

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY121619\  
 Data File : VY000955.D  
 Acq On : 16 Dec 2019 15:27  
 Operator : SY/MD  
 Sample : K6317-01  
 Misc : 7.72G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 178K-SB1

Quant Time: Dec 17 06:05:43 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  | 244859   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 453588   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 411087   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 184011   | 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   | 146911   | 56.46 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 133517   | 50.51 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 50) Toluene-d8              | 10.18 | 98   | 539596   | 51.06 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 62) 4-Bromofluorobenzene    | 12.47 | 95   | 181704   | 45.78 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |

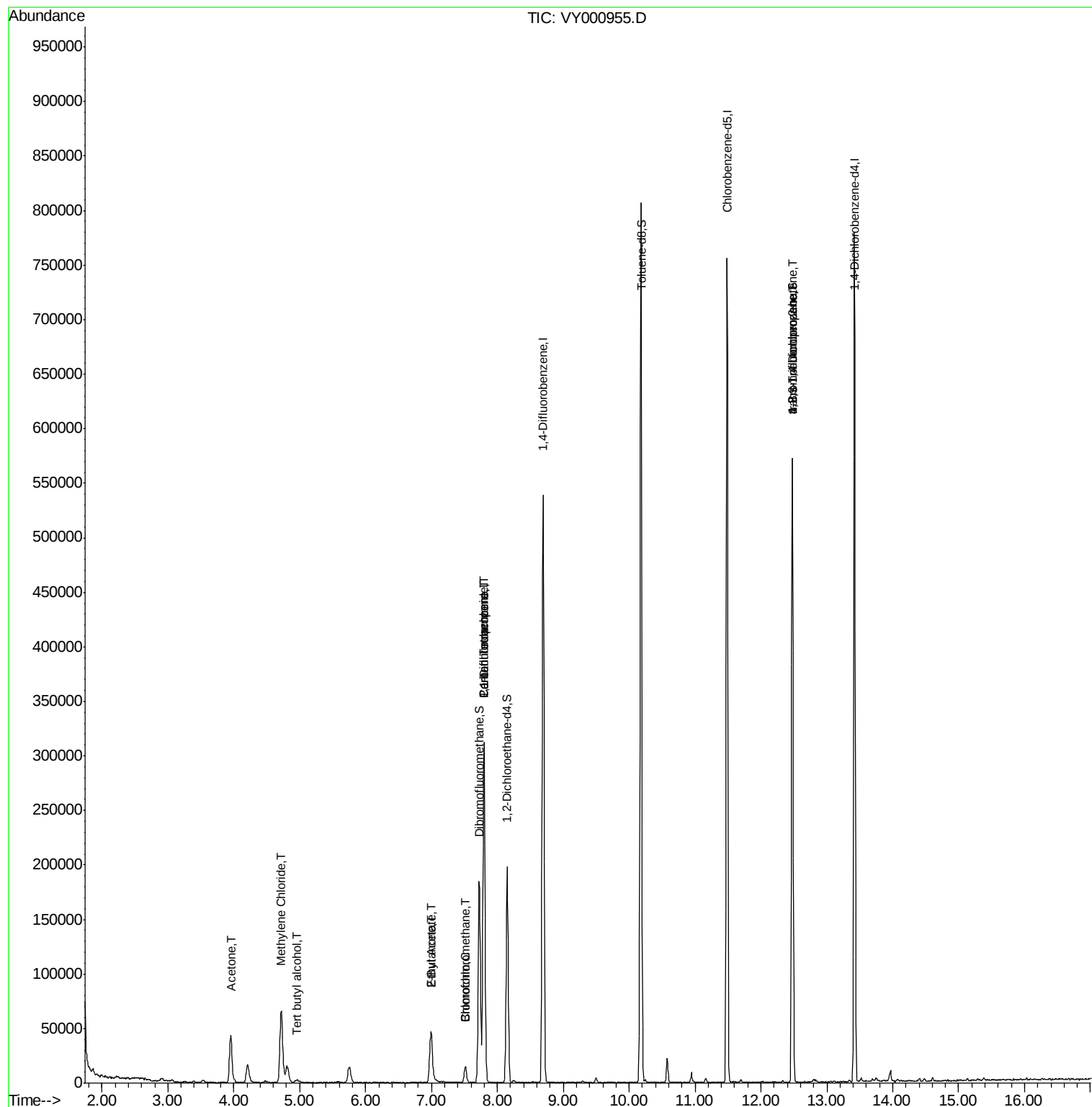
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.66  | 94   | 136      | Below Cal | #      | 71     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 4811     | 18.379    | ug/l # | 88     |
| 16) Acetone                    | 3.96  | 43   | 69599    | 116.609   | ug/l   | 97     |
| 20) Methylene Chloride         | 4.72  | 84   | 50537    | 16.063    | ug/l   | 90     |
| 25) 2-Butanone                 | 7.00  | 43   | 20127    | 18.255    | ug/l   | 99     |
| 28) Bromochloromethane         | 7.51  | 49   | 1188     | 2.612     | ug/l # | 15     |
| 30) Chloroform                 | 7.52  | 83   | 14240    | 2.722     | ug/l   | 94     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 19434    | 4.309     | ug/l # | 49     |
| 37) Ethyl Acetate              | 7.00  | 43   | 20127    | 7.729     | ug/l # | 78     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 22897    | 5.701     | ug/l # | 13     |
| 76) 1,2,3-Trichloropropane     | 12.47 | 75   | 93501    | 44.848    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.47 | 75   | 93501    | 88.095    | ug/l # | 17     |

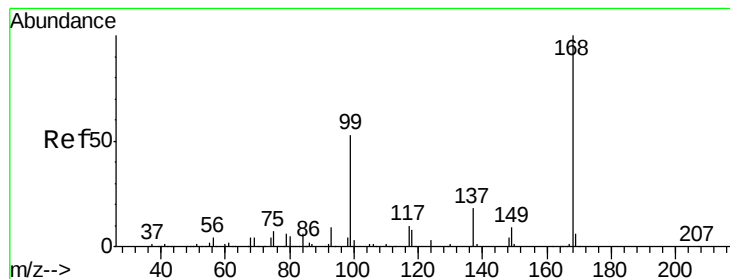
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY121619\  
Data File : VY000955.D  
Acq On : 16 Dec 2019 15:27  
Operator : SY/MD  
Sample : K6317-01  
Misc : 7.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB1

Quant Time: Dec 17 05:27:51 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

