

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110918\  
 Data File : VX005889.D  
 Acq On : 10 Nov 2018 04:24  
 Operator : JC/MD  
 Sample : J5889-11  
 Misc : 12.72u/5mL/100uL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BOTTOM-B

Quant Time: Nov 12 02:57:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 138801   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 200964   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 173598   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 94065    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 80268    | 50.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.60% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 64244    | 47.00 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 94.00%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 228879   | 50.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.74% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 89019    | 54.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.98% |          |

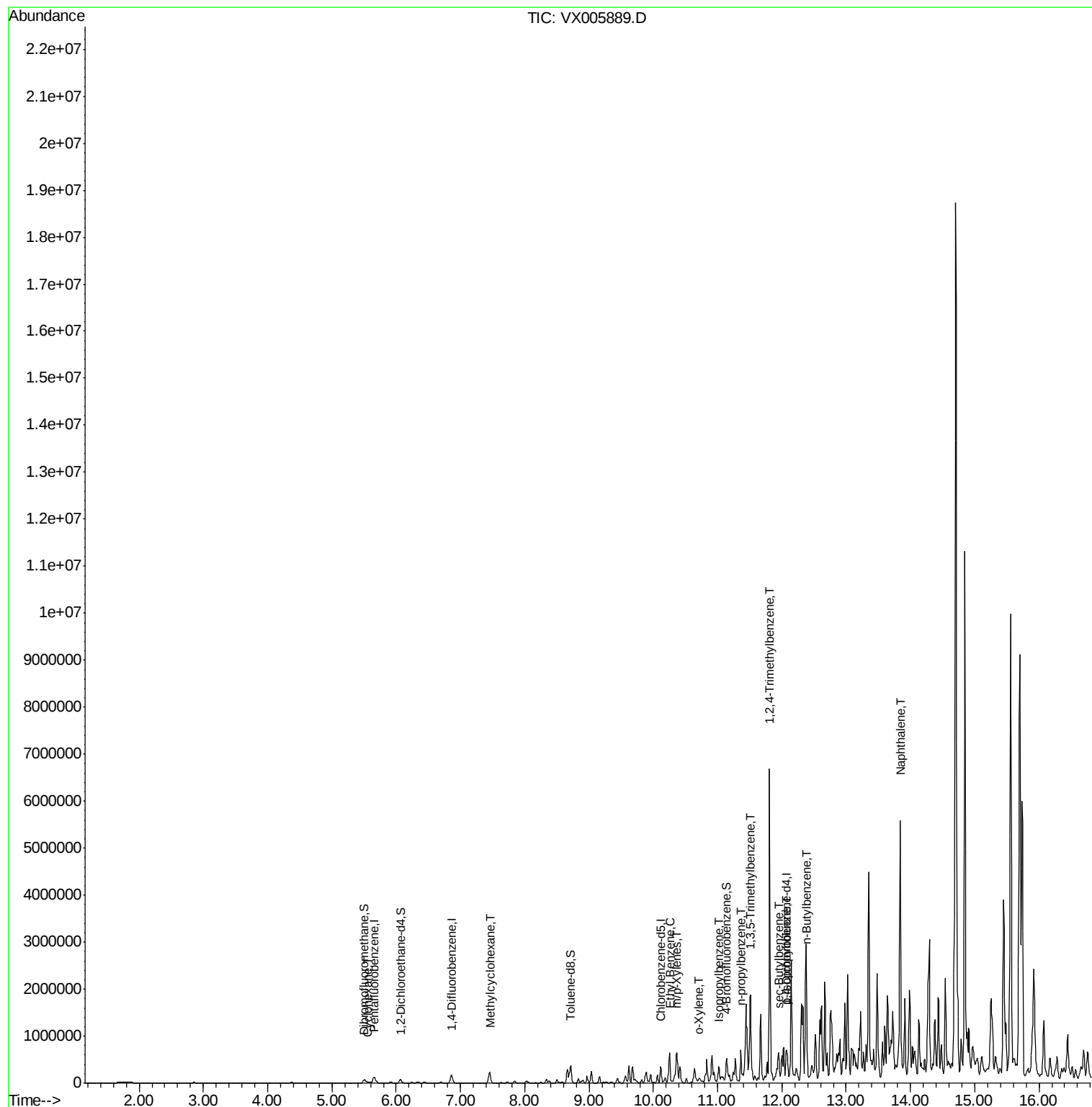
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 31) Cyclohexane            | 5.56  | 56   | 15676    | 7.052   | ug/l   | 96     |
| 39) Methylcyclohexane      | 7.46  | 83   | 104094   | 53.013  | ug/l   | 96     |
| 67) Ethyl Benzene          | 10.26 | 91   | 371028   | 66.533  | ug/l   | 99     |
| 68) m/p-Xylenes            | 10.36 | 106  | 118823   | 55.861  | ug/l   | 100    |
| 69) o-Xylene               | 10.70 | 106  | 7723     | 4.049   | ug/l   | 99     |
| 73) Isopropylbenzene       | 11.02 | 105  | 165711   | 30.463  | ug/l   | 100    |
| 78) n-propylbenzene        | 11.36 | 91   | 414673   | 64.683  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 786745   | 170.195 | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 2755458  | 541.312 | ug/l   | 98     |
| 85) sec-Butylbenzene       | 11.95 | 105  | 219445   | 38.373  | ug/l   | 81     |
| 86) p-Isopropyltoluene     | 12.07 | 119  | 210146   | 41.485  | ug/l   | 99     |
| 89) n-Butylbenzene         | 12.39 | 91   | 384857   | 81.976  | ug/l # | 31     |
| 95) Naphthalene            | 13.84 | 128  | 3311666  | 479.010 | ug/l   | 98     |

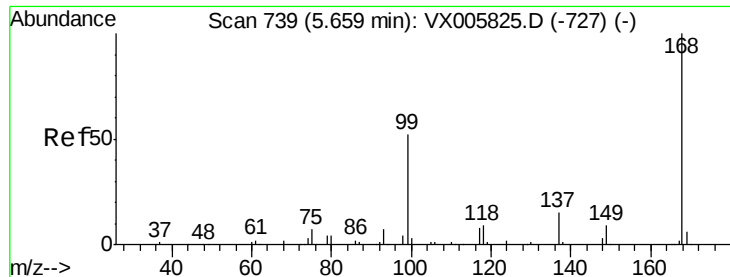
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX110918\  
Data File : VX005889.D  
Acq On : 10 Nov 2018 04:24  
Operator : JC/MD  
Sample : J5889-11  
Misc : 12.72g/5mL/100uL/5.0mL/MSVOA\_X/MEOH  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BOTTOM-B

Quant Time: Nov 12 02:57:55 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 07 14:40:53 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

Instrument :

MSVOA\_X

ClientSampled :

