

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071620\  
 Data File : VY003223.D  
 Acq On : 16 Jul 2020 20:31  
 Operator : SY/MD  
 Sample : L3308-16  
 Misc : 5.03G/5ML/MSVOA Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 16

Quant Time: Jul 17 05:23:17 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  | 238641   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 365312   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 299216   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 114683   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.14  | 65   | 149313   | 74.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 148.26% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 132546   | 63.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 126.10% |          |
| 50) Toluene-d8              | 10.18 | 98   | 462380   | 59.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.32% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 128485   | 45.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.00%  |          |

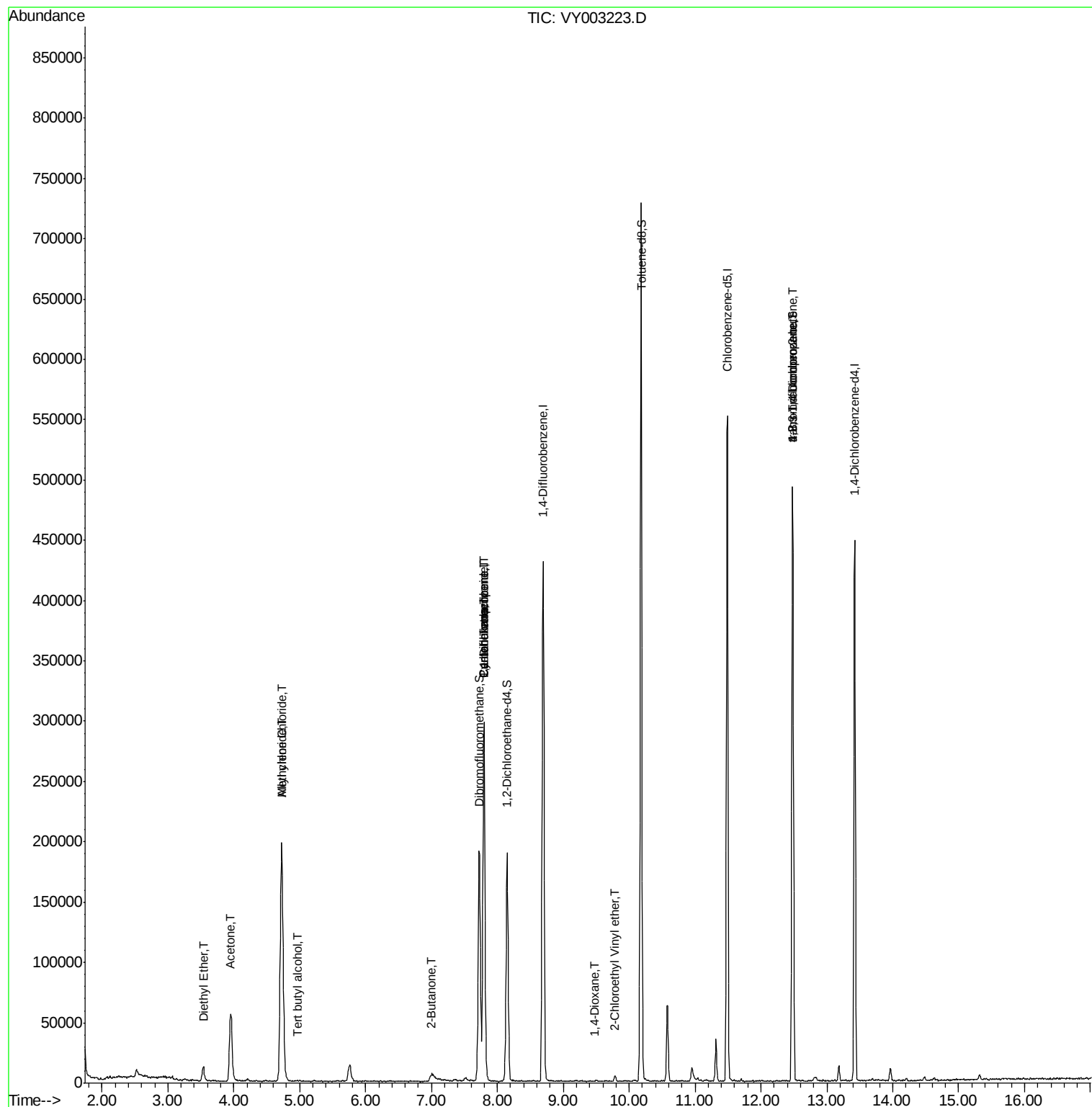
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.54  | 74   | 7061     | 6.062   | ug/l   | 98     |
| 11) Tert butyl alcohol         | 4.97  | 59   | 398      | 1.827   | ug/l # | 72     |
| 14) Allyl chloride             | 4.73  | 41   | 6286     | 2.133   | ug/l # | 22     |
| 16) Acetone                    | 3.95  | 43   | 100930   | 224.331 | ug/l   | 94     |
| 20) Methylene Chloride         | 4.72  | 84   | 148697   | 67.625  | ug/l   | 96     |
| 25) 2-Butanone                 | 7.01  | 43   | 1112     | 1.505   | ug/l # | 45     |
| 31) Cyclohexane                | 7.79  | 56   | 4936     | 1.347   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.79  | 75   | 16934    | 5.115   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 22479    | 6.577   | ug/l # | 15     |
| 49) 1,4-Dioxane                | 9.47  | 88   | 20       | 1.144   | ug/l # | 28     |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 1972     | 1.457   | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 66842    | 65.845  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 66842    | 128.147 | ug/l # | 13     |

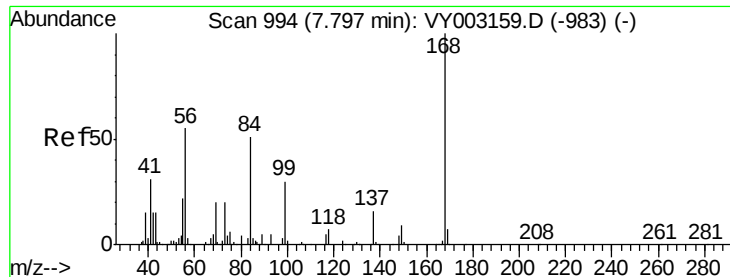
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY071620\  
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Sample : L3308-16  
Misc : 5.03G/5ML/MSVOA Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
16

Quant Time: Jul 17 05:23:17 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
Quant Title : SW846 8260  
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: VY003223.D

Acq: 16 Jul 2020 20:31

Instrument :

MSVOA\_Y

ClientSampleId :

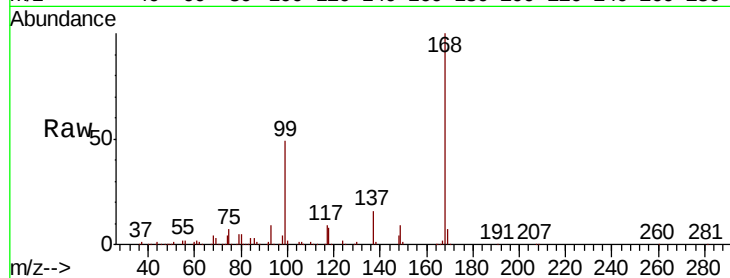
16

Tot Ion:168 Resp: 238641

Ion Ratio Lower Upper

168 100

99 49.0 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003159.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY003159.D (-983) (-)

