

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121718\  
 Data File : VU028725.D  
 Acq On : 17 Dec 2018 17:07  
 Operator : MD/SY  
 Sample : J6402-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 18 03:09:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:39:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 84963    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.88  | 114  | 152936   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 134480   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 53572    | 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   | 68170    | 52.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.16% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 50964    | 52.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.90% |          |
| 50) Toluene-d8              | 7.57  | 98   | 193943   | 50.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.88% |          |
| 62) 4-Bromofluorobenzene    | 10.30 | 95   | 62869    | 44.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.36%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1448     | 0.692  | ug/l   | 91     |
| 6) Chloroethane                | 1.50  | 64   | 42330    | 49.487 | ug/l # | 54     |
| 11) Tert butyl alcohol         | 2.83  | 59   | 2837     | 9.821  | ug/l # | 73     |
| 14) Allyl chloride             | 2.70  | 41   | 569      | 0.254  | ug/l # | 56     |
| 16) Acetone                    | 2.32  | 43   | 2194     | 2.593  | ug/l   | 94     |
| 17) Carbon Disulfide           | 2.48  | 76   | 785      | 0.230  | ug/l # | 75     |
| 18) Methyl Acetate             | 2.63  | 43   | 1184     | 0.540  | ug/l # | 56     |
| 19) Methyl tert-butyl Ether    | 3.00  | 73   | 2055     | 0.573  | ug/l # | 1      |
| 22) Diisopropyl ether          | 3.57  | 45   | 2577     | 0.592  | ug/l # | 93     |
| 23) Vinyl Acetate              | 3.57  | 43   | 918      | 0.256  | ug/l # | 76     |
| 31) Cyclohexane                | 4.99  | 56   | 4285     | 0.748  | ug/l # | 38     |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 7482     | 4.471  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.98  | 117  | 8419     | 6.241  | ug/l # | 16     |
| 40) Benzene                    | 5.39  | 78   | 36741    | 7.454  | ug/l   | 100    |
| 41) Methacrylonitrile          | 4.78  | 41   | 445      | 0.376  | ug/l # | 1      |
| 42) 1,2-Dichloroethane         | 5.40  | 62   | 629      | 0.365  | ug/l # | 76     |
| 49) 1,4-Dioxane                | 6.62  | 88   | 223      | 8.299  | ug/l # | 22     |
| 51) 4-Methyl-2-Pentanone       | 7.47  | 43   | 566      | 0.262  | ug/l # | 37     |
| 52) Toluene                    | 7.64  | 92   | 5439     | 1.875  | ug/l   | 97     |
| 67) Ethyl Benzene              | 9.25  | 91   | 41534    | 7.884  | ug/l   | 98     |
| 68) m/p-Xylenes                | 9.38  | 106  | 17606    | 9.185  | ug/l   | 99     |
| 69) o-Xylene                   | 9.78  | 106  | 6526     | 3.503  | ug/l   | 96     |
| 73) Isopropylbenzene           | 10.16 | 105  | 2889     | 0.703  | ug/l   | 95     |
| 76) 1,2,3-Trichloropropane     | 10.30 | 75   | 32829    | 23.998 | ug/l # | 35     |
| 78) n-propylbenzene            | 10.59 | 91   | 2924     | 0.572  | ug/l   | 94     |
| 79) 2-Chlorotoluene            | 10.68 | 91   | 900      | 0.306  | ug/l # | 43     |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 4325     | 1.271  | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 10.30 | 75   | 32829    | 58.910 | ug/l # | 100    |
| 83) tert-Butylbenzene          | 11.15 | 119  | 2314     | 0.706  | ug/l # | 58     |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 19467    | 5.551  | ug/l   | 99     |
| 85) sec-Butylbenzene           | 11.15 | 105  | 19467    | 4.620  | ug/l # | 59     |
| 90) Hexachloroethane           | 12.30 | 117  | 220      | 0.407  | ug/l # | 11     |
| 95) Naphthalene                | 13.75 | 128  | 6681     | 1.533  | ug/l # | 91     |

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MSVOA\_U  
ClientSampleId :

Quant Time: Dec 18 03:09:23 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 07 00:39:42 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

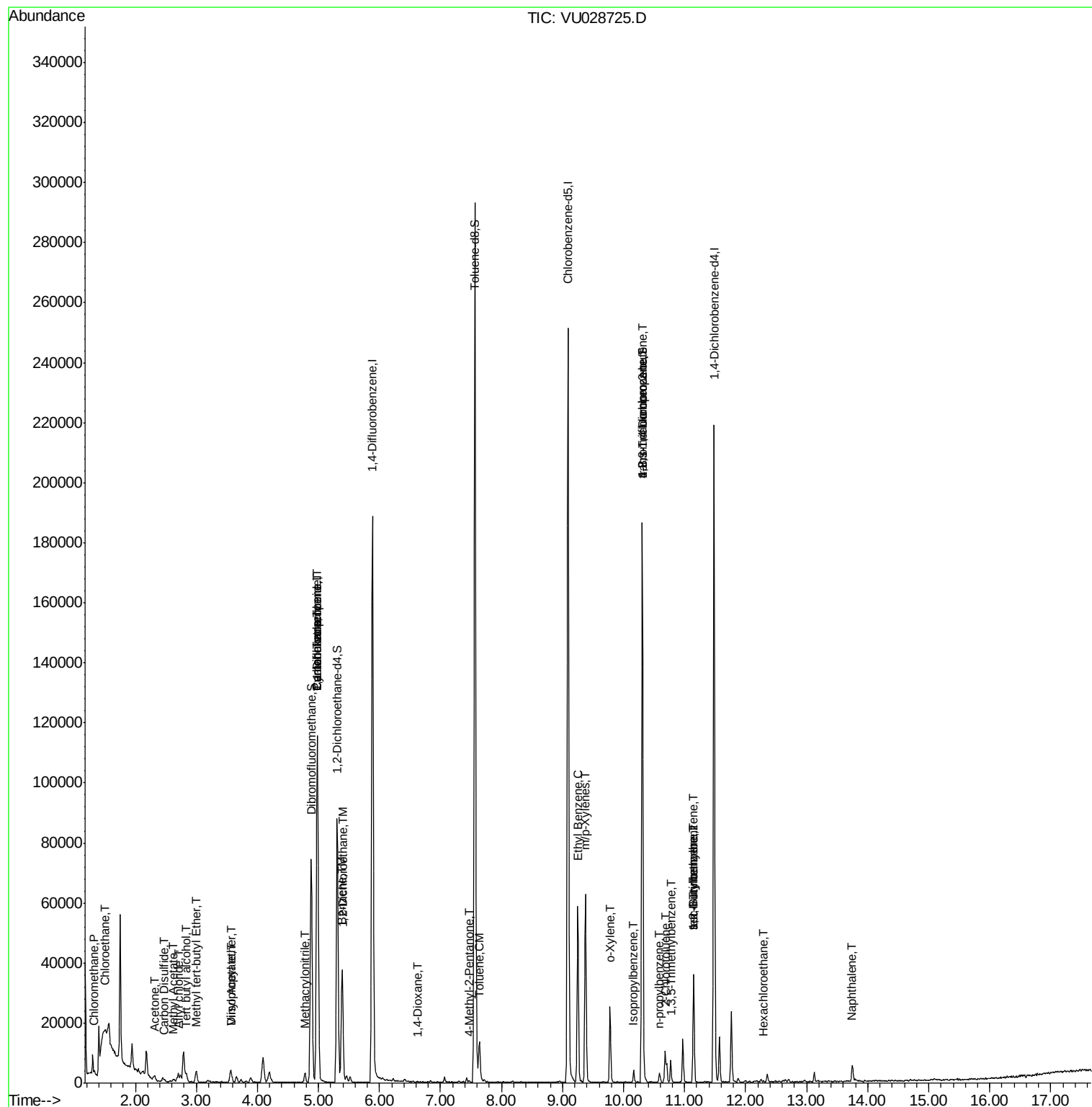
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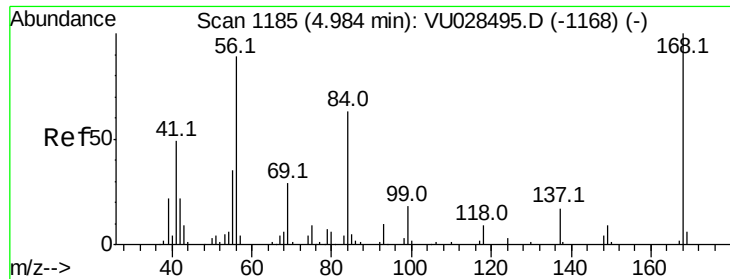
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

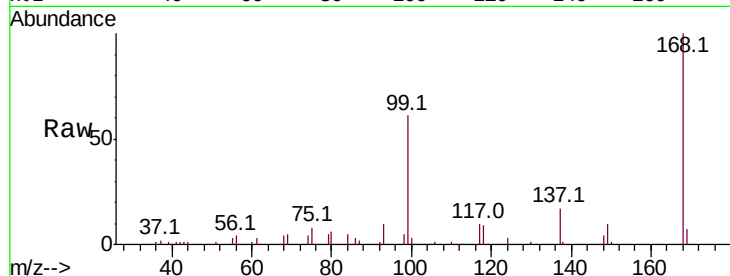
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:168 Resp: 84963

Ion Ratio Lower Upper

168 100

99 60.9 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

40000

30000

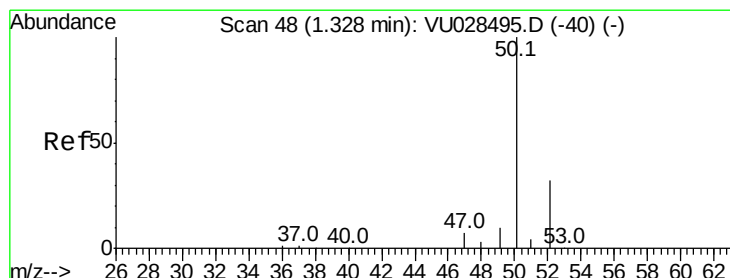
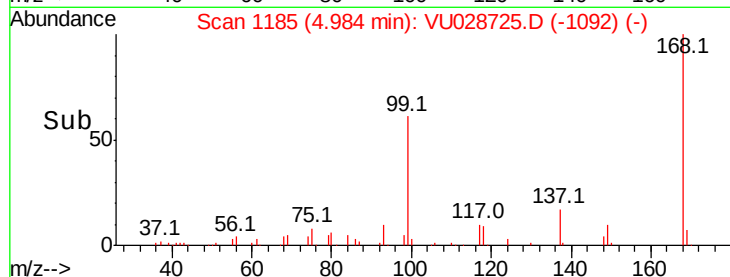
20000

10000

0

Time-->

4.90 5.00 5.10



#3

Chloromethane

Concen: 0.692 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028725.D

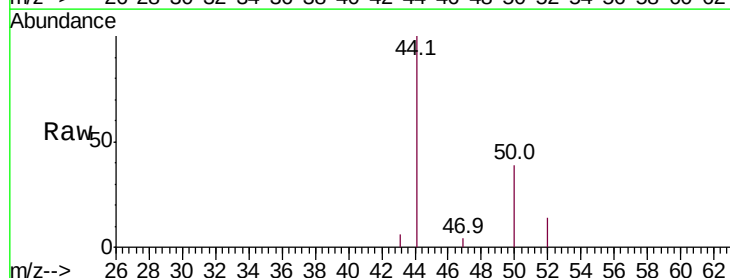
Acq: 17 Dec 2018 17:07

Tgt Ion: 50 Resp: 1448

Ion Ratio Lower Upper

50 100

52 36.8 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

1200

1000

800

600

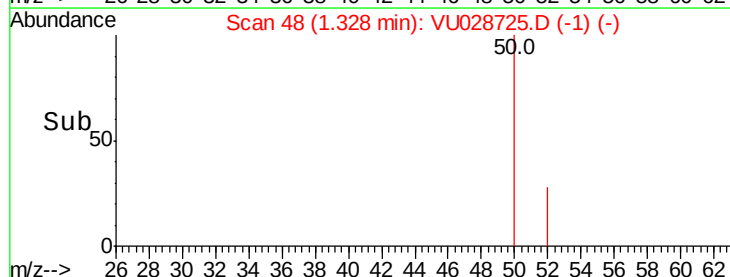
400

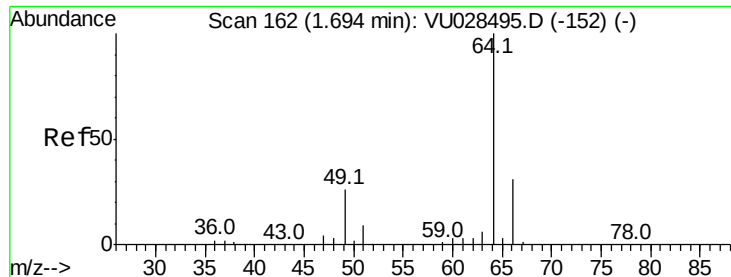
200

0

Time-->

1.30 1.35 1.40





#6

Chloroethane

Concen: 49.487 ug/l

RT: 1.50 min Scan# 103

Delta R.T. -0.19 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

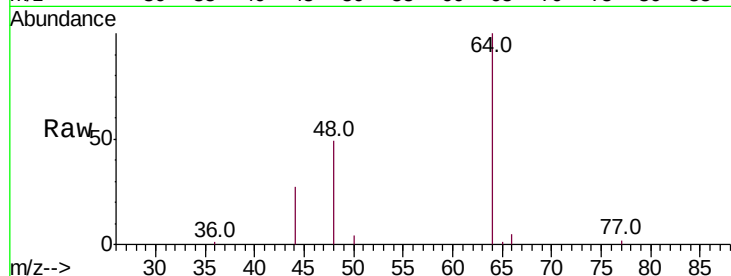
ClientSampleId :

Tot Ion: 64 Resp: 42330

Ion Ratio Lower Upper

64 100

66 6.1 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

10000

8000

6000

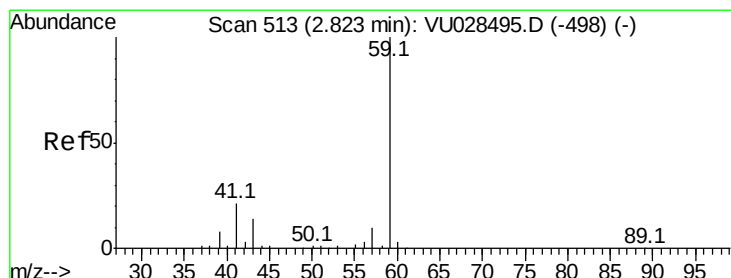
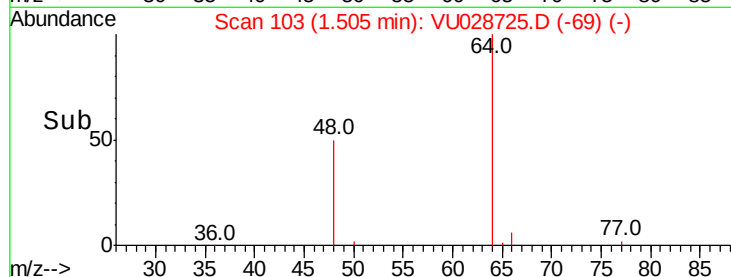
4000

