

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX112019\  
 Data File : VX013475.D  
 Acq On : 20 Nov 2019 14:25  
 Operator : JC/SP  
 Sample : K5958-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-2

Quant Time: Nov 27 06:15:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 710659   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1161898  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1056694  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 504710   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 416891   | 49.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.04%  |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 352227   | 48.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.66%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 1399217  | 50.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.86% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 508818   | 51.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.64% |      |

## Target Compounds

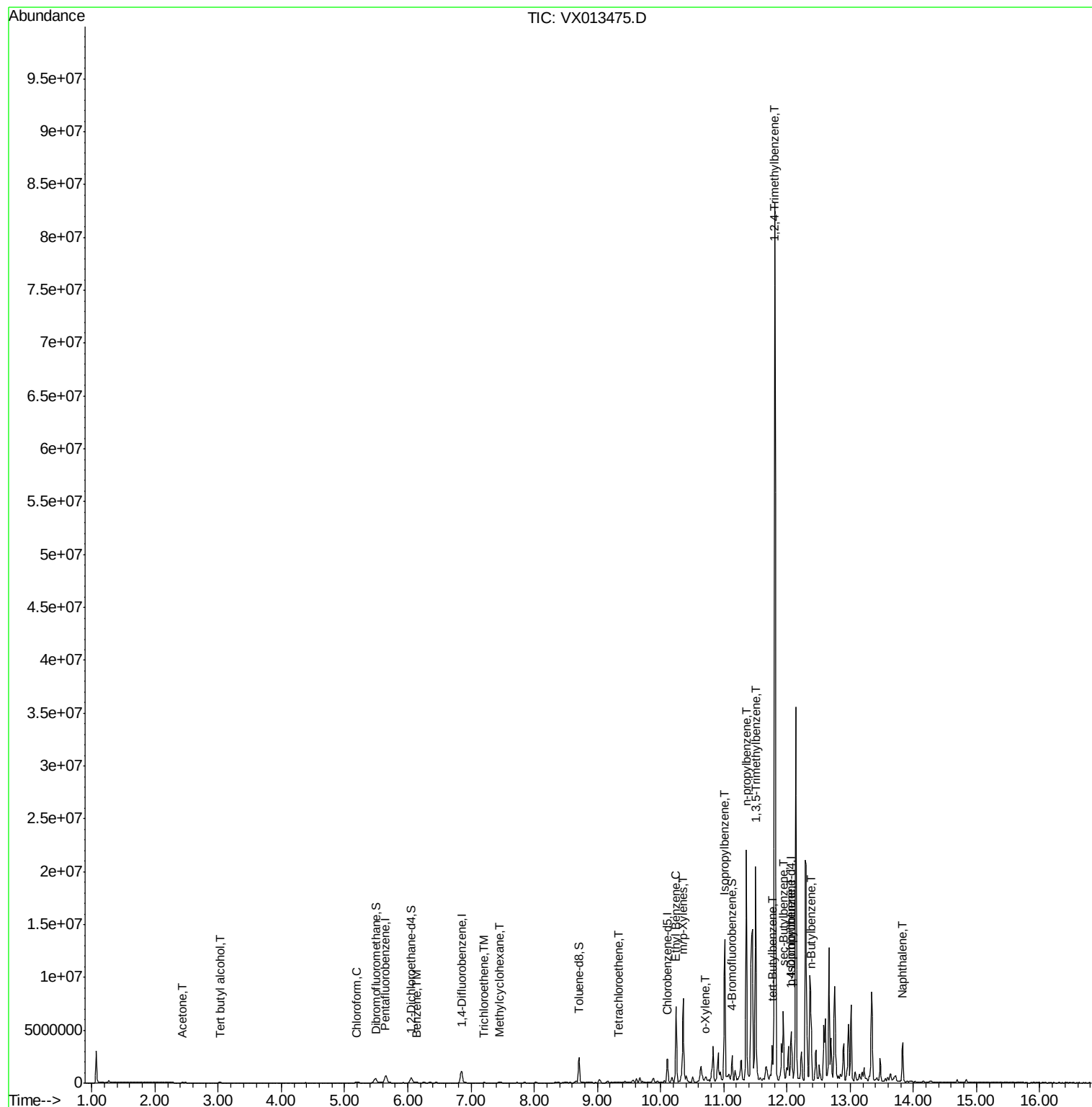
|                            |       |     |          |         |        | Qvalue |
|----------------------------|-------|-----|----------|---------|--------|--------|
| 11) Tert butyl alcohol     | 3.03  | 59  | 35991    | 16.219  | ug/l # | 88     |
| 16) Acetone                | 2.43  | 43  | 16244    | 3.868   | ug/l   | 93     |
| 30) Chloroform             | 5.20  | 83  | 49805    | 3.943   | ug/l   | 92     |
| 39) Methylcyclohexane      | 7.46  | 83  | 42523    | 3.424   | ug/l   | 97     |
| 40) Benzene                | 6.14  | 78  | 15893    | 0.512   | ug/l # | 85     |
| 44) Trichloroethene        | 7.22  | 130 | 5093     | 0.596   | ug/l   | 95     |
| 64) Tetrachloroethene      | 9.33  | 164 | 12312    | 1.628   | ug/l   | 96     |
| 67) Ethyl Benzene          | 10.25 | 91  | 3973983  | 107.631 | ug/l   | 99     |
| 68) m/p-Xylenes            | 10.35 | 106 | 1671869  | 119.729 | ug/l   | 99     |
| 69) o-Xylene               | 10.70 | 106 | 19257    | 1.409   | ug/l   | 97     |
| 73) Isopropylbenzene       | 11.01 | 105 | 6803703  | 203.320 | ug/l   | 98     |
| 78) n-propylbenzene        | 11.35 | 91  | 12103351 | 324.697 | ug/l   | 90     |
| 80) 1,3,5-Trimethylbenzene | 11.50 | 105 | 8523760  | 305.808 | ug/l   | 95     |
| 83) tert-Butylbenzene      | 11.77 | 119 | 648352   | 23.107  | ug/l   | 86     |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105 | 18386612 | 657.590 | ug/l # | 43     |
| 85) sec-Butylbenzene       | 11.94 | 105 | 3280967  | 101.745 | ug/l # | 75     |
| 86) p-Isopropyltoluene     | 12.06 | 119 | 1665677  | 56.095  | ug/l   | 99     |
| 89) n-Butylbenzene         | 12.39 | 91  | 2256307  | 87.082  | ug/l # | 57     |
| 95) Naphthalene            | 13.83 | 128 | 2231594  | 64.150  | ug/l   | 99     |

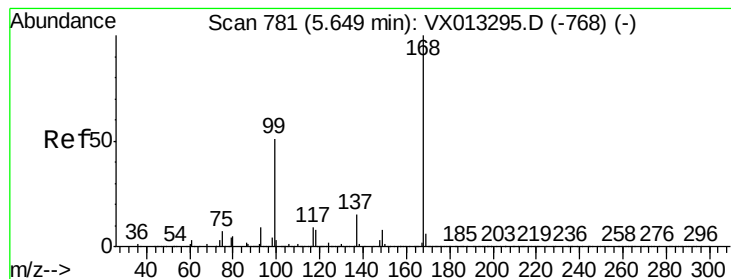
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX112019\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-2

Quant Time: Nov 27 06:15:21 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 02 07:06:38 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

Instrument :

MSVOA\_X

ClientSampleId :

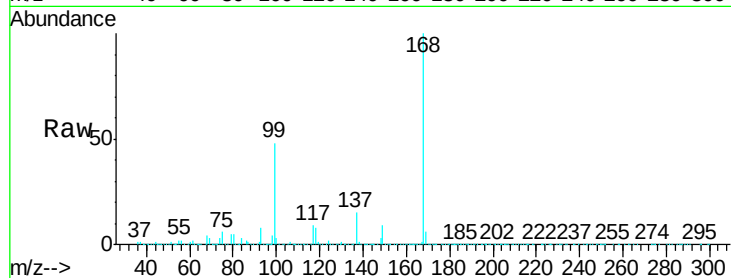
MW-2

Tgt Ion:168 Resp: 710659

Ion Ratio Lower Upper

168 100

99 48.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

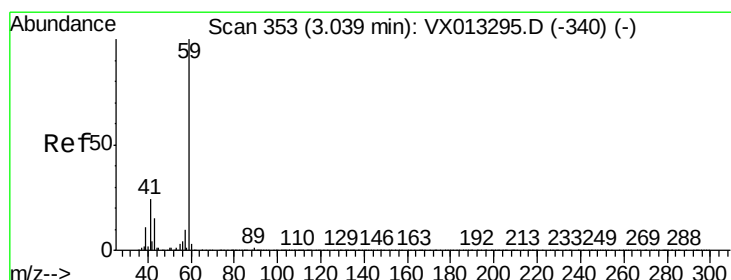
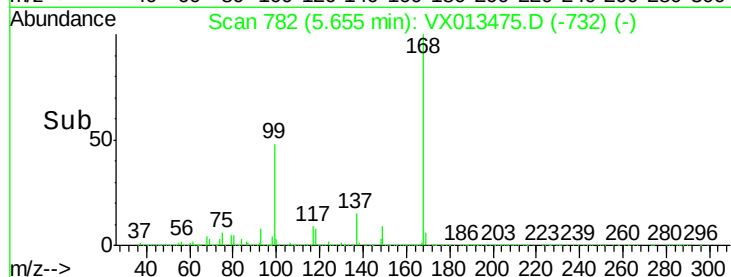
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#11