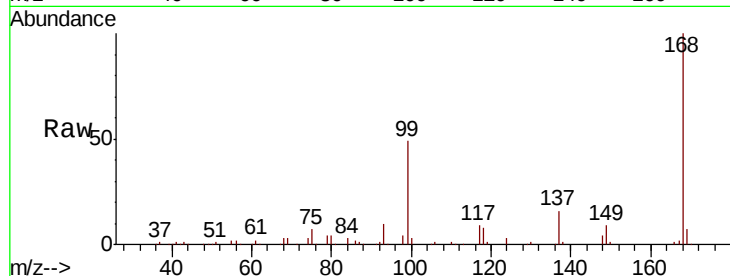
BOTTOM-B

Tot Ion:168 Resp: 138801

Ion Ratio Lower Upper

168 100

99 49.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

50000

40000

30000

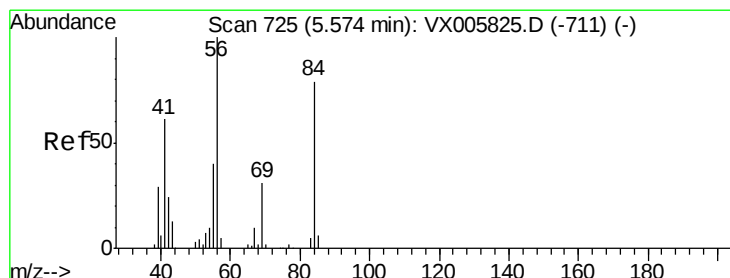
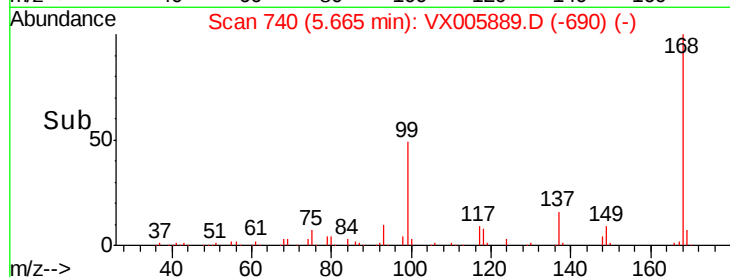
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 7.052 ug/l

RT: 5.56 min Scan# 722

Delta R.T. -0.02 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

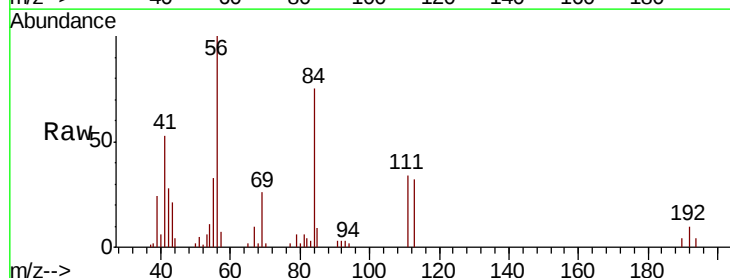
Tgt Ion: 56 Resp: 15676

Ion Ratio Lower Upper

56 100

69 25.9 22.6 34.0

84 75.0 62.7 94.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

6000

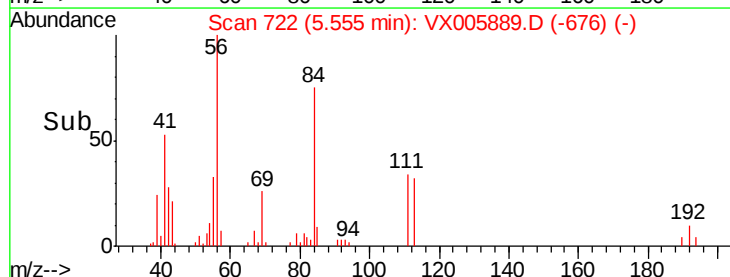
4000

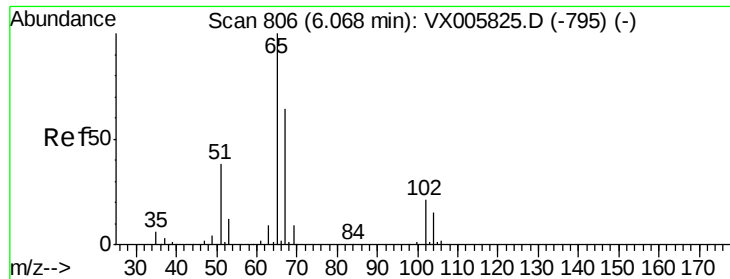
2000

0

Time-->

5.50 5.60





#33

1,2-Dichloroethane-d4

Concen: 50.303 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

Instrument :

MSVOA\_X

ClientSampled :

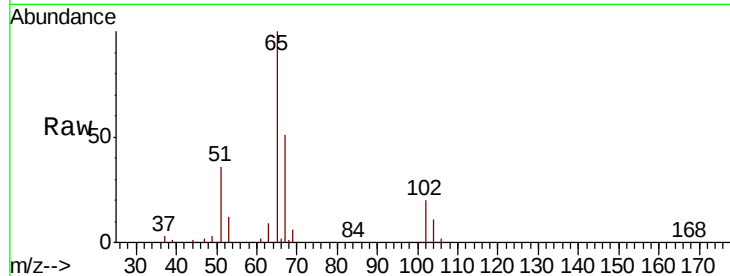
BOTTOM-B

Tot Ion: 65 Resp: 80268

Ion Ratio Lower Upper

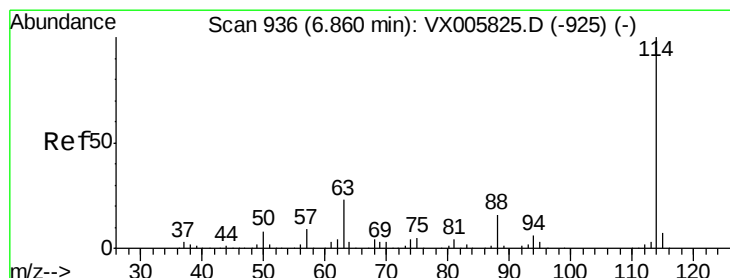
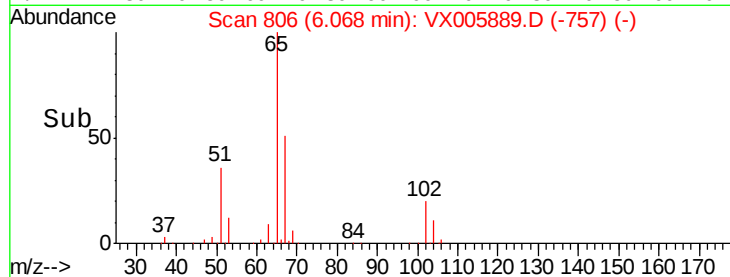
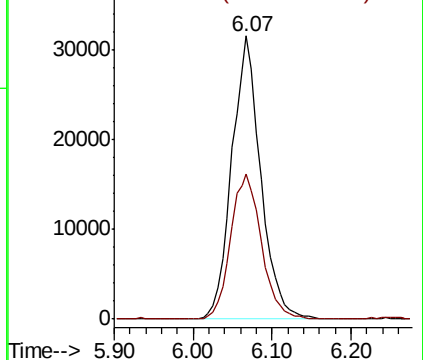
65 100

67 54.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

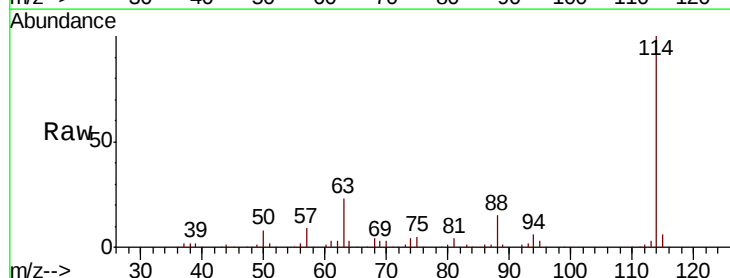
Tgt Ion: 114 Resp: 200964

Ion Ratio Lower Upper

114 100

63 23.2 0.0 42.8

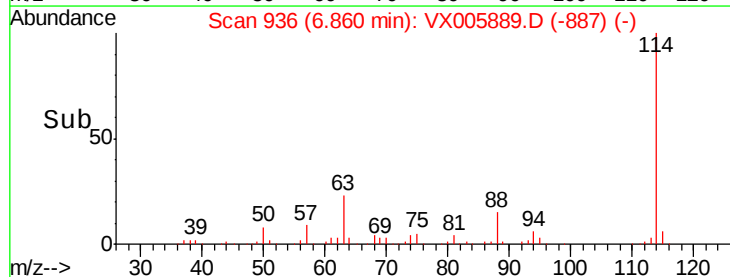
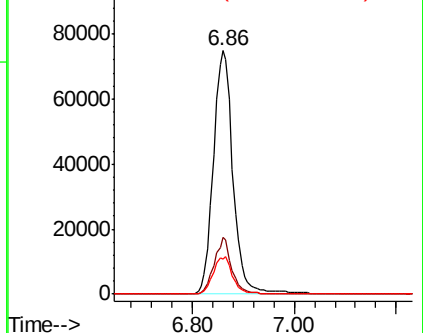
88 14.6 0.0 31.2