2000

0

Time-->

1.35 1.40 1.45 1.50 1.55



#11

Tert butyl alcohol

Concen: 9.821 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU028725.D

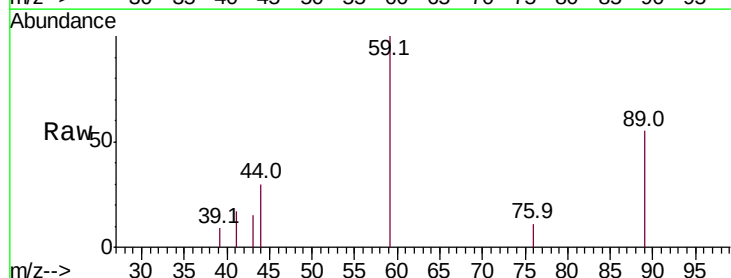
Acq: 17 Dec 2018 17:07

Tgt Ion: 59 Resp: 2837

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

1500

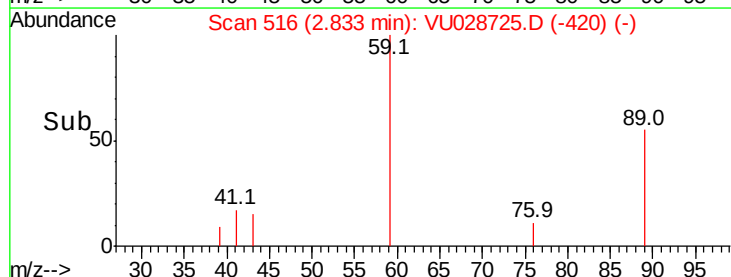
1000

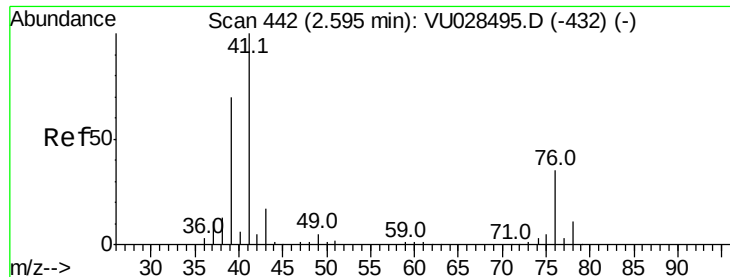
500

0

Time-->

2.80 2.85





#14

Allvl chloride

Concen: 0.254 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.11 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :  
MSVOA\_U  
ClientSampleId :

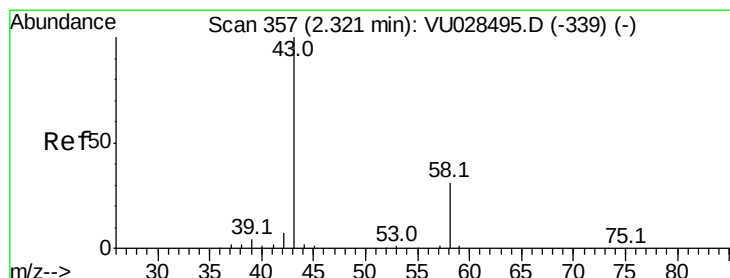
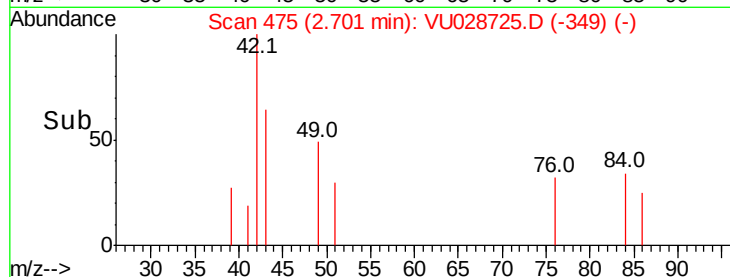
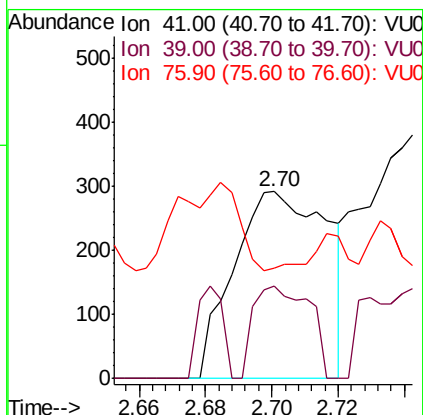
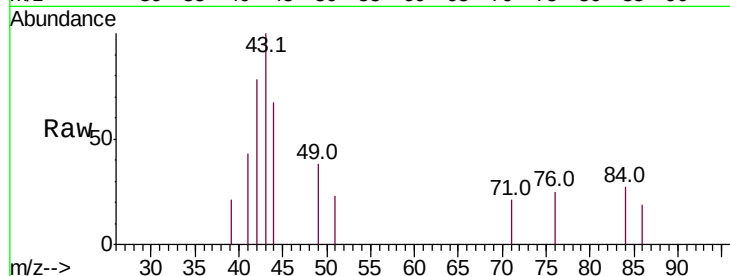
Tot Ion: 41 Resp: 569

Ion Ratio Lower Upper

41 100

39 29.7 50.8 76.2#

76 6.0 24.8 37.2#



#16

Acetone

Concen: 2.593 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028725.D

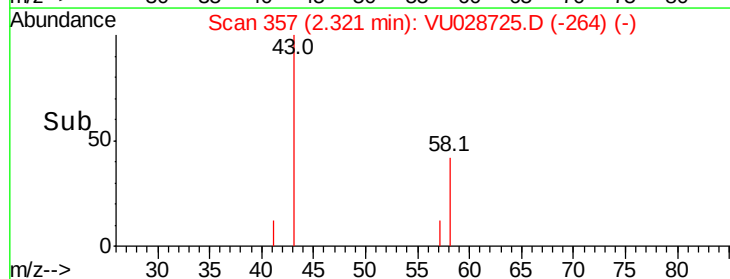
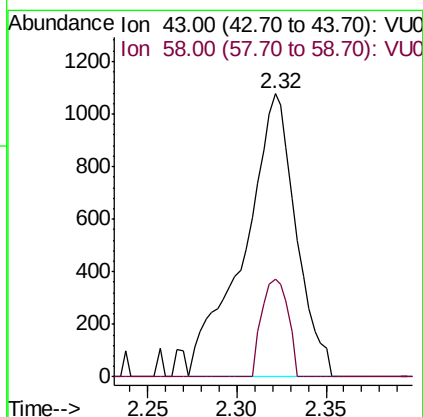
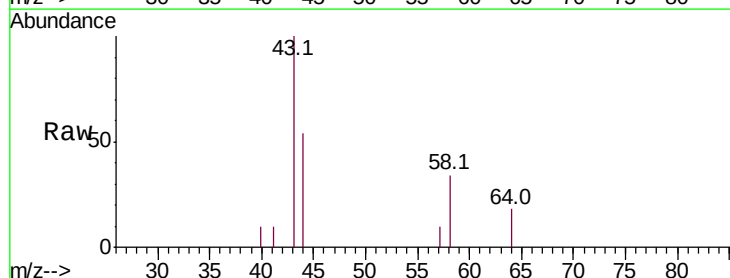
Acq: 17 Dec 2018 17:07

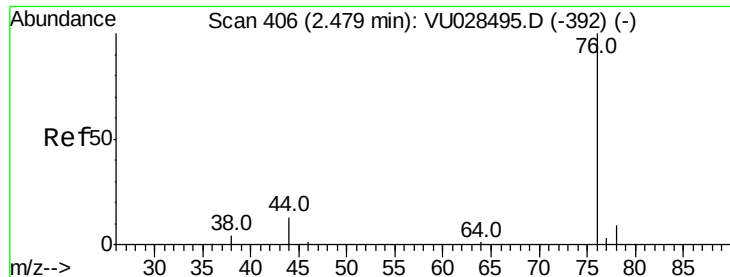
Tgt Ion: 43 Resp: 2194

Ion Ratio Lower Upper

43 100

58 34.4 24.6 37.0





#17

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

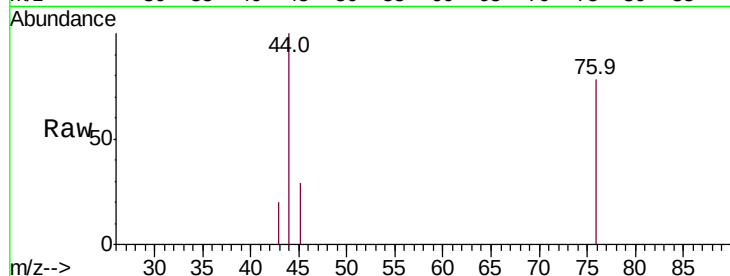
ClientSampleId :

Tot Ion: 76 Resp: 785

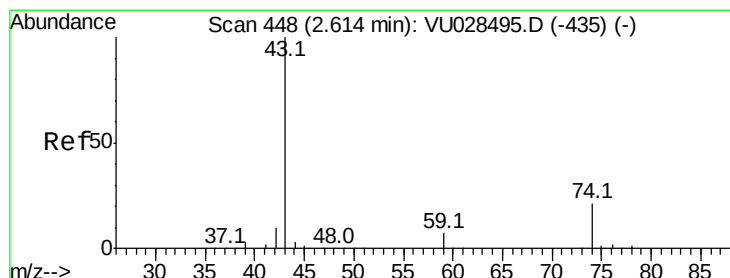
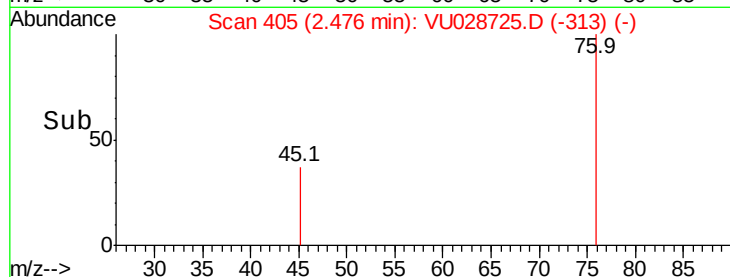
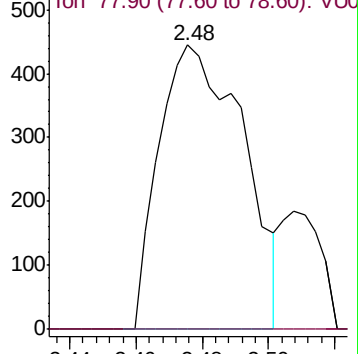
Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0



#18

Methyl Acetate

Concen: 0.540 ug/l

RT: 2.63 min Scan# 453

Delta R.T. 0.02 min

Lab File: VU028725.D

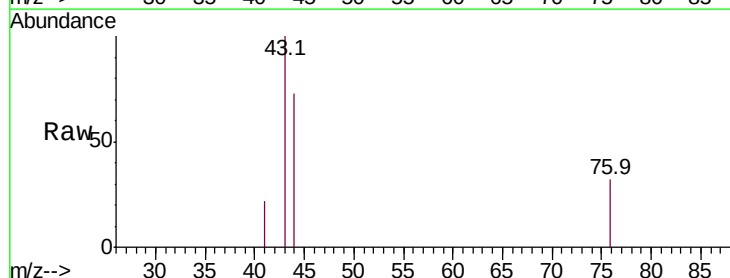
Acq: 17 Dec 2018 17:07

Tgt Ion: 43 Resp: 1184

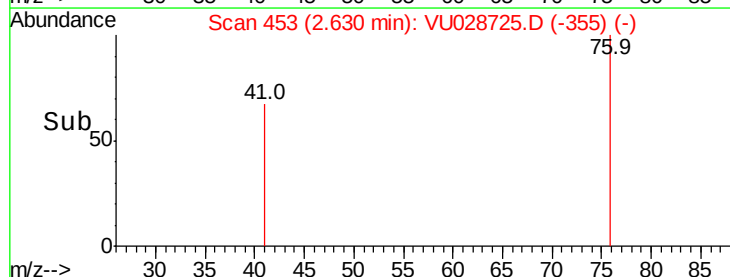
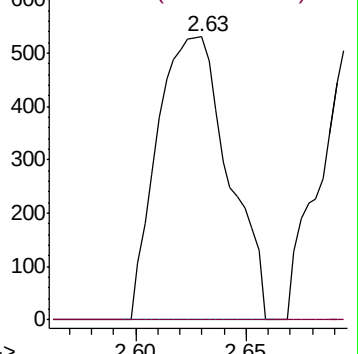
Ion Ratio Lower Upper

