

Data Path : W:\HPCHEM1\MSVOA\_F\DATA\VF022318\  
 Data File : VF056652.D  
 Acq On : 23 Feb 2018 13:21  
 Operator : JC/SY  
 Sample : J1634-01  
 Misc : 6.57g/5mL/MSVOA-F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 RO-72-11931

Quant Time: Feb 24 00:45:27 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_F\METHODS\82F022018S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 21 08:56:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.79  | 168  | 367658   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.52  | 114  | 605257   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.69  | 117  | 430816   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.48 | 152  | 220240   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 4.76   | 65  | 219792   | 49.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.90%  |      |
| 35) Dibromofluoromethane  | 4.03   | 113 | 221828   | 48.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.46%  |      |
| 50) Toluene-d8            | 7.48   | 98  | 548415   | 40.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 80.38%  |      |
| 62) 4-Bromofluorobenzene  | 11.34  | 95  | 349851   | 56.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.74% |      |

## Target Compounds

|                                |       |     |         |        |        | Qvalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 6) Chloroethane                | 1.38  | 64  | 187     | 1.68   | ug/l # | 43     |
| 15) Acrylonitrile              | 2.86  | 53  | 888     | 1.17   | ug/l # | 17     |
| 16) Acetone                    | 2.18  | 43  | 91498   | 69.95  | ug/l   | 100    |
| 17) Carbon Disulfide           | 1.72  | 76  | 10941   | 1.76   | ug/l # | 89     |
| 18) Methyl Acetate             | 2.18  | 43  | 91498   | 34.23  | ug/l # | 64     |
| 20) Methylene Chloride         | 2.13  | 84  | 21541   | 8.65   | ug/l   | 96     |
| 25) 2-Butanone                 | 4.24  | 43  | 15579   | 6.70   | ug/l   | 99     |
| 28) Bromochloromethane         | 3.66  | 49  | 93      | Below  | Cal #  | 10     |
| 31) Cyclohexane                | 3.64  | 56  | 10913   | 2.00   | ug/l   | 85     |
| 39) Methylcyclohexane          | 5.39  | 83  | 28884   | 4.69   | ug/l # | 83     |
| 43) Isopropyl Acetate          | 6.98  | 43  | 14567   | 2.33   | ug/l # | 42     |
| 48) Methyl methacrylate        | 6.53  | 41  | 23767   | 6.49   | ug/l # | 52     |
| 49) 1,4-Dioxane                | 6.69  | 88  | 82      | 2.17   | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.22  | 43  | 274920  | 64.33  | ug/l # | 43     |
| 55) 1,1,2-Trichloroethane      | 8.33  | 97  | 48054   | 12.60  | ug/l # | 52     |
| 56) Ethyl methacrylate         | 8.57  | 69  | 458866  | 92.15  | ug/l # | 74     |
| 59) 2-Hexanone                 | 9.35  | 43  | 46040   | 13.27  | ug/l # | 29     |
| 65) Chlorobenzene              | 9.68  | 112 | 10283   | 1.22   | ug/l # | 41     |
| 67) Ethyl Benzene              | 9.81  | 91  | 16303   | 1.13   | ug/l   | 97     |
| 73) Isopropylbenzene           | 11.06 | 105 | 2361052 | 162.76 | ug/l   | 99     |
| 74) N-amyl acetate             | 11.34 | 43  | 135175  | 20.83  | ug/l # | 1      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.62 | 83  | 295755  | 67.39  | ug/l # | 35     |
| 78) n-propylbenzene            | 11.53 | 91  | 1381853 | 77.32  | ug/l   | 97     |
| 79) 2-Chlorotoluene            | 11.53 | 91  | 1381853 | 131.30 | ug/l # | 40     |
| 80) 1,3,5-Trimethylbenzene     | 11.66 | 105 | 72362   | 6.02   | ug/l   | 65     |
| 82) 4-Chlorotoluene            | 11.82 | 91  | 35296   | 3.08   | ug/l   | 100    |
| 83) tert-Butylbenzene          | 12.07 | 119 | 62530   | 5.37   | ug/l # | 38     |
| 84) 1,2,4-Trimethylbenzene     | 12.15 | 105 | 15094   | 1.20   | ug/l # | 64     |
| 85) sec-Butylbenzene           | 12.25 | 105 | 474621  | 29.62  | ug/l # | 67     |
| 86) p-Isopropyltoluene         | 12.38 | 119 | 70887   | 5.51   | ug/l # | 5      |
| 89) n-Butylbenzene             | 12.78 | 91  | 543568  | 44.31  | ug/l   | 89     |
| 91) 1,2-Dichlorobenzene        | 12.83 | 146 | 7262    | 1.05   | ug/l # | 1      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.58 | 75  | 6078    | 7.43   | ug/l # | 31     |
| 93) 1,2,4-Trichlorobenzene     | 14.13 | 180 | 13777   | 2.92   | ug/l # | 1      |

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
RO-72-11931

Quant Time: Feb 24 00:45:27 2018  
Quant Method : W:\HPCHEM1\MSVOA\_F\METHODS\82F022018S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 21 08:56:21 2018  
Response via : Initial Calibration

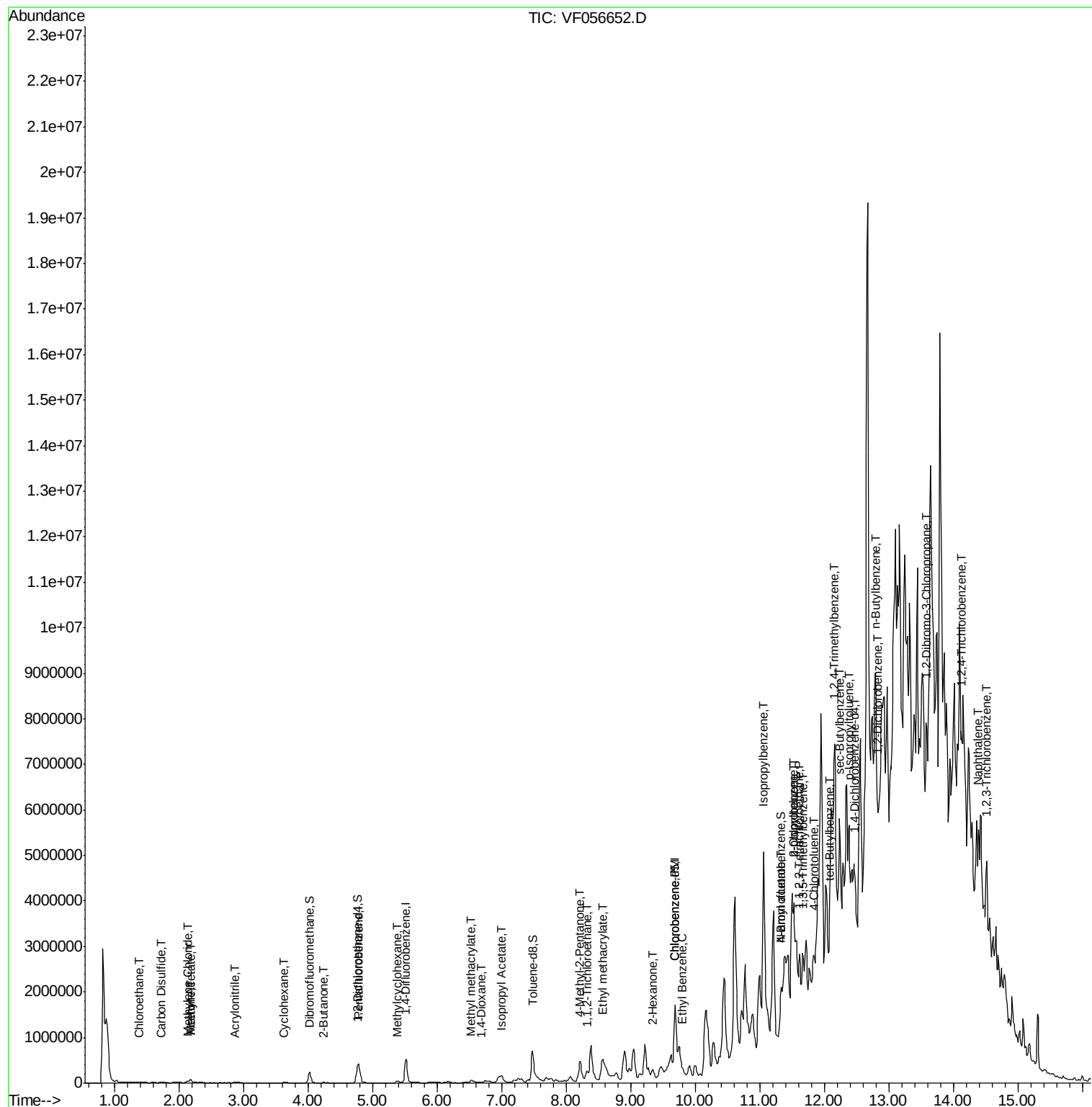
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 95) Naphthalene            | 14.38 | 128  | 129976   | 10.96 | ug/l # | 58       |
| 96) 1,2,3-Trichlorobenzene | 14.52 | 180  | 26077    | 5.73  | ug/l # | 1        |

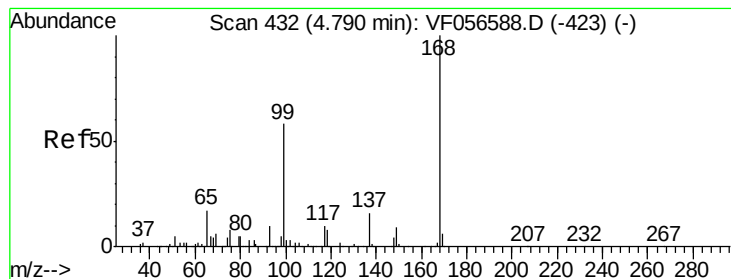
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.79 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

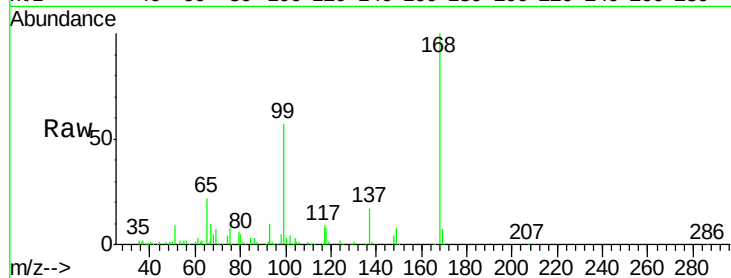
RO-72-11931

Tgt Ion:168 Resp: 367658

Ion Ratio Lower Upper

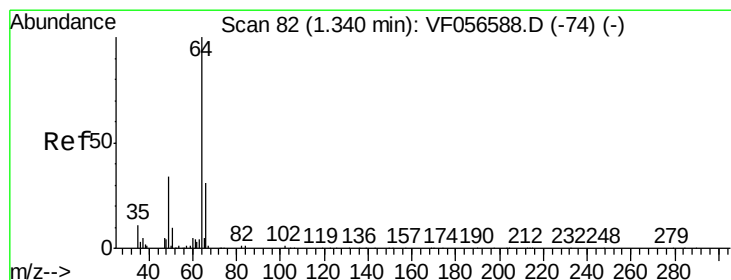
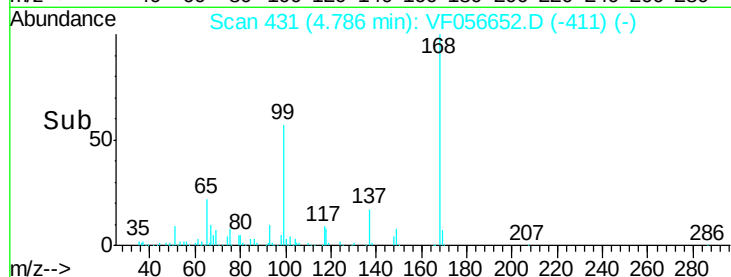
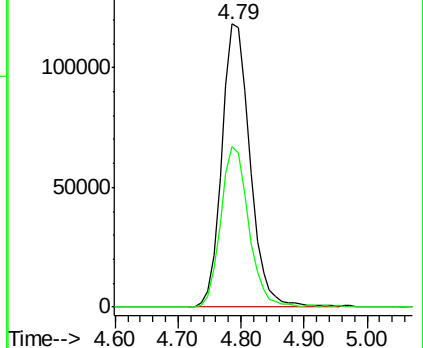
168 100

99 56.9 46.2 69.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#6

Chloroethane

Concen: 1.68 ug/l

RT: 1.38 min Scan# 85

Delta R.T. 0.04 min

Lab File: VF056652.D

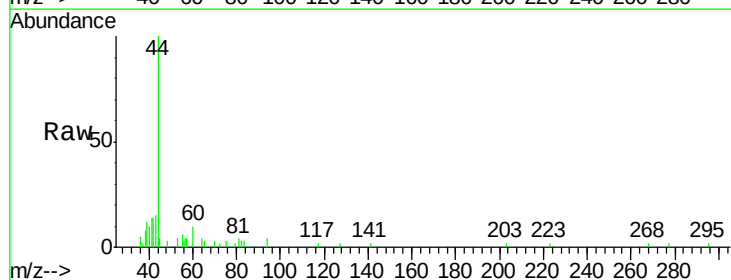
Acq: 23 Feb 2018 13:21

Tgt Ion: 64 Resp: 187

Ion Ratio Lower Upper

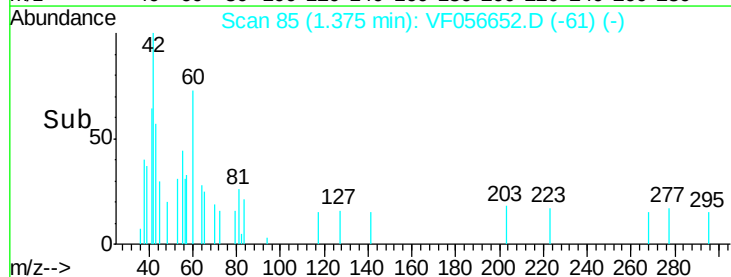
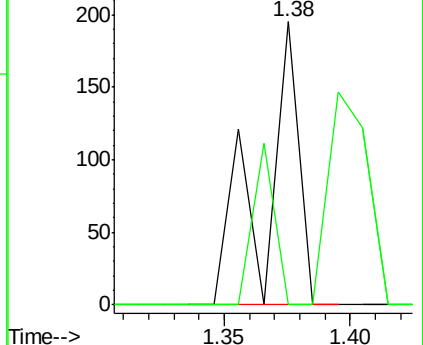
64 100

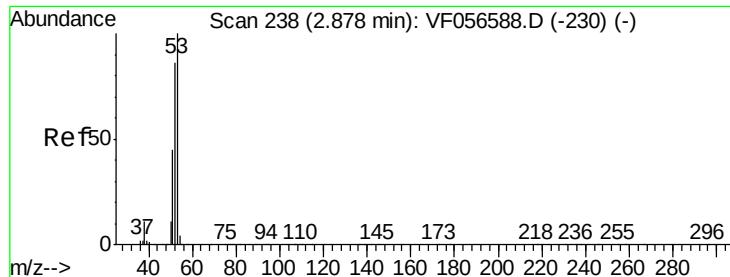
66 0.0 25.4 38.2#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#15

Acrylonitrile

Concen: 1.17 ug/l

RT: 2.86 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

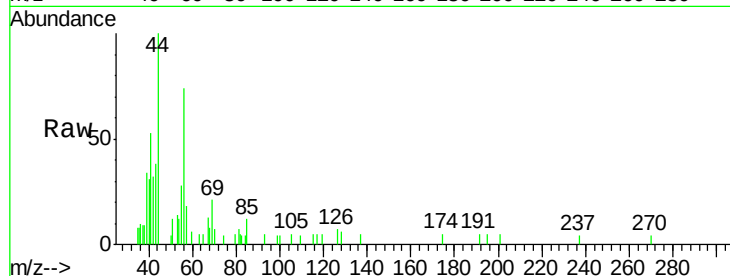
Tgt Ion: 53 Resp: 888

Ion Ratio Lower Upper

53 100

52 0.0 68.4 102.6#

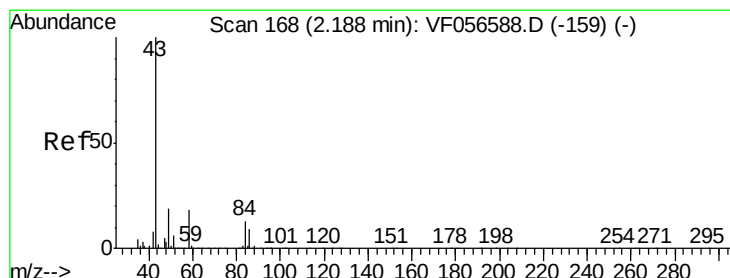
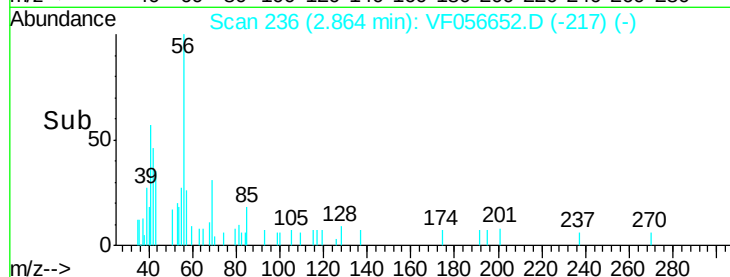
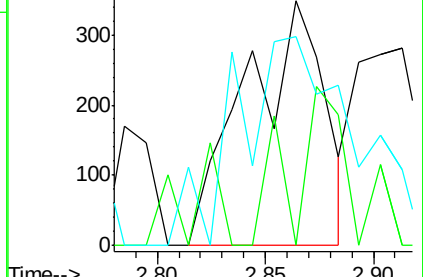
51 85.7 35.8 53.6#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 69.95 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.00 min