Tert butyl alcohol

Concen: 16.219 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013475.D

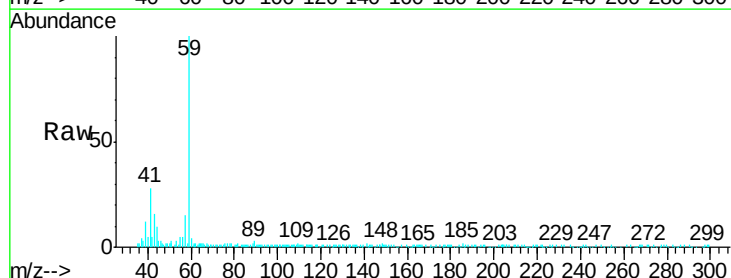
Acq: 20 Nov 2019 14:25

Tgt Ion: 59 Resp: 35991

Ion Ratio Lower Upper

59 100

57 14.3 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

15000

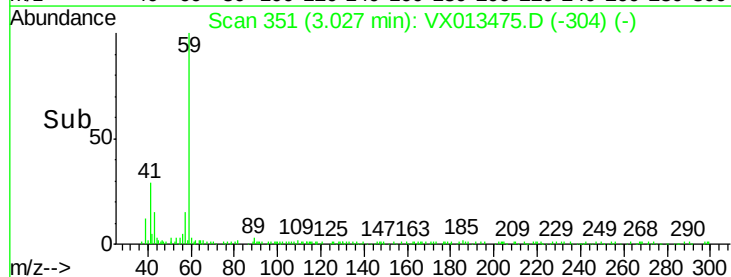
10000

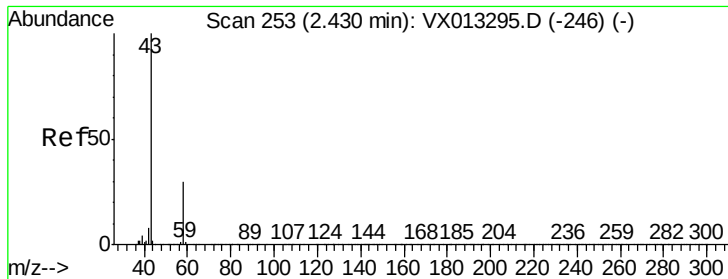
5000

0

2.95 3.00 3.05 3.10

Time-->

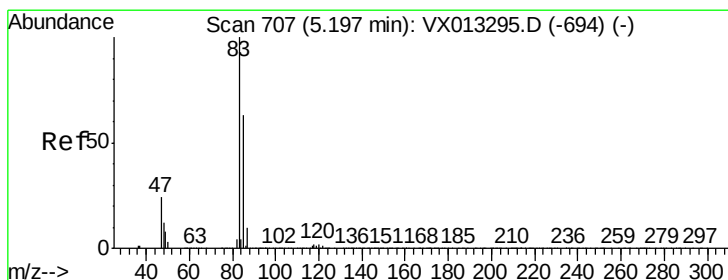
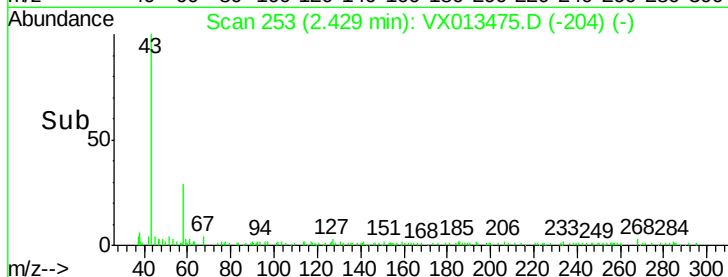
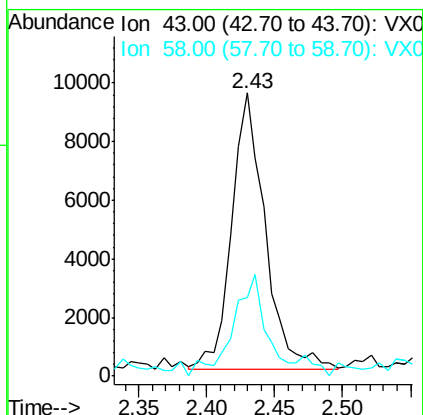
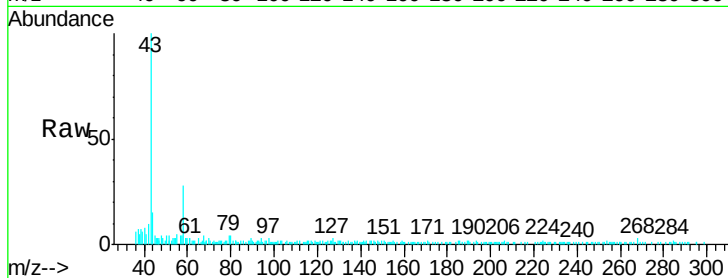




#16  
Acetone  
Concen: 3.868 ug/l  
RT: 2.43 min Scan# 253  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

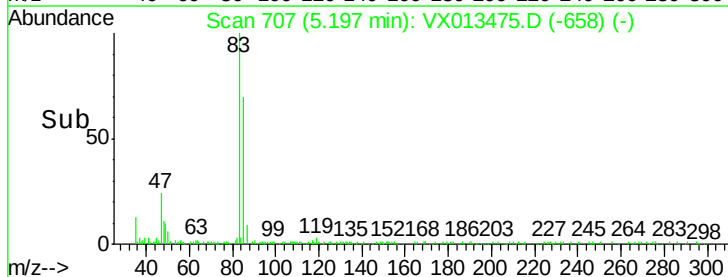
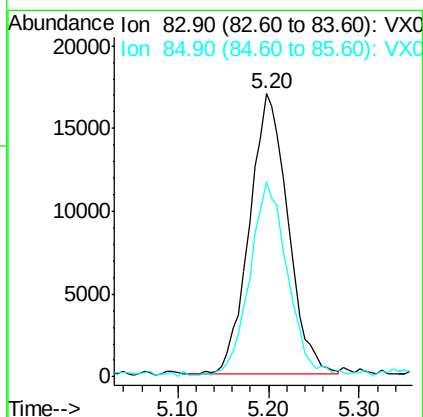
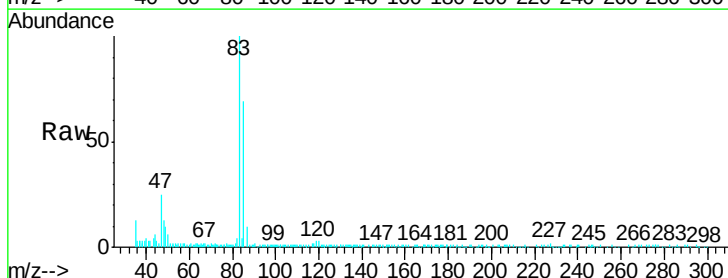
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-2

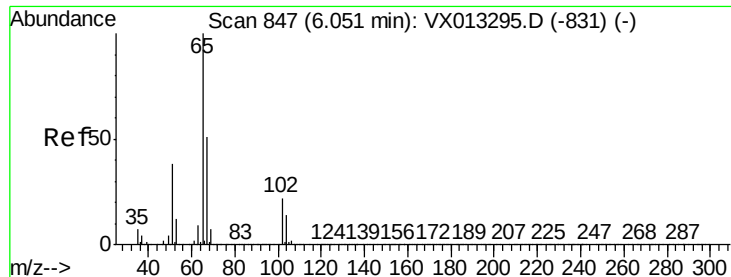
Tgt Ion: 43 Resp: 16244  
Ion Ratio Lower Upper  
43 100  
58 26.7 24.3 36.5



#30  
Chloroform  
Concen: 3.943 ug/l  
RT: 5.20 min Scan# 707  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

Tgt Ion: 83 Resp: 49805  
Ion Ratio Lower Upper  
83 100  
85 69.0 50.2 75.4

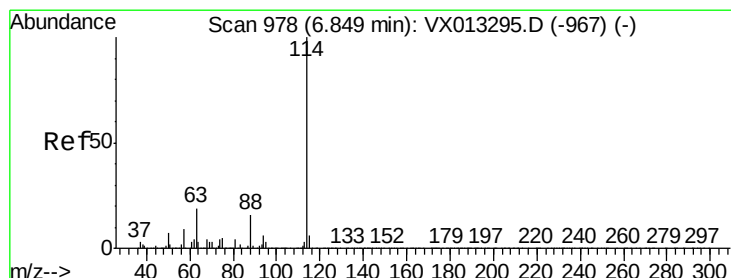
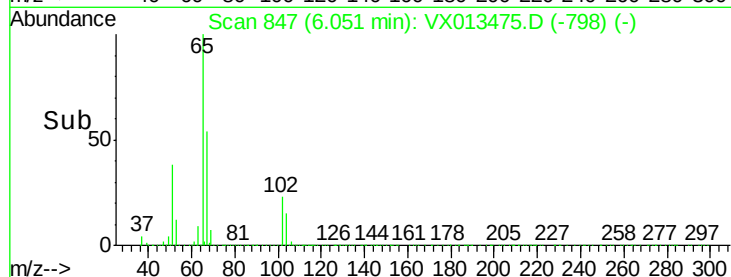
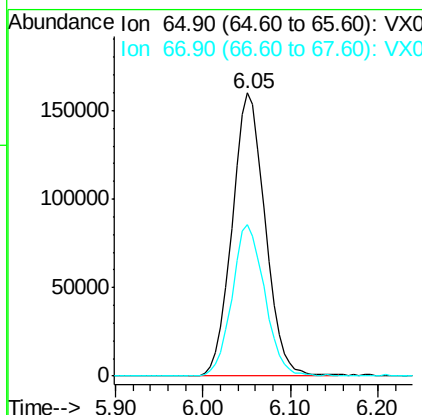
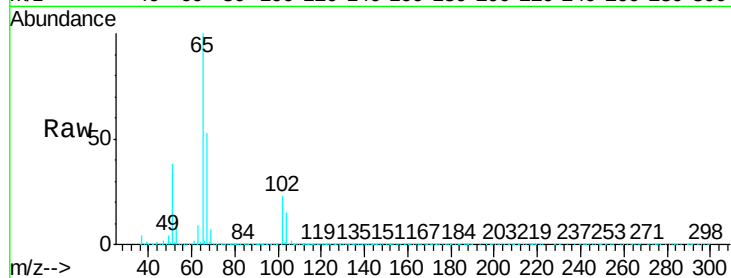