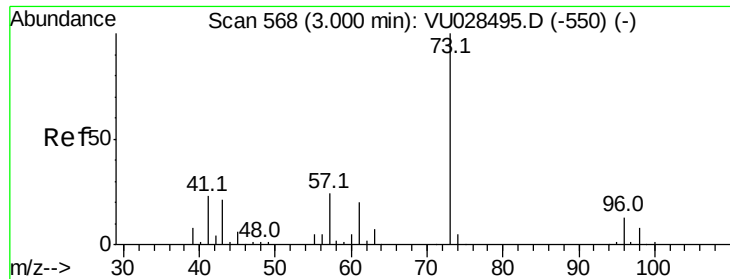
43 100

74 0.0 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

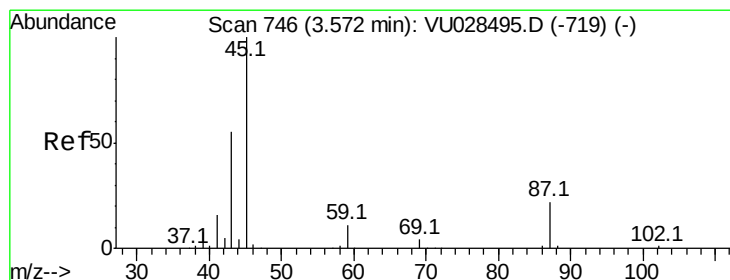
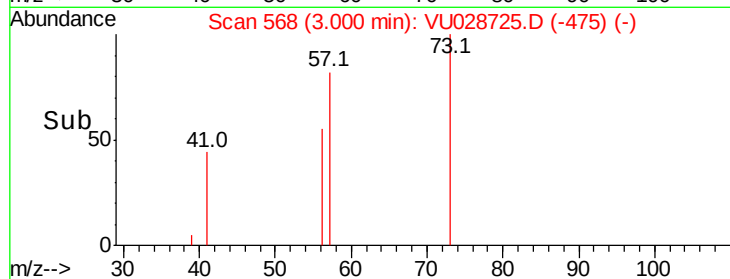
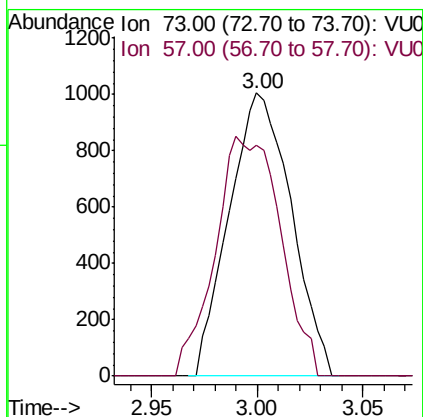
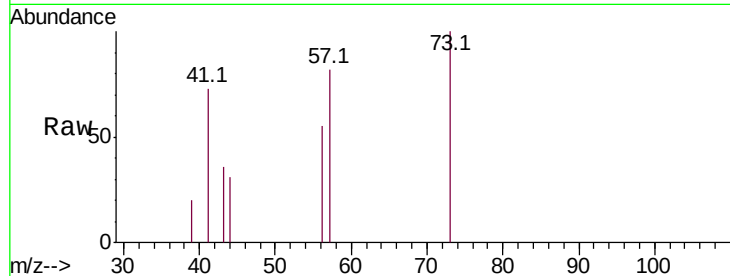




#19  
Methyl tert-butyl Ether  
Concen: 0.573 ug/l  
RT: 3.00 min Scan# 568  
Delta R.T. -0.00 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

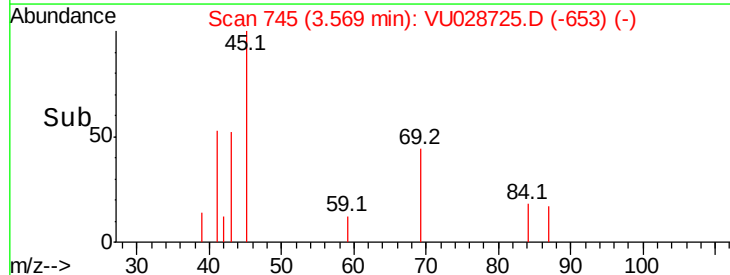
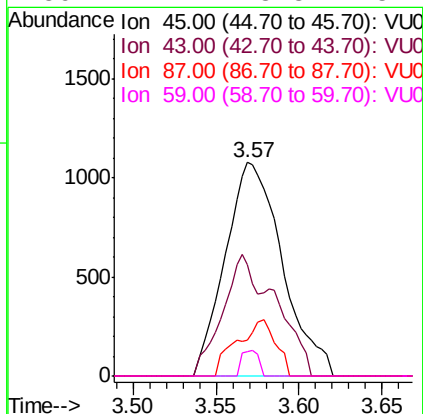
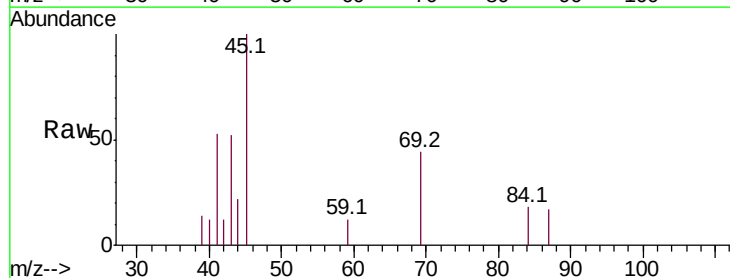
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 73 Resp: 2055  
Ion Ratio Lower Upper  
73 100  
57 81.7 19.4 29.2#

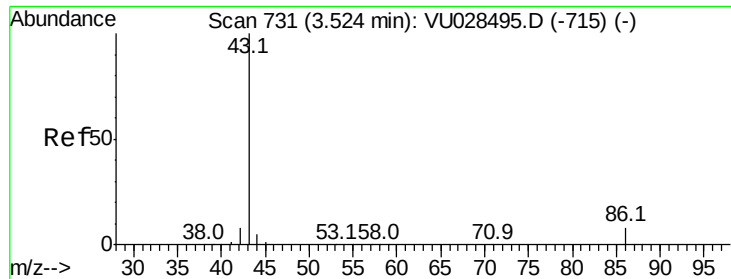


#22  
Diisopropyl ether  
Concen: 0.592 ug/l  
RT: 3.57 min Scan# 745  
Delta R.T. -0.00 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

Tgt Ion: 45 Resp: 2577  
Ion Ratio Lower Upper  
45 100  
43 51.9 45.3 67.9  
87 16.8 17.6 26.4#  
59 11.7 8.8 13.2







#23

Vinyl Acetate

Concen: 0.256 ug/l

RT: 3.57 min Scan# 744

Delta R.T. 0.04 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

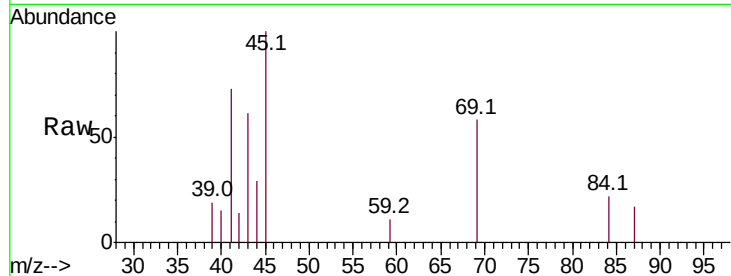
ClientSampleId :

Tot Ion: 43 Resp: 918

Ion Ratio Lower Upper

43 100

86 0.0 6.8 10.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

3.57

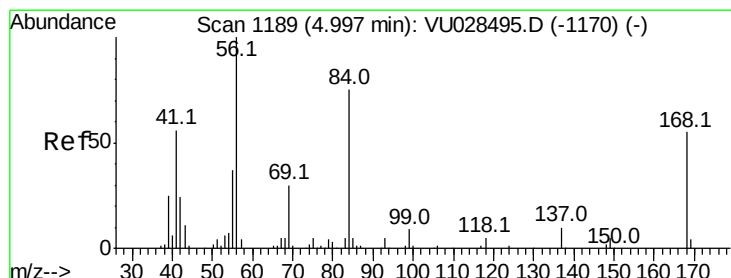
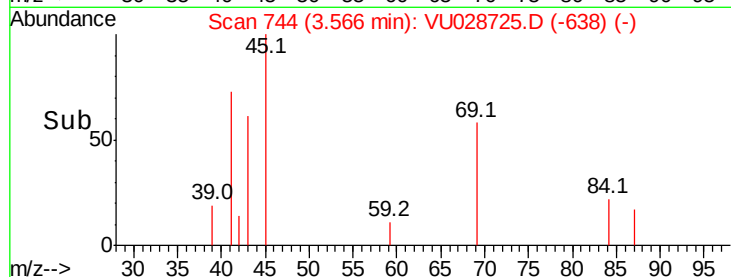
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.748 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

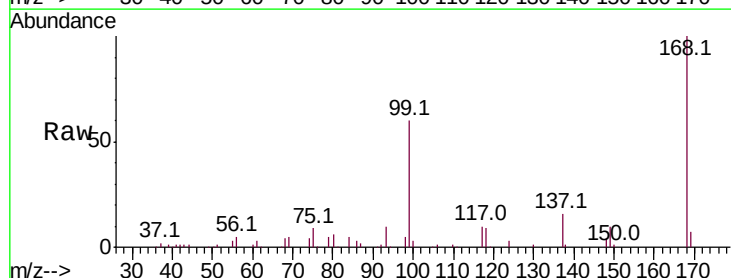
Tgt Ion: 56 Resp: 4285

Ion Ratio Lower Upper

56 100

69 97.0 24.0 36.0#

84 106.5 59.7 89.5#



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

2500

2000

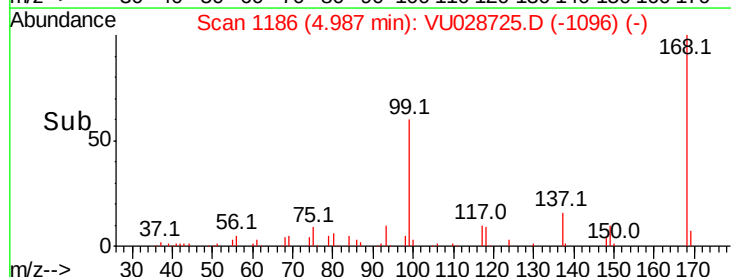
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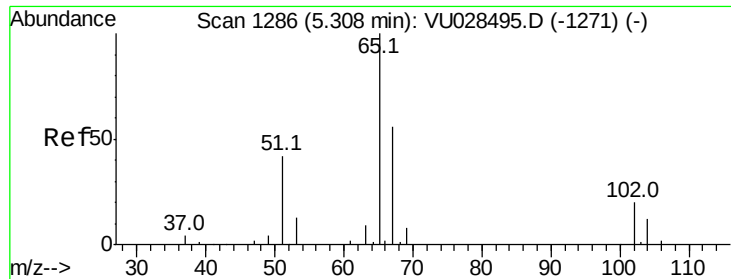
1000

500

0

Time-->

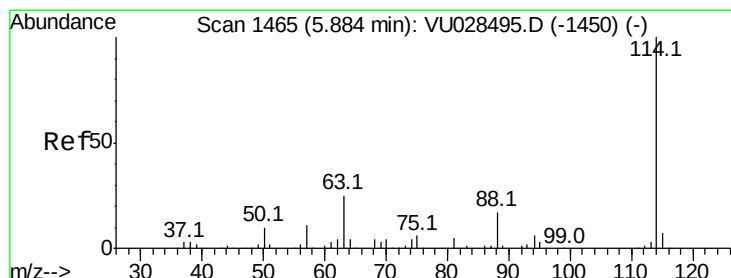
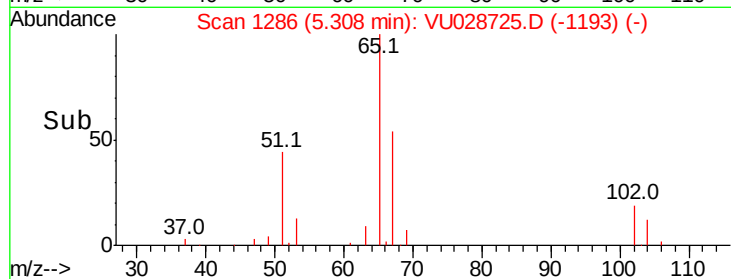
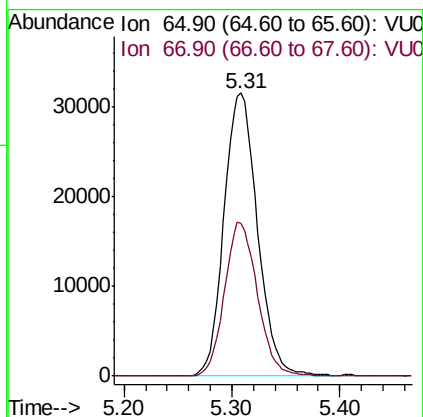
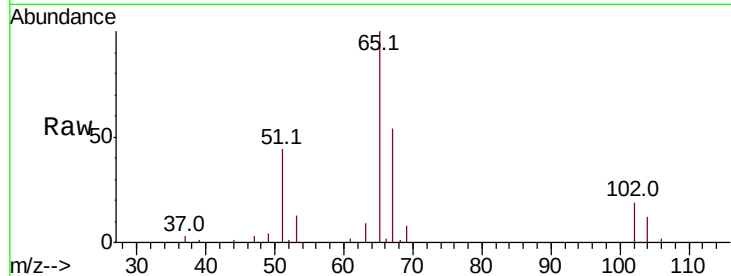




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.576 ug/l  
 RT: 5.31 min Scan# 1286  
 Delta R.T. -0.00 min  
 Lab File: VU028725.D  
 Acq: 17 Dec 2018 17:07

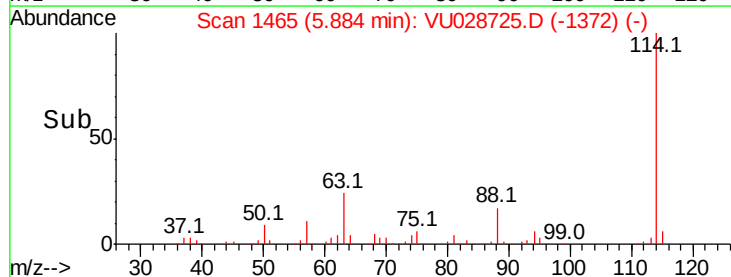
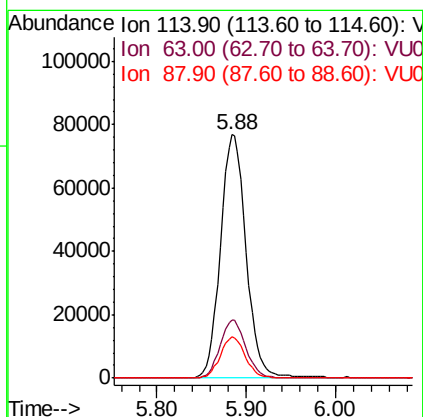
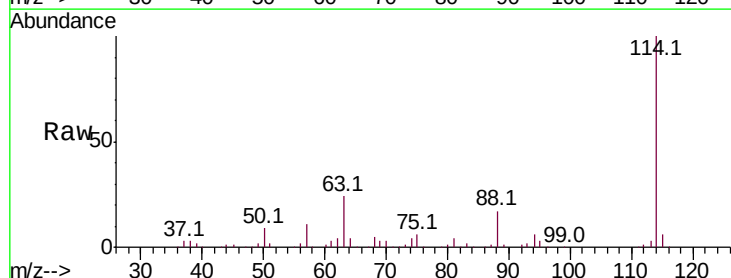
Instrument :  
 MSVOA\_U  
 ClientSampleId :

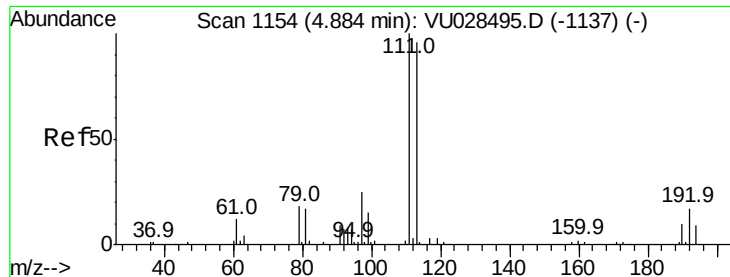
Tot Ion: 65 Resp: 68170  
 Ion Ratio Lower Upper  
 65 100  
 67 53.4 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.88 min Scan# 1465  
 Delta R.T. -0.00 min  
 Lab File: VU028725.D  
 Acq: 17 Dec 2018 17:07