7.80

120000

100000

80000

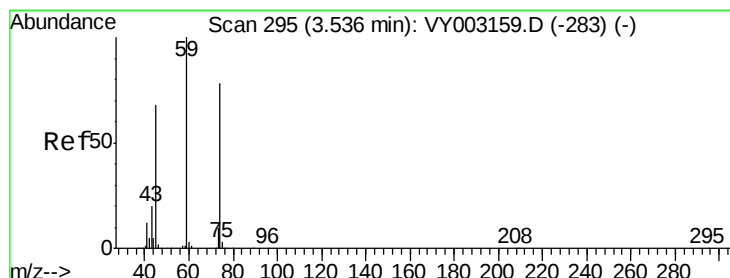
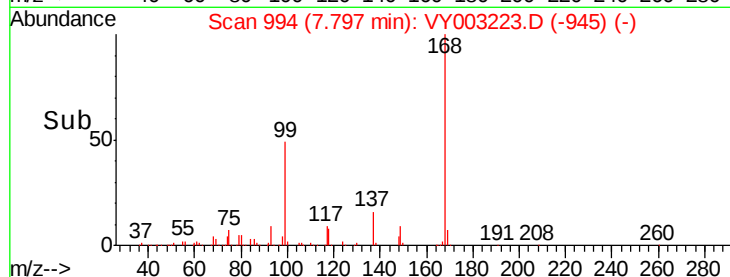
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 6.062 ug/l

RT: 3.54 min Scan# 296

Delta R.T. 0.01 min

Lab File: VY003223.D

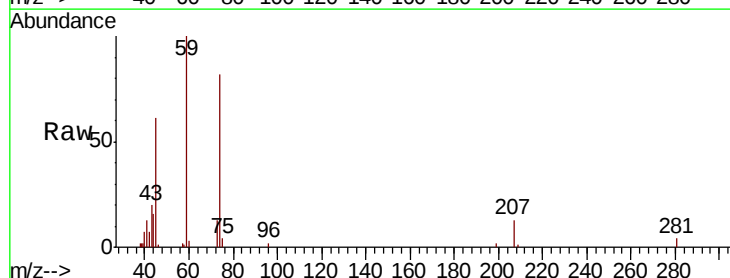
Acq: 16 Jul 2020 20:31

Tgt Ion: 74 Resp: 7061

Ion Ratio Lower Upper

74 100

45 89.1 45.3 135.8



Abundance Ion 74.00 (73.70 to 74.70): VY003159.D (-283) (-)

Ion 45.00 (44.70 to 45.70): VY003159.D (-283) (-)

3.54

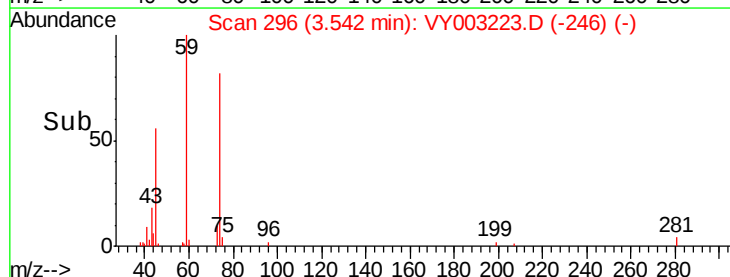
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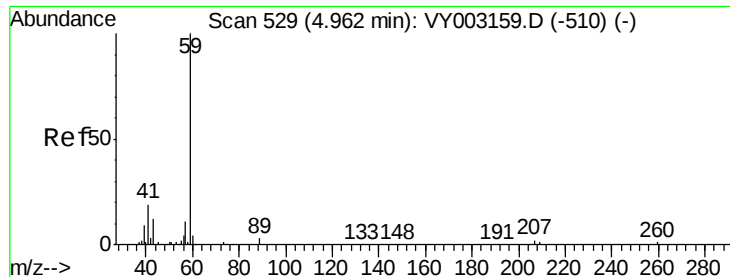
2000

1000

0

Time-->



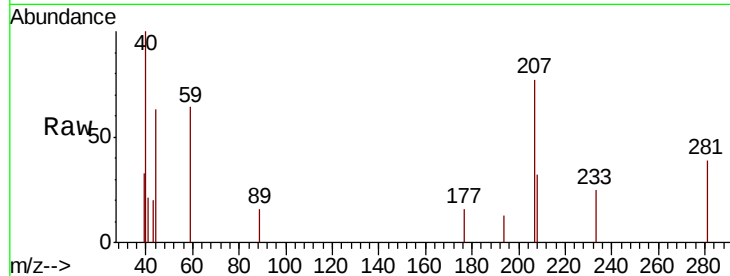


#11

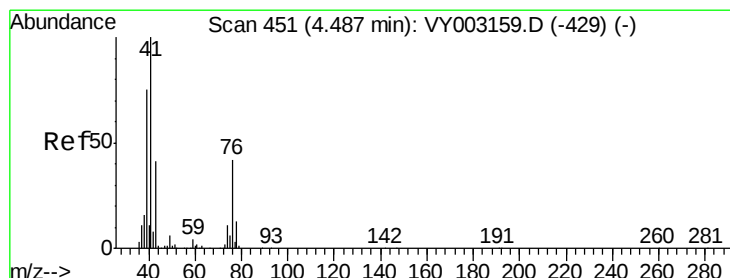
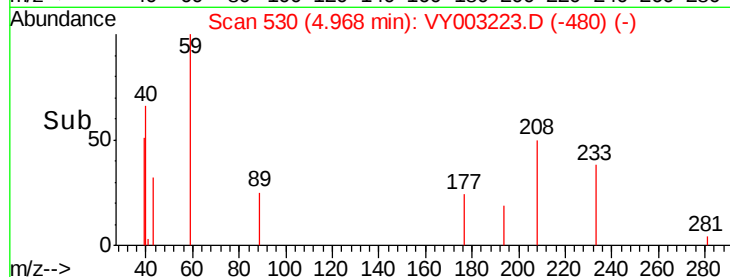
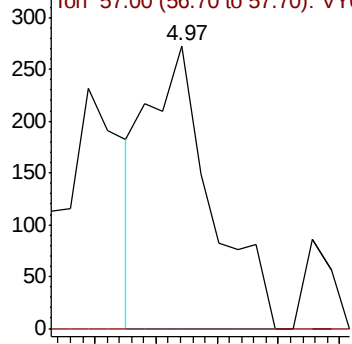
Tert butyl alcohol  
Concen: 1.827 ug/l  
RT: 4.97 min Scan# 530  
Delta R.T. 0.01 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

Instrument :  
MSVOA\_Y  
ClientSampleId :  
16

Tot Ion: 59 Resp: 398  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.4 12.6#



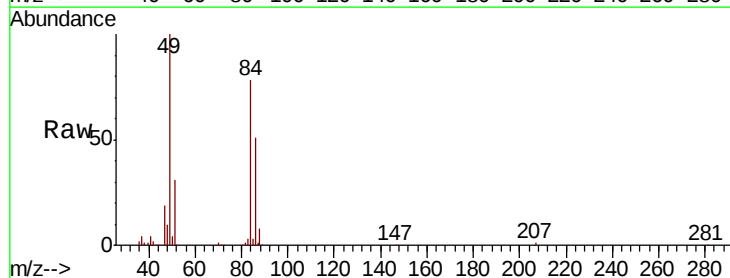
Abundance Ion 59.00 (58.70 to 59.70): VY0  
Ion 57.00 (56.70 to 57.70): VY0



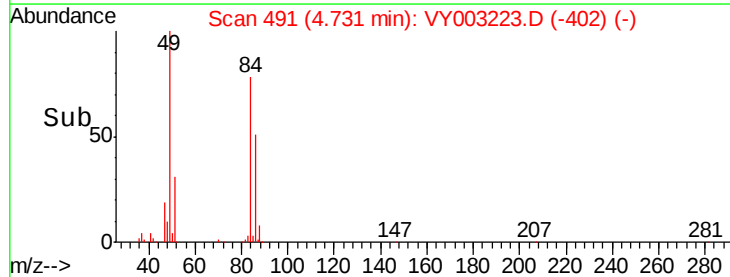
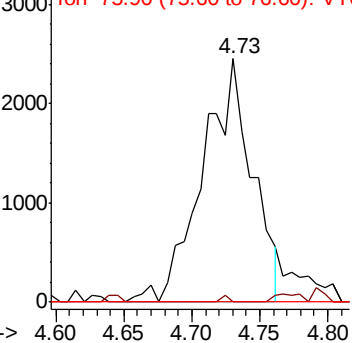
#14

