

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112020\  
 Data File : VY003571.D  
 Acq On : 20 Nov 2020 16:33  
 Operator : SY/MD  
 Sample : L4836-03  
 Misc : 6.69G/5ML/MSVOA Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 21 01:52:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112020S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 21 01:00:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 100500   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 222603   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 209893   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 96657    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.14   | 65    | 75172    | 72.04    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 144.08% |
| 35) Dibromofluoromethane  | 7.72   | 113   | 76642    | 52.38    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 104.76% |
| 50) Toluene-d8            | 10.18  | 98    | 273367   | 48.04    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 96.08%  |
| 62) 4-Bromofluorobenzene  | 12.48  | 95    | 85983    | 47.62    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 95.24%  |

## Target Compounds

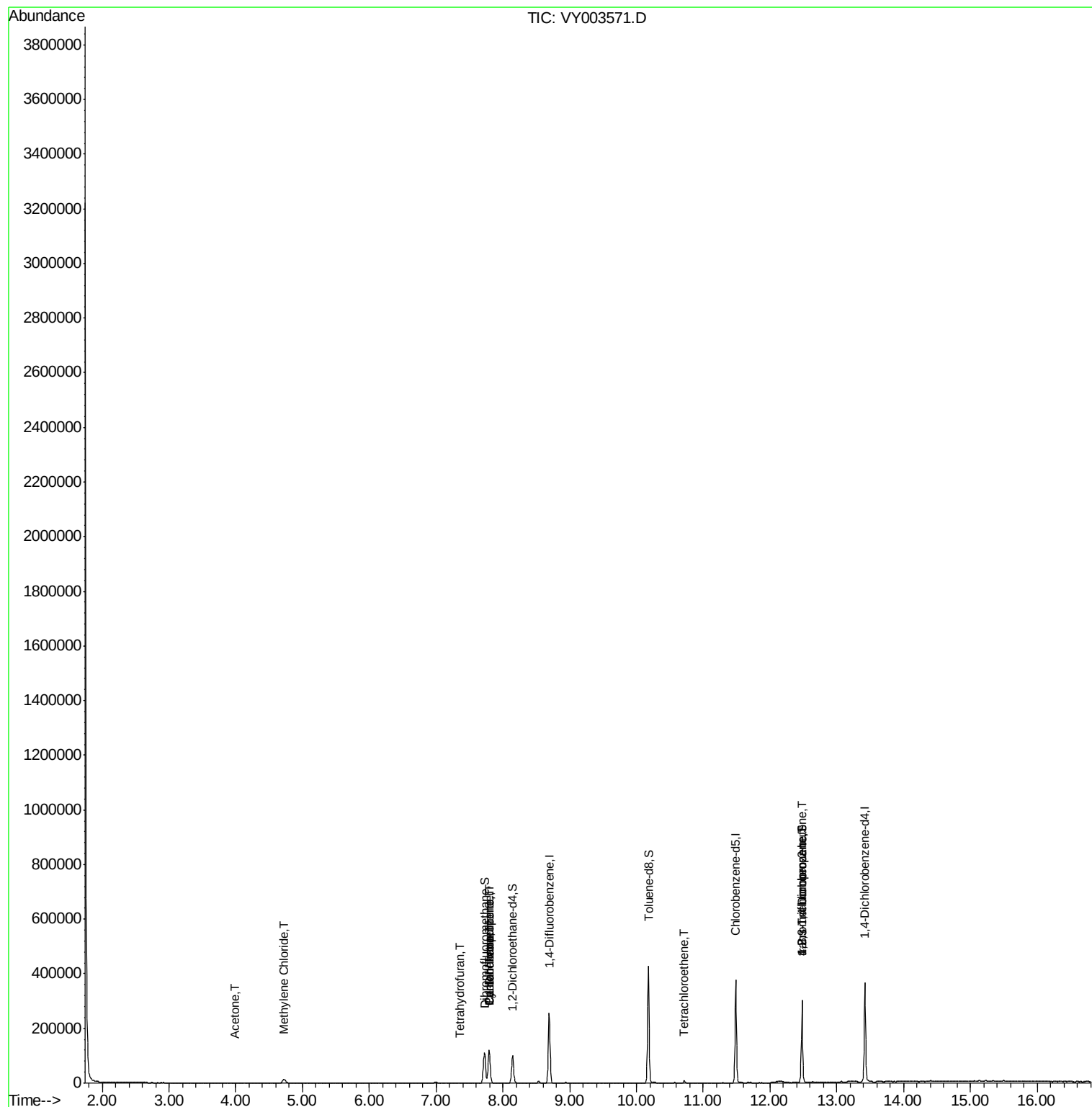
|                                |       |     |       |        | Qvalue |     |
|--------------------------------|-------|-----|-------|--------|--------|-----|
| 16) Acetone                    | 3.97  | 43  | 489   | 1.403  | ug/l # | 45  |
| 20) Methylene Chloride         | 4.72  | 84  | 11106 | 4.672  | ug/l   | 94  |
| 29) Tetrahydrofuran            | 7.36  | 42  | 965   | 4.074  | ug/l   | 90  |
| 31) Cyclohexane                | 7.79  | 56  | 1994  | 1.322  | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.79  | 75  | 6988  | 3.189  | ug/l # | 49  |
| 38) Carbon Tetrachloride       | 7.80  | 117 | 8997  | 4.432  | ug/l # | 18  |
| 64) Tetrachloroethene          | 10.72 | 164 | 1844  | 1.176  | ug/l   | 90  |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 44707 | 47.709 | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 44707 | 75.843 | ug/l # | 14  |

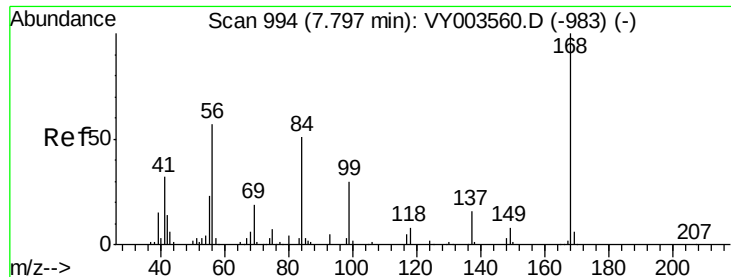
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 21 01:00:42 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

