

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY041420\  
 Data File : VY002303.D  
 Acq On : 14 Apr 2020 13:12  
 Operator : SY/MD  
 Sample : L2196-05  
 Misc : 5.08G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 BP-VPB180-GW-98-100

Quant Time: Apr 15 05:34:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y040820S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 08 15:15:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 138907   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 279500   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 262941   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 117918   | 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   | 81113    | 52.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.02% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 82545    | 49.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.26%  |          |
| 50) Toluene-d8              | 10.18 | 98   | 338074   | 48.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.14%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 120077   | 52.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.58% |          |

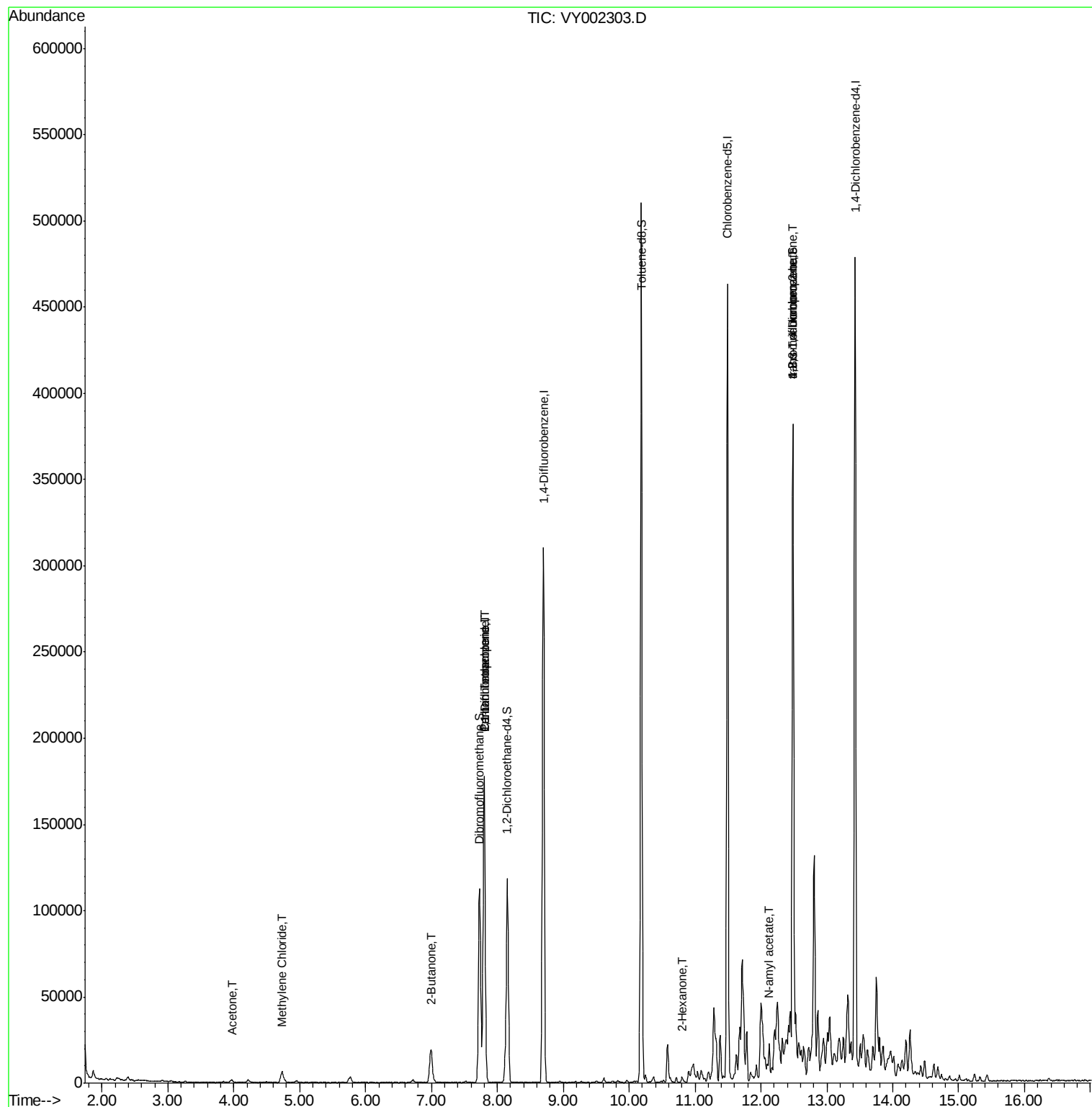
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.96  | 59   | 932      | Below Cal | #      | 77     |
| 16) Acetone                    | 3.97  | 43   | 2555     | 6.280     | ug/l   | 94     |
| 20) Methylene Chloride         | 4.74  | 84   | 4934     | 2.467     | ug/l # | 82     |
| 25) 2-Butanone                 | 6.99  | 43   | 1559     | 2.421     | ug/l   | 92     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 11064    | 4.019     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 13915    | 5.909     | ug/l # | 15     |
| 59) 2-Hexanone                 | 10.80 | 43   | 1277     | 1.231     | ug/l # | 21     |
| 74) N-amyl acetate             | 12.13 | 43   | 4591     | 1.746     | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 56981    | 41.614    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 56981    | 80.938    | ug/l # | 19     |

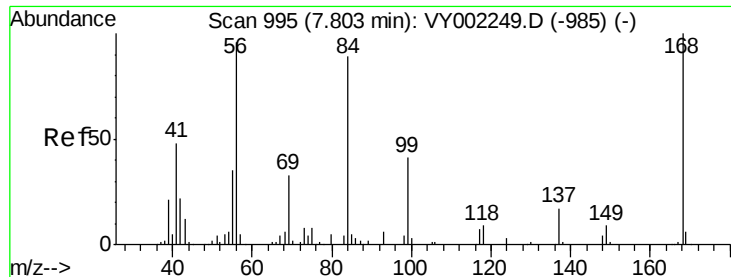
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Apr 08 15:15:02 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