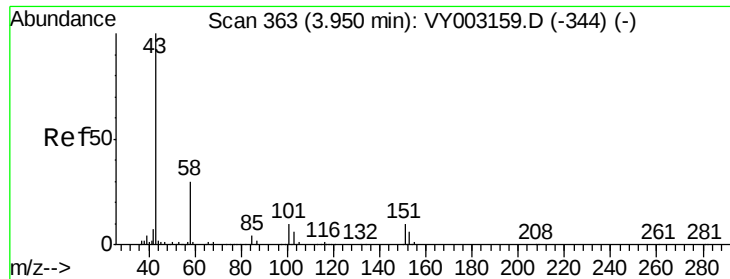
Allyl chloride  
Concen: 2.133 ug/l  
RT: 4.73 min Scan# 491  
Delta R.T. 0.24 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

Tgt Ion: 41 Resp: 6286  
Ion Ratio Lower Upper  
41 100  
39 0.4 56.6 85.0#  
76 0.0 31.6 47.4#



Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0  
Ion 75.90 (75.60 to 76.60): VY0

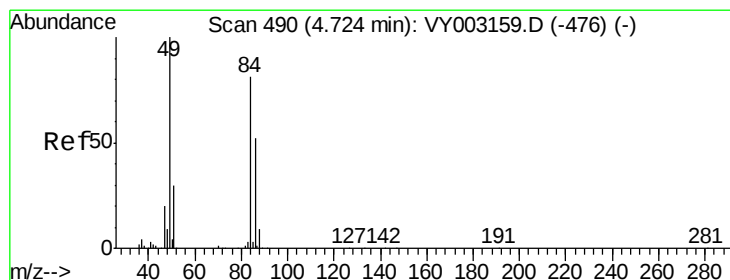
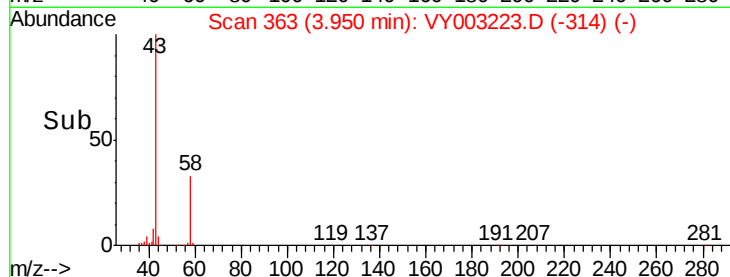
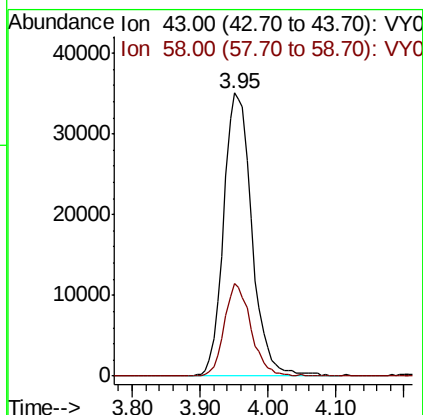
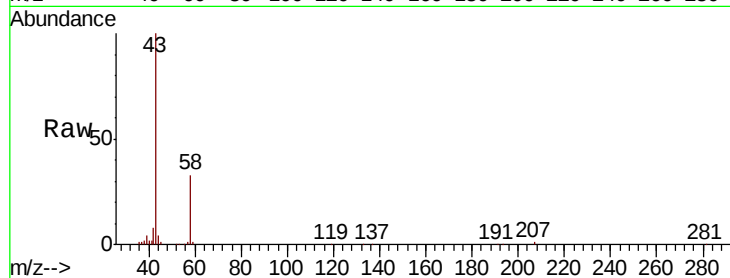




#16  
Acetone  
Concen: 224.331 ug/l  
RT: 3.95 min Scan# 363  
Delta R.T. 0.00 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

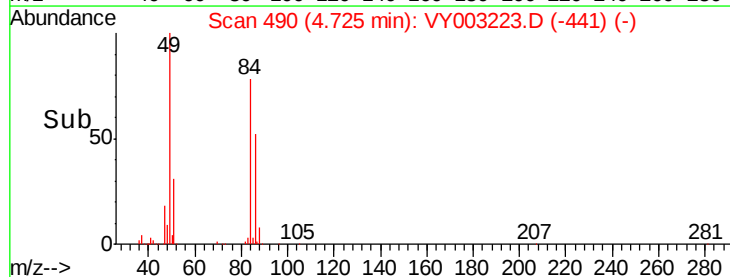
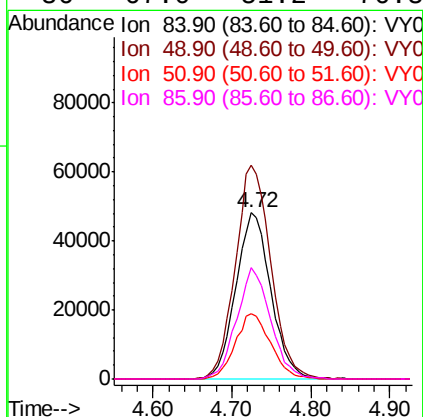
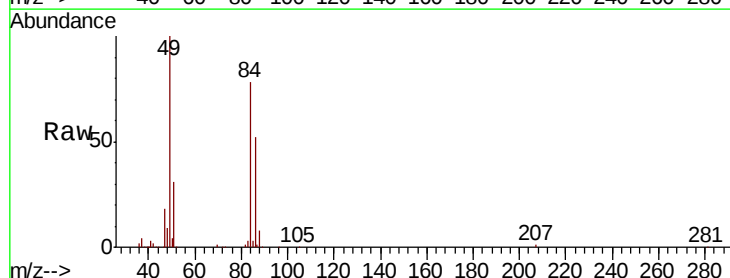
Instrument :  
MSVOA\_Y  
ClientSampleId :  
16

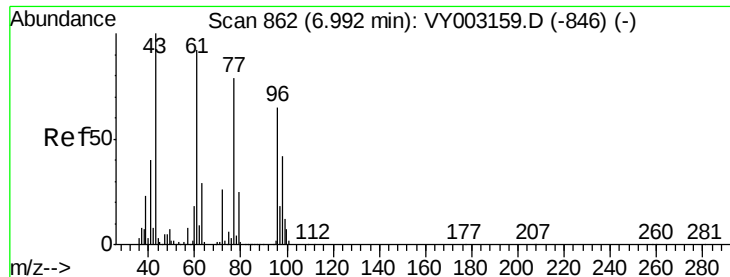
Tot Ion: 43 Resp: 100930  
Ion Ratio Lower Upper  
43 100  
58 32.9 23.8 35.6



#20  
Methylene Chloride  
Concen: 67.625 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

Tgt Ion: 84 Resp: 148697  
Ion Ratio Lower Upper  
84 100  
49 128.2 98.2 147.4  
51 39.2 29.8 44.6  
86 67.0 51.2 76.8