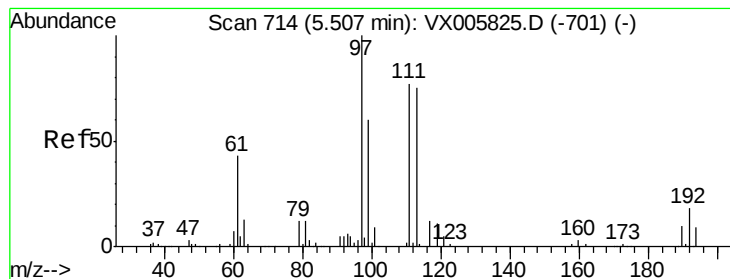


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.001 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

Instrument :

MSVOA\_X

ClientSampled :

BOTTOM-B

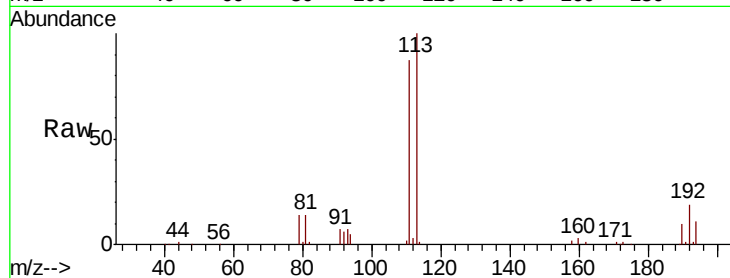
Tot Ion:113 Resp: 64244

Ion Ratio Lower Upper

113 100

111 102.1 82.3 123.5

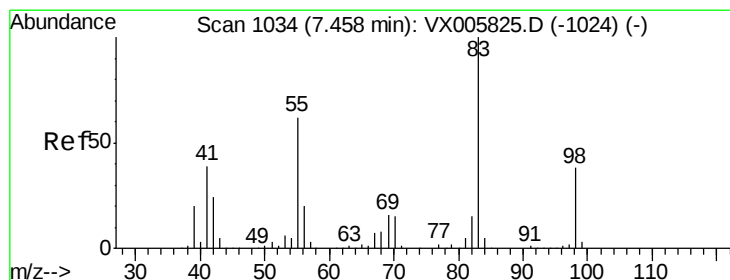
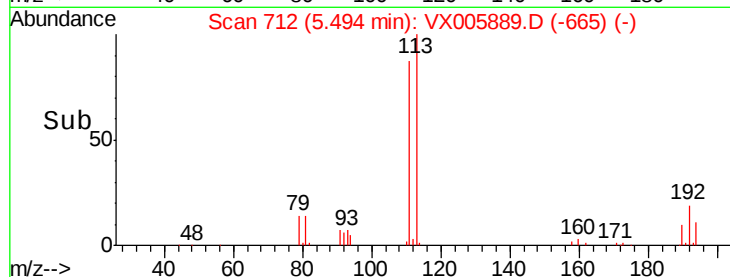
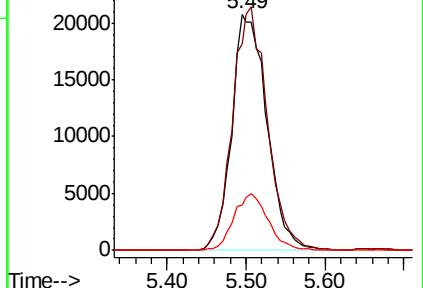
192 23.5 17.9 26.9



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



#39

Methylcyclohexane

Concen: 53.013 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.01 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

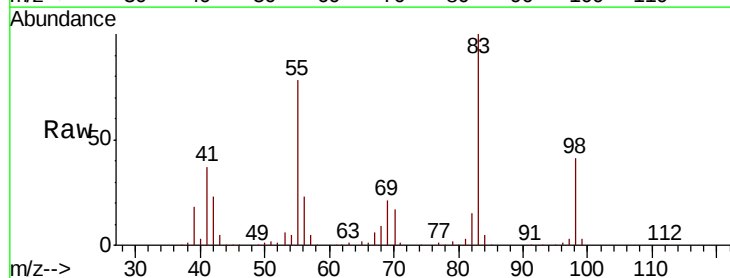
Tgt Ion: 83 Resp: 104094

Ion Ratio Lower Upper

83 100

55 77.8 63.7 95.5

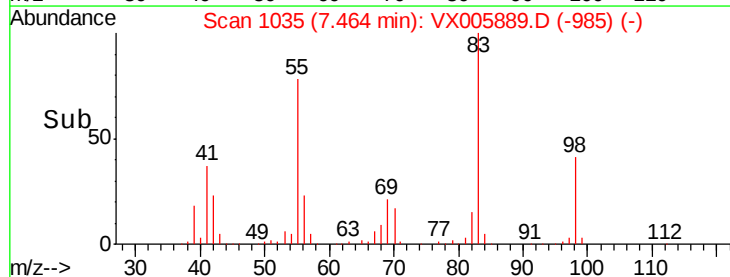
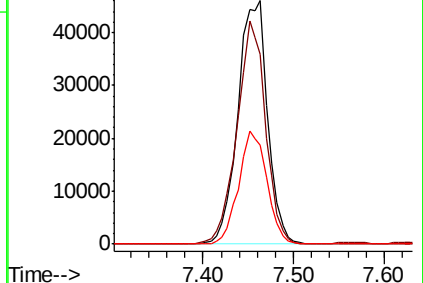
98 40.8 36.2 54.2

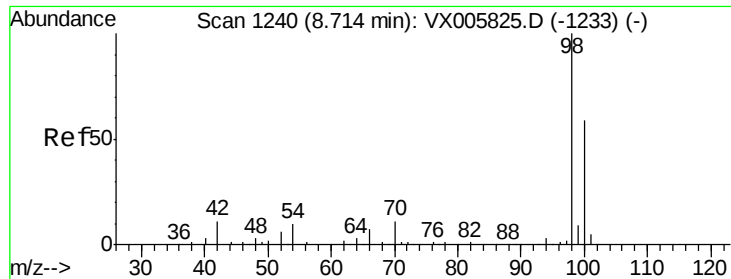


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 50.367 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

Instrument :

MSVOA\_X

ClientSampleId :

