

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY072120\  
 Data File : VY003273.D  
 Acq On : 22 Jul 2020 00:50  
 Operator : SY/MD  
 Sample : L3355-03  
 Misc : 7.82G/5ML/MSVOA Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 11935

Quant Time: Jul 22 02:49:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 421806   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 644730   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 585329   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 284248   | 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   | 208741   | 58.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.26% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 199204   | 53.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.38% |          |
| 50) Toluene-d8              | 10.18 | 98   | 781758   | 56.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.34% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 244553   | 49.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.14%  |          |

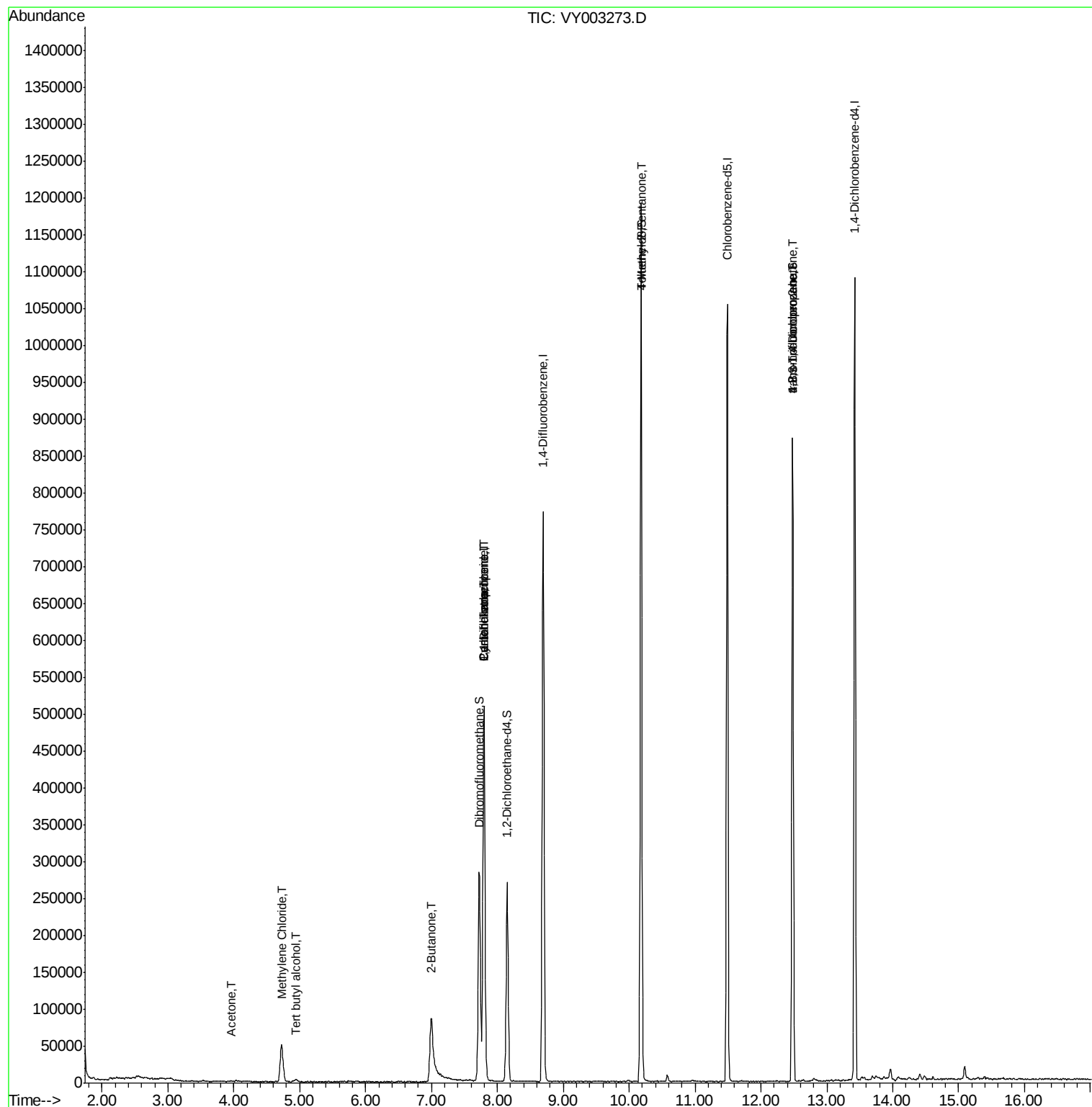
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.94  | 59   | 2979     | 7.738  | ug/l # | 72     |
| 16) Acetone                    | 3.96  | 43   | 1921     | 2.416  | ug/l   | 99     |
| 20) Methylene Chloride         | 4.73  | 84   | 39085    | 4.801  | ug/l   | 98     |
| 25) 2-Butanone                 | 7.00  | 43   | 4984     | 3.817  | ug/l # | 68     |
| 31) Cyclohexane                | 7.80  | 56   | 7222     | 1.115  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 29071    | 4.975  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 38312    | 6.351  | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.18 | 43   | 3340     | 1.055  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 125529   | 49.891 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 125529   | 97.097 | ug/l # | 13     |

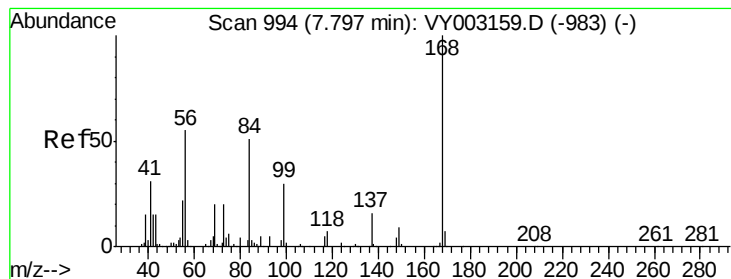
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 10 13:18:03 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: VY003273.D

Acq: 22 Jul 2020 00:50

Instrument :

MSVOA\_Y

ClientSampled :