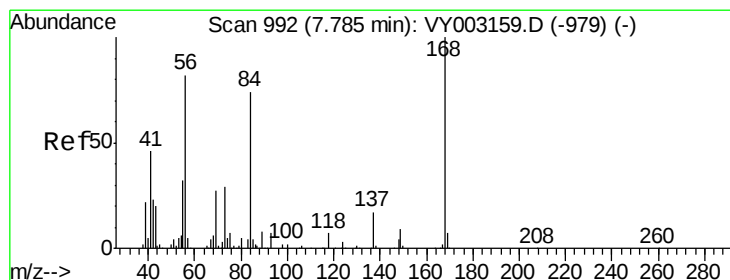
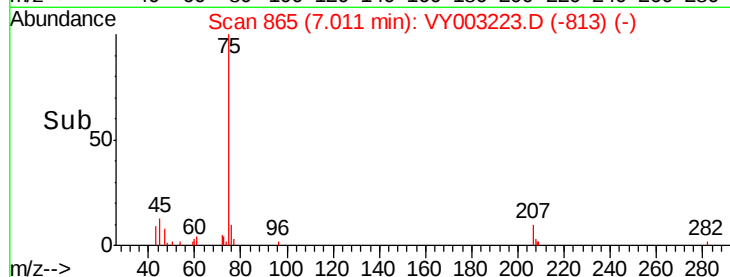
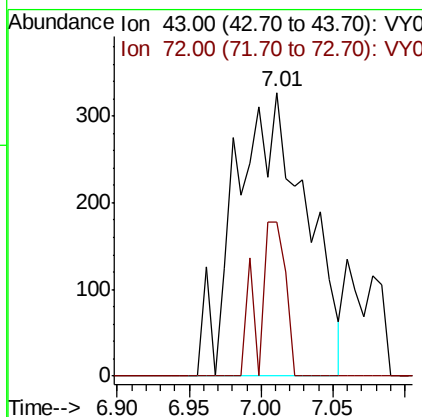
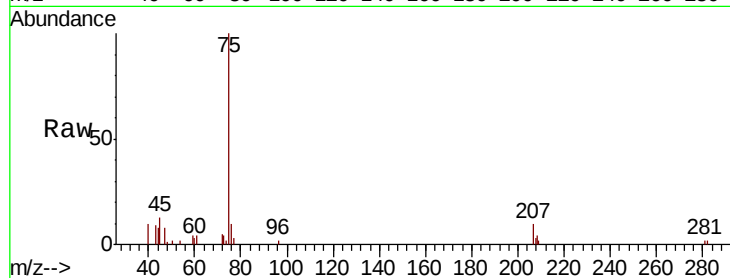




#25  
2-Butanone  
Concen: 1.505 ug/l  
RT: 7.01 min Scan# 865  
Delta R.T. 0.02 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

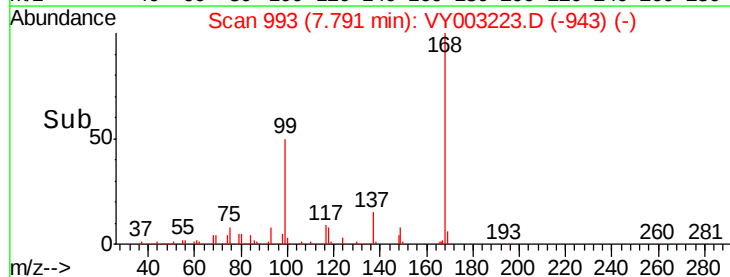
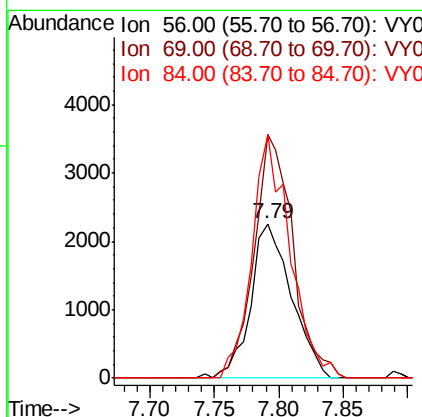
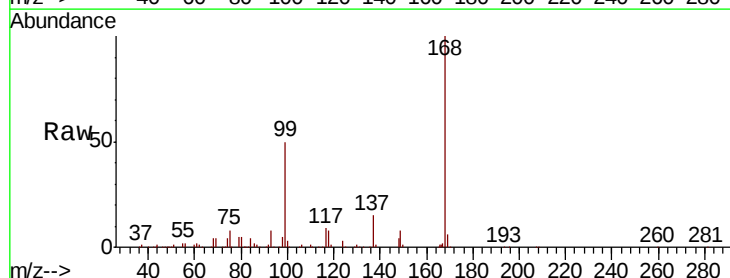
Instrument :  
MSVOA\_Y  
ClientSampleId :  
16

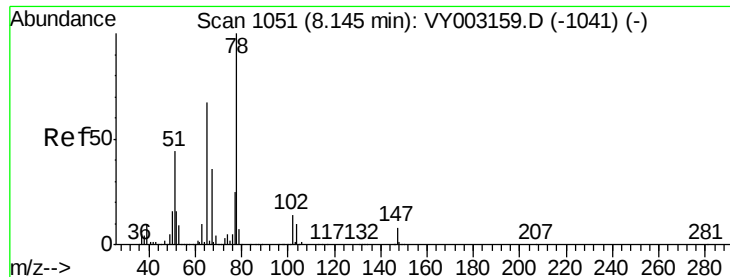
Tot Ion: 43 Resp: 1112  
Ion Ratio Lower Upper  
43 100  
72 54.4 20.9 31.3#



#31  
Cyclohexane  
Concen: 1.347 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

Tgt Ion: 56 Resp: 4936  
Ion Ratio Lower Upper  
56 100  
69 157.9 26.7 40.1#  
84 158.1 72.3 108.5#

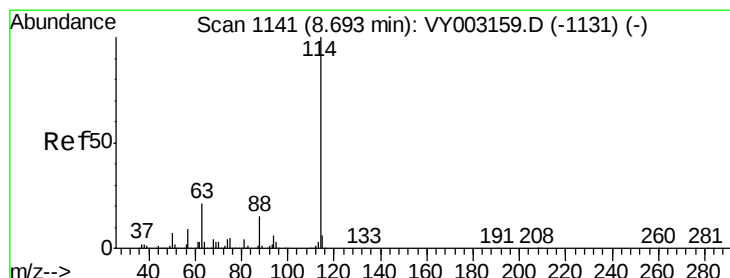
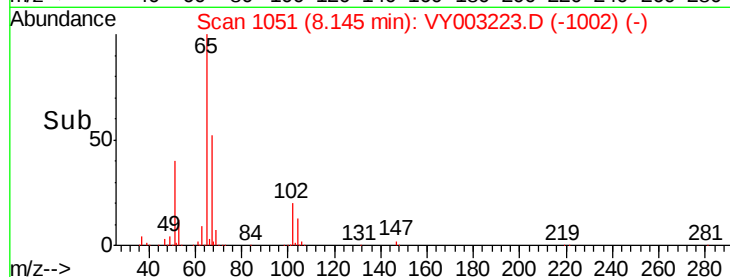
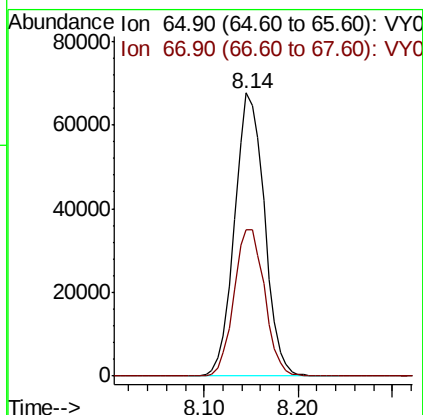
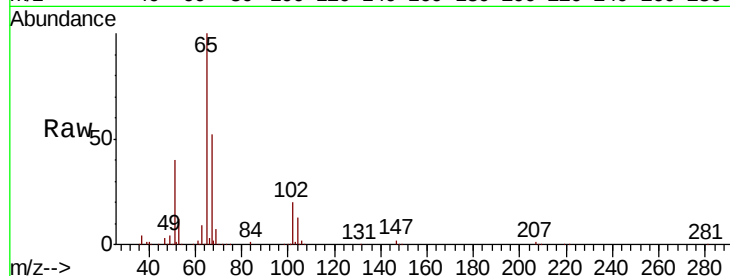




#33  
 1,2-Dichloroethane-d4  
 Concen: 74.130 ug/l  
 RT: 8.14 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VY003223.D  
 Acq: 16 Jul 2020 20:31