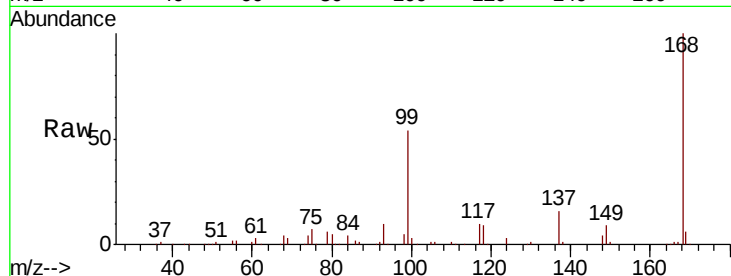
BP-VPB180-GW-98-100

Tot Ion:168 Resp: 138907

Ion Ratio Lower Upper

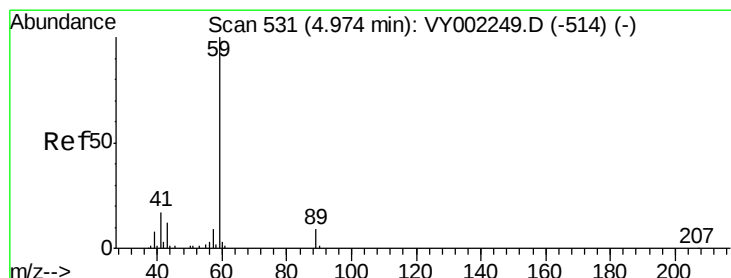
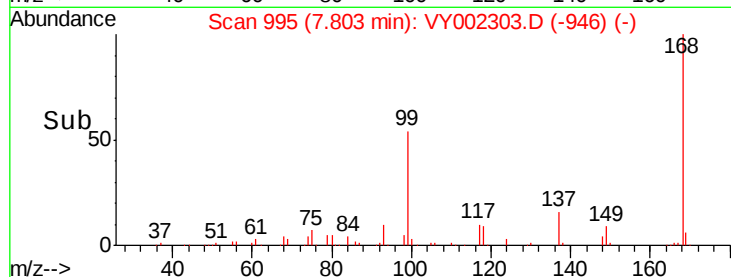
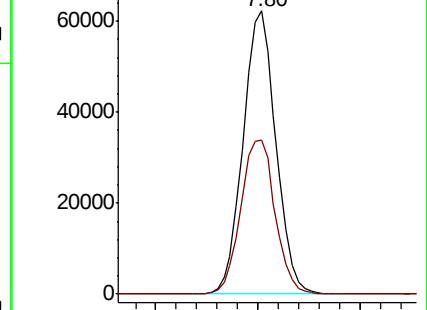
168 100

99 54.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VY002249.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002249.D (-985) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.96 min Scan# 528

Delta R.T. -0.02 min

Lab File: VY002303.D

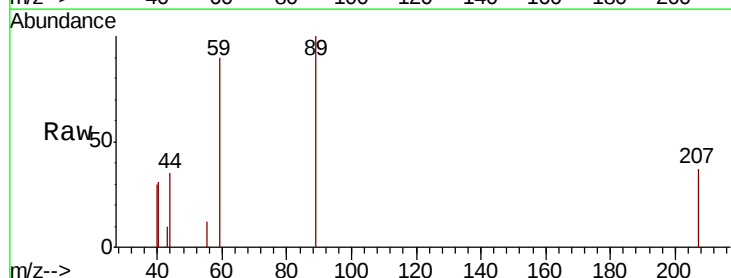
Acq: 14 Apr 2020 13:12

Tgt Ion: 59 Resp: 932

Ion Ratio Lower Upper

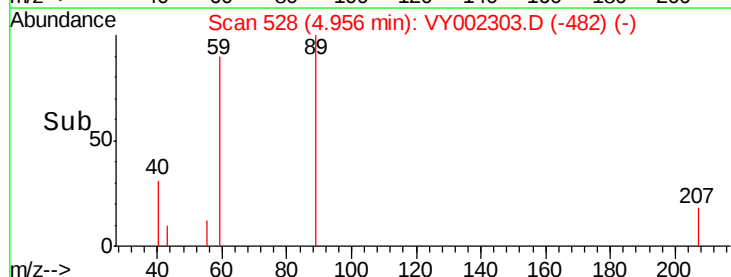
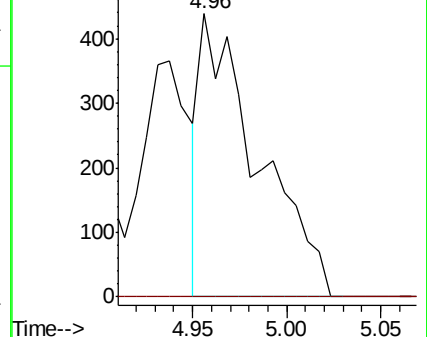
59 100

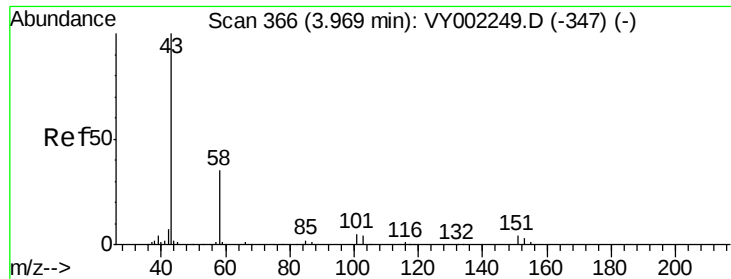
57 0.0 6.6 9.8#



Abundance Ion 59.00 (58.70 to 59.70): VY002249.D (-514) (-)

Ion 57.00 (56.70 to 57.70): VY002249.D (-514) (-)





#16

Acetone

Concen: 6.280 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.00 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

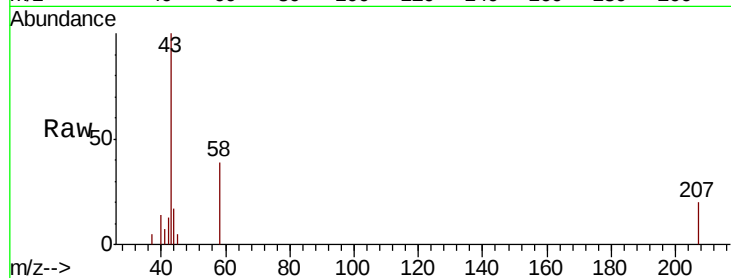
BP-VPB180-GW-98-100

Tot Ion: 43 Resp: 2555

Ion Ratio Lower Upper

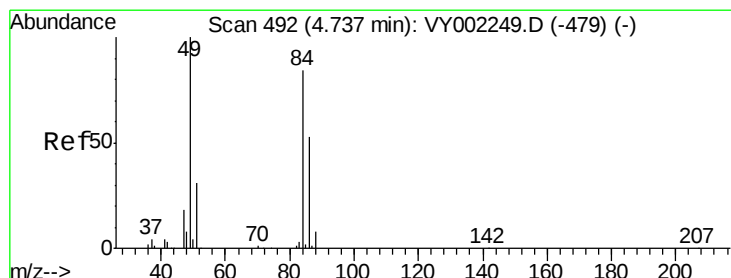
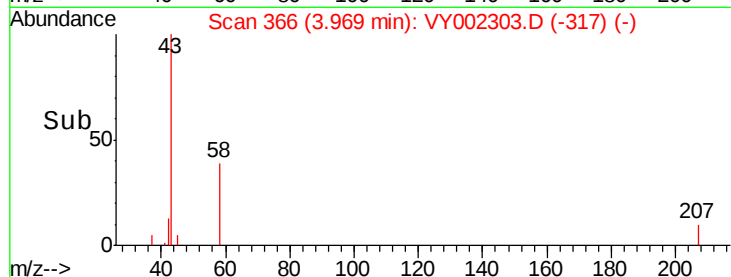
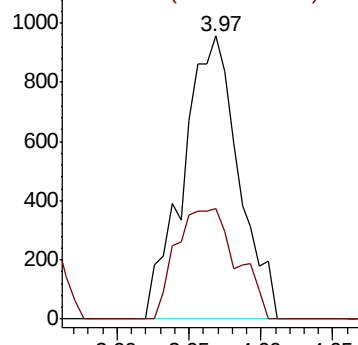
43 100

