

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY051920\  
 Data File : VY002716.D  
 Acq On : 19 May 2020 11:56  
 Operator : SY/MD  
 Sample : L2665-01  
 Misc : 5.06G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 0374-COMP-MP-A

Quant Time: May 20 08:36:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 2020  
 Response via : Initial Calibration

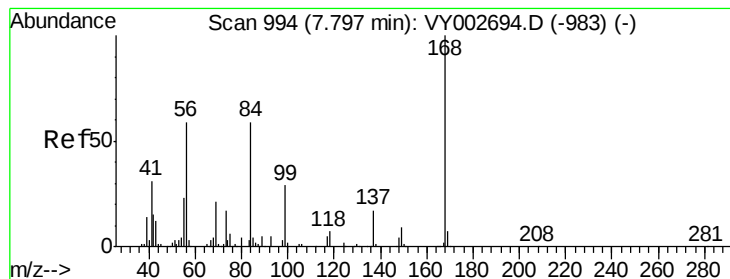
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 175411   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 271231   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 197948   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 107326   | 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   | 80203    | 58.45  | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 116.90% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 83056    | 55.49  | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 110.98% |          |
| 50) Toluene-d8              | 10.18 | 98   | 711369   | 118.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 236.08% |          |
| 62) 4-Bromofluorobenzene    | 12.47 | 95   | 217811   | 105.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 210.32% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|----------------------------|-------|------|----------|----------|--------|--------|
| 16) Acetone                | 3.96  | 43   | 99533    | 351.895  | ug/l # | 87     |
| 17) Carbon Disulfide       | 4.20  | 76   | 32401    | 6.714    | ug/l   | 98     |
| 25) 2-Butanone             | 6.99  | 43   | 55490    | 118.572  | ug/l # | 78     |
| 31) Cyclohexane            | 7.79  | 56   | 1638216  | 616.799  | ug/l   | 90     |
| 39) Methylcyclohexane      | 9.19  | 83   | 6301265  | 2040.980 | ug/l   | 96     |
| 40) Benzene                | 8.17  | 78   | 67447    | 10.067   | ug/l   | 97     |
| 67) Ethyl Benzene          | 11.60 | 91   | 517598   | 77.068   | ug/l   | 99     |
| 68) m/p-Xylenes            | 11.70 | 106  | 215050   | 82.303   | ug/l   | 94     |
| 69) o-Xylene               | 12.03 | 106  | 162300   | 66.179   | ug/l   | 93     |
| 73) Isopropylbenzene       | 12.33 | 105  | 522500   | 74.505   | ug/l   | 99     |
| 78) n-propylbenzene        | 12.67 | 91   | 713789   | 87.494   | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.81 | 105  | 721339   | 122.414  | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.12 | 105  | 1966837  | 333.982  | ug/l   | 99     |
| 85) sec-Butylbenzene       | 13.25 | 105  | 425542   | 59.134   | ug/l # | 75     |
| 86) p-Isopropyltoluene     | 13.37 | 119  | 567201   | 84.205   | ug/l   | 94     |
| 89) n-Butylbenzene         | 13.70 | 91   | 334297m  | 54.042   | ug/l   |        |
| 95) Naphthalene            | 15.23 | 128  | 568302   | 136.109  | ug/l # | 80     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

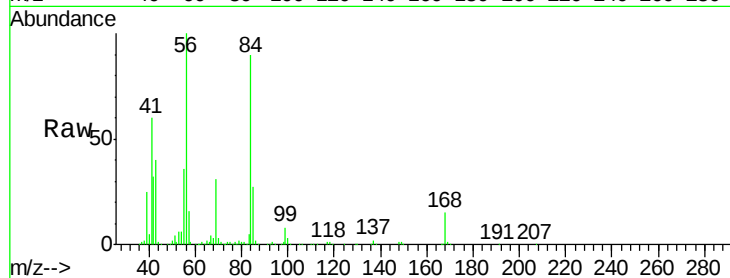
0374-COMP-MP-A

Tot Ion:168 Resp: 175411

Ion Ratio Lower Upper

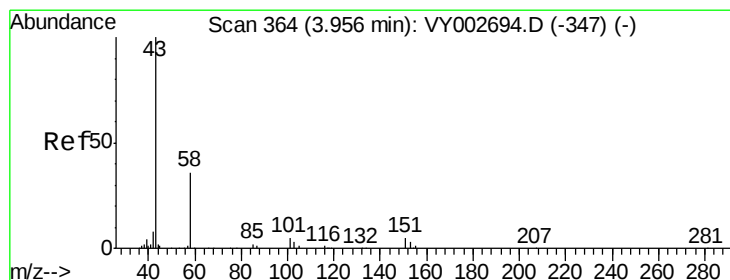
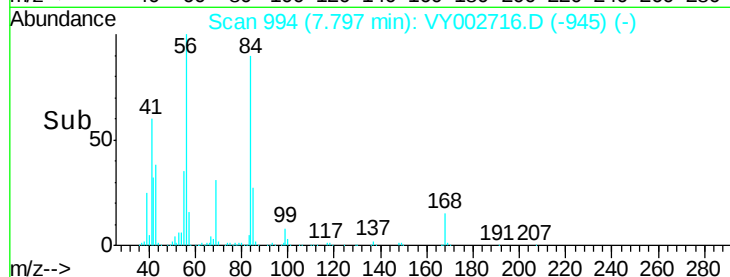
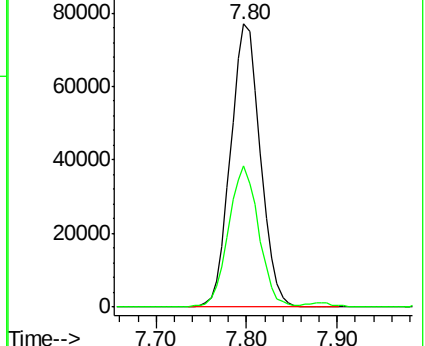
168 100

99 49.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002716.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY002716.D (-945) (-)



#16

Acetone

Concen: 351.895 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VY002716.D

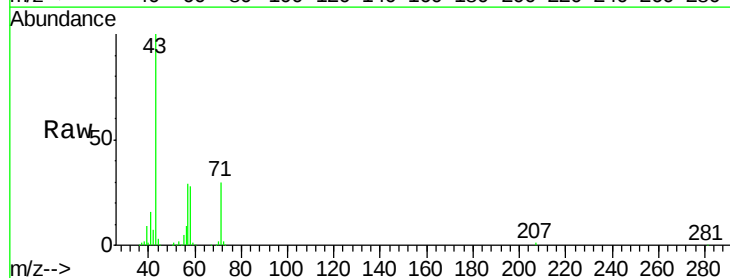
Acq: 19 May 2020 11:56

Tgt Ion: 43 Resp: 99533

Ion Ratio Lower Upper

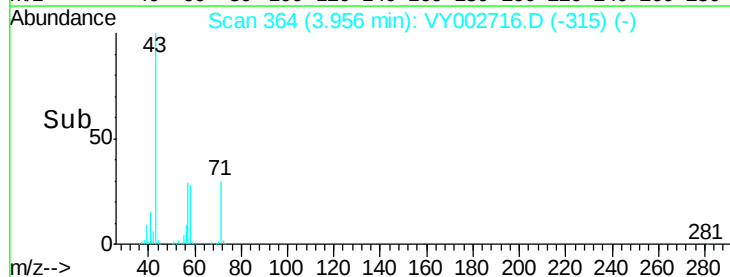
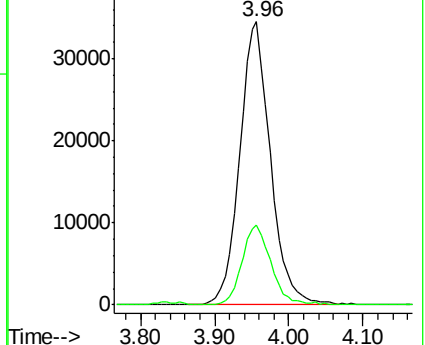
43 100

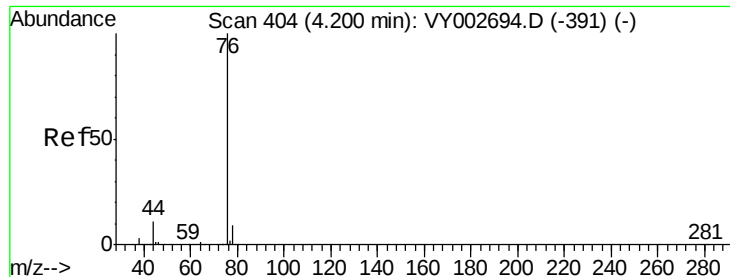
58 28.1 28.6 43.0#



Abundance Ion 43.00 (42.70 to 43.70): VY002716.D (-315) (-)

Ion 58.00 (57.70 to 58.70): VY002716.D (-315) (-)