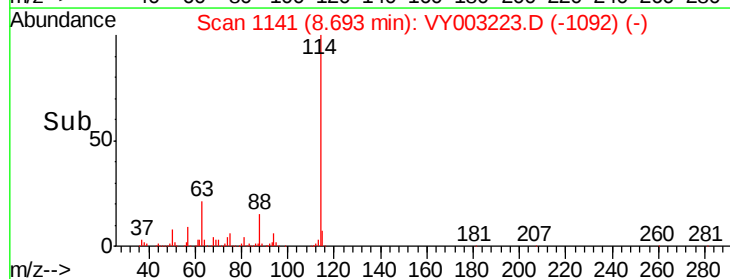
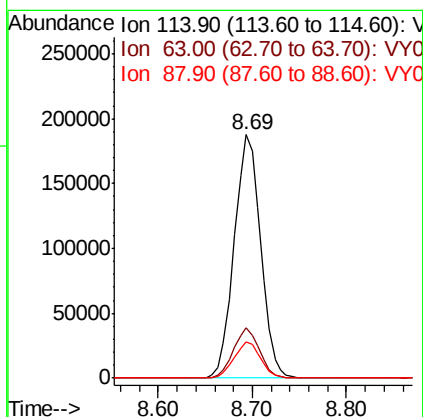
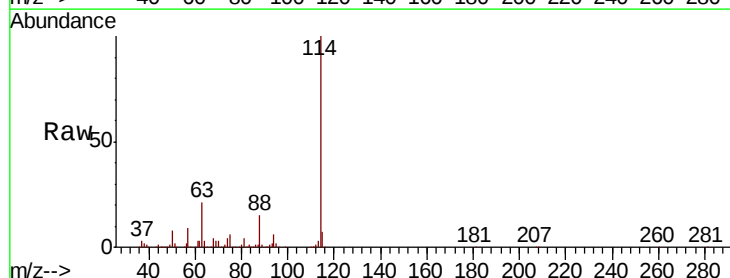
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 16

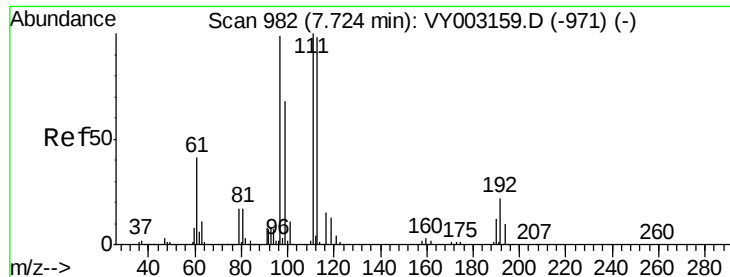
Tot Ion: 65 Resp: 149313  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. 0.00 min  
 Lab File: VY003223.D  
 Acq: 16 Jul 2020 20:31

Tgt Ion: 114 Resp: 365312  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 41.2  
 88 15.0 0.0 30.2

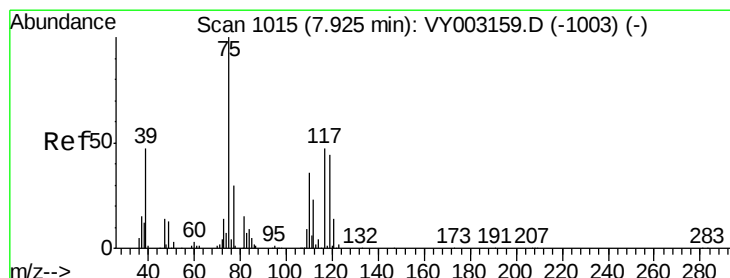
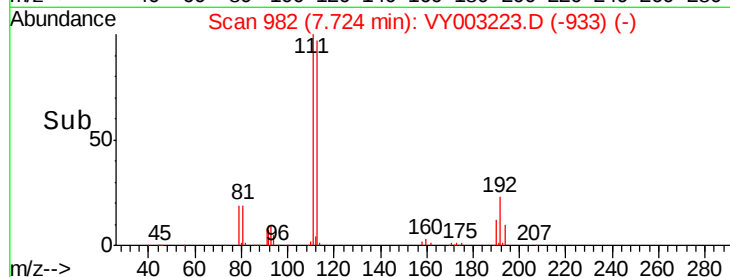
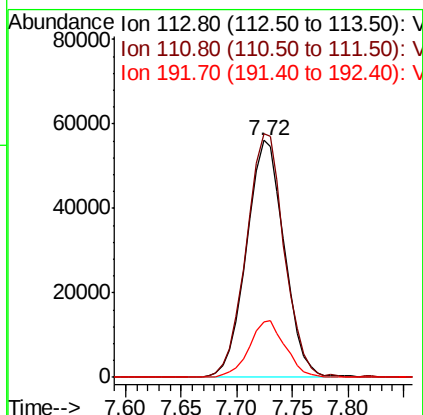
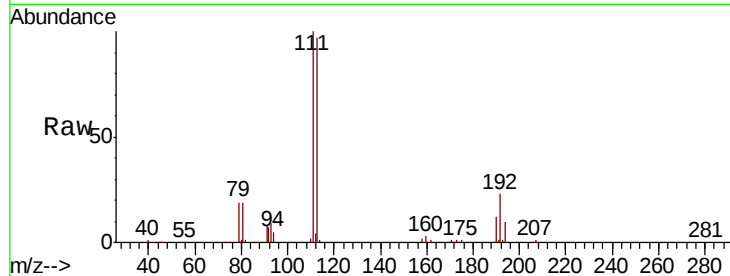




#35  
 Dibromofluoromethane  
 Concen: 63.049 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VY003223.D  
 Acq: 16 Jul 2020 20:31

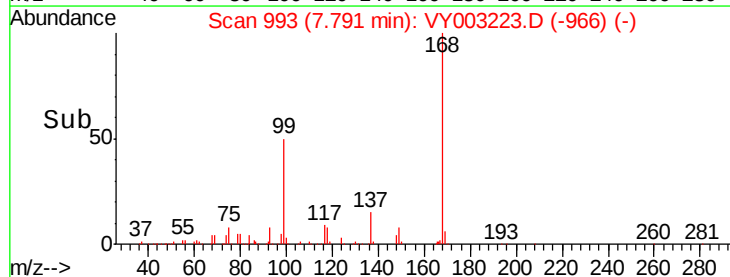
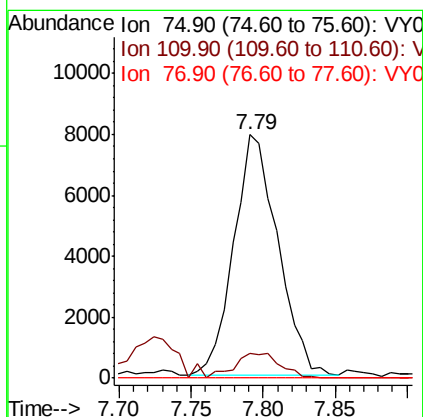
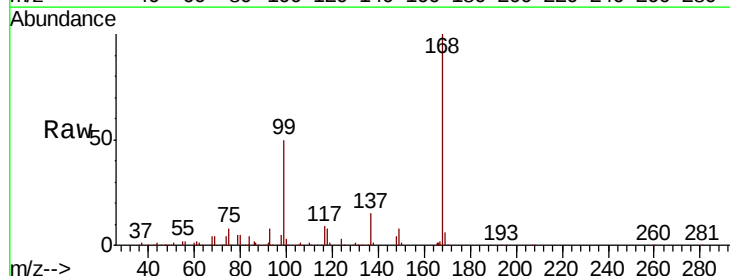
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 16

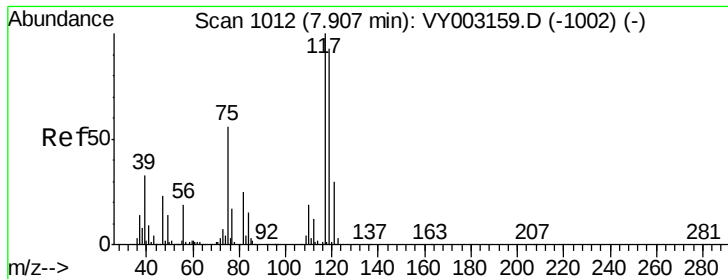
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 82.1  | 123.1 |
| 192     | 22.9  | 18.8  | 28.2  |