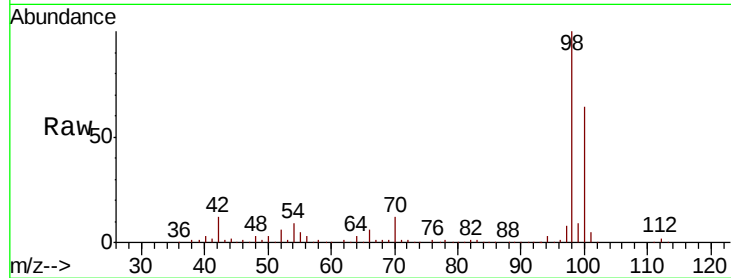
BOTTOM-B

Tot Ion: 98 Resp: 228879

Ion Ratio Lower Upper

98 100

100 65.3 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

150000

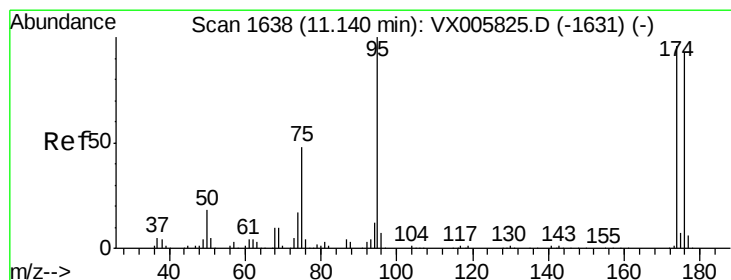
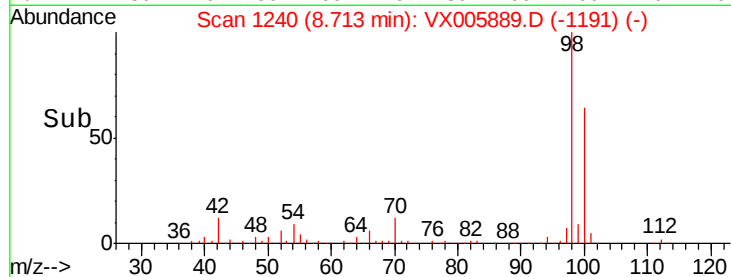
100000

50000

0

8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 54.485 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

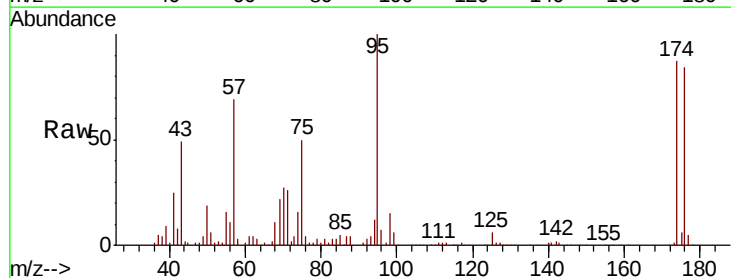
Tgt Ion: 95 Resp: 89019

Ion Ratio Lower Upper

95 100

174 87.2 0.0 184.4

176 84.0 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

80000

60000

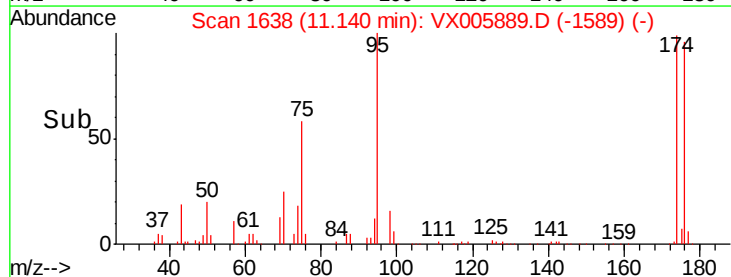
40000

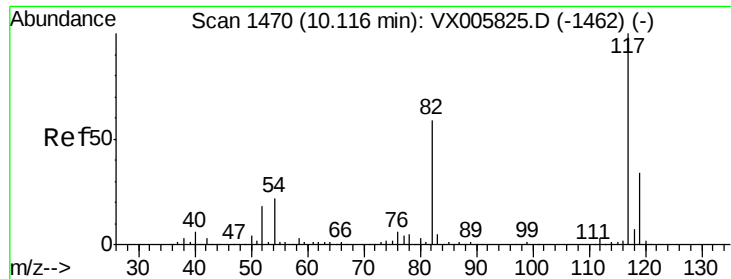
20000

0

11.10 11.15

Time-->

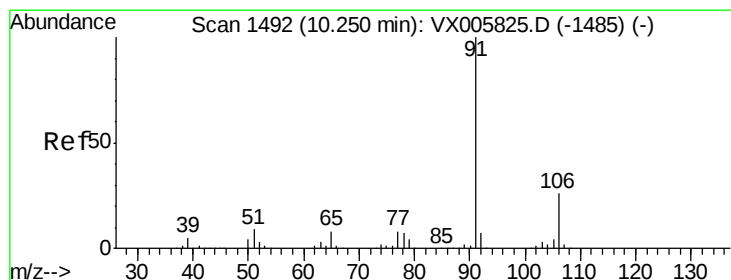
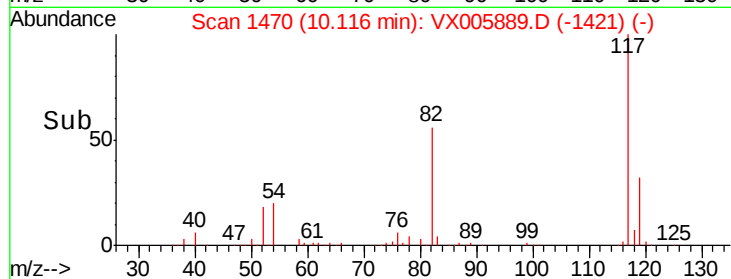
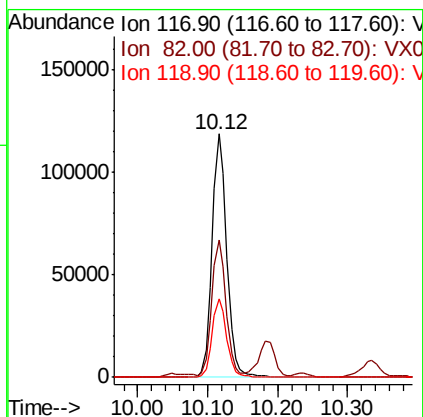
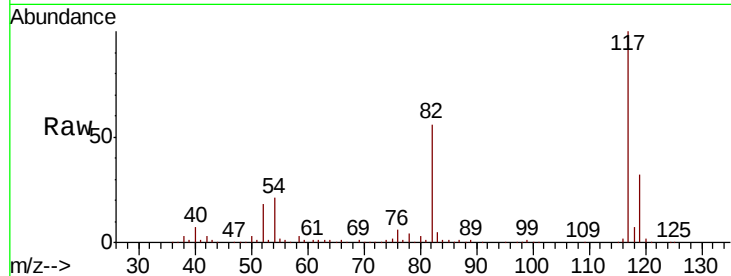




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005889.D  
Acq: 10 Nov 2018 04:24

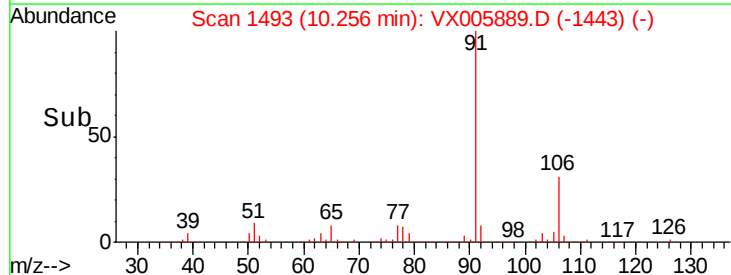
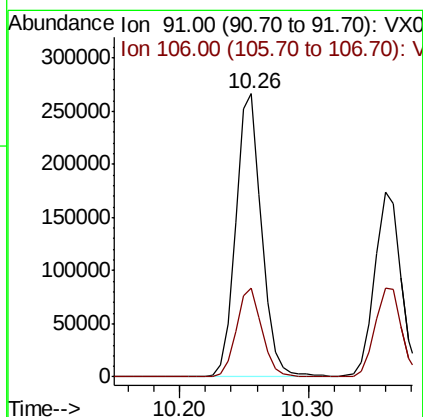
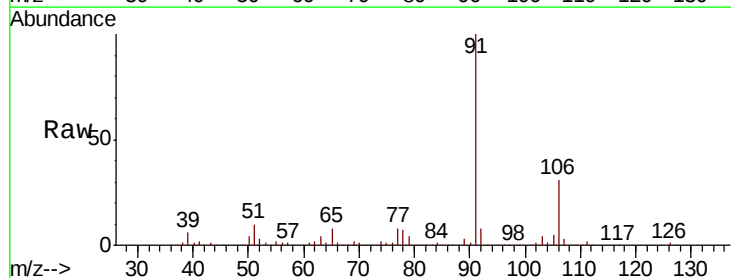
Instrument :  
MSVOA\_X  
ClientSampleId :  
BOTTOM-B

