

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY042320\  
 Data File : VY002466.D  
 Acq On : 23 Apr 2020 17:47  
 Operator : SY/MD  
 Sample : L2351-09  
 Misc : 6.54G/5ML/MSVOA Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

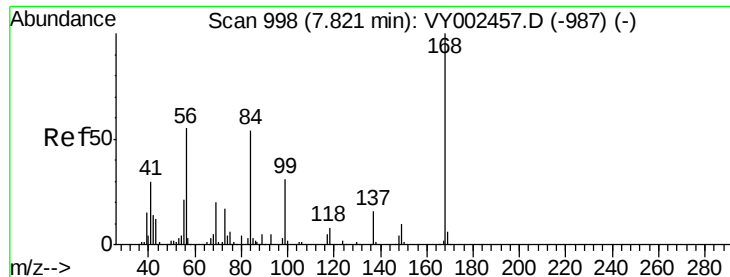
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 24 01:33:55 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  | 299176   | 50.00  | ug/l    | -0.01    |
| 34) 1,4-Difluorobenzene        | 8.71  | 114  | 465594   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.50 | 117  | 408522   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.44 | 152  | 191636   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.16  | 65   | 150290   | 57.47  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 114.94% |          |
| 35) Dibromofluoromethane       | 7.74  | 113  | 139617   | 53.16  | ug/l    | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =      | 106.32% |          |
| 50) Toluene-d8                 | 10.19 | 98   | 539739   | 51.13  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 102.26% |          |
| 62) 4-Bromofluorobenzene       | 12.49 | 95   | 166602   | 47.04  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 94.08%  |          |
| Target Compounds               |       |      |          |        |         |          |
|                                |       |      |          |        | Qvalue  |          |
| 16) Acetone                    | 3.97  | 43   | 1251     | 2.289  | ug/l    | 98       |
| 31) Cyclohexane                | 7.81  | 56   | 5081     | 1.128  | ug/l #  | 18       |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 18486    | 4.630  | ug/l #  | 48       |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 27561    | 6.003  | ug/l #  | 17       |
| 51) 4-Methyl-2-Pentanone       | 10.19 | 43   | 2051     | 1.053  | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 84037    | 51.740 | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 84037    | 95.744 | ug/l #  | 15       |

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



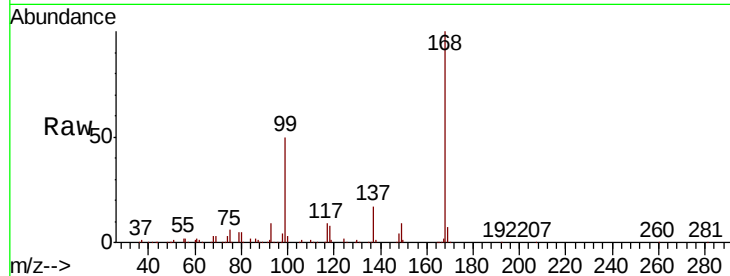


#1

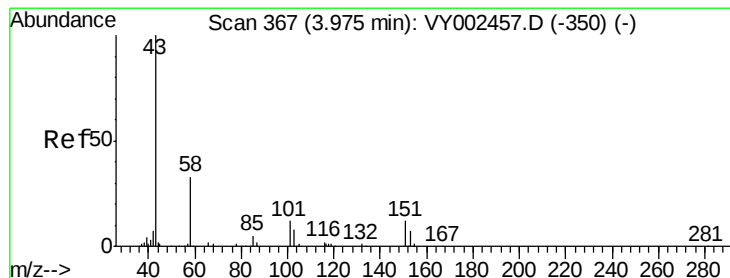
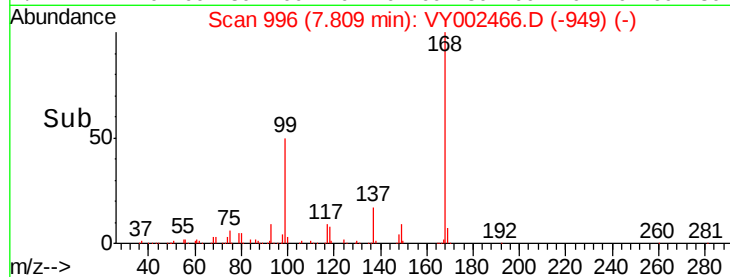
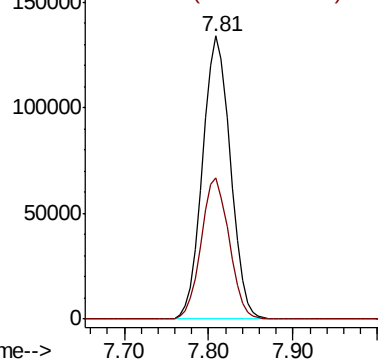
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.01 min  
 Lab File: VY002466.D  
 Acq: 23 Apr 2020 17:47

Instrument :  
 MSVOA\_Y  
 ClientSampled :

Tot Ion:168 Resp: 299176  
 Ion Ratio Lower Upper  
 168 100  
 99 50.0 39.7 59.5