#36  
 1,1-Dichloropropene  
 Concen: 5.115 ug/l  
 RT: 7.79 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VY003223.D  
 Acq: 16 Jul 2020 20:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.7   | 18.1  | 54.1# |
| 77      | 0.0   | 24.8  | 37.2# |





#38

Carbon Tetrachloride

Concen: 6.577 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003223.D

Acq: 16 Jul 2020 20:31

Instrument :

MSVOA\_Y

ClientSampled :

16

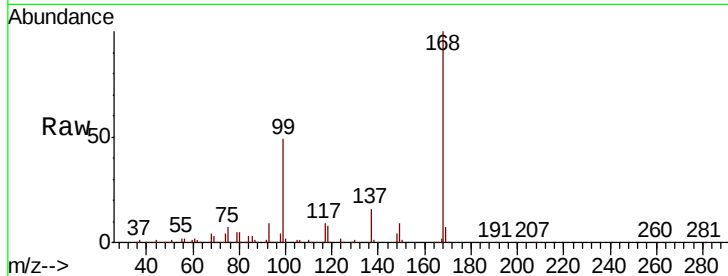
Tot Ion:117 Resp: 22479

Ion Ratio Lower Upper

117 100

119 2.9 74.5 111.7#

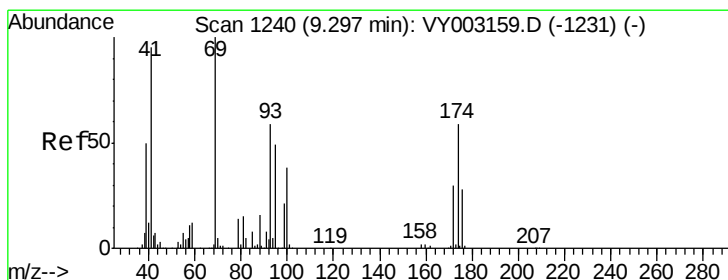
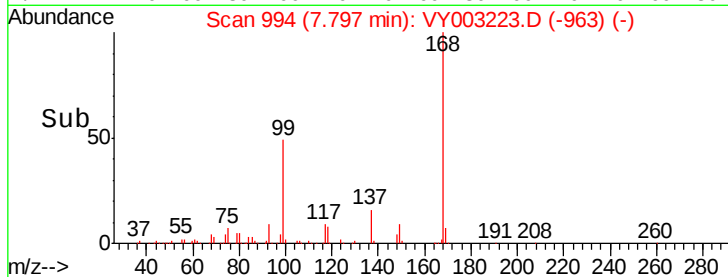
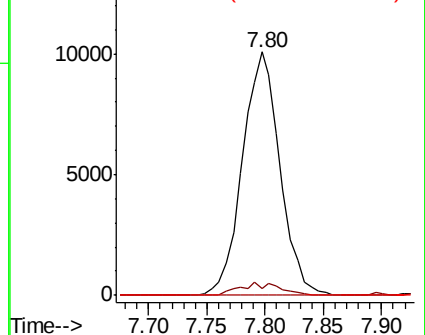
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 1.144 ug/l

RT: 9.47 min Scan# 1269

Delta R.T. 0.18 min

Lab File: VY003223.D

Acq: 16 Jul 2020 20:31

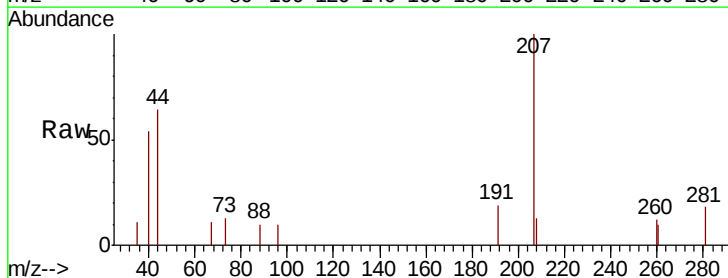
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 0.0 25.6 38.4#

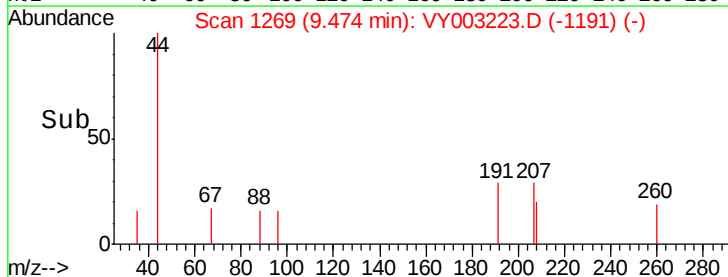
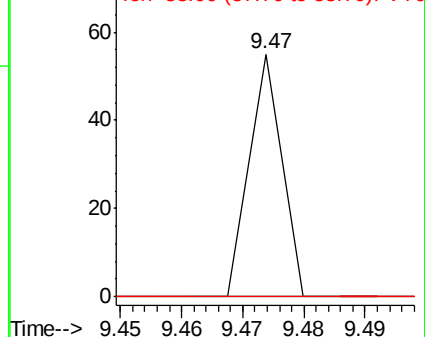
58 0.0 47.8 71.6#

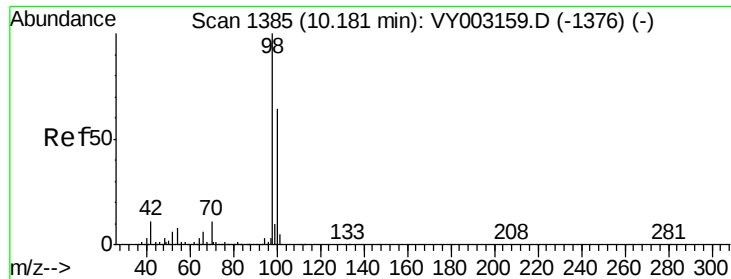


Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

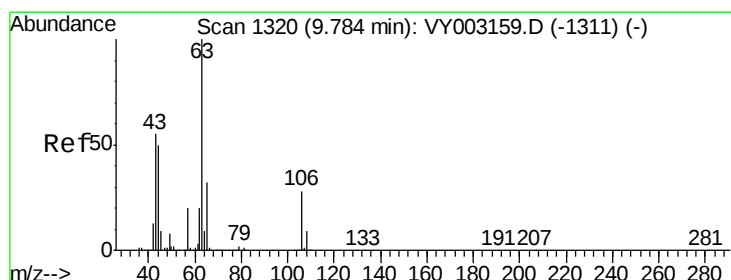
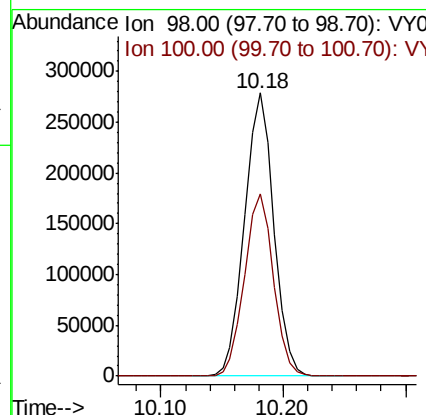
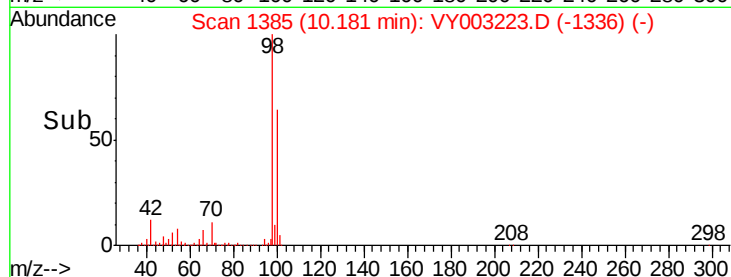
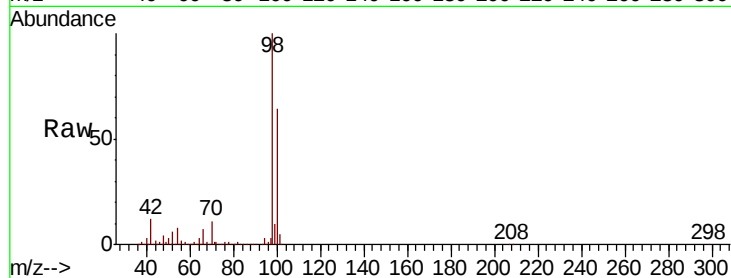