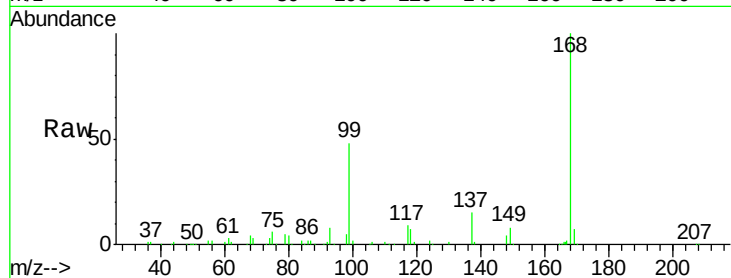
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:168 Resp: 100500

Ion Ratio Lower Upper

168 100

99 47.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): VY003560.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY003560.D (-983) (-)

7.80

50000

40000

30000

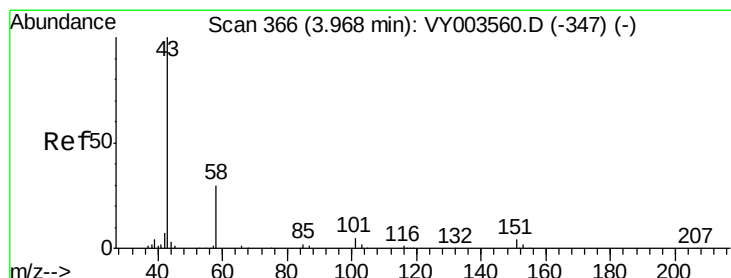
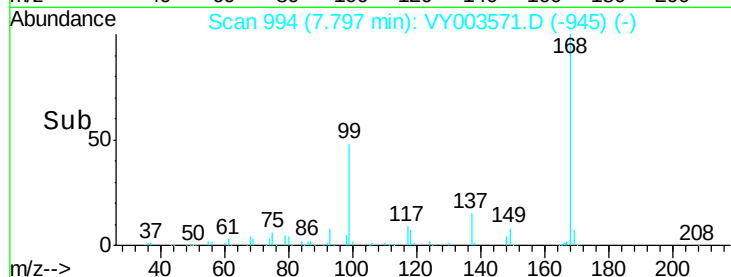
20000

10000

0

Time-->

7.70 7.80 7.90



#16

Acetone

Concen: 1.403 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VY003571.D

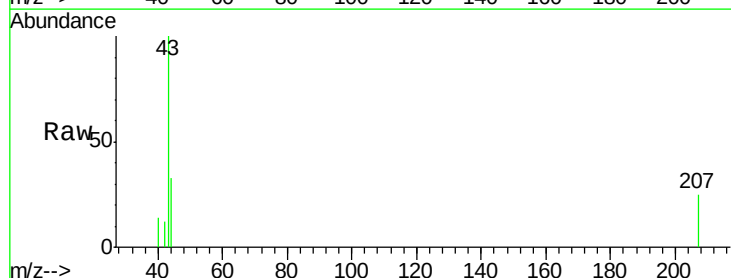
Acq: 20 Nov 2020 16:33

Tgt Ion: 43 Resp: 489

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VY003560.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY003560.D (-347) (-)

3.97

500

400

300

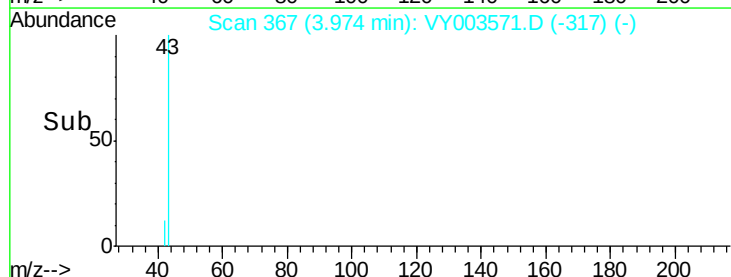
200

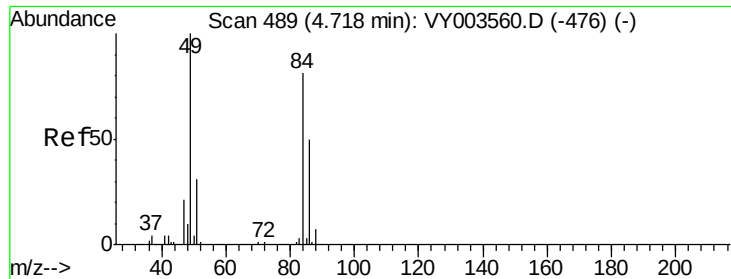
100

0

Time-->

3.94 3.96 3.98 4.00 4.02

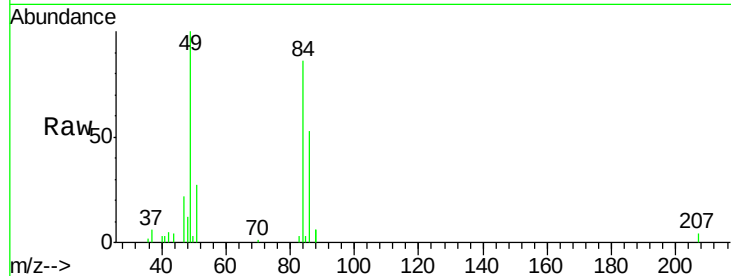




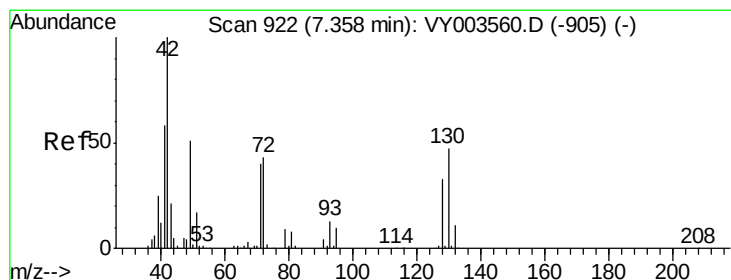
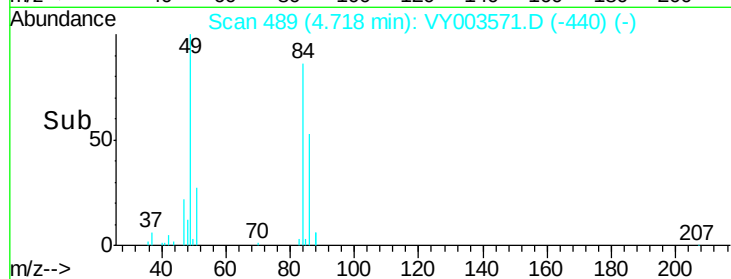
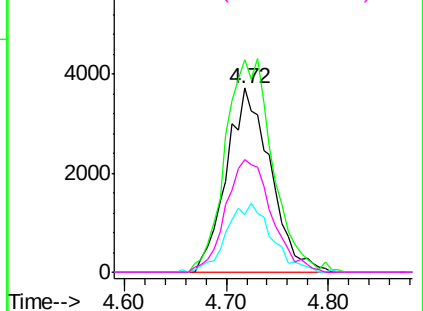
#20  
Methylene Chloride  
Concen: 4.672 ug/l  
RT: 4.72 min Scan# 489  
Delta R.T. 0.00 min  
Lab File: VY003571.D  
Acq: 20 Nov 2020 16:33

