

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY121619\  
 Data File : VY000960.D  
 Acq On : 16 Dec 2019 17:18  
 Operator : SY/MD  
 Sample : K6317-06  
 Misc : 7.41G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 178K-SB6

Quant Time: Dec 17 06:07:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 12:40:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 226893   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 428810   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 384618   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 168628   | 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   | 137267   | 56.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.88% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 124483   | 49.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.62%  |          |
| 50) Toluene-d8              | 10.18 | 98   | 506947   | 50.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.48% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 168384   | 44.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.76%  |          |

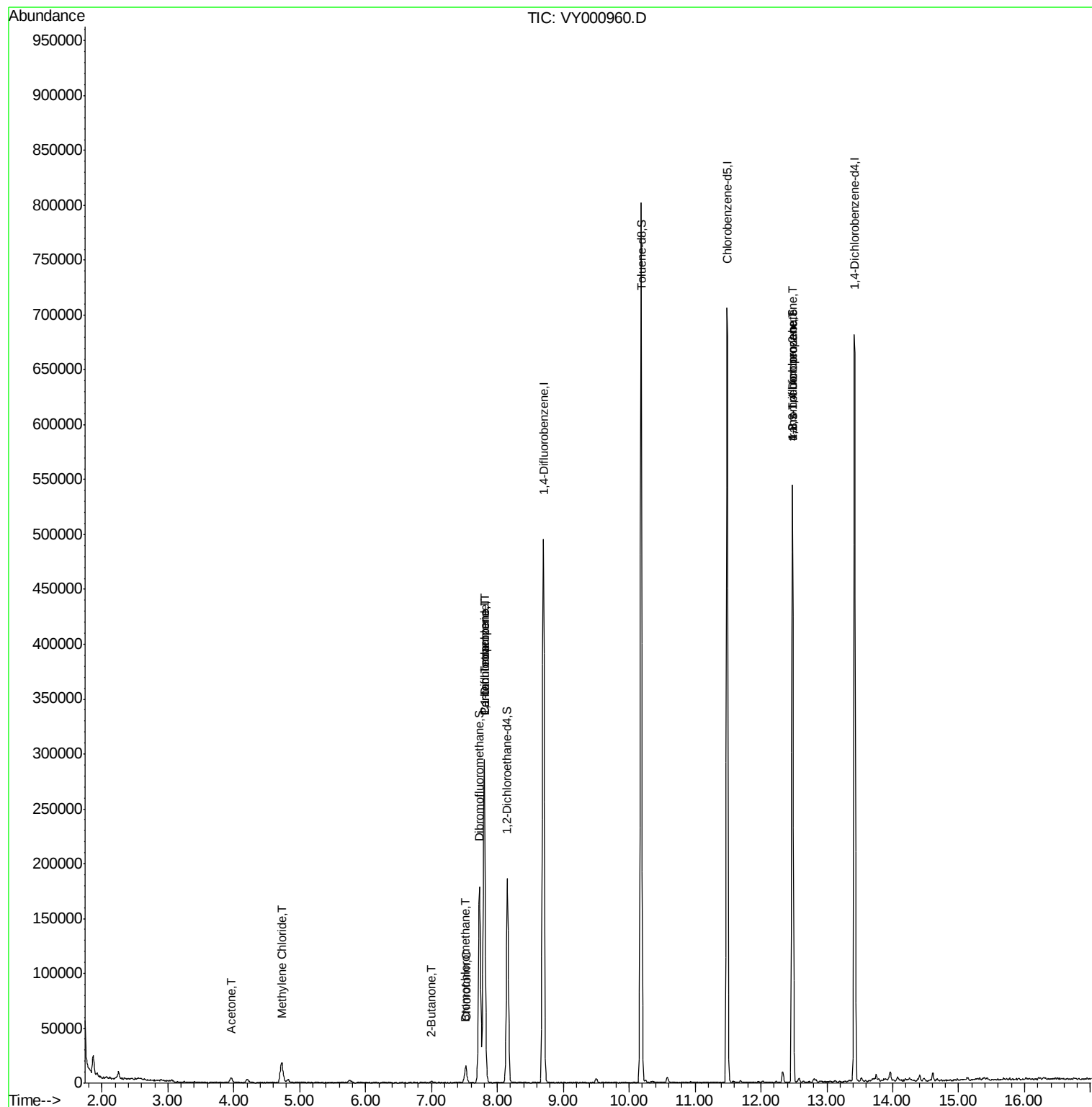
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.64  | 94   | 72       | Below Cal | #      | 3      |
| 16) Acetone                    | 3.96  | 43   | 7186     | 12.993    | ug/l   | 100    |
| 20) Methylene Chloride         | 4.73  | 84   | 13449    | 4.613     | ug/l   | 97     |
| 25) 2-Butanone                 | 7.01  | 43   | 1222     | 1.196     | ug/l   | 97     |
| 28) Bromochloromethane         | 7.51  | 49   | 439      | 2.253     | ug/l # | 15     |
| 30) Chloroform                 | 7.52  | 83   | 15034    | 3.101     | ug/l   | 86     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 19498    | 4.573     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 22420    | 5.905     | ug/l # | 13     |
| 76) 1,2,3-Trichloropropane     | 12.47 | 75   | 86513    | 45.282    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.47 | 75   | 86513    | 88.947    | ug/l # | 17     |

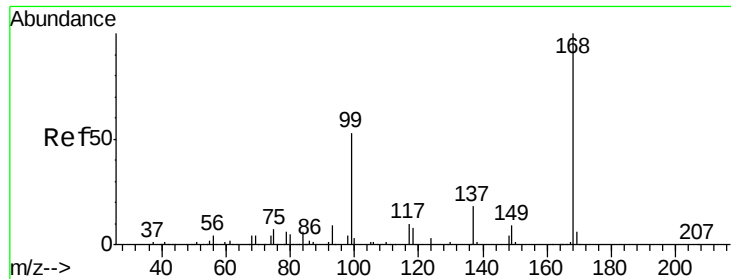
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB6

Quant Time: Dec 17 05:28:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 27 12:40:47 2019  
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: VY000960.D

Acq: 16 Dec 2019 17:18

Instrument :

MSVOA\_Y

ClientSampleId :

