

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072618\  
 Data File : VX003697.D  
 Acq On : 27 Jul 2018 04:40  
 Operator : JC/SP  
 Sample : J4154-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0508

Quant Time: Jul 27 17:35:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 27 02:16:51 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 87298    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 154559   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 136576   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 74939    | 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   | 74666    | 57.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.48% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 57649    | 45.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.26%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 247087   | 51.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.48% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 90969    | 51.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.44% |          |

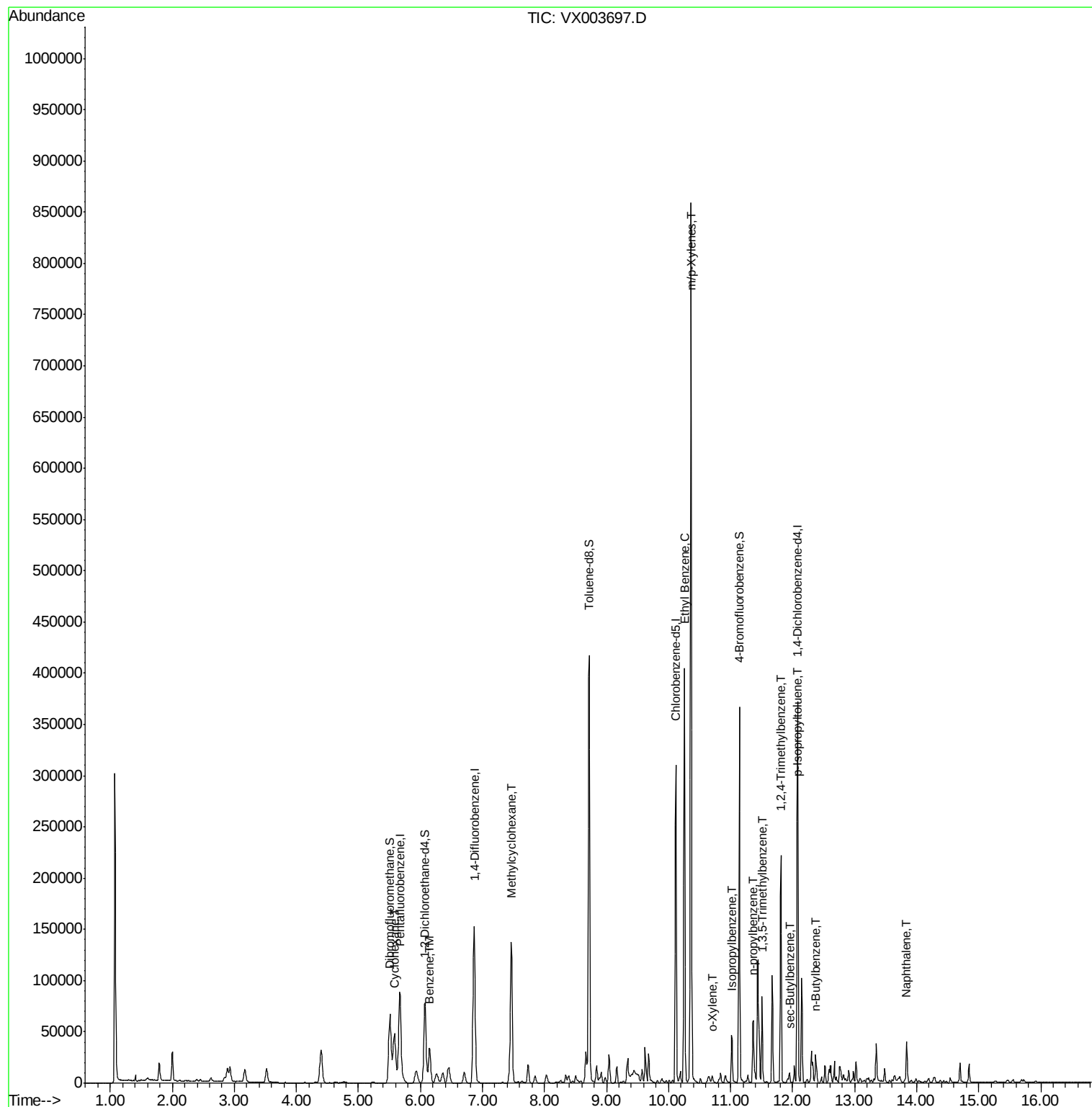
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 31) Cyclohexane            | 5.58  | 56   | 31713    | 18.24 | ug/l   | 99     |
| 39) Methylcyclohexane      | 7.46  | 83   | 58771    | 29.55 | ug/l   | 98     |
| 40) Benzene                | 6.14  | 78   | 39809    | 7.45  | ug/l   | 98     |
| 67) Ethyl Benzene          | 10.26 | 91   | 227569   | 39.55 | ug/l   | 100    |
| 68) m/p-Xylenes            | 10.36 | 106  | 189366   | 85.79 | ug/l   | 99     |
| 69) o-Xylene               | 10.70 | 106  | 1437     | 0.68  | ug/l   | 97     |
| 73) Isopropylbenzene       | 11.02 | 105  | 23378    | 4.57  | ug/l   | 99     |
| 78) n-propylbenzene        | 11.36 | 91   | 27594    | 4.67  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 36481    | 8.42  | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 92854    | 20.86 | ug/l   | 99     |
| 85) sec-Butylbenzene       | 11.95 | 105  | 4992     | 0.99  | ug/l   | 98     |
| 86) p-Isopropyltoluene     | 12.07 | 119  | 4542     | 1.00  | ug/l   | 93     |
| 89) n-Butylbenzene         | 12.38 | 91   | 4278     | 1.05  | ug/l # | 35     |
| 95) Naphthalene            | 13.83 | 128  | 24961    | 4.37  | ug/l   | 99     |

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

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Instrument :  
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ClientSampleId :  
FL-0508

Quant Time: Jul 27 17:35:35 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X072418W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 27 02:16:51 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

Instrument :

MSVOA\_X

ClientSampleId :

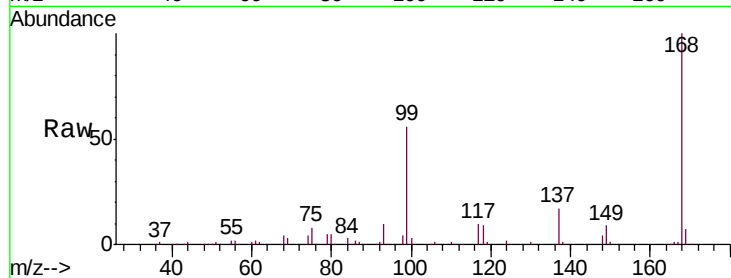
FL-0508

Tot Ion:168 Resp: 87298

Ion Ratio Lower Upper

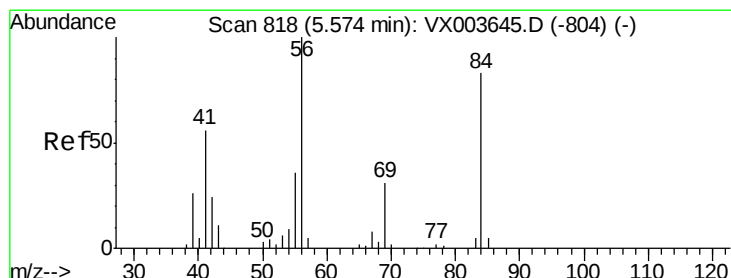
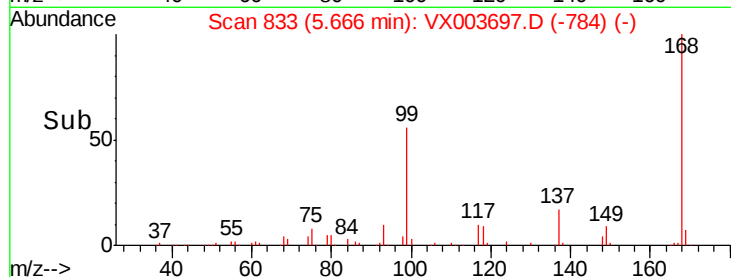
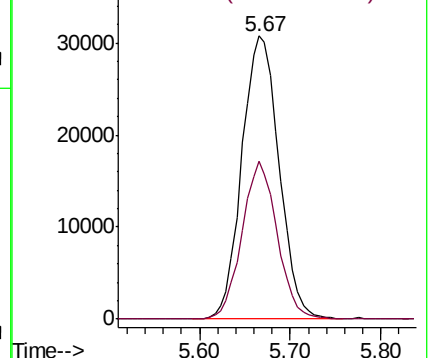
168 100

