

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU091418\  
 Data File : VU026722.D  
 Acq On : 13 Sep 2018 09:13  
 Operator : MD/SY  
 Sample : VU0914MBL01  
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0914MBL01

Quant Time: Sep 14 00:58:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U091218W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 12 05:32:45 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 101709   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 175927   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 168919   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 84728    | 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   | 85000    | 55.09 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 110.18% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 75187    | 52.39 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.78% |          |
| 50) Toluene-d8              | 7.57  | 98   | 258623   | 48.73 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.46%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 88076    | 45.79 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.58%  |          |

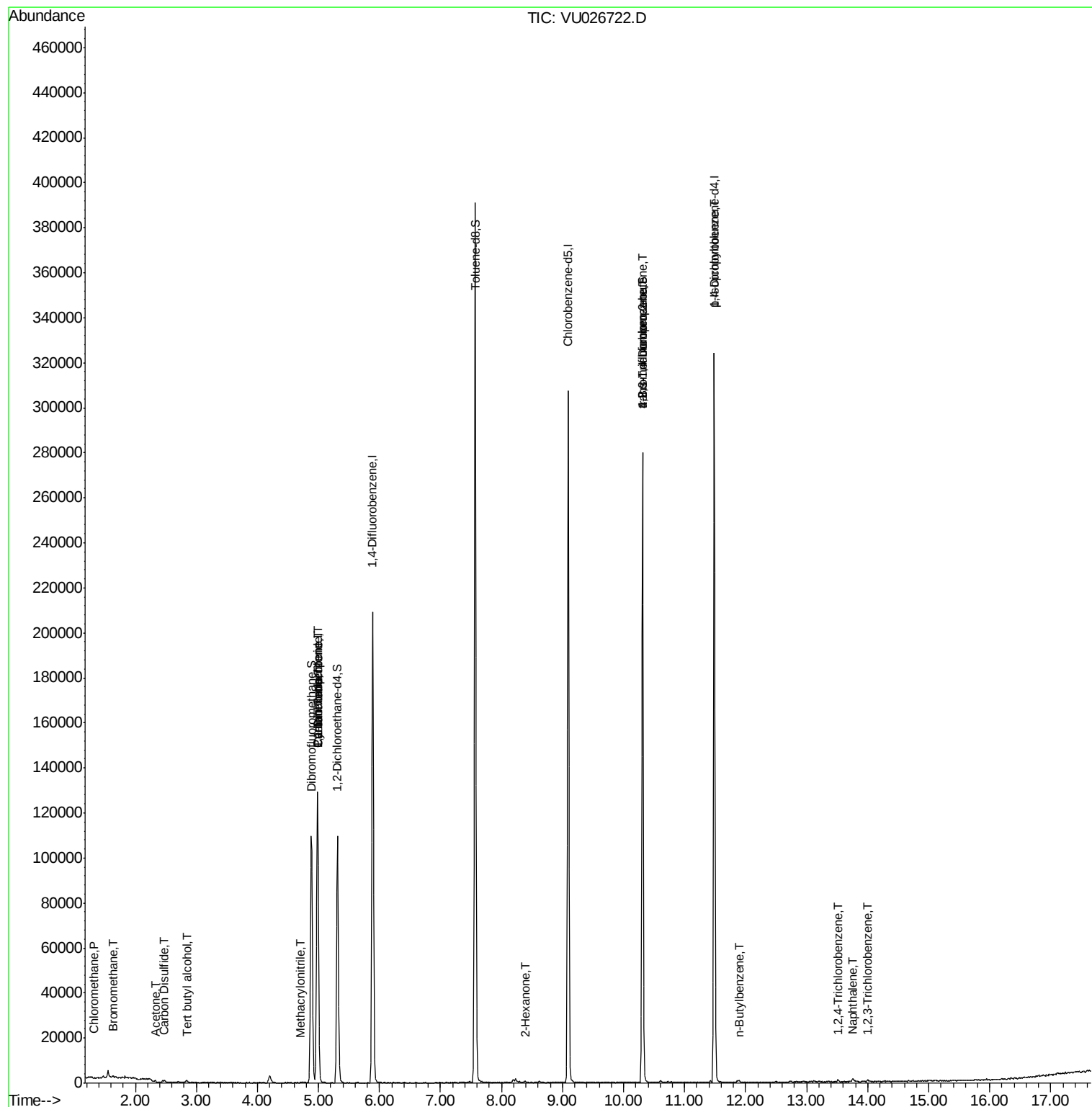
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 310      | 0.202  | ug/l # | 42     |
| 5) Bromomethane                | 1.63  | 94   | 237      | 0.238  | ug/l # | 2      |
| 11) Tert butyl alcohol         | 2.84  | 59   | 672      | 1.787  | ug/l # | 73     |
| 16) Acetone                    | 2.32  | 43   | 664      | 0.760  | ug/l   | 89     |
| 17) Carbon Disulfide           | 2.48  | 76   | 1094     | 0.294  | ug/l # | 87     |
| 31) Cyclohexane                | 4.99  | 56   | 2096     | 0.748  | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 7504     | 3.799  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 9414     | 4.511  | ug/l # | 17     |
| 41) Methacrylonitrile          | 4.70  | 41   | 20       | 0.761  | ug/l # | 24     |
| 59) 2-Hexanone                 | 8.38  | 43   | 715      | 0.376  | ug/l   | 71     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 44055    | 23.212 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 44055    | 69.531 | ug/l # | 100    |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 316      | 1.103  | ug/l # | 34     |
| 89) n-Butylbenzene             | 11.90 | 91   | 371      | 2.177  | ug/l # | 34     |
| 93) 1,2,4-Trichlorobenzene     | 13.51 | 180  | 521      | 0.266  | ug/l # | 75     |
| 95) Naphthalene                | 13.75 | 128  | 1910     | 1.300  | ug/l # | 83     |
| 96) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 779      | 0.381  | ug/l # | 71     |

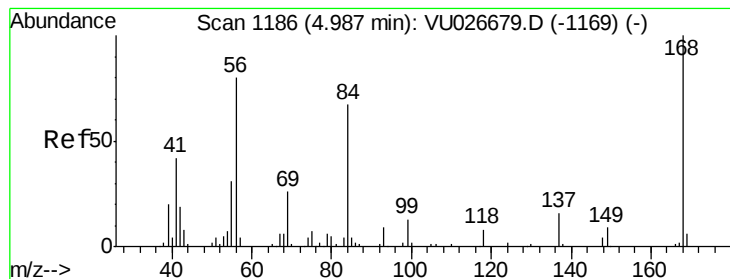
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU091418\  
Data File : VU026722.D  
Acq On : 13 Sep 2018 09:13  
Operator : MD/SY  
Sample : VU0914MBL01  
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0914MBL01

Quant Time: Sep 14 00:58:03 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U091218W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 12 05:32:45 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: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

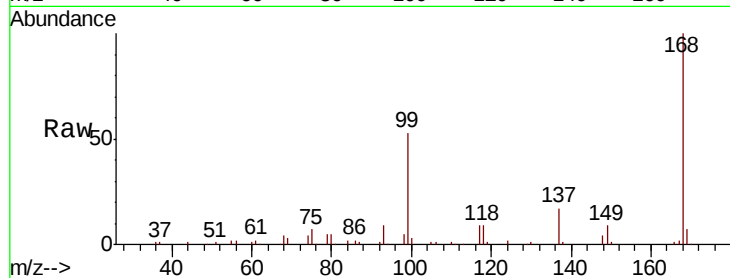
VU0914MBL01

Tgt Ion:168 Resp: 101709

Ion Ratio Lower Upper

168 100

99 53.0 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU026679.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026679.D (-1169) (-)

4.99

50000

40000

30000

20000

10000

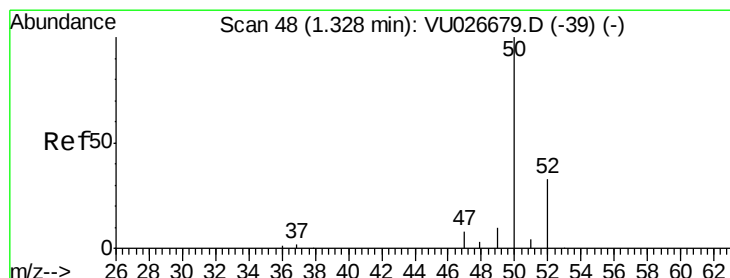
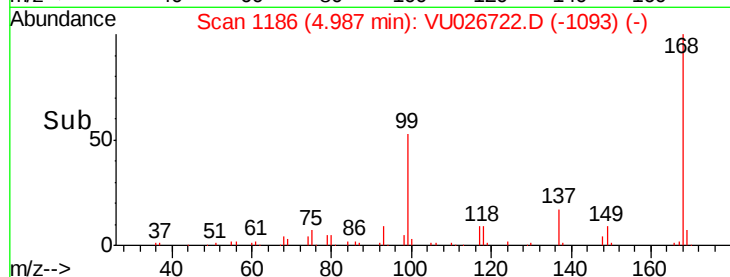
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: 0.202 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU026722.D