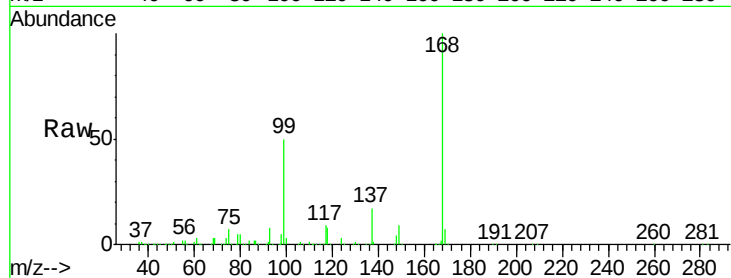
11935

Tot Ion:168 Resp: 421806

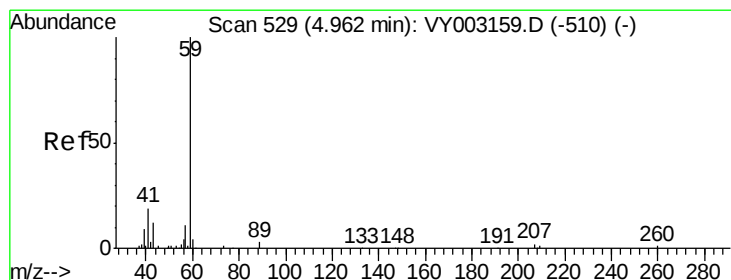
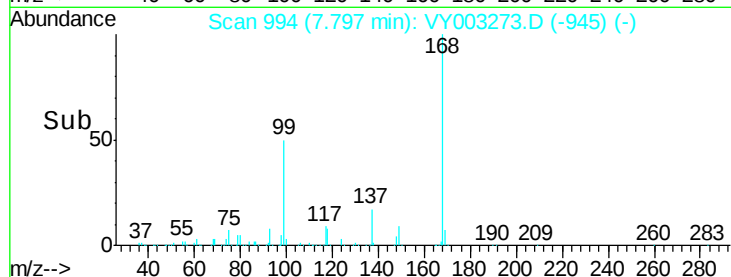
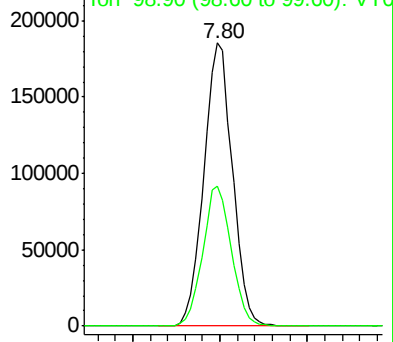
Ion Ratio Lower Upper

168 100

99 49.6 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003273.D (-945) (-)



#11

Tert butyl alcohol

Concen: 7.738 ug/l

RT: 4.94 min Scan# 525

Delta R.T. -0.02 min

Lab File: VY003273.D

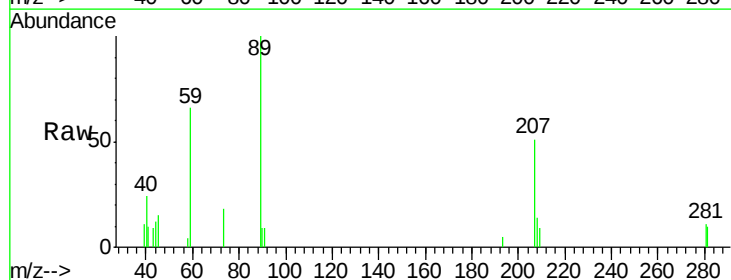
Acq: 22 Jul 2020 00:50

Tgt Ion: 59 Resp: 2979

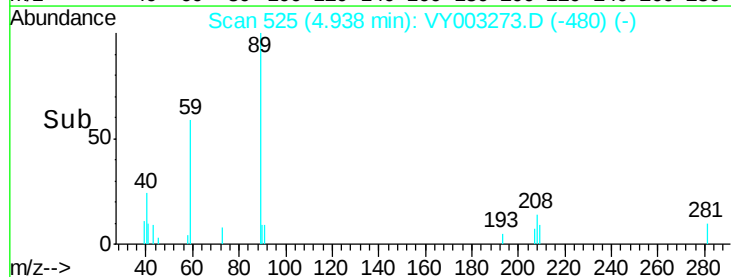
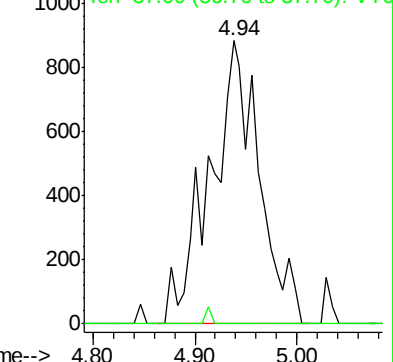
Ion Ratio Lower Upper

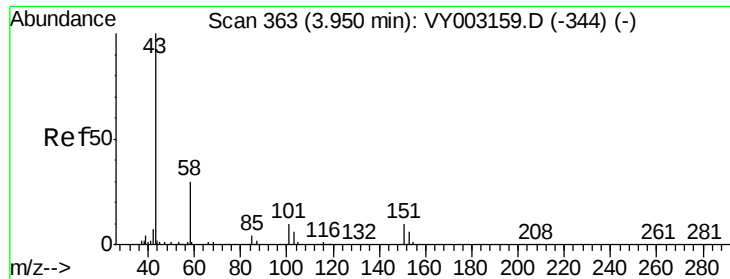
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VY003273.D (-480) (-)





#16

Acetone

Concen: 2.416 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY003273.D

Acq: 22 Jul 2020 00:50

Instrument :

MSVOA\_Y

ClientSampled :

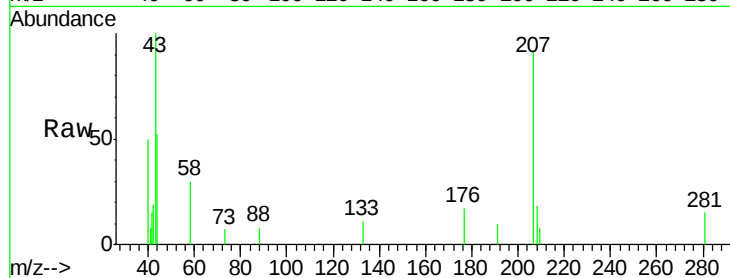
11935

Tot Ion: 43 Resp: 1921

Ion Ratio Lower Upper

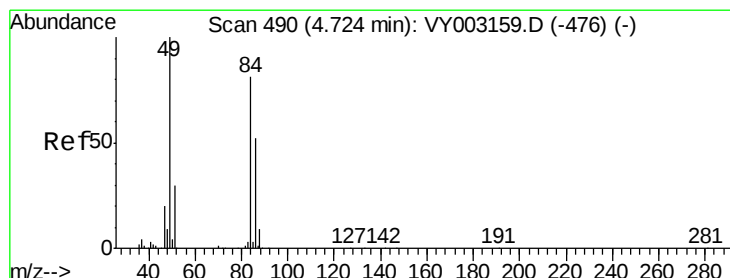
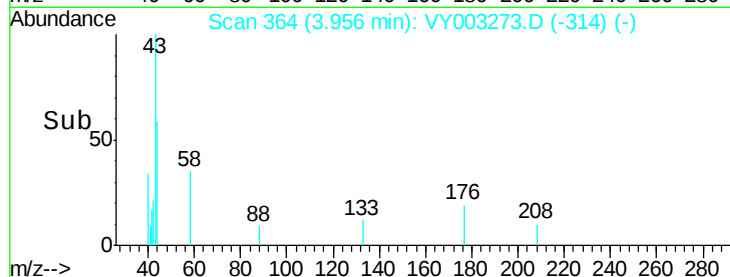
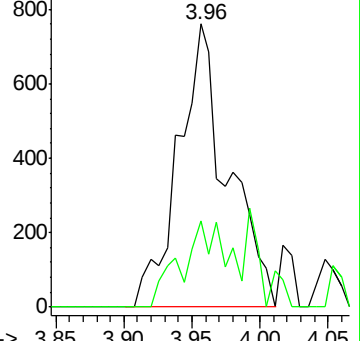
43 100

