

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY061820\  
 Data File : VY002914.D  
 Acq On : 18 Jun 2020 12:40  
 Operator : SY/MD  
 Sample : VY0618SBL01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jun 19 04:59:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 289192   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 423129   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 390550   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 211348   | 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   | 128419   | 51.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.28% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 133021   | 53.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.28% |          |
| 50) Toluene-d8              | 10.18 | 98   | 501208   | 49.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.98%  |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 179409   | 52.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.72% |          |

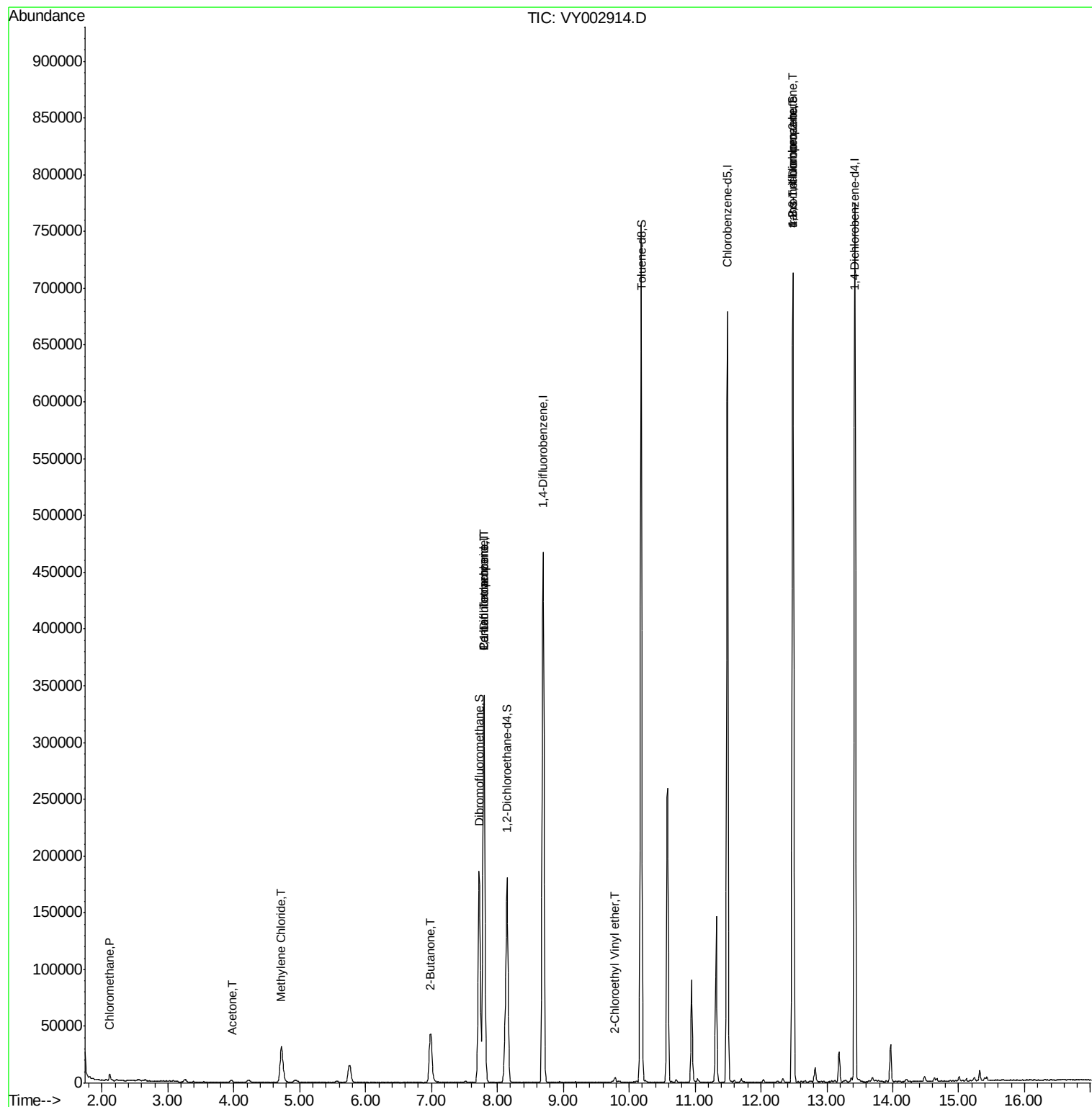
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.12  | 50   | 5705     | 2.592     | ug/l   | 96     |
| 11) Tert butyl alcohol         | 4.94  | 59   | 2916     | Below Cal | #      | 74     |
| 16) Acetone                    | 3.96  | 43   | 3565     | 6.055     | ug/l # | 88     |
| 18) Methyl Acetate             | 4.48  | 43   | 19       | Below Cal | #      | 48     |
| 20) Methylene Chloride         | 4.72  | 84   | 25821    | 8.974     | ug/l   | 95     |
| 25) 2-Butanone                 | 6.99  | 43   | 2183     | 2.380     | ug/l # | 77     |
| 36) 1,1-Dichloropropene        | 7.79  | 75   | 17575    | 4.931     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 25335    | 6.398     | ug/l # | 17     |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 2029     | 1.350     | ug/l   | 95     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 86826    | 45.593    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 86826    | 85.896    | ug/l # | 17     |

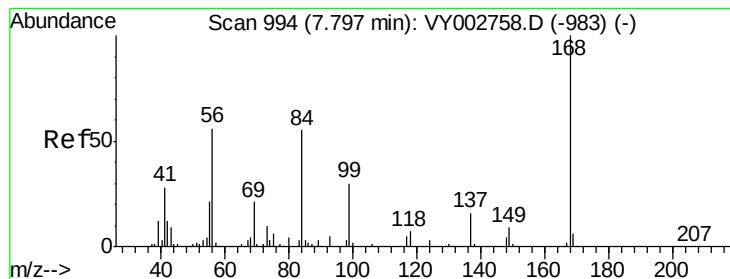
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: Jun 19 04:59:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 27 13:13:33 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: VY002914.D

Acq: 18 Jun 2020 12:40

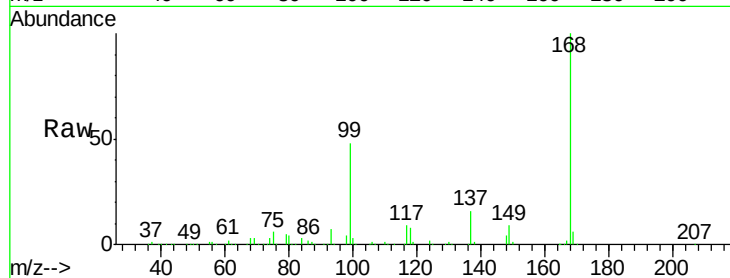
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 289192

Ion Ratio Lower Upper

168 100

99 47.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VY002758.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY002758.D (-983) (-)

