

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032720\  
 Data File : VX015420.D  
 Acq On : 28 Mar 2020 07:18  
 Operator : JC/SP  
 Sample : L2031-22  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WATER-COMP

Quant Time: Mar 30 06:00:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 1036057  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1734437  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1657572  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 882580   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 727077   | 49.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.52%  |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 544145   | 49.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.16%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 2085086  | 51.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.16% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 917574   | 55.31 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.62% |      |

## Target Compounds

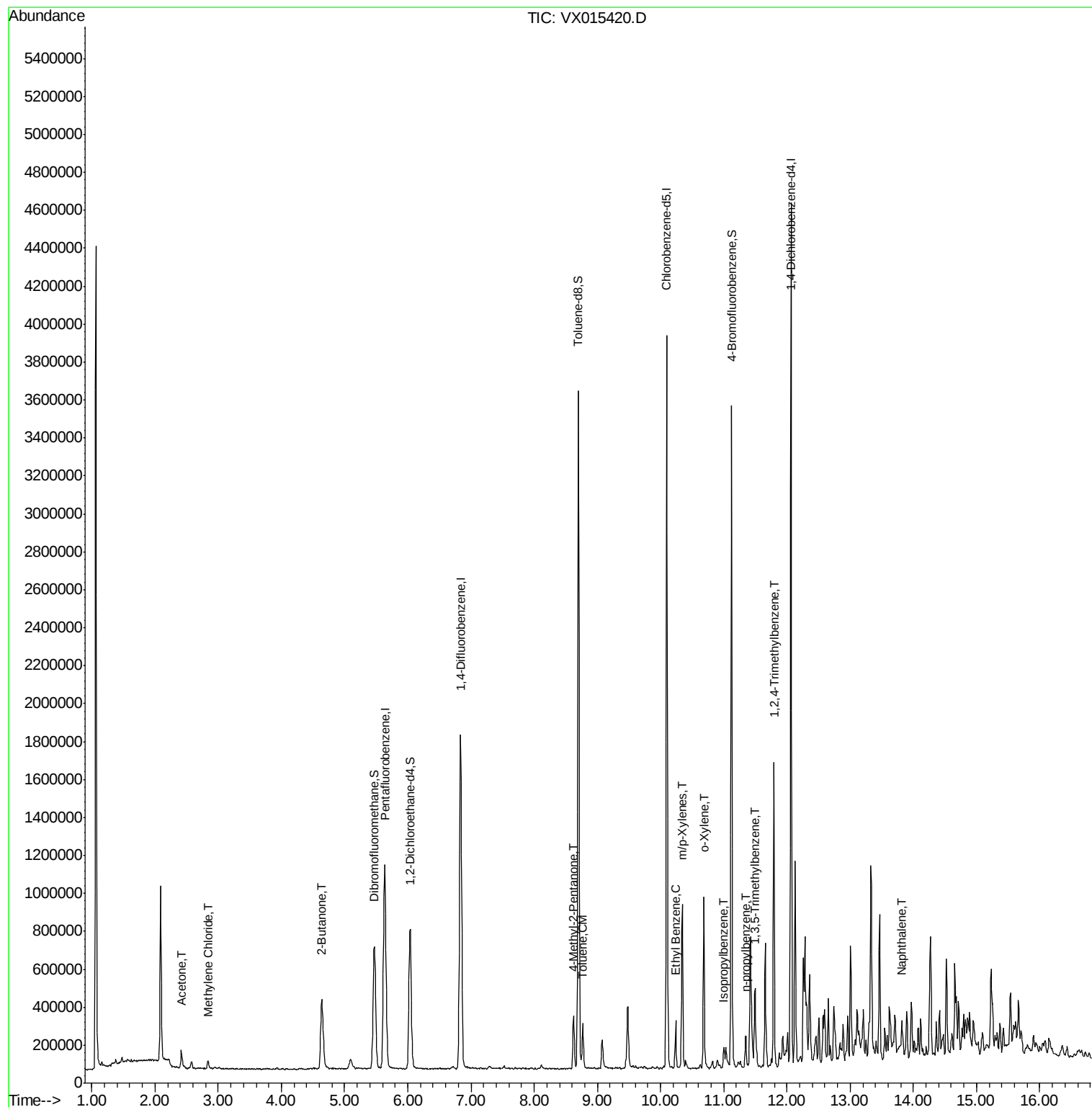
|                            |       |     |        |        |        | Qvalue |
|----------------------------|-------|-----|--------|--------|--------|--------|
| 16) Acetone                | 2.42  | 43  | 101649 | 16.192 | ug/l   | 100    |
| 20) Methylene Chloride     | 2.84  | 84  | 18034  | 1.538  | ug/l   | 91     |
| 25) 2-Butanone             | 4.64  | 43  | 674818 | 66.839 | ug/l   | 96     |
| 51) 4-Methyl-2-Pentanone   | 8.62  | 43  | 170845 | 8.582  | ug/l   | 99     |
| 52) Toluene                | 8.77  | 92  | 83729  | 2.901  | ug/l   | 99     |
| 67) Ethyl Benzene          | 10.24 | 91  | 152509 | 2.601  | ug/l   | 97     |
| 68) m/p-Xylenes            | 10.34 | 106 | 198482 | 9.091  | ug/l   | 97     |
| 69) o-Xylene               | 10.68 | 106 | 192791 | 8.937  | ug/l   | 97     |
| 73) Isopropylbenzene       | 11.00 | 105 | 61240  | 1.059  | ug/l   | 98     |
| 78) n-propylbenzene        | 11.35 | 91  | 101390 | 1.533  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 11.50 | 105 | 171982 | 3.482  | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 11.79 | 105 | 666095 | 13.235 | ug/l   | 99     |
| 95) Naphthalene            | 13.82 | 128 | 101871 | 1.562  | ug/l # | 92     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032720\  
Data File : VX015420.D  
Acq On : 28 Mar 2020 07:18  
Operator : JC/SP  
Sample : L2031-22  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
WATER-COMP

Quant Time: Mar 30 06:00:47 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

Instrument :

MSVOA\_X

ClientSampleId :

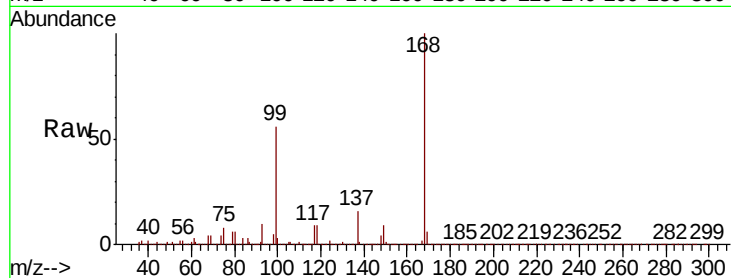
WATER-COMP

Tot Ion:168 Resp: 1036057

Ion Ratio Lower Upper

168 100

99 55.5 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

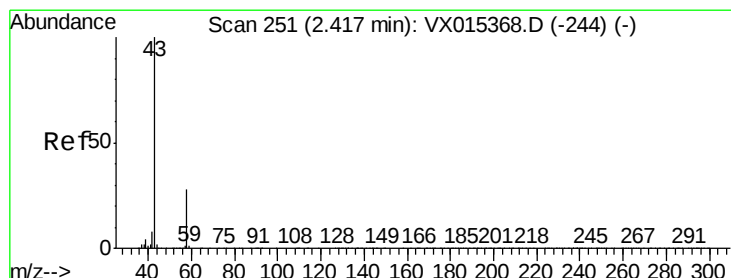
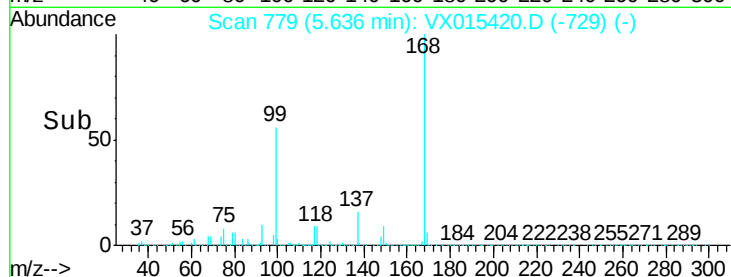
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 16.192 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015420.D

