

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071219\  
 Data File : VX010866.D  
 Acq On : 13 Jul 2019 03:19  
 Operator : JC/SP  
 Sample : K3791-13  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0604

Quant Time: Jul 15 09:08:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

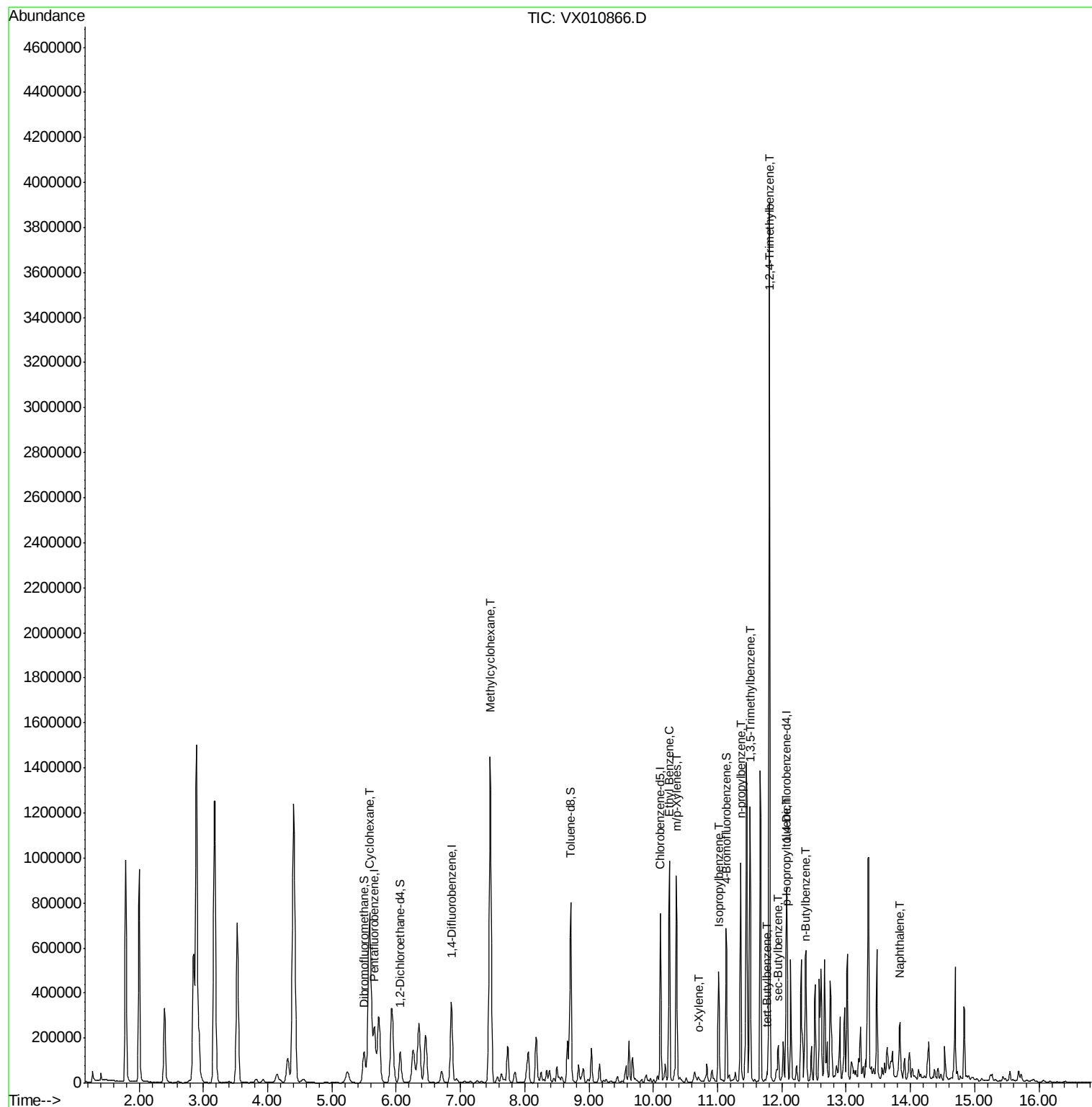
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 241489   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 379057   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 345538   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 175828   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 124725   | 55.09   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 110.18% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 115815   | 49.94   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.88%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 457152   | 51.52   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 103.04% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 164979   | 51.50   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 103.00% |          |
| Target Compounds            |       |      |          |         |         |          |
|                             |       |      |          |         | Qvalue  |          |
| 31) Cyclohexane             | 5.58  | 56   | 534300   | 163.369 | ug/l    | 96       |
| 39) Methylcyclohexane       | 7.46  | 83   | 672493   | 169.845 | ug/l    | 96       |
| 67) Ethyl Benzene           | 10.25 | 91   | 541376   | 45.713  | ug/l    | 98       |
| 68) m/p-Xylenes             | 10.36 | 106  | 197216   | 42.977  | ug/l    | 98       |
| 69) o-Xylene                | 10.69 | 106  | 4424     | 0.980   | ug/l    | 91       |
| 73) Isopropylbenzene        | 11.02 | 105  | 257841   | 21.633  | ug/l    | 98       |
| 78) n-propylbenzene         | 11.36 | 91   | 582841   | 44.493  | ug/l    | 98       |
| 80) 1,3,5-Trimethylbenzene  | 11.51 | 105  | 515875   | 52.502  | ug/l    | 98       |
| 83) tert-Butylbenzene       | 11.77 | 119  | 7294     | 0.740   | ug/l #  | 45       |
| 84) 1,2,4-Trimethylbenzene  | 11.80 | 105  | 1678739  | 170.054 | ug/l    | 100      |
| 85) sec-Butylbenzene        | 11.94 | 105  | 80152    | 6.922   | ug/l    | 85       |
| 86) p-Isopropyltoluene      | 12.06 | 119  | 75749    | 7.072   | ug/l    | 99       |
| 89) n-Butylbenzene          | 12.38 | 91   | 90616    | 9.956   | ug/l #  | 31       |
| 95) Naphthalene             | 13.83 | 128  | 157271   | 12.781  | ug/l    | 98       |

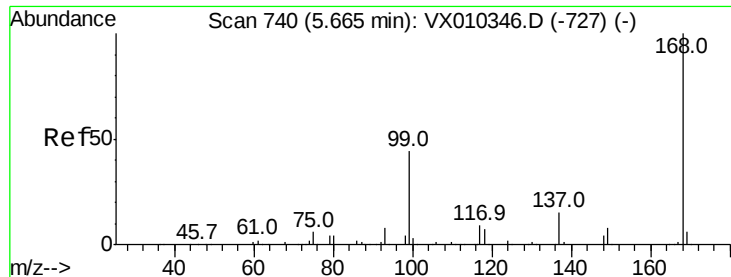
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071219\  
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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0604

Quant Time: Jul 15 09:08:23 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

Instrument :

MSVOA\_X

ClientSampled :

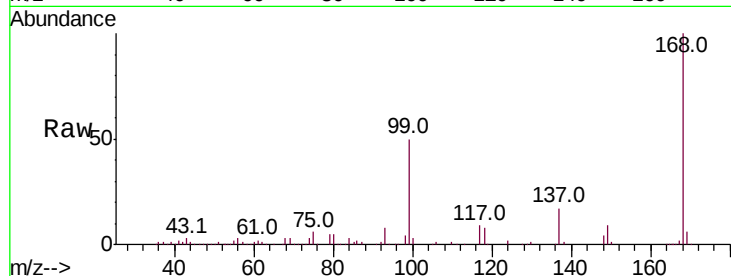
FL-0604

Tot Ion:168 Resp: 241489

Ion Ratio Lower Upper

168 100

99 49.8 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

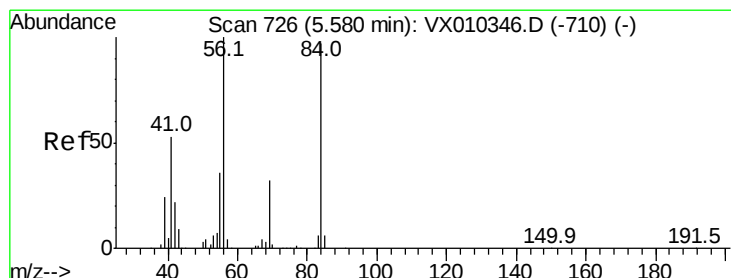
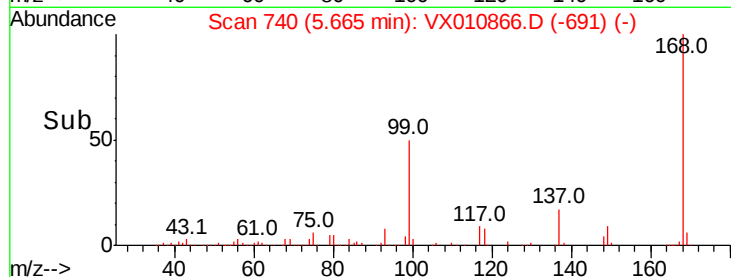
40000