7.80

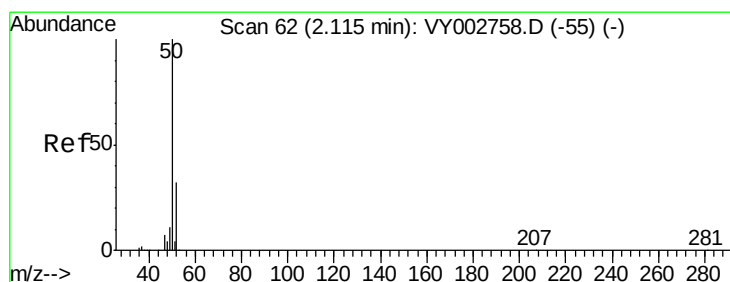
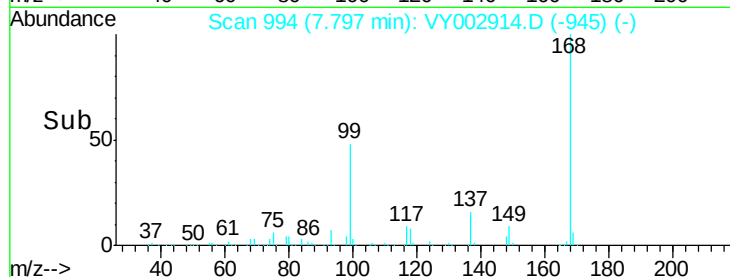
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 2.592 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY002914.D

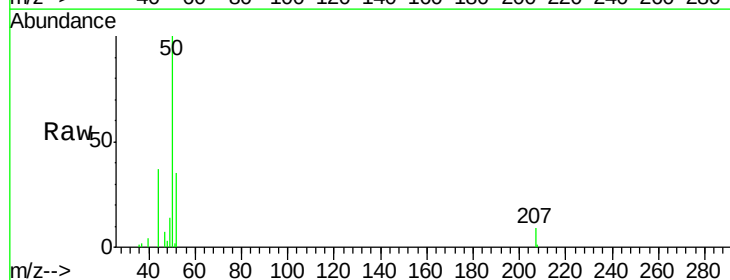
Acq: 18 Jun 2020 12:40

Tgt Ion: 50 Resp: 5705

Ion Ratio Lower Upper

50 100

52 34.6 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VY002758.D (-55) (-)

Ion 51.90 (51.60 to 52.60): VY002758.D (-55) (-)

2.12

4000

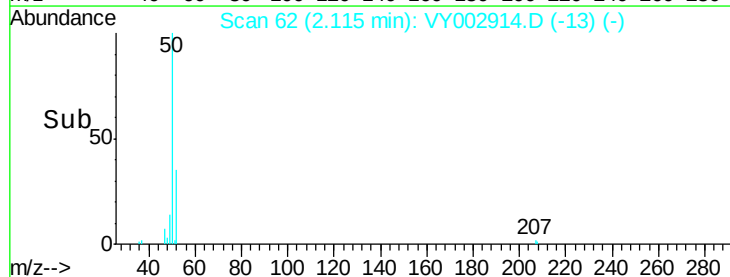
3000

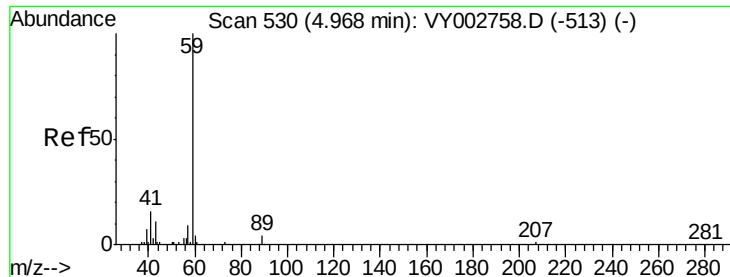
2000

1000

0

Time-->



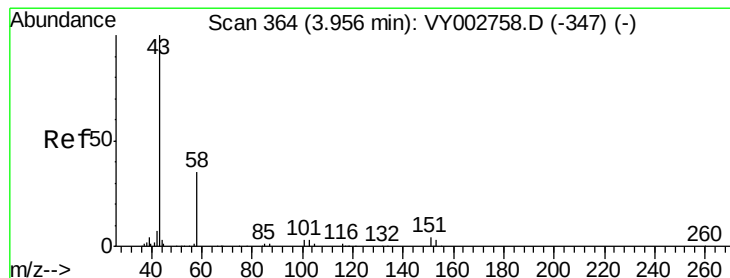
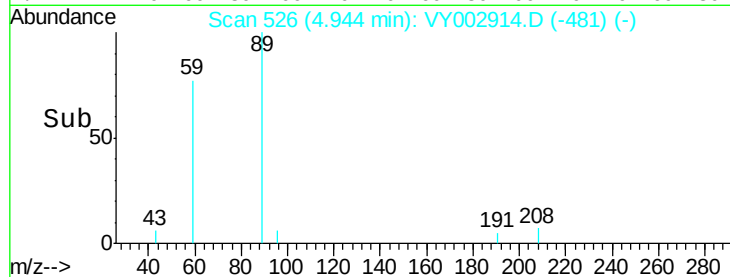
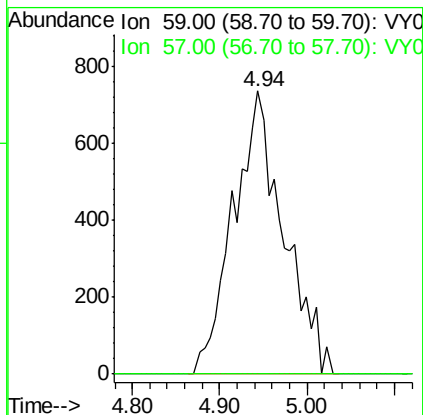
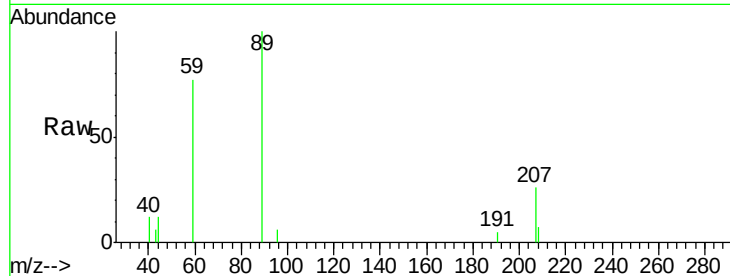


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.94 min Scan# 526  
 Delta R.T. -0.02 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

Instrument :  
 MSVOA\_Y  
 ClientSampled :

