

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY042320\  
 Data File : VY002464.D  
 Acq On : 23 Apr 2020 17:02  
 Operator : SY/MD  
 Sample : L2351-01RE  
 Misc : 6.75G/5ML/MSVOA Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 24 01:33:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y042320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 14:11:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 272687   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 419110   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 361154   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 156951   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 134789   | 56.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.10% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 94475    | 39.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.92%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 489429   | 51.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.02% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 143156   | 44.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.80%  |          |

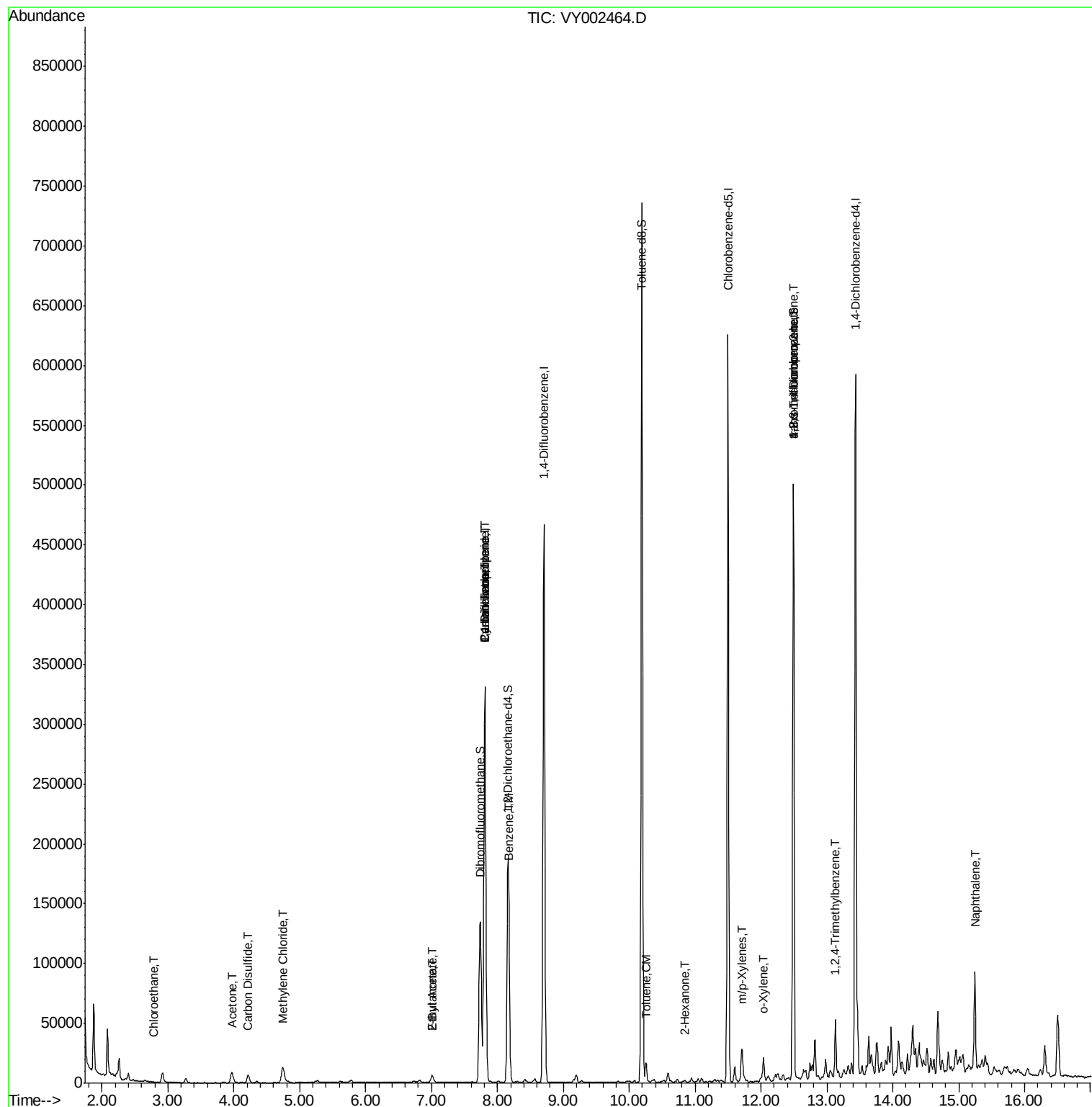
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 6) Chloroethane                | 2.79  | 64   | 19       | 2.873   | ug/l # | 41     |
| 16) Acetone                    | 3.97  | 43   | 15736    | 31.593  | ug/l   | 100    |
| 17) Carbon Disulfide           | 4.22  | 76   | 13648    | 1.875   | ug/l   | 98     |
| 20) Methylene Chloride         | 4.75  | 84   | 10791    | 3.795   | ug/l   | 85     |
| 25) 2-Butanone                 | 7.01  | 43   | 7266     | 9.522   | ug/l   | 99     |
| 31) Cyclohexane                | 7.81  | 56   | 6540     | 1.593   | ug/l # | 27     |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 16616    | 4.624   | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.01  | 43   | 7266     | 4.025   | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 24910    | 6.028   | ug/l # | 15     |
| 40) Benzene                    | 8.18  | 78   | 38698    | 3.726   | ug/l   | 99     |
| 52) Toluene                    | 10.25 | 92   | 6962     | 1.041   | ug/l   | 100    |
| 59) 2-Hexanone                 | 10.84 | 43   | 1790     | 1.464   | ug/l   | 69     |
| 68) m/p-Xylenes                | 11.71 | 106  | 9424     | 1.973   | ug/l   | 90     |
| 69) o-Xylene                   | 12.03 | 106  | 4872     | 1.101   | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 72338    | 54.379  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 72338    | 100.628 | ug/l # | 15     |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 25859    | 3.026   | ug/l   | 98     |
| 95) Naphthalene                | 15.25 | 128  | 72358    | 11.793  | ug/l   | 98     |

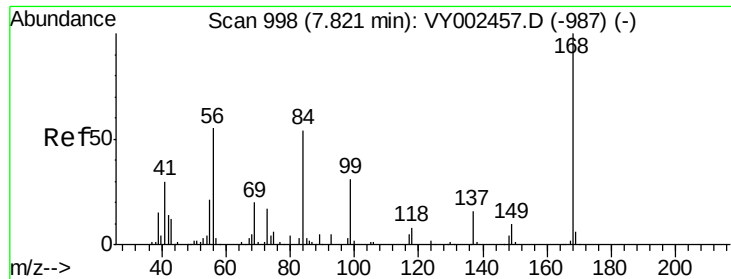
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY042320\  
Data File : VY002464.D  
Acq On : 23 Apr 2020 17:02  
Operator : SY/MD  
Sample : L2351-01RE  
Misc : 6.75G/5ML/MSVOA Y/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Apr 24 01:33:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y042320S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 23 14:11:26 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

Instrument :

MSVOA\_Y

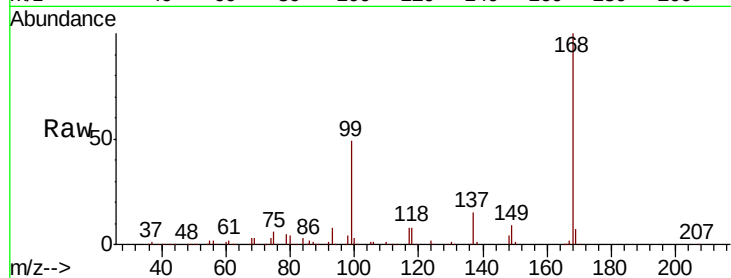
ClientSampled :

Tot Ion:168 Resp: 272687

Ion Ratio Lower Upper

168 100

99 48.8 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): VY002457.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY002457.D (-987) (-)

7.81

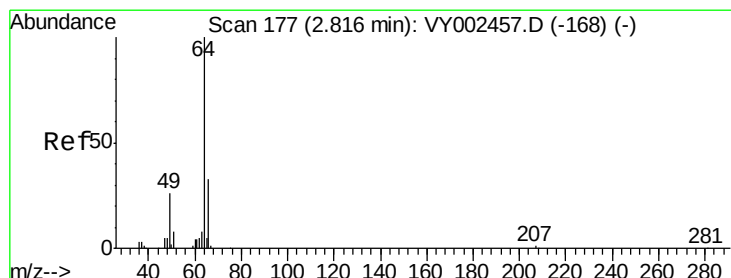
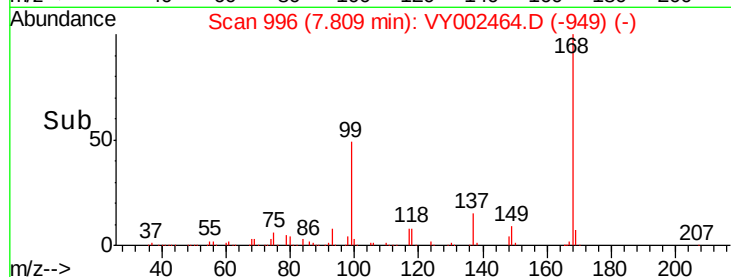
100000