Lab File: VF056652.D

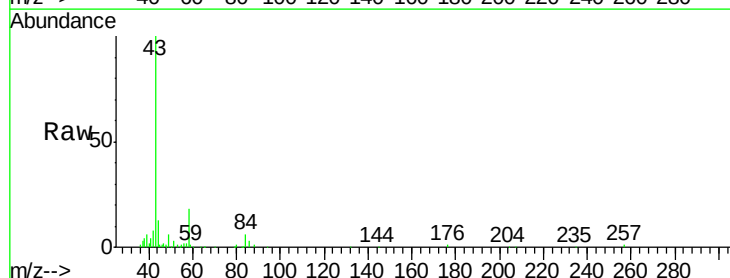
Acq: 23 Feb 2018 13:21

Tgt Ion: 43 Resp: 91498

Ion Ratio Lower Upper

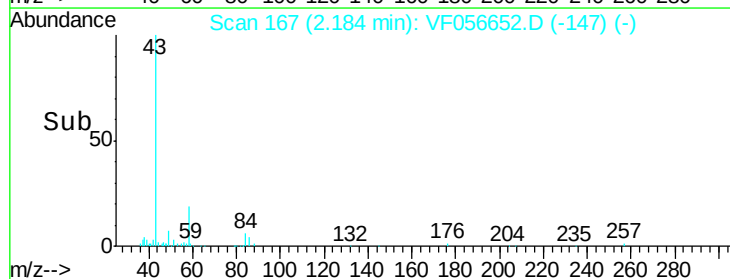
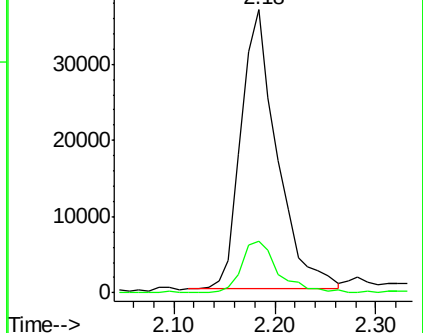
43 100

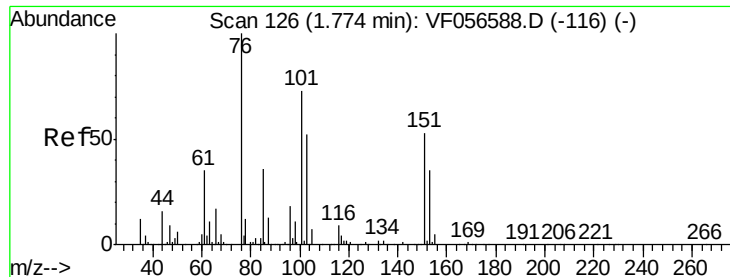
58 18.3 14.7 22.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 1.76 ug/l

RT: 1.72 min Scan# 120

Delta R.T. -0.05 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

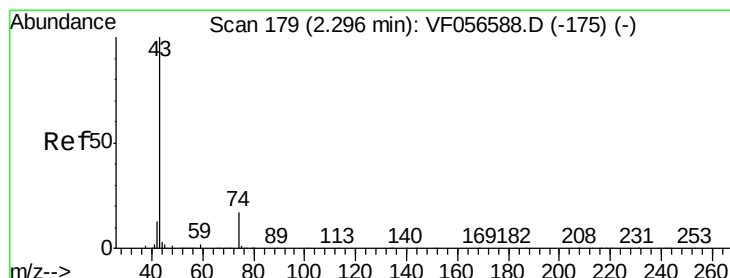
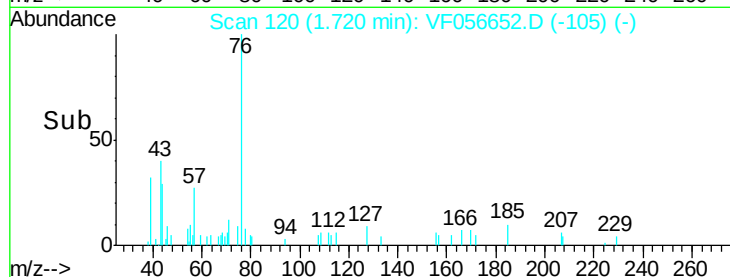
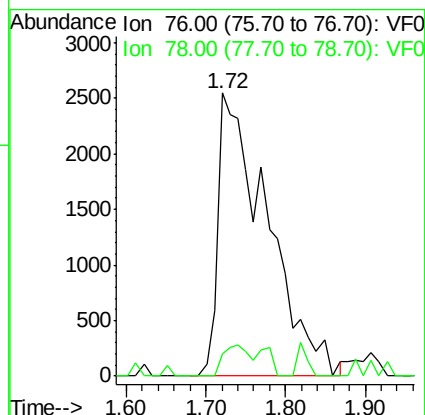
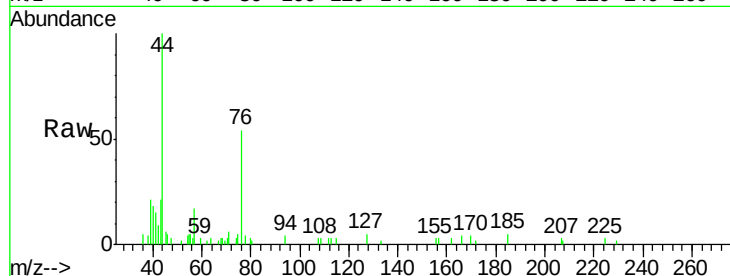
RO-72-11931

Tgt Ion: 76 Resp: 10941

Ion Ratio Lower Upper

76 100

78 7.7 9.5 14.3#



#18

Methyl Acetate

Concen: 34.23 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.11 min

Lab File: VF056652.D

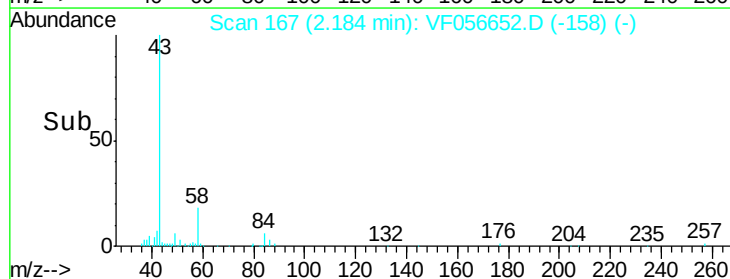
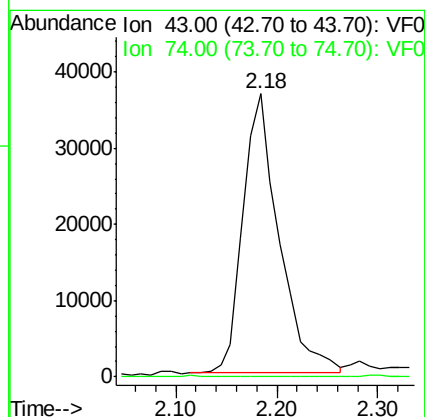
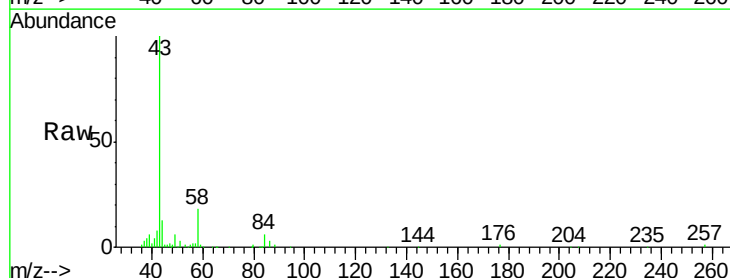
Acq: 23 Feb 2018 13:21

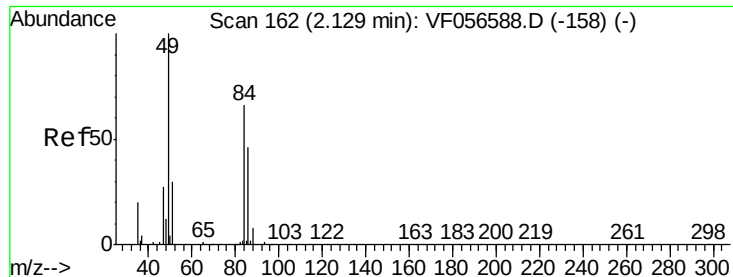
Tgt Ion: 43 Resp: 91498

Ion Ratio Lower Upper

43 100

74 0.0 12.0 18.0#

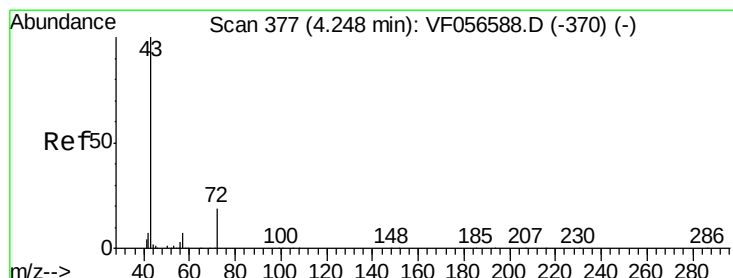
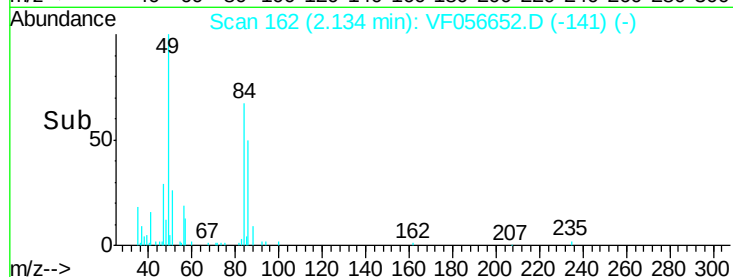
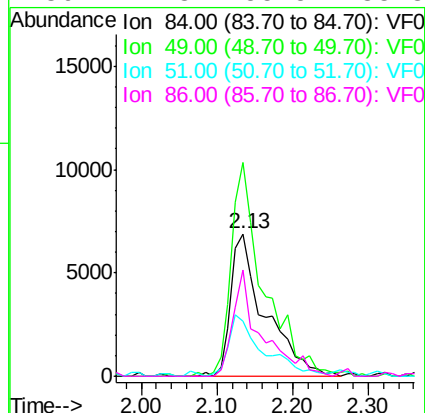
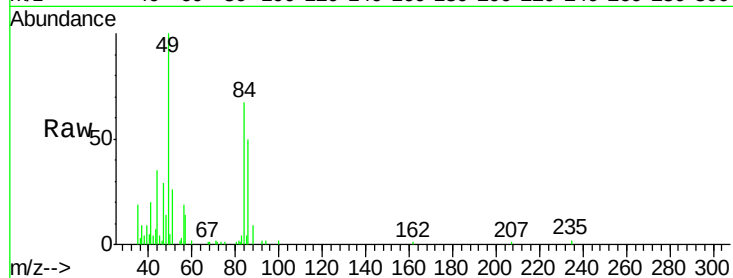




#20  
Methylene Chloride  
Concen: 8.65 ug/l  
RT: 2.13 min Scan# 162  
Delta R.T. 0.01 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

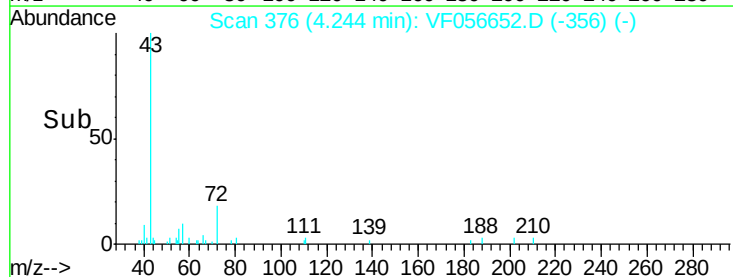
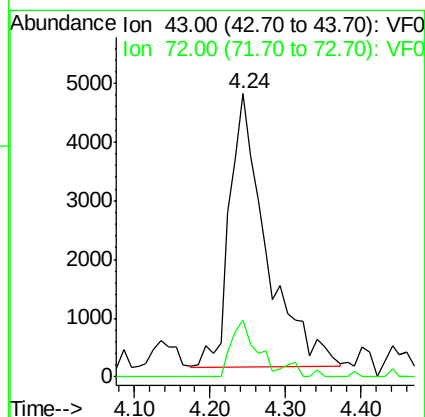
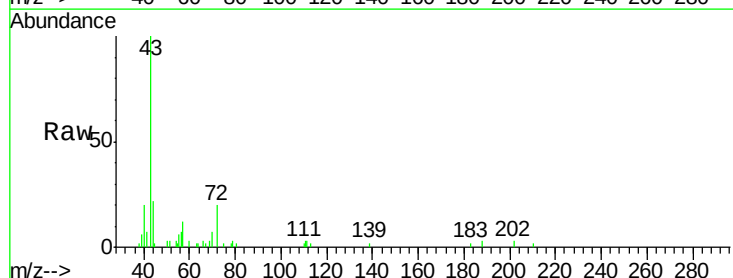
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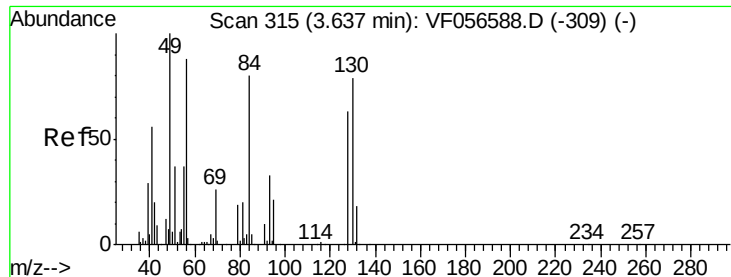
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 21541 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 150.0 | 121.4 | 182.0 |
| 51       | 38.8  | 37.1  | 55.7  |
| 86       | 74.8  | 55.5  | 83.3  |



#25  
2-Butanone  
Concen: 6.70 ug/l  
RT: 4.24 min Scan# 376  
Delta R.T. -0.00 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15579 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 20.1  | 16.5  | 24.7  |

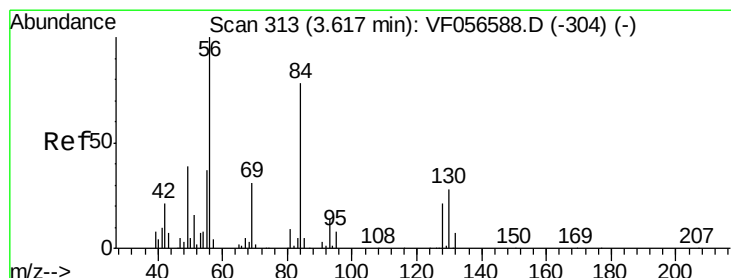
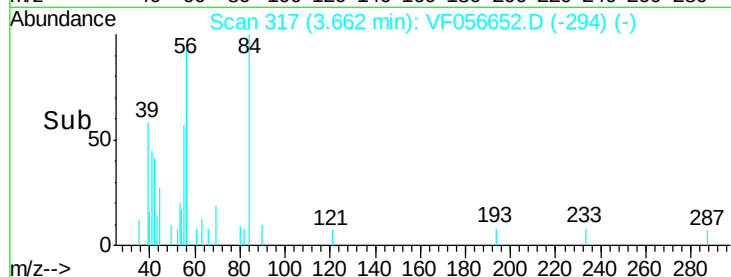
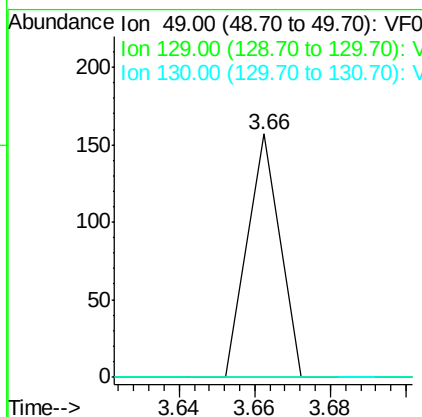
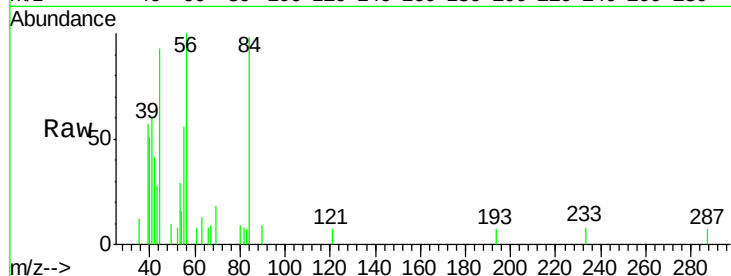