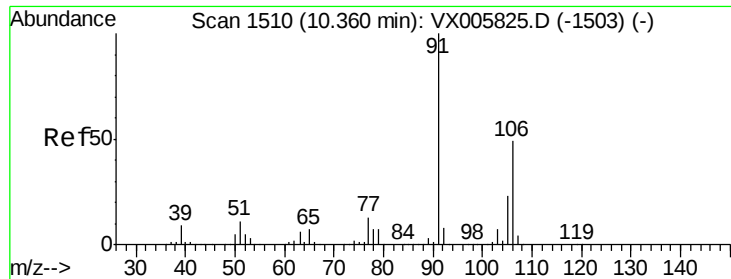
Tot Ion:117 Resp: 173598  
Ion Ratio Lower Upper  
117 100  
82 56.3 44.1 66.1  
119 32.2 26.2 39.2



#67  
Ethyl Benzene  
Concen: 66.533 ug/l  
RT: 10.26 min Scan# 1493  
Delta R.T. 0.01 min  
Lab File: VX005889.D  
Acq: 10 Nov 2018 04:24

Tgt Ion: 91 Resp: 371028  
Ion Ratio Lower Upper  
91 100  
106 31.3 24.4 36.6

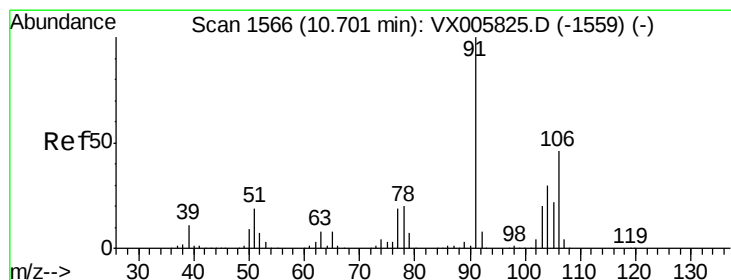
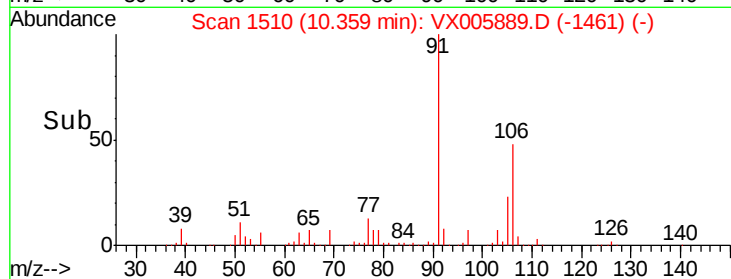
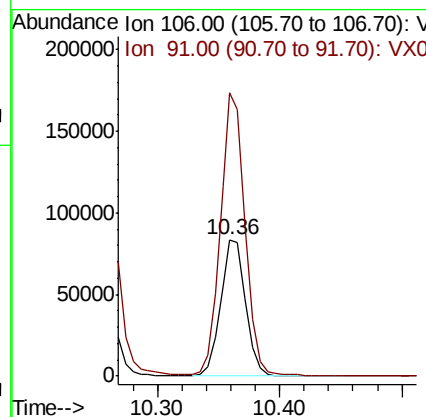
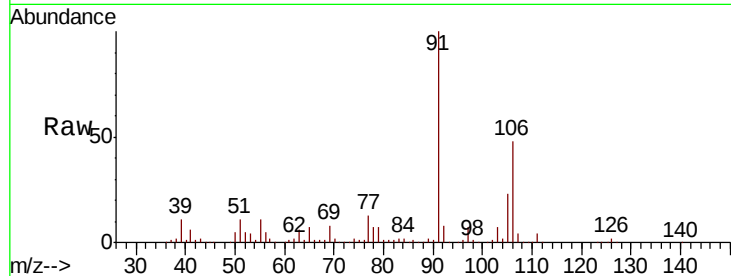




#68  
m/p-Xylenes  
Concen: 55.861 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. -0.00 min  
Lab File: VX005889.D  
Acq: 10 Nov 2018 04:24

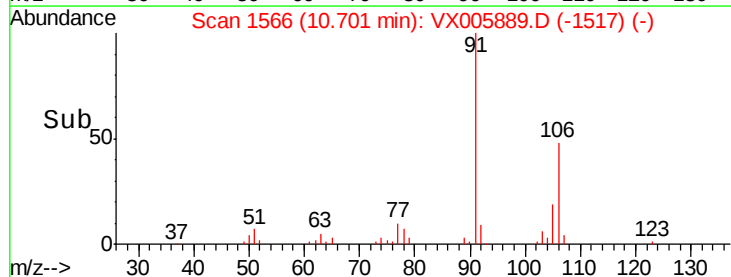
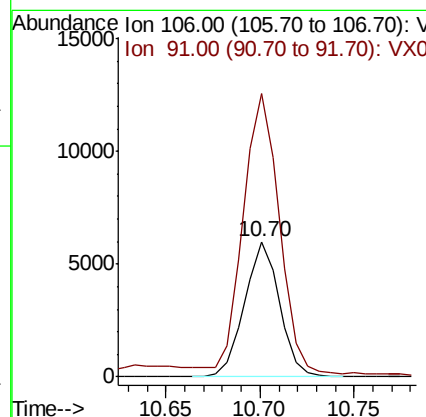
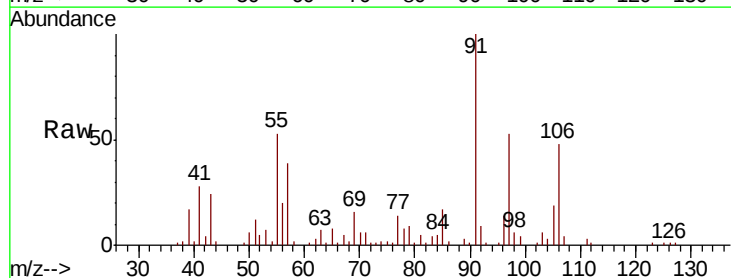
Instrument :  
MSVOA\_X  
ClientSampleId :  
BOTTOM-B

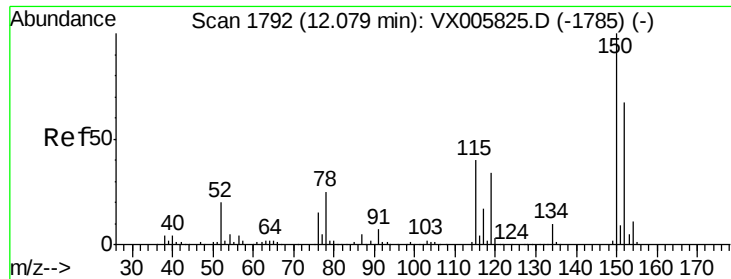
Tot Ion:106 Resp: 118823  
Ion Ratio Lower Upper  
106 100  
91 204.9 164.2 246.4



#69  
o-Xylene  
Concen: 4.049 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VX005889.D  
Acq: 10 Nov 2018 04:24

Tgt Ion:106 Resp: 7723  
Ion Ratio Lower Upper  
106 100  
91 218.1 108.5 325.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

Instrument :

MSVOA\_X

ClientSampleId :

