

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071620\  
 Data File : VY003224.D  
 Acq On : 16 Jul 2020 20:54  
 Operator : SY/MD  
 Sample : L3308-17  
 Misc : 5.07G/5ML/MSVOA Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 17RE

Quant Time: Jul 17 05:23:28 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  | 254149   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 383154   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 332058   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 136871   | 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   | 139134   | 64.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 129.72% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 133478   | 60.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 121.08% |          |
| 50) Toluene-d8              | 10.18 | 98   | 481754   | 58.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.54% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 142034   | 47.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.92%  |          |

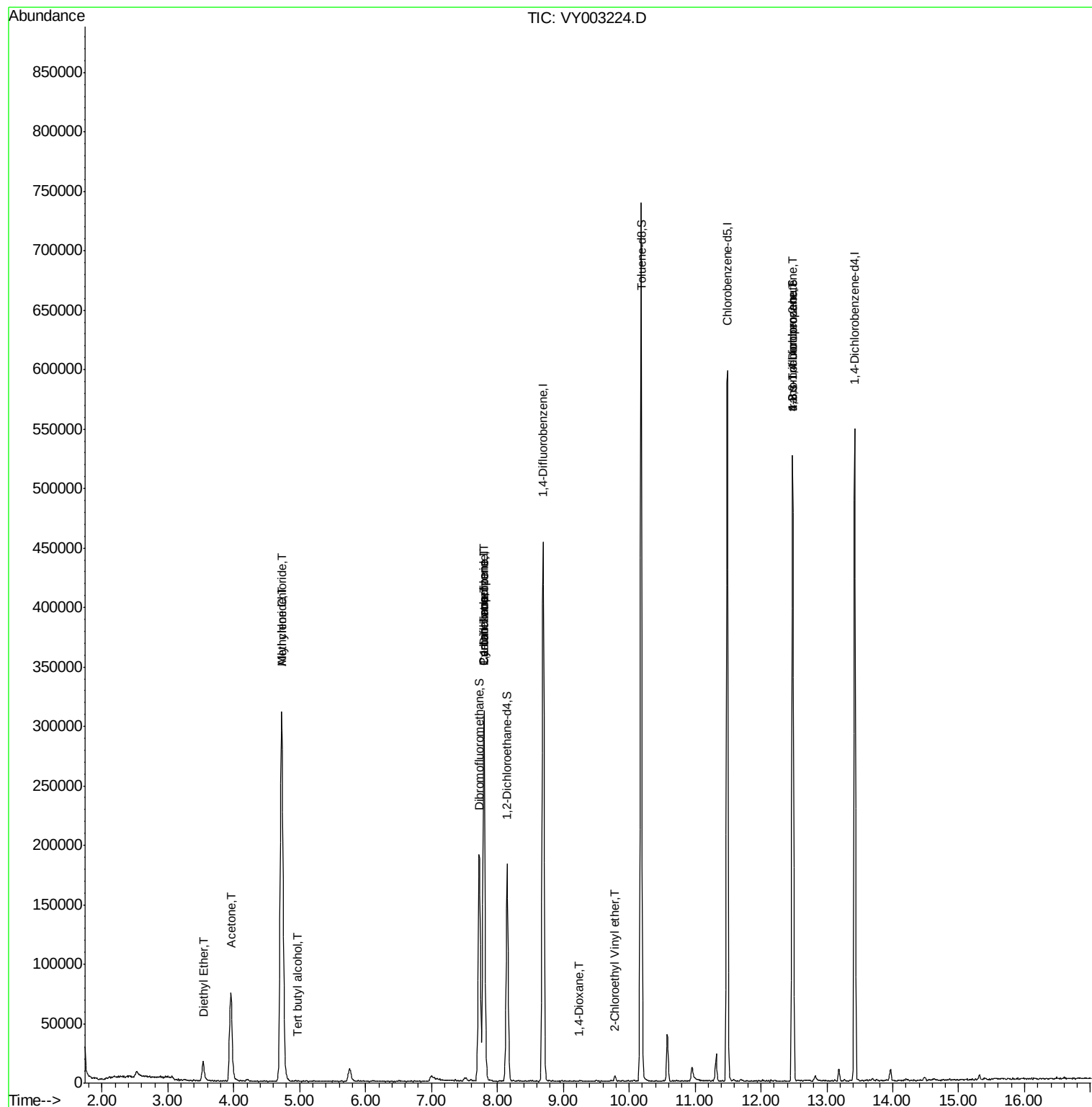
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.53  | 74   | 9003     | 7.257   | ug/l   | 88     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 525      | 2.263   | ug/l # | 82     |
| 14) Allyl chloride             | 4.72  | 41   | 9973     | 3.178   | ug/l # | 22     |
| 16) Acetone                    | 3.96  | 43   | 128533   | 268.250 | ug/l   | 97     |
| 20) Methylene Chloride         | 4.72  | 84   | 239484   | 105.430 | ug/l   | 97     |
| 31) Cyclohexane                | 7.80  | 56   | 4442     | 1.138   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 18238    | 5.252   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 23443    | 6.539   | ug/l # | 18     |
| 49) 1,4-Dioxane                | 9.23  | 88   | 45       | 2.454   | ug/l # | 28     |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 1939     | 1.366   | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 73349    | 60.542  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 73349    | 117.826 | ug/l # | 13     |

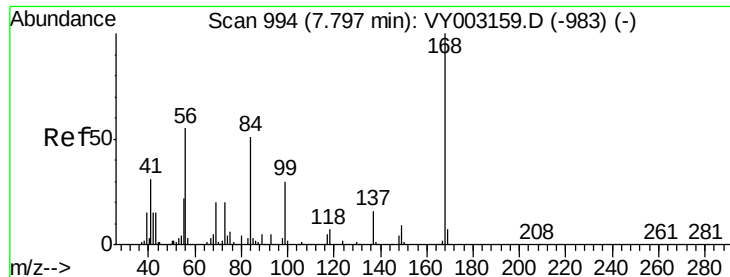
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY071620\  
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Sample : L3308-17  
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Instrument :  
MSVOA\_Y  
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17RE

Quant Time: Jul 17 05:23:28 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: VY003224.D

Acq: 16 Jul 2020 20:54

Instrument :

MSVOA\_Y

ClientSampleId :

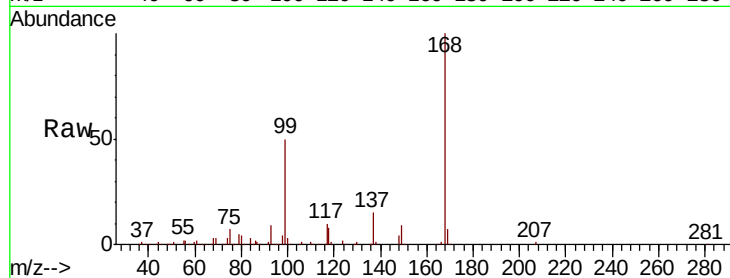
17RE

Tot Ion:168 Resp: 254149

Ion Ratio Lower Upper

168 100

99 49.5 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) (-)