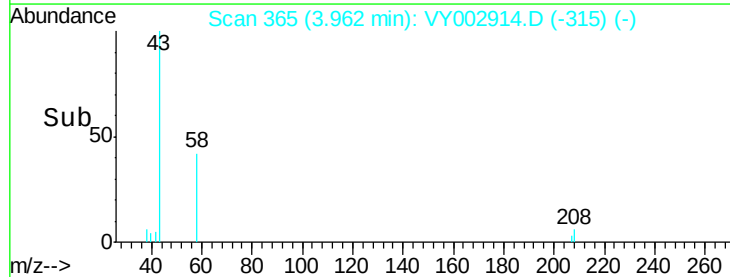
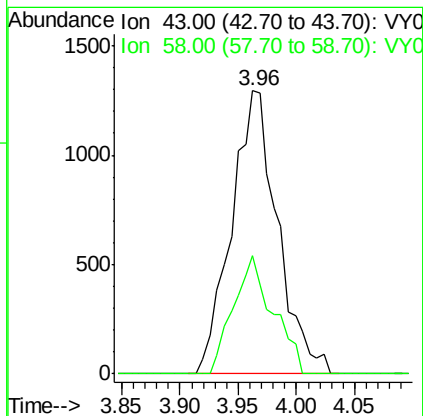
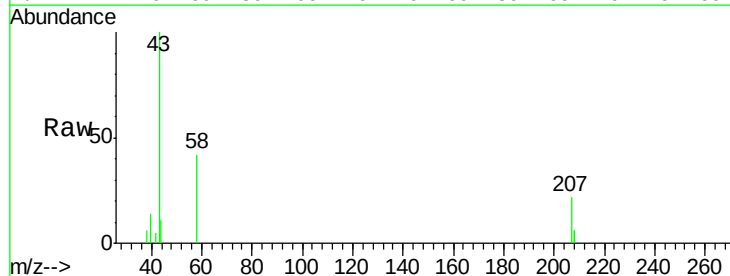
Tot Ion: 59 Resp: 2916  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.7 11.5#

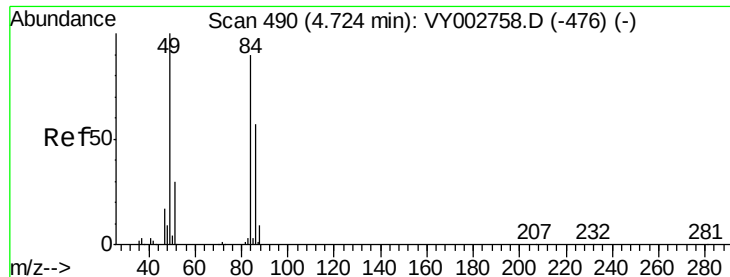


#16

Acetone  
 Concen: 6.055 ug/l  
 RT: 3.96 min Scan# 365  
 Delta R.T. 0.01 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

Tgt Ion: 43 Resp: 3565  
 Ion Ratio Lower Upper  
 43 100  
 58 41.8 27.7 41.5#

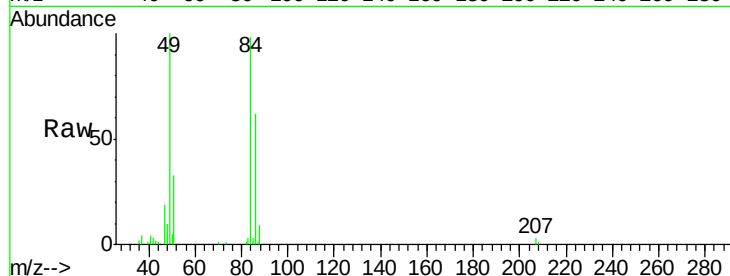




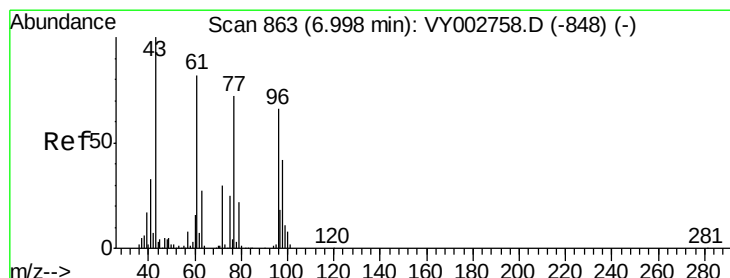
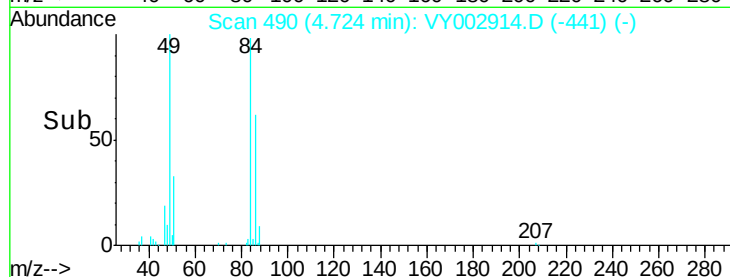
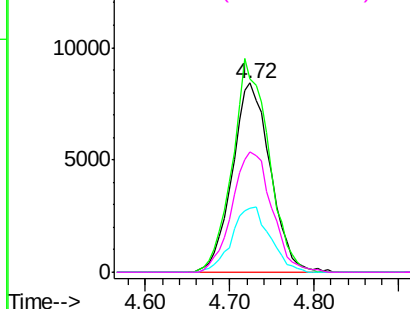
#20  
Methylene Chloride  
Concen: 8.974 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY002914.D  
Acq: 18 Jun 2020 12:40

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 84 Resp: 25821  
Ion Ratio Lower Upper  
84 100  
49 102.1 88.5 132.7  
51 33.9 26.8 40.2  
86 63.6 50.6 75.8

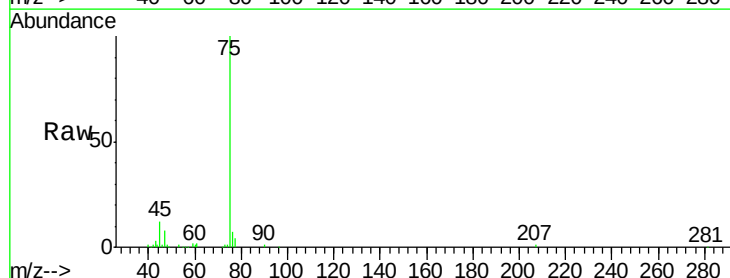


Abundance Ion 83.90 (83.60 to 84.60): VY0  
Ion 48.90 (48.60 to 49.60): VY0  
Ion 50.90 (50.60 to 51.60): VY0  
Ion 85.90 (85.60 to 86.60): VY0

