

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123119\  
 Data File : VX014386.D  
 Acq On : 31 Dec 2019 17:37  
 Operator : JC/SP  
 Sample : K6462-03ME 5X  
 Misc : 5.04g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 K500-3ME

Quant Time: Jan 02 12:08:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 509772   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 777682   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 722924   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 381968   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 274232   | 47.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.94%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 222694   | 47.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.22%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 941582   | 51.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.32% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 358601   | 53.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.60% |          |

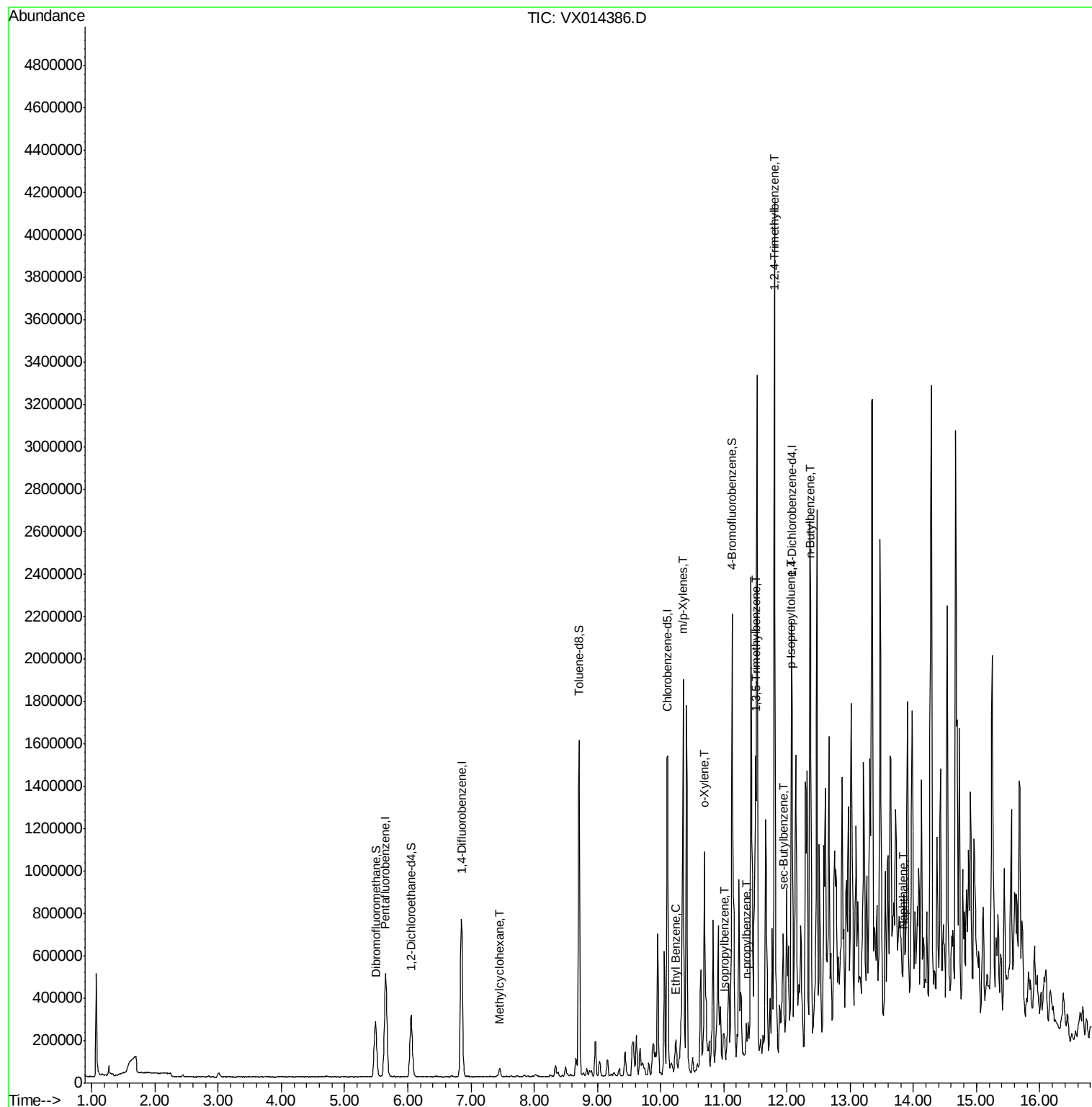
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 39) Methylcyclohexane      | 7.45  | 83   | 17306    | 1.964  | ug/l   | 94     |
| 67) Ethyl Benzene          | 10.25 | 91   | 43428    | 1.643  | ug/l   | 95     |
| 68) m/p-Xylenes            | 10.35 | 106  | 424127   | 41.728 | ug/l   | 99     |
| 69) o-Xylene               | 10.70 | 106  | 223581   | 22.429 | ug/l   | 100    |
| 73) Isopropylbenzene       | 11.01 | 105  | 33113    | 1.231  | ug/l   | 100    |
| 78) n-propylbenzene        | 11.35 | 91   | 104100   | 3.451  | ug/l   | 100    |
| 80) 1,3,5-Trimethylbenzene | 11.50 | 105  | 523625   | 23.135 | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105  | 1694977  | 74.780 | ug/l   | 99     |
| 85) sec-Butylbenzene       | 11.94 | 105  | 88551    | 3.405  | ug/l   | 81     |
| 86) p-Isopropyltoluene     | 12.06 | 119  | 59044    | 2.482  | ug/l   | 99     |
| 89) n-Butylbenzene         | 12.38 | 91   | 250463   | 12.341 | ug/l # | 22     |
| 95) Naphthalene            | 13.83 | 128  | 116368   | 4.668  | ug/l # | 88     |

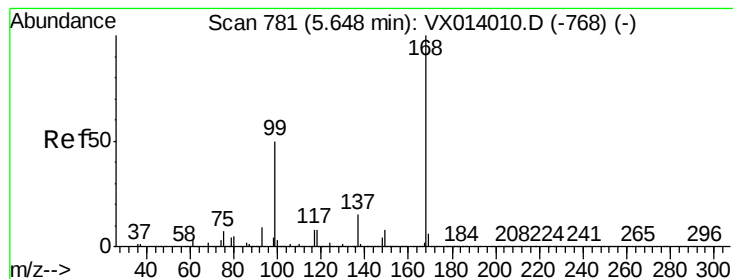
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
K500-3ME

Quant Time: Jan 02 12:08:49 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

Instrument :

MSVOA\_X

ClientSampleId :