99 55.9 49.5 74.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#31

Cyclohexane

Concen: 18.24 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

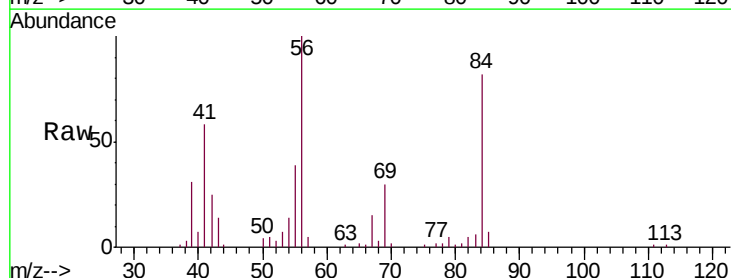
Tgt Ion: 56 Resp: 31713

Ion Ratio Lower Upper

56 100

69 29.6 25.0 37.6

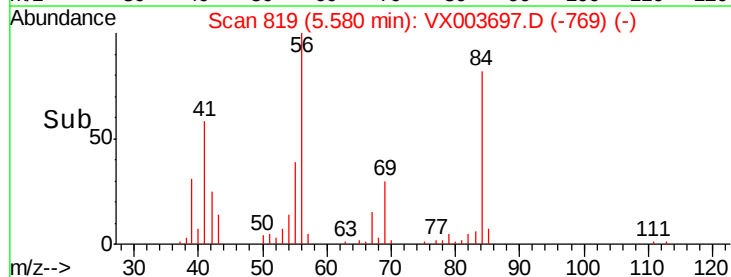
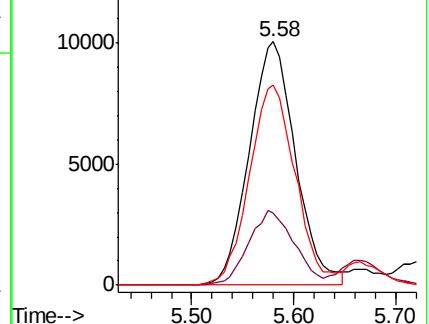
84 82.3 66.5 99.7

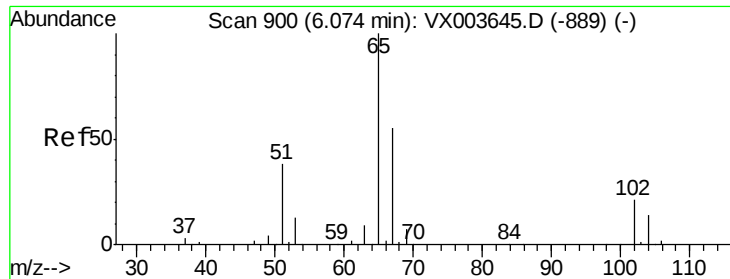


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

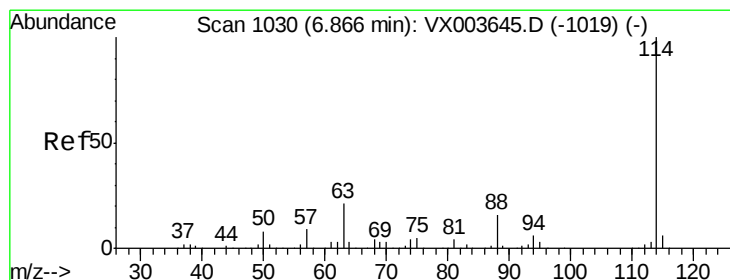
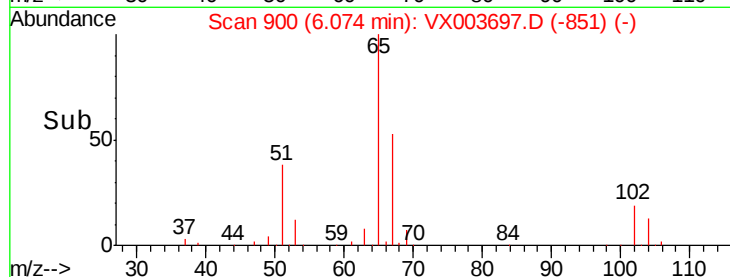
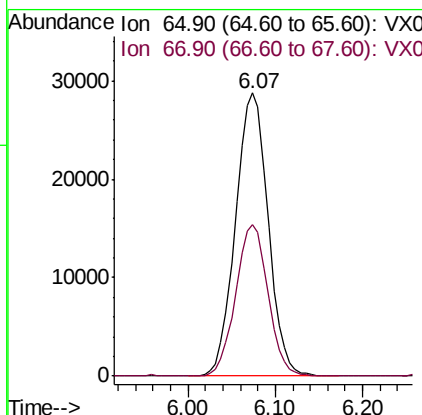
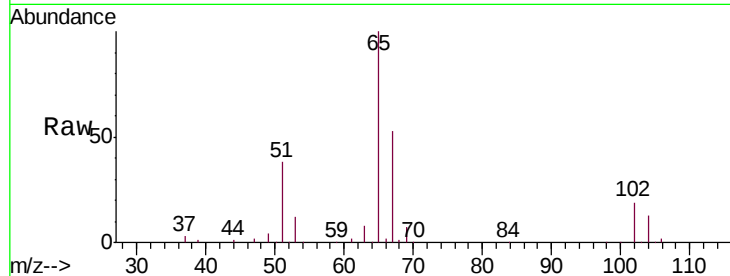




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.74 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX003697.D  
 Acq: 27 Jul 2018 04:40

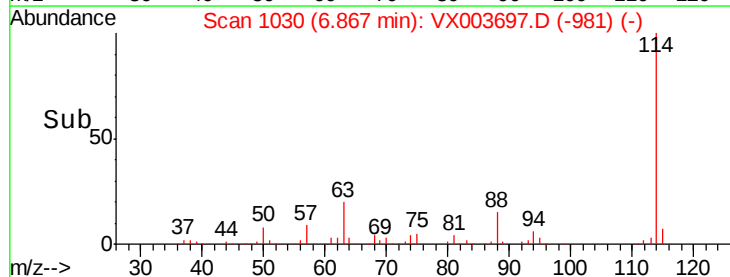
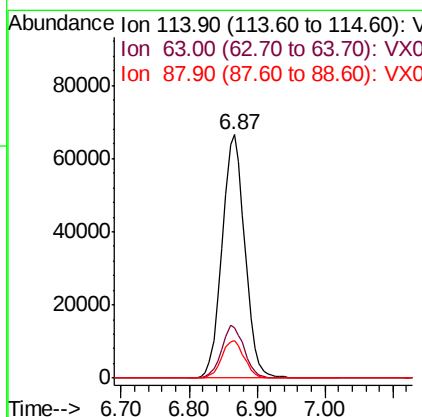
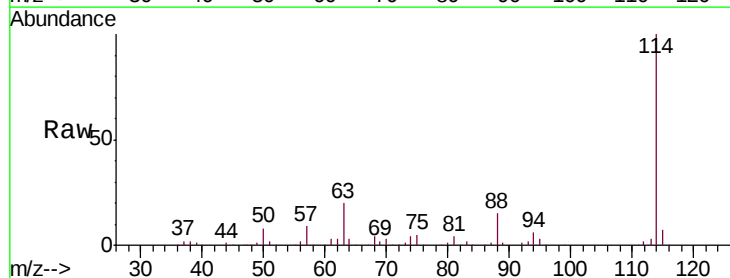
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0508