50000

0

7.70 7.80 7.90

Time-->



#6

Chloroethane

Concen: 2.873 ug/l

RT: 2.79 min Scan# 172

Delta R.T. -0.03 min

Lab File: VY002464.D

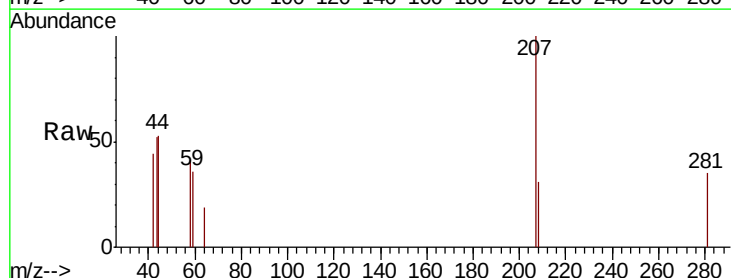
Acq: 23 Apr 2020 17:02

Tgt Ion: 64 Resp: 19

Ion Ratio Lower Upper

64 100

66 0.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VY002457.D (-168) (-)

Ion 65.90 (65.60 to 66.60): VY002457.D (-168) (-)

2.79

60

50

40

30

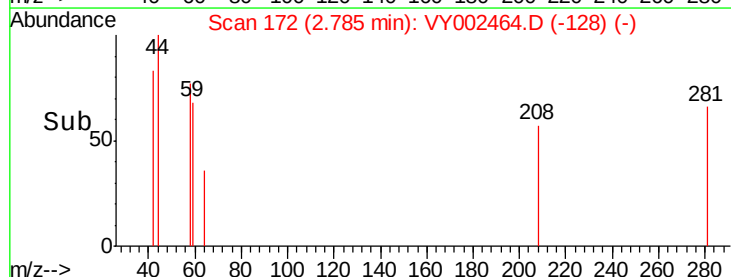
20

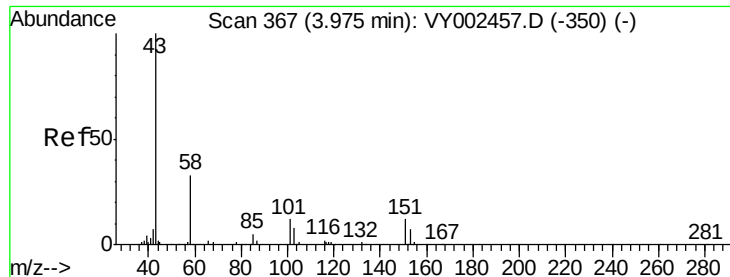
10

0

2.77 2.78 2.79 2.80

Time-->

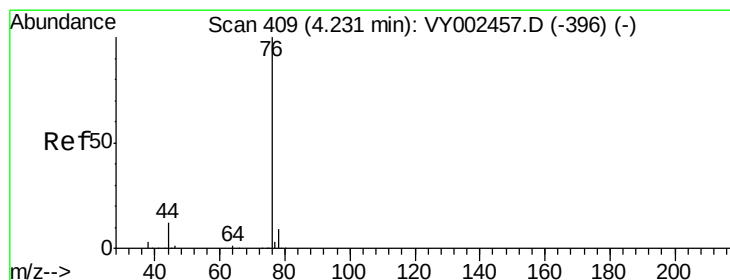
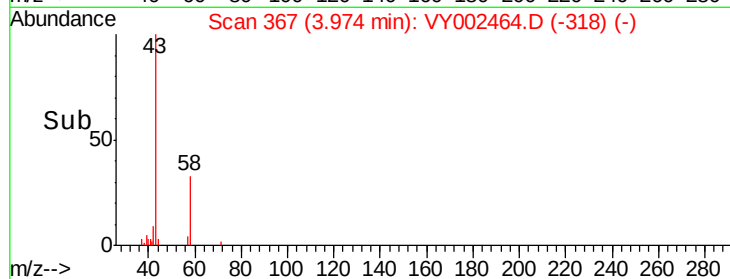
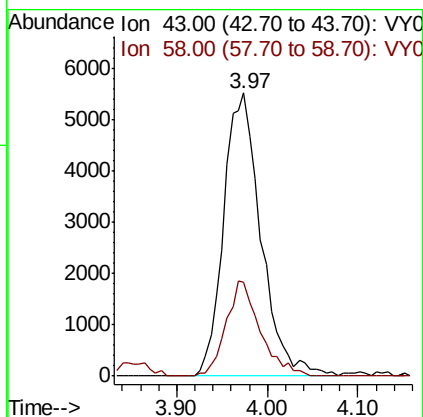
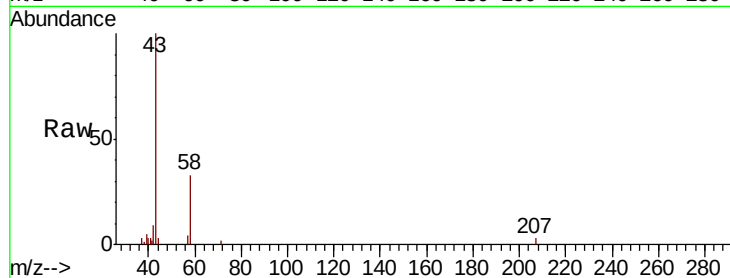




#16  
Acetone  
Concen: 31.593 ug/l  
RT: 3.97 min Scan# 367  
Delta R.T. -0.00 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

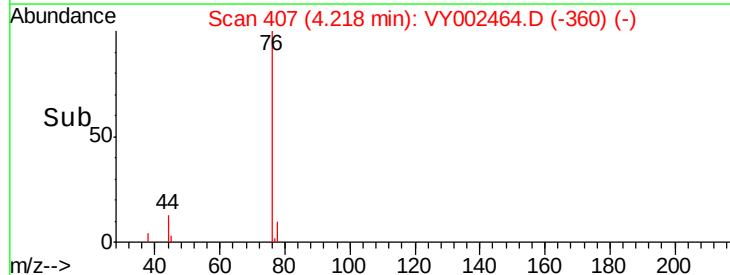
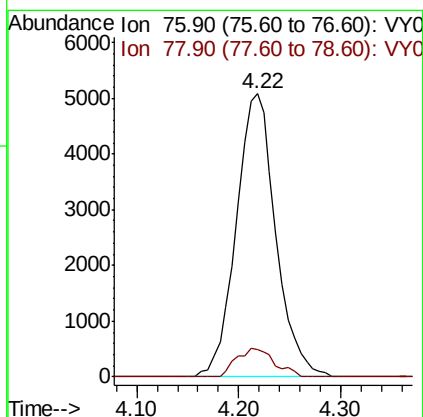
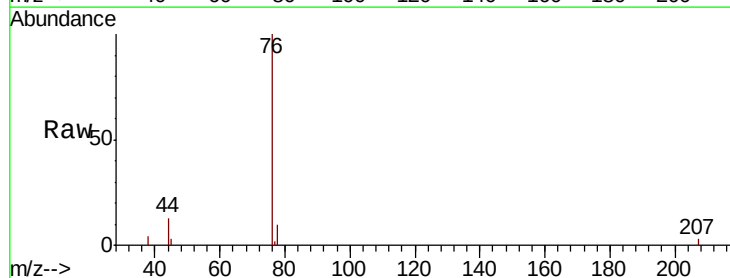
Instrument :  
MSVOA\_Y  
ClientSampleId :

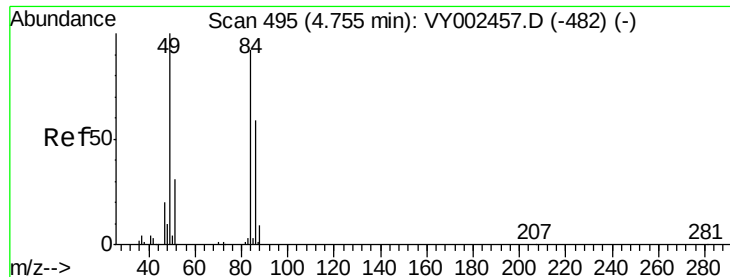
Tot Ion: 43 Resp: 15736  
Ion Ratio Lower Upper  
43 100  
58 33.1 26.4 39.6



#17  
Carbon Disulfide  
Concen: 1.875 ug/l  
RT: 4.22 min Scan# 407  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Tgt Ion: 76 Resp: 13648  
Ion Ratio Lower Upper  
76 100  
78 9.7 7.3 10.9

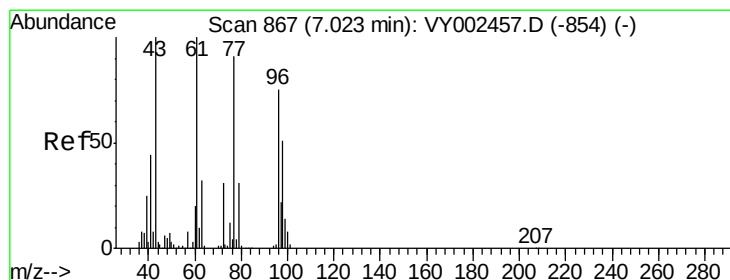
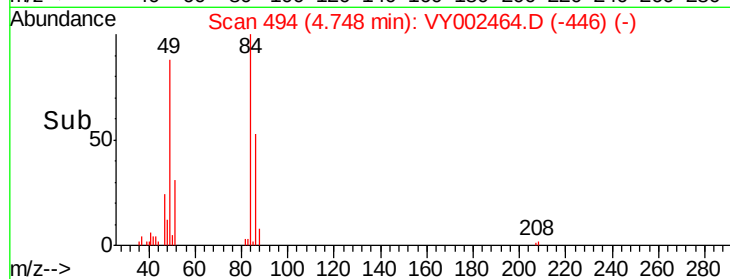
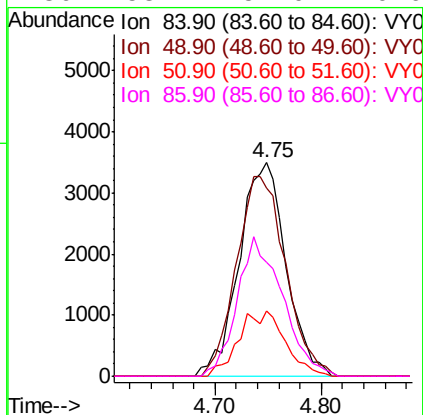
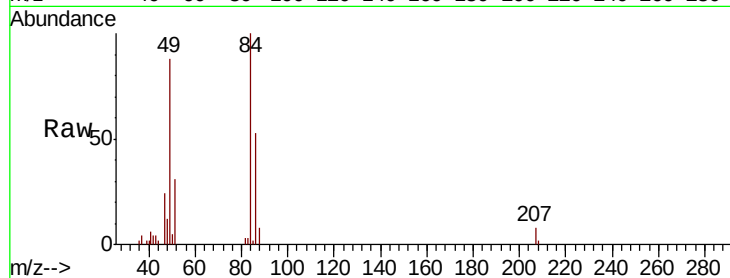