#17

Carbon Disulfide

Concen: 6.714 ug/l

RT: 4.20 min Scan# 404

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

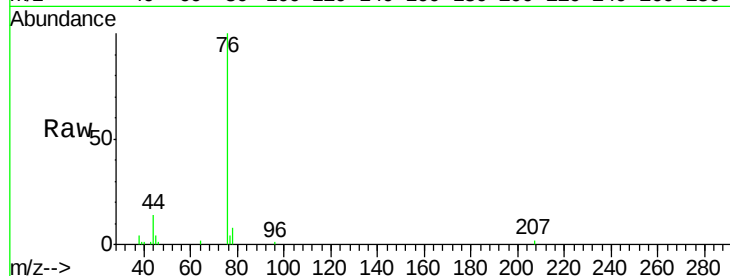
0374-COMP-MP-A

Tot Ion: 76 Resp: 32401

Ion Ratio Lower Upper

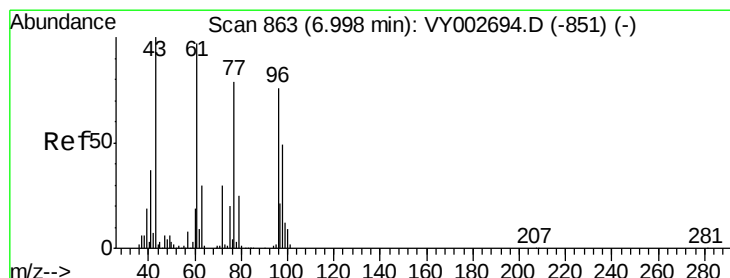
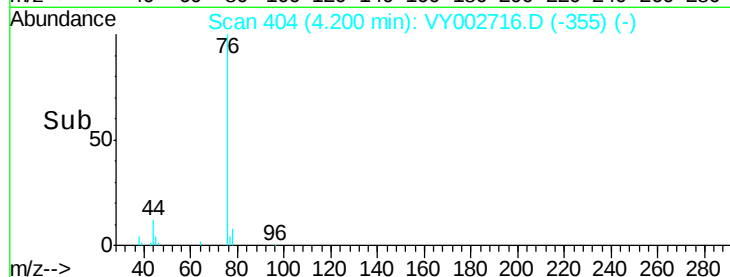
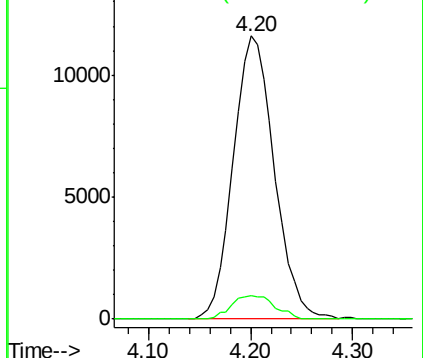
76 100

78 8.2 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#25

2-Butanone

Concen: 118.572 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.01 min

Lab File: VY002716.D

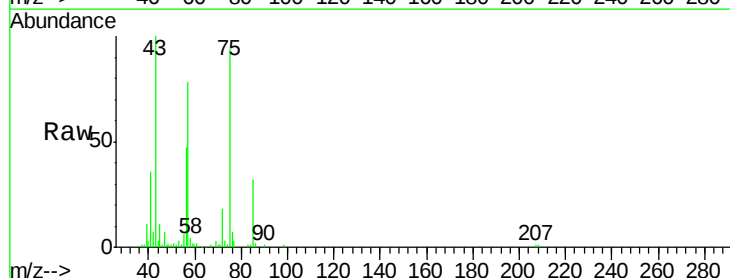
Acq: 19 May 2020 11:56

Tgt Ion: 43 Resp: 55490

Ion Ratio Lower Upper

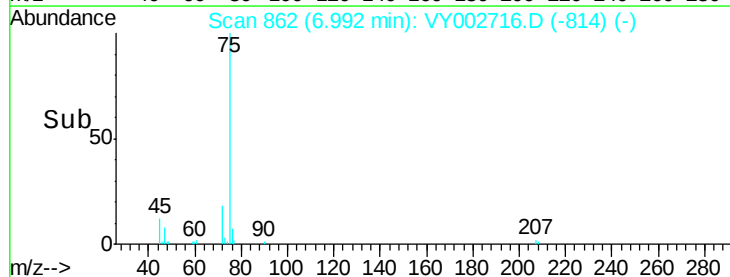
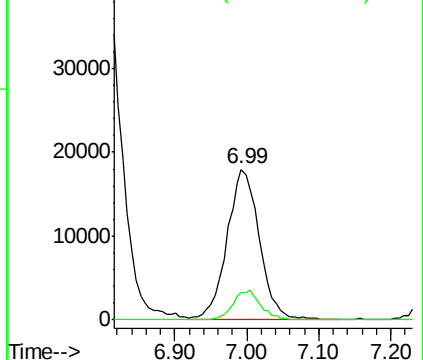
43 100

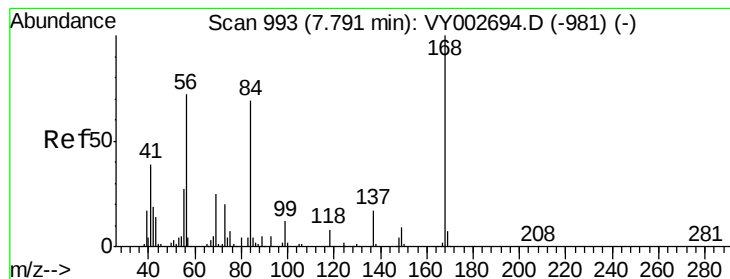
72 18.2 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0





#31

Cyclohexane

Concen: 616.799 ug/l

RT: 7.79 min Scan# 993

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

0374-COMP-MP-A

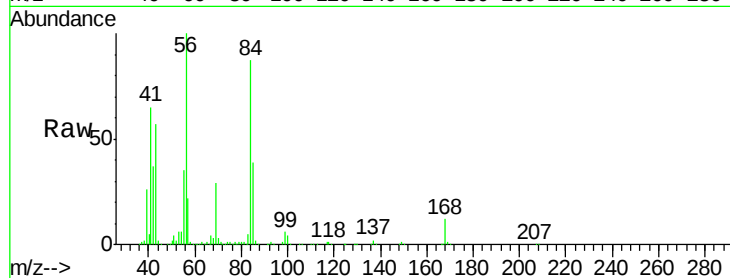
Tot Ion: 56 Resp: 1638216

Ion Ratio Lower Upper

56 100

69 28.5 27.7 41.5

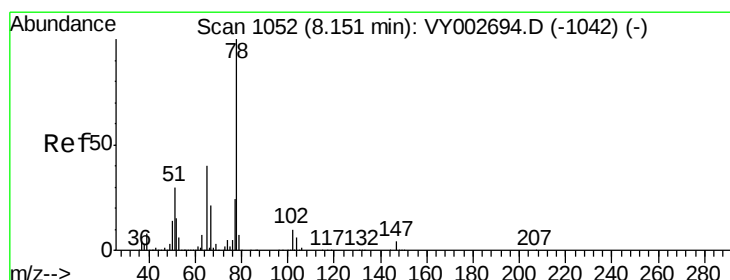
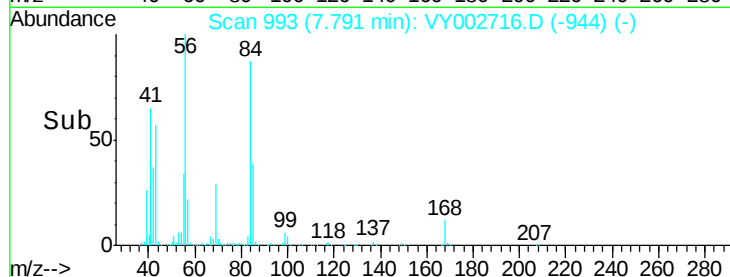
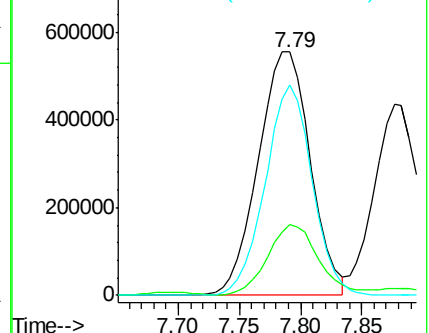
84 86.8 77.0 115.4



Abundance Ion 56.00 (55.70 to 56.70): VY002716.D (-944) (-)

Ion 69.00 (68.70 to 69.70): VY002716.D (-944) (-)

Ion 84.00 (83.70 to 84.70): VY002716.D (-944) (-)



