

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101019\  
 Data File : VY000251.D  
 Acq On : 10 Oct 2019 14:31  
 Operator : SY/MD  
 Sample : VY1010WBL01  
 Misc : 5.0ml/MSVOA Y/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 11 05:51:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 10 02:22:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 323228   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 529126   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 452949   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 208679   | 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   | 198654   | 47.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.58% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 157369   | 47.73 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.46% |          |
| 50) Toluene-d8              | 10.18 | 98   | 608371   | 46.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.96% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 210630   | 46.08 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.16% |          |

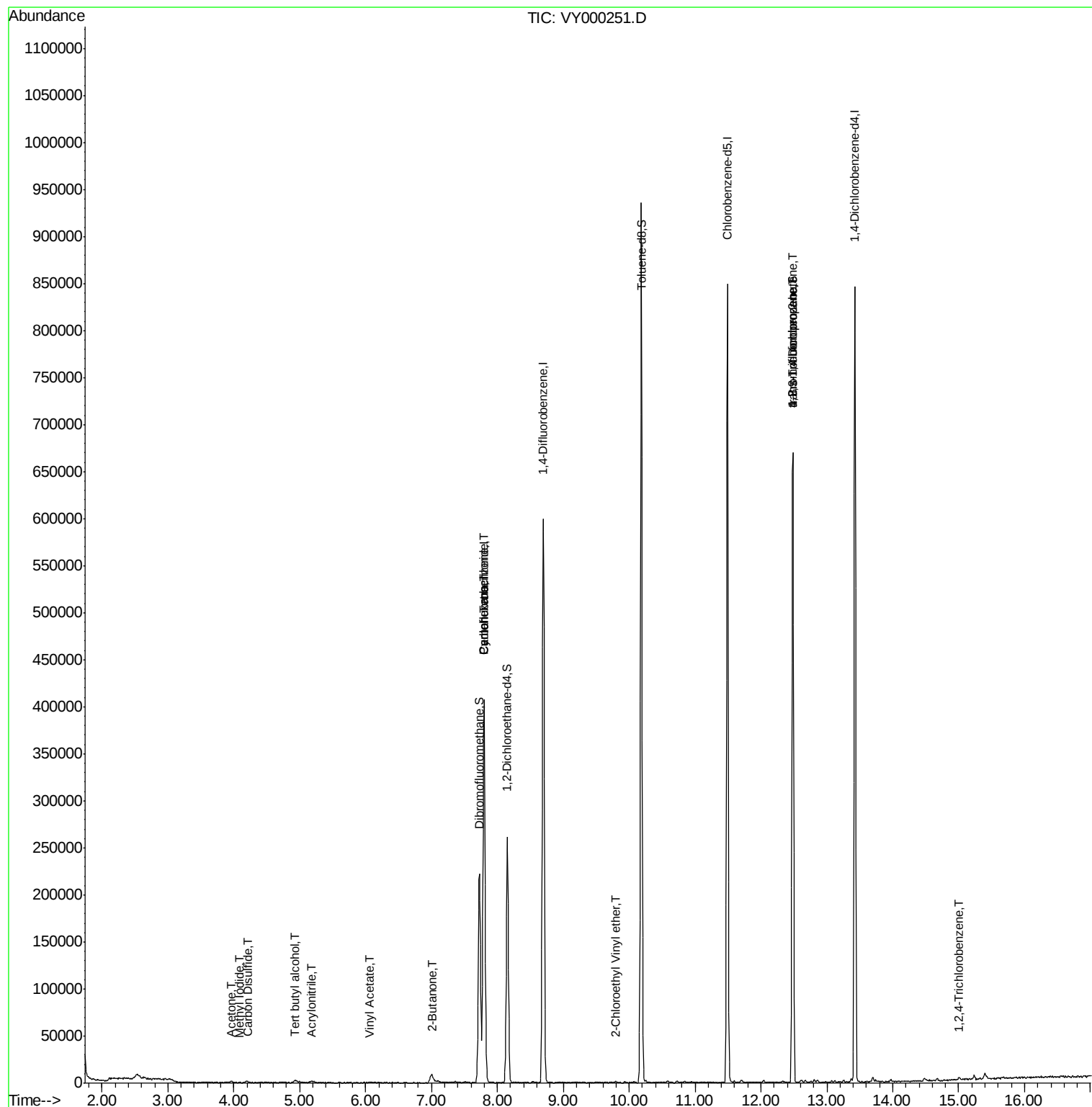
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.09  | 142  | 233      | 0.615     | ug/l # | 42     |
| 11) Tert butyl alcohol         | 4.94  | 59   | 938      | 0.415     | ug/l # | 73     |
| 15) Acrylonitrile              | 5.17  | 53   | 1486     | 0.373     | ug/l # | 49     |
| 16) Acetone                    | 3.96  | 43   | 1665     | 0.506     | ug/l # | 68     |
| 17) Carbon Disulfide           | 4.20  | 76   | 3321     | 0.317     | ug/l # | 94     |
| 23) Vinyl Acetate              | 6.05  | 43   | 396      | 2.335     | ug/l # | 72     |
| 25) 2-Butanone                 | 7.02  | 43   | 1396     | 0.229     | ug/l   | 98     |
| 31) Cyclohexane                | 7.80  | 56   | 6977     | 0.976     | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 30275    | 5.770     | ug/l # | 15     |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 759      | 0.234     | ug/l # | 59     |
| 59) 2-Hexanone                 | 10.85 | 43   | 1188     | Below Cal |        | 64     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 109909   | 19.949    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 109909   | 38.903    | ug/l # | 14     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.35 | 75   | 149      | Below Cal | #      | 14     |
| 93) 1,2,4-Trichlorobenzene     | 15.00 | 180  | 1102     | 0.213     | ug/l   | 98     |