Tgt Ion:114 Resp: 152936  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 0.0 49.2  
 88 16.8 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.953 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :  
MSVOA\_U  
ClientSampleId :

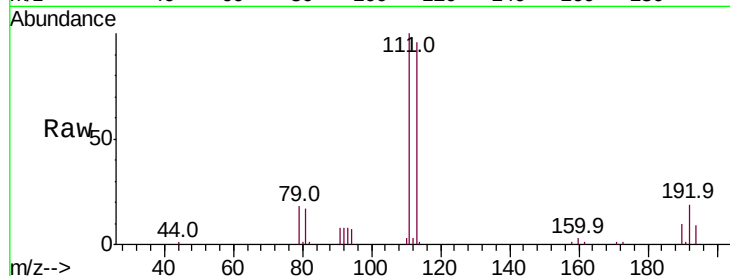
Tot Ion:113 Resp: 50964

Ion Ratio Lower Upper

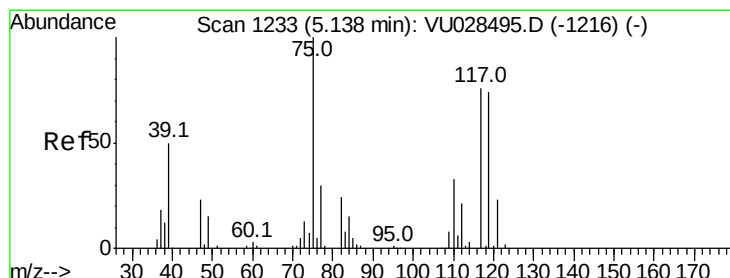
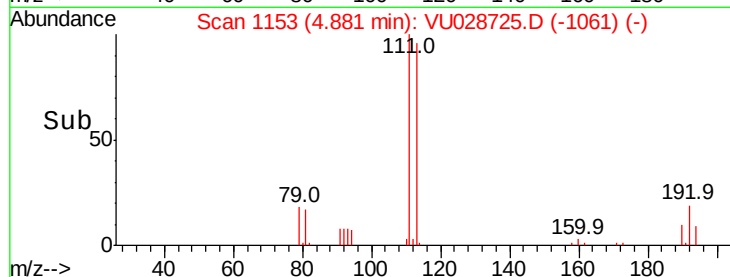
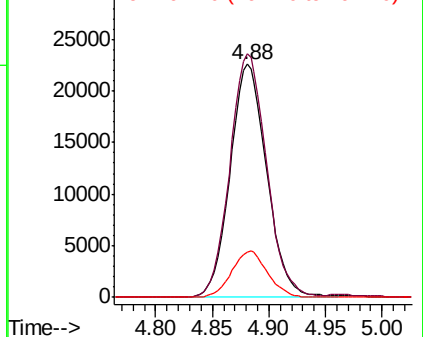
113 100

111 104.6 83.4 125.0

192 19.4 14.8 22.2



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: 4.471 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

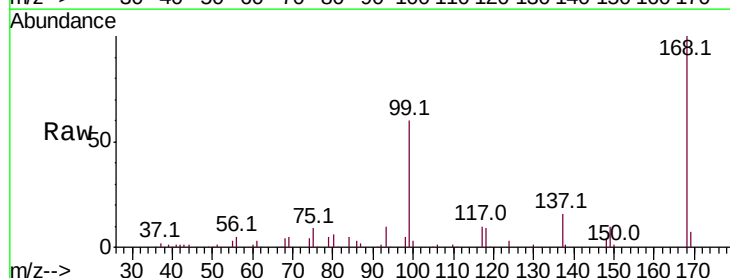
Tgt Ion: 75 Resp: 7482

Ion Ratio Lower Upper

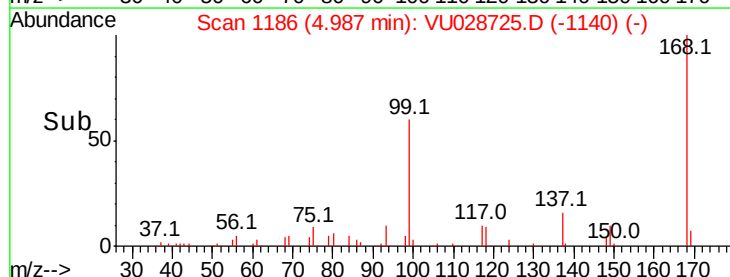
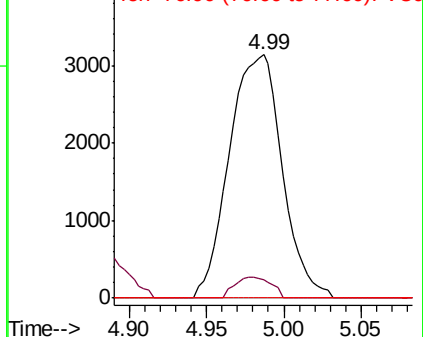
75 100

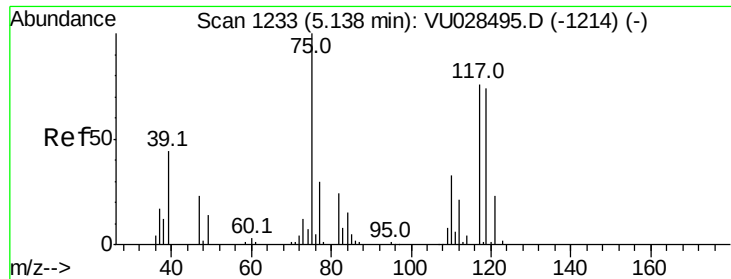
110 5.8 16.1 48.2#

77 0.0 24.5 36.7#



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: 6.241 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :  
MSVOA\_U  
ClientSampleId :

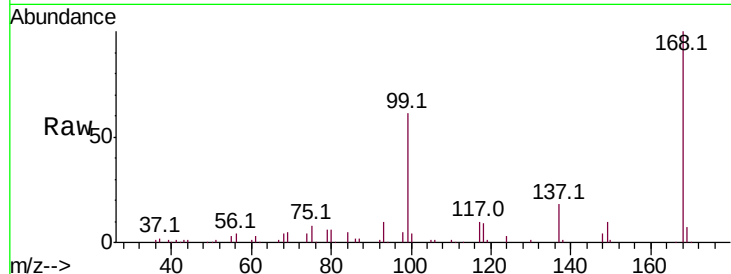
Tot Ion:117 Resp: 8419

Ion Ratio Lower Upper

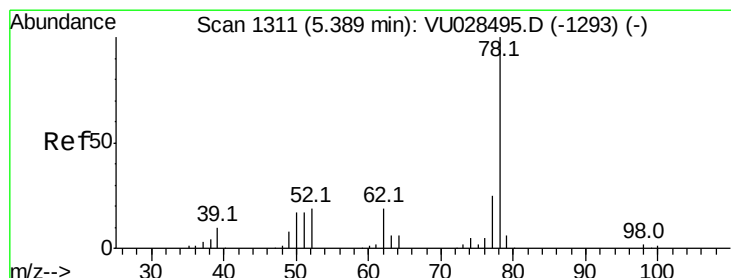
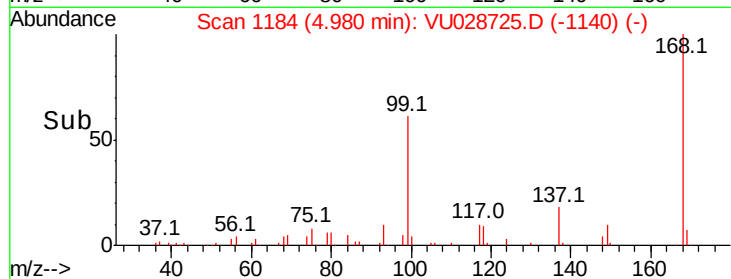
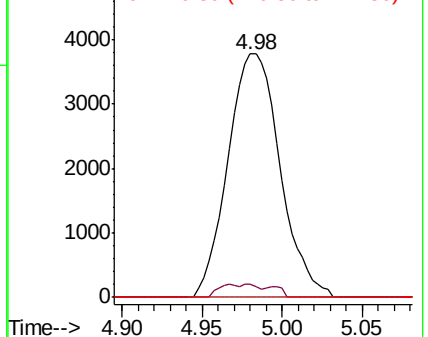
117 100

119 5.4 77.6 116.4#

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



#40

Benzene

Concen: 7.454 ug/l

RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

Lab File: VU028725.D

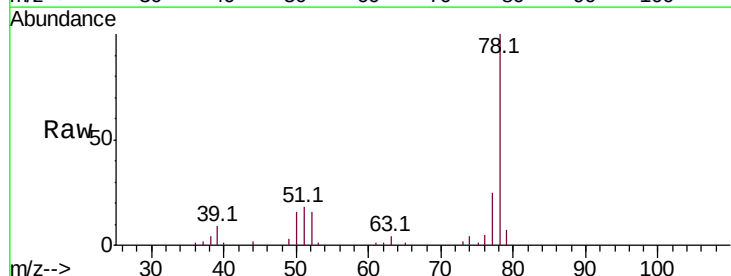
Acq: 17 Dec 2018 17:07

Tgt Ion: 78 Resp: 36741

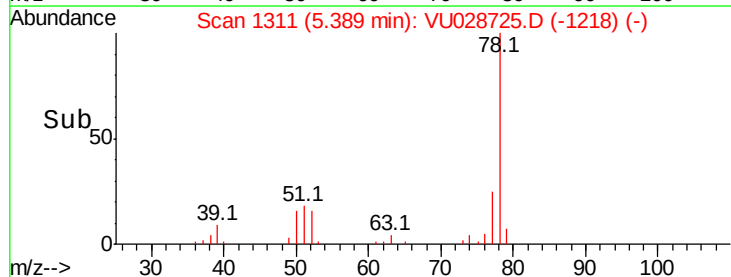
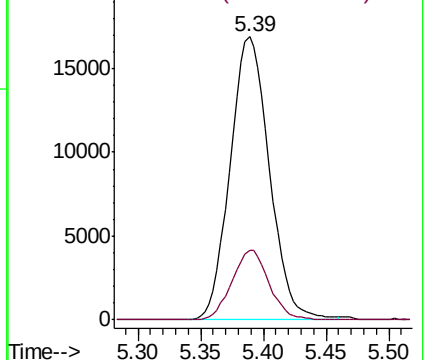
Ion Ratio Lower Upper

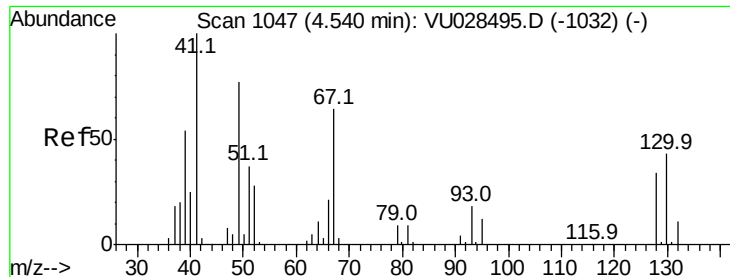
78 100

77 24.8 19.9 29.9



Abundance Ion 78.00 (77.70 to 78.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0

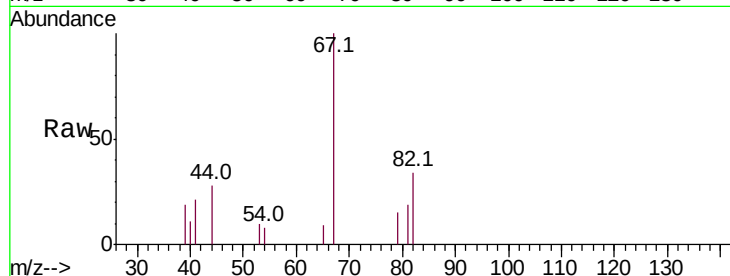




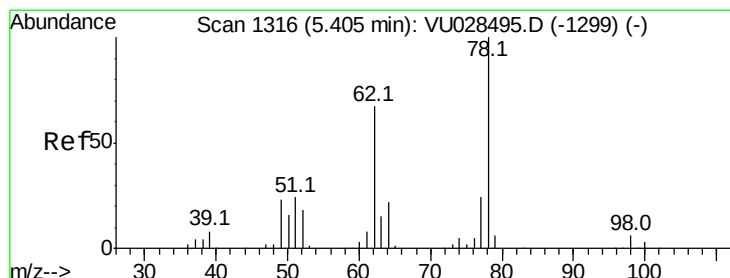
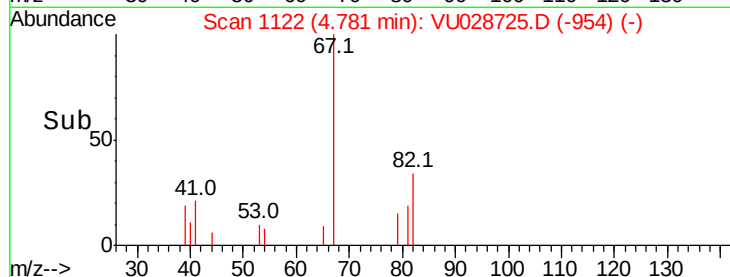
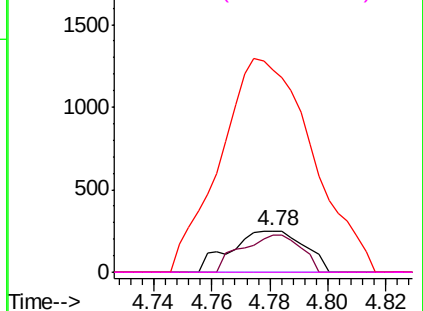
#41  
Methacrylonitrile  
Concen: 0.376 ug/l  
RT: 4.78 min Scan# 1122  
Delta R.T. 0.24 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 41 Resp: 445  
Ion Ratio Lower Upper  
41 100  
39 72.8 43.3 64.9#  
67 639.6 53.6 80.4#  
52 0.0 22.1 33.1#

