

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070919\  
 Data File : VX010754.D  
 Acq On : 09 Jul 2019 16:34  
 Operator : JC/SP  
 Sample : K3664-04DL 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0588DL

Quant Time: Jul 10 04:00:40 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      | 5.66  | 168  | 202340   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 315320   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 298054   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 154961   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 100660   | 53.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.12% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 94462    | 48.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.92%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 378601   | 51.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.58% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 138579   | 52.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.02% |          |

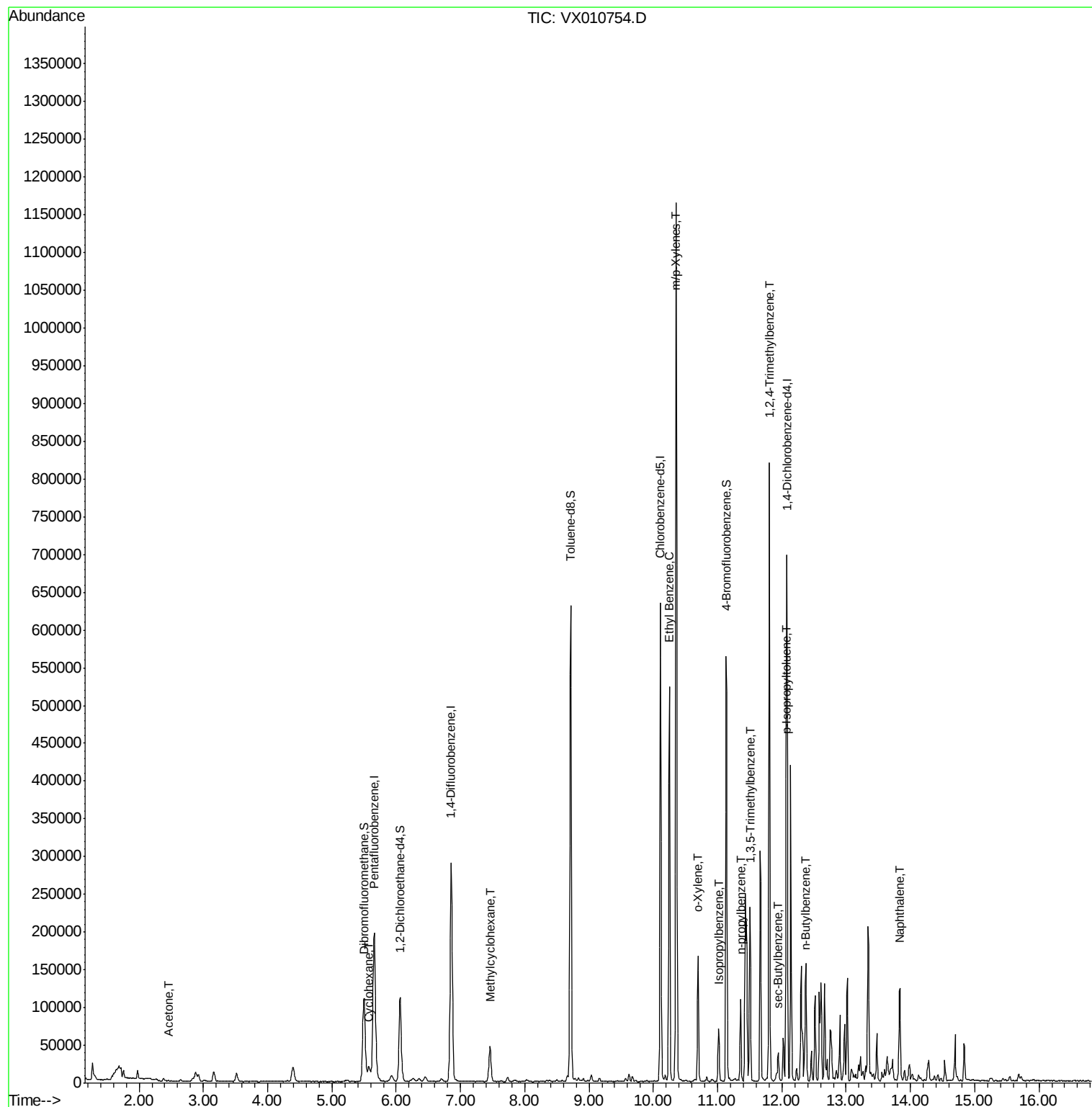
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                | 2.45  | 43   | 1290     | 1.357  | ug/l   | 99     |
| 31) Cyclohexane            | 5.58  | 56   | 13128    | 4.791  | ug/l   | 94     |
| 39) Methylcyclohexane      | 7.46  | 83   | 22538    | 6.843  | ug/l   | 95     |
| 67) Ethyl Benzene          | 10.25 | 91   | 300362   | 29.403 | ug/l   | 100    |
| 68) m/p-Xylenes            | 10.36 | 106  | 289700   | 73.189 | ug/l   | 100    |
| 69) o-Xylene               | 10.69 | 106  | 37082    | 9.526  | ug/l   | 97     |
| 73) Isopropylbenzene       | 11.02 | 105  | 37505    | 3.570  | ug/l   | 97     |
| 78) n-propylbenzene        | 11.36 | 91   | 68932    | 5.971  | ug/l   | 100    |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 98209    | 11.341 | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105  | 355626   | 40.875 | ug/l   | 98     |
| 85) sec-Butylbenzene       | 11.94 | 105  | 19554    | 1.916  | ug/l   | 88     |
| 86) p-Isopropyltoluene     | 12.06 | 119  | 19076    | 2.021  | ug/l   | 96     |
| 89) n-Butylbenzene         | 12.38 | 91   | 22180    | 2.765  | ug/l # | 25     |
| 95) Naphthalene            | 13.83 | 128  | 82113    | 7.572  | ug/l   | 98     |

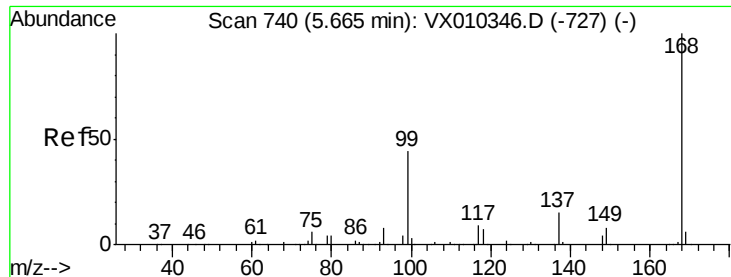
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010754.D

Acq: 09 Jul 2019 16:34

Instrument :

MSVOA\_X

ClientSampleId :

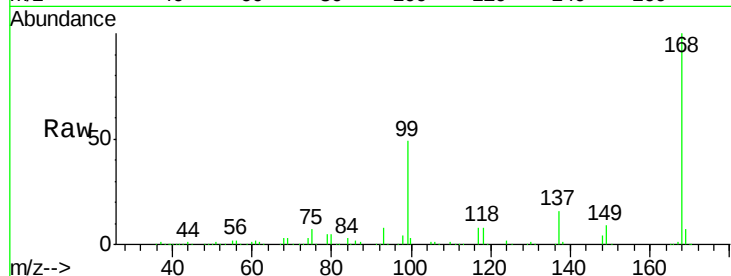
FL-0588DL

Tot Ion:168 Resp: 202340

Ion Ratio Lower Upper

168 100

99 48.8 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

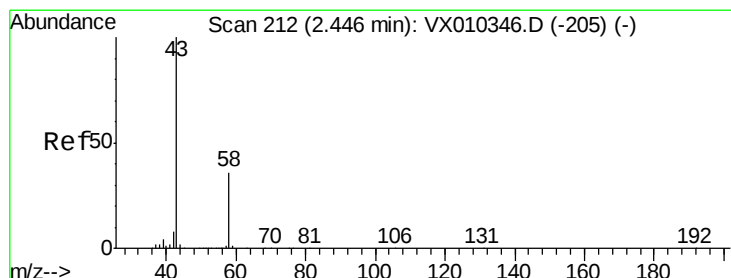
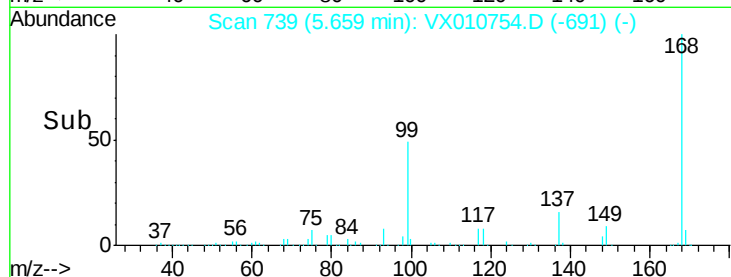
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#16