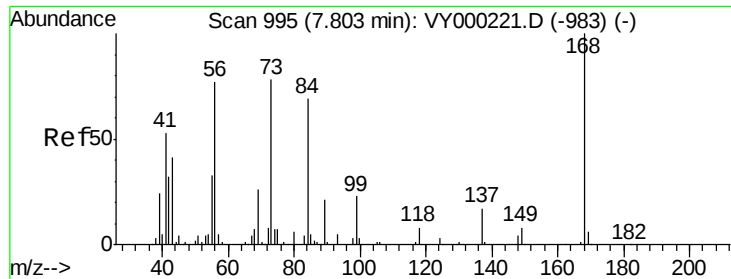
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY101019\  
Data File : VY000251.D  
Acq On : 10 Oct 2019 14:31  
Operator : SY/MD  
Sample : VY1010WBL01  
Misc : 5.0ml/MSVOA Y/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Oct 11 05:51:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y100819W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 10 02:22:40 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: VY000251.D

Acq: 10 Oct 2019 14:31

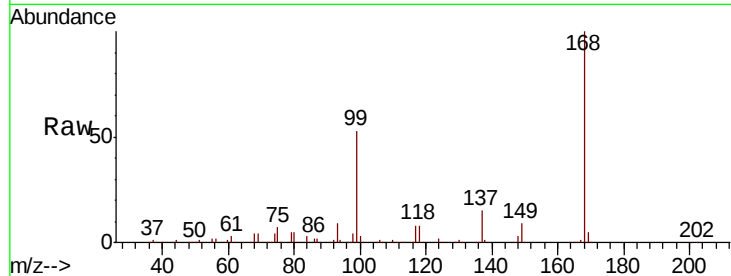
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:168 Resp: 323228

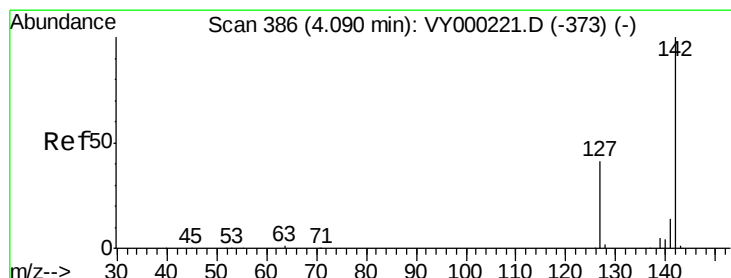
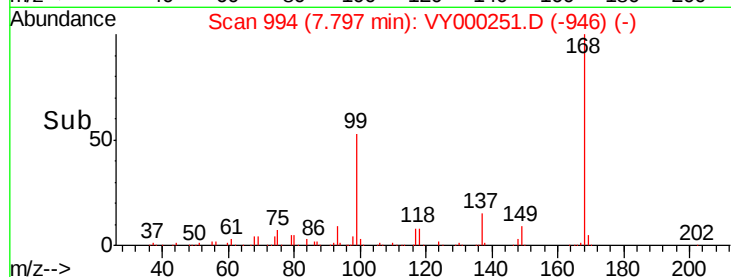
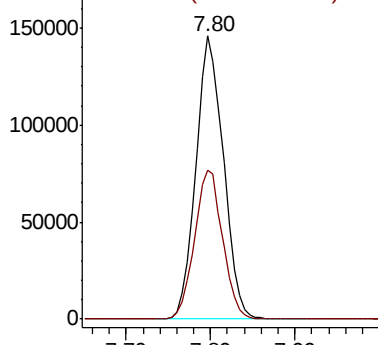
Ion Ratio Lower Upper

168 100

99 52.7 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V  
Ion 98.90 (98.60 to 99.60): VY0