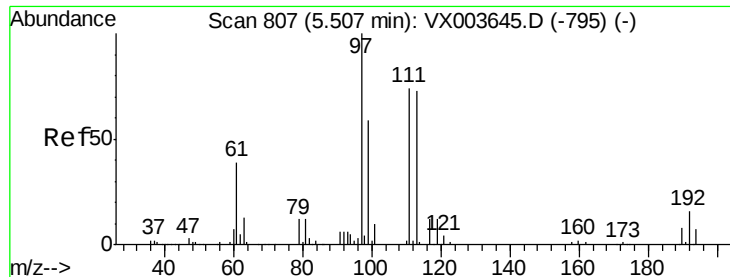
Tot Ion: 65 Resp: 74666  
 Ion Ratio Lower Upper  
 65 100  
 67 53.0 0.0 107.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003697.D  
 Acq: 27 Jul 2018 04:40

Tgt Ion: 114 Resp: 154559  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 0.0 41.0  
 88 15.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 45.63 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

Instrument :

MSVOA\_X

ClientSampled :

FL-0508

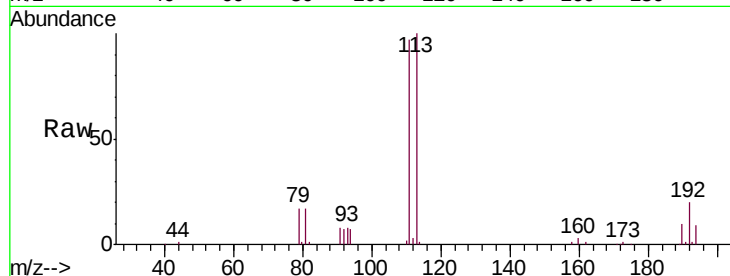
Tot Ion:113 Resp: 57649

Ion Ratio Lower Upper

113 100

111 101.0 81.2 121.8

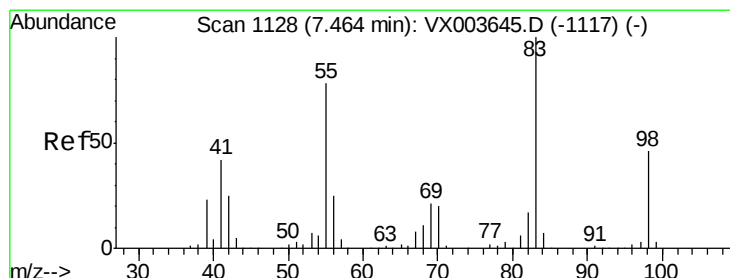
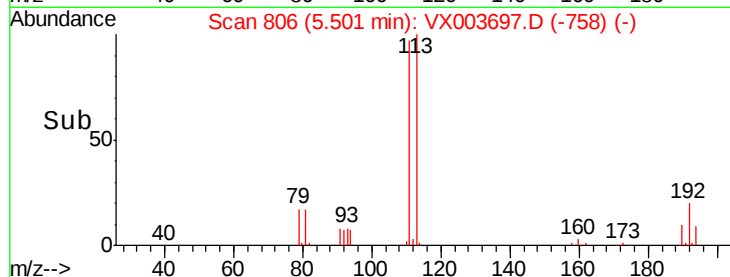
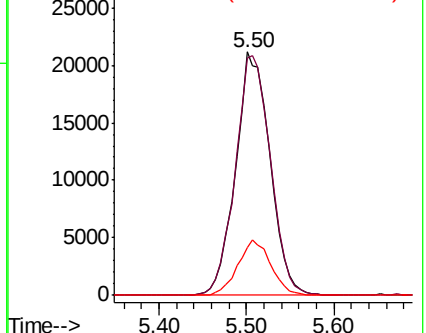
192 21.9 18.2 27.4



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: 29.55 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

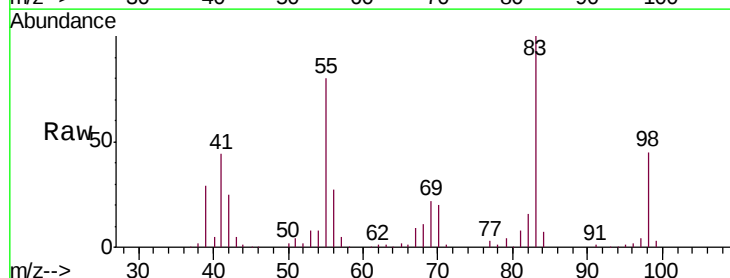
Tgt Ion: 83 Resp: 58771

Ion Ratio Lower Upper

83 100

55 79.8 62.6 93.8

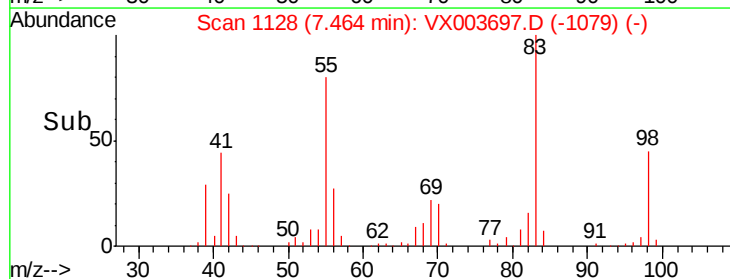
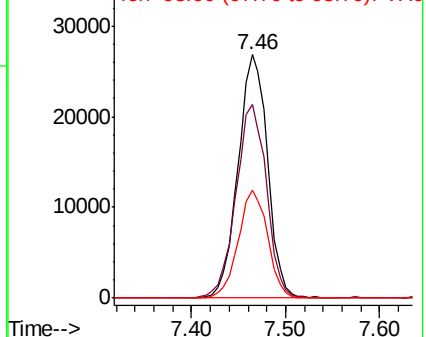
98 44.6 36.6 55.0

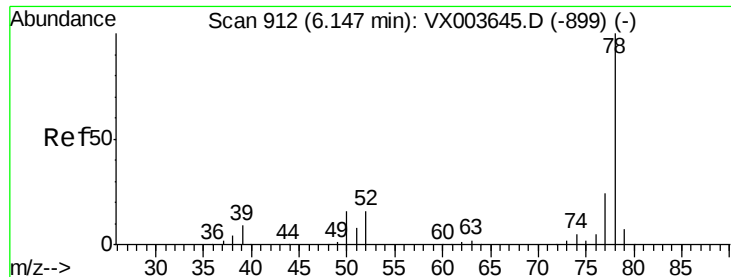


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

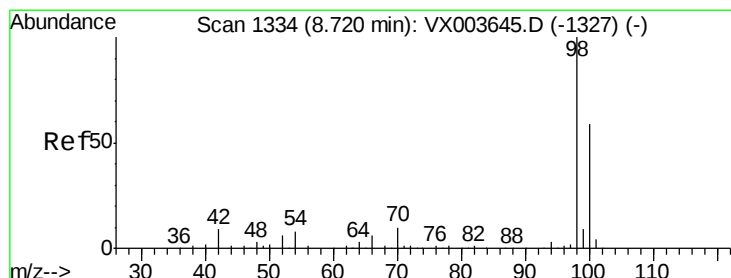
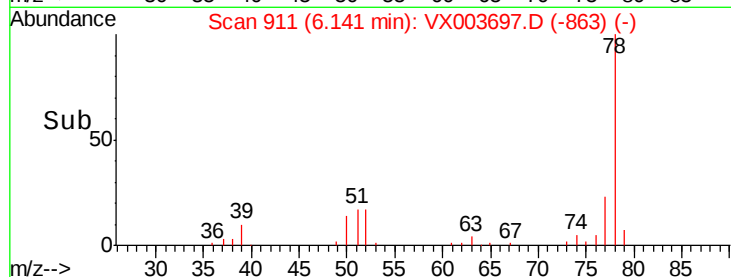
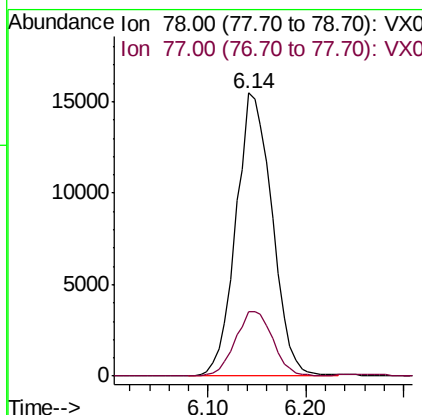
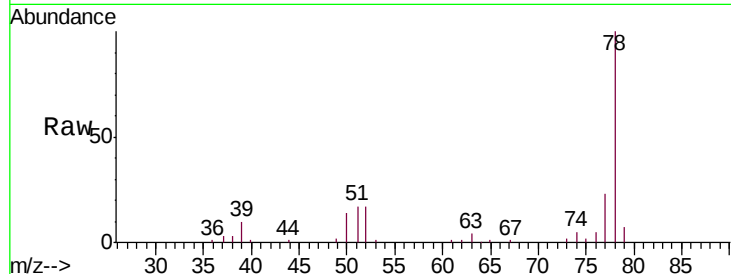