20000

0

5.60 5.70 5.80

Time-->



#31

Cyclohexane

Concen: 163.369 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

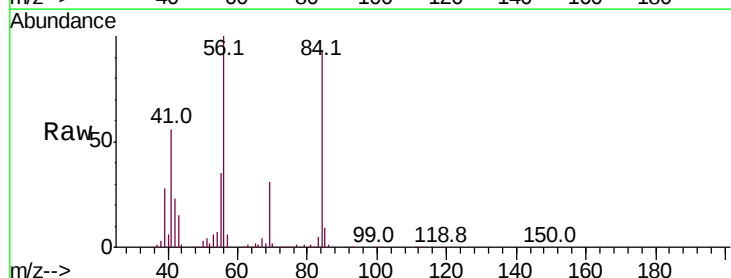
Tgt Ion: 56 Resp: 534300

Ion Ratio Lower Upper

56 100

69 31.2 25.9 38.9

84 93.0 78.0 117.0



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

5.58

200000

150000

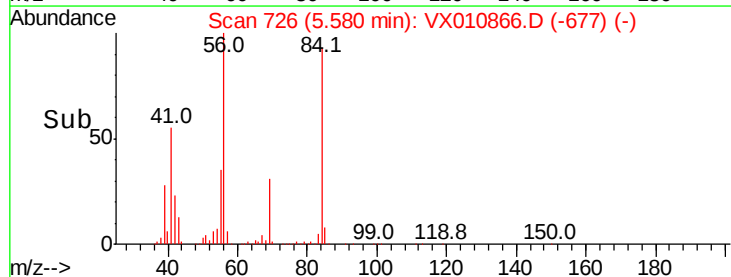
100000

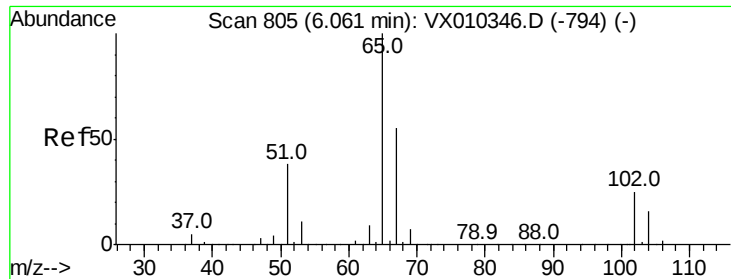
50000

0

5.50 5.60 5.70

Time-->





#33

1,2-Dichloroethane-d4

Concen: 55.086 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

Instrument :

MSVOA\_X

ClientSampled :

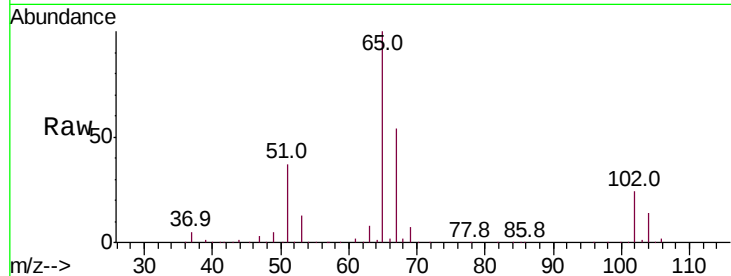
FL-0604

Tot Ion: 65 Resp: 124725

Ion Ratio Lower Upper

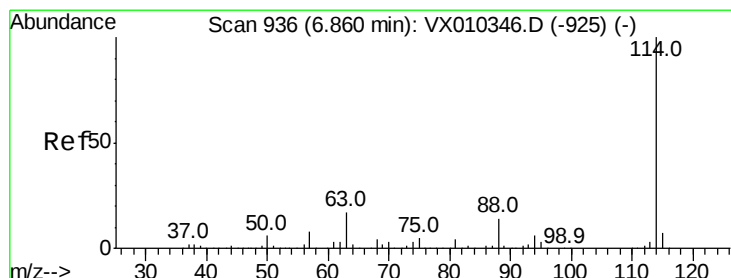
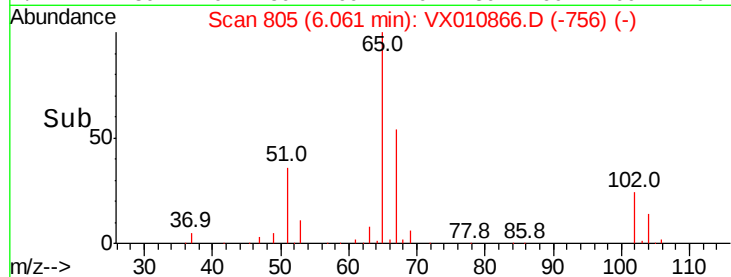
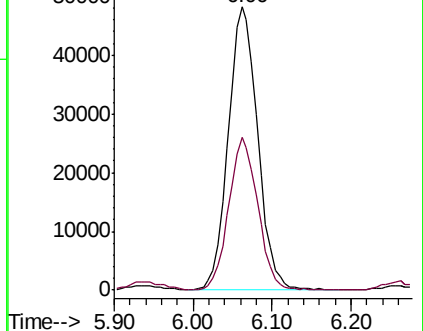
65 100

67 53.0 0.0 110.2



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: VX010866.D

Acq: 13 Jul 2019 03:19

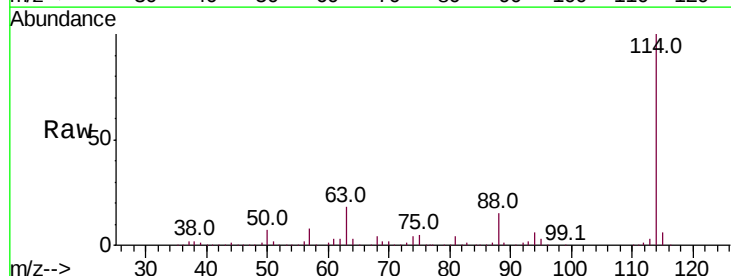
Tgt Ion: 114 Resp: 379057

Ion Ratio Lower Upper

114 100

63 18.2 0.0 33.8

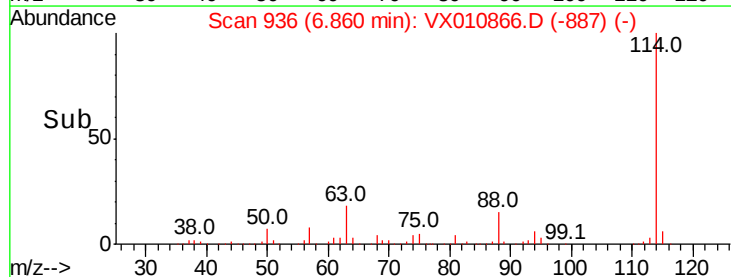
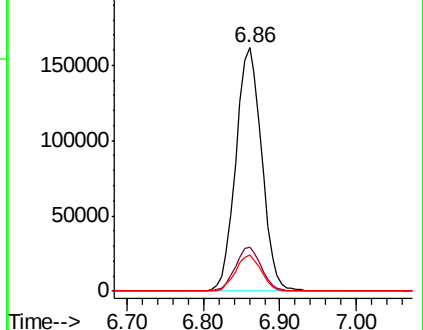
88 14.9 0.0 27.6