58 30.5 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#20

Methylene Chloride

Concen: 4.801 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY003273.D

Acq: 22 Jul 2020 00:50

Tgt Ion: 84 Resp: 39085

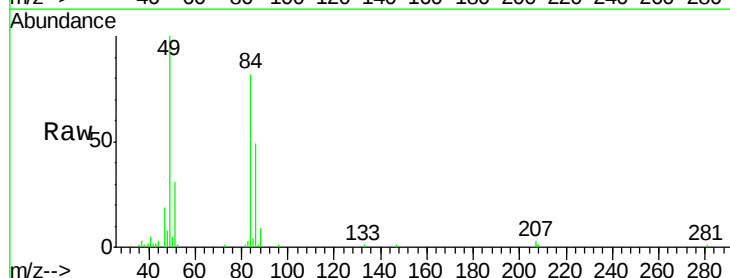
Ion Ratio Lower Upper

84 100

49 121.9 98.2 147.4

51 37.4 29.8 44.6

86 59.6 51.2 76.8

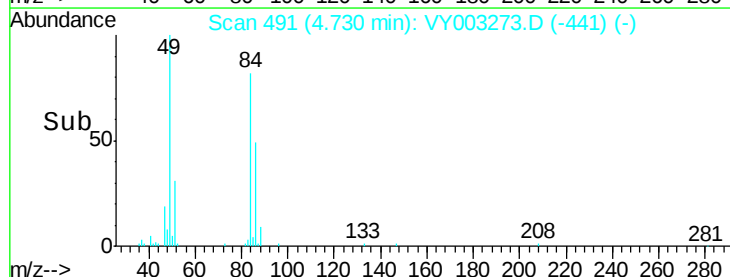
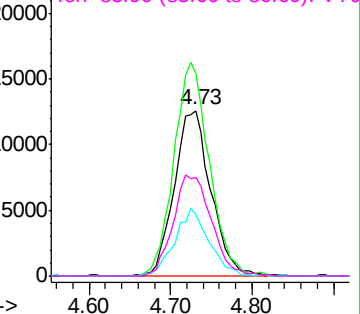


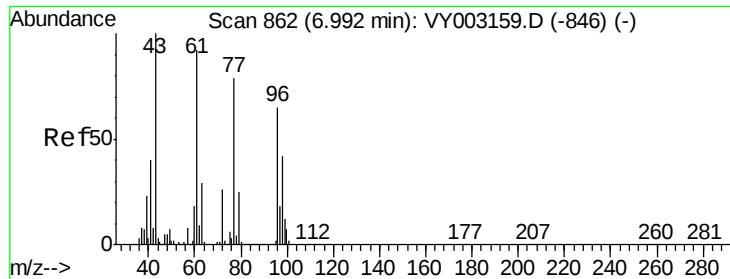
Abundance Ion 83.90 (83.60 to 84.60): VY0

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

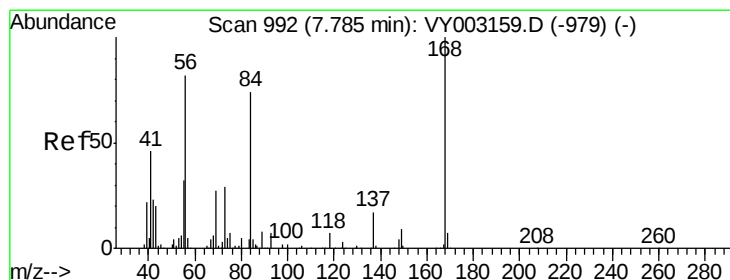
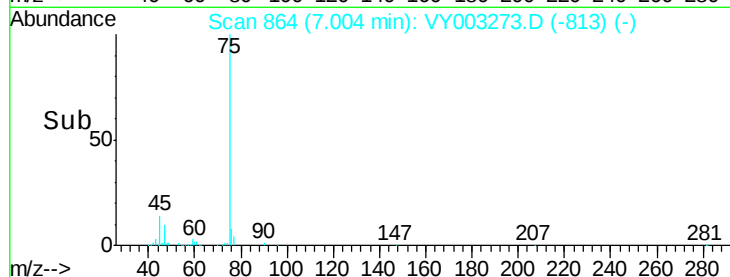
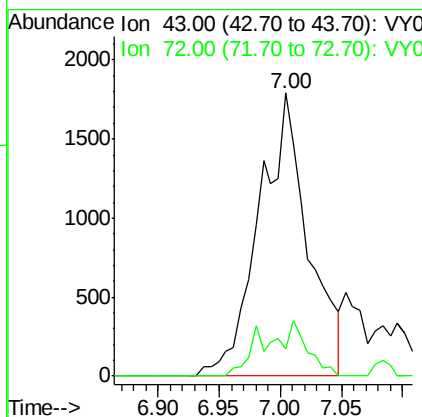
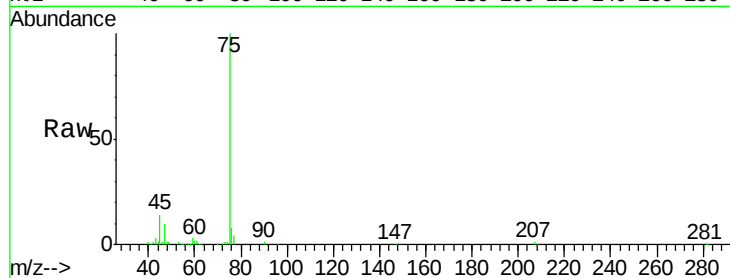




#25  
2-Butanone  
Concen: 3.817 ug/l  
RT: 7.00 min Scan# 864  
Delta R.T. 0.01 min  
Lab File: VY003273.D  
Acq: 22 Jul 2020 00:50