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.517 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. -0.00 min  
 Lab File: VX013475.D  
 Acq: 20 Nov 2019 14:25

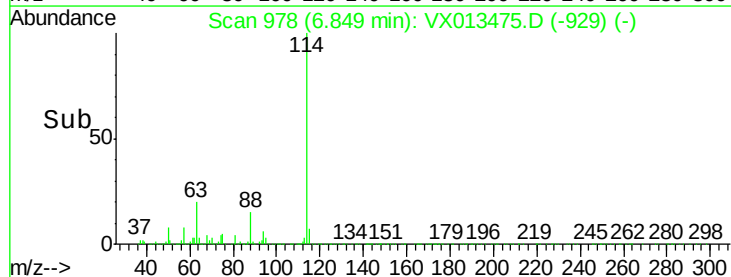
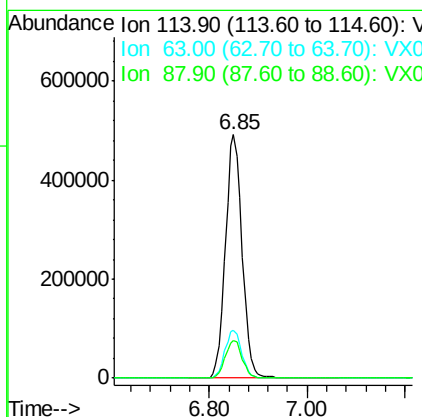
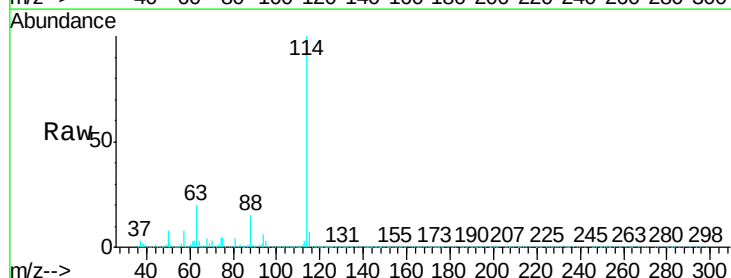
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-2

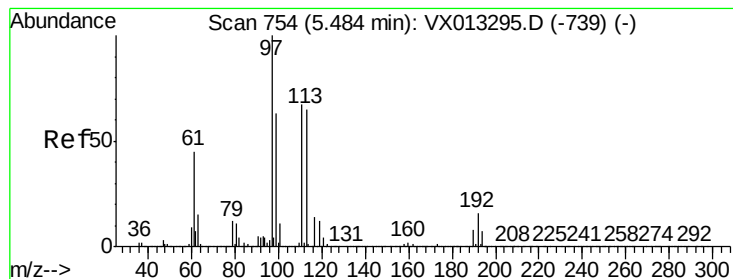
Tgt Ion: 65 Resp: 416891  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 104.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX013475.D  
 Acq: 20 Nov 2019 14:25

Tgt Ion: 114 Resp: 1161898  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 38.4  
 88 15.2 0.0 32.2





#35

Dibromofluoromethane

Concen: 48.333 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

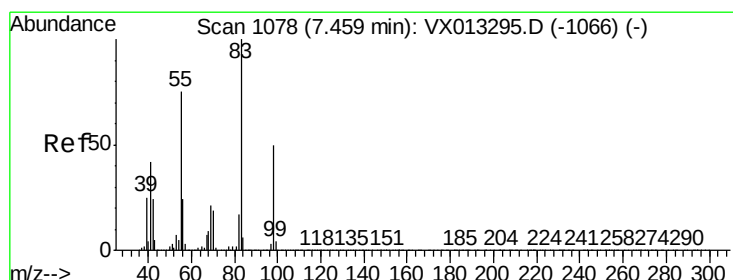
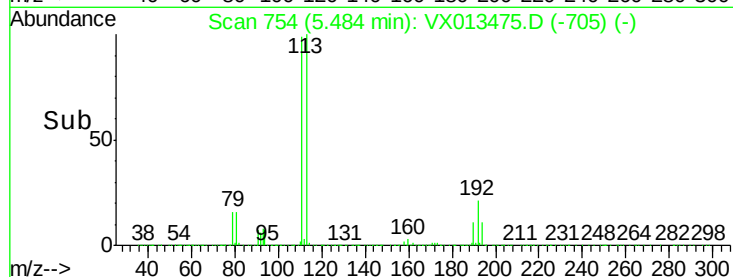
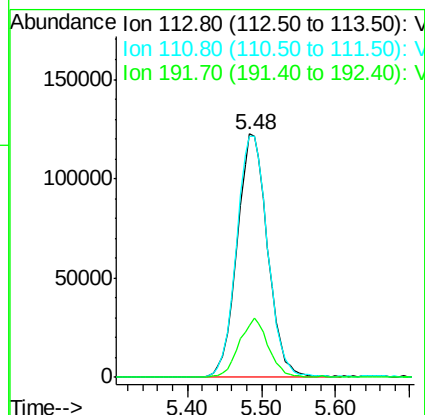
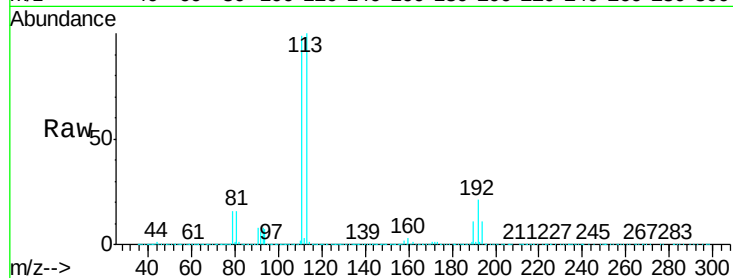
Instrument :

MSVOA\_X

ClientSampleId :

MW-2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 352227 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 101.4 | 81.9  | 122.9  |
| 192      | 23.2  | 19.1  | 28.7   |



#39

Methylcyclohexane

Concen: 3.424 ug/l

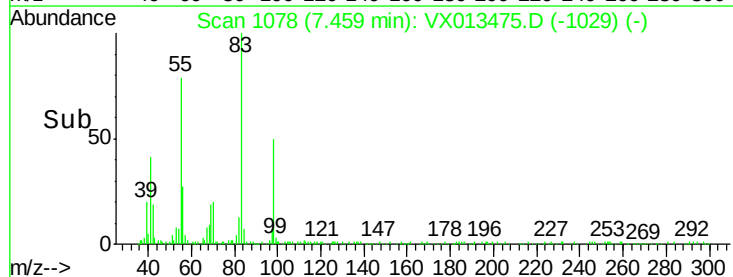
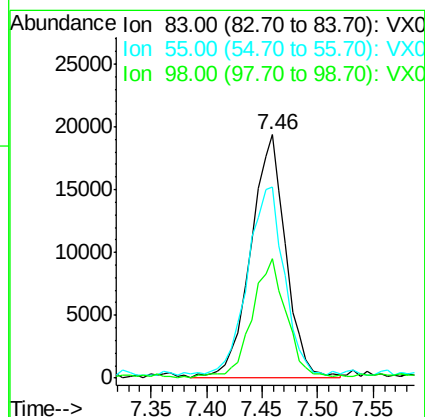
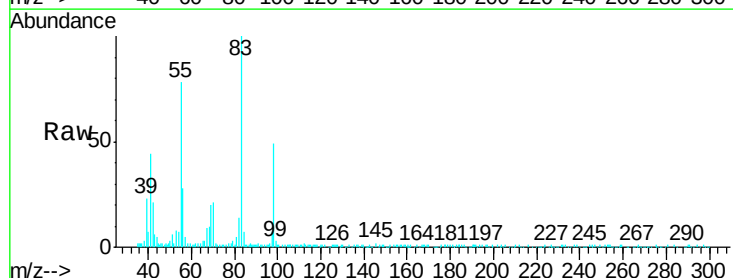
RT: 7.46 min Scan# 1078

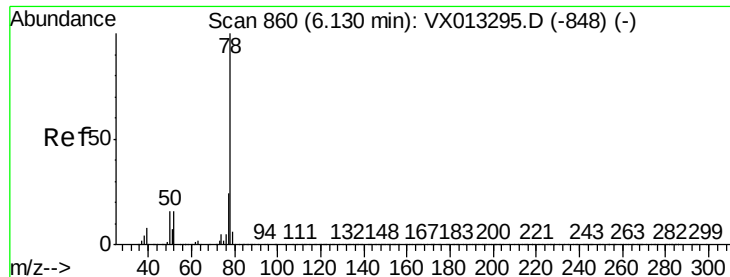
Delta R.T. -0.00 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 42523 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 77.8  | 60.3  | 90.5  |
| 98       | 48.8  | 40.3  | 60.5  |





#40

Benzene

Concen: 0.512 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

Instrument :

MSVOA\_X

ClientSampled :