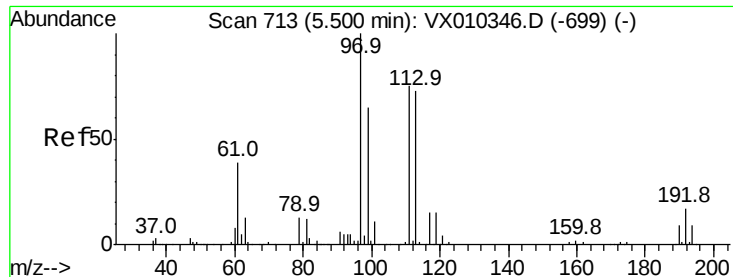


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.937 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

Instrument :

MSVOA\_X

ClientSampleId :

FL-0604

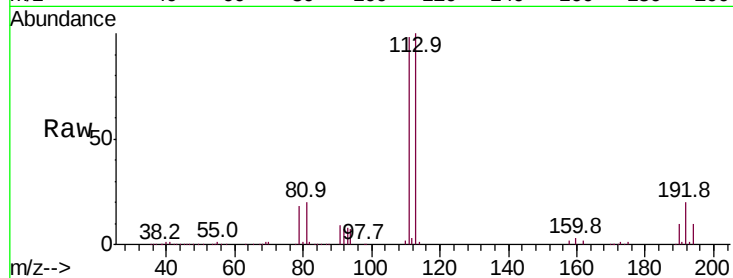
Tot Ion:113 Resp: 115815

Ion Ratio Lower Upper

113 100

111 100.2 81.2 121.8

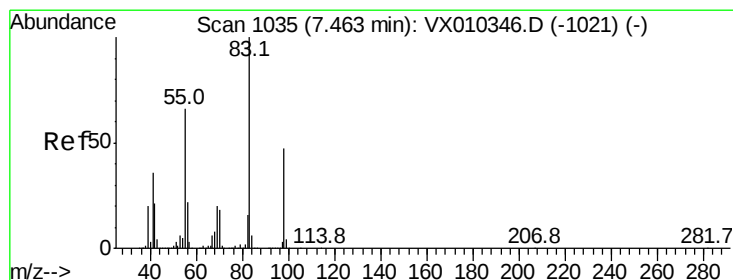
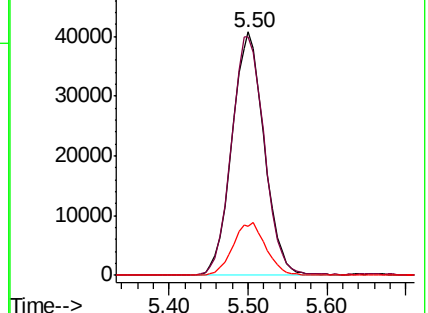
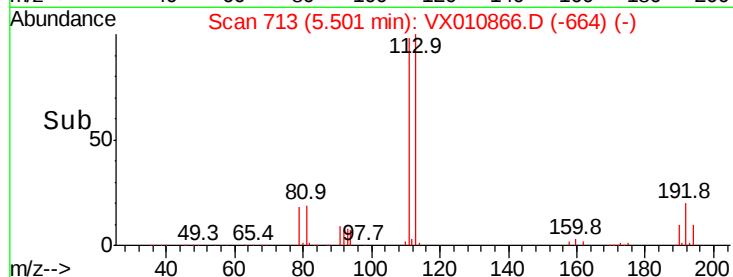
192 21.9 18.6 27.8



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: 169.845 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

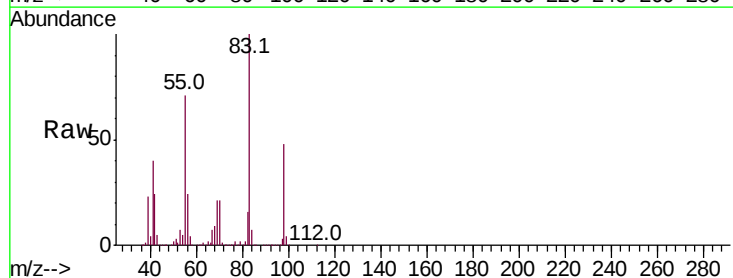
Tgt Ion: 83 Resp: 672493

Ion Ratio Lower Upper

83 100

55 71.1 53.0 79.6

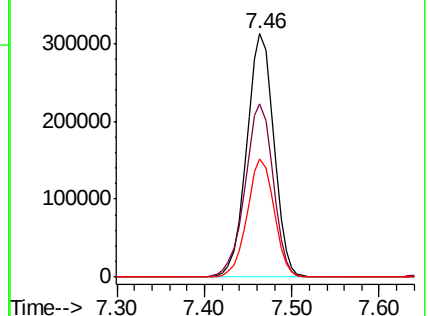
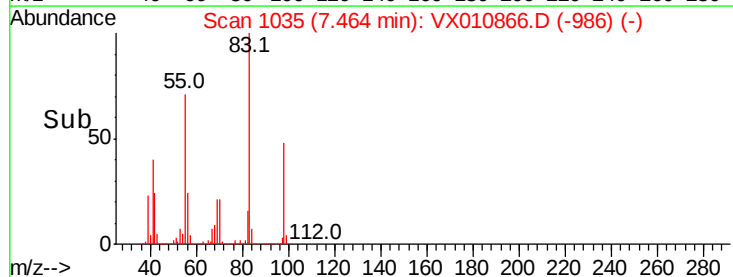
98 48.4 37.8 56.8

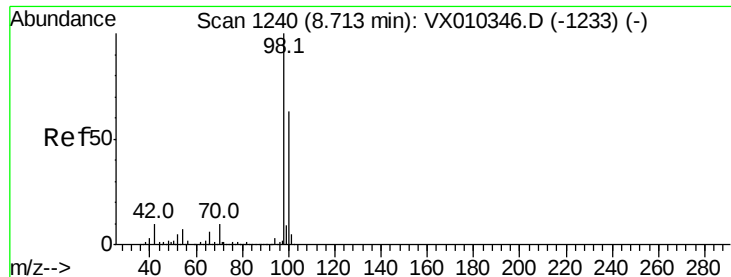


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 51.523 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

Instrument :

MSVOA\_X

ClientSampleId :

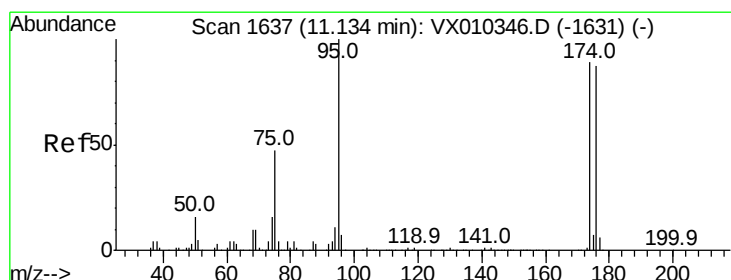
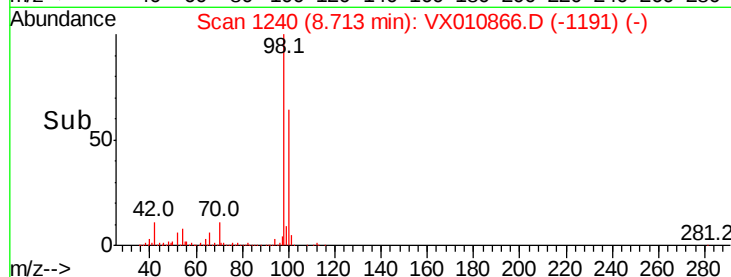
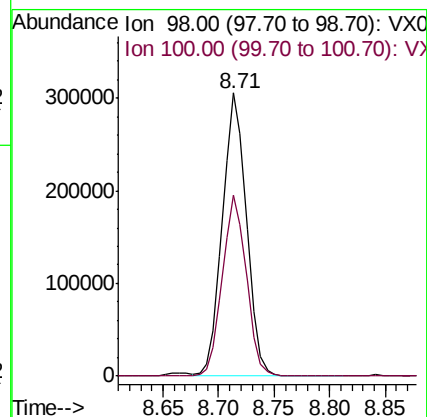
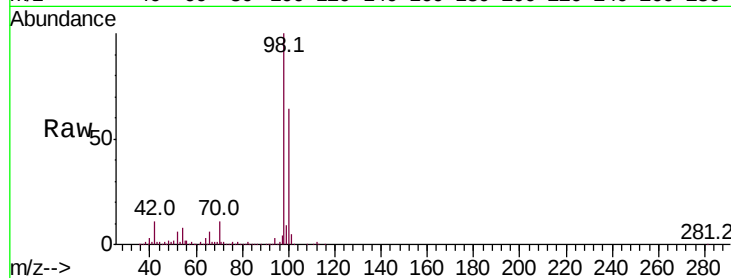
FL-0604