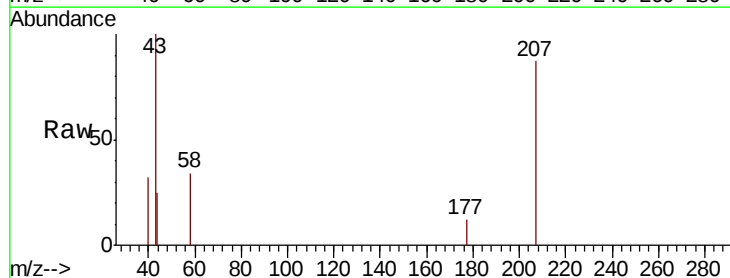
Abundance Ion 167.90 (167.60 to 168.60): VY002457.D (-987) (-)  
 Ion 98.90 (98.60 to 99.60): VY002457.D (-987) (-)



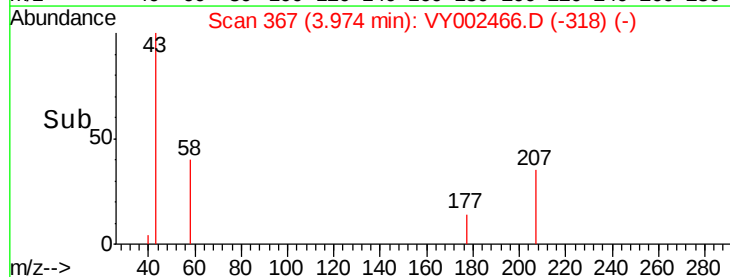
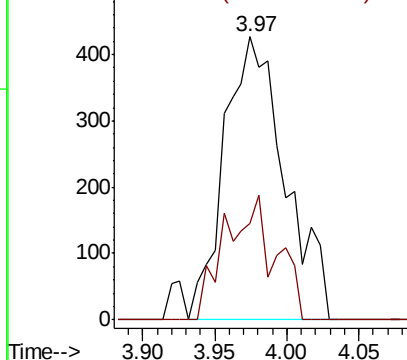
#16

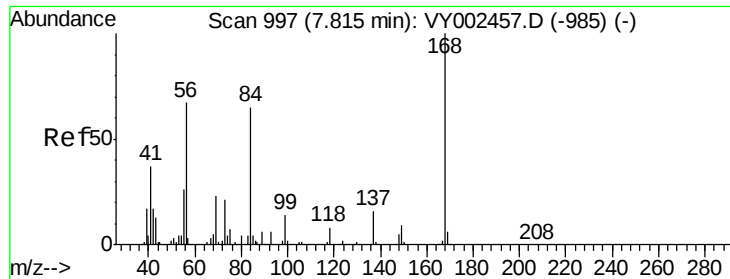
Acetone  
 Concen: 2.289 ug/l  
 RT: 3.97 min Scan# 367  
 Delta R.T. -0.00 min  
 Lab File: VY002466.D  
 Acq: 23 Apr 2020 17:47

Tgt Ion: 43 Resp: 1251  
 Ion Ratio Lower Upper  
 43 100  
 58 34.2 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VY002457.D (-350) (-)  
 Ion 58.00 (57.70 to 58.70): VY002457.D (-350) (-)

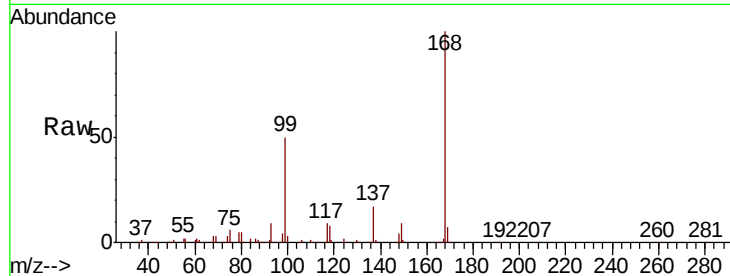




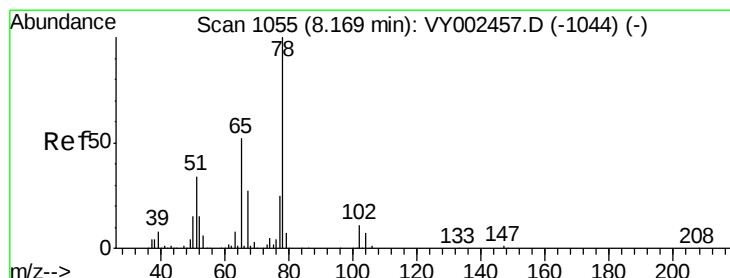
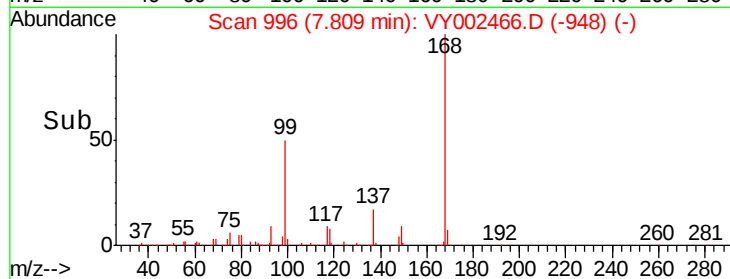
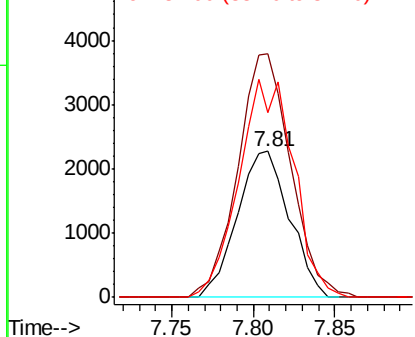
#31  
Cyclohexane  
Concen: 1.128 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.01 min  
Lab File: VY002466.D  
Acq: 23 Apr 2020 17:47