Instrument :  
MSVOA\_Y  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 11106 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.7 | 99.0  | 148.6 |
| 51       | 31.6  | 30.5  | 45.7  |
| 86       | 61.1  | 49.9  | 74.9  |

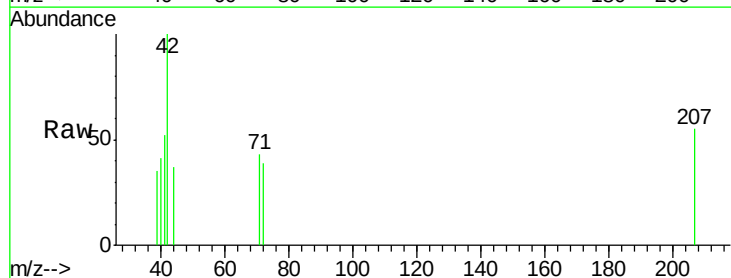


Abundance Ion 83.90 (83.60 to 84.60): VY0  
Ion 48.90 (48.60 to 49.60): VY0  
Ion 50.90 (50.60 to 51.60): VY0  
Ion 85.90 (85.60 to 86.60): VY0

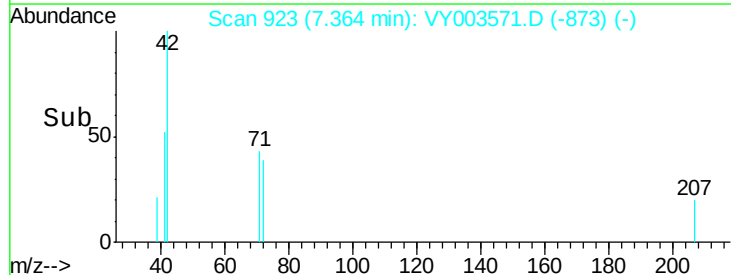
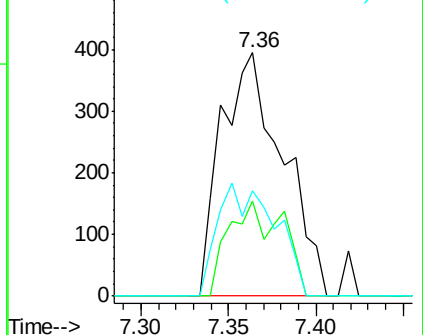


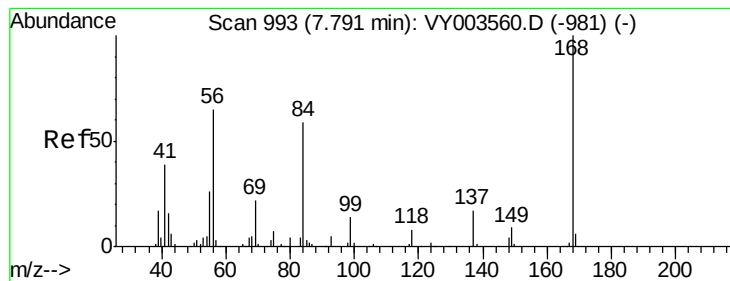
#29  
Tetrahydrofuran  
Concen: 4.074 ug/l  
RT: 7.36 min Scan# 923  
Delta R.T. 0.01 min  
Lab File: VY003571.D  
Acq: 20 Nov 2020 16:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 965   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 33.7  | 32.6  | 49.0  |
| 71       | 42.9  | 30.2  | 45.2  |



Abundance Ion 42.00 (41.70 to 42.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0  
Ion 71.00 (70.70 to 71.70): VY0





#31

Cyclohexane

Concen: 1.322 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.00 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

Instrument :  
MSVOA\_Y  
ClientSampled :

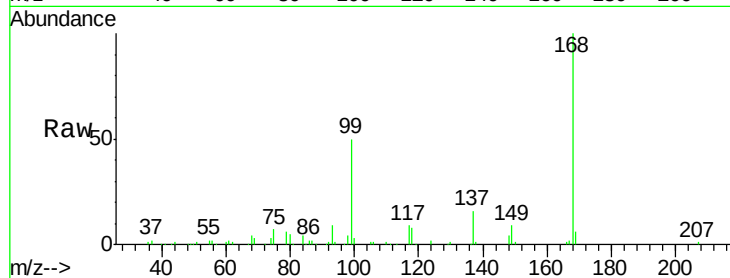
Tot Ion: 56 Resp: 1994

Ion Ratio Lower Upper

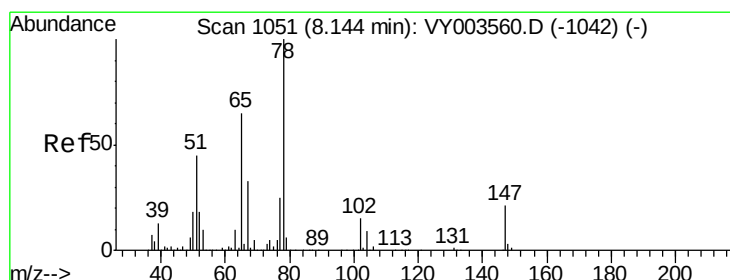
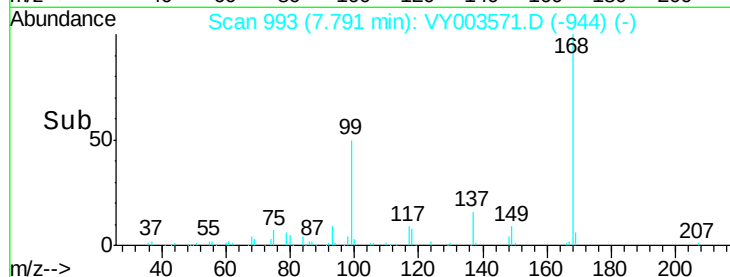
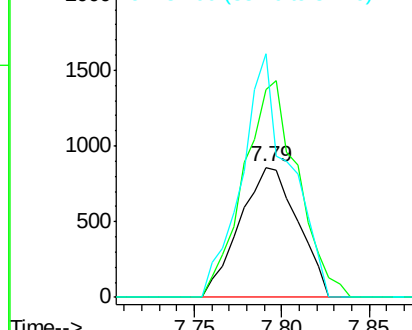
56 100

