

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY021120\  
 Data File : VY001593.D  
 Acq On : 11 Feb 2020 11:02  
 Operator : SY/MD  
 Sample : VY0211SBL01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Feb 12 07:52:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 04 15:10:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 171726   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 308088   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 272331   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 121018   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 94062    | 54.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.80% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 88607    | 49.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.74%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 368943   | 54.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.78% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 124500   | 47.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04%  |          |

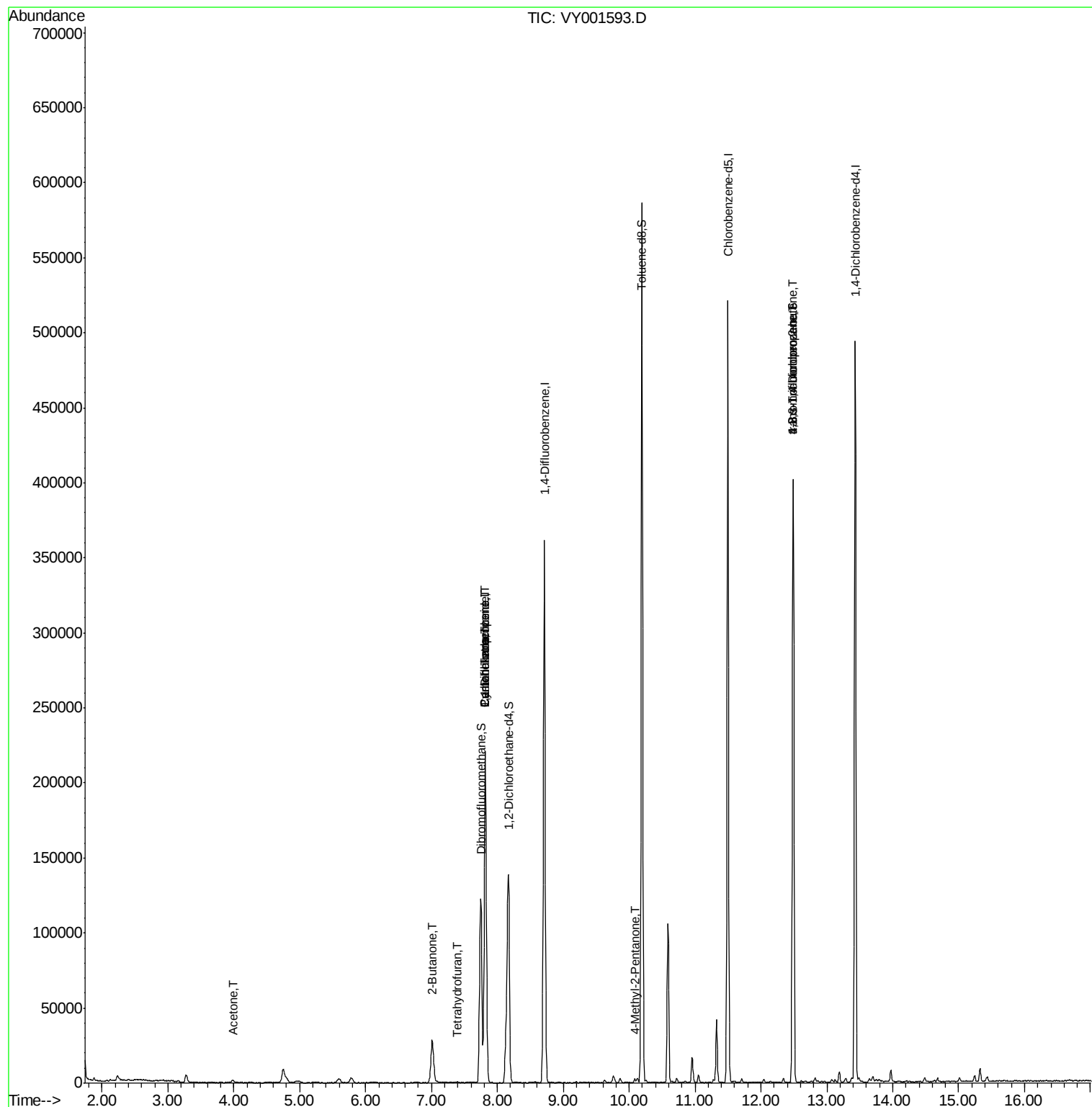
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.97  | 59   | 1768     | Below Cal | #      | 76     |
| 16) Acetone                    | 3.99  | 43   | 3146     | 6.290     | ug/l   | 90     |
| 20) Methylene Chloride         | 4.75  | 84   | 5993     | Below Cal |        | 94     |
| 25) 2-Butanone                 | 7.02  | 43   | 2878     | 4.435     | ug/l # | 65     |
| 29) Tetrahydrofuran            | 7.39  | 42   | 568      | 1.461     | ug/l # | 66     |
| 31) Cyclohexane                | 7.82  | 56   | 3962     | 1.177     | ug/l # | 18     |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 13809    | 4.900     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 16709    | 6.128     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 1761     | 1.324     | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 63385    | 48.704    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 63385    | 94.240    | ug/l # | 16     |

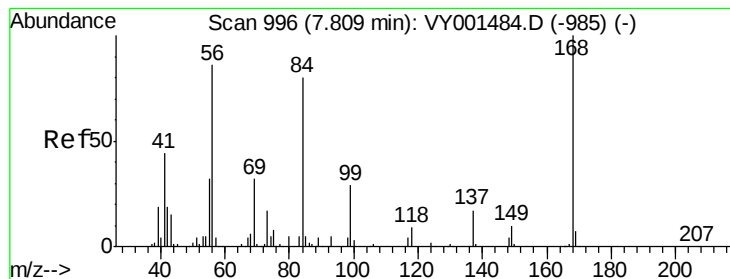
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VY0211SBL01  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Feb 12 07:52:27 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 04 15:10:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001593.D

Acq: 11 Feb 2020 11:02

Instrument :

MSVOA\_Y

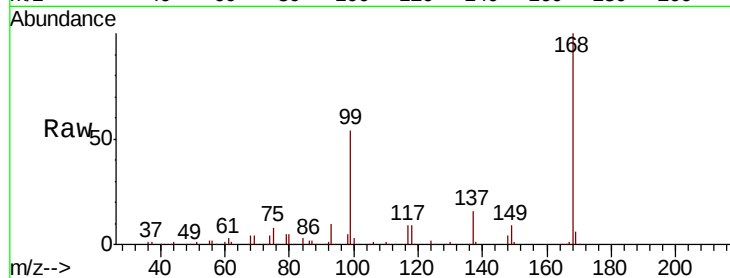
ClientSampleId :