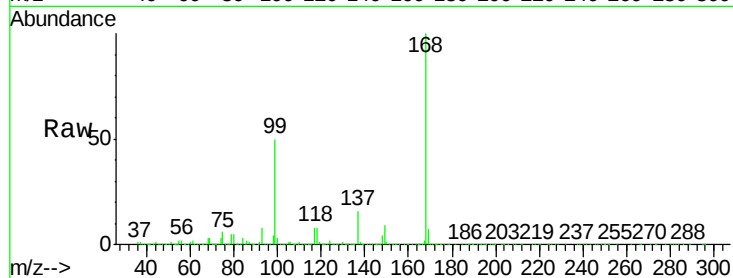
K500-3ME

Tot Ion:168 Resp: 509772

Ion Ratio Lower Upper

168 100

99 49.9 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

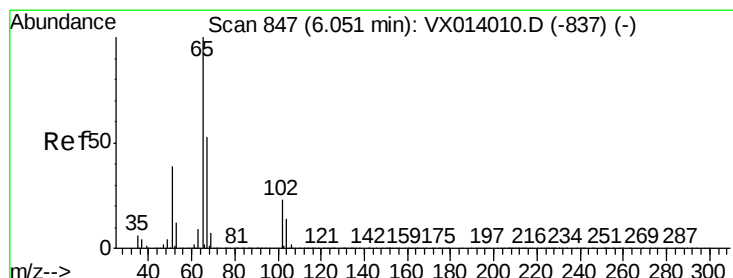
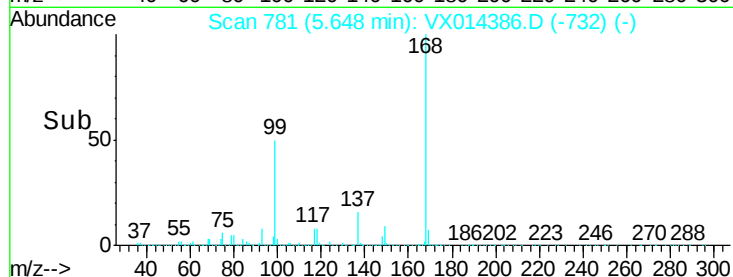
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 47.465 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014386.D

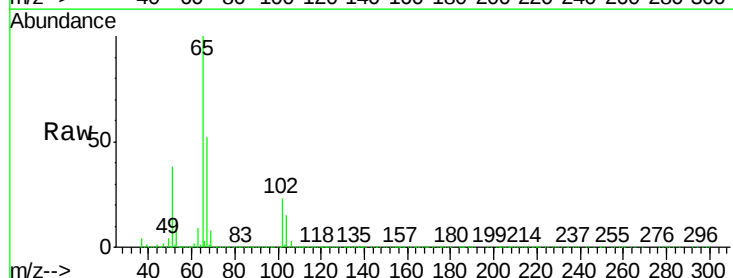
Acq: 31 Dec 2019 17:37

Tgt Ion: 65 Resp: 274232

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

120000

100000

80000

60000

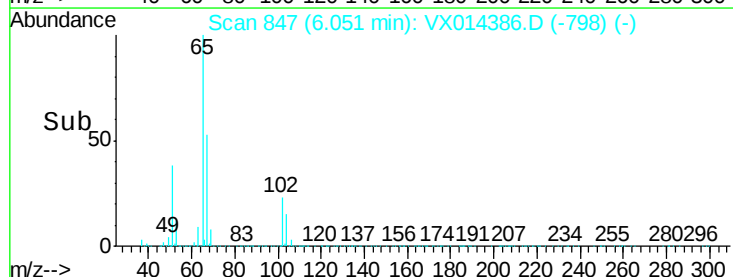
40000

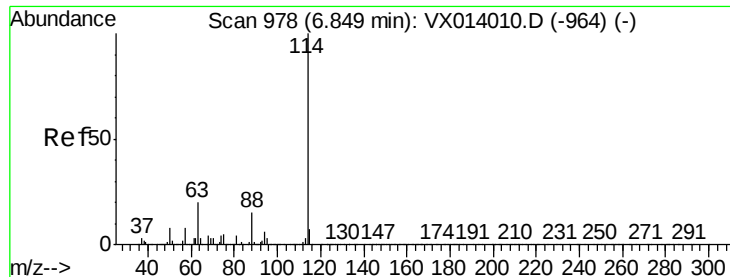
20000

0

Time-->

5.90 6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

Instrument :

MSVOA\_X

ClientSampleId :

K500-3ME

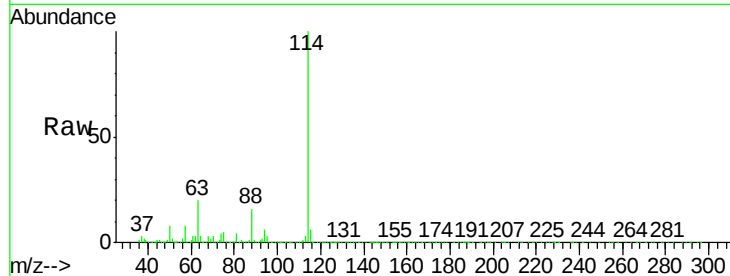
Tot Ion:114 Resp: 777682

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

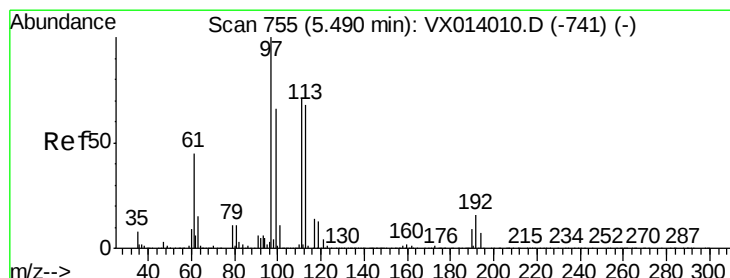
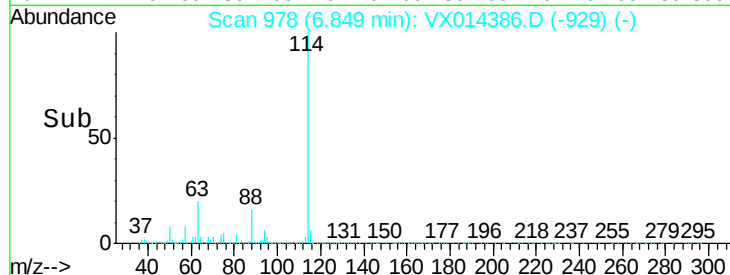
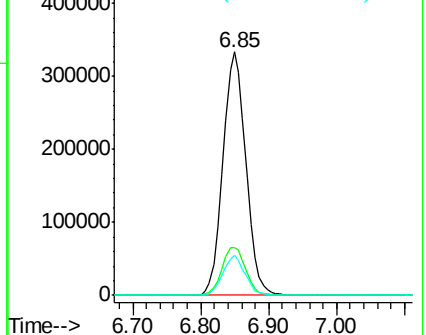
88 16.3 0.0 30.4



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: 47.107 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

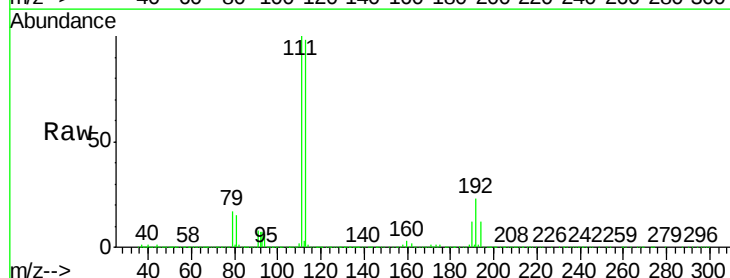
Tgt Ion:113 Resp: 222694

Ion Ratio Lower Upper

113 100

111 103.3 82.0 123.0

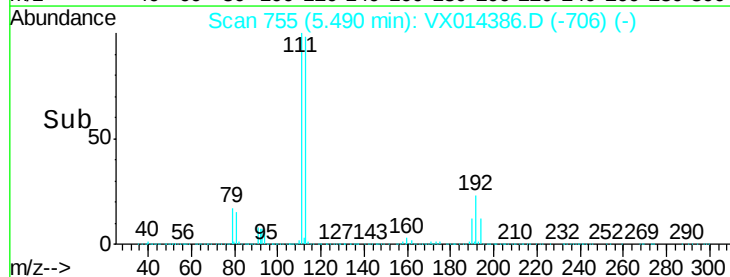
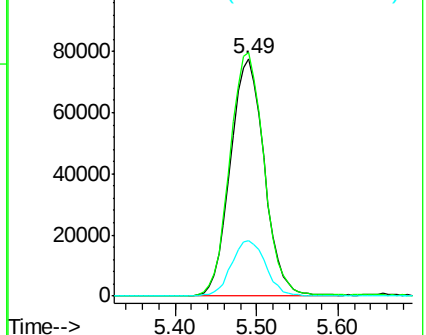
192 23.6 19.3 28.9