BOTTOM-B

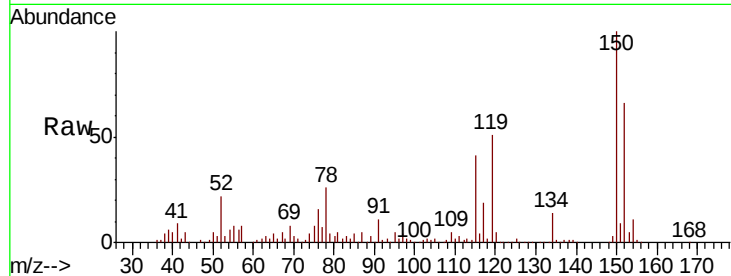
Tot Ion:152 Resp: 94065

Ion Ratio Lower Upper

152 100

115 71.3 39.4 118.1

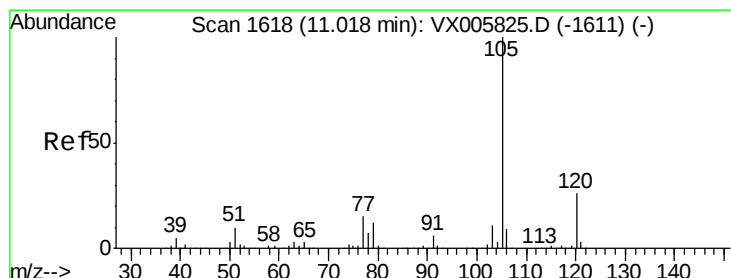
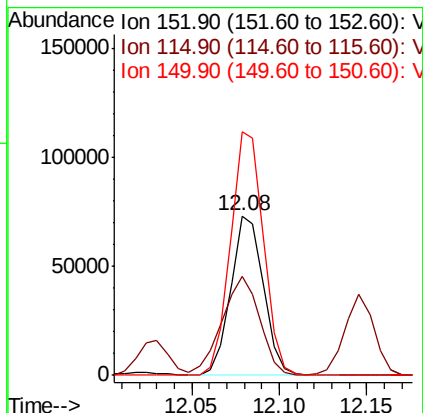
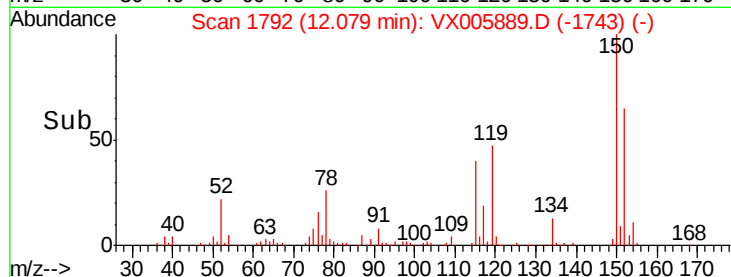
150 154.9 0.0 346.4



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: 30.463 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX005889.D

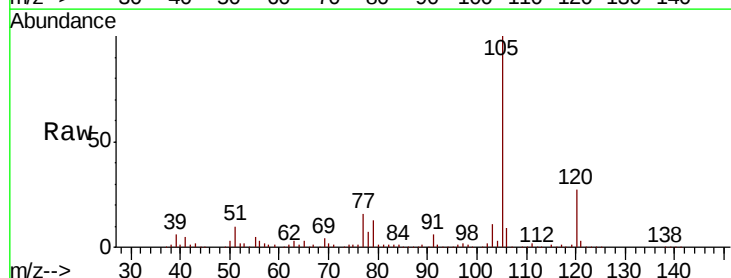
Acq: 10 Nov 2018 04:24

Tgt Ion:105 Resp: 165711

Ion Ratio Lower Upper

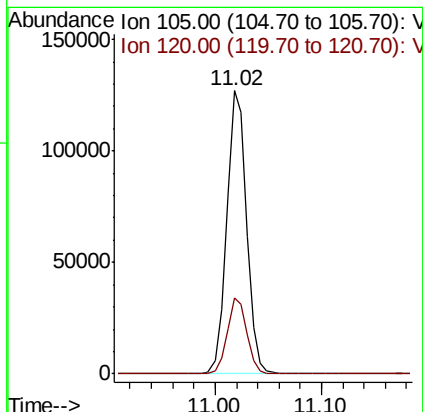
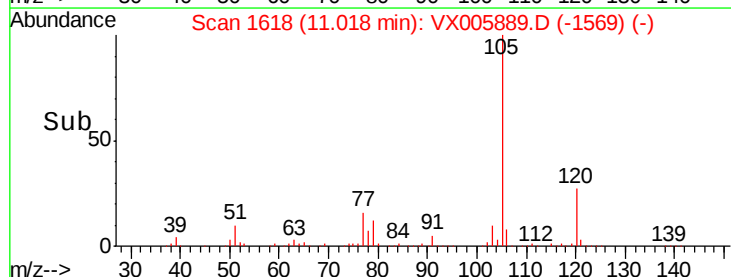
105 100

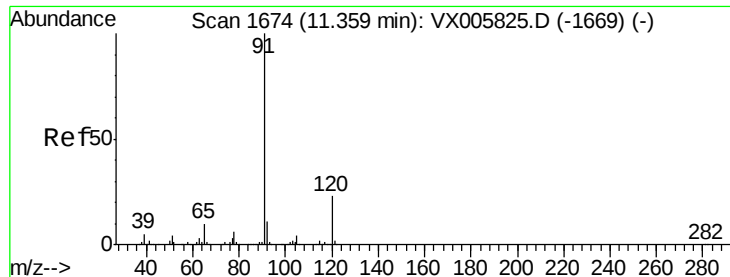
120 26.4 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 64.683 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

Instrument :

MSVOA\_X

ClientSampled :

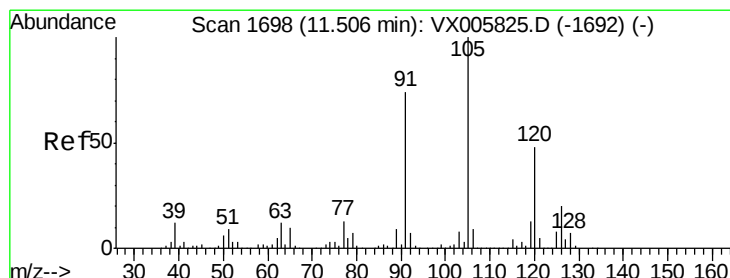
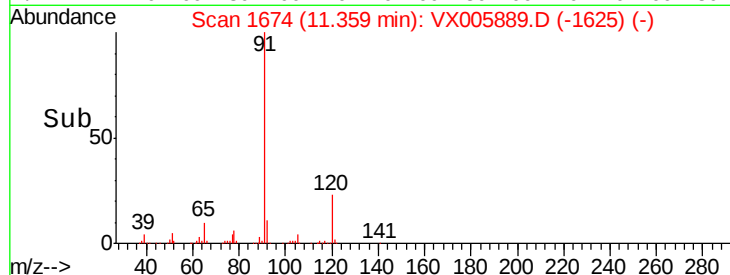
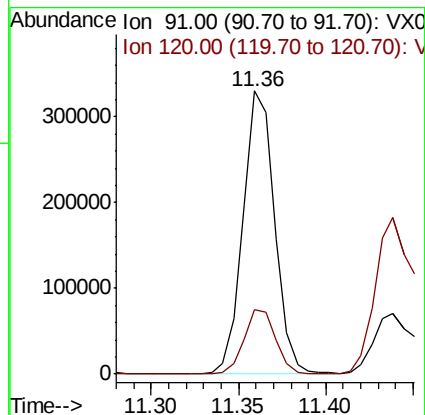
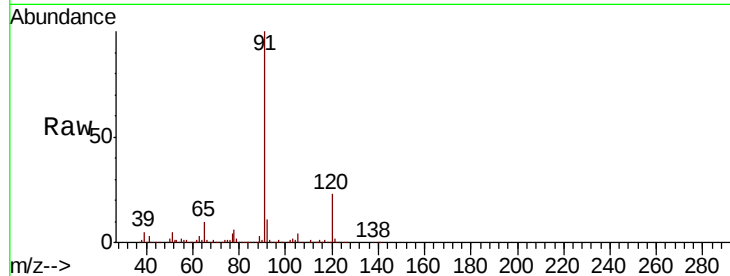
BOTTOM-B