Acetone

Concen: 1.357 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX010754.D

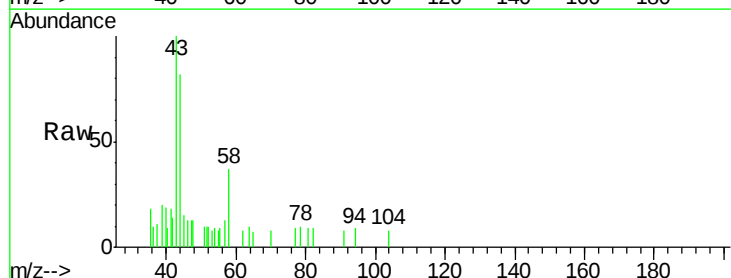
Acq: 09 Jul 2019 16:34

Tgt Ion: 43 Resp: 1290

Ion Ratio Lower Upper

43 100

58 36.6 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

800

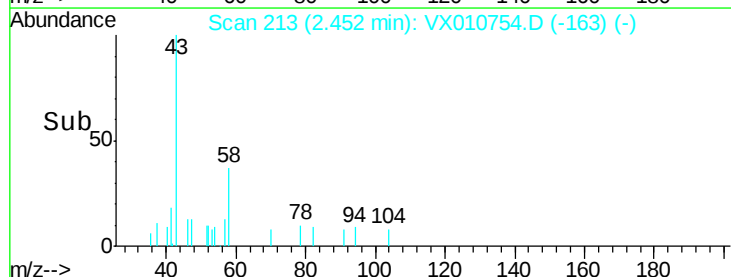
600

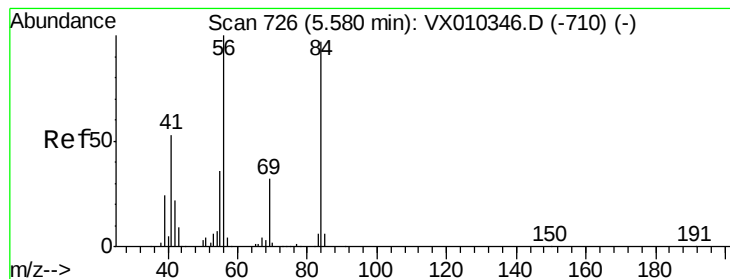
400

200

0

Time--> 2.40 2.45 2.50





#31

Cyclohexane

Concen: 4.791 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX010754.D

Acq: 09 Jul 2019 16:34

Instrument :

MSVOA\_X

ClientSampled :

FL-0588DL

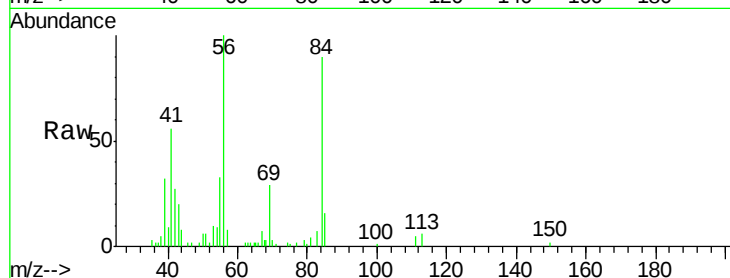
Tot Ion: 56 Resp: 13128

Ion Ratio Lower Upper

56 100

69 29.5 25.9 38.9

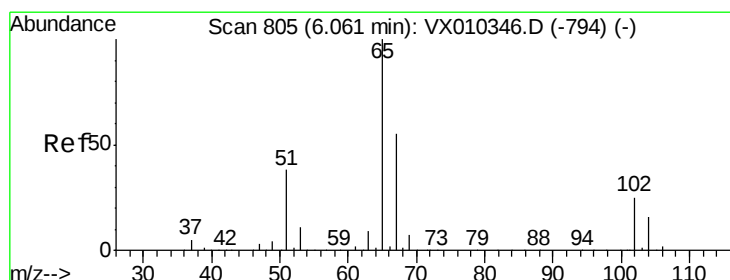
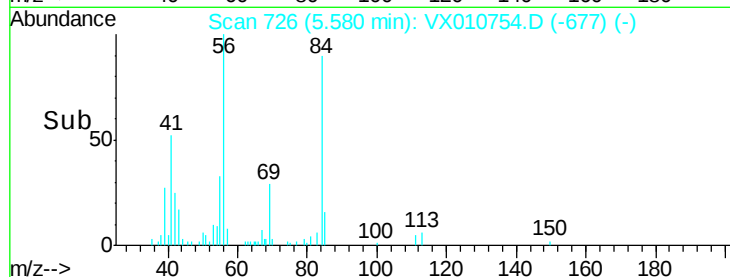
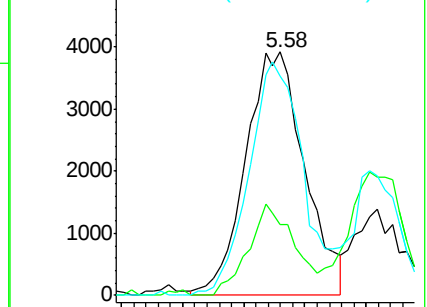
84 91.6 78.0 117.0



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



#33

1,2-Dichloroethane-d4

Concen: 53.059 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010754.D

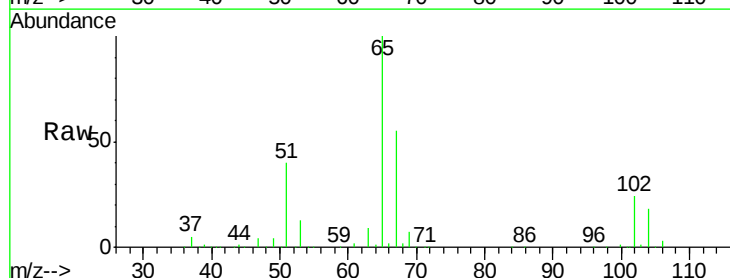
Acq: 09 Jul 2019 16:34

Tgt Ion: 65 Resp: 100660

Ion Ratio Lower Upper

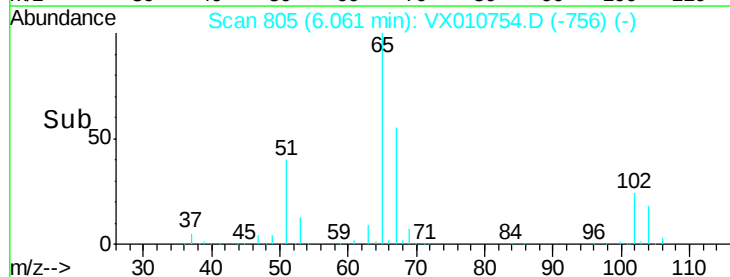
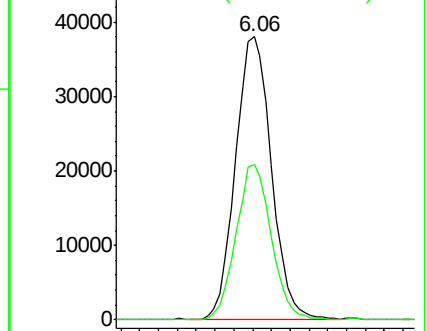
65 100

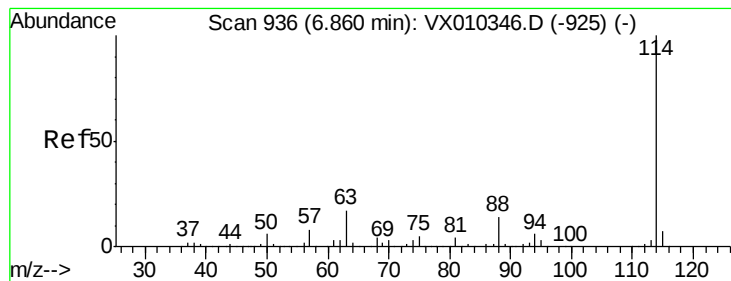
67 54.4 0.0 110.2



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: VX010754.D

Acq: 09 Jul 2019 16:34

Instrument :