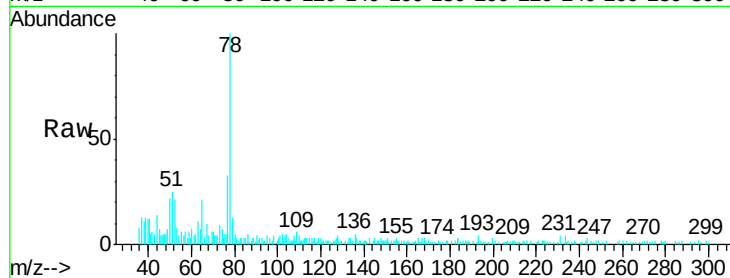
MW-2

Tgt Ion: 78 Resp: 15893

Ion Ratio Lower Upper

78 100

77 31.8 19.5 29.3#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

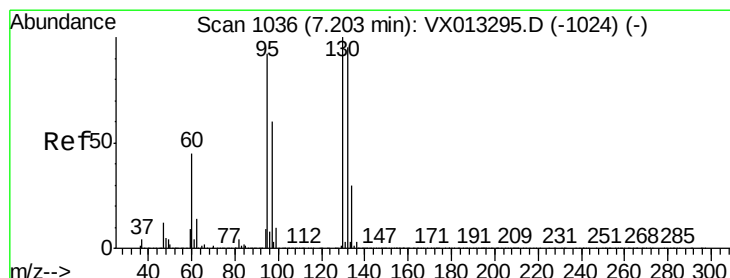
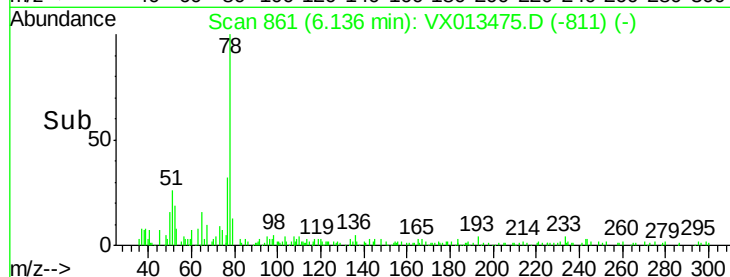
6000

4000

2000

0

Time--> 6.00 6.10 6.20



#44

Trichloroethene

Concen: 0.596 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013475.D

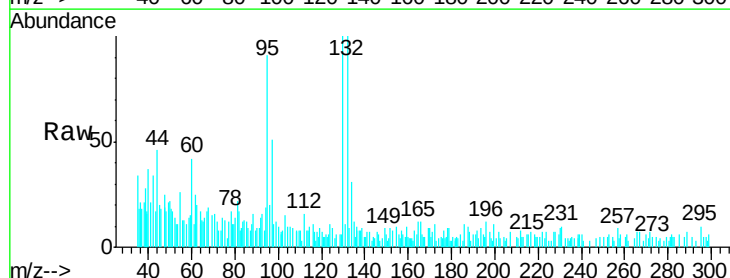
Acq: 20 Nov 2019 14:25

Tgt Ion: 130 Resp: 5093

Ion Ratio Lower Upper

130 100

95 87.8 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

2500

2000

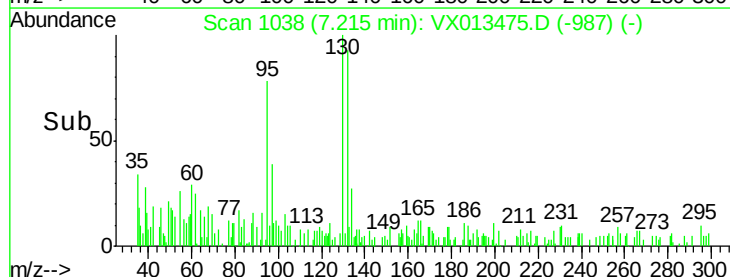
1500

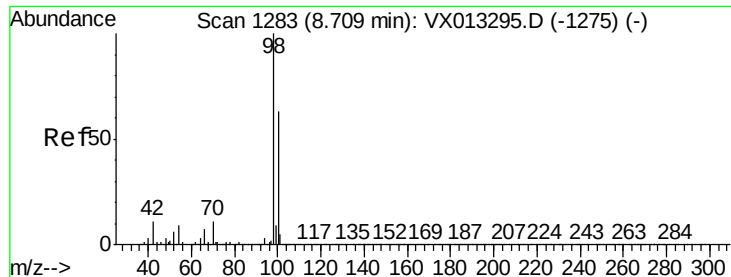
1000

500

0

Time--> 7.10 7.20 7.30





#50

Toluene-d8

Concen: 50.930 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

Instrument :

MSVOA\_X

ClientSampleId :

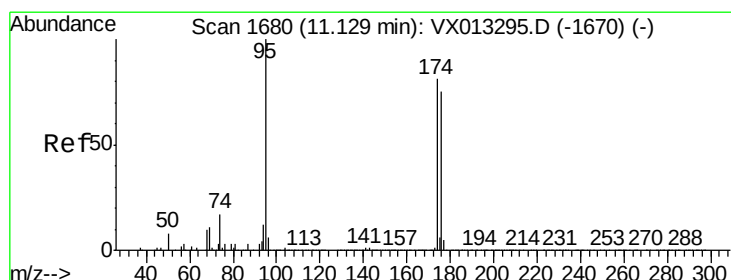
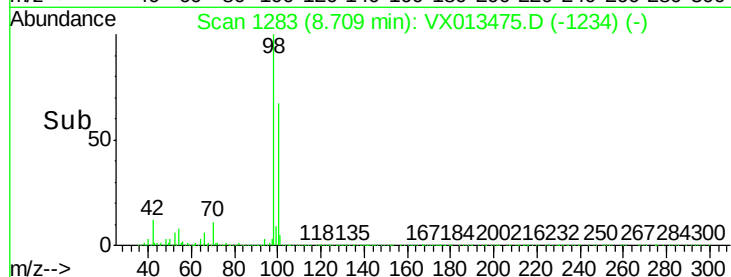
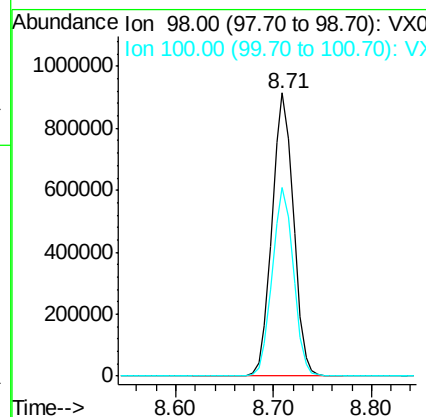
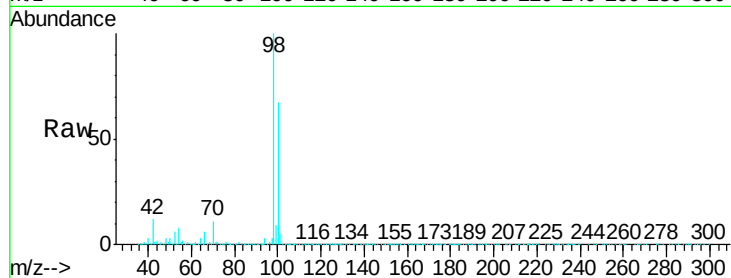
MW-2

Tgt Ion: 98 Resp: 1399217

Ion Ratio Lower Upper

98 100

100 65.8 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 51.316 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

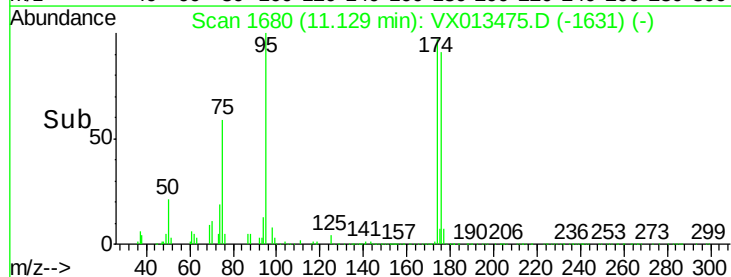
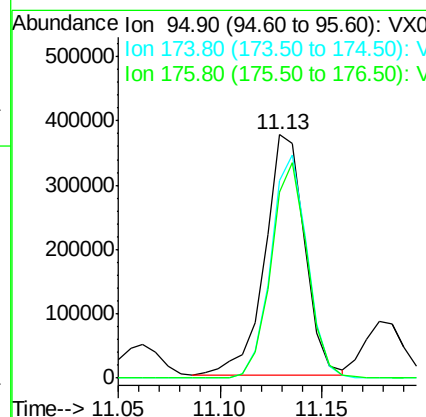
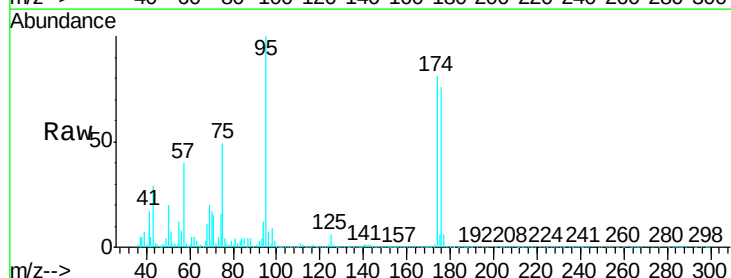
Tgt Ion: 95 Resp: 508818