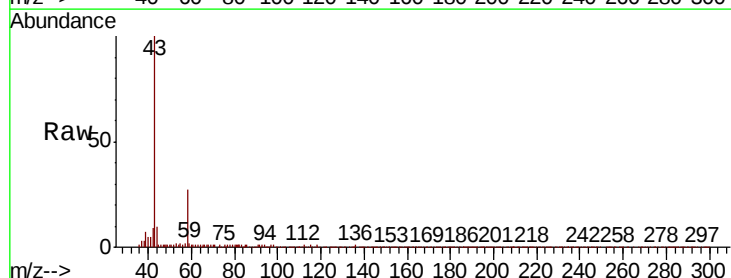
Acq: 28 Mar 2020 07:18

Tgt Ion: 43 Resp: 101649

Ion Ratio Lower Upper

43 100

58 27.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

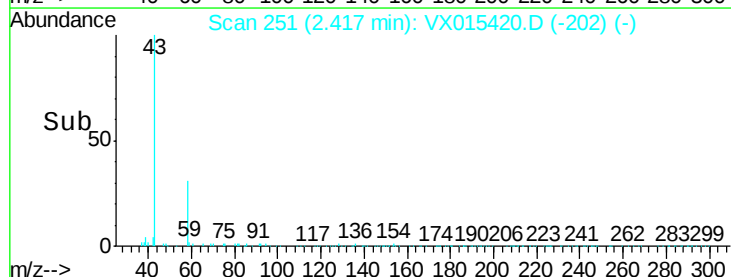
60000

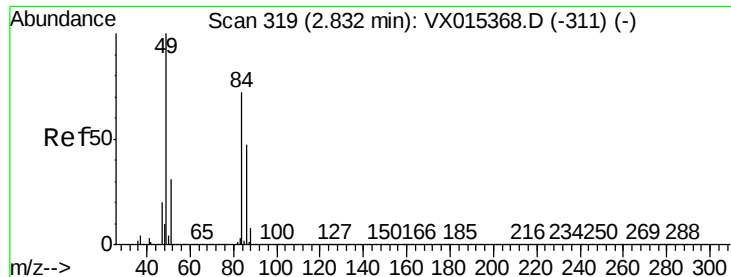
40000

20000

0

Time-->

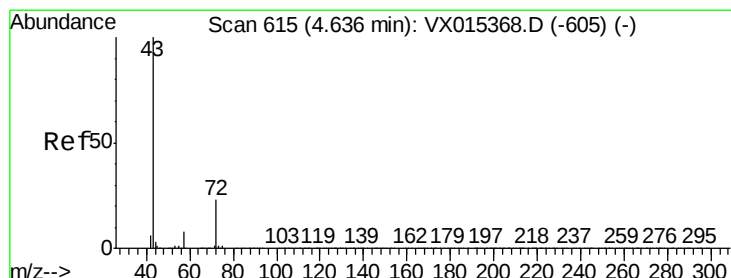
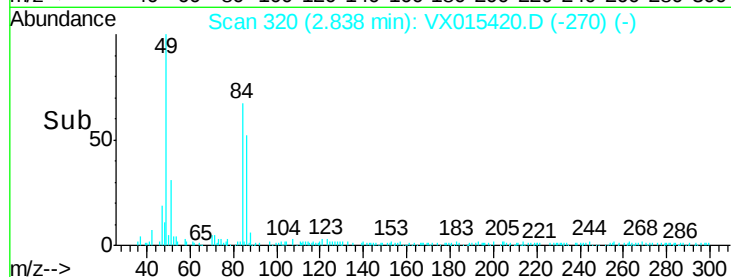
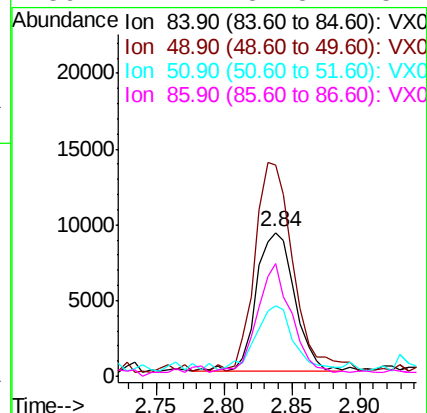
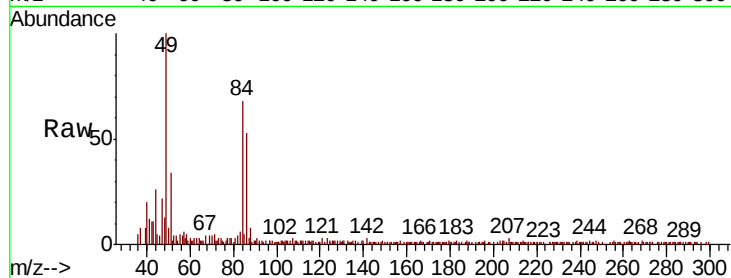




#20  
Methvlene Chloride  
Concen: 1.538 ug/l  
RT: 2.84 min Scan# 320  
Delta R.T. 0.01 min  
Lab File: VX015420.D  
Acq: 28 Mar 2020 07:18

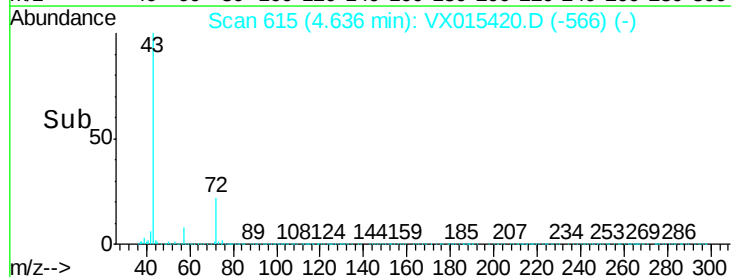
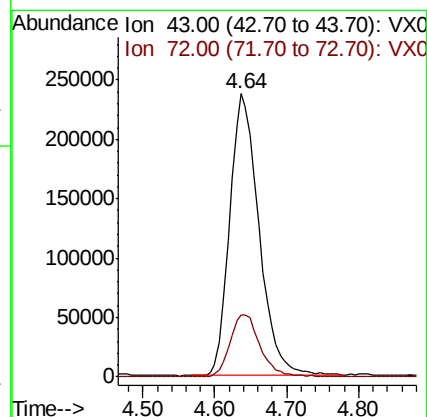
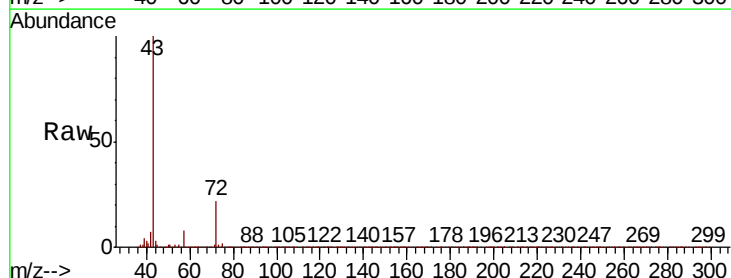
Instrument :  
MSVOA\_X  
ClientSampleId :  
WATER-COMP