#28  
Bromochloromethane  
Concen: Below Cal  
RT: 3.66 min Scan# 317  
Delta R.T. 0.03 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

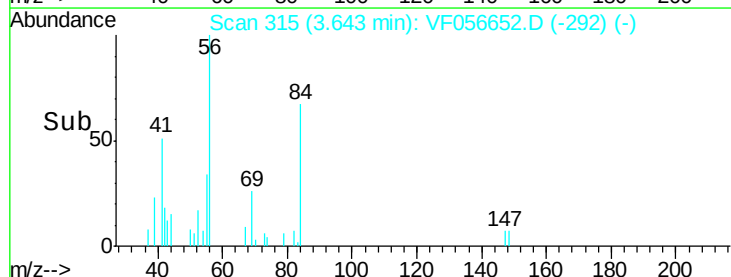
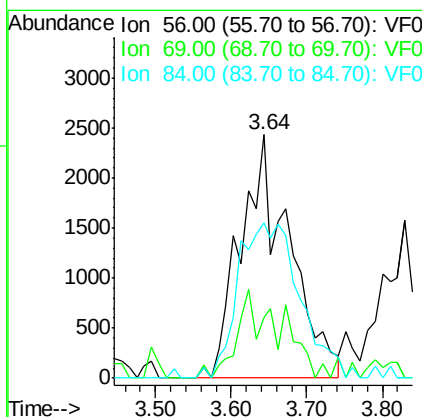
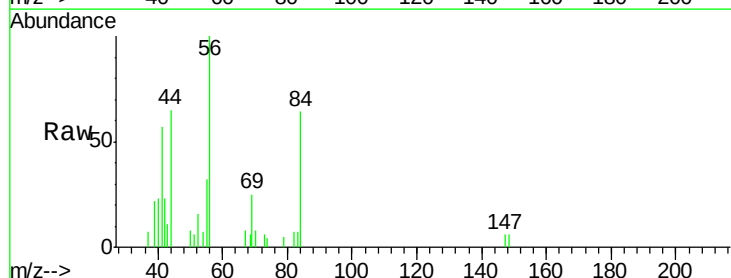
Instrument :  
MSVOA\_F  
ClientSampleId :  
RO-72-11931

Tgt Ion: 49 Resp: 93  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 0.0  
130 0.0 63.4 95.0#

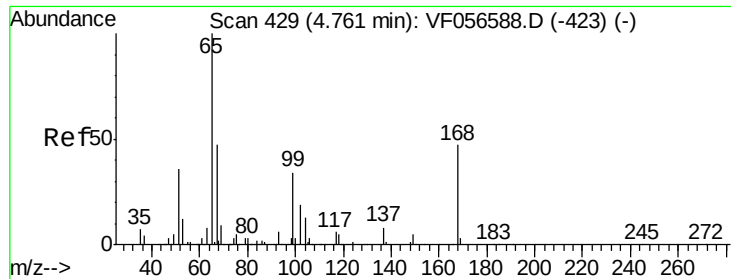


#31  
Cyclohexane  
Concen: 2.00 ug/l  
RT: 3.64 min Scan# 315  
Delta R.T. 0.03 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

Tgt Ion: 56 Resp: 10913  
Ion Ratio Lower Upper  
56 100  
69 24.9 24.7 37.1  
84 63.8 62.9 94.3



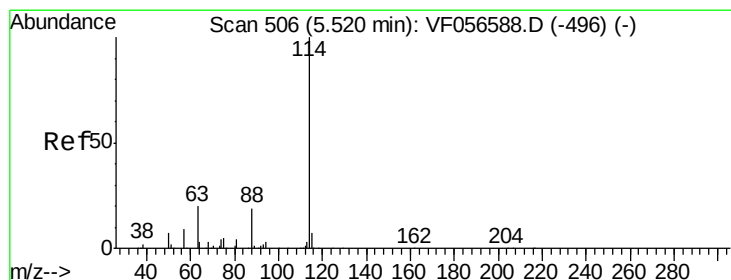
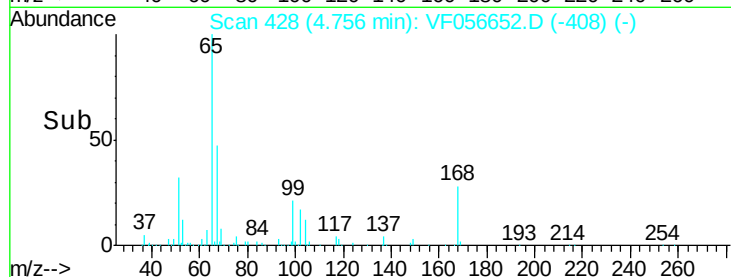
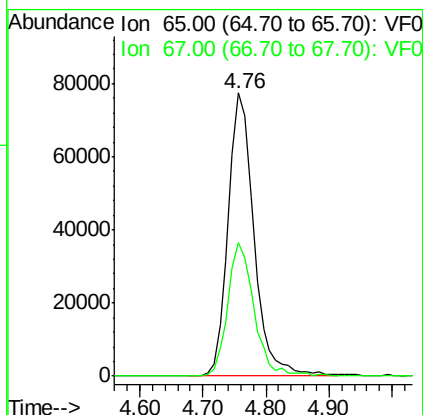
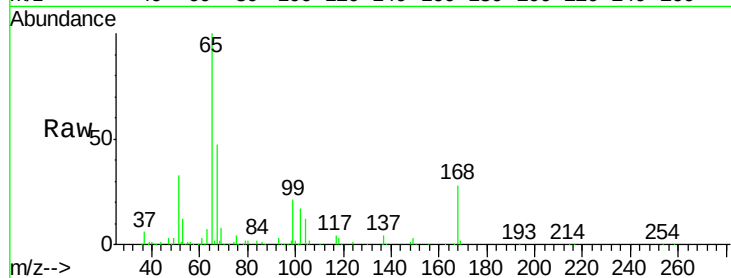




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.45 ug/l  
 RT: 4.76 min Scan# 428  
 Delta R.T. -0.00 min  
 Lab File: VF056652.D  
 Acq: 23 Feb 2018 13:21

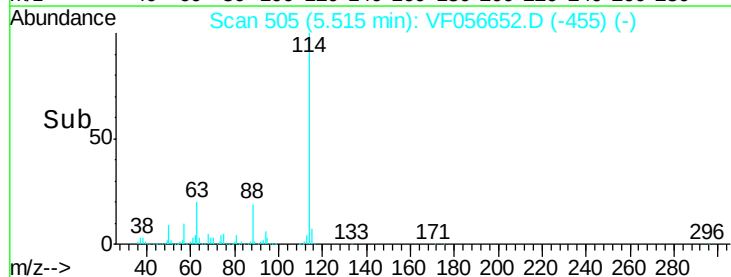
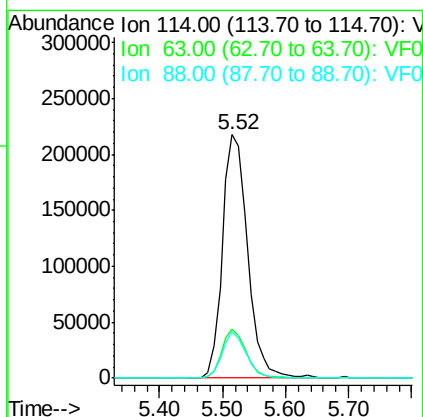
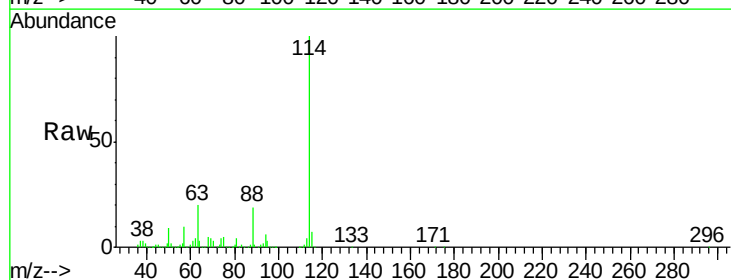
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 RO-72-11931

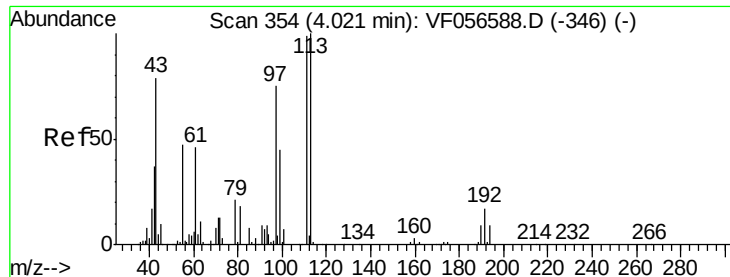
Tgt Ion: 65 Resp: 219792  
 Ion Ratio Lower Upper  
 65 100  
 67 47.1 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.52 min Scan# 505  
 Delta R.T. -0.00 min  
 Lab File: VF056652.D  
 Acq: 23 Feb 2018 13:21

Tgt Ion: 114 Resp: 605257  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 40.6  
 88 19.2 0.0 37.8





#35

Dibromofluoromethane

Concen: 48.73 ug/l

RT: 4.03 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

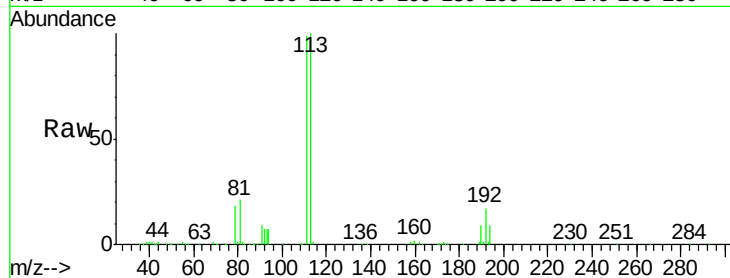
Tgt Ion: 113 Resp: 221828

Ion Ratio Lower Upper

113 100

111 99.0 79.1 118.7

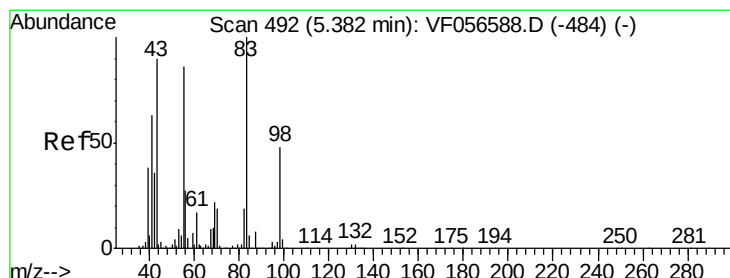
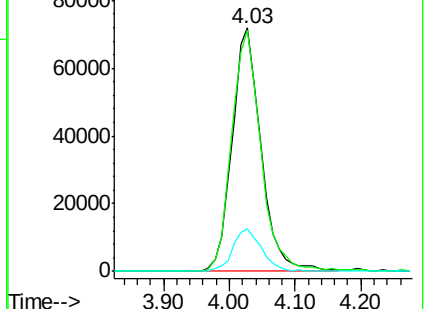
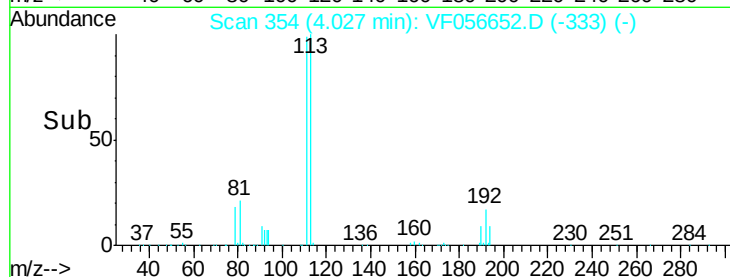
192 17.3 13.9 20.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#39

Methylcyclohexane

Concen: 4.69 ug/l

RT: 5.39 min Scan# 492

Delta R.T. 0.01 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

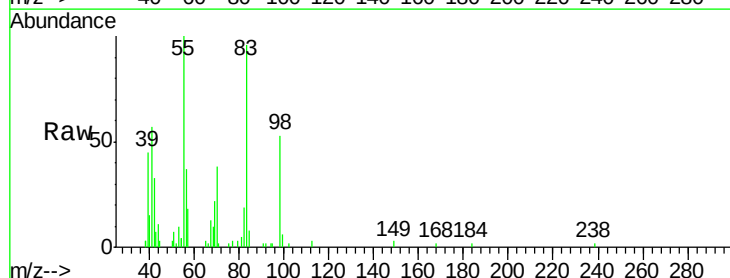
Tgt Ion: 83 Resp: 28884

Ion Ratio Lower Upper

83 100

55 103.7 68.7 103.1#

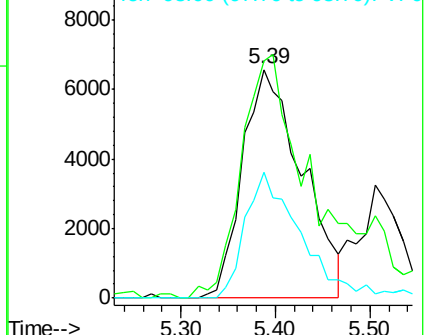
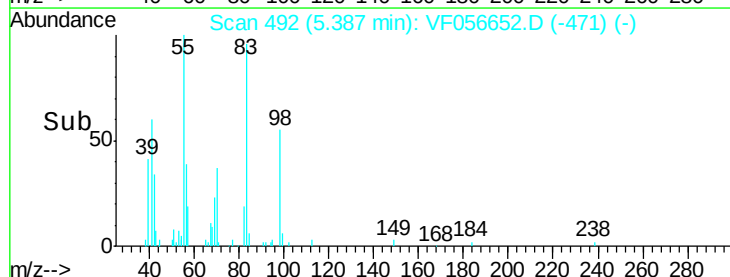
98 55.2 38.0 57.0

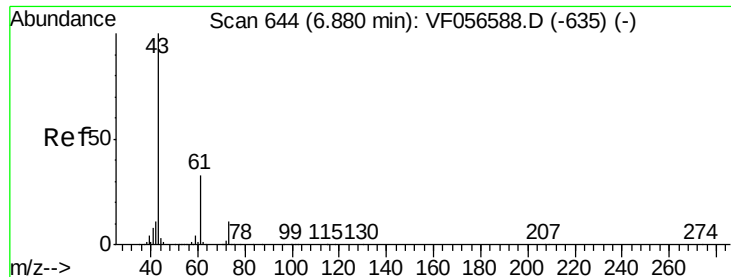


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 2.33 ug/l

RT: 6.98 min Scan# 654

Delta R.T. 0.10 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

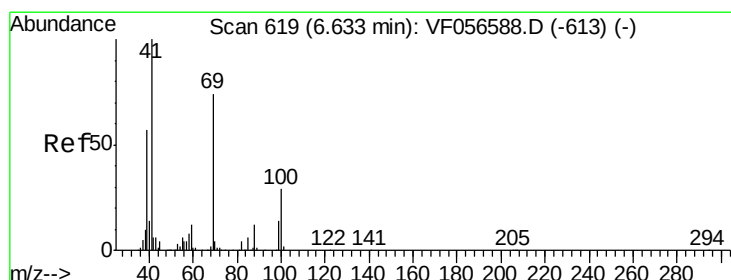
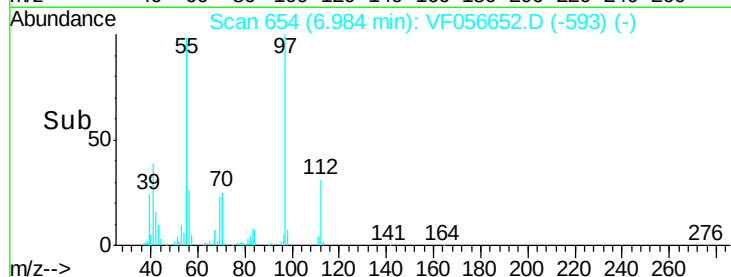
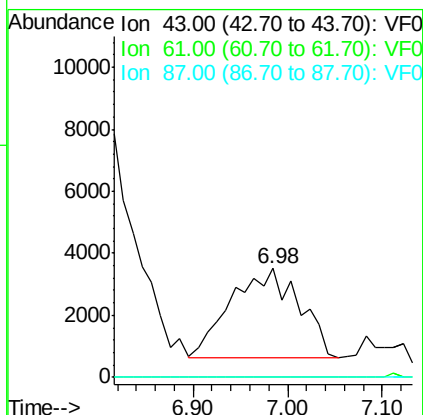
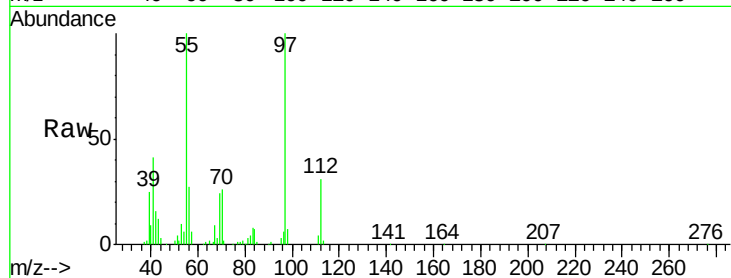
Tgt Ion: 43 Resp: 14567

