

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121118\  
 Data File : VU028592.D  
 Acq On : 11 Dec 2018 08:29  
 Operator : MD/SY  
 Sample : J6305-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

Quant Time: Dec 11 11:40:40 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  | 87711    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.88  | 114  | 160831   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 145947   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 63982    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 72500    | 54.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.32% |      |
| 35) Dibromofluoromethane  | 4.88   | 113 | 53892    | 53.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.50% |      |
| 50) Toluene-d8            | 7.56   | 98  | 210266   | 52.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.04% |      |
| 62) 4-Bromofluorobenzene  | 10.30  | 95  | 73519    | 49.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.26%  |      |

## Target Compounds

|                           |       |     |        |           | Qvalue    |
|---------------------------|-------|-----|--------|-----------|-----------|
| 3) Chloromethane          | 1.33  | 50  | 2023   | 0.936     | ug/l 94   |
| 4) Vinyl Chloride         | 1.51  | 62  | 744    | 0.477     | ug/l 90   |
| 5) Bromomethane           | 1.60  | 94  | 376    | 0.598     | ug/l # 59 |
| 6) Chloroethane           | 1.47  | 64  | 12146  | 13.755    | ug/l # 52 |
| 7) Trichlorofluoromethane | 1.88  | 101 | 592    | 0.361     | ug/l 91   |
| 11) Tert butyl alcohol    | 2.84  | 59  | 21146  | 70.908    | ug/l # 84 |
| 13) Acrolein              | 2.19  | 56  | 129    | 0.543     | ug/l # 1  |
| 14) Allyl chloride        | 2.55  | 41  | 51799  | 22.422    | ug/l # 44 |
| 15) Acrylonitrile         | 2.95  | 53  | 3121   | 3.770     | ug/l 99   |
| 16) Acetone               | 2.32  | 43  | 314848 | 360.465   | ug/l 100  |
| 17) Carbon Disulfide      | 2.48  | 76  | 4869   | 1.384     | ug/l # 94 |
| 18) Methyl Acetate        | 2.45  | 43  | 12371  | 5.464     | ug/l # 56 |
| 25) 2-Butanone            | 4.26  | 43  | 69619  | 58.324    | ug/l 97   |
| 26) 2,2-Dichloropropane   | 4.20  | 77  | 1931   | 1.036     | ug/l # 54 |
| 29) Tetrahydrofuran       | 4.64  | 42  | 32517  | 42.416    | ug/l 97   |
| 31) Cyclohexane           | 4.98  | 56  | 2326   | Below Cal | # 1       |
| 36) 1,1-Dichloropropene   | 4.98  | 75  | 8010   | 4.551     | ug/l # 50 |
| 37) Ethyl Acetate         | 4.26  | 43  | 69619  | 30.600    | ug/l # 70 |
| 38) Carbon Tetrachloride  | 4.98  | 117 | 8961   | 6.317     | ug/l # 14 |
| 40) Benzene               | 5.39  | 78  | 40923  | 7.895     | ug/l 96   |
| 41) Methacrylonitrile     | 4.57  | 41  | 2364   | 1.897     | ug/l # 72 |
| 43) Isopropyl Acetate     | 5.60  | 43  | 810    | 0.225     | ug/l # 62 |
| 48) Methyl methacrylate   | 6.54  | 41  | 1775   | 0.992     | ug/l # 24 |
| 49) 1,4-Dioxane           | 6.61  | 88  | 7514   | 265.921   | ug/l 89   |
| 51) 4-Methyl-2-Pentanone  | 7.46  | 43  | 26421  | 11.641    | ug/l 97   |
| 52) Toluene               | 7.64  | 92  | 26995  | 8.849     | ug/l 100  |
| 55) 1,1,2-Trichloroethane | 7.94  | 97  | 314    | 0.260     | ug/l # 14 |
| 56) Ethyl methacrylate    | 7.91  | 69  | 2173   | 1.052     | ug/l # 49 |
| 59) 2-Hexanone            | 8.37  | 43  | 3253   | 1.808     | ug/l 98   |
| 67) Ethyl Benzene         | 9.25  | 91  | 21326  | 3.730     | ug/l 96   |
| 68) m/p-Xylenes           | 9.37  | 106 | 7774   | 3.737     | ug/l 93   |
| 69) o-Xylene              | 9.78  | 106 | 3843   | 1.901     | ug/l 96   |
| 70) Styrene               | 9.79  | 104 | 49325  | 14.743    | ug/l 92   |
| 73) Isopropylbenzene      | 10.17 | 105 | 1879   | 0.383     | ug/l 96   |

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 Response via : Initial Calibration

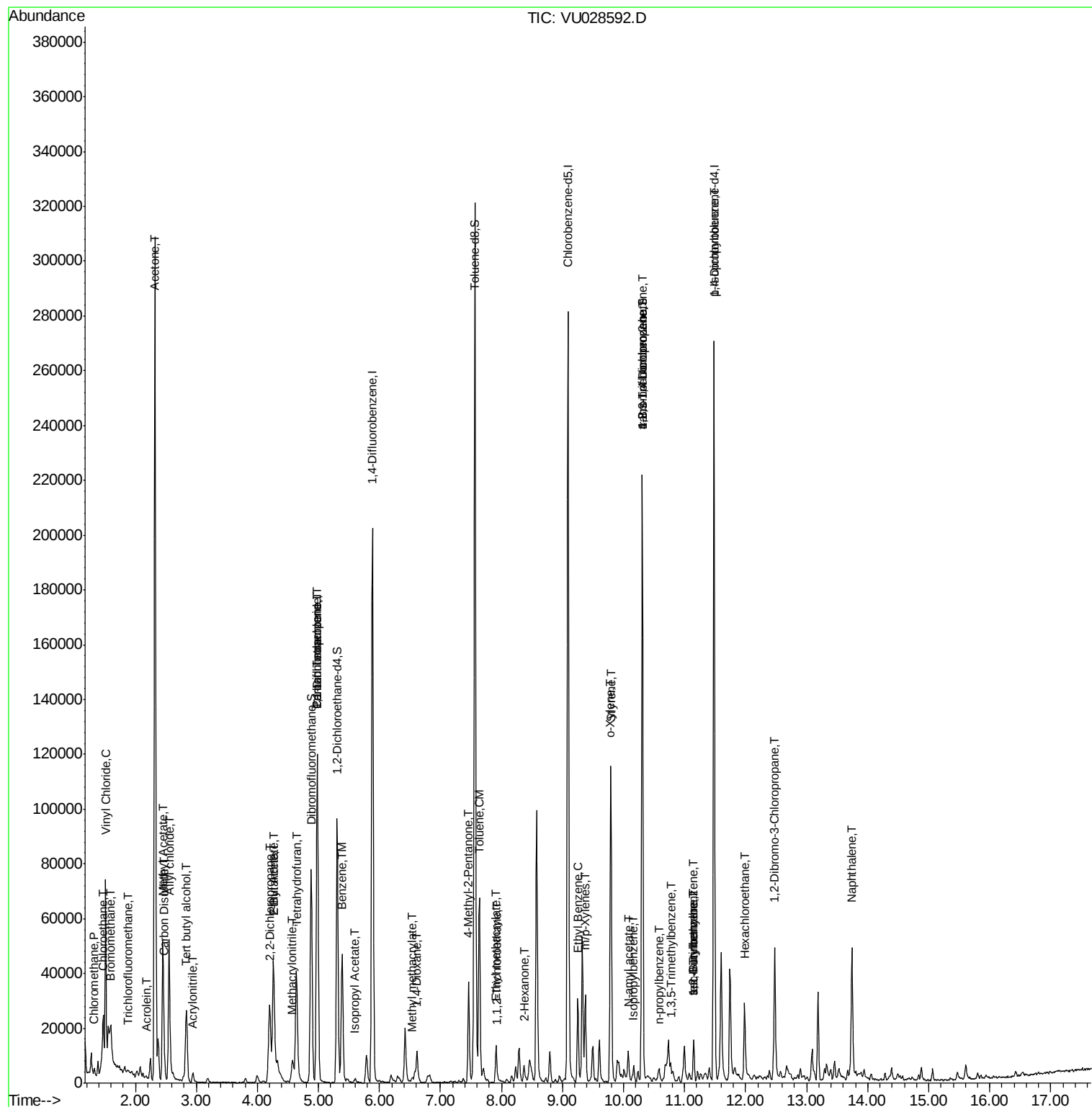
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 74) N-amyl acetate             | 10.07 | 43   | 1146     | 0.405  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane     | 10.30 | 75   | 38478    | 23.551 | ug/l # | 36       |
| 78) n-propylbenzene            | 10.59 | 91   | 1508     | 0.247  | ug/l   | 81       |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 3113     | 0.766  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 10.30 | 75   | 38478    | 57.822 | ug/l # | 100      |
| 83) tert-Butylbenzene          | 11.15 | 119  | 848      | 0.216  | ug/l # | 58       |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 7236     | 1.728  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 11.15 | 105  | 7236     | 1.438  | ug/l # | 59       |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 868      | 0.203  | ug/l # | 73       |
| 90) Hexachloroethane           | 11.99 | 117  | 689      | 1.066  | ug/l # | 11       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.48 | 75   | 684      | 1.675  | ug/l # | 6        |
| 95) Naphthalene                | 13.74 | 128  | 33611    | 6.458  | ug/l   | 99       |

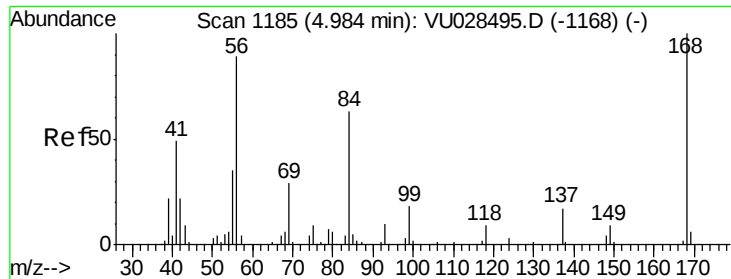
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

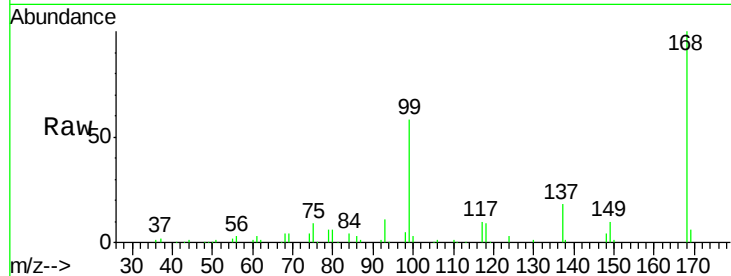
P001-SW005-01

Tot Ion:168 Resp: 87711

Ion Ratio Lower Upper

168 100

99 58.4 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

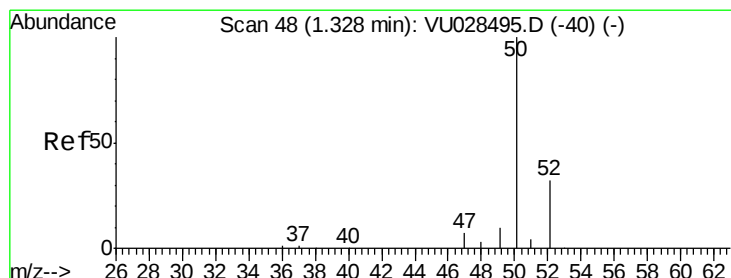
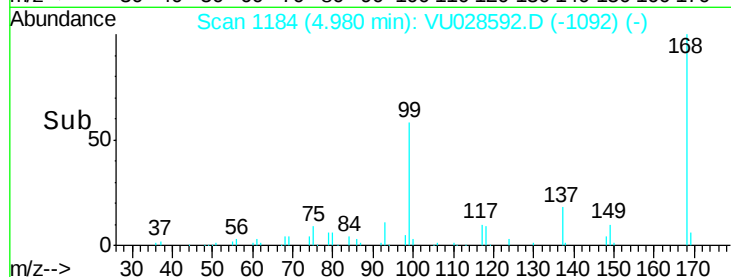
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: 0.936 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028592.D

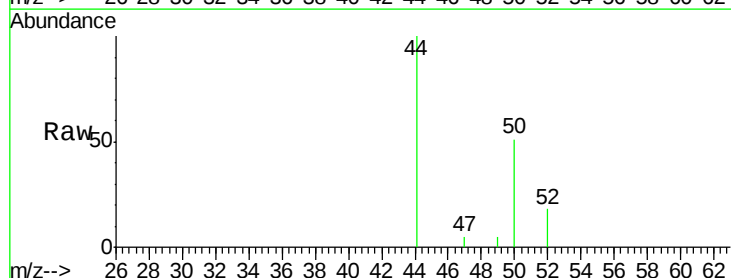
Acq: 11 Dec 2018 08:29

Tgt Ion: 50 Resp: 2023

Ion Ratio Lower Upper

50 100

52 35.5 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

1500

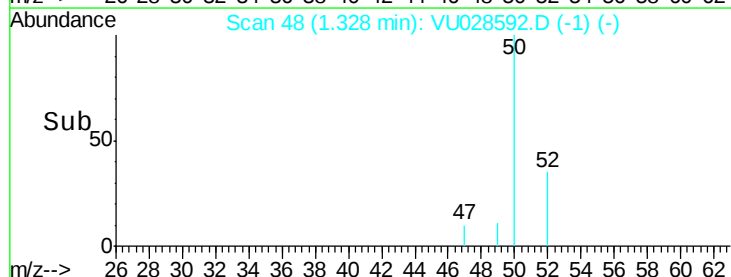
1000

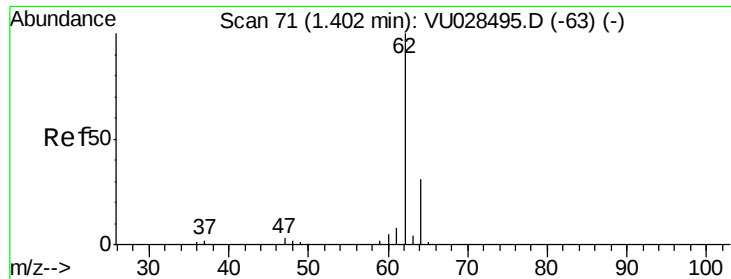
500

0

1.30 1.35

Time-->





#4

Vinyl Chloride

Concen: 0.477 ug/l

RT: 1.51 min Scan# 106

Delta R.T. 0.11 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

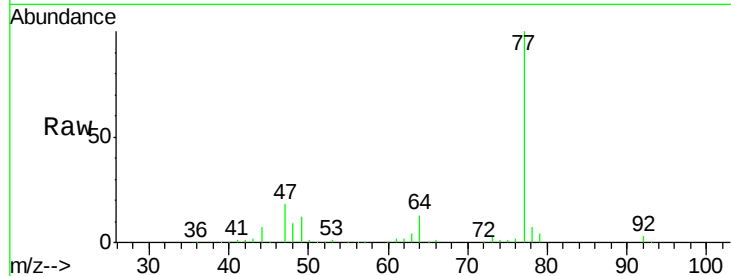
P001-SW005-01

Tot Ion: 62 Resp: 744

Ion Ratio Lower Upper

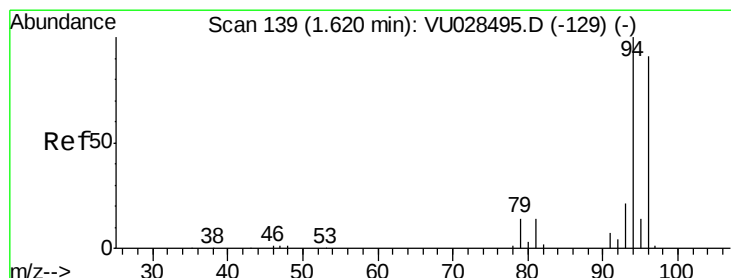
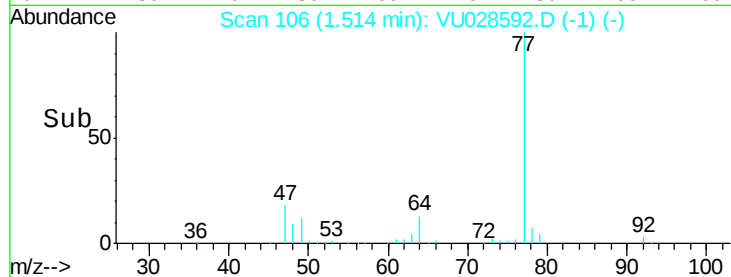
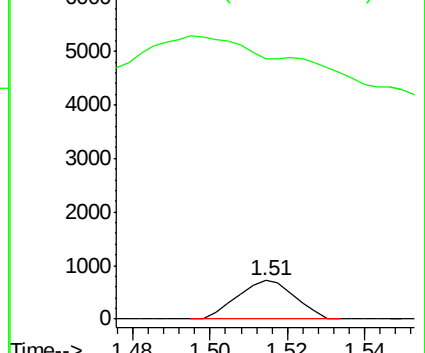
62 100

64 37.1 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.598 ug/l

RT: 1.60 min Scan# 133

Delta R.T. -0.02 min

Lab File: VU028592.D

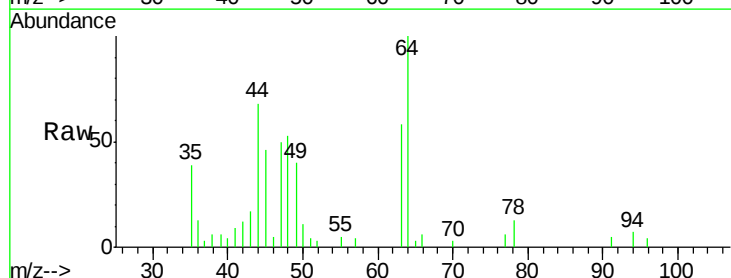
Acq: 11 Dec 2018 08:29

Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

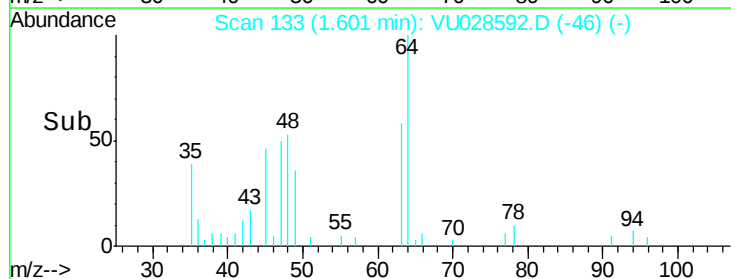
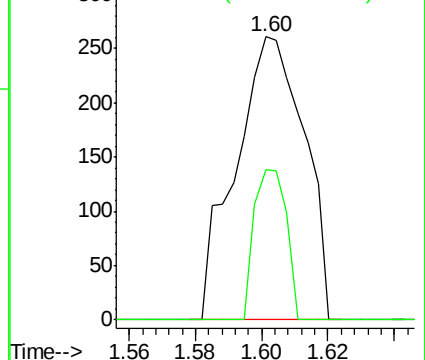
94 100