#20  
Methylene Chloride  
Concen: 3.795 ug/l  
RT: 4.75 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

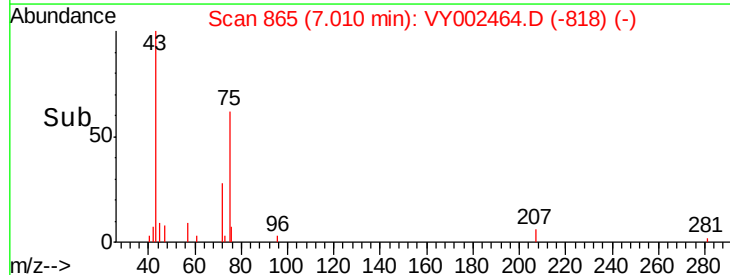
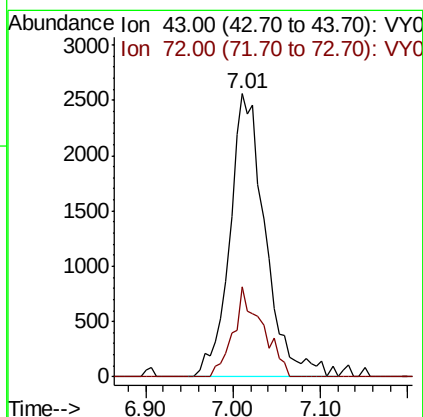
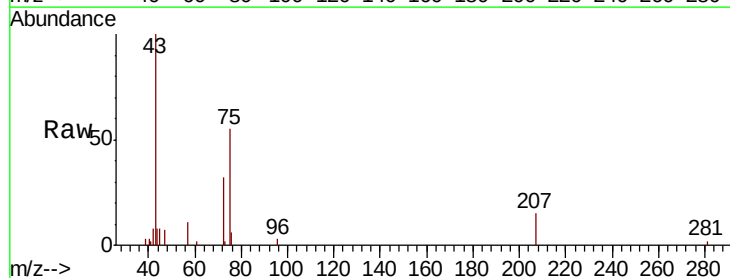
Instrument :  
MSVOA\_Y  
ClientSampleId :

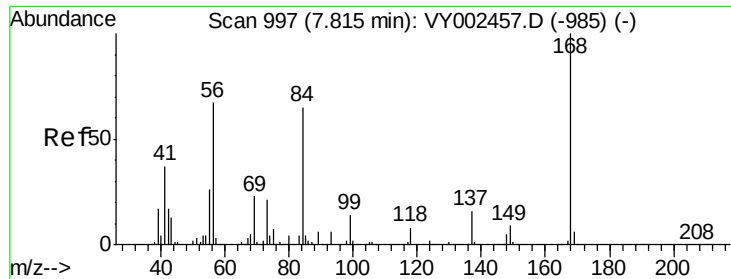
|             |             |
|-------------|-------------|
| Tot Ion: 84 | Resp: 10791 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 88.0     | 86.9 130.3  |
| 51 30.6     | 27.3 40.9   |
| 86 53.4     | 51.0 76.6   |



#25  
2-Butanone  
Concen: 9.522 ug/l  
RT: 7.01 min Scan# 865  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 43 | Resp: 7266 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 43 100      |            |       |  |
| 72 31.6     | 24.8       | 37.2  |  |

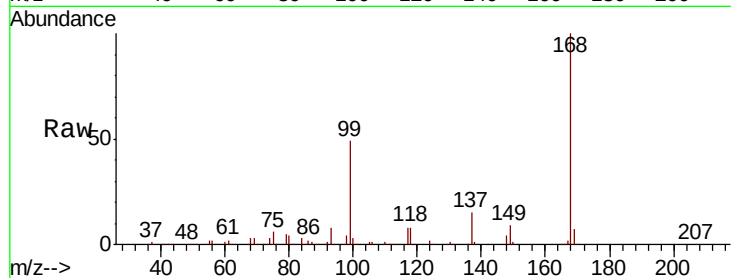




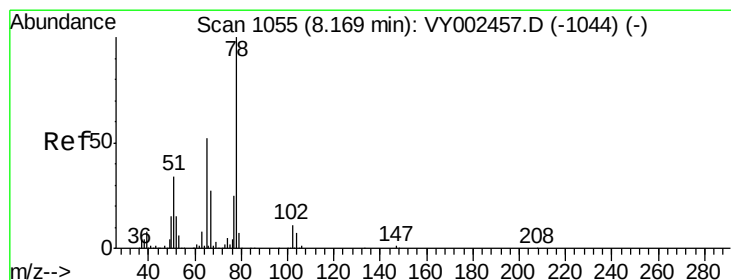
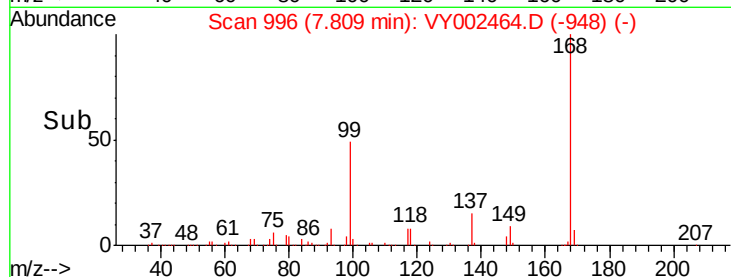
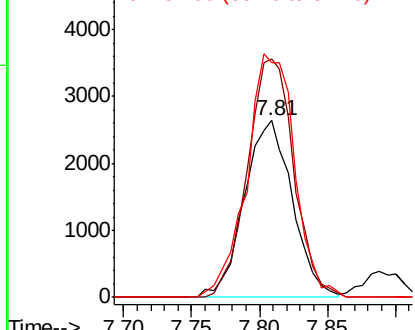
#31  
Cyclohexane  
Concen: 1.593 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 56 Resp: 6540  
Ion Ratio Lower Upper  
56 100  
69 135.4 27.0 40.6#  
84 133.0 77.4 116.2#

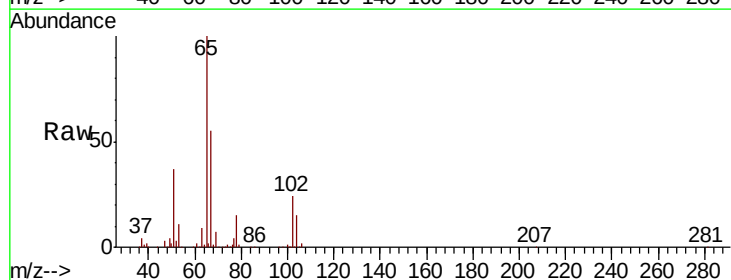


Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

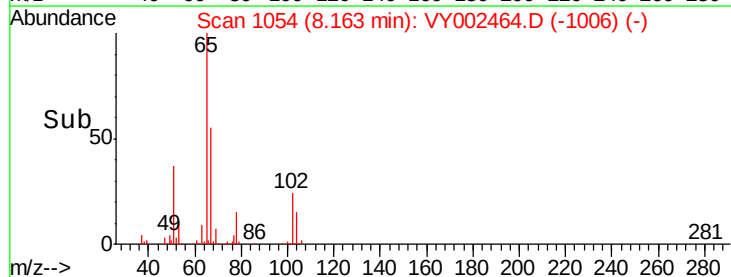
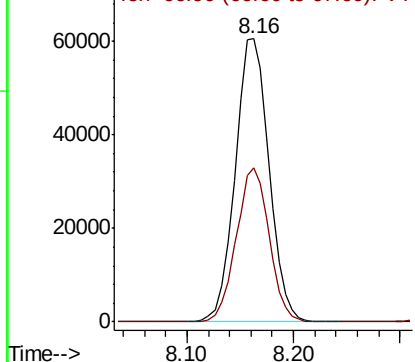


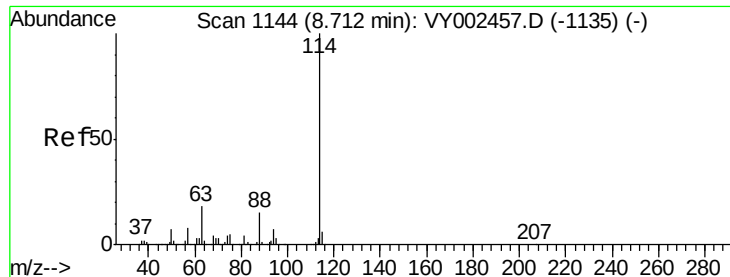
#33  
1,2-Dichloroethane-d4  
Concen: 56.554 ug/l  
RT: 8.16 min Scan# 1054  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Tgt Ion: 65 Resp: 134789  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0