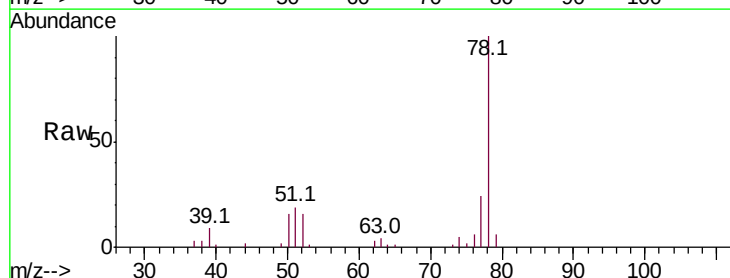


Abundance Ion 41.00 (40.70 to 41.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0  
Ion 67.00 (66.70 to 67.70): VU0  
Ion 52.00 (51.70 to 52.70): VU0

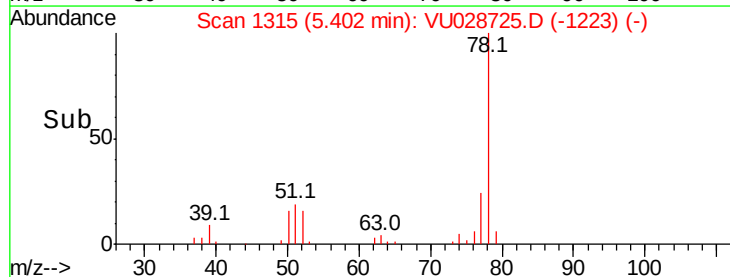
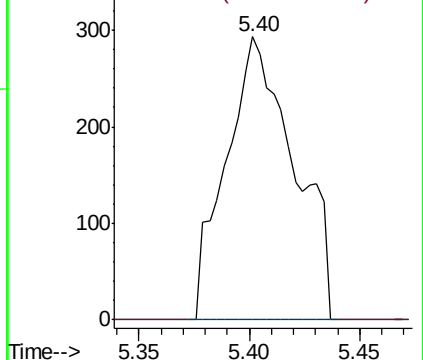


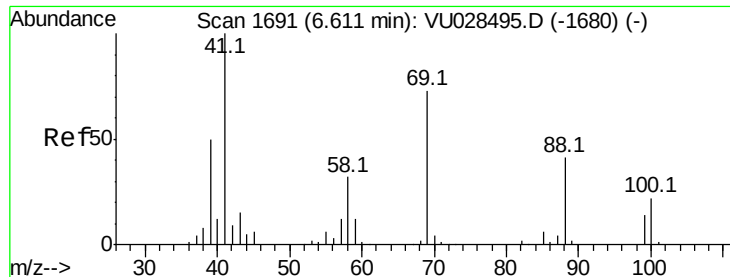
#42  
1,2-Dichloroethane  
Concen: 0.365 ug/l  
RT: 5.40 min Scan# 1315  
Delta R.T. -0.00 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

Tgt Ion: 62 Resp: 629  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VU0  
Ion 97.90 (97.60 to 98.60): VU0





#49

1,4-Dioxane

Concen: 8.299 ug/l

RT: 6.62 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :  
MSVOA\_U  
ClientSampled :

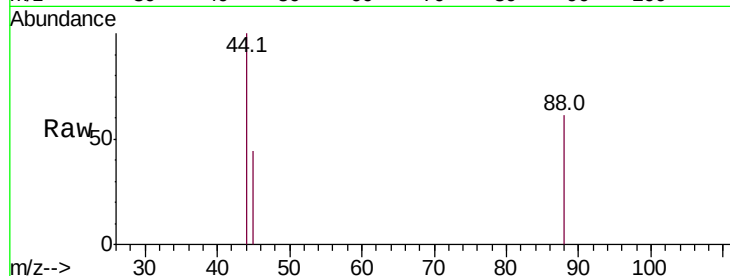
Tot Ion: 88 Resp: 223

Ion Ratio Lower Upper

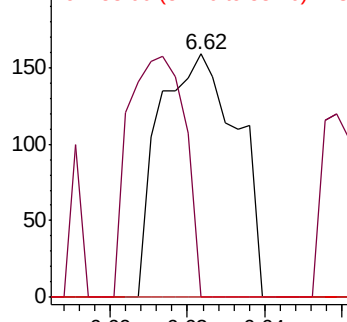
88 100

43 71.3 30.9 46.3#

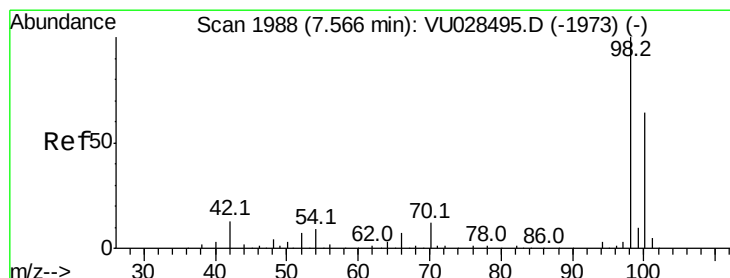
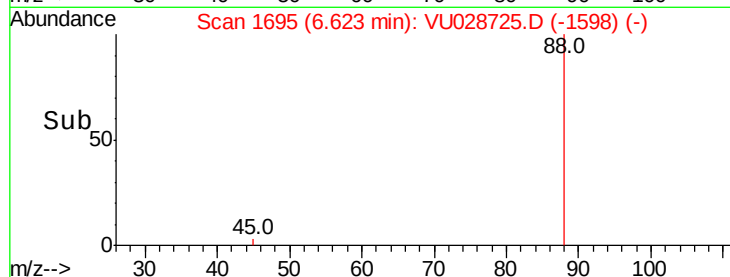
58 0.0 62.4 93.6#



Abundance Ion 88.00 (87.70 to 88.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0



Time-->



#50

Toluene-d8

Concen: 50.941 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028725.D

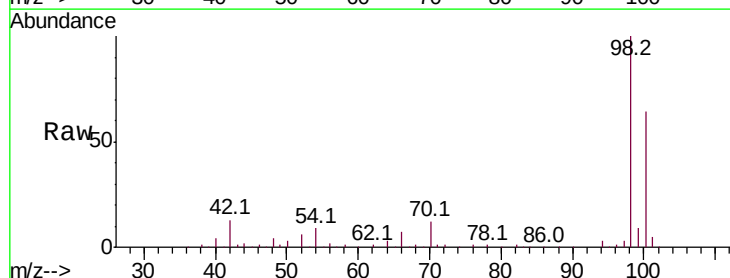
Acq: 17 Dec 2018 17:07

Tgt Ion: 98 Resp: 193943

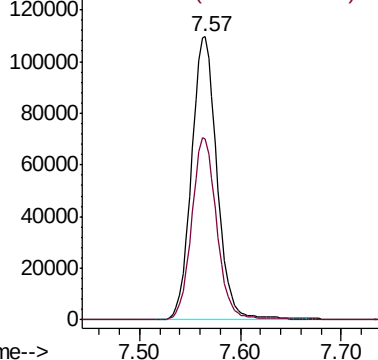
Ion Ratio Lower Upper

98 100

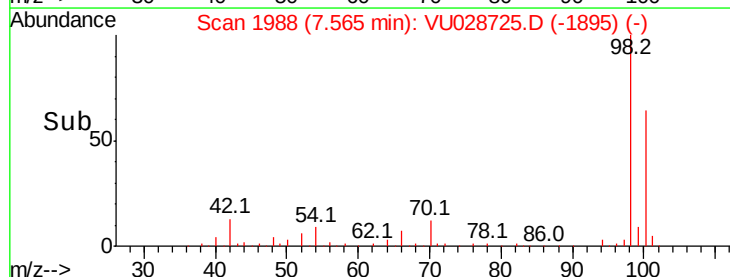
100 63.2 51.0 76.6

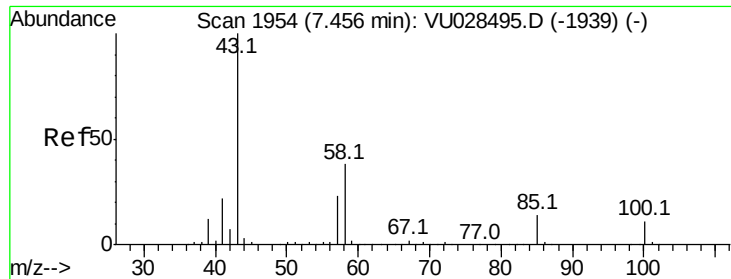


Abundance Ion 98.00 (97.70 to 98.70): VU0  
Ion 100.00 (99.70 to 100.70): VU0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.262 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.01 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

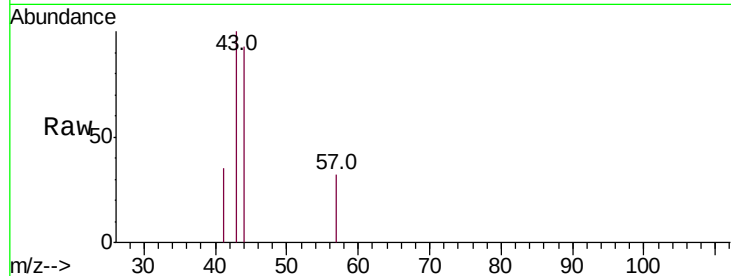
ClientSampleId :

Tot Ion: 43 Resp: 566

Ion Ratio Lower Upper

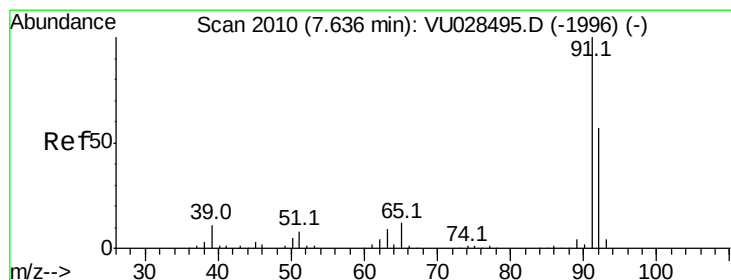
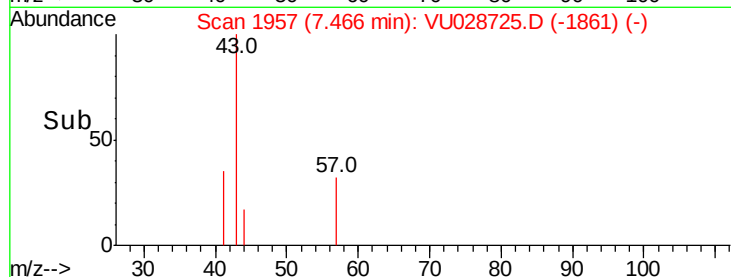
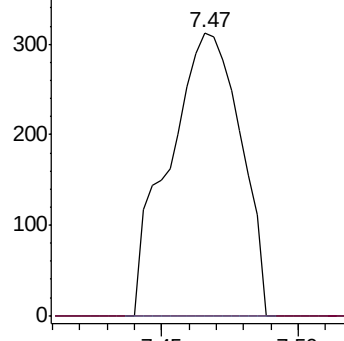
43 100

58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 1.875 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028725.D

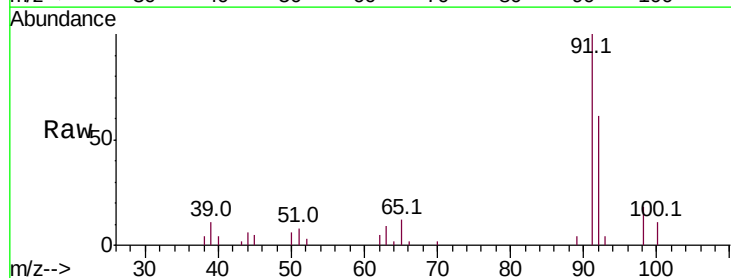
Acq: 17 Dec 2018 17:07

Tgt Ion: 92 Resp: 5439

Ion Ratio Lower Upper

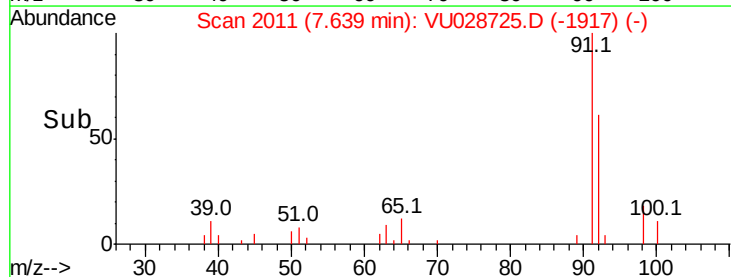
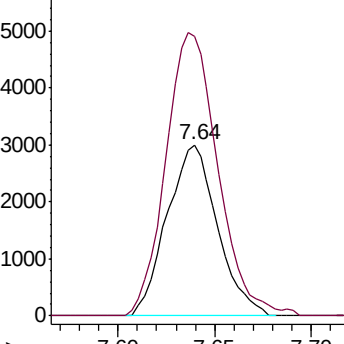
92 100

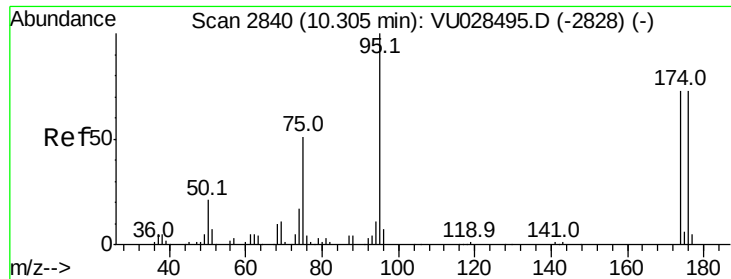
91 171.1 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





#62

4-Bromofluorobenzene

Concen: 44.180 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

ClientSampled :

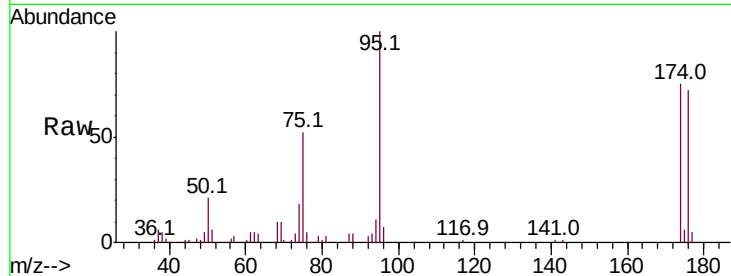
Tot Ion: 95 Resp: 62869

Ion Ratio Lower Upper

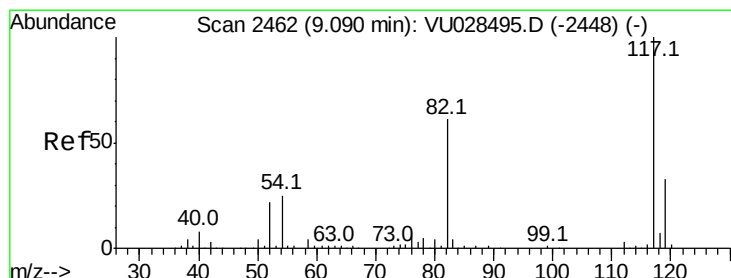
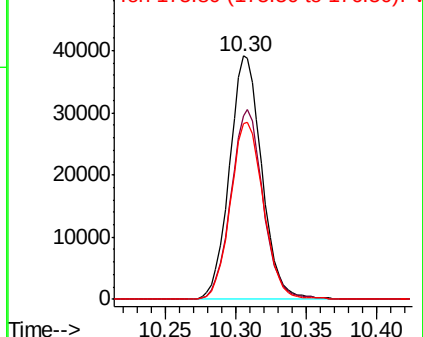
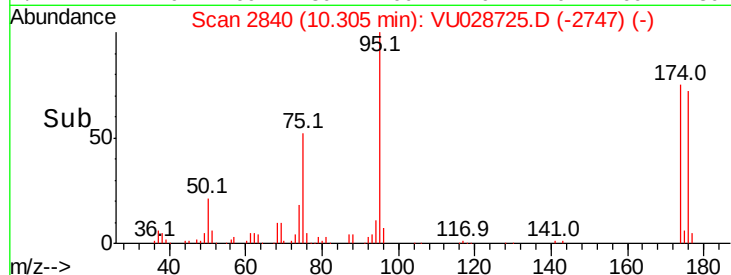
95 100