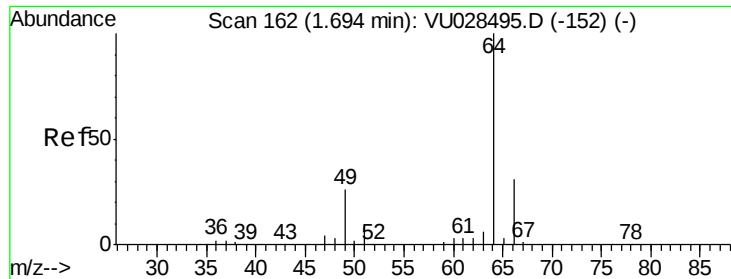
96 52.9 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0





#6

Chloroethane

Concen: 13.755 ug/l

RT: 1.47 min Scan# 91

Delta R.T. -0.23 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

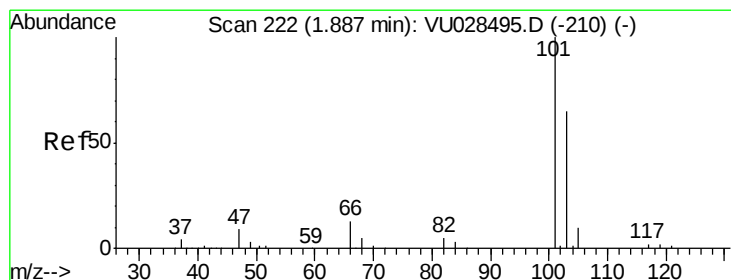
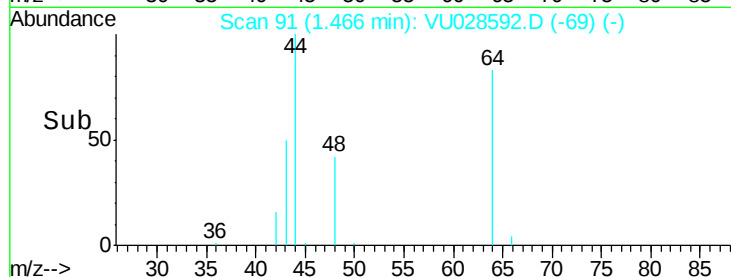
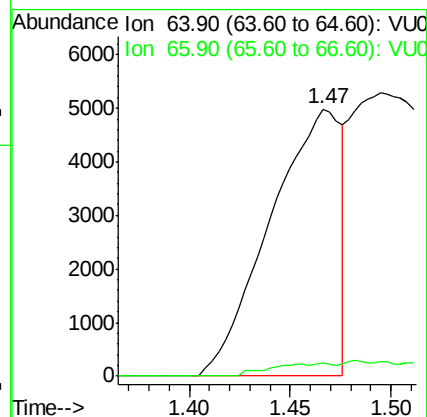
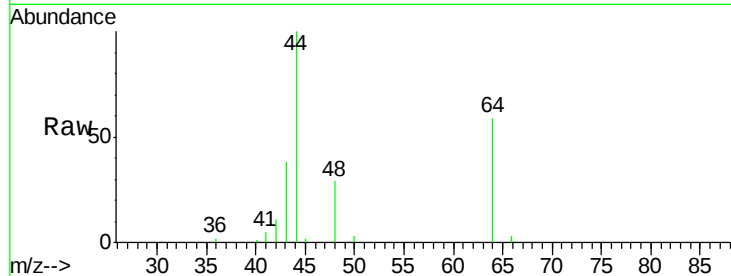
P001-SW005-01

Tot Ion: 64 Resp: 12146

Ion Ratio Lower Upper

64 100

66 4.8 25.0 37.6#



#7

Trichlorofluoromethane

Concen: 0.361 ug/l

RT: 1.88 min Scan# 219

Delta R.T. -0.01 min

Lab File: VU028592.D

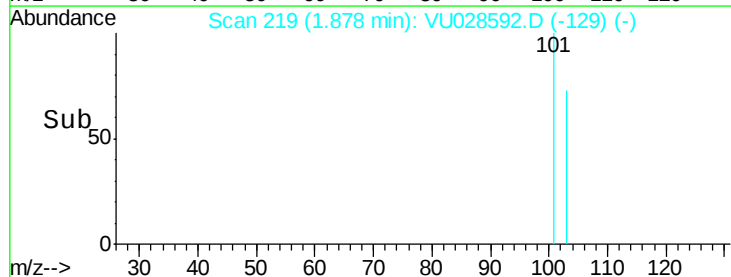
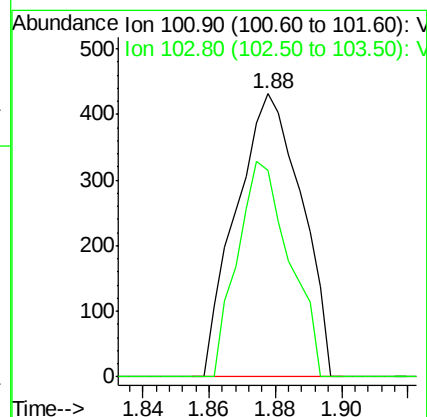
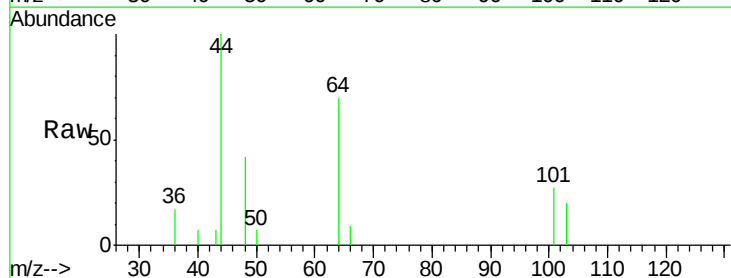
Acq: 11 Dec 2018 08:29

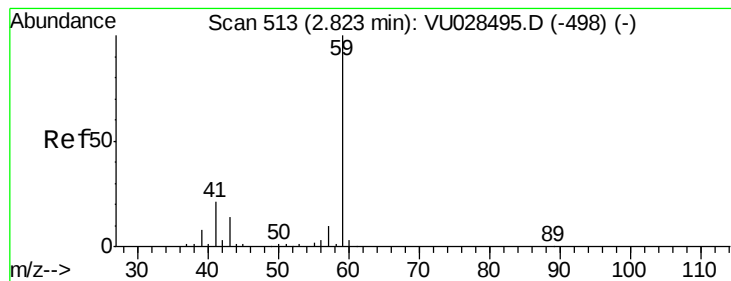
Tgt Ion: 101 Resp: 592

Ion Ratio Lower Upper

101 100

103 72.9 52.3 78.5



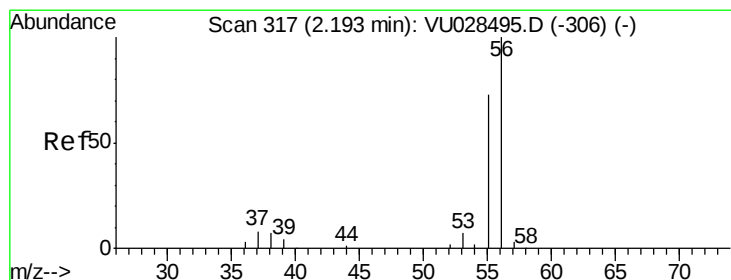
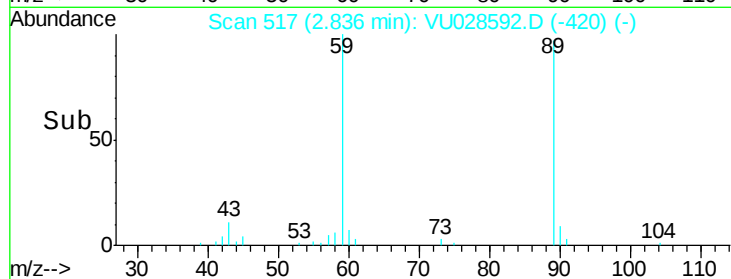
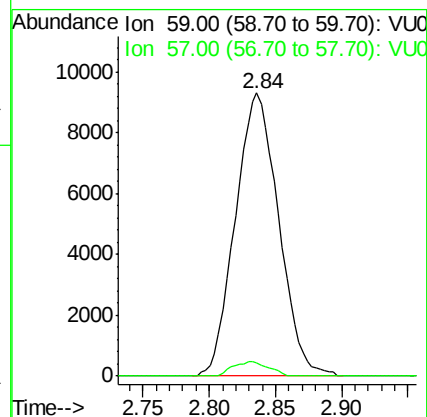
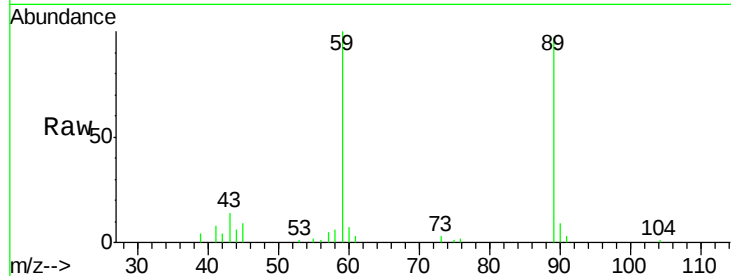


#11

Tert butyl alcohol  
 Concen: 70.908 ug/l  
 RT: 2.84 min Scan# 517  
 Delta R.T. 0.01 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

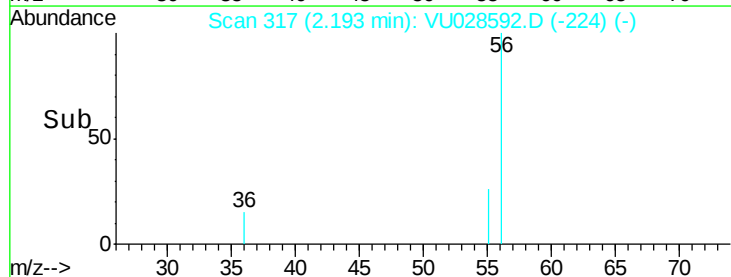
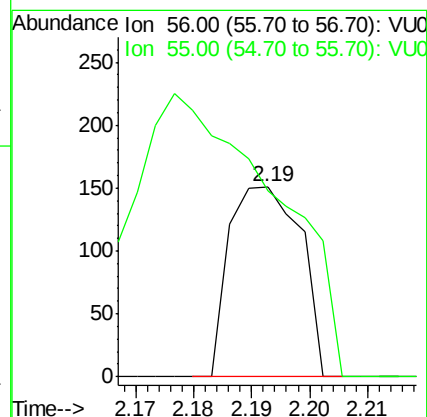
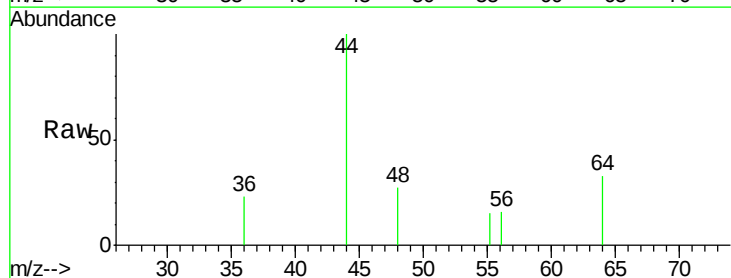
Tot Ion: 59 Resp: 21146  
 Ion Ratio Lower Upper  
 59 100  
 57 4.2 8.0 12.0#

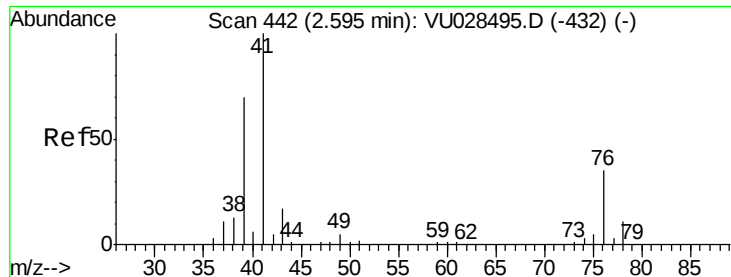


#13

Acrolein  
 Concen: 0.543 ug/l  
 RT: 2.19 min Scan# 317  
 Delta R.T. -0.00 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Tgt Ion: 56 Resp: 129  
 Ion Ratio Lower Upper  
 56 100  
 55 293.0 57.5 86.3#





#14

Allvl chloride

Concen: 22.422 ug/l

RT: 2.55 min Scan# 429

Delta R.T. -0.04 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

P001-SW005-01

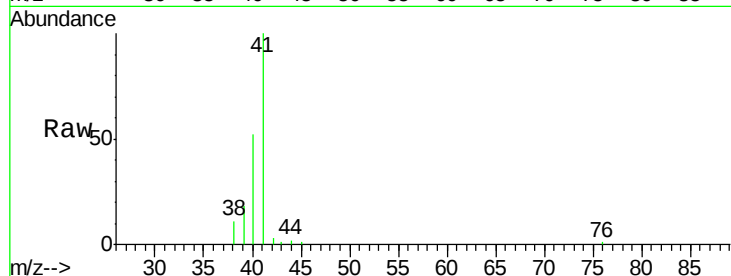
Tot Ion: 41 Resp: 51799

Ion Ratio Lower Upper

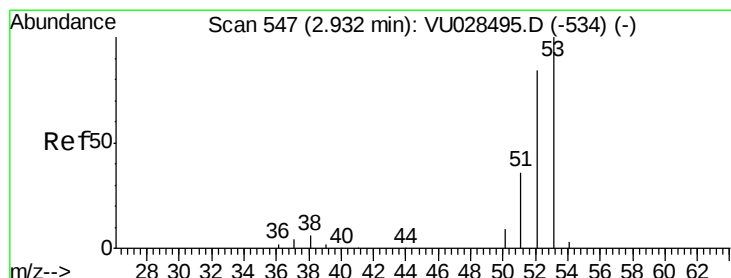
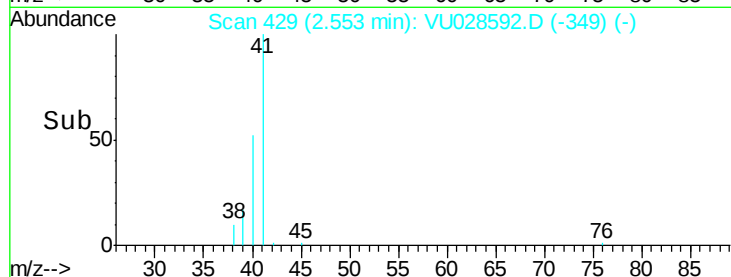
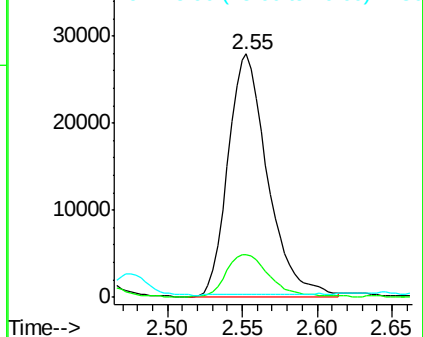
41 100

39 19.5 50.8 76.2#

76 0.0 24.8 37.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0  
Ion 75.90 (75.60 to 76.60): VU0



#15

Acrylonitrile

Concen: 3.770 ug/l

RT: 2.95 min Scan# 551

Delta R.T. 0.01 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

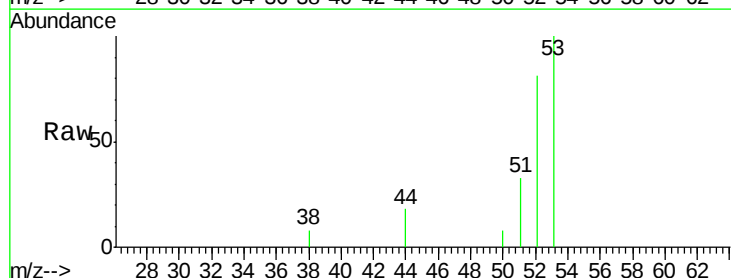
Tgt Ion: 53 Resp: 3121

Ion Ratio Lower Upper

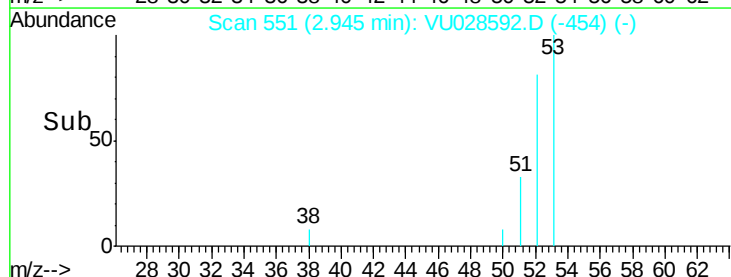
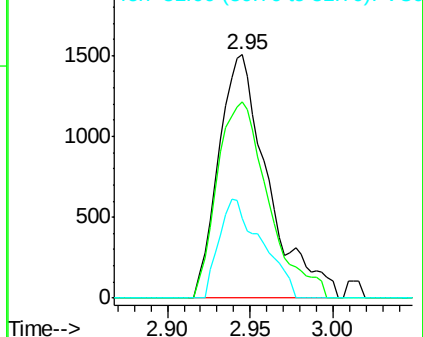
53 100

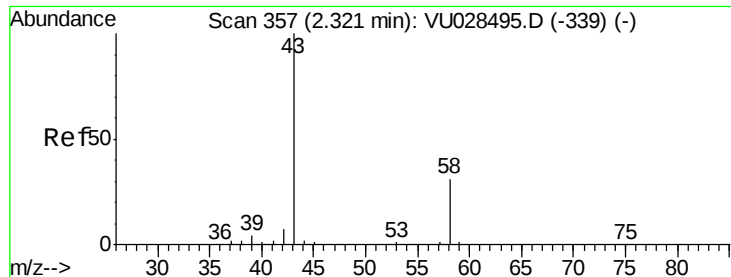
52 83.5 66.1 99.1

51 35.0 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VU0  
Ion 52.00 (51.70 to 52.70): VU0  
Ion 51.00 (50.70 to 51.70): VU0





#16

Acetone

Concen: 360.465 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

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ClientSampleId :

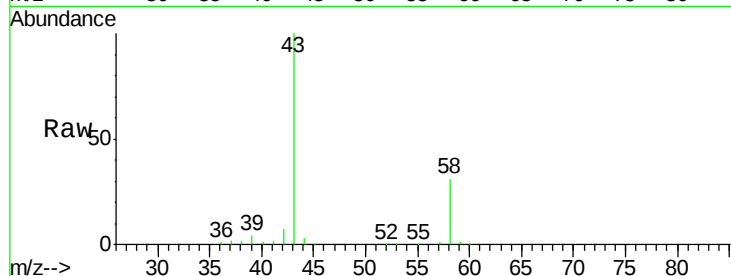
P001-SW005-01

Tot Ion: 43 Resp: 314848

Ion Ratio Lower Upper

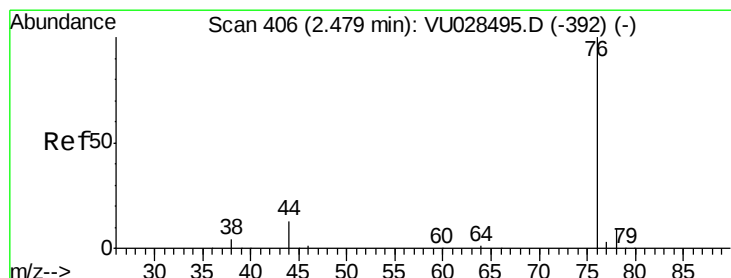
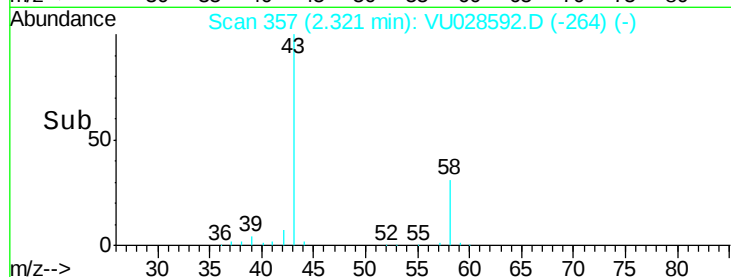
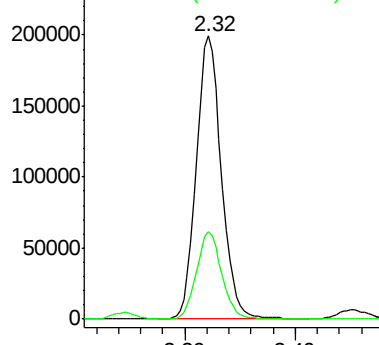
43 100