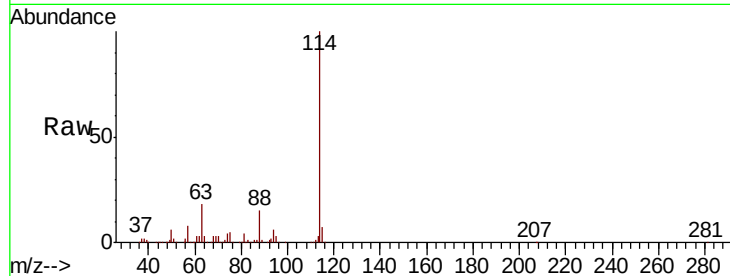




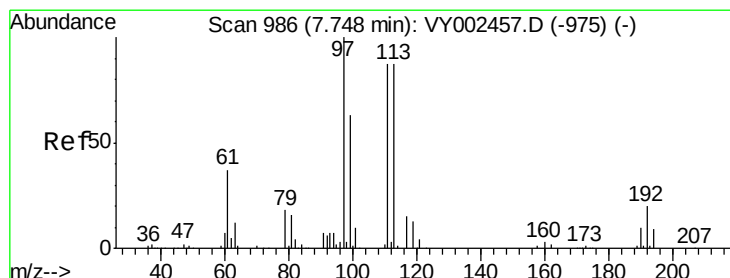
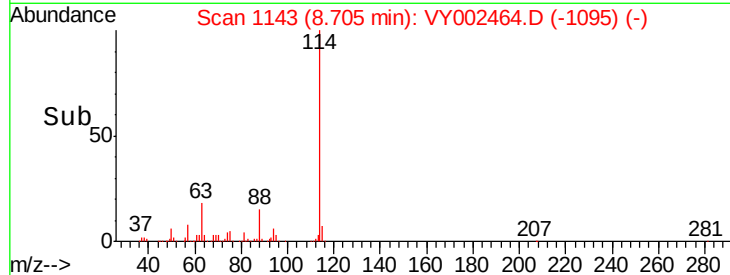
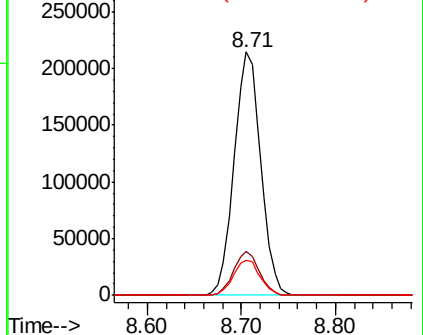
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: VY002464.D  
 Acq: 23 Apr 2020 17:02

Instrument :  
 MSVOA\_Y  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.9  | 0.0   | 35.6  |
| 88      | 14.5  | 0.0   | 29.4  |

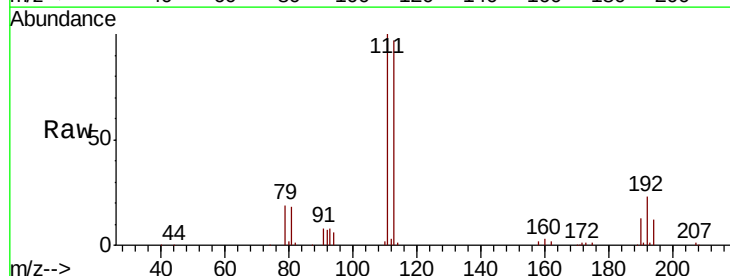


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

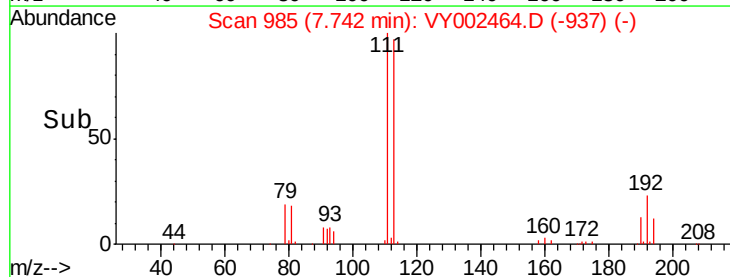
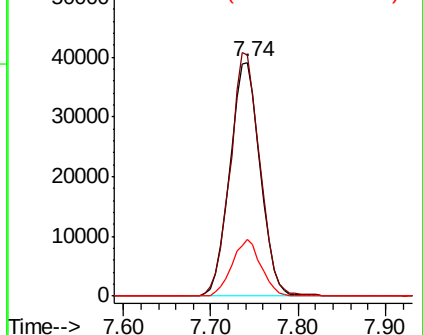


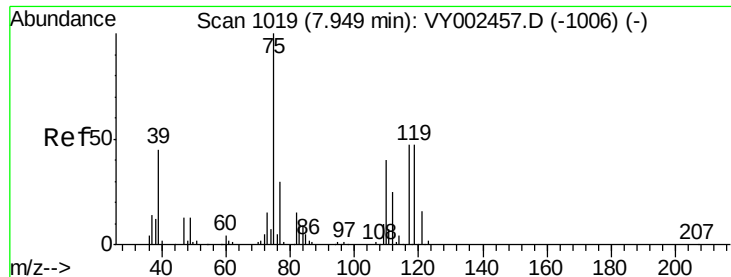
#35  
 Dibromofluoromethane  
 Concen: 39.964 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. -0.01 min  
 Lab File: VY002464.D  
 Acq: 23 Apr 2020 17:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 81.0  | 121.4 |
| 192     | 23.1  | 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





#36

1,1-Dichloropropene

Concen: 4.624 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.14 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

Instrument :

MSVOA\_Y

ClientSampleId :

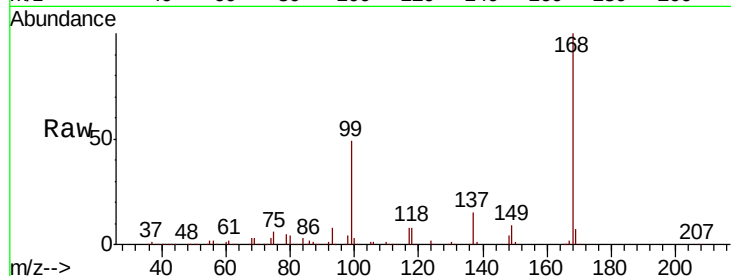
Tot Ion: 75 Resp: 16616

Ion Ratio Lower Upper

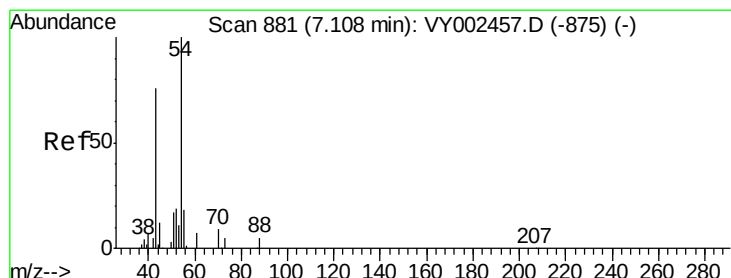
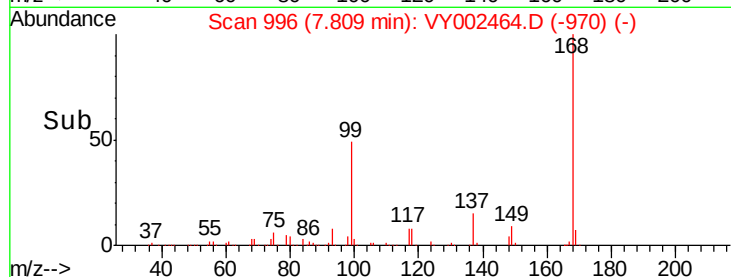
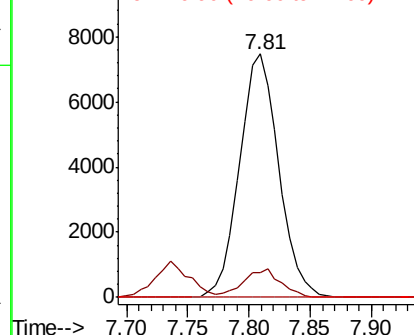
75 100

110 11.1 19.4 58.4#

77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 109.90 (109.60 to 110.60): VY0  
Ion 76.90 (76.60 to 77.60): VY0



#37

Ethyl Acetate

Concen: 4.025 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.10 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

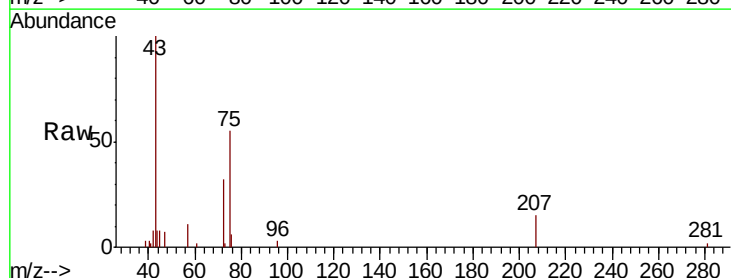
Tgt Ion: 43 Resp: 7266

Ion Ratio Lower Upper

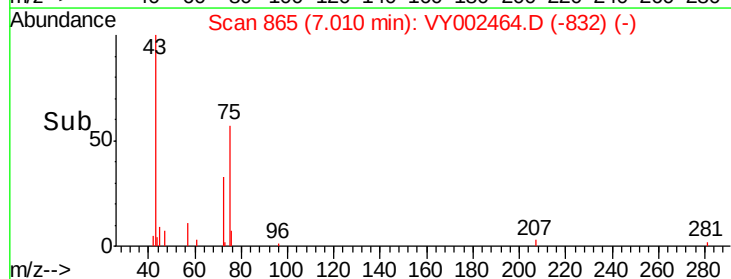
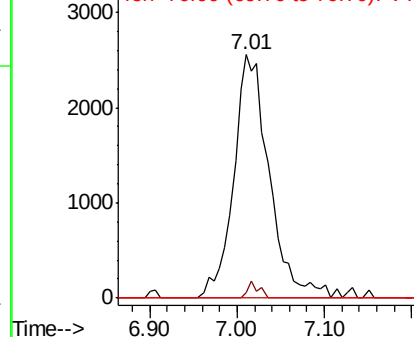
43 100