#33

1,2-Dichloroethane-d4

Concen: 58.454 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY002716.D

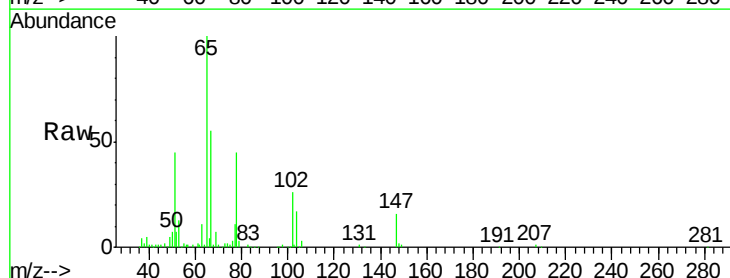
Acq: 19 May 2020 11:56

Tgt Ion: 65 Resp: 80203

Ion Ratio Lower Upper

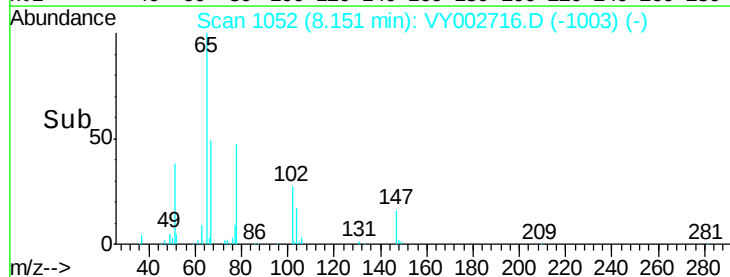
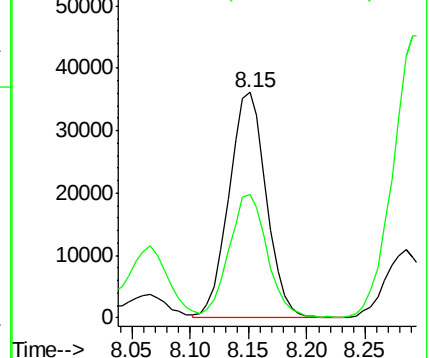
65 100

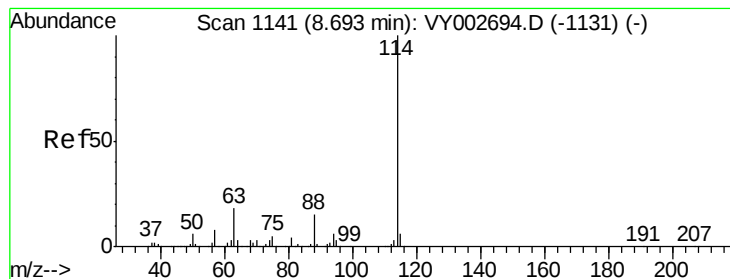
67 55.4 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VY002716.D (-1003) (-)

Ion 66.90 (66.60 to 67.60): VY002716.D (-1003) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

0374-COMP-MP-A

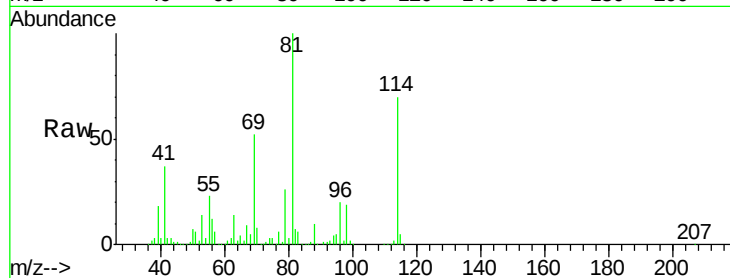
Tot Ion:114 Resp: 271231

Ion Ratio Lower Upper

114 100

63 20.3 0.0 35.4

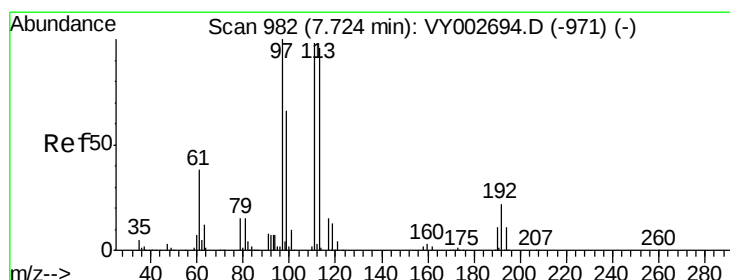
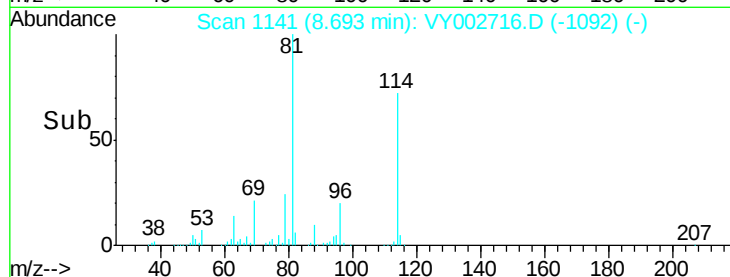
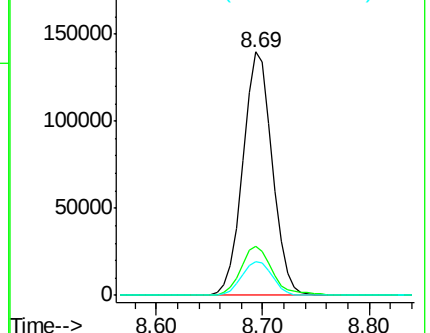
88 13.6 0.0 29.4



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: 55.487 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.01 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

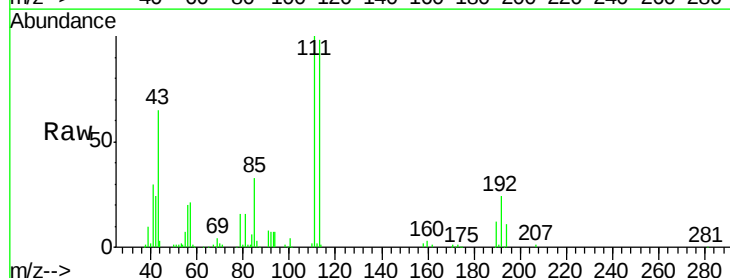
Tgt Ion:113 Resp: 83056

Ion Ratio Lower Upper

113 100

111 101.1 81.9 122.9

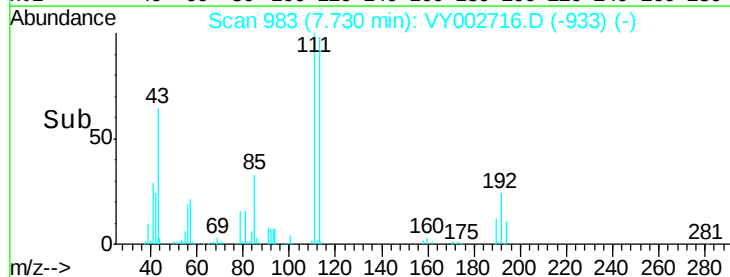
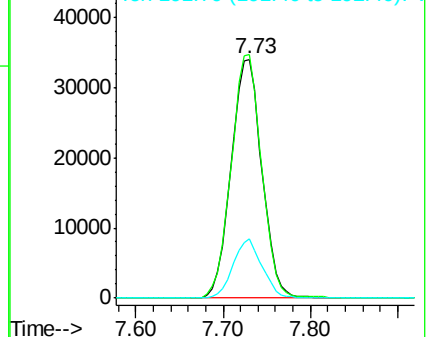
192 23.2 18.6 27.8

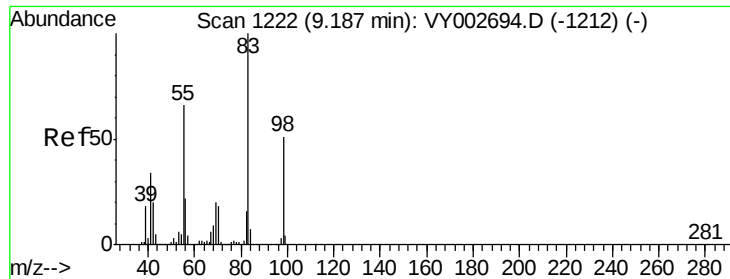


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

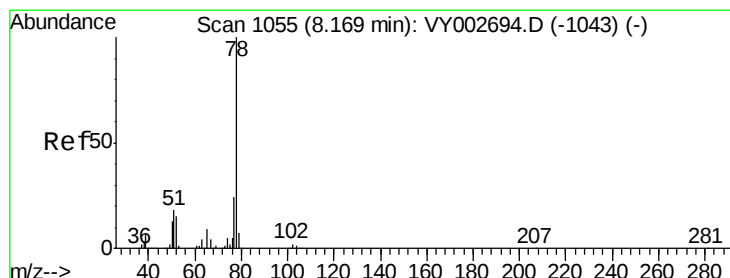
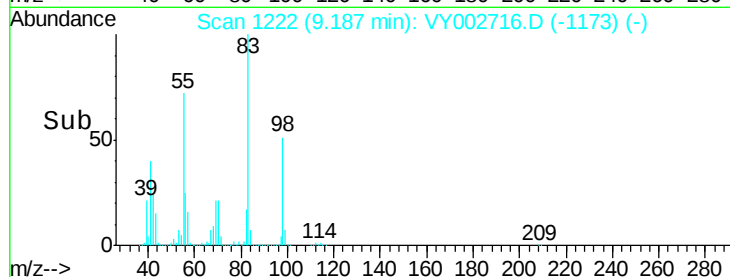
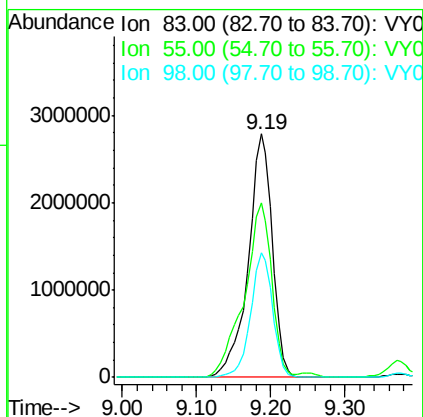
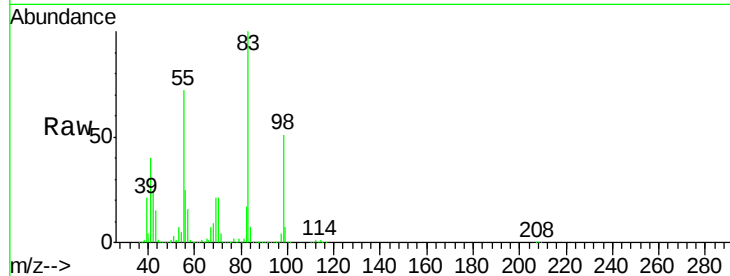