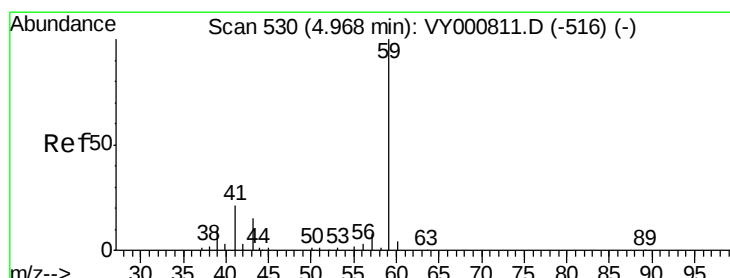
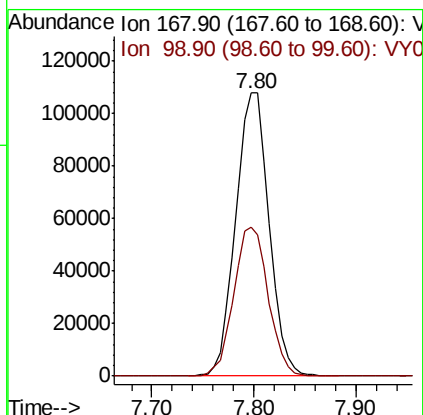
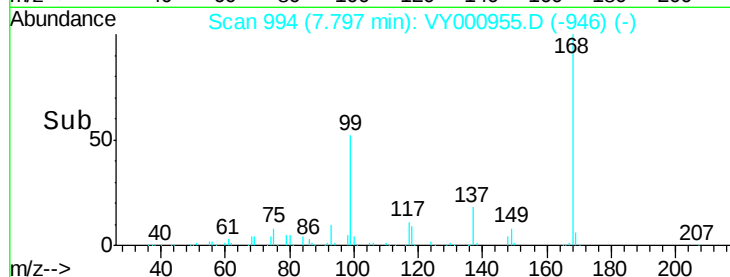
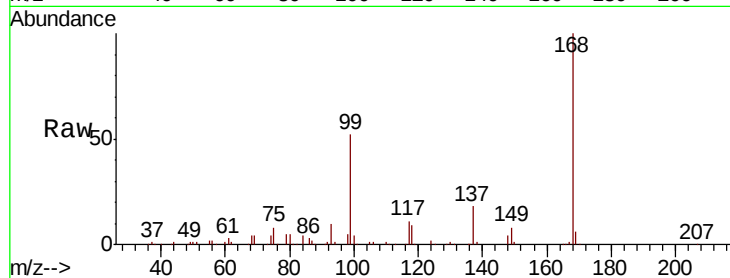




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.01 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

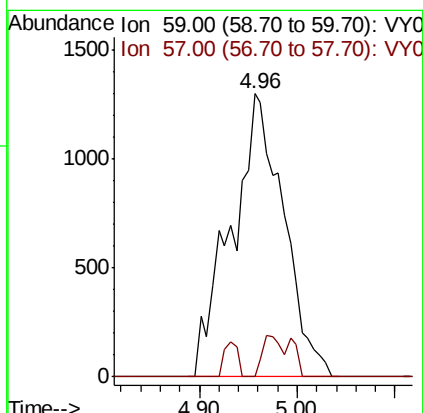
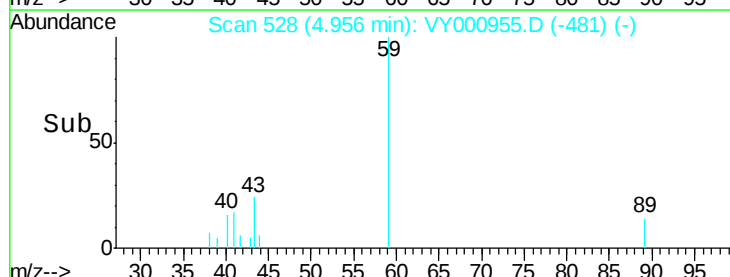
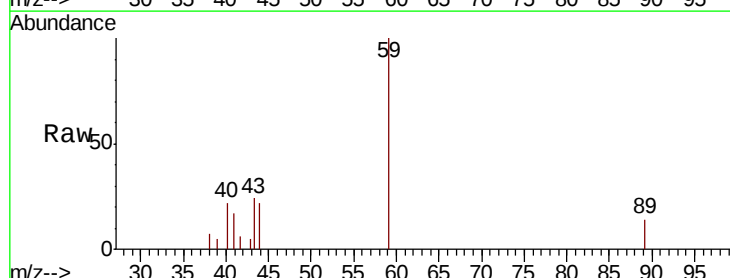
Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB1

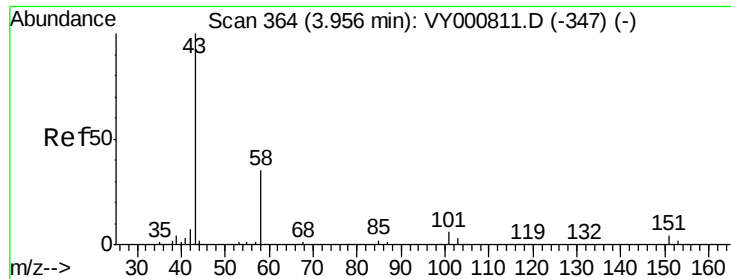
Tgt Ion: 168 Resp: 244859  
Ion Ratio Lower Upper  
168 100  
99 52.5 45.0 67.6



#11  
Tert butyl alcohol  
Concen: 18.379 ug/l  
RT: 4.96 min Scan# 528  
Delta R.T. -0.01 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

Tgt Ion: 59 Resp: 4811  
Ion Ratio Lower Upper  
59 100  
57 5.4 7.8 11.6#





#16

Acetone

Concen: 116.609 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VY000955.D

Acq: 16 Dec 2019 15:27

Instrument :

MSVOA\_Y

ClientSampleId :

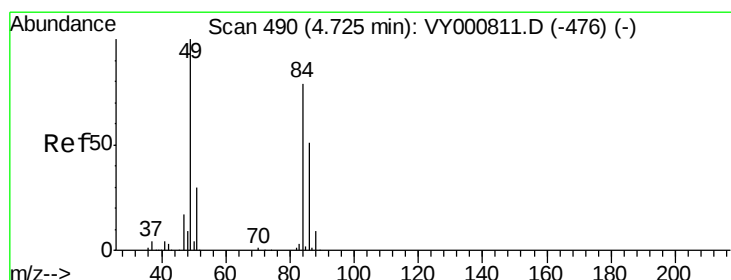
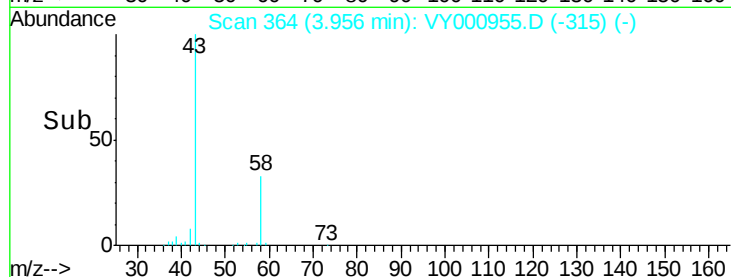
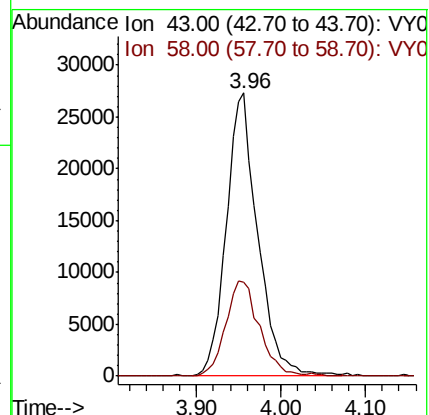
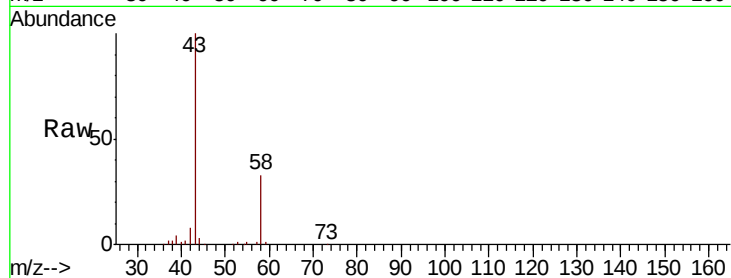
178K-SB1