58 39.1 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#20

Methylene Chloride

Concen: 2.467 ug/l

RT: 4.74 min Scan# 492

Delta R.T. 0.00 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Tgt Ion: 84 Resp: 4934

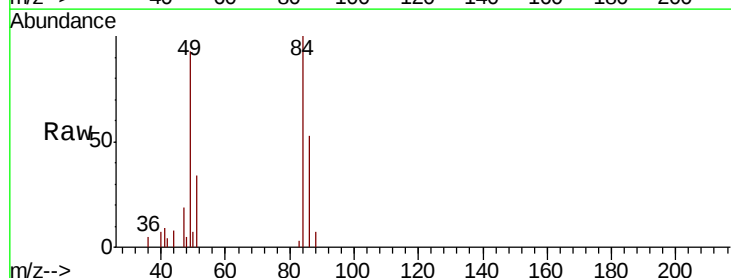
Ion Ratio Lower Upper

84 100

49 93.0 95.5 143.3#

51 33.6 29.5 44.3

86 52.6 50.7 76.1

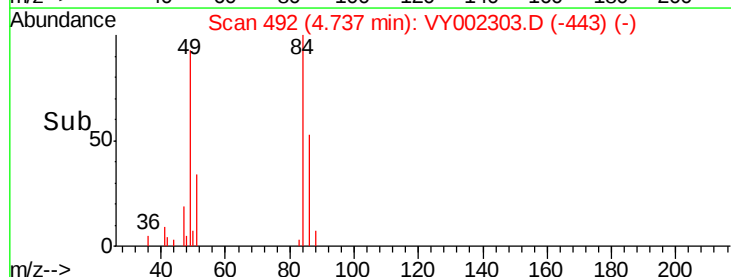
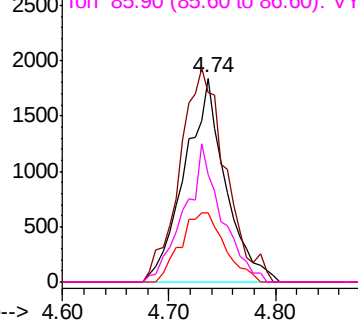


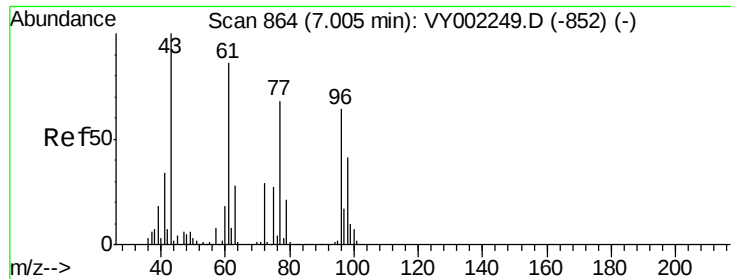
Abundance Ion 83.90 (83.60 to 84.60): VY0

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

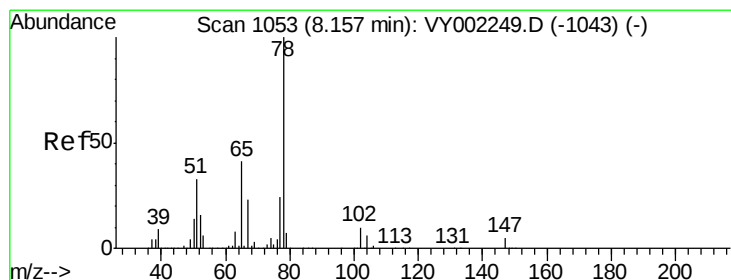
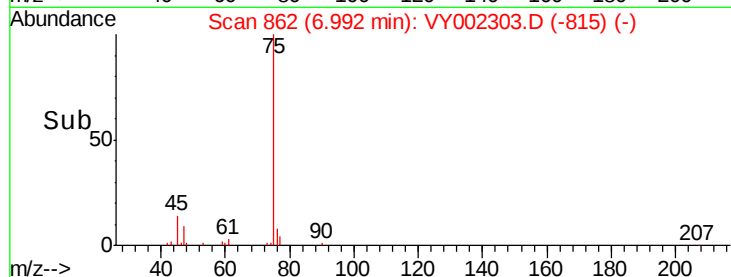
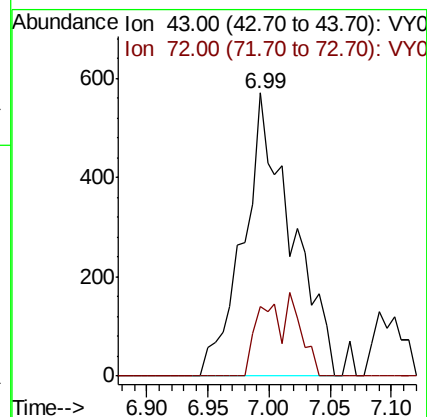
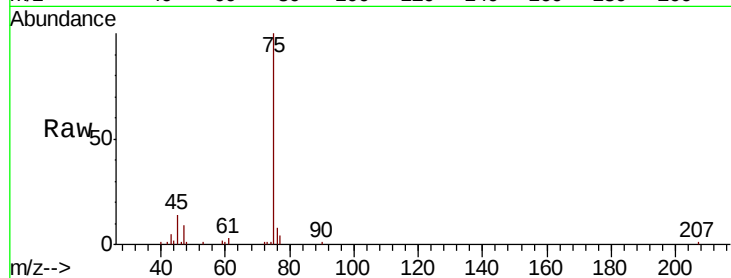




#25  
 2-Butanone  
 Concen: 2.421 ug/l  
 RT: 6.99 min Scan# 862  
 Delta R.T. -0.01 min  
 Lab File: VY002303.D  
 Acq: 14 Apr 2020 13:12