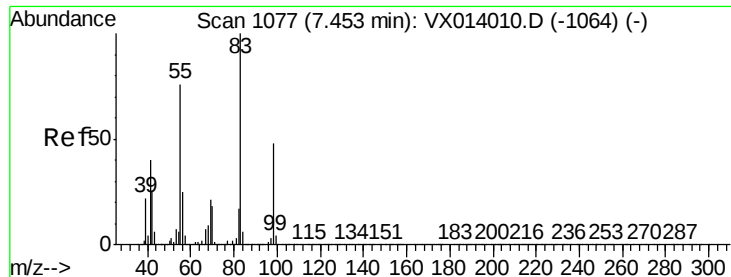


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

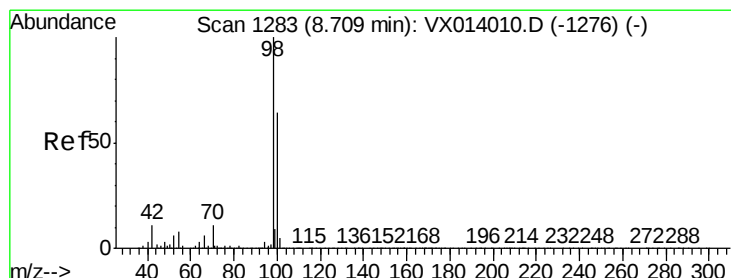
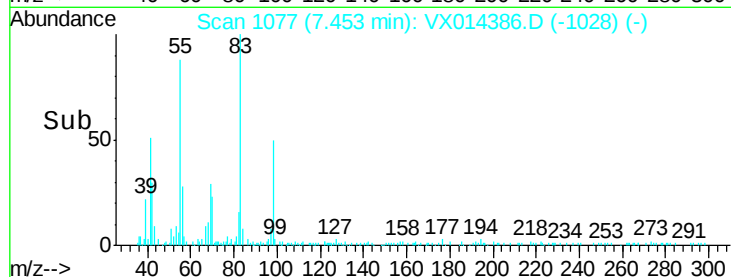
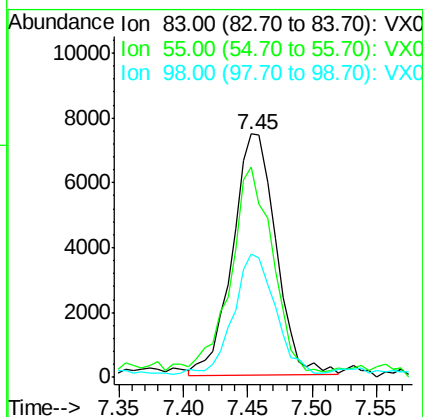
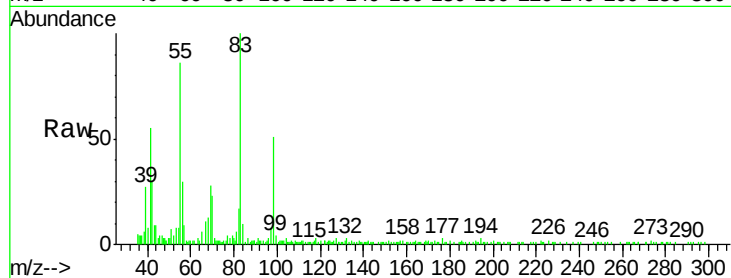




#39  
Methvlcvclohexane  
Concen: 1.964 ug/l  
RT: 7.45 min Scan# 1077  
Delta R.T. 0.00 min  
Lab File: VX014386.D  
Acq: 31 Dec 2019 17:37

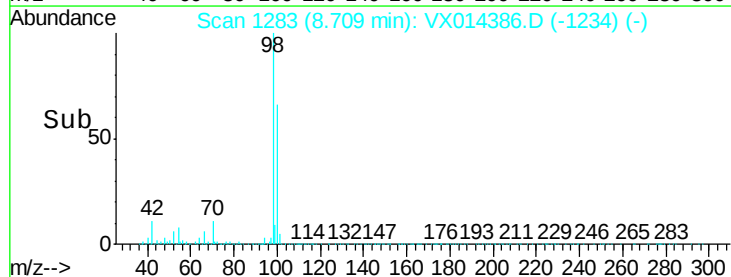
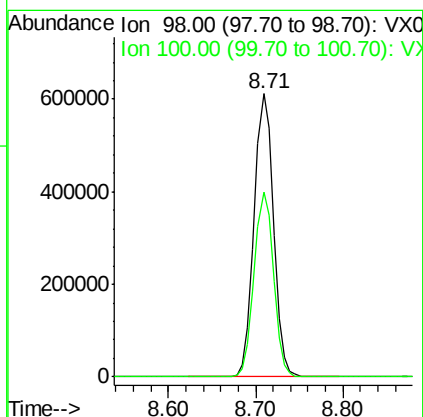
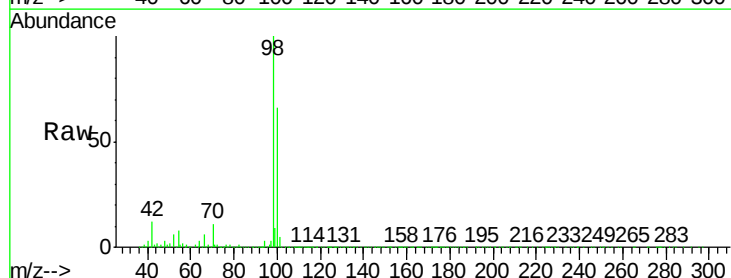
Instrument :  
MSVOA\_X  
ClientSampleId :  
K500-3ME

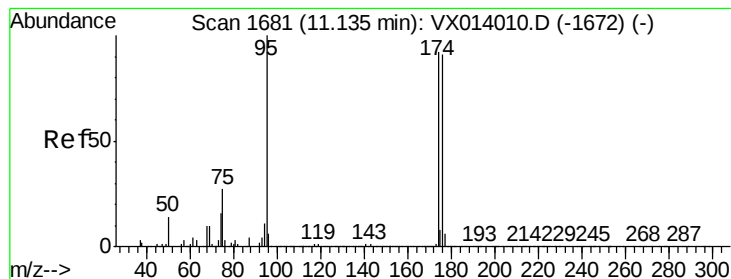
| Tot Ion   | 83.00 | Resp  | 17306 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 84.0  | 61.0  | 91.6  |
| 98        | 48.5  | 38.6  | 57.8  |



#50  
Toluene-d8  
Concen: 51.159 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX014386.D  
Acq: 31 Dec 2019 17:37

| Tgt Ion   | 98    | Resp  | 941582 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 65.3  | 52.9  | 79.3   |





#62

4-Bromofluorobenzene

Concen: 53.301 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

Instrument :

MSVOA\_X

ClientSampleId :