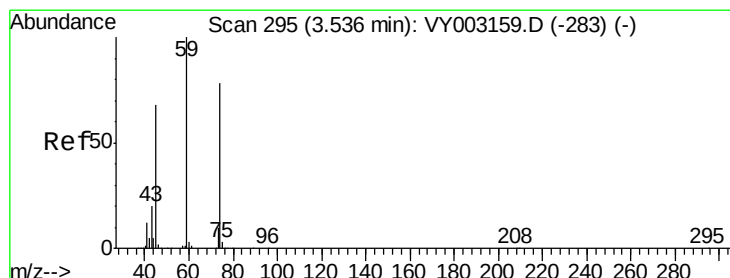
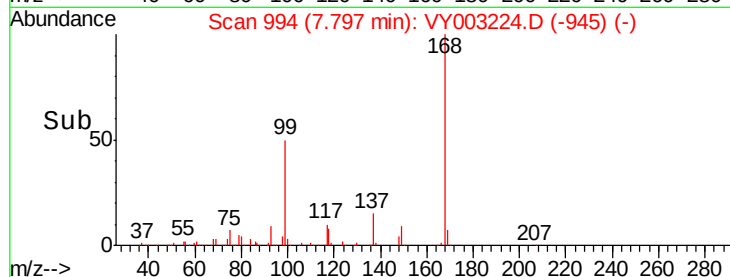
7.80

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 7.257 ug/l

RT: 3.53 min Scan# 294

Delta R.T. -0.01 min

Lab File: VY003224.D

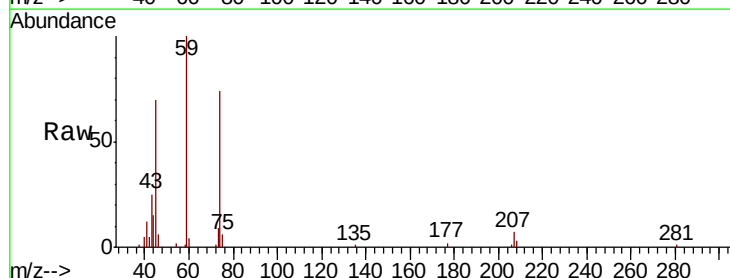
Acq: 16 Jul 2020 20:54

Tgt Ion: 74 Resp: 9003

Ion Ratio Lower Upper

74 100

45 101.6 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) (-)

3.53

4000

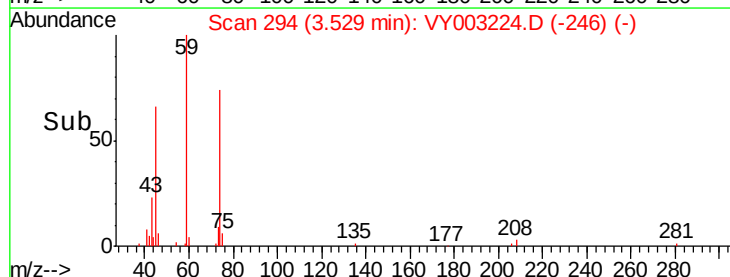
3000

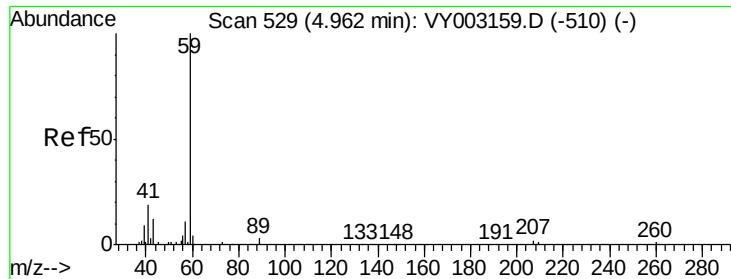
2000

1000

0

Time-->



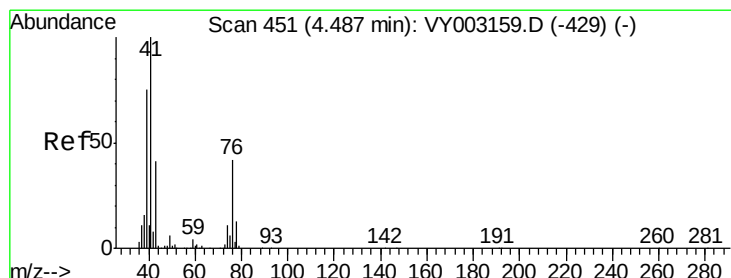
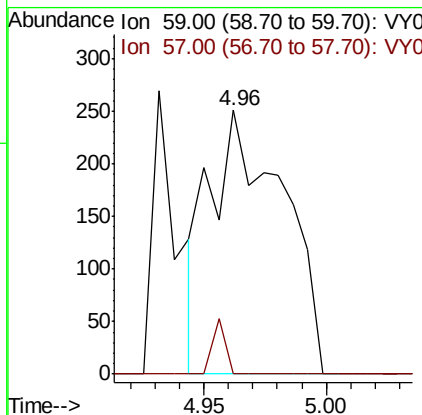
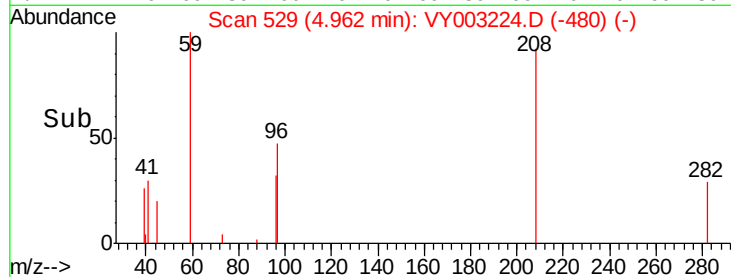
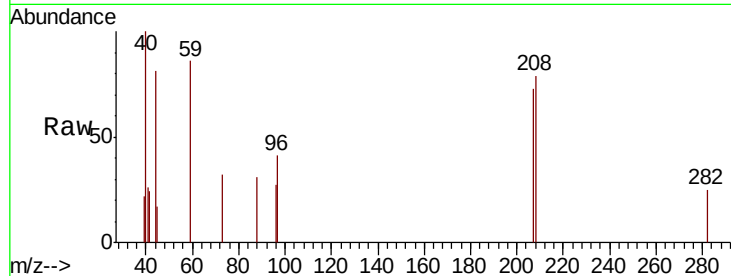


#11

Tert butyl alcohol  
 Concen: 2.263 ug/l  
 RT: 4.96 min Scan# 529  
 Delta R.T. -0.00 min  
 Lab File: VY003224.D  
 Acq: 16 Jul 2020 20:54

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 17RE

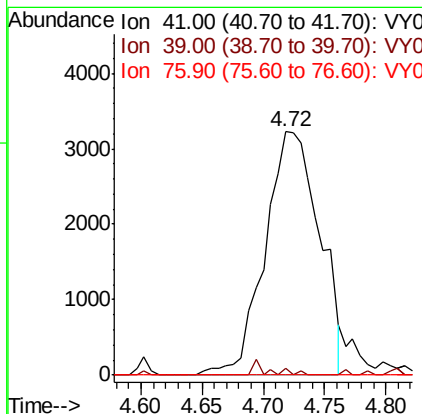
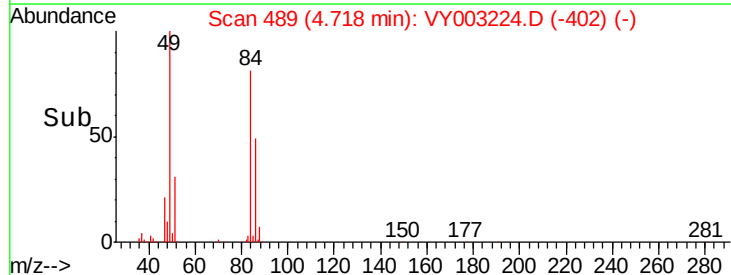
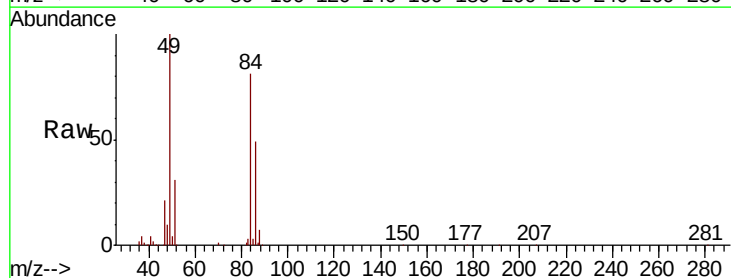
Tot Ion: 59 Resp: 525  
 Ion Ratio Lower Upper  
 59 100  
 57 3.6 8.4 12.6#