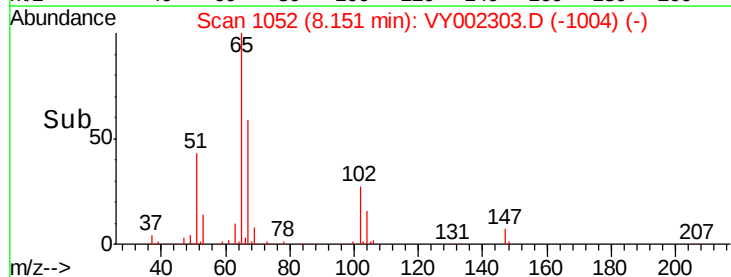
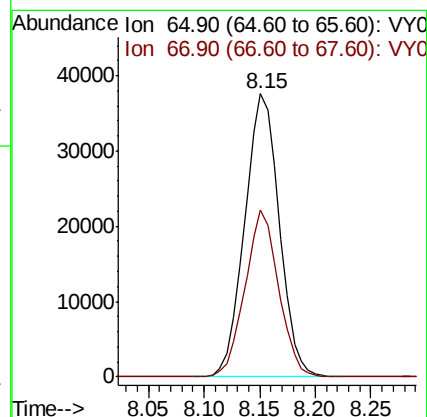
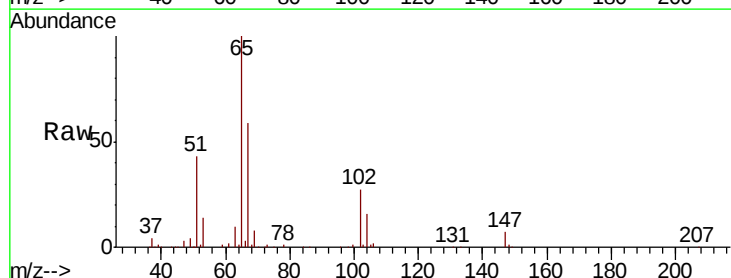
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 BP-VPB180-GW-98-100

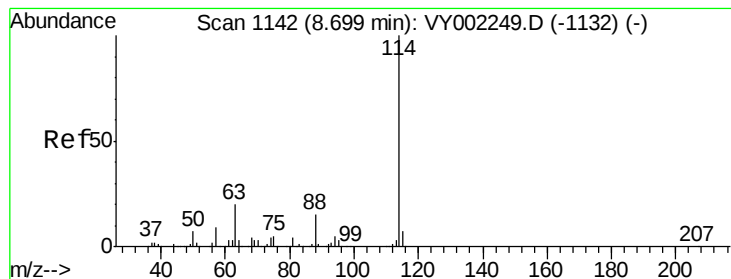
Tot Ion: 43 Resp: 1559  
 Ion Ratio Lower Upper  
 43 100  
 72 24.6 23.2 34.8



#33  
 1,2-Dichloroethane-d4  
 Concen: 52.509 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. -0.01 min  
 Lab File: VY002303.D  
 Acq: 14 Apr 2020 13:12

Tgt Ion: 65 Resp: 81113  
 Ion Ratio Lower Upper  
 65 100  
 67 57.5 0.0 114.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

BP-VPB180-GW-98-100

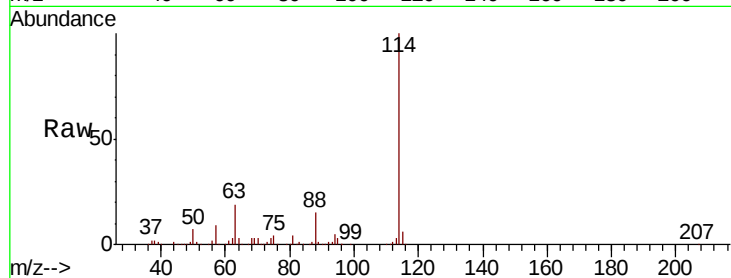
Tot Ion:114 Resp: 279500

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.0

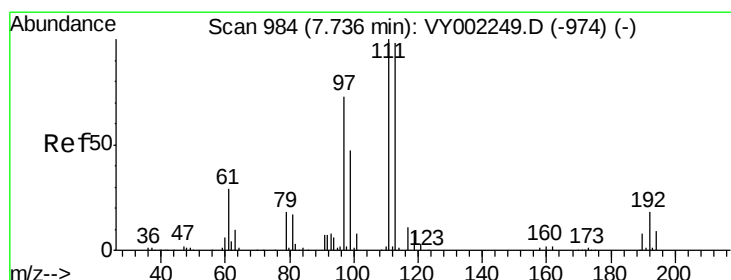
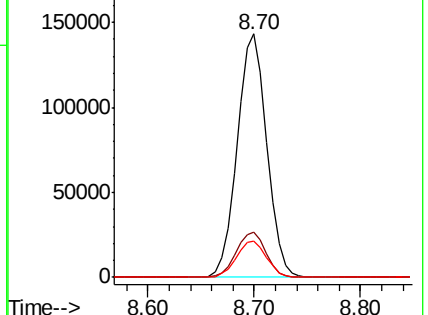
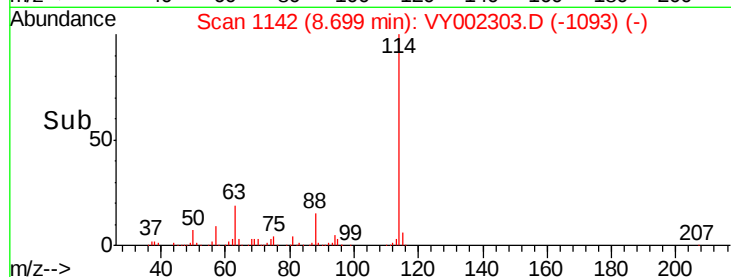
88 14.9 0.0 31.0



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: 49.633 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.01 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

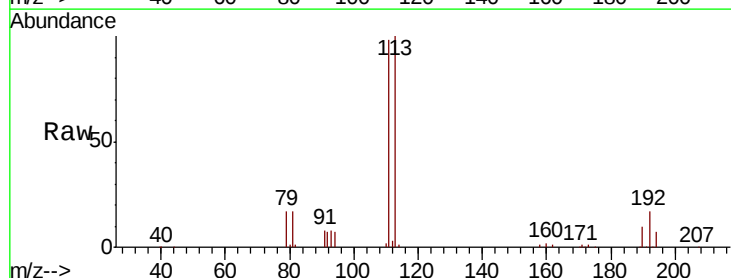
Tgt Ion:113 Resp: 82545

Ion Ratio Lower Upper

113 100

111 103.3 83.5 125.3

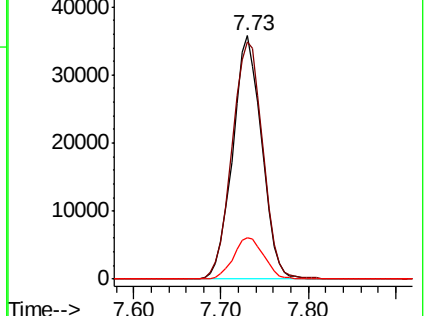
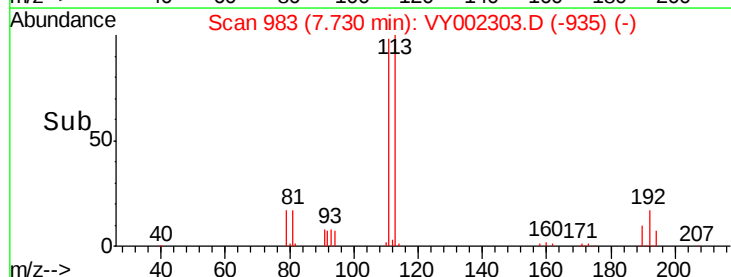
192 17.7 14.7 22.1