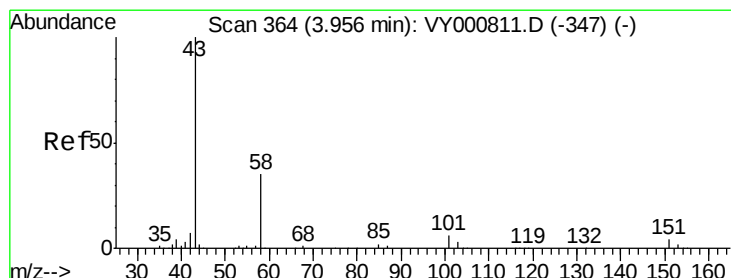
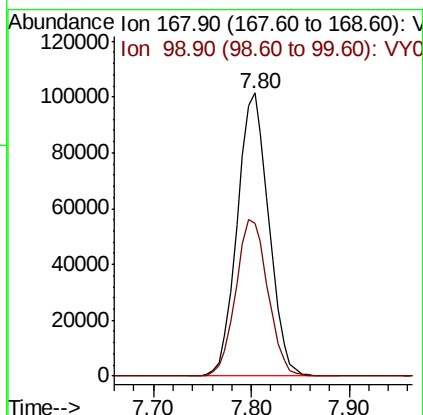
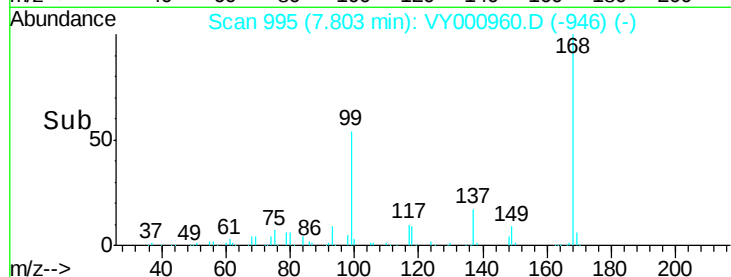
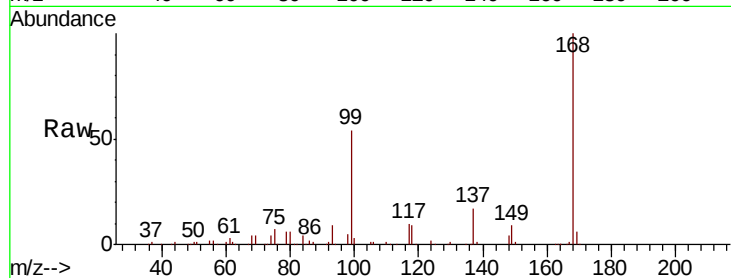
178K-SB6

Tgt Ion: 168 Resp: 226893

Ion Ratio Lower Upper

168 100

99 53.9 45.0 67.6



#16

Acetone

Concen: 12.993 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000960.D

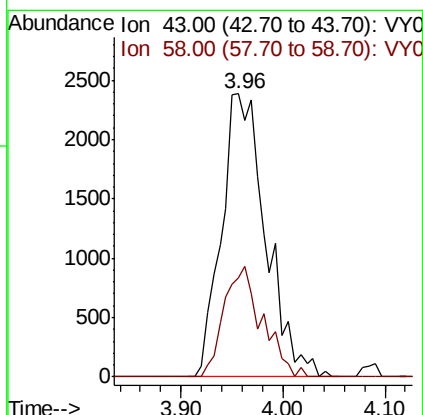
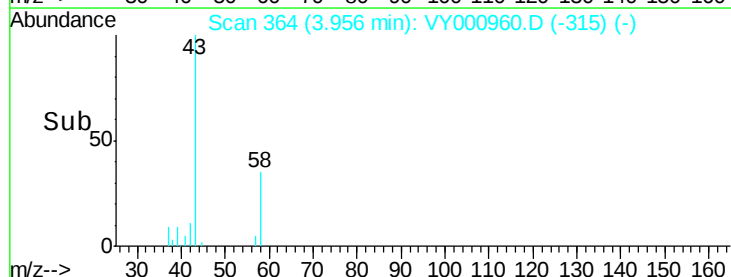
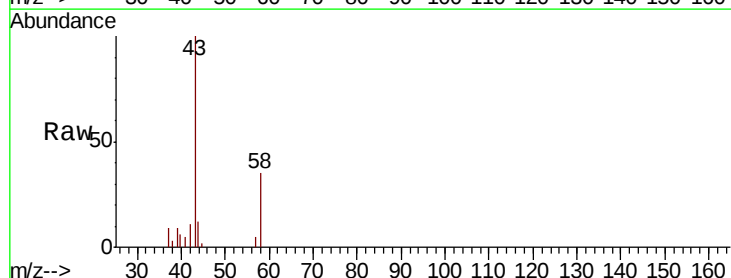
Acq: 16 Dec 2019 17:18