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 56 Resp: 5081  
Ion Ratio Lower Upper  
56 100  
69 166.5 27.0 40.6#  
84 126.0 77.4 116.2#

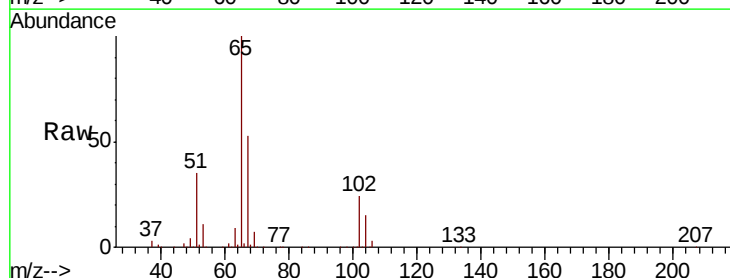


Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

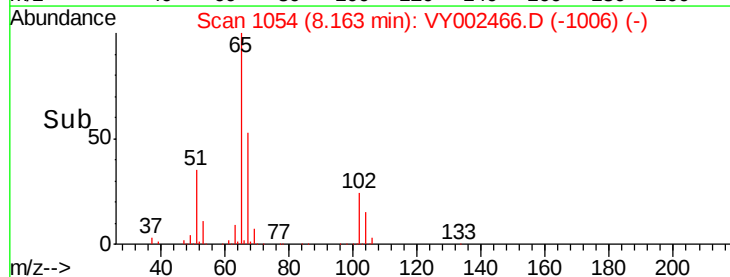
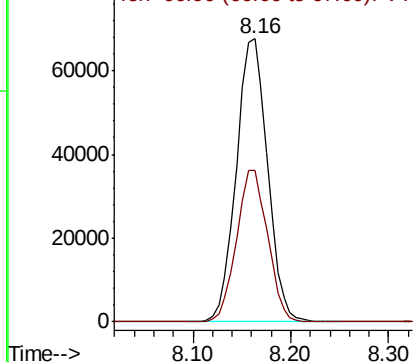


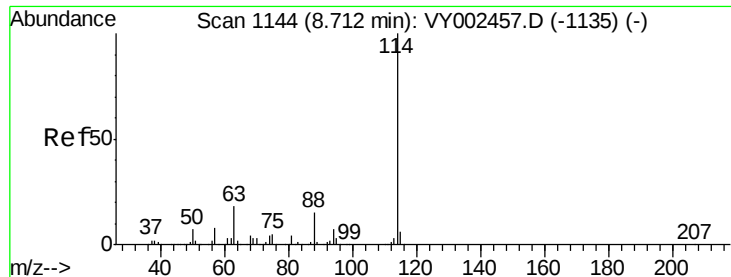
#33  
1,2-Dichloroethane-d4  
Concen: 57.475 ug/l  
RT: 8.16 min Scan# 1054  
Delta R.T. -0.01 min  
Lab File: VY002466.D  
Acq: 23 Apr 2020 17:47

Tgt Ion: 65 Resp: 150290  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 104.2



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

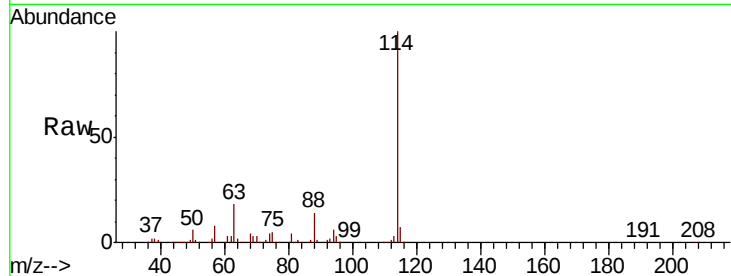




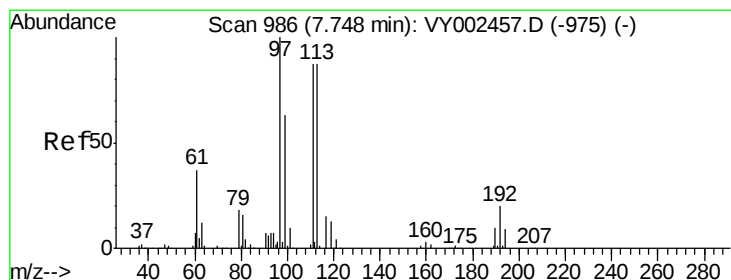
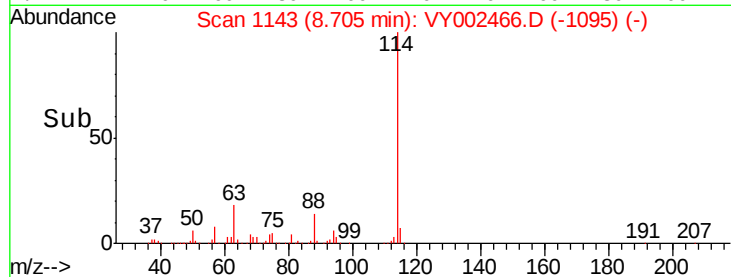
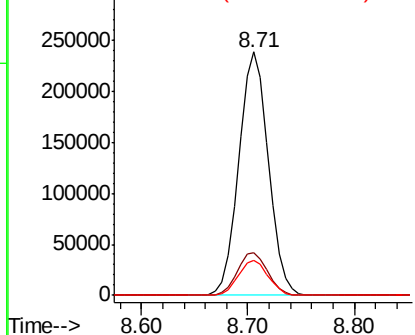
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: VY002466.D  
 Acq: 23 Apr 2020 17:47