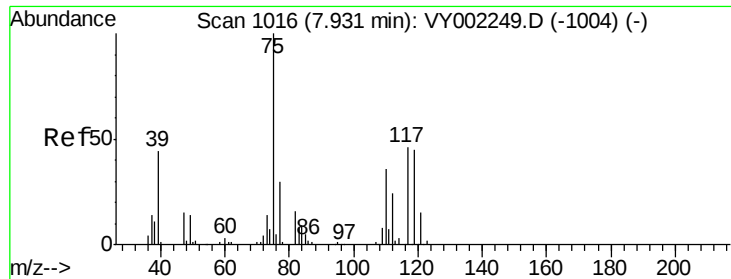


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

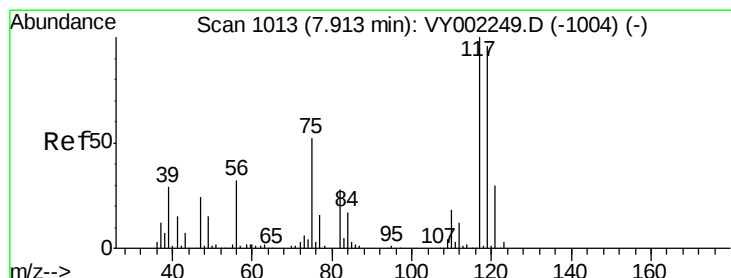
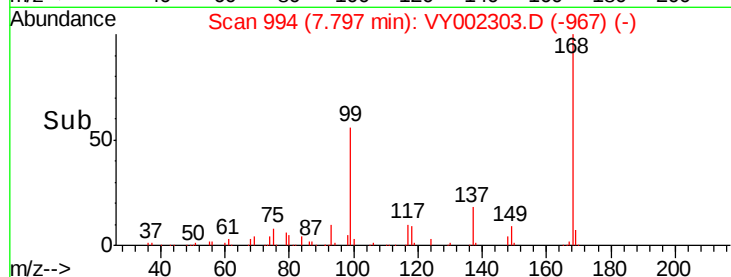
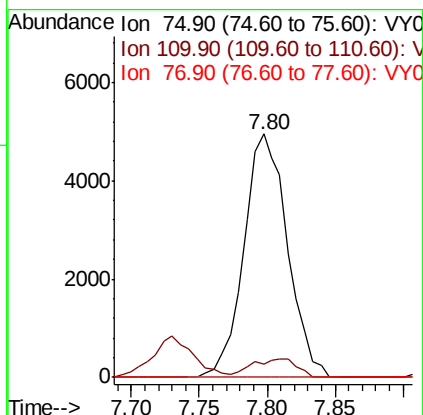
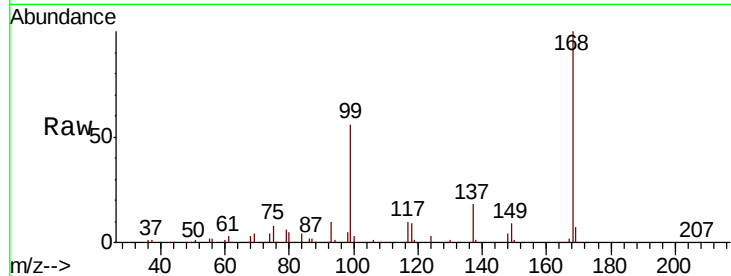




#36  
 1,1-Dichloropropene  
 Concen: 4.019 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY002303.D  
 Acq: 14 Apr 2020 13:12

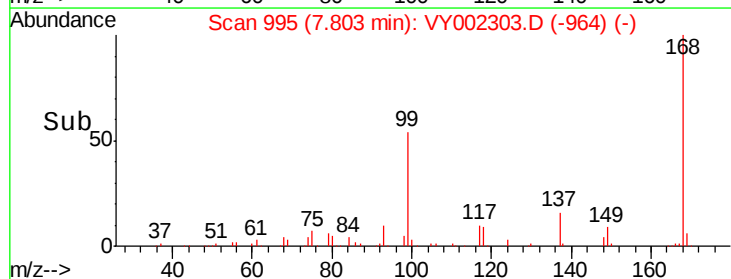
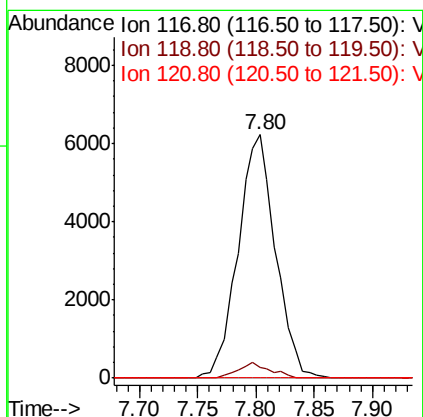
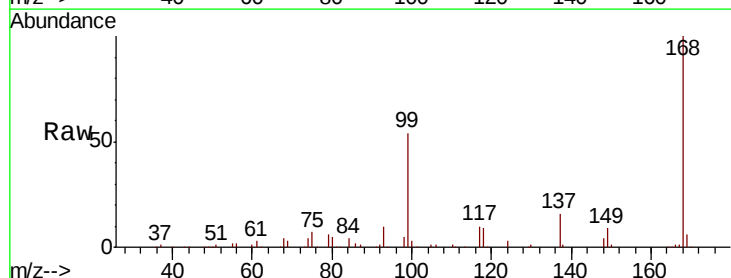
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 BP-VPB180-GW-98-100

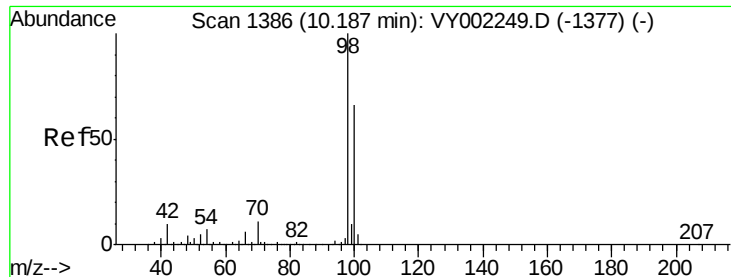
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.9   | 17.8  | 53.3# |
| 77      | 0.0   | 24.4  | 36.6# |



#38  
 Carbon Tetrachloride  
 Concen: 5.909 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.11 min  
 Lab File: VY002303.D  
 Acq: 14 Apr 2020 13:12

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.5   | 77.1  | 115.7# |
| 121     | 0.0   | 23.9  | 35.9#  |