Tot Ion: 98 Resp: 457152

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 51.502 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

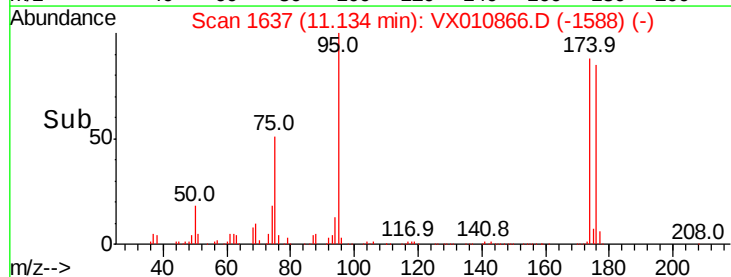
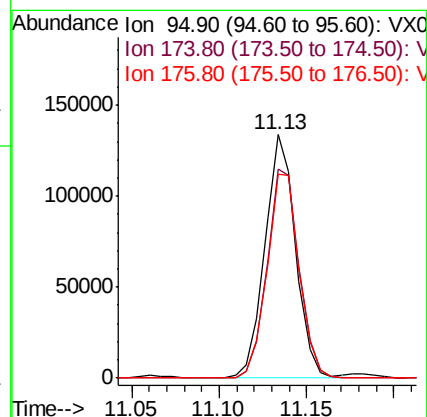
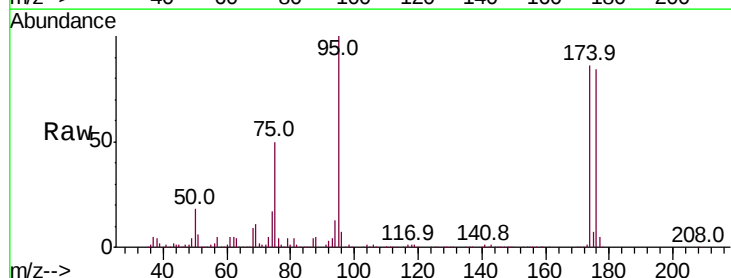
Tgt Ion: 95 Resp: 164979

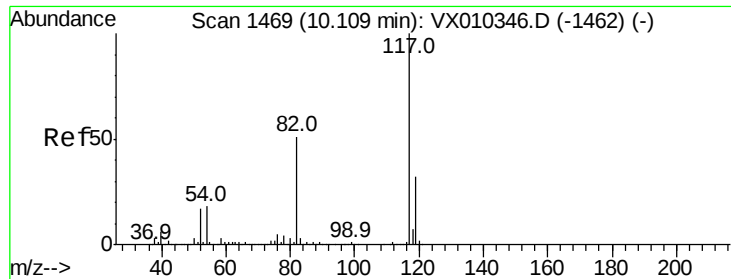
Ion Ratio Lower Upper

95 100

174 89.7 0.0 187.6

176 88.2 0.0 184.0

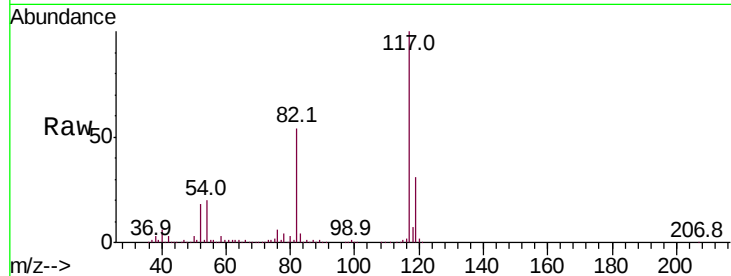




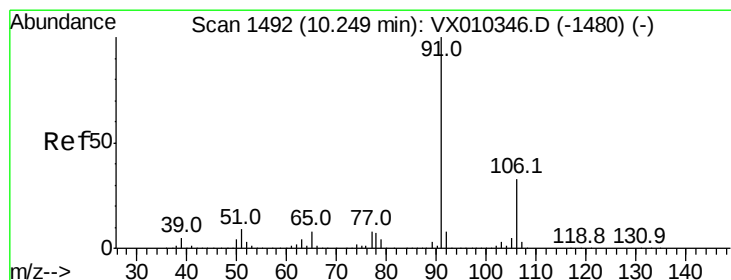
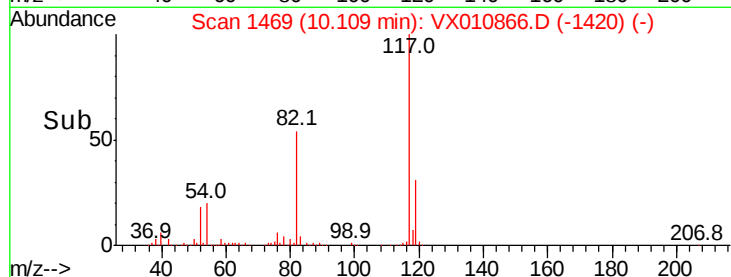
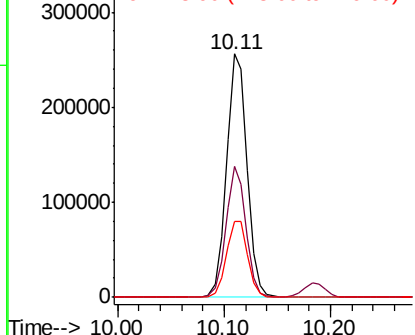
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0604

Tot Ion:117 Resp: 345538  
Ion Ratio Lower Upper  
117 100  
82 53.5 41.2 61.8  
119 31.0 25.5 38.3

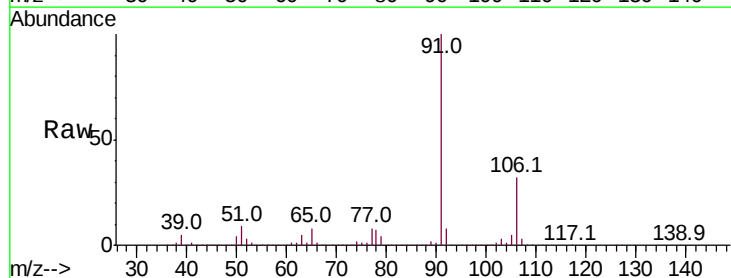


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

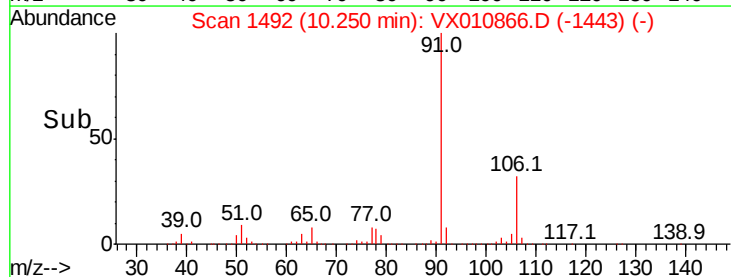
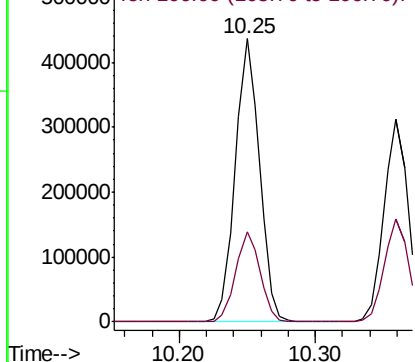