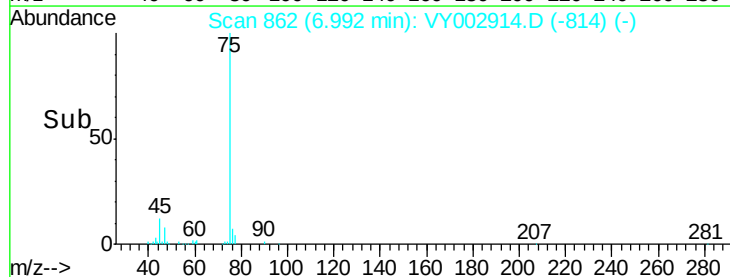
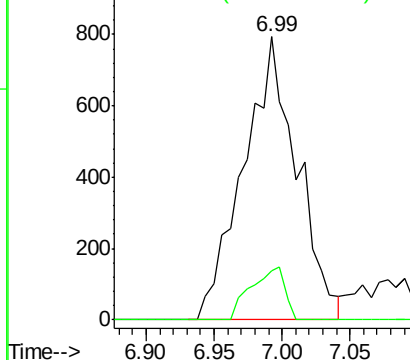


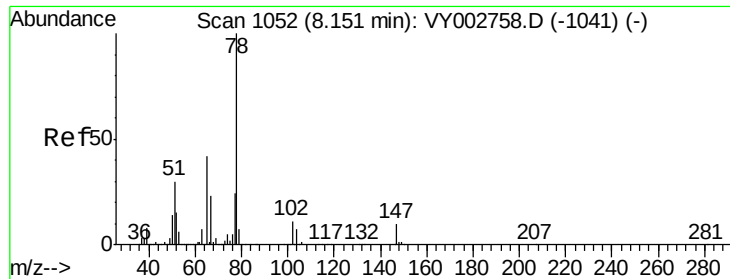
#25  
2-Butanone  
Concen: 2.380 ug/l  
RT: 6.99 min Scan# 862  
Delta R.T. -0.01 min  
Lab File: VY002914.D  
Acq: 18 Jun 2020 12:40

Tgt Ion: 43 Resp: 2183  
Ion Ratio Lower Upper  
43 100  
72 17.5 23.9 35.9#



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

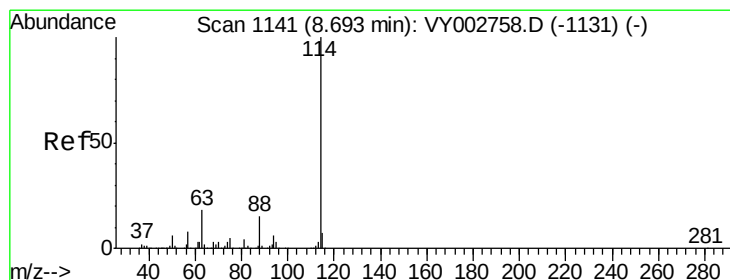
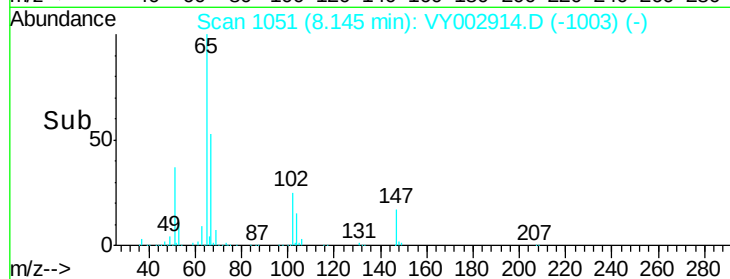
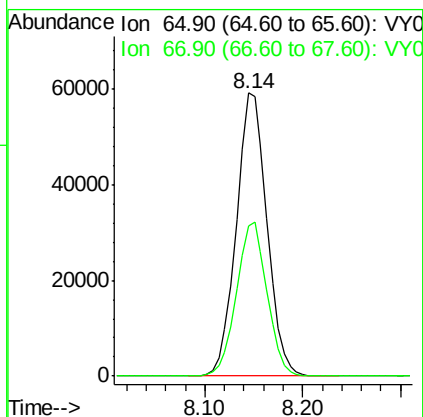
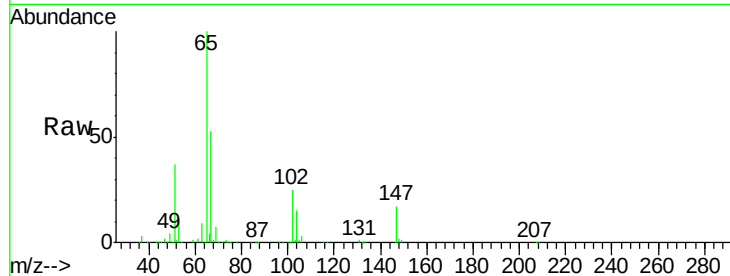




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.143 ug/l  
 RT: 8.14 min Scan# 1051  
 Delta R.T. -0.01 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

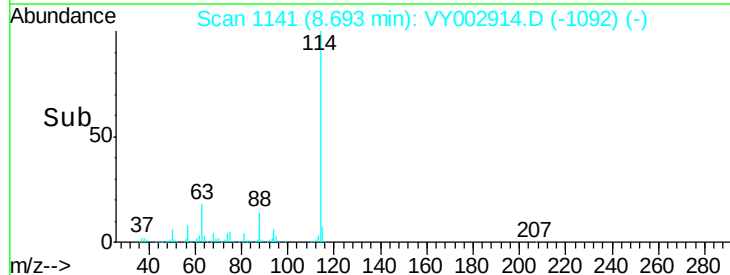
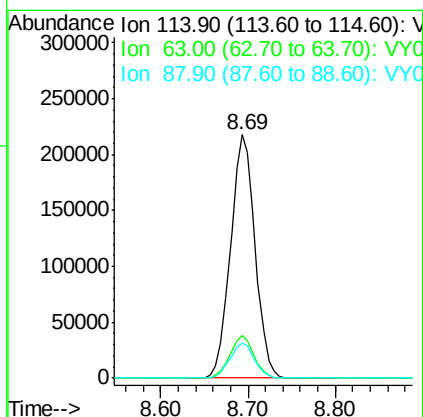
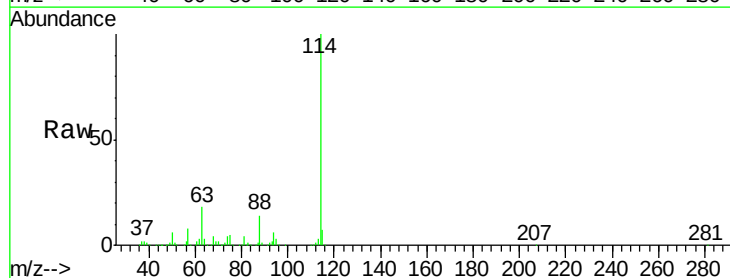
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