#50  
Toluene-d8  
Concen: 59.159 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

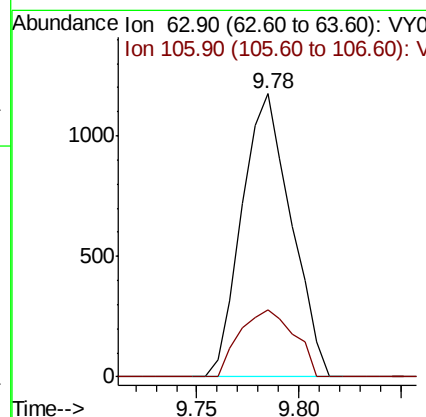
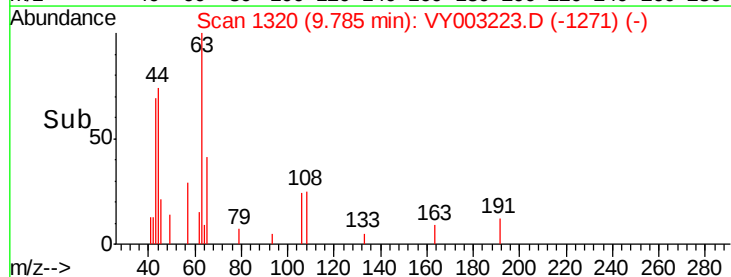
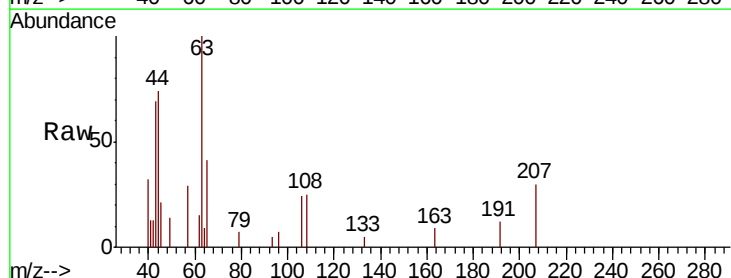
Instrument :  
MSVOA\_Y  
ClientSampled :  
16

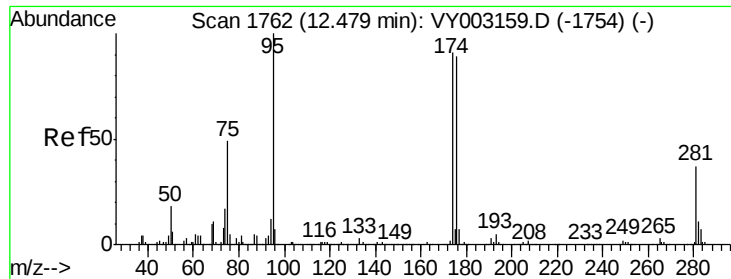
Tot Ion: 98 Resp: 462380  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.7 76.1



#58  
2-Chloroethyl Vinyl ether  
Concen: 1.457 ug/l  
RT: 9.78 min Scan# 1320  
Delta R.T. 0.00 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

Tgt Ion: 63 Resp: 1972  
Ion Ratio Lower Upper  
63 100  
106 26.3 22.9 34.3

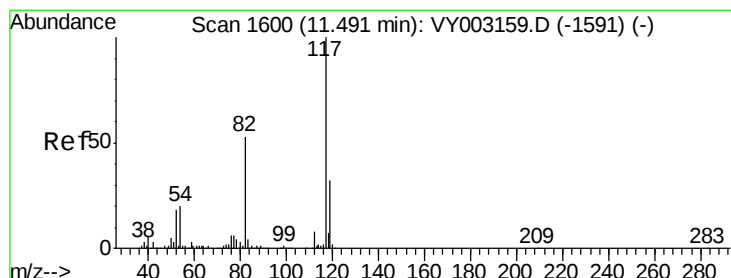
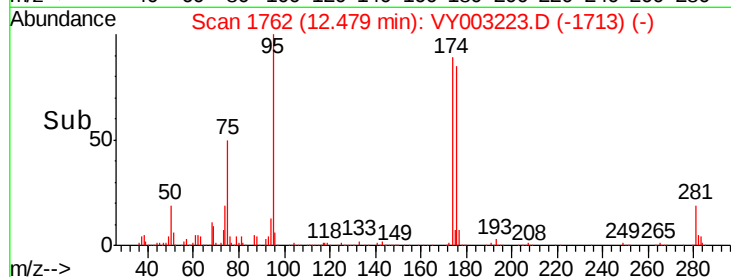
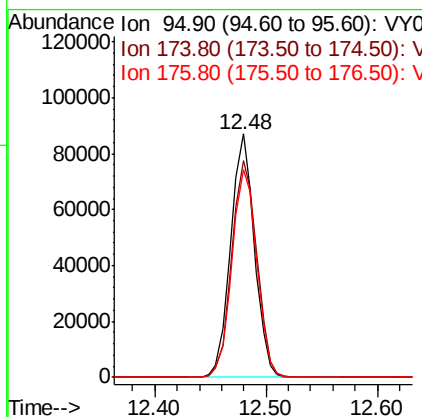
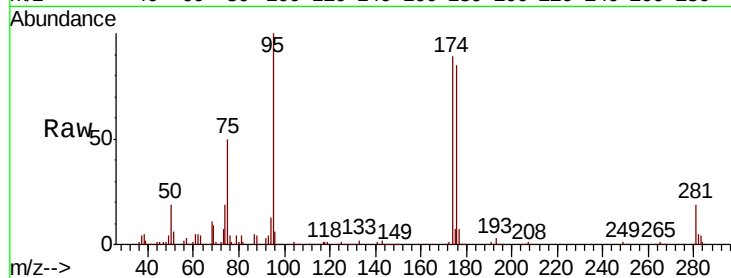




#62  
4-Bromofluorobenzene  
Concen: 45.504 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. 0.00 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

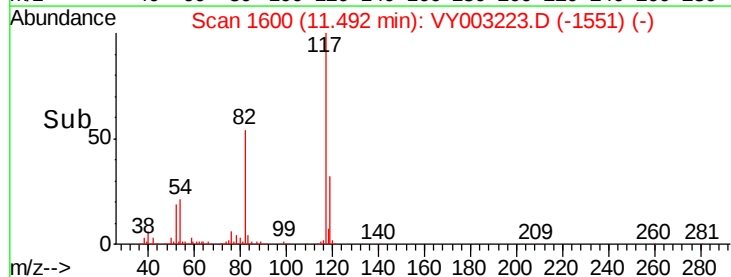
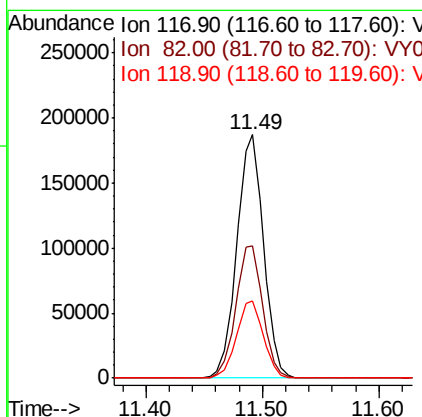
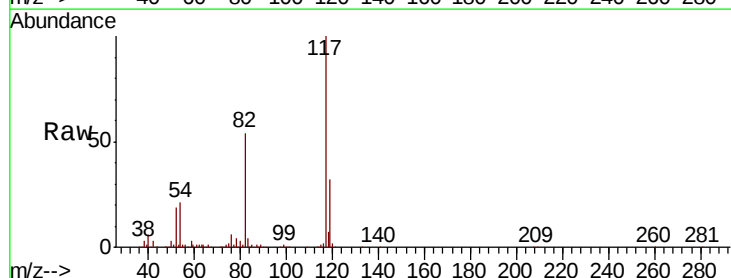
Instrument :  
MSVOA\_Y  
ClientSampleId :  
16