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:114 Resp: 465594  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 35.6  
 88 14.4 0.0 29.4

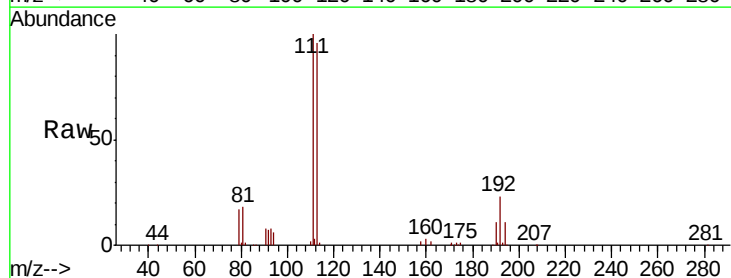


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

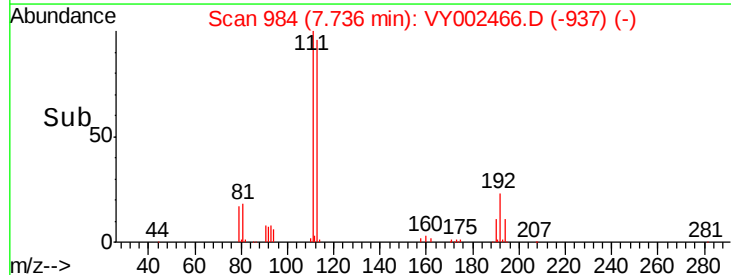
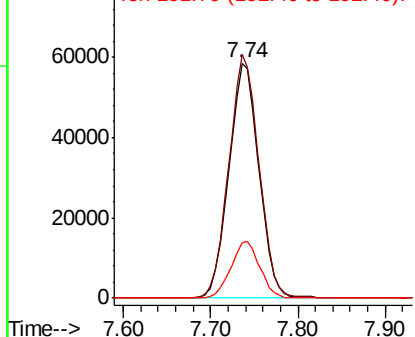


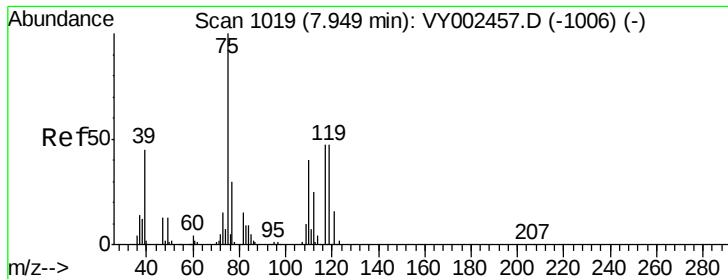
#35  
 Dibromofluoromethane  
 Concen: 53.163 ug/l  
 RT: 7.74 min Scan# 984  
 Delta R.T. -0.01 min  
 Lab File: VY002466.D  
 Acq: 23 Apr 2020 17:47

Tgt Ion:113 Resp: 139617  
 Ion Ratio Lower Upper  
 113 100  
 111 103.8 81.0 121.4  
 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

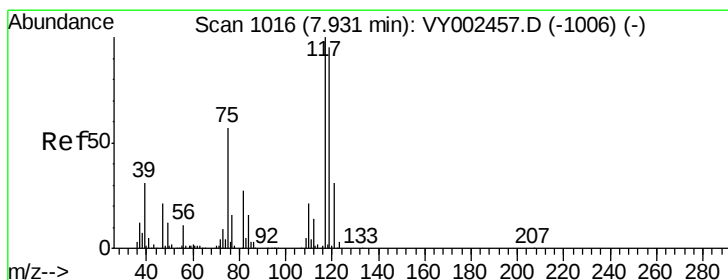
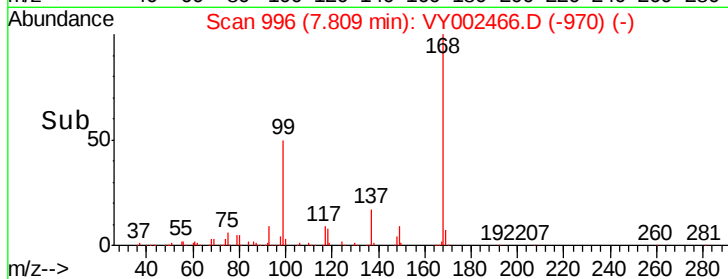
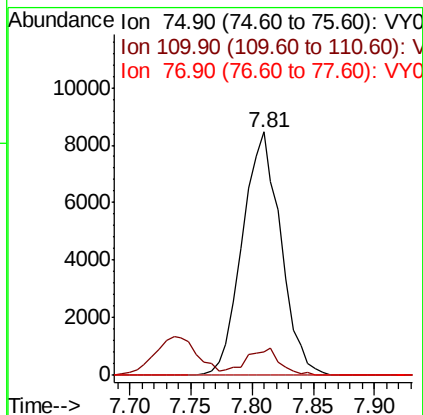
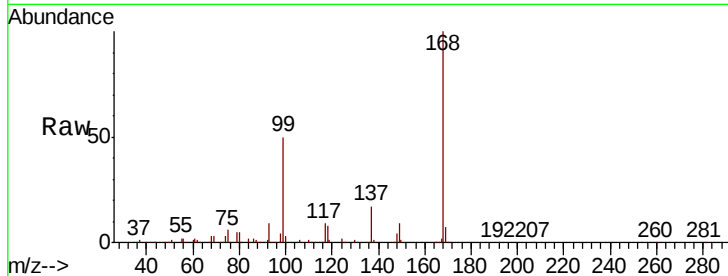