Ion Ratio Lower Upper

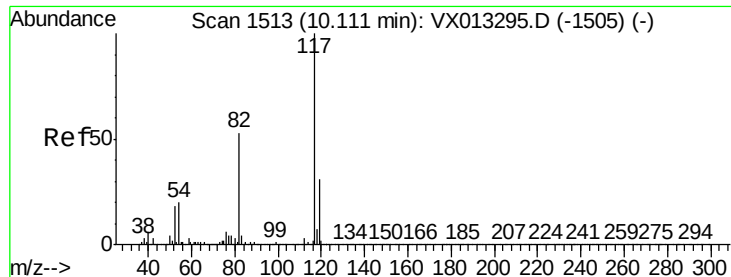
95 100

174 85.1 0.0 179.8

176 81.5 0.0 173.0



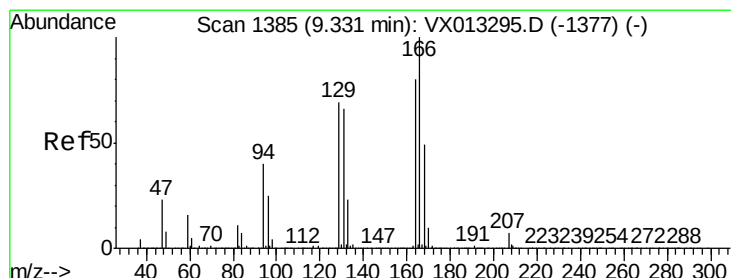
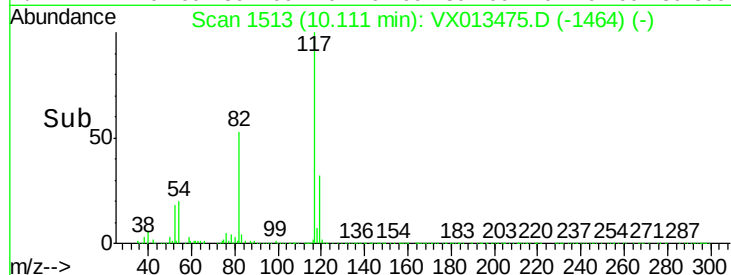
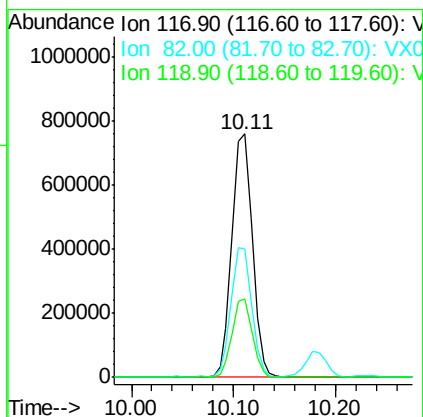
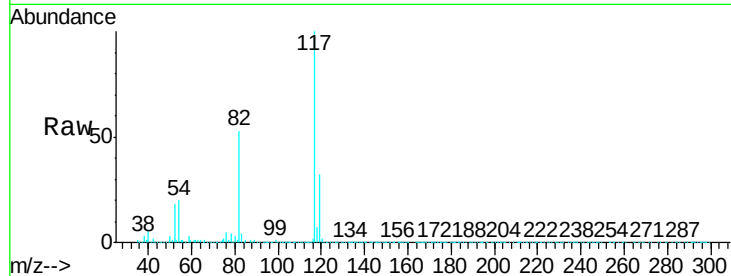




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

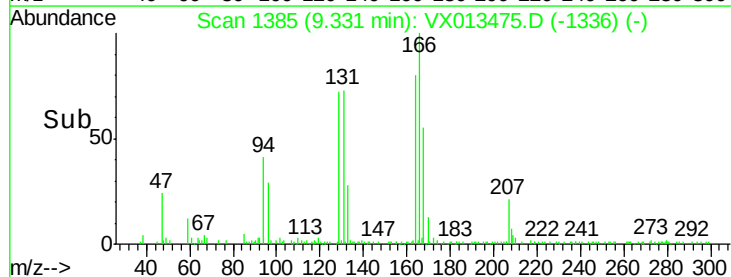
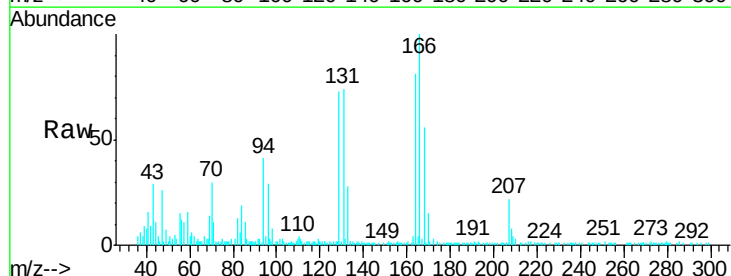
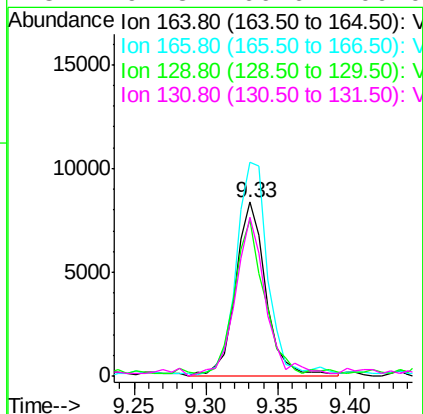
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-2

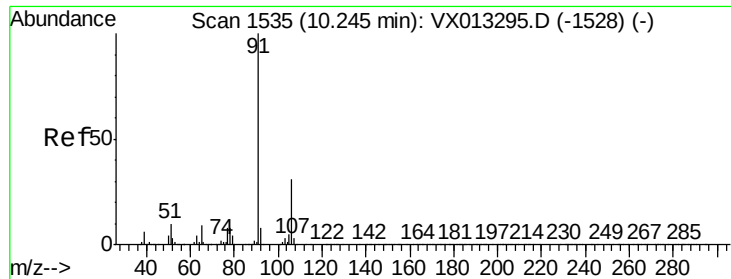
Tgt Ion:117 Resp: 1056694  
Ion Ratio Lower Upper  
117 100  
82 52.6 42.6 64.0  
119 32.3 24.8 37.2



#64  
Tetrachloroethene  
Concen: 1.628 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

Tgt Ion:164 Resp: 12312  
Ion Ratio Lower Upper  
164 100  
166 121.3 100.4 150.6  
129 87.8 69.4 104.2  
131 91.3 66.6 100.0





#67

Ethyl Benzene

Concen: 107.631 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

Instrument :

MSVOA\_X

ClientSampleId :

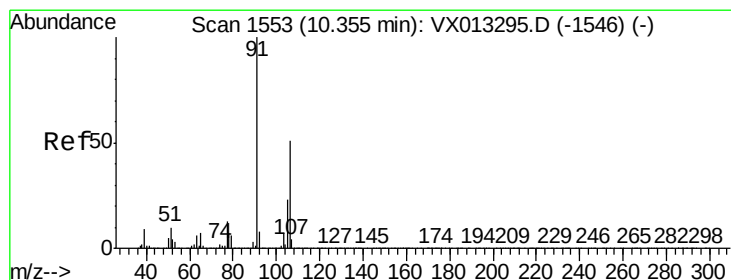
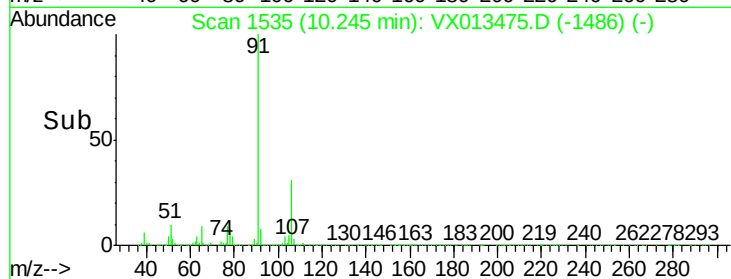
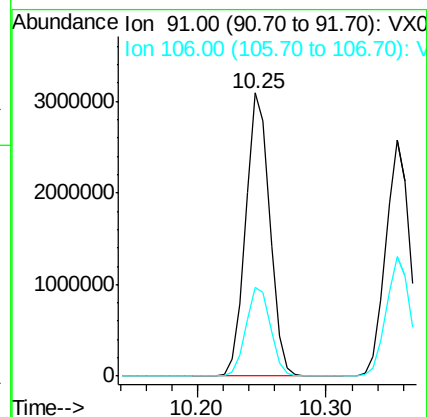
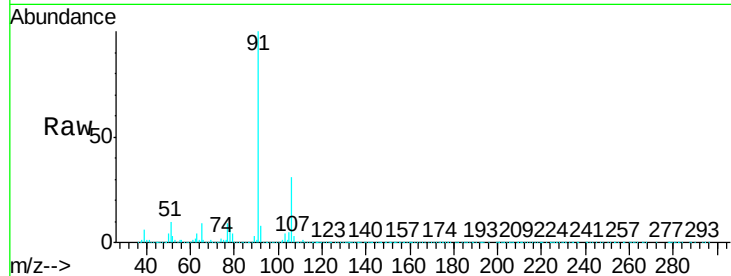
MW-2

Tgt Ion: 91 Resp: 3973983

Ion Ratio Lower Upper

91 100

106 31.3 24.6 36.8



#68

m/p-Xylenes

Concen: 119.729 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX013475.D

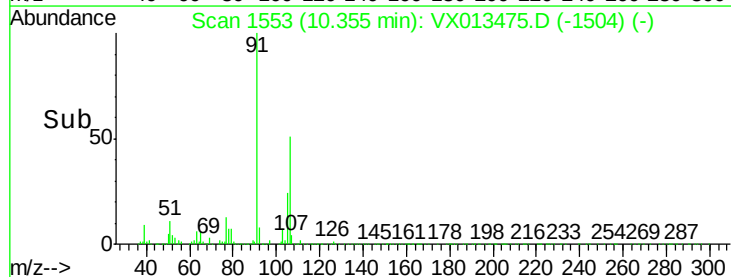
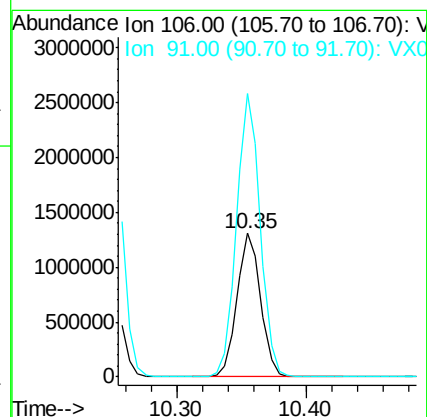
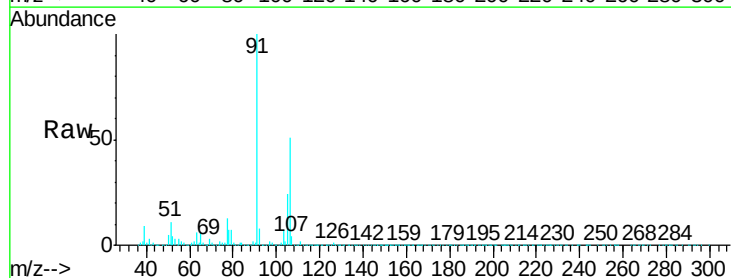
Acq: 20 Nov 2019 14:25