58 30.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 1.384 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028592.D

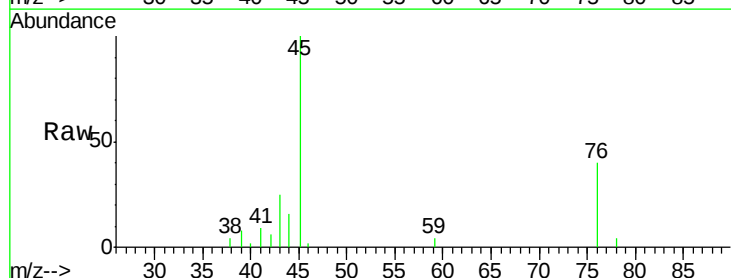
Acq: 11 Dec 2018 08:29

Tgt Ion: 76 Resp: 4869

Ion Ratio Lower Upper

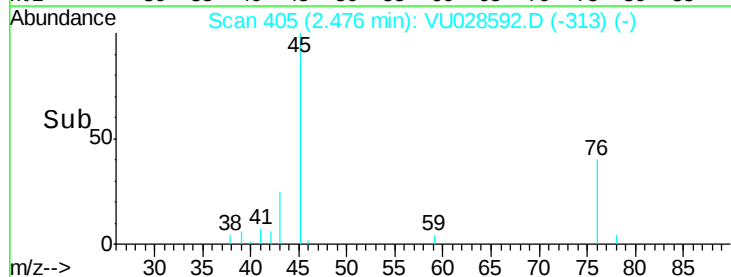
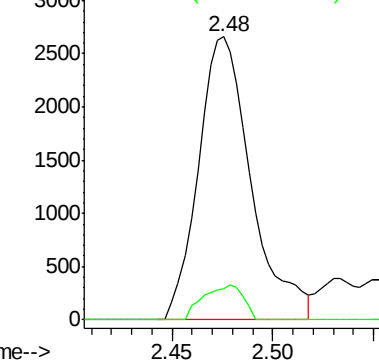
76 100

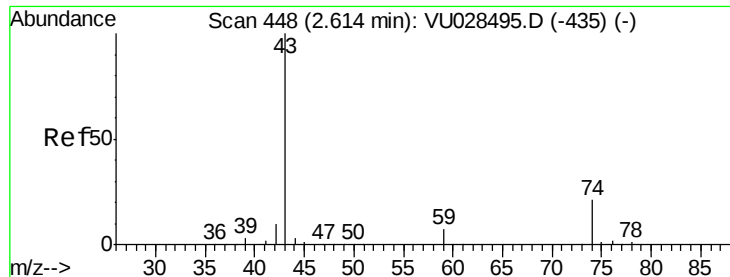
78 11.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

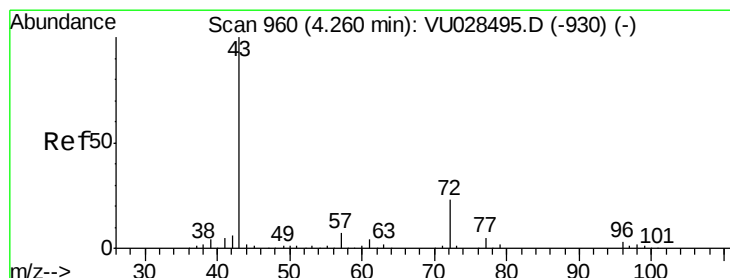
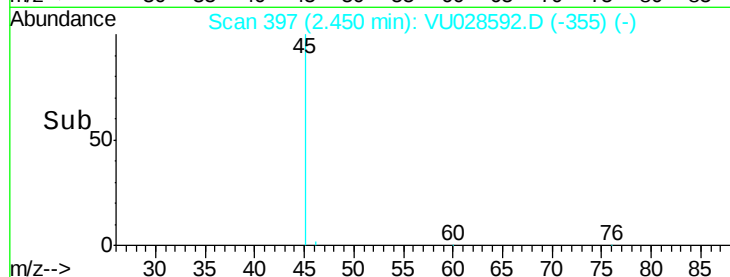
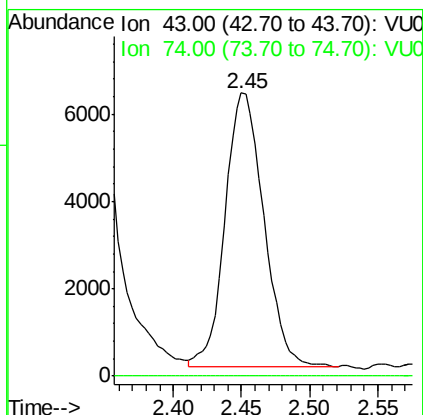
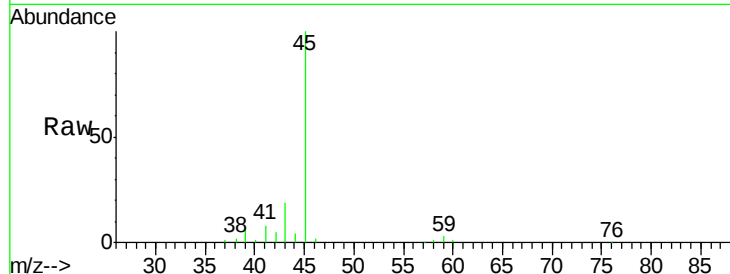




#18  
Methvl Acetate  
Concen: 5.464 ug/l  
RT: 2.45 min Scan# 397  
Delta R.T. -0.16 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

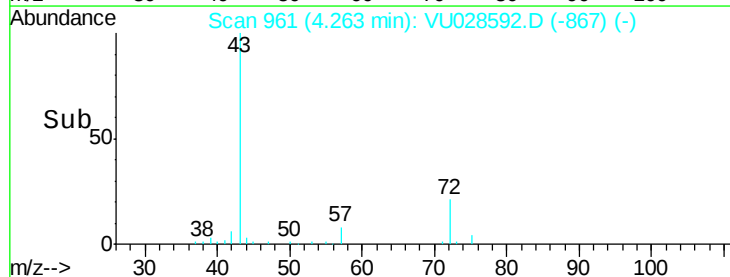
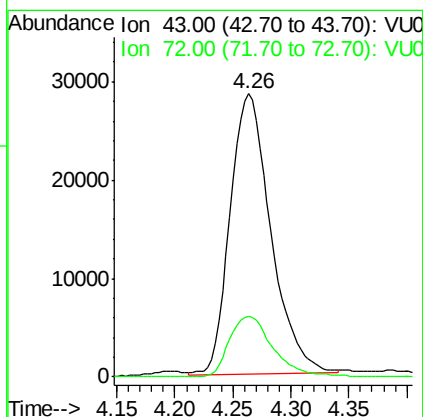
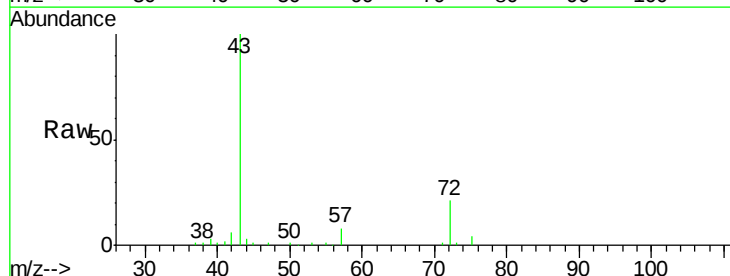
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

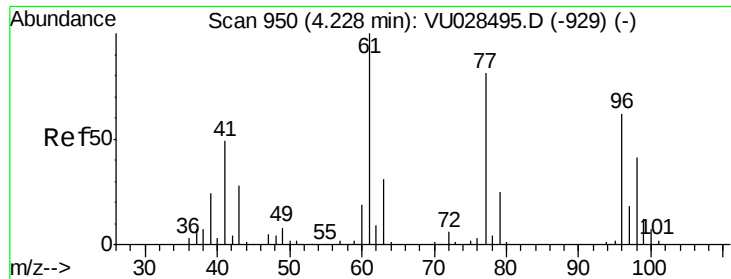
Tot Ion: 43 Resp: 12371  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.4 24.6#



#25  
2-Butanone  
Concen: 58.324 ug/l  
RT: 4.26 min Scan# 961  
Delta R.T. 0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Tgt Ion: 43 Resp: 69619  
Ion Ratio Lower Upper  
43 100  
72 21.8 18.6 28.0

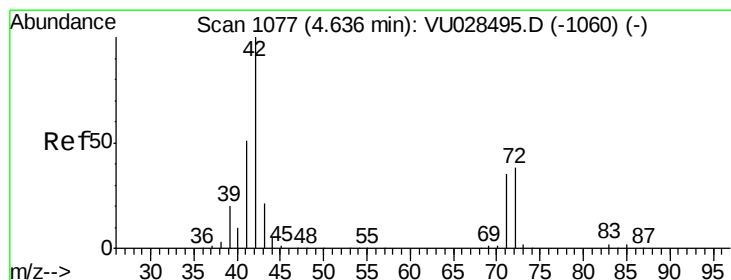
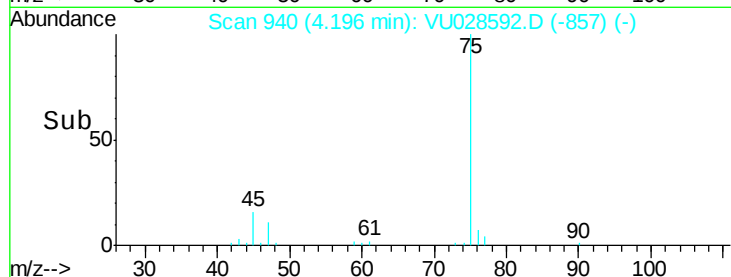
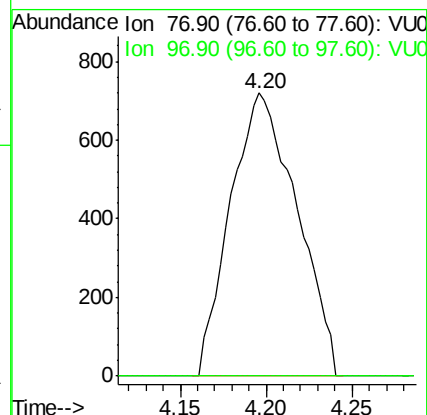
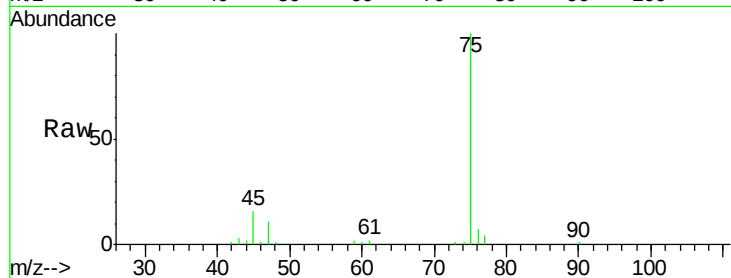




#26  
 2,2-Dichloropropane  
 Concen: 1.036 ug/l  
 RT: 4.20 min Scan# 940  
 Delta R.T. -0.03 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

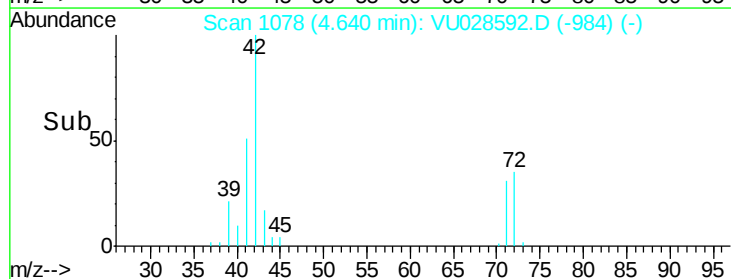
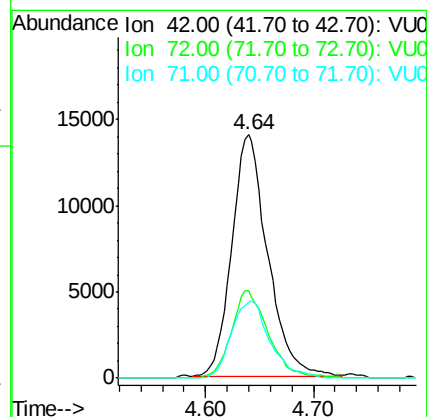
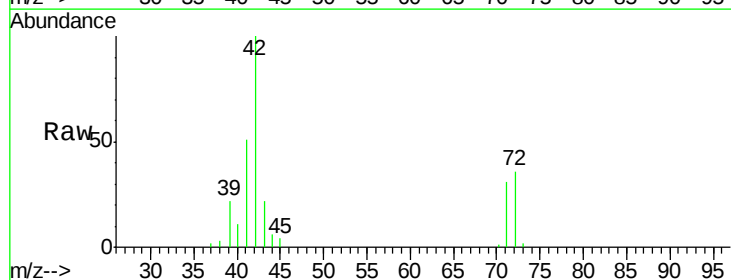
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

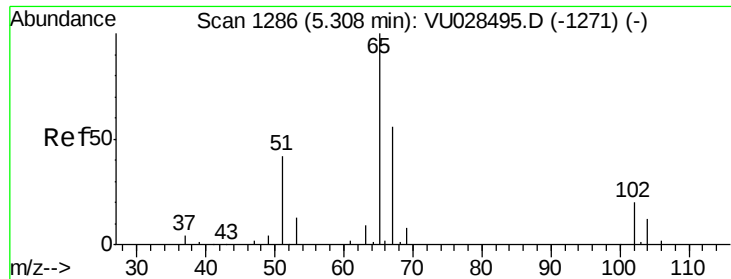
Tot Ion: 77 Resp: 1931  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 11.0 33.0#



#29  
 Tetrahydrofuran  
 Concen: 42.416 ug/l  
 RT: 4.64 min Scan# 1078  
 Delta R.T. 0.00 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Tgt Ion: 42 Resp: 32517  
 Ion Ratio Lower Upper  
 42 100  
 72 37.4 31.4 47.0  
 71 34.2 28.6 43.0

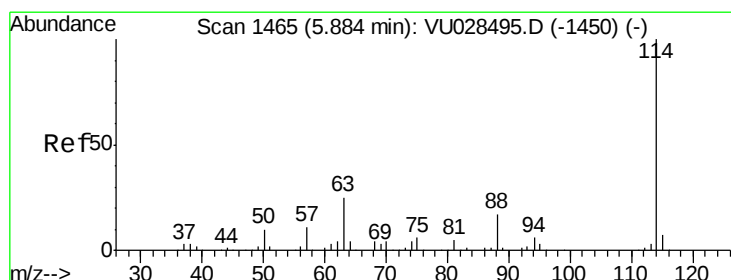
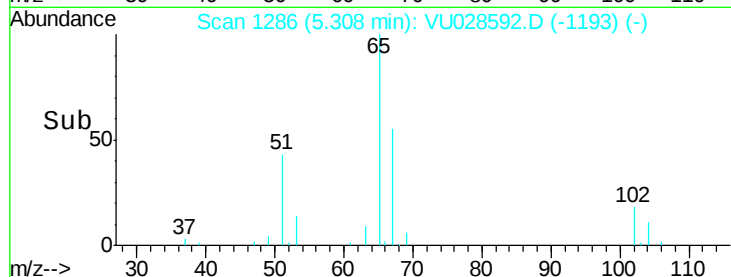
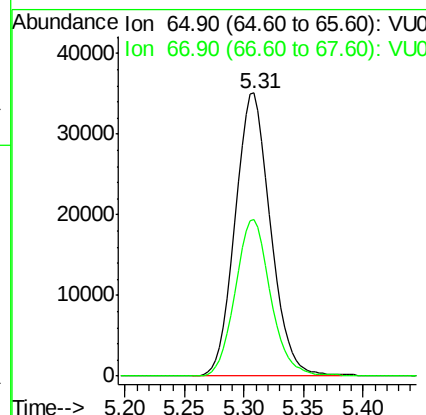
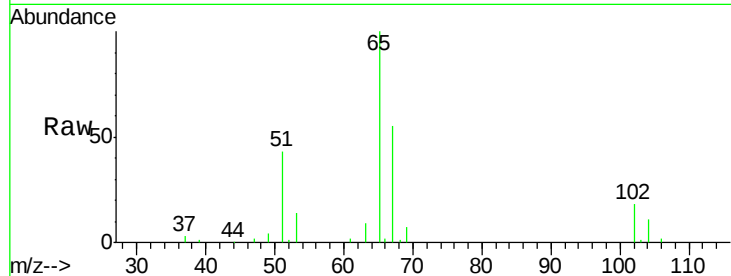




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.164 ug/l  
 RT: 5.31 min Scan# 1286  
 Delta R.T. -0.00 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

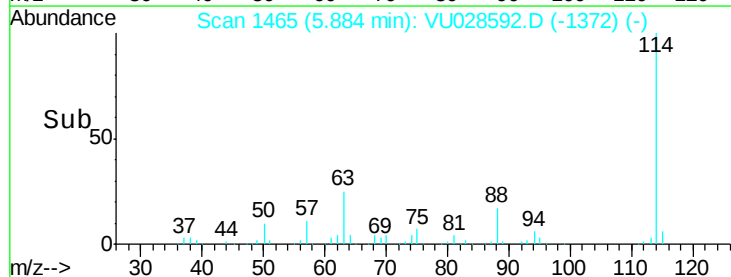
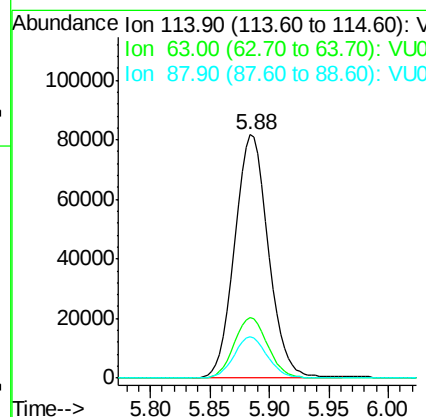
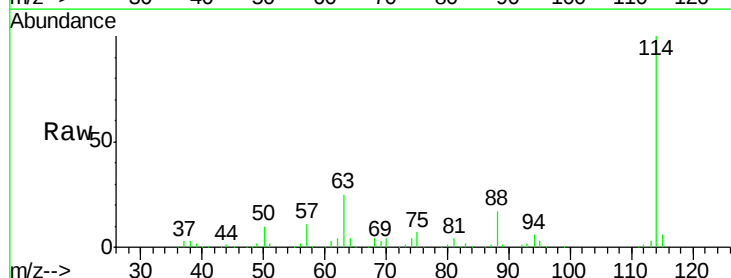
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