K500-3ME

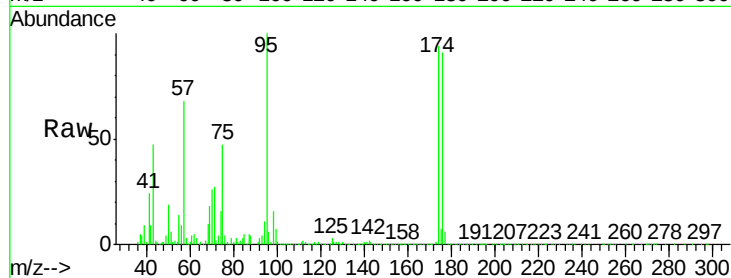
Tot Ion: 95 Resp: 358601

Ion Ratio Lower Upper

95 100

174 89.1 0.0 175.8

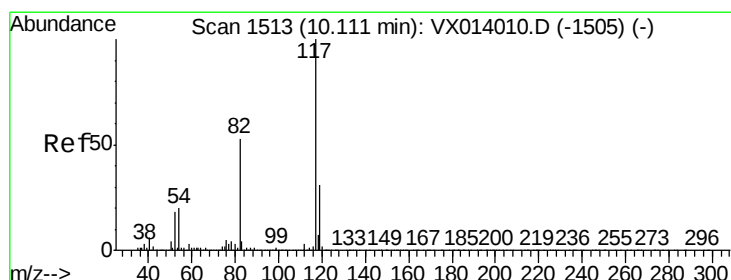
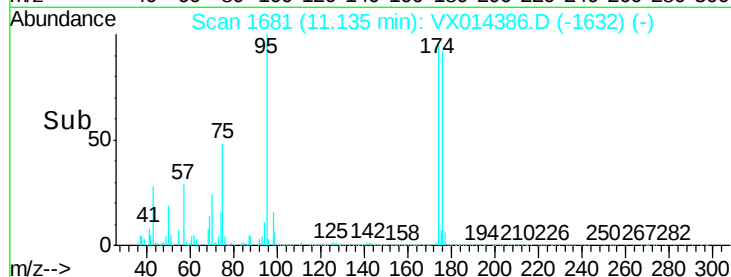
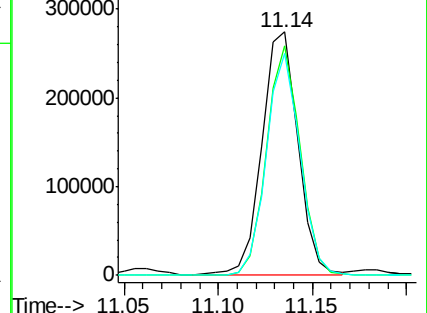
176 86.7 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX014010.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX014010.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX014010.D (-1672) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

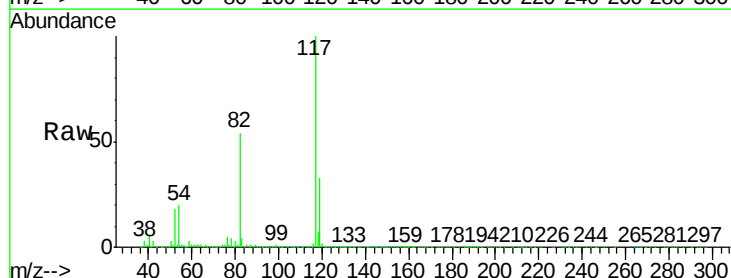
Tgt Ion: 117 Resp: 722924

Ion Ratio Lower Upper

117 100

82 53.5 42.2 63.4

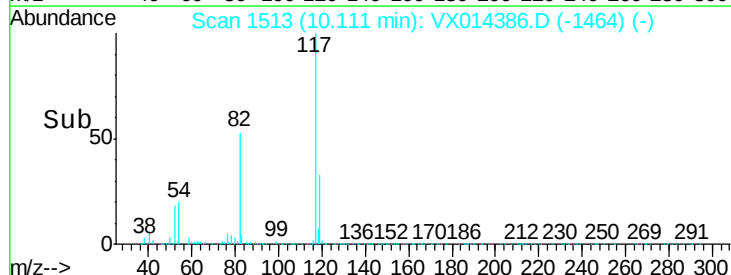
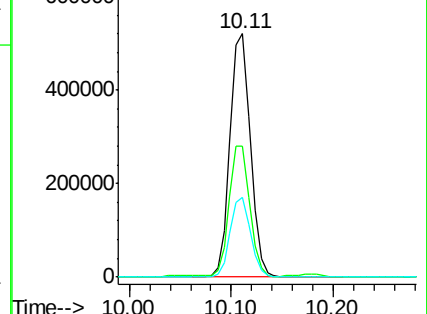
119 32.6 25.1 37.7

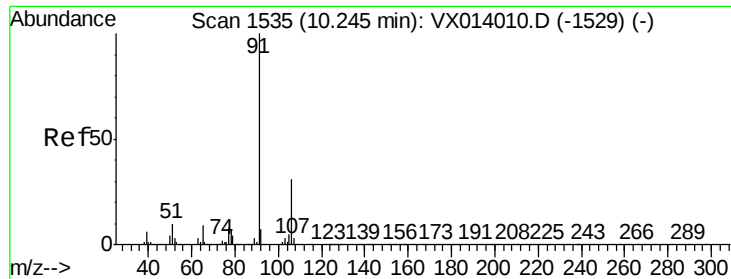


Abundance Ion 116.90 (116.60 to 117.60): VX014010.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX014010.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX014010.D (-1505) (-)





#67

Ethyl Benzene

Concen: 1.643 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

Instrument :

MSVOA\_X

ClientSampleId :

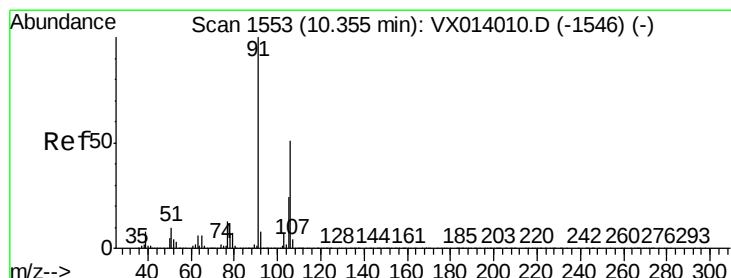
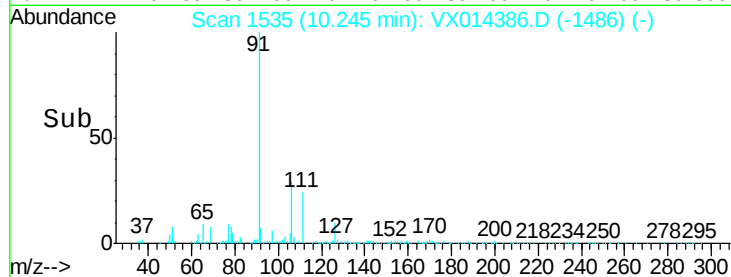
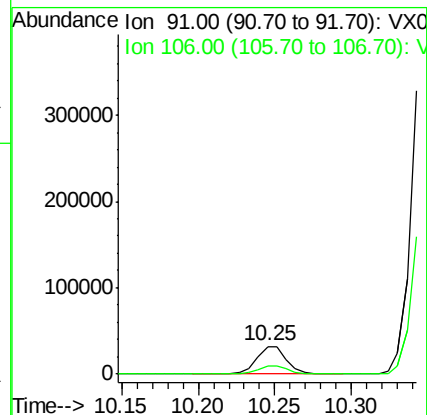
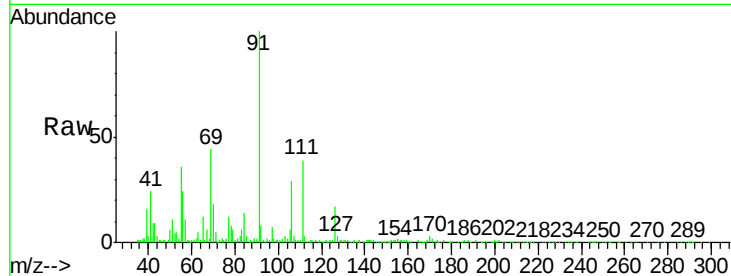
K500-3ME