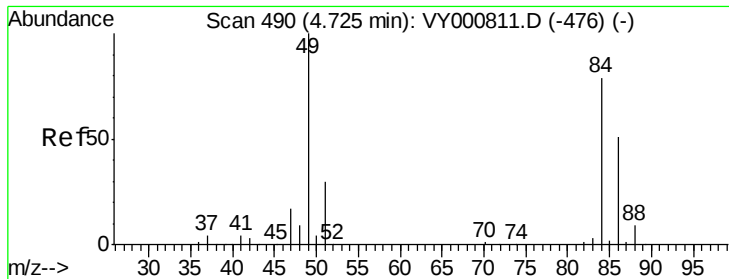
Tgt Ion: 43 Resp: 7186

Ion Ratio Lower Upper

43 100

58 34.9 28.0 42.0

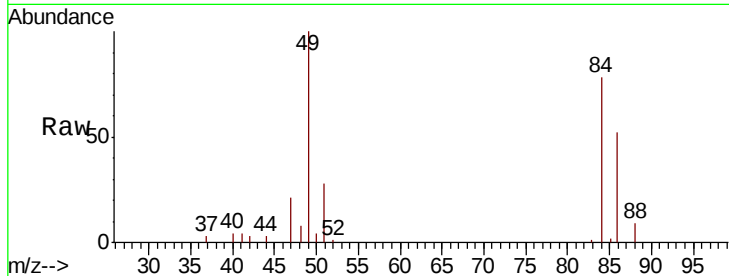




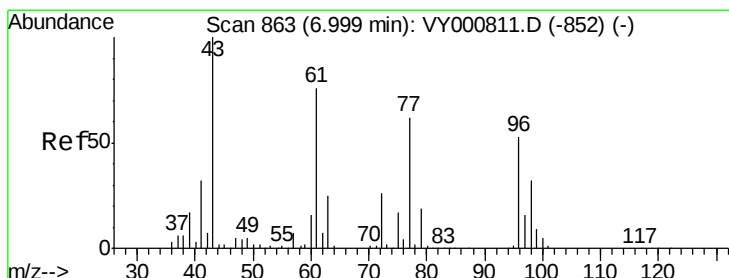
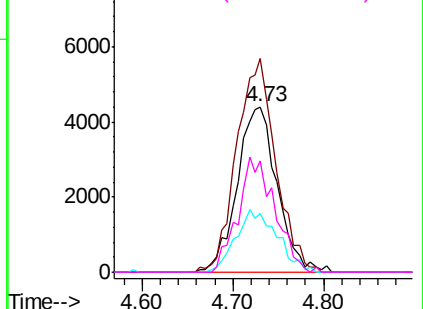
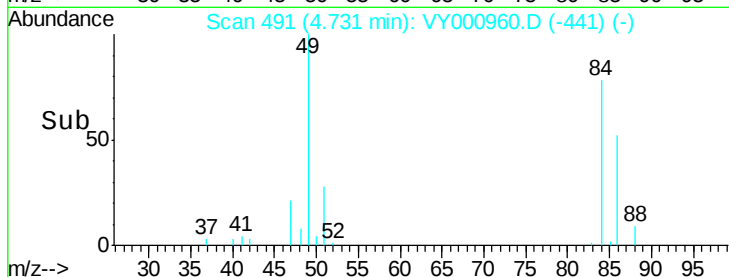
#20  
Methylene Chloride  
Concen: 4.613 ug/l  
RT: 4.73 min Scan# 491  
Delta R.T. 0.01 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB6

Tgt Ion: 84 Resp: 13449  
Ion Ratio Lower Upper  
84 100  
49 128.9 101.3 151.9  
51 35.5 30.6 45.8  
86 66.9 51.3 76.9

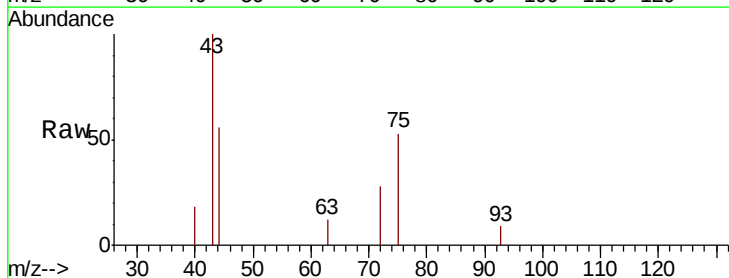


Abundance Ion 83.90 (83.60 to 84.60): VY0  
Ion 48.90 (48.60 to 49.60): VY0  
Ion 50.90 (50.60 to 51.60): VY0  
Ion 85.90 (85.60 to 86.60): VY0

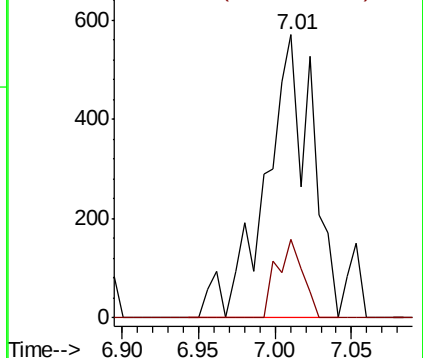
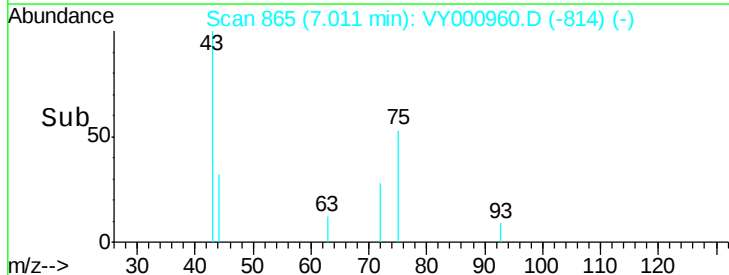


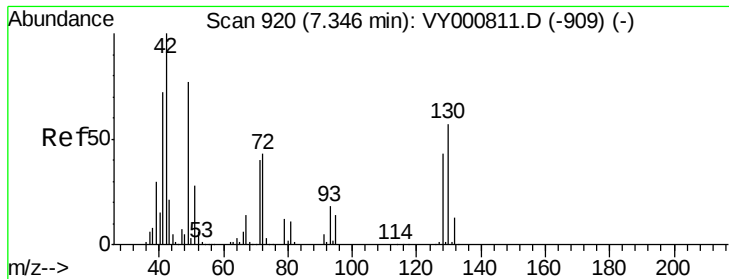
#25  
2-Butanone  
Concen: 1.196 ug/l  
RT: 7.01 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

Tgt Ion: 43 Resp: 1222  
Ion Ratio Lower Upper  
43 100  
72 27.7 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0





#28

Bromochloromethane

Concen: 2.253 ug/l

RT: 7.51 min Scan# 947

Delta R.T. 0.16 min

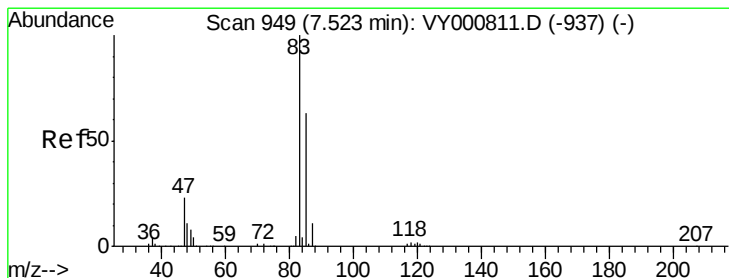
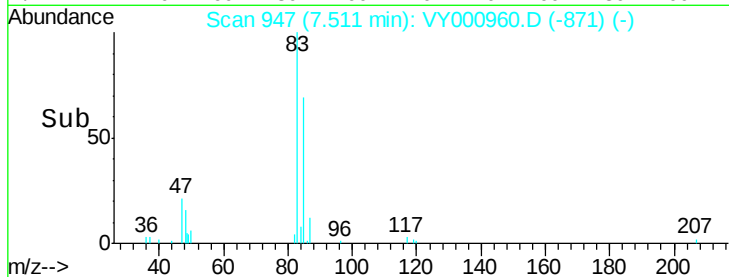
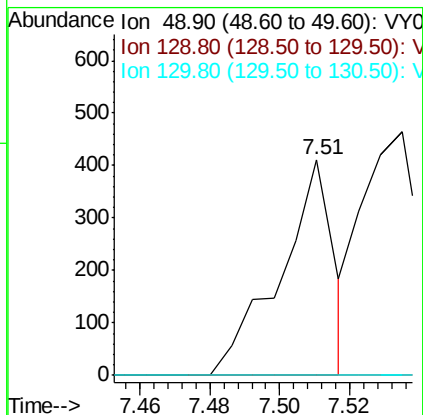
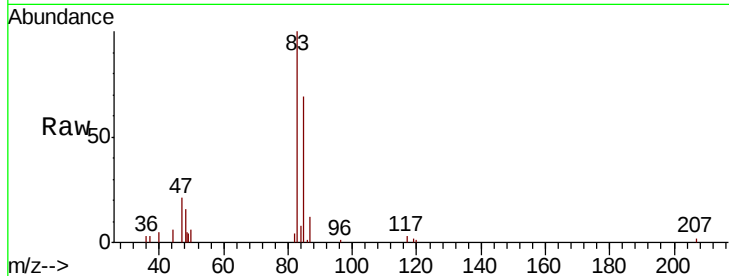
Lab File: VY000960.D