Tot Ion:168 Resp: 171726

Ion Ratio Lower Upper

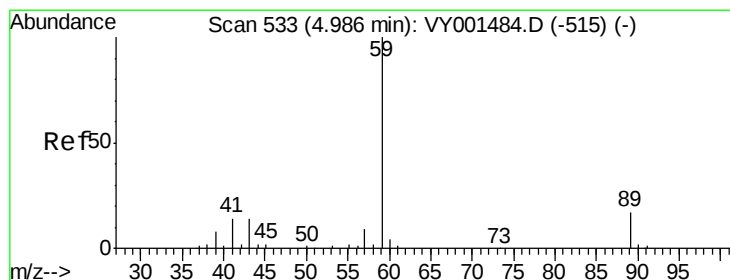
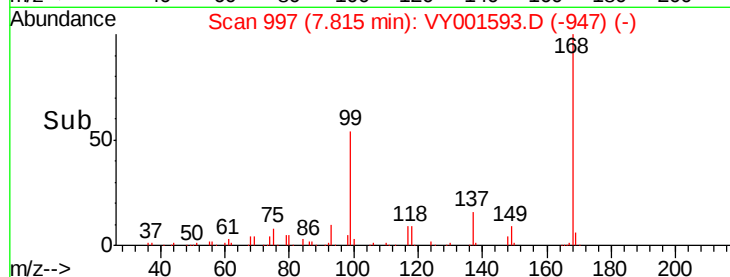
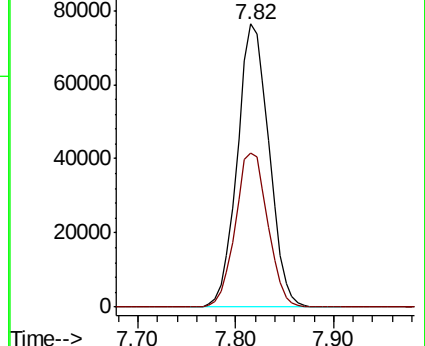
168 100

99 54.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VY001484.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY001484.D (-985) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.97 min Scan# 531

Delta R.T. -0.01 min

Lab File: VY001593.D

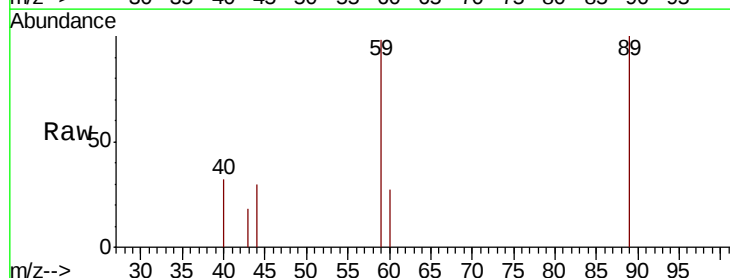
Acq: 11 Feb 2020 11:02

Tgt Ion: 59 Resp: 1768

Ion Ratio Lower Upper

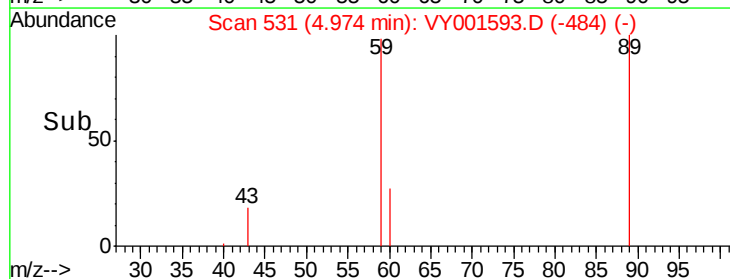
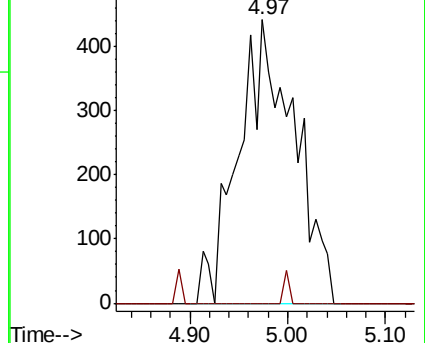
59 100

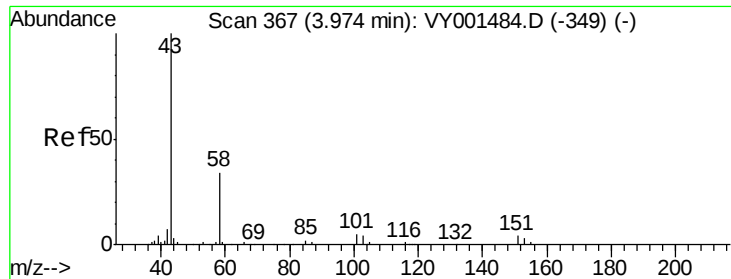
57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VY001484.D (-515) (-)

Ion 57.00 (56.70 to 57.70): VY001484.D (-515) (-)

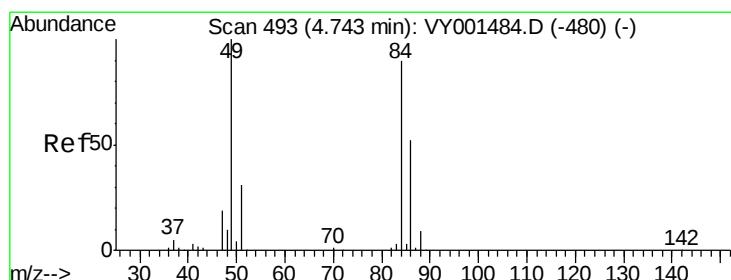
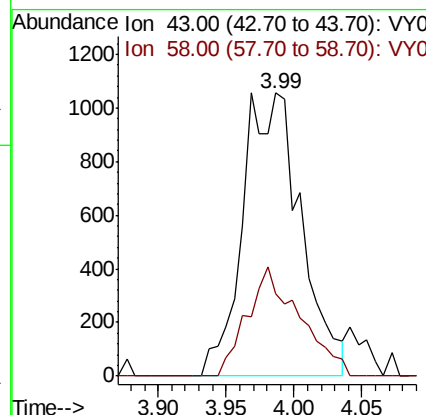
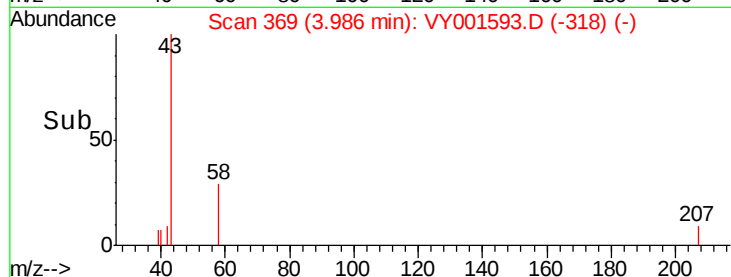
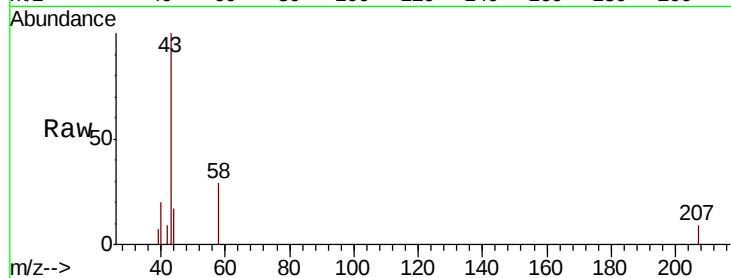




#16  
Acetone  
Concen: 6.290 ug/l  
RT: 3.99 min Scan# 369  
Delta R.T. 0.01 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

