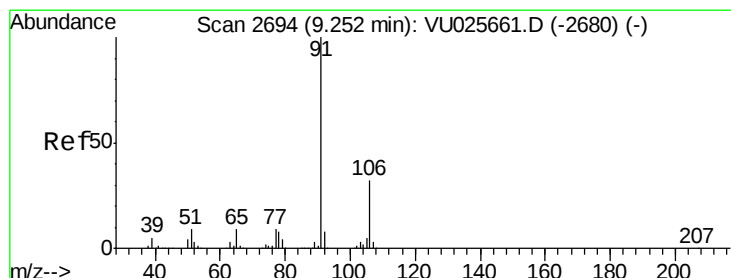
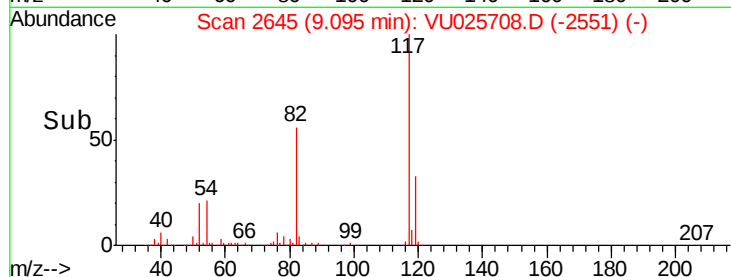
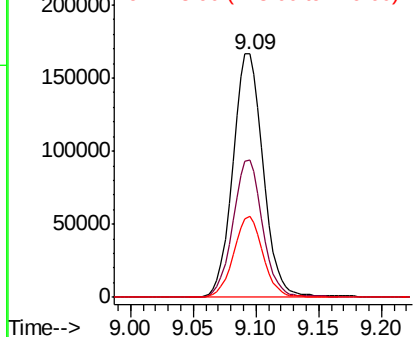
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU025708.D  
Acq: 28 Jul 2018 07:18

Instrument :  
MSVOA\_U  
ClientSampleId :  
FL-0526

Tot Ion:117 Resp: 279461  
Ion Ratio Lower Upper  
117 100  
82 56.3 46.0 69.0  
119 33.2 26.0 39.0

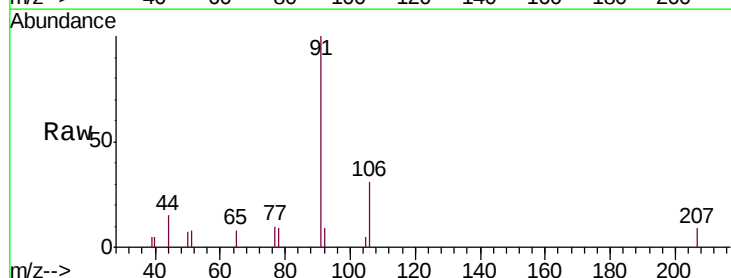


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

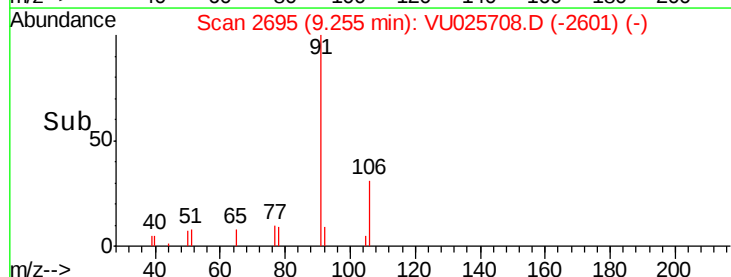
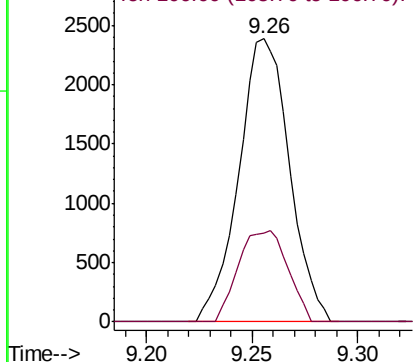


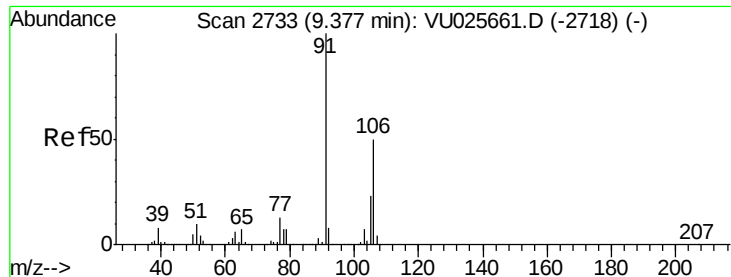
#67  
Ethyl Benzene  
Concen: 0.33 ug/l  
RT: 9.26 min Scan# 2695  
Delta R.T. 0.00 min  
Lab File: VU025708.D  
Acq: 28 Jul 2018 07:18