#36  
 1,1-Dichloropropene  
 Concen: 4.630 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.14 min  
 Lab File: VY002466.D  
 Acq: 23 Apr 2020 17:47

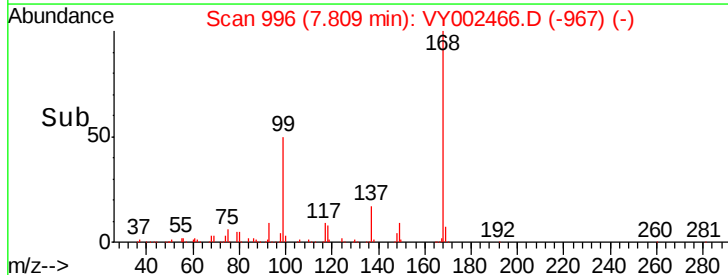
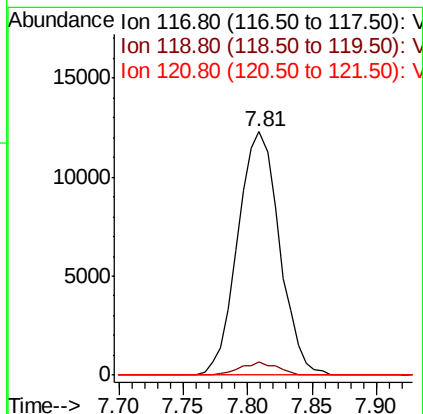
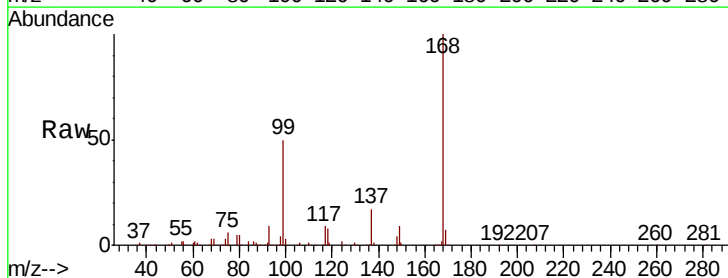
Instrument :  
 MSVOA\_Y  
 ClientSampled :

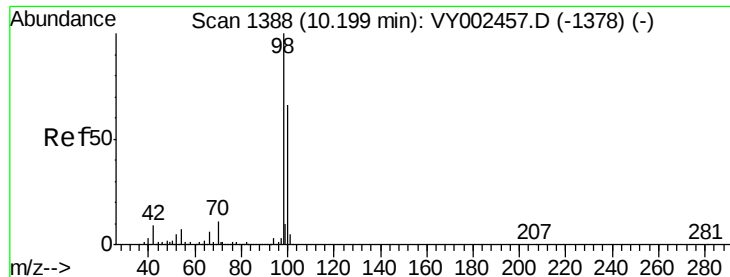
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.7   | 19.4  | 58.4# |
| 77      | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.003 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.12 min  
 Lab File: VY002466.D  
 Acq: 23 Apr 2020 17:47

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.7   | 75.9  | 113.9# |
| 121     | 0.0   | 24.5  | 36.7#  |





#50

Toluene-d8

Concen: 51.134 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VY002466.D

Acq: 23 Apr 2020 17:47

Instrument :

MSVOA\_Y

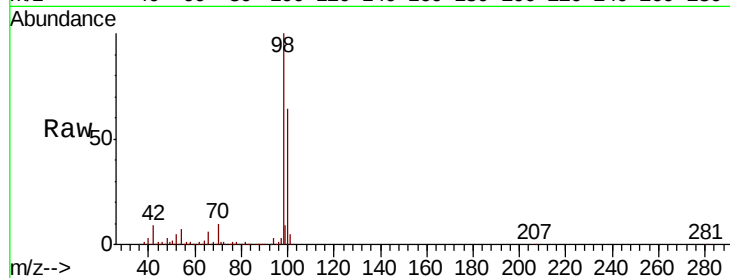
ClientSampleId :