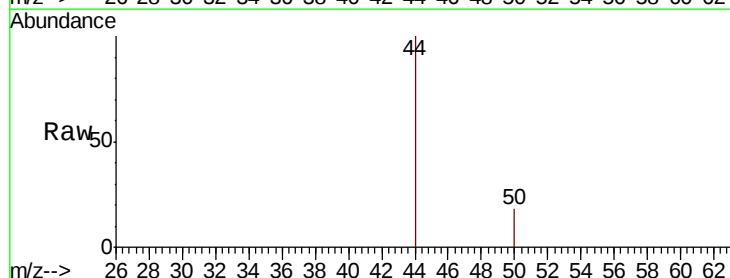
Acq: 13 Sep 2018 09:13

Tgt Ion: 50 Resp: 310

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VU026679.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU026679.D (-39) (-)

1.33

400

300

200

100

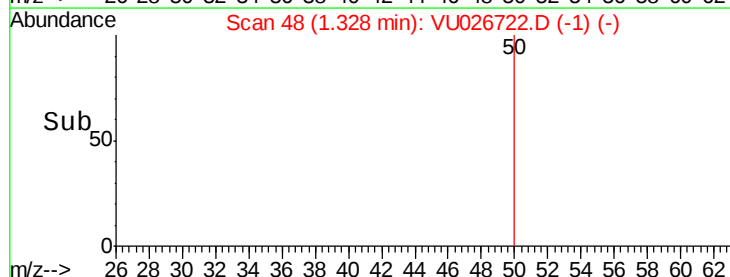
0

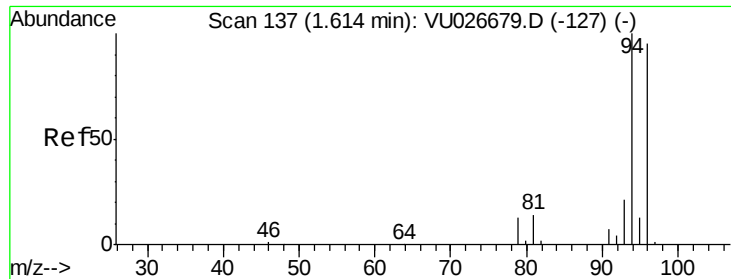
1.30

1.32

1.34

Time-->

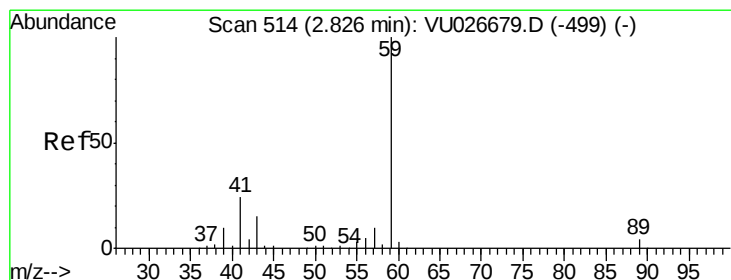
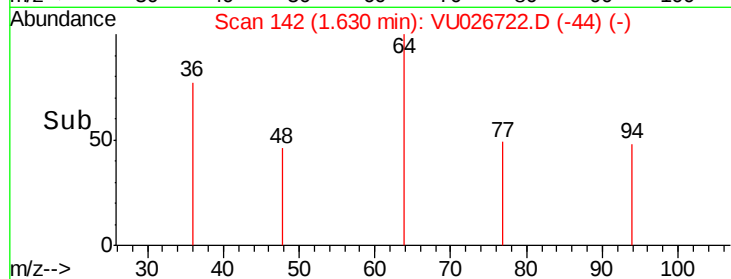
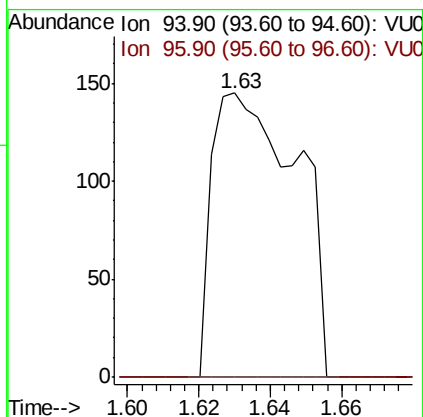
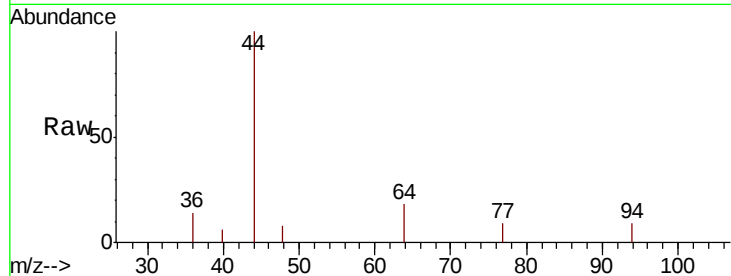




#5  
Bromomethane  
Concen: 0.238 ug/l  
RT: 1.63 min Scan# 142  
Delta R.T. 0.02 min  
Lab File: VU026722.D  
Acq: 13 Sep 2018 09:13

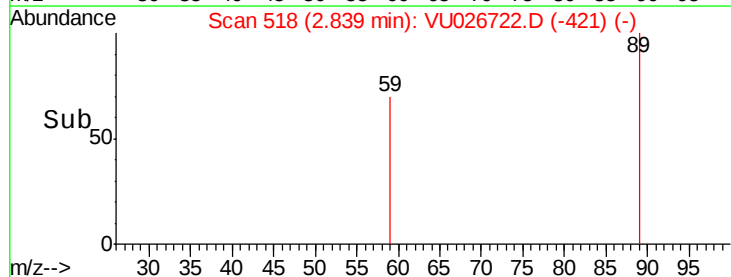
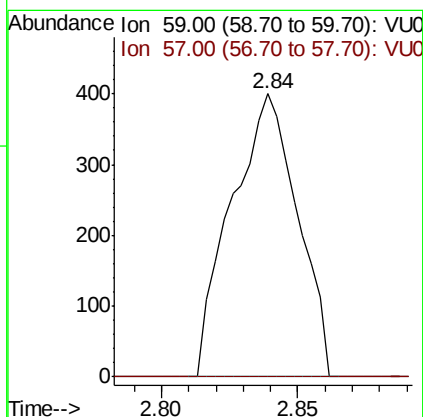
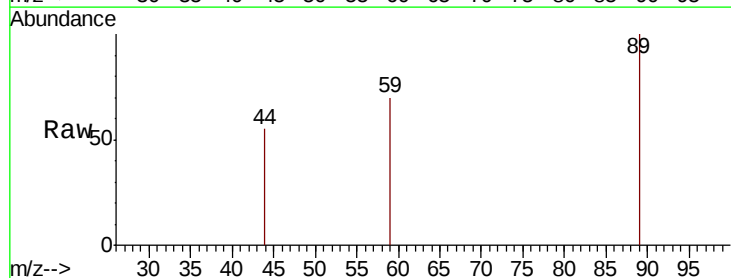
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0914MBL01

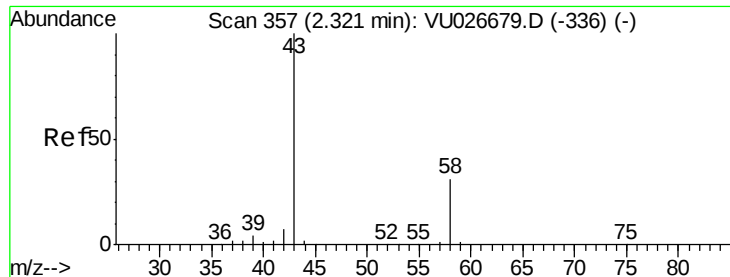
Tgt Ion: 94 Resp: 237  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.8 113.6#



#11  
Tert butyl alcohol  
Concen: 1.787 ug/l  
RT: 2.84 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: VU026722.D  
Acq: 13 Sep 2018 09:13