MSVOA\_X

ClientSampleId :

FL-0588DL

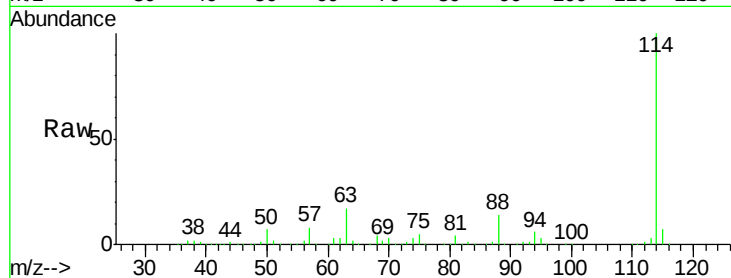
Tot Ion:114 Resp: 315320

Ion Ratio Lower Upper

114 100

63 16.8 0.0 33.8

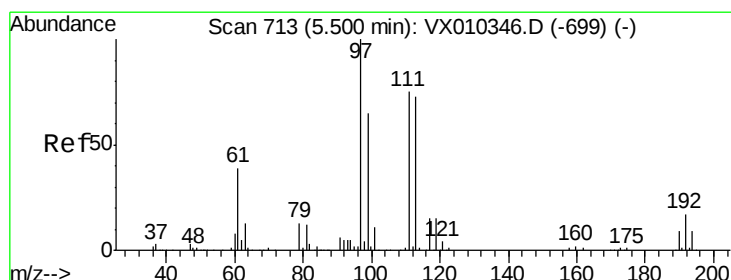
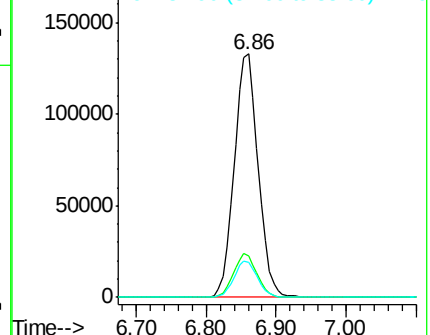
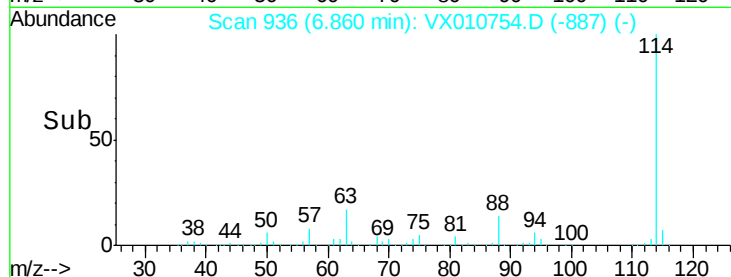
88 14.3 0.0 27.6



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: 48.963 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010754.D

Acq: 09 Jul 2019 16:34

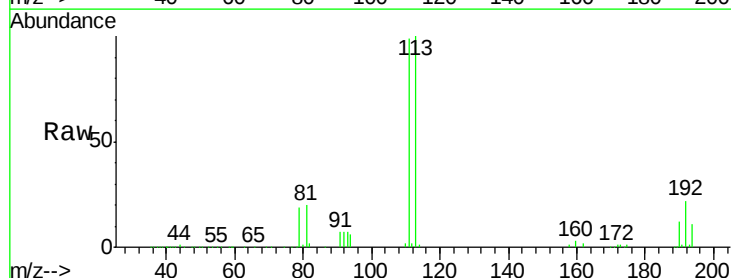
Tgt Ion:113 Resp: 94462

Ion Ratio Lower Upper

113 100

111 101.5 81.2 121.8

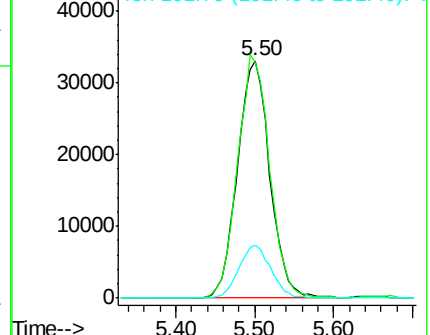
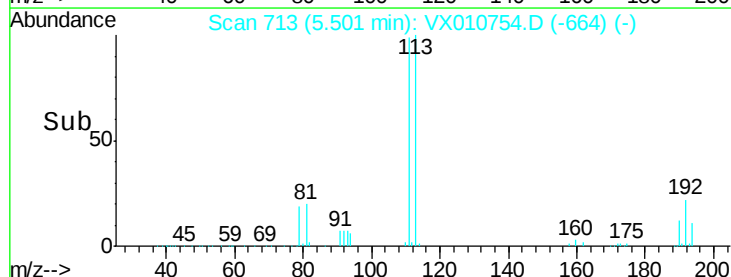
192 22.1 18.6 27.8

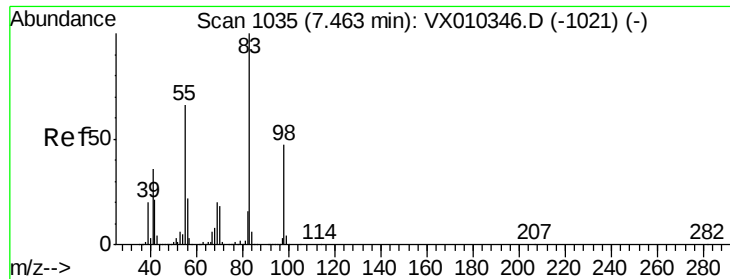


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

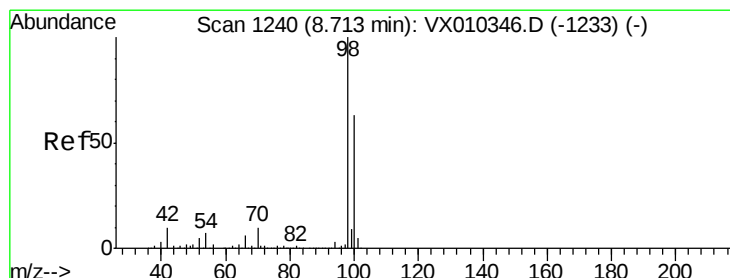
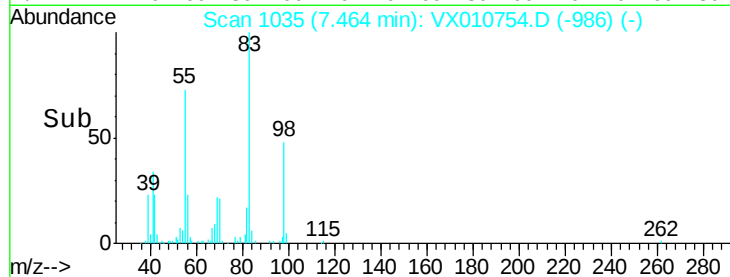
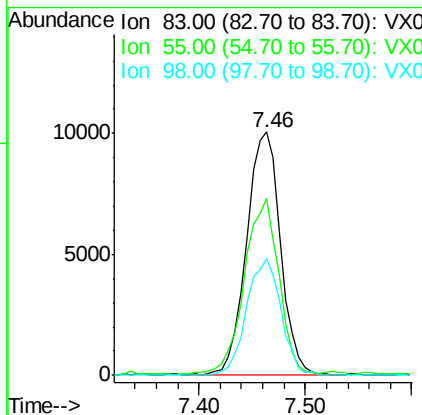
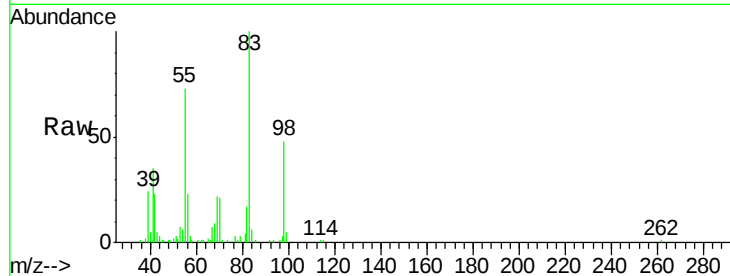