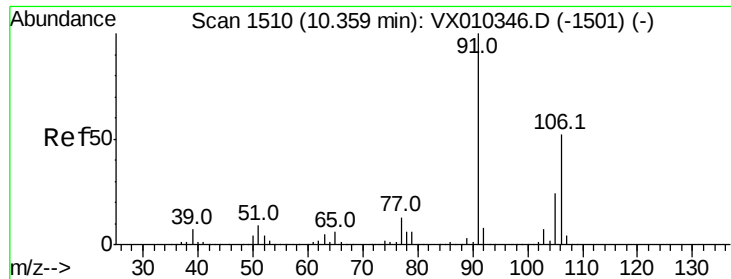
#67  
Ethyl Benzene  
Concen: 45.713 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Tgt Ion: 91 Resp: 541376  
Ion Ratio Lower Upper  
91 100  
106 31.8 26.2 39.2



Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 106.00 (105.70 to 106.70): V

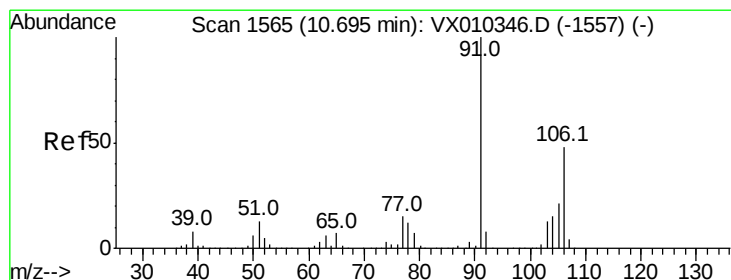
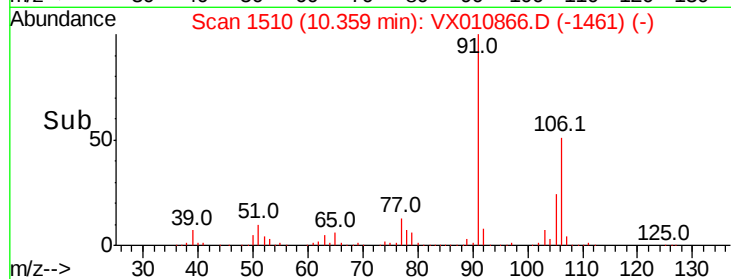
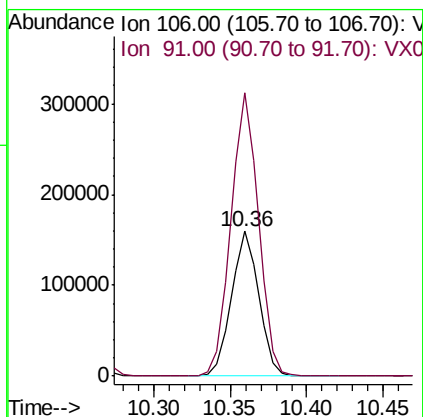
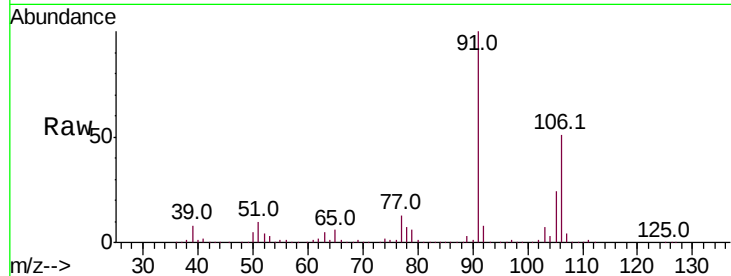




#68  
m/p-Xylenes  
Concen: 42.977 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

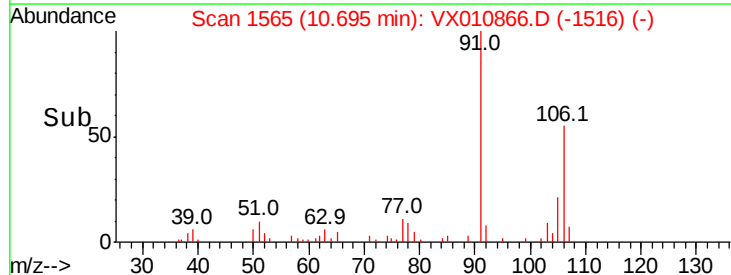
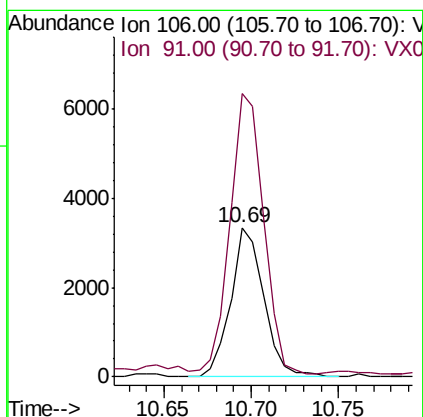
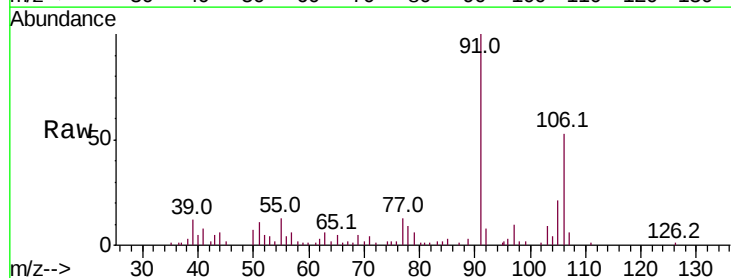
Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0604

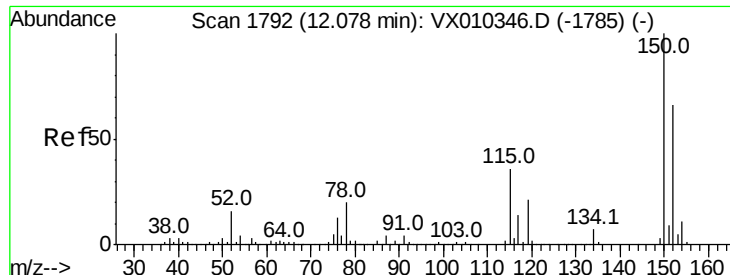
Tot Ion:106 Resp: 197216  
Ion Ratio Lower Upper  
106 100  
91 196.6 155.3 232.9



#69  
o-Xylene  
Concen: 0.980 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Tgt Ion:106 Resp: 4424  
Ion Ratio Lower Upper  
106 100  
91 191.3 102.7 308.1



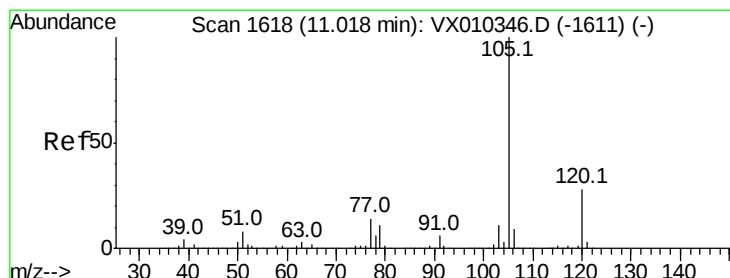
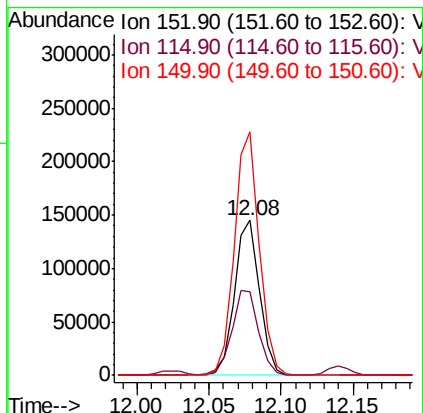
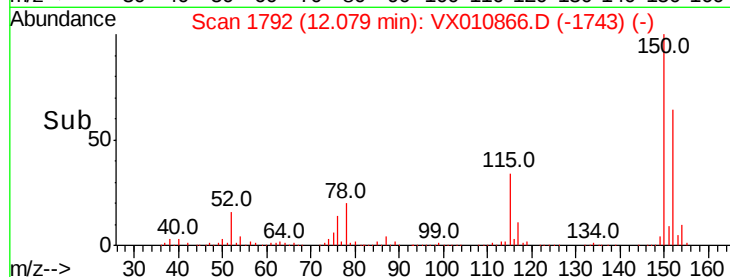
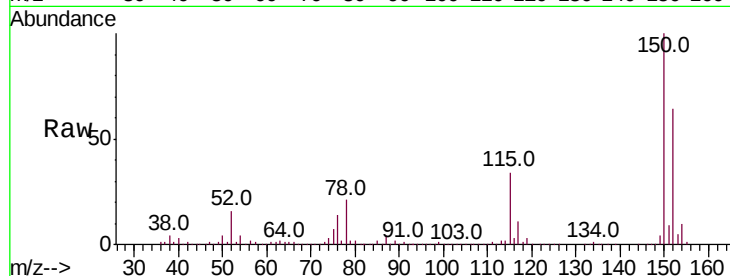