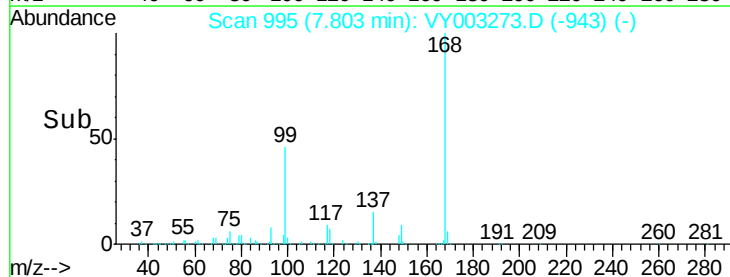
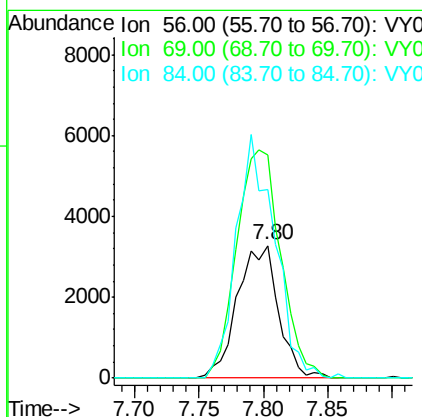
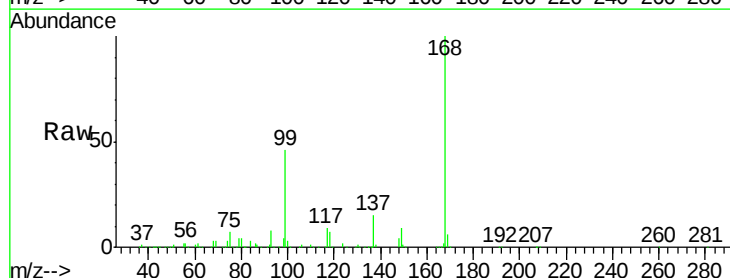
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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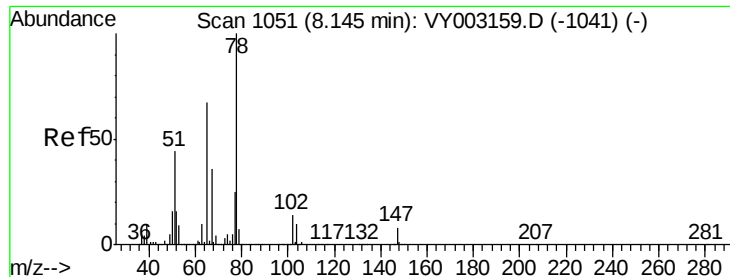
Tot Ion: 43 Resp: 4984  
Ion Ratio Lower Upper  
43 100  
72 9.9 20.9 31.3#



#31  
Cyclohexane  
Concen: 1.115 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. 0.02 min  
Lab File: VY003273.D  
Acq: 22 Jul 2020 00:50

Tgt Ion: 56 Resp: 7222  
Ion Ratio Lower Upper  
56 100  
69 168.4 26.7 40.1#  
84 142.7 72.3 108.5#

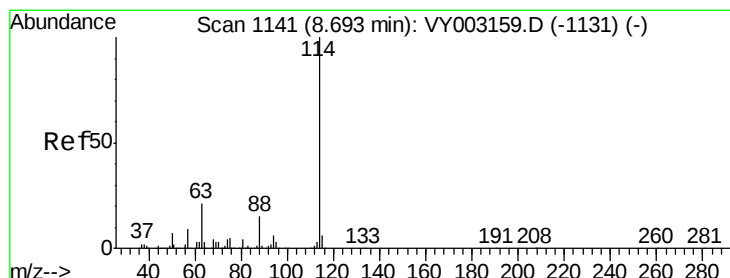
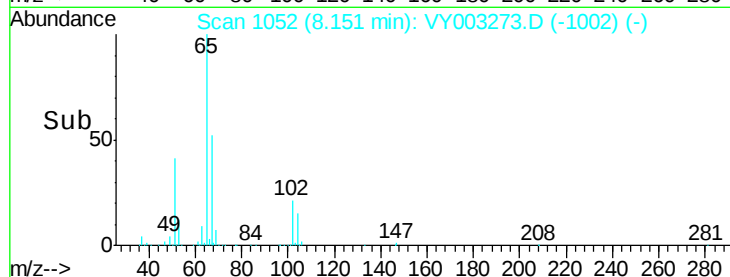
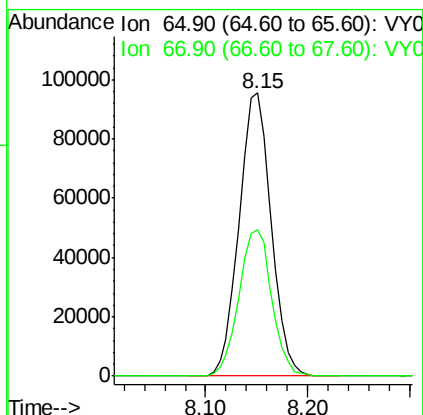
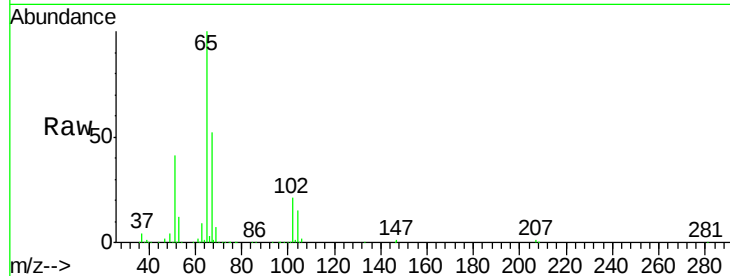




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.632 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. 0.01 min  
 Lab File: VY003273.D  
 Acq: 22 Jul 2020 00:50

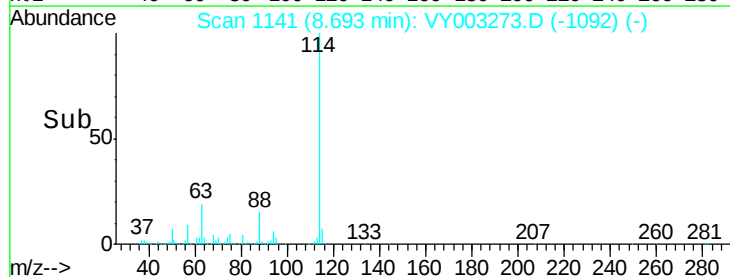
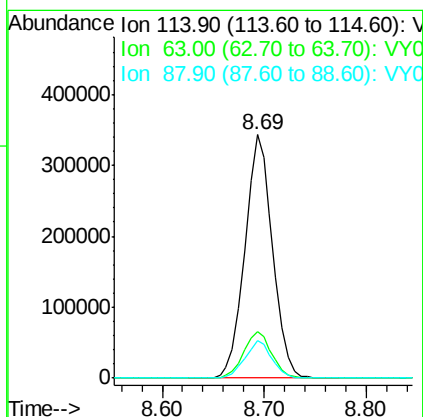
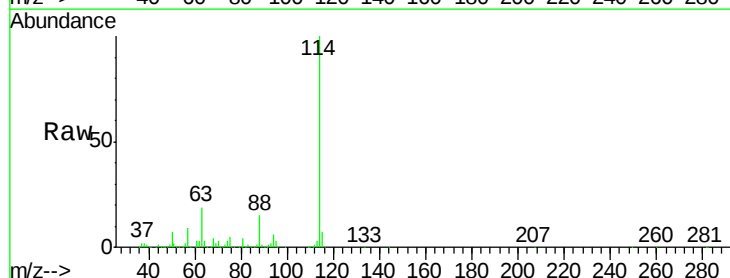
Instrument :  
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 ClientSampleId :  
 11935