#39  
Methvlcvclohexane  
Concen: 6.843 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VX010754.D  
Acq: 09 Jul 2019 16:34

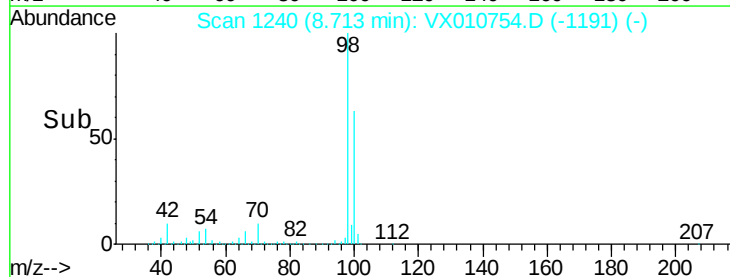
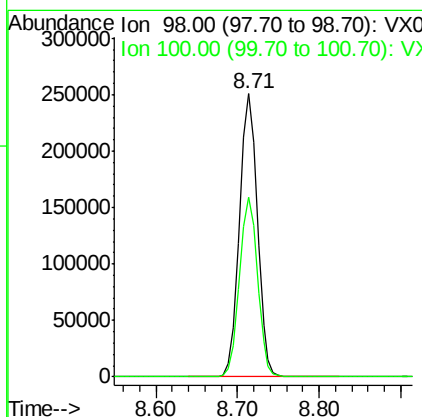
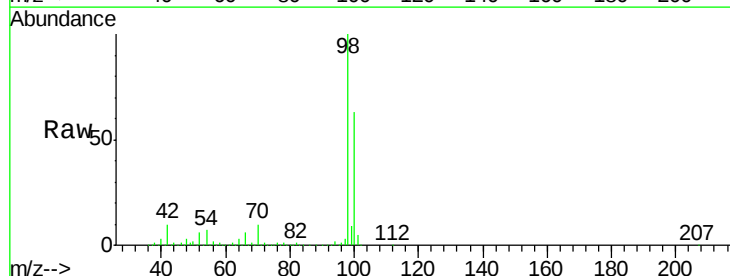
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0588DL

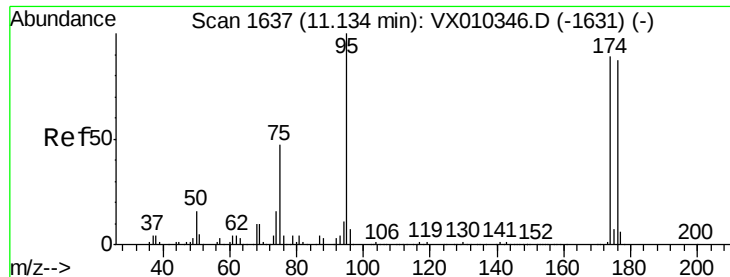
Tot Ion: 83 Resp: 22538  
Ion Ratio Lower Upper  
83 100  
55 71.8 53.0 79.6  
98 48.2 37.8 56.8



#50  
Toluene-d8  
Concen: 51.295 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010754.D  
Acq: 09 Jul 2019 16:34

Tgt Ion: 98 Resp: 378601  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.6 77.4





#62

4-Bromofluorobenzene

Concen: 52.005 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010754.D

Acq: 09 Jul 2019 16:34

Instrument :

MSVOA\_X

ClientSampleId :

FL-0588DL

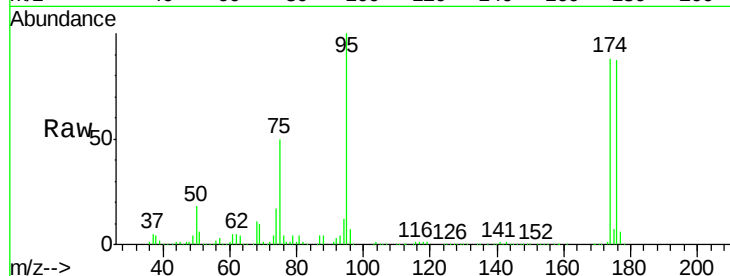
Tot Ion: 95 Resp: 138579

Ion Ratio Lower Upper

95 100

174 93.2 0.0 187.6

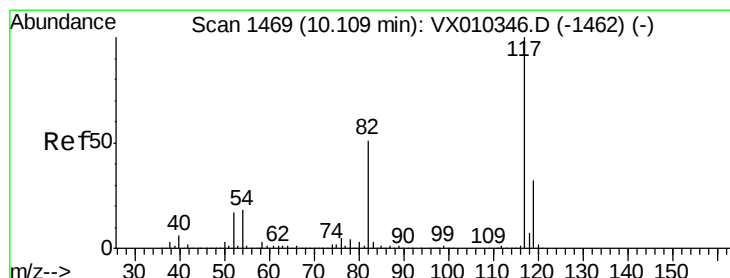
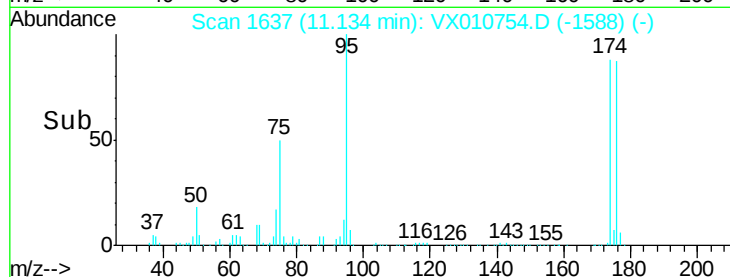
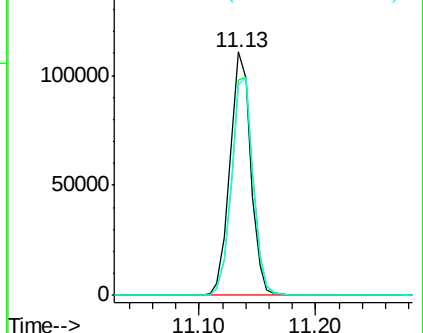
176 91.4 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010346.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010346.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010346.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010754.D

Acq: 09 Jul 2019 16:34

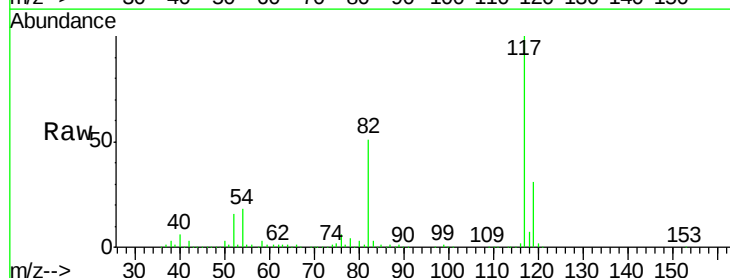
Tgt Ion: 117 Resp: 298054

Ion Ratio Lower Upper

117 100

82 50.6 41.2 61.8

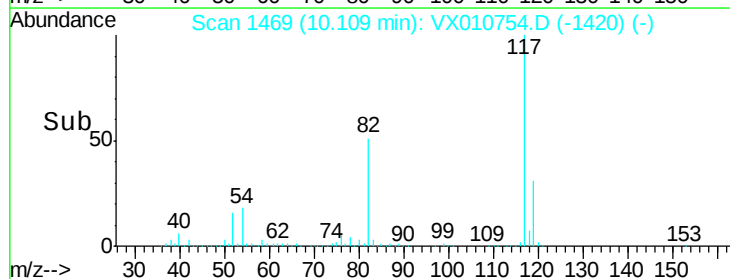
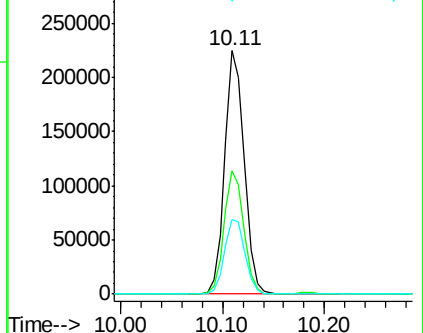
119 30.8 25.5 38.3