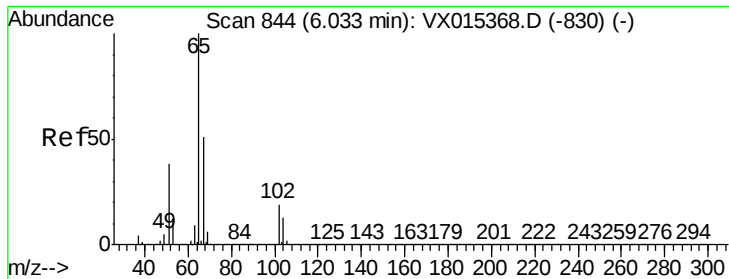
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 18034 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 148.9 | 111.3 | 166.9 |
| 51       | 45.0  | 34.0  | 51.0  |
| 86       | 77.1  | 52.5  | 78.7  |



#25  
2-Butanone  
Concen: 66.839 ug/l  
RT: 4.64 min Scan# 615  
Delta R.T. 0.00 min  
Lab File: VX015420.D  
Acq: 28 Mar 2020 07:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 674818 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 21.8  | 19.0  | 28.4   |





#33

1,2-Dichloroethane-d4

Concen: 49.757 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

Instrument :

MSVOA\_X

ClientSampleId :

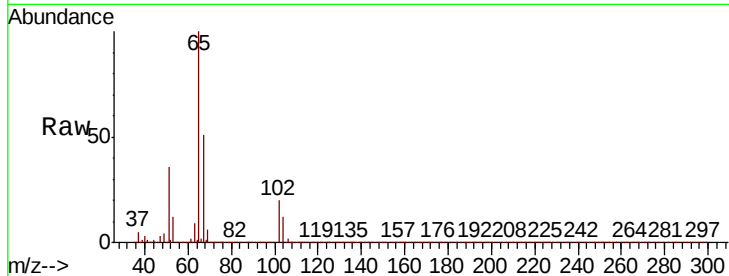
WATER-COMP

Tot Ion: 65 Resp: 727077

Ion Ratio Lower Upper

65 100

67 49.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

300000

250000

200000

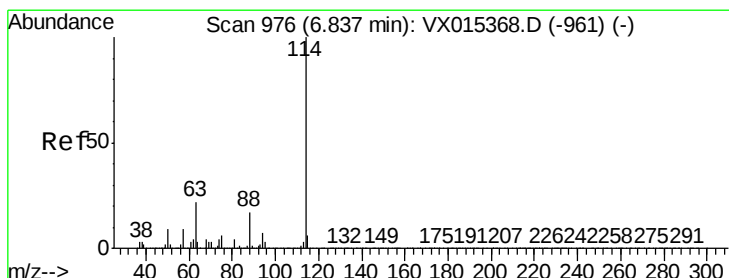
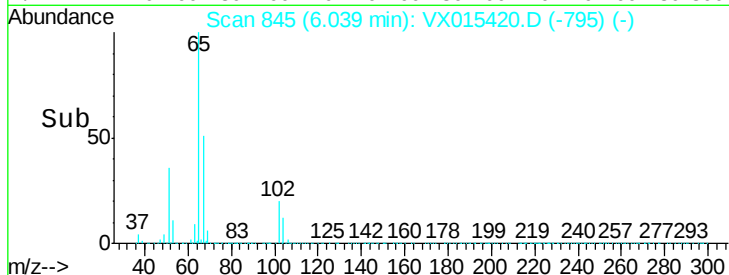
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

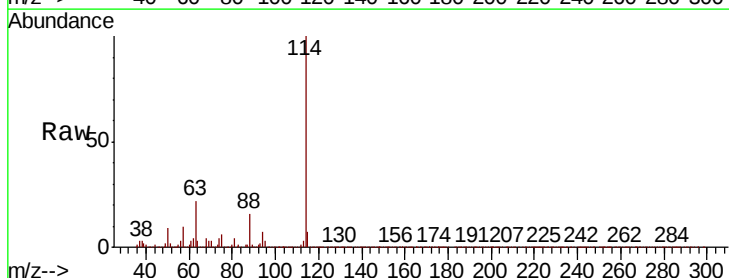
Tgt Ion: 114 Resp: 1734437

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.2

88 16.4 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

1000000

800000

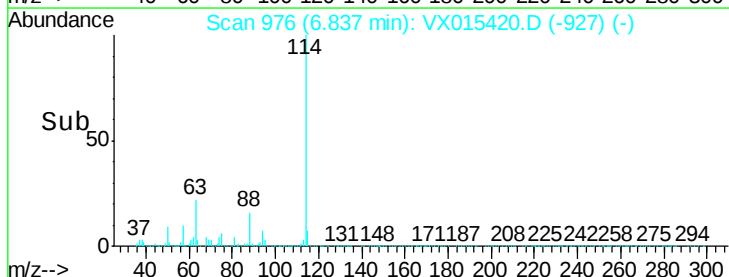
600000

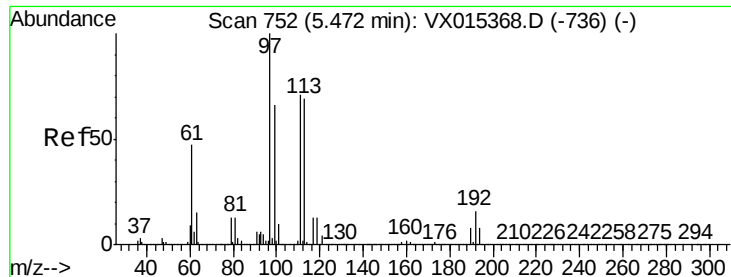
400000

200000

0

Time-->

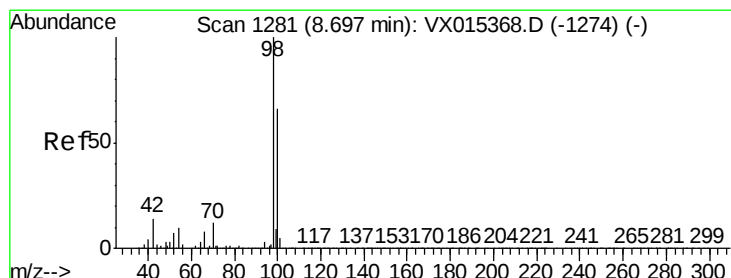
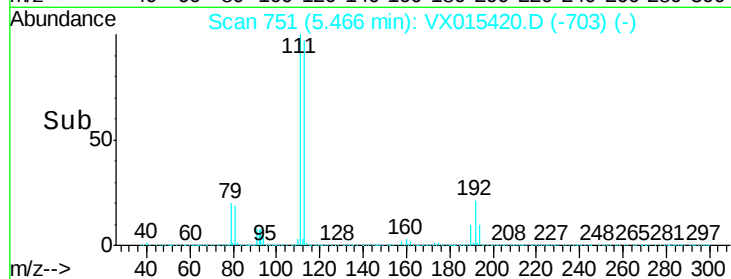
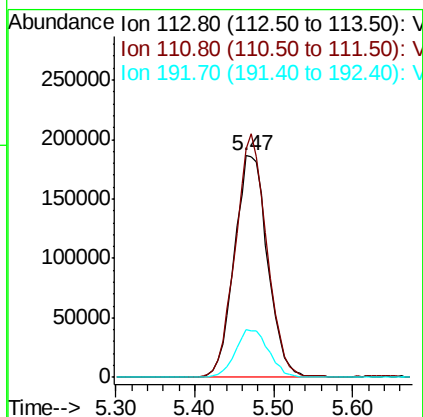
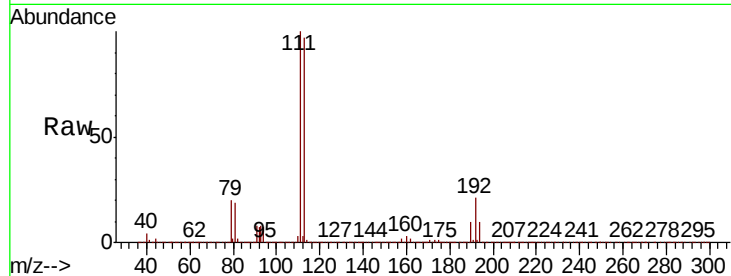