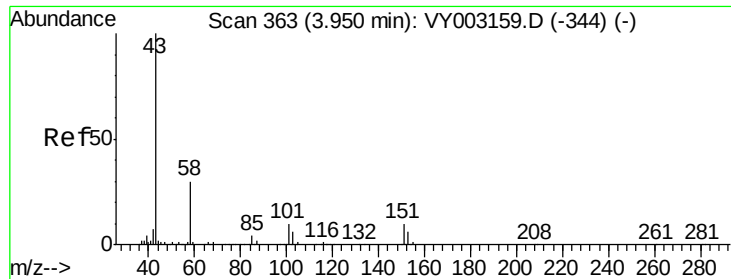


#14

Allyl chloride  
 Concen: 3.178 ug/l  
 RT: 4.72 min Scan# 489  
 Delta R.T. 0.23 min  
 Lab File: VY003224.D  
 Acq: 16 Jul 2020 20:54

Tgt Ion: 41 Resp: 9973  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 56.6 85.0#  
 76 0.0 31.6 47.4#

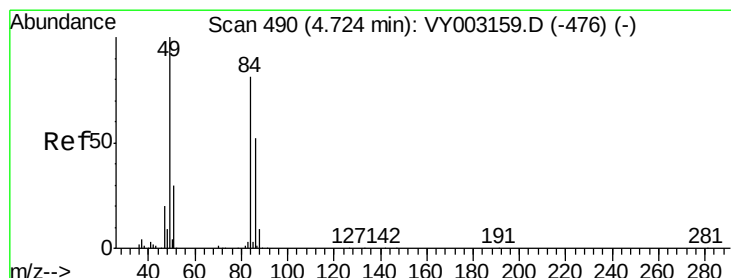
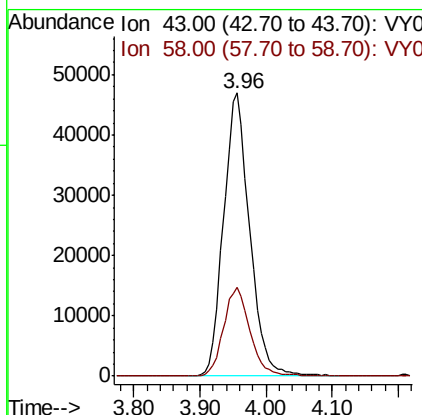
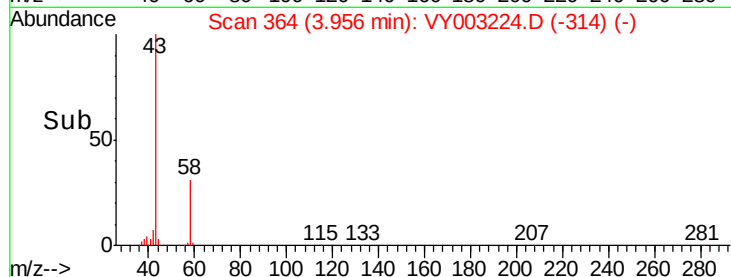
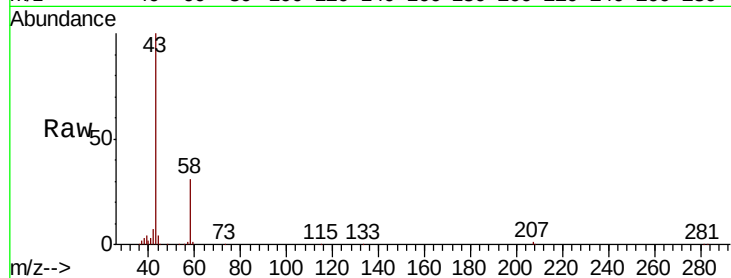




#16  
Acetone  
Concen: 268.250 ug/l  
RT: 3.96 min Scan# 364  
Delta R.T. 0.01 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

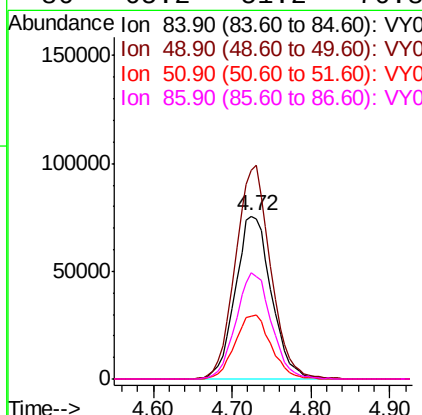
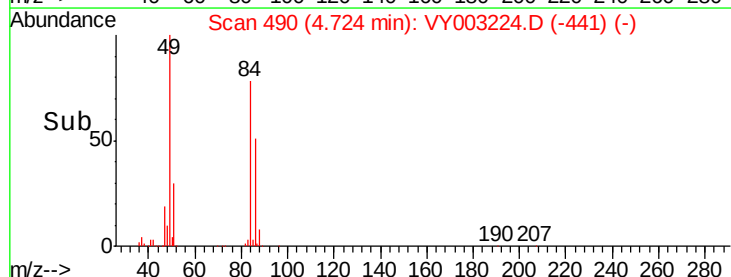
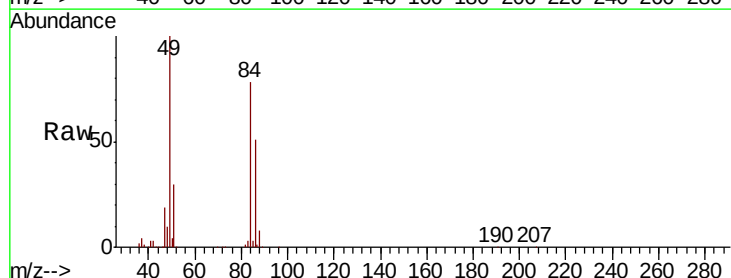
Instrument :  
MSVOA\_Y  
ClientSampled :  
17RE

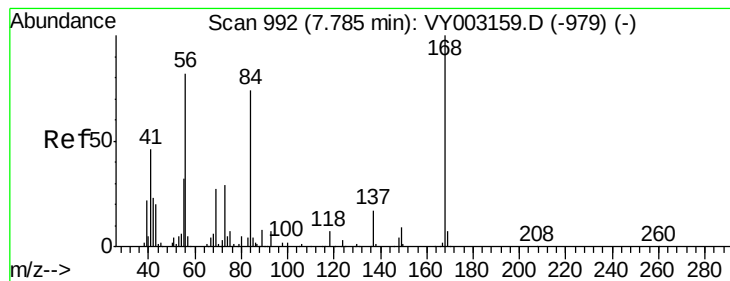
Tot Ion: 43 Resp: 128533  
Ion Ratio Lower Upper  
43 100  
58 31.4 23.8 35.6



#20  
Methylene Chloride  
Concen: 105.430 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

Tgt Ion: 84 Resp: 239484  
Ion Ratio Lower Upper  
84 100  
49 127.8 98.2 147.4  
51 38.8 29.8 44.6  
86 65.2 51.2 76.8





#31

Cyclohexane

Concen: 1.138 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003224.D

Acq: 16 Jul 2020 20:54

Instrument :

MSVOA\_Y

ClientSampled :

