

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070220\  
 Data File : VY003080.D  
 Acq On : 02 Jul 2020 13:12  
 Operator : SY/MD  
 Sample : L3152-03  
 Misc : 1.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-COMP

Quant Time: Jul 03 03:03:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 273377   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 414389   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 289965   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 100045   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 124491   | 45.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.70%  |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 134560   | 52.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.10% |          |
| 50) Toluene-d8              | 10.18 | 98   | 448365   | 46.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.12%  |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 107281   | 31.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 63.30%  |          |

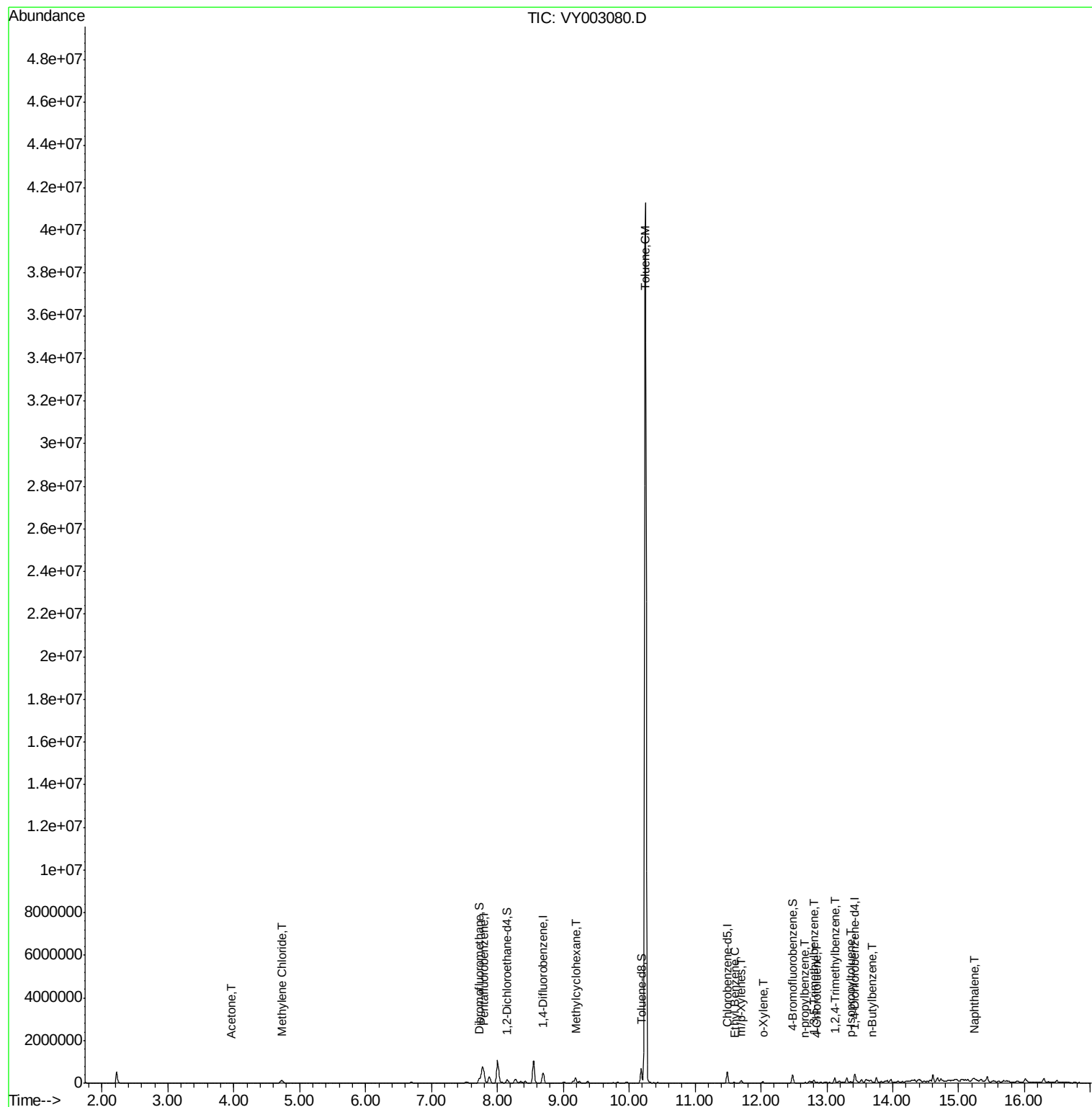
| Target Compounds           | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|----------------------------|-------|------|----------|----------|--------|--------|
| 16) Acetone                | 3.96  | 43   | 10360    | 16.178   | ug/l   | 96     |
| 20) Methylene Chloride     | 4.72  | 84   | 94677    | 30.399   | ug/l   | 94     |
| 39) Methylcyclohexane      | 9.19  | 83   | 94738    | 19.143   | ug/l   | 94     |
| 52) Toluene                | 10.24 | 92   | 17187975 | 2498.577 | ug/l # | 1      |
| 67) Ethyl Benzene          | 11.60 | 91   | 34256    | 3.275    | ug/l   | 97     |
| 68) m/p-Xylenes            | 11.70 | 106  | 33020    | 8.482    | ug/l   | 98     |
| 69) o-Xylene               | 12.03 | 106  | 15322    | 4.177    | ug/l   | 97     |
| 78) n-propylbenzene        | 12.67 | 91   | 14055    | 1.785    | ug/l   | 97     |
| 80) 1,3,5-Trimethylbenzene | 12.81 | 105  | 27716    | 5.044    | ug/l   | 97     |
| 82) 4-Chlorotoluene        | 12.85 | 91   | 13446    | 2.938    | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.12 | 105  | 126105   | 22.778   | ug/l   | 100    |
| 86) p-Isopropyltoluene     | 13.37 | 119  | 9210     | 1.495    | ug/l   | 94     |
| 89) n-Butylbenzene         | 13.70 | 91   | 11264    | 1.911    | ug/l # | 81     |
| 95) Naphthalene            | 15.23 | 128  | 118696   | 31.100   | ug/l   | 98     |

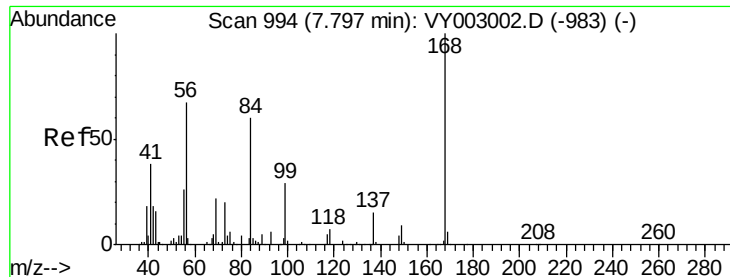
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070220\  
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Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Quant Time: Jul 03 03:03:20 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 30 04:11:35 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

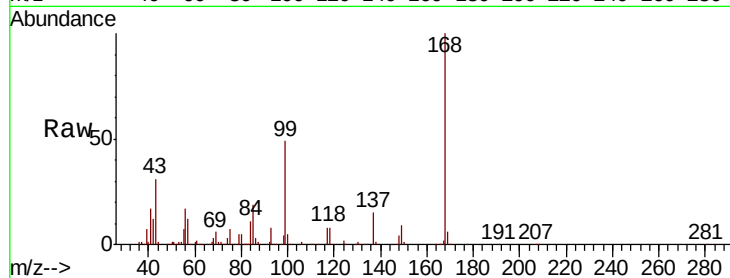
DRUM-COMP

Tot Ion:168 Resp: 273377

Ion Ratio Lower Upper

168 100

99 48.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003080.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003080.D (-945) (-)