Tgt Ion: 91 Resp: 3995  
Ion Ratio Lower Upper  
91 100  
106 31.5 25.3 37.9



Abundance Ion 91.00 (90.70 to 91.70): VU0  
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xvlenes

Concen: 0.95 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

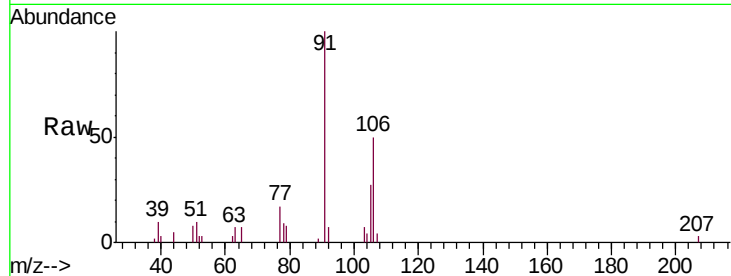
FL-0526

Tot Ion:106 Resp: 4351

Ion Ratio Lower Upper

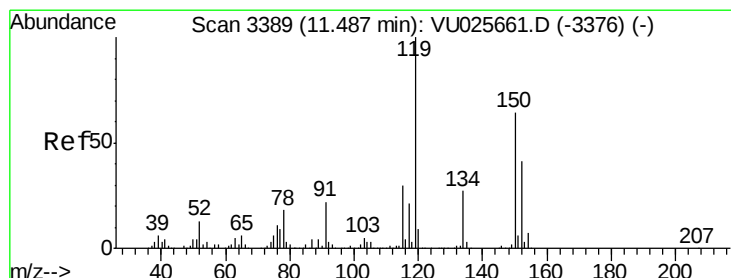
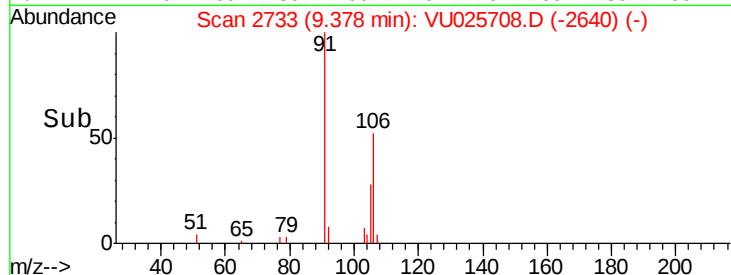
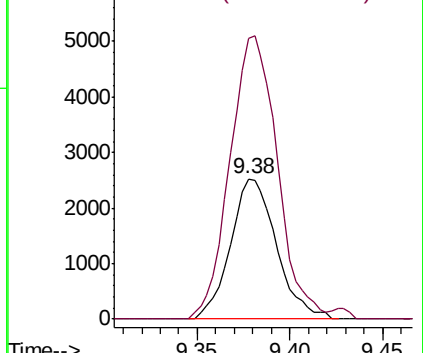
106 100