174 77.3 0.0 150.4

176 74.5 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU028725.D (-2747) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

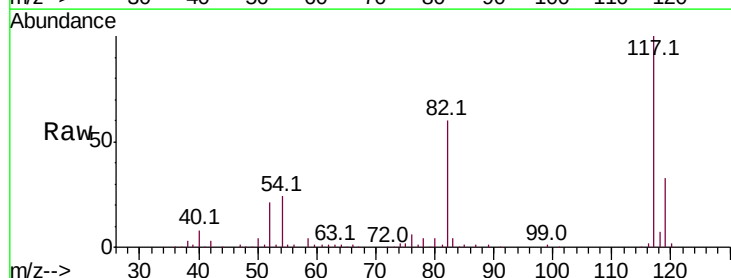
Tgt Ion: 117 Resp: 134480

Ion Ratio Lower Upper

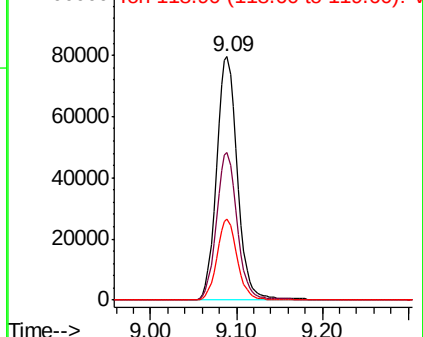
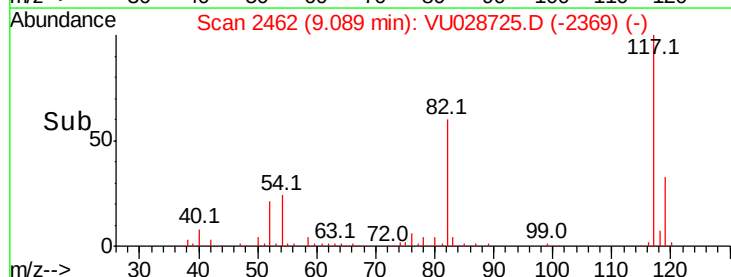
117 100

82 60.4 48.9 73.3

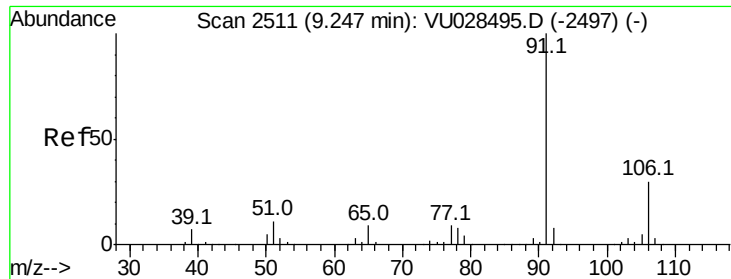
119 33.1 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VU028725.D (-2369) (-)



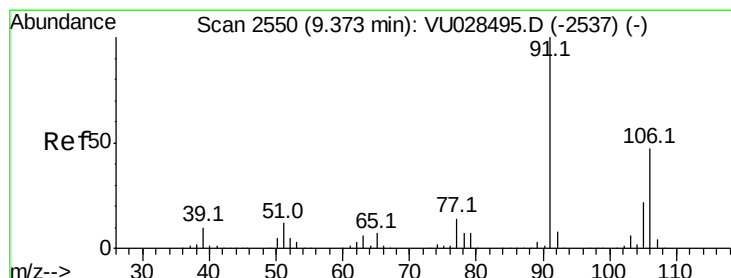
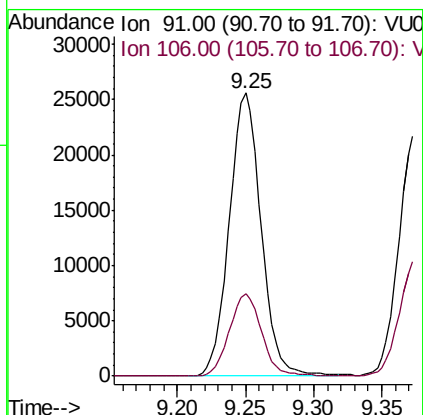
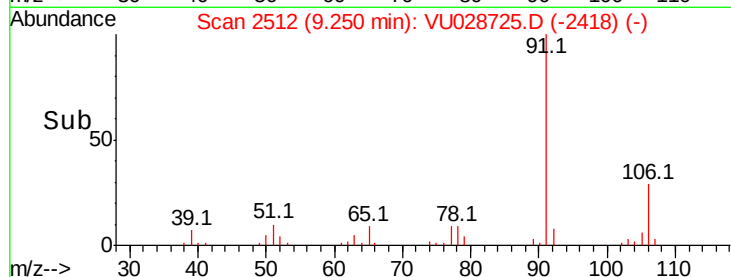
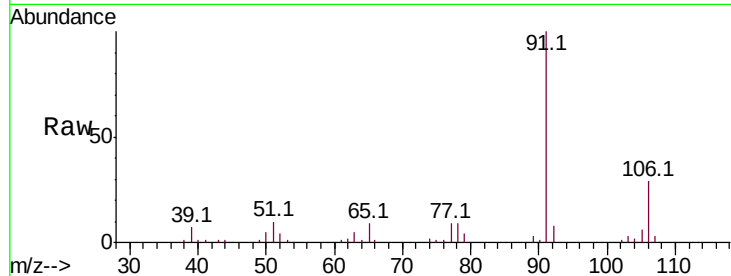




#67  
Ethyl Benzene  
Concen: 7.884 ug/l  
RT: 9.25 min Scan# 2512  
Delta R.T. 0.00 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

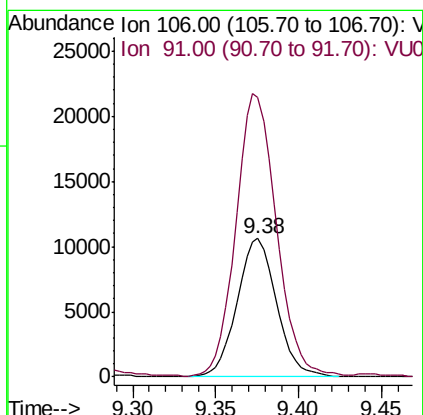
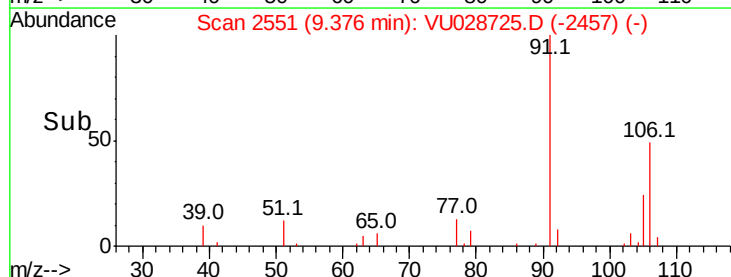
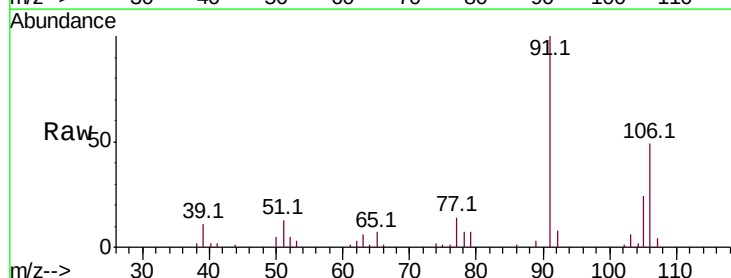
Instrument :  
MSVOA\_U  
ClientSampled :

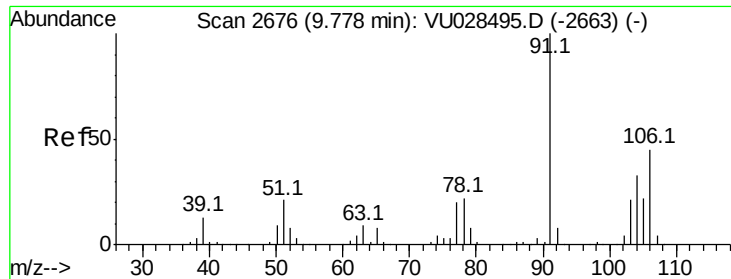
Tot Ion: 91 Resp: 41534  
Ion Ratio Lower Upper  
91 100  
106 28.9 24.1 36.1



#68  
m/p-Xylenes  
Concen: 9.185 ug/l  
RT: 9.38 min Scan# 2551  
Delta R.T. 0.00 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

Tgt Ion: 106 Resp: 17606  
Ion Ratio Lower Upper  
106 100  
91 210.5 167.4 251.0

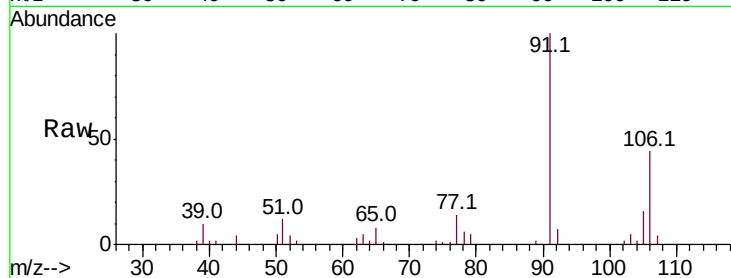




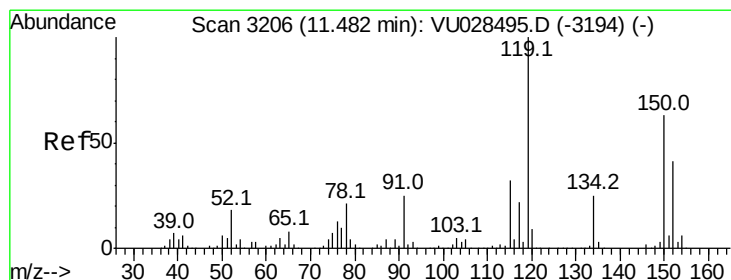
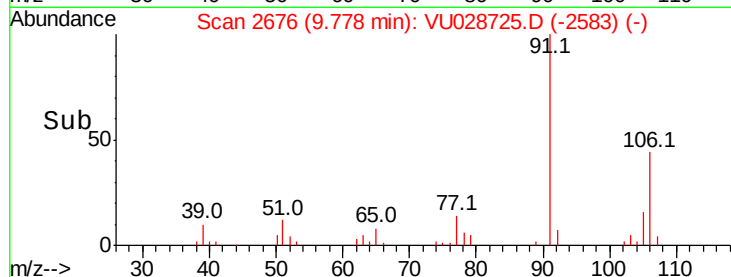
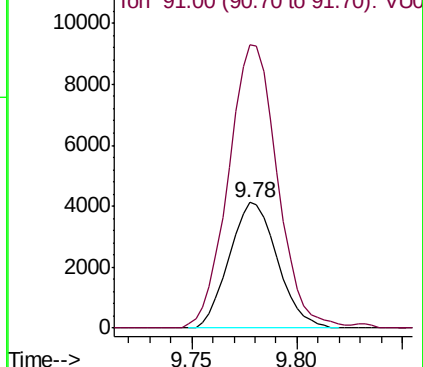
#69  
o-Xylene  
Concen: 3.503 ug/l  
RT: 9.78 min Scan# 2676  
Delta R.T. -0.00 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:106 Resp: 6526  
Ion Ratio Lower Upper  
106 100  
91 229.7 111.3 334.0

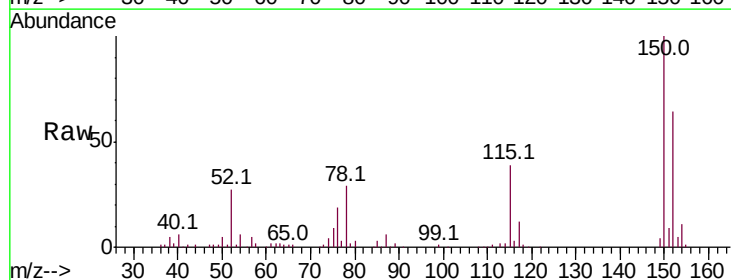


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

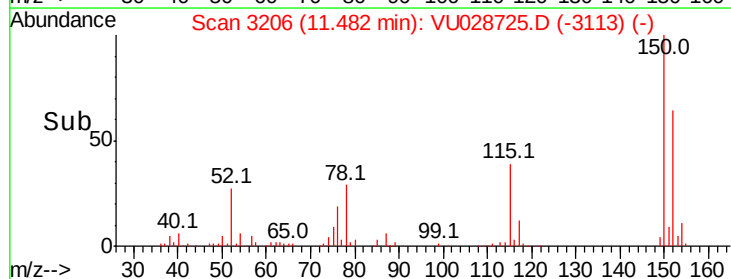
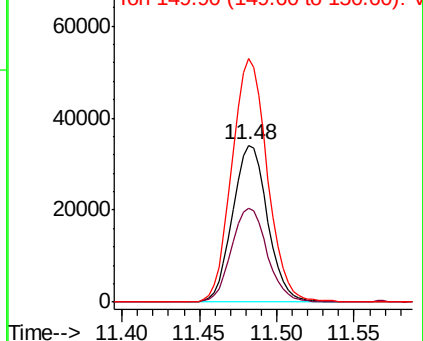