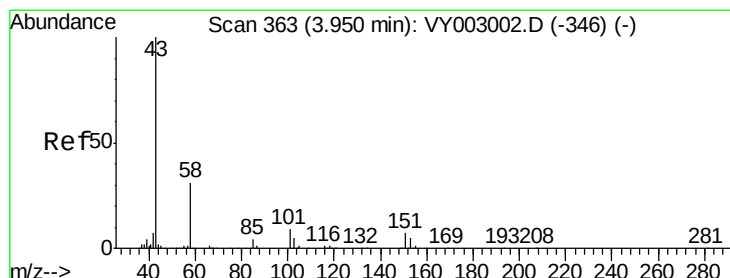
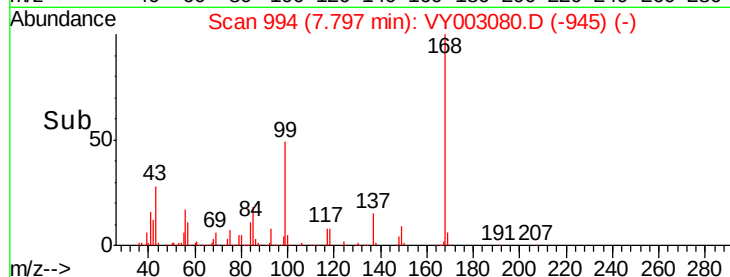
7.80

100000

50000

0

Time-->



#16

Acetone

Concen: 16.178 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY003080.D

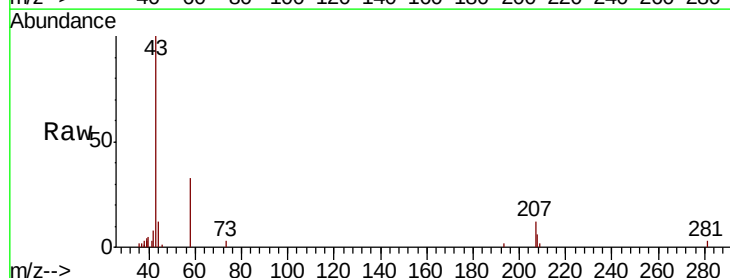
Acq: 02 Jul 2020 13:12

Tgt Ion: 43 Resp: 10360

Ion Ratio Lower Upper

43 100

58 32.9 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VY003080.D (-314) (-)

Ion 58.00 (57.70 to 58.70): VY003080.D (-314) (-)

3.96

4000

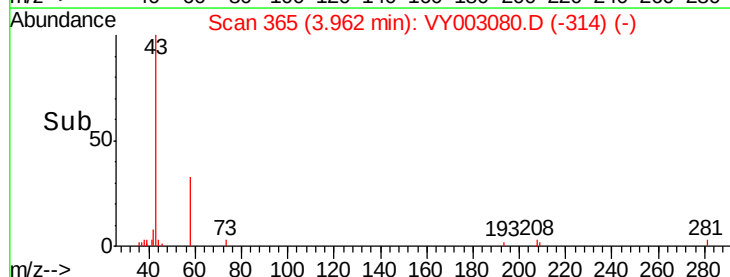
3000

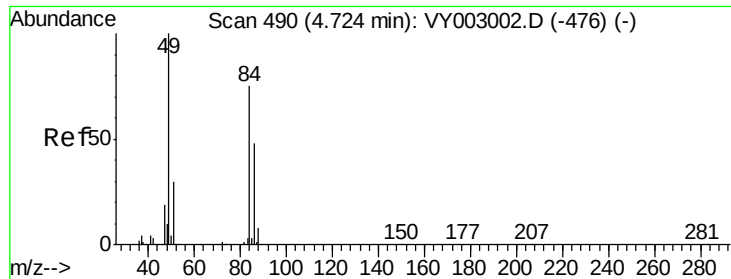
2000

1000

0

Time-->

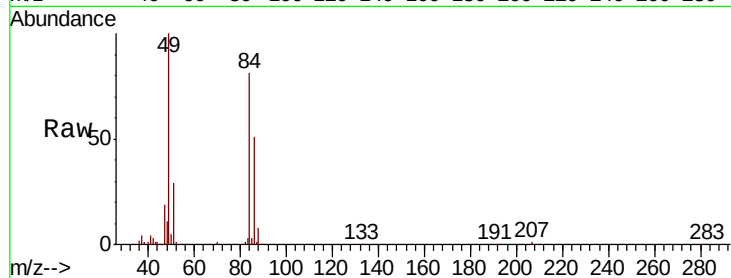




#20  
Methylene Chloride  
Concen: 30.399 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

| Tot Ion | 84    | Resp  | 94677 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 84      | 100   |       |       |
| 49      | 123.0 | 106.8 | 160.2 |
| 51      | 36.2  | 32.0  | 48.0  |
| 86      | 63.2  | 51.4  | 77.2  |



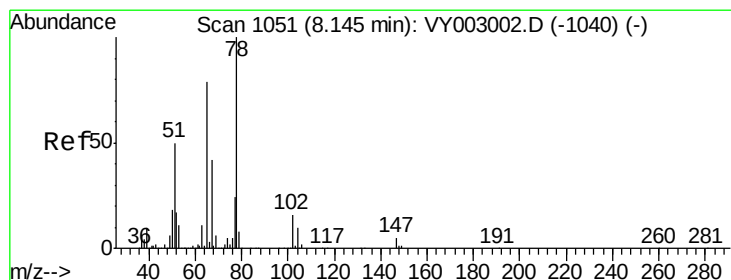
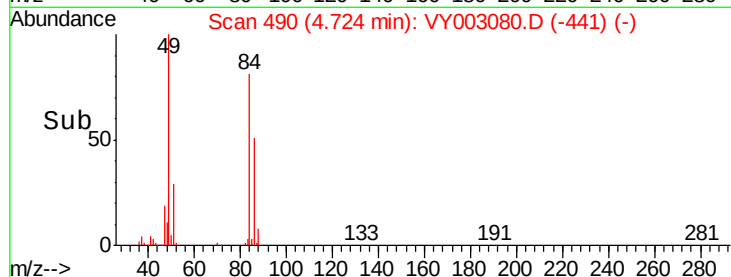
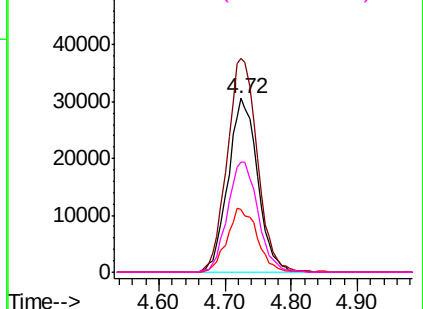
Abundance

Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

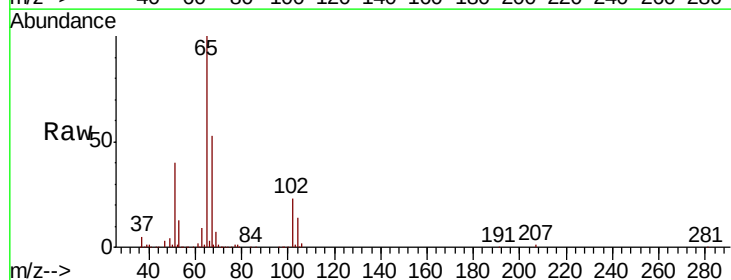
Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0



#33  
1,2-Dichloroethane-d4  
Concen: 45.850 ug/l  
RT: 8.15 min Scan# 1052  
Delta R.T. 0.01 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

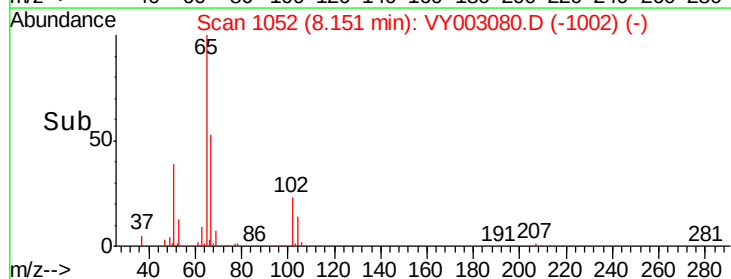
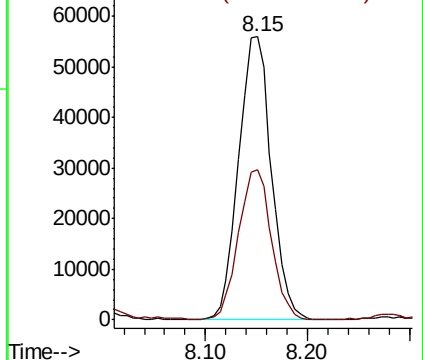
| Tgt Ion | 65    | Resp  | 124491 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 65      | 100   |       |        |
| 67      | 53.6  | 0.0   | 105.6  |