#39  
Methvlcvclohexane  
Concen: 2040.980 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

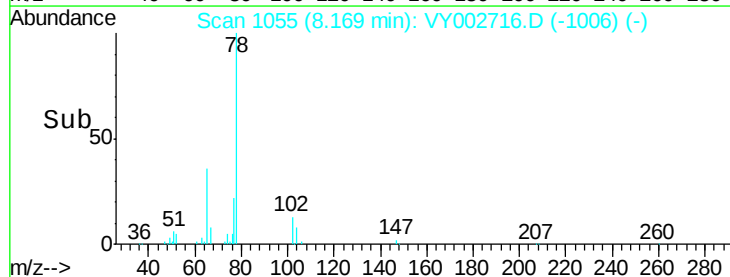
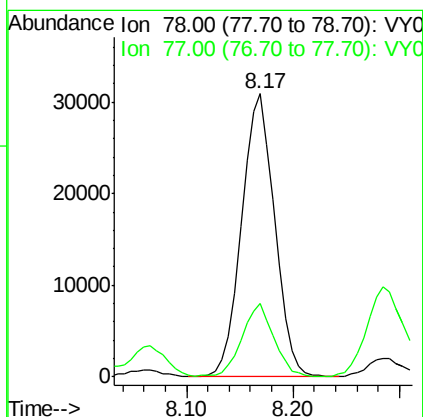
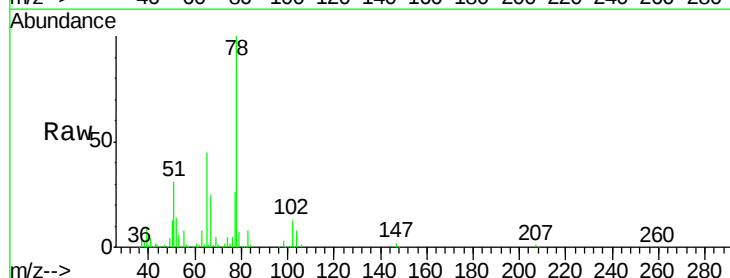
Instrument :  
MSVOA\_Y  
ClientSampleId :  
0374-COMP-MP-A

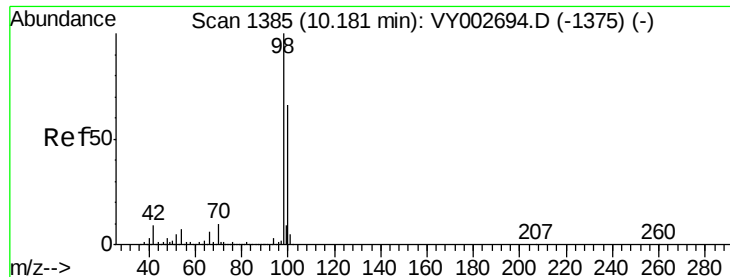
Tot Ion: 83 Resp: 6301265  
Ion Ratio Lower Upper  
83 100  
55 71.8 53.0 79.6  
98 51.3 40.8 61.2



#40  
Benzene  
Concen: 10.067 ug/l  
RT: 8.17 min Scan# 1055  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

Tgt Ion: 78 Resp: 67447  
Ion Ratio Lower Upper  
78 100  
77 25.3 19.2 28.8





#50

Toluene-d8

Concen: 118.040 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

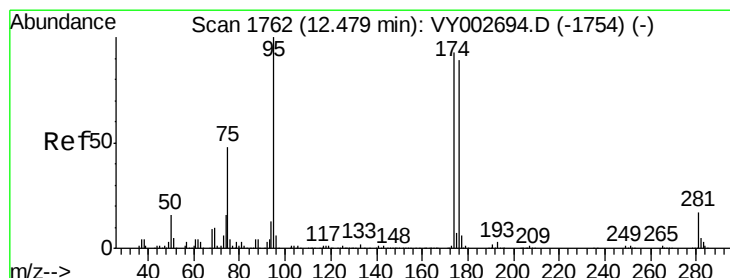
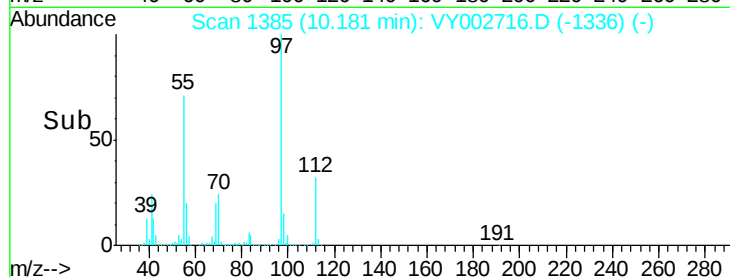
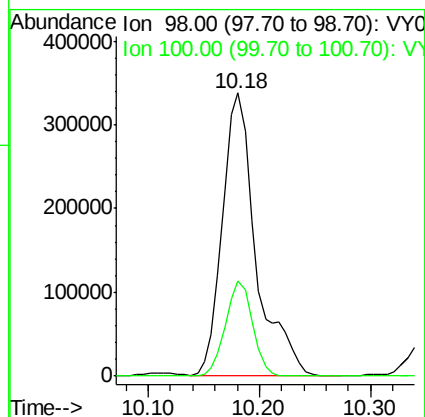
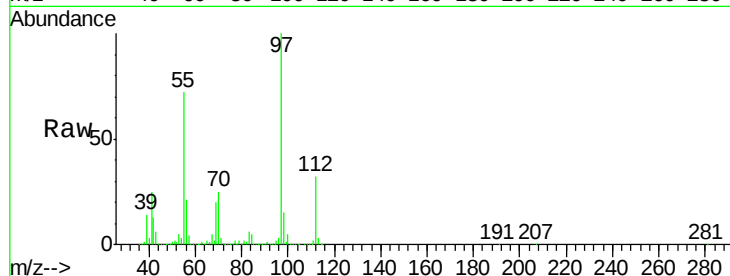
0374-COMP-MP-A

Tot Ion: 98 Resp: 711369

Ion Ratio Lower Upper

98 100

100 26.9 52.3 78.5#



#62

4-Bromofluorobenzene

Concen: 105.155 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

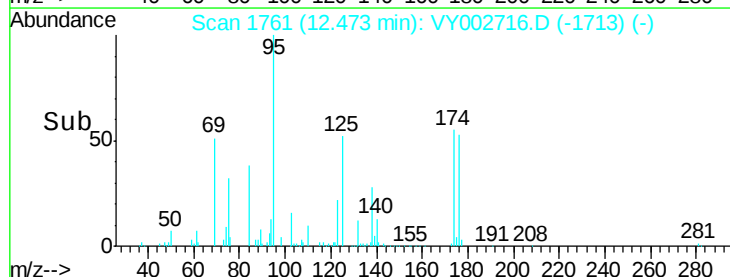
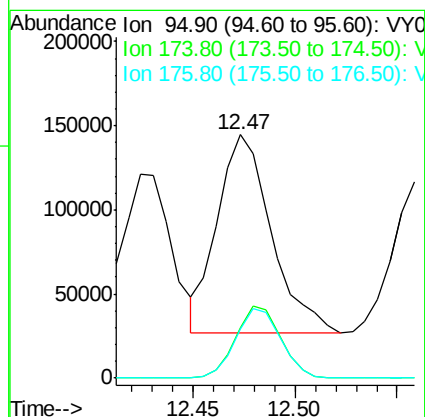
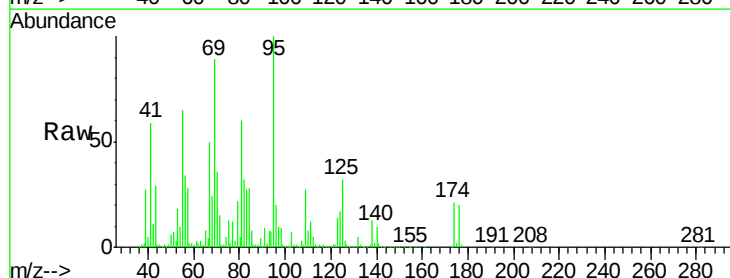
Tgt Ion: 95 Resp: 217811