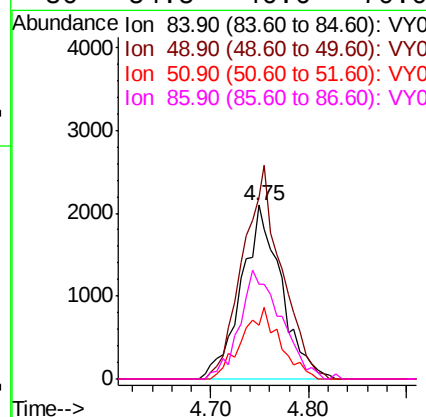
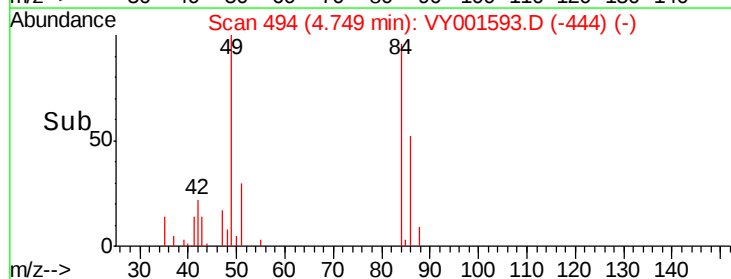
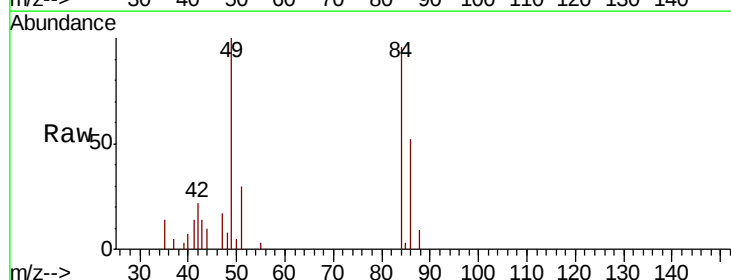
Instrument :  
MSVOA\_Y  
ClientSampled :

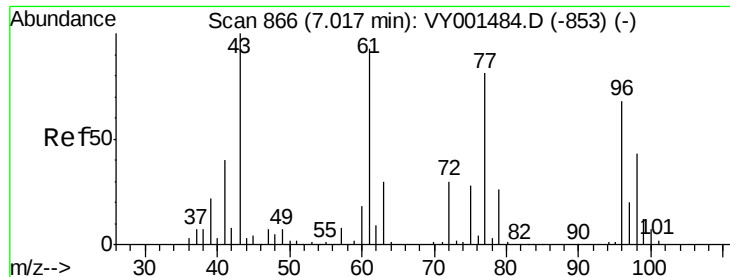
Tot Ion: 43 Resp: 3146  
Ion Ratio Lower Upper  
43 100  
58 28.9 27.5 41.3



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.75 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

Tgt Ion: 84 Resp: 5993  
Ion Ratio Lower Upper  
84 100  
49 104.2 89.0 133.6  
51 31.0 27.4 41.2  
86 54.5 46.6 70.0

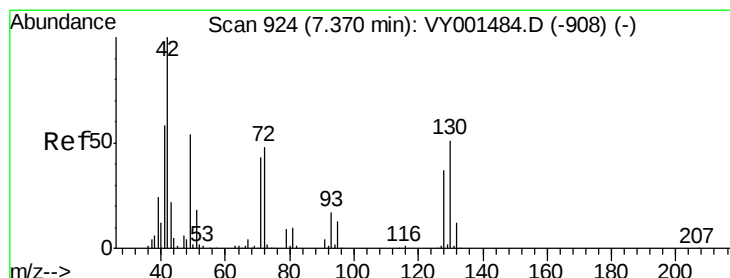
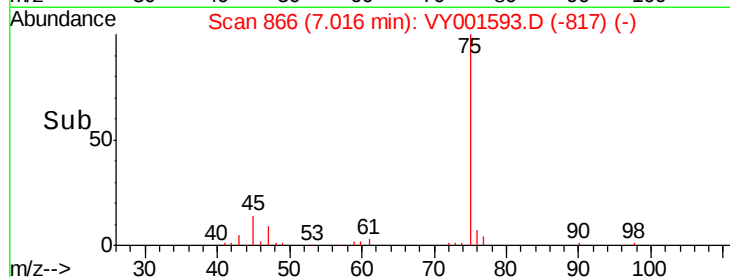
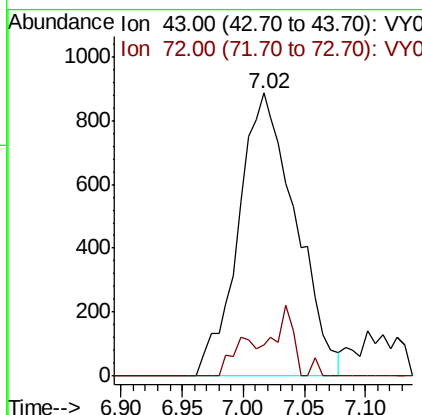
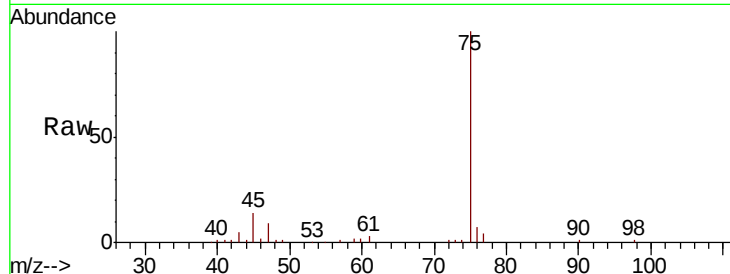




#25  
2-Butanone  
Concen: 4.435 ug/l  
RT: 7.02 min Scan# 866  
Delta R.T. -0.00 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

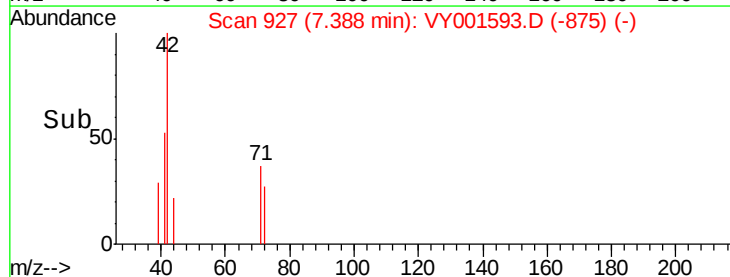
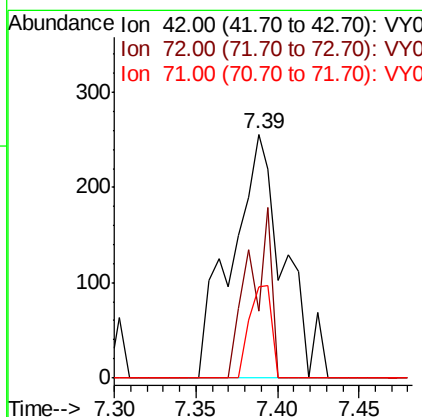
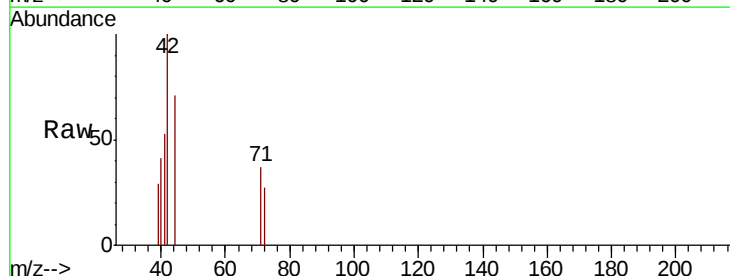
Instrument :  
MSVOA\_Y  
ClientSampled :