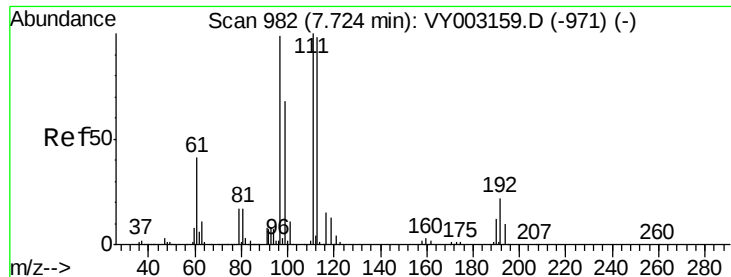
Tot Ion: 65 Resp: 208741  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.00 min  
 Lab File: VY003273.D  
 Acq: 22 Jul 2020 00:50

Tgt Ion: 114 Resp: 644730  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 41.2  
 88 15.5 0.0 30.2

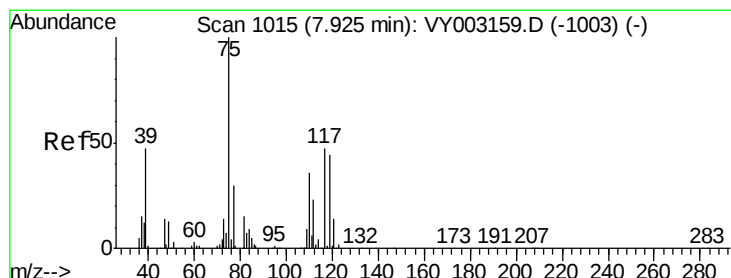
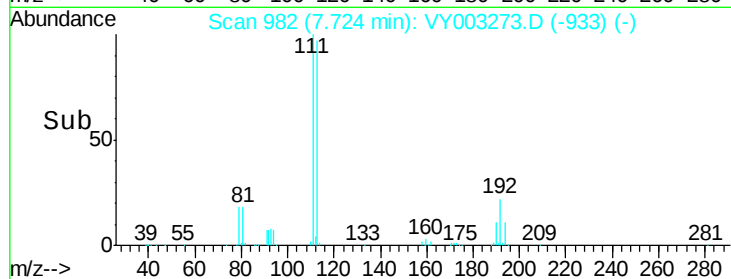
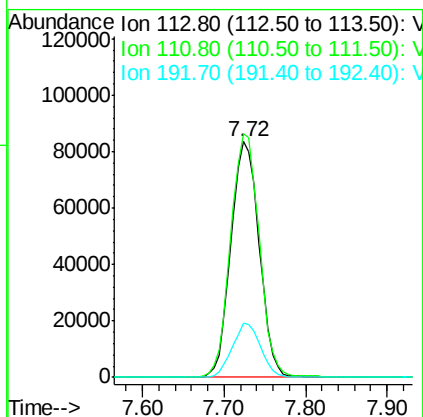
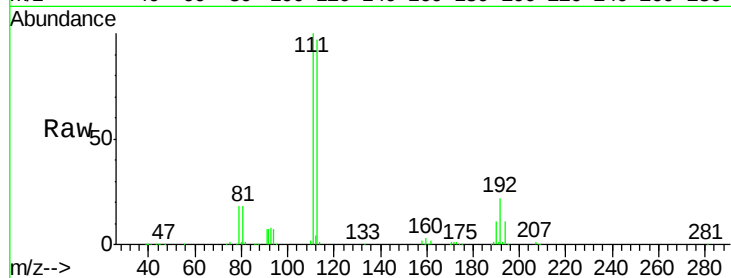




#35  
 Dibromofluoromethane  
 Concen: 53.690 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VY003273.D  
 Acq: 22 Jul 2020 00:50

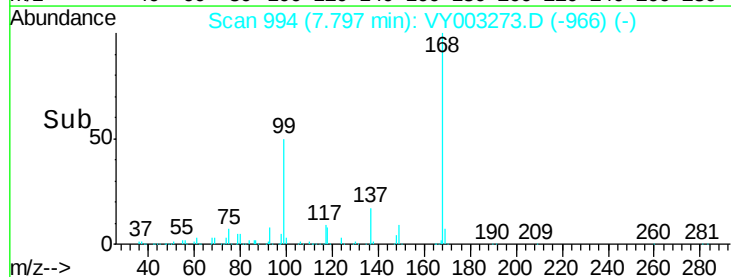
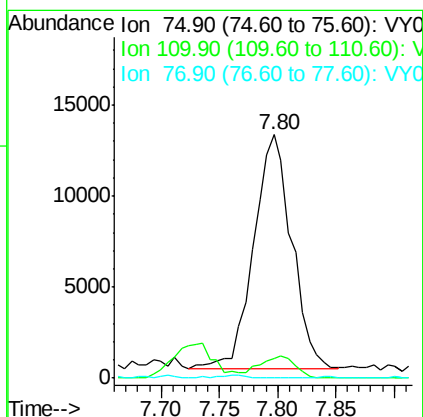
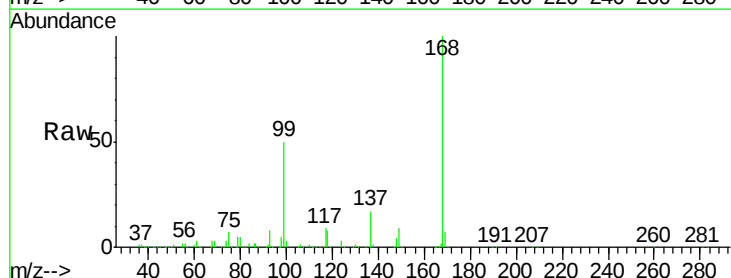
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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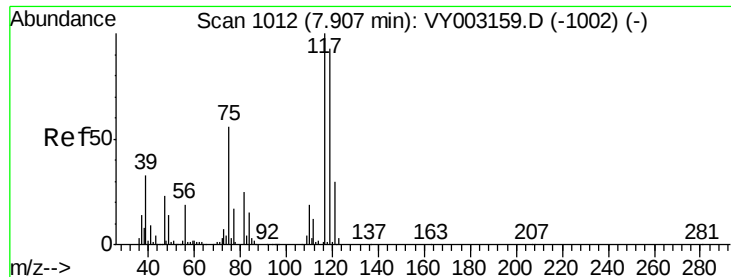
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.6 | 82.1  | 123.1 |
| 192     | 23.0  | 18.8  | 28.2  |