Tgt Ion: 59 Resp: 672  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#





#16

Acetone

Concen: 0.760 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

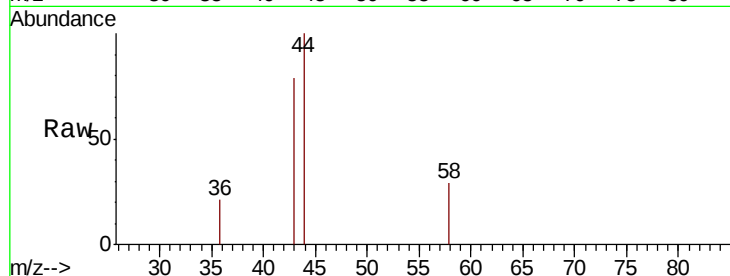
VU0914MBL01

Tgt Ion: 43 Resp: 664

Ion Ratio Lower Upper

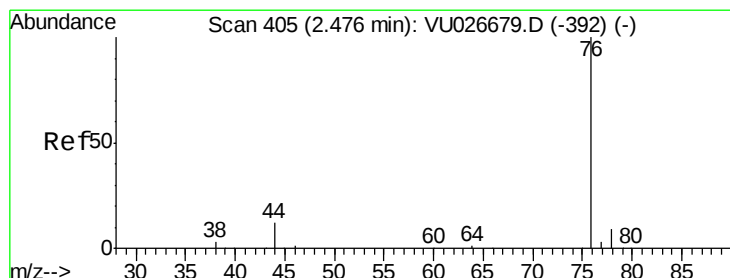
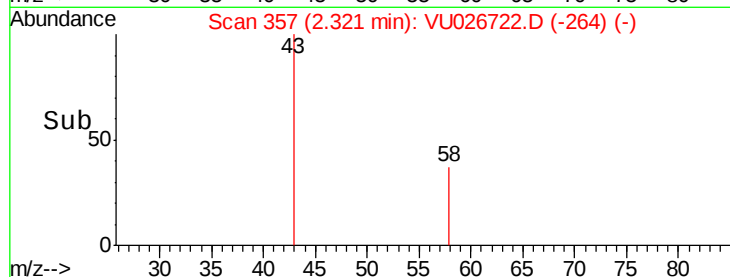
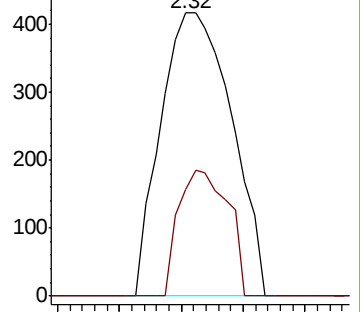
43 100

58 37.4 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 0.294 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU026722.D

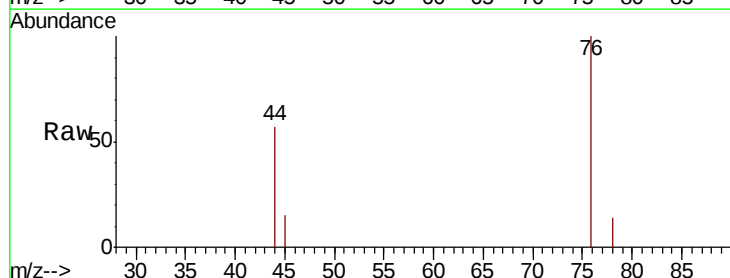
Acq: 13 Sep 2018 09:13

Tgt Ion: 76 Resp: 1094

Ion Ratio Lower Upper

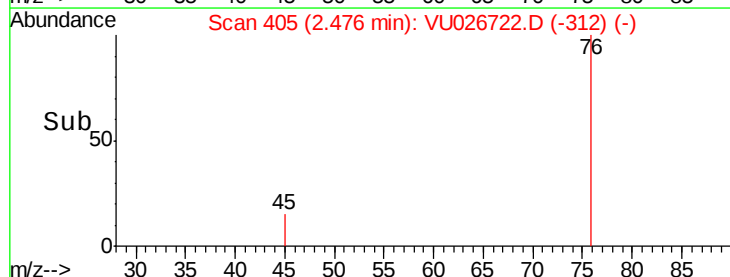
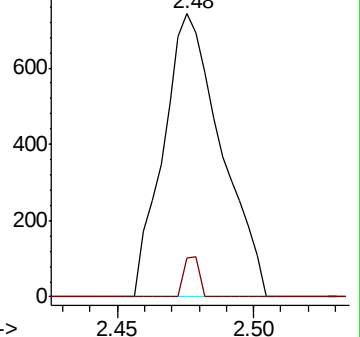
76 100

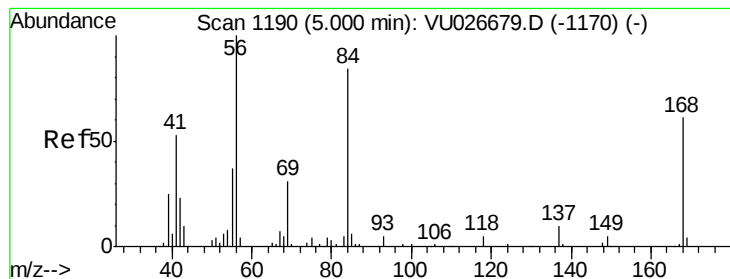
78 13.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0





#31

Cyclohexane

Concen: 0.748 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

VU0914MBL01

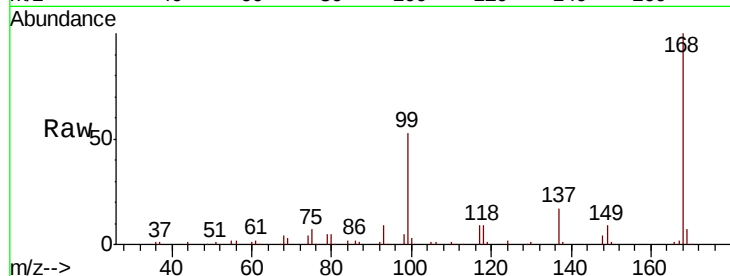
Tgt Ion: 56 Resp: 2096

Ion Ratio Lower Upper

56 100

69 165.7 24.9 37.3#

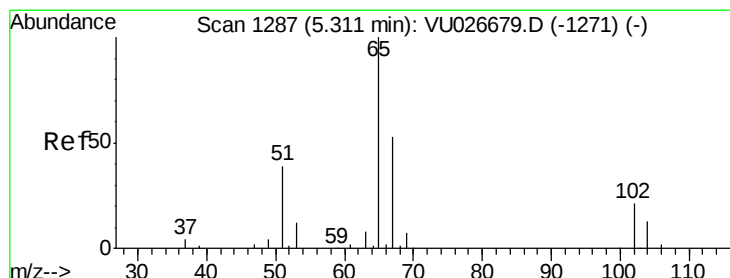
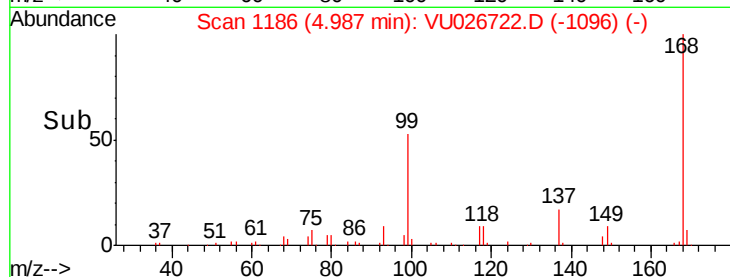
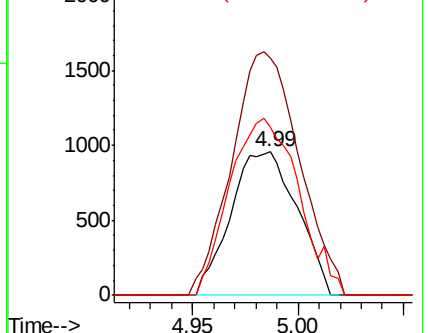
84 117.1 66.6 100.0#



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: 55.092 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU026722.D

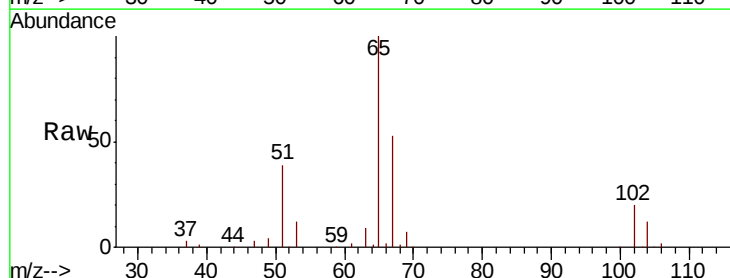
Acq: 13 Sep 2018 09:13

Tgt Ion: 65 Resp: 85000

Ion Ratio Lower Upper

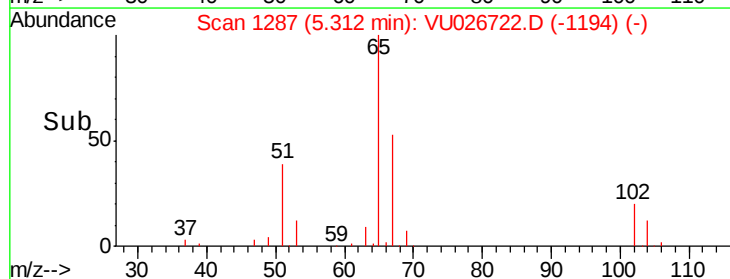
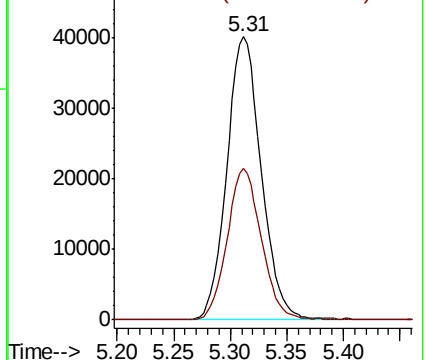
65 100