#35  
Dibromofluoromethane  
Concen: 49.080 ug/l  
RT: 5.47 min Scan# 751  
Delta R.T. -0.01 min  
Lab File: VX015420.D  
Acq: 28 Mar 2020 07:18

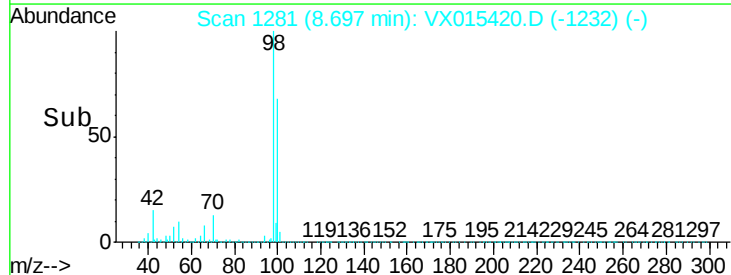
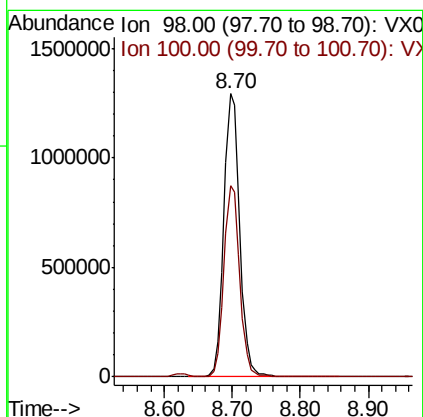
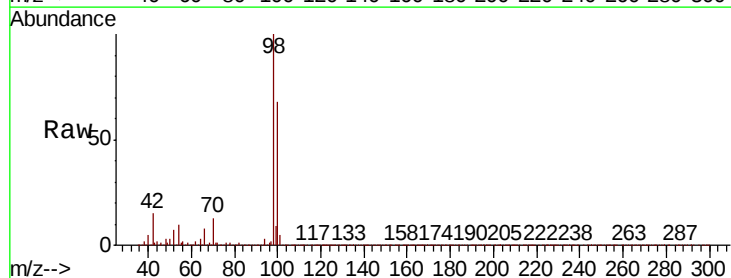
Instrument :  
MSVOA\_X  
ClientSampleId :  
WATER-COMP

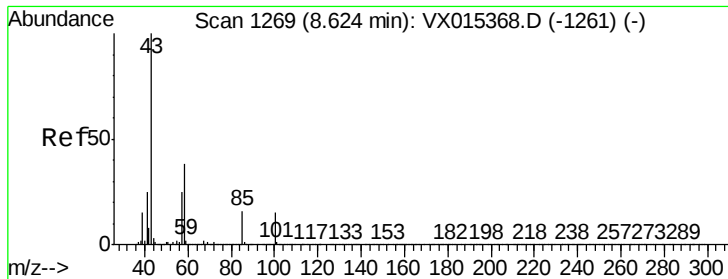
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.9 | 81.5  | 122.3 |
| 192     | 21.7  | 17.8  | 26.6  |



#50  
Toluene-d8  
Concen: 51.081 ug/l  
RT: 8.70 min Scan# 1281  
Delta R.T. 0.00 min  
Lab File: VX015420.D  
Acq: 28 Mar 2020 07:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 67.4  | 53.5  | 80.3  |





#51

4-Methyl-2-Pentanone

Concen: 8.582 ug/l

RT: 8.62 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

Instrument :

MSVOA\_X

ClientSampleId :

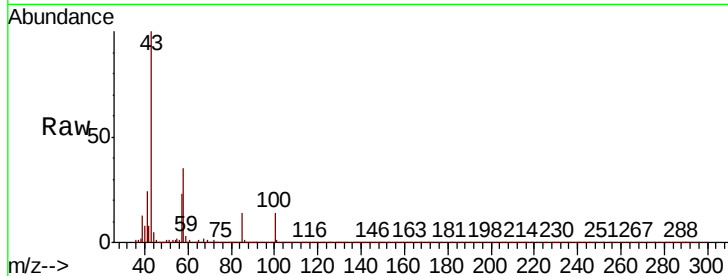
WATER-COMP

Tot Ion: 43 Resp: 170845

Ion Ratio Lower Upper

43 100

58 36.6 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

120000

100000

80000

60000

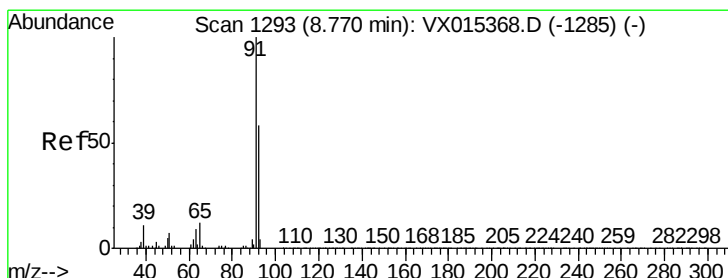
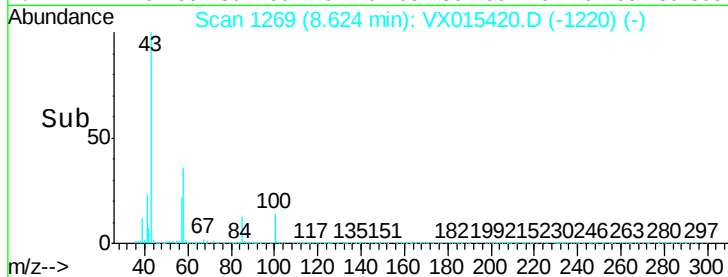
40000