#36  
 1,1-Dichloropropene  
 Concen: 4.975 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY003273.D  
 Acq: 22 Jul 2020 00:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.9   | 18.1  | 54.1# |
| 77      | 0.0   | 24.8  | 37.2# |

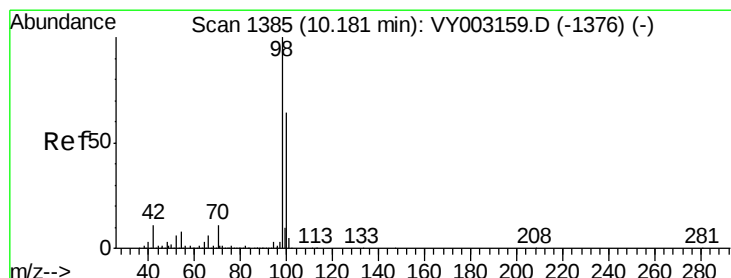
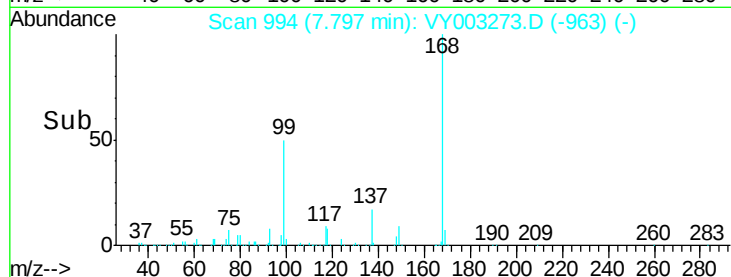
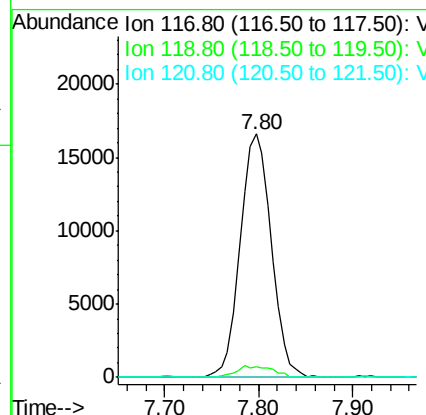
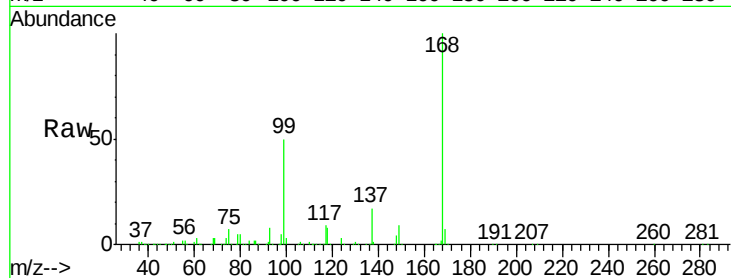




#38  
Carbon Tetrachloride  
Concen: 6.351 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.11 min  
Lab File: VY003273.D  
Acq: 22 Jul 2020 00:50

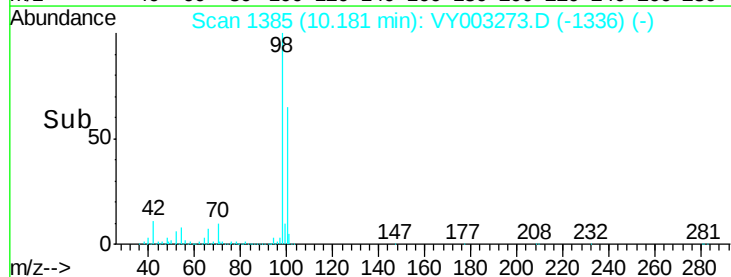
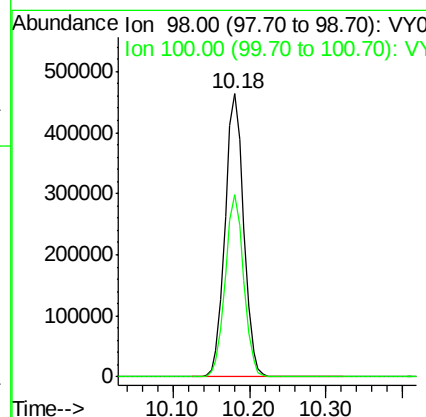
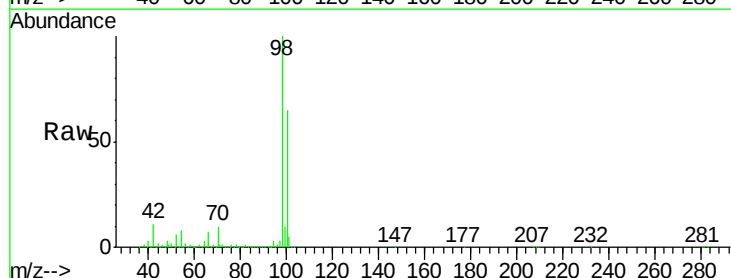
Instrument :  
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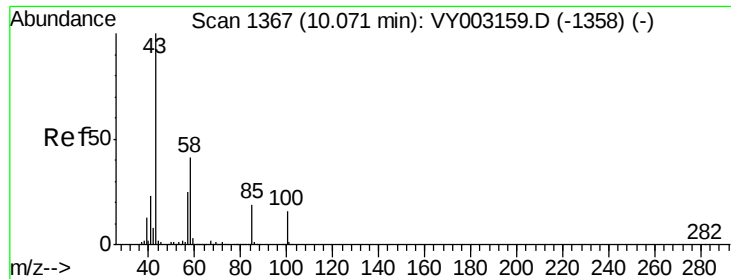
Tot Ion:117 Resp: 38312  
Ion Ratio Lower Upper  
117 100  
119 4.3 74.5 111.7#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 56.673 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VY003273.D  
Acq: 22 Jul 2020 00:50

Tgt Ion: 98 Resp: 781758  
Ion Ratio Lower Upper  
98 100  
100 63.6 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 1.055 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.11 min

Lab File: VY003273.D

Acq: 22 Jul 2020 00:50

Instrument :

MSVOA\_Y

ClientSampled :