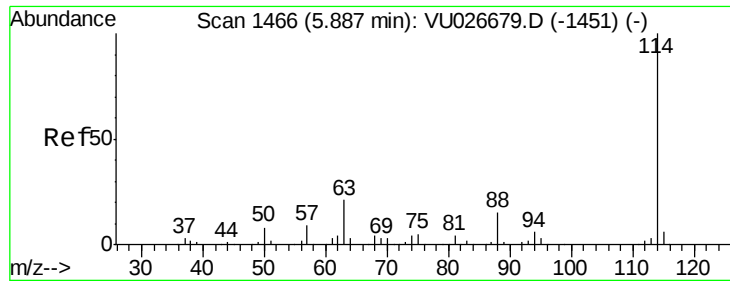
67 52.9 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

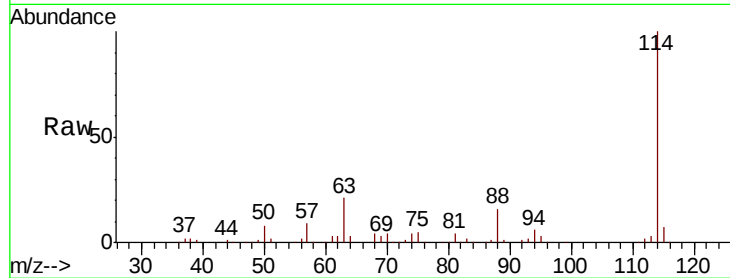




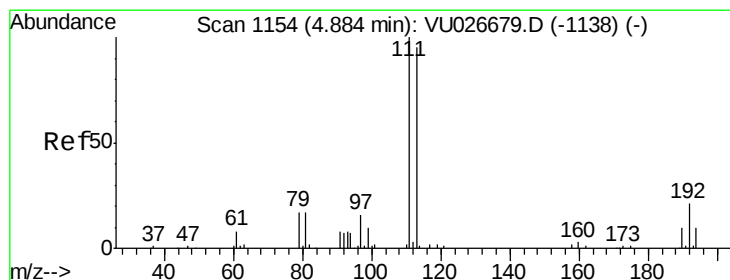
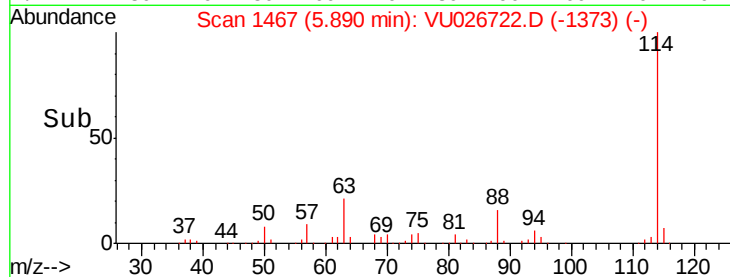
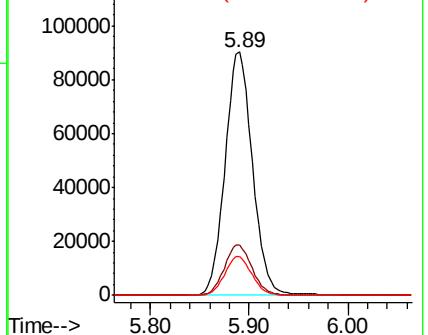
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0914MBL01

Tgt Ion:114 Resp: 175927  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 41.4  
 88 15.8 0.0 30.8

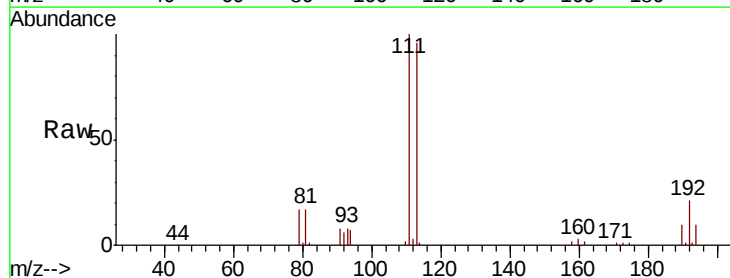


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

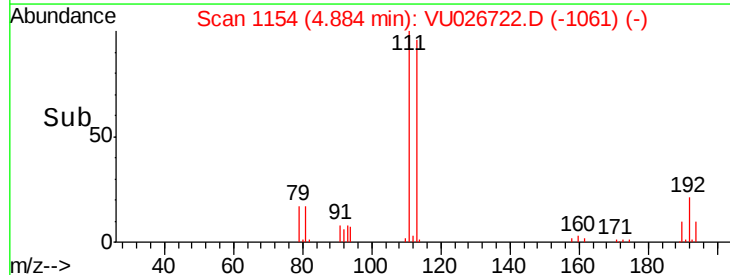
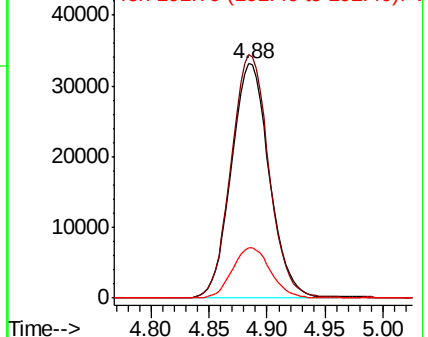


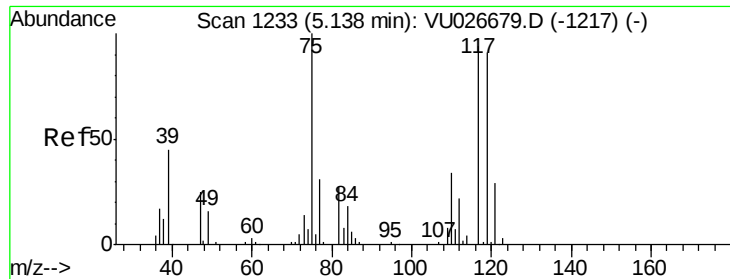
#35  
 Dibromofluoromethane  
 Concen: 52.394 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

Tgt Ion:113 Resp: 75187  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 83.1 124.7  
 192 21.5 17.4 26.2



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

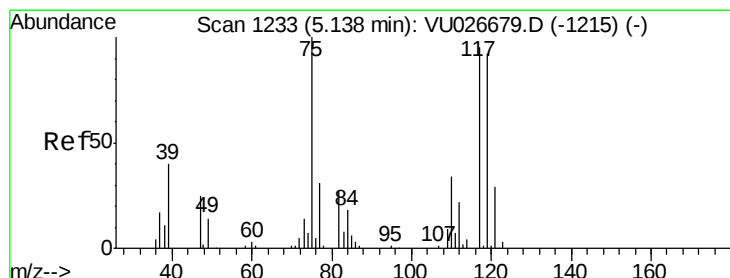
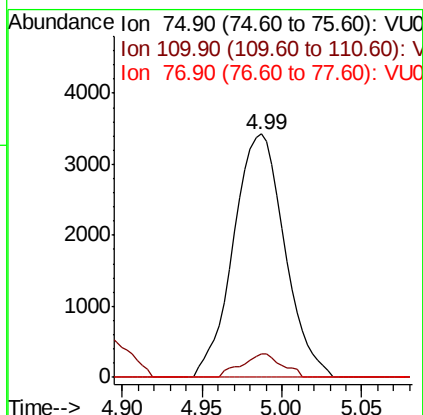
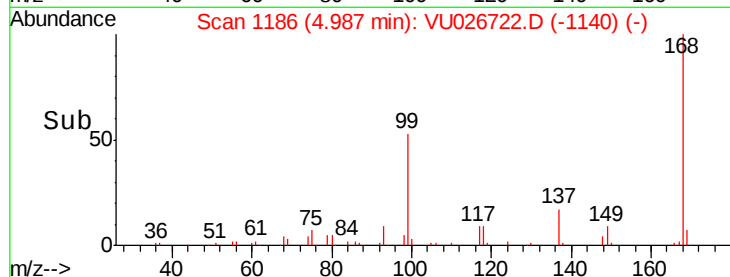
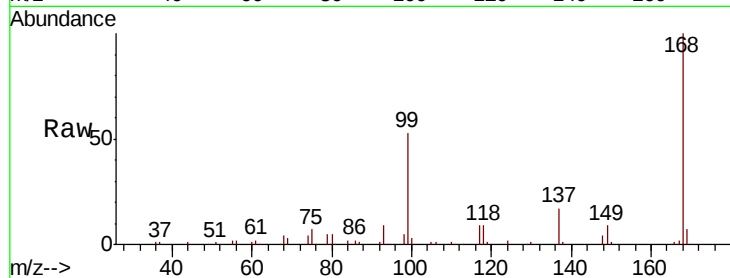




#36  
 1,1-Dichloropropene  
 Concen: 3.799 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