Tot Ion: 98 Resp: 539739

Ion Ratio Lower Upper

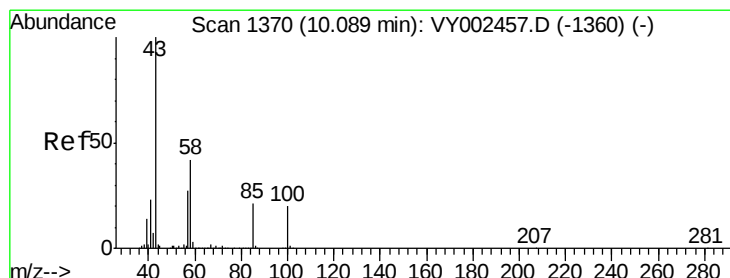
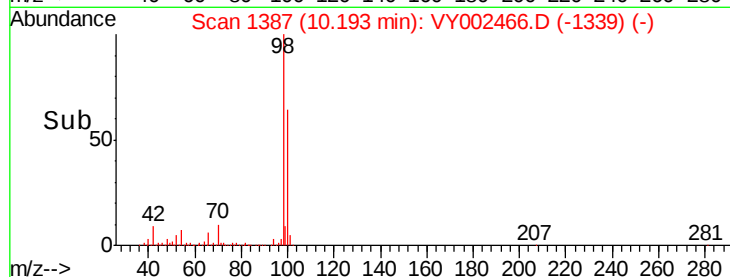
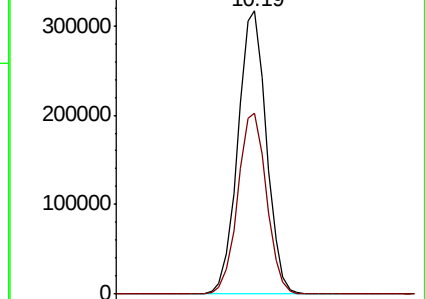
98 100

100 64.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY002457.D (-1378) (-)

Ion 100.00 (99.70 to 100.70): VY002457.D (-1378) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.053 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.10 min

Lab File: VY002466.D

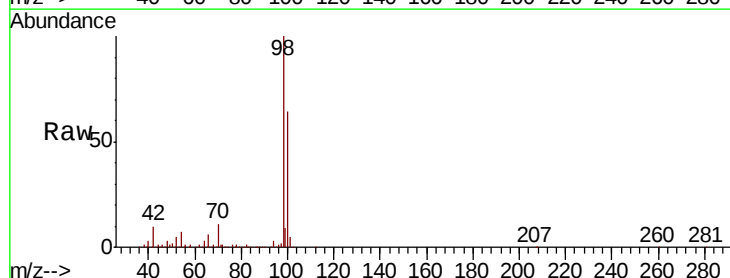
Acq: 23 Apr 2020 17:47

Tgt Ion: 43 Resp: 2051

Ion Ratio Lower Upper

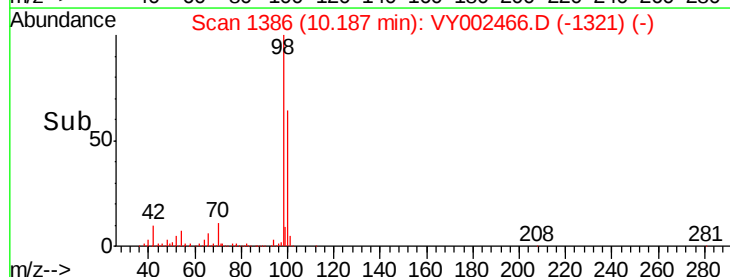
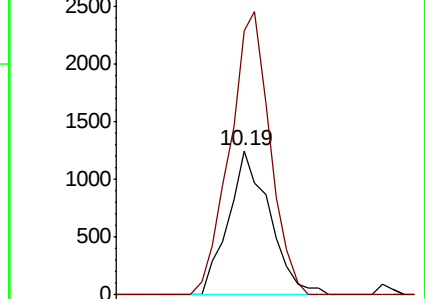
43 100

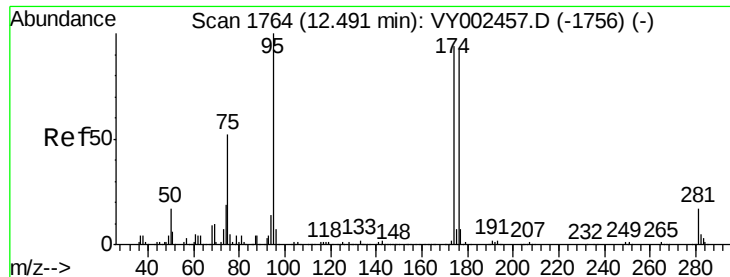
58 190.2 33.2 49.8#



Abundance Ion 43.00 (42.70 to 43.70): VY002457.D (-1360) (-)

Ion 58.00 (57.70 to 58.70): VY002457.D (-1360) (-)





#62

4-Bromofluorobenzene

Concen: 47.040 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VY002466.D

Acq: 23 Apr 2020 17:47

Instrument :

MSVOA\_Y

ClientSampleId :

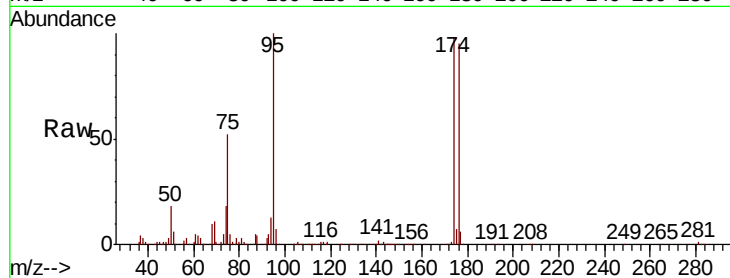
Tot Ion: 95 Resp: 166602

Ion Ratio Lower Upper

95 100

174 96.1 0.0 193.0

176 93.5 0.0 190.4

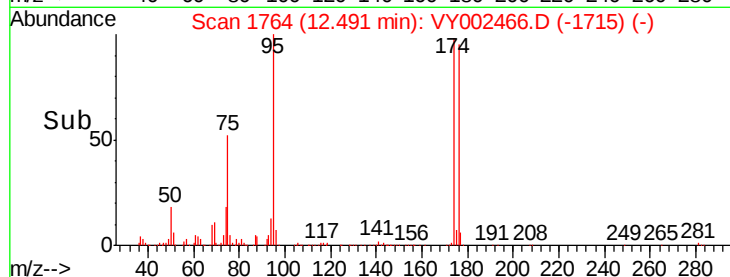


Abundance Ion 94.90 (94.60 to 95.60): VY002457.D (-1756) (-)