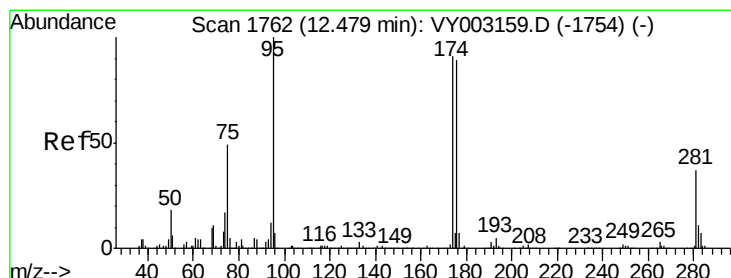
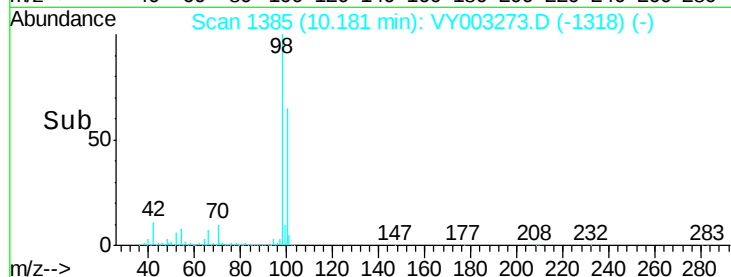
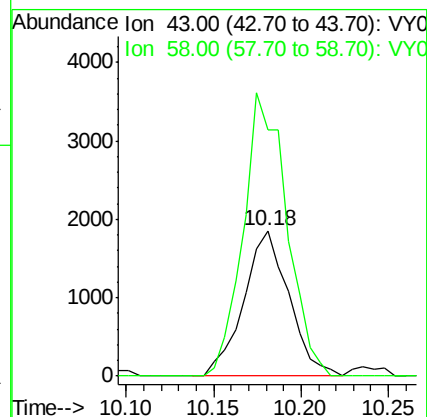
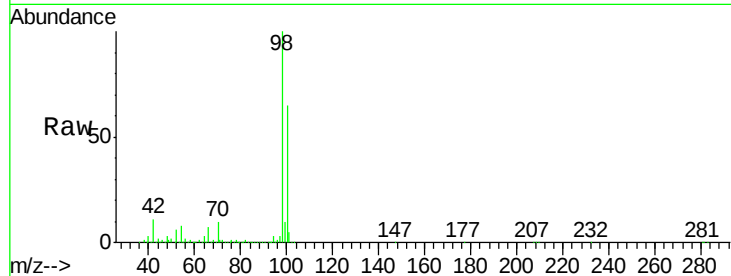
11935

Tot Ion: 43 Resp: 3340

Ion Ratio Lower Upper

43 100

58 186.7 32.7 49.1#



#62

4-Bromofluorobenzene

Concen: 49.075 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003273.D

Acq: 22 Jul 2020 00:50

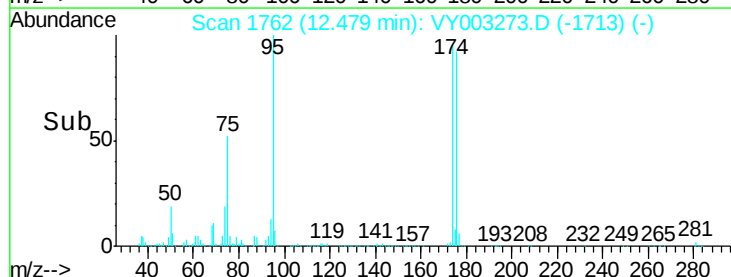
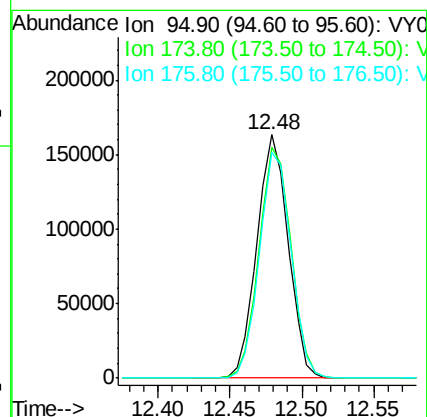
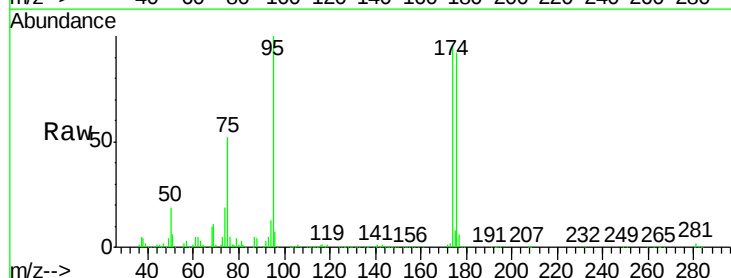
Tgt Ion: 95 Resp: 244553

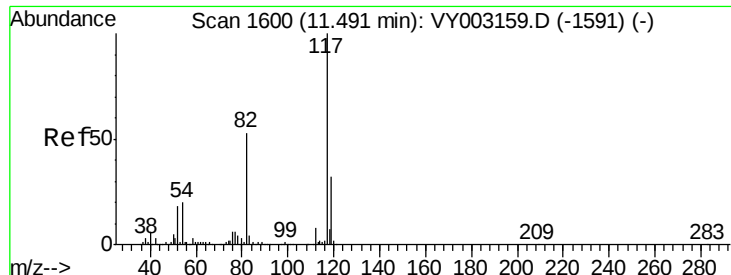
Ion Ratio Lower Upper

95 100

174 97.0 0.0 190.6

176 93.8 0.0 186.4

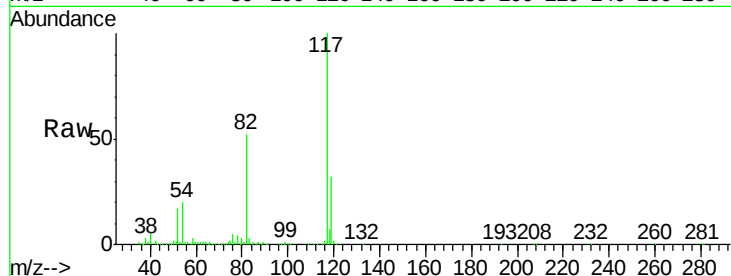




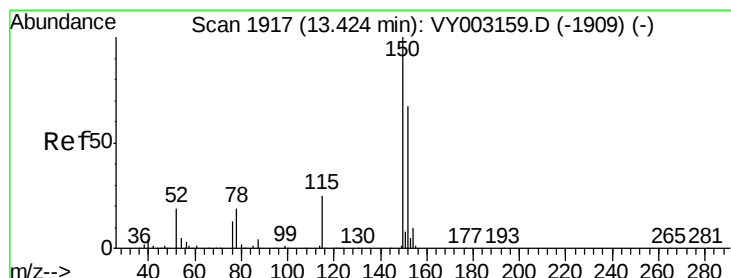
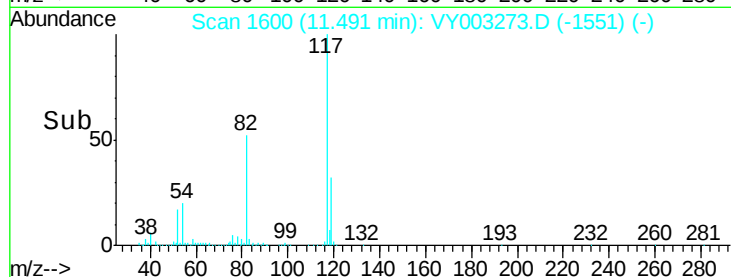
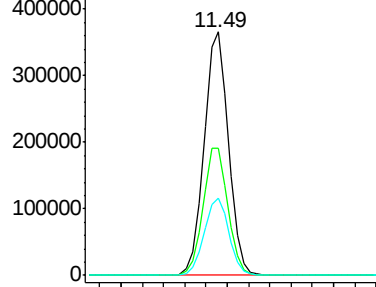
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY003273.D  
Acq: 22 Jul 2020 00:50