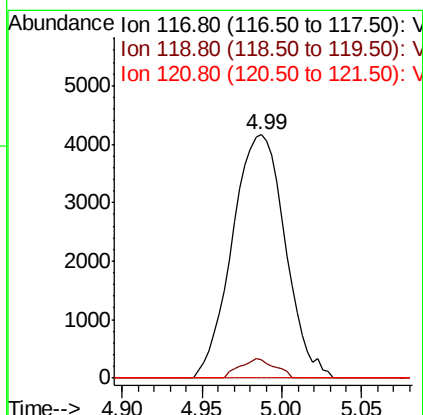
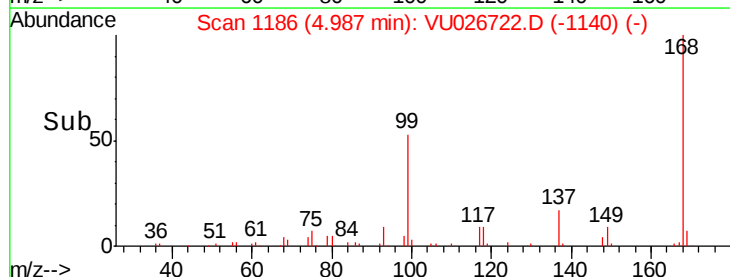
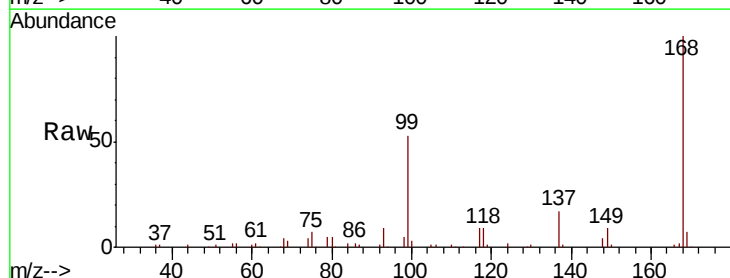
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0914MBL01

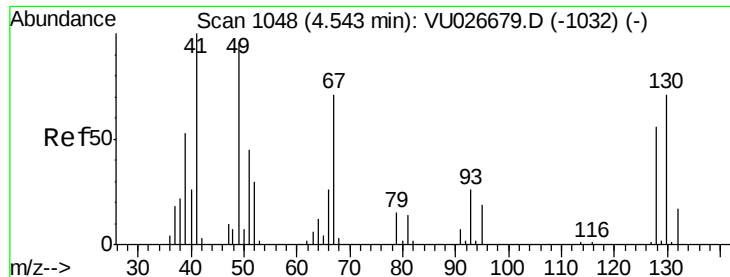
Tgt Ion: 75 Resp: 7504  
 Ion Ratio Lower Upper  
 75 100  
 110 7.5 17.3 51.9#  
 77 0.0 24.9 37.3#



#38  
 Carbon Tetrachloride  
 Concen: 4.511 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

Tgt Ion: 117 Resp: 9414  
 Ion Ratio Lower Upper  
 117 100  
 119 7.7 77.8 116.8#  
 121 0.0 25.0 37.4#





#41

Methacrylonitrile

Concen: 0.761 ug/l

RT: 4.70 min Scan# 1097

Delta R.T. 0.16 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

VU0914MBL01

Tgt Ion: 41 Resp: 20

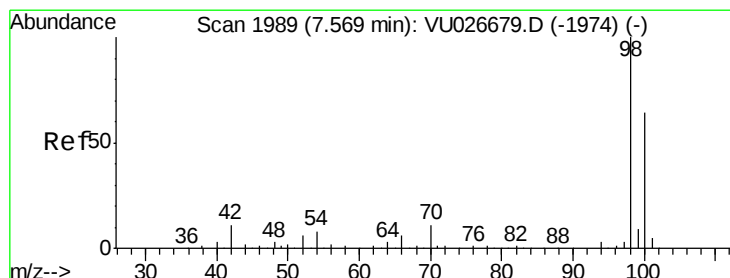
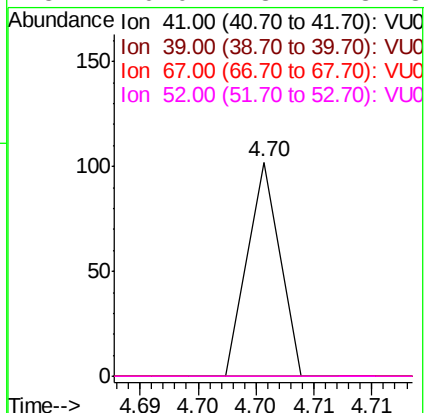
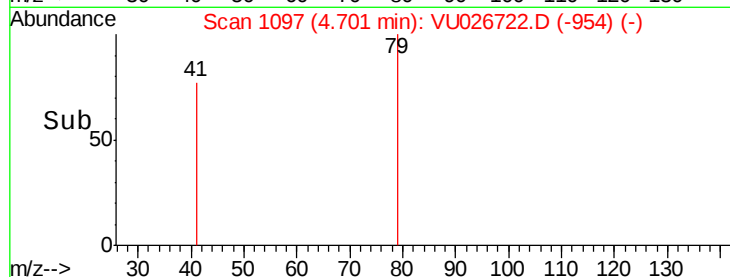
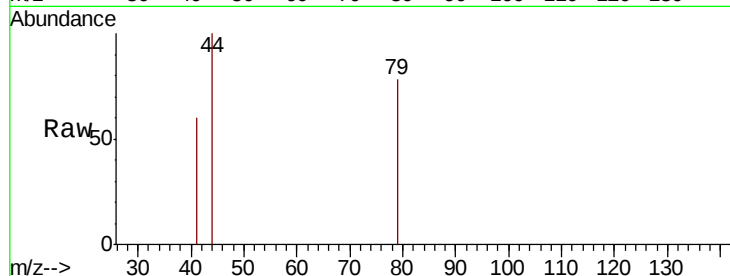
Ion Ratio Lower Upper

41 100

39 0.0 42.9 64.3#

67 0.0 56.6 84.8#

52 0.0 23.2 34.8#



#50

Toluene-d8

Concen: 48.727 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VU026722.D

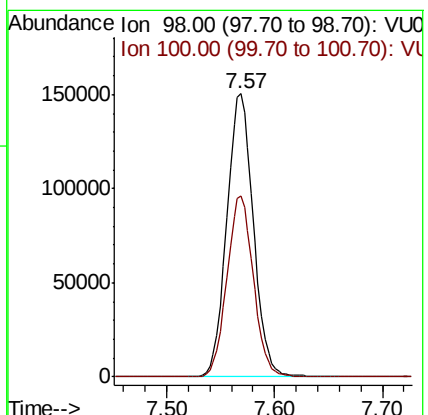
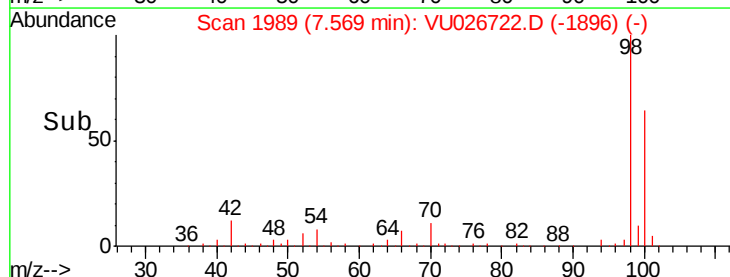
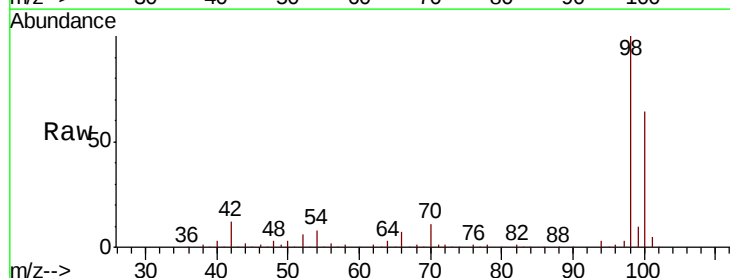
Acq: 13 Sep 2018 09:13