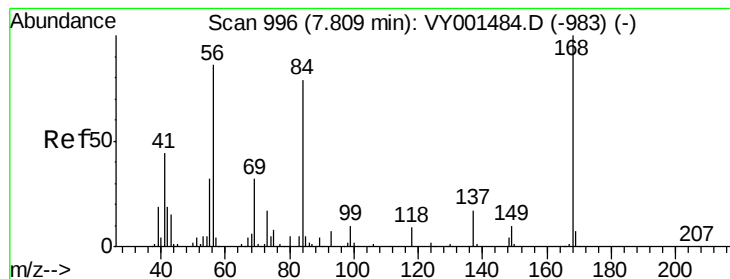
Tot Ion: 43 Resp: 2878  
Ion Ratio Lower Upper  
43 100  
72 10.8 23.8 35.8#



#29  
Tetrahydrofuran  
Concen: 1.461 ug/l  
RT: 7.39 min Scan# 927  
Delta R.T. 0.02 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

Tgt Ion: 42 Resp: 568  
Ion Ratio Lower Upper  
42 100  
72 29.4 37.8 56.6#  
71 16.2 34.8 52.2#





#31

Cyclohexane

Concen: 1.177 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001593.D

Acq: 11 Feb 2020 11:02

Instrument :

MSVOA\_Y

ClientSampleId :

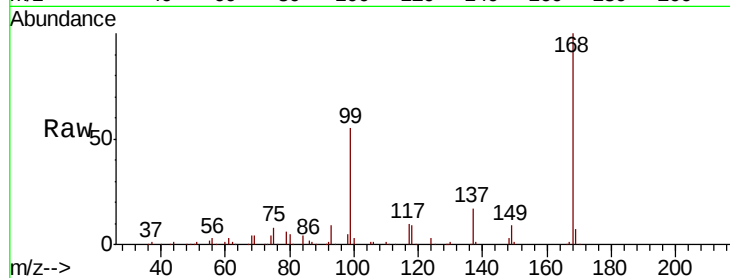
Tot Ion: 56 Resp: 3962

Ion Ratio Lower Upper

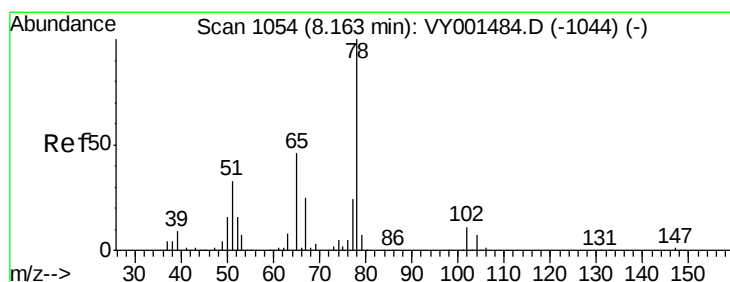
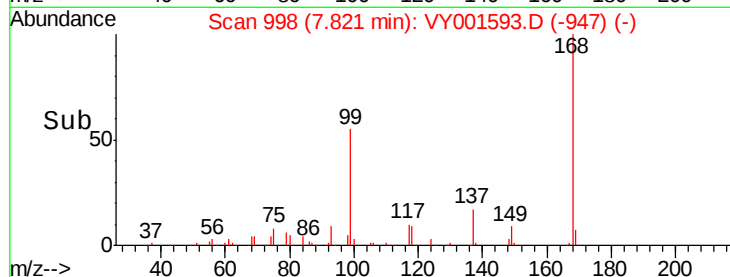
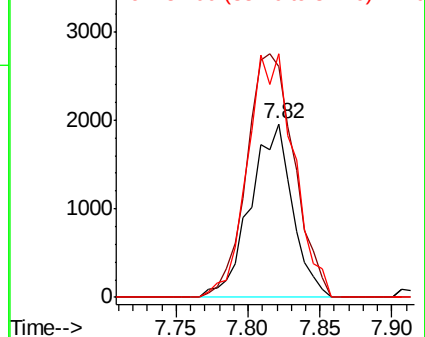
56 100

69 133.0 29.6 44.4#

84 140.3 73.6 110.4#



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: 54.402 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY001593.D

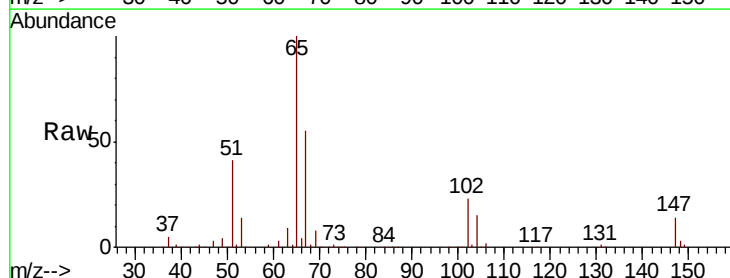
Acq: 11 Feb 2020 11:02

Tgt Ion: 65 Resp: 94062

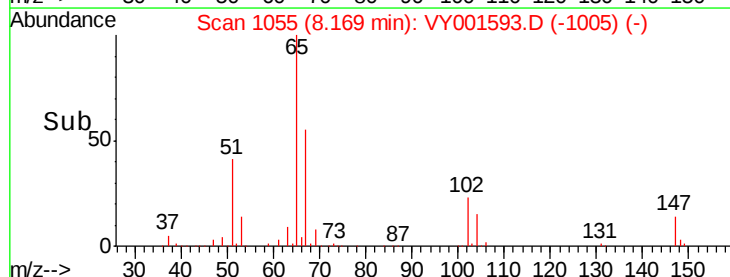
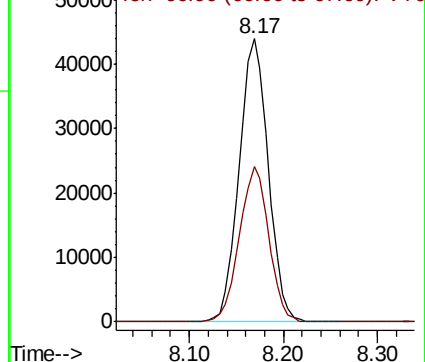
Ion Ratio Lower Upper