91 208.1 162.3 243.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

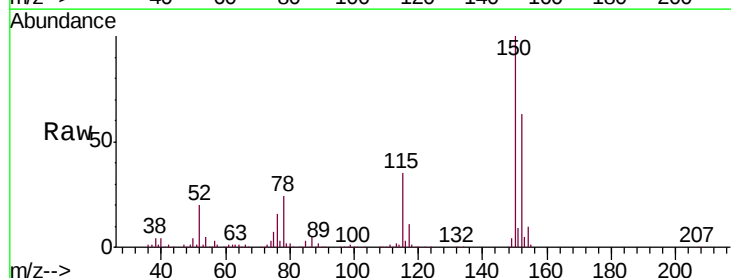
Tgt Ion:152 Resp: 170500

Ion Ratio Lower Upper

152 100

115 56.7 40.1 120.3

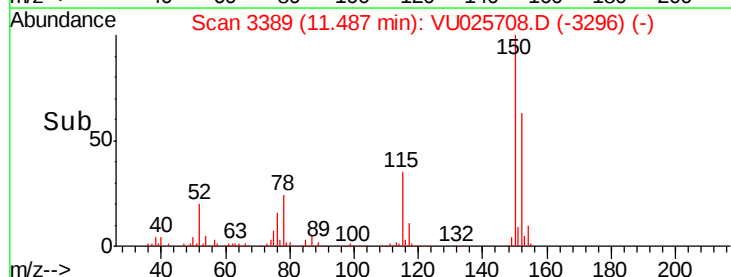
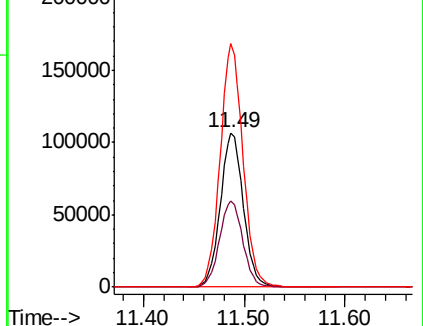
150 156.2 0.0 351.4

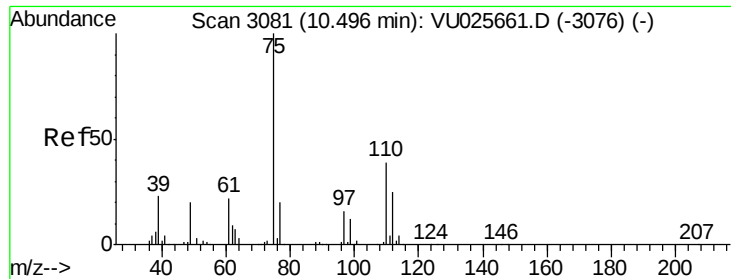


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.16 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

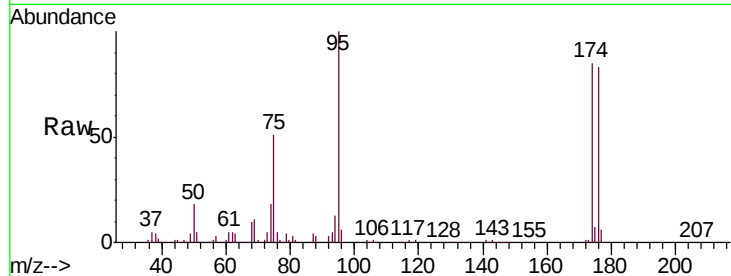
FL-0526

Tot Ion: 75 Resp: 83260

Ion Ratio Lower Upper

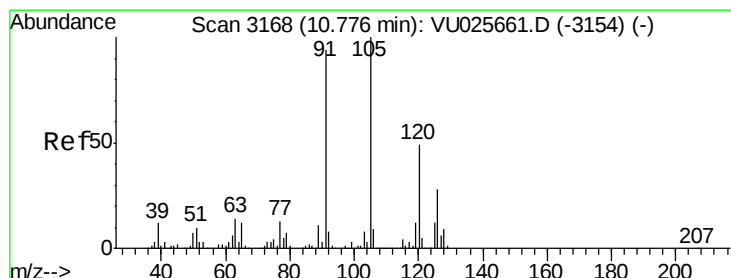
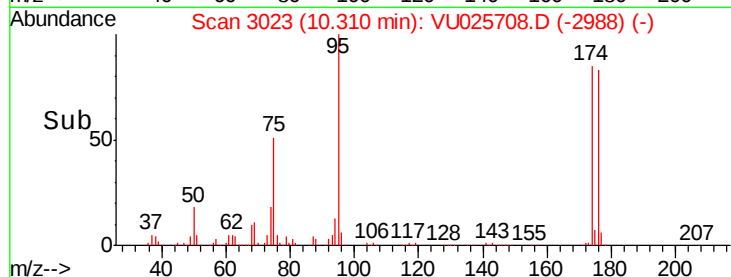
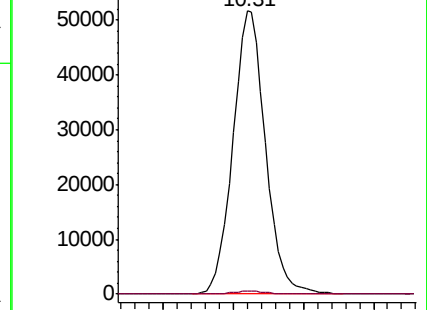
75 100

77 1.1 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU025661.D (-3076) (-)

Ion 77.00 (76.70 to 77.70): VU025661.D (-3076) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.20 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025708.D