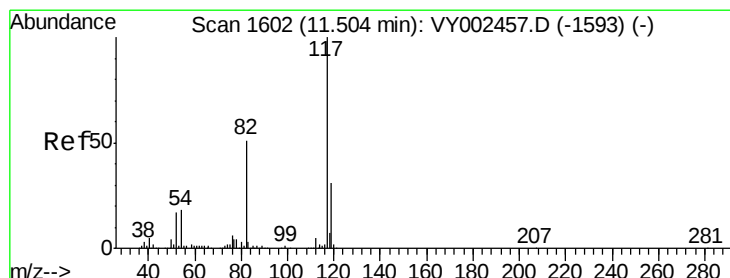
Ion 173.80 (173.50 to 174.50): VY002457.D (-1756) (-)

Ion 175.80 (175.50 to 176.50): VY002457.D (-1756) (-)

12.49



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.50 min Scan# 1601

Delta R.T. -0.01 min

Lab File: VY002466.D

Acq: 23 Apr 2020 17:47

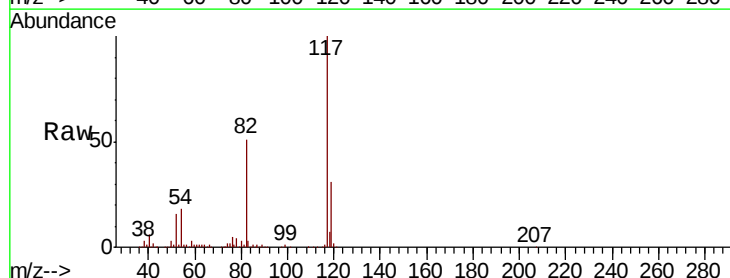
Tgt Ion: 117 Resp: 408522

Ion Ratio Lower Upper

117 100

82 51.3 40.8 61.2

119 30.5 25.2 37.8

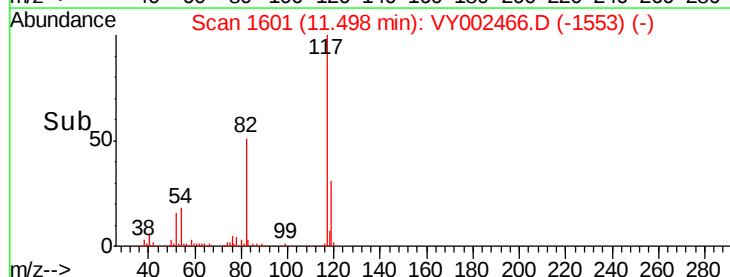


Abundance Ion 116.90 (116.60 to 117.60): VY002457.D (-1593) (-)

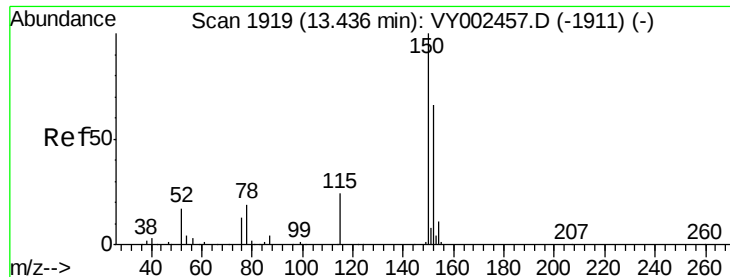
Ion 82.00 (81.70 to 82.70): VY002457.D (-1593) (-)

Ion 118.90 (118.60 to 119.60): VY002457.D (-1593) (-)

11.50



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VY002466.D

Acq: 23 Apr 2020 17:47

Instrument :

MSVOA\_Y

ClientSampleId :