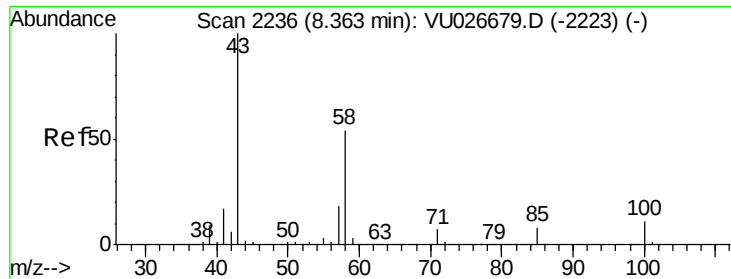
Tgt Ion: 98 Resp: 258623

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8

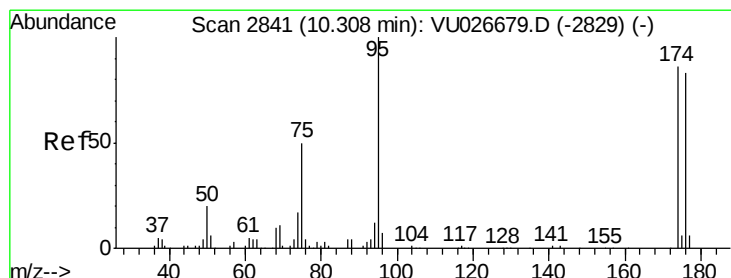
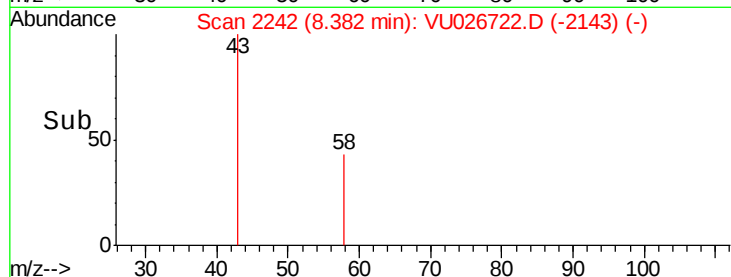
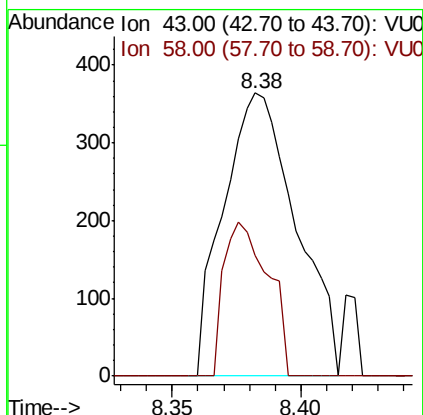
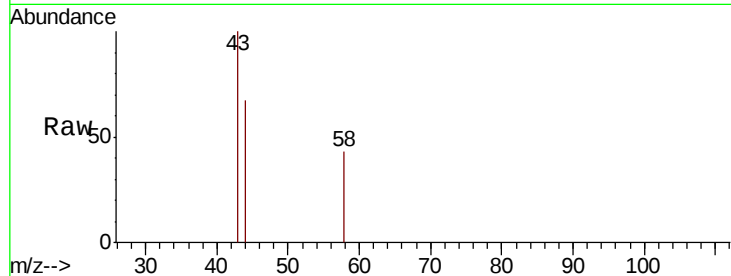




#59  
 2-Hexanone  
 Concen: 0.376 ug/l  
 RT: 8.38 min Scan# 2242  
 Delta R.T. 0.02 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

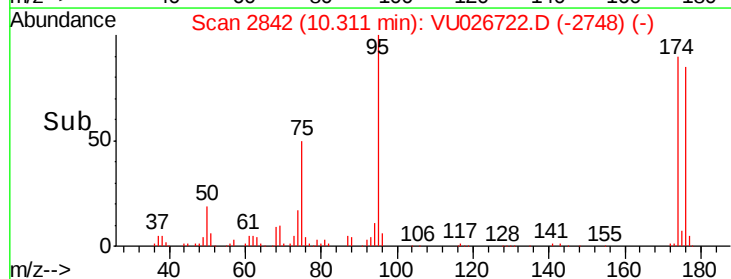
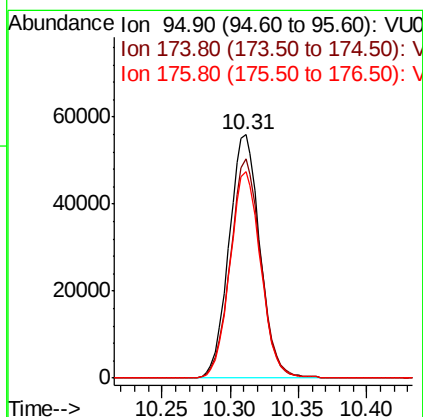
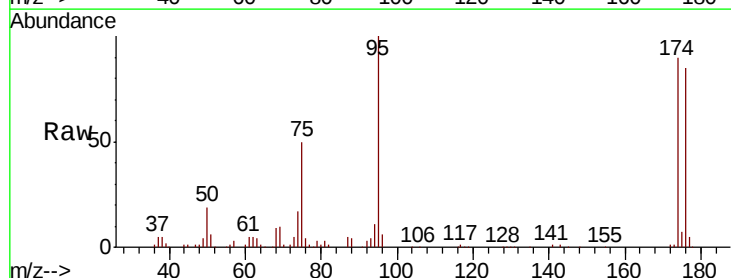
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0914MBL01

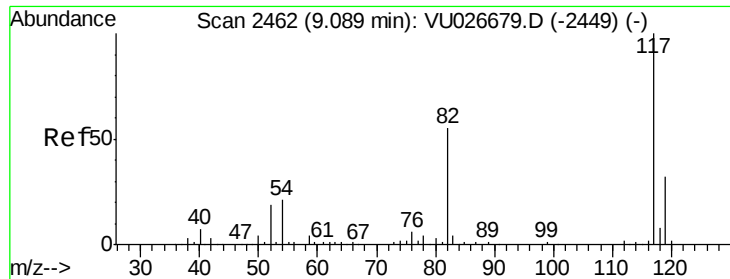
Tgt Ion: 43 Resp: 715  
 Ion Ratio Lower Upper  
 43 100  
 58 33.3 26.9 80.7



#62  
 4-Bromofluorobenzene  
 Concen: 45.786 ug/l  
 RT: 10.31 min Scan# 2842  
 Delta R.T. 0.00 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

Tgt Ion: 95 Resp: 88076  
 Ion Ratio Lower Upper  
 95 100  
 174 89.3 0.0 172.8  
 176 84.6 0.0 168.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

VU0914MBL01

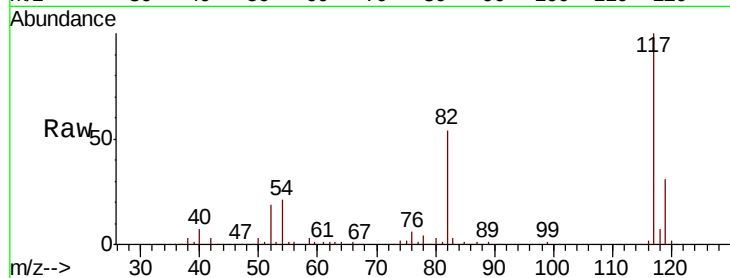
Tgt Ion:117 Resp: 168919

Ion Ratio Lower Upper

117 100

82 54.4 44.1 66.1

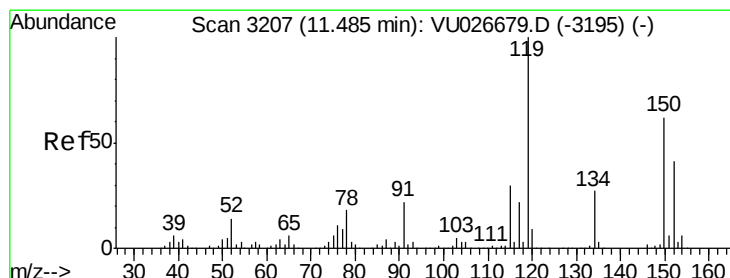
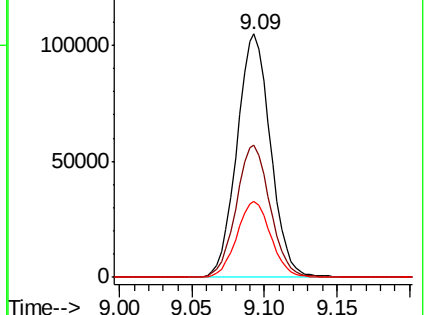
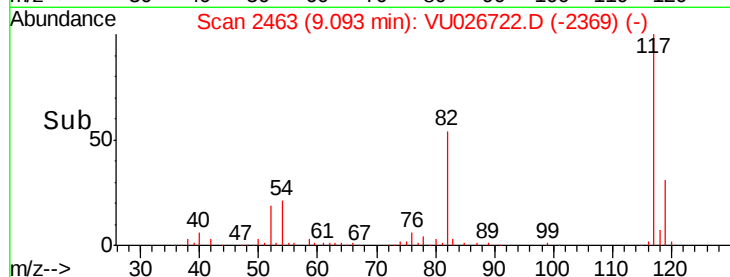
119 31.4 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

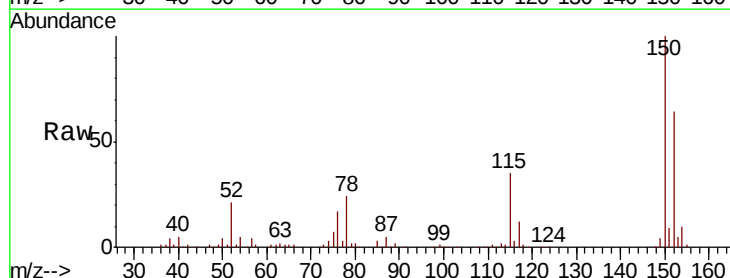
Tgt Ion:152 Resp: 84728

Ion Ratio Lower Upper

152 100

115 56.6 40.4 121.1

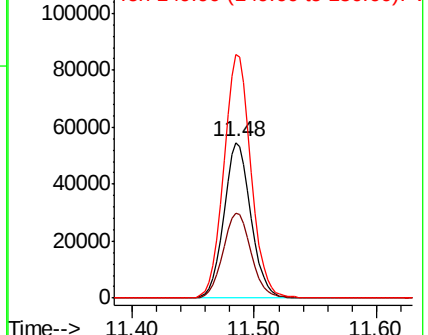
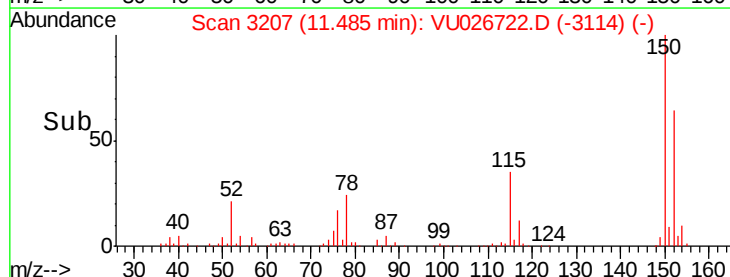
150 157.0 0.0 345.2