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0604

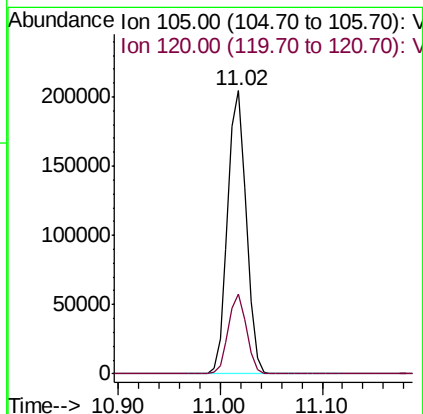
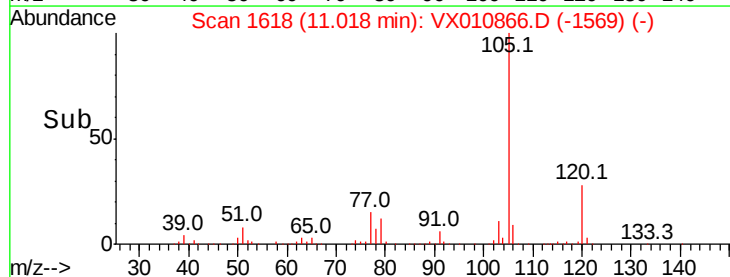
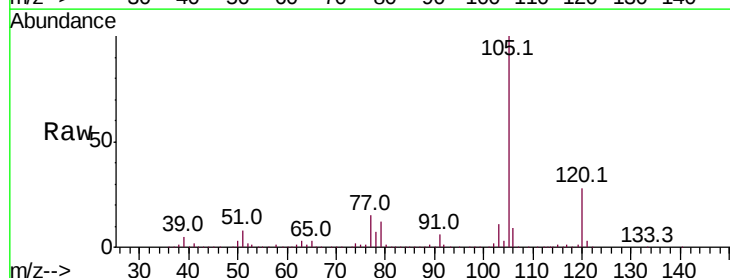
Tot Ion:152 Resp: 175828  
Ion Ratio Lower Upper  
152 100  
115 58.7 38.6 115.7  
150 156.6 0.0 347.4

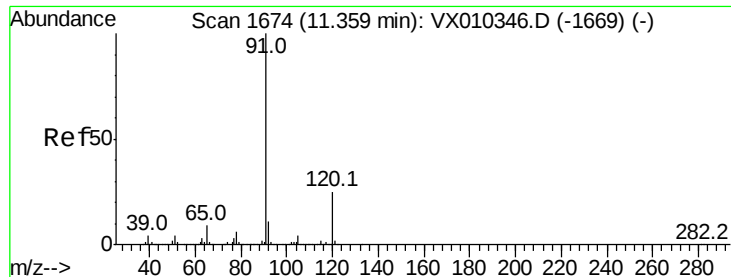


#73

Isopropylbenzene  
Concen: 21.633 ug/l  
RT: 11.02 min Scan# 1618  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Tgt Ion:105 Resp: 257841  
Ion Ratio Lower Upper  
105 100  
120 27.5 14.1 42.4

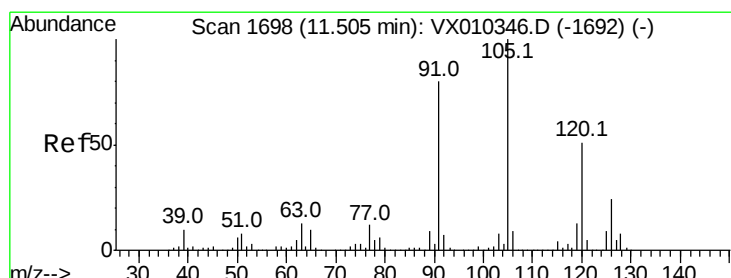
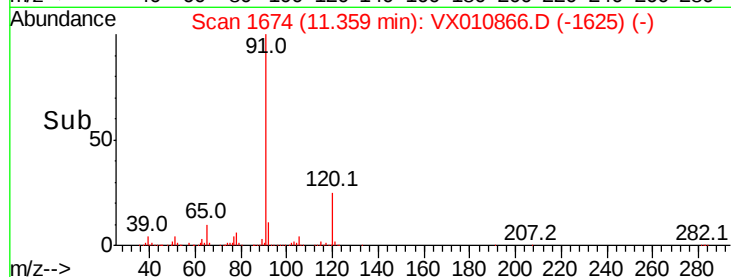
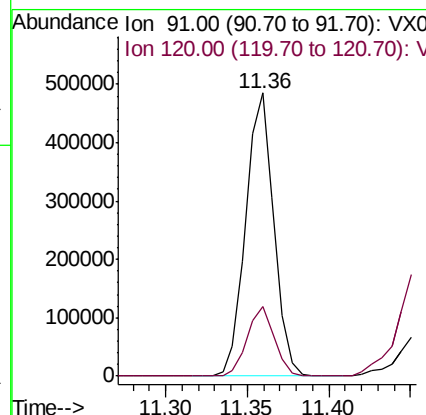
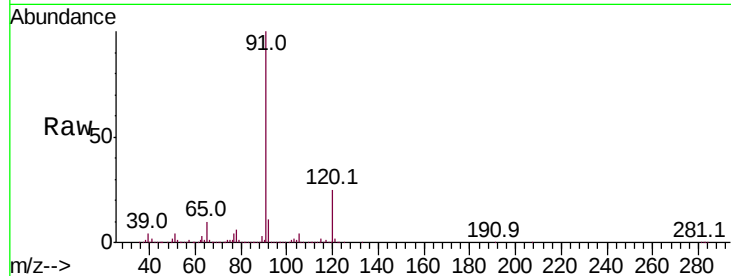




#78  
 n-propylbenzene  
 Concen: 44.493 ug/l  
 RT: 11.36 min Scan# 1674  
 Delta R.T. 0.00 min  
 Lab File: VX010866.D  
 Acq: 13 Jul 2019 03:19

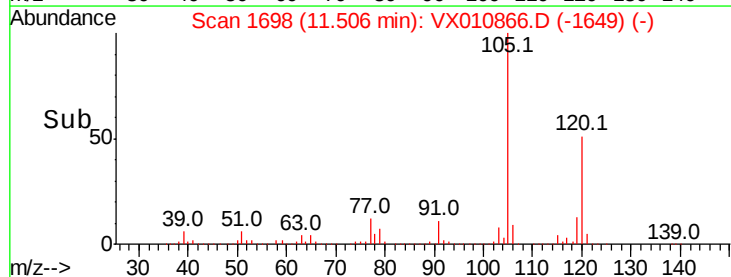
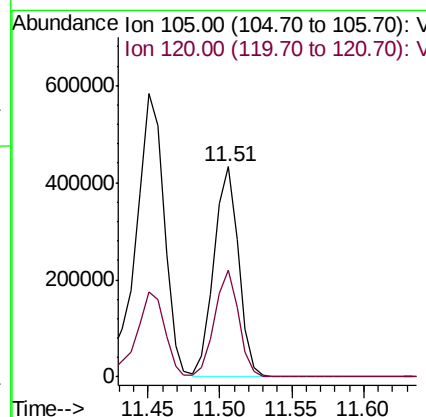
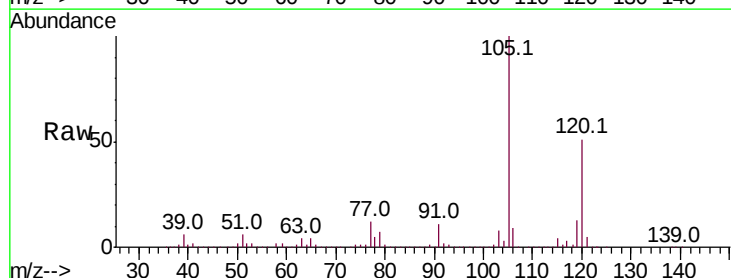
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0604