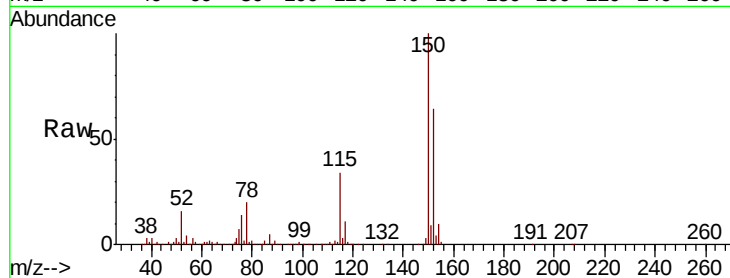
Tot Ion:152 Resp: 191636

Ion Ratio Lower Upper

152 100

115 54.6 27.3 81.8

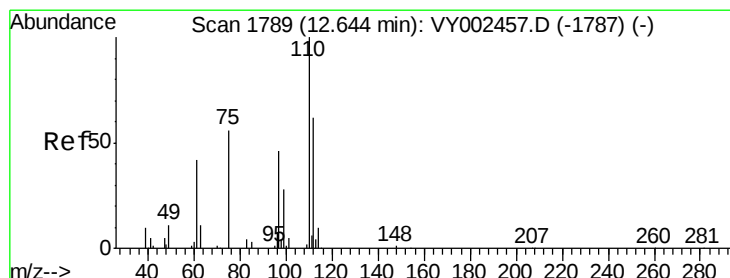
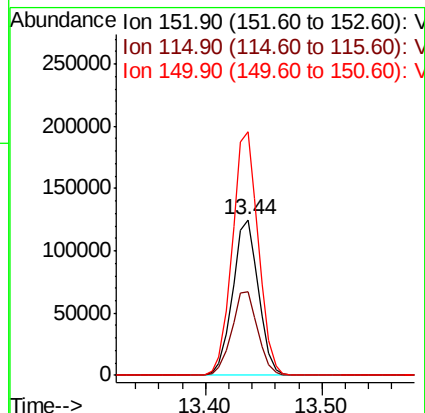
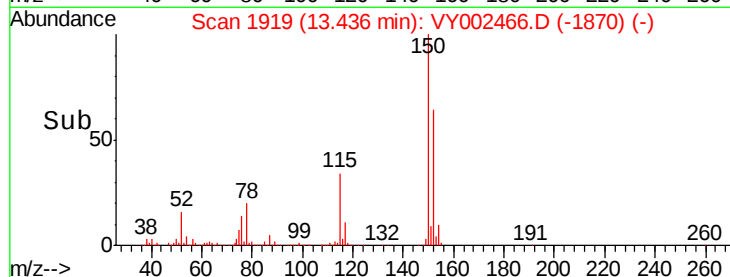
150 157.7 0.0 346.8



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: 51.740 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002466.D

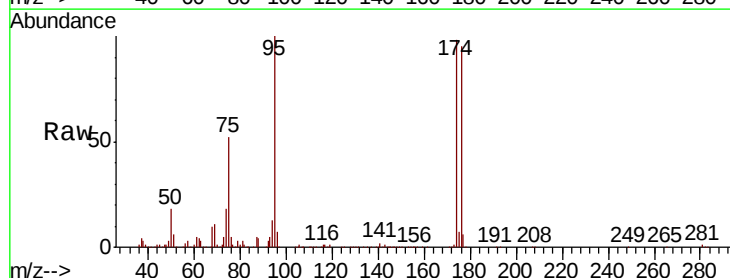
Acq: 23 Apr 2020 17:47

Tgt Ion: 75 Resp: 84037

Ion Ratio Lower Upper

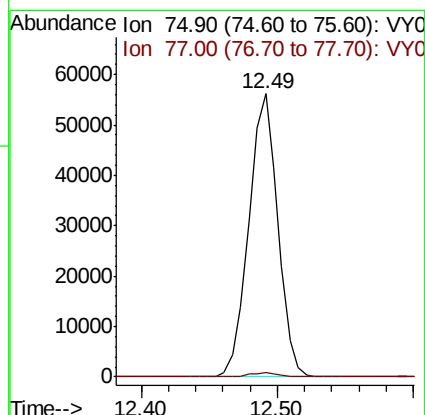
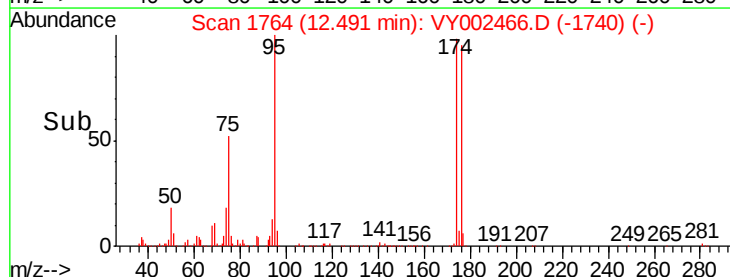
75 100

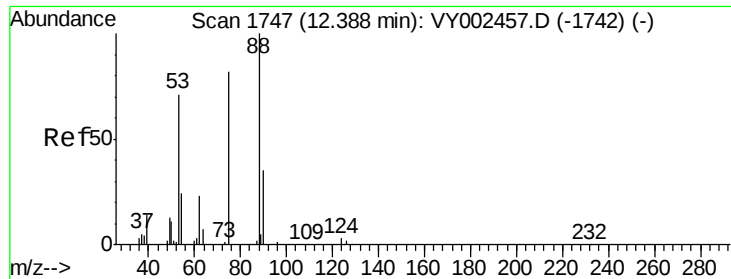
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 95.744 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002466.D

Acq: 23 Apr 2020 17:47

Instrument :

MSVOA\_Y

ClientSampleId :

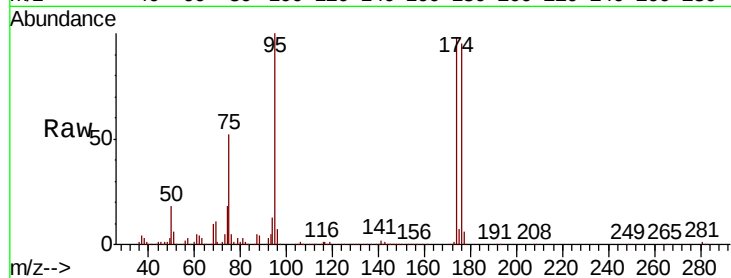
Tot Ion: 75 Resp: 84037

Ion Ratio Lower Upper

75 100

53 0.0 70.0 105.0#

89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