#50

Toluene-d8

Concen: 48.566 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

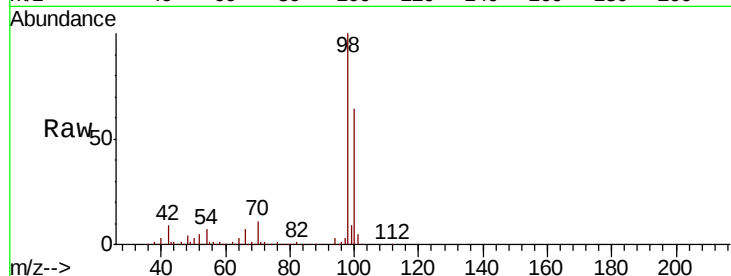
BP-VPB180-GW-98-100

Tot Ion: 98 Resp: 338074

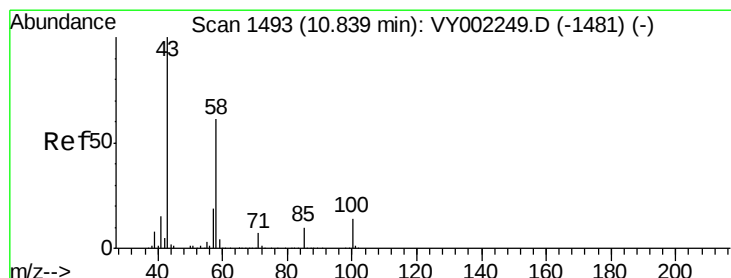
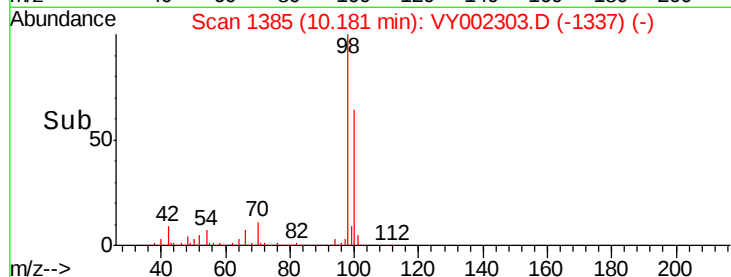
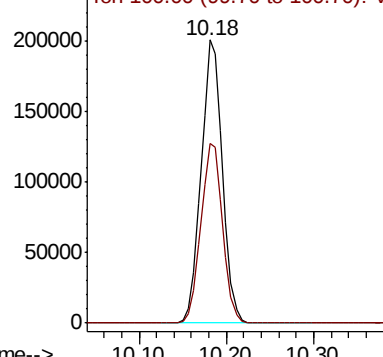
Ion Ratio Lower Upper

98 100

100 64.8 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VY002249.D (-1377) (-)



#59

2-Hexanone

Concen: 1.231 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.04 min

Lab File: VY002303.D

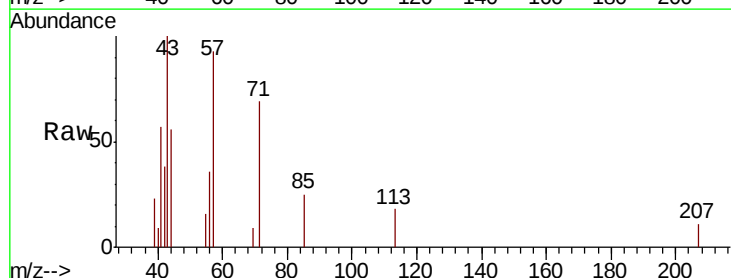
Acq: 14 Apr 2020 13:12

Tgt Ion: 43 Resp: 1277

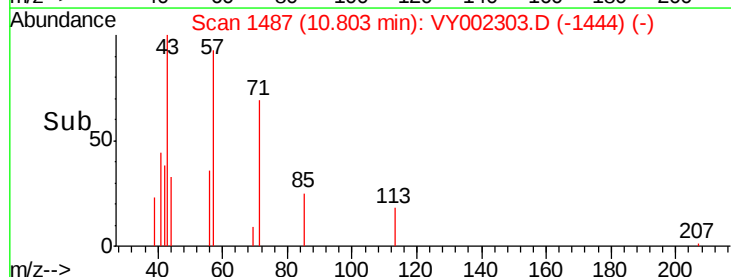
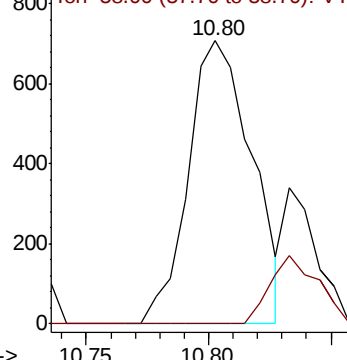
Ion Ratio Lower Upper

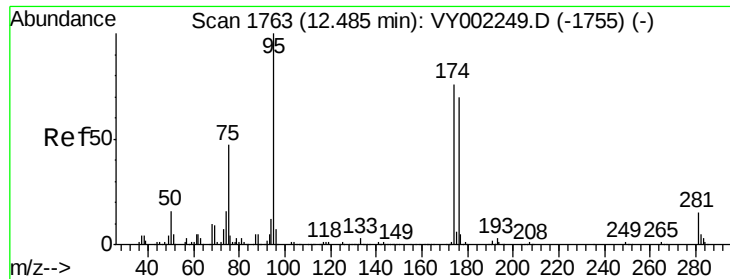
43 100

58 0.0 29.8 89.3#



Abundance Ion 43.00 (42.70 to 43.70): VY002249.D (-1481) (-)

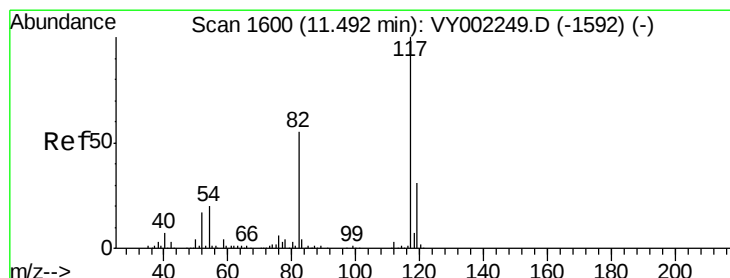
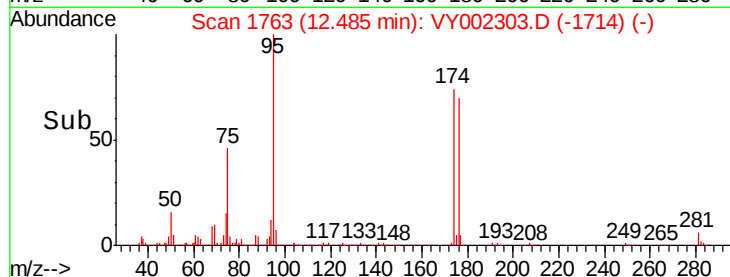
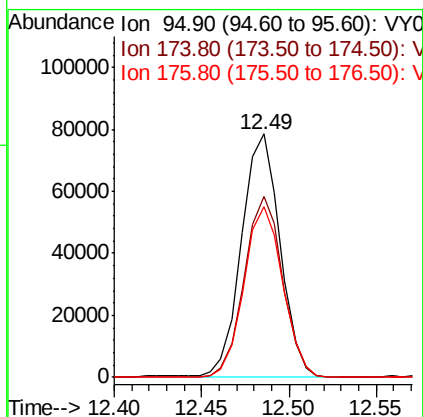
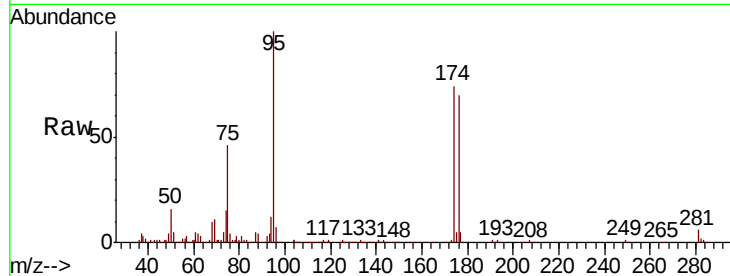