69 159.7 27.0 40.6#

84 187.6 71.8 107.6#



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: 72.037 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VY003571.D

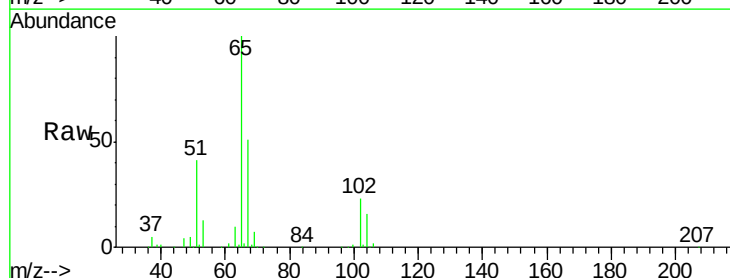
Acq: 20 Nov 2020 16:33

Tgt Ion: 65 Resp: 75172

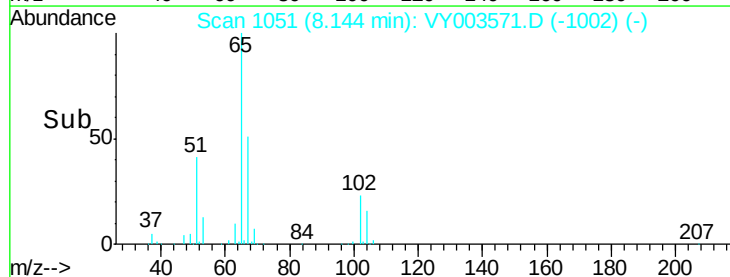
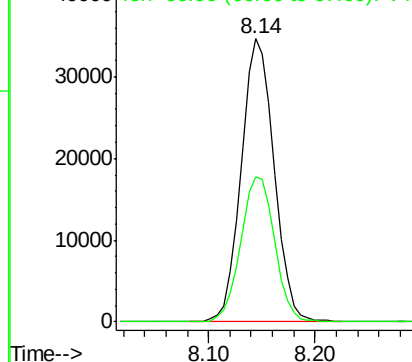
Ion Ratio Lower Upper

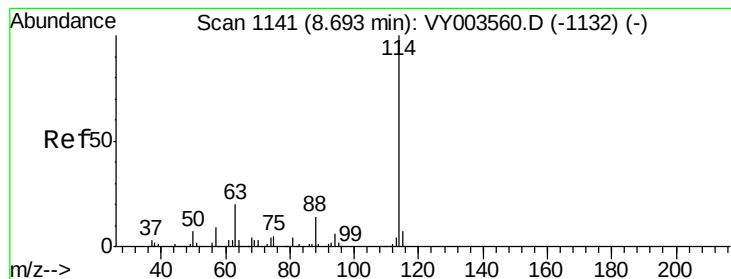
65 100

67 53.0 0.0 110.2



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: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

Instrument :

MSVOA\_Y

ClientSampled :

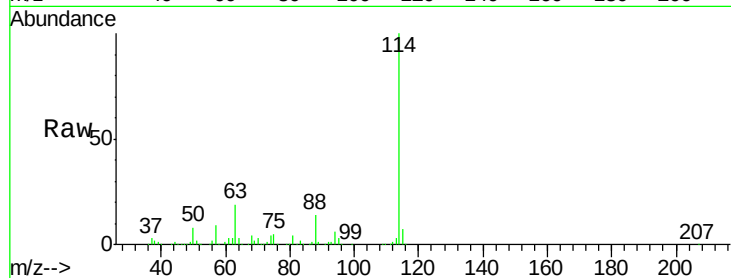
Tot Ion:114 Resp: 222603

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.8

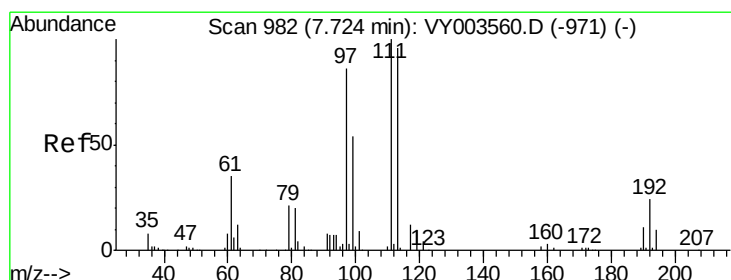
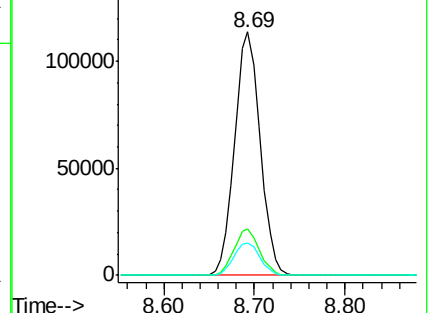
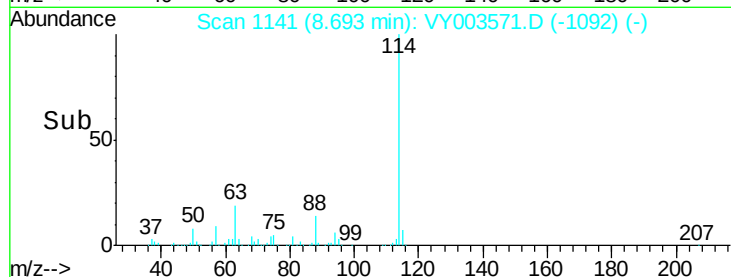
88 13.5 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 52.378 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.00 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