Tot Ion: 91 Resp: 414673

Ion Ratio Lower Upper

91 100

120 22.8 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 170.195 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.01 min

Lab File: VX005889.D

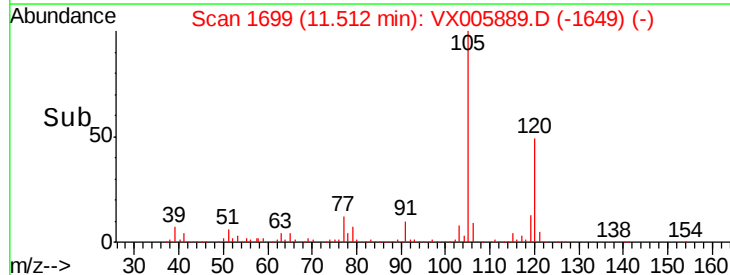
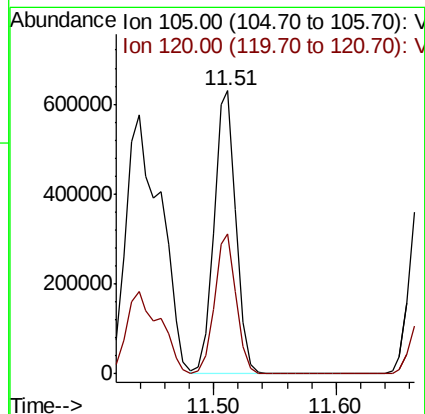
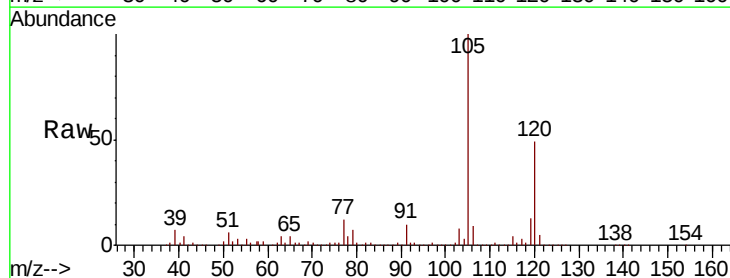
Acq: 10 Nov 2018 04:24

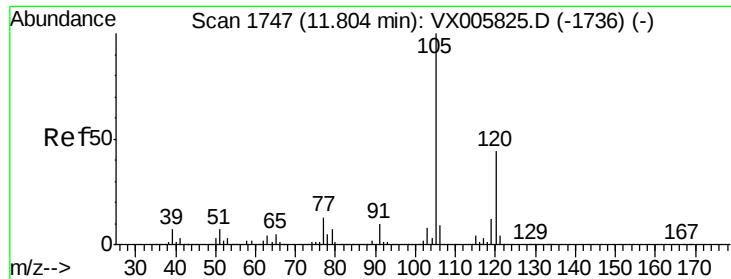
Tgt Ion: 105 Resp: 786745

Ion Ratio Lower Upper

105 100

120 48.8 24.1 72.2





#84

1,2,4-Trimethylbenzene

Concen: 541.312 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX005889.D

Acq: 10 Nov 2018 04:24

Instrument :

MSVOA\_X

ClientSampled :

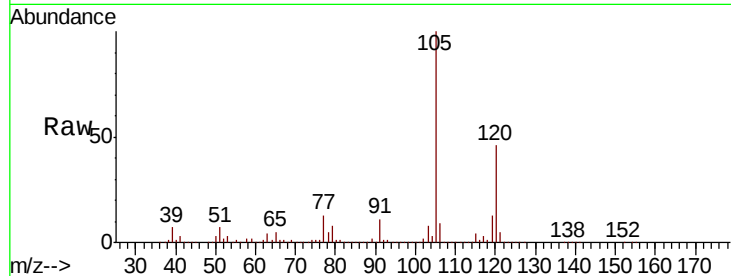
BOTTOM-B

Tot Ion:105 Resp: 2755458

Ion Ratio Lower Upper

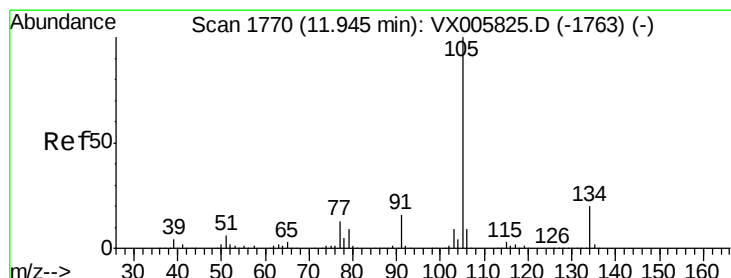
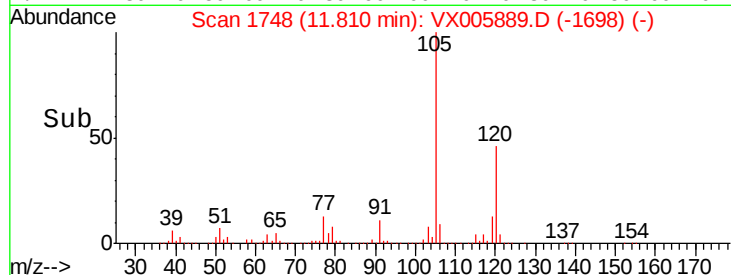
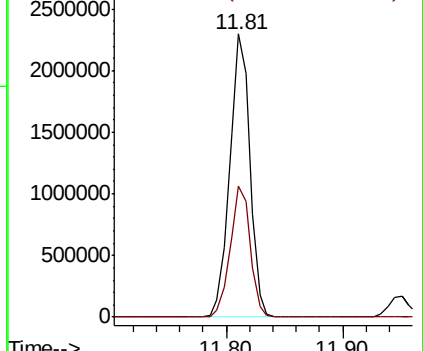
105 100

120 46.1 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 38.373 ug/l

RT: 11.95 min Scan# 1771

Delta R.T. 0.01 min

Lab File: VX005889.D

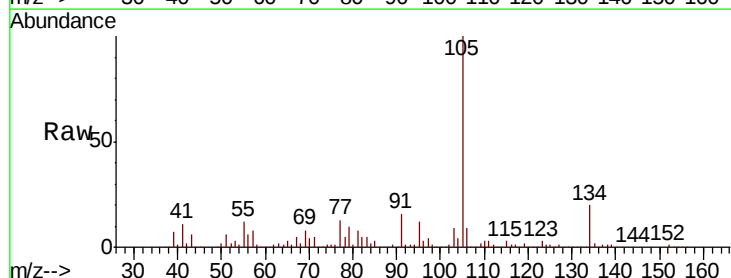
Acq: 10 Nov 2018 04:24

Tgt Ion:105 Resp: 219445

Ion Ratio Lower Upper

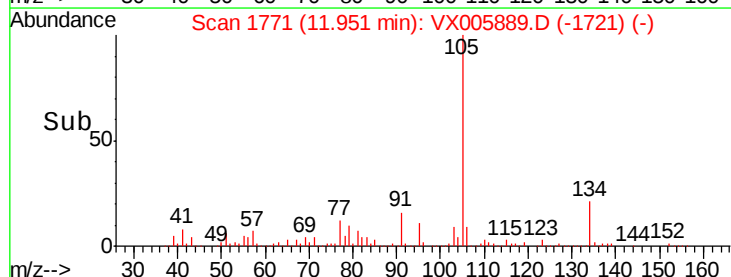
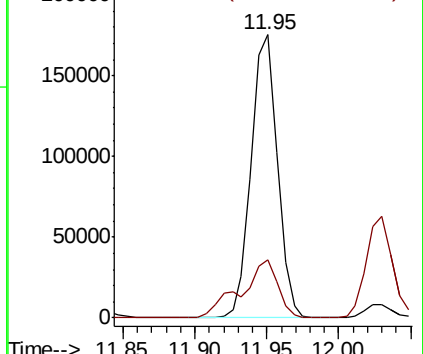
105 100