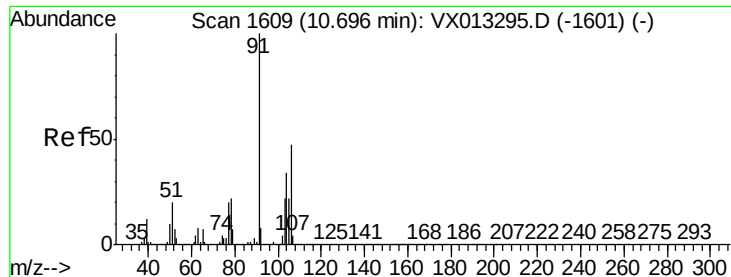
Tgt Ion: 106 Resp: 1671869

Ion Ratio Lower Upper

106 100

91 198.3 159.3 238.9

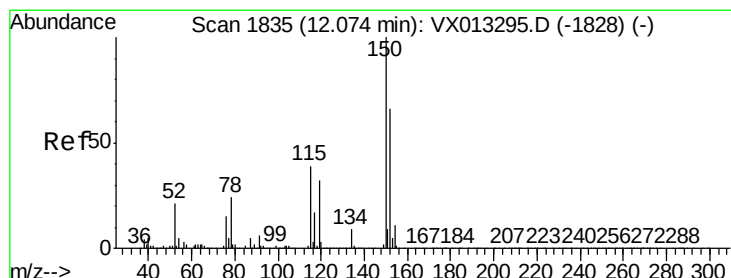
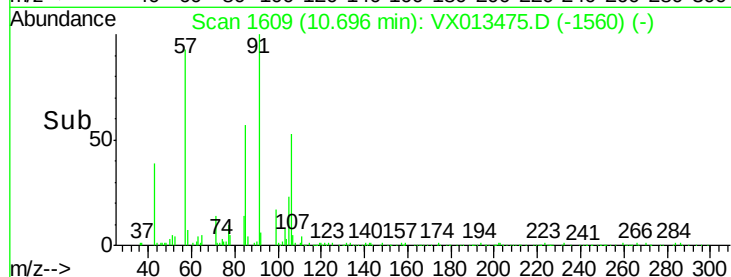
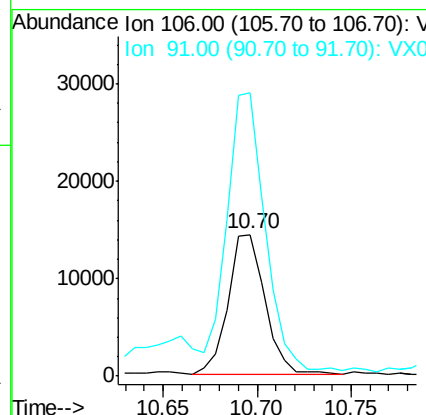
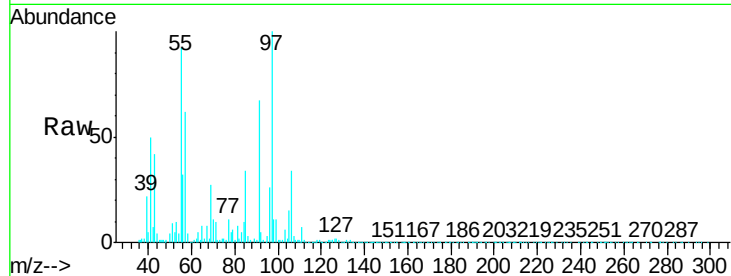




#69  
o-Xylene  
Concen: 1.409 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

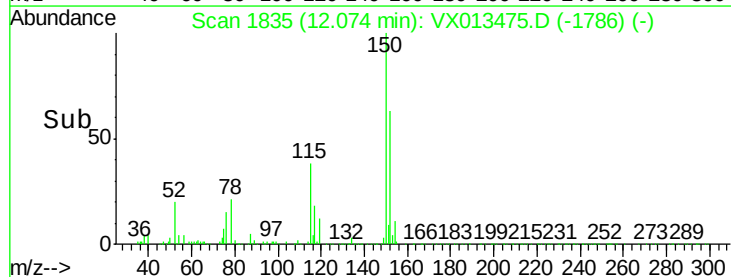
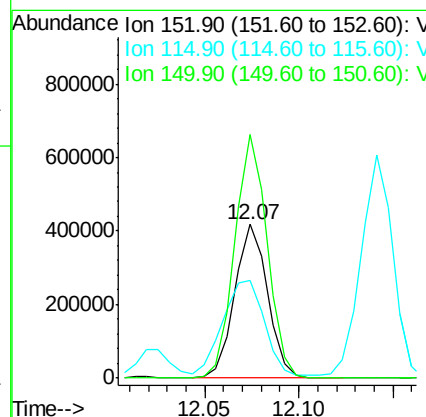
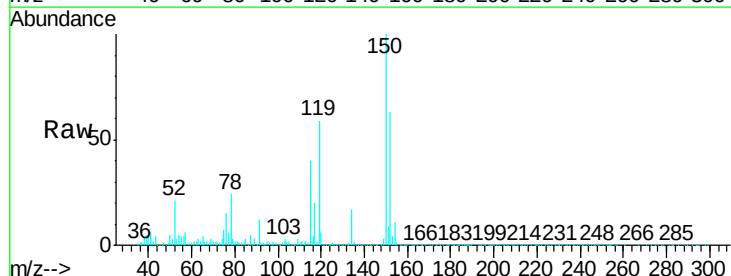
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-2

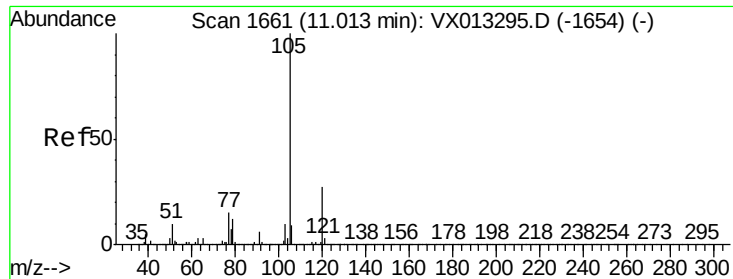
Tgt Ion:106 Resp: 19257  
Ion Ratio Lower Upper  
106 100  
91 206.2 105.7 317.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

Tgt Ion:152 Resp: 504710  
Ion Ratio Lower Upper  
152 100  
115 81.0 39.5 118.3  
150 156.4 0.0 344.4





#73

Isopropylbenzene

Concen: 203.320 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

Instrument :

MSVOA\_X

ClientSampled :

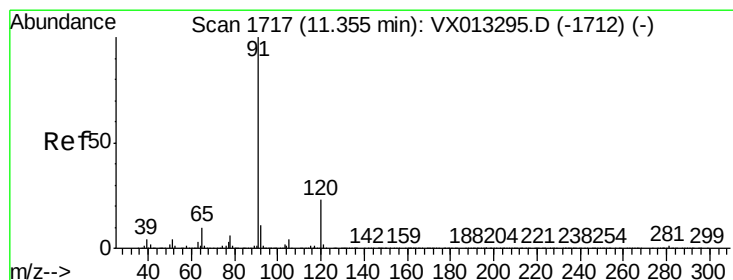
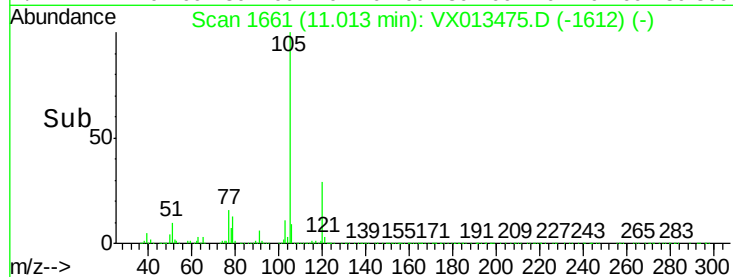
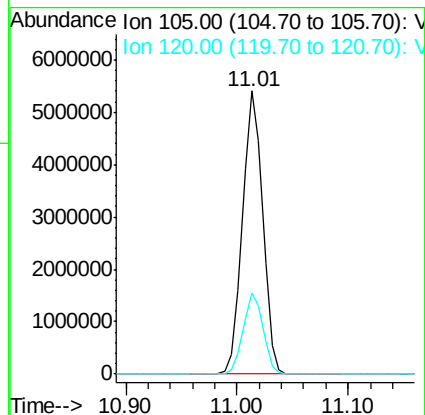
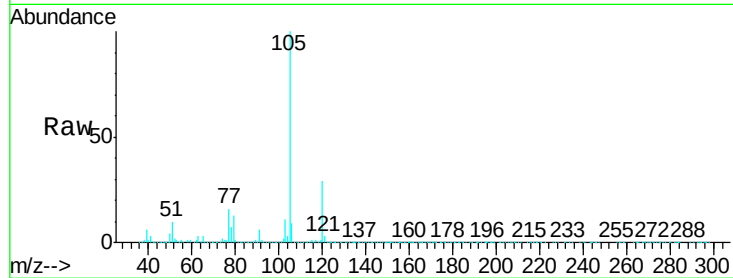
MW-2