Tot Ion: 91 Resp: 43428

Ion Ratio Lower Upper

91 100

106 28.7 25.0 37.6



#68

m/p-Xylenes

Concen: 41.728 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014386.D

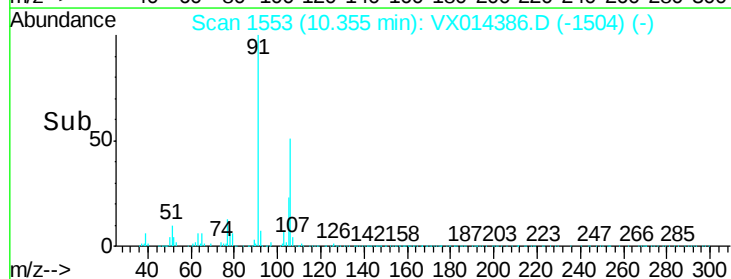
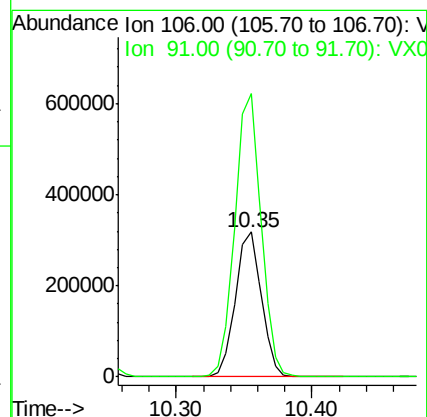
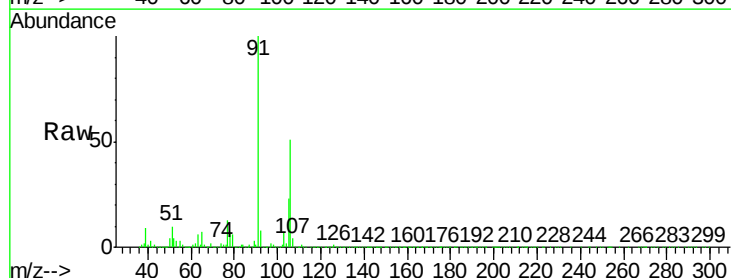
Acq: 31 Dec 2019 17:37

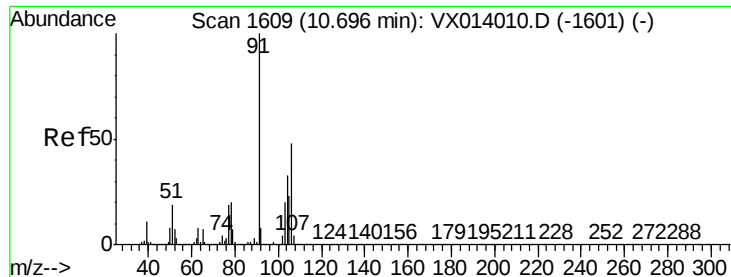
Tgt Ion: 106 Resp: 424127

Ion Ratio Lower Upper

106 100

91 197.0 158.6 238.0

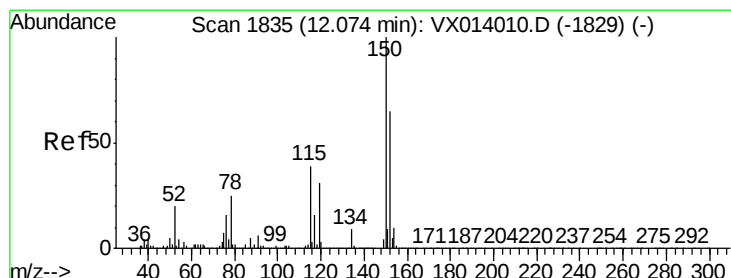
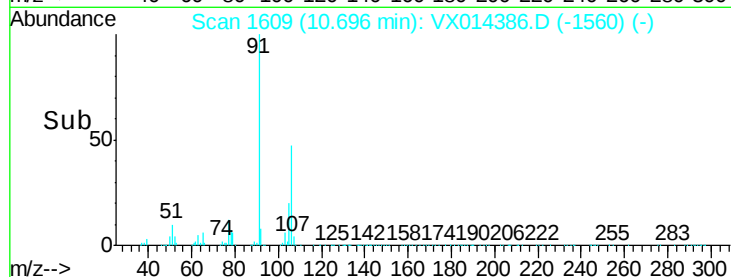
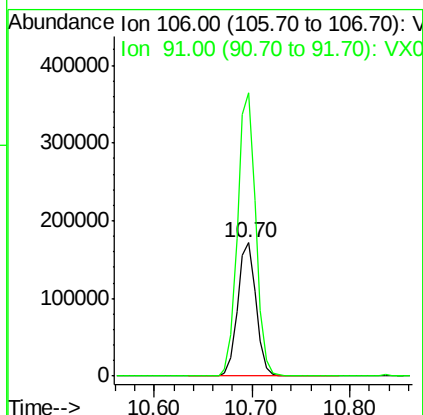
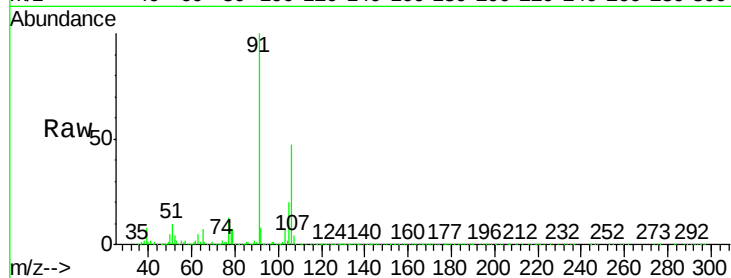




#69  
o-Xylene  
Concen: 22.429 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX014386.D  
Acq: 31 Dec 2019 17:37

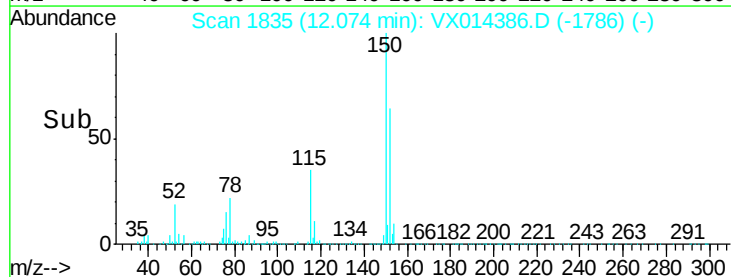
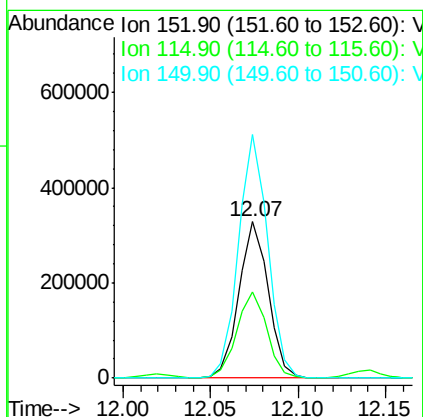
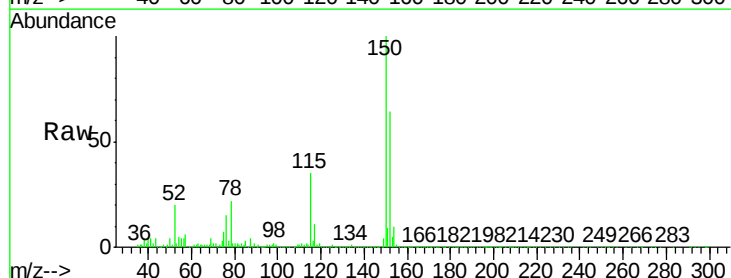
Instrument :  
MSVOA\_X  
ClientSampleId :  
K500-3ME