Ion Ratio Lower Upper

43 100

61 0.0 26.5 39.7#

87 0.0 0.2 0.4#



#48

Methyl methacrylate

Concen: 6.49 ug/l

RT: 6.53 min Scan# 608

Delta R.T. -0.10 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

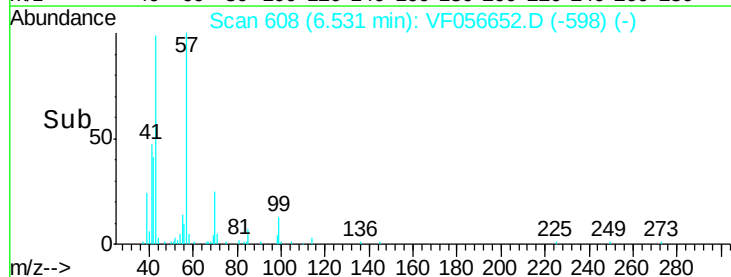
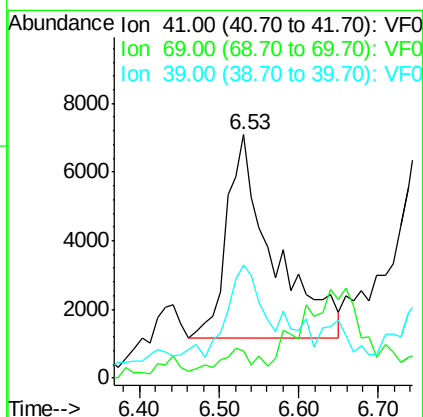
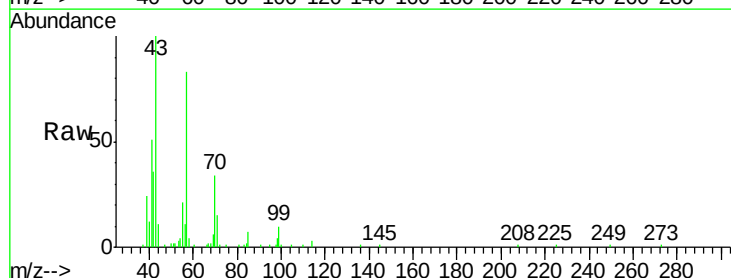
Tgt Ion: 41 Resp: 23767

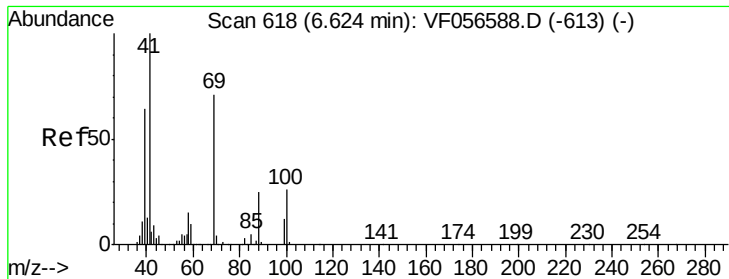
Ion Ratio Lower Upper

41 100

69 11.1 58.8 88.2#

39 46.5 46.1 69.1





#49

1,4-Dioxane

Concen: 2.17 ug/l

RT: 6.69 min Scan# 624

Delta R.T. 0.06 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

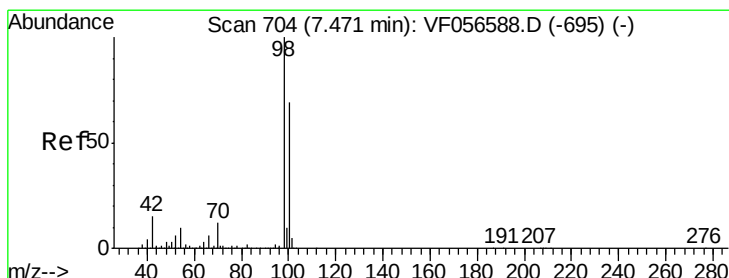
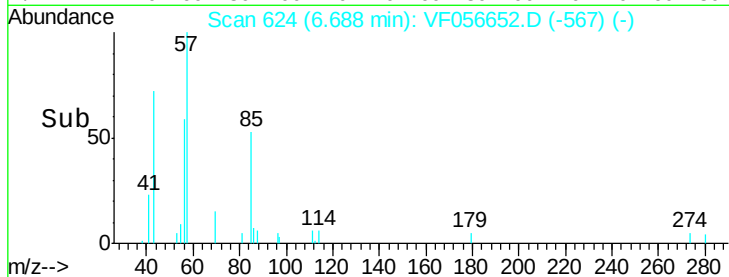
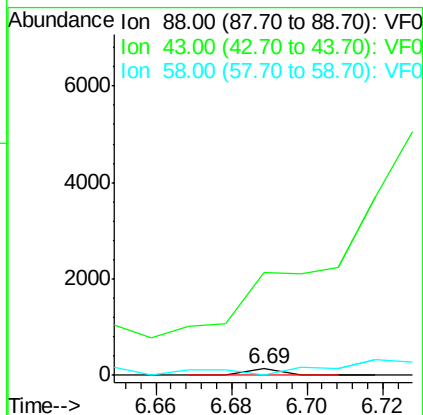
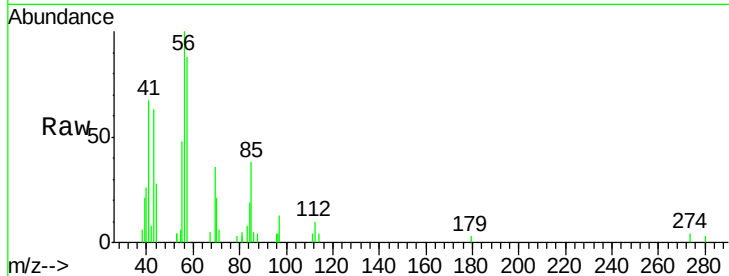
Tgt Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 1528.8 30.8 46.2#

58 0.0 49.8 74.6#



#50

Toluene-d8

Concen: 40.19 ug/l

RT: 7.48 min Scan# 704

Delta R.T. 0.01 min

Lab File: VF056652.D

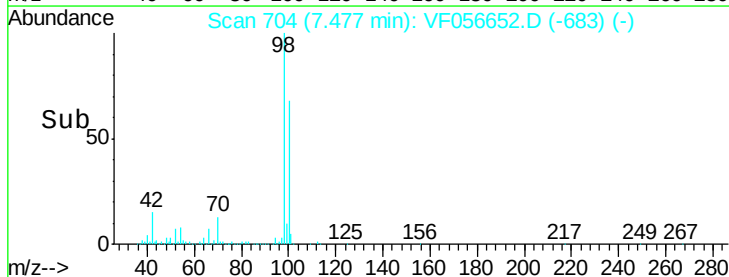
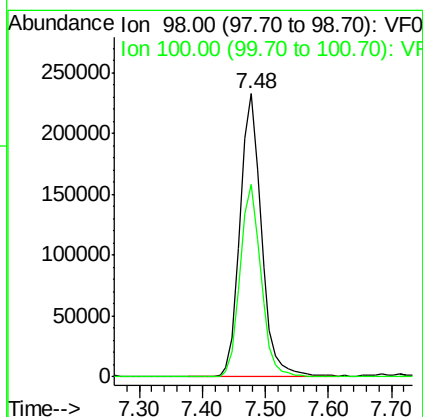
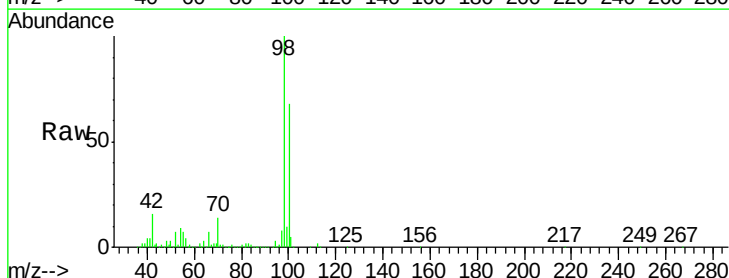
Acq: 23 Feb 2018 13:21

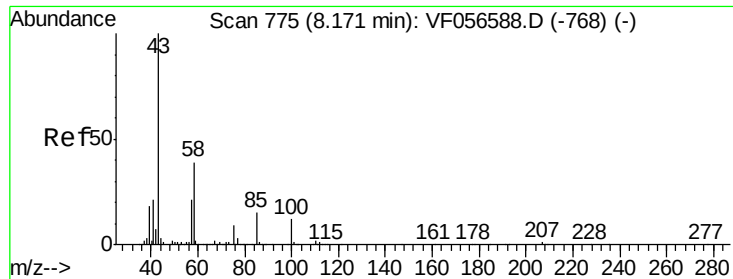
Tgt Ion: 98 Resp: 548415

Ion Ratio Lower Upper

98 100

100 67.9 55.4 83.0

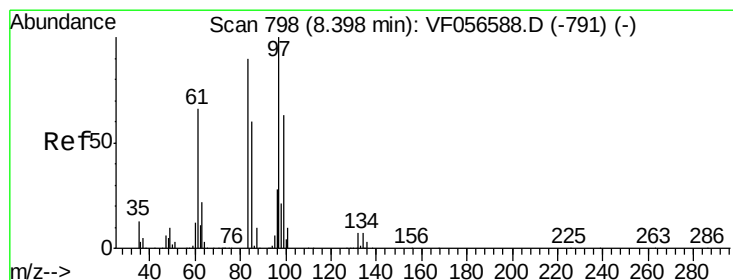
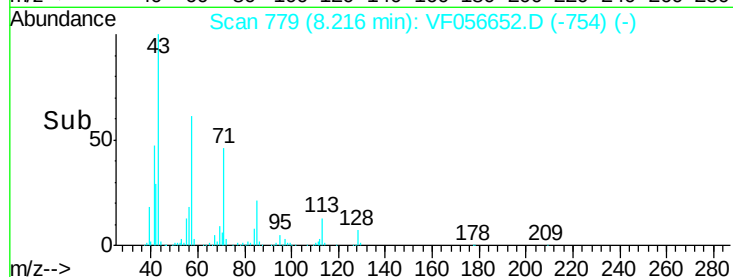
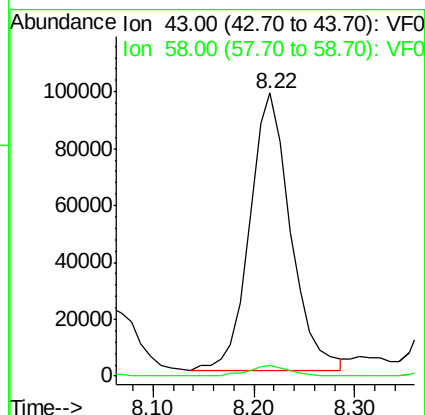
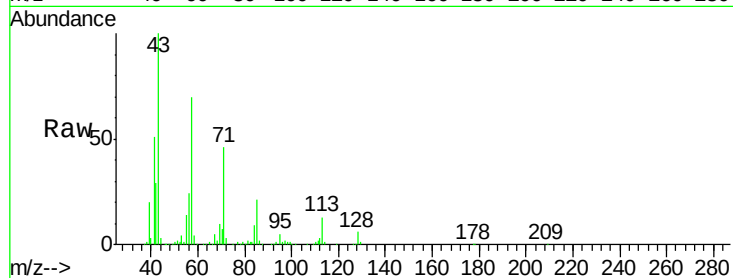




#51  
 4-Methyl-2-Pentanone  
 Concen: 64.33 ug/l  
 RT: 8.22 min Scan# 779  
 Delta R.T. 0.05 min  
 Lab File: VF056652.D  
 Acq: 23 Feb 2018 13:21

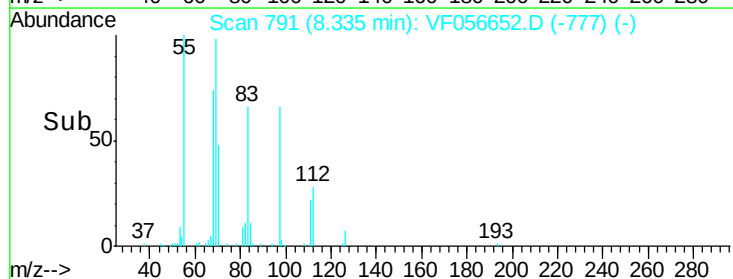
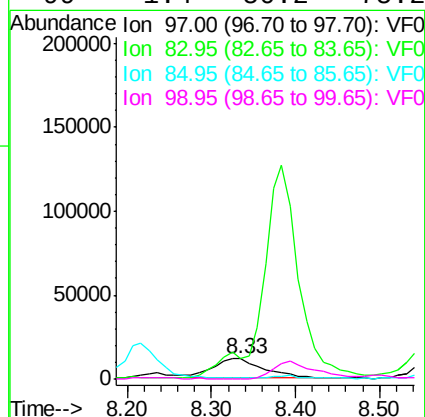
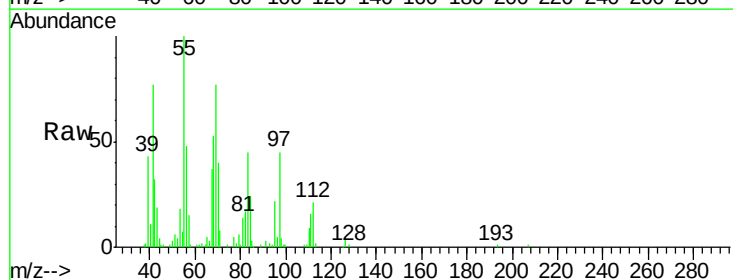
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 RO-72-11931

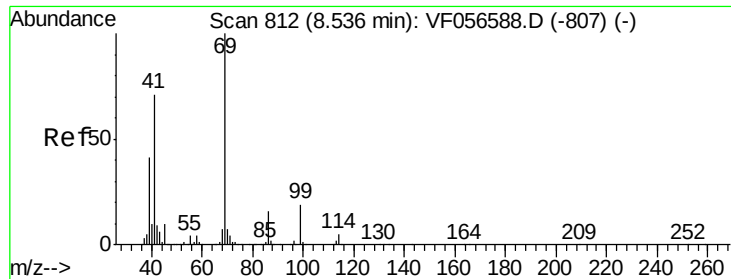
Tgt Ion: 43 Resp: 274920  
 Ion Ratio Lower Upper  
 43 100  
 58 3.8 30.9 46.3#



#55  
 1,1,2-Trichloroethane  
 Concen: 12.60 ug/l  
 RT: 8.33 min Scan# 791  
 Delta R.T. -0.06 min  
 Lab File: VF056652.D  
 Acq: 23 Feb 2018 13:21

Tgt Ion: 97 Resp: 48054  
 Ion Ratio Lower Upper  
 97 100  
 83 100.7 71.8 107.8  
 85 6.2 48.0 72.0#  
 99 1.4 50.2 75.2#