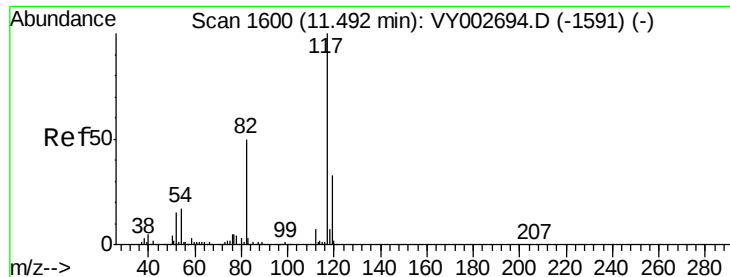
Ion Ratio Lower Upper

95 100

174 30.4 0.0 191.4

176 29.5 0.0 186.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

0374-COMP-MP-A

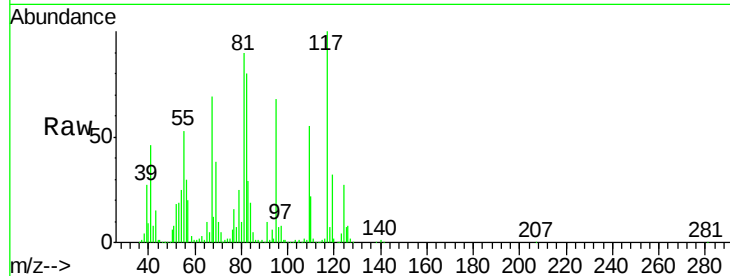
Tot Ion:117 Resp: 197948

Ion Ratio Lower Upper

117 100

82 16.0 40.3 60.5#

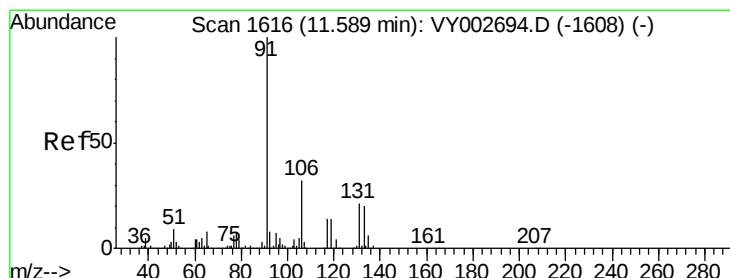
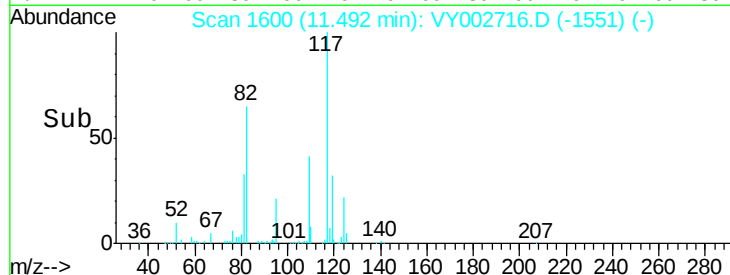
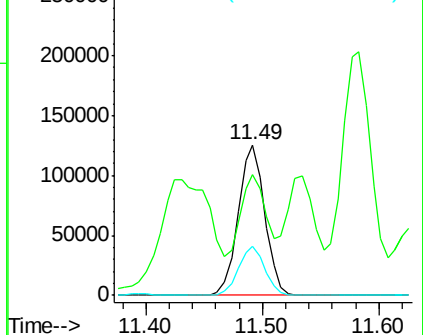
119 32.2 26.2 39.4



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: 77.068 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. 0.01 min

Lab File: VY002716.D

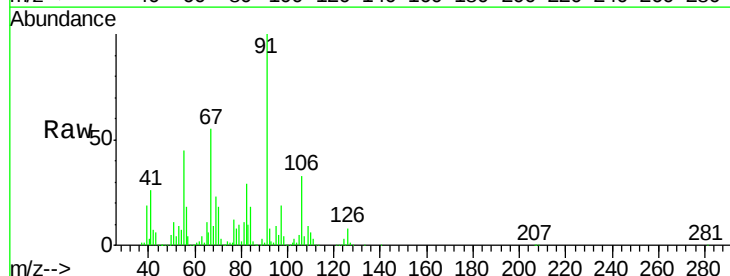
Acq: 19 May 2020 11:56

Tgt Ion: 91 Resp: 517598

Ion Ratio Lower Upper

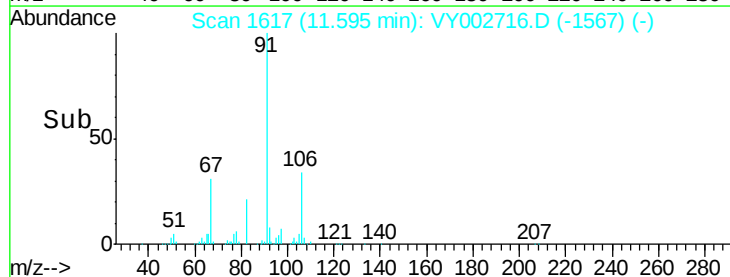
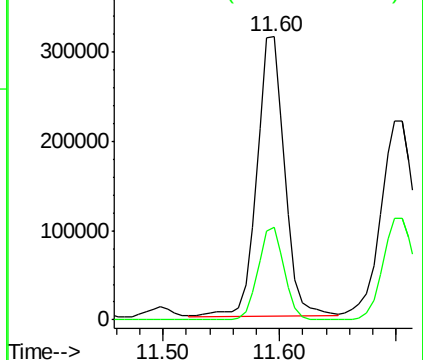
91 100

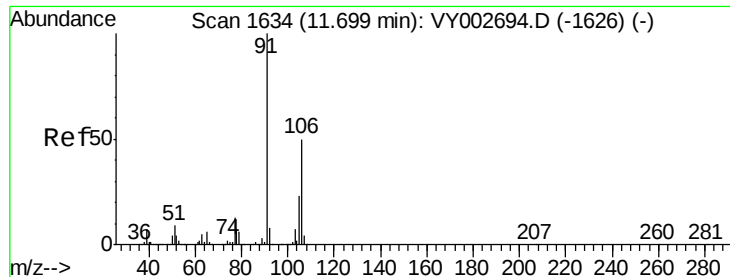
106 33.3 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 106.00 (105.70 to 106.70): V

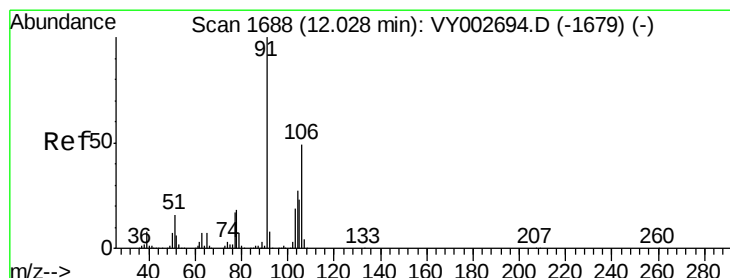
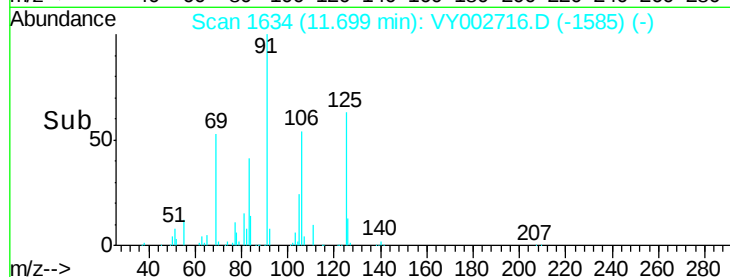
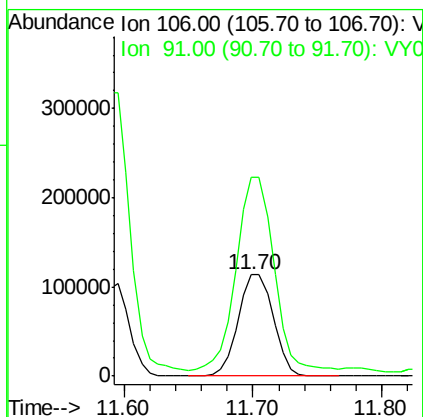
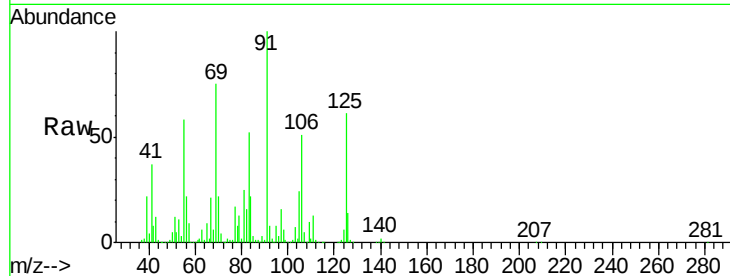