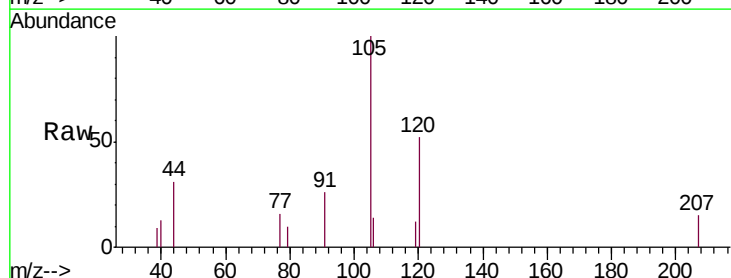
Acq: 28 Jul 2018 07:18

Tgt Ion: 105 Resp: 2026

Ion Ratio Lower Upper

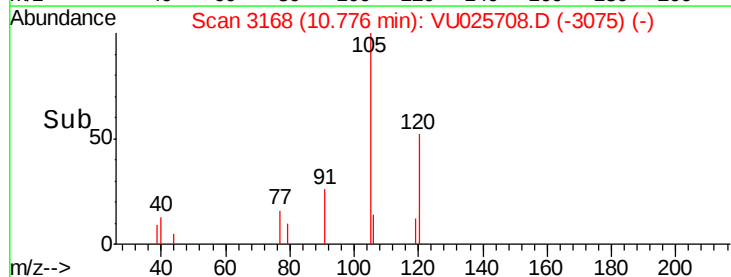
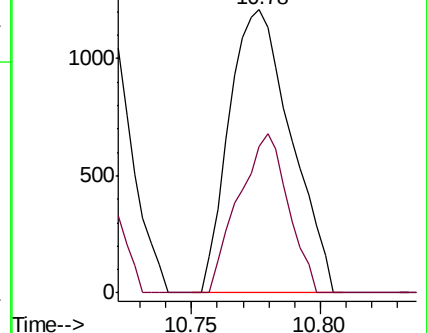
105 100

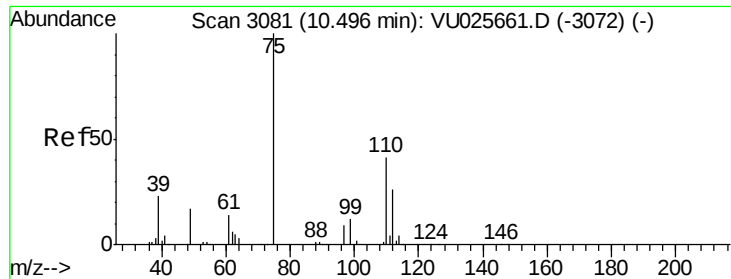
120 45.1 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU025661.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU025661.D (-3154) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 55.57 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

FL-0526

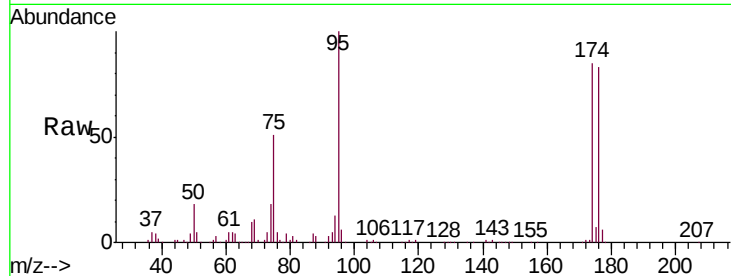
Tot Ion: 75 Resp: 83260

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

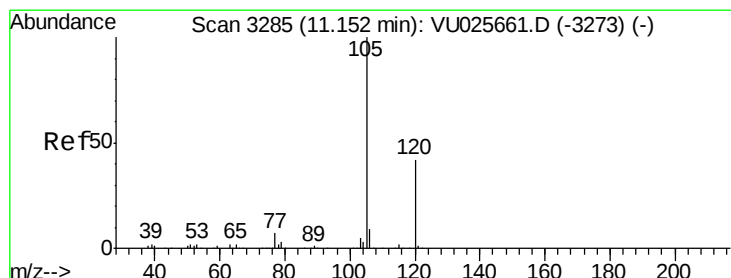
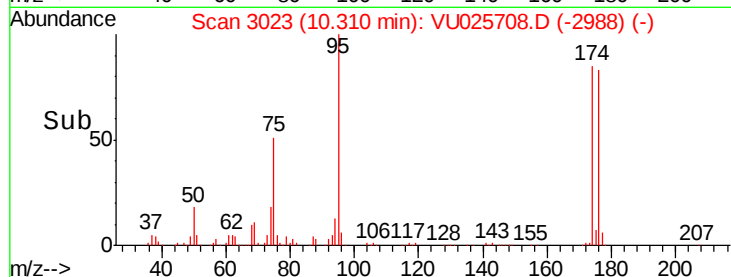
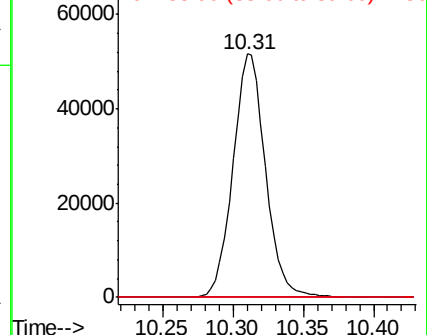
89 0.0 0.0 0.0