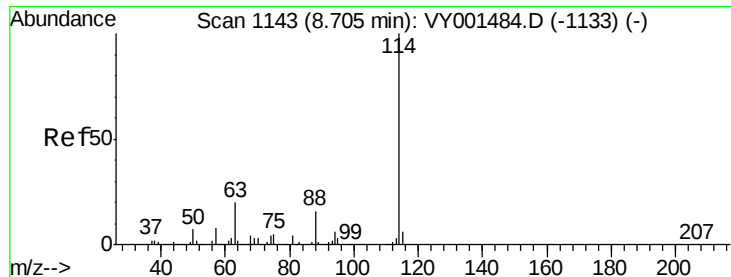
65 100

67 55.6 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0

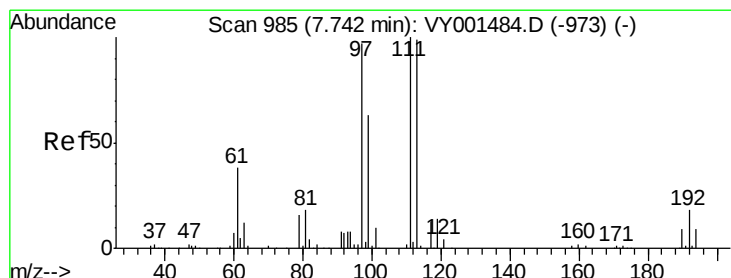
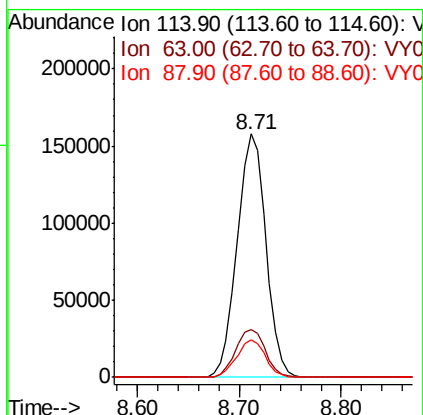
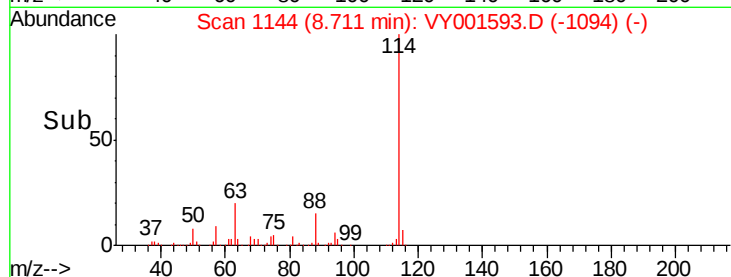
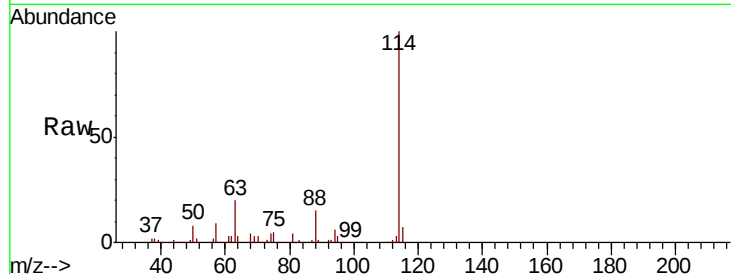




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1144  
 Delta R.T. 0.01 min  
 Lab File: VY001593.D  
 Acq: 11 Feb 2020 11:02

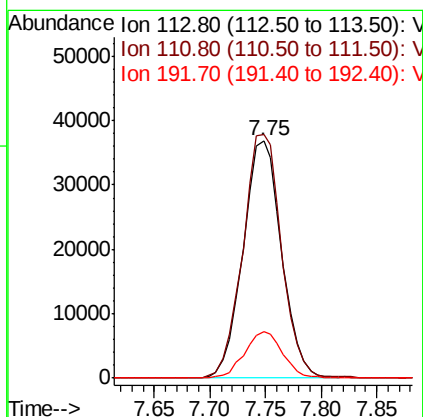
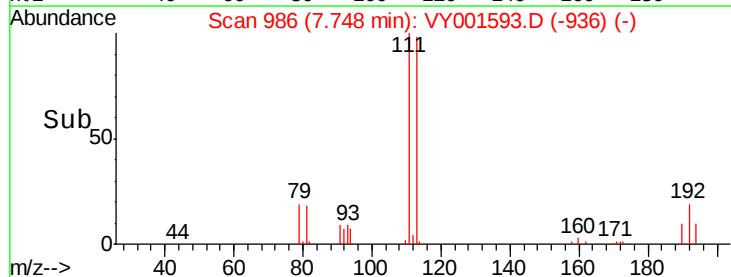
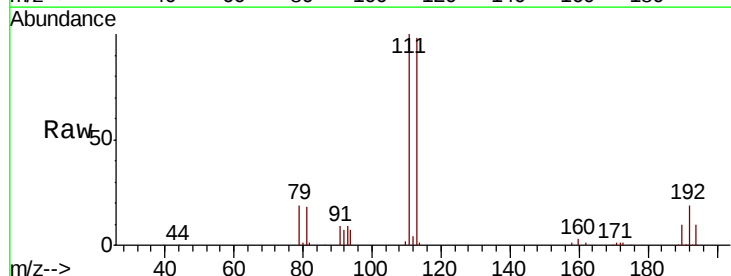
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

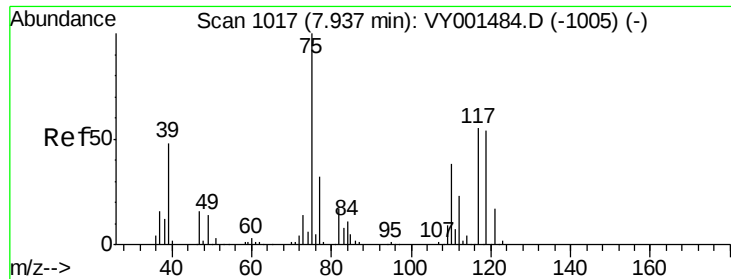
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.6  | 0.0   | 39.8  |
| 88      | 15.5  | 0.0   | 32.6  |



#35  
 Dibromofluoromethane  
 Concen: 49.875 ug/l  
 RT: 7.75 min Scan# 986  
 Delta R.T. 0.01 min  
 Lab File: VY001593.D  
 Acq: 11 Feb 2020 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.6 | 82.9  | 124.3 |
| 192     | 19.4  | 14.6  | 22.0  |

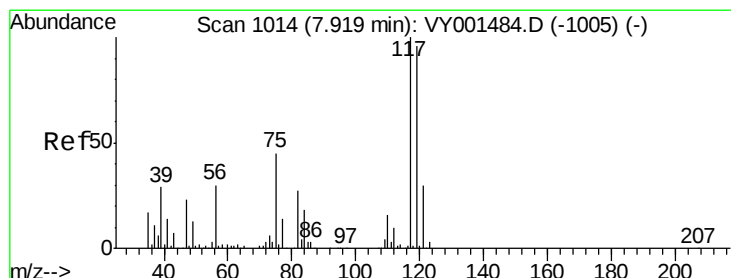
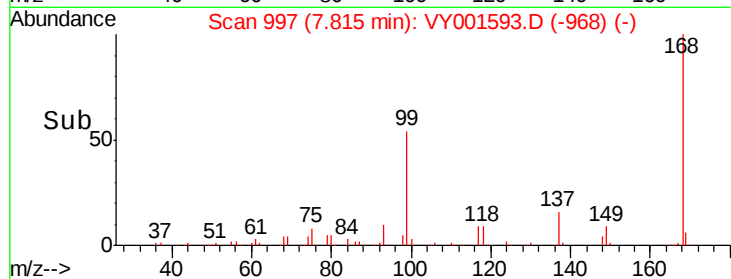
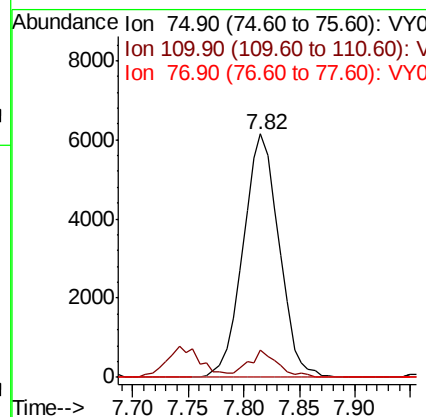
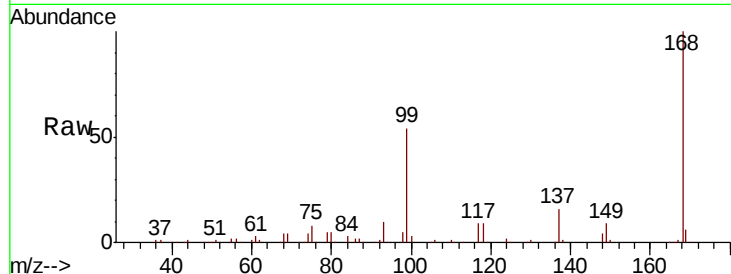