Acq: 16 Dec 2019 17:18

Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB6

Tgt Ion: 49 Resp: 439

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 129 | 0.0   | 0.0   | 3.8   |
| 130 | 0.0   | 58.7  | 88.1# |



#30

Chloroform

Concen: 3.101 ug/l

RT: 7.52 min Scan# 949

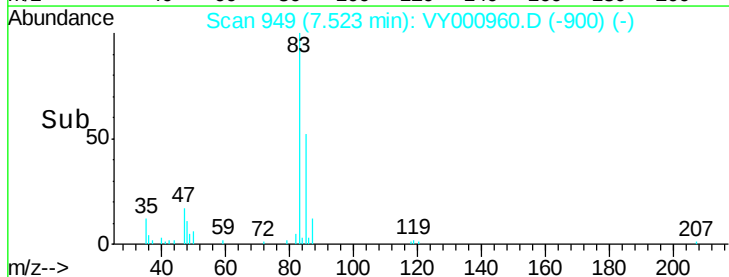
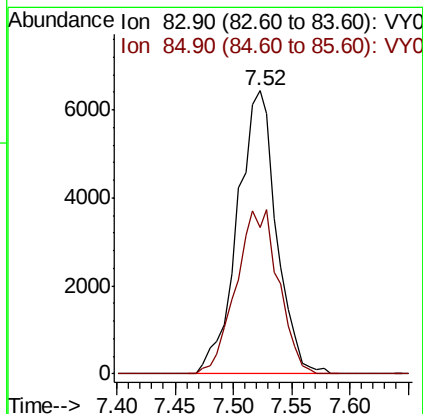
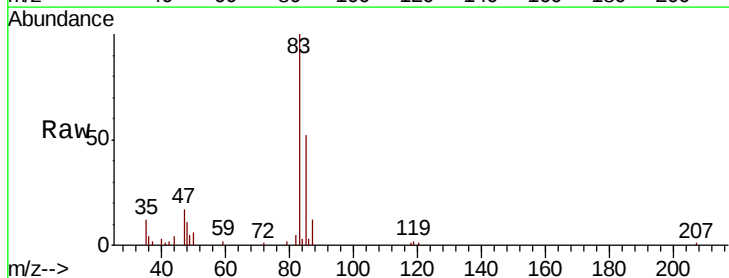
Delta R.T. -0.00 min

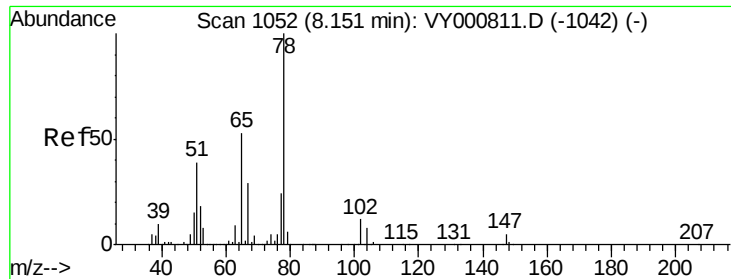
Lab File: VY000960.D

Acq: 16 Dec 2019 17:18

Tgt Ion: 83 Resp: 15034

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 51.9  | 50.4  | 75.6  |

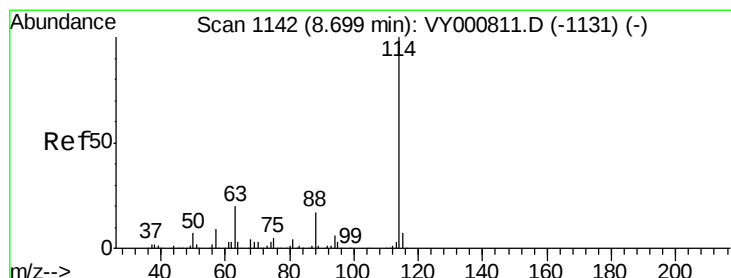
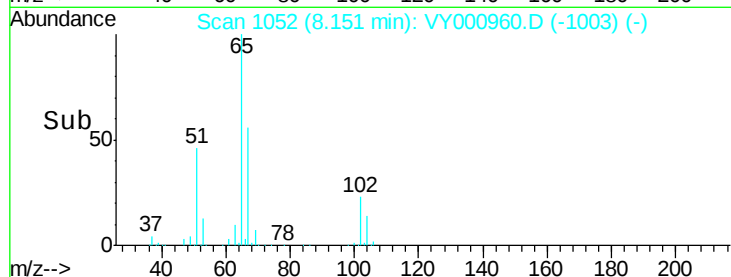
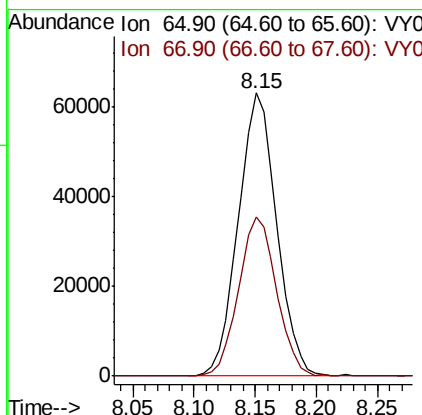
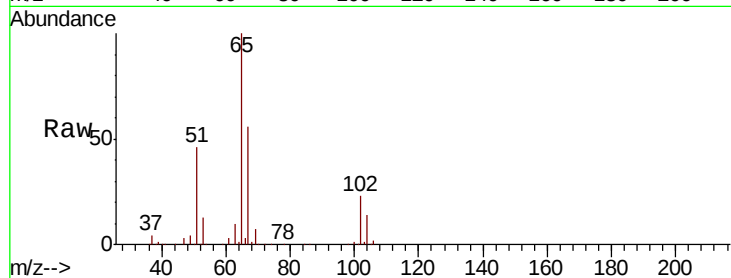




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.935 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. -0.00 min  
 Lab File: VY000960.D  
 Acq: 16 Dec 2019 17:18