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



#84

1,2,4-Trimethylbenzene

Concen: 0.46 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU025708.D

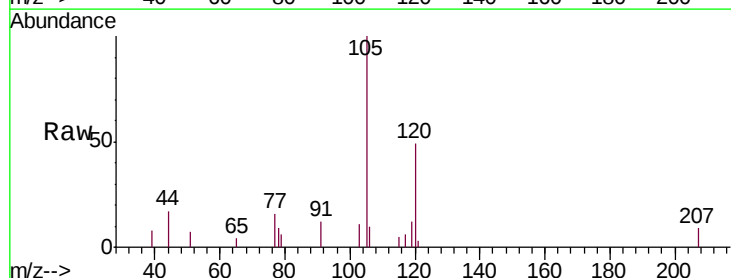
Acq: 28 Jul 2018 07:18

Tgt Ion: 105 Resp: 4648

Ion Ratio Lower Upper

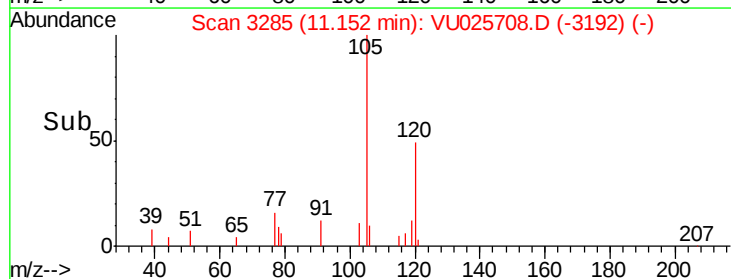
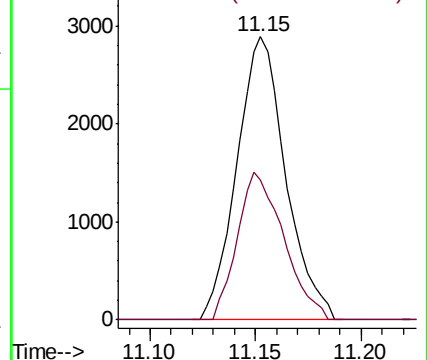
105 100

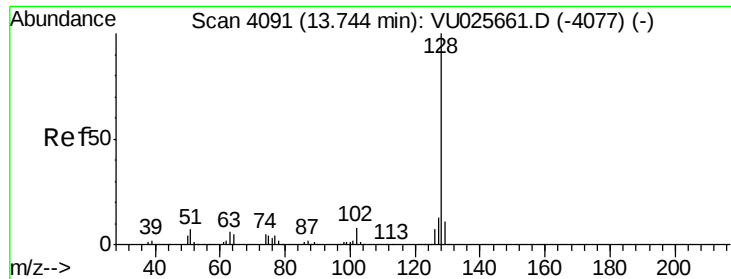
120 49.6 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.94 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU025708.D

Acq: 28 Jul 2018 07:18

Instrument :

MSVOA\_U

ClientSampleId :

FL-0526

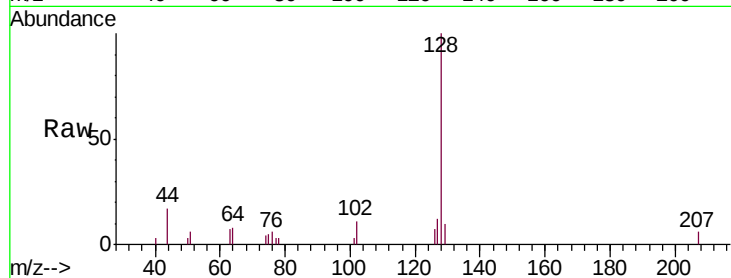
Tot Ion:128 Resp: 8979

Ion Ratio Lower Upper

128 100

127 11.8 10.5 15.7

129 8.4 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