Tgt Ion: 43 Resp: 69599

Ion Ratio Lower Upper

43 100

58 33.0 28.0 42.0



#20

Methylene Chloride

Concen: 16.063 ug/l

RT: 4.72 min Scan# 490

Delta R.T. -0.00 min

Lab File: VY000955.D

Acq: 16 Dec 2019 15:27

Tgt Ion: 84 Resp: 50537

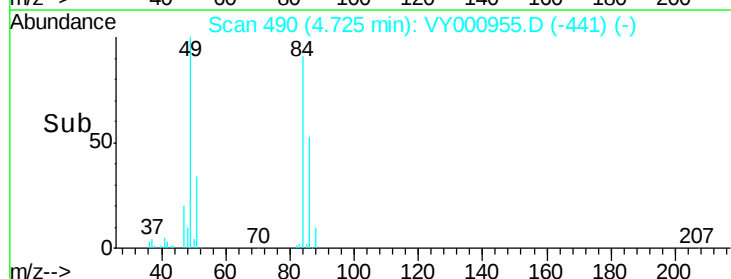
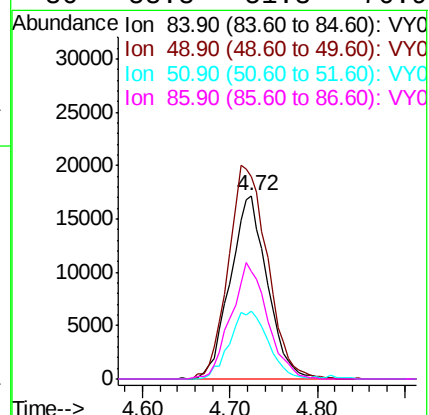
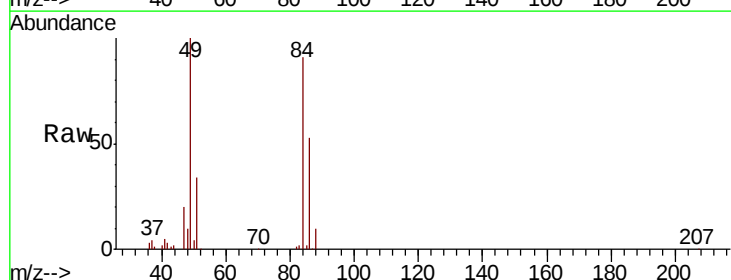
Ion Ratio Lower Upper

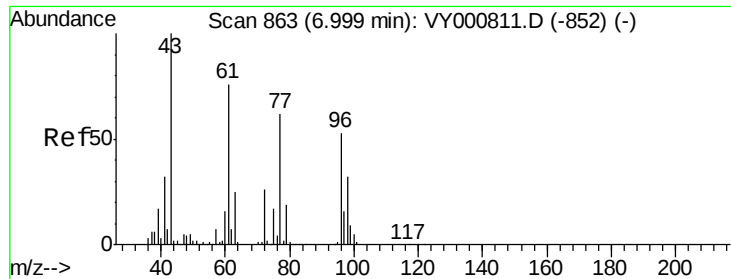
84 100

49 110.1 101.3 151.9

51 36.6 30.6 45.8

86 58.8 51.3 76.9





#25

2-Butanone

Concen: 18.255 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.00 min

Lab File: VY000955.D

Acq: 16 Dec 2019 15:27

Instrument :

MSVOA\_Y

ClientSampleId :

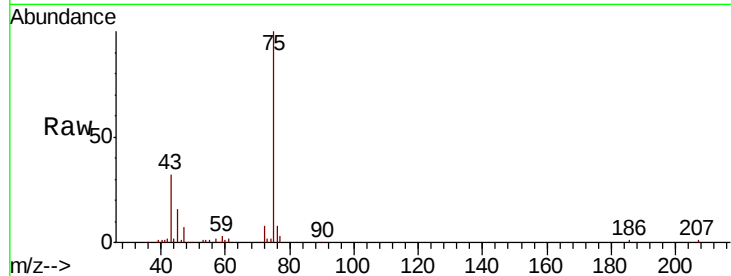
178K-SB1

Tgt Ion: 43 Resp: 20127

Ion Ratio Lower Upper

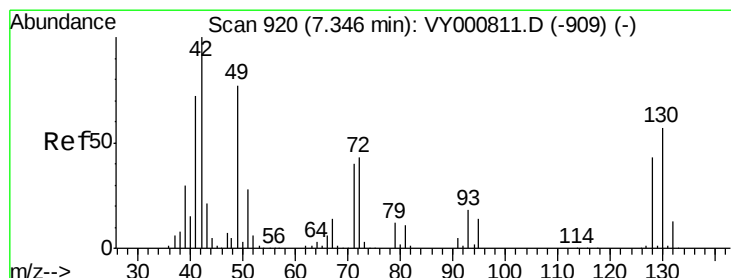
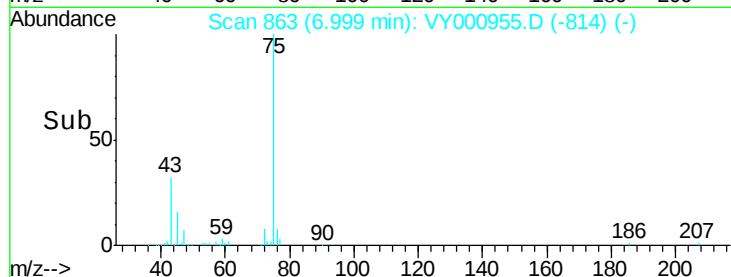
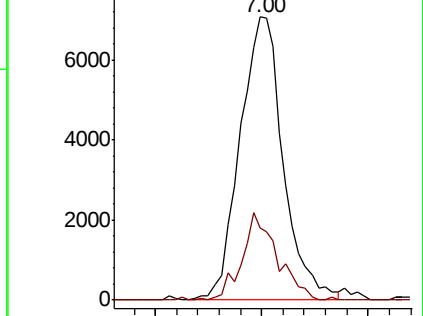
43 100

72 25.6 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: 2.612 ug/l

RT: 7.51 min Scan# 947

Delta R.T. 0.16 min

Lab File: VY000955.D

Acq: 16 Dec 2019 15:27

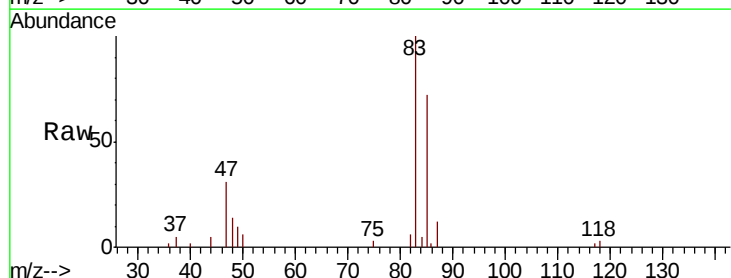
Tgt Ion: 49 Resp: 1188

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

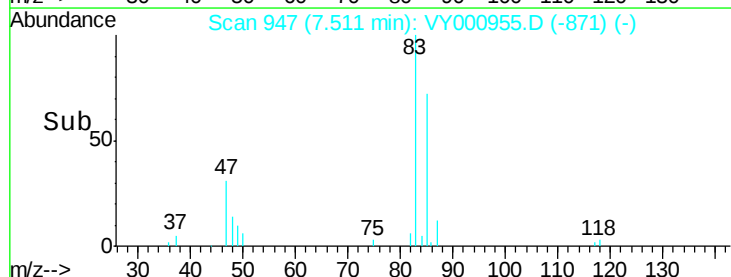
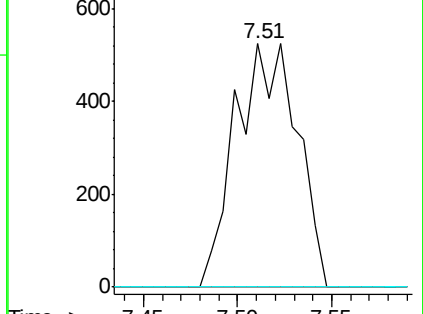
130 0.0 58.7 88.1#