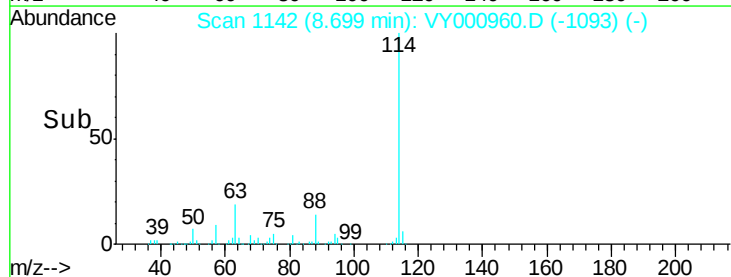
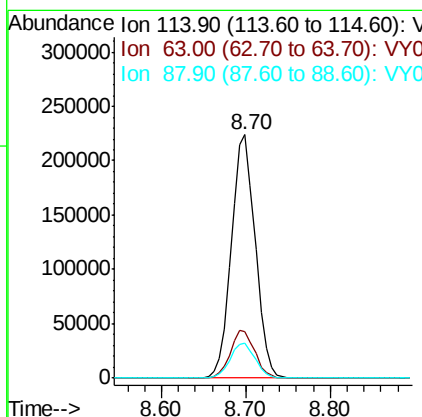
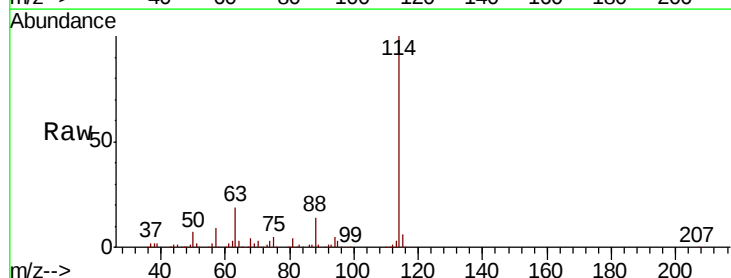
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 178K-SB6

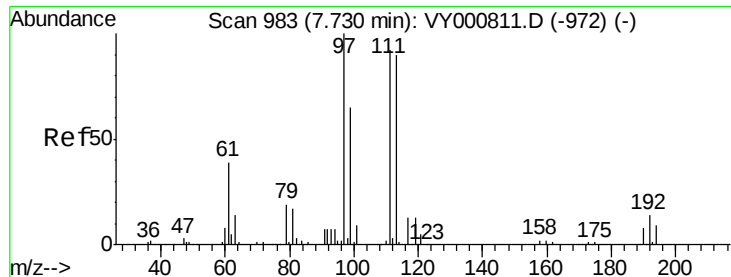
Tgt Ion: 65 Resp: 137267  
 Ion Ratio Lower Upper  
 65 100  
 67 55.8 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY000960.D  
 Acq: 16 Dec 2019 17:18

Tgt Ion: 114 Resp: 428810  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 39.8  
 88 14.4 0.0 33.2

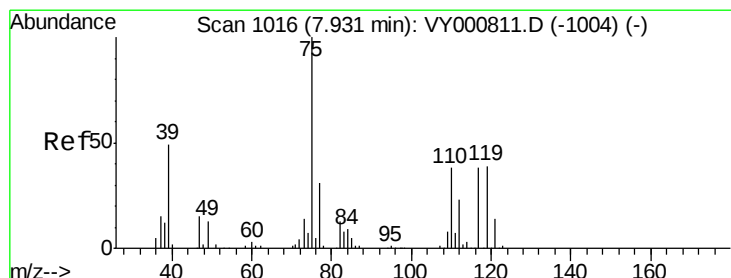
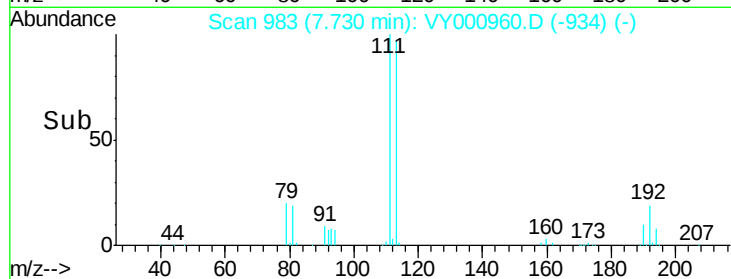
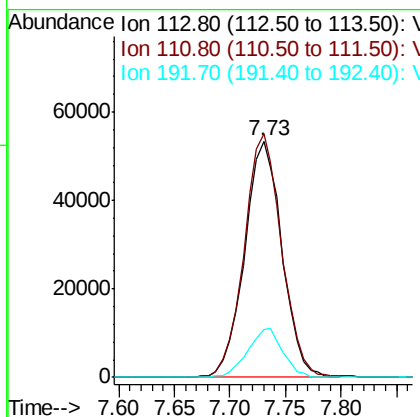
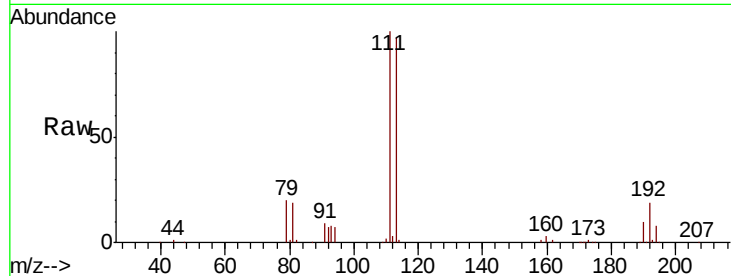




#35  
 Dibromofluoromethane  
 Concen: 49.811 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: VY000960.D  
 Acq: 16 Dec 2019 17:18

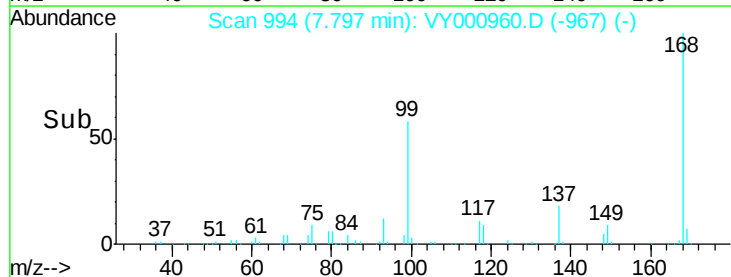
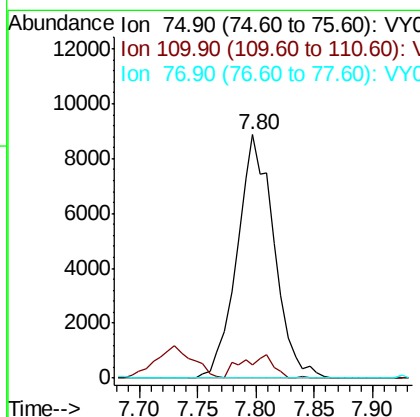
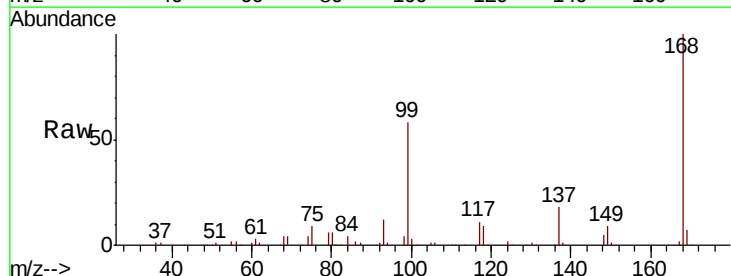
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 178K-SB6