#56

Ethyl methacrylate

Concen: 92.15 ug/l

RT: 8.57 min Scan# 815

Delta R.T. 0.04 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

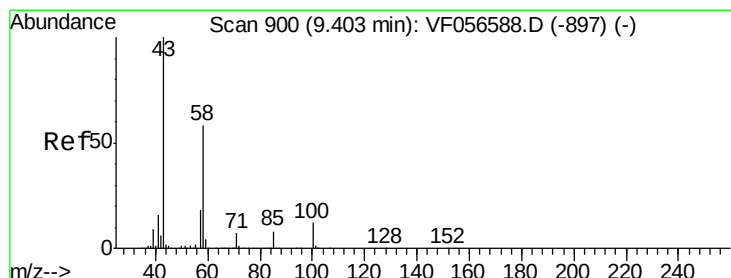
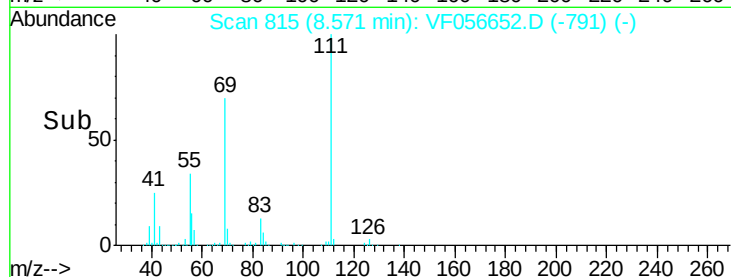
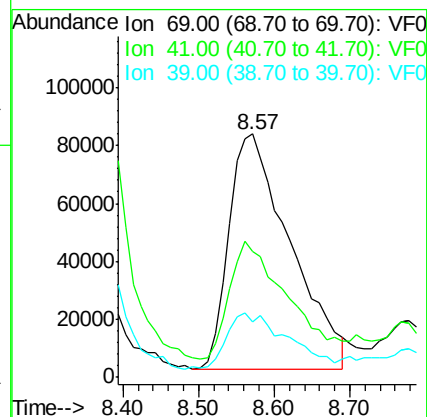
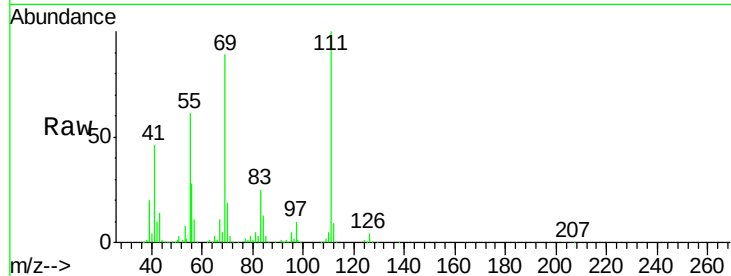
Tgt Ion: 69 Resp: 458866

Ion Ratio Lower Upper

69 100

41 51.6 57.2 85.8#

39 22.9 33.0 49.6#



#59

2-Hexanone

Concen: 13.27 ug/l

RT: 9.35 min Scan# 894

Delta R.T. -0.05 min

Lab File: VF056652.D

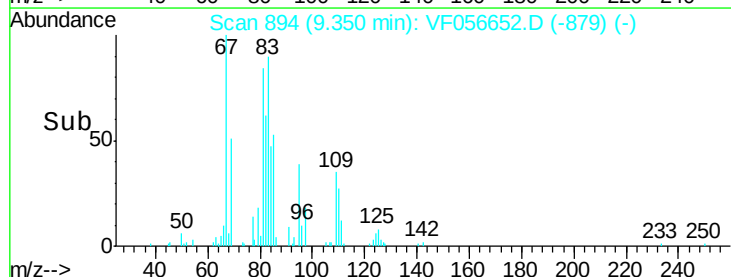
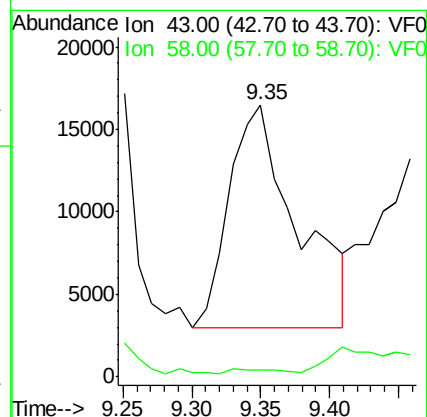
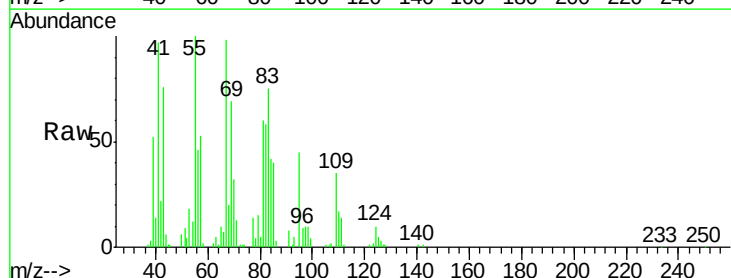
Acq: 23 Feb 2018 13:21

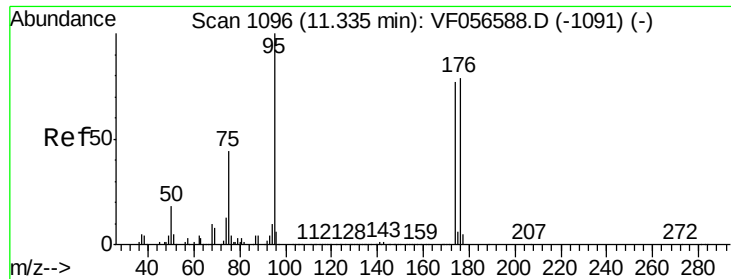
Tgt Ion: 43 Resp: 46040

Ion Ratio Lower Upper

43 100

58 2.5 26.6 79.7#

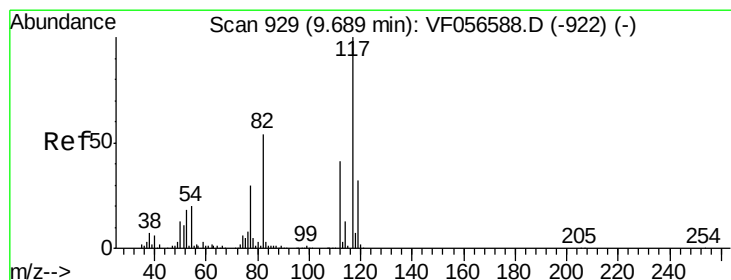
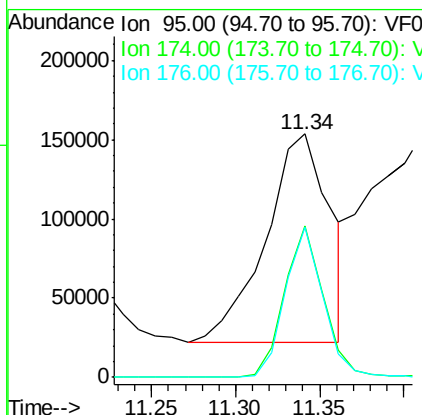
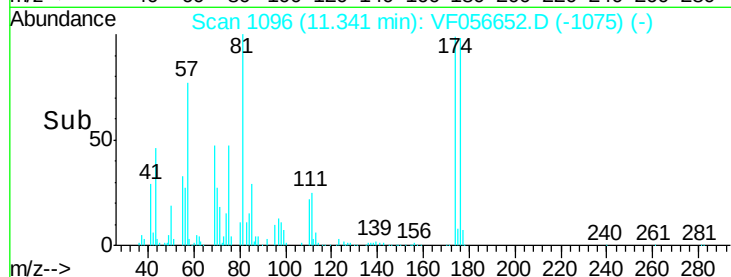
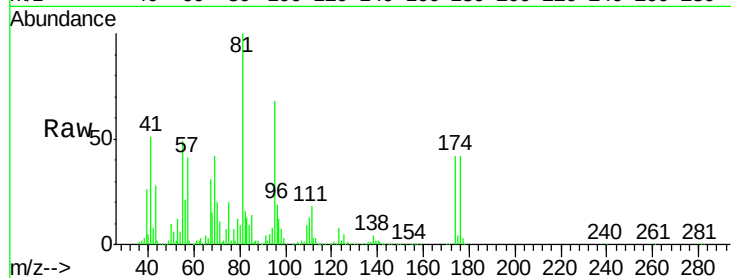




#62  
4-Bromofluorobenzene  
Concen: 56.37 ug/l  
RT: 11.34 min Scan# 1096  
Delta R.T. 0.01 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

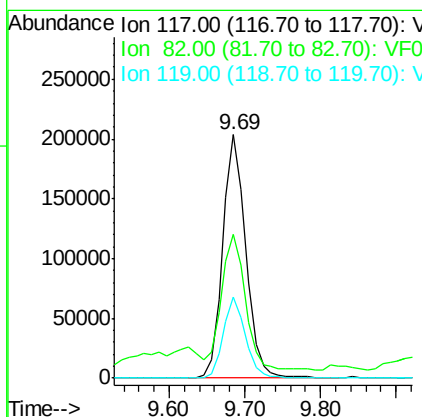
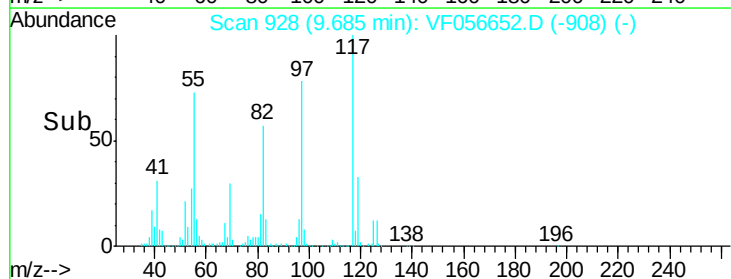
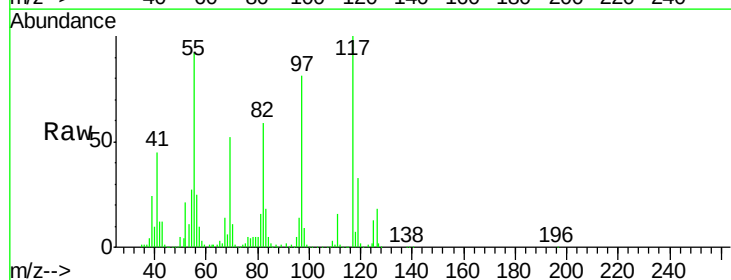
Instrument :  
MSVOA\_F  
ClientSampleId :  
RO-72-11931

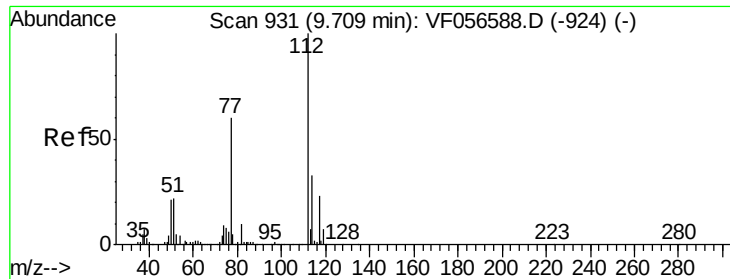
Tgt Ion: 95 Resp: 349851  
Ion Ratio Lower Upper  
95 100  
174 62.2 0.0 154.2  
176 61.7 0.0 157.2



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.69 min Scan# 928  
Delta R.T. -0.00 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

Tgt Ion: 117 Resp: 430816  
Ion Ratio Lower Upper  
117 100  
82 58.8 43.0 64.6  
119 33.2 25.5 38.3

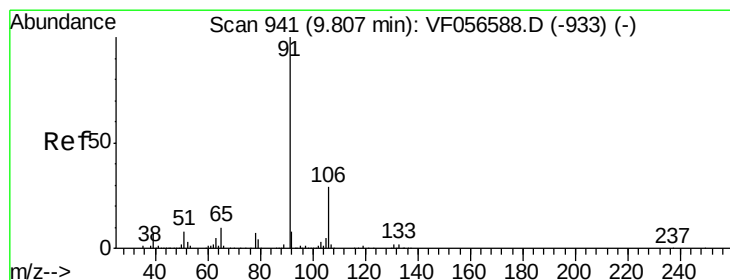
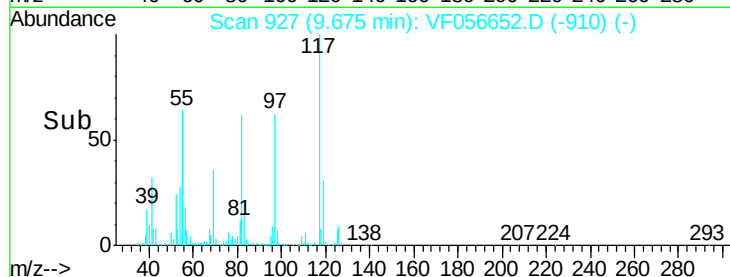
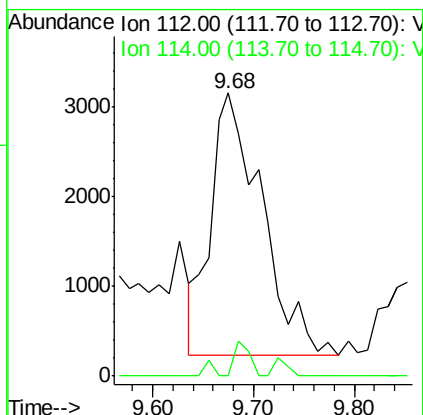
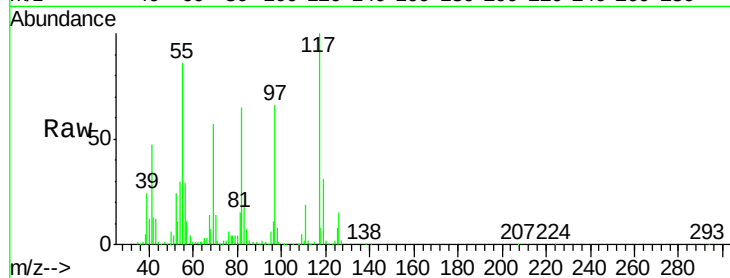




#65  
Chlorobenzene  
Concen: 1.22 ug/l  
RT: 9.68 min Scan# 927  
Delta R.T. -0.03 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

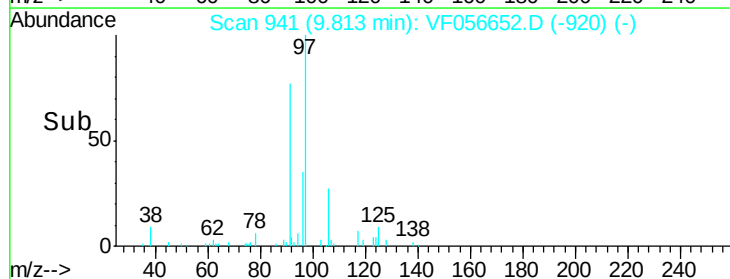
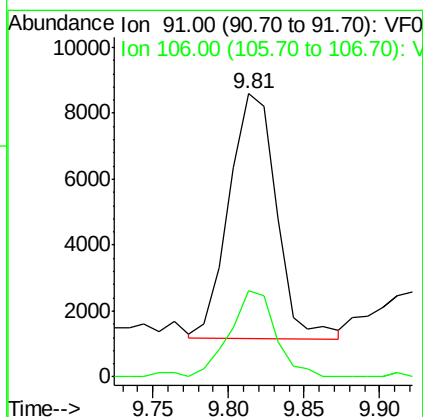
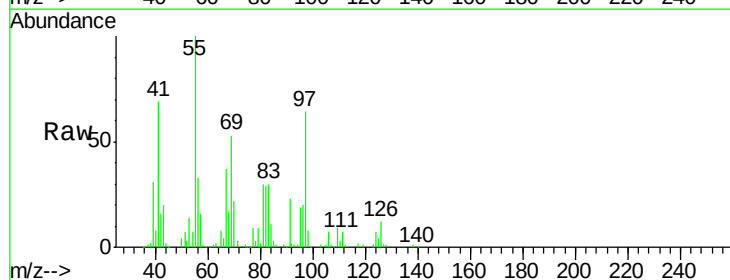
Instrument :  
MSVOA\_F  
ClientSampleId :  
RO-72-11931

Tgt Ion: 112 Resp: 10283  
Ion Ratio Lower Upper  
112 100  
114 0.0 26.6 40.0#

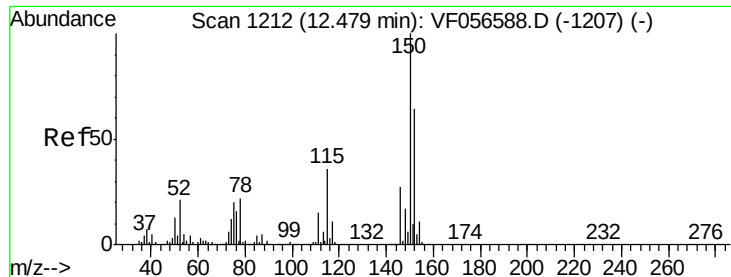


#67  
Ethyl Benzene  
Concen: 1.13 ug/l  
RT: 9.81 min Scan# 941  
Delta R.T. 0.01 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