Tgt Ion:105 Resp: 6803703

Ion Ratio Lower Upper

105 100

120 28.2 13.5 40.5



#78

n-propylbenzene

Concen: 324.697 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013475.D

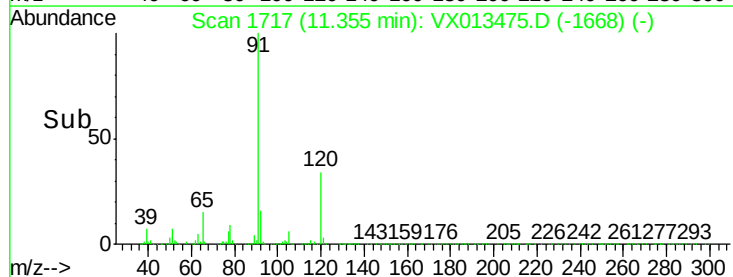
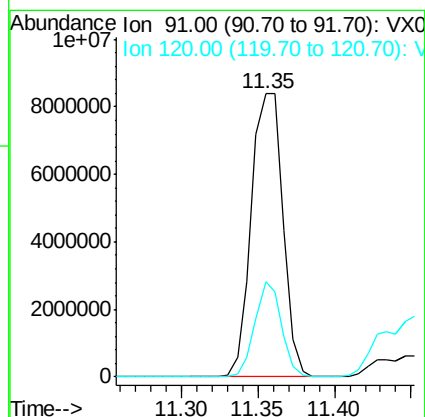
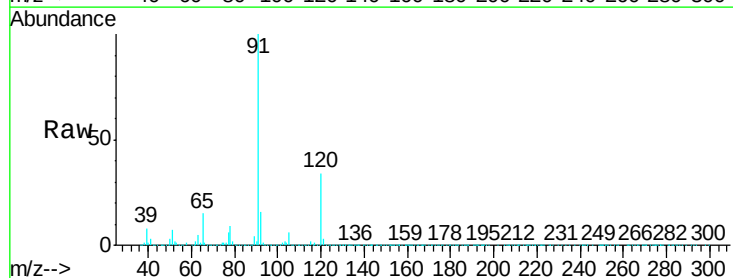
Acq: 20 Nov 2019 14:25

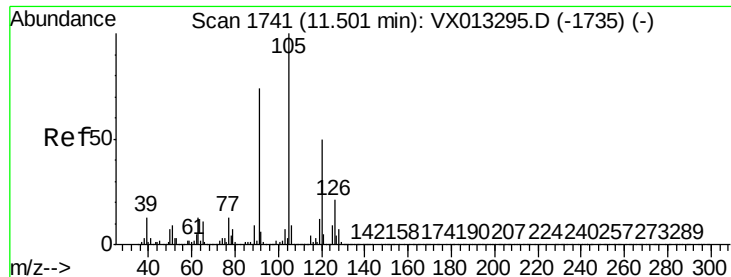
Tgt Ion: 91 Resp:12103351

Ion Ratio Lower Upper

91 100

120 28.3 11.6 34.8





#80

1,3,5-Trimethylbenzene

Concen: 305.808 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

Instrument :

MSVOA\_X

ClientSampleId :

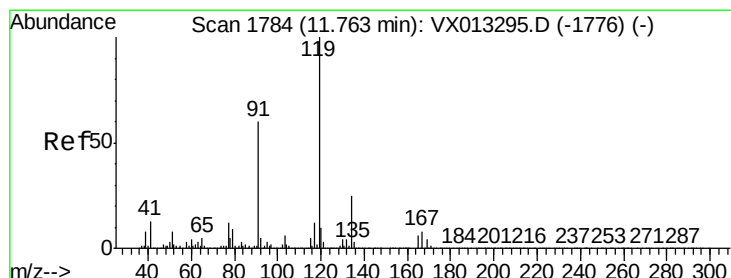
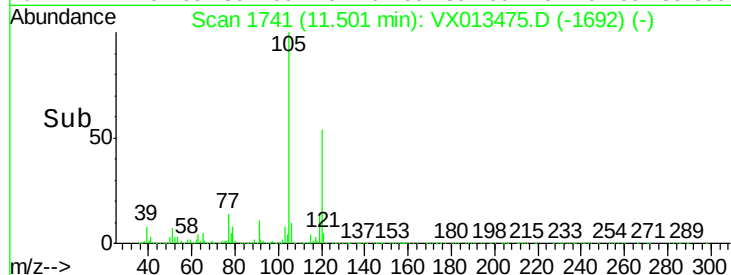
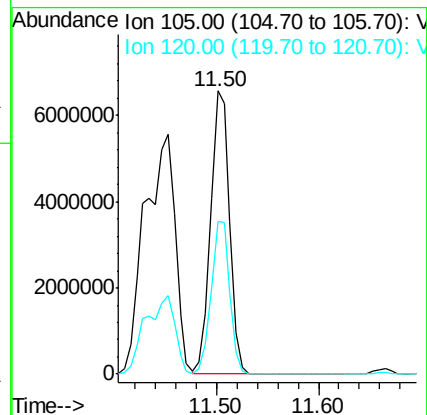
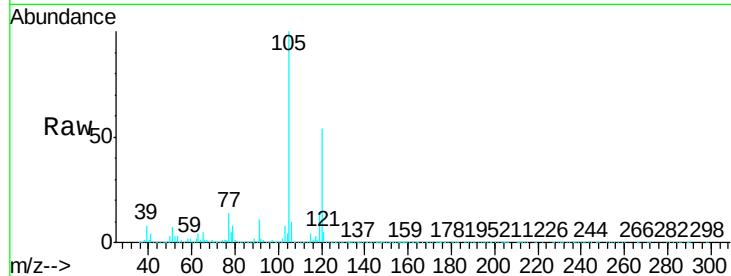
MW-2

Tgt Ion:105 Resp: 8523760

Ion Ratio Lower Upper

105 100

120 53.2 24.9 74.8



#83

tert-Butylbenzene

Concen: 23.107 ug/l

RT: 11.77 min Scan# 1785

Delta R.T. 0.01 min

Lab File: VX013475.D

Acq: 20 Nov 2019 14:25

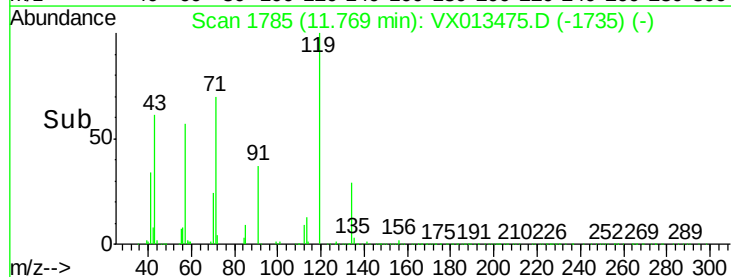
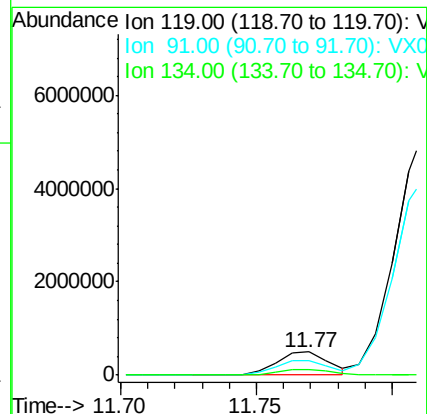
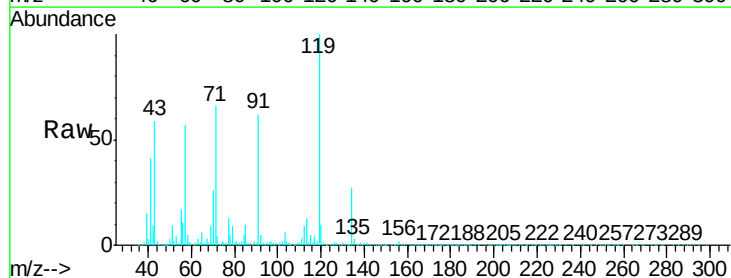
Tgt Ion:119 Resp: 648352

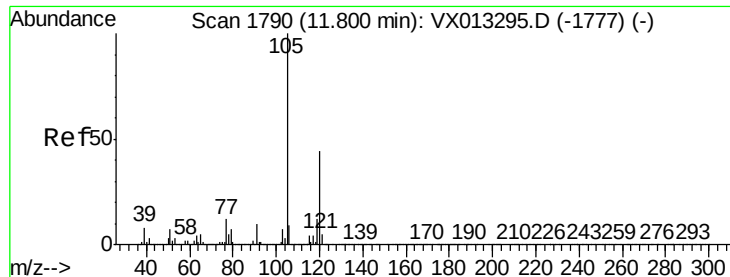
Ion Ratio Lower Upper

119 100

91 65.7 26.9 80.7

134 26.6 11.7 35.1

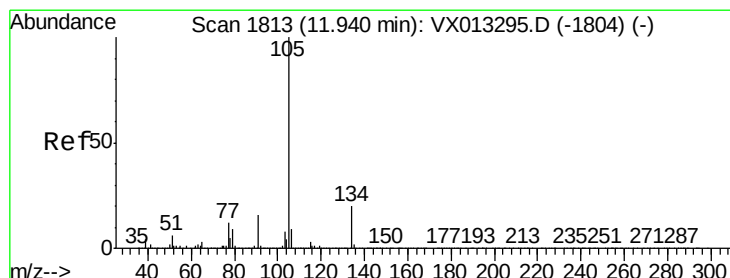
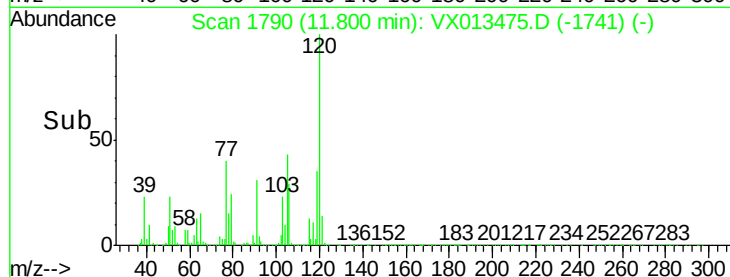
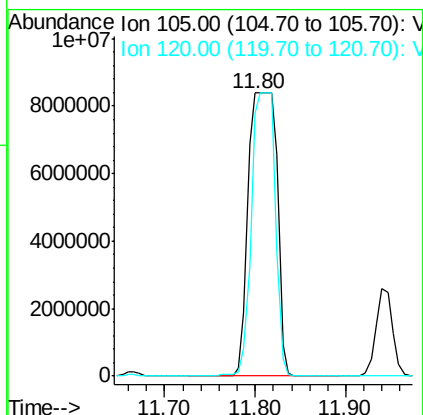
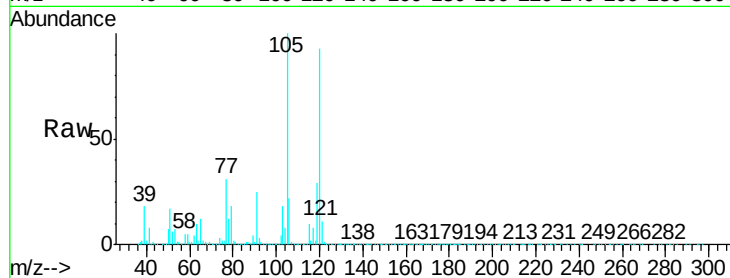