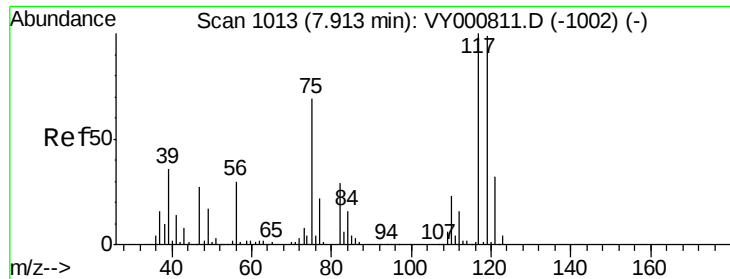
Tgt Ion:113 Resp: 124483  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 82.4 123.6  
 192 19.5 14.2 21.2



#36  
 1,1-Dichloropropene  
 Concen: 4.573 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY000960.D  
 Acq: 16 Dec 2019 17:18

Tgt Ion: 75 Resp: 19498  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 17.9 53.7#  
 77 0.0 24.7 37.1#

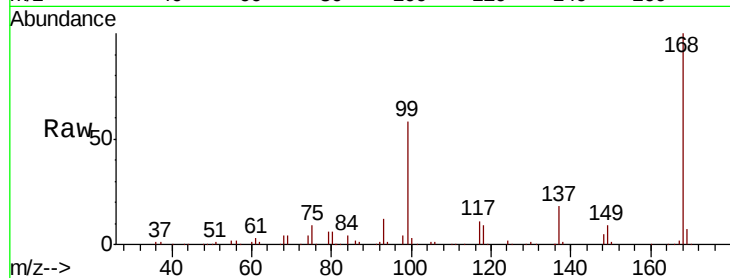




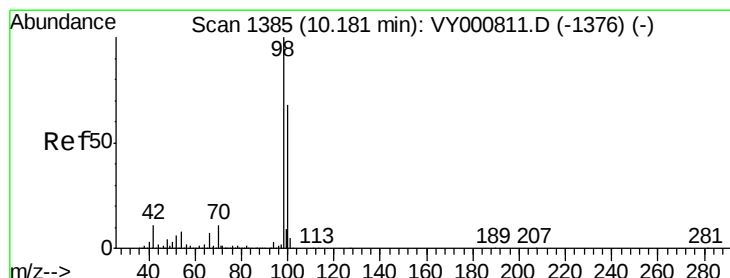
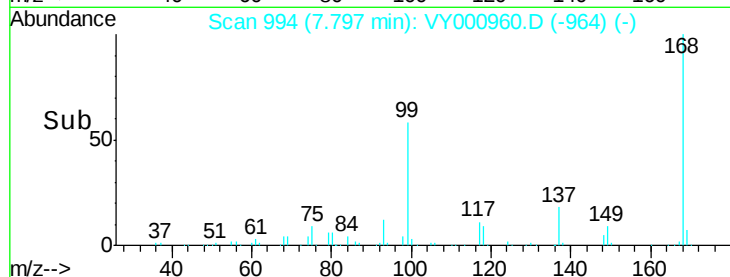
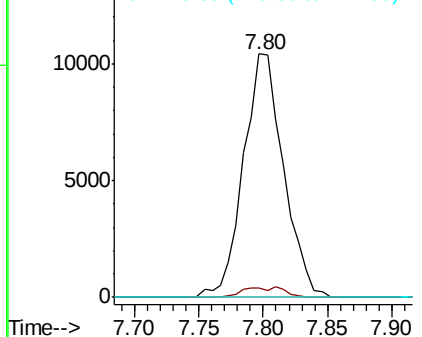
#38  
Carbon Tetrachloride  
Concen: 5.905 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.12 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB6

Tgt Ion:117 Resp: 22420  
Ion Ratio Lower Upper  
117 100  
119 3.6 79.3 118.9#  
121 0.0 25.5 38.3#

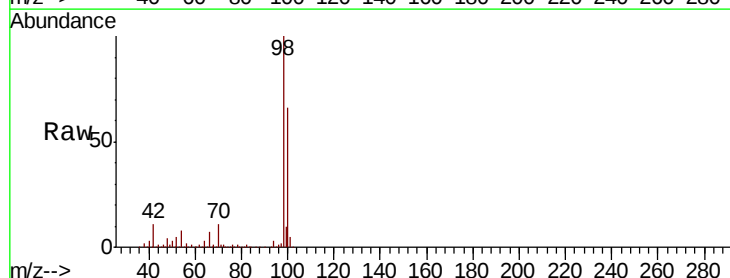


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

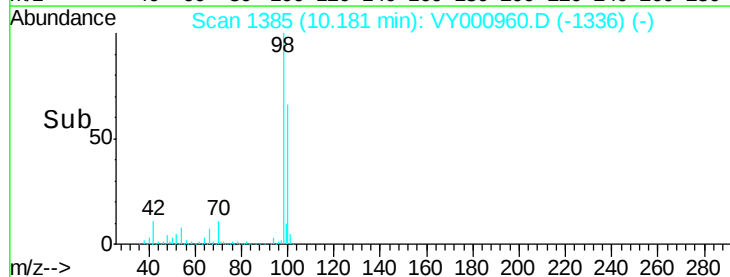
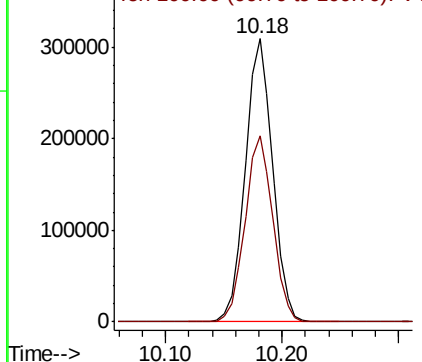