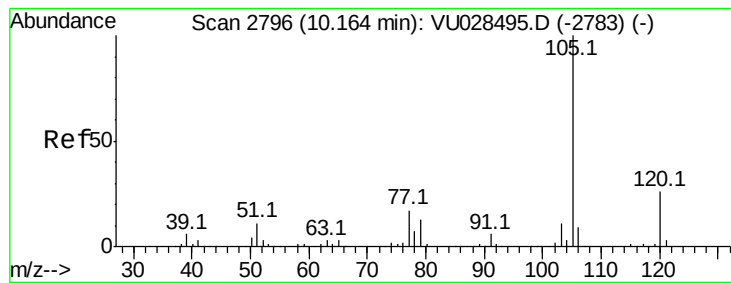
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3206  
Delta R.T. -0.00 min  
Lab File: VU028725.D  
Acq: 17 Dec 2018 17:07

Tgt Ion:152 Resp: 53572  
Ion Ratio Lower Upper  
152 100  
115 61.2 42.7 128.1  
150 157.6 0.0 346.0



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





#73

Isopropylbenzene

Concen: 0.703 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

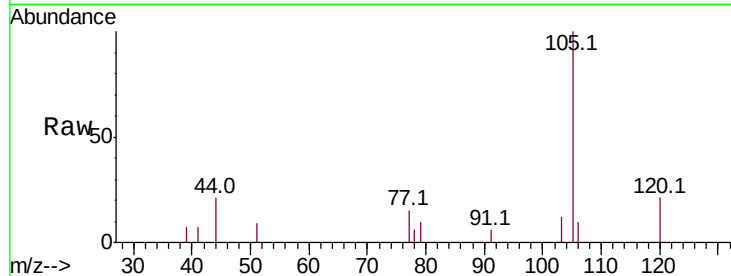
ClientSampleId :

Tot Ion:105 Resp: 2889

Ion Ratio Lower Upper

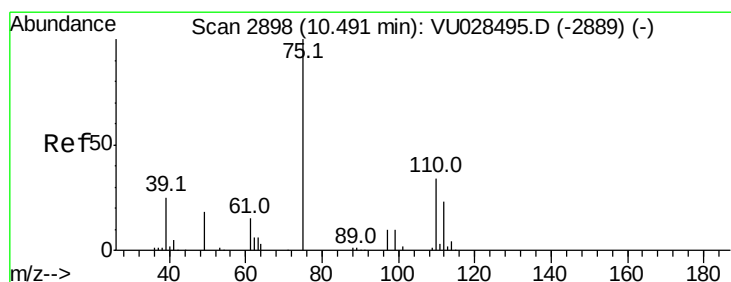
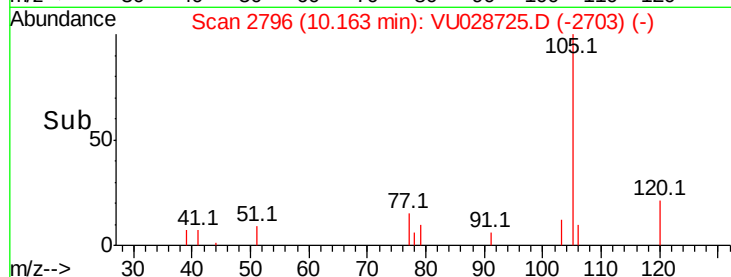
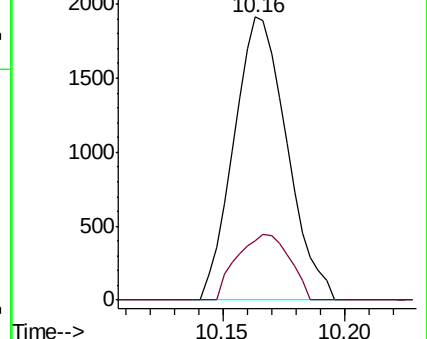
105 100

120 23.0 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 23.998 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028725.D

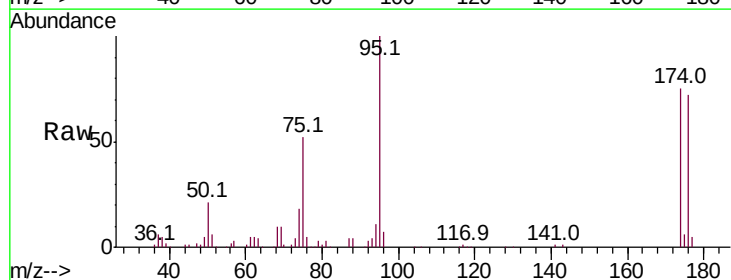
Acq: 17 Dec 2018 17:07

Tgt Ion: 75 Resp: 32829

Ion Ratio Lower Upper

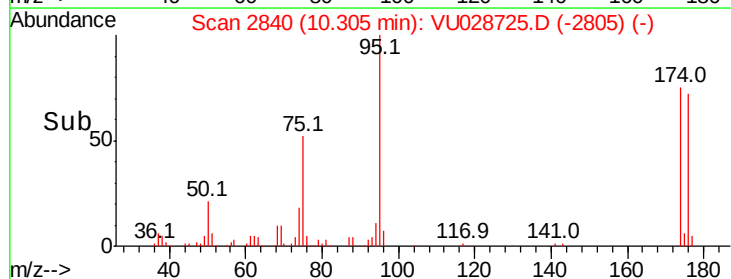
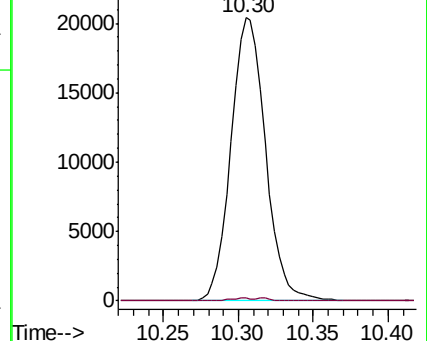
75 100

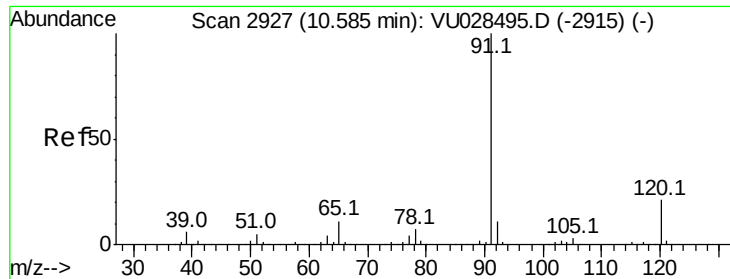
77 0.7 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#78

n-propylbenzene

Concen: 0.572 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

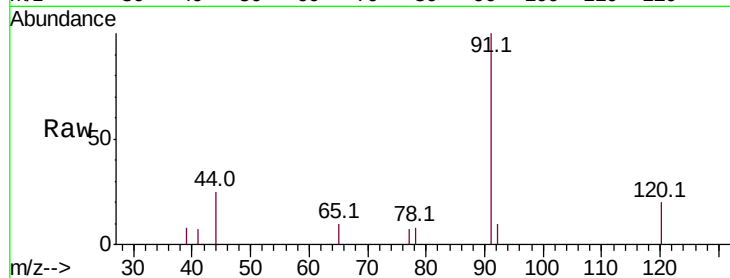
ClientSampleId :

Tot Ion: 91 Resp: 2924

Ion Ratio Lower Upper

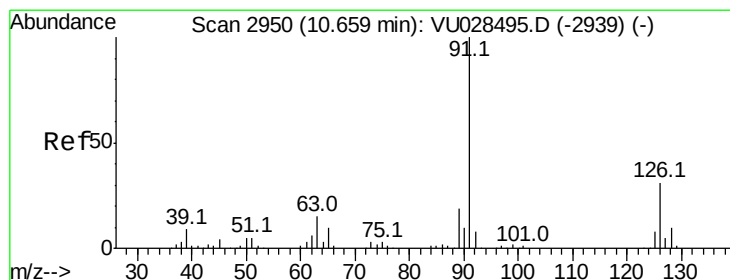
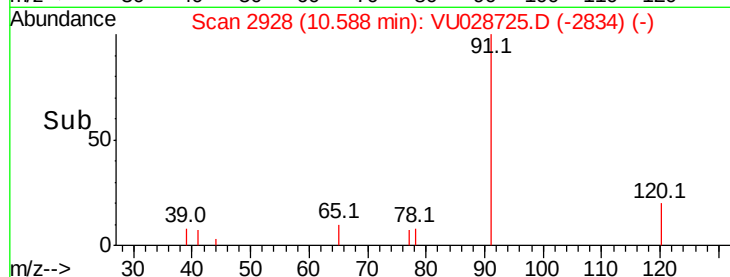
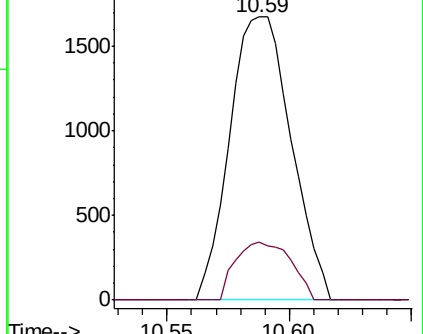
91 100

120 18.5 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.306 ug/l

RT: 10.68 min Scan# 2957

Delta R.T. 0.02 min

Lab File: VU028725.D

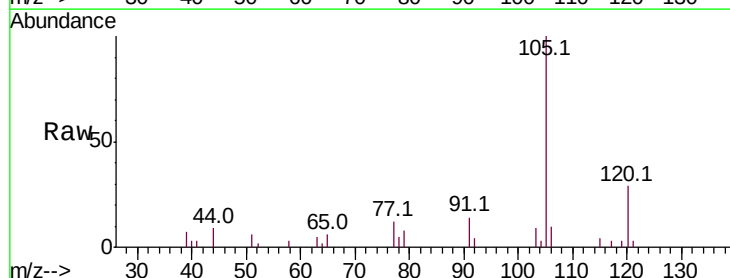
Acq: 17 Dec 2018 17:07

Tgt Ion: 91 Resp: 900

Ion Ratio Lower Upper

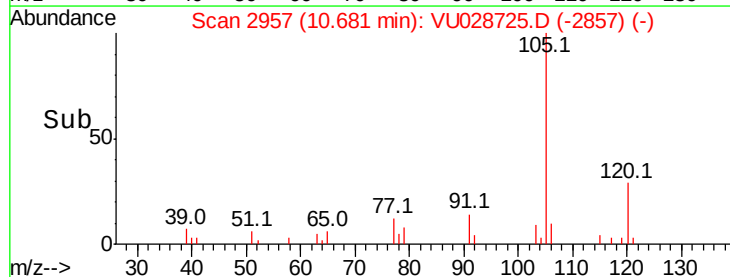
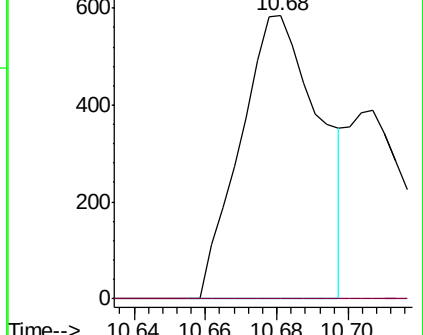
91 100

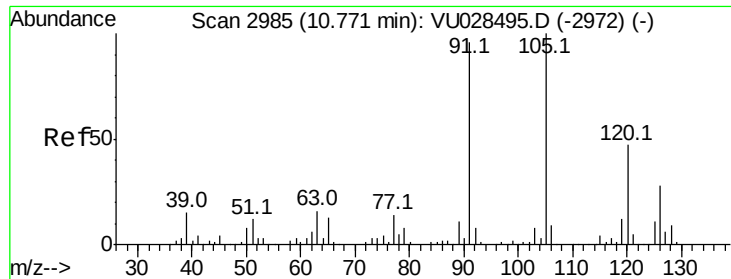
126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

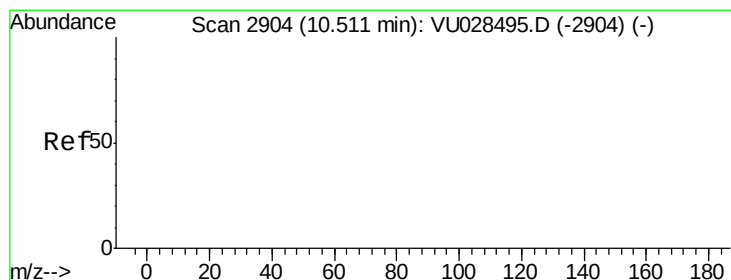
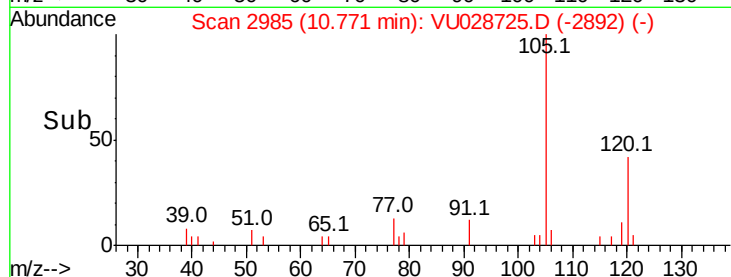
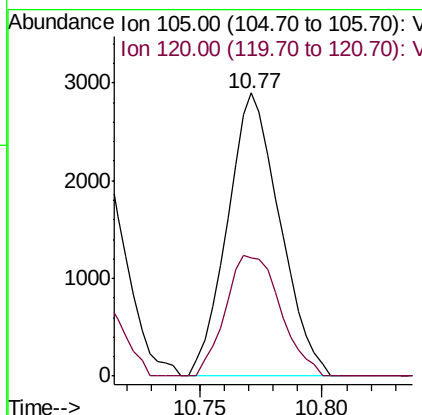
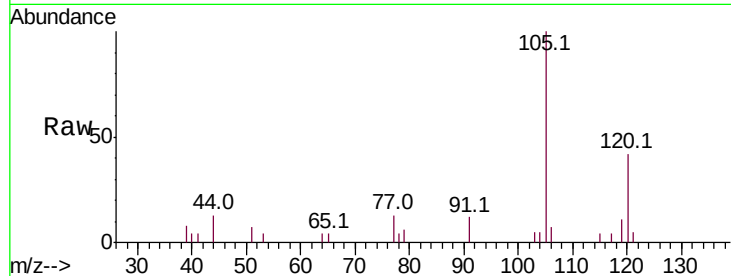




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.271 ug/l  
 RT: 10.77 min Scan# 2985  
 Delta R.T. -0.00 min  
 Lab File: VU028725.D  
 Acq: 17 Dec 2018 17:07