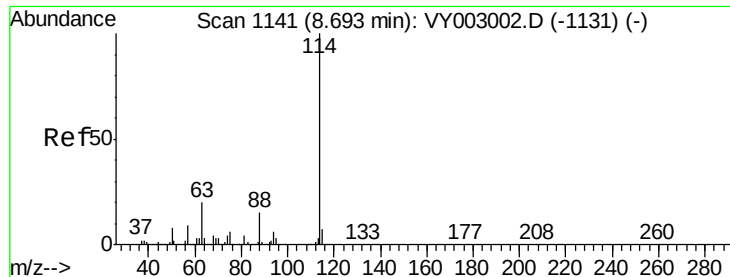


Abundance

Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

DRUM-COMP

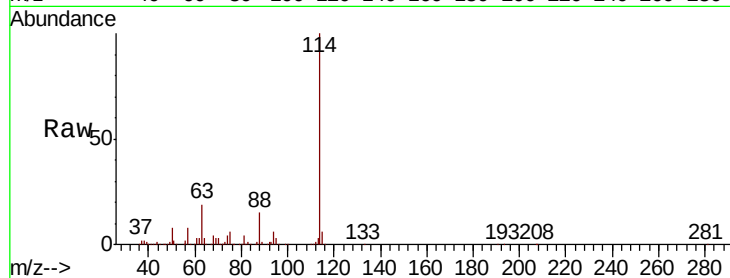
Tot Ion:114 Resp: 414389

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.6

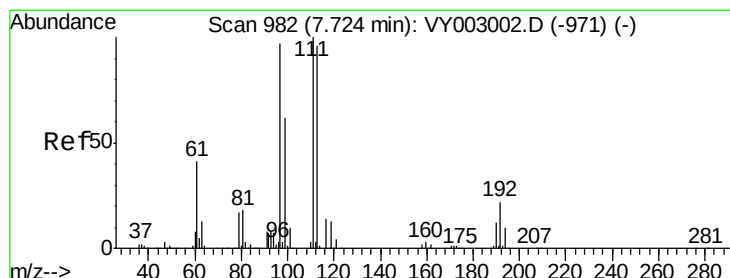
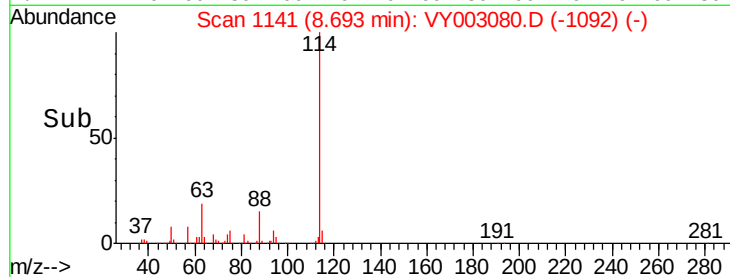
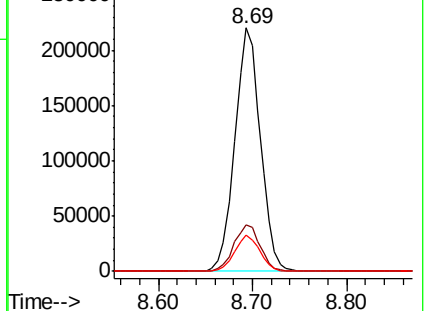
88 15.0 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 52.054 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

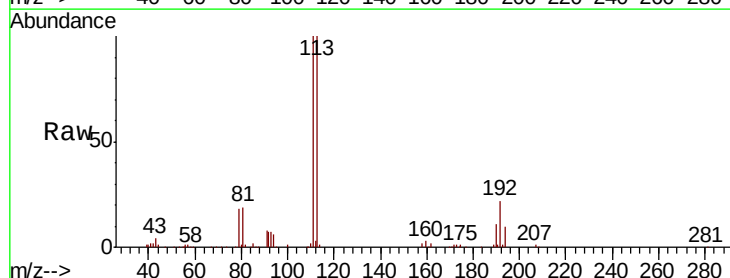
Tgt Ion:113 Resp: 134560

Ion Ratio Lower Upper

113 100

111 101.4 82.6 123.8

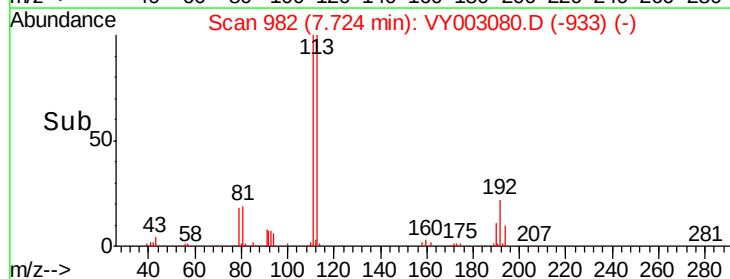
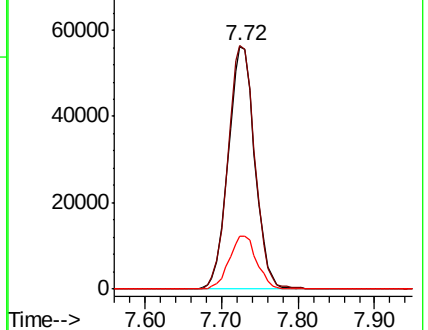
192 22.5 18.1 27.1

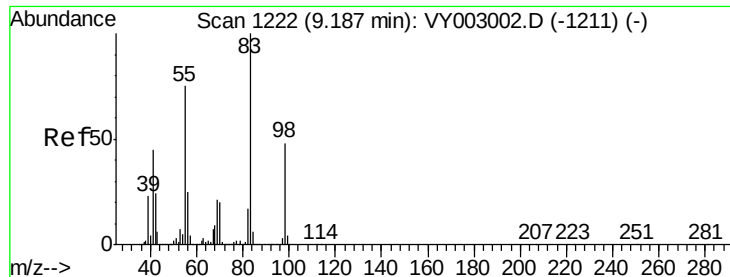


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

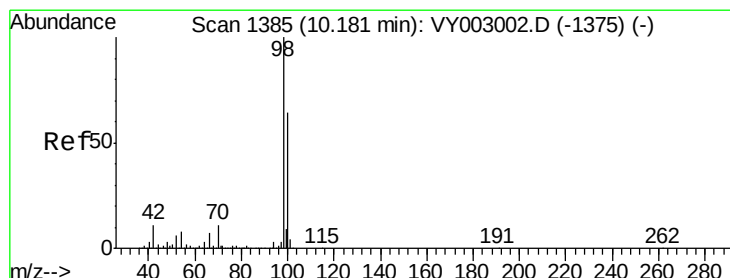
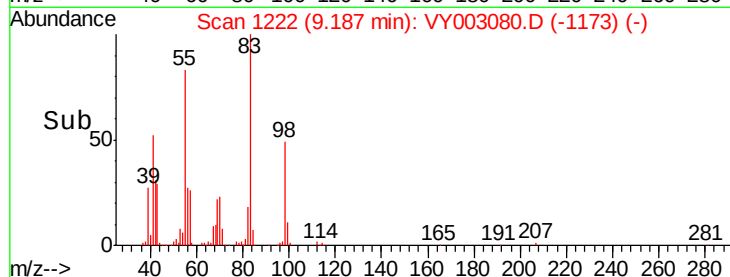
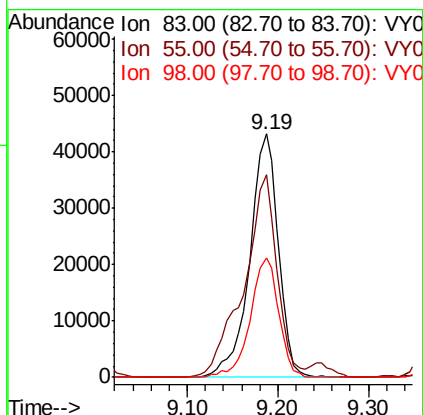
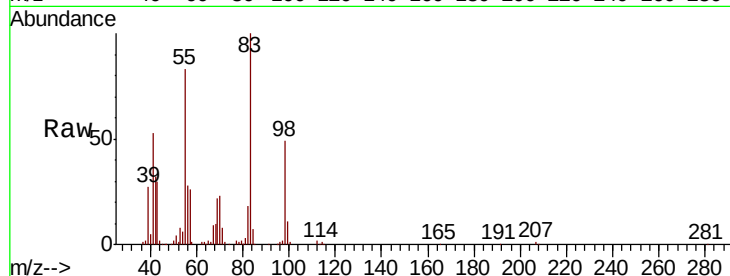