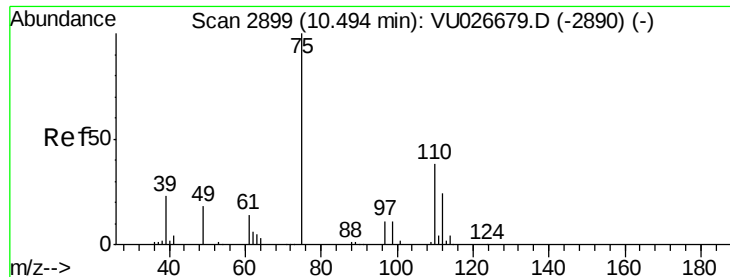


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.212 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.18 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

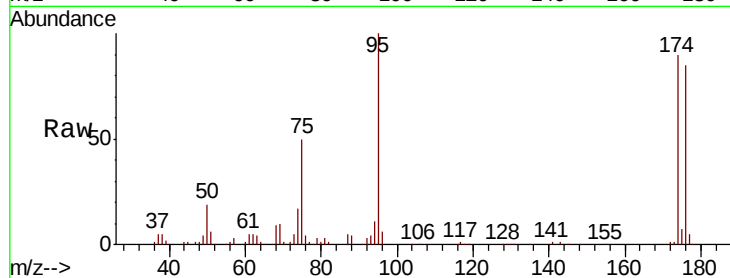
VU0914MBL01

Tgt Ion: 75 Resp: 44055

Ion Ratio Lower Upper

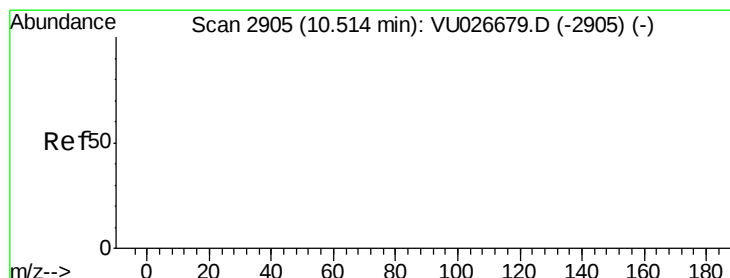
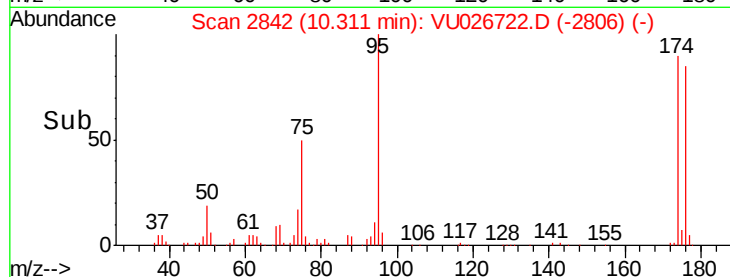
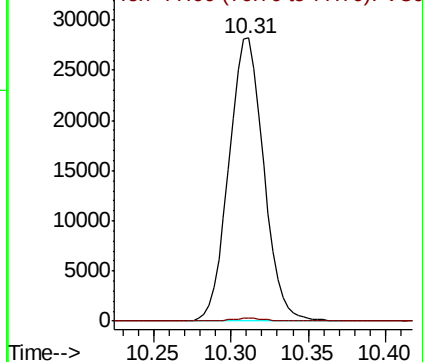
75 100

77 0.9 21.1 63.1#



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: 69.531 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.20 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

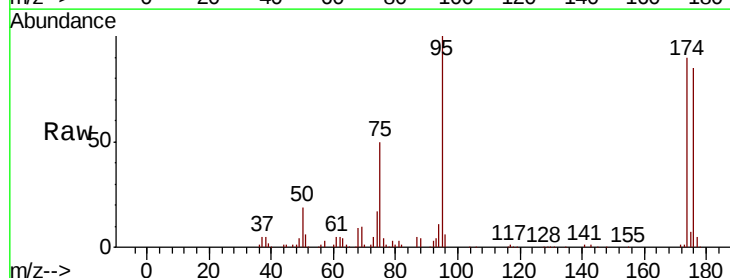
Tgt Ion: 75 Resp: 44055

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

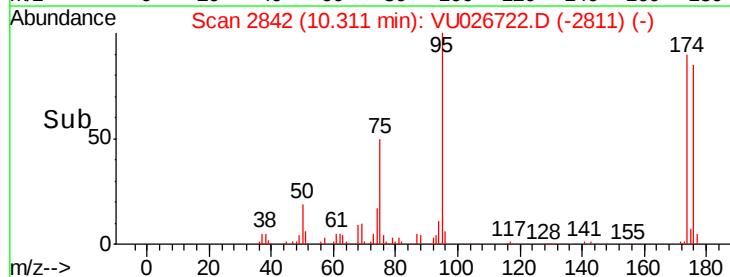
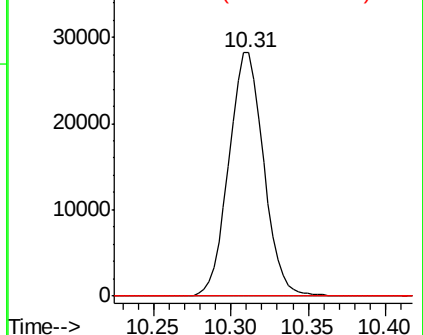
89 0.0 0.0 0.0

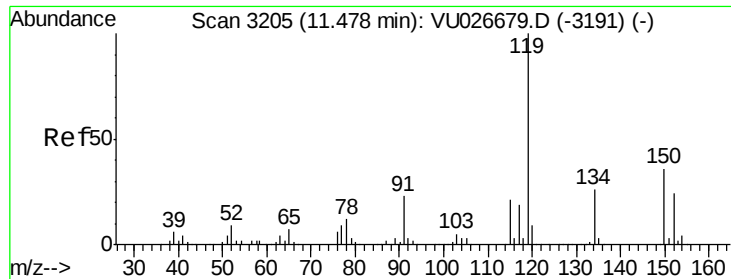


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#86

p-Isopropyltoluene

Concen: 1.103 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

VU0914MBL01

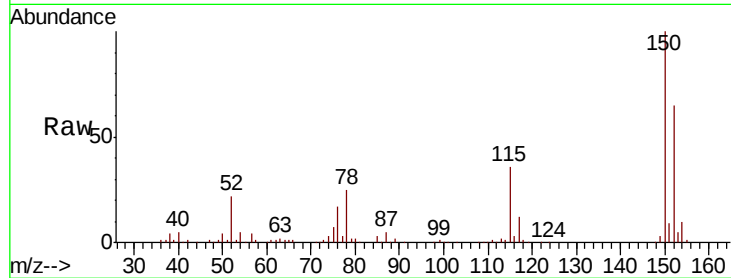
Tgt Ion: 119 Resp: 316

Ion Ratio Lower Upper

119 100

134 0.0 13.2 39.5#

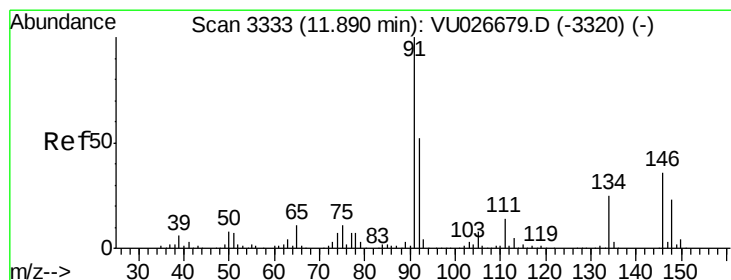
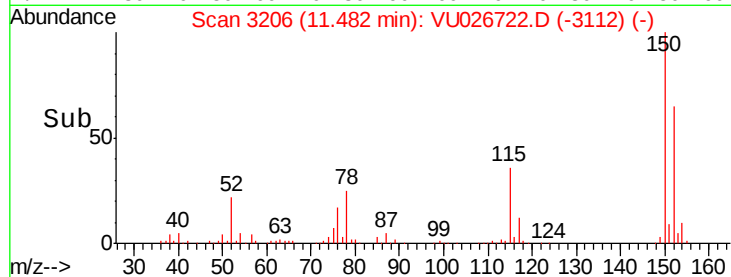
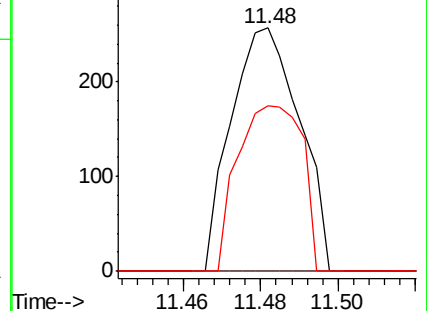
91 63.9 11.6 34.8#