#62  
4-Bromofluorobenzene  
Concen: 52.285 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. 0.00 min  
Lab File: VY002303.D  
Acq: 14 Apr 2020 13:12

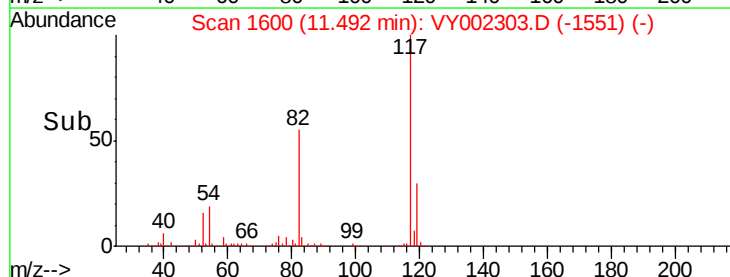
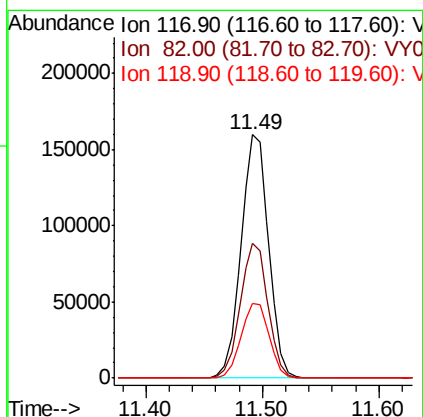
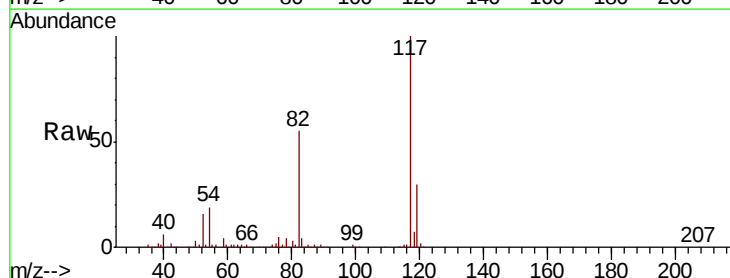
Instrument :  
MSVOA\_Y  
ClientSampleId :  
BP-VPB180-GW-98-100

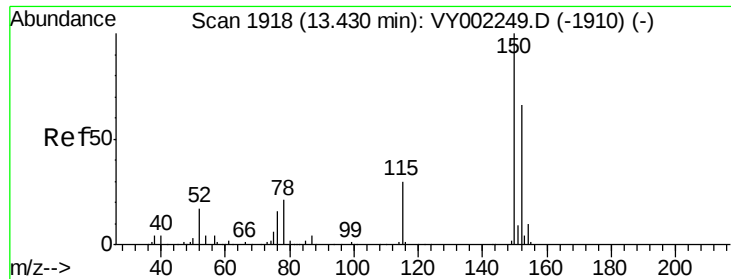
| Tot Ion   | 95    | Resp  | 120077 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 73.9  | 0.0   | 150.6  |
| 176       | 70.6  | 0.0   | 141.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY002303.D  
Acq: 14 Apr 2020 13:12

| Tgt Ion   | 117   | Resp  | 262941 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 55.4  | 44.2  | 66.4   |
| 119       | 30.4  | 25.1  | 37.7   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. 0.00 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

BP-VPB180-GW-98-100

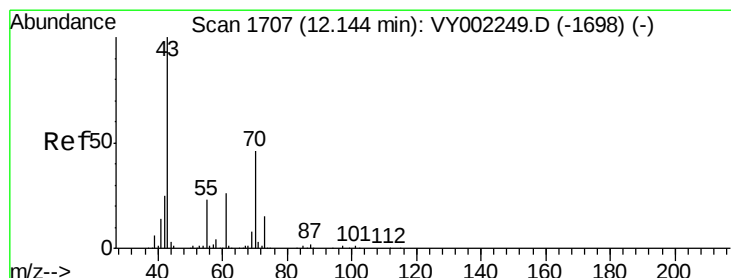
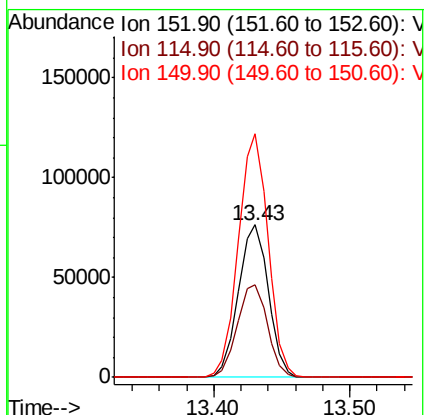
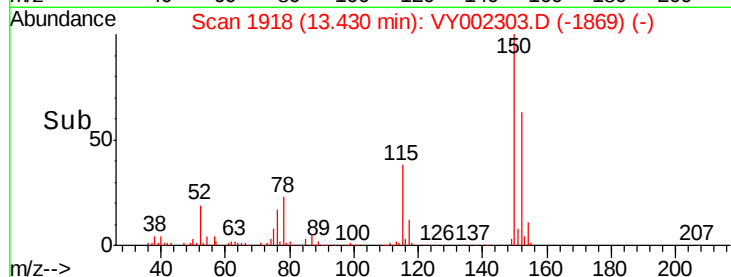
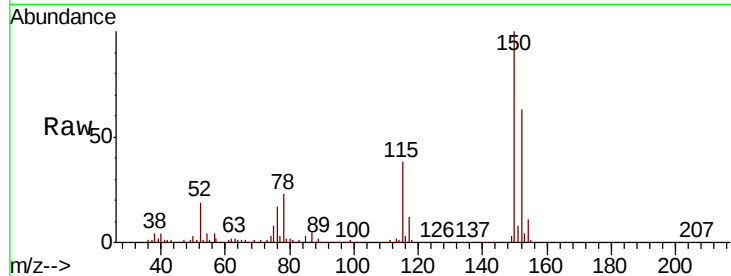
Tot Ion:152 Resp: 117918