17RE

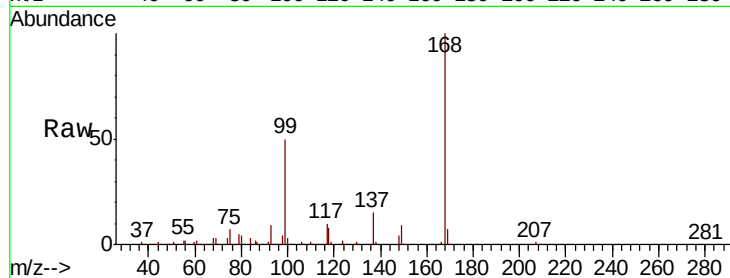
Tot Ion: 56 Resp: 4442

Ion Ratio Lower Upper

56 100

69 170.7 26.7 40.1#

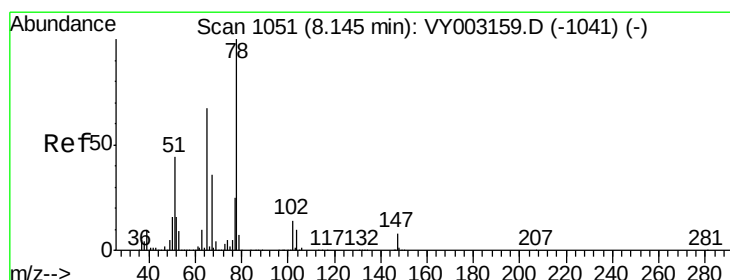
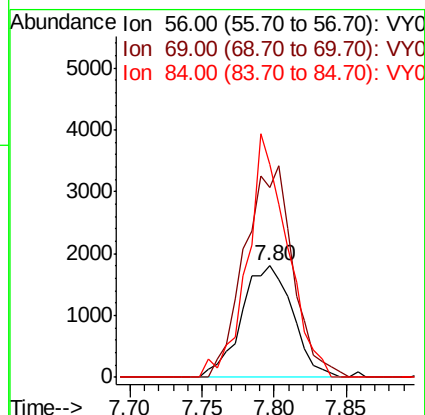
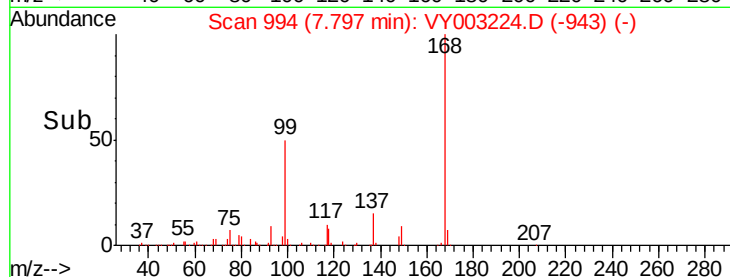
84 191.3 72.3 108.5#



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: 64.861 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003224.D

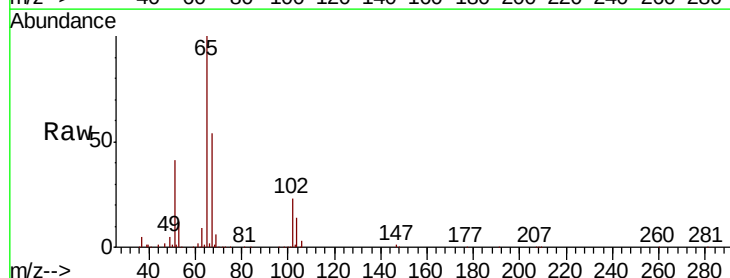
Acq: 16 Jul 2020 20:54

Tgt Ion: 65 Resp: 139134

Ion Ratio Lower Upper

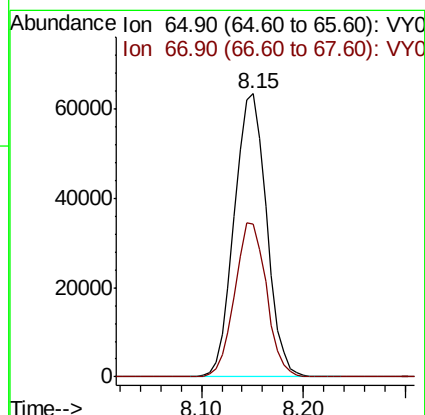
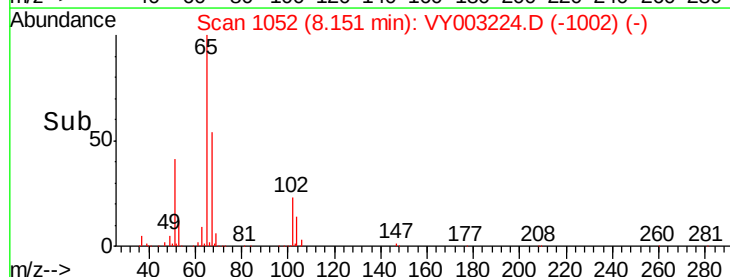
65 100

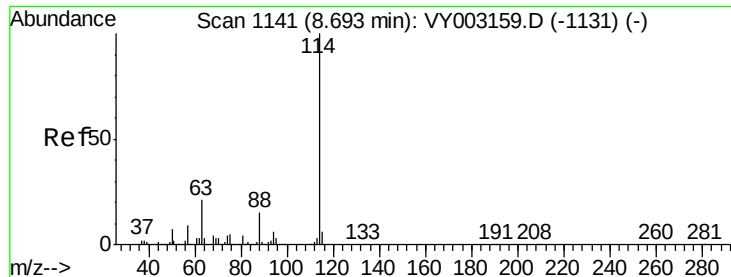
67 53.5 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

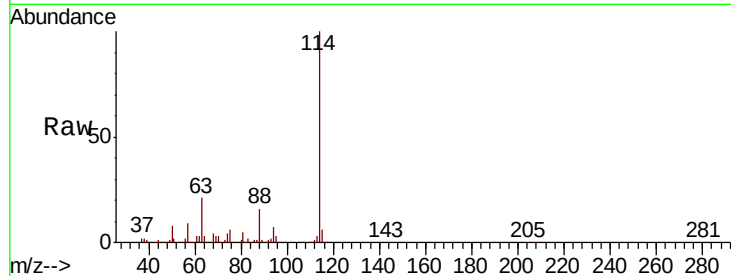




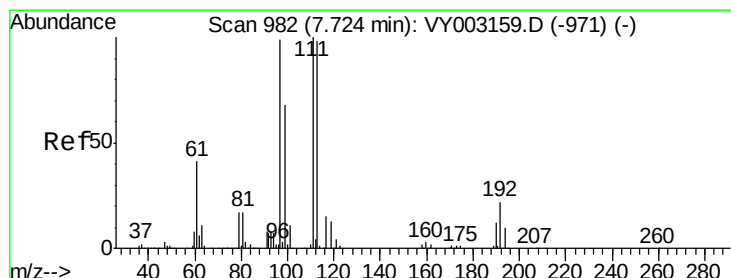
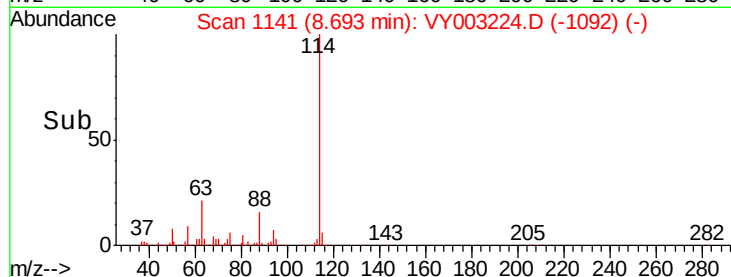
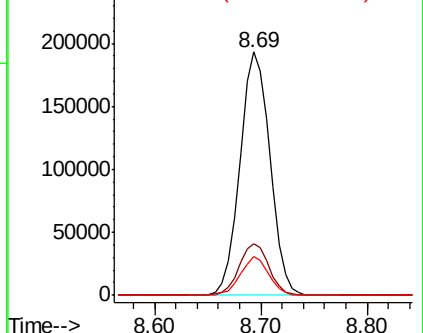
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.69 min Scan# 1141  
Delta R.T. -0.00 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