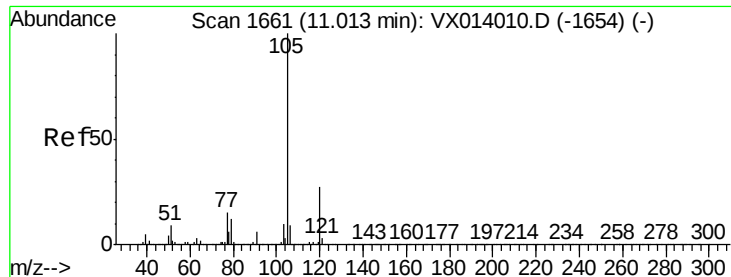
Tot Ion:106 Resp: 223581  
Ion Ratio Lower Upper  
106 100  
91 208.9 104.2 312.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014386.D  
Acq: 31 Dec 2019 17:37

Tgt Ion:152 Resp: 381968  
Ion Ratio Lower Upper  
152 100  
115 56.5 38.3 114.9  
150 155.8 0.0 345.4





#73

Isopropylbenzene

Concen: 1.231 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

Instrument :

MSVOA\_X

ClientSampleId :

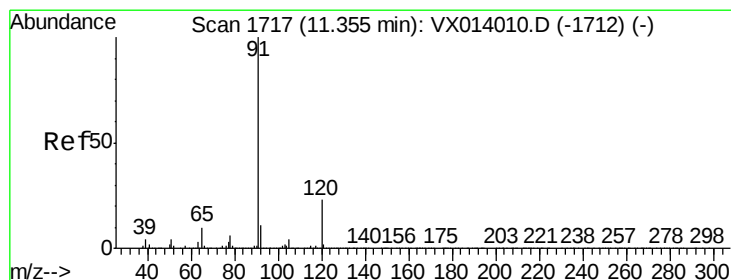
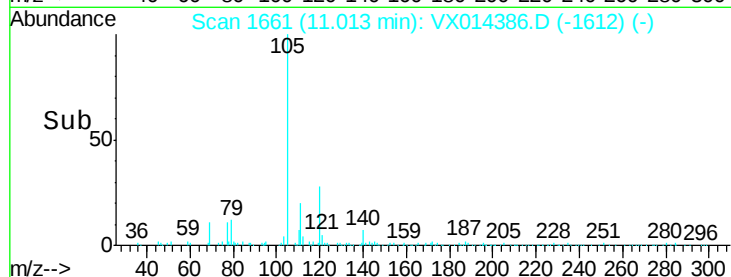
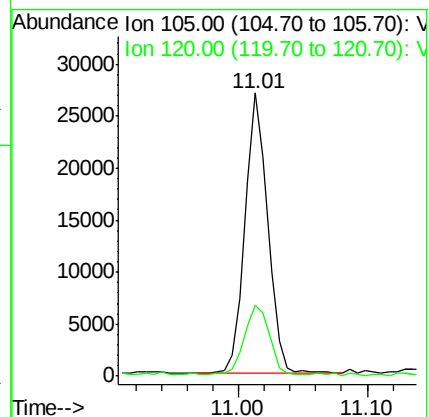
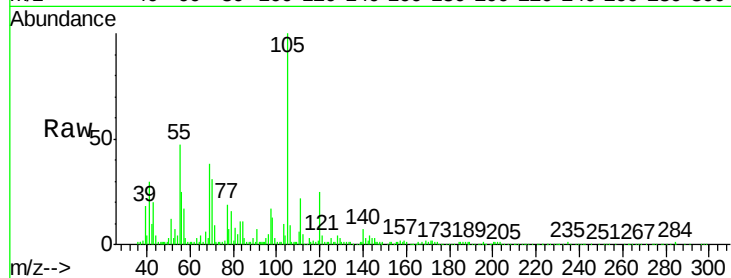
K500-3ME

Tot Ion: 105 Resp: 33113

Ion Ratio Lower Upper

105 100

120 26.7 13.5 40.4



#78

n-propylbenzene

Concen: 3.451 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX014386.D

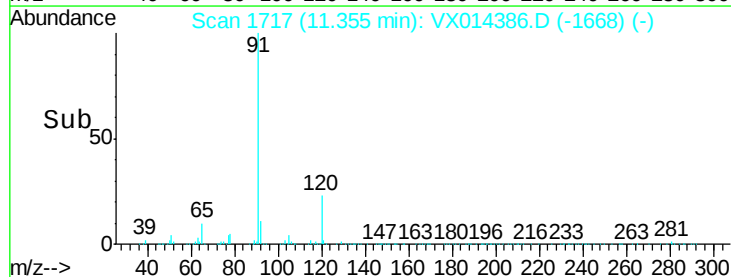
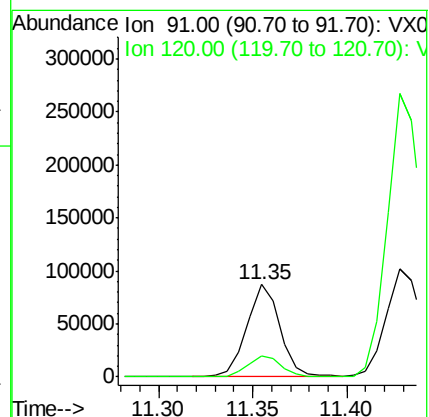
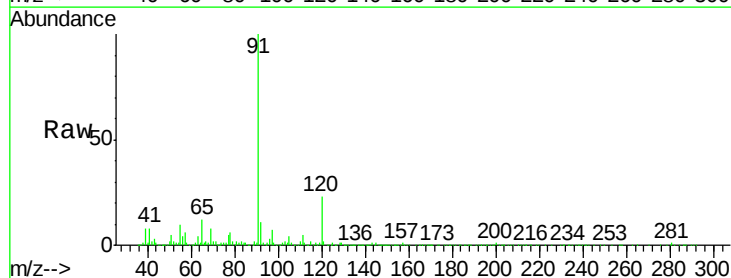
Acq: 31 Dec 2019 17:37