Tgt Ion: 91 Resp: 16303  
Ion Ratio Lower Upper  
91 100  
106 30.4 23.2 34.8







#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.48 min Scan# 1212

Delta R.T. 0.01 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

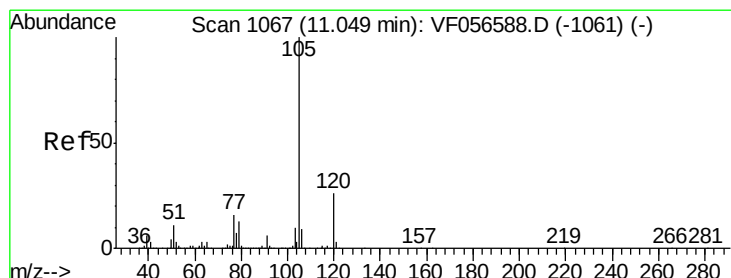
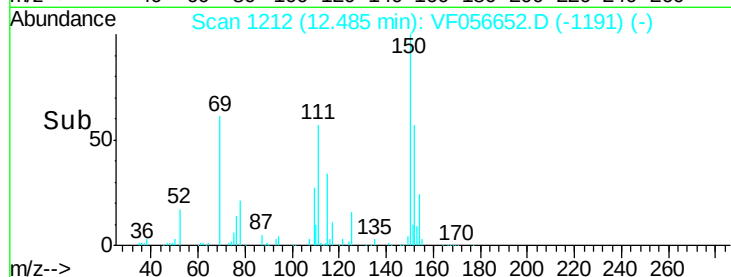
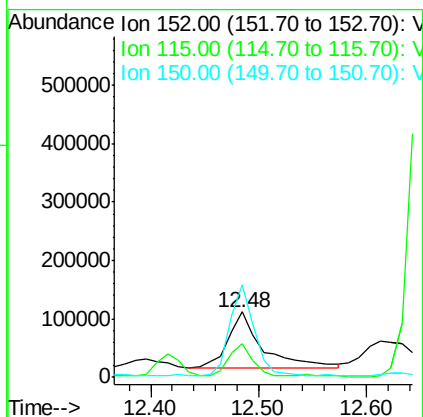
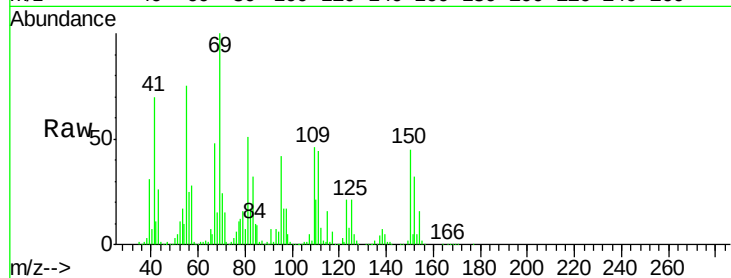
Tgt Ion:152 Resp: 220240

Ion Ratio Lower Upper

152 100

115 50.8 28.1 84.3

150 140.5 0.0 315.6



#73

Isopropylbenzene

Concen: 162.76 ug/l

RT: 11.06 min Scan# 1067

Delta R.T. 0.01 min

Lab File: VF056652.D

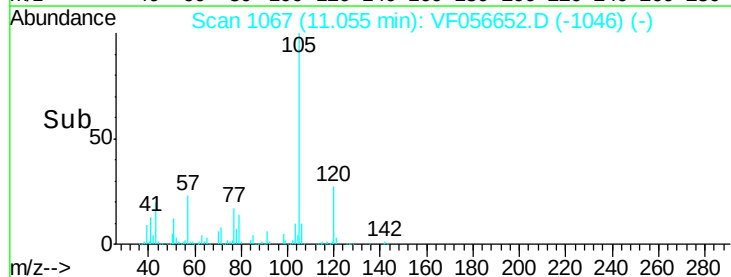
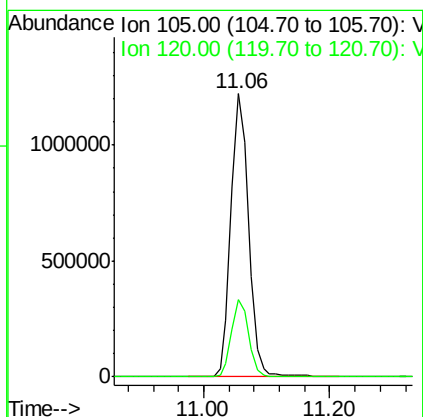
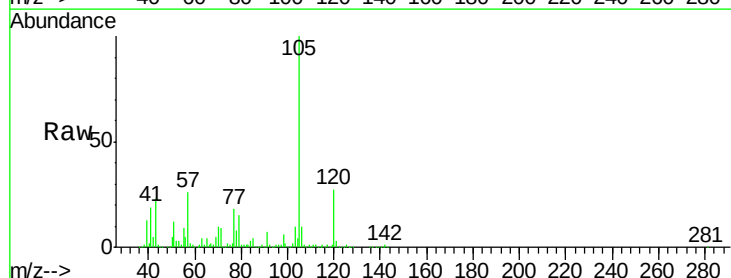
Acq: 23 Feb 2018 13:21

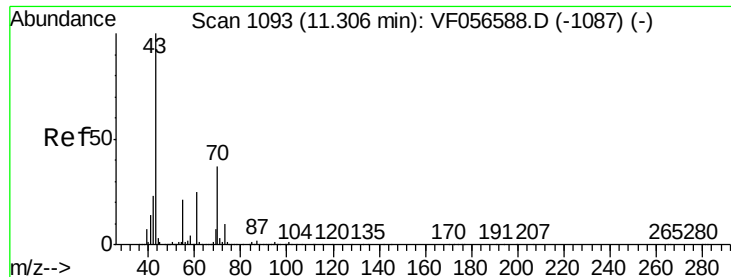
Tgt Ion:105 Resp: 2361052

Ion Ratio Lower Upper

105 100

120 27.1 13.2 39.6





#74

N-amyI acetate

Concen: 20.83 ug/l

RT: 11.34 min Scan# 1096

Delta R.T. 0.04 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

Tgt Ion: 43 Resp: 135175

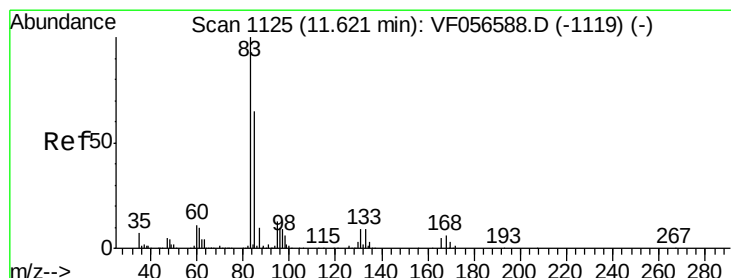
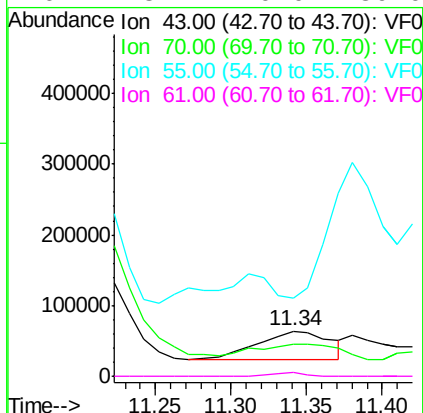
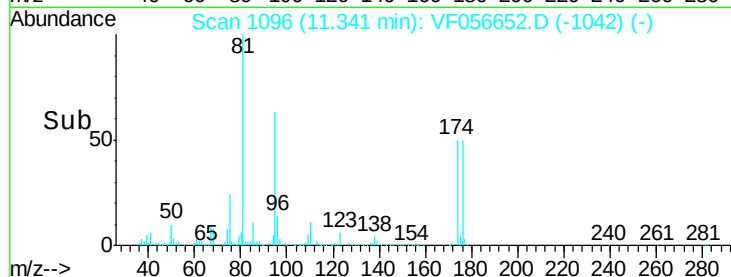
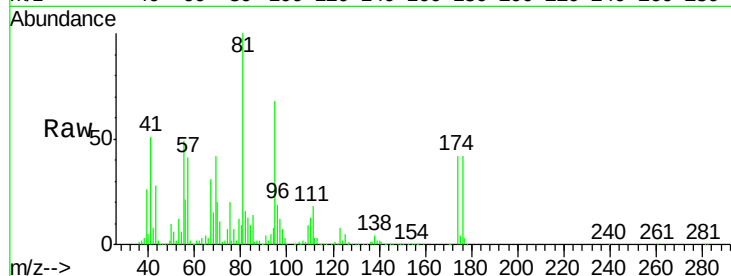
Ion Ratio Lower Upper

43 100

70 71.1 29.5 44.3#

55 174.7 17.0 25.4#

61 8.1 20.0 30.0#



#75

1,1,2,2-Tetrachloroethane

Concen: 67.39 ug/l

RT: 11.62 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

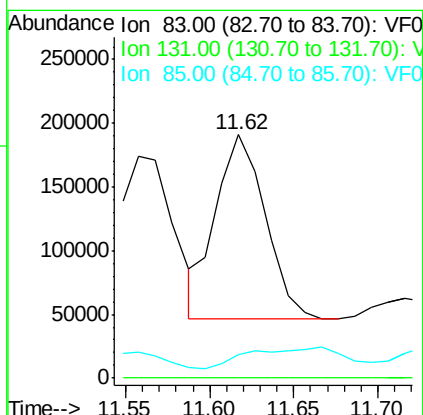
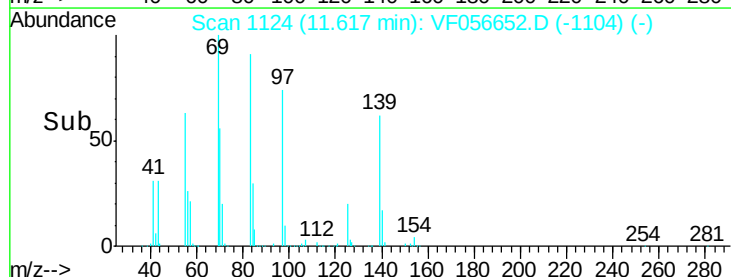
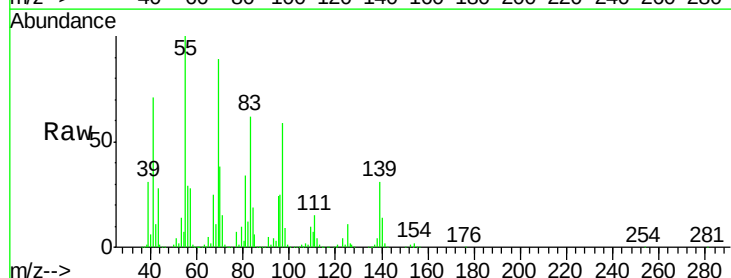
Tgt Ion: 83 Resp: 295755

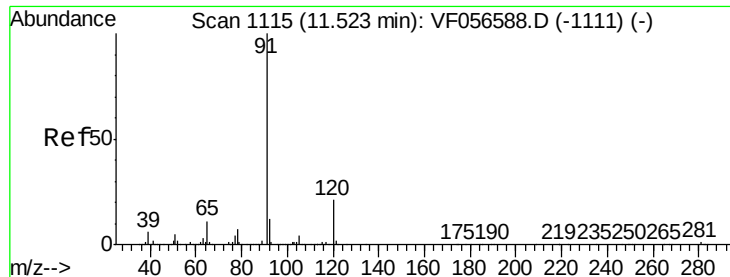
Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.4#

85 9.5 32.4 97.2#





#78

n-propylbenzene

Concen: 77.32 ug/l

RT: 11.53 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

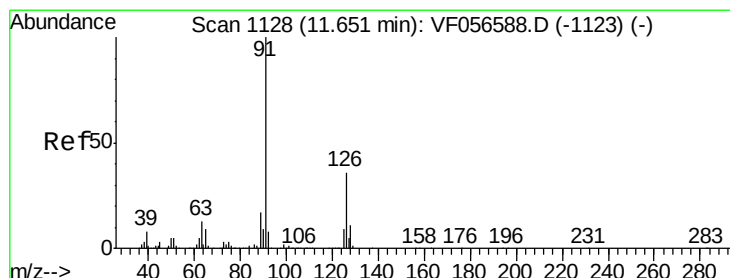
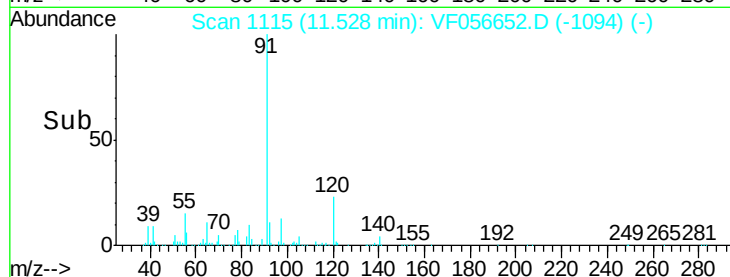
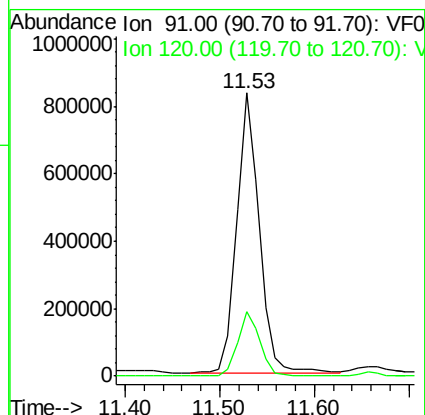
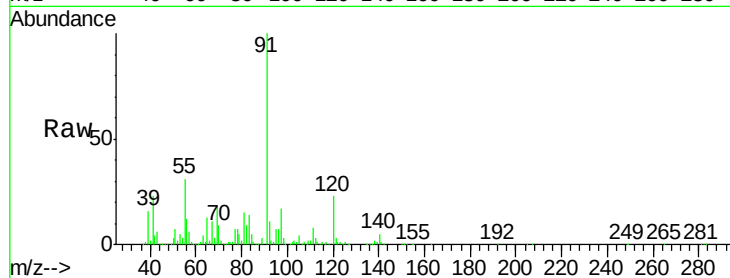
RO-72-11931

Tgt Ion: 91 Resp: 1381853

Ion Ratio Lower Upper

91 100

120 22.7 10.7 31.9



#79

2-Chlorotoluene

Concen: 131.30 ug/l

RT: 11.53 min Scan# 1115

Delta R.T. -0.12 min

Lab File: VF056652.D

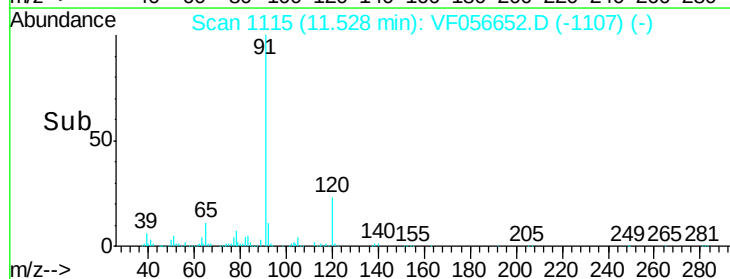
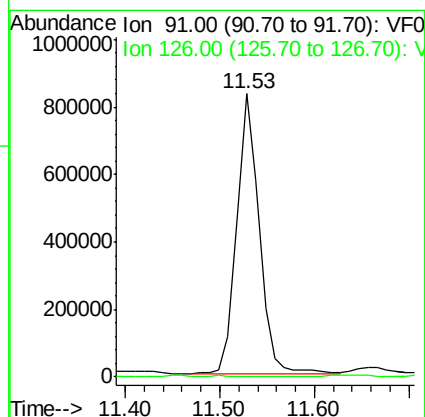
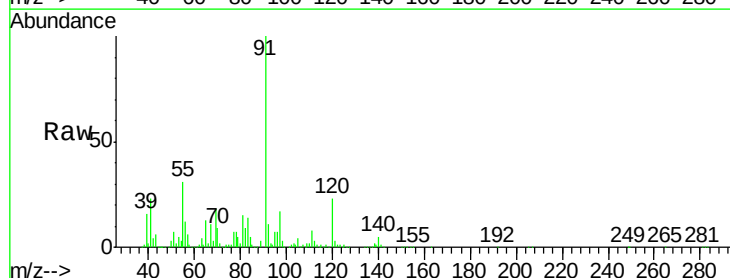
Acq: 23 Feb 2018 13:21