Instrument :  
MSVOA\_Y  
ClientSampleId :  
17RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.3  | 0.0   | 41.2  |
| 88      | 15.7  | 0.0   | 30.2  |

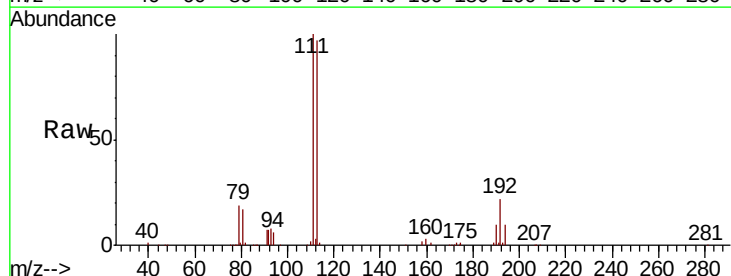


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VY0  
Ion 87.90 (87.60 to 88.60): VY0

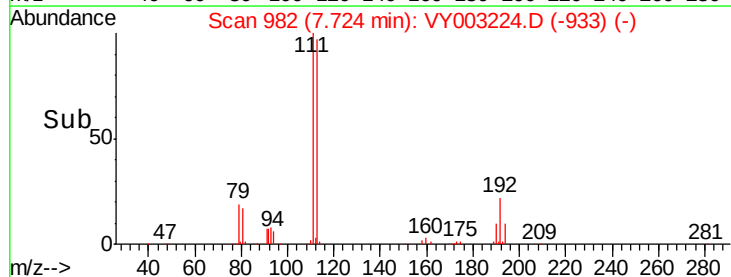
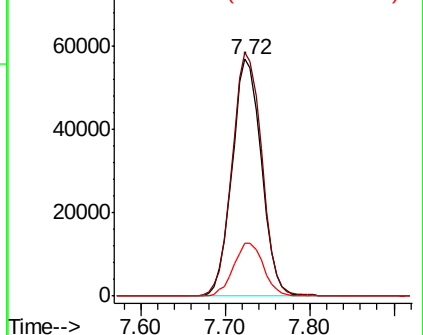


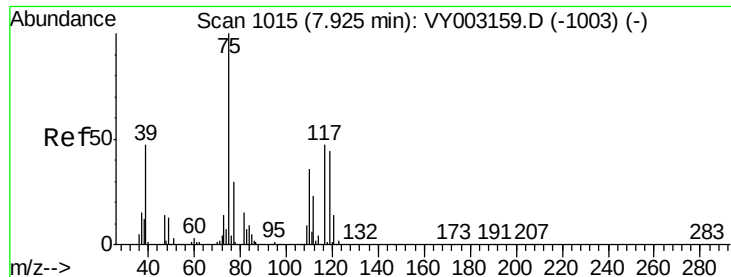
#35  
Dibromofluoromethane  
Concen: 60.535 ug/l  
RT: 7.72 min Scan# 982  
Delta R.T. -0.00 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.9 | 82.1  | 123.1 |
| 192     | 22.8  | 18.8  | 28.2  |



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

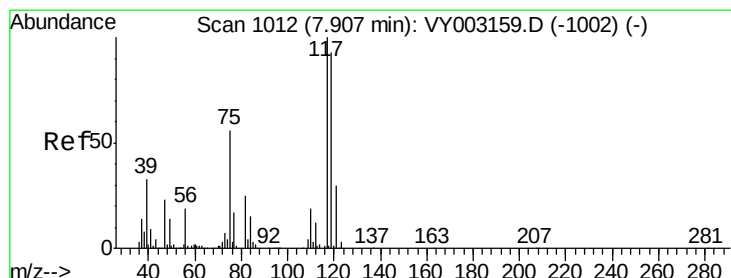
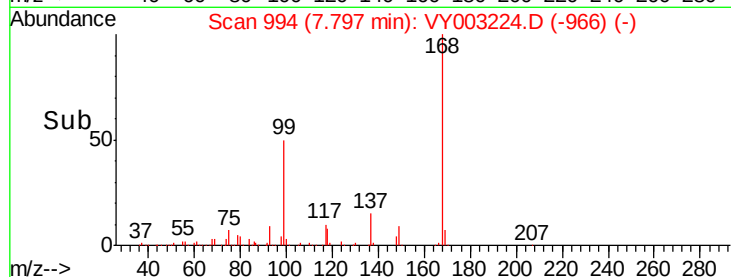
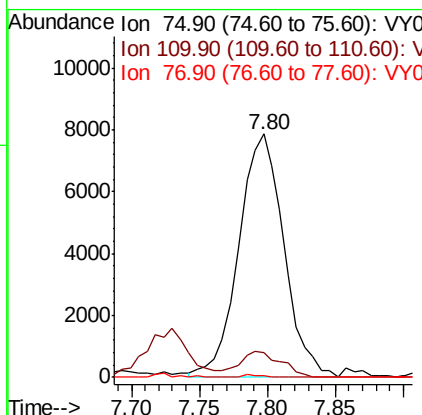
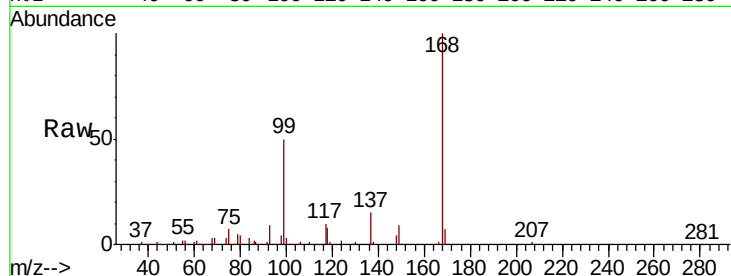




#36  
 1,1-Dichloropropene  
 Concen: 5.252 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY003224.D  
 Acq: 16 Jul 2020 20:54

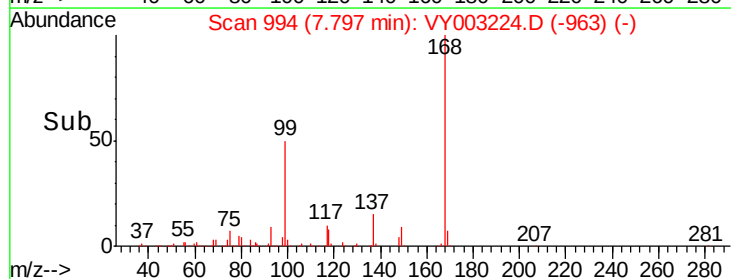
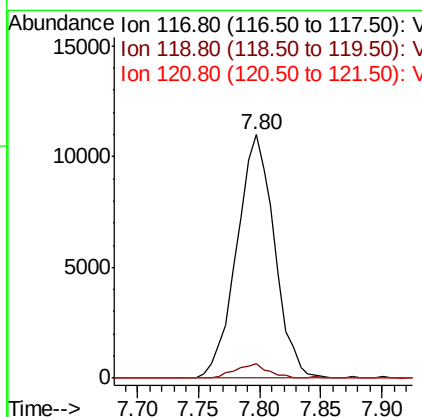
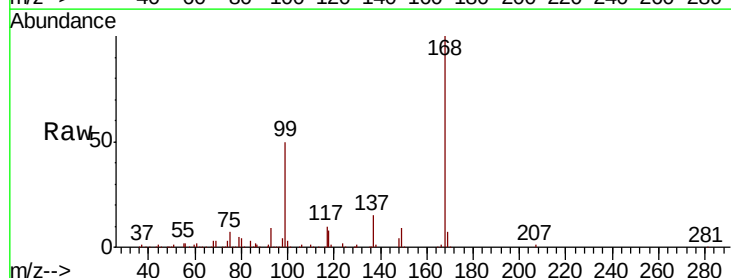
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 17RE

| Tot Ion   | 75  | 110   | 77    | Resp | 18238 | Lower | Upper |
|-----------|-----|-------|-------|------|-------|-------|-------|
| Ion Ratio | 100 | 9.7   | 0.5   |      |       |       |       |
|           |     | 18.1  | 24.8  |      |       |       |       |
|           |     | 54.1# | 37.2# |      |       |       |       |