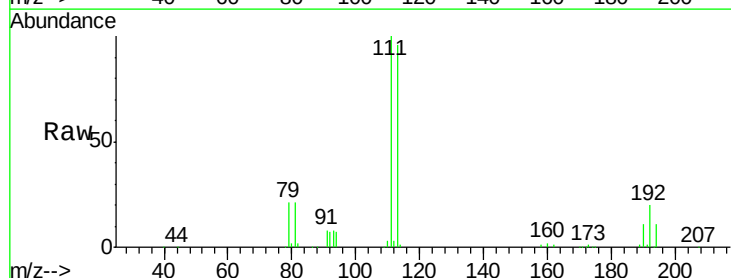
Tgt Ion:113 Resp: 76642

Ion Ratio Lower Upper

113 100

111 101.0 81.4 122.0

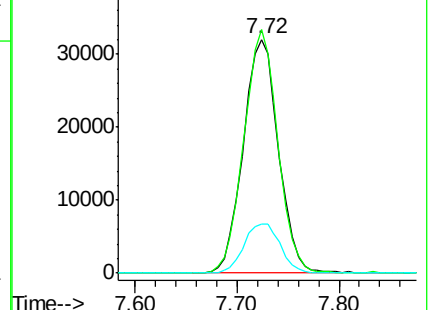
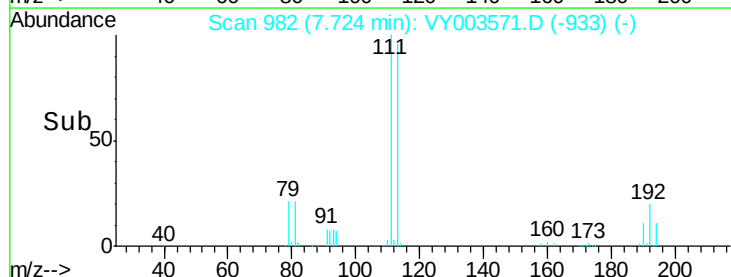
192 21.7 18.1 27.1

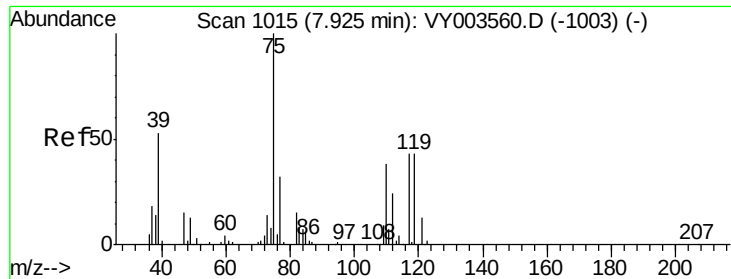


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.189 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.13 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

Instrument :

MSVOA\_Y

ClientSampled :

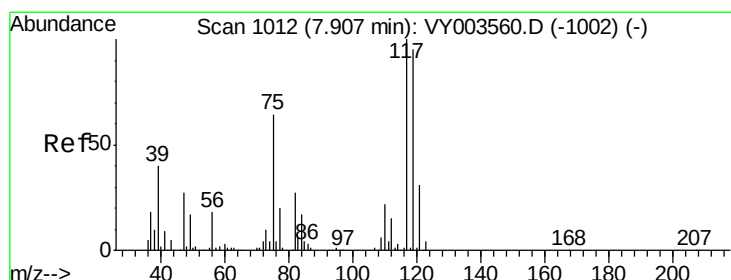
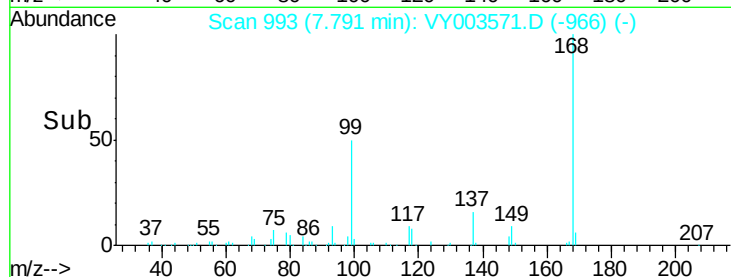
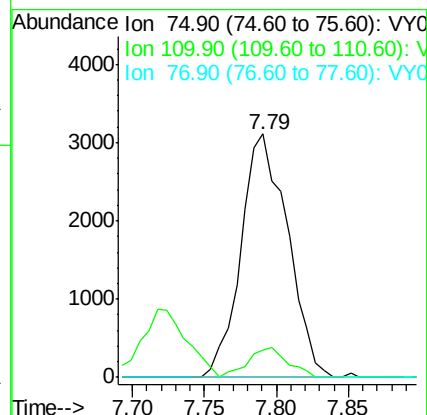
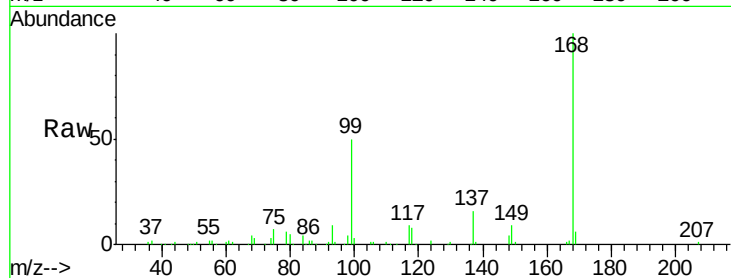
Tot Ion: 75 Resp: 6988

Ion Ratio Lower Upper

75 100

110 10.3 18.7 56.1#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 4.432 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