#40  
Benzene  
Concen: 7.45 ug/l  
RT: 6.14 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: VX003697.D  
Acq: 27 Jul 2018 04:40

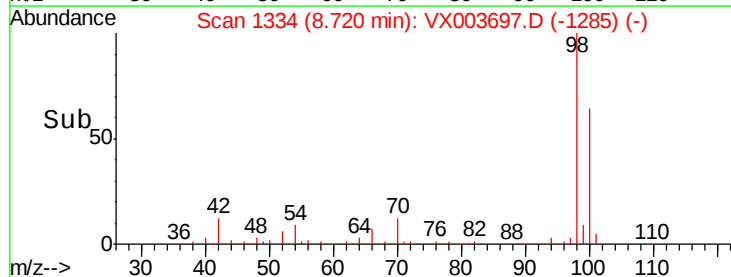
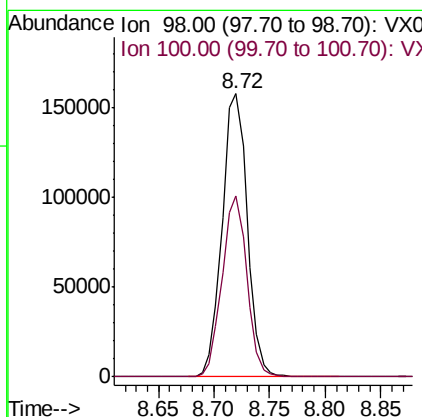
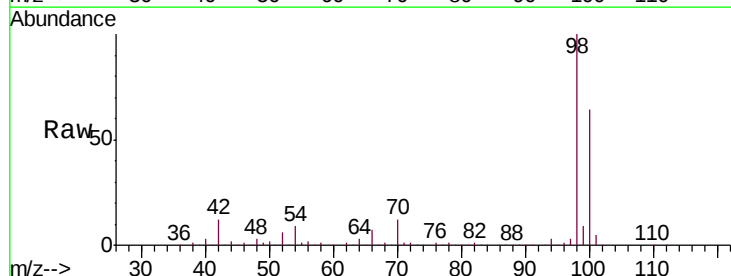
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0508

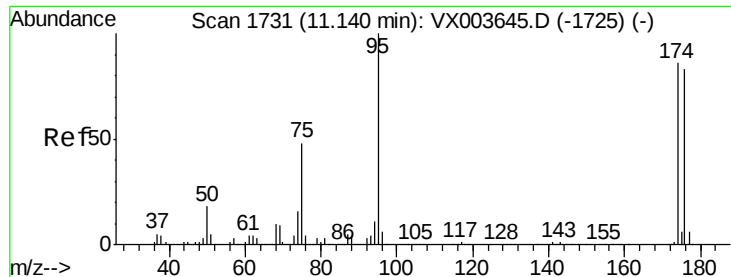
Tot Ion: 78 Resp: 39809  
Ion Ratio Lower Upper  
78 100  
77 23.0 19.0 28.6



#50  
Toluene-d8  
Concen: 51.24 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003697.D  
Acq: 27 Jul 2018 04:40

Tgt Ion: 98 Resp: 247087  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 51.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

Instrument :

MSVOA\_X

ClientSampled :

FL-0508

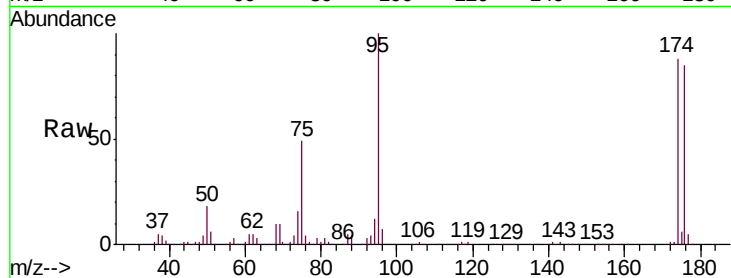
Tot Ion: 95 Resp: 90969

Ion Ratio Lower Upper

95 100

174 88.9 0.0 179.0

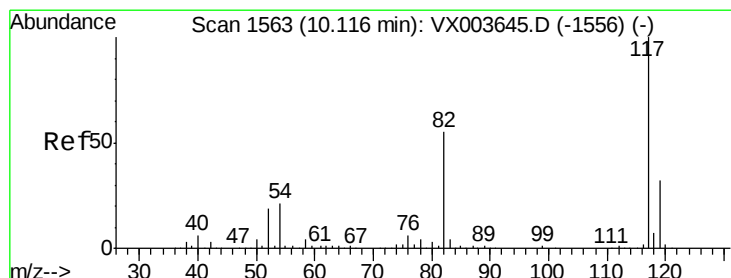
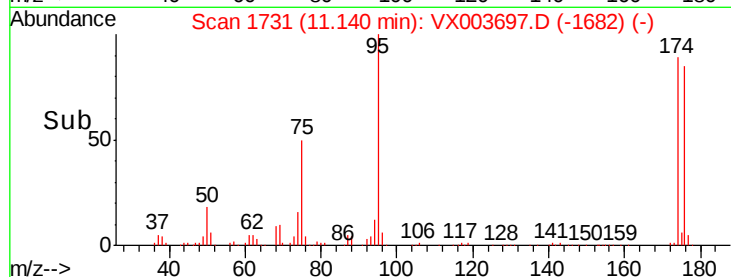
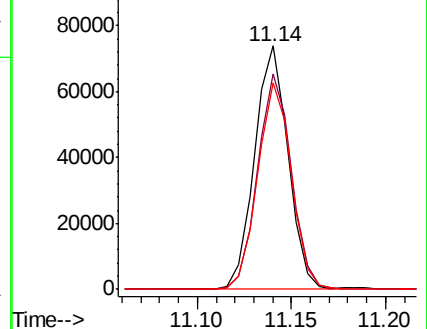
176 85.6 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX003645.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX003645.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX003645.D (-1725) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

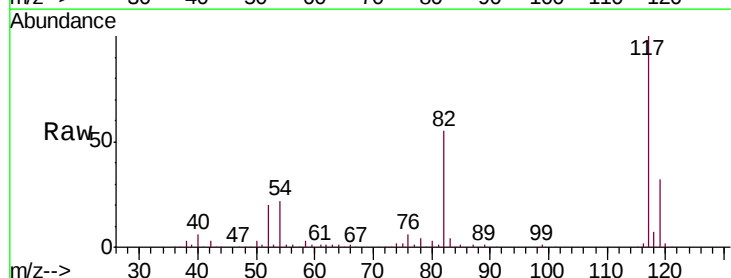
Tgt Ion: 117 Resp: 136576

Ion Ratio Lower Upper

117 100

82 55.2 44.3 66.5

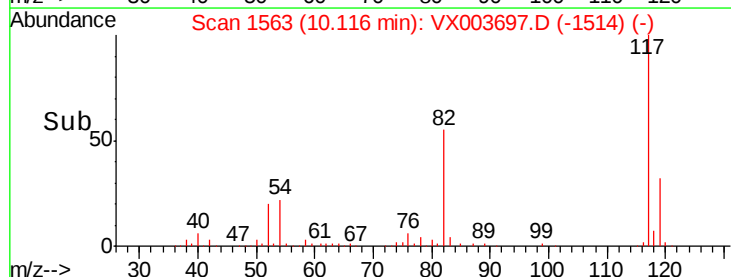
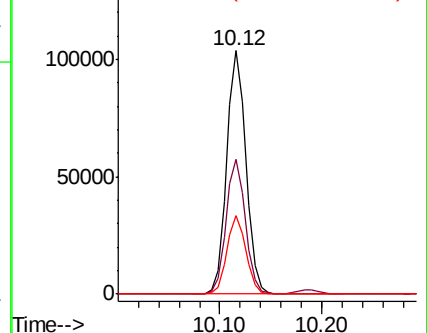
119 32.4 25.6 38.4