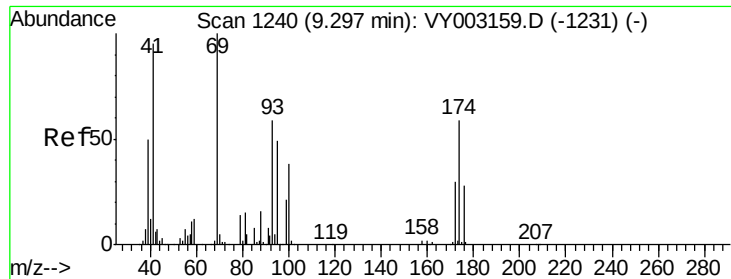


#38  
 Carbon Tetrachloride  
 Concen: 6.539 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.11 min  
 Lab File: VY003224.D  
 Acq: 16 Jul 2020 20:54

| Tgt Ion   | 117 | 119    | 121   | Resp | 23443 | Lower | Upper |
|-----------|-----|--------|-------|------|-------|-------|-------|
| Ion Ratio | 100 | 5.8    | 0.0   |      |       |       |       |
|           |     | 74.5   | 24.2  |      |       |       |       |
|           |     | 111.7# | 36.2# |      |       |       |       |



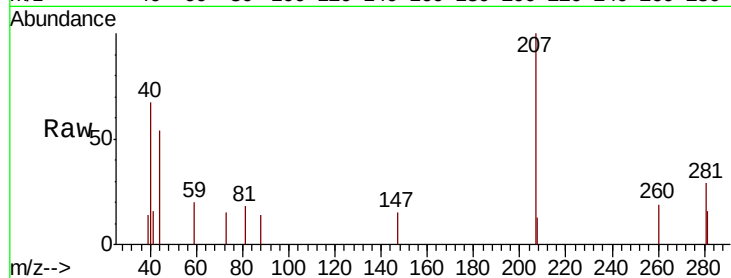




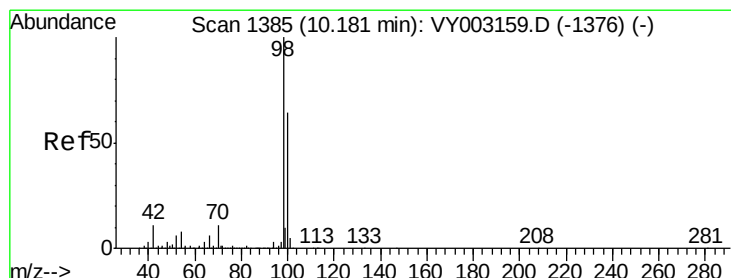
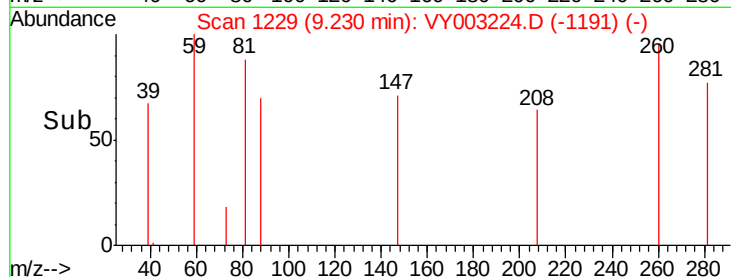
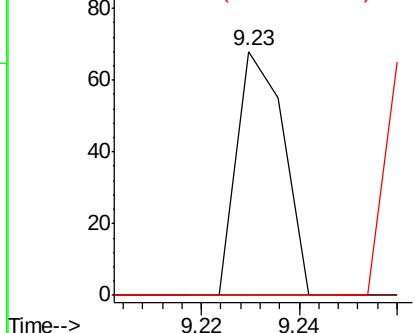
#49  
1,4-Dioxane  
Concen: 2.454 ug/l  
RT: 9.23 min Scan# 1229  
Delta R.T. -0.07 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

Instrument :  
MSVOA\_Y  
ClientSampleId :  
17RE

Tot Ion: 88 Resp: 45  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.6 38.4#  
58 0.0 47.8 71.6#

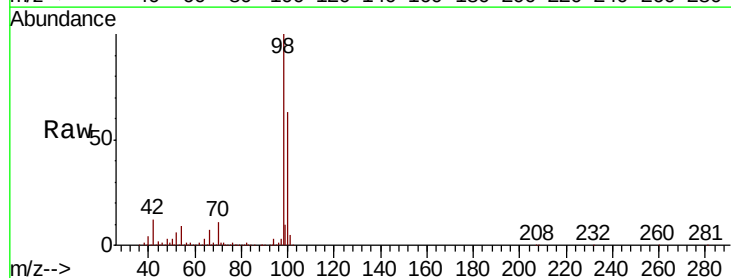


Abundance Ion 88.00 (87.70 to 88.70): VY0  
Ion 43.00 (42.70 to 43.70): VY0  
Ion 58.00 (57.70 to 58.70): VY0

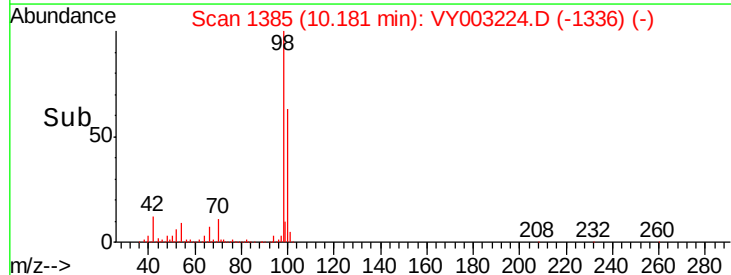
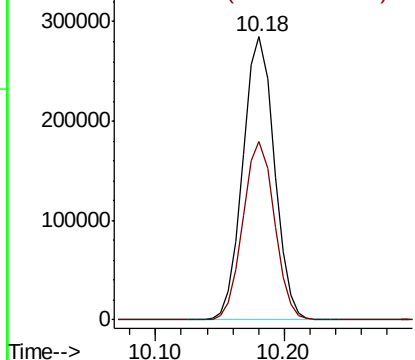


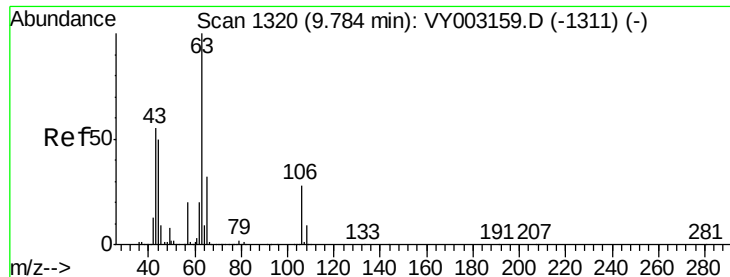
#50  
Toluene-d8  
Concen: 58.767 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