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): V



#89

n-Butylbenzene

Concen: 2.177 ug/l

RT: 11.90 min Scan# 3337

Delta R.T. 0.01 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

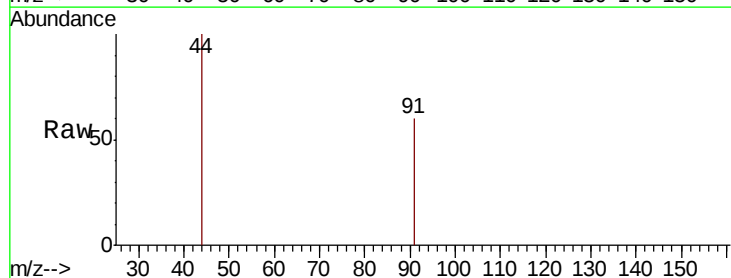
Tgt Ion: 91 Resp: 371

Ion Ratio Lower Upper

91 100

92 0.0 25.8 77.3#

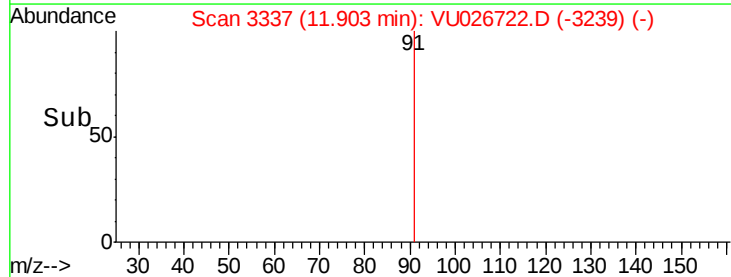
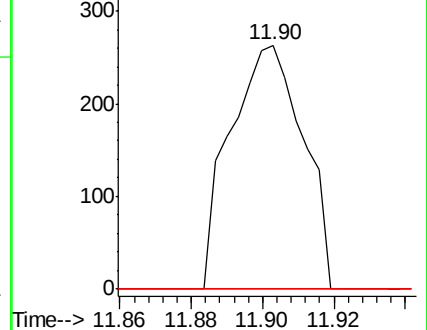
134 0.0 12.6 37.8#

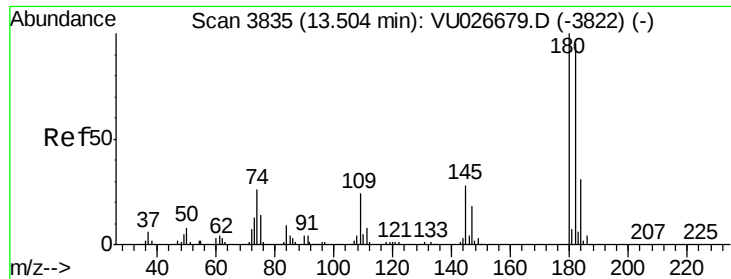


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 0.266 ug/l

RT: 13.51 min Scan# 3837

Delta R.T. 0.01 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

VU0914MBL01

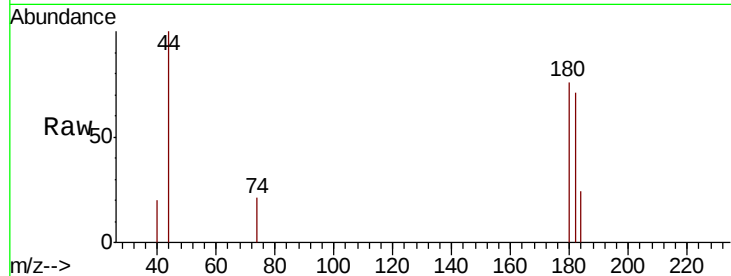
Tgt Ion:180 Resp: 521

Ion Ratio Lower Upper

180 100

182 111.7 47.9 143.7

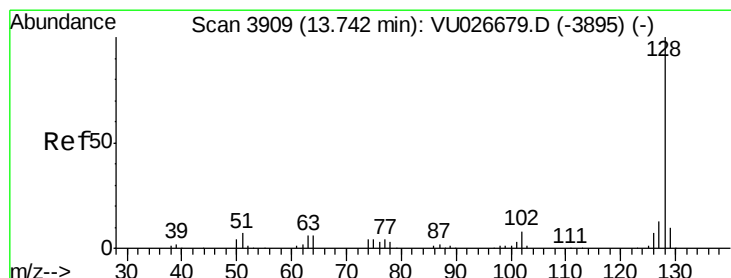
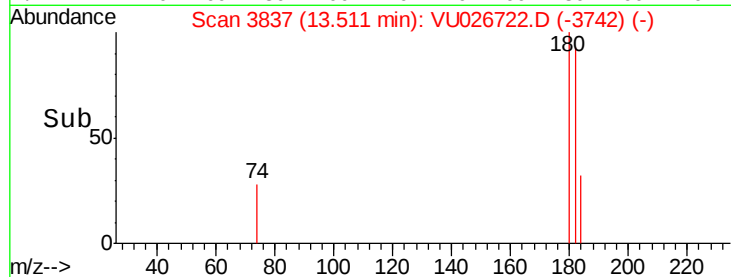
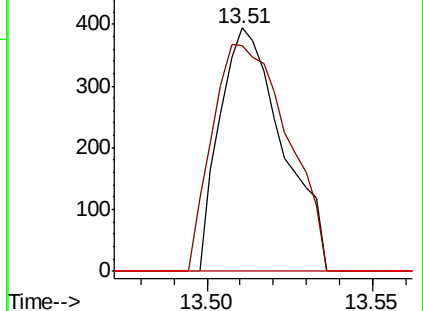
145 0.0 14.0 42.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.300 ug/l

RT: 13.75 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

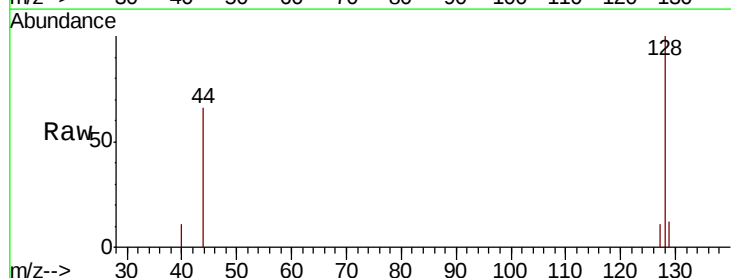
Tgt Ion:128 Resp: 1910

Ion Ratio Lower Upper

128 100

127 4.6 10.4 15.6#

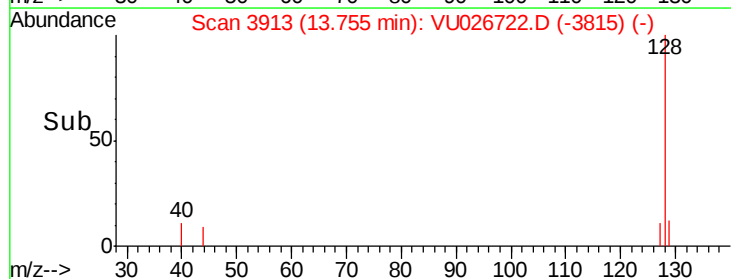
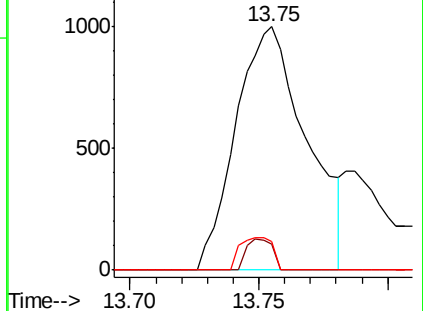
129 6.1 8.6 12.8#

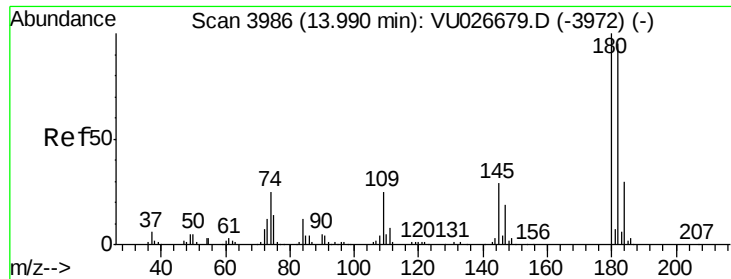


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.381 ug/l  
 RT: 14.00 min Scan# 3988  
 Delta R.T. 0.01 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0914MBL01

Tgt Ion:180 Resp: 779  
 Ion Ratio Lower Upper  
 180 100  
 182 75.0 47.9 143.7  
 145 0.0 14.9 44.9#