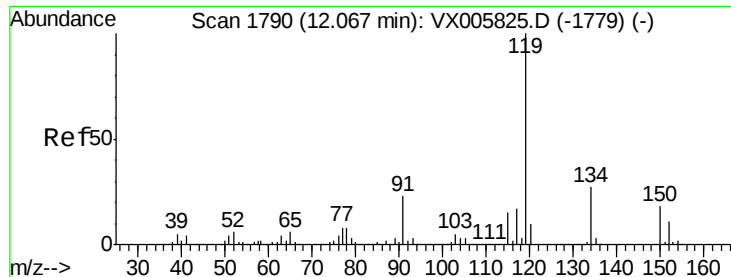
134 29.2 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

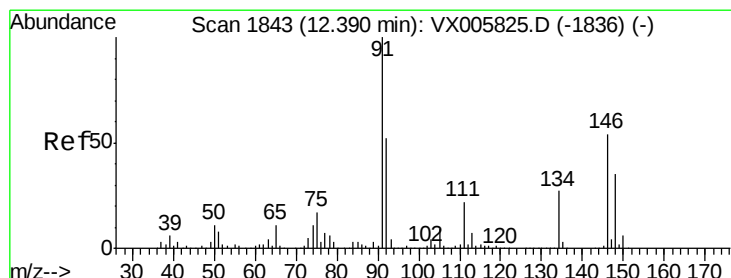
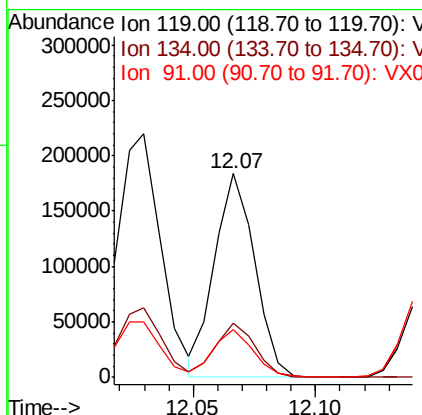
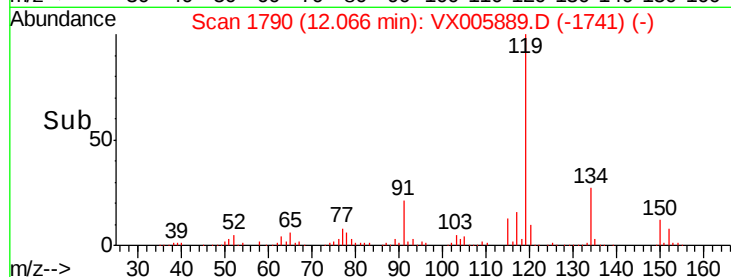
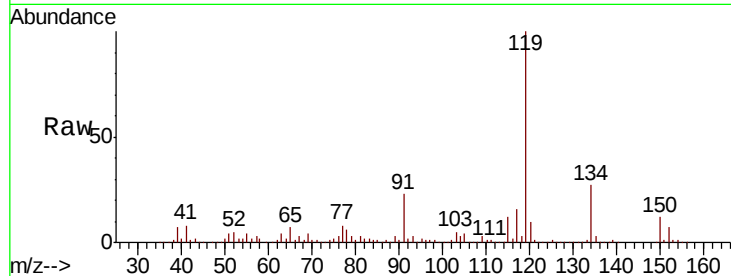




#86  
p-Isopropyltoluene  
Concen: 41.485 ug/l  
RT: 12.07 min Scan# 1790  
Delta R.T. -0.00 min  
Lab File: VX005889.D  
Acq: 10 Nov 2018 04:24

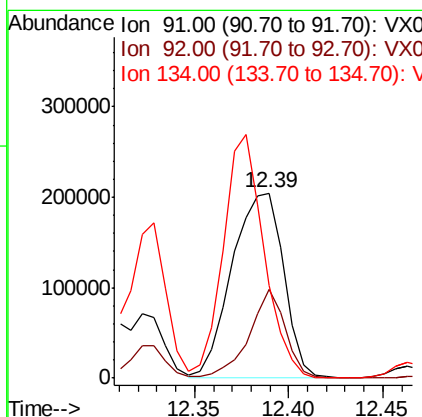
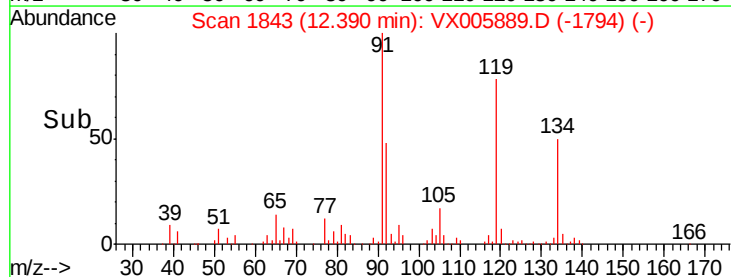
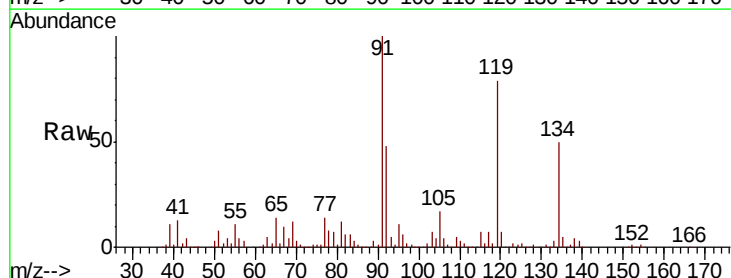
Instrument :  
MSVOA\_X  
ClientSampled :  
BOTTOM-B

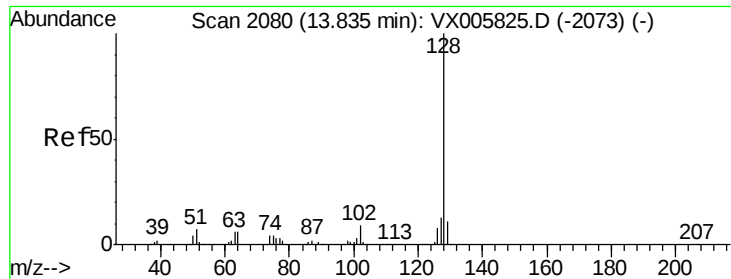
Tot Ion: 119 Resp: 210146  
Ion Ratio Lower Upper  
119 100  
134 26.5 13.0 39.0  
91 22.9 11.4 34.2



#89  
n-Butylbenzene  
Concen: 81.976 ug/l  
RT: 12.39 min Scan# 1843  
Delta R.T. -0.00 min  
Lab File: VX005889.D  
Acq: 10 Nov 2018 04:24

Tgt Ion: 91 Resp: 384857  
Ion Ratio Lower Upper  
91 100  
92 33.8 26.1 78.2  
134 104.6 13.1 39.3#





#95  
 Naphthalene  
 Concen: 479.010 ug/l  
 RT: 13.84 min Scan# 2081  
 Delta R.T. 0.01 min  
 Lab File: VX005889.D  
 Acq: 10 Nov 2018 04:24

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BOTTOM-B

Tot Ion:128 Resp: 3311666  
 Ion Ratio Lower Upper  
 128 100  
 127 13.5 10.4 15.6  
 129 12.0 8.7 13.1