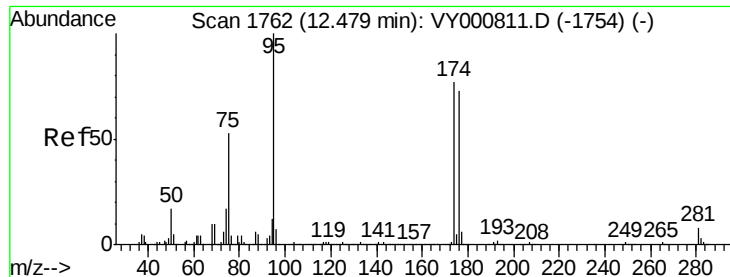
#50  
Toluene-d8  
Concen: 50.739 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

Tgt Ion: 98 Resp: 506947  
Ion Ratio Lower Upper  
98 100  
100 66.7 53.1 79.7



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

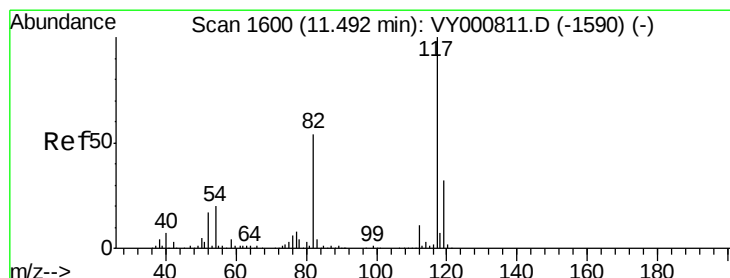
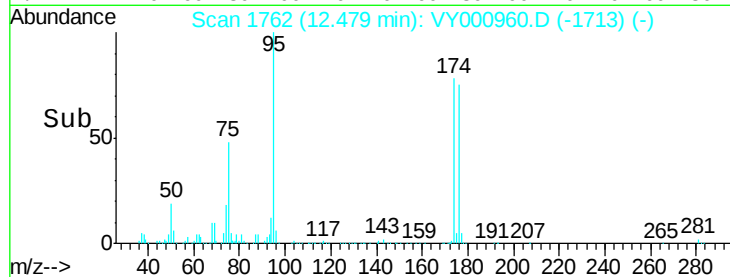
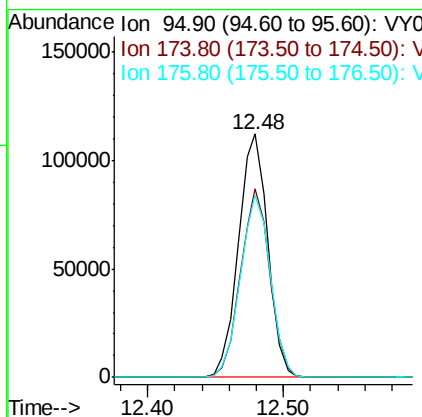
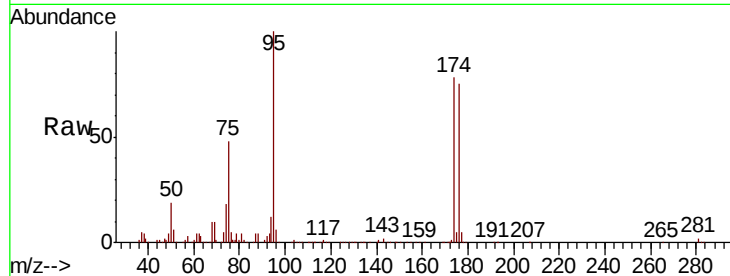




#62  
4-Bromofluorobenzene  
Concen: 44.876 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

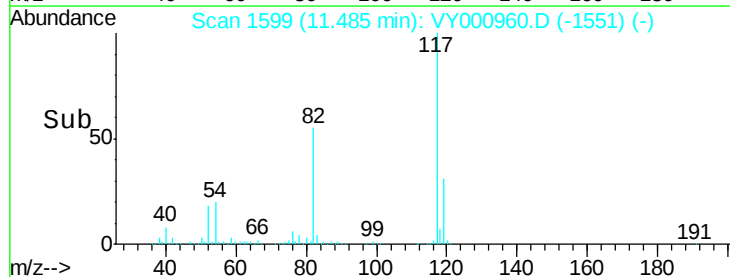
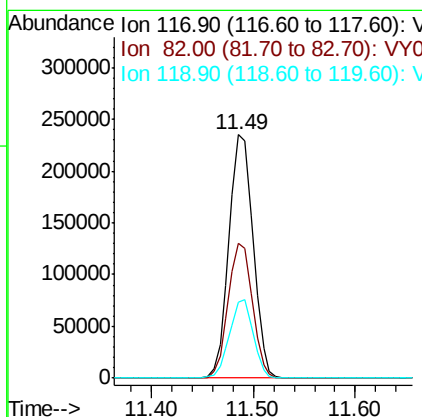
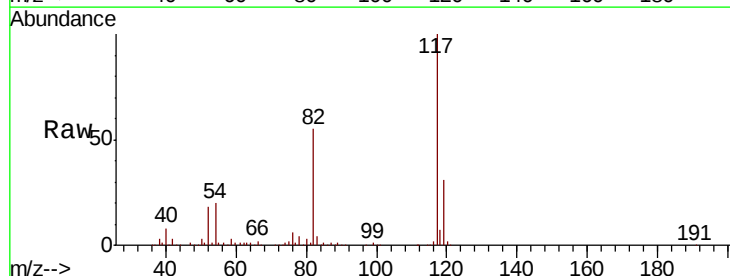
Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB6

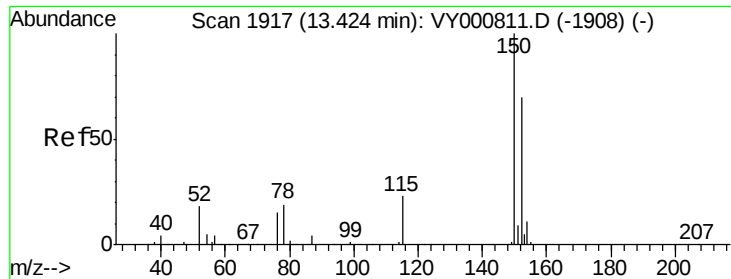
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 77.6  | 0.0   | 150.6 |
| 176     | 76.7  | 0.0   | 145.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.4  | 43.1  | 64.7  |
| 119     | 31.2  | 25.3  | 37.9  |