#36  
 1,1-Dichloropropene  
 Concen: 4.900 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.12 min  
 Lab File: VY001593.D  
 Acq: 11 Feb 2020 11:02

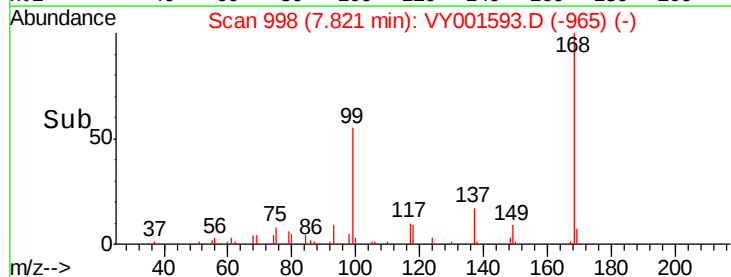
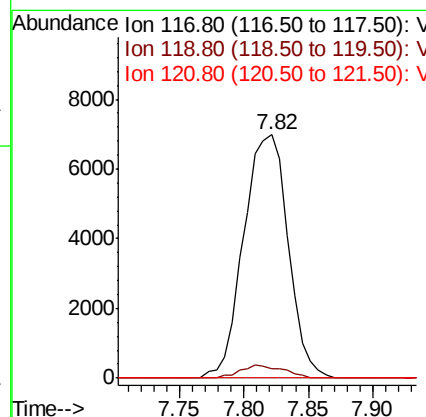
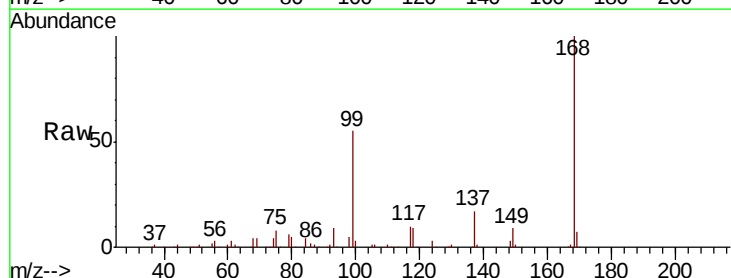
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

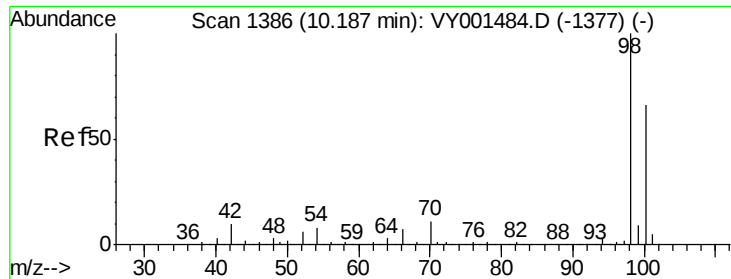
| Tot Ion   | 75    | Resp  | 13809 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.8   | 18.2  | 54.6# |
| 77        | 0.0   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 6.128 ug/l  
 RT: 7.82 min Scan# 998  
 Delta R.T. -0.10 min  
 Lab File: VY001593.D  
 Acq: 11 Feb 2020 11:02

| Tgt Ion   | 117   | Resp  | 16709  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 3.6   | 76.4  | 114.6# |
| 121       | 0.0   | 24.2  | 36.4#  |





#50

Toluene-d8

Concen: 54.889 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001593.D

Acq: 11 Feb 2020 11:02

Instrument :

MSVOA\_Y

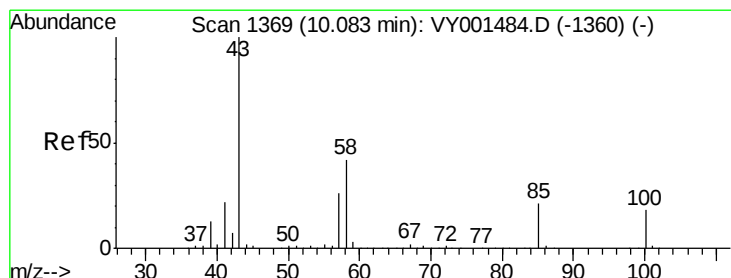
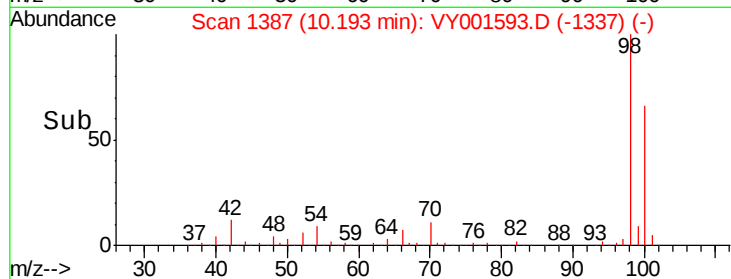
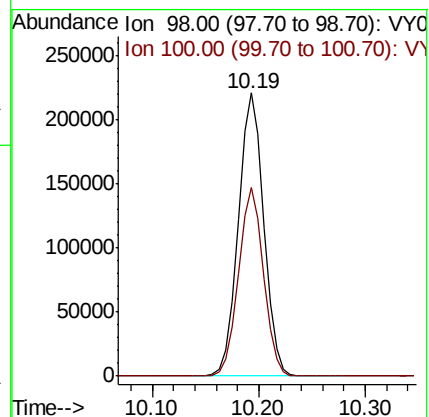
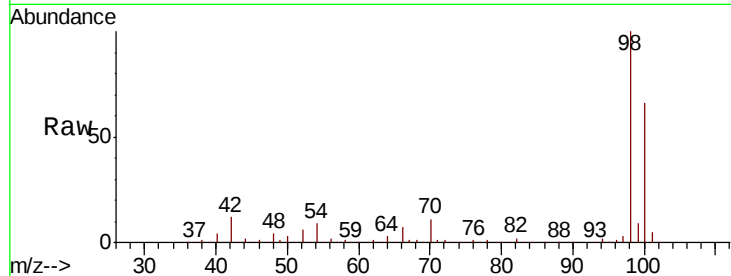
ClientSampled :

Tot Ion: 98 Resp: 368943

Ion Ratio Lower Upper

98 100

100 65.4 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 1.324 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VY001593.D