20000

0

8.55 8.60 8.65 8.70

Time-->



#52

Toluene

Concen: 2.901 ug/l

RT: 8.77 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VX015420.D

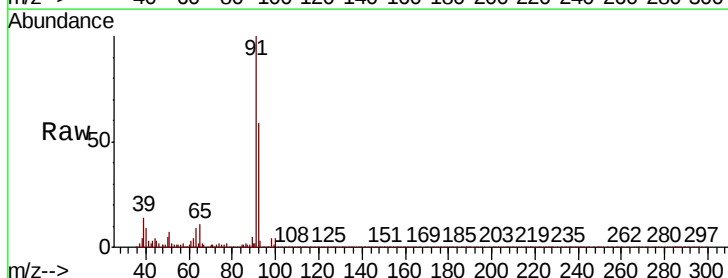
Acq: 28 Mar 2020 07:18

Tgt Ion: 92 Resp: 83729

Ion Ratio Lower Upper

92 100

91 172.5 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

100000

80000

60000

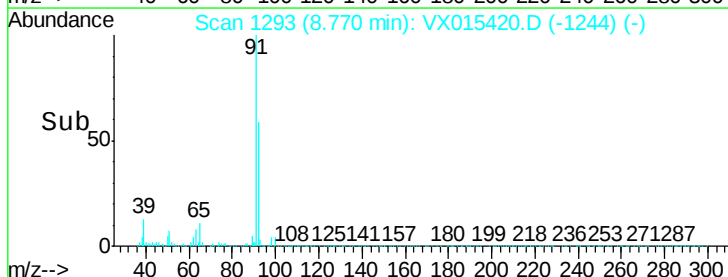
40000

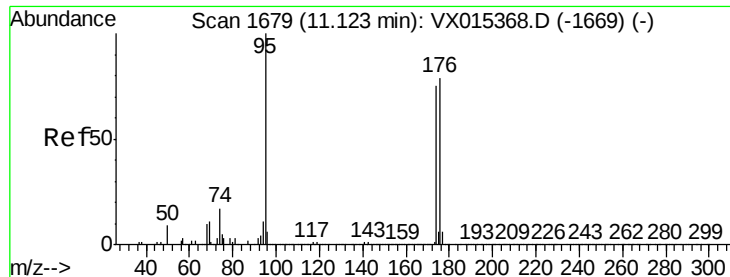
20000

0

8.70 8.75 8.80 8.85

Time-->





#62

4-Bromofluorobenzene

Concen: 55.312 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

Instrument :

MSVOA\_X

ClientSampleId :

WATER-COMP

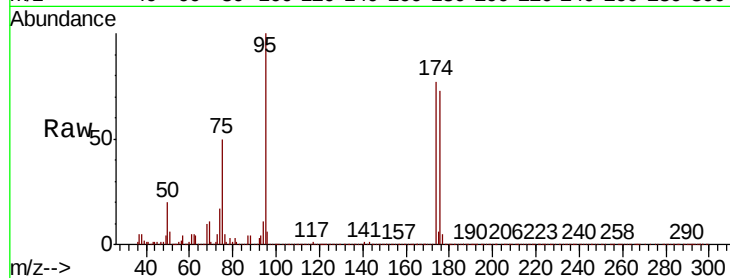
Tot Ion: 95 Resp: 917574

Ion Ratio Lower Upper

95 100

174 75.8 0.0 158.6

176 73.3 0.0 159.0

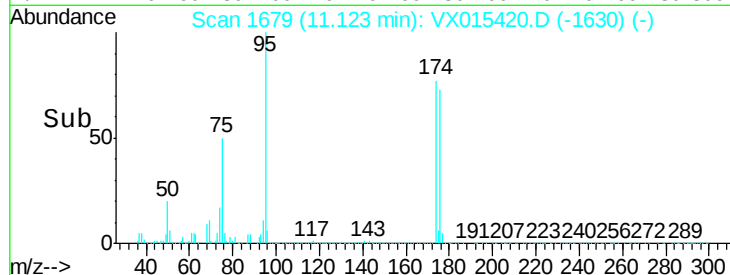


Abundance Ion 94.90 (94.60 to 95.60): VX015420.D (-1630) (-)

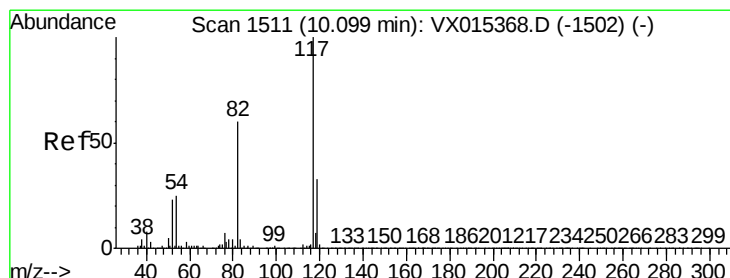
Ion 173.80 (173.50 to 174.50): VX015420.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX015420.D (-1630) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

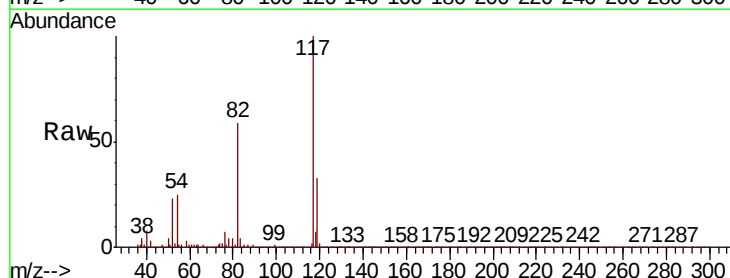
Tgt Ion: 117 Resp: 1657572

Ion Ratio Lower Upper

117 100

82 58.8 47.8 71.8

119 32.5 26.8 40.2

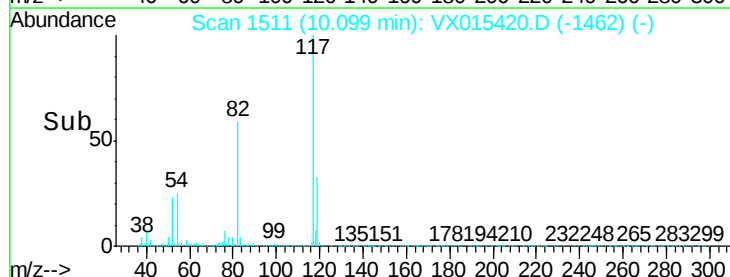


Abundance Ion 116.90 (116.60 to 117.60): VX015420.D (-1462) (-)

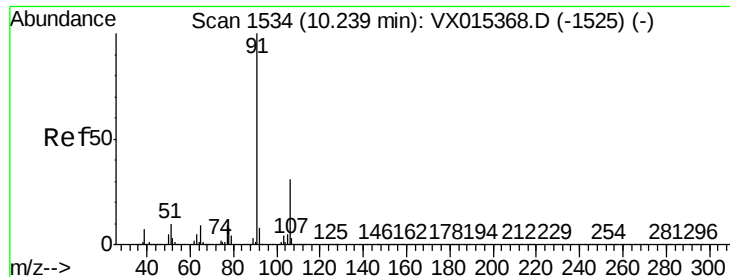
Ion 82.00 (81.70 to 82.70): VX015420.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015420.D (-1462) (-)

Time-->



Time-->



#67

Ethyl Benzene

Concen: 2.601 ug/l

RT: 10.24 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

Instrument :

MSVOA\_X

ClientSampleId :