61 2.2 11.8 17.8#

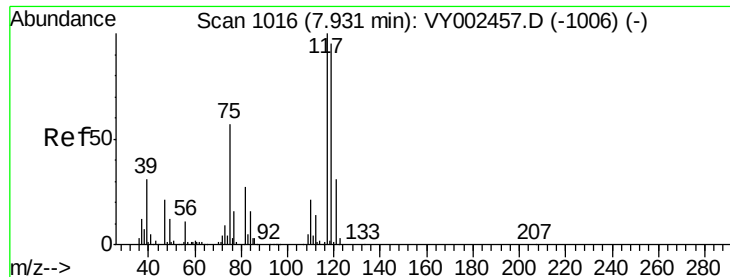
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 70.00 (69.70 to 70.70): VY0



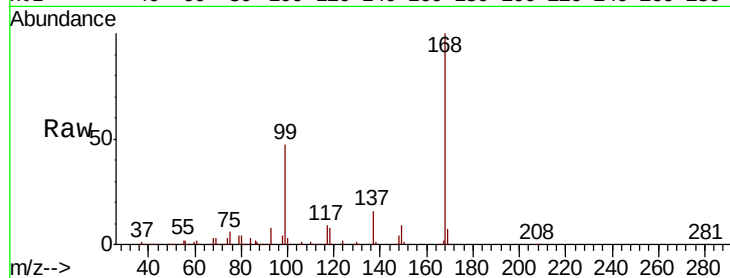




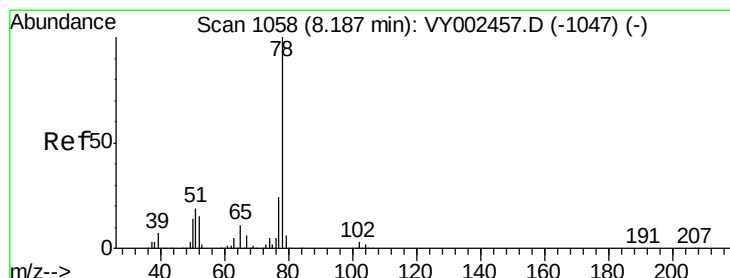
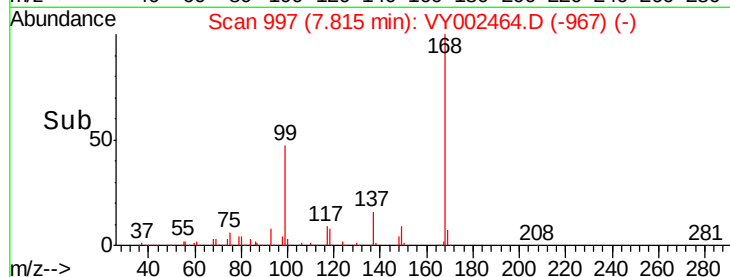
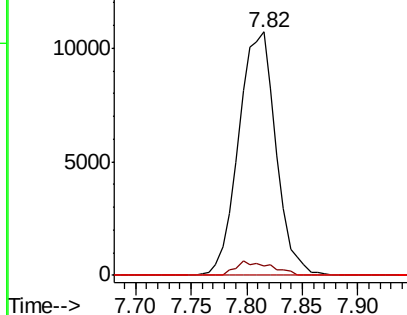
#38  
Carbon Tetrachloride  
Concen: 6.028 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. -0.12 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:117 Resp: 24910  
Ion Ratio Lower Upper  
117 100  
119 3.8 75.9 113.9#  
121 0.0 24.5 36.7#

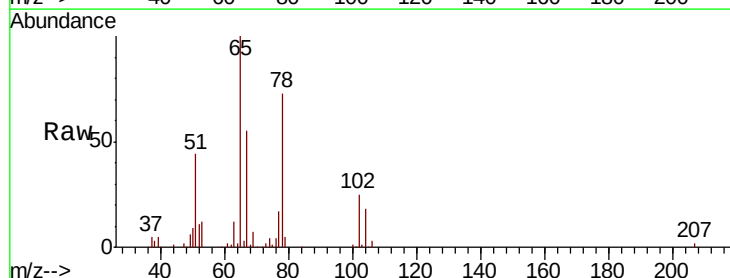


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

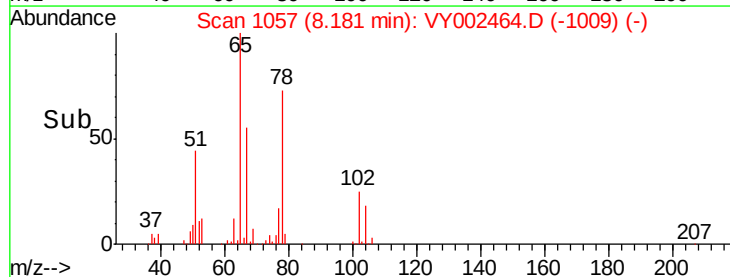
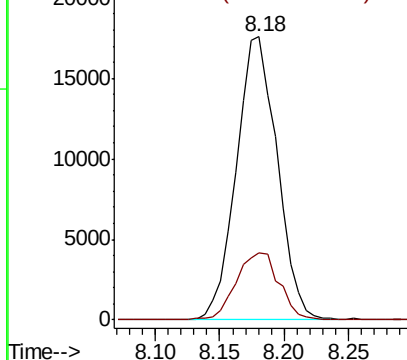


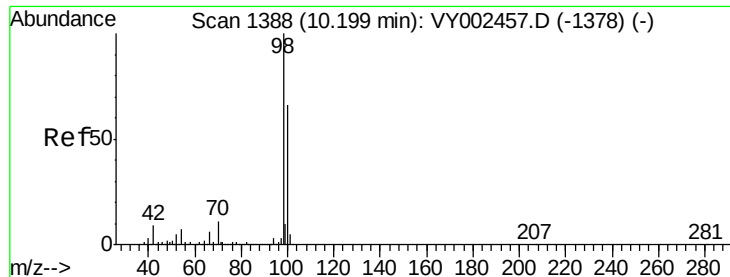
#40  
Benzene  
Concen: 3.726 ug/l  
RT: 8.18 min Scan# 1057  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Tgt Ion: 78 Resp: 38698  
Ion Ratio Lower Upper  
78 100  
77 23.5 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VY0  
Ion 77.00 (76.70 to 77.70): VY0





#50

Toluene-d8

Concen: 51.511 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

Instrument :

MSVOA\_Y

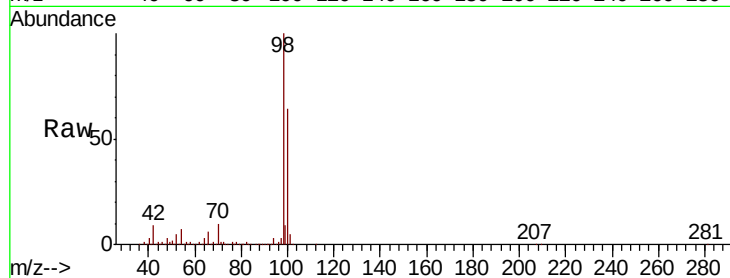
ClientSampleId :

Tot Ion: 98 Resp: 489429

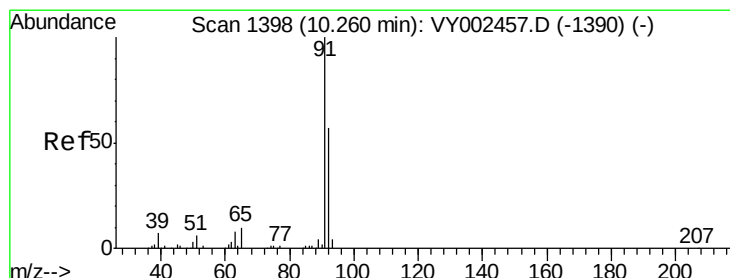
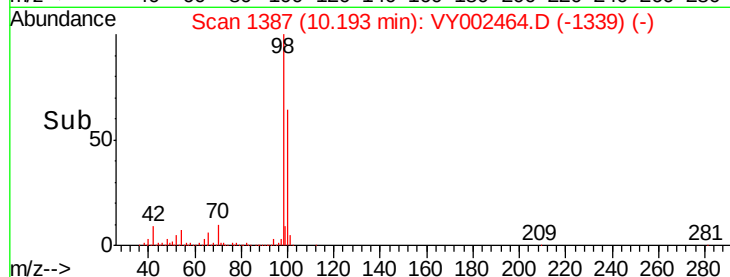
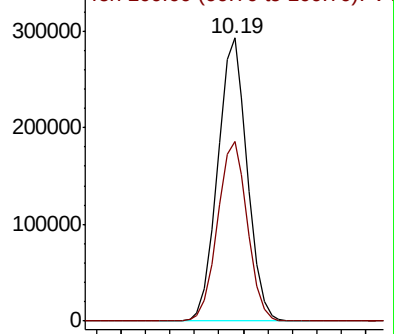
Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY0