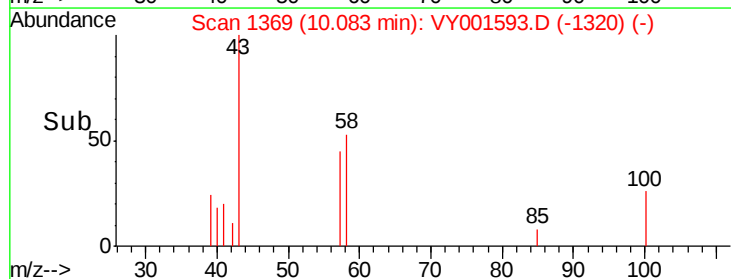
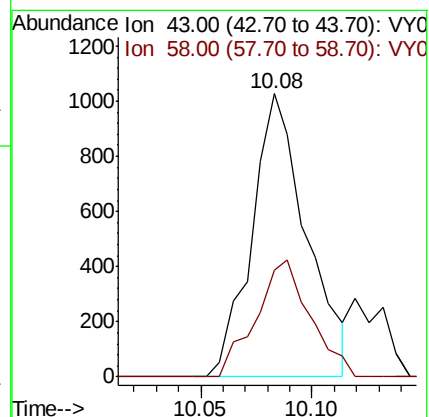
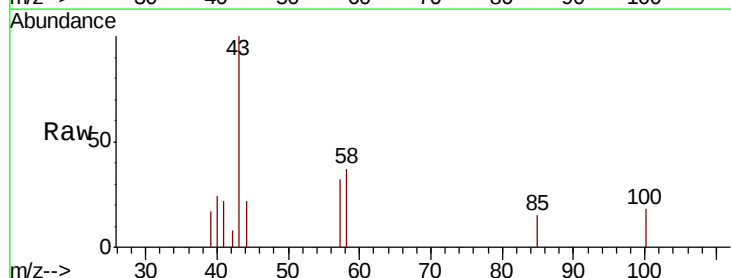
Acq: 11 Feb 2020 11:02

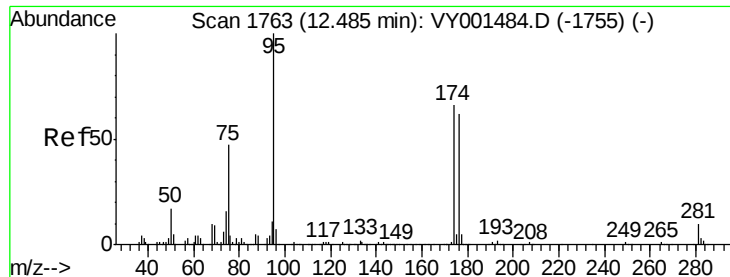
Tgt Ion: 43 Resp: 1761

Ion Ratio Lower Upper

43 100

58 40.7 33.9 50.9

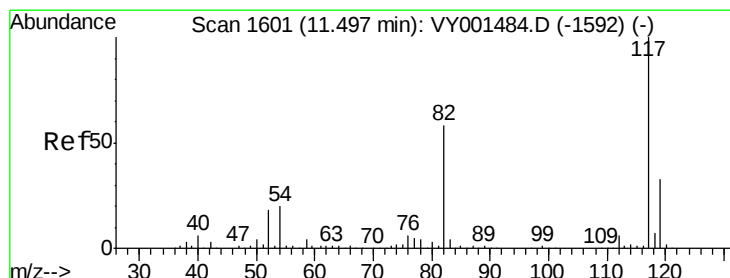
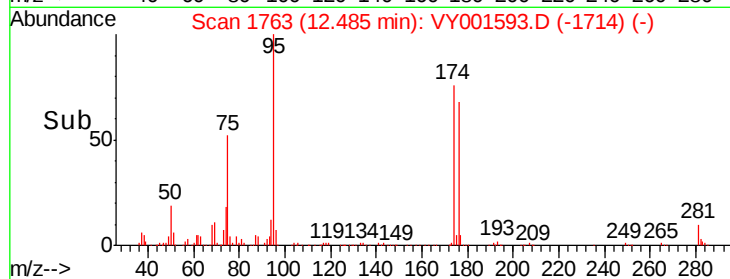
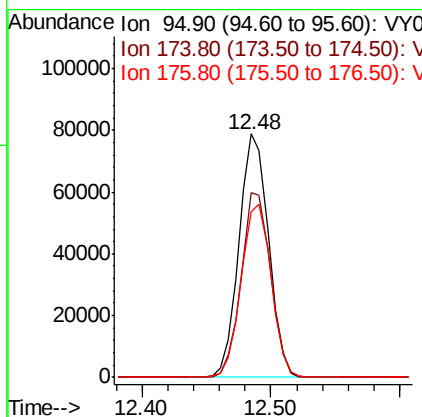
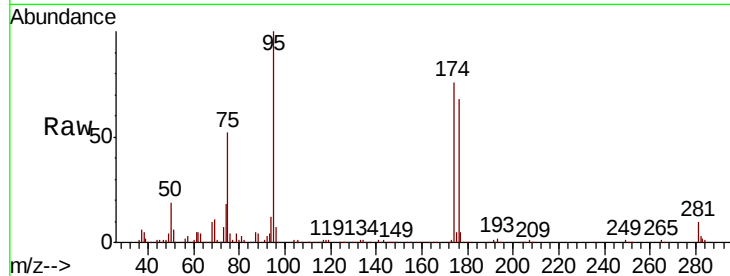




#62  
4-Bromofluorobenzene  
Concen: 47.018 ug/l  
RT: 12.48 min Scan# 1763  
Delta R.T. -0.00 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

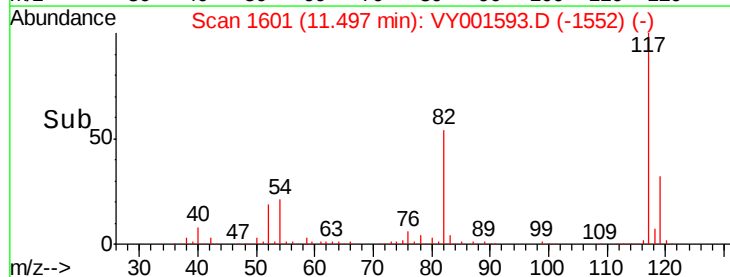
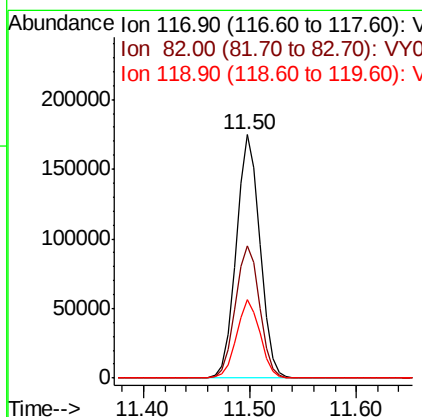
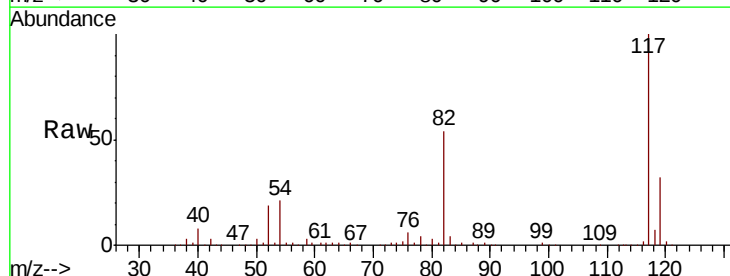
Instrument :  
MSVOA\_Y  
ClientSampleId :