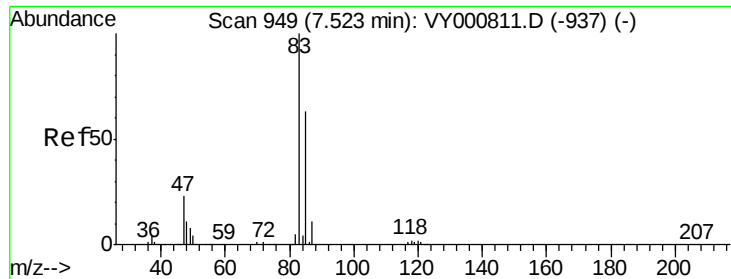


Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

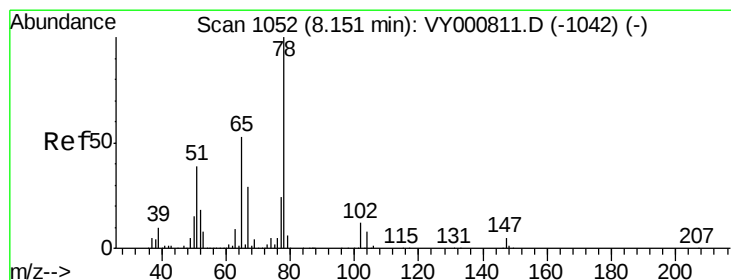
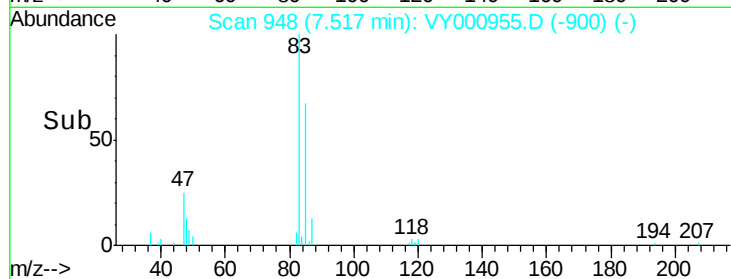
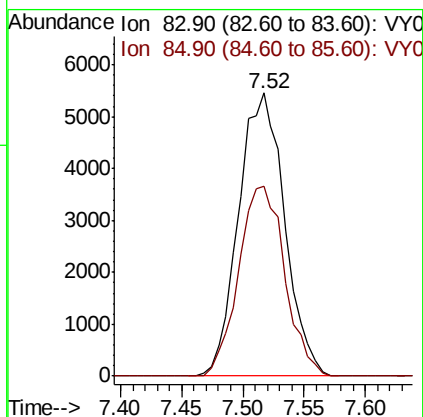
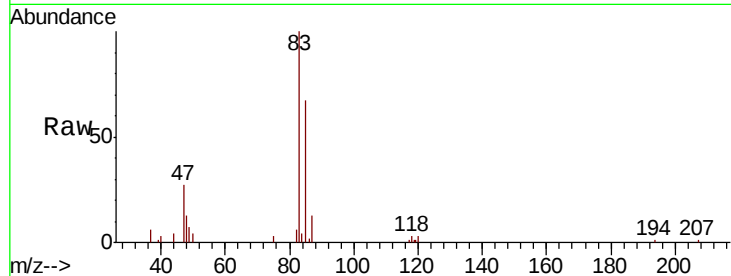




#30  
Chloroform  
Concen: 2.722 ug/l  
RT: 7.52 min Scan# 948  
Delta R.T. -0.01 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

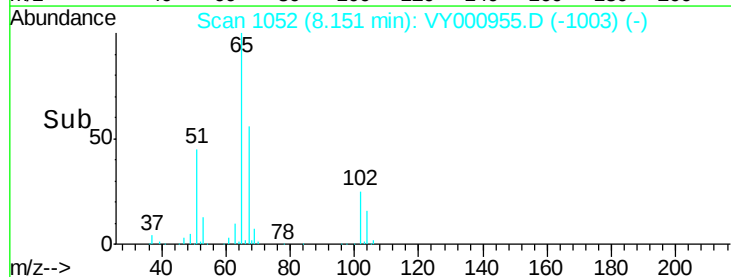
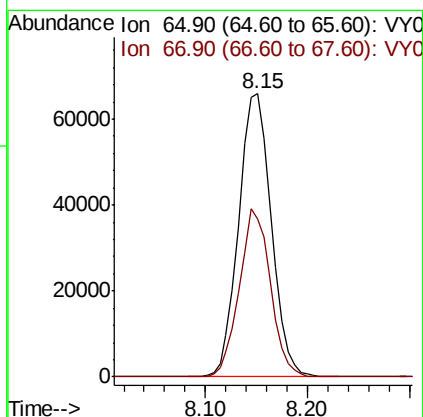
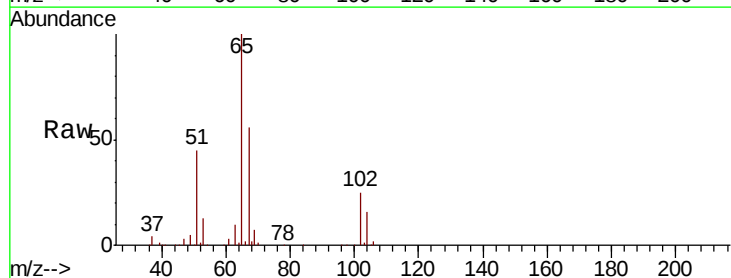
Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB1

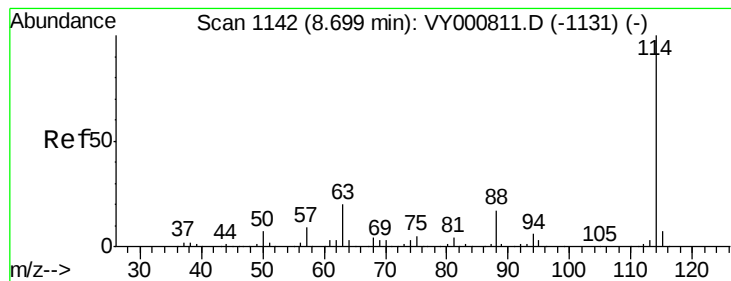
Tgt Ion: 83 Resp: 14240  
Ion Ratio Lower Upper  
83 100  
85 67.3 50.4 75.6



#33  
1,2-Dichloroethane-d4  
Concen: 56.464 ug/l  
RT: 8.15 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

Tgt Ion: 65 Resp: 146911  
Ion Ratio Lower Upper  
65 100  
67 56.5 0.0 112.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY000955.D