#68  
m/p-Xylenes  
Concen: 82.303 ug/l  
RT: 11.70 min Scan# 1634  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

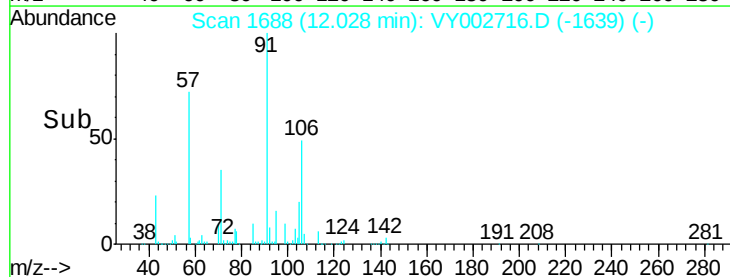
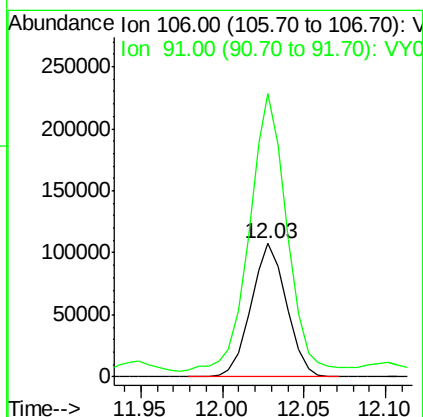
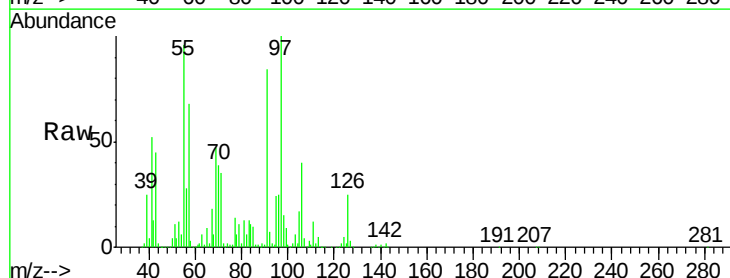
Instrument :  
MSVOA\_Y  
ClientSampleId :  
0374-COMP-MP-A

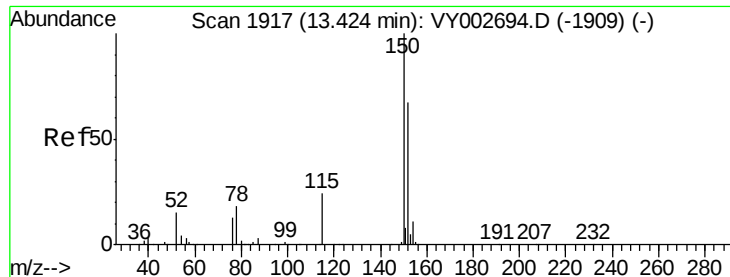
Tot Ion:106 Resp: 215050  
Ion Ratio Lower Upper  
106 100  
91 204.2 156.2 234.4



#69  
o-Xylene  
Concen: 66.179 ug/l  
RT: 12.03 min Scan# 1688  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

Tgt Ion:106 Resp: 162300  
Ion Ratio Lower Upper  
106 100  
91 217.5 103.5 310.3



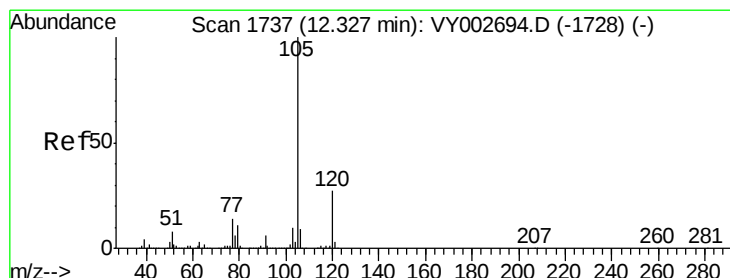
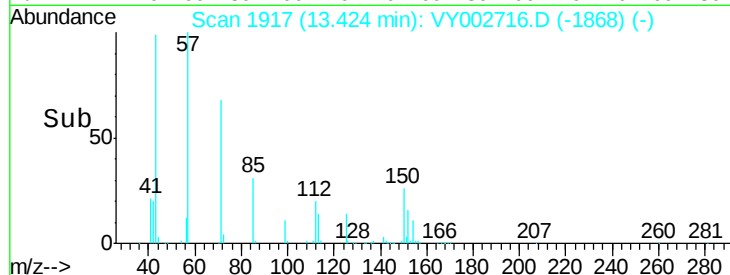
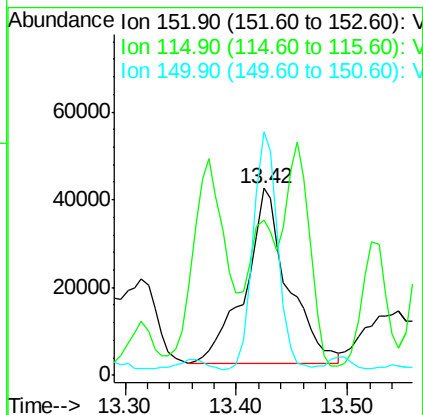
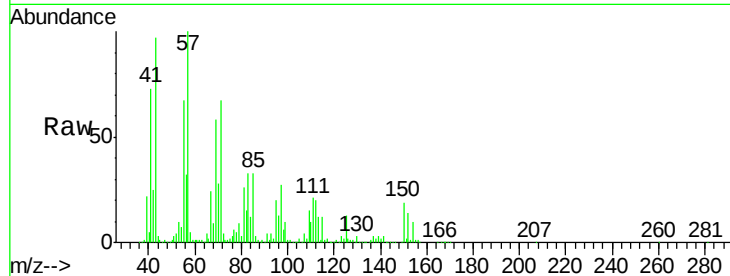


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0374-COMP-MP-A

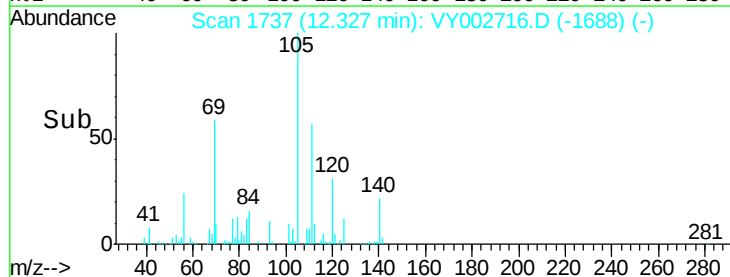
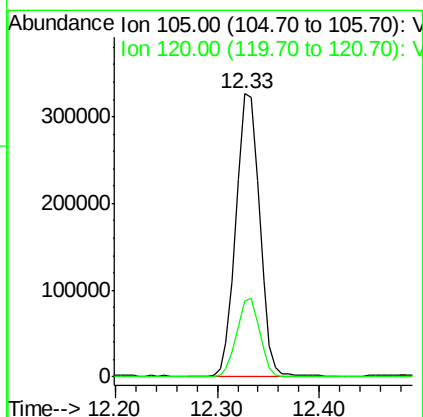
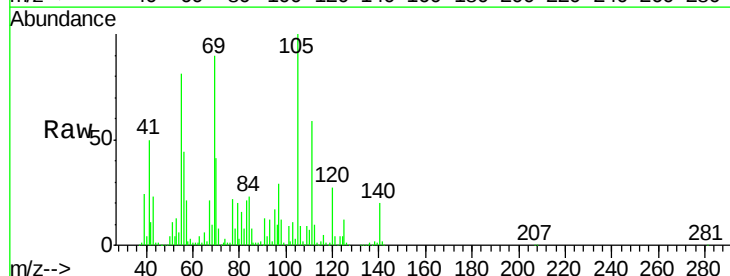
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 44.7  | 27.2  | 81.6  |
| 150     | 78.4  | 0.0   | 343.8 |

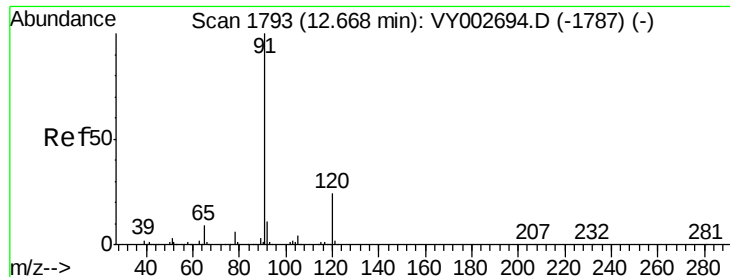


#73

Isopropylbenzene  
Concen: 74.505 ug/l  
RT: 12.33 min Scan# 1737  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.8  | 13.7  | 41.1  |