Tgt Ion: 98 Resp: 481754  
Ion Ratio Lower Upper  
98 100  
100 63.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY0

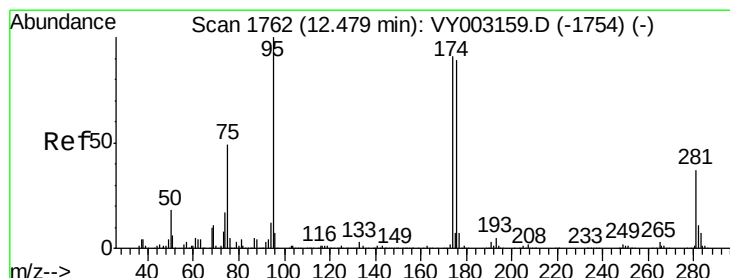
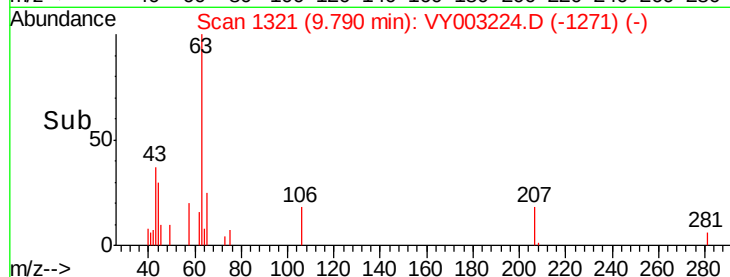
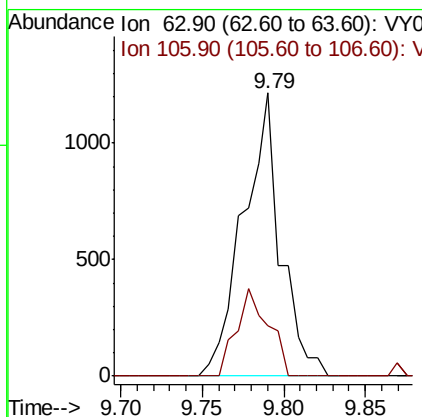
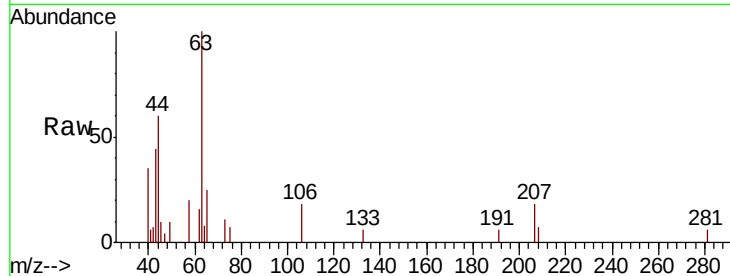




#58  
2-Chloroethyl Vinyl ether  
Concen: 1.366 ug/l  
RT: 9.79 min Scan# 1321  
Delta R.T. 0.01 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

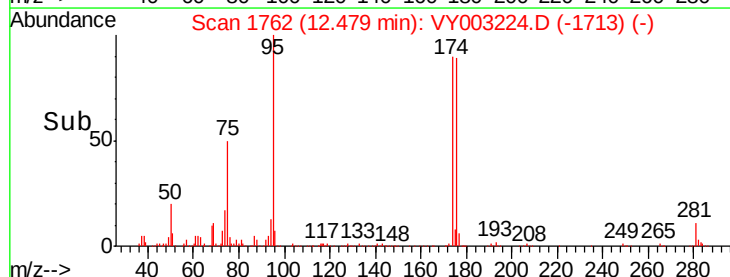
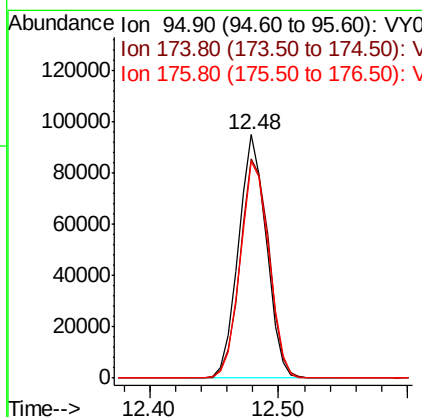
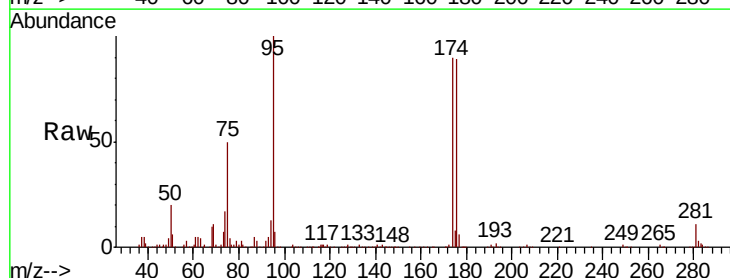
Instrument :  
MSVOA\_Y  
ClientSampleId :  
17RE

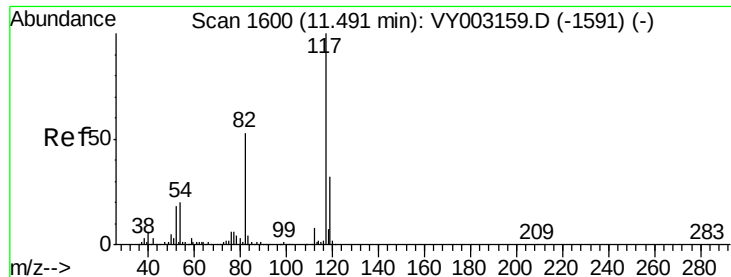
Tot Ion: 63 Resp: 1939  
Ion Ratio Lower Upper  
63 100  
106 26.4 22.9 34.3



#62  
4-Bromofluorobenzene  
Concen: 47.960 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

Tgt Ion: 95 Resp: 142034  
Ion Ratio Lower Upper  
95 100  
174 93.1 0.0 190.6  
176 91.6 0.0 186.4

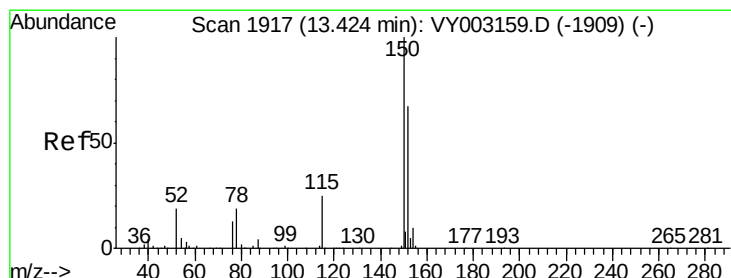
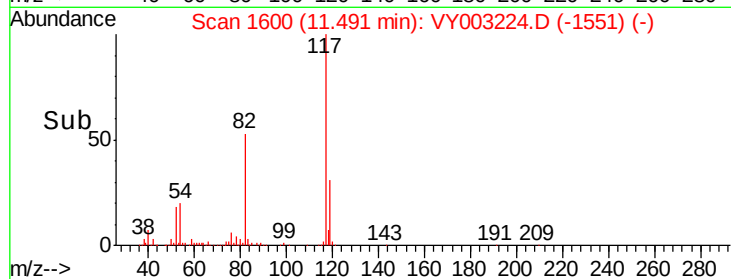
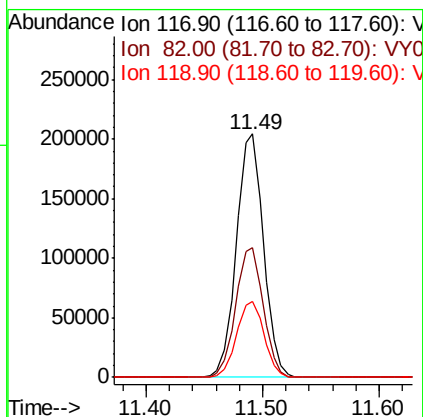
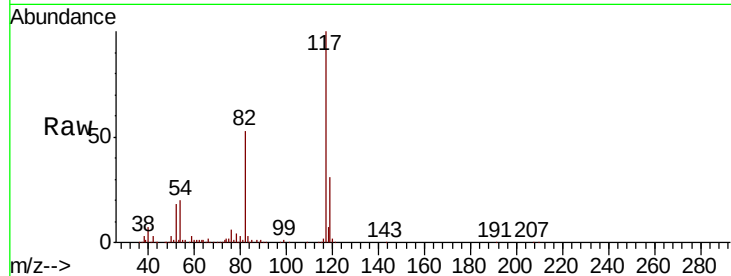