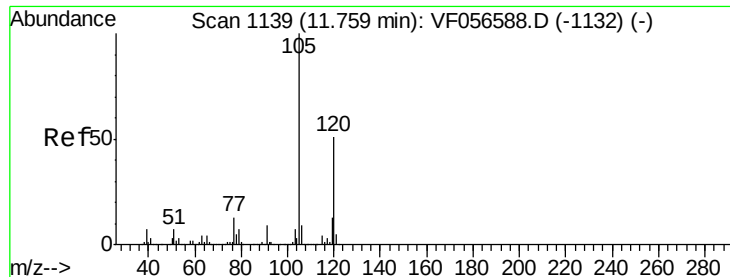
Tgt Ion: 91 Resp: 1381853

Ion Ratio Lower Upper

91 100

126 0.2 17.8 53.3#





#80

1,3,5-Trimethylbenzene

Concen: 6.02 ug/l

RT: 11.66 min Scan# 1128

Delta R.T. -0.10 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

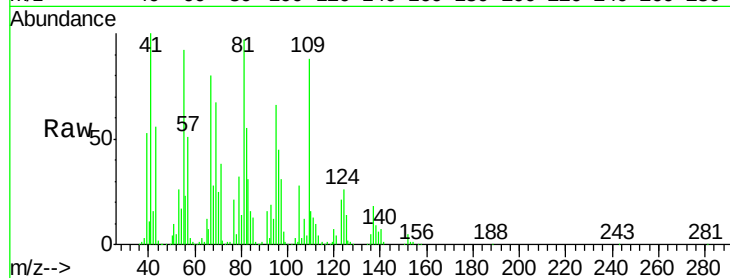
RO-72-11931

Tgt Ion: 105 Resp: 72362

Ion Ratio Lower Upper

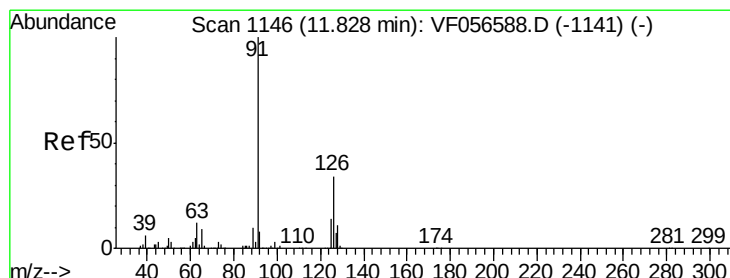
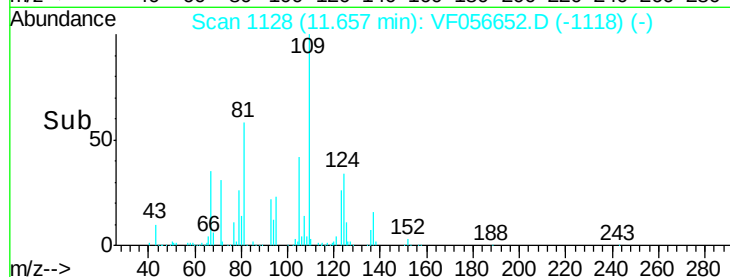
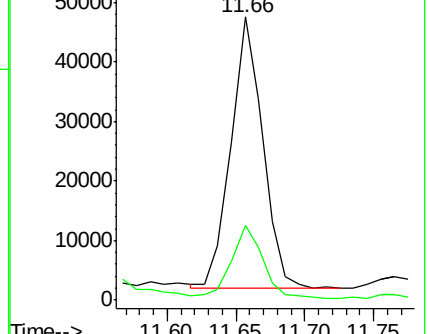
105 100

120 26.2 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

4-Chlorotoluene

Concen: 3.08 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF056652.D

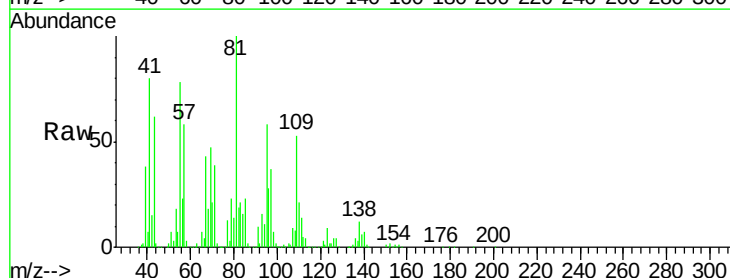
Acq: 23 Feb 2018 13:21

Tgt Ion: 91 Resp: 35296

Ion Ratio Lower Upper

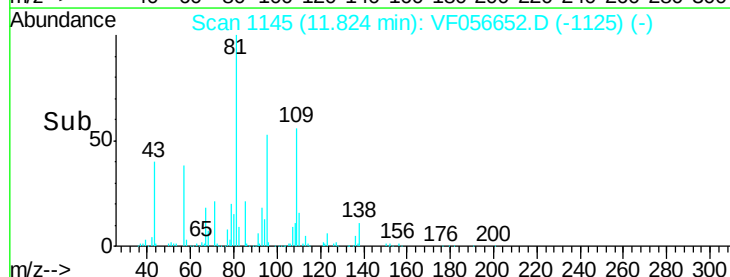
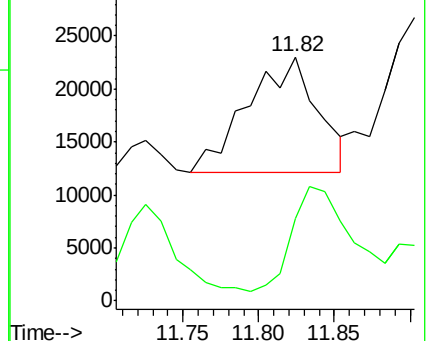
91 100

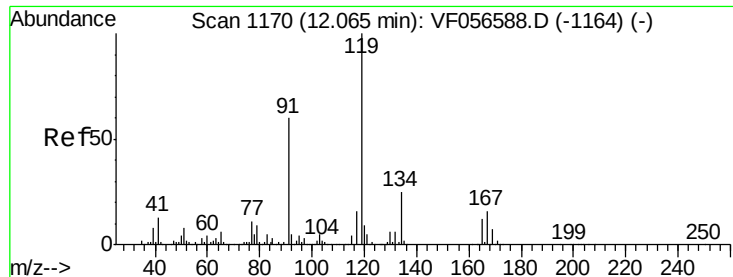
126 34.0 17.1 51.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

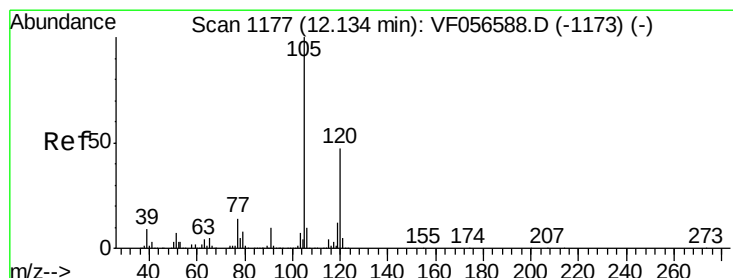
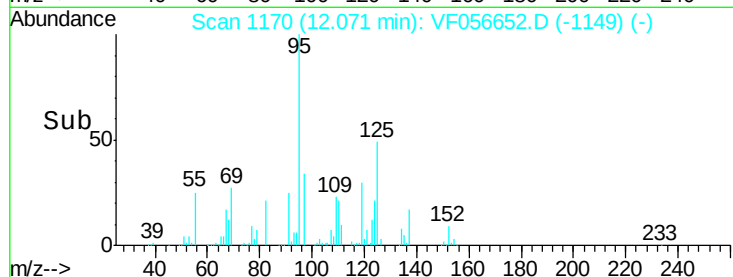
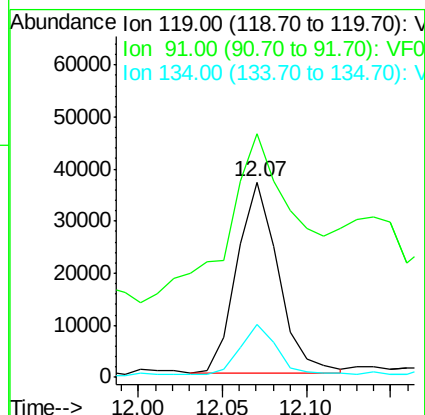
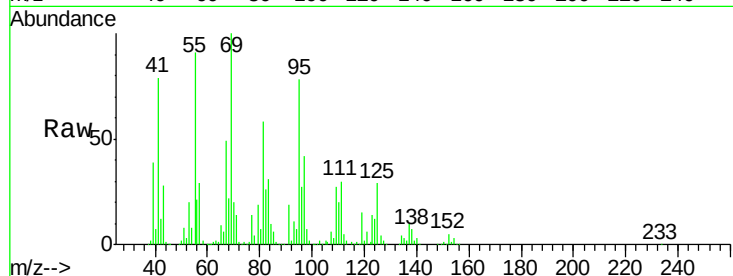




#83  
 tert-Butylbenzene  
 Concen: 5.37 ug/l  
 RT: 12.07 min Scan# 1170  
 Delta R.T. 0.01 min  
 Lab File: VF056652.D  
 Acq: 23 Feb 2018 13:21

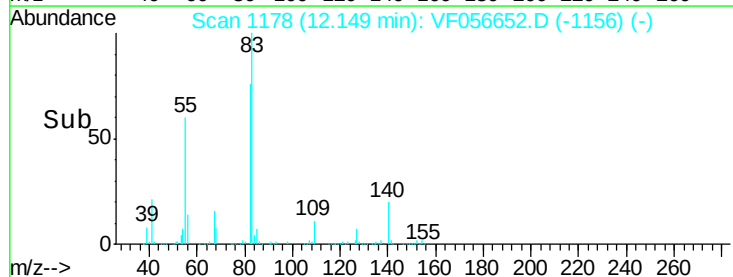
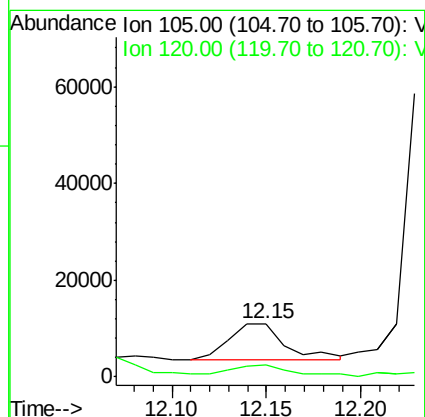
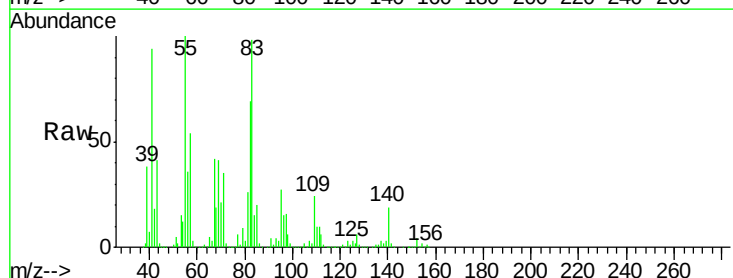
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 RO-72-11931

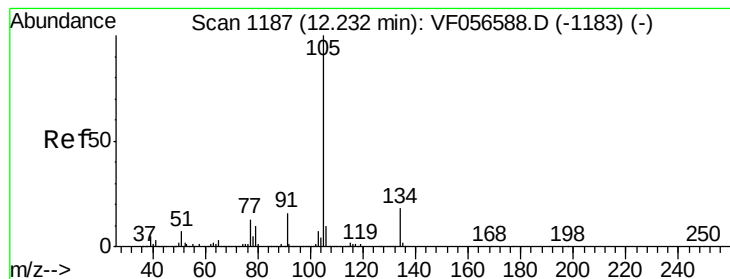
Tgt Ion:119 Resp: 62530  
 Ion Ratio Lower Upper  
 119 100  
 91 124.9 29.8 89.4#  
 134 27.2 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.20 ug/l  
 RT: 12.15 min Scan# 1178  
 Delta R.T. 0.02 min  
 Lab File: VF056652.D  
 Acq: 23 Feb 2018 13:21

Tgt Ion:105 Resp: 15094  
 Ion Ratio Lower Upper  
 105 100  
 120 23.0 23.5 70.5#





#85

sec-Butylbenzene

Concen: 29.62 ug/l

RT: 12.25 min Scan# 1188

Delta R.T. 0.02 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

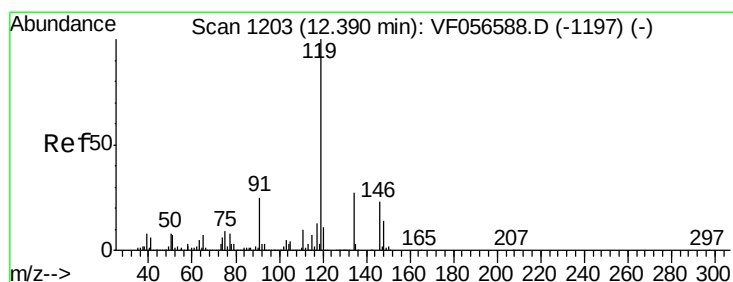
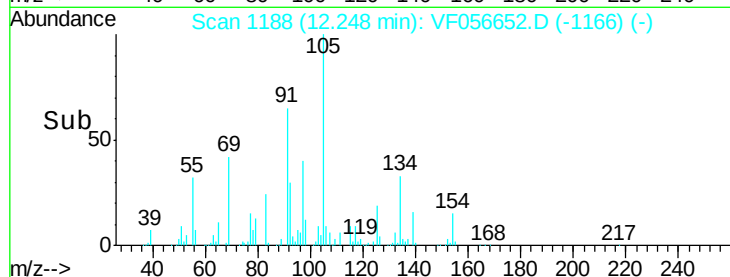
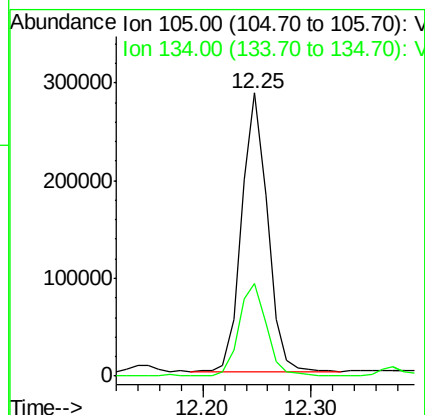
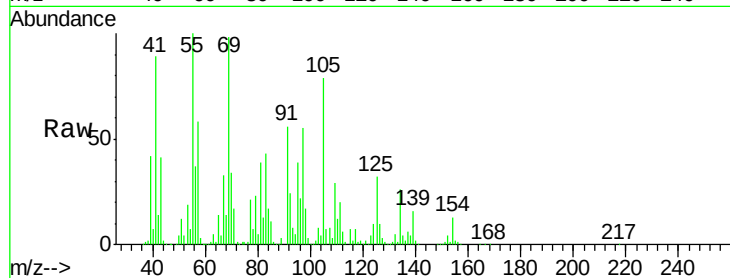
RO-72-11931

Tgt Ion:105 Resp: 474621

Ion Ratio Lower Upper

105 100

134 32.6 9.1 27.3#



#86

p-Isopropyltoluene

Concen: 5.51 ug/l

RT: 12.38 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

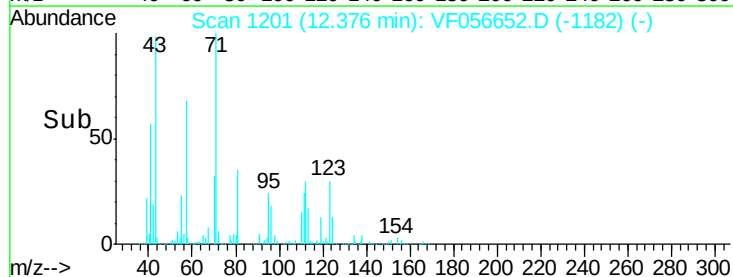
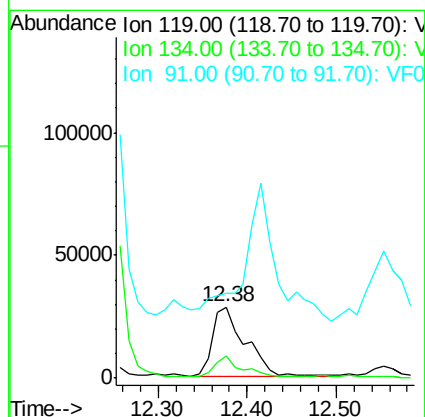
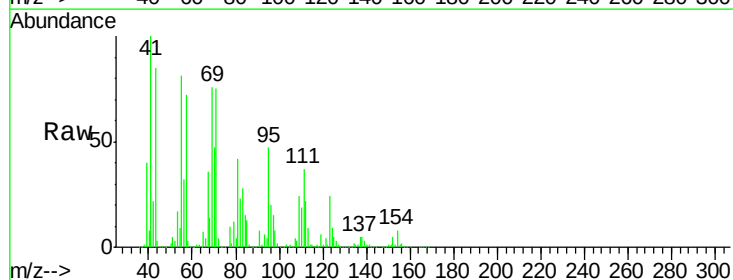
Tgt Ion:119 Resp: 70887