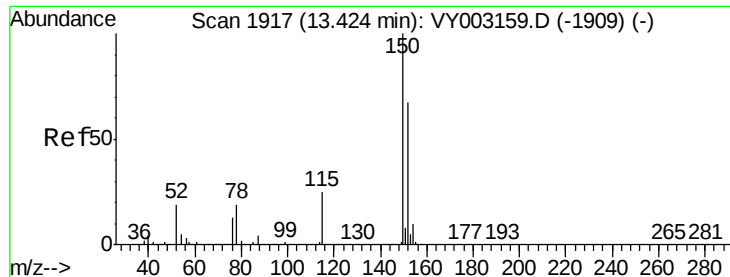
| Tot Ion   | 95    | Resp  | 128485 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 93.7  | 0.0   | 190.6  |
| 176       | 89.7  | 0.0   | 186.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

| Tgt Ion   | 117   | Resp  | 299216 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 54.3  | 42.0  | 63.0   |
| 119       | 31.9  | 25.5  | 38.3   |



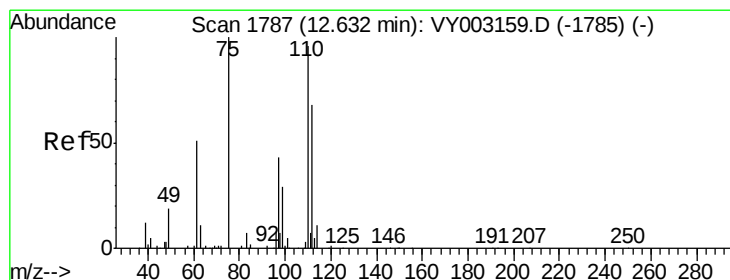
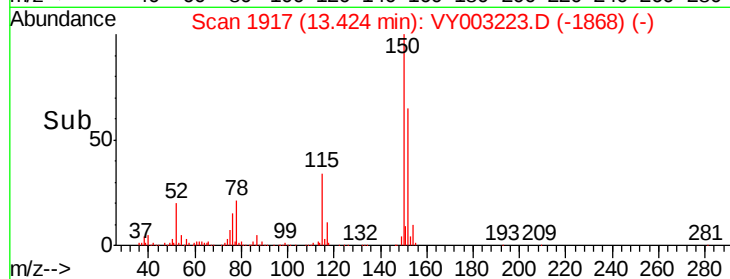
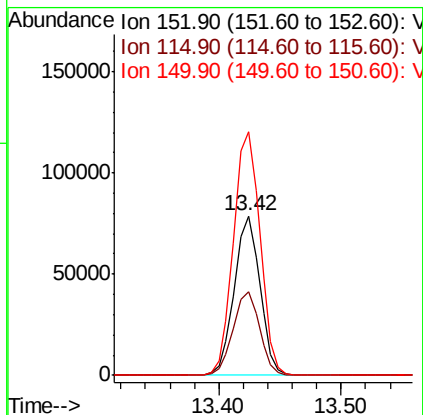
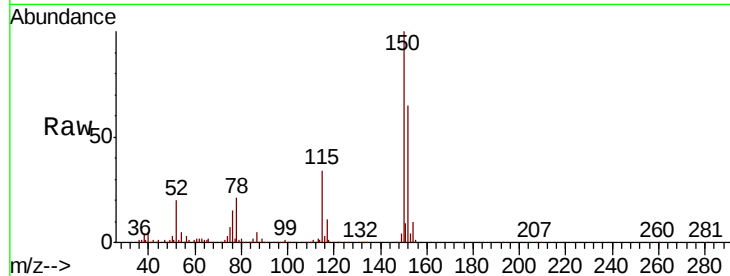


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

Instrument :  
MSVOA\_Y  
ClientSampleId :  
16

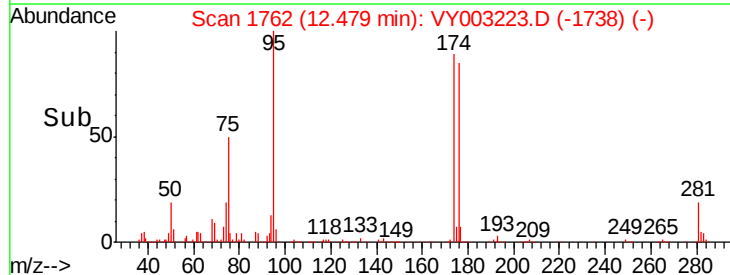
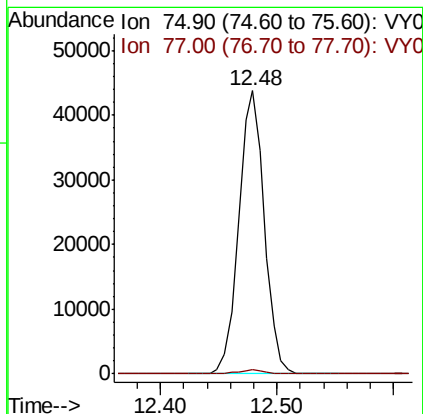
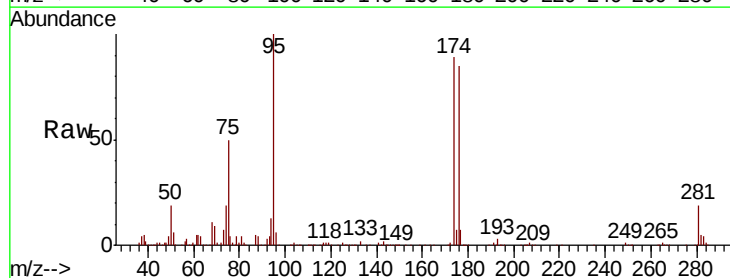
Tot Ion:152 Resp: 114683  
Ion Ratio Lower Upper  
152 100  
115 53.7 26.9 80.7  
150 157.5 0.0 338.0

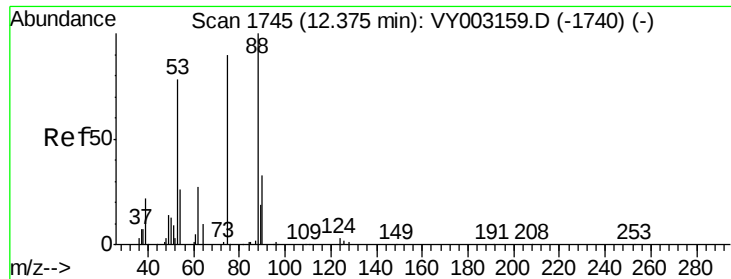


#76

1,2,3-Trichloropropane  
Concen: 65.845 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY003223.D  
Acq: 16 Jul 2020 20:31

Tgt Ion: 75 Resp: 66842  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 128.147 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003223.D

Acq: 16 Jul 2020 20:31

Instrument :

MSVOA\_Y

ClientSampleId :

16

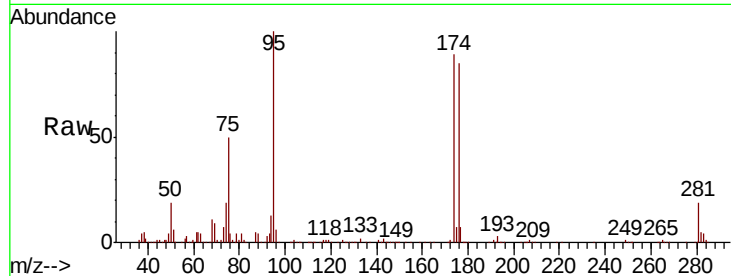
Tot Ion: 75 Resp: 66842

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 37.3 55.9#



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