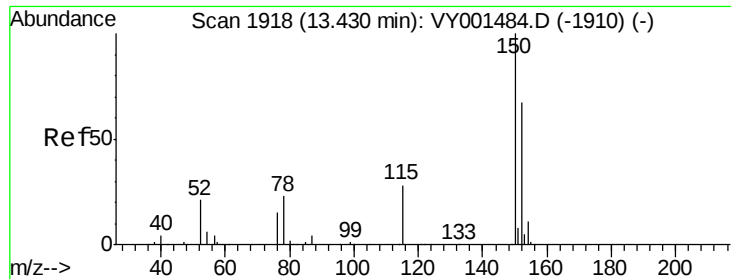
| Tot Ion   | 95    | Resp  | 124500 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 75.7  | 0.0   | 141.4  |
| 176       | 72.2  | 0.0   | 135.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.00 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

| Tgt Ion   | 117   | Resp  | 272331 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 54.4  | 46.1  | 69.1   |
| 119       | 32.4  | 26.1  | 39.1   |



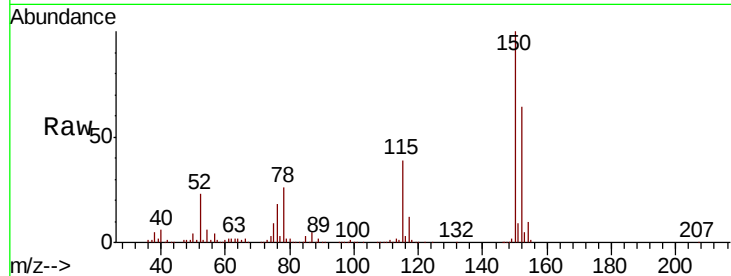


#72

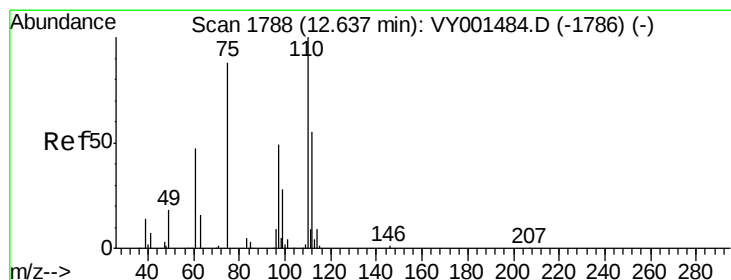
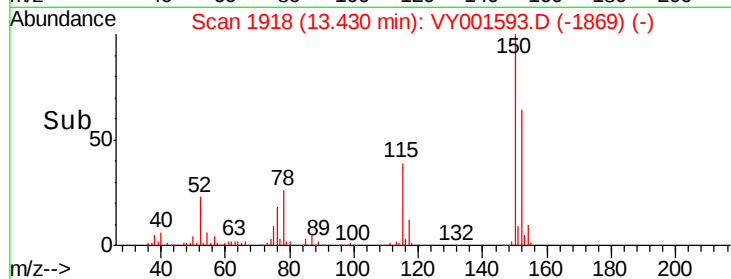
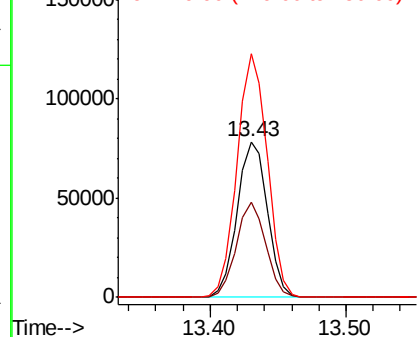
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. -0.00 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:152 Resp: 121018  
Ion Ratio Lower Upper  
152 100  
115 59.6 31.4 94.3  
150 156.6 0.0 346.8



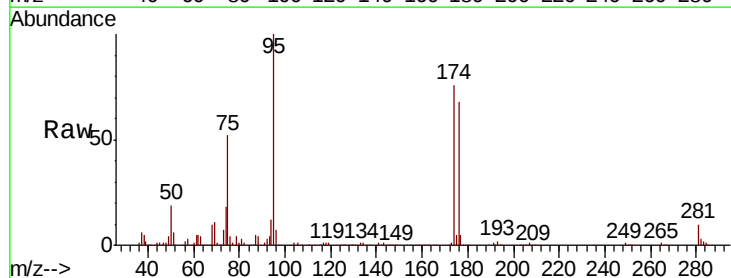
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



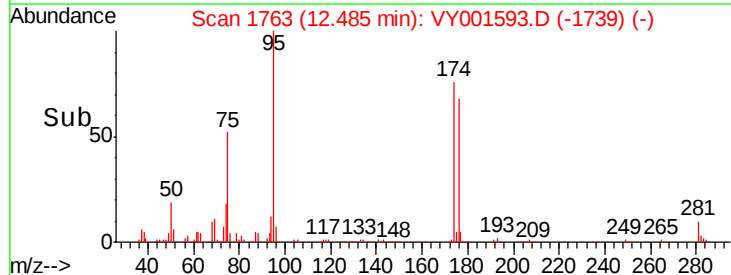
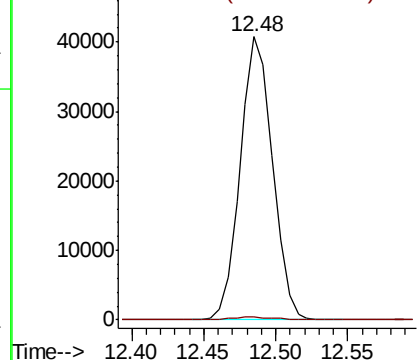
#76

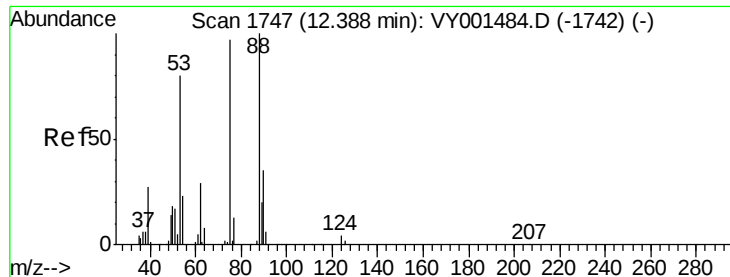
1,2,3-Trichloropropane  
Concen: 48.704 ug/l  
RT: 12.48 min Scan# 1763  
Delta R.T. -0.15 min  
Lab File: VY001593.D  
Acq: 11 Feb 2020 11:02

Tgt Ion: 75 Resp: 63385  
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

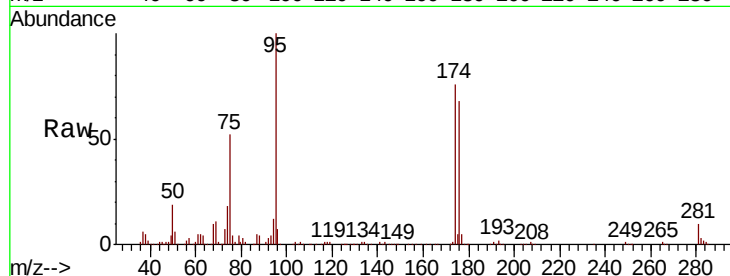




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 94.240 ug/l  
 RT: 12.48 min Scan# 1763  
 Delta R.T. 0.10 min  
 Lab File: VY001593.D  
 Acq: 11 Feb 2020 11:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion: 75 Resp: 63385  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.7 101.5#  
 89 0.1 34.6 52.0#



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