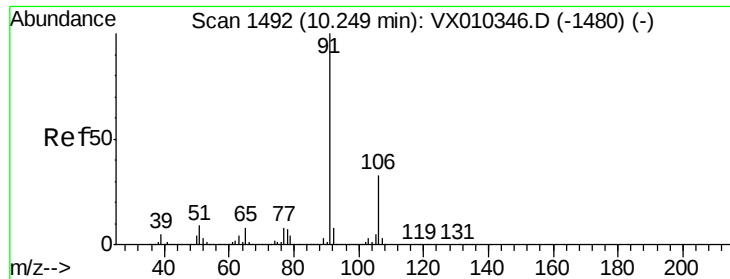


Abundance Ion 116.90 (116.60 to 117.60): VX010346.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010346.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010346.D (-1462) (-)





#67

Ethyl Benzene

Concen: 29.403 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX010754.D

Acq: 09 Jul 2019 16:34

Instrument :

MSVOA\_X

ClientSampleId :

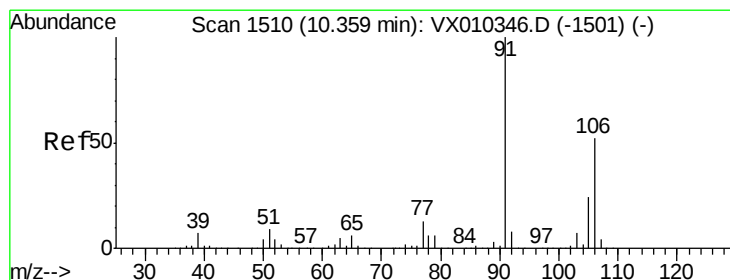
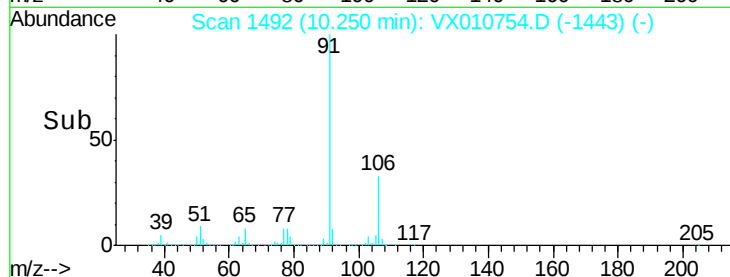
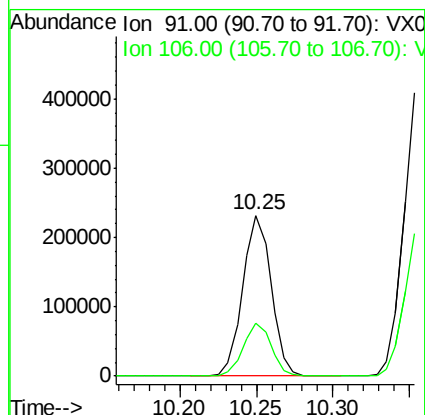
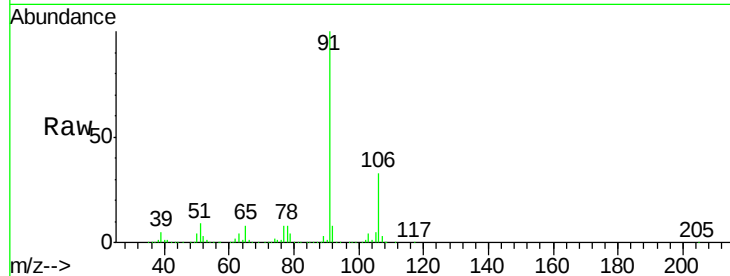
FL-0588DL

Tot Ion: 91 Resp: 300362

Ion Ratio Lower Upper

91 100

106 32.7 26.2 39.2



#68

m/p-Xylenes

Concen: 73.189 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX010754.D

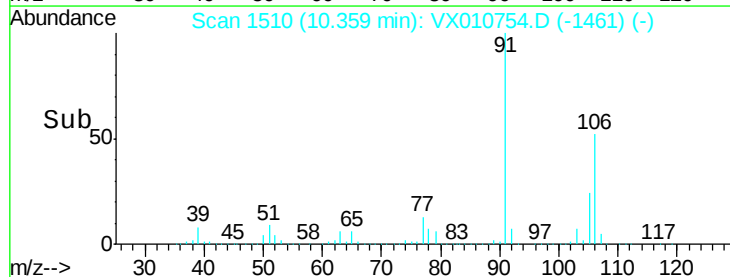
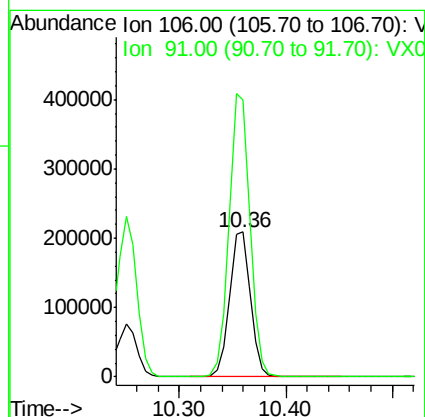
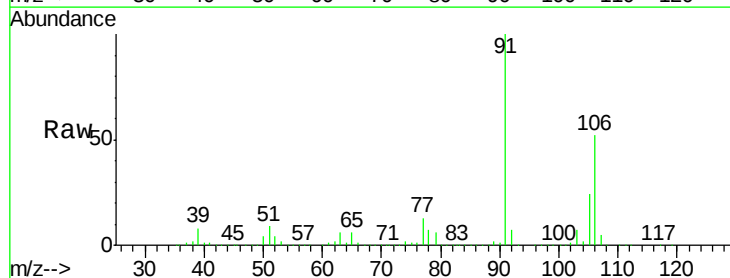
Acq: 09 Jul 2019 16:34

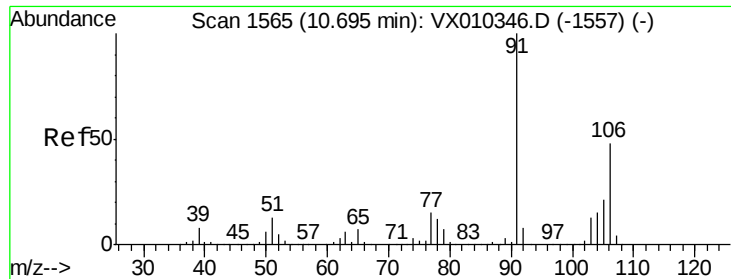
Tgt Ion: 106 Resp: 289700

Ion Ratio Lower Upper

106 100

91 194.7 155.3 232.9

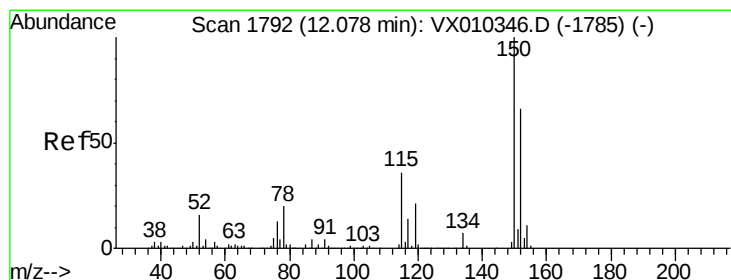
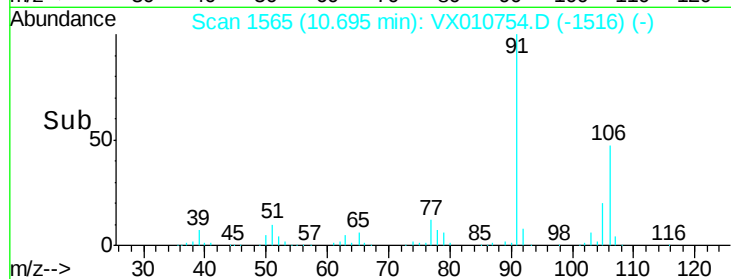
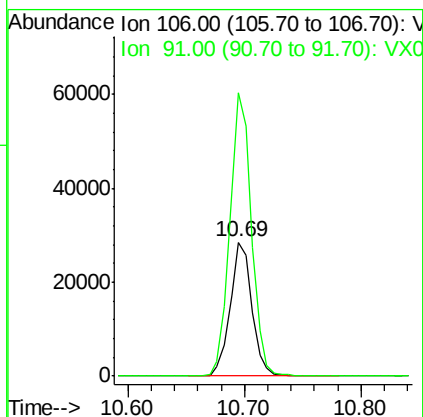
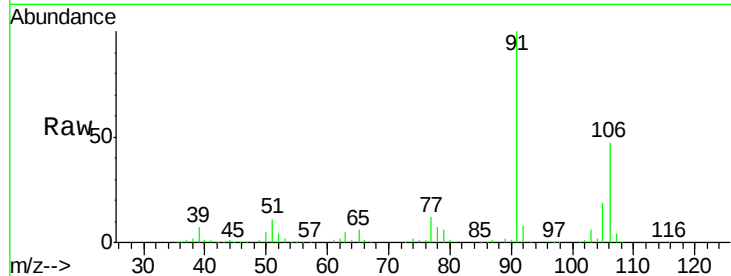