#39  
Methylvlcyclohexane  
Concen: 19.143 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. 0.00 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

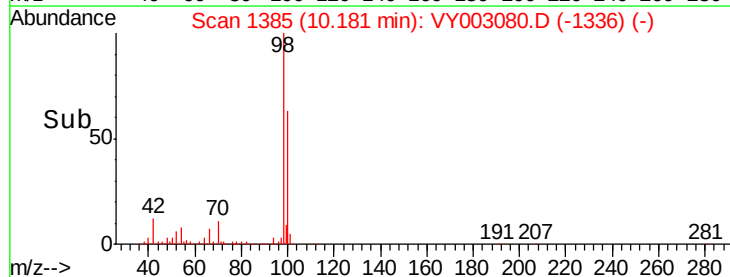
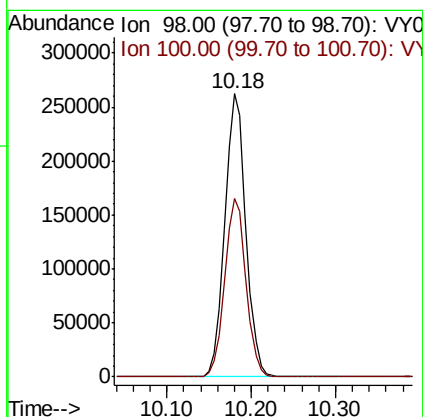
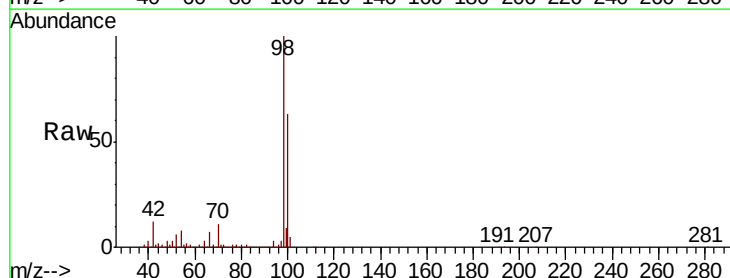
Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

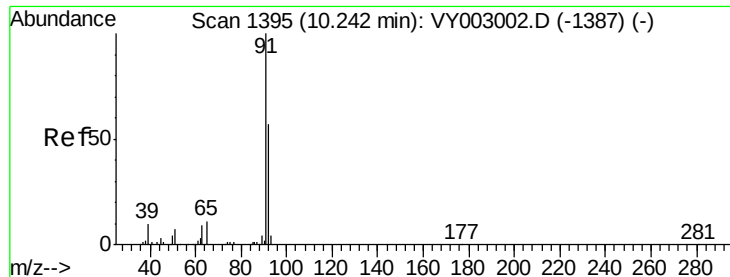
| Tot Ion   | 83    | Resp  | 94738 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 83.1  | 59.9  | 89.9  |
| 98        | 49.1  | 38.7  | 58.1  |



#50  
Toluene-d8  
Concen: 46.557 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

| Tgt Ion   | 98    | Resp  | 448365 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 63.7  | 51.1  | 76.7   |





#52

Toluene

Concen: 2498.577 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

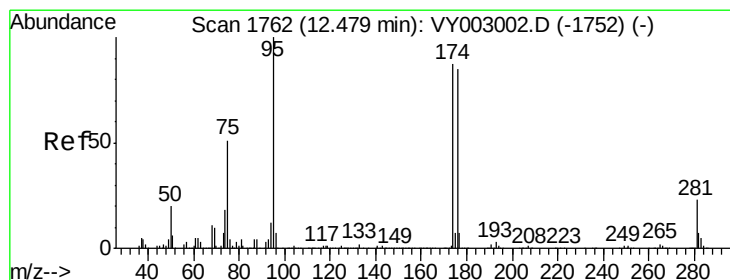
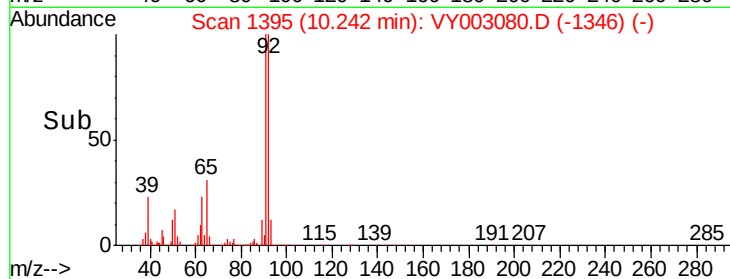
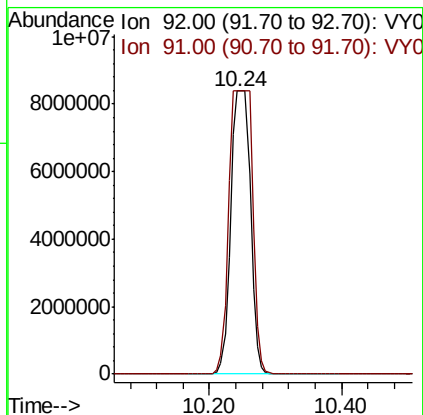
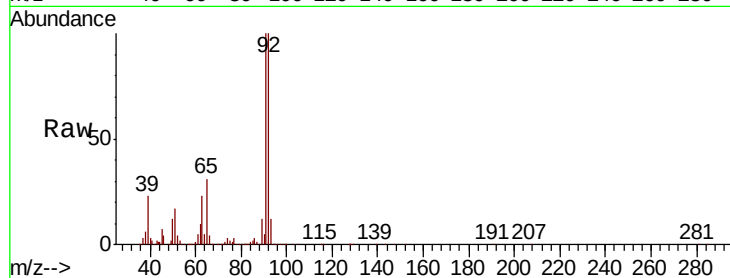
DRUM-COMP

Tot Ion: 92 Resp:17187975

Ion Ratio Lower Upper

92 100

91 0.0 139.6 209.4#



#62

4-Bromofluorobenzene

Concen: 31.647 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

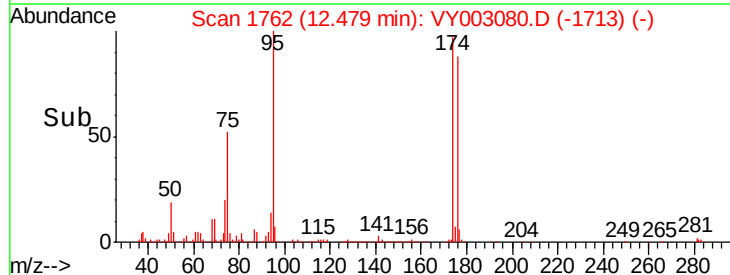
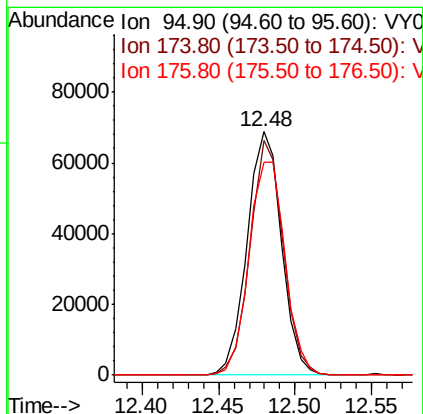
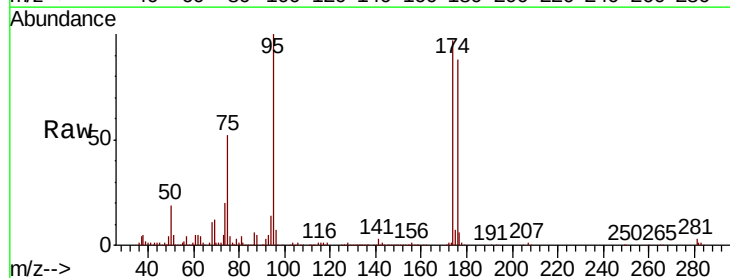
Tgt Ion: 95 Resp: 107281