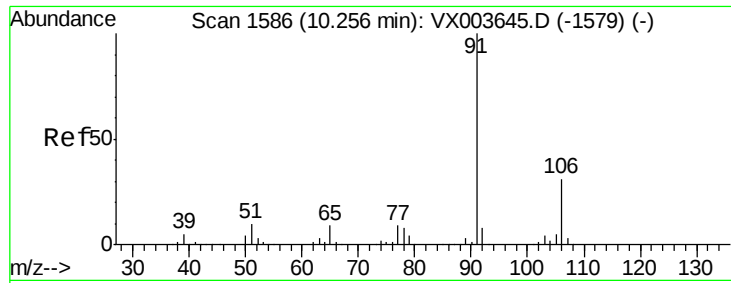


Abundance Ion 116.90 (116.60 to 117.60): VX003645.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX003645.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX003645.D (-1556) (-)





#67

Ethyl Benzene

Concen: 39.55 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

Instrument :

MSVOA\_X

ClientSampleId :

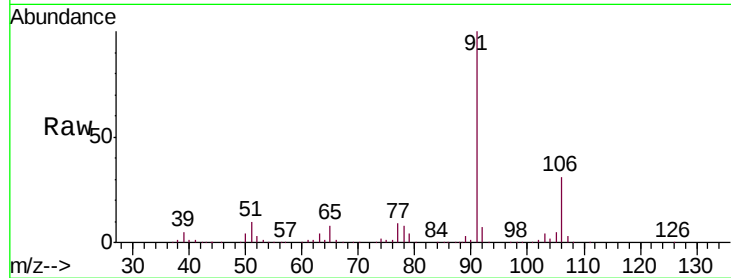
FL-0508

Tot Ion: 91 Resp: 227569

Ion Ratio Lower Upper

91 100

106 31.4 25.0 37.6



Abundance Ion 91.00 (90.70 to 91.70): VX003645.D (-1579) (-)

Ion 106.00 (105.70 to 106.70): VX003645.D (-1579) (-)

300000

200000

100000

0

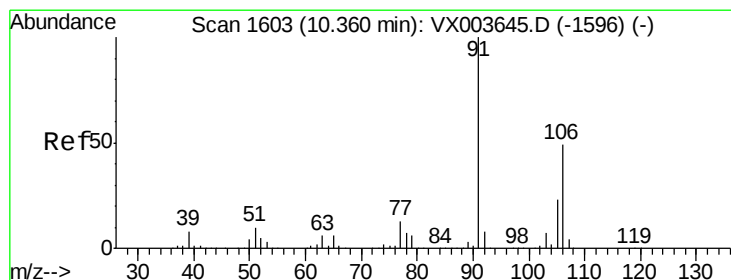
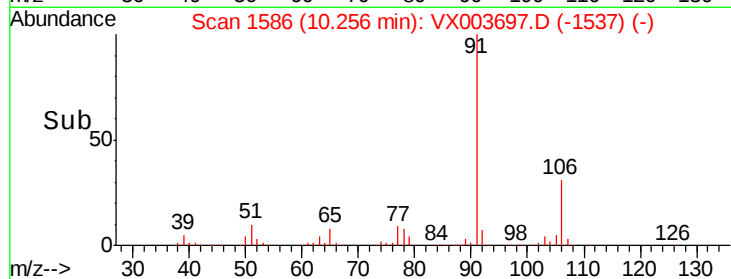
10.26

10.25

10.30

10.35

Time-->



#68

m/p-Xylenes

Concen: 85.79 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX003697.D

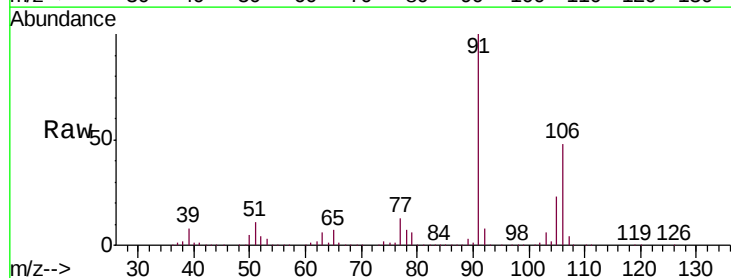
Acq: 27 Jul 2018 04:40

Tgt Ion: 106 Resp: 189366

Ion Ratio Lower Upper

106 100

91 204.5 162.2 243.2



Abundance Ion 106.00 (105.70 to 106.70): VX003645.D (-1596) (-)

Ion 91.00 (90.70 to 91.70): VX003645.D (-1596) (-)

300000

200000

100000

0

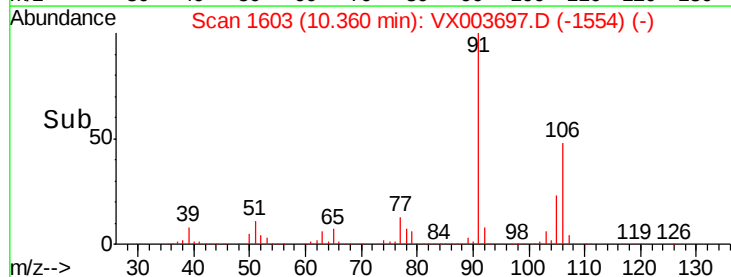
10.36

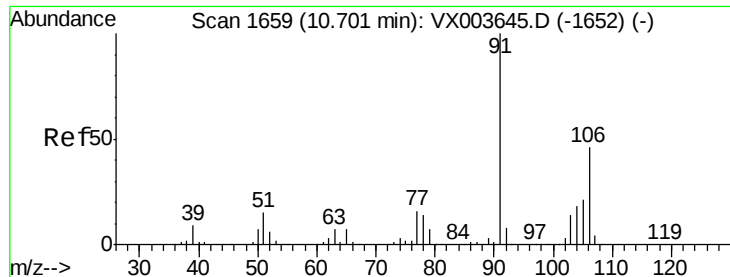
10.30

10.40

10.50

Time-->

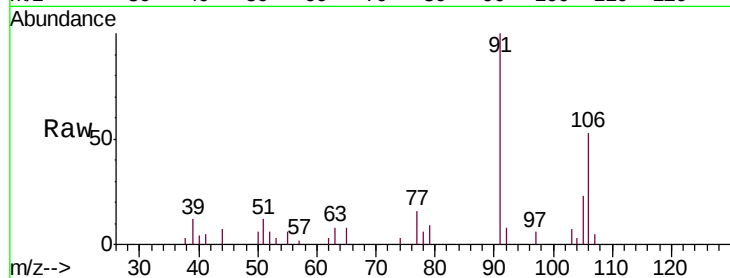




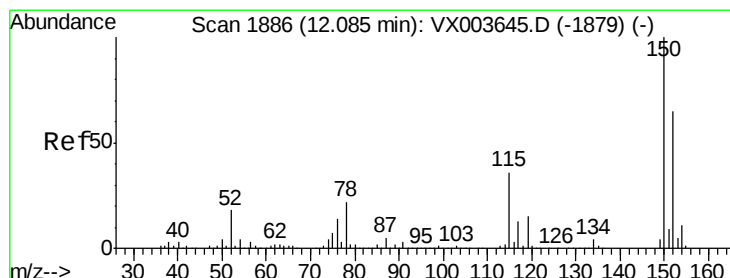
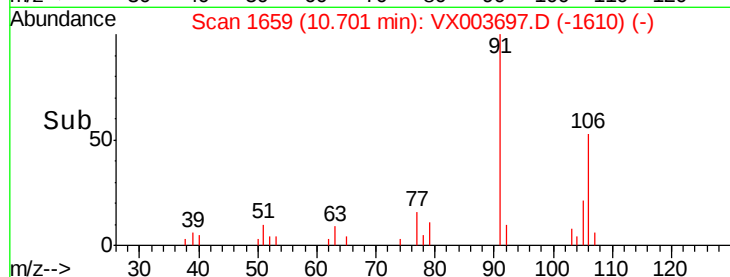
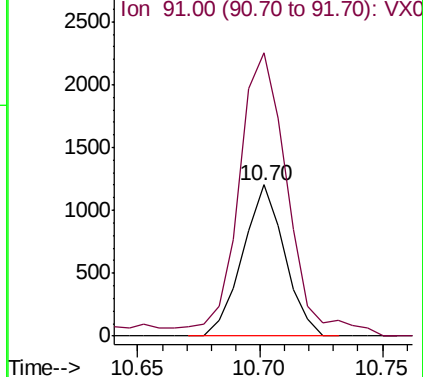
#69  
o-Xylene  
Concen: 0.68 ug/l  
RT: 10.70 min Scan# 1659  
Delta R.T. 0.00 min  
Lab File: VX003697.D  
Acq: 27 Jul 2018 04:40