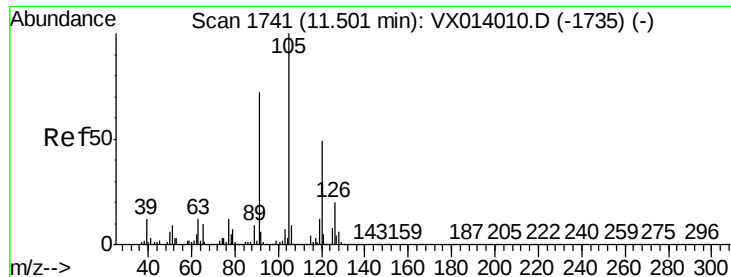
Tgt Ion: 91 Resp: 104100

Ion Ratio Lower Upper

91 100

120 23.5 11.7 35.0

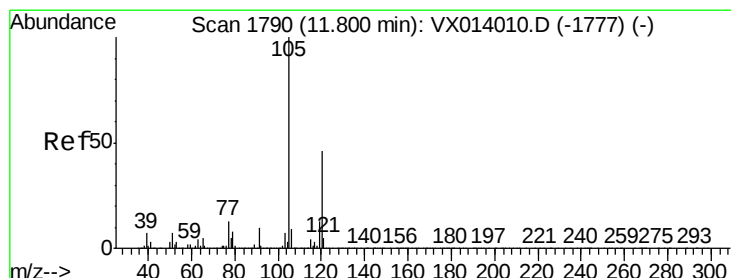
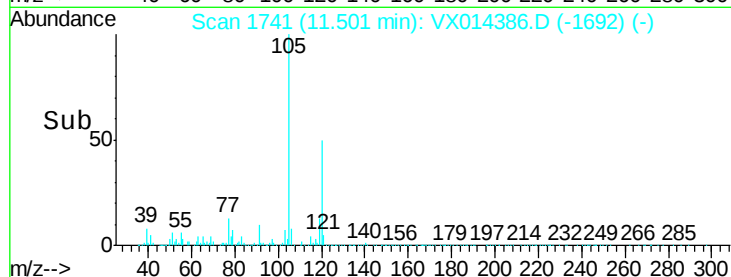
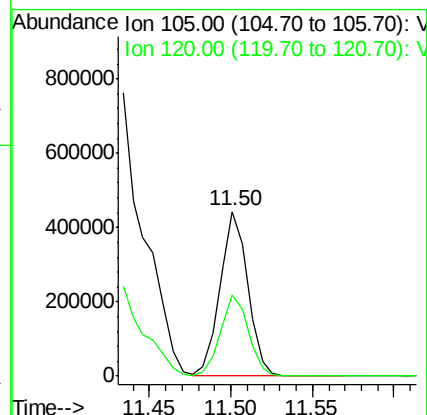
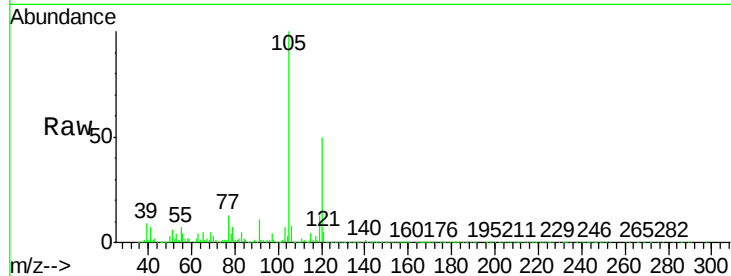




#80  
 1,3,5-Trimethylbenzene  
 Concen: 23.135 ug/l  
 RT: 11.50 min Scan# 1741  
 Delta R.T. 0.00 min  
 Lab File: VX014386.D  
 Acq: 31 Dec 2019 17:37

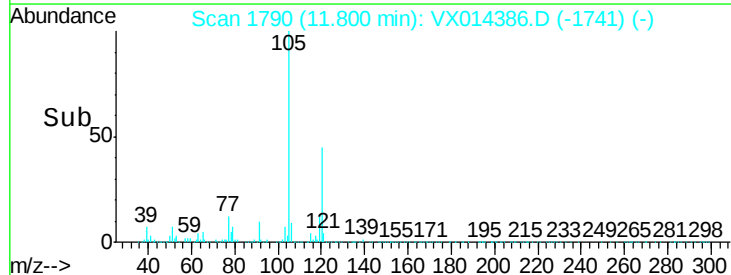
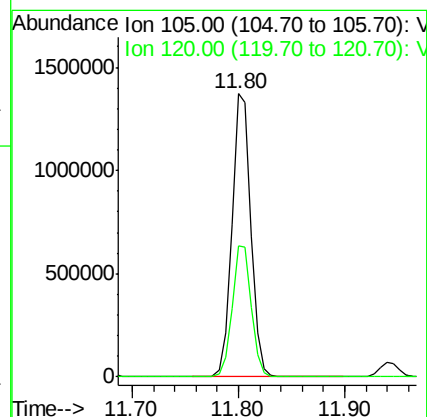
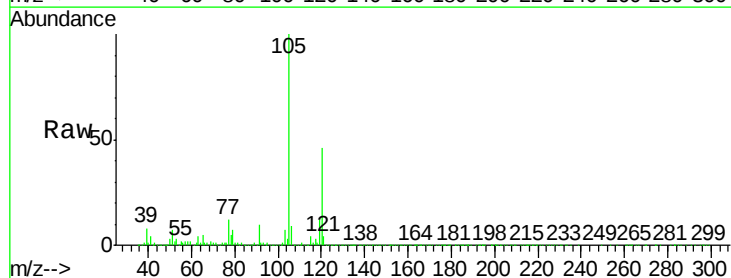
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 K500-3ME

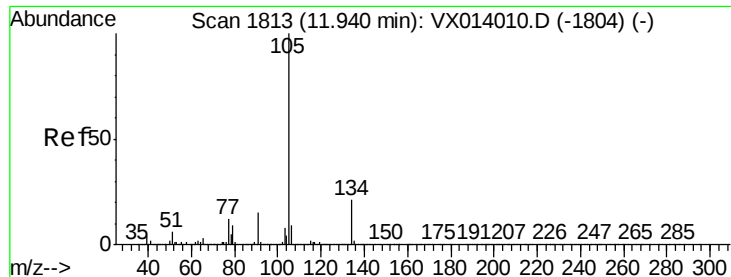
Tot Ion:105 Resp: 523625  
 Ion Ratio Lower Upper  
 105 100  
 120 49.7 25.3 75.8



#84  
 1,2,4-Trimethylbenzene  
 Concen: 74.780 ug/l  
 RT: 11.80 min Scan# 1790  
 Delta R.T. 0.00 min  
 Lab File: VX014386.D  
 Acq: 31 Dec 2019 17:37

Tgt Ion:105 Resp: 1694977  
 Ion Ratio Lower Upper  
 105 100  
 120 46.9 23.1 69.2

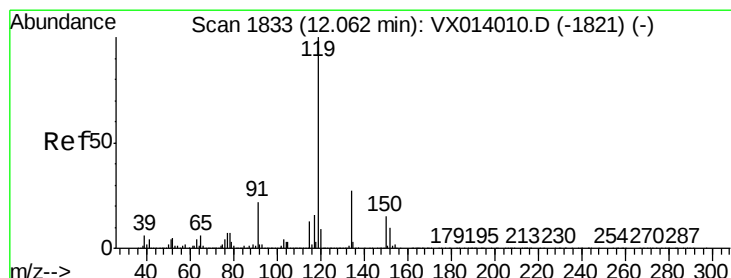
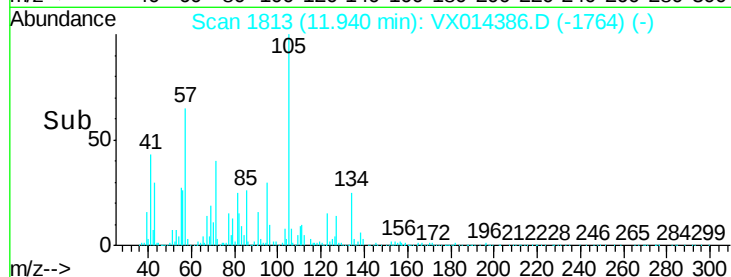
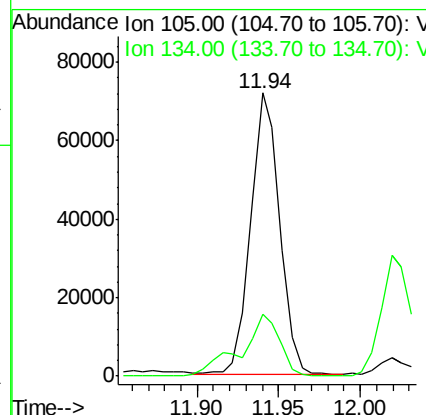
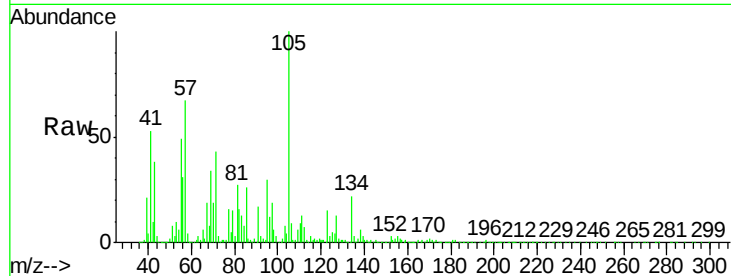