#69  
o-Xylene  
Concen: 9.526 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX010754.D  
Acq: 09 Jul 2019 16:34

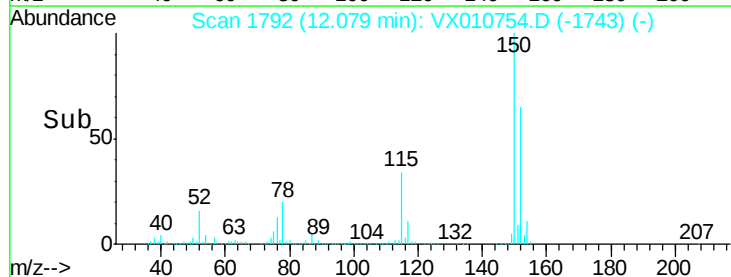
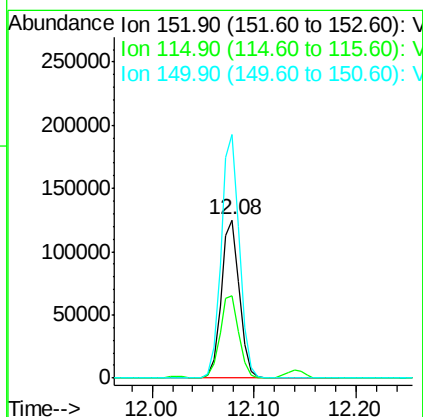
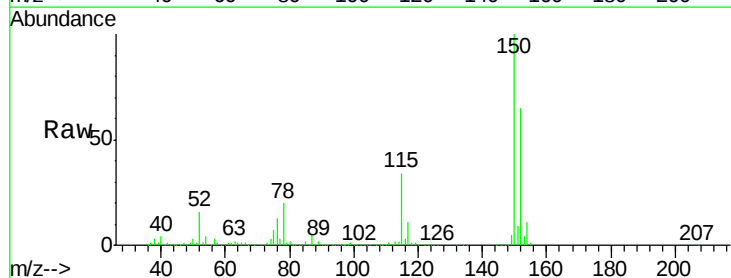
Instrument :  
MSVOA\_X  
ClientSampleID :  
FL-0588DL

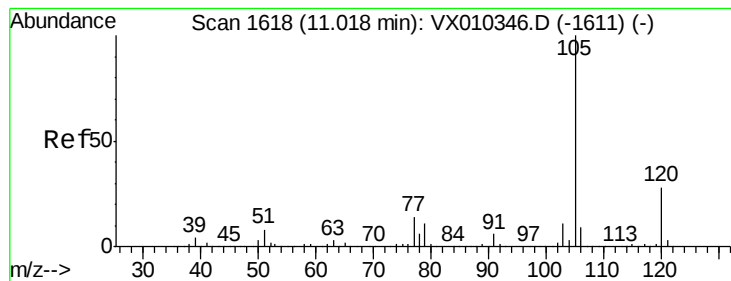
Tot Ion:106 Resp: 37082  
Ion Ratio Lower Upper  
106 100  
91 210.0 102.7 308.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010754.D  
Acq: 09 Jul 2019 16:34

Tgt Ion:152 Resp: 154961  
Ion Ratio Lower Upper  
152 100  
115 54.5 38.6 115.7  
150 154.8 0.0 347.4





#73

Isopropylbenzene

Concen: 3.570 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010754.D

Acq: 09 Jul 2019 16:34

Instrument :

MSVOA\_X

ClientSampleId :

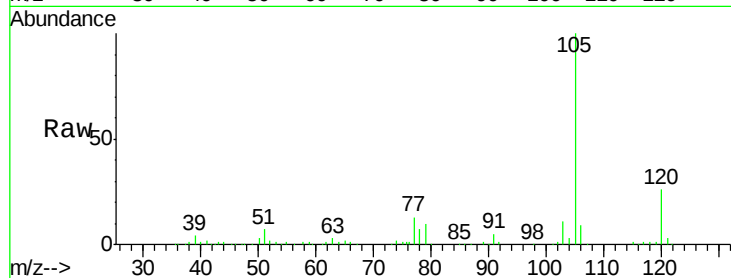
FL-0588DL

Tot Ion: 105 Resp: 37505

Ion Ratio Lower Upper

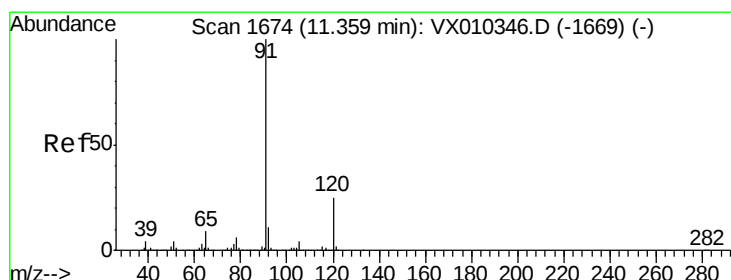
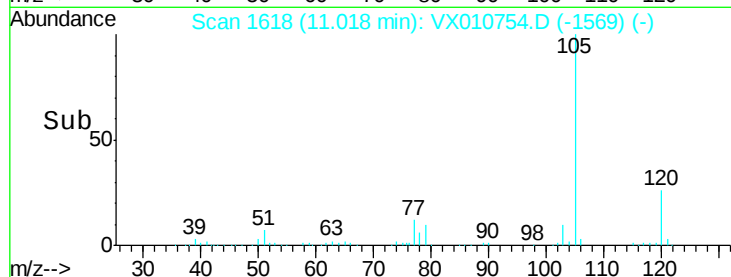
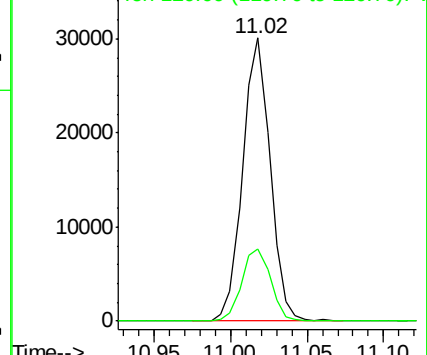
105 100

120 27.0 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 5.971 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010754.D

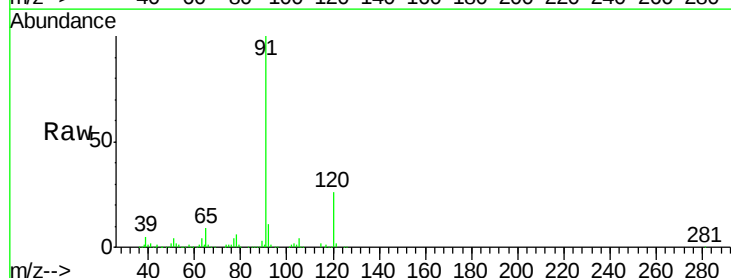
Acq: 09 Jul 2019 16:34

Tgt Ion: 91 Resp: 68932

Ion Ratio Lower Upper

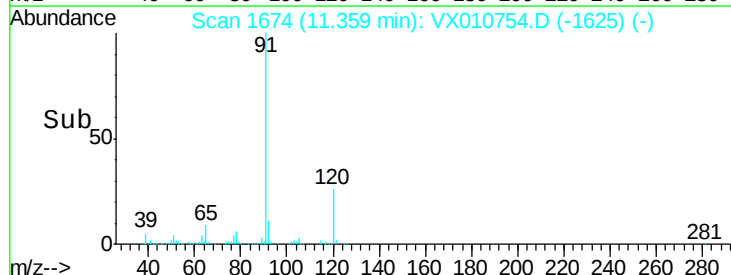
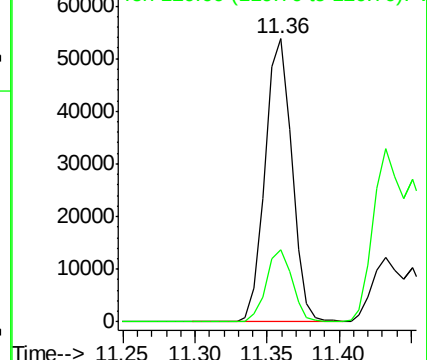
91 100