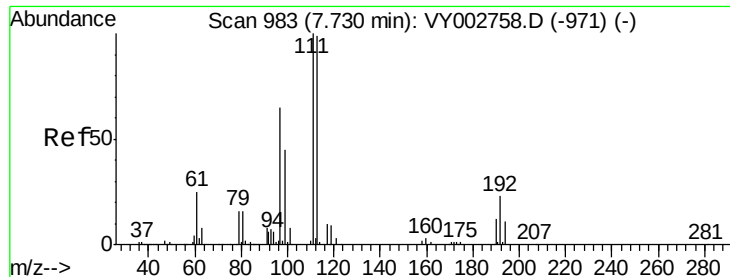
Tot Ion: 65 Resp: 128419  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 0.0 111.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. 0.00 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

Tgt Ion: 114 Resp: 423129  
 Ion Ratio Lower Upper  
 114 100  
 63 17.5 0.0 35.2  
 88 14.4 0.0 29.2

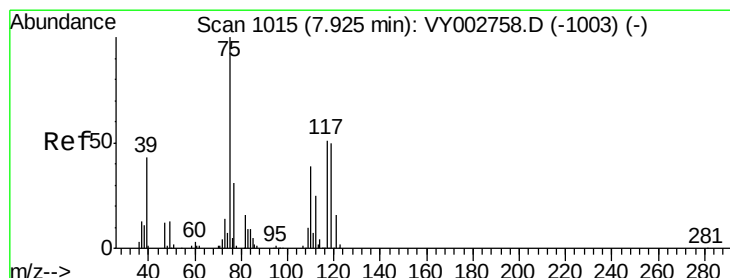
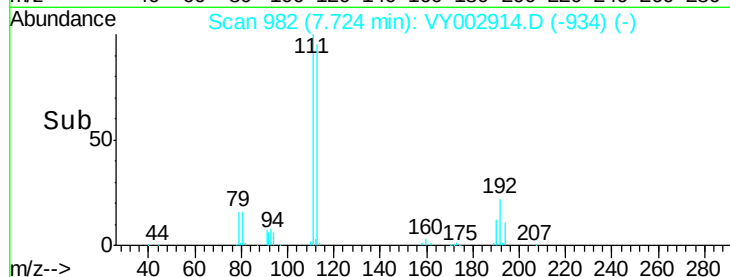
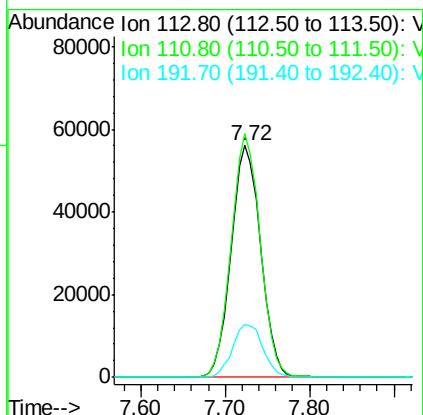
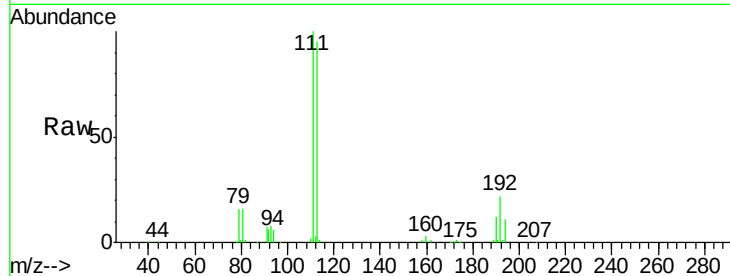




#35  
 Dibromofluoromethane  
 Concen: 53.643 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.01 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

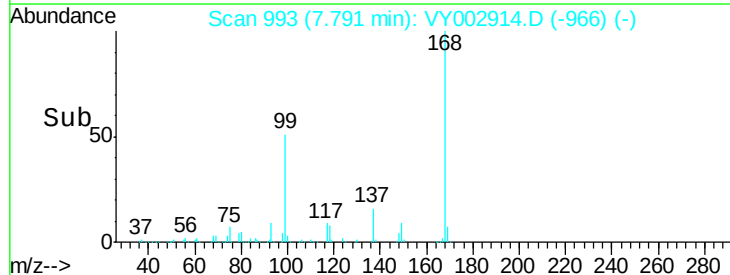
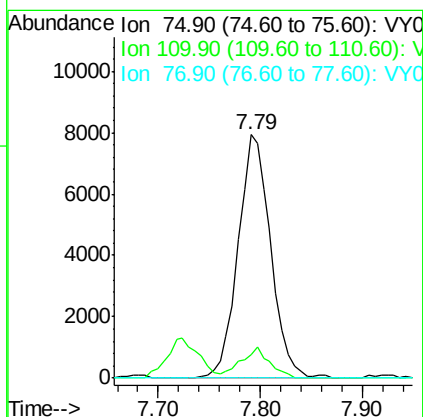
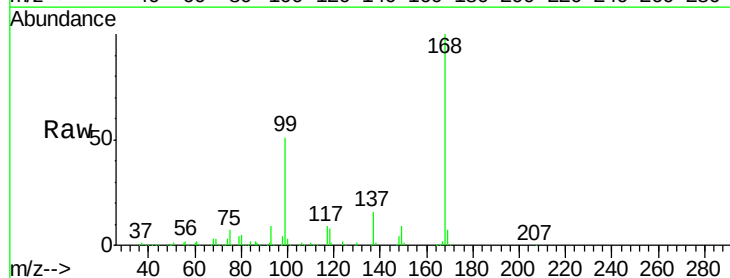
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

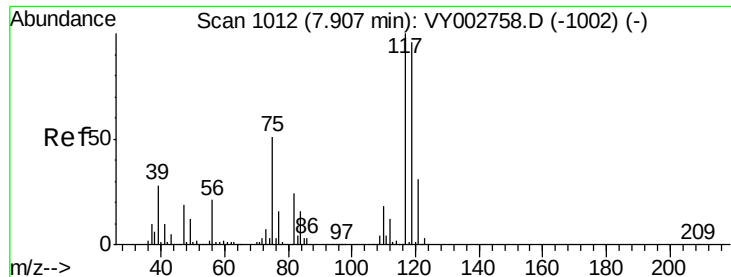
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 82.0  | 123.0 |
| 192     | 23.4  | 18.9  | 28.3  |



#36  
 1,1-Dichloropropene  
 Concen: 4.931 ug/l  
 RT: 7.79 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.0  | 19.3  | 57.9# |
| 77      | 0.0   | 24.8  | 37.2# |





#38

Carbon Tetrachloride

Concen: 6.398 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY002914.D

Acq: 18 Jun 2020 12:40

Instrument :  
MSVOA\_Y  
ClientSampleId :