#10

Methyl Iodide

Concen: 0.615 ug/l

RT: 4.09 min Scan# 386

Delta R.T. 0.00 min

Lab File: VY000251.D

Acq: 10 Oct 2019 14:31

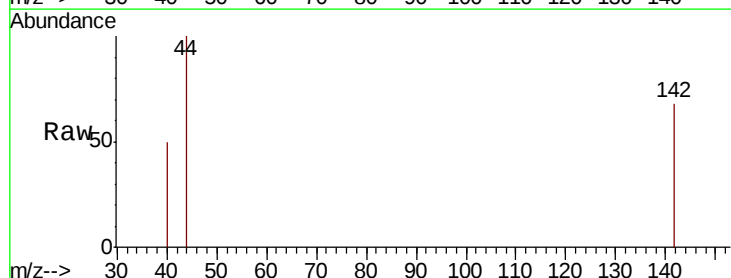
Tgt Ion:142 Resp: 233

Ion Ratio Lower Upper

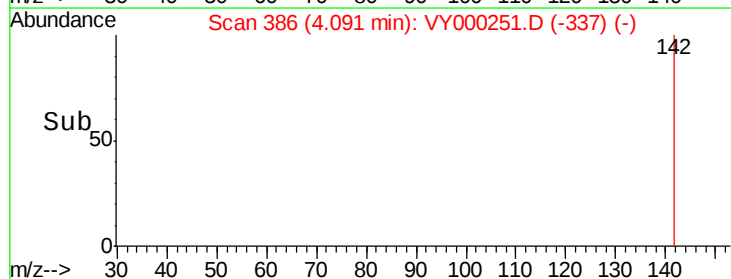
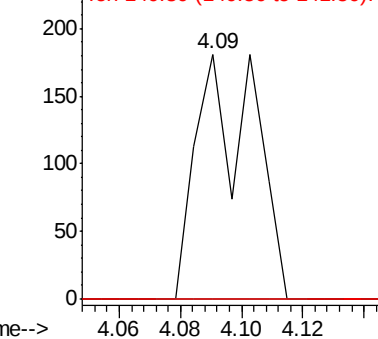
142 100

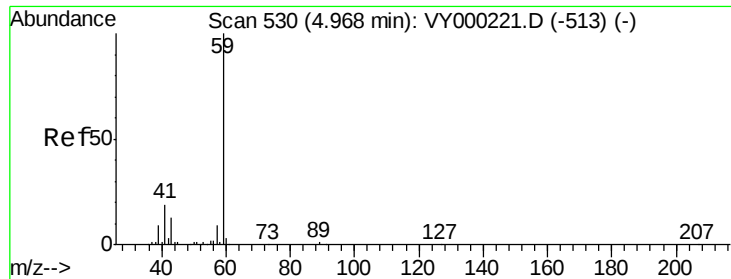
127 0.0 33.0 49.6#

141 0.0 11.0 16.4#



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V



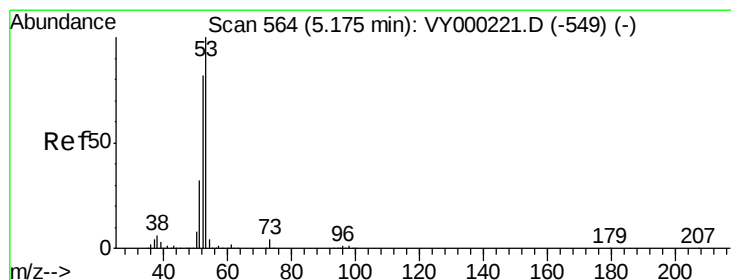
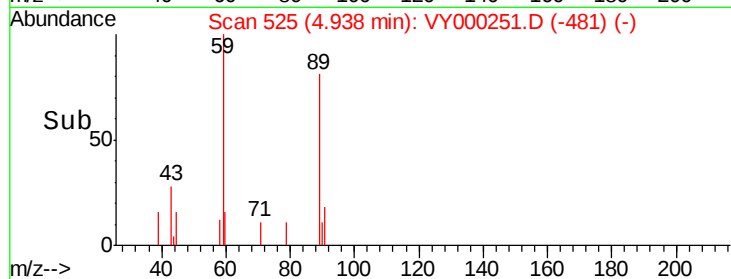
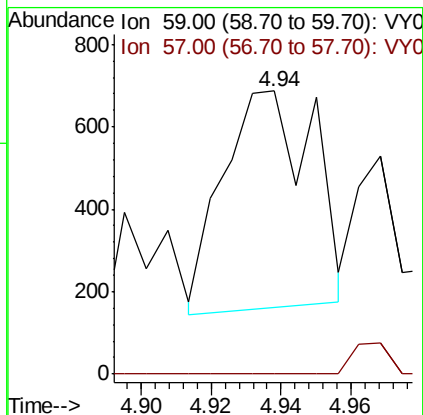
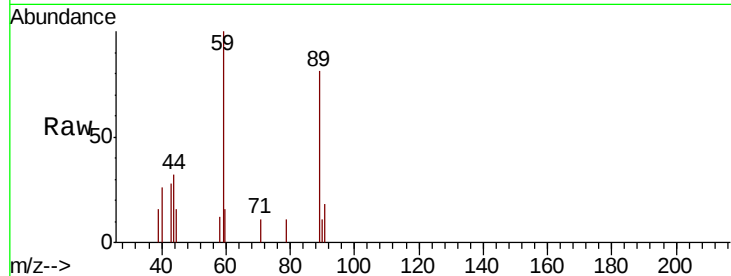