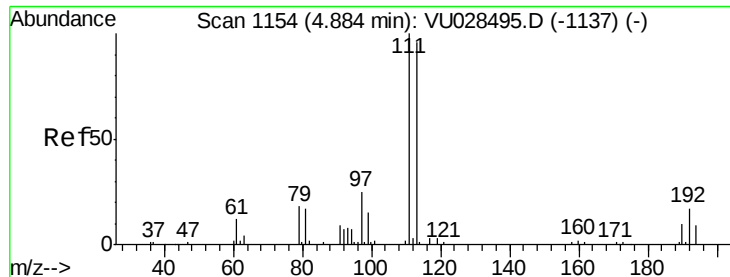
Tot Ion: 65 Resp: 72500  
 Ion Ratio Lower Upper  
 65 100  
 67 55.1 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.88 min Scan# 1465  
 Delta R.T. -0.00 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Tgt Ion: 114 Resp: 160831  
 Ion Ratio Lower Upper  
 114 100  
 63 24.8 0.0 49.2  
 88 17.0 0.0 33.4





#35

Dibromofluoromethane

Concen: 53.247 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

P001-SW005-01

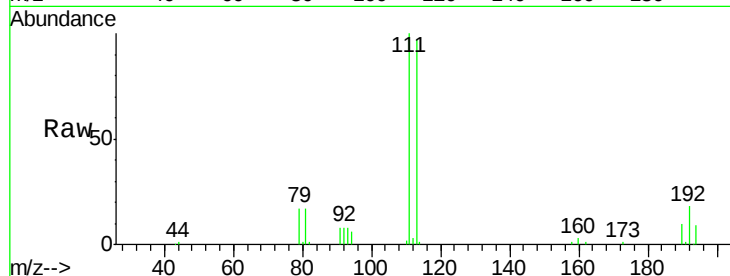
Tot Ion:113 Resp: 53892

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.0

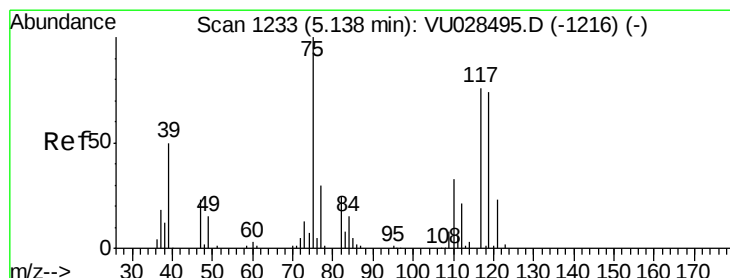
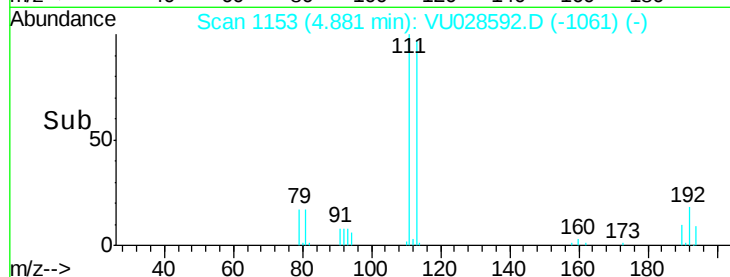
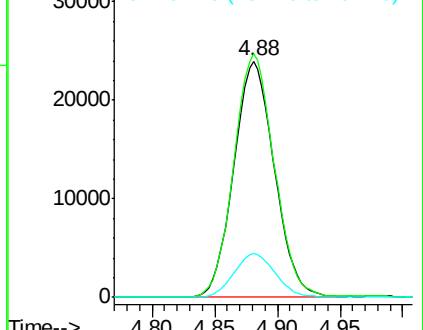
192 18.8 14.8 22.2



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: 4.551 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

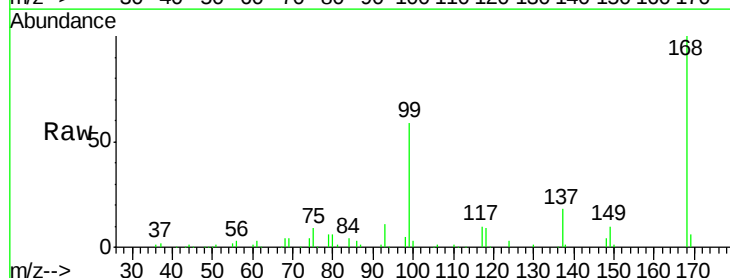
Tgt Ion: 75 Resp: 8010

Ion Ratio Lower Upper

75 100

110 7.0 16.1 48.2#

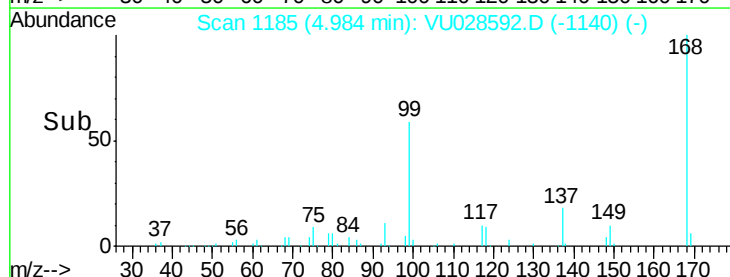
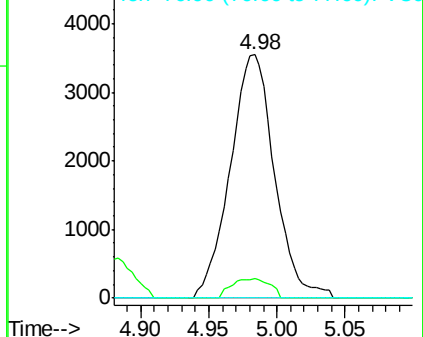
77 0.0 24.5 36.7#

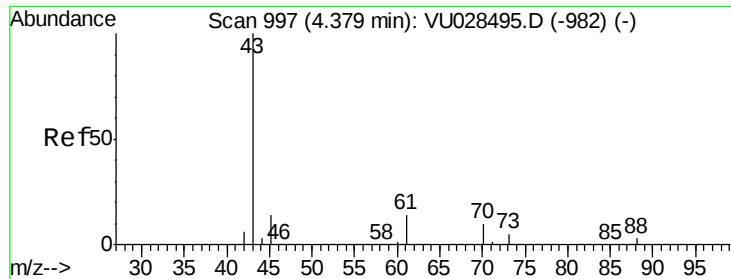


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#37

Ethyl Acetate

Concen: 30.600 ug/l

RT: 4.26 min Scan# 961

Delta R.T. -0.12 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

P001-SW005-01

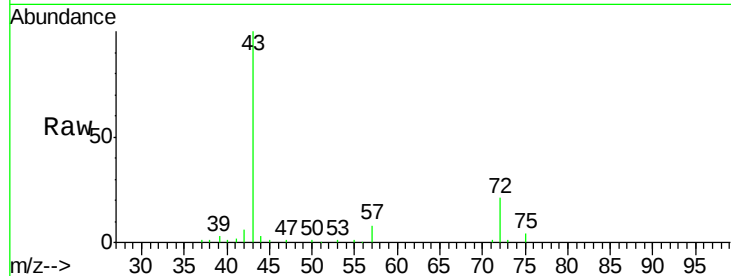
Tot Ion: 43 Resp: 69619

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

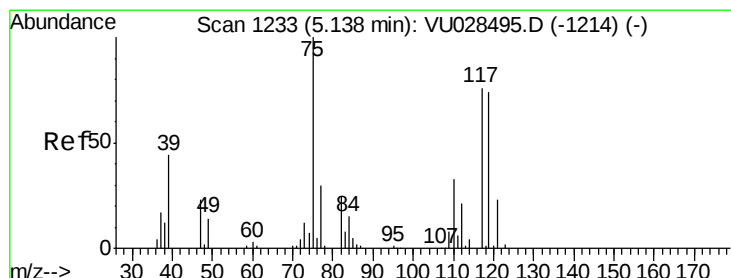
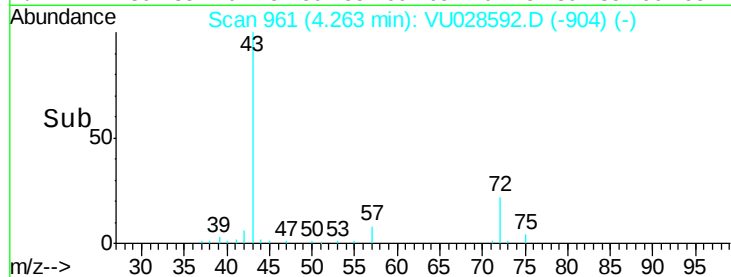
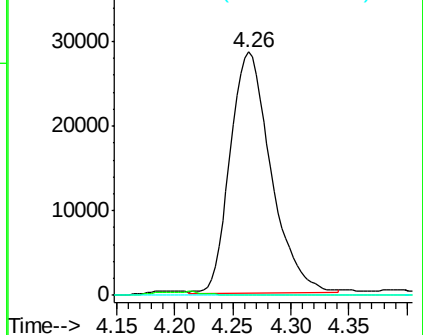
70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-982) (-)

Ion 60.90 (60.60 to 61.60): VU028495.D (-982) (-)

Ion 70.00 (69.70 to 70.70): VU028495.D (-982) (-)



#38

Carbon Tetrachloride

Concen: 6.317 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

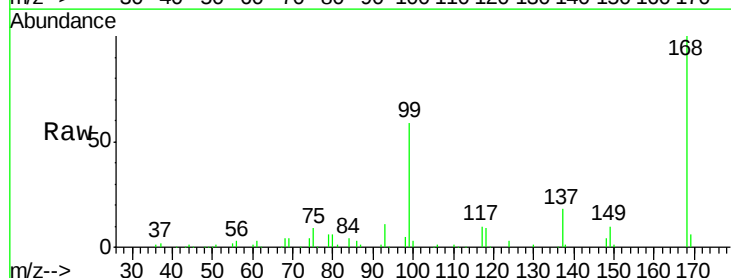
Tgt Ion: 117 Resp: 8961

Ion Ratio Lower Upper

117 100

119 3.6 77.6 116.4#

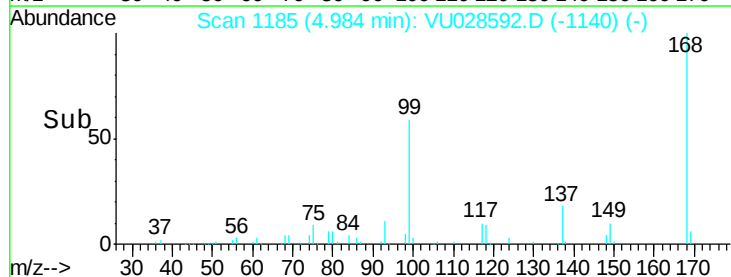
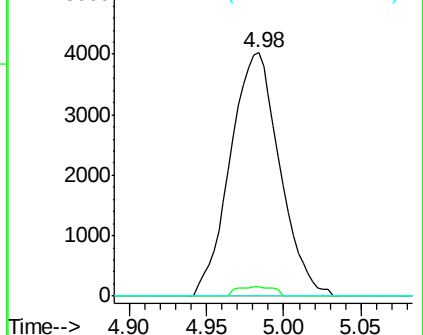
121 0.0 24.6 36.8#

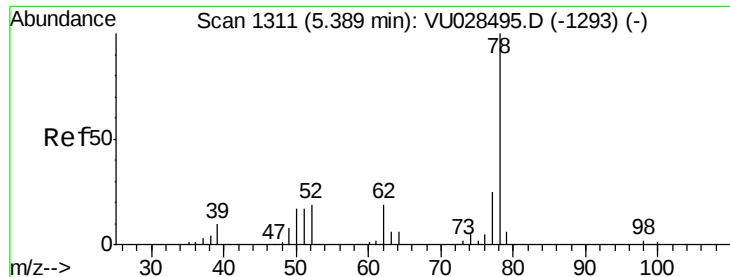


Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU028495.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU028495.D (-1214) (-)





#40

Benzene

Concen: 7.895 ug/l

RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

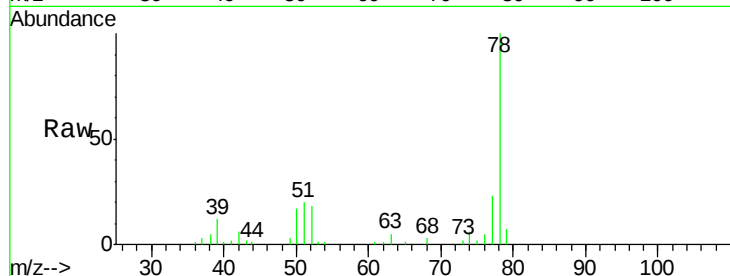
P001-SW005-01

Tot Ion: 78 Resp: 40923

Ion Ratio Lower Upper

78 100

77 23.0 19.9 29.9



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

20000

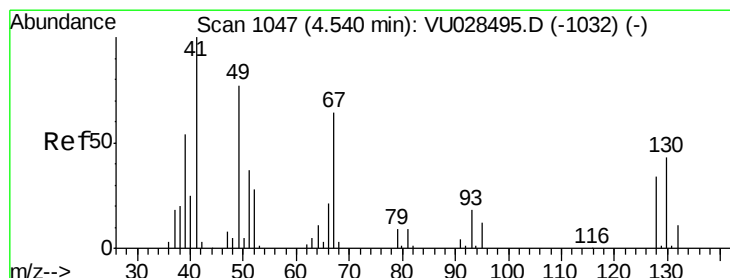
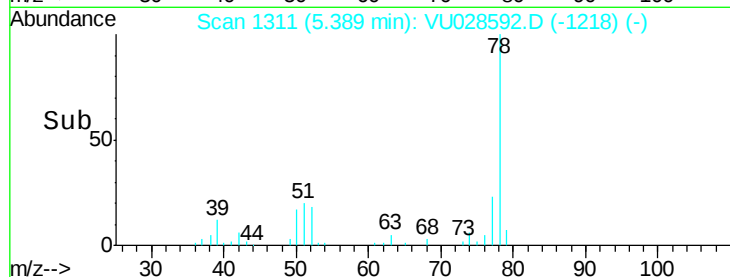
15000

10000

5000

0

Time-->



#41

Methacrylonitrile

Concen: 1.897 ug/l

RT: 4.57 min Scan# 1057

Delta R.T. 0.03 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Tgt Ion: 41 Resp: 2364

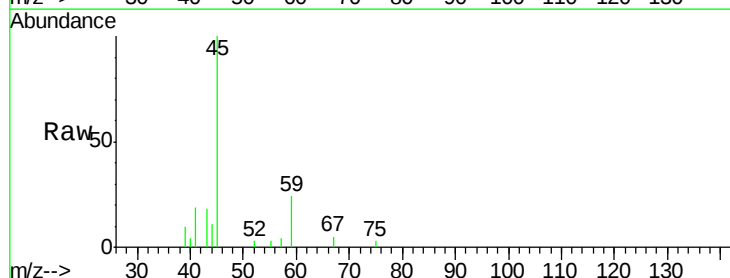
Ion Ratio Lower Upper

41 100

39 49.4 43.3 64.9

67 33.2 53.6 80.4#

52 8.1 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

10000

8000

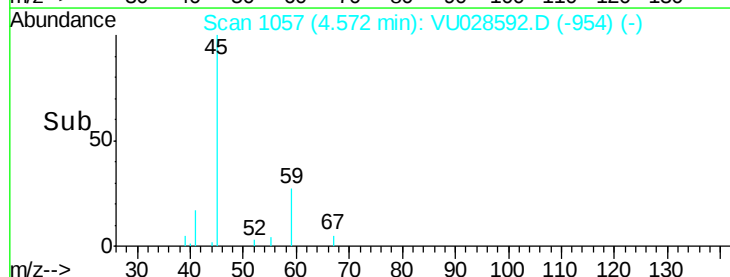
6000

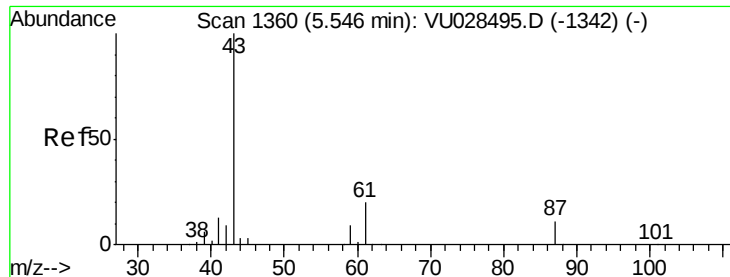
4000

2000

0

Time-->





#43

Isopropyl Acetate

Concen: 0.225 ug/l

RT: 5.60 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

P001-SW005-01

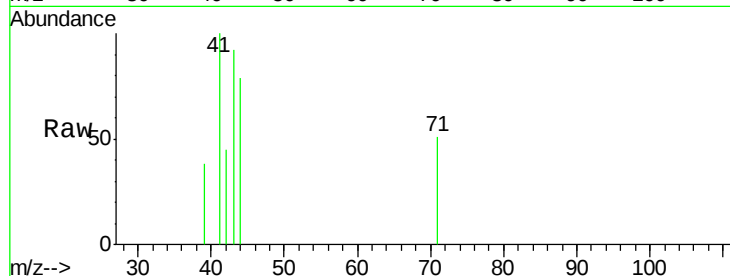
Tot Ion: 43 Resp: 810

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

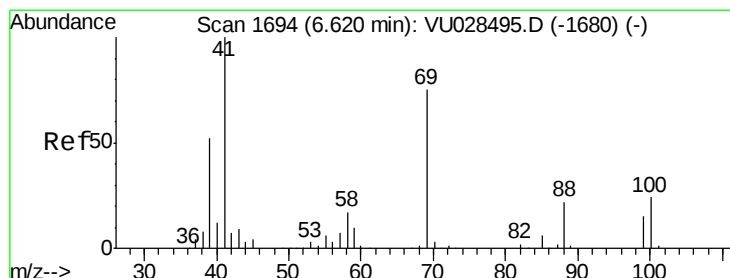
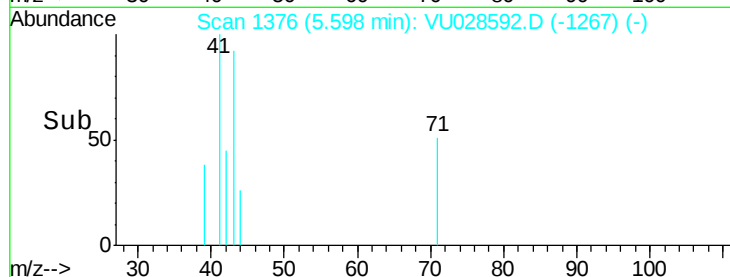
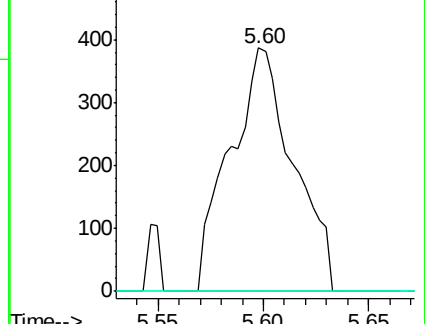
87 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#48