#78

n-propylbenzene

Concen: 87.494 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

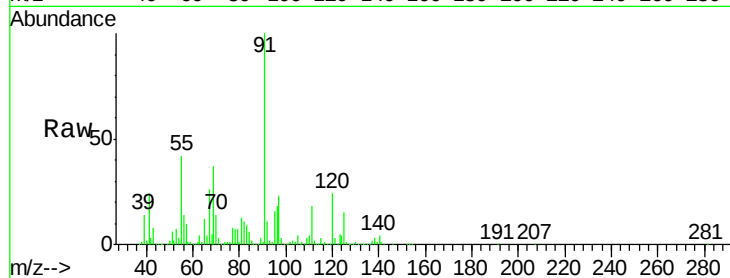
0374-COMP-MP-A

Tot Ion: 91 Resp: 713789

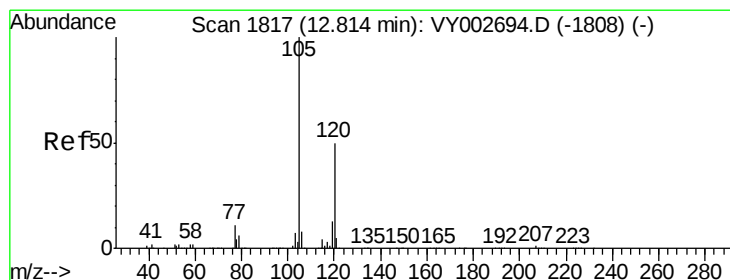
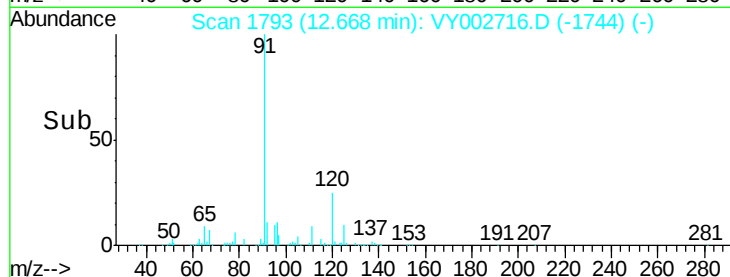
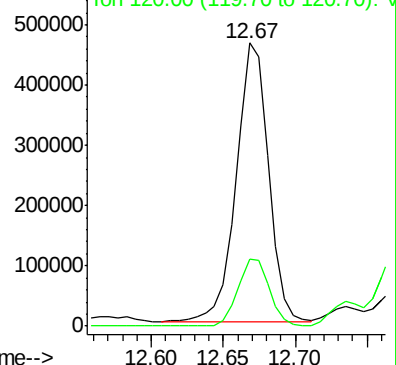
Ion Ratio Lower Upper

91 100

120 23.7 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): VY002716.D (-1744) (-)



#80

1,3,5-Trimethylbenzene

Concen: 122.414 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VY002716.D

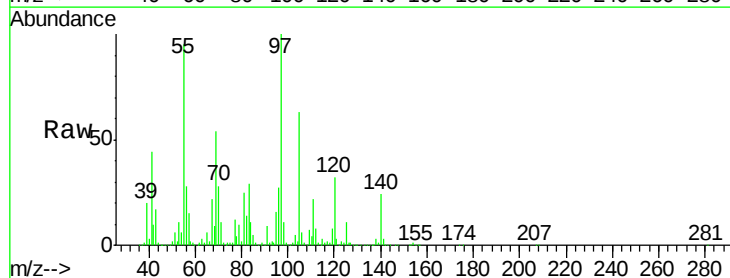
Acq: 19 May 2020 11:56

Tgt Ion: 105 Resp: 721339

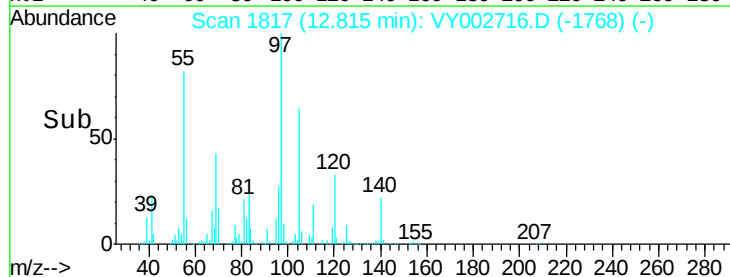
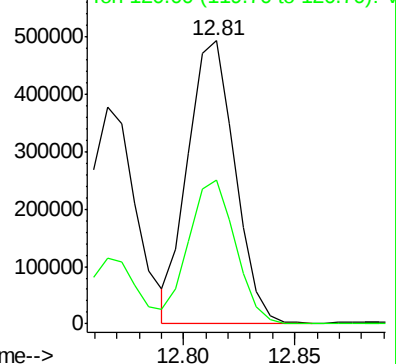
Ion Ratio Lower Upper

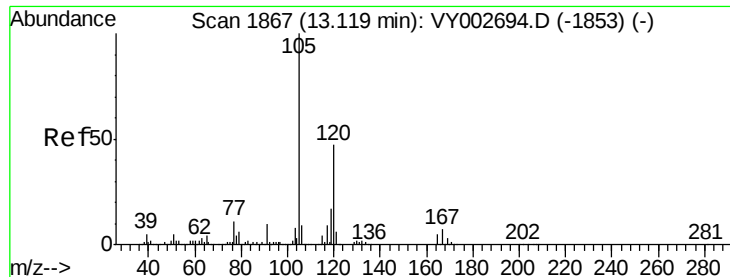
105 100

120 50.6 25.1 75.4



Abundance Ion 105.00 (104.70 to 105.70): VY002716.D (-1768) (-)





#84

1,2,4-Trimethylbenzene

Concen: 333.982 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY002716.D

Acq: 19 May 2020 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

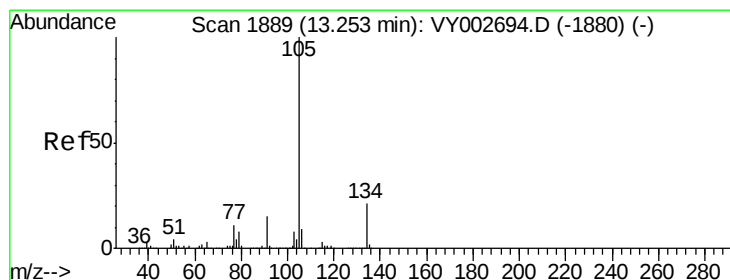
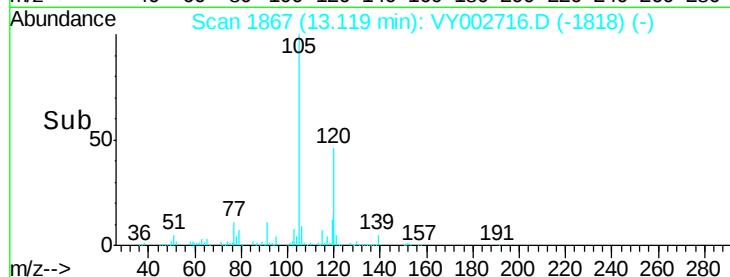
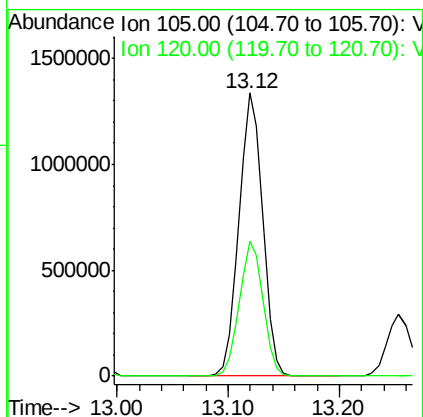
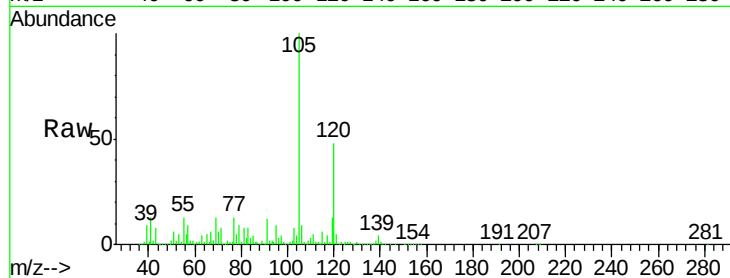
0374-COMP-MP-A