#84  
 1,2,4-Trimethylbenzene  
 Concen: 657.590 ug/l  
 RT: 11.80 min Scan# 1790  
 Delta R.T. -0.00 min  
 Lab File: VX013475.D  
 Acq: 20 Nov 2019 14:25

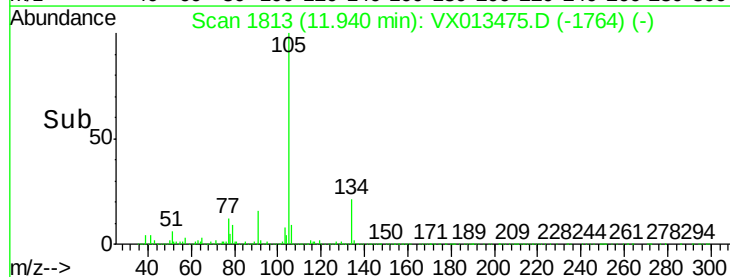
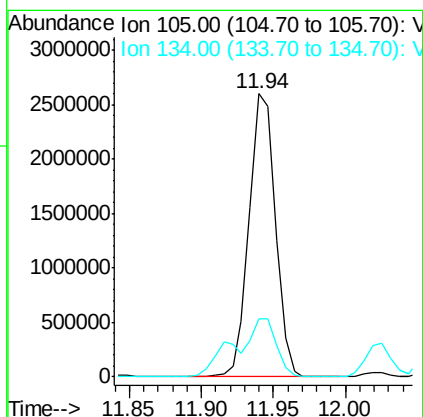
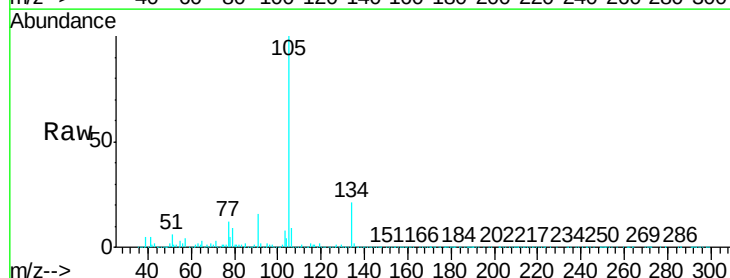
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-2

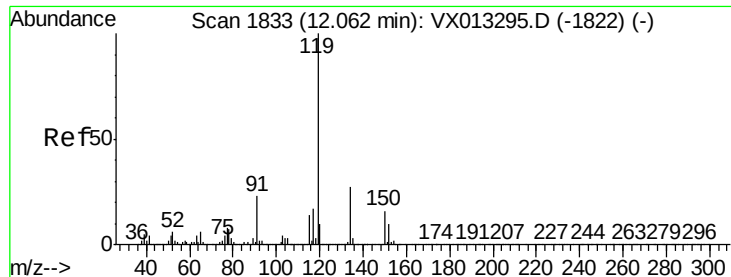
Tgt Ion:105 Resp:18386612  
 Ion Ratio Lower Upper  
 105 100  
 120 82.8 22.7 68.1#



#85  
 sec-Butylbenzene  
 Concen: 101.745 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. -0.00 min  
 Lab File: VX013475.D  
 Acq: 20 Nov 2019 14:25

Tgt Ion:105 Resp: 3280967  
 Ion Ratio Lower Upper  
 105 100  
 134 32.4 10.3 30.9#

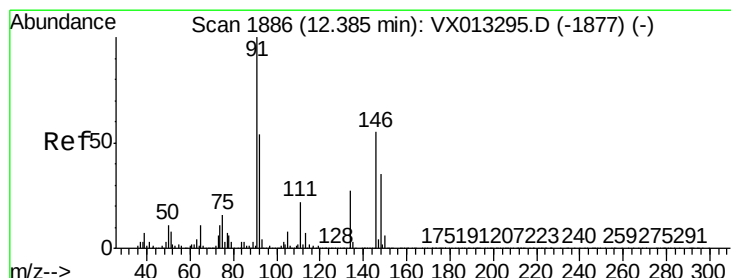
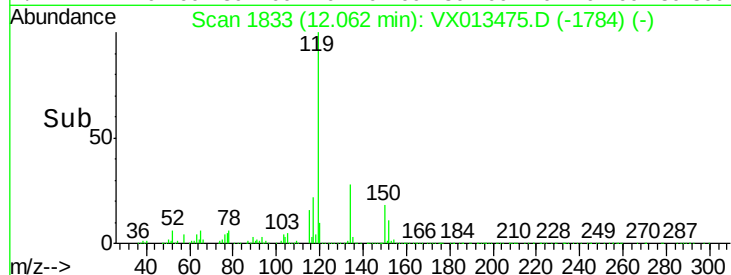
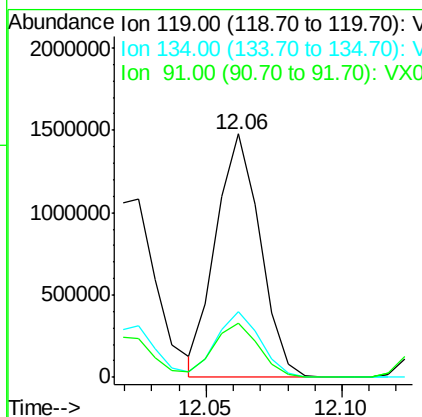
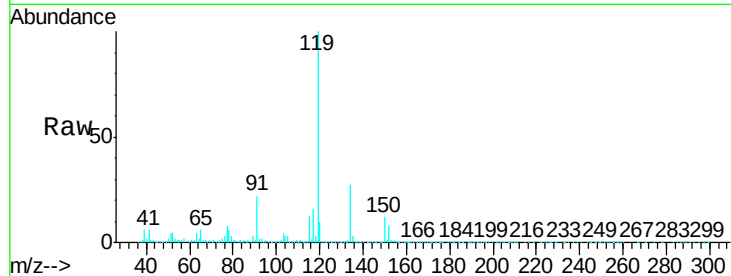




#86  
p-Isopropyltoluene  
Concen: 56.095 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

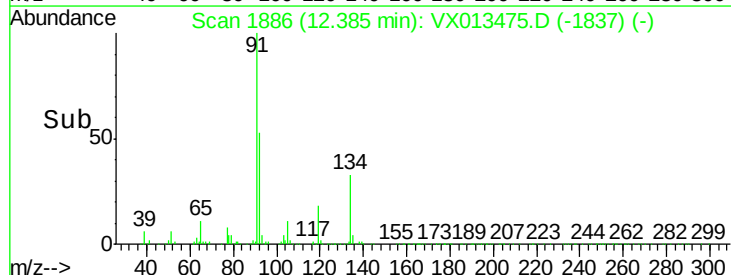
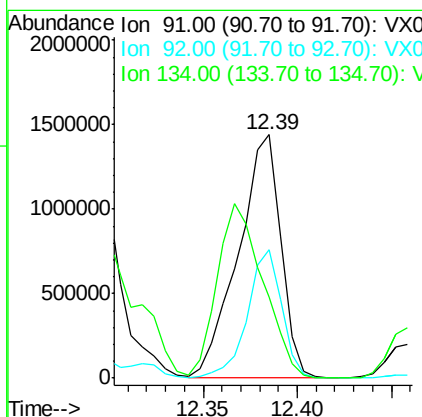
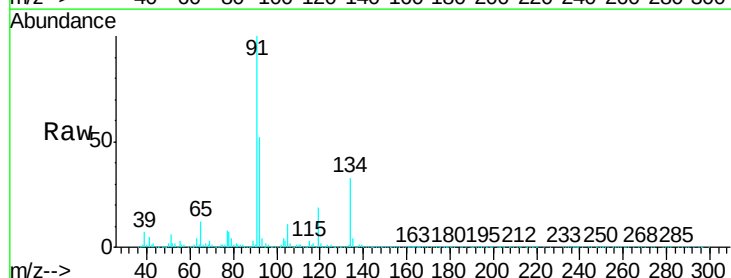
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-2

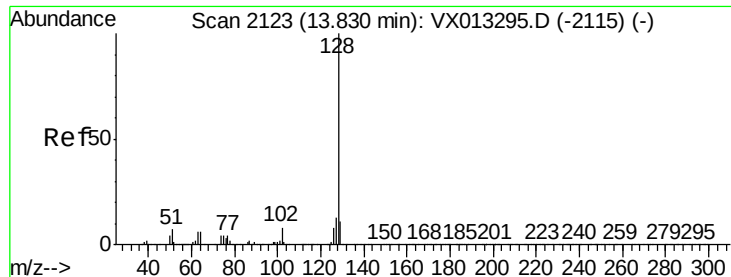
Tgt Ion: 119 Resp: 1665677  
Ion Ratio Lower Upper  
119 100  
134 26.8 13.3 39.8  
91 22.4 11.5 34.4



#89  
n-Butylbenzene  
Concen: 87.082 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

Tgt Ion: 91 Resp: 2256307  
Ion Ratio Lower Upper  
91 100  
92 42.4 27.3 81.8  
134 76.9 13.5 40.5#





#95  
Naphthalene  
Concen: 64.150 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. -0.00 min  
Lab File: VX013475.D  
Acq: 20 Nov 2019 14:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-2

Tgt Ion:128 Resp: 2231594  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.2 15.2  
129 11.2 8.5 12.7