Acq: 16 Dec 2019 15:27

Instrument :

MSVOA\_Y

ClientSampleId :

178K-SB1

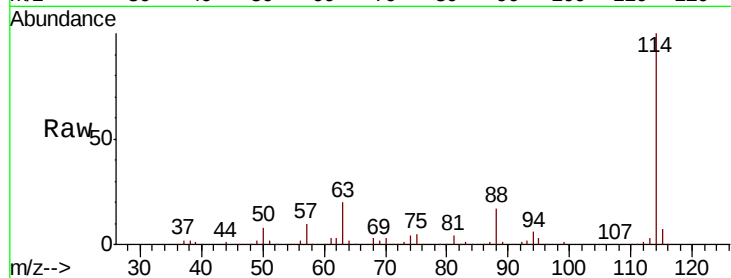
Tgt Ion:114 Resp: 453588

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

88 16.8 0.0 33.2

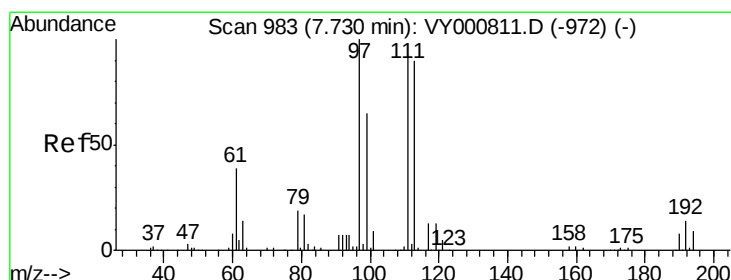
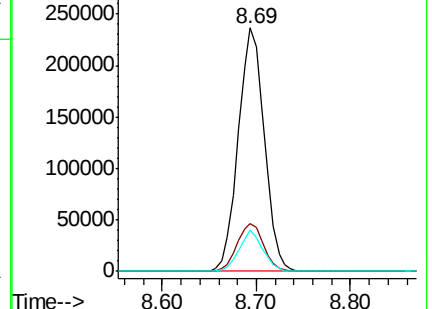
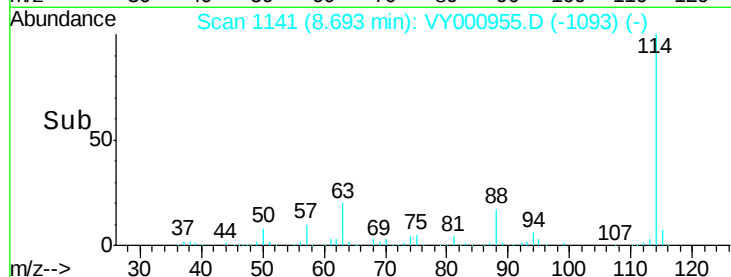


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

8.69



#35

Dibromofluoromethane

Concen: 50.508 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY000955.D

Acq: 16 Dec 2019 15:27

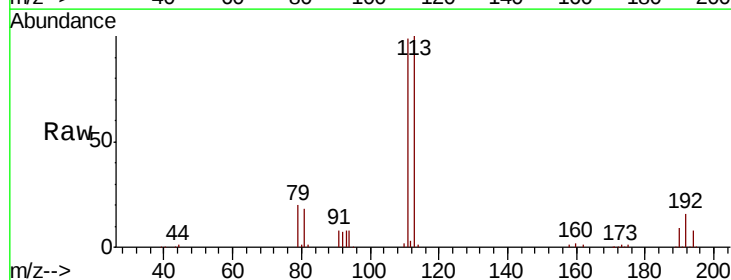
Tgt Ion:113 Resp: 133517

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

192 17.8 14.2 21.2

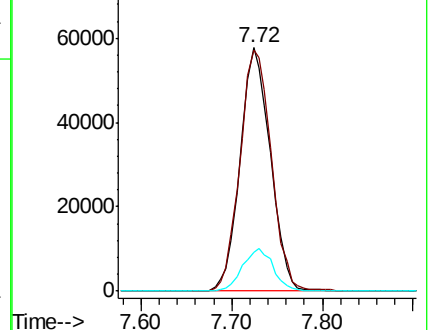
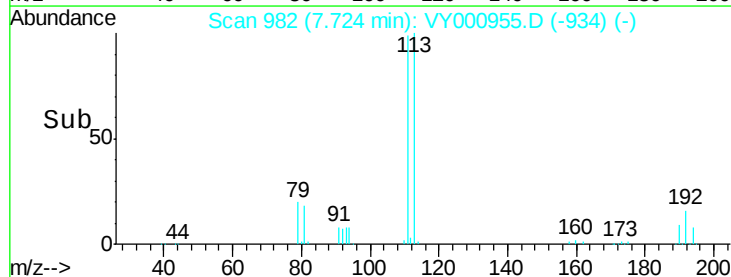


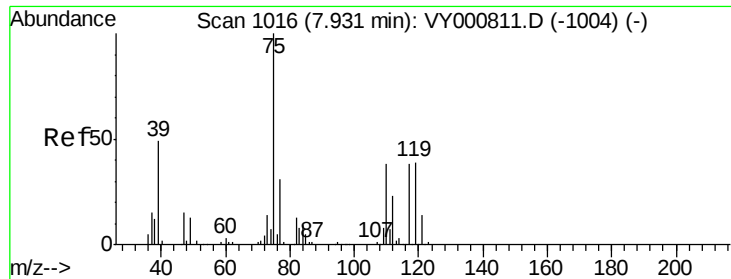
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.72

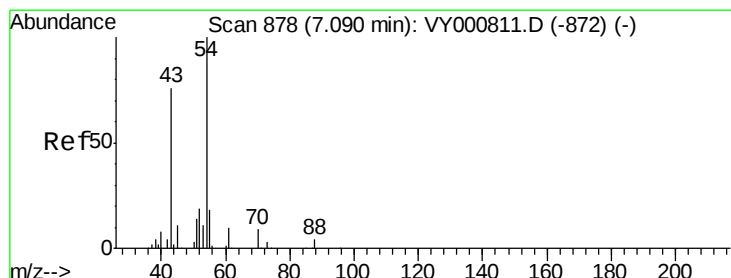
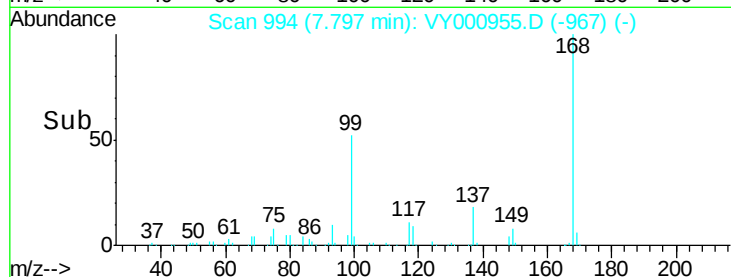
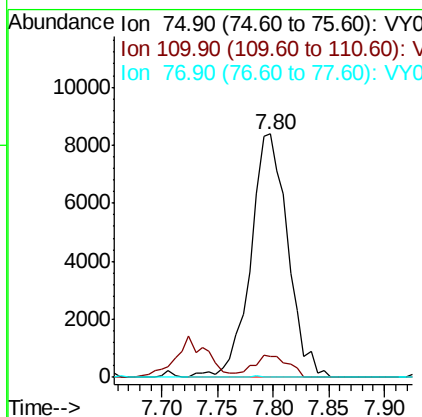
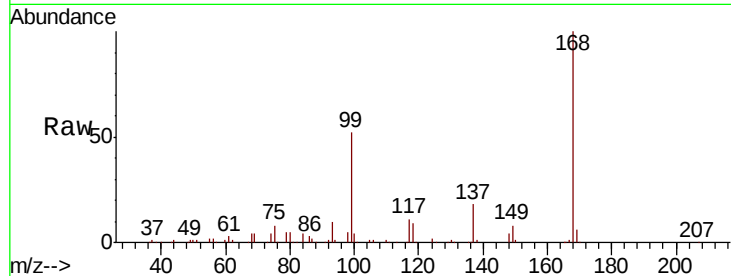