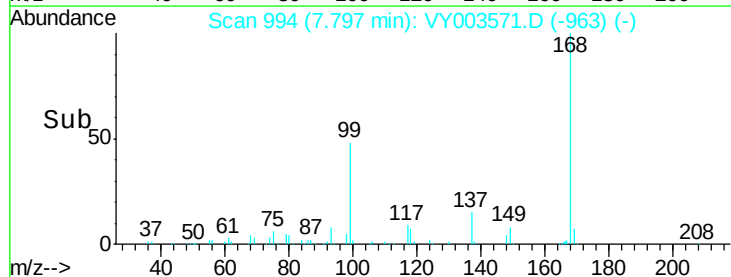
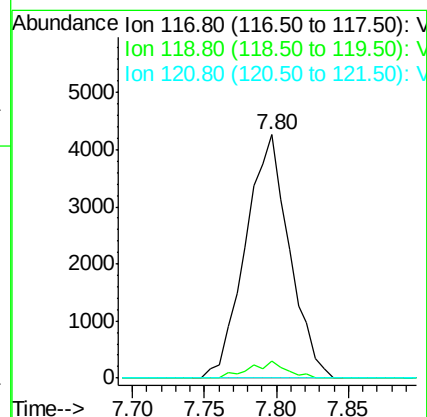
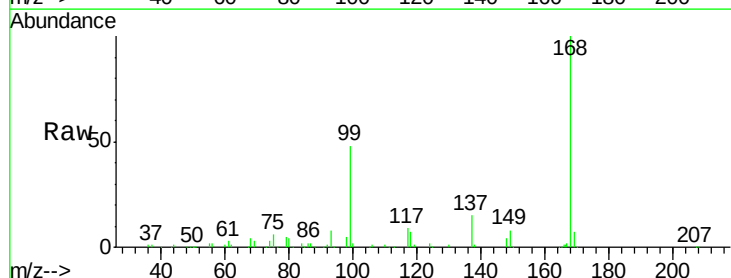
Tgt Ion: 117 Resp: 8997

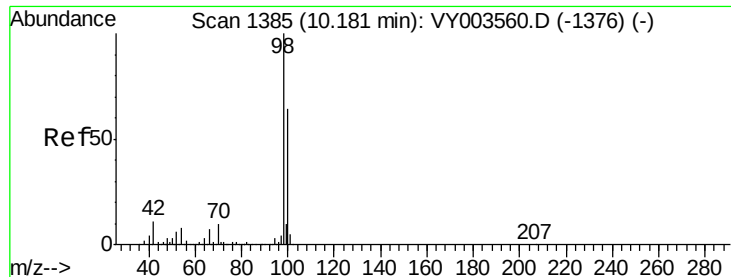
Ion Ratio Lower Upper

117 100

119 6.9 76.3 114.5#

121 0.0 25.1 37.7#





#50

Toluene-d8

Concen: 48.044 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

Instrument :

MSVOA\_Y

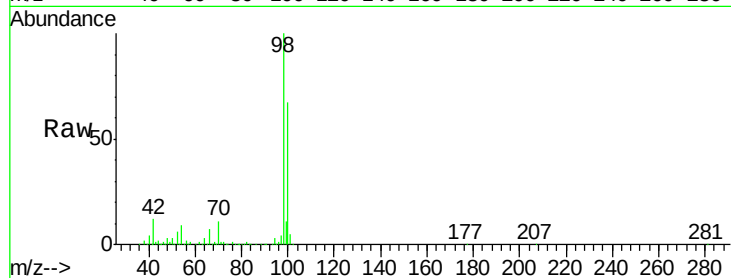
ClientSampleId :

Tot Ion: 98 Resp: 273367

Ion Ratio Lower Upper

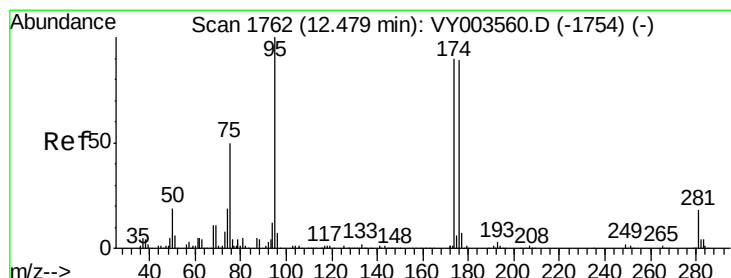
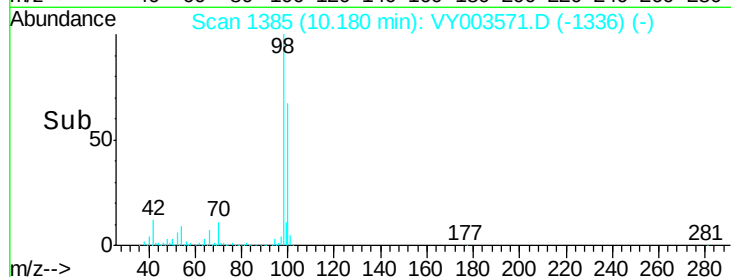
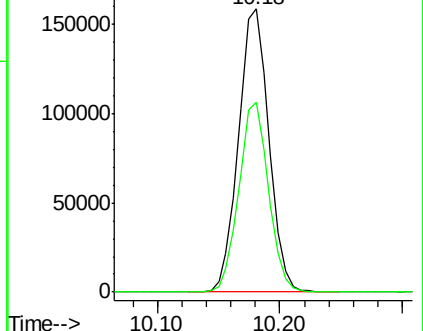
98 100

100 65.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#62

4-Bromofluorobenzene

Concen: 47.617 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

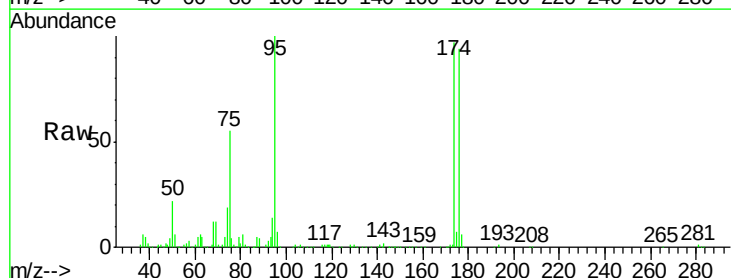
Tgt Ion: 95 Resp: 85983

Ion Ratio Lower Upper

95 100

174 94.3 0.0 184.0

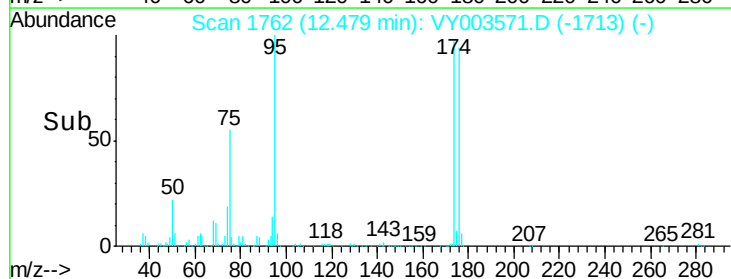
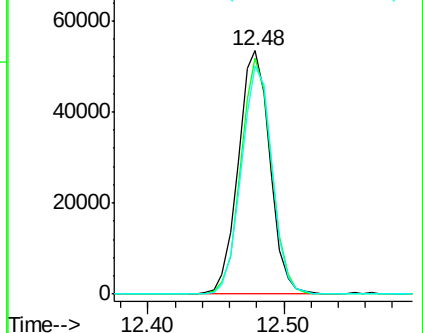
176 91.8 0.0 180.4