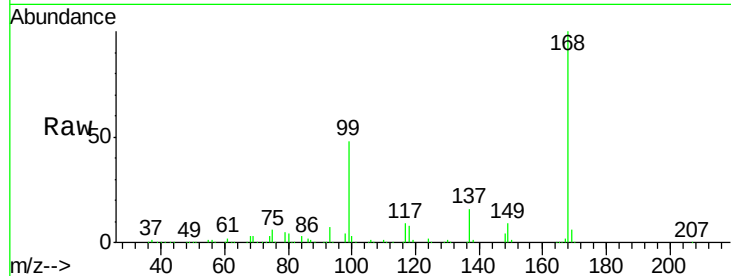
Tot Ion:117 Resp: 25335

Ion Ratio Lower Upper

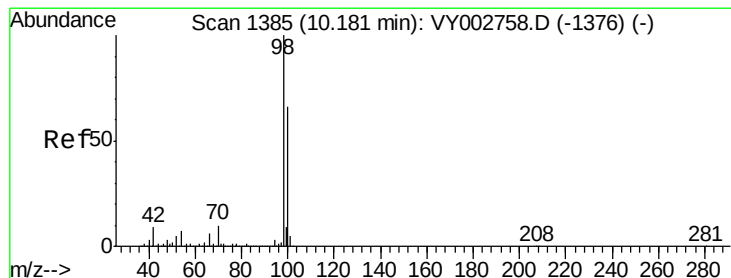
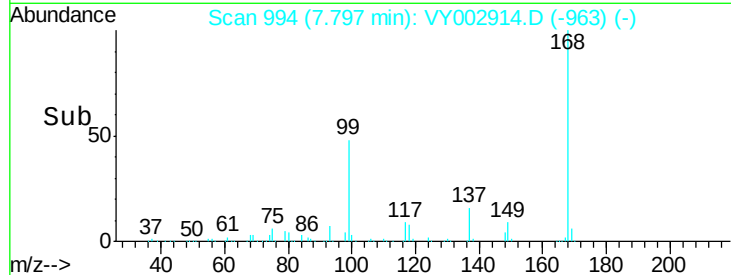
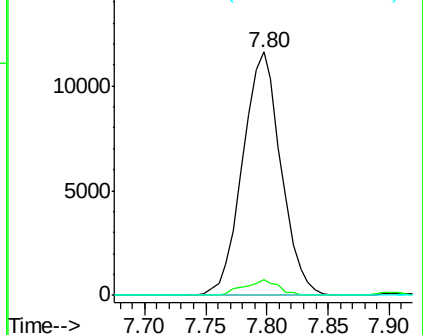
117 100

119 6.4 76.8 115.2#

121 0.0 24.8 37.2#



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



#50

Toluene-d8

Concen: 49.989 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002914.D

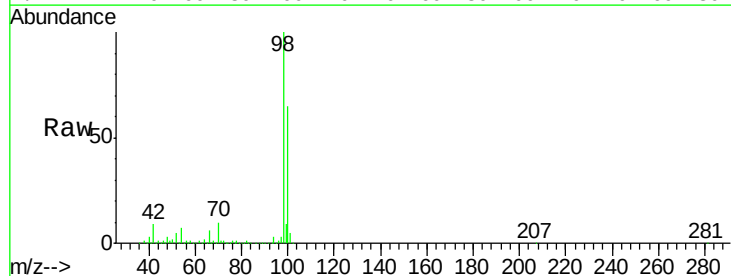
Acq: 18 Jun 2020 12:40

Tgt Ion: 98 Resp: 501208

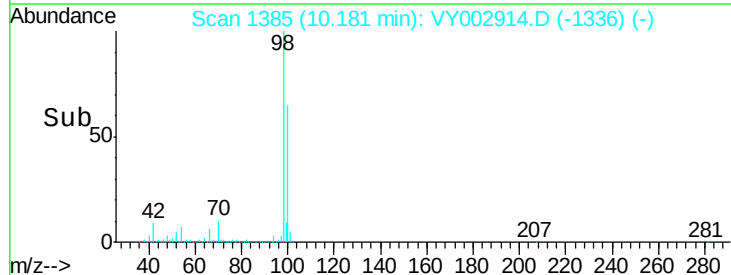
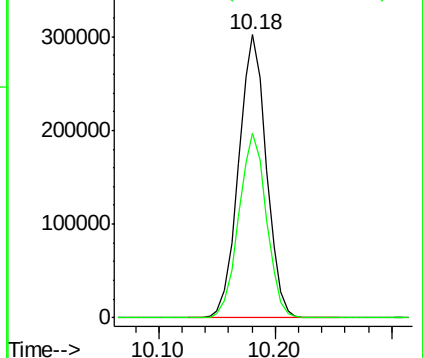
Ion Ratio Lower Upper

98 100

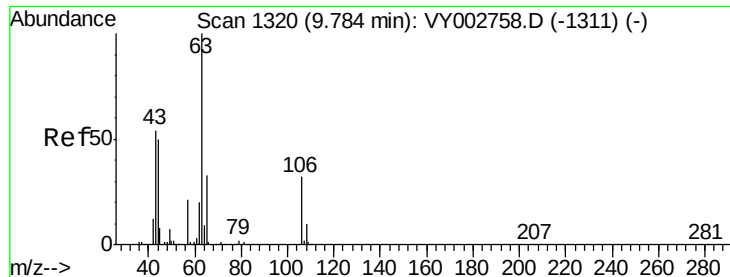
100 65.1 52.2 78.2



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



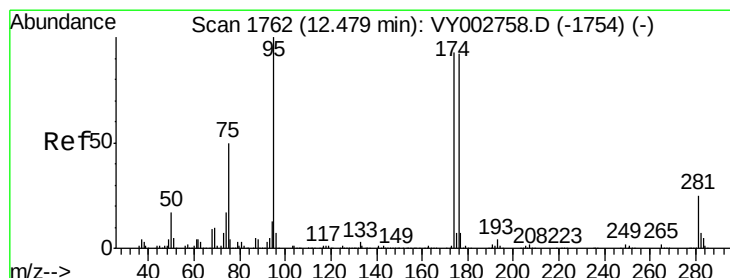
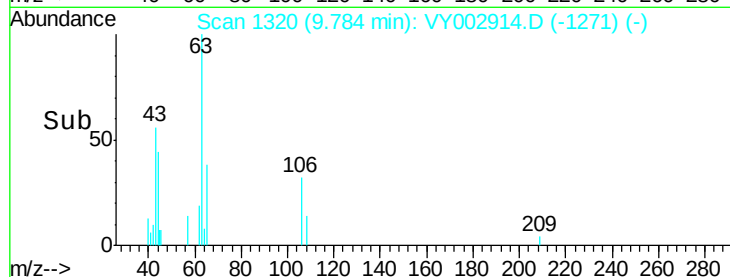
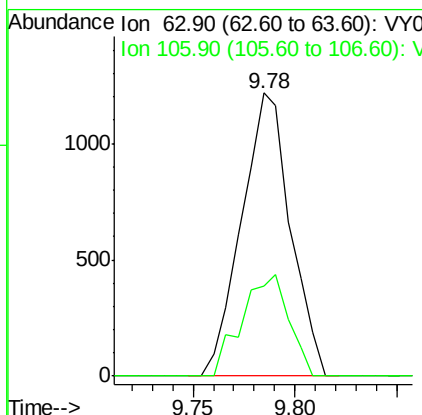
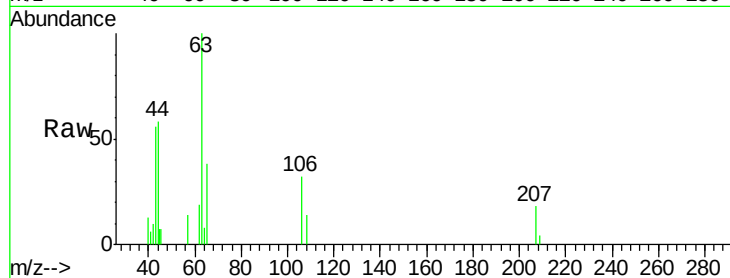