#36  
 1,1-Dichloropropene  
 Concen: 4.309 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY000955.D  
 Acq: 16 Dec 2019 15:27

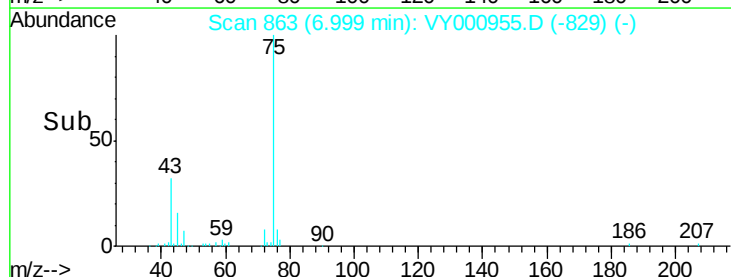
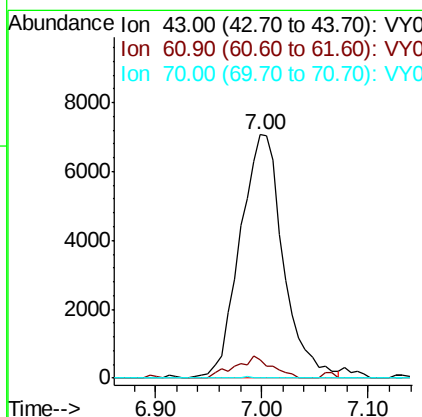
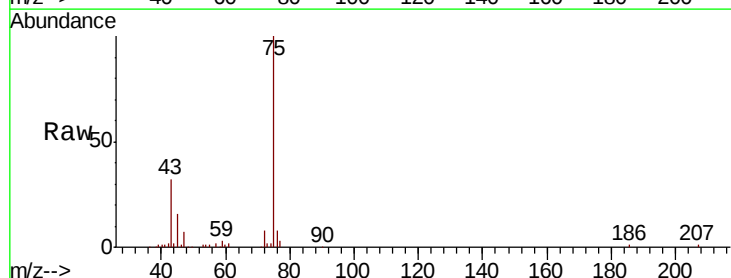
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 178K-SB1

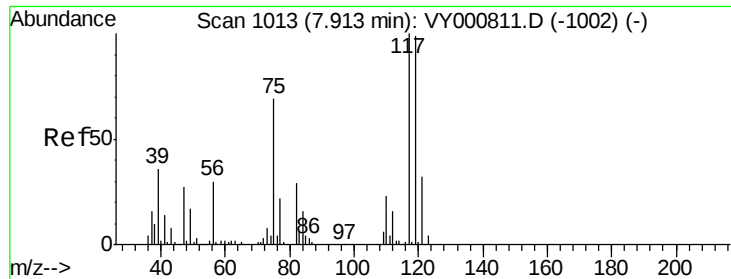
Tgt Ion: 75 Resp: 19434  
 Ion Ratio Lower Upper  
 75 100  
 110 8.4 17.9 53.7#  
 77 0.1 24.7 37.1#



#37  
 Ethyl Acetate  
 Concen: 7.729 ug/l  
 RT: 7.00 min Scan# 863  
 Delta R.T. -0.09 min  
 Lab File: VY000955.D  
 Acq: 16 Dec 2019 15:27

Tgt Ion: 43 Resp: 20127  
 Ion Ratio Lower Upper  
 43 100  
 61 7.7 11.8 17.8#  
 70 0.1 8.7 13.1#

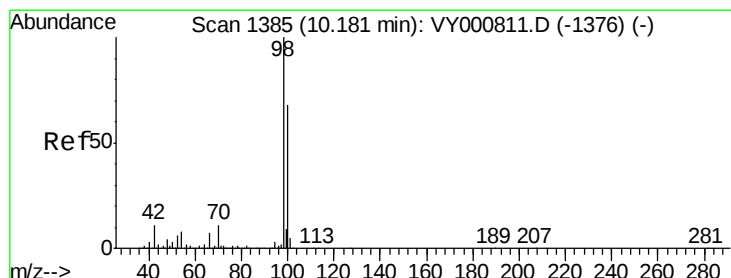
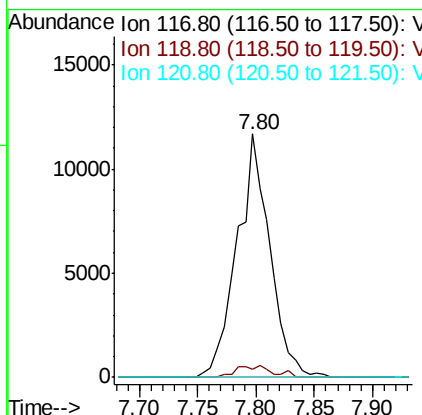
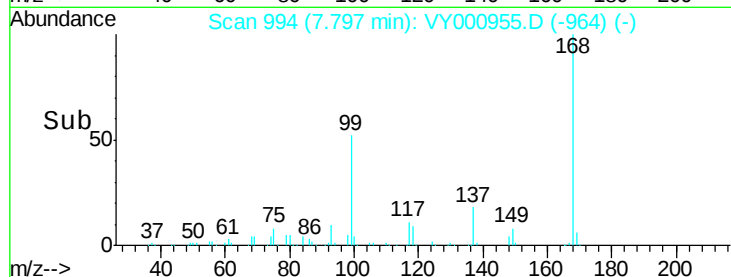
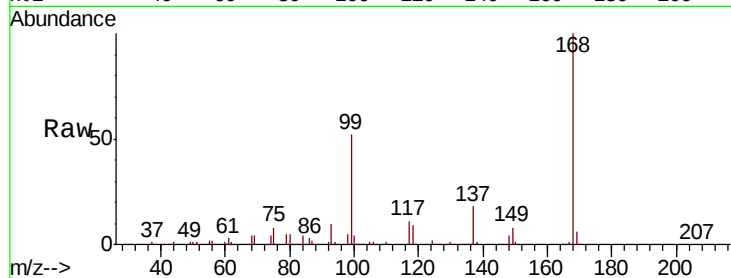




#38  
Carbon Tetrachloride  
Concen: 5.701 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.12 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