#52

Toluene

Concen: 1.041 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.01 min

Lab File: VY002464.D

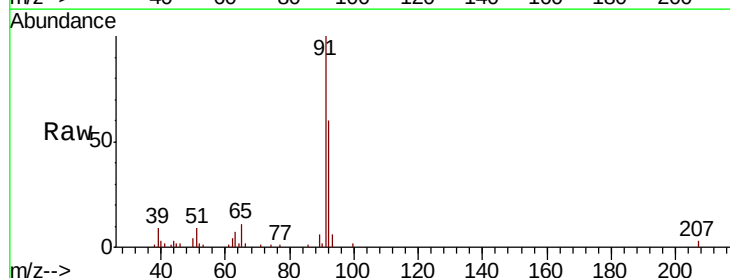
Acq: 23 Apr 2020 17:02

Tgt Ion: 92 Resp: 6962

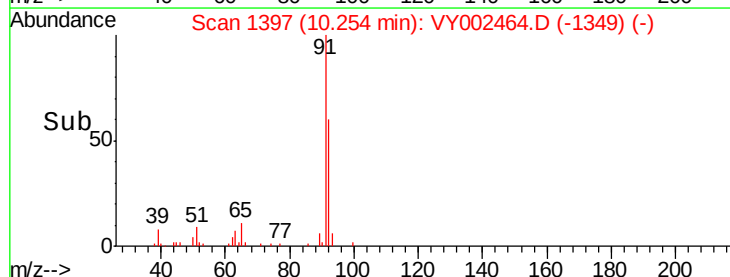
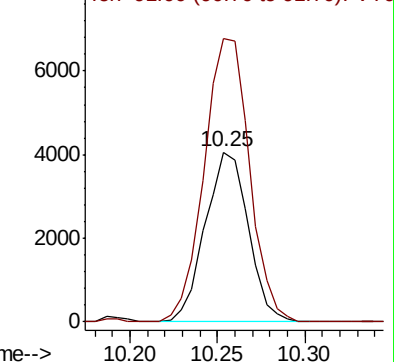
Ion Ratio Lower Upper

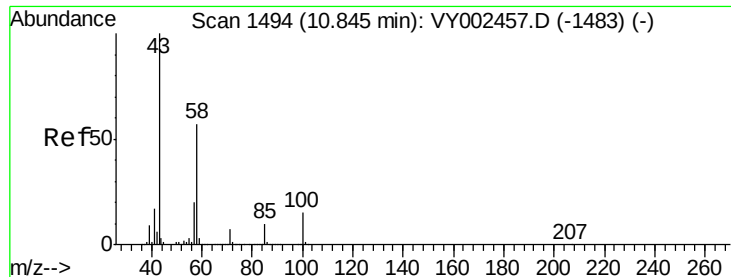
92 100

91 175.2 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VY0





#59

2-Hexanone

Concen: 1.464 ug/l

RT: 10.84 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

Instrument :

MSVOA\_Y

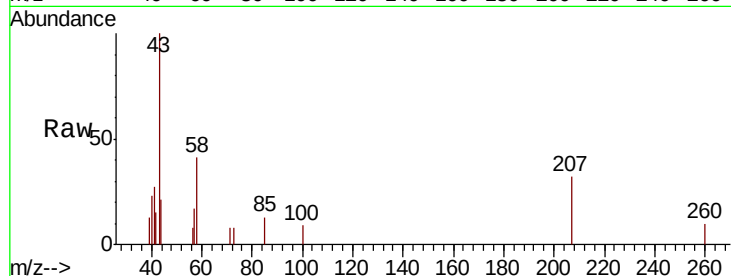
ClientSampleId :

Tot Ion: 43 Resp: 1790

Ion Ratio Lower Upper

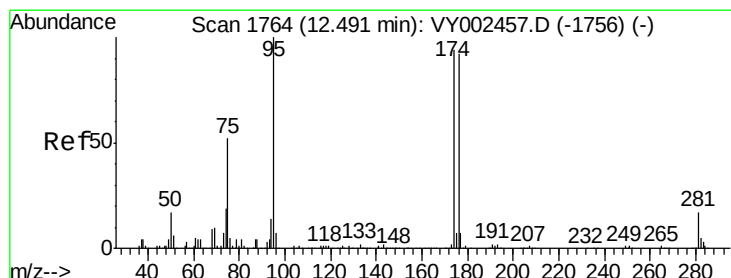
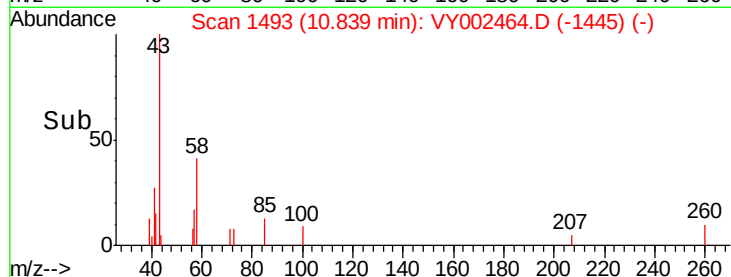
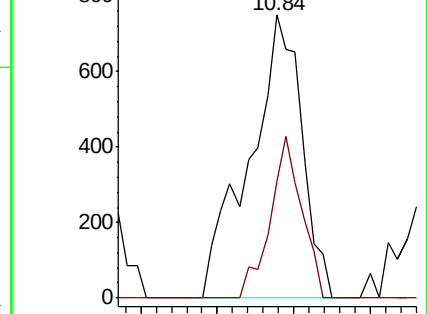
43 100

58 34.6 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#62

4-Bromofluorobenzene

Concen: 44.903 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

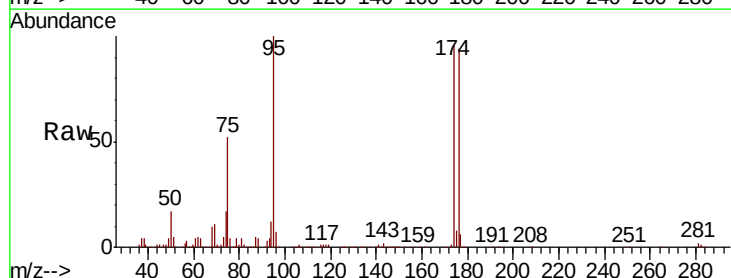
Tgt Ion: 95 Resp: 143156

Ion Ratio Lower Upper

95 100

174 96.1 0.0 193.0

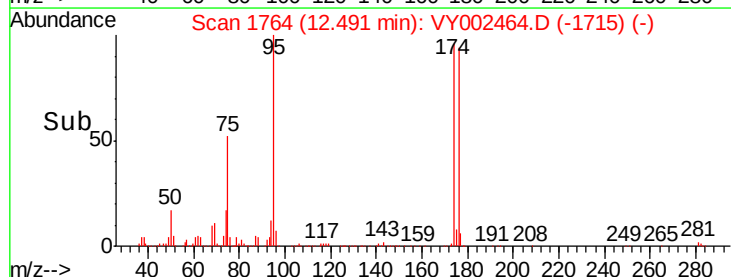
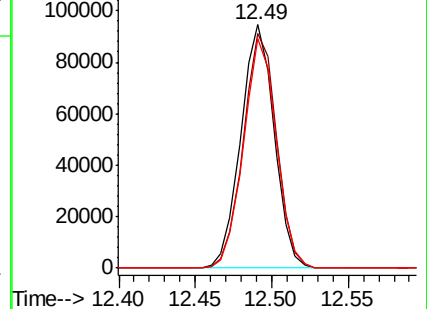
176 92.8 0.0 190.4