Tot Ion:105 Resp: 1966837

Ion Ratio Lower Upper

105 100

120 47.5 23.5 70.5



#85

sec-Butylbenzene

Concen: 59.134 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY002716.D

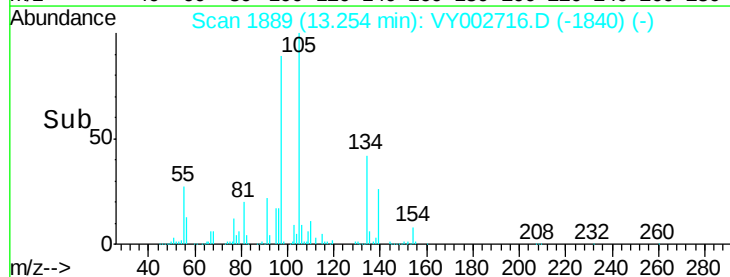
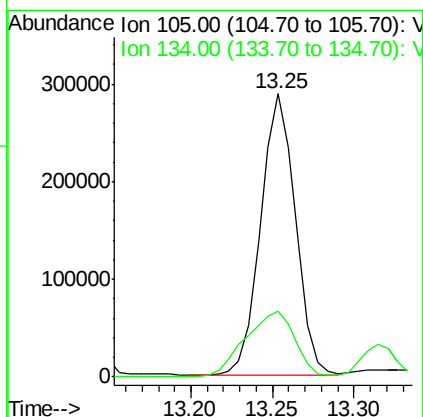
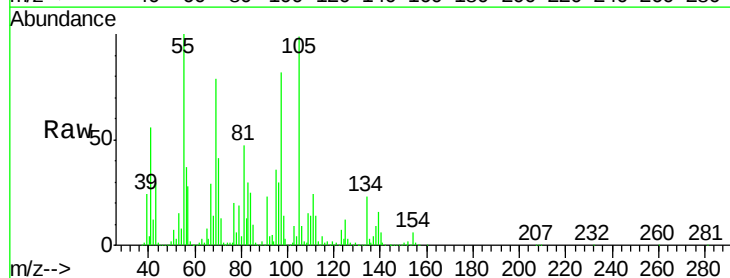
Acq: 19 May 2020 11:56

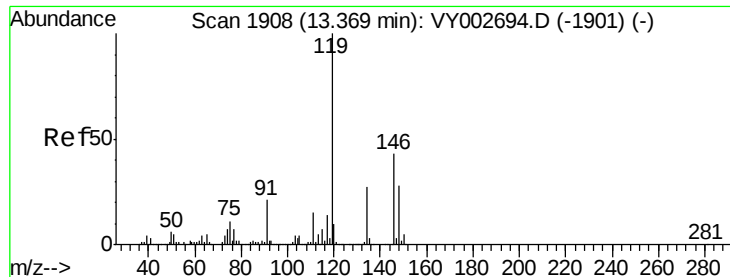
Tgt Ion:105 Resp: 425542

Ion Ratio Lower Upper

105 100

134 33.4 10.8 32.3#

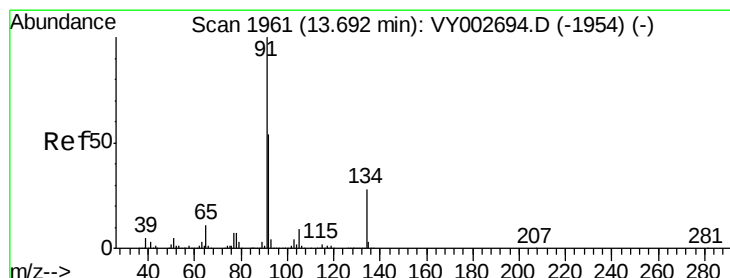
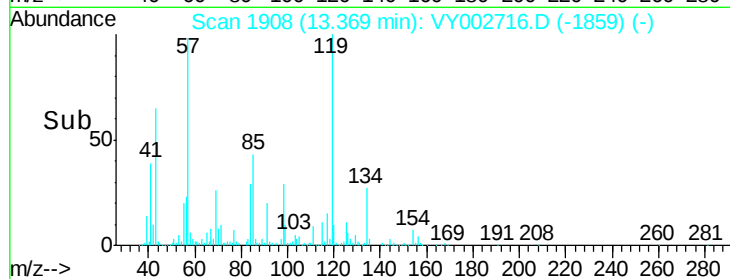
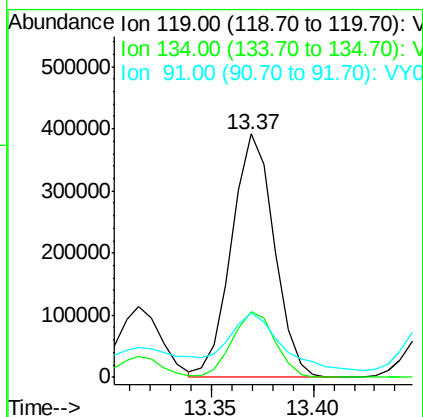
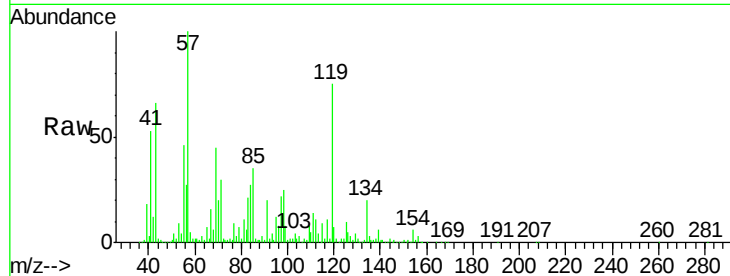




#86  
p-Isopropyltoluene  
Concen: 84.205 ug/l  
RT: 13.37 min Scan# 1908  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

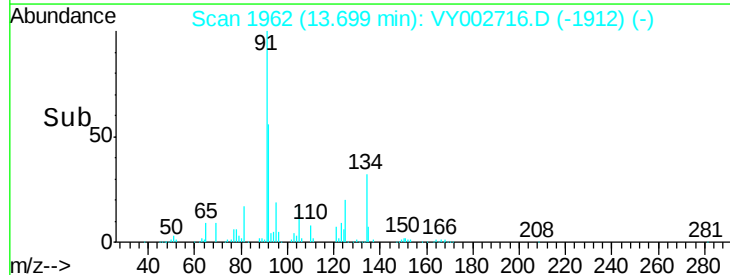
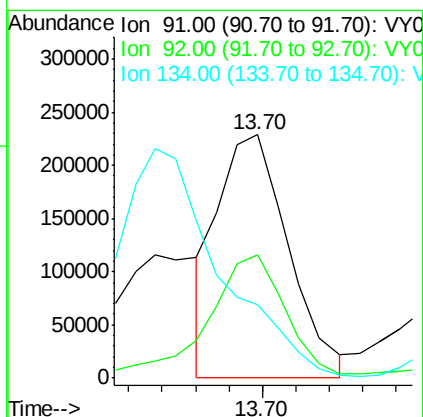
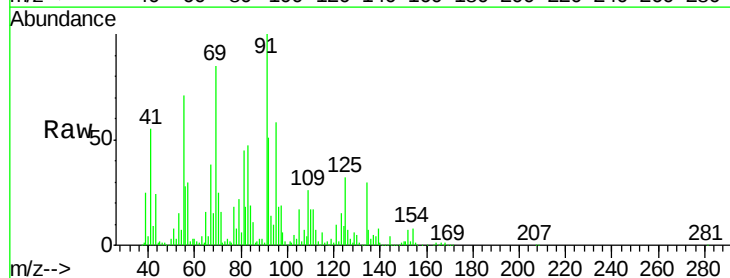
Instrument :  
MSVOA\_Y  
ClientSampleId :  
0374-COMP-MP-A

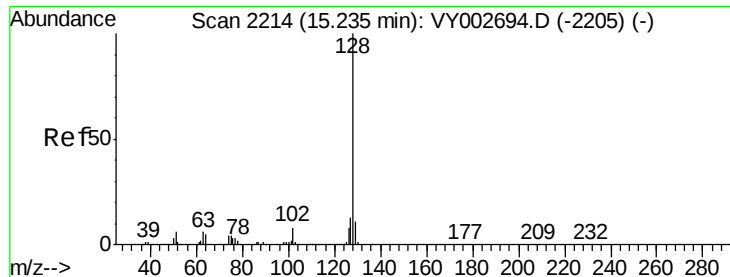
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.2  | 13.5  | 40.5  |
| 91      | 27.7  | 10.8  | 32.3  |



#89  
n-Butylbenzene  
Concen: 54.042 ug/l m  
RT: 13.70 min Scan# 1962  
Delta R.T. 0.01 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 53.9  | 26.8  | 80.4  |
| 134     | 0.0   | 14.5  | 43.5# |

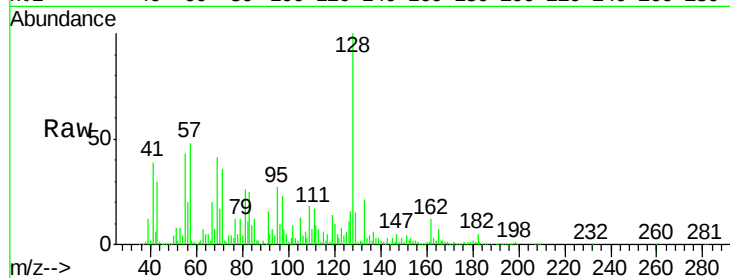




#95  
Naphthalene  
Concen: 136.109 ug/l  
RT: 15.23 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VY002716.D  
Acq: 19 May 2020 11:56

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0374-COMP-MP-A

Tot Ion:128 Resp: 568302  
Ion Ratio Lower Upper  
128 100  
127 18.3 10.3 15.5#  
129 21.3 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