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 1.350 ug/l  
 RT: 9.78 min Scan# 1320  
 Delta R.T. 0.00 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

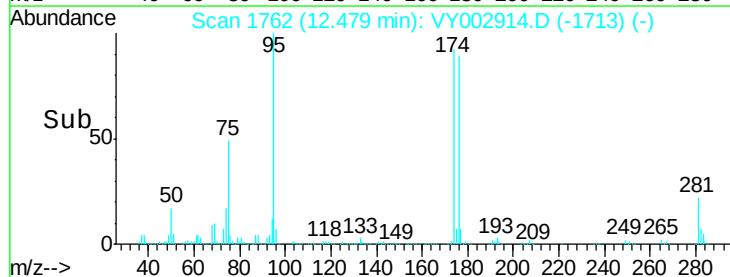
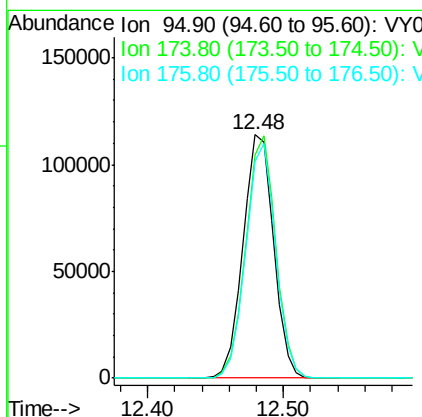
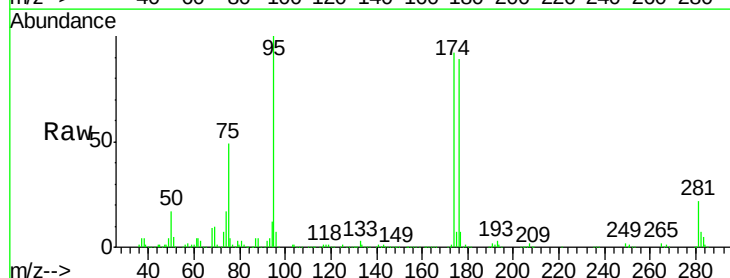
Instrument :  
 MSVOA\_Y  
 ClientSampled :

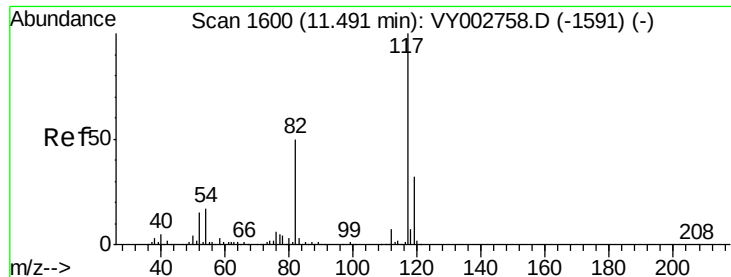
Tot Ion: 63 Resp: 2029  
 Ion Ratio Lower Upper  
 63 100  
 106 34.5 25.4 38.2



#62  
 4-Bromofluorobenzene  
 Concen: 52.359 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. 0.00 min  
 Lab File: VY002914.D  
 Acq: 18 Jun 2020 12:40

Tgt Ion: 95 Resp: 179409  
 Ion Ratio Lower Upper  
 95 100  
 174 97.6 0.0 191.2  
 176 93.9 0.0 188.8

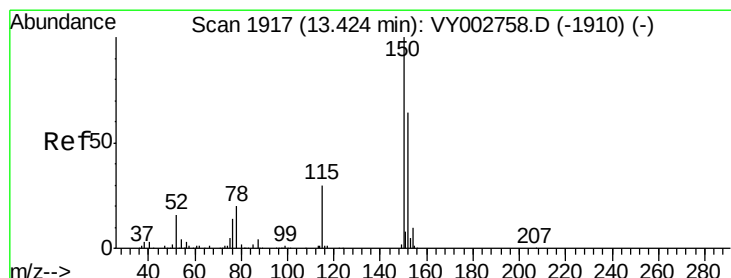
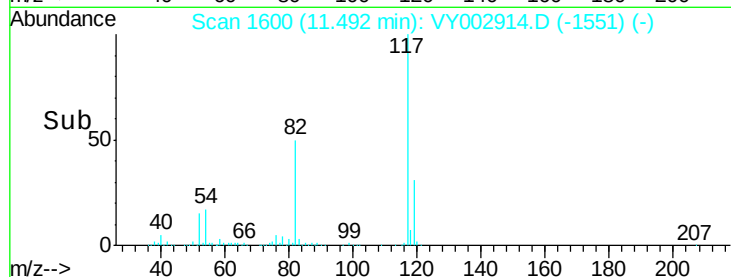
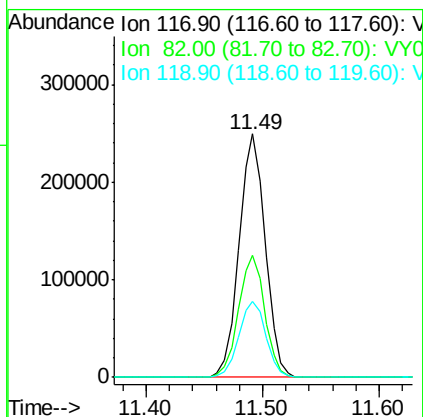
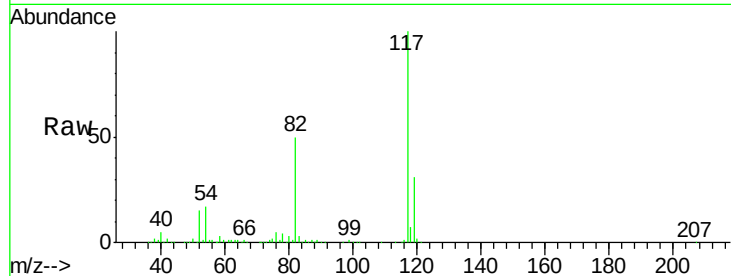