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

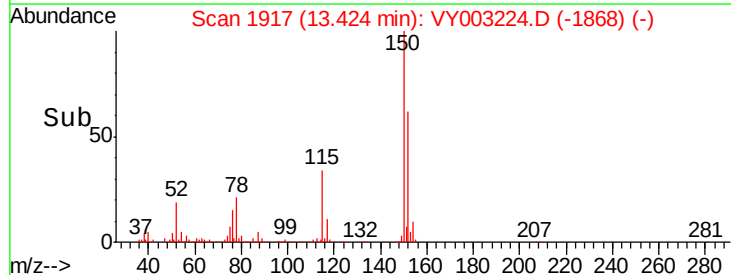
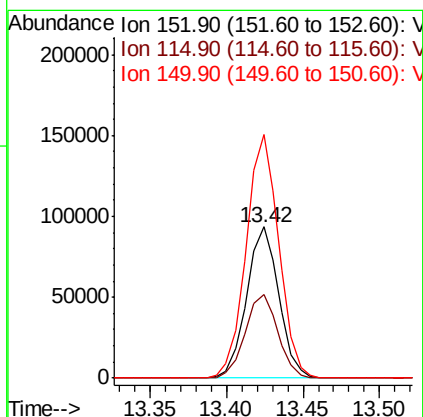
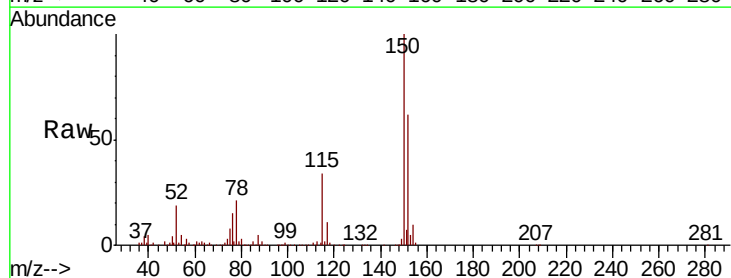
Instrument :  
MSVOA\_Y  
ClientSampleId :  
17RE

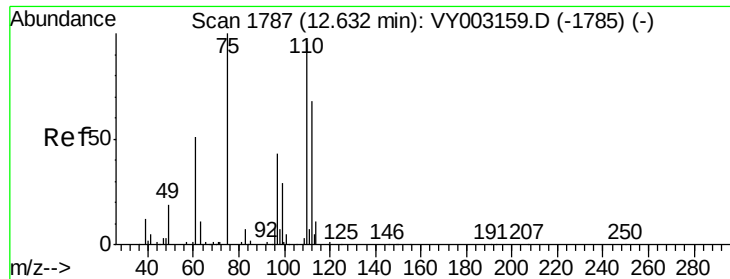
Tot Ion:117 Resp: 332058  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.0 63.0  
119 31.3 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY003224.D  
Acq: 16 Jul 2020 20:54

Tgt Ion:152 Resp: 136871  
Ion Ratio Lower Upper  
152 100  
115 56.0 26.9 80.7  
150 162.9 0.0 338.0





#76

1,2,3-Trichloropropane

Concen: 60.542 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003224.D

Acq: 16 Jul 2020 20:54

Instrument :

MSVOA\_Y

ClientSampled :

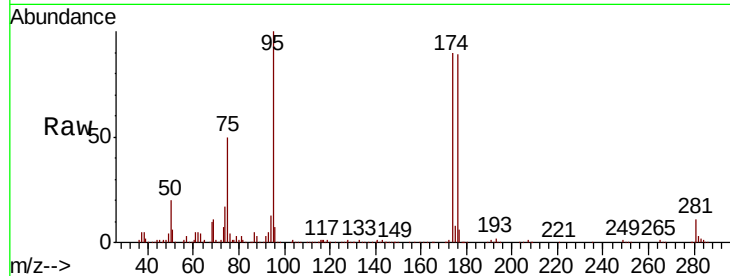
17RE

Tot Ion: 75 Resp: 73349

Ion Ratio Lower Upper

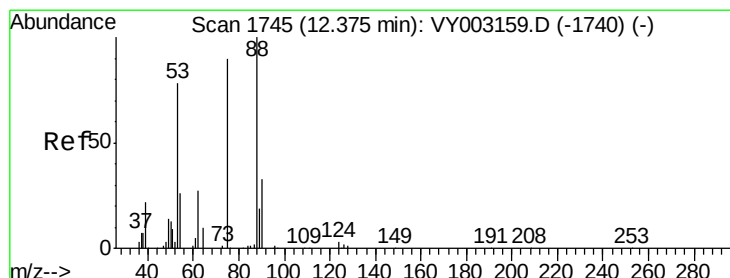
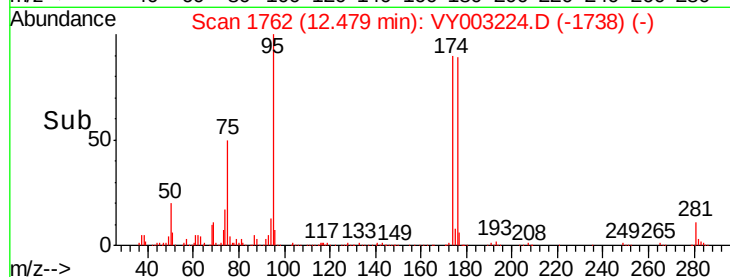
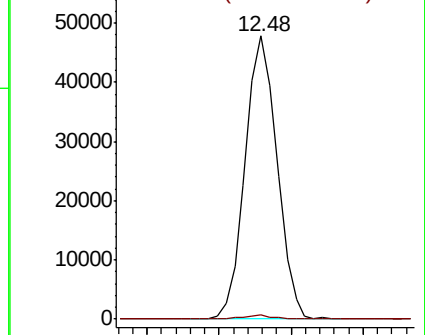
75 100

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: 117.826 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003224.D

Acq: 16 Jul 2020 20:54

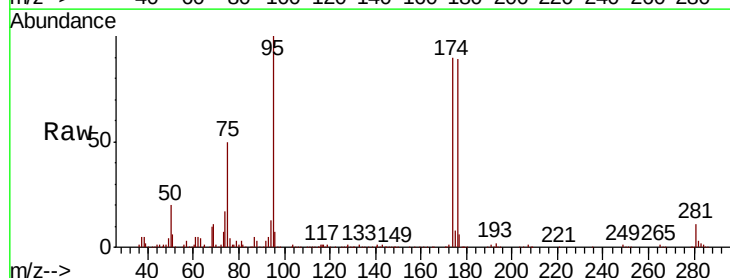
Tgt Ion: 75 Resp: 73349

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.3 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