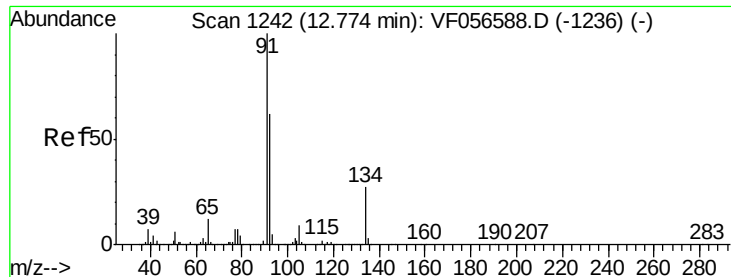
Ion Ratio Lower Upper

119 100

134 31.9 13.4 40.2

91 119.1 12.7 38.0#

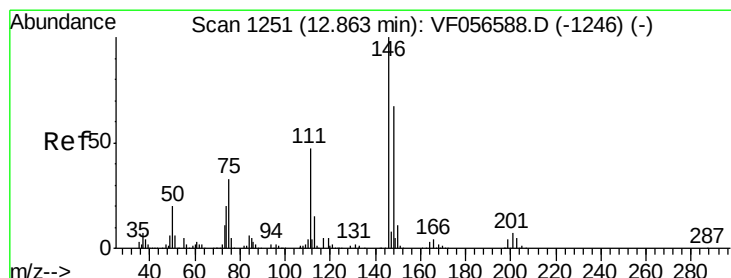
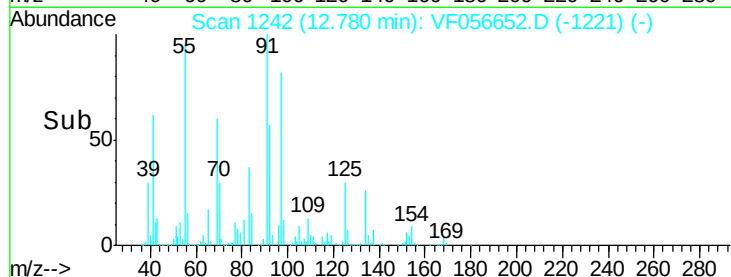
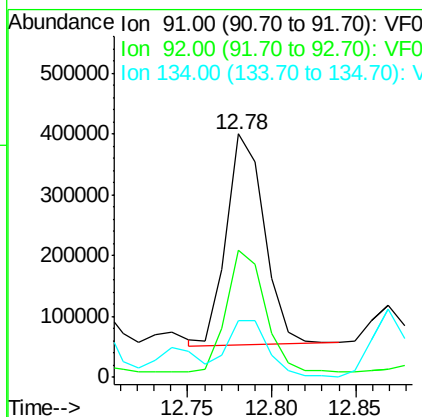
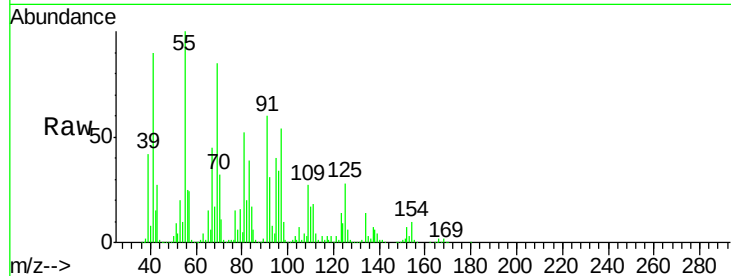




#89  
n-Butylbenzene  
Concen: 44.31 ug/l  
RT: 12.78 min Scan# 1242  
Delta R.T. 0.01 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

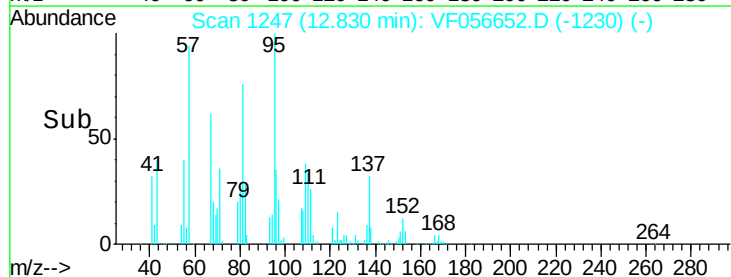
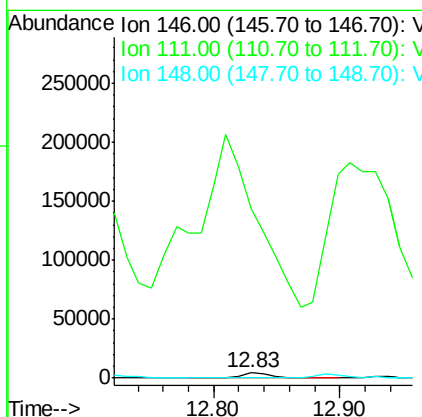
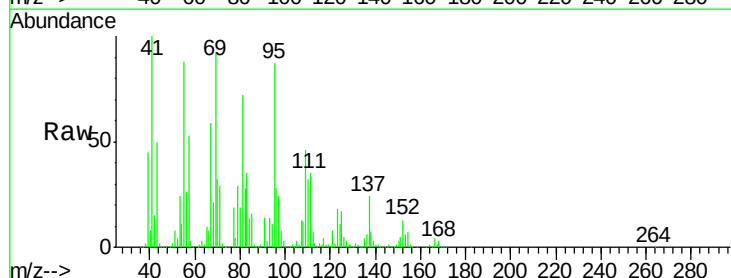
Instrument :  
MSVOA\_F  
ClientSampleId :  
RO-72-11931

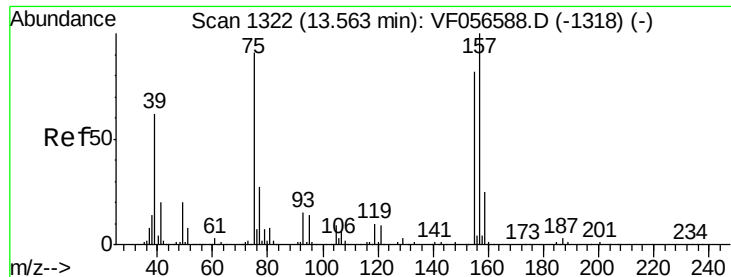
Tgt Ion: 91 Resp: 543568  
Ion Ratio Lower Upper  
91 100  
92 52.3 30.9 92.7  
134 23.3 13.7 41.0



#91  
1,2-Dichlorobenzene  
Concen: 1.05 ug/l  
RT: 12.83 min Scan# 1247  
Delta R.T. -0.03 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

Tgt Ion: 146 Resp: 7262  
Ion Ratio Lower Upper  
146 100  
111 3393.5 23.4 70.3#  
148 14.5 33.6 100.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 7.43 ug/l

RT: 13.58 min Scan# 1323

Delta R.T. 0.02 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

Instrument :

MSVOA\_F

ClientSampleId :

RO-72-11931

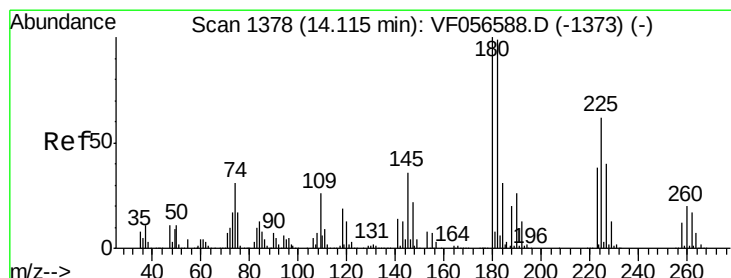
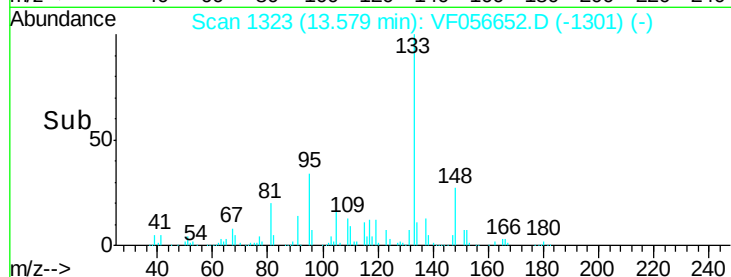
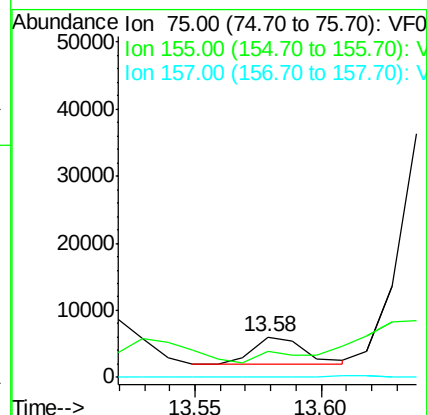
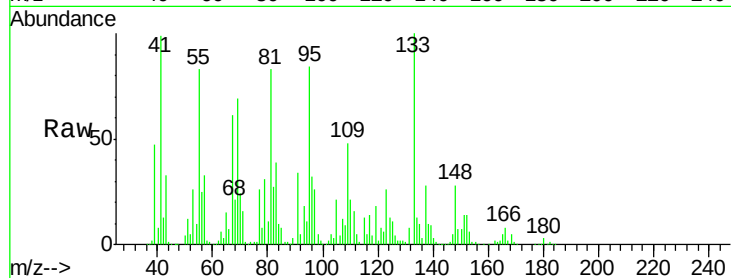
Tgt Ion: 75 Resp: 6078

Ion Ratio Lower Upper

75 100

155 65.2 45.1 135.3

157 0.0 54.9 164.8#



#93

1,2,4-Trichlorobenzene

Concen: 2.92 ug/l

RT: 14.13 min Scan# 1379

Delta R.T. 0.02 min

Lab File: VF056652.D

Acq: 23 Feb 2018 13:21

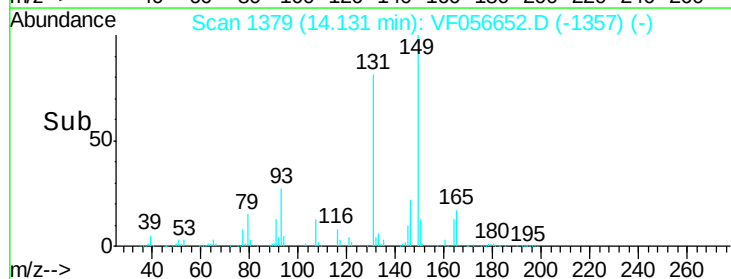
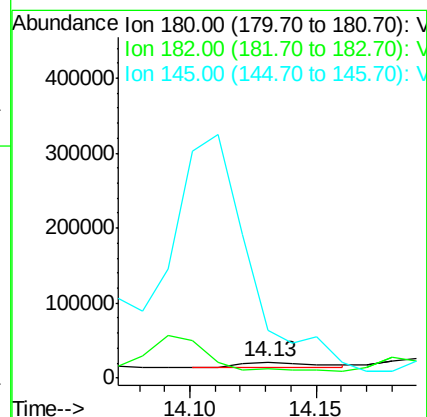
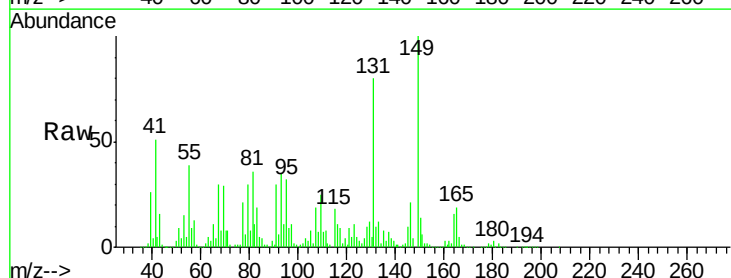
Tgt Ion: 180 Resp: 13777

Ion Ratio Lower Upper

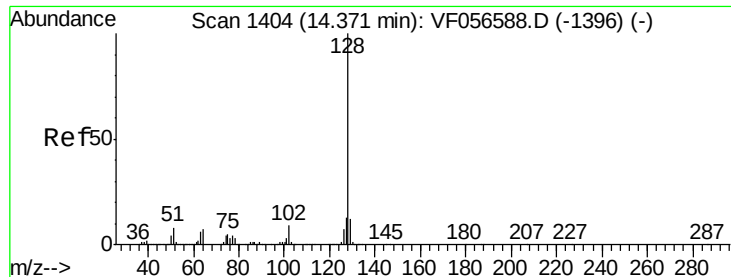
180 100

182 59.2 49.5 148.5

145 298.2 17.8 53.5#



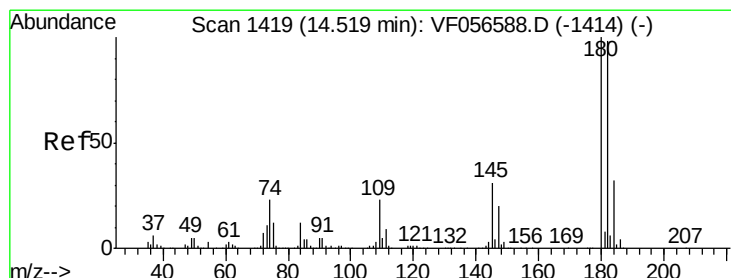
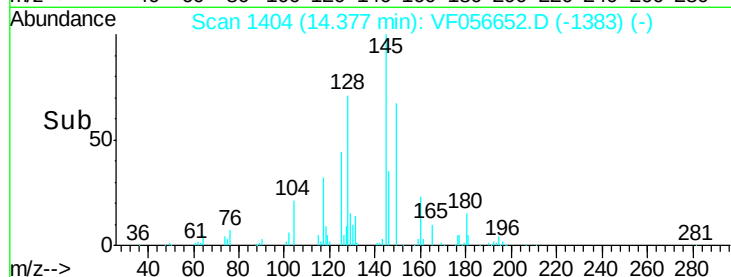
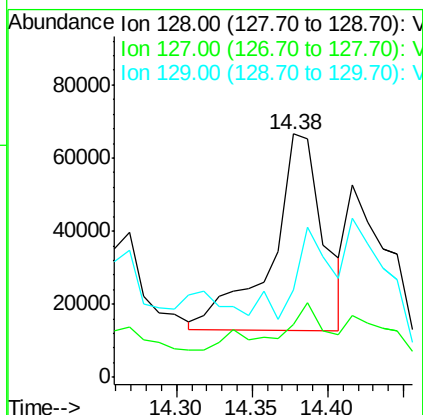
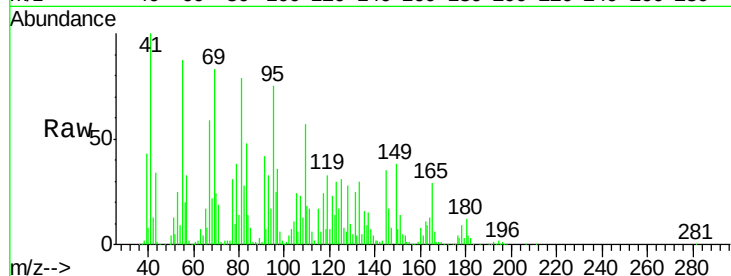




#95  
Naphthalene  
Concen: 10.96 ug/l  
RT: 14.38 min Scan# 1404  
Delta R.T. 0.01 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

Instrument :  
MSVOA\_F  
ClientSampleId :  
RO-72-11931

Tgt Ion:128 Resp: 129976  
Ion Ratio Lower Upper  
128 100  
127 21.9 10.3 15.5#  
129 36.1 9.4 14.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 5.73 ug/l  
RT: 14.52 min Scan# 1419  
Delta R.T. 0.01 min  
Lab File: VF056652.D  
Acq: 23 Feb 2018 13:21

Tgt Ion:180 Resp: 26077  
Ion Ratio Lower Upper  
180 100  
182 13.1 49.0 147.2#  
145 168.4 15.4 46.1#