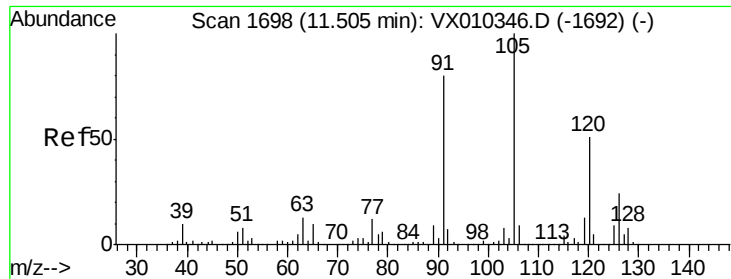
120 24.9 12.4 37.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

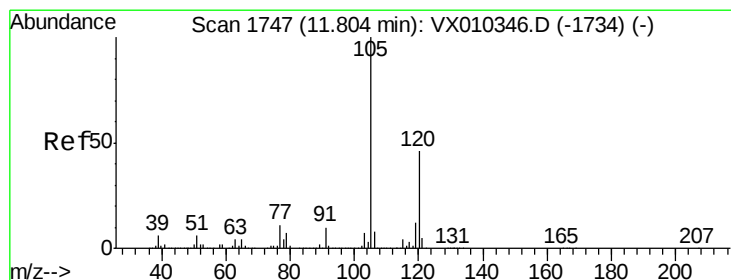
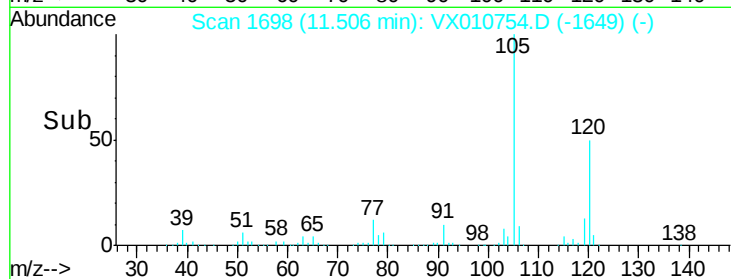
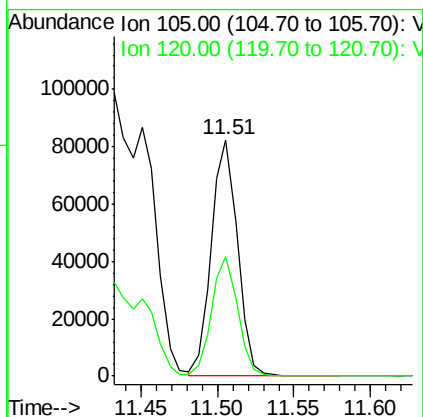
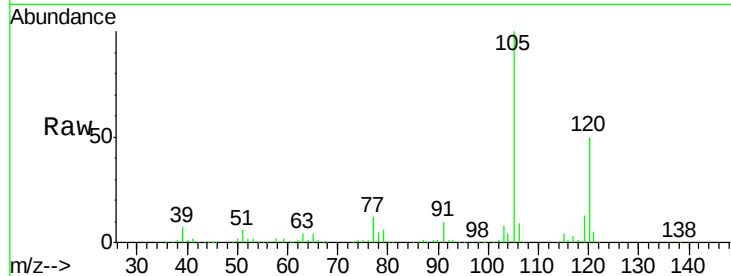




#80  
 1,3,5-Trimethylbenzene  
 Concen: 11.341 ug/l  
 RT: 11.51 min Scan# 1698  
 Delta R.T. 0.00 min  
 Lab File: VX010754.D  
 Acq: 09 Jul 2019 16:34

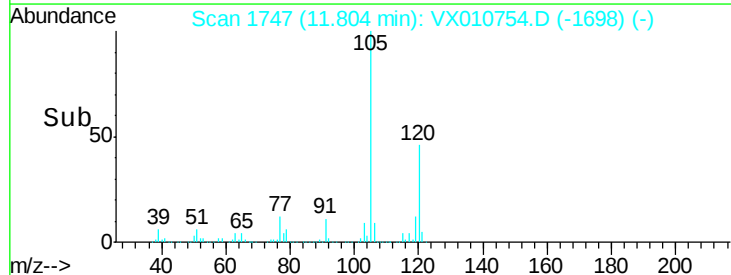
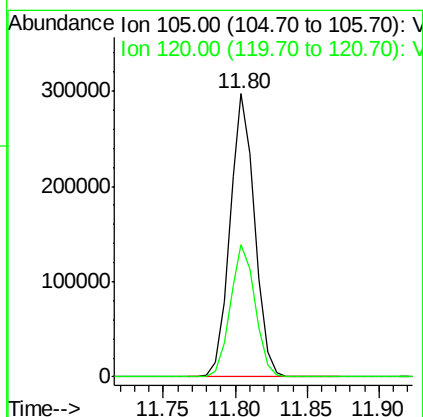
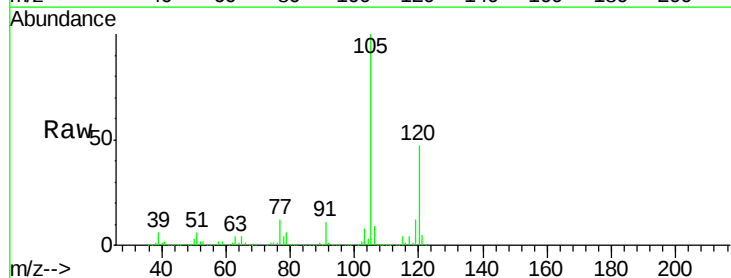
Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 FL-0588DL

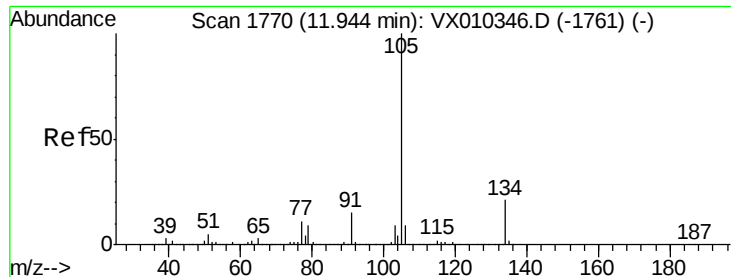
Tot Ion:105 Resp: 98209  
 Ion Ratio Lower Upper  
 105 100  
 120 50.2 25.2 75.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 40.875 ug/l  
 RT: 11.80 min Scan# 1747  
 Delta R.T. 0.00 min  
 Lab File: VX010754.D  
 Acq: 09 Jul 2019 16:34

Tgt Ion:105 Resp: 355626  
 Ion Ratio Lower Upper  
 105 100  
 120 47.2 23.1 69.2