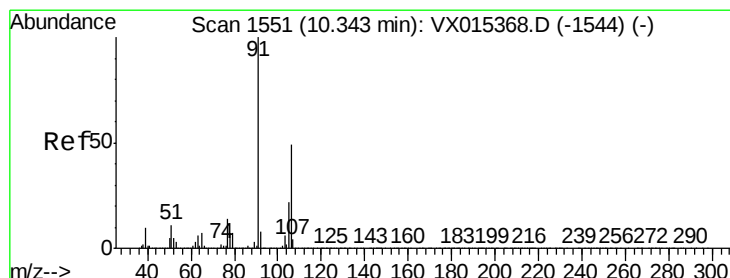
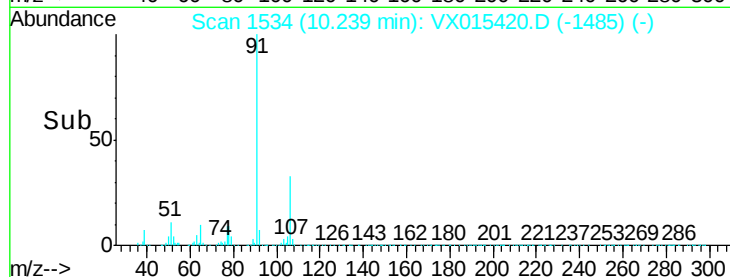
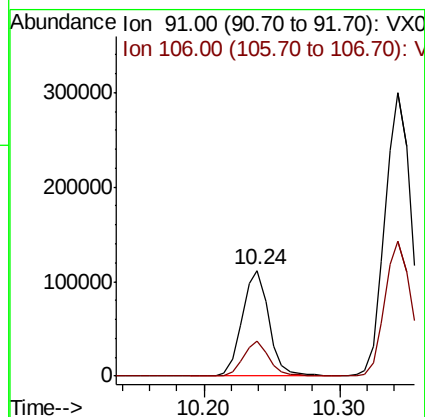
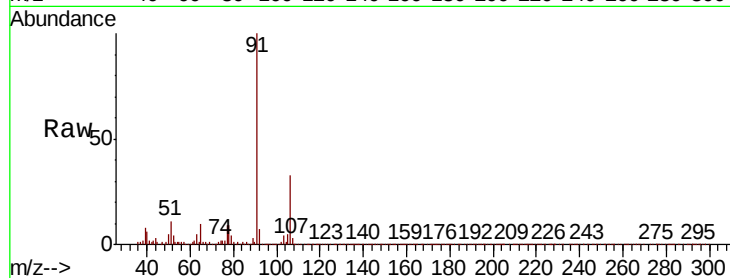
WATER-COMP

Tot Ion: 91 Resp: 152509

Ion Ratio Lower Upper

91 100

106 32.7 24.8 37.2



#68

m/p-Xylenes

Concen: 9.091 ug/l

RT: 10.34 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VX015420.D

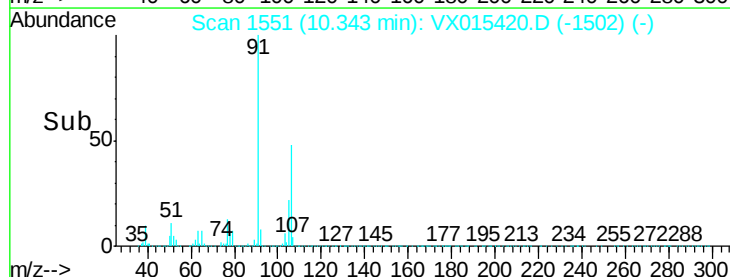
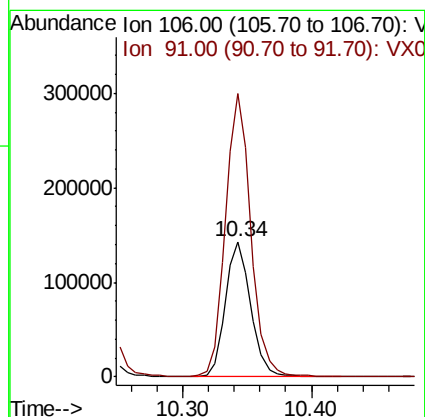
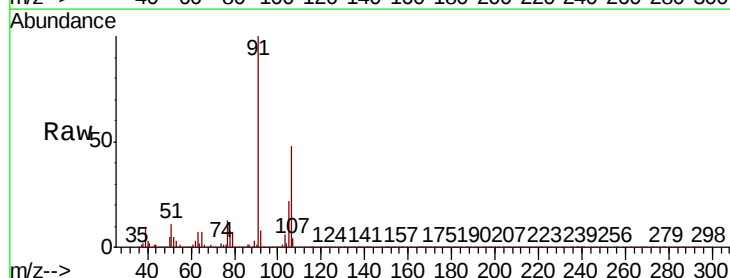
Acq: 28 Mar 2020 07:18

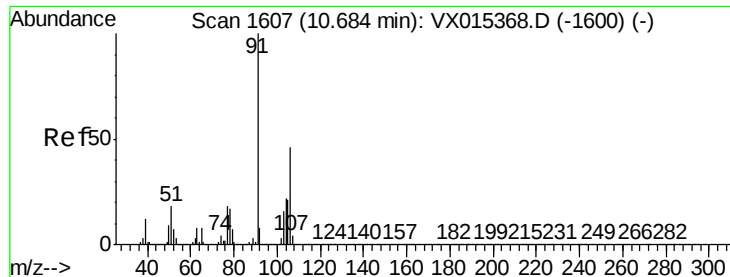
Tgt Ion: 106 Resp: 198482

Ion Ratio Lower Upper

106 100

91 208.8 163.4 245.0

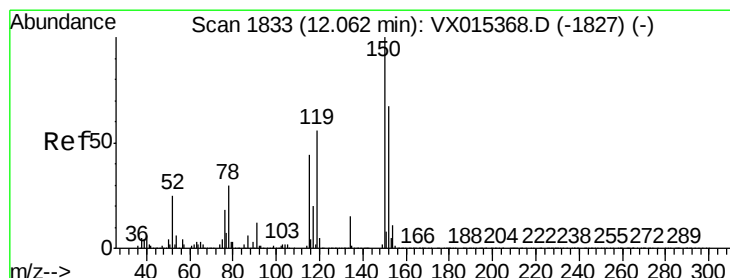
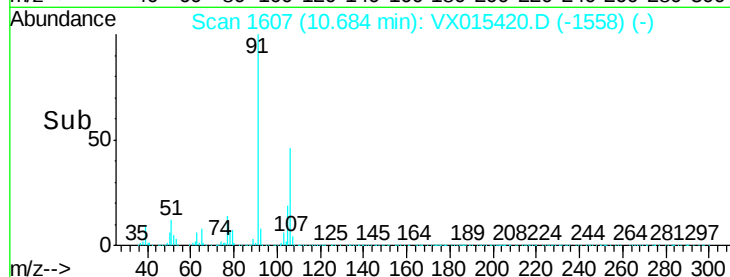
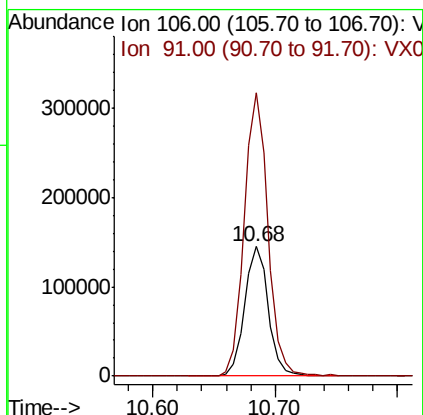
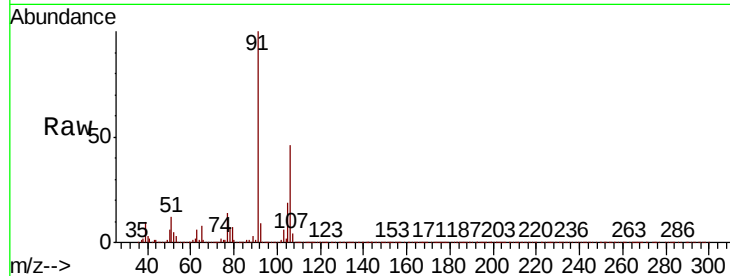




#69  
o-Xylene  
Concen: 8.937 ug/l  
RT: 10.68 min Scan# 1607  
Delta R.T. 0.00 min  
Lab File: VX015420.D  
Acq: 28 Mar 2020 07:18