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0508

Tot Ion:106 Resp: 1437  
Ion Ratio Lower Upper  
106 100  
91 218.6 107.1 321.1

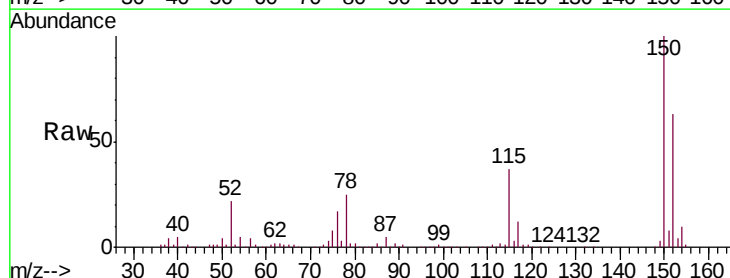


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

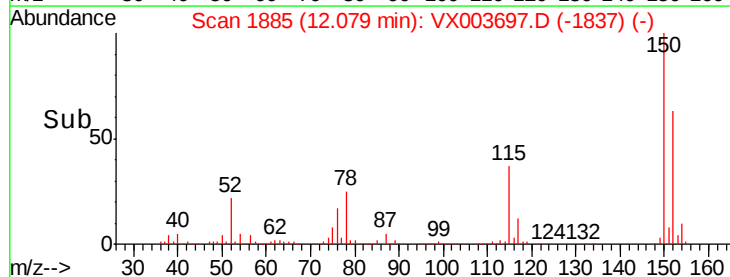
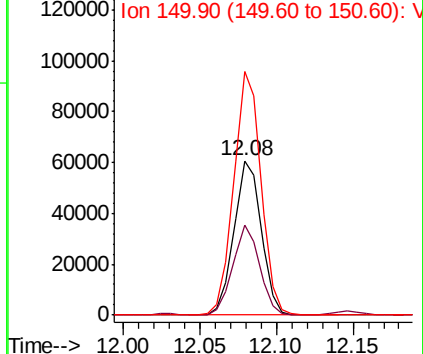


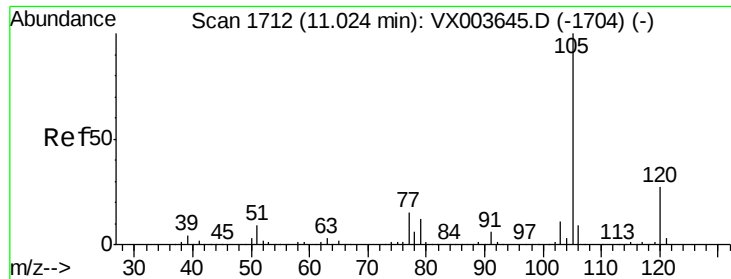
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. -0.01 min  
Lab File: VX003697.D  
Acq: 27 Jul 2018 04:40

Tgt Ion:152 Resp: 74939  
Ion Ratio Lower Upper  
152 100  
115 56.9 40.0 119.9  
150 157.1 0.0 348.4



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: 4.57 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.01 min

Lab File: VX003697.D

Acq: 27 Jul 2018 04:40

Instrument :

MSVOA\_X

ClientSampleId :

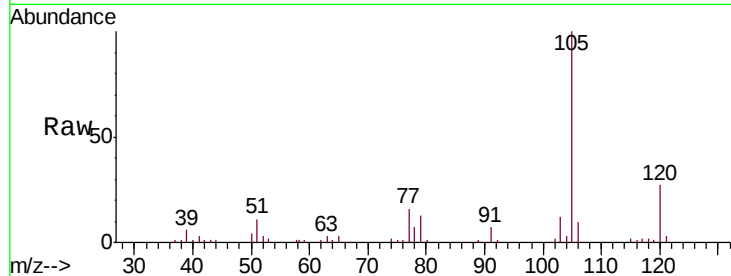
FL-0508

Tot Ion:105 Resp: 23378

Ion Ratio Lower Upper

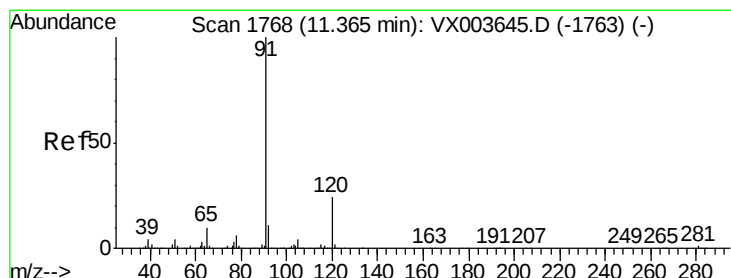
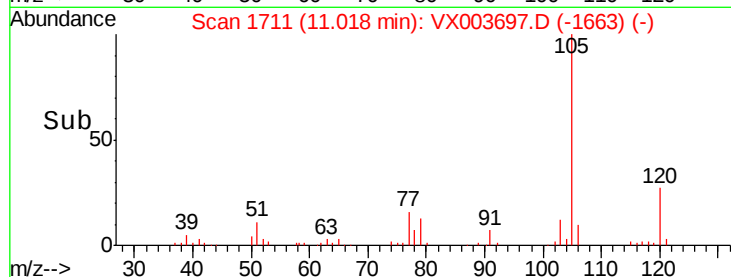
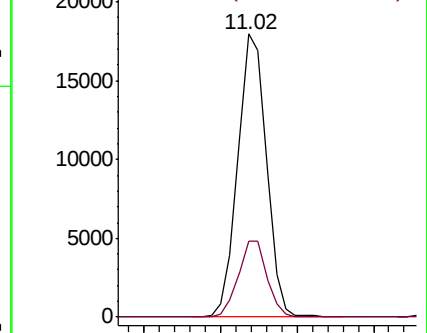
105 100

120 26.6 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 4.67 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.01 min

Lab File: VX003697.D

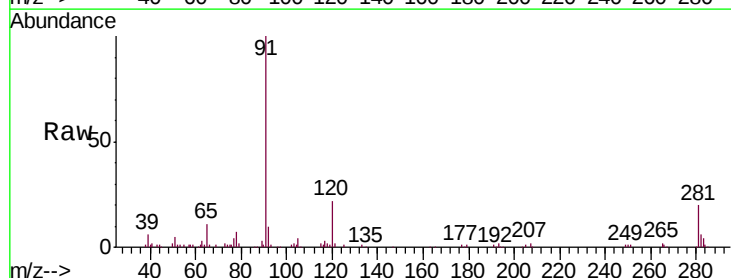
Acq: 27 Jul 2018 04:40

Tgt Ion: 91 Resp: 27594

Ion Ratio Lower Upper

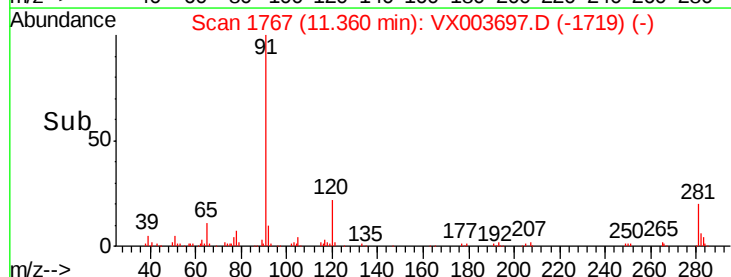
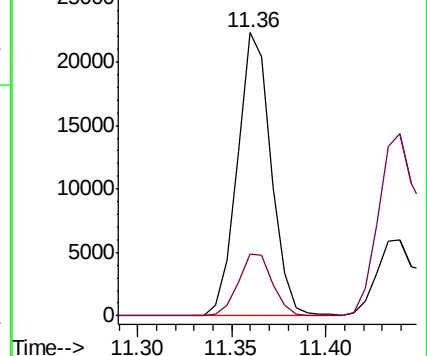
91 100