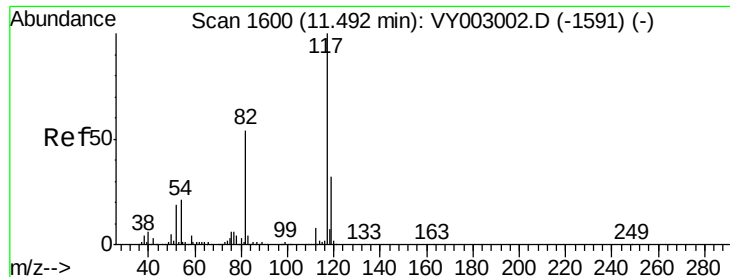
Ion Ratio Lower Upper

95 100

174 93.5 0.0 184.8

176 92.5 0.0 183.0

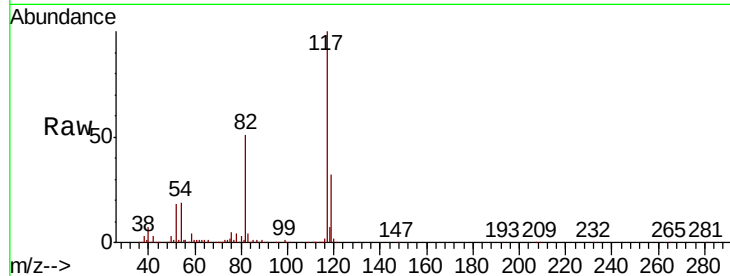




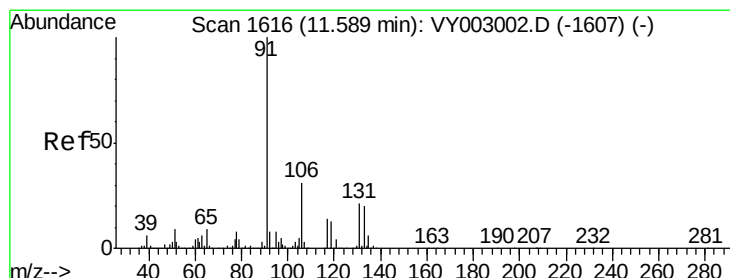
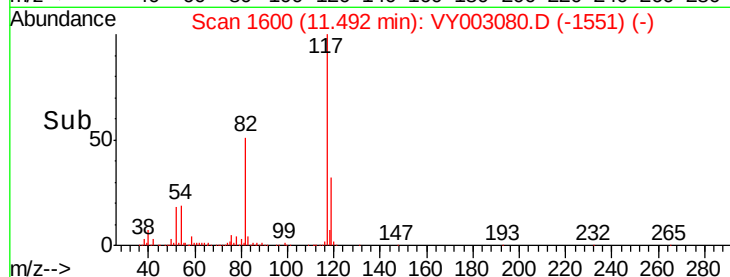
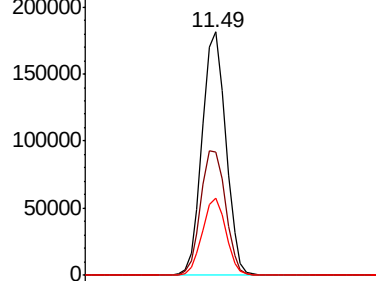
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Tot Ion:117 Resp: 289965  
Ion Ratio Lower Upper  
117 100  
82 50.7 43.0 64.6  
119 31.6 25.8 38.8

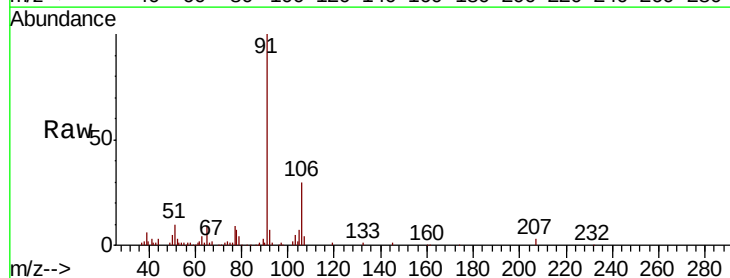


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

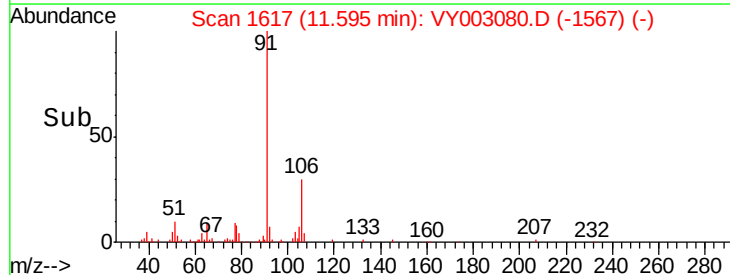
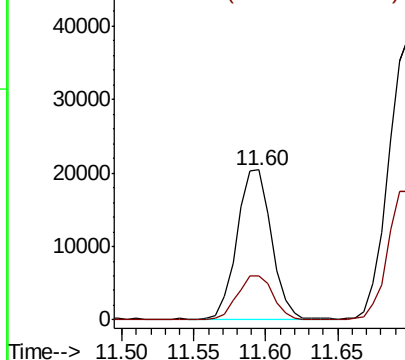


#67  
Ethyl Benzene  
Concen: 3.275 ug/l  
RT: 11.60 min Scan# 1617  
Delta R.T. 0.01 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

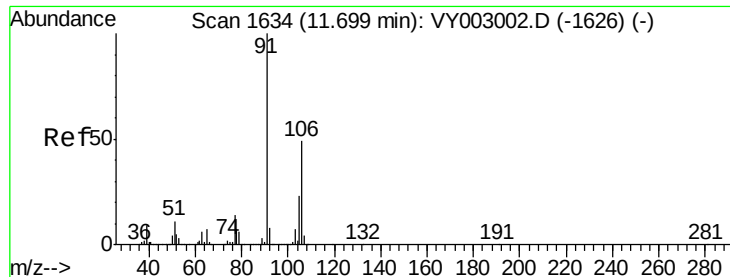
Tgt Ion: 91 Resp: 34256  
Ion Ratio Lower Upper  
91 100  
106 29.7 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VY0  
Ion 106.00 (105.70 to 106.70): V