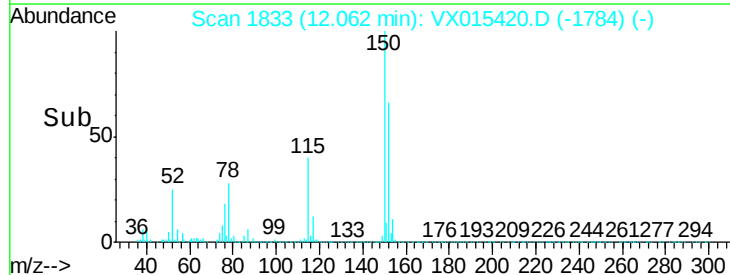
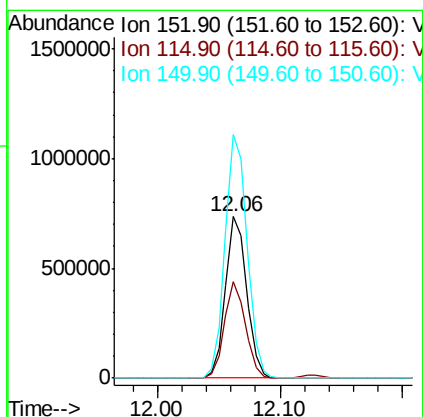
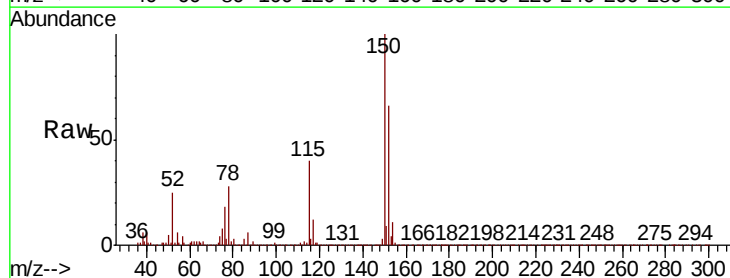
Instrument :  
MSVOA\_X  
ClientSampleId :  
WATER-COMP

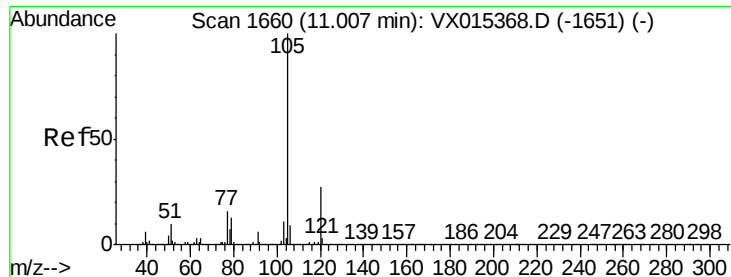
Tot Ion:106 Resp: 192791  
Ion Ratio Lower Upper  
106 100  
91 219.1 107.1 321.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. 0.00 min  
Lab File: VX015420.D  
Acq: 28 Mar 2020 07:18

Tgt Ion:152 Resp: 882580  
Ion Ratio Lower Upper  
152 100  
115 59.1 39.0 116.9  
150 156.5 0.0 340.8





#73

Isopropylbenzene

Concen: 1.059 ug/l

RT: 11.00 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VX015420.D

Acq: 28 Mar 2020 07:18

Instrument :

MSVOA\_X

ClientSampleId :

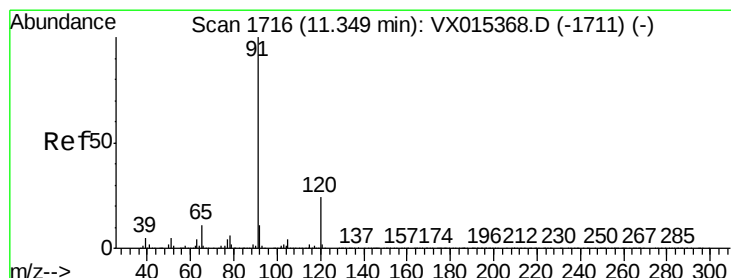
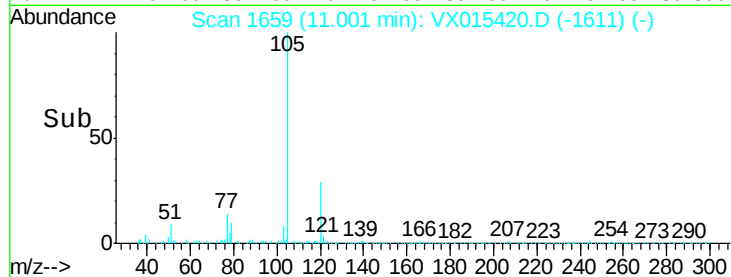
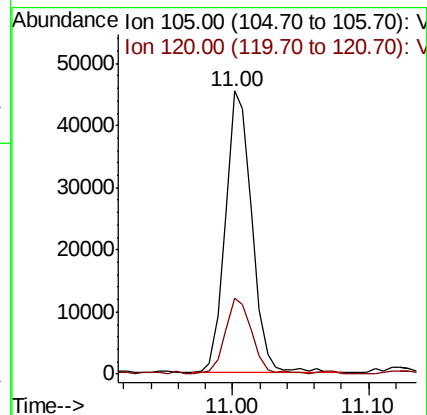
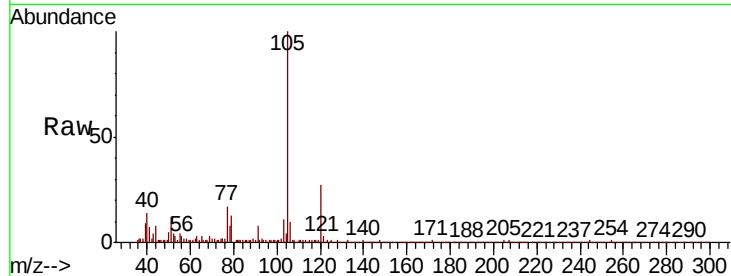
WATER-COMP

Tot Ion:105 Resp: 61240

Ion Ratio Lower Upper

105 100

120 27.2 13.2 39.5



#78

n-propylbenzene

Concen: 1.533 ug/l

RT: 11.35 min Scan# 1716

Delta R.T. 0.00 min

Lab File: VX015420.D

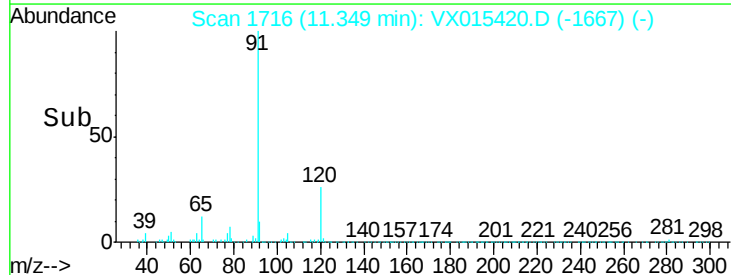
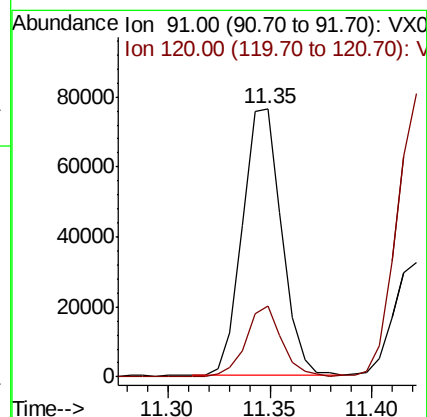
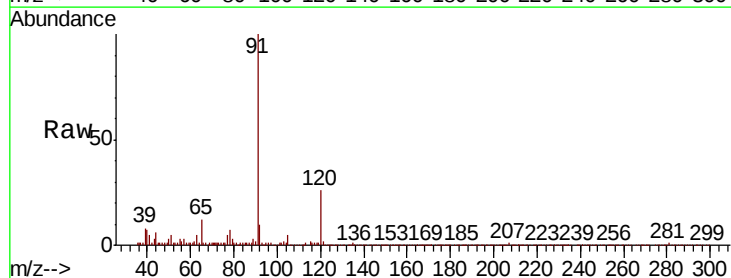
Acq: 28 Mar 2020 07:18