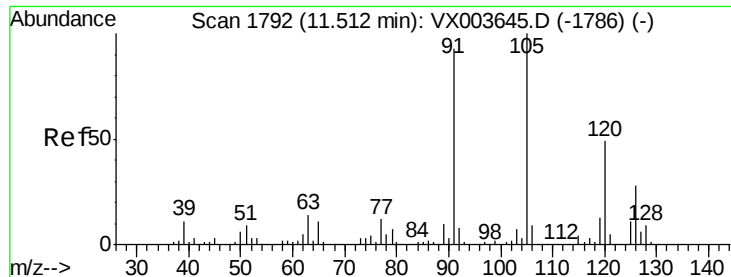
120 22.4 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

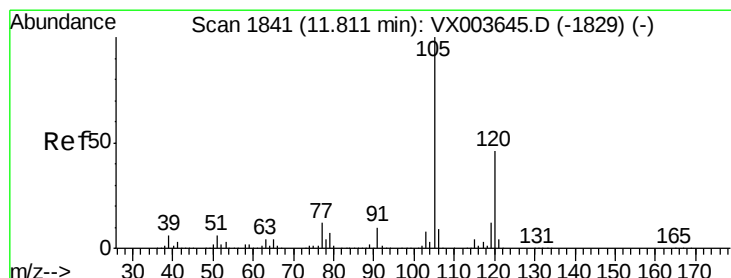
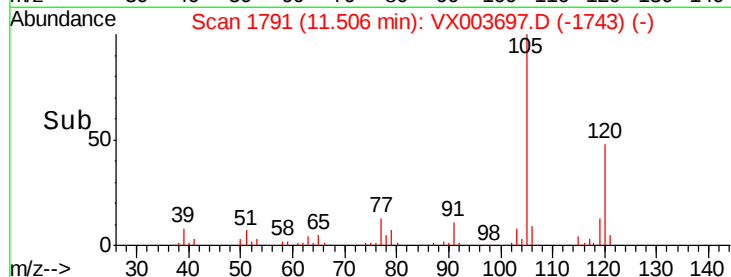
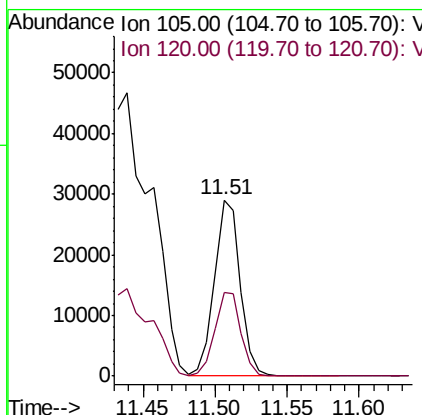
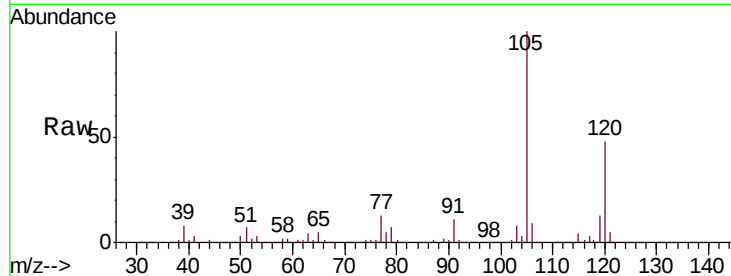




#80  
 1,3,5-Trimethylbenzene  
 Concen: 8.42 ug/l  
 RT: 11.51 min Scan# 1791  
 Delta R.T. -0.01 min  
 Lab File: VX003697.D  
 Acq: 27 Jul 2018 04:40

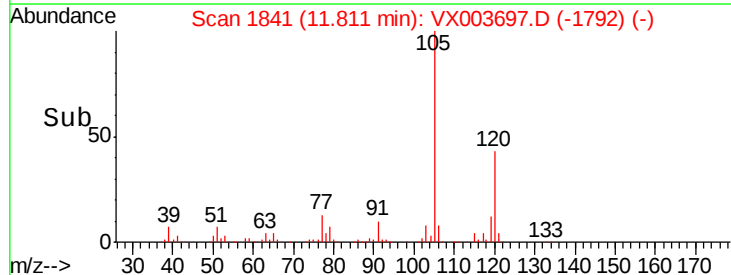
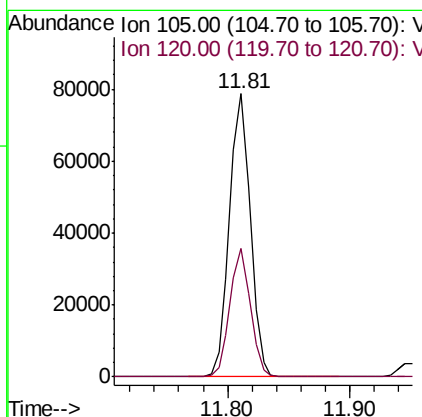
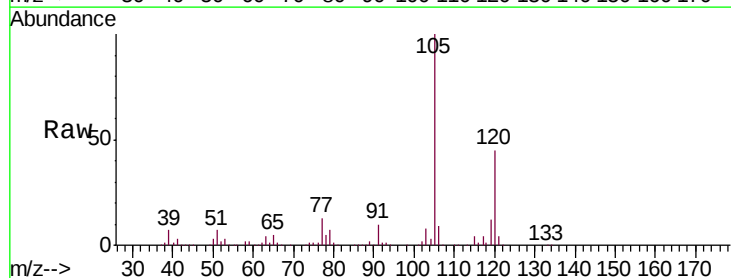
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0508

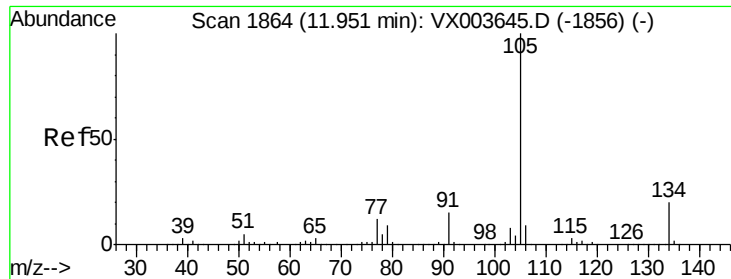
Tot Ion:105 Resp: 36481  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 24.4 73.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 20.86 ug/l  
 RT: 11.81 min Scan# 1841  
 Delta R.T. 0.00 min  
 Lab File: VX003697.D  
 Acq: 27 Jul 2018 04:40

Tgt Ion:105 Resp: 92854  
 Ion Ratio Lower Upper  
 105 100  
 120 44.5 22.6 67.8