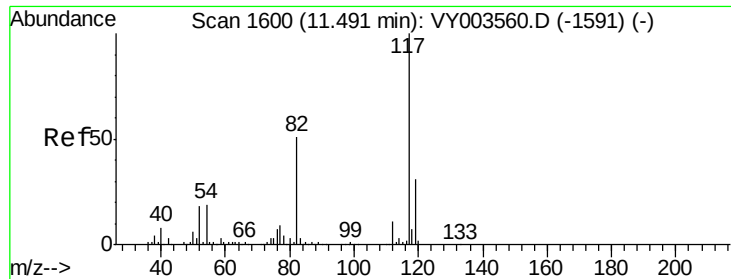
Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



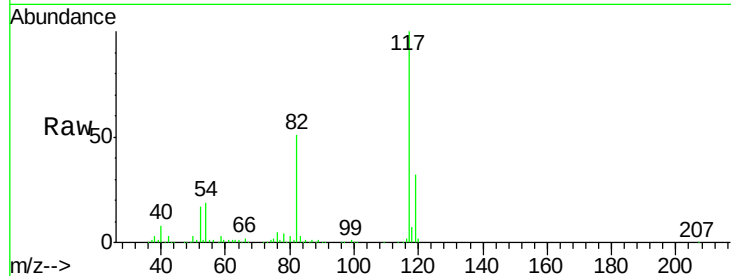




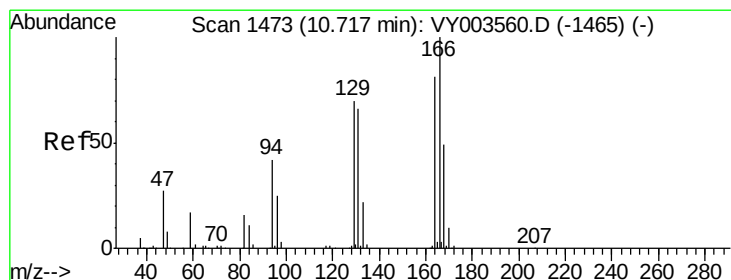
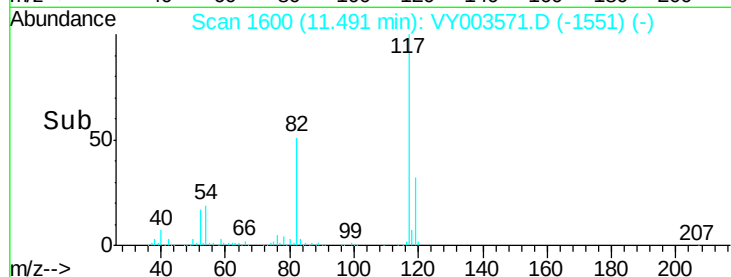
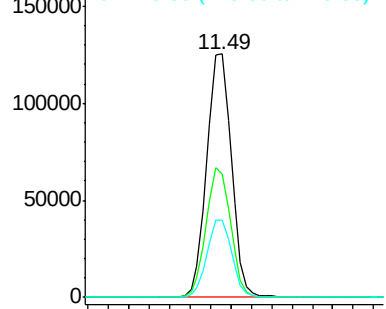
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY003571.D  
Acq: 20 Nov 2020 16:33

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:117 Resp: 209893  
Ion Ratio Lower Upper  
117 100  
82 50.5 41.0 61.6  
119 31.7 25.0 37.6

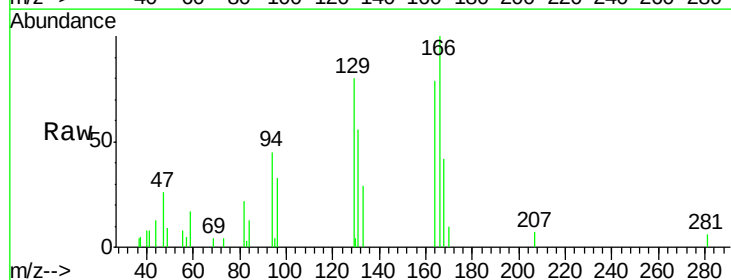


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

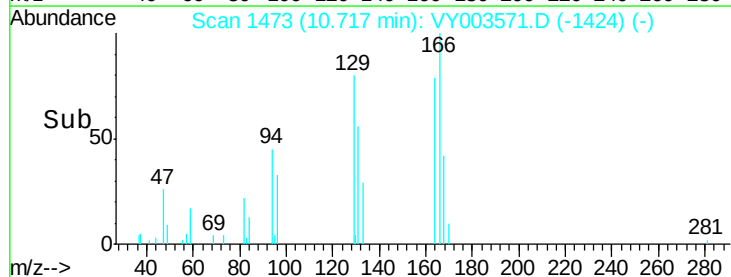
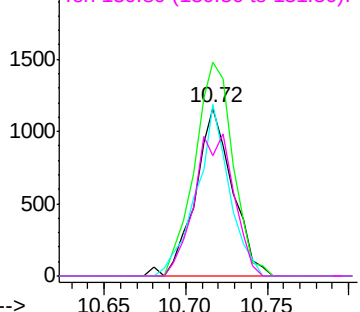


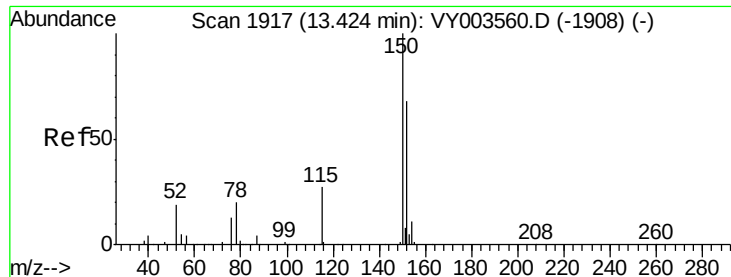
#64  
Tetrachloroethene  
Concen: 1.176 ug/l  
RT: 10.72 min Scan# 1473  
Delta R.T. -0.00 min  
Lab File: VY003571.D  
Acq: 20 Nov 2020 16:33