Methyl methacrylate

Concen: 0.992 ug/l

RT: 6.54 min Scan# 1668

Delta R.T. -0.08 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

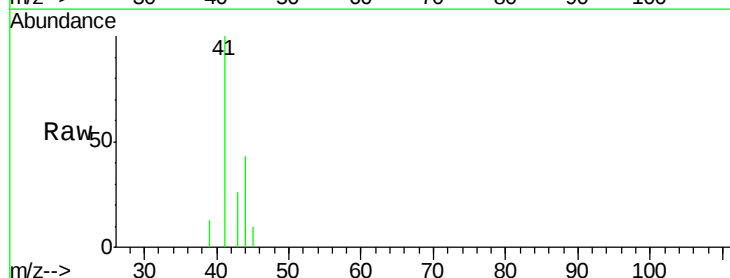
Tgt Ion: 41 Resp: 1775

Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

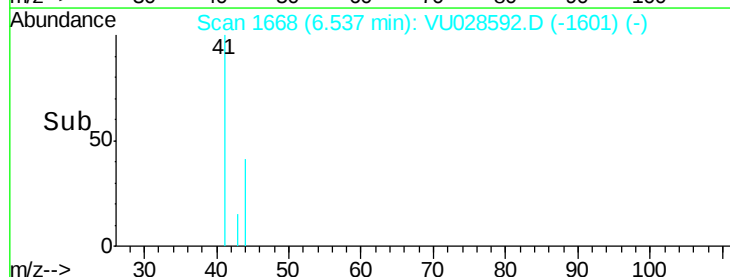
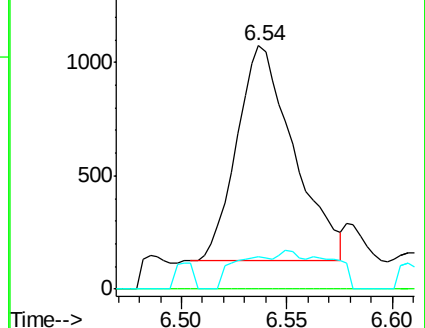
39 11.2 41.1 61.7#

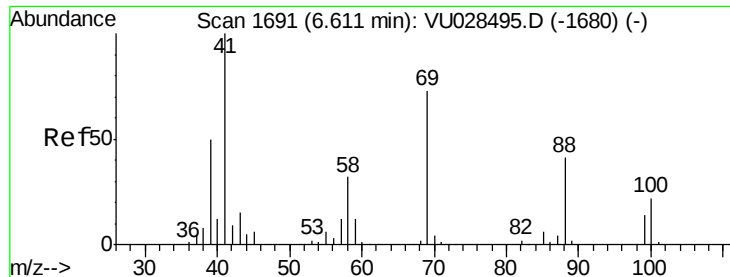


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

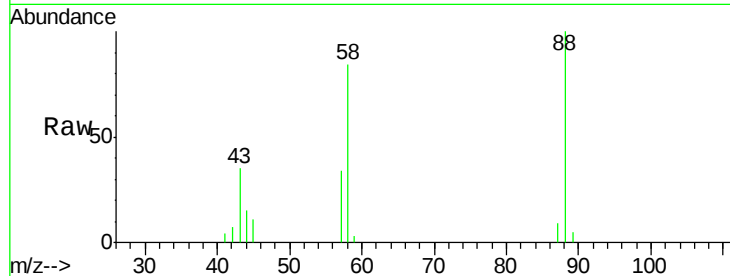




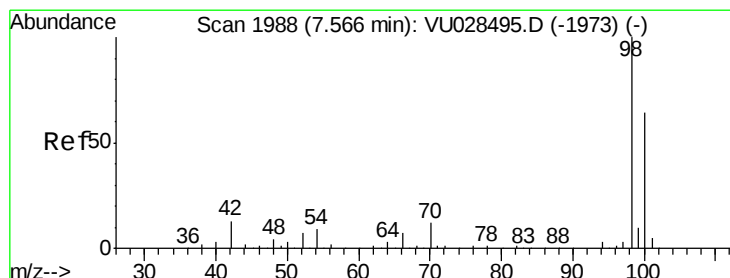
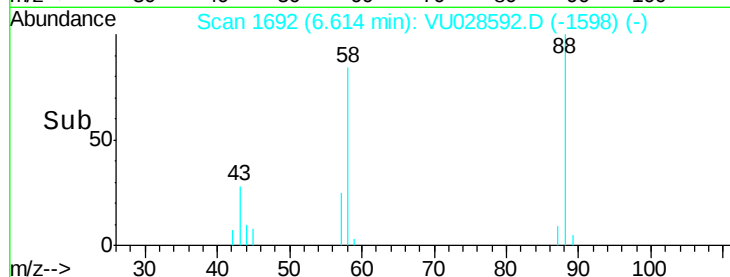
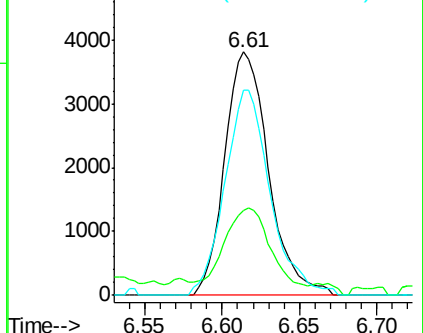
#49  
1,4-Dioxane  
Concen: 265.921 ug/l  
RT: 6.61 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

Tot Ion: 88 Resp: 7514  
Ion Ratio Lower Upper  
88 100  
43 31.4 30.9 46.3  
58 87.2 62.4 93.6

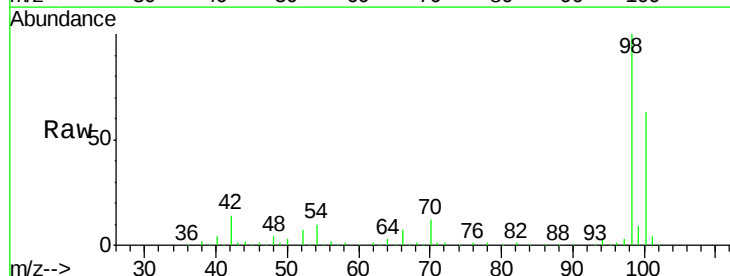


Abundance Ion 88.00 (87.70 to 88.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0

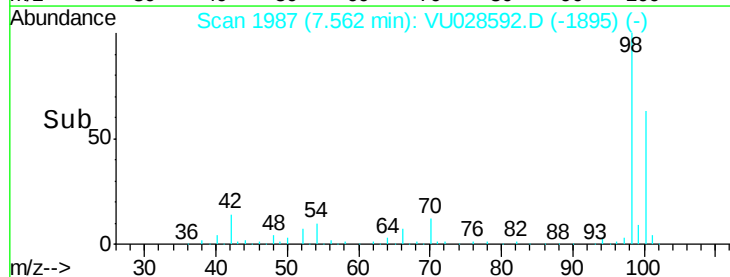
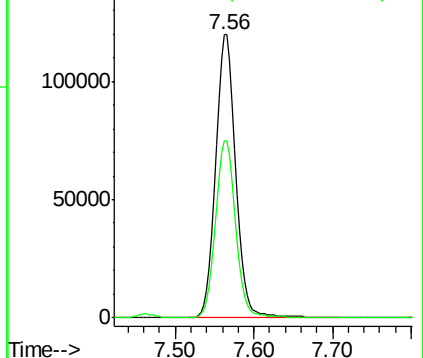


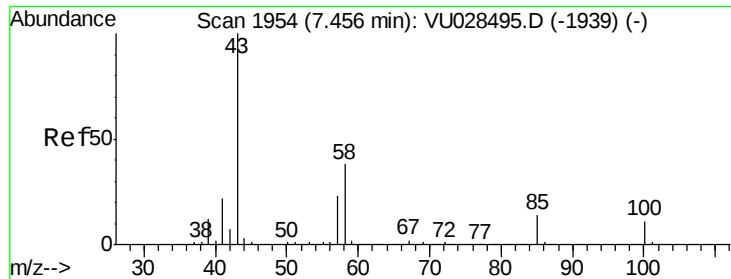
#50  
Toluene-d8  
Concen: 52.517 ug/l  
RT: 7.56 min Scan# 1987  
Delta R.T. -0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Tgt Ion: 98 Resp: 210266  
Ion Ratio Lower Upper  
98 100  
100 62.7 51.0 76.6



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





#51

4-Methyl-2-Pentanone

Concen: 11.641 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

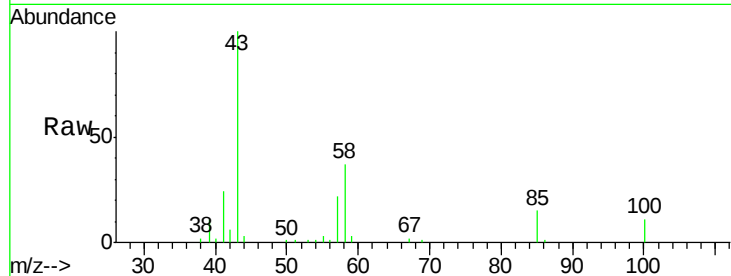
P001-SW005-01

Tot Ion: 43 Resp: 26421

Ion Ratio Lower Upper

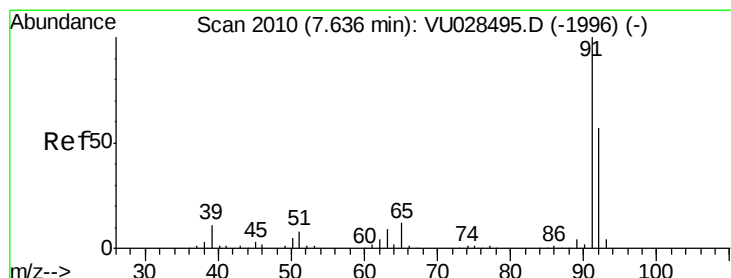
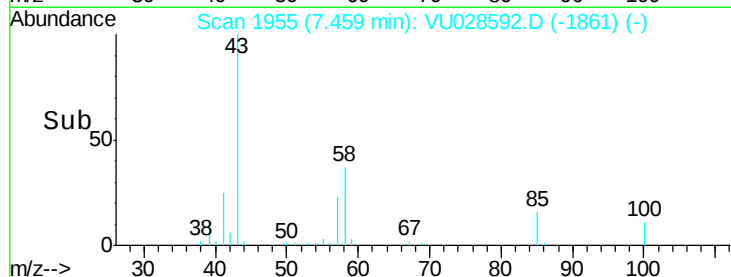
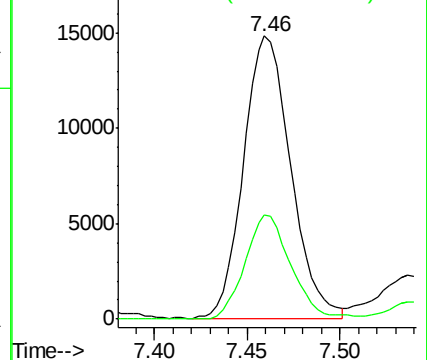
43 100

58 35.7 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: 8.849 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028592.D

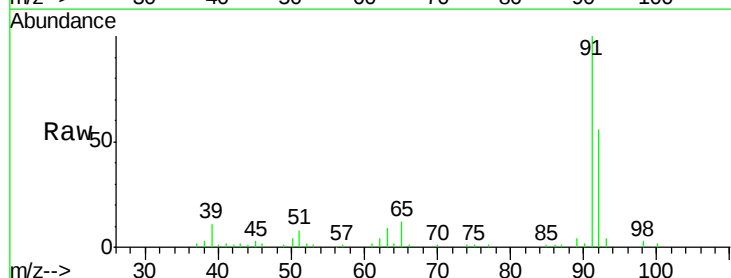
Acq: 11 Dec 2018 08:29

Tgt Ion: 92 Resp: 26995

Ion Ratio Lower Upper

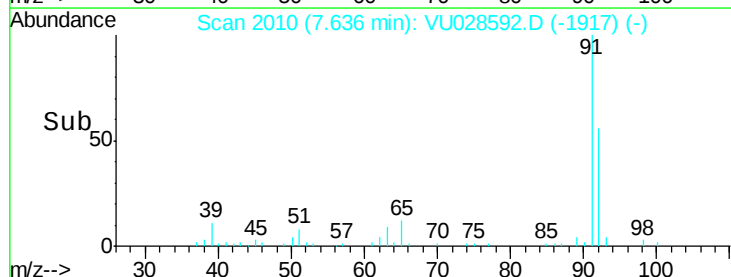
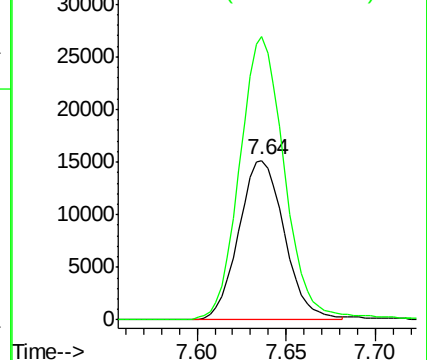
92 100

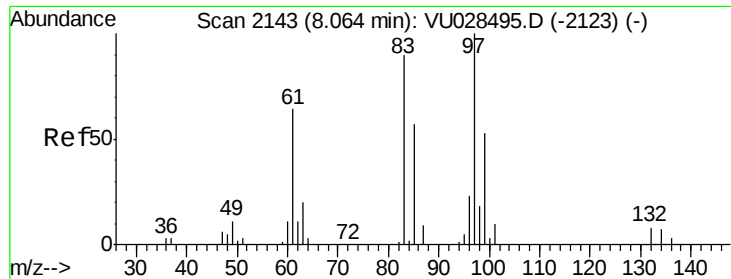
91 175.7 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

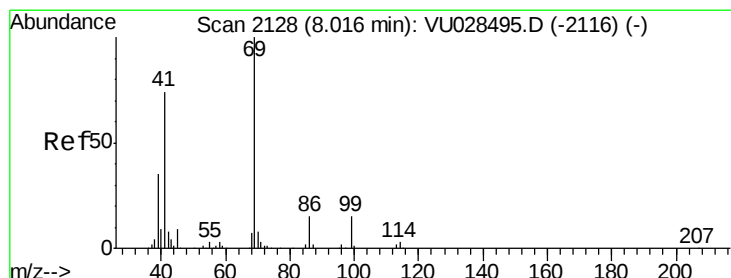
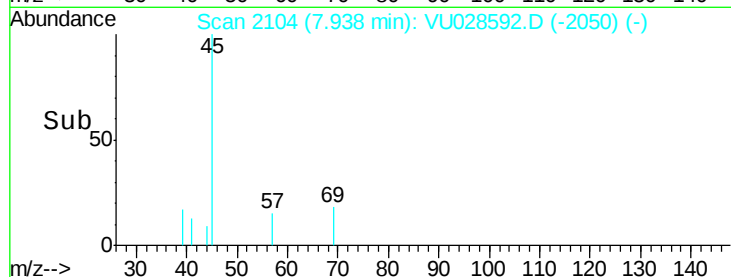
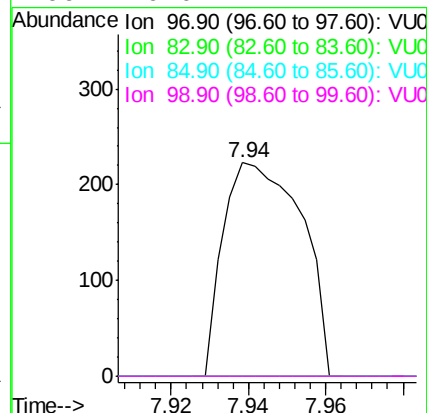
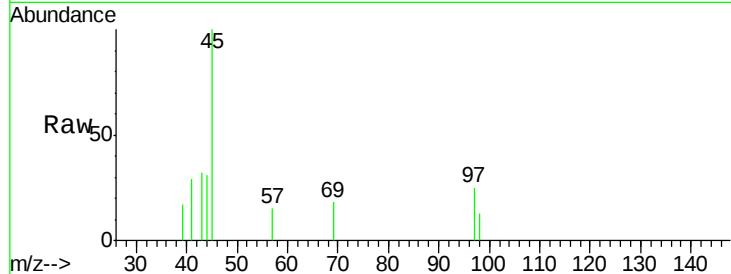




#55  
 1,1,2-Trichloroethane  
 Concen: 0.260 ug/l  
 RT: 7.94 min Scan# 2104  
 Delta R.T. -0.13 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

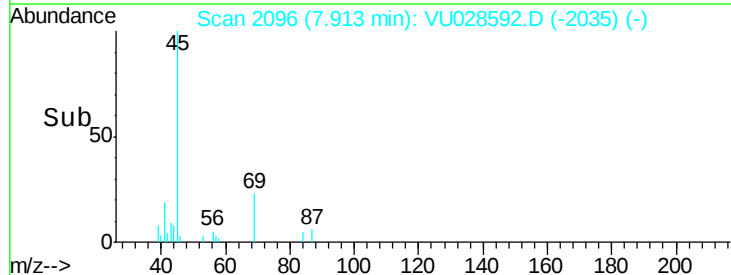
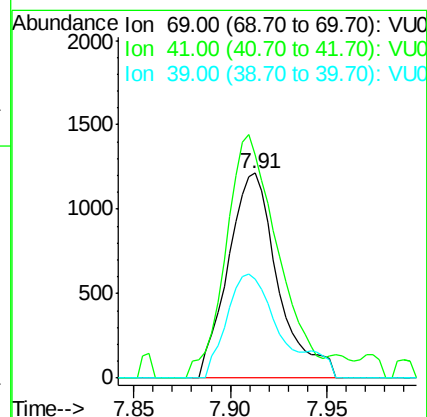
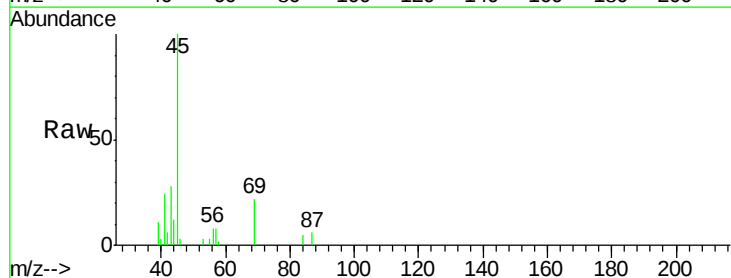
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

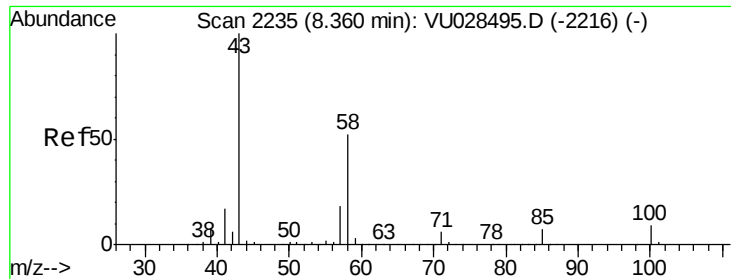
Tot Ion: 97 Resp: 314  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 72.4 108.6#  
 85 0.0 46.0 69.0#  
 99 0.0 47.4 71.2#