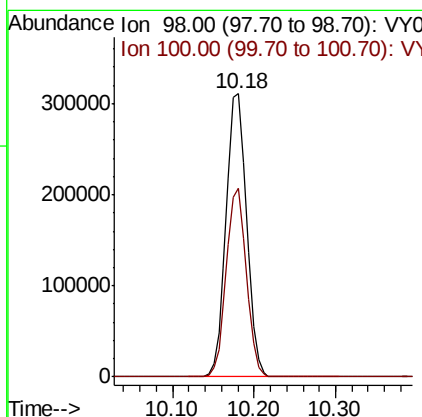
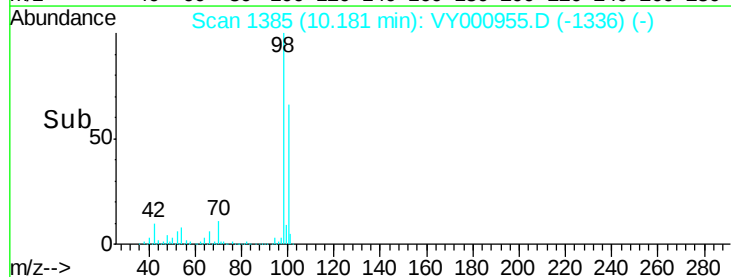
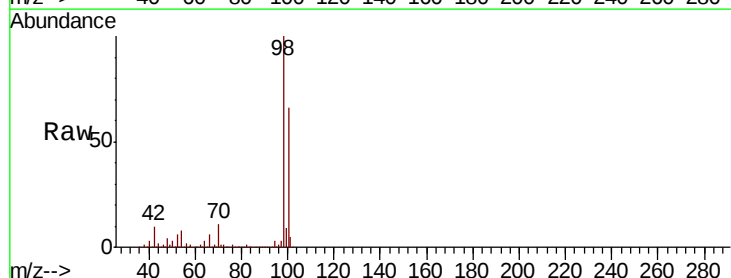
Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB1

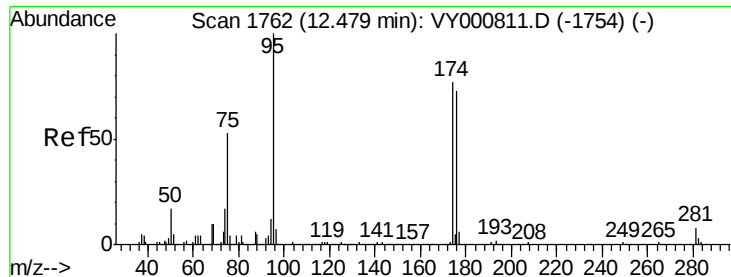
Tgt Ion: 117 Resp: 22897  
Ion Ratio Lower Upper  
117 100  
119 3.3 79.3 118.9#  
121 0.0 25.5 38.3#



#50  
Toluene-d8  
Concen: 51.056 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

Tgt Ion: 98 Resp: 539596  
Ion Ratio Lower Upper  
98 100  
100 65.0 53.1 79.7

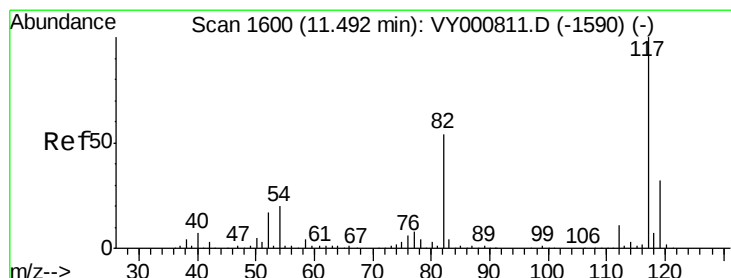
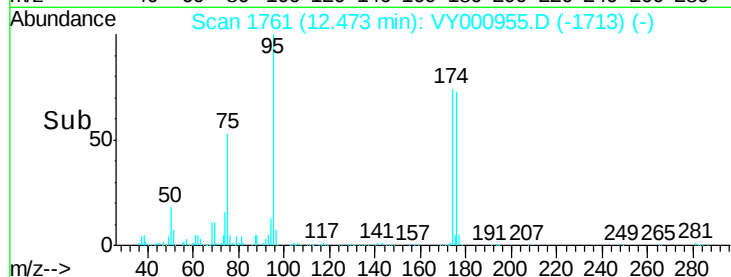
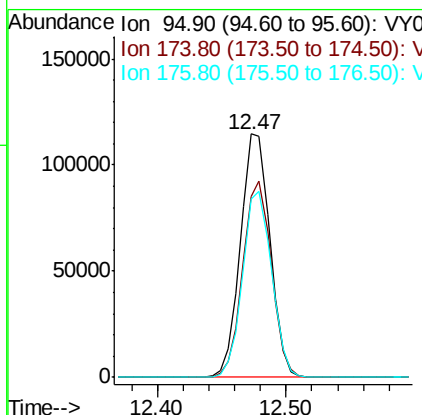
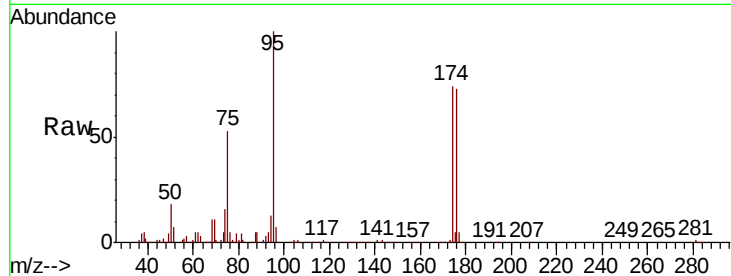




#62  
4-Bromofluorobenzene  
Concen: 45.780 ug/l  
RT: 12.47 min Scan# 1761  
Delta R.T. -0.01 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

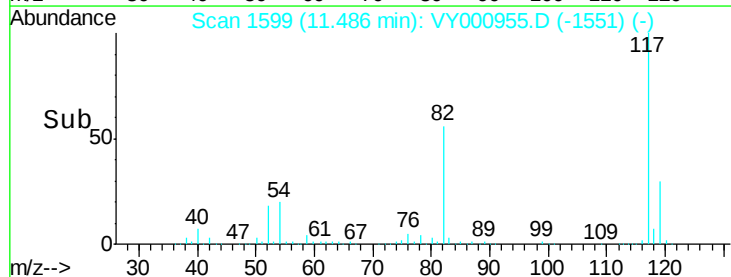
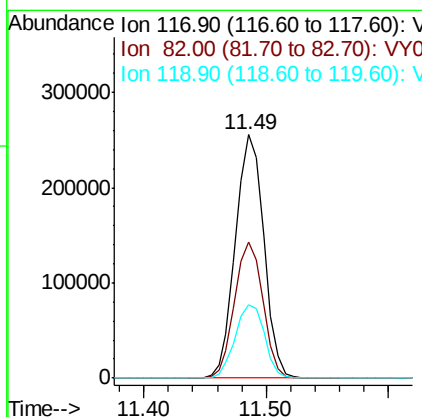
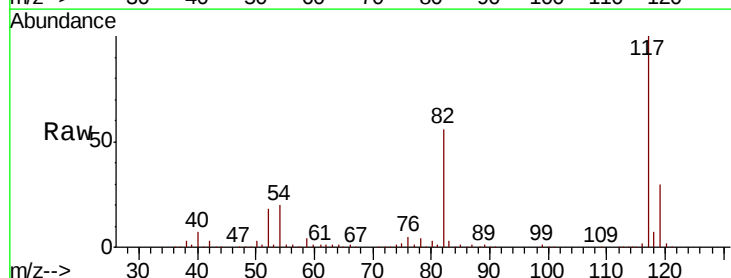
Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB1