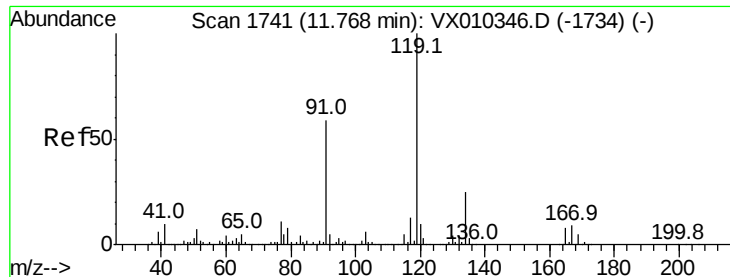
Tot Ion: 91 Resp: 582841  
 Ion Ratio Lower Upper  
 91 100  
 120 23.9 12.4 37.4



#80  
 1,3,5-Trimethylbenzene  
 Concen: 52.502 ug/l  
 RT: 11.51 min Scan# 1698  
 Delta R.T. 0.00 min  
 Lab File: VX010866.D  
 Acq: 13 Jul 2019 03:19

Tgt Ion: 105 Resp: 515875  
 Ion Ratio Lower Upper  
 105 100  
 120 49.4 25.2 75.6

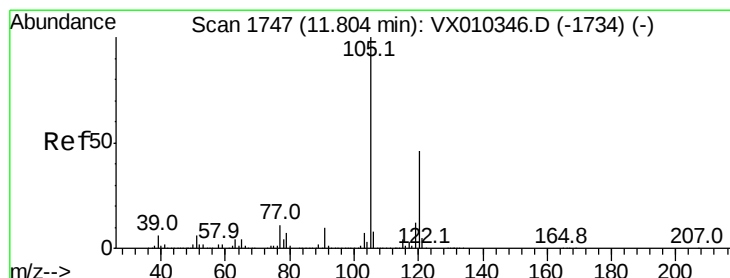
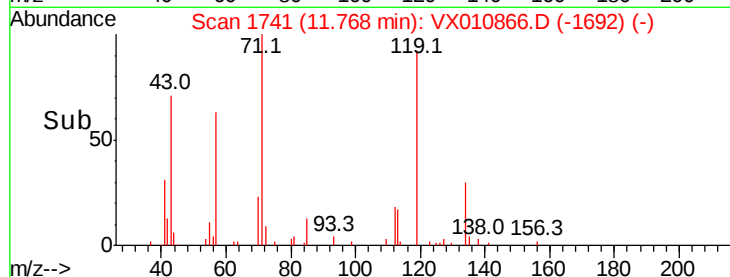
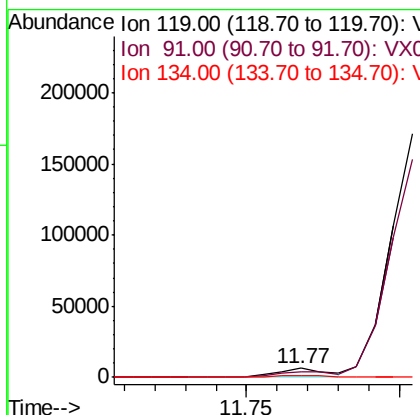
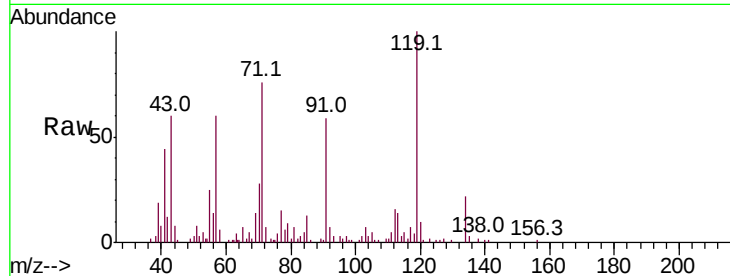




#83  
tert-Butylbenzene  
Concen: 0.740 ug/l  
RT: 11.77 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

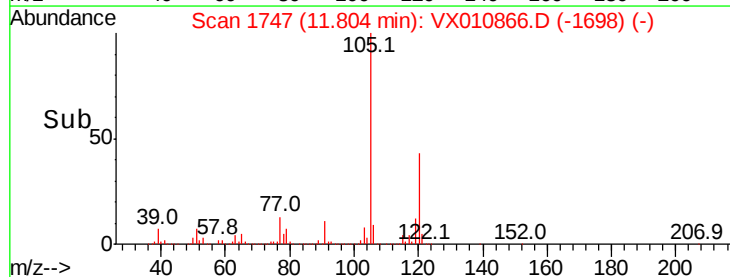
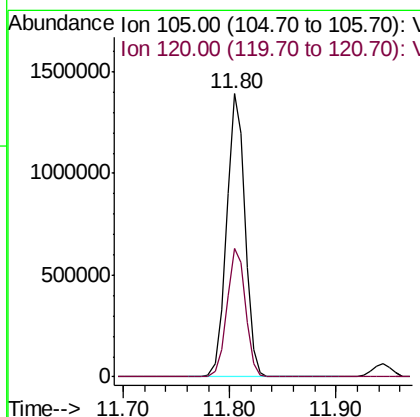
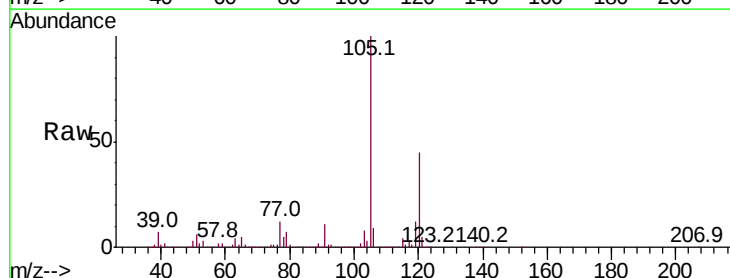
Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0604

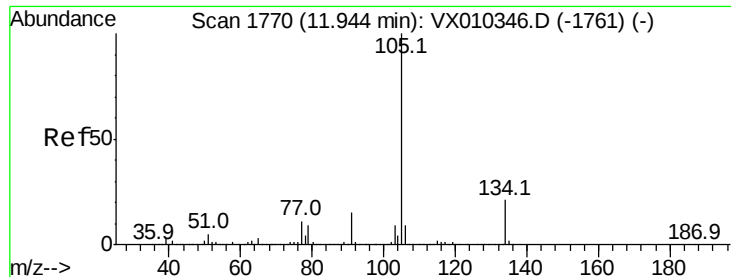
Tot Ion:119 Resp: 7294  
Ion Ratio Lower Upper  
119 100  
91 0.0 27.6 82.7#  
134 26.1 11.8 35.4



#84  
1,2,4-Trimethylbenzene  
Concen: 170.054 ug/l  
RT: 11.80 min Scan# 1747  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Tgt Ion:105 Resp: 1678739  
Ion Ratio Lower Upper  
105 100  
120 46.0 23.1 69.2





#85

sec-Butylbenzene

Concen: 6.922 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

Instrument :

MSVOA\_X

ClientSampleId :