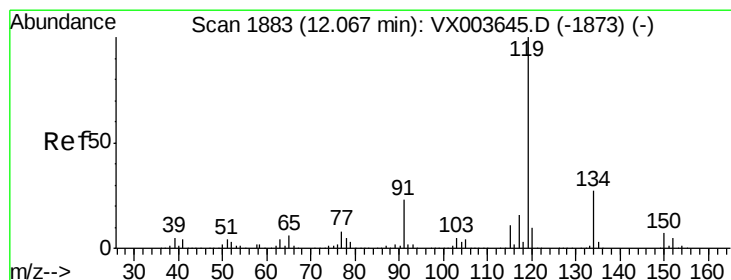
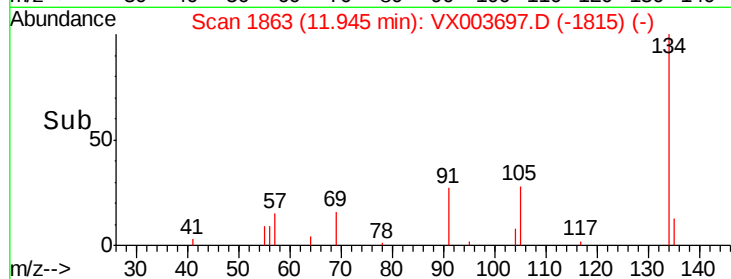
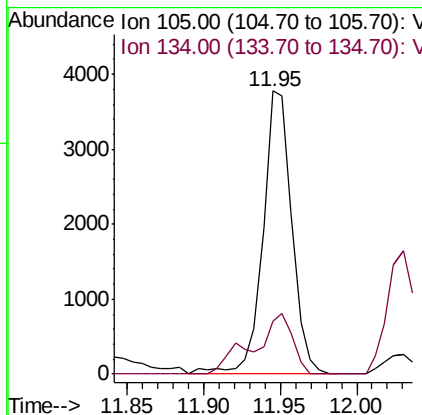
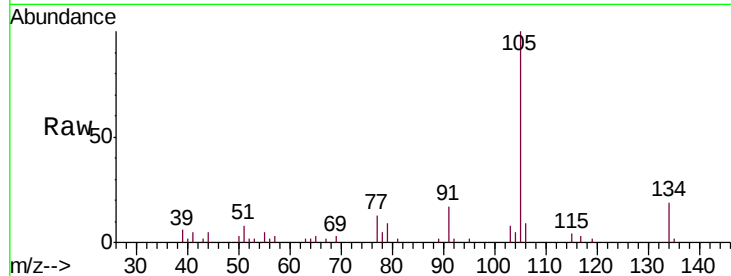




#85  
 sec-Butylbenzene  
 Concen: 0.99 ug/l  
 RT: 11.95 min Scan# 1863  
 Delta R.T. -0.01 min  
 Lab File: VX003697.D  
 Acq: 27 Jul 2018 04:40

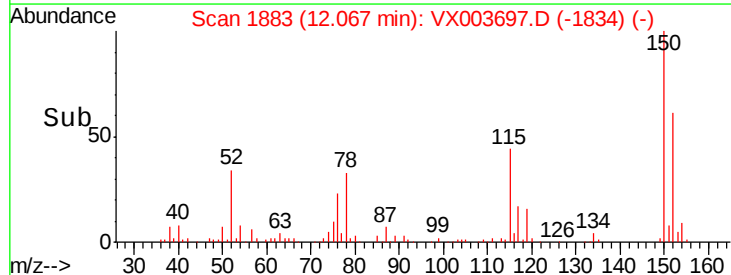
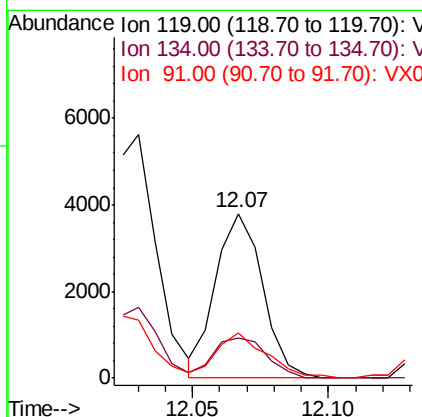
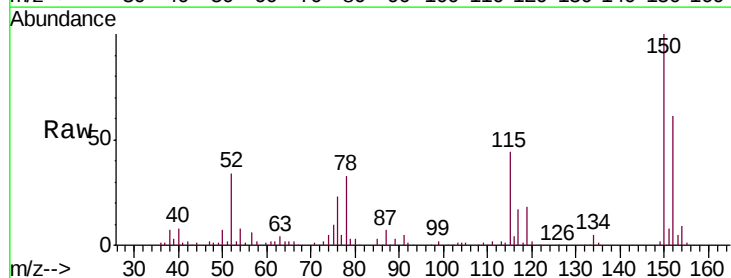
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0508

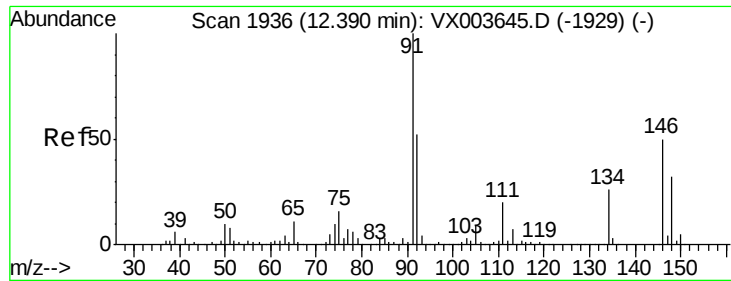
Tot Ion:105 Resp: 4992  
 Ion Ratio Lower Upper  
 105 100  
 134 19.0 10.1 30.1



#86  
 p-Isopropyltoluene  
 Concen: 1.00 ug/l  
 RT: 12.07 min Scan# 1883  
 Delta R.T. 0.00 min  
 Lab File: VX003697.D  
 Acq: 27 Jul 2018 04:40

Tgt Ion:119 Resp: 4542  
 Ion Ratio Lower Upper  
 119 100  
 134 27.7 13.3 39.9  
 91 29.2 11.5 34.5

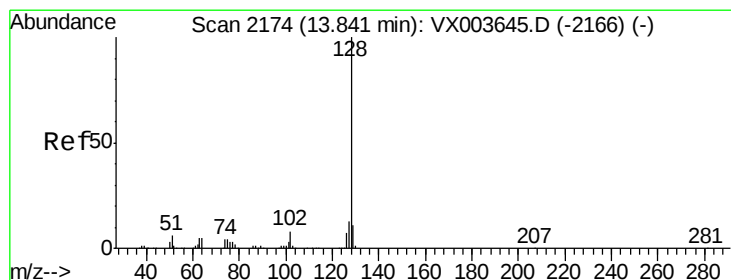
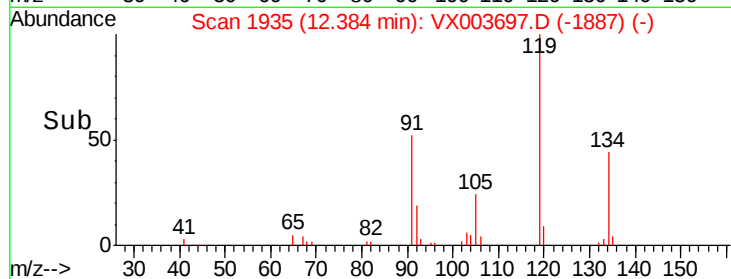
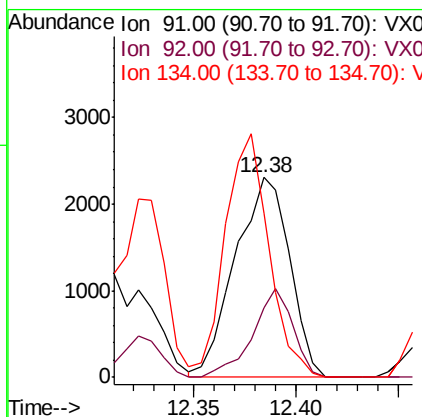
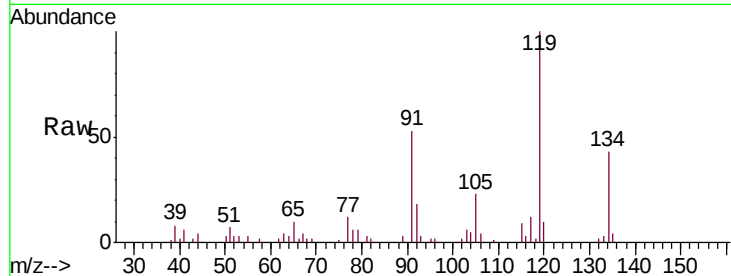




#89  
n-Butylbenzene  
Concen: 1.05 ug/l  
RT: 12.38 min Scan# 1935  
Delta R.T. -0.01 min  
Lab File: VX003697.D  
Acq: 27 Jul 2018 04:40

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0508

Tot Ion: 91 Resp: 4278  
Ion Ratio Lower Upper  
91 100  
92 32.9 26.3 78.9  
134 97.4 13.3 39.8#



#95  
Naphthalene  
Concen: 4.37 ug/l  
RT: 13.83 min Scan# 2173  
Delta R.T. -0.01 min  
Lab File: VX003697.D  
Acq: 27 Jul 2018 04:40

Tgt Ion:128 Resp: 24961  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.4 15.6  
129 11.7 8.7 13.1