#56  
 Ethyl methacrylate  
 Concen: 1.052 ug/l  
 RT: 7.91 min Scan# 2096  
 Delta R.T. -0.10 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Tgt Ion: 69 Resp: 2173  
 Ion Ratio Lower Upper  
 69 100  
 41 123.9 59.1 88.7#  
 39 55.0 28.4 42.6#

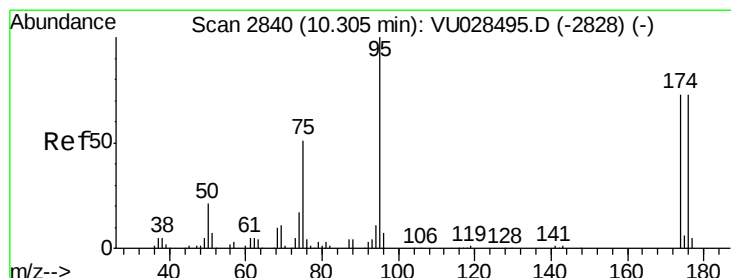
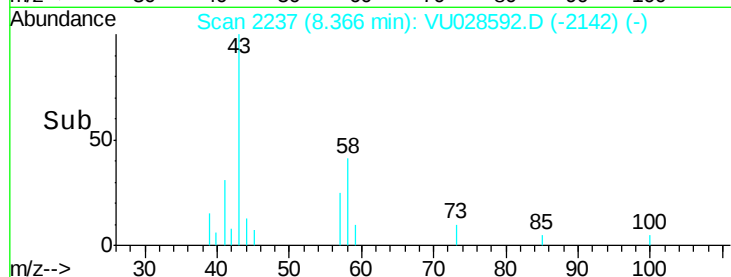
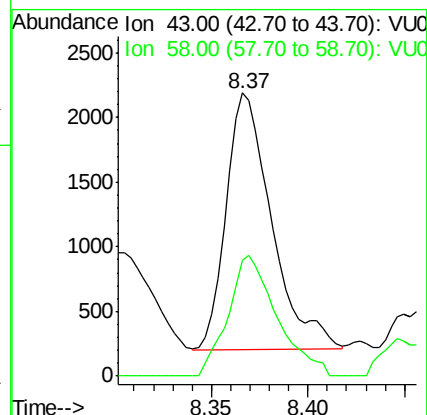
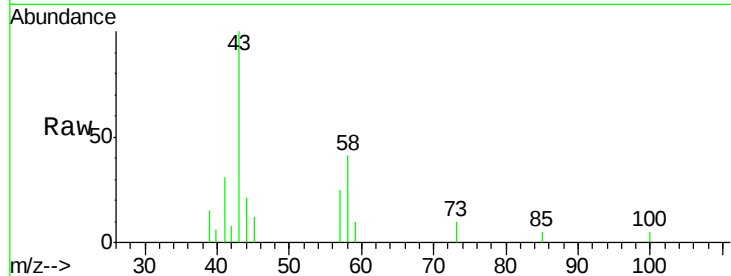




#59  
2-Hexanone  
Concen: 1.808 ug/l  
RT: 8.37 min Scan# 2237  
Delta R.T. 0.01 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

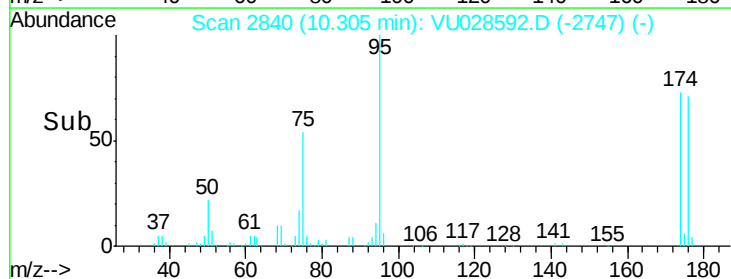
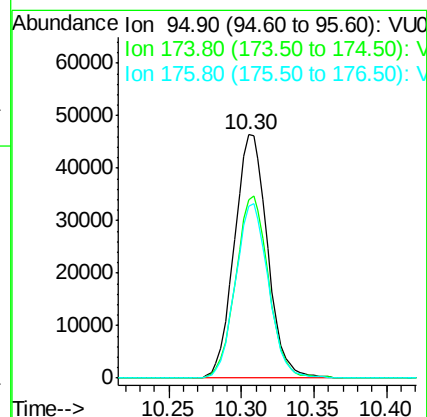
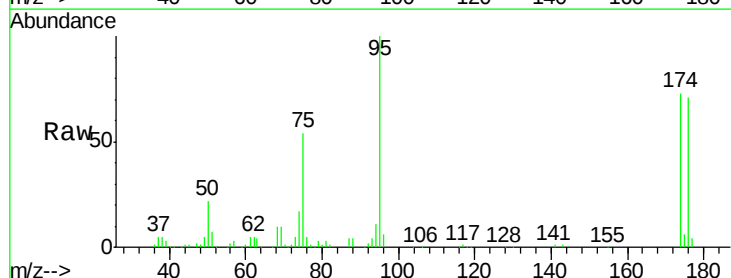
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

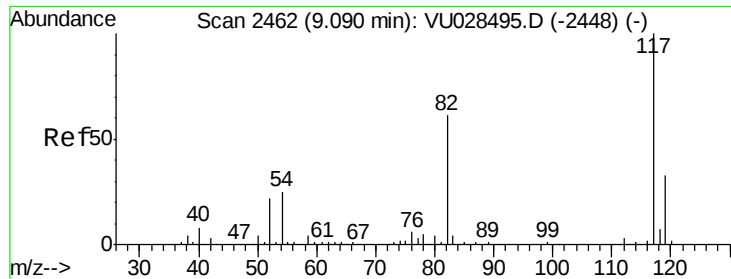
Tot Ion: 43 Resp: 3253  
Ion Ratio Lower Upper  
43 100  
58 50.1 25.9 77.6



#62  
4-Bromofluorobenzene  
Concen: 49.129 ug/l  
RT: 10.30 min Scan# 2840  
Delta R.T. -0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Tgt Ion: 95 Resp: 73519  
Ion Ratio Lower Upper  
95 100  
174 74.1 0.0 150.4  
176 71.2 0.0 145.2

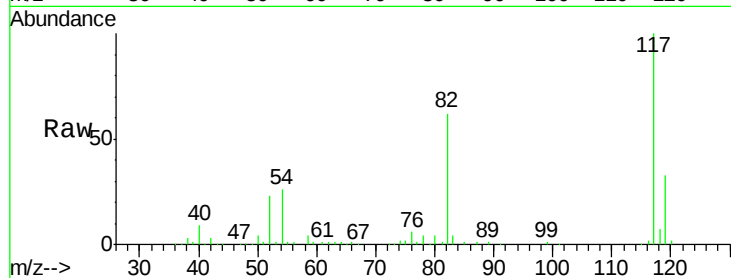




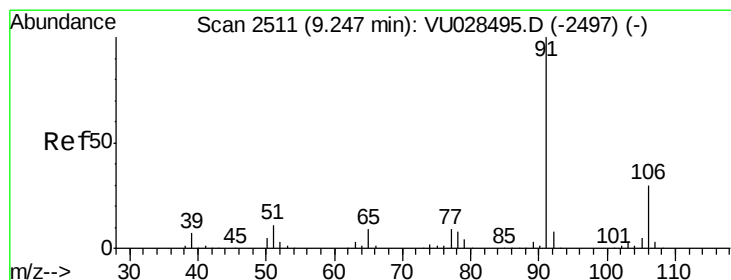
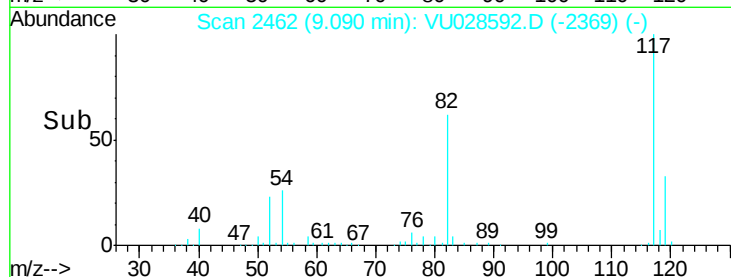
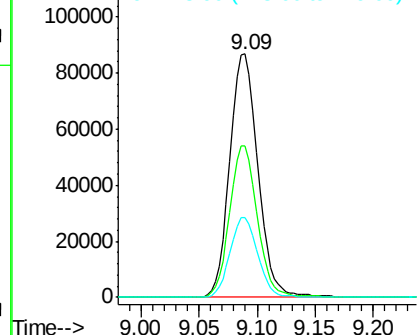
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

Tot Ion:117 Resp: 145947  
Ion Ratio Lower Upper  
117 100  
82 62.0 48.9 73.3  
119 32.9 26.2 39.4

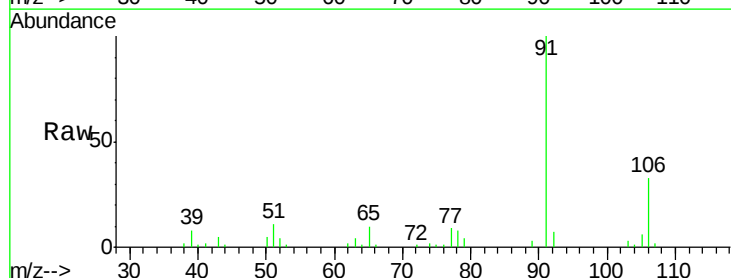


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

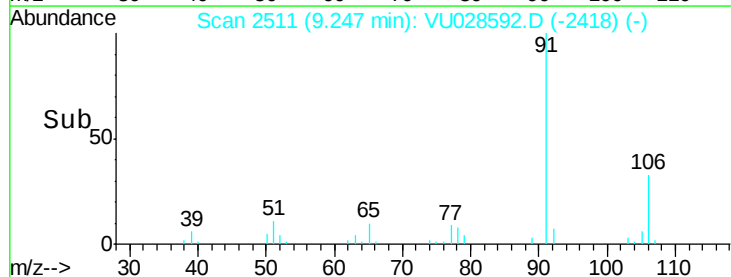
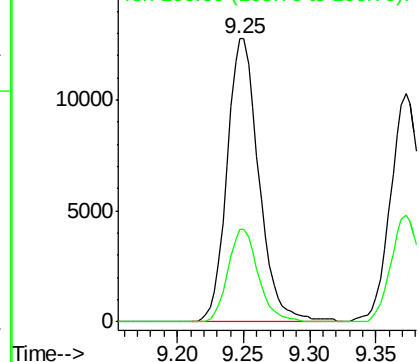


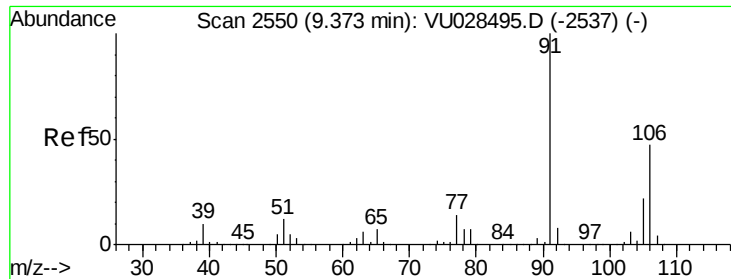
#67  
Ethyl Benzene  
Concen: 3.730 ug/l  
RT: 9.25 min Scan# 2511  
Delta R.T. -0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Tgt Ion: 91 Resp: 21326  
Ion Ratio Lower Upper  
91 100  
106 32.5 24.1 36.1



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

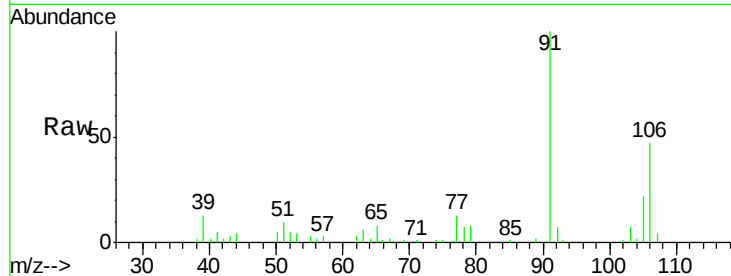




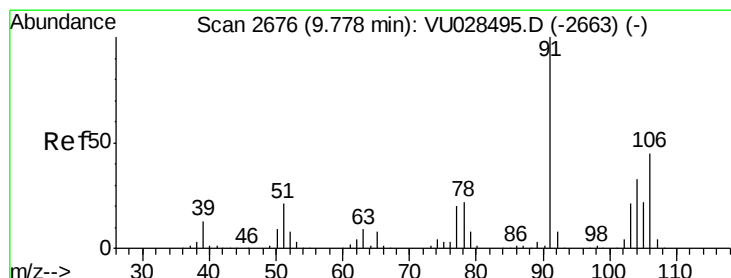
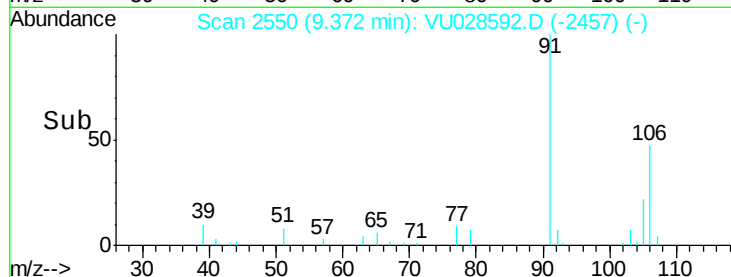
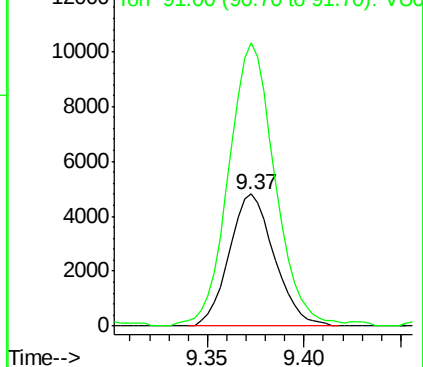
#68  
m/p-Xylenes  
Concen: 3.737 ug/l  
RT: 9.37 min Scan# 2550  
Delta R.T. -0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

Tot Ion:106 Resp: 7774  
Ion Ratio Lower Upper  
106 100  
91 220.6 167.4 251.0

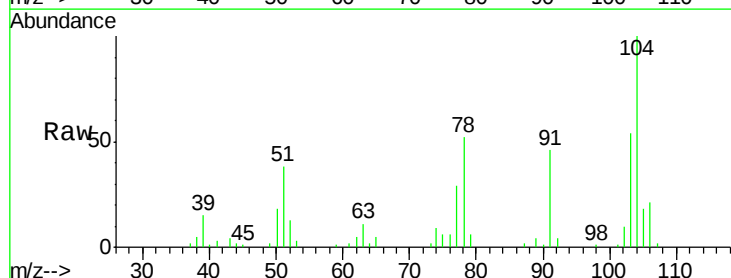


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

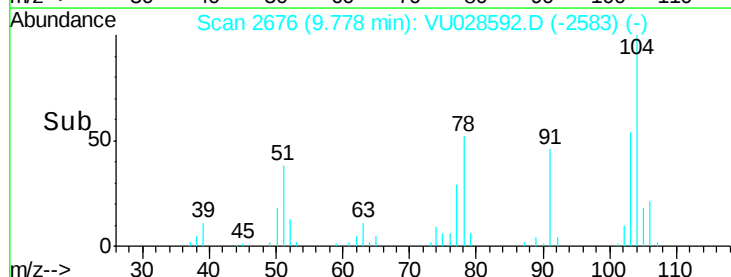
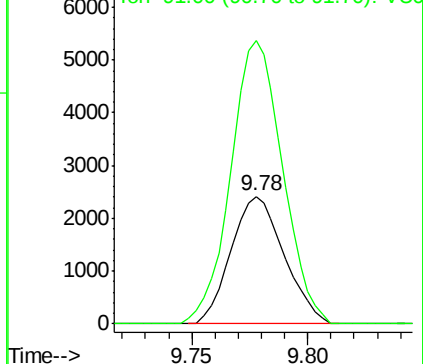


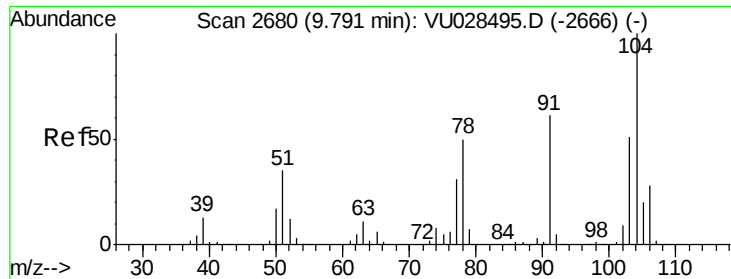
#69  
o-Xylene  
Concen: 1.901 ug/l  
RT: 9.78 min Scan# 2676  
Delta R.T. -0.00 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Tgt Ion:106 Resp: 3843  
Ion Ratio Lower Upper  
106 100  
91 216.3 111.3 334.0



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





#70

Stvrene

Concen: 14.743 ug/l

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

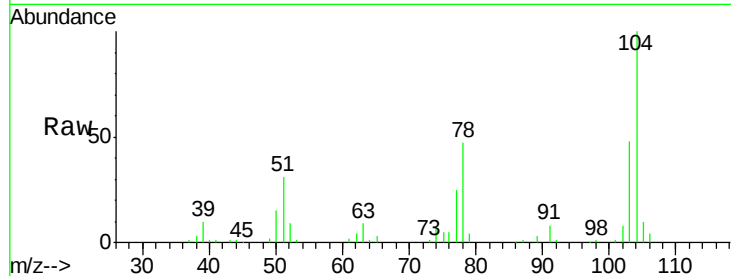
Tot Ion:104 Resp: 49325

Ion Ratio Lower Upper

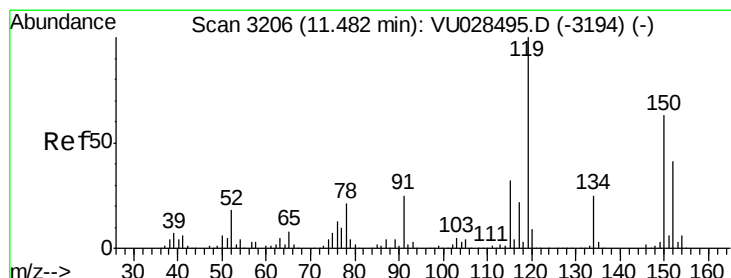
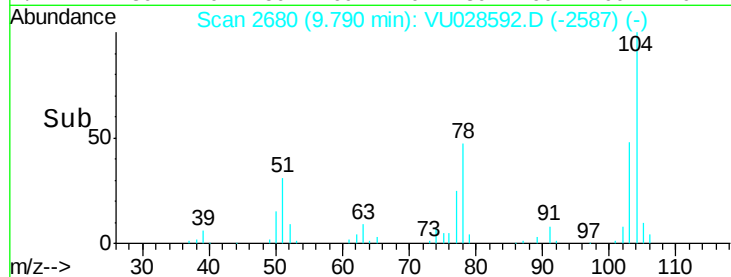
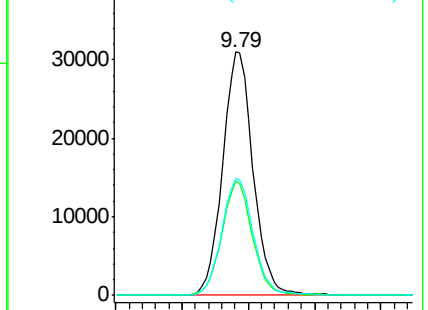
104 100