#68

m/p-Xylenes

Concen: 8.482 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

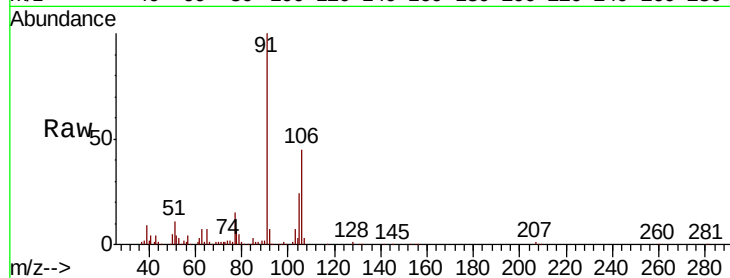
DRUM-COMP

Tot Ion:106 Resp: 33020

Ion Ratio Lower Upper

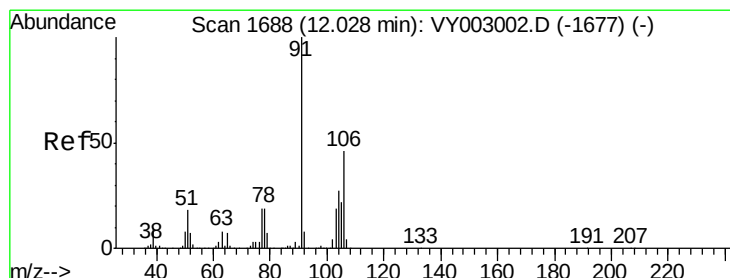
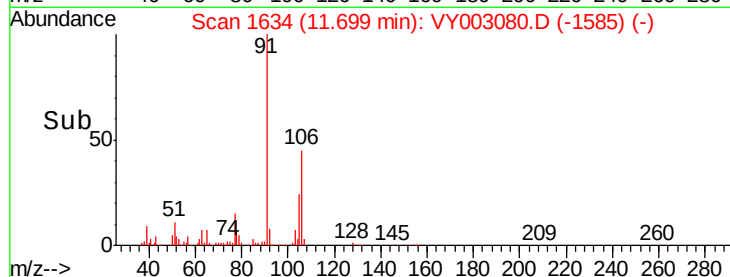
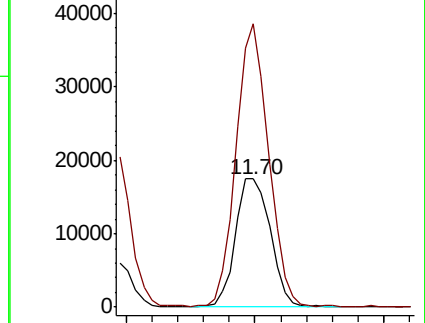
106 100

91 205.2 161.9 242.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 4.177 ug/l

RT: 12.03 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VY003080.D

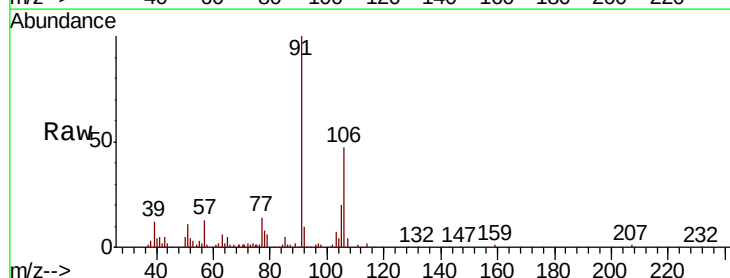
Acq: 02 Jul 2020 13:12

Tgt Ion:106 Resp: 15322

Ion Ratio Lower Upper

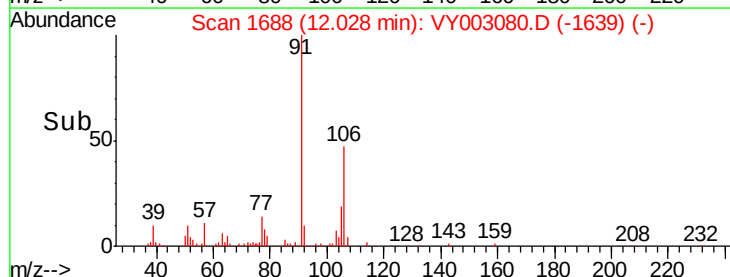
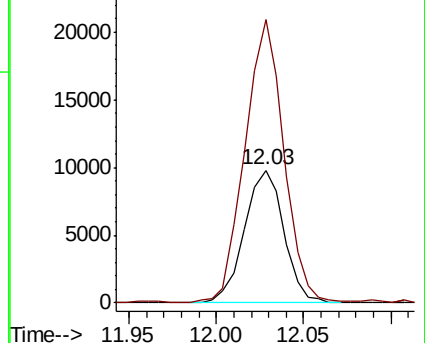
106 100

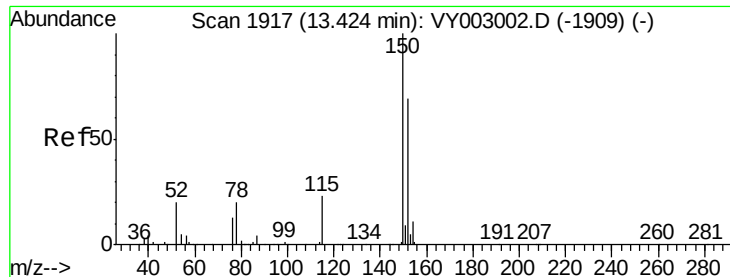
91 211.1 107.9 323.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



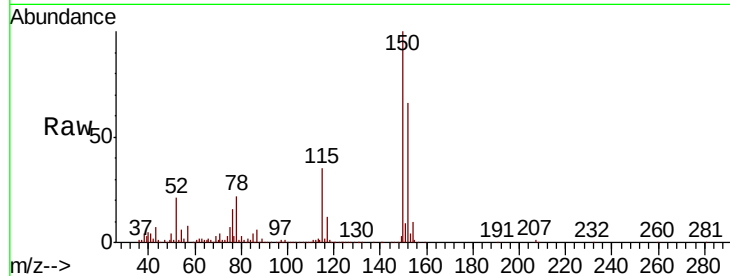


#72

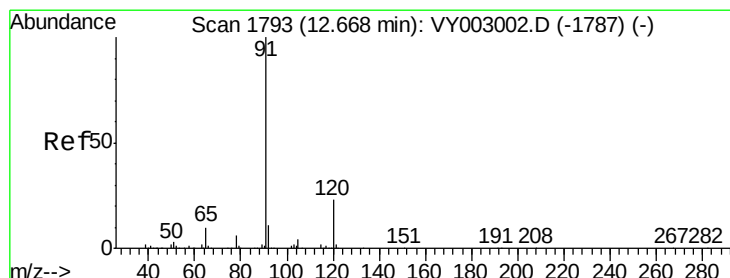
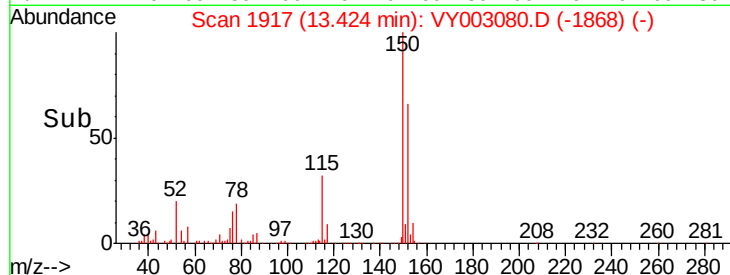
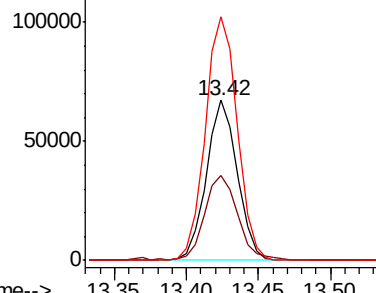
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.4  | 27.3  | 81.9  |
| 150     | 157.3 | 0.0   | 343.4 |



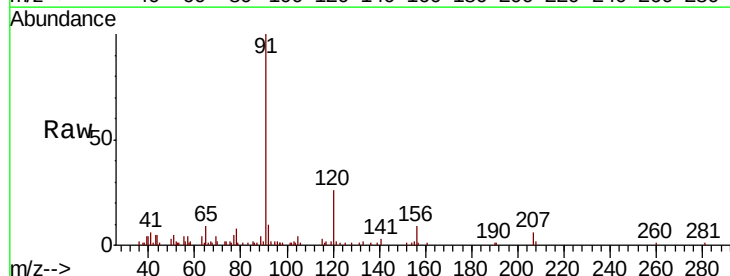
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