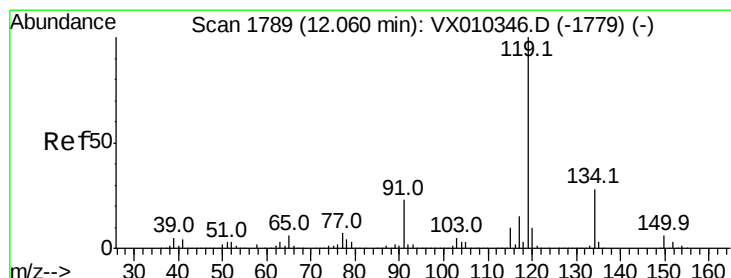
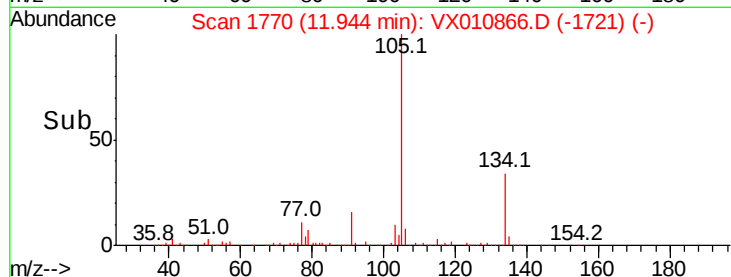
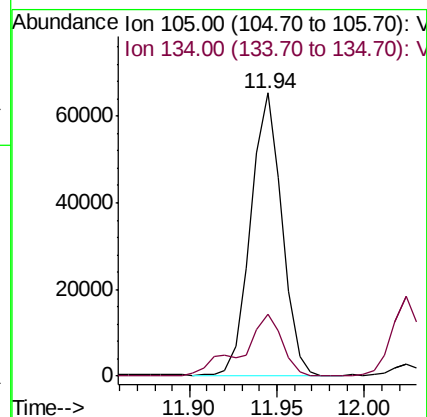
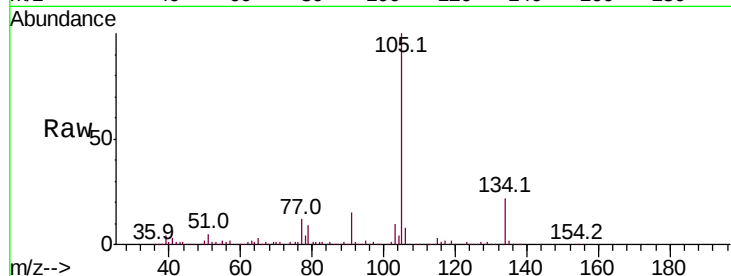
FL-0604

Tot Ion:105 Resp: 80152

Ion Ratio Lower Upper

105 100

134 28.3 10.7 31.9



#86

p-Isopropyltoluene

Concen: 7.072 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX010866.D

Acq: 13 Jul 2019 03:19

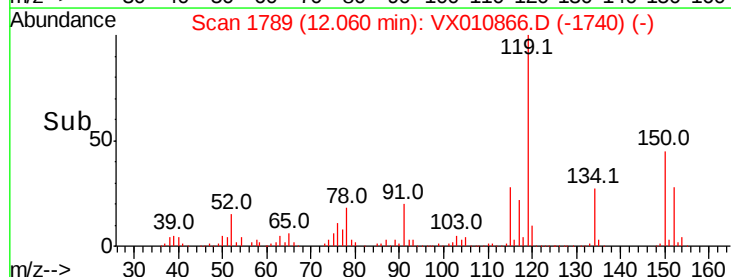
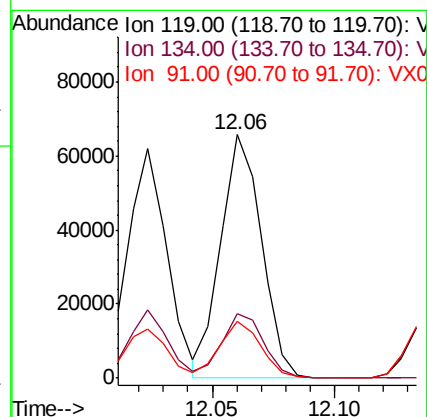
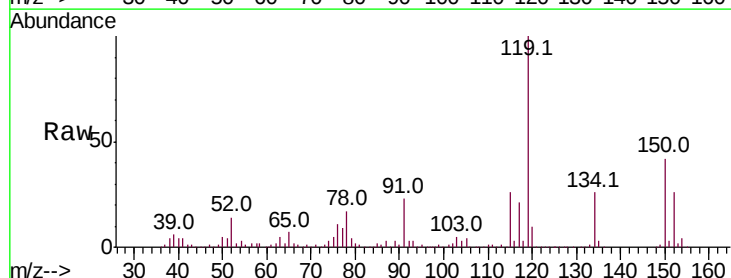
Tgt Ion:119 Resp: 75749

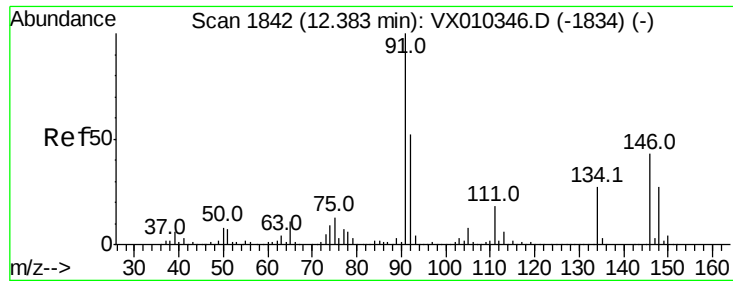
Ion Ratio Lower Upper

119 100

134 27.5 13.7 41.1

91 23.5 11.3 33.8

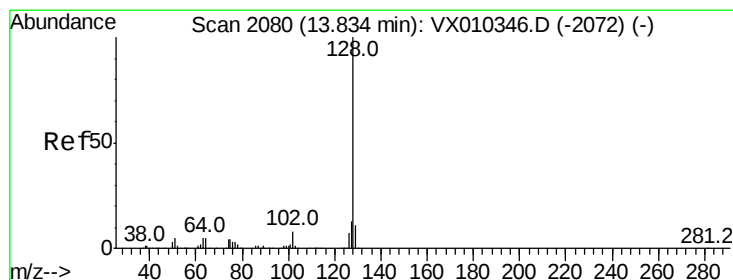
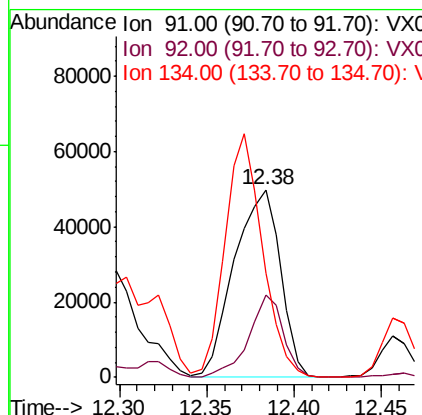
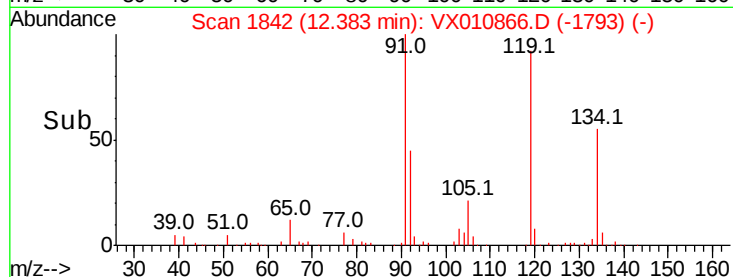
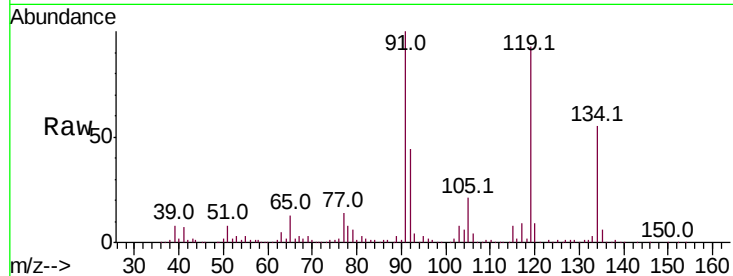




#89  
n-Butylbenzene  
Concen: 9.956 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0604

Tot Ion: 91 Resp: 90616  
Ion Ratio Lower Upper  
91 100  
92 32.9 26.2 78.5  
134 105.8 14.1 42.4#



#95  
Naphthalene  
Concen: 12.781 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX010866.D  
Acq: 13 Jul 2019 03:19

Tgt Ion: 128 Resp: 157271  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.2 15.4  
129 12.6 8.9 13.3