78 46.8 43.0 64.6

103 50.1 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): V  
Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

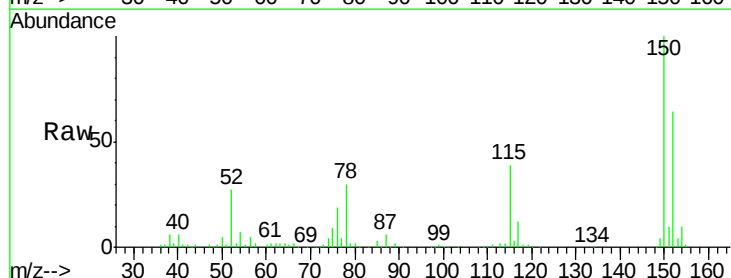
Tgt Ion:152 Resp: 63982

Ion Ratio Lower Upper

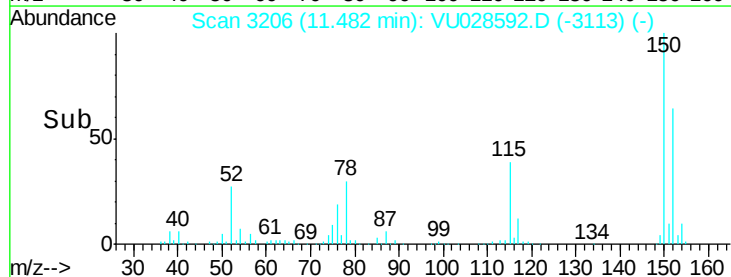
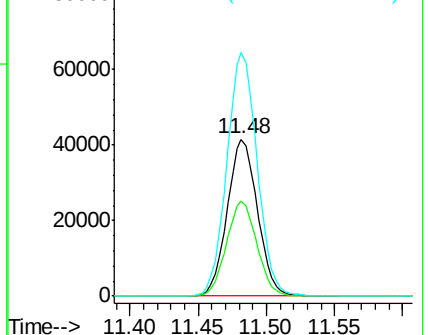
152 100

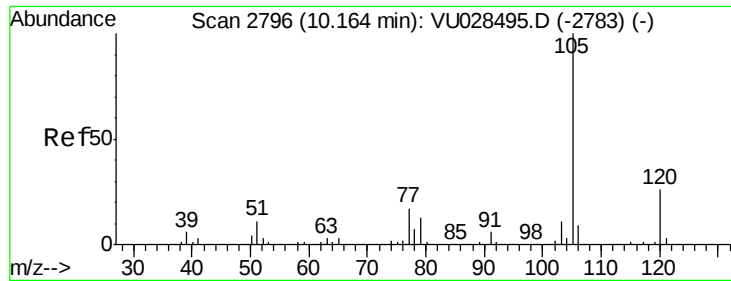
115 60.5 42.7 128.1

150 155.6 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: 0.383 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

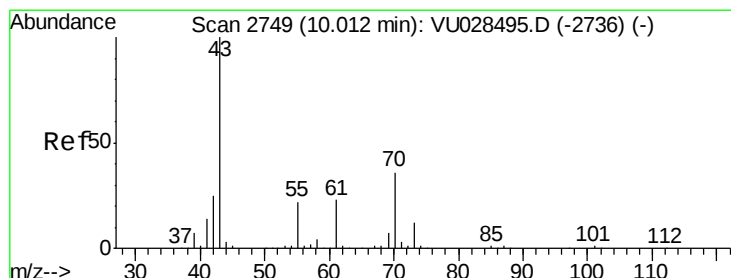
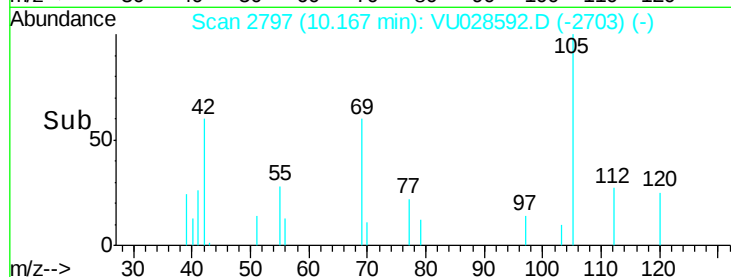
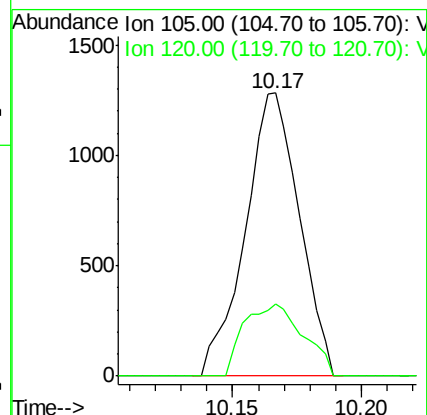
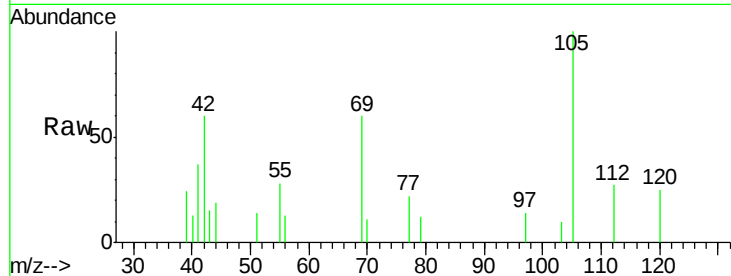
P001-SW005-01

Tot Ion: 105 Resp: 1879

Ion Ratio Lower Upper

105 100

120 27.8 12.9 38.6



#74

N-ethyl acetate

Concen: 0.405 ug/l

RT: 10.07 min Scan# 2767

Delta R.T. 0.06 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Tgt Ion: 43 Resp: 1146

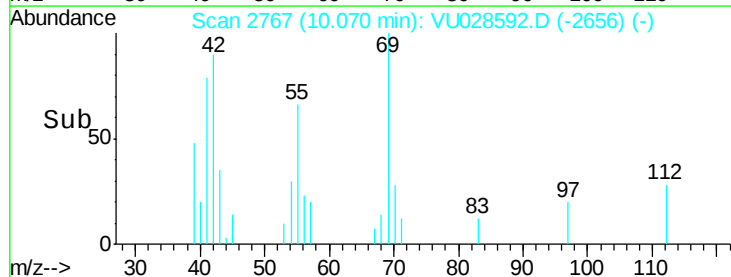
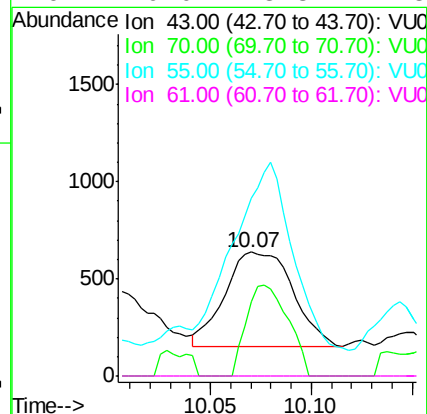
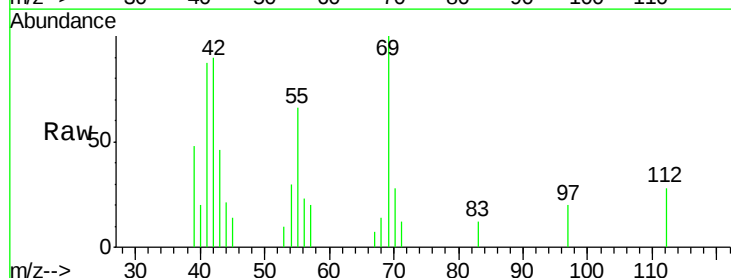
Ion Ratio Lower Upper

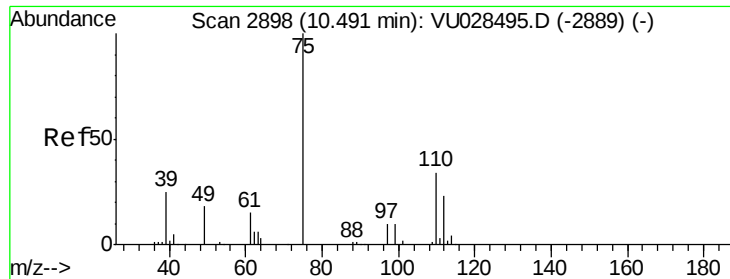
43 100

70 59.3 29.3 43.9#

55 225.7 18.0 27.0#

61 0.0 18.3 27.5#

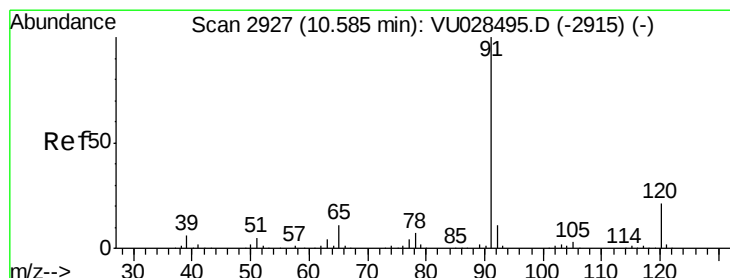
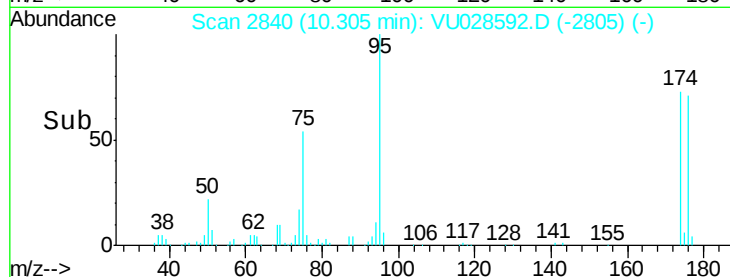
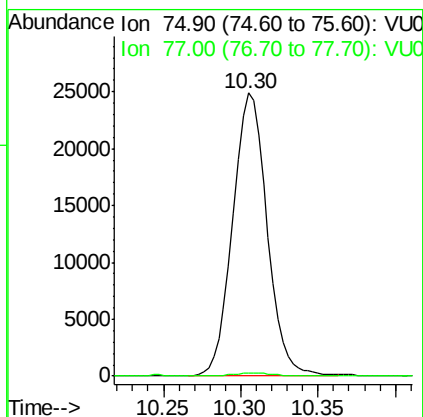
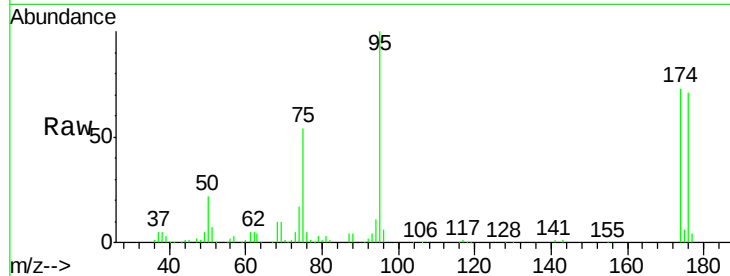




#76  
1,2,3-Trichloropropane  
Concen: 23.551 ug/l  
RT: 10.30 min Scan# 2840  
Delta R.T. -0.19 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

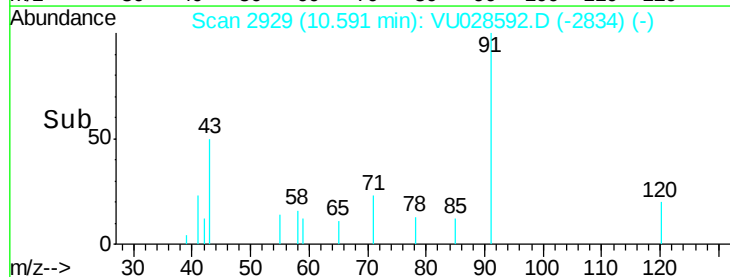
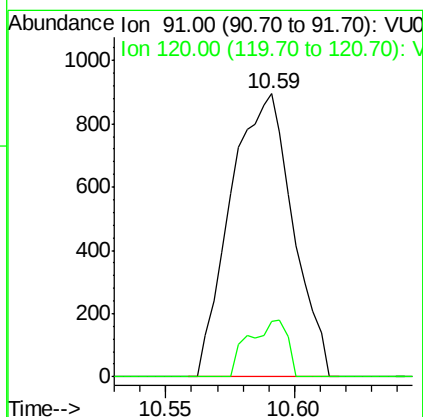
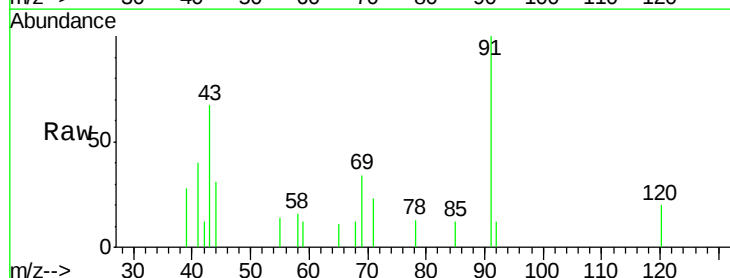
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

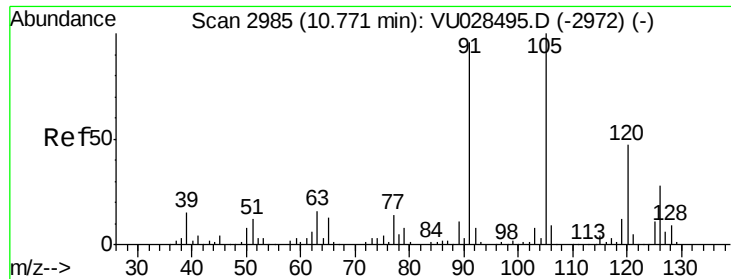
Tot Ion: 75 Resp: 38478  
Ion Ratio Lower Upper  
75 100  
77 1.2 20.8 62.4#



#78  
n-propylbenzene  
Concen: 0.247 ug/l  
RT: 10.59 min Scan# 2929  
Delta R.T. 0.01 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Tgt Ion: 91 Resp: 1508  
Ion Ratio Lower Upper  
91 100  
120 12.4 10.6 31.8





#80

1,3,5-Trimethylbenzene

Concen: 0.766 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA\_U

ClientSampleId :

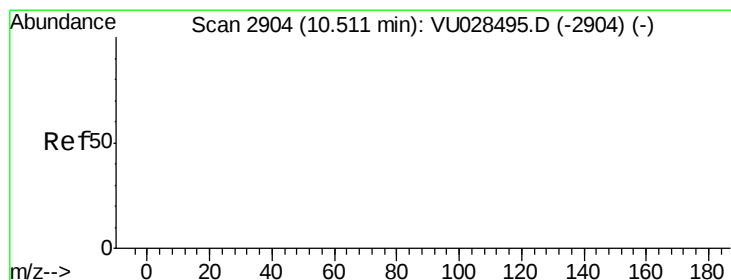
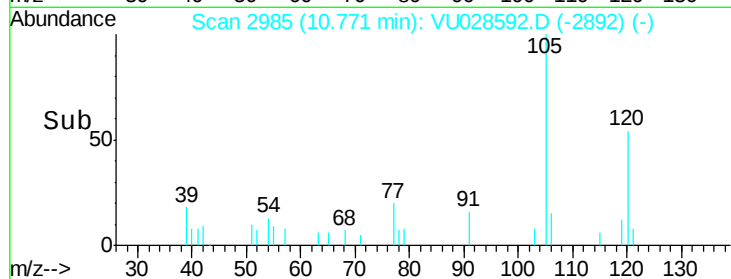
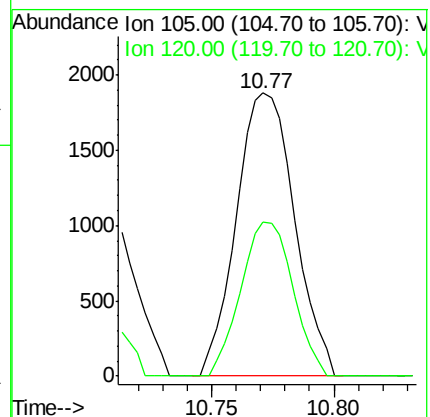
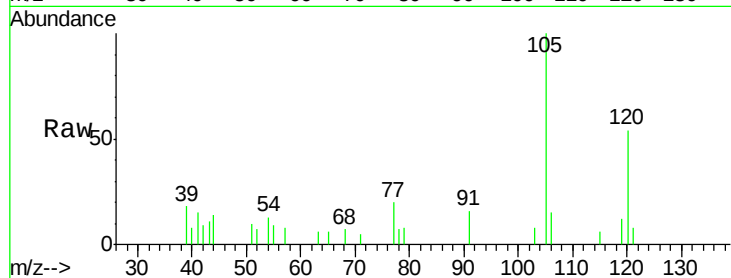
P001-SW005-01

Tot Ion:105 Resp: 3113

Ion Ratio Lower Upper

105 100

120 48.6 23.7 71.1



#81

trans-1,4-Dichloro-2-butene

Concen: 57.822 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

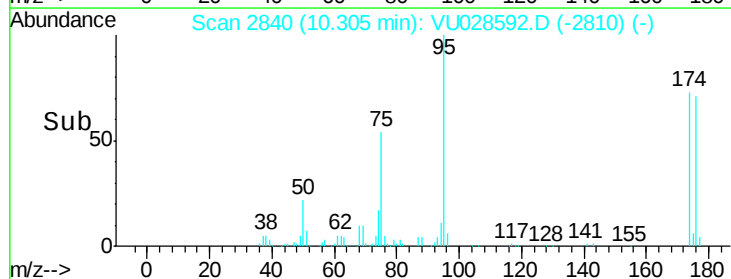
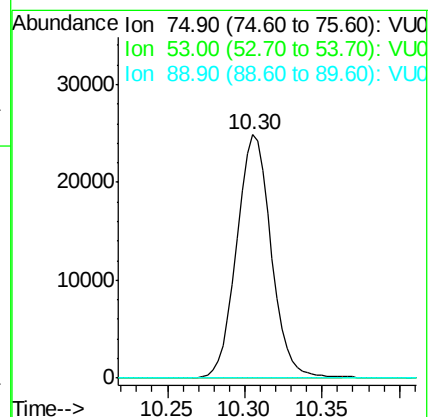
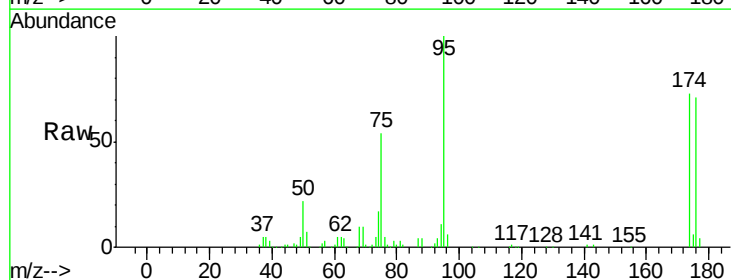
Tgt Ion: 75 Resp: 38478