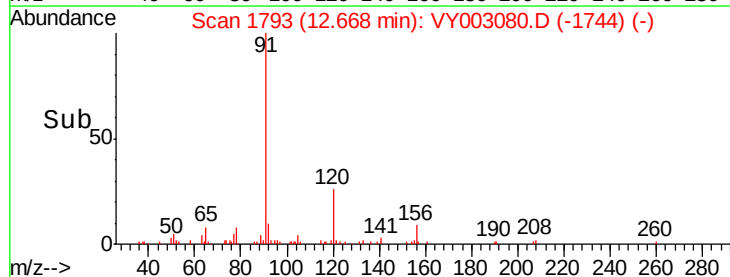
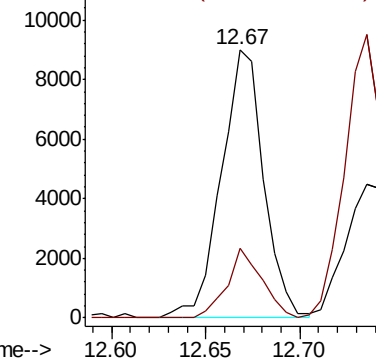
#78

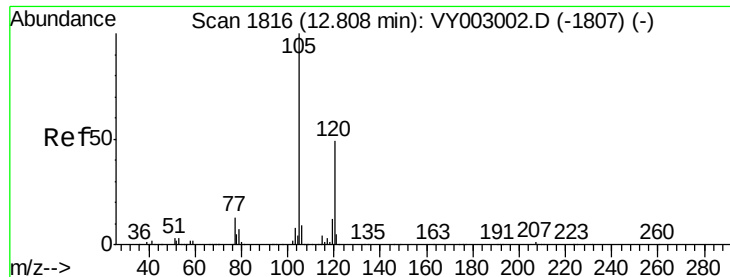
n-propylbenzene  
Concen: 1.785 ug/l  
RT: 12.67 min Scan# 1793  
Delta R.T. 0.00 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 21.4  | 11.5  | 34.5  |



Abundance Ion 91.00 (90.70 to 91.70): VY0  
Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 5.044 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. 0.01 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

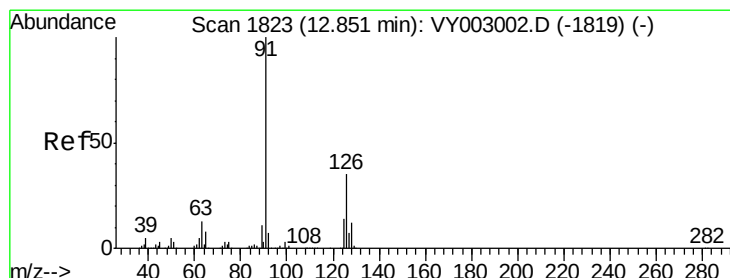
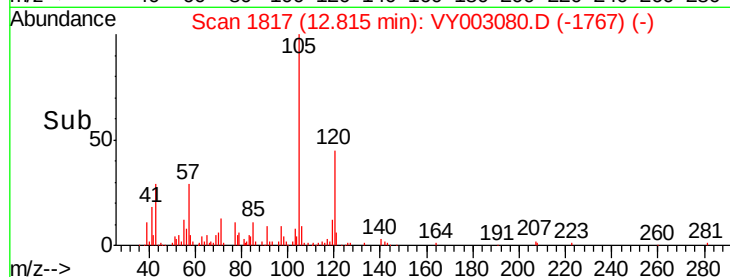
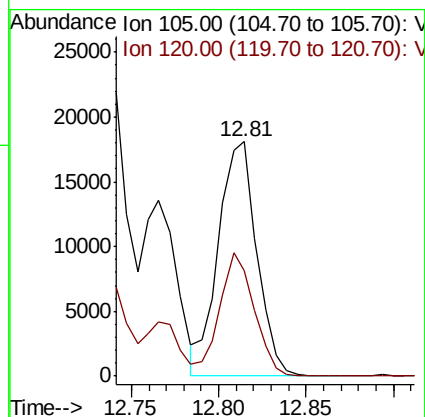
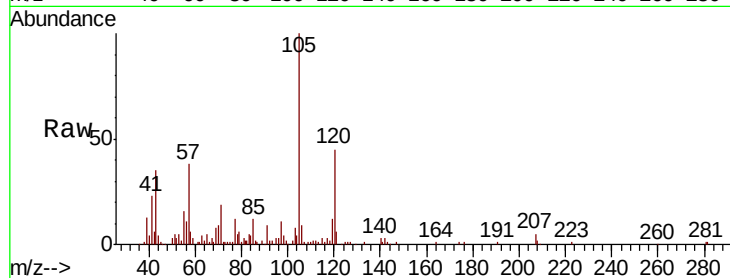
DRUM-COMP

Tot Ion:105 Resp: 27716

Ion Ratio Lower Upper

105 100

120 47.2 24.6 73.6



#82

4-Chlorotoluene

Concen: 2.938 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VY003080.D

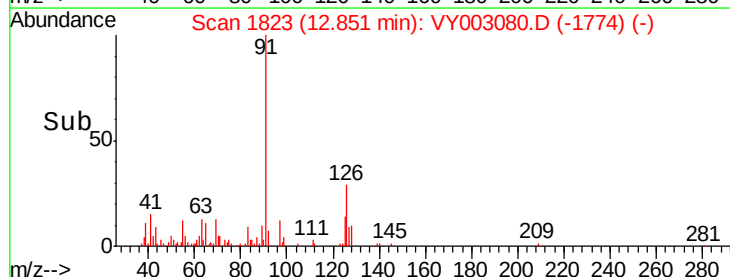
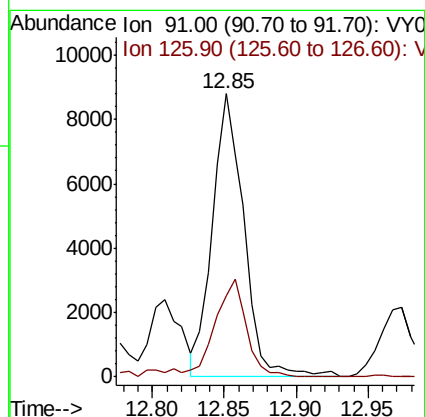
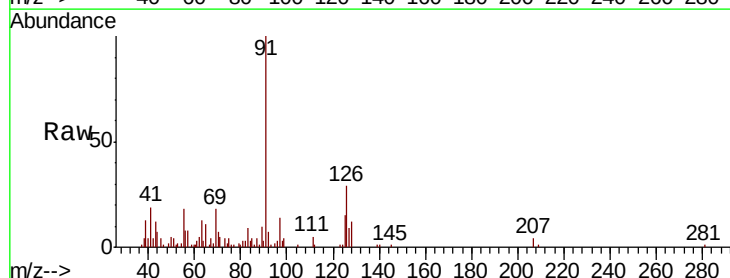
Acq: 02 Jul 2020 13:12