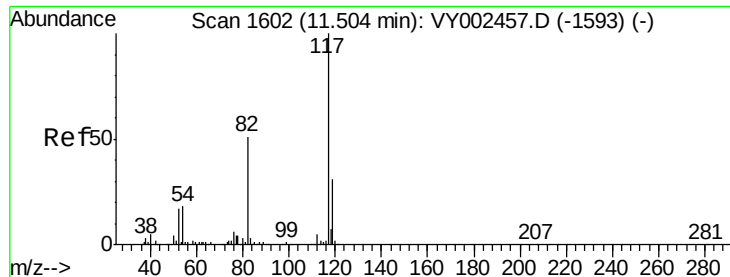


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

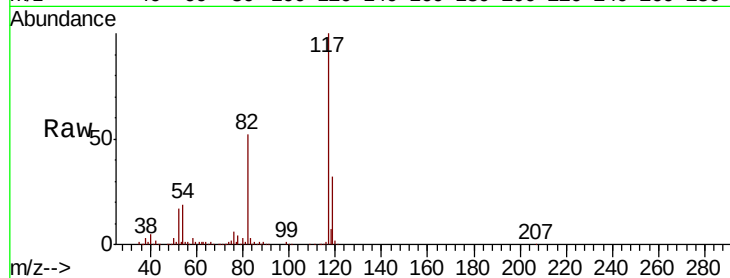




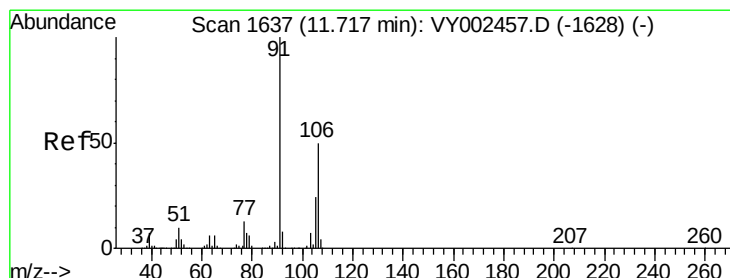
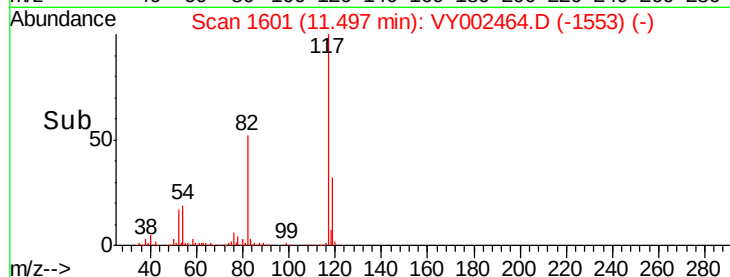
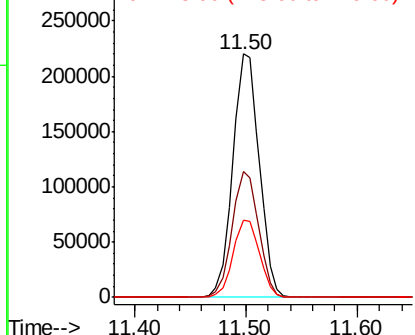
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:117 Resp: 361154  
Ion Ratio Lower Upper  
117 100  
82 51.5 40.8 61.2  
119 31.6 25.2 37.8

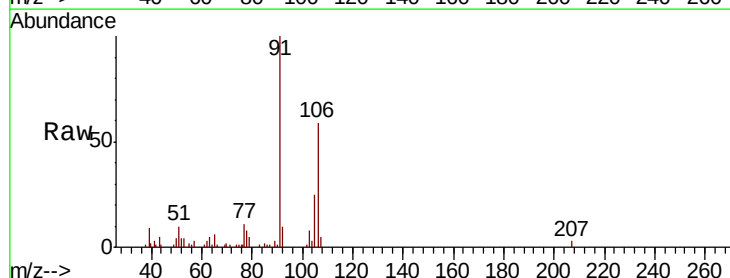


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

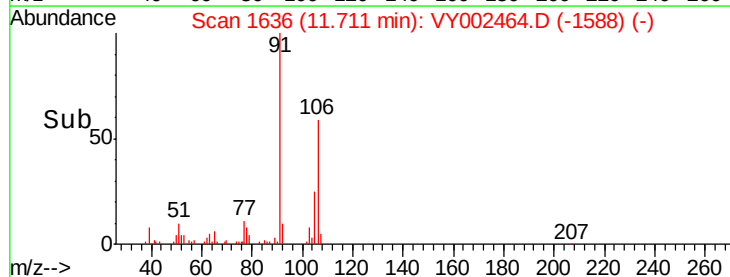
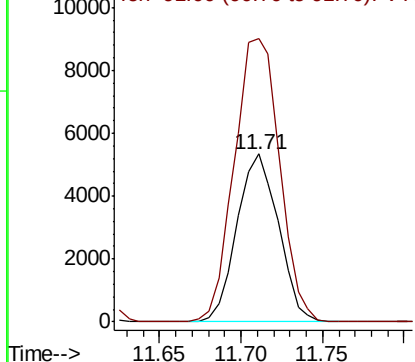


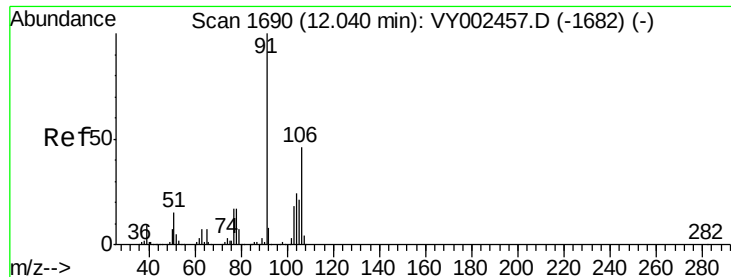
#68  
m/p-Xylenes  
Concen: 1.973 ug/l  
RT: 11.71 min Scan# 1636  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Tgt Ion:106 Resp: 9424  
Ion Ratio Lower Upper  
106 100  
91 185.0 159.8 239.6



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

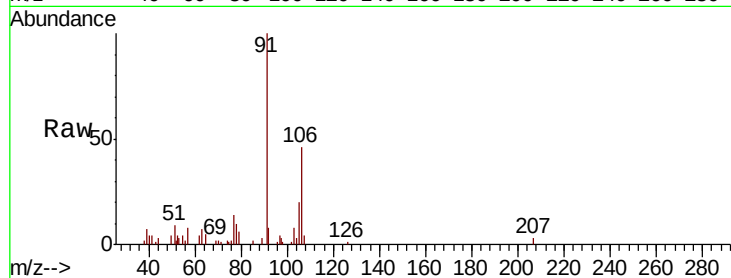




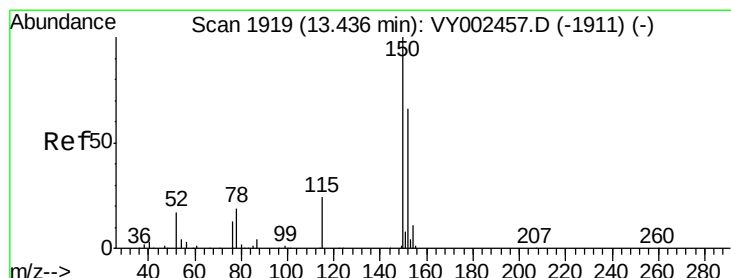
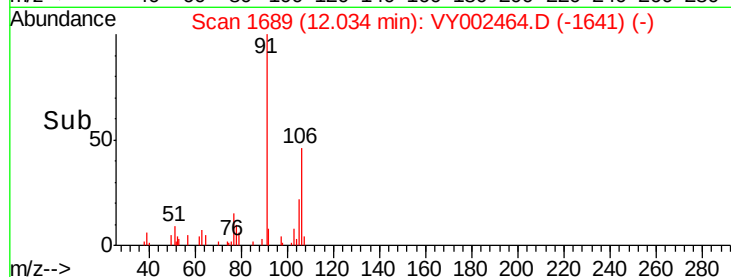
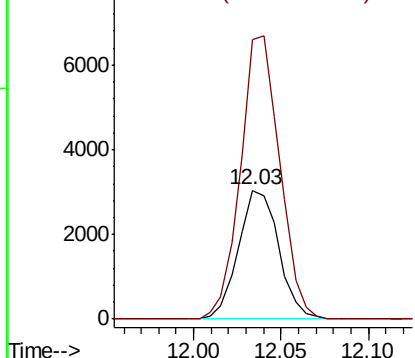
#69  
o-Xylene  
Concen: 1.101 ug/l  
RT: 12.03 min Scan# 1689  
Delta R.T. -0.01 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:106 Resp: 4872  
Ion Ratio Lower Upper  
106 100  
91 214.4 104.5 313.3

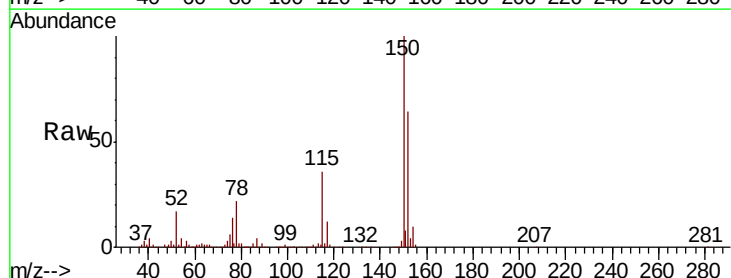


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VY0

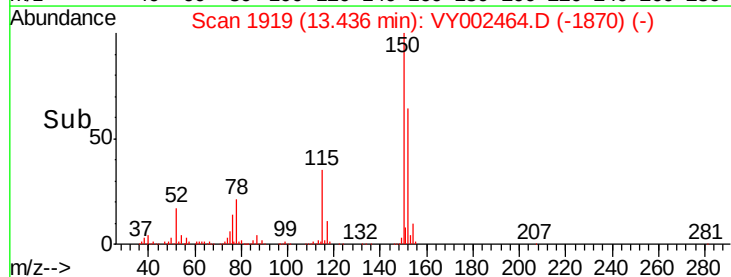
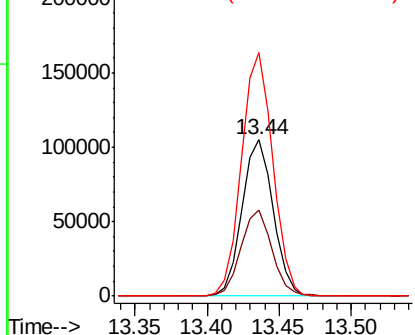


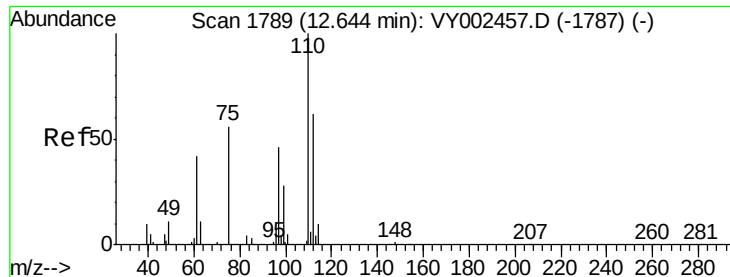
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. -0.00 min  
Lab File: VY002464.D  
Acq: 23 Apr 2020 17:02