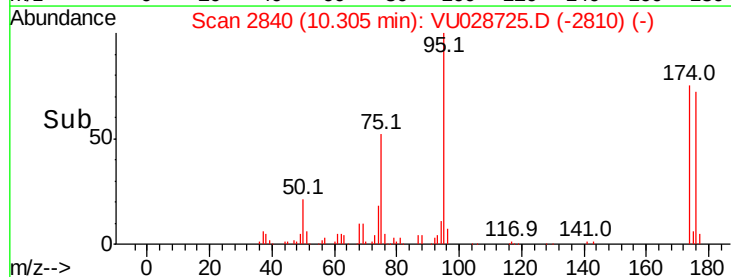
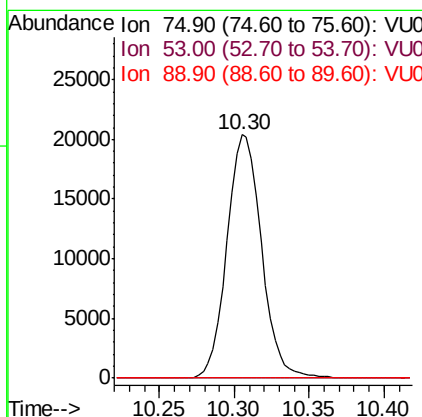
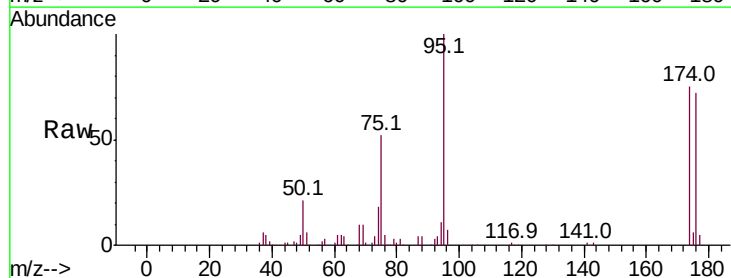
Instrument :  
 MSVOA\_U  
 ClientSampleId :

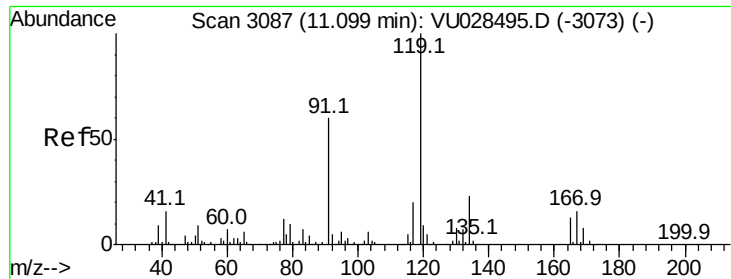
Tot Ion:105 Resp: 4325  
 Ion Ratio Lower Upper  
 105 100  
 120 44.5 23.7 71.1



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 58.910 ug/l  
 RT: 10.30 min Scan# 2840  
 Delta R.T. -0.21 min  
 Lab File: VU028725.D  
 Acq: 17 Dec 2018 17:07

Tgt Ion: 75 Resp: 32829  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 0.0 0.0  
 89 0.0 0.0 0.0





#83

tert-Butylbenzene

Concen: 0.706 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. 0.05 min

Lab File: VU028725.D

Acq: 17 Dec 2018 17:07

Instrument :

MSVOA\_U

ClientSampleId :

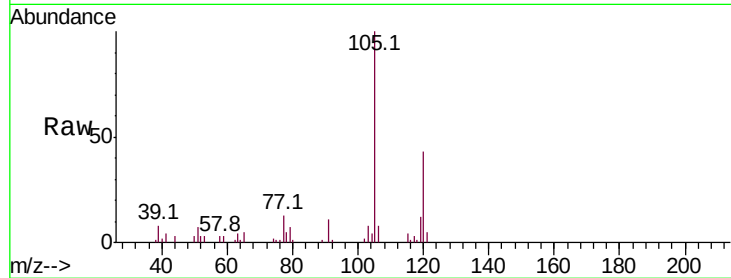
Tot Ion:119 Resp: 2314

Ion Ratio Lower Upper

119 100

91 91.3 30.3 91.0#

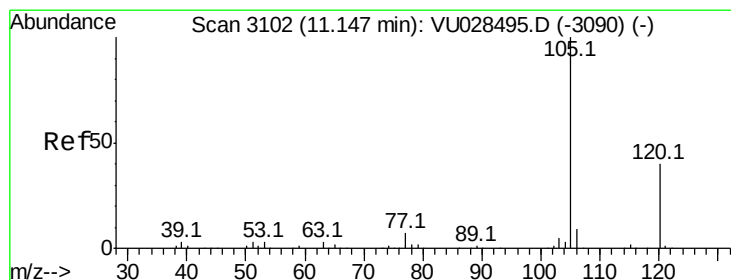
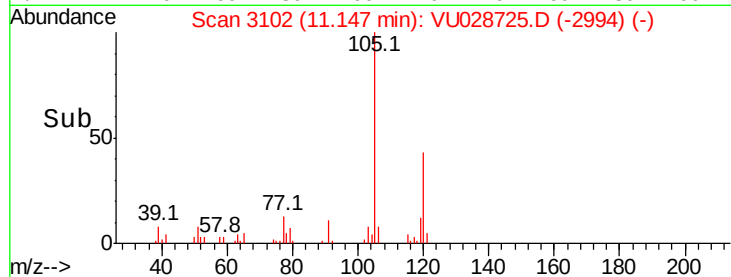
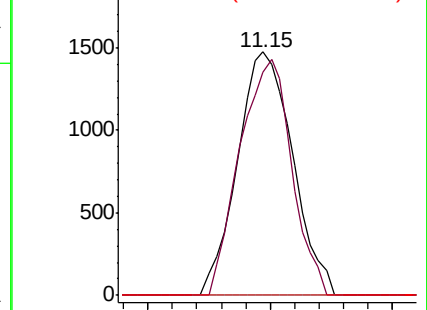
134 0.0 11.2 33.5#



Abundance Ion 119.00 (118.70 to 119.70): V

2000 Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 5.551 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. -0.00 min

Lab File: VU028725.D

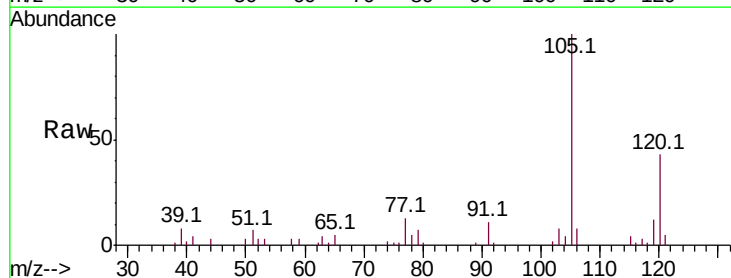
Acq: 17 Dec 2018 17:07

Tgt Ion:105 Resp: 19467

Ion Ratio Lower Upper

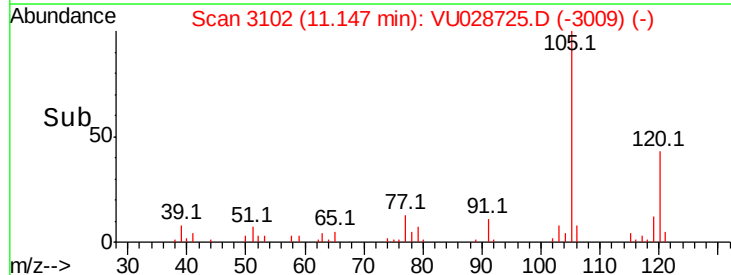
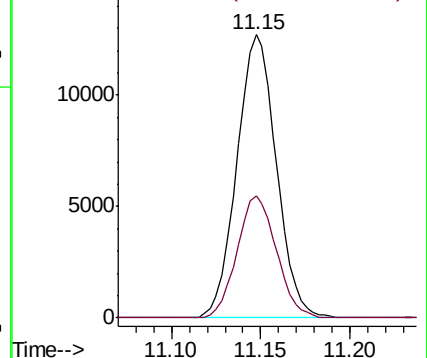
105 100

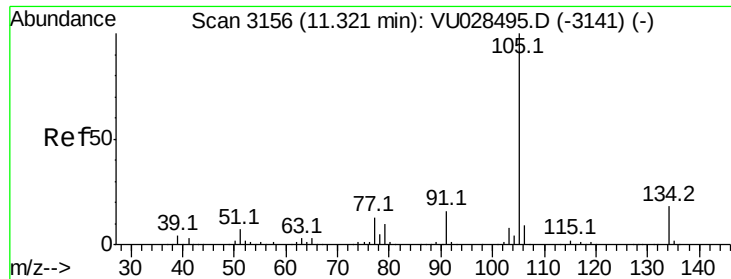
120 42.9 21.8 65.4



Abundance Ion 105.00 (104.70 to 105.70): V

15000 Ion 120.00 (119.70 to 120.70): V

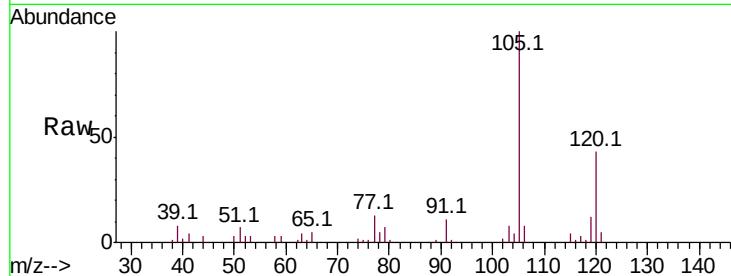




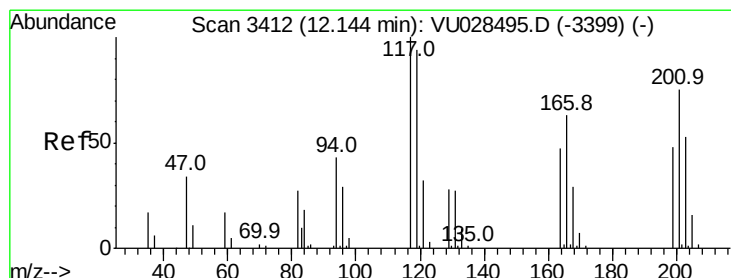
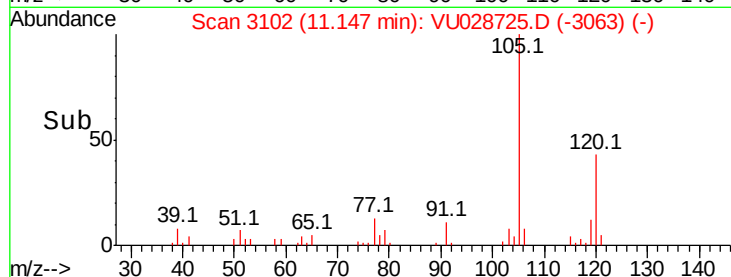
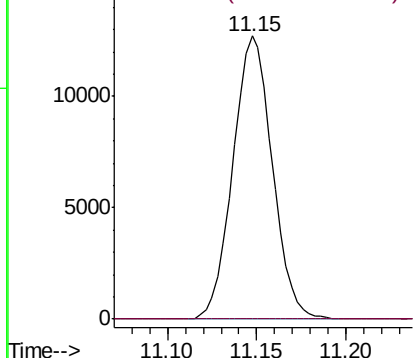
#85  
 sec-Butylbenzene  
 Concen: 4.620 ug/l  
 RT: 11.15 min Scan# 3102  
 Delta R.T. -0.17 min  
 Lab File: VU028725.D  
 Acq: 17 Dec 2018 17:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:105 Resp: 19467  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 9.2 27.6#

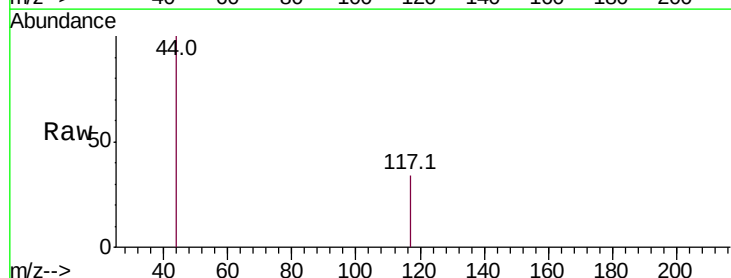


Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 134.00 (133.70 to 134.70): V

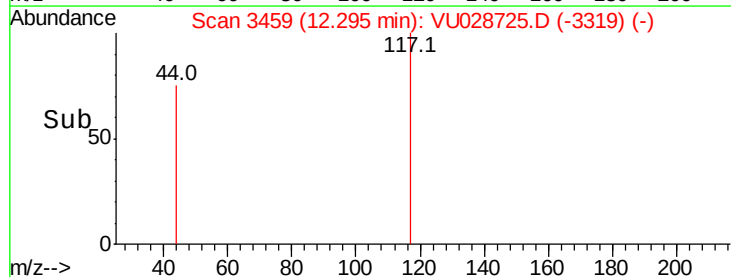
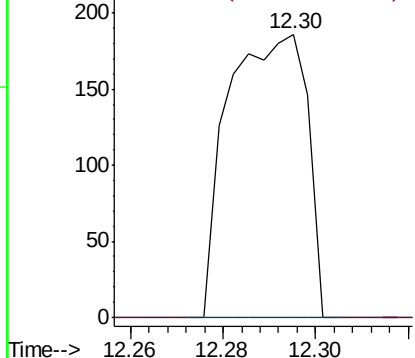


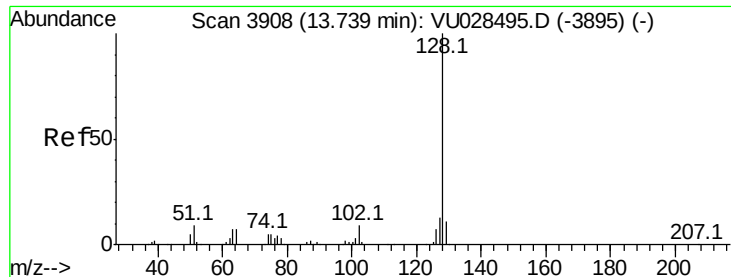
#90  
 Hexachloroethane  
 Concen: 0.407 ug/l  
 RT: 12.30 min Scan# 3459  
 Delta R.T. 0.15 min  
 Lab File: VU028725.D  
 Acq: 17 Dec 2018 17:07

Tgt Ion:117 Resp: 220  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 38.1 114.5#



Abundance Ion 116.80 (116.50 to 117.50): V  
 Ion 200.70 (200.40 to 201.40): V





#95  
 Naphthalene  
 Concen: 1.533 ug/l  
 RT: 13.75 min Scan# 3910  
 Delta R.T. 0.01 min  
 Lab File: VU028725.D  
 Acq: 17 Dec 2018 17:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 10.3  | 10.4  | 15.6# |
| 129     | 6.4   | 8.6   | 13.0# |