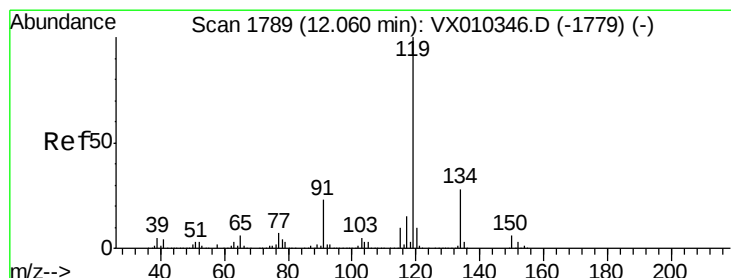
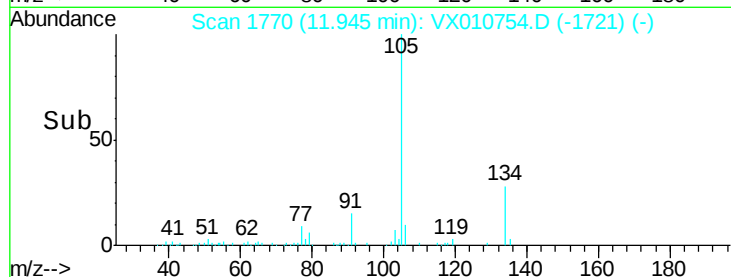
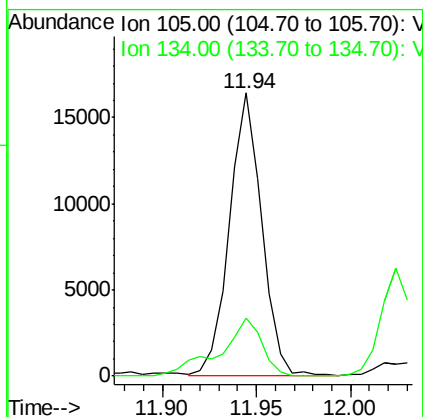
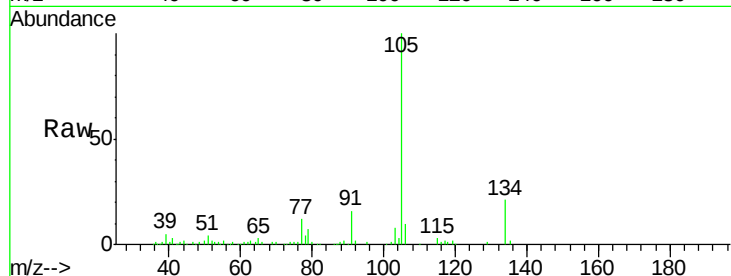




#85  
 sec-Butylbenzene  
 Concen: 1.916 ug/l  
 RT: 11.94 min Scan# 1770  
 Delta R.T. 0.00 min  
 Lab File: VX010754.D  
 Acq: 09 Jul 2019 16:34

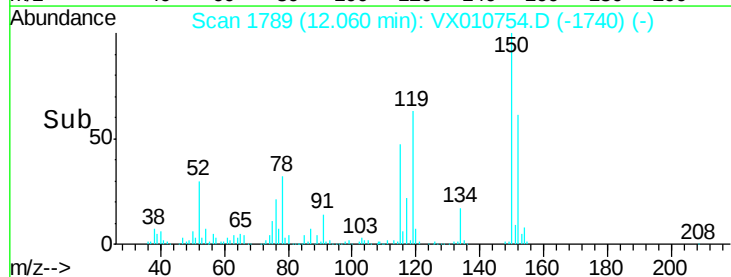
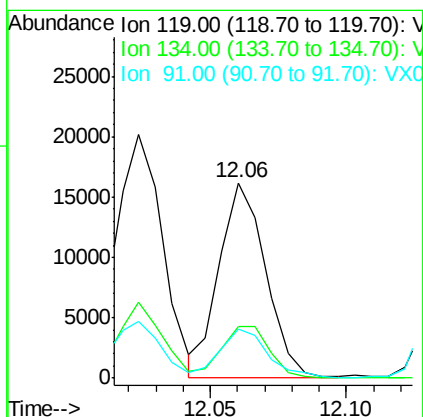
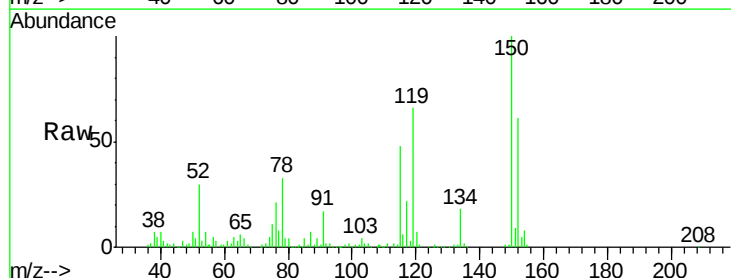
Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 FL-0588DL

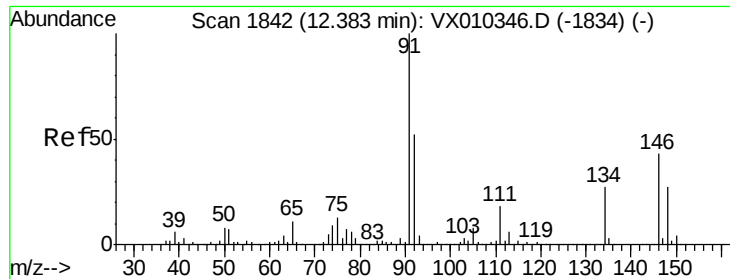
Tot Ion:105 Resp: 19554  
 Ion Ratio Lower Upper  
 105 100  
 134 26.9 10.7 31.9



#86  
 p-Isopropyltoluene  
 Concen: 2.021 ug/l  
 RT: 12.06 min Scan# 1789  
 Delta R.T. 0.00 min  
 Lab File: VX010754.D  
 Acq: 09 Jul 2019 16:34

Tgt Ion:119 Resp: 19076  
 Ion Ratio Lower Upper  
 119 100  
 134 28.1 13.7 41.1  
 91 26.4 11.3 33.8

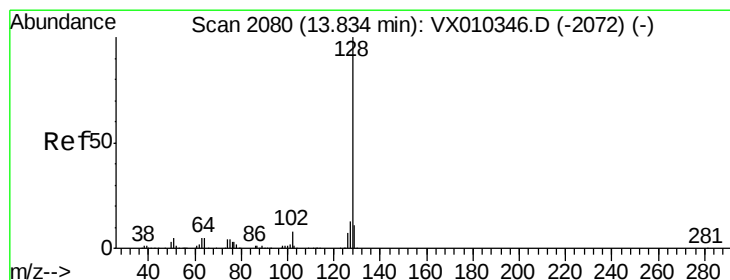
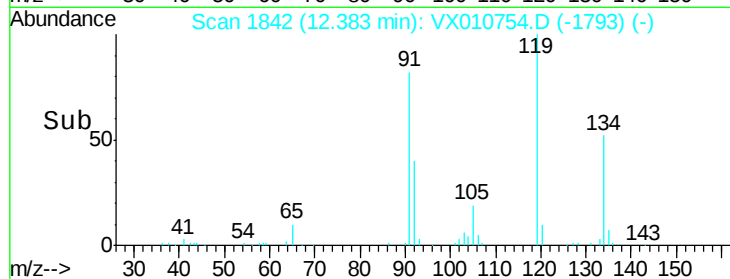
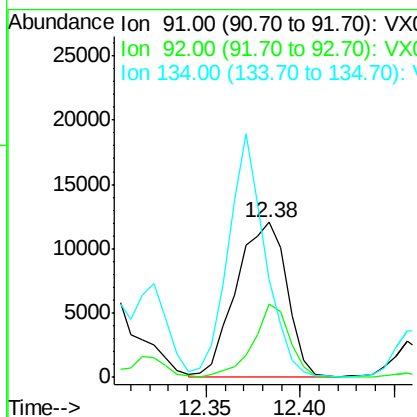
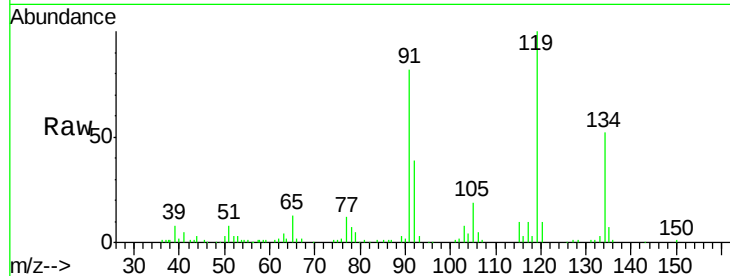




#89  
n-Butylbenzene  
Concen: 2.765 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. 0.00 min  
Lab File: VX010754.D  
Acq: 09 Jul 2019 16:34

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0588DL

Tot Ion: 91 Resp: 22180  
Ion Ratio Lower Upper  
91 100  
92 34.3 26.2 78.5  
134 115.9 14.1 42.4#



#95  
Naphthalene  
Concen: 7.572 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX010754.D  
Acq: 09 Jul 2019 16:34

Tgt Ion: 128 Resp: 82113  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.2 15.4  
129 11.8 8.9 13.3