Tgt Ion:152 Resp: 156951  
Ion Ratio Lower Upper  
152 100  
115 55.2 27.3 81.8  
150 156.9 0.0 346.8



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





#76

1,2,3-Trichloropropane

Concen: 54.379 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

Instrument :

MSVOA\_Y

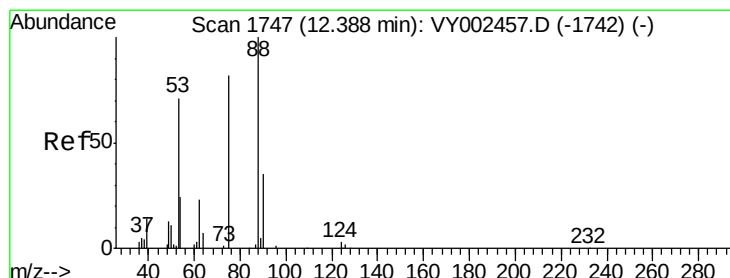
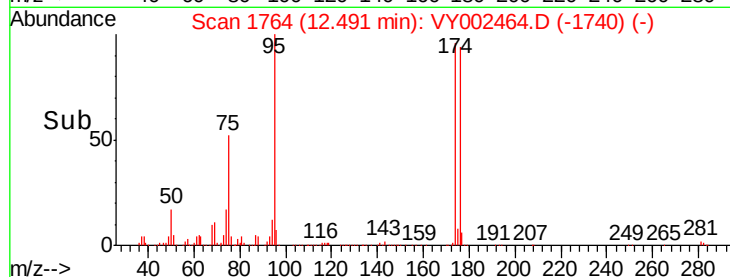
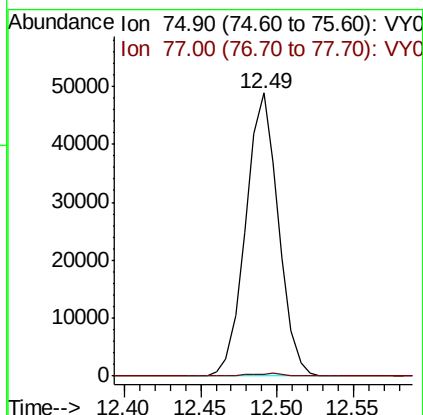
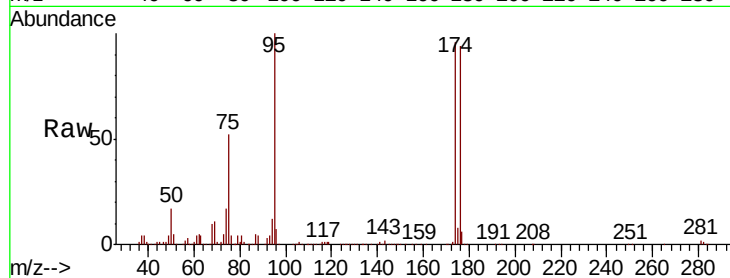
ClientSampled :

Tot Ion: 75 Resp: 72338

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 100.628 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

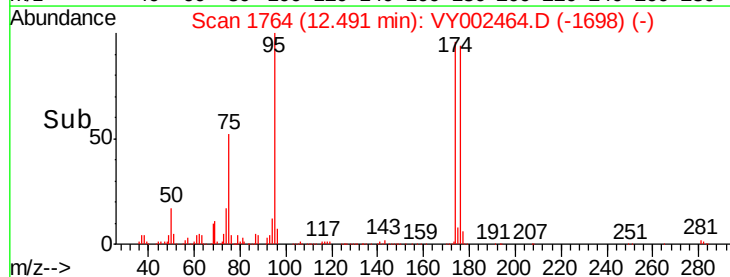
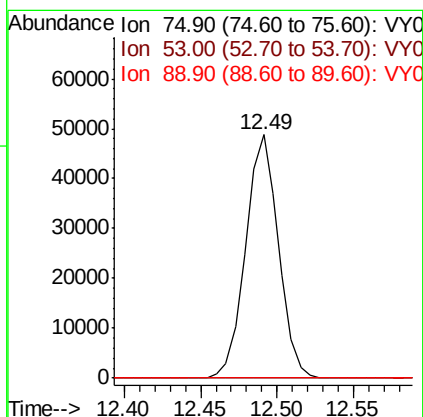
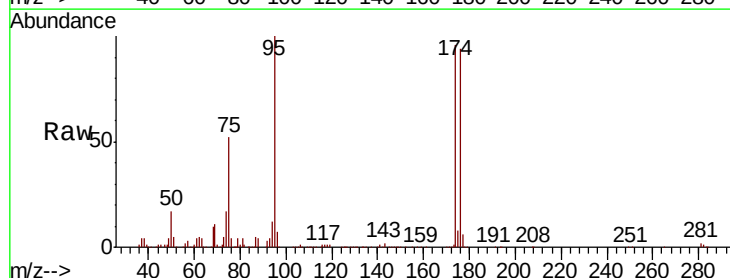
Tgt Ion: 75 Resp: 72338

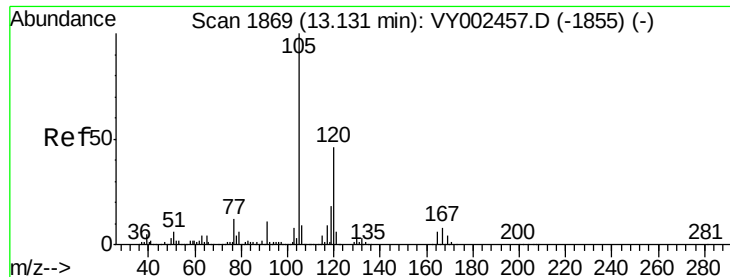
Ion Ratio Lower Upper

75 100

53 0.1 70.0 105.0#

89 0.1 34.9 52.3#





#84

1,2,4-Trimethylbenzene

Concen: 3.026 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

Instrument :

MSVOA\_Y

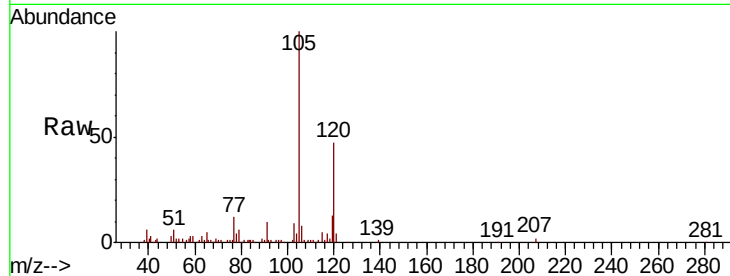
ClientSampleId :

Tot Ion:105 Resp: 25859

Ion Ratio Lower Upper

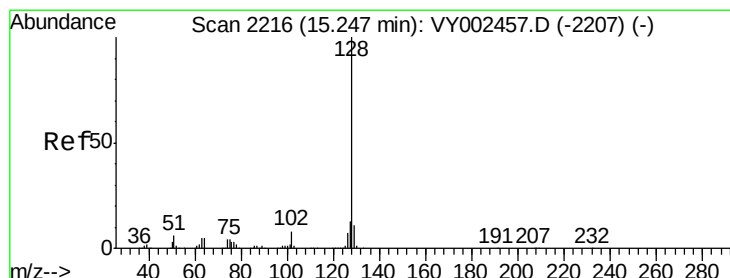
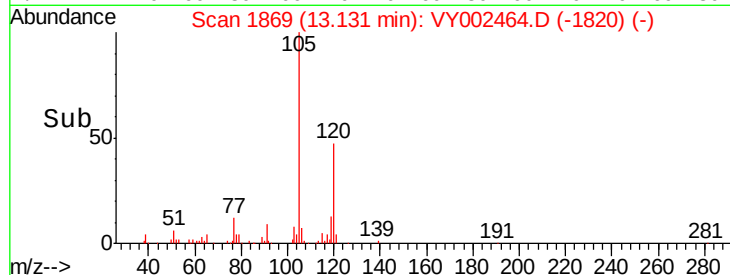
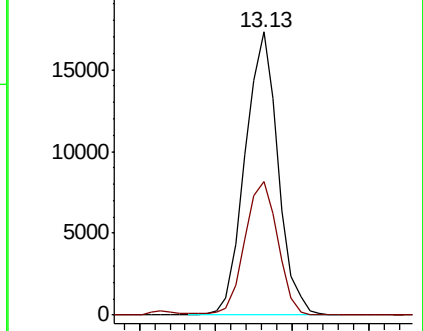
105 100

120 47.2 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 11.793 ug/l

RT: 15.25 min Scan# 2216

Delta R.T. -0.00 min

Lab File: VY002464.D

Acq: 23 Apr 2020 17:02

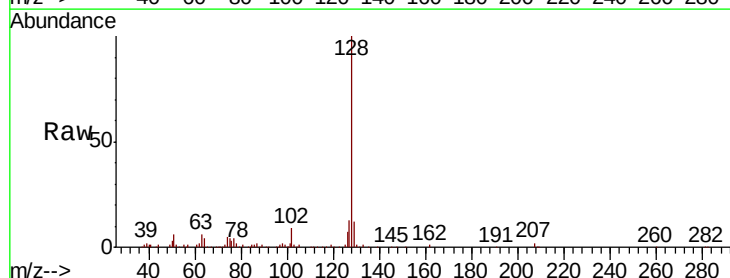
Tgt Ion:128 Resp: 72358

Ion Ratio Lower Upper

128 100

127 13.7 10.5 15.7

129 11.8 8.8 13.2



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