Instrument :  
MSVOA\_Y  
ClientSampled :  
11935

Tot Ion:117 Resp: 585329  
Ion Ratio Lower Upper  
117 100  
82 52.0 42.0 63.0  
119 31.8 25.5 38.3

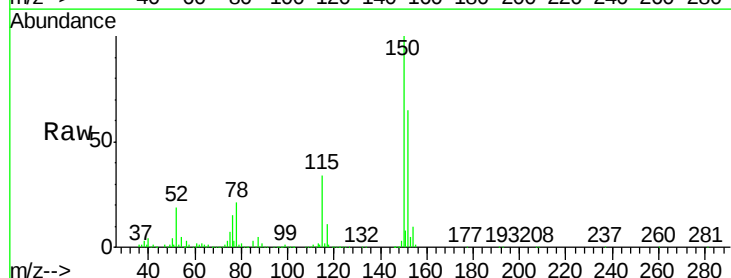


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

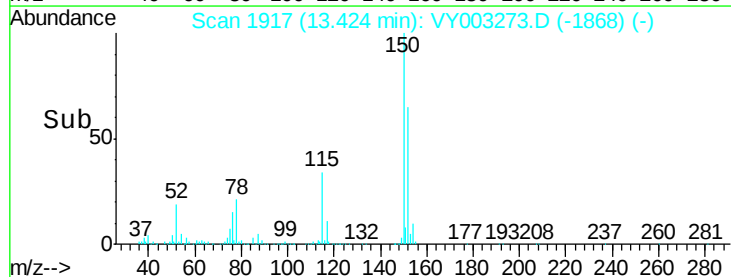
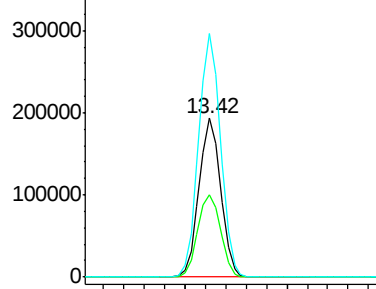


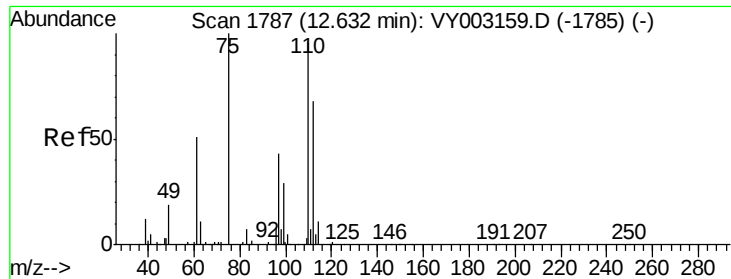
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY003273.D  
Acq: 22 Jul 2020 00:50

Tgt Ion:152 Resp: 284248  
Ion Ratio Lower Upper  
152 100  
115 54.4 26.9 80.7  
150 154.7 0.0 338.0



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: 49.891 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003273.D

Acq: 22 Jul 2020 00:50

Instrument :

MSVOA\_Y

ClientSampleId :

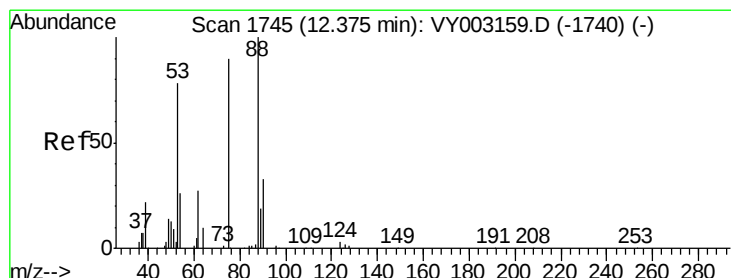
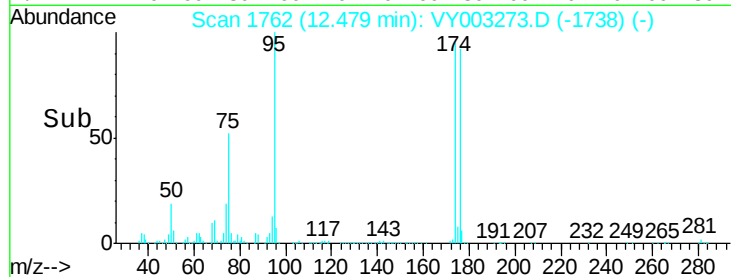
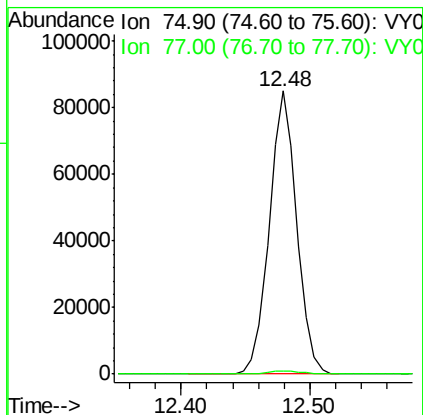
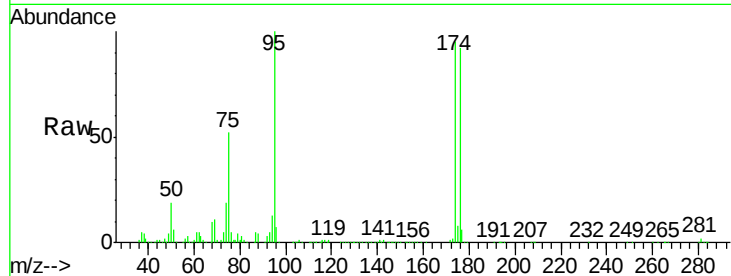
11935

Tot Ion: 75 Resp: 125529

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 97.097 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003273.D

Acq: 22 Jul 2020 00:50

Tgt Ion: 75 Resp: 125529

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 37.3 55.9#