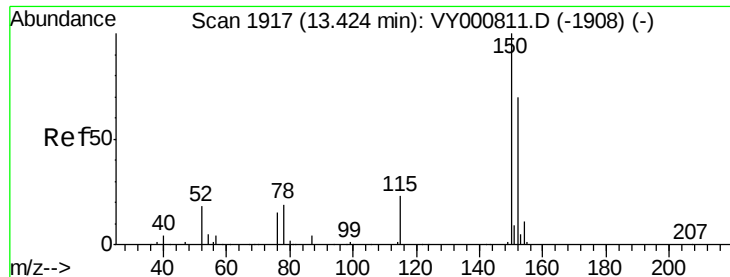
Tgt Ion: 95 Resp: 181704  
Ion Ratio Lower Upper  
95 100  
174 77.8 0.0 150.6  
176 74.8 0.0 145.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

Tgt Ion: 117 Resp: 411087  
Ion Ratio Lower Upper  
117 100  
82 55.7 43.1 64.7  
119 29.9 25.3 37.9



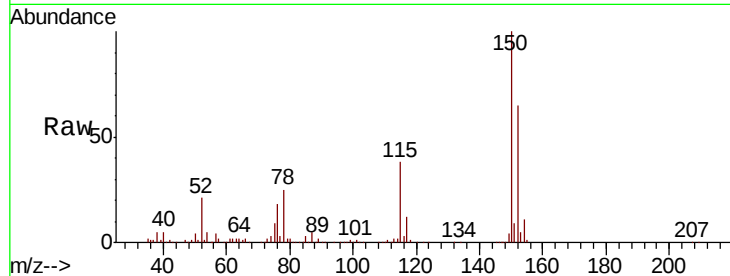


#72

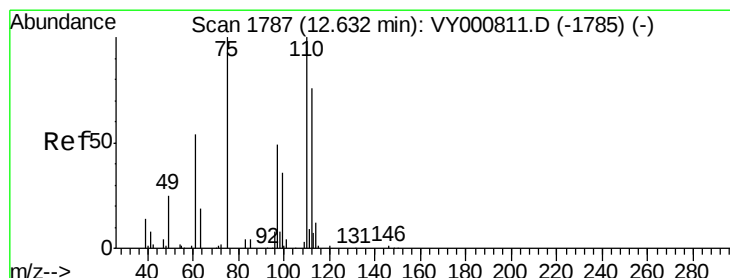
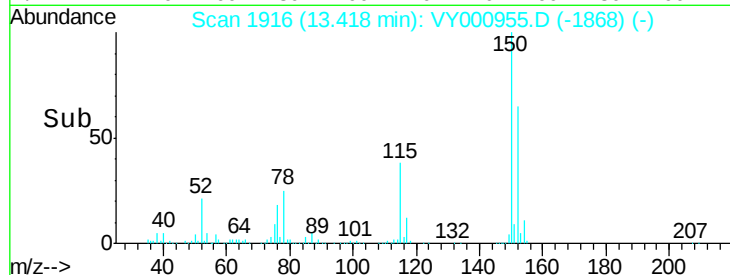
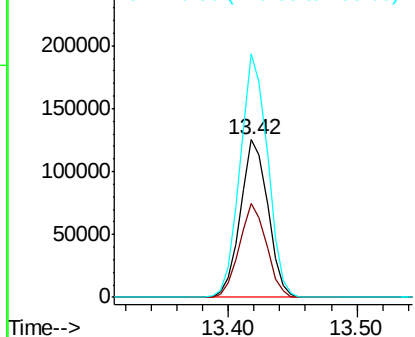
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1916  
Delta R.T. -0.01 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
178K-SB1

Tgt Ion:152 Resp: 184011  
Ion Ratio Lower Upper  
152 100  
115 59.1 29.3 87.8  
150 155.2 0.0 351.2



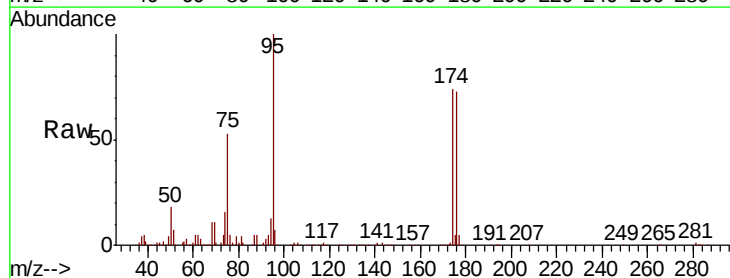
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



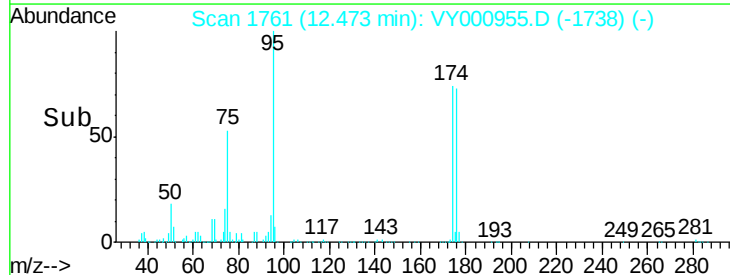
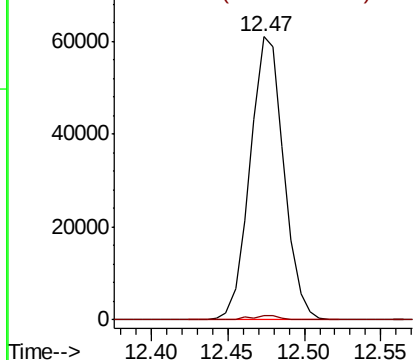
#76

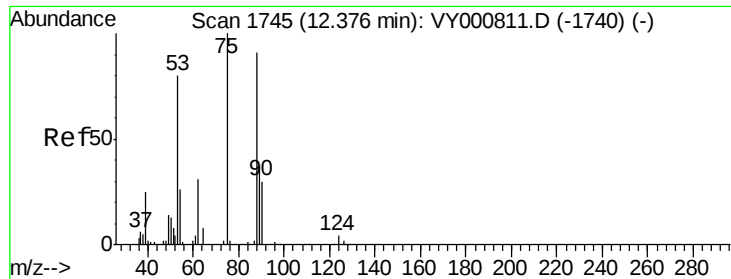
1,2,3-Trichloropropane  
Concen: 44.848 ug/l  
RT: 12.47 min Scan# 1761  
Delta R.T. -0.16 min  
Lab File: VY000955.D  
Acq: 16 Dec 2019 15:27

Tgt Ion: 75 Resp: 93501  
Ion Ratio Lower Upper  
75 100  
77 1.5 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: 88.095 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. 0.10 min

Lab File: VY000955.D

Acq: 16 Dec 2019 15:27

Instrument :

MSVOA\_Y

ClientSampleId :

178K-SB1

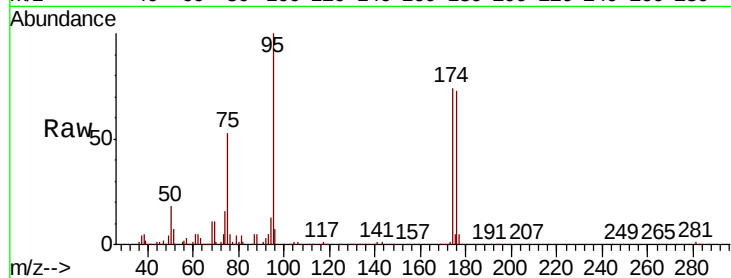
Tgt Ion: 75 Resp: 93501

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