#85  
 sec-Butylbenzene  
 Concen: 3.405 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX014386.D  
 Acq: 31 Dec 2019 17:37

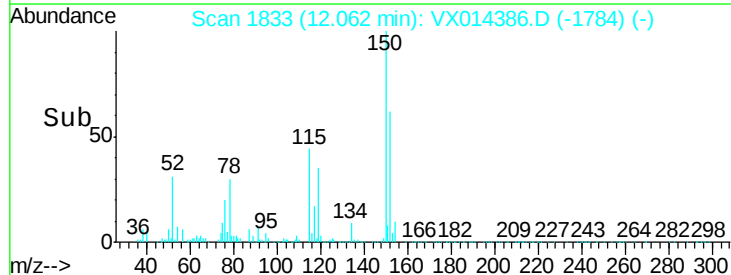
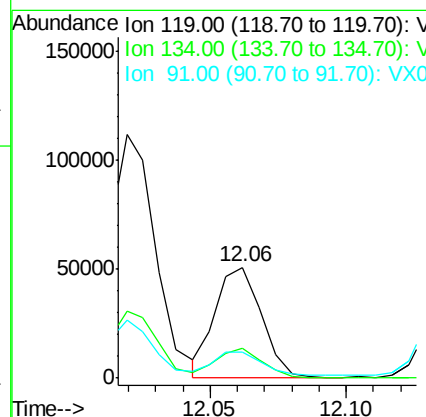
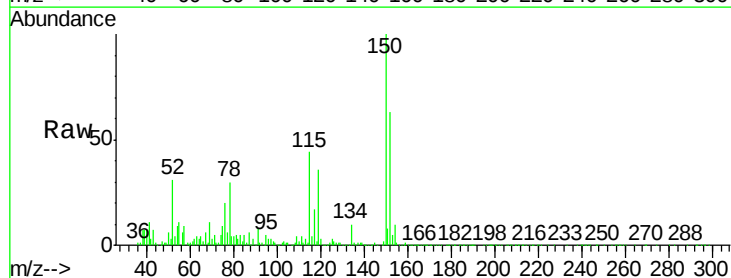
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 K500-3ME

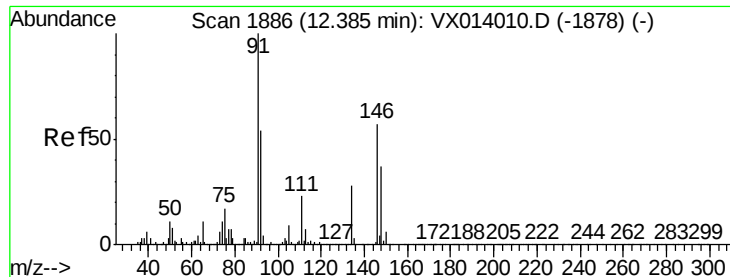
Tot Ion:105 Resp: 88551  
 Ion Ratio Lower Upper  
 105 100  
 134 29.5 10.4 31.1



#86  
 p-Isopropyltoluene  
 Concen: 2.482 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. 0.00 min  
 Lab File: VX014386.D  
 Acq: 31 Dec 2019 17:37

Tgt Ion:119 Resp: 59044  
 Ion Ratio Lower Upper  
 119 100  
 134 27.0 13.4 40.1  
 91 22.3 11.4 34.1





#89

n-Butylbenzene

Concen: 12.341 ug/l

RT: 12.38 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

Instrument :

MSVOA\_X

ClientSampleId :

K500-3ME

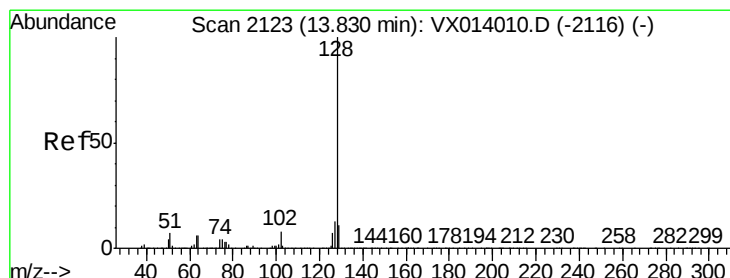
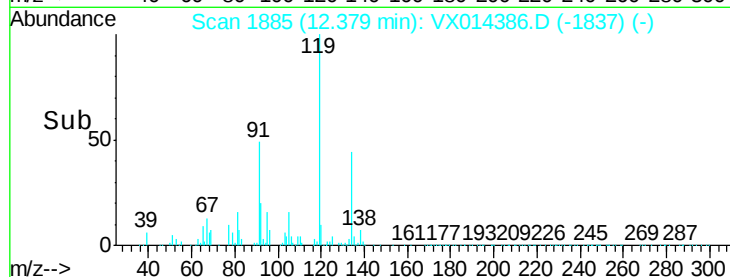
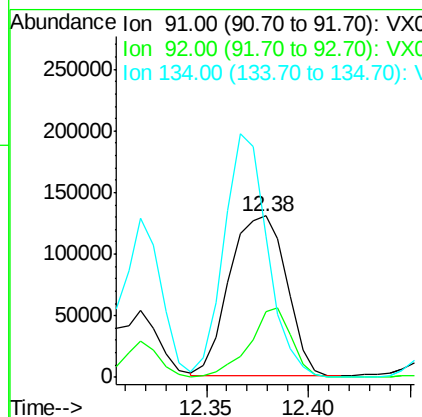
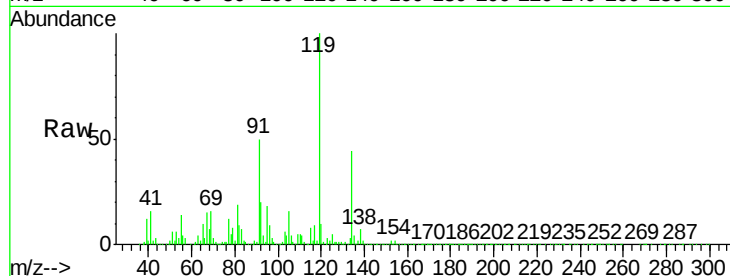
Tot Ion: 91 Resp: 250463

Ion Ratio Lower Upper

91 100

92 32.1 27.2 81.6

134 116.2 13.4 40.1#



#95

Naphthalene

Concen: 4.668 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014386.D

Acq: 31 Dec 2019 17:37

Tgt Ion: 128 Resp: 116368

Ion Ratio Lower Upper

128 100

127 14.4 10.2 15.4

129 19.0 8.7 13.1#