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY002914.D  
Acq: 18 Jun 2020 12:40

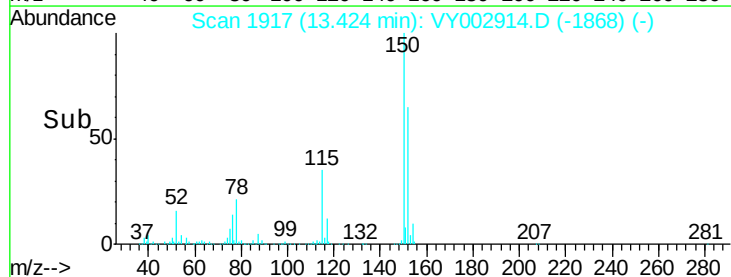
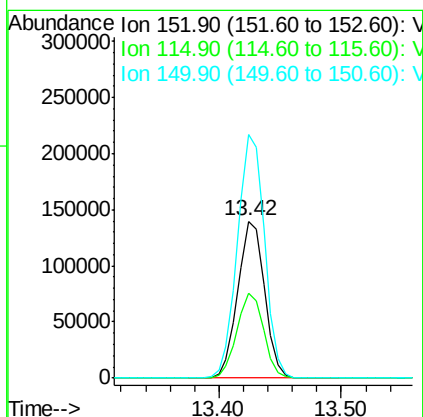
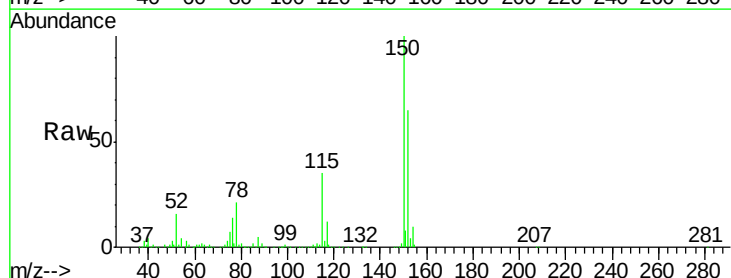
Instrument :  
MSVOA\_Y  
ClientSampleId :

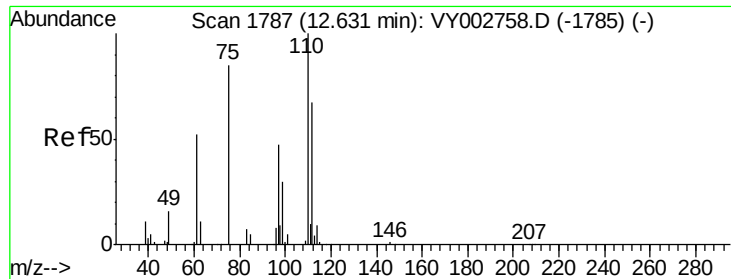
Tot Ion:117 Resp: 390550  
Ion Ratio Lower Upper  
117 100  
82 50.0 40.2 60.4  
119 31.2 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY002914.D  
Acq: 18 Jun 2020 12:40

Tgt Ion:152 Resp: 211348  
Ion Ratio Lower Upper  
152 100  
115 54.0 27.0 81.0  
150 157.8 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 45.593 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002914.D

Acq: 18 Jun 2020 12:40

Instrument :

MSVOA\_Y

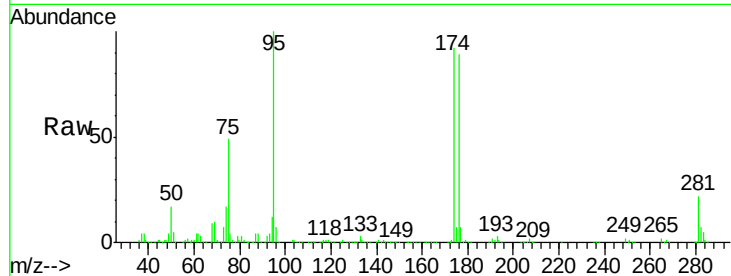
ClientSampleId :

Tot Ion: 75 Resp: 86826

Ion Ratio Lower Upper

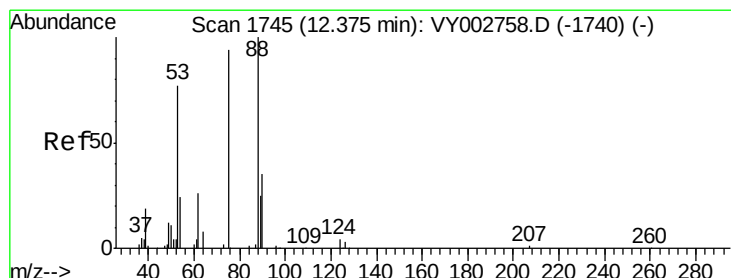
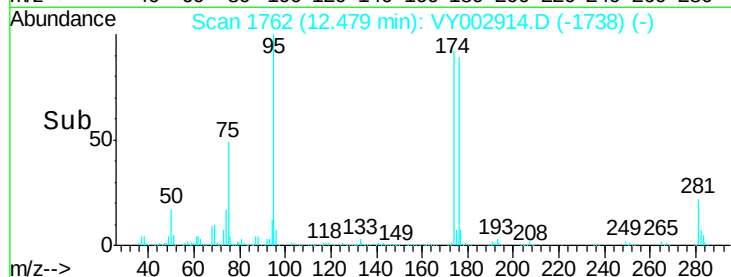
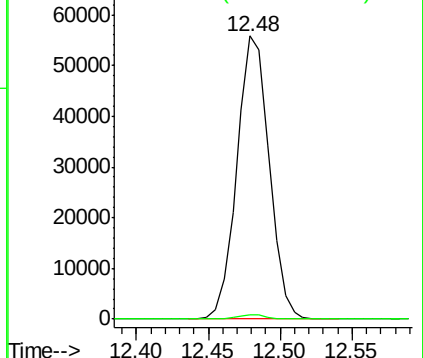
75 100

77 1.3 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: 85.896 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002914.D

Acq: 18 Jun 2020 12:40

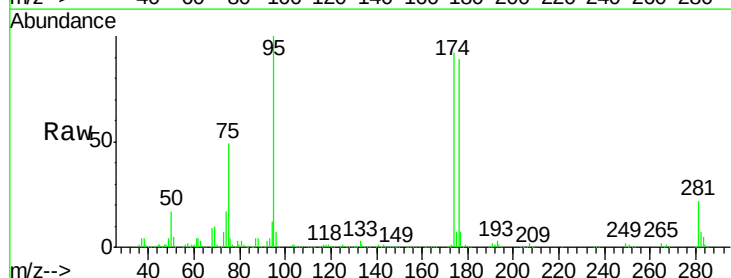
Tgt Ion: 75 Resp: 86826

Ion Ratio Lower Upper

75 100

53 0.0 64.0 96.0#

89 0.7 37.4 56.2#



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