Tgt Ion:164 Resp: 1844  
Ion Ratio Lower Upper  
164 100  
166 127.3 99.0 148.4  
129 102.3 69.1 103.7  
131 71.8 65.4 98.0



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V



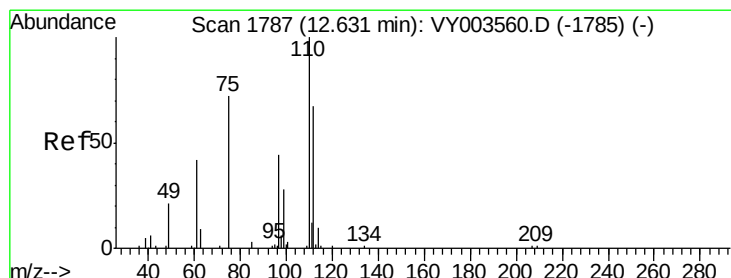
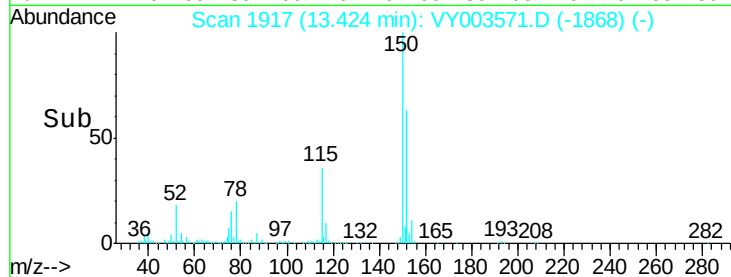
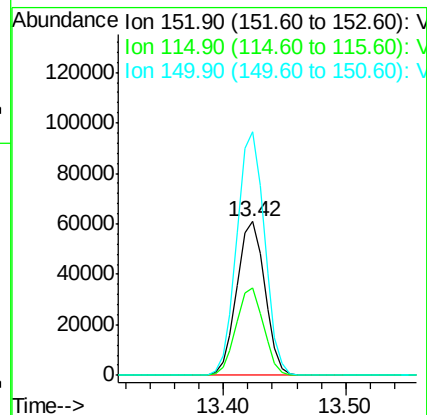
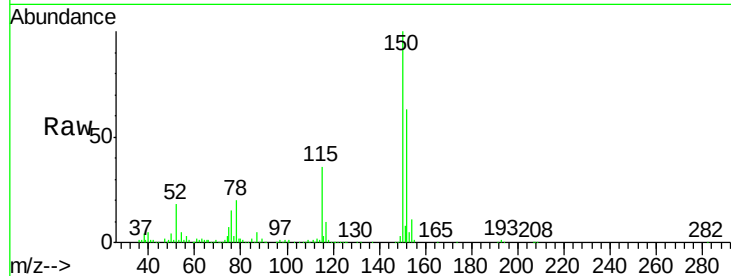


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY003571.D  
Acq: 20 Nov 2020 16:33

Instrument :  
MSVOA\_Y  
ClientSampleId :

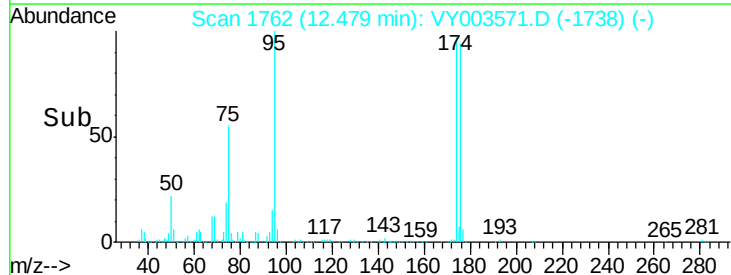
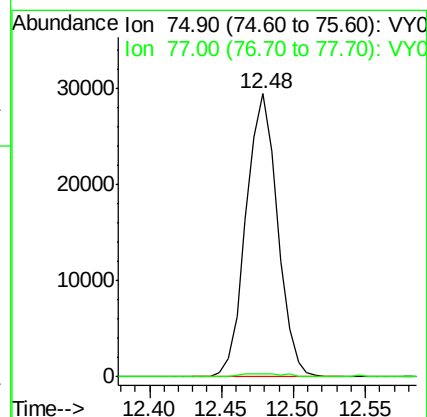
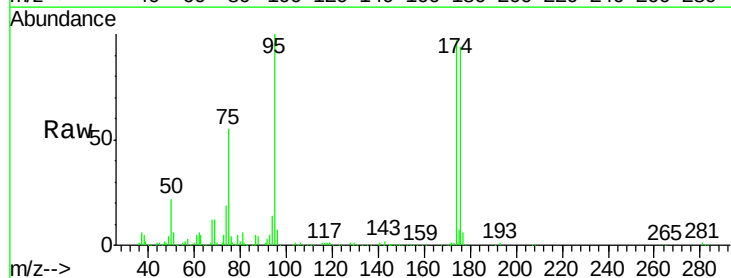
| Tot Ion | 152   | Resp  | 96657 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 152     | 100   |       |       |
| 115     | 55.7  | 27.4  | 82.0  |
| 150     | 156.4 | 0.0   | 349.6 |

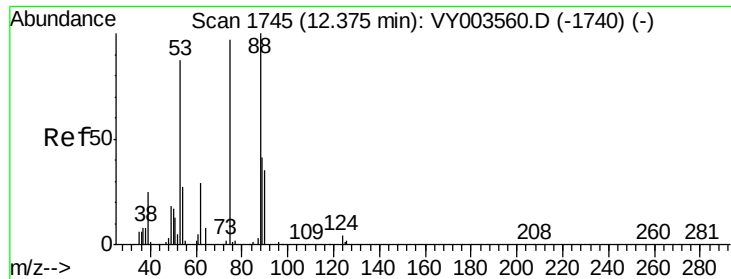


#76

1,2,3-Trichloropropane  
Concen: 47.709 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY003571.D  
Acq: 20 Nov 2020 16:33

| Tgt Ion | 75    | Resp  | 44707 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 75      | 100   |       |       |
| 77      | 1.6   | 0.0   | 0.0#  |





#81

trans-1,4-Dichloro-2-butene

Concen: 75.843 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003571.D

Acq: 20 Nov 2020 16:33

Instrument :

MSVOA\_Y

ClientSampleId :

Tot Ion: 75 Resp: 44707

Ion Ratio Lower Upper

75 100

53 0.2 71.4 107.2#

89 0.0 34.7 52.1#