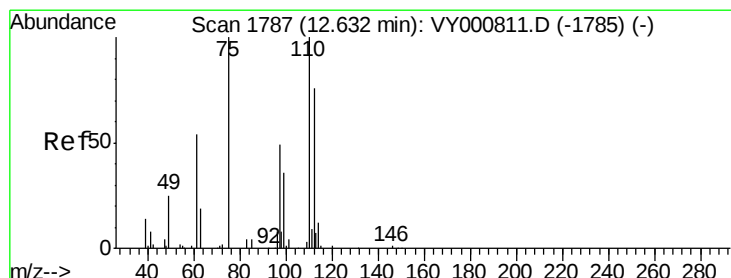
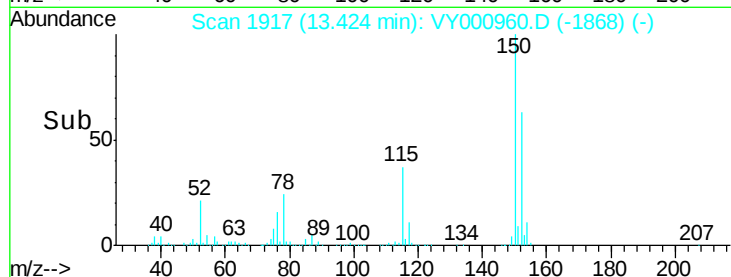
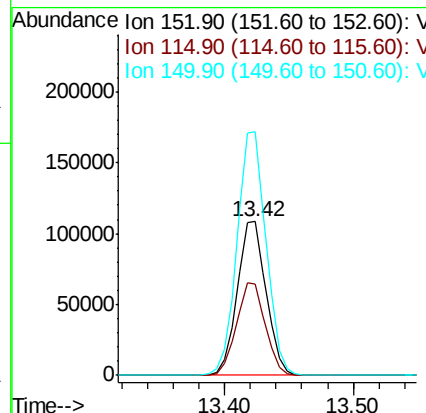
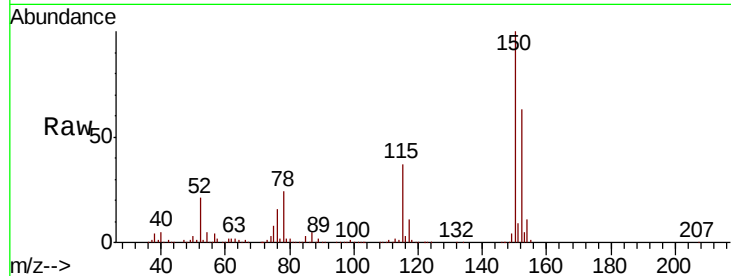


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB6

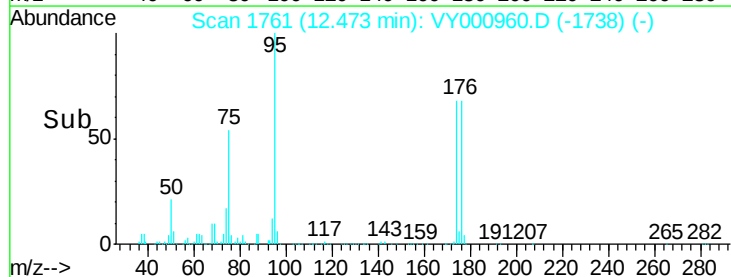
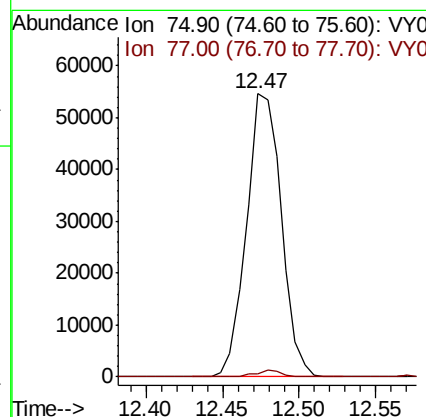
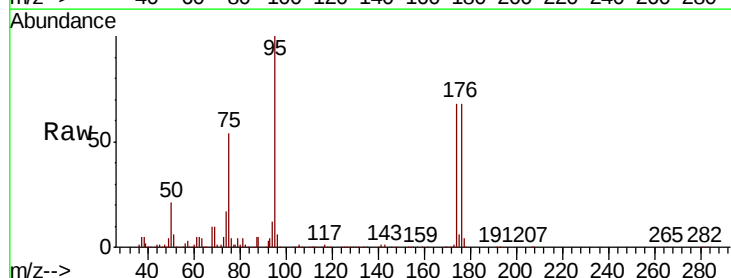
Tgt Ion:152 Resp: 168628  
Ion Ratio Lower Upper  
152 100  
115 60.4 29.3 87.8  
150 159.3 0.0 351.2

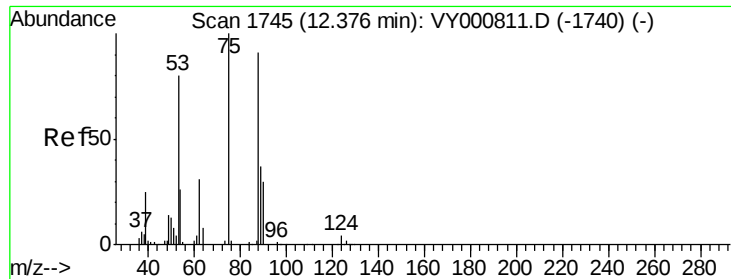


#76

1,2,3-Trichloropropane  
Concen: 45.282 ug/l  
RT: 12.47 min Scan# 1761  
Delta R.T. -0.16 min  
Lab File: VY000960.D  
Acq: 16 Dec 2019 17:18

Tgt Ion: 75 Resp: 86513  
Ion Ratio Lower Upper  
75 100  
77 2.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 88.947 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. 0.10 min

Lab File: VY000960.D

Acq: 16 Dec 2019 17:18

Instrument :

MSVOA\_Y

ClientSampleId :

178K-SB6

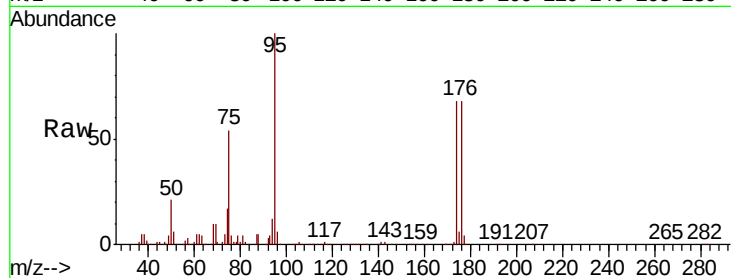
Tgt Ion: 75 Resp: 86513

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

89 0.0 33.6 50.4#



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