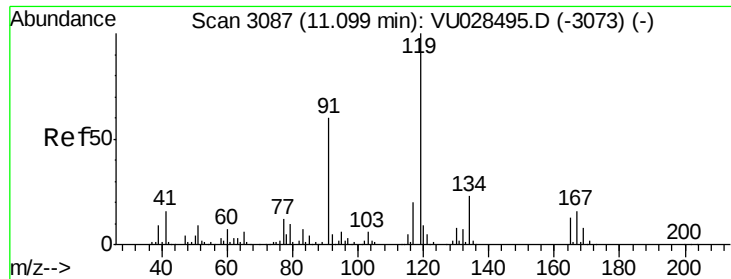
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

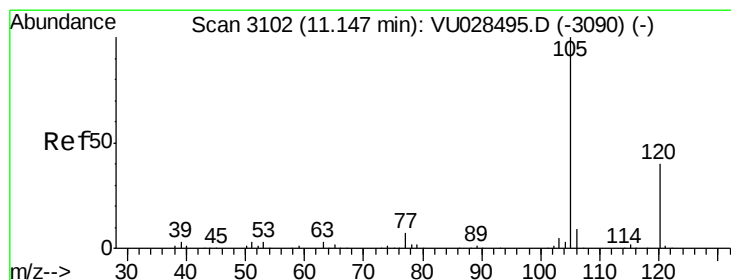
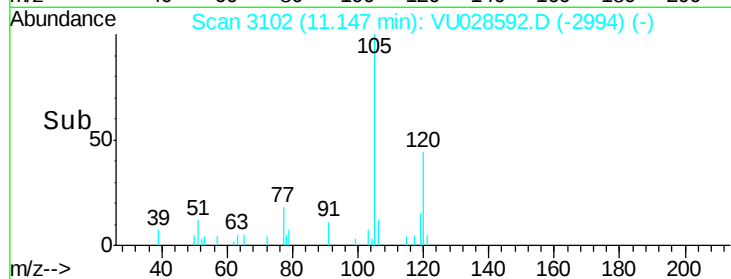
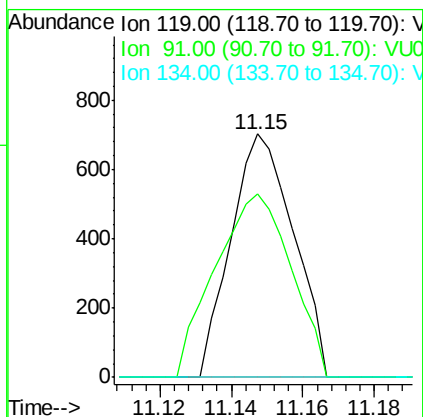
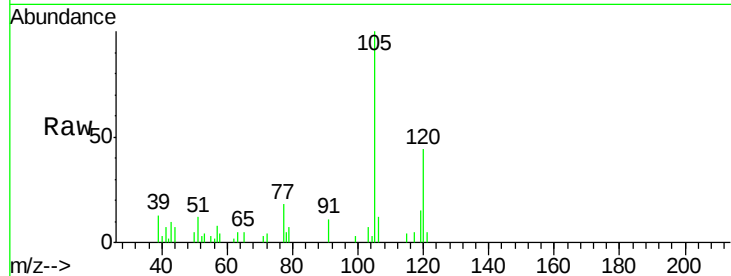




#83  
 tert-Butylbenzene  
 Concen: 0.216 ug/l  
 RT: 11.15 min Scan# 3102  
 Delta R.T. 0.05 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

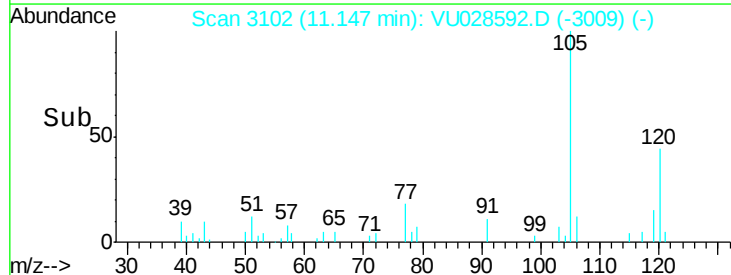
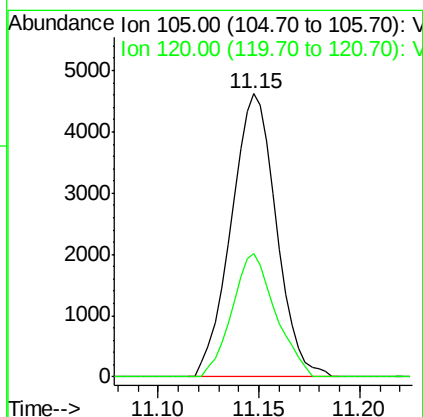
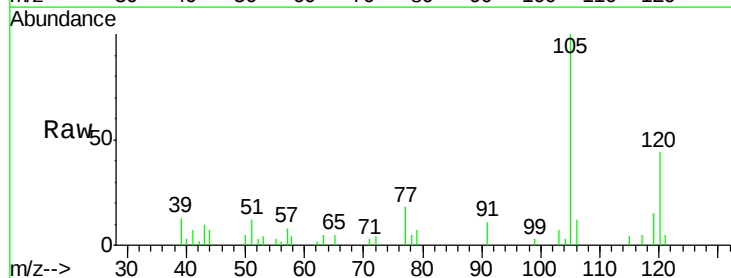
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

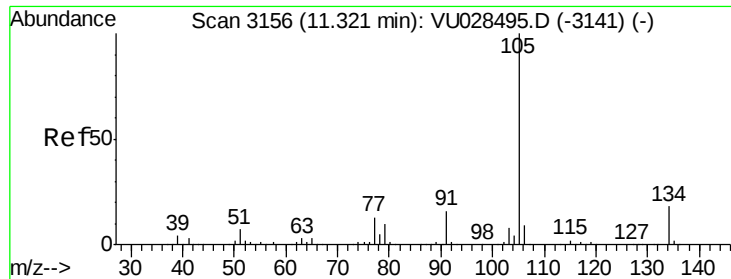
Tot Ion:119 Resp: 848  
 Ion Ratio Lower Upper  
 119 100  
 91 91.7 30.3 91.0#  
 134 0.0 11.2 33.5#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.728 ug/l  
 RT: 11.15 min Scan# 3102  
 Delta R.T. -0.00 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Tgt Ion:105 Resp: 7236  
 Ion Ratio Lower Upper  
 105 100  
 120 41.9 21.8 65.4

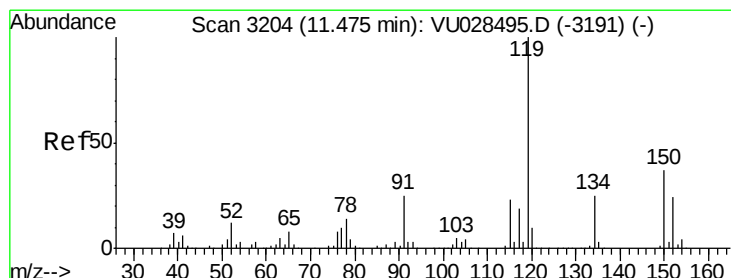
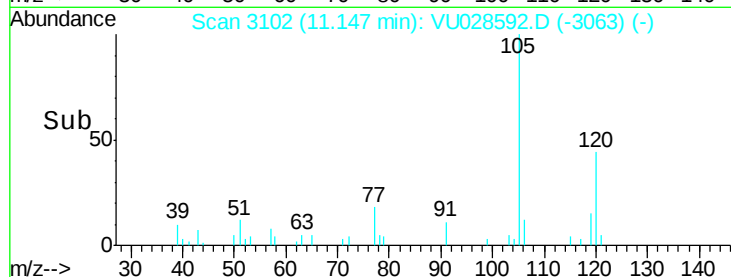
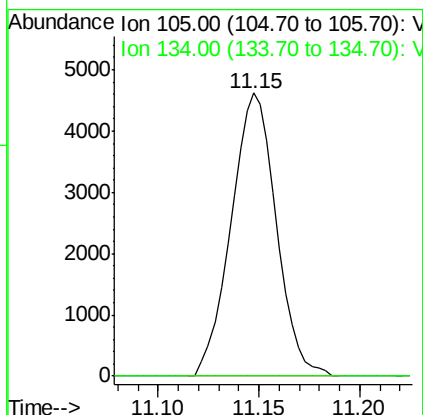
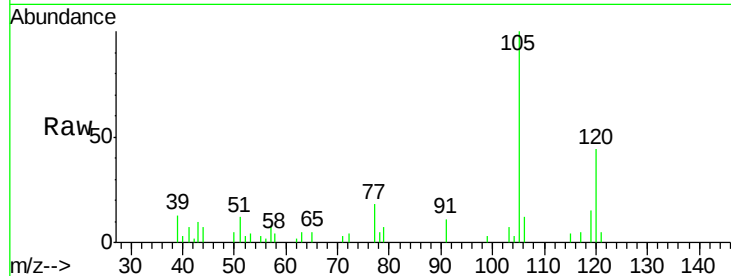




#85  
 sec-Butylbenzene  
 Concen: 1.438 ug/l  
 RT: 11.15 min Scan# 3102  
 Delta R.T. -0.17 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

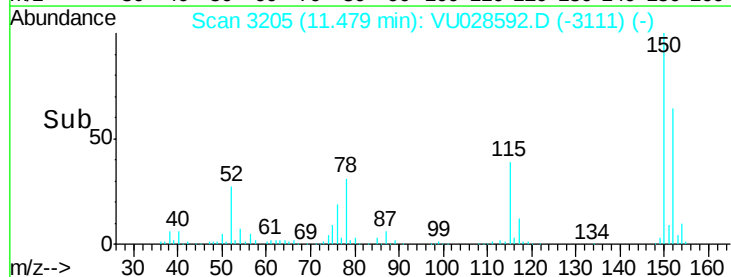
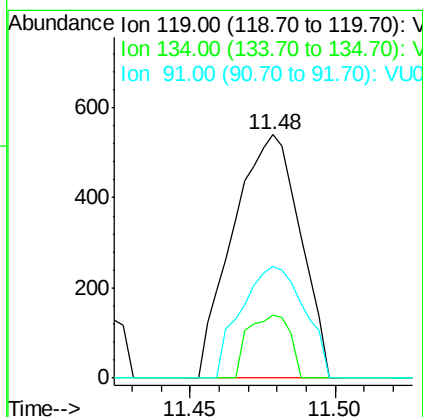
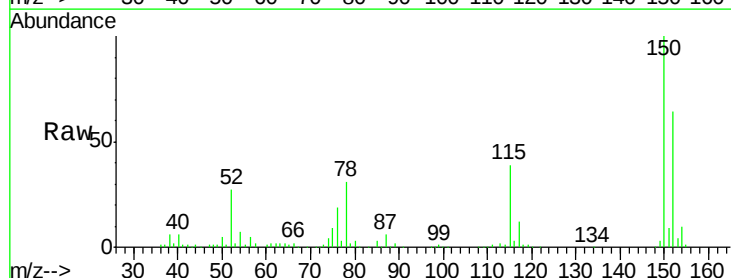
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

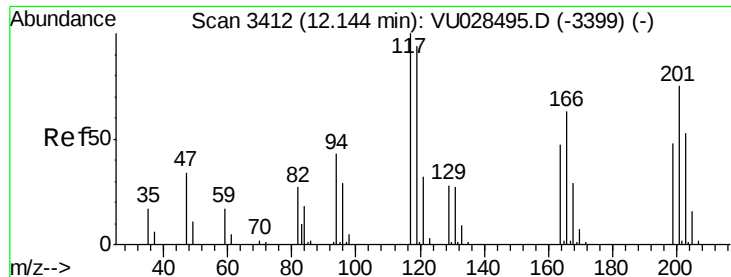
Tot Ion:105 Resp: 7236  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 9.2 27.6#



#86  
 p-Isopropyltoluene  
 Concen: 0.203 ug/l  
 RT: 11.48 min Scan# 3205  
 Delta R.T. 0.00 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Tgt Ion:119 Resp: 868  
 Ion Ratio Lower Upper  
 119 100  
 134 16.1 12.7 38.1  
 91 43.3 12.6 37.6#

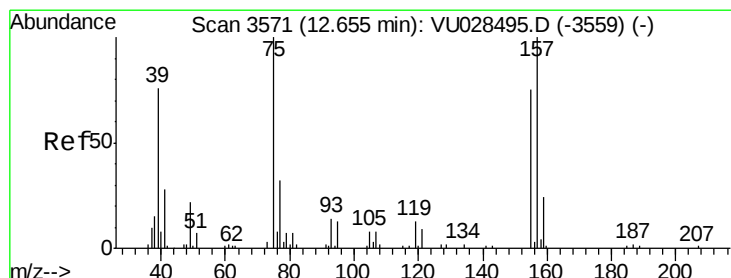
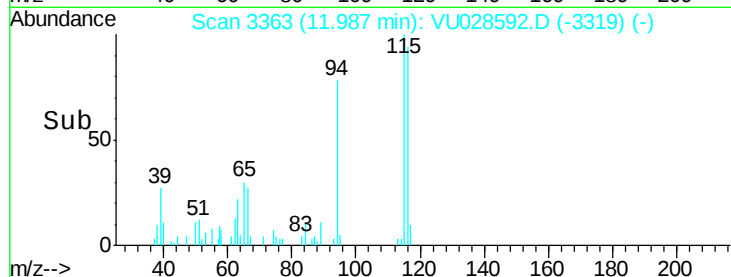
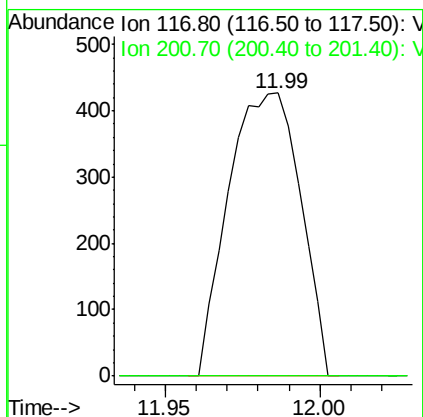
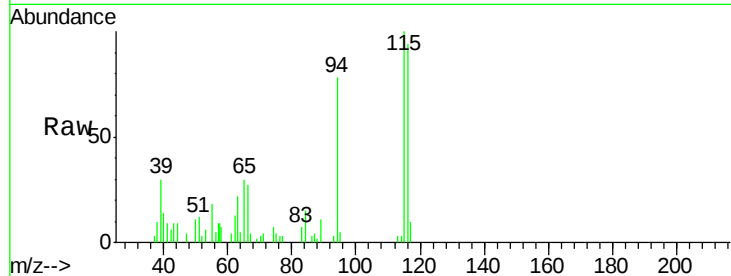




#90  
Hexachloroethane  
Concen: 1.066 ug/l  
RT: 11.99 min Scan# 3363  
Delta R.T. -0.16 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

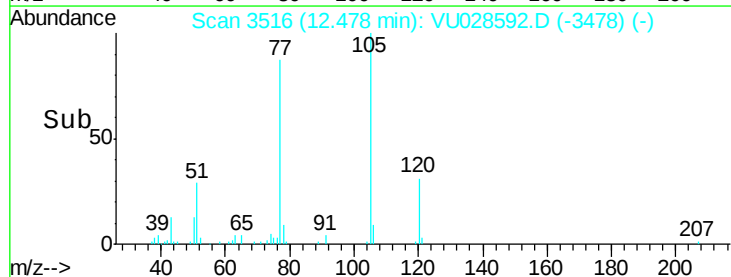
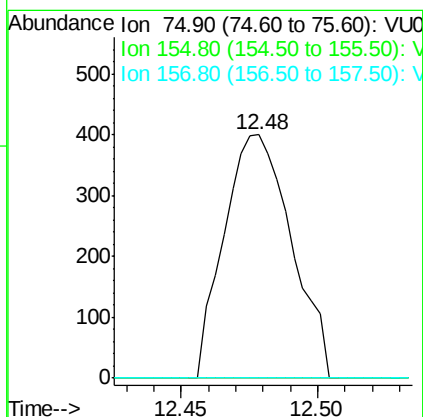
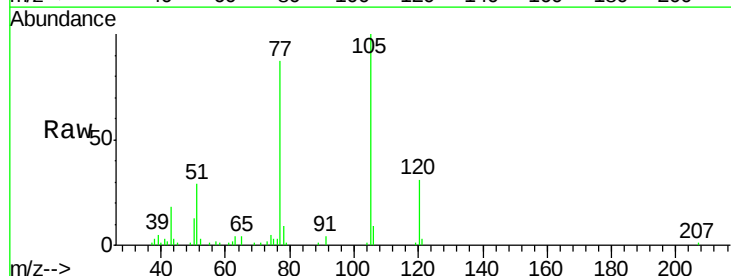
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW005-01

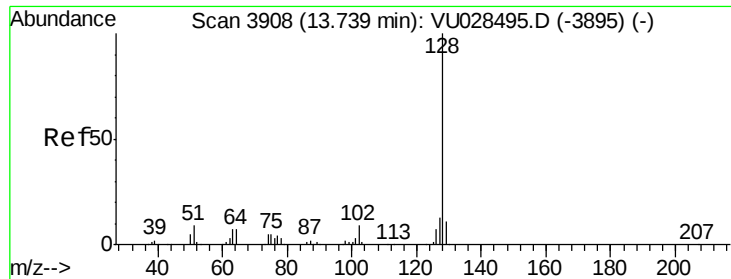
Tot Ion:117 Resp: 689  
Ion Ratio Lower Upper  
117 100  
201 0.0 38.1 114.5#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.675 ug/l  
RT: 12.48 min Scan# 3516  
Delta R.T. -0.18 min  
Lab File: VU028592.D  
Acq: 11 Dec 2018 08:29

Tgt Ion: 75 Resp: 684  
Ion Ratio Lower Upper  
75 100  
155 0.0 38.1 114.5#  
157 0.0 48.7 146.1#

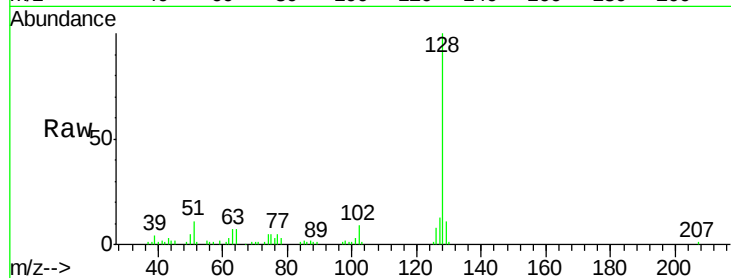




#95  
 Naphthalene  
 Concen: 6.458 ug/l  
 RT: 13.74 min Scan# 3909  
 Delta R.T. 0.00 min  
 Lab File: VU028592.D  
 Acq: 11 Dec 2018 08:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW005-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.5  | 10.4  | 15.6  |
| 129     | 10.3  | 8.6   | 13.0  |



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