Ion Ratio Lower Upper

152 100

115 61.2 30.7 92.1

150 157.5 0.0 350.6



#74

N-ethyl acetate

Concen: 1.746 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Tgt Ion: 43 Resp: 4591

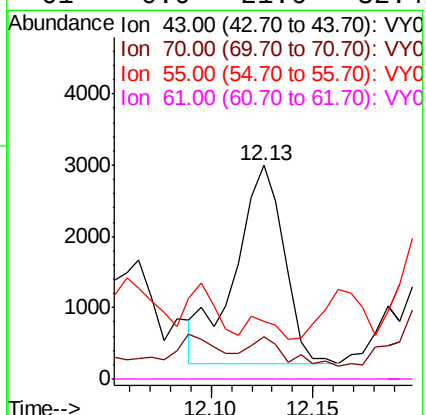
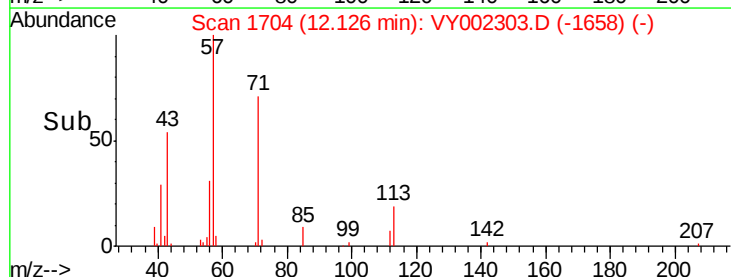
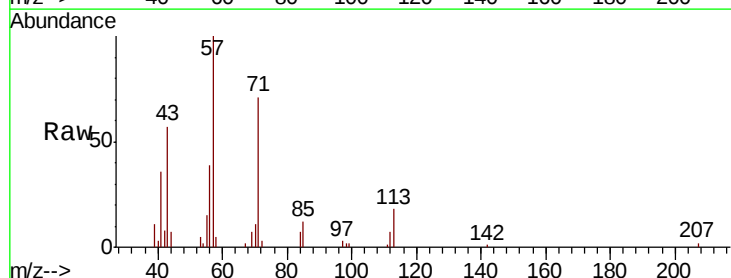
Ion Ratio Lower Upper

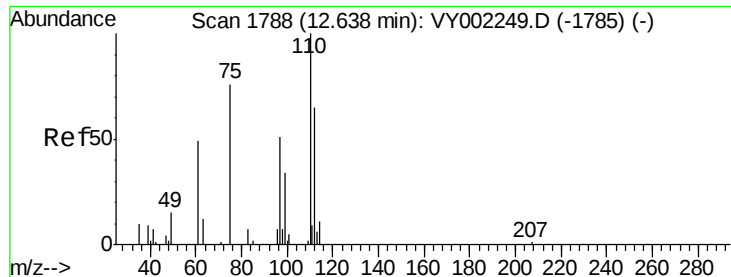
43 100

70 11.5 37.5 56.3#

55 0.0 19.0 28.6#

61 0.0 21.6 32.4#





#76

1,2,3-Trichloropropane

Concen: 41.614 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

Instrument :

MSVOA\_Y

ClientSampleId :

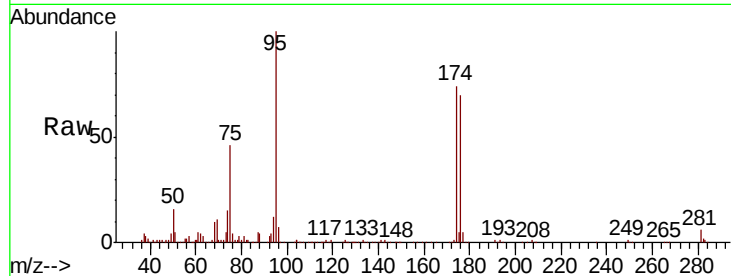
BP-VPB180-GW-98-100

Tot Ion: 75 Resp: 56981

Ion Ratio Lower Upper

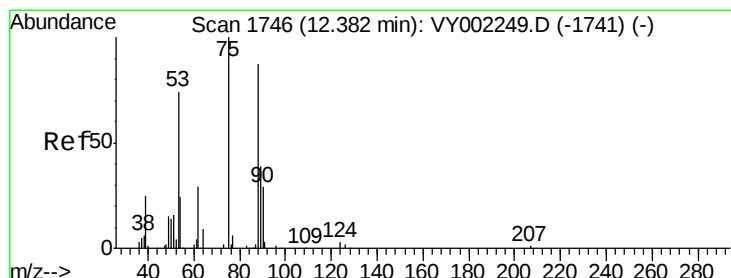
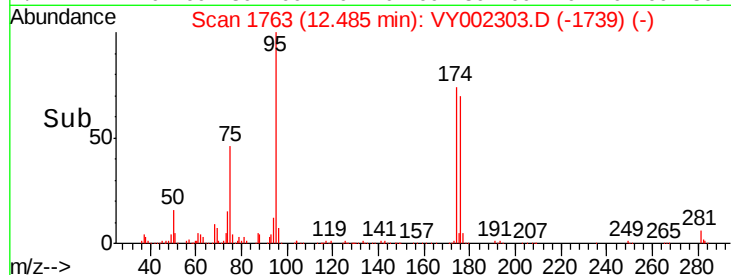
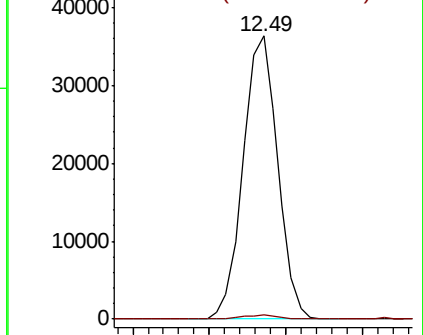
75 100

77 1.8 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: 80.938 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002303.D

Acq: 14 Apr 2020 13:12

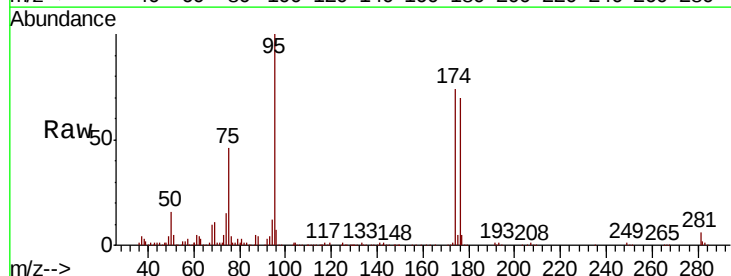
Tgt Ion: 75 Resp: 56981

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.8#

89 0.2 37.0 55.6#



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