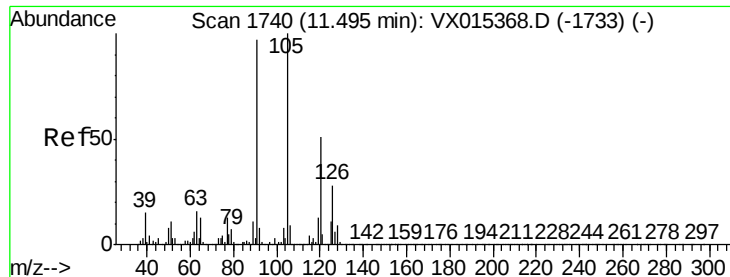
Tgt Ion: 91 Resp: 101390

Ion Ratio Lower Upper

91 100

120 24.1 11.7 35.0

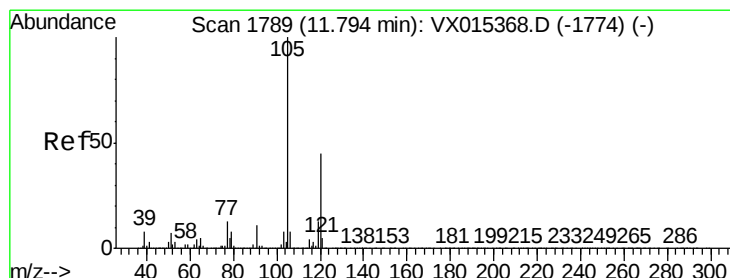
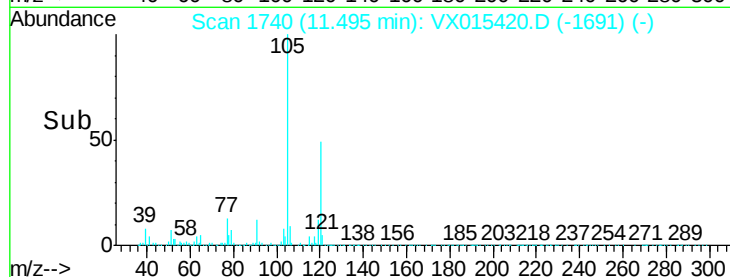
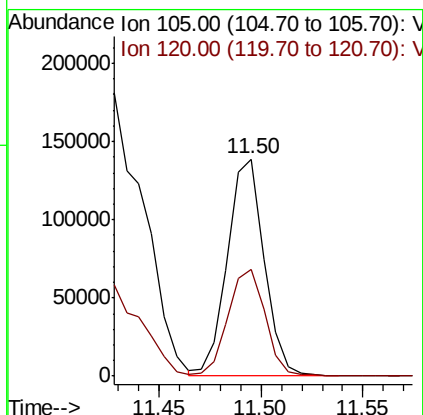
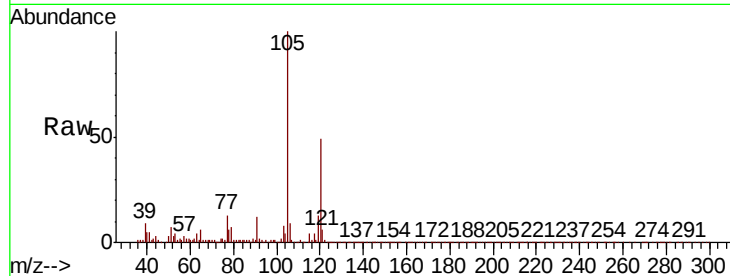




#80  
 1,3,5-Trimethylbenzene  
 Concen: 3.482 ug/l  
 RT: 11.50 min Scan# 1740  
 Delta R.T. 0.00 min  
 Lab File: VX015420.D  
 Acq: 28 Mar 2020 07:18

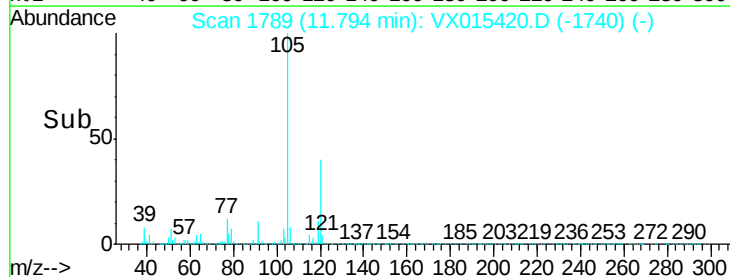
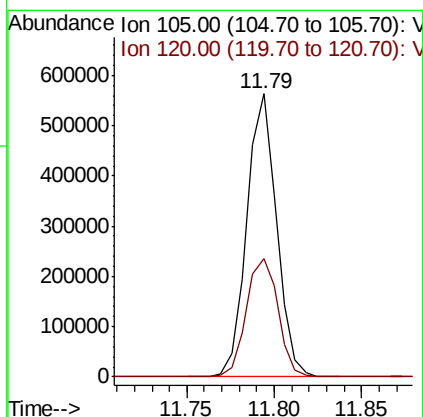
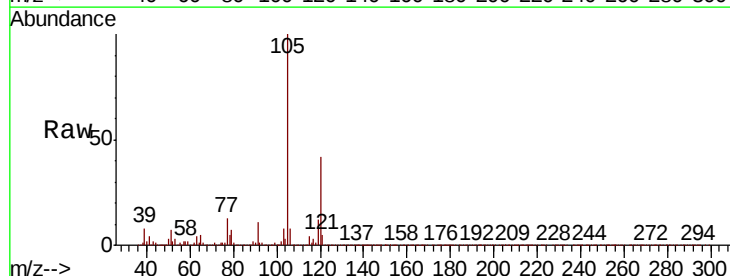
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WATER-COMP

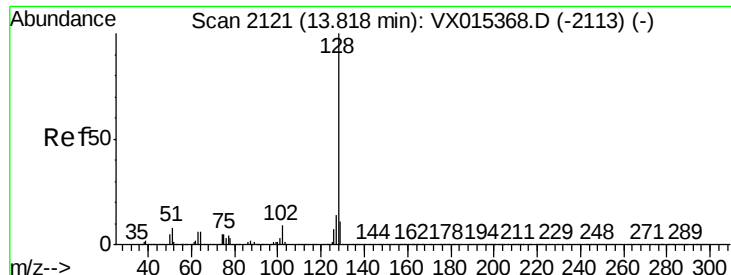
Tot Ion:105 Resp: 171982  
 Ion Ratio Lower Upper  
 105 100  
 120 49.5 24.8 74.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 13.235 ug/l  
 RT: 11.79 min Scan# 1789  
 Delta R.T. 0.00 min  
 Lab File: VX015420.D  
 Acq: 28 Mar 2020 07:18

Tgt Ion:105 Resp: 666095  
 Ion Ratio Lower Upper  
 105 100  
 120 44.8 22.7 68.1





#95  
Naphthalene  
Concen: 1.562 ug/l  
RT: 13.82 min Scan# 2121  
Delta R.T. 0.00 min  
Lab File: VX015420.D  
Acq: 28 Mar 2020 07:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
WATER-COMP

Tot Ion:128 Resp: 101871  
Ion Ratio Lower Upper  
128 100  
127 14.5 10.6 15.8  
129 16.3 8.8 13.2#