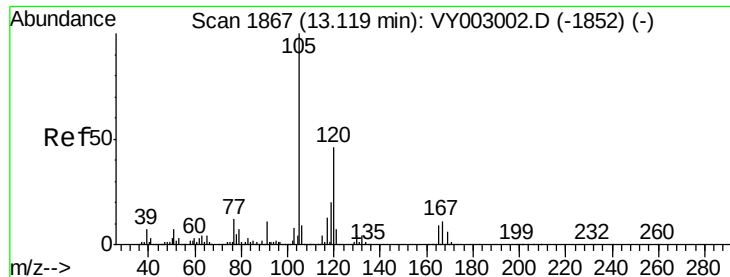
Tgt Ion: 91 Resp: 13446

Ion Ratio Lower Upper

91 100

126 34.2 17.4 52.3





#84

1,2,4-Trimethylbenzene

Concen: 22.778 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

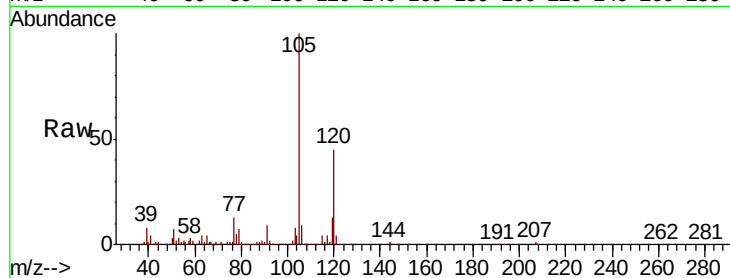
DRUM-COMP

Tot Ion:105 Resp: 126105

Ion Ratio Lower Upper

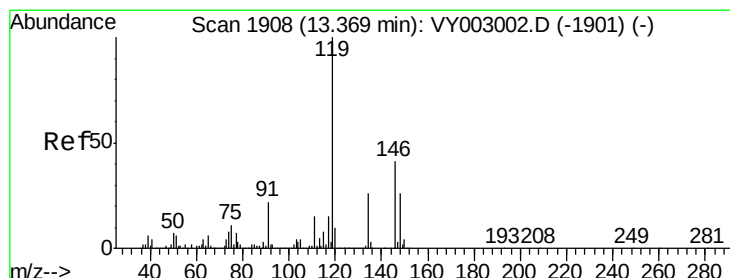
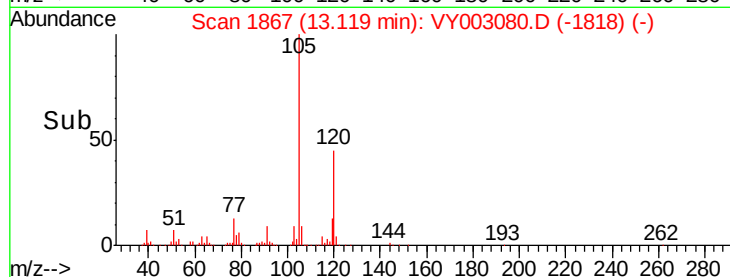
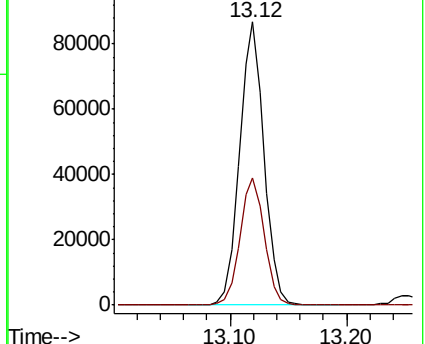
105 100

120 45.1 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#86

p-Isopropyltoluene

Concen: 1.495 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY003080.D

Acq: 02 Jul 2020 13:12

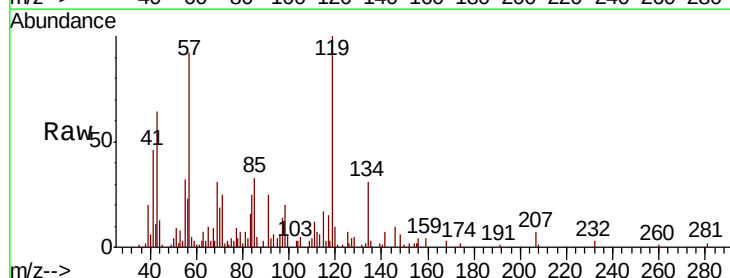
Tgt Ion:119 Resp: 9210

Ion Ratio Lower Upper

119 100

134 31.0 13.5 40.4

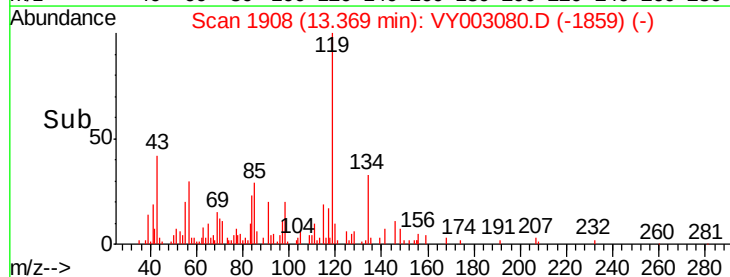
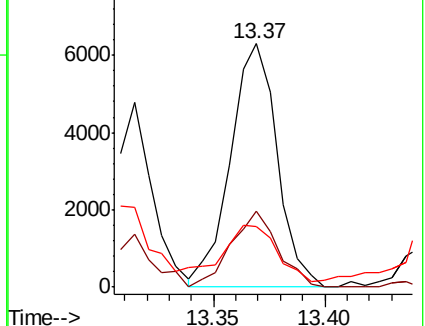
91 25.1 11.5 34.5

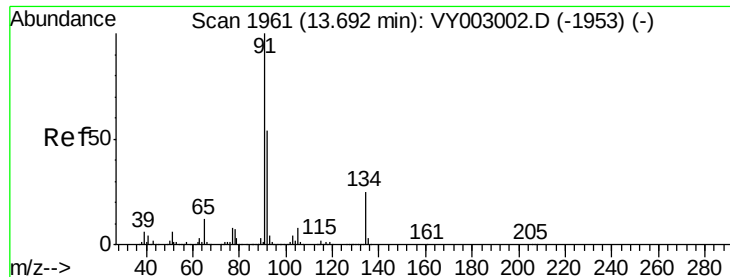


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

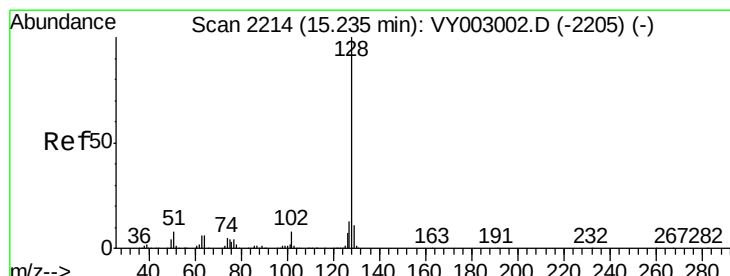
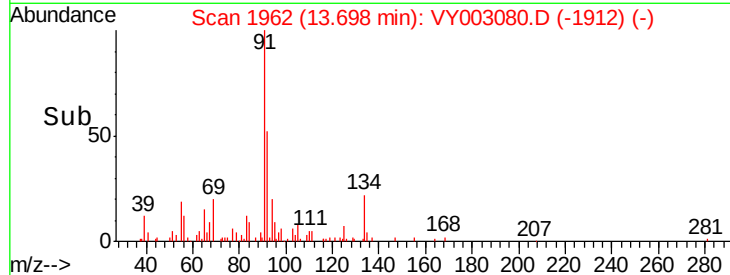
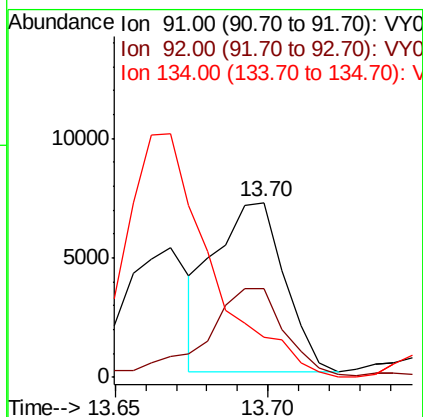
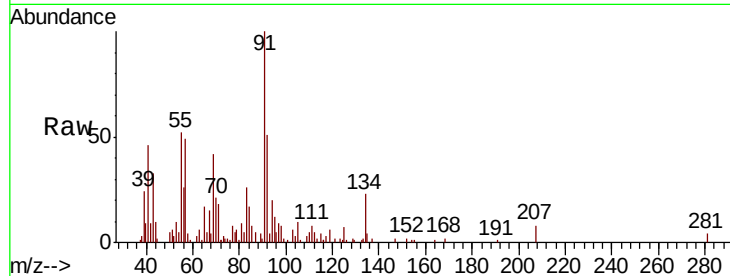




#89  
n-Butylbenzene  
Concen: 1.911 ug/l  
RT: 13.70 min Scan# 1962  
Delta R.T. 0.01 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Tot Ion: 91 Resp: 11264  
Ion Ratio Lower Upper  
91 100  
92 56.3 26.8 80.3  
134 0.0 13.1 39.1#



#95  
Naphthalene  
Concen: 31.100 ug/l  
RT: 15.23 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VY003080.D  
Acq: 02 Jul 2020 13:12

Tgt Ion: 128 Resp: 118696  
Ion Ratio Lower Upper  
128 100  
127 15.1 10.8 16.2  
129 11.1 8.8 13.2