#11

Tert butyl alcohol  
 Concen: 0.415 ug/l  
 RT: 4.94 min Scan# 525  
 Delta R.T. -0.03 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

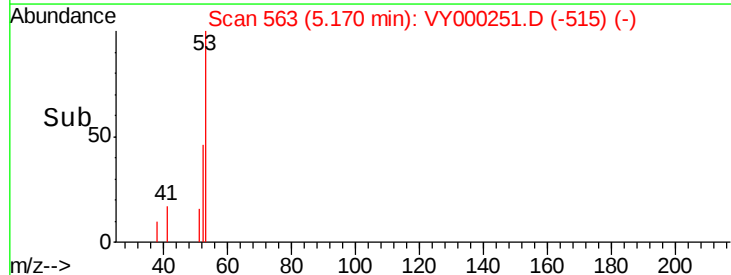
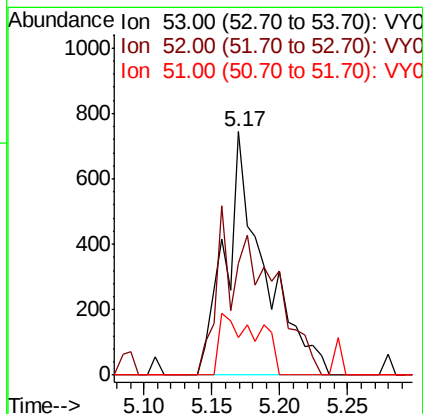
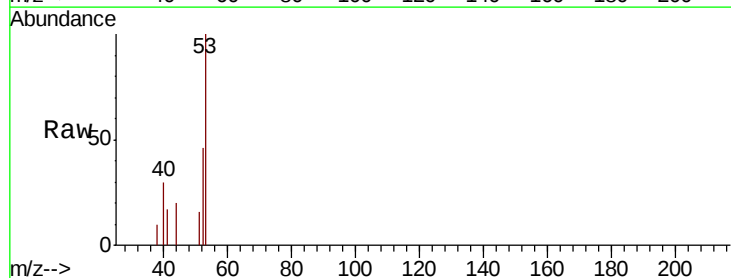
Tot Ion: 59 Resp: 938  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.0 12.0#

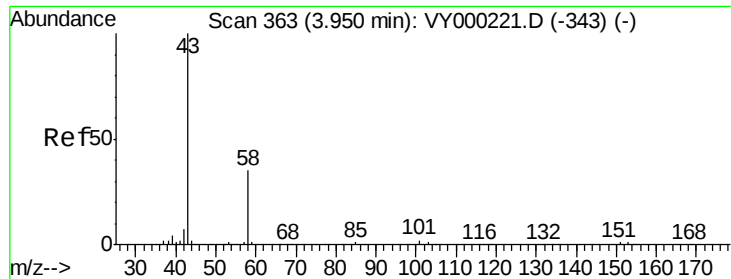


#15

Acrylonitrile  
 Concen: 0.373 ug/l  
 RT: 5.17 min Scan# 563  
 Delta R.T. -0.01 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

Tgt Ion: 53 Resp: 1486  
 Ion Ratio Lower Upper  
 53 100  
 52 23.8 65.4 98.2#  
 51 24.9 27.2 40.8#





#16

Acetone

Concen: 0.506 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000251.D

Acq: 10 Oct 2019 14:31

Instrument :

MSVOA\_Y

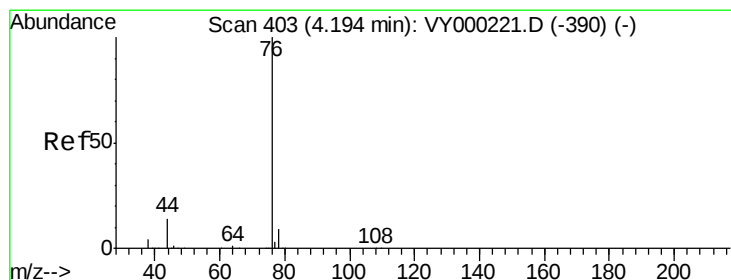
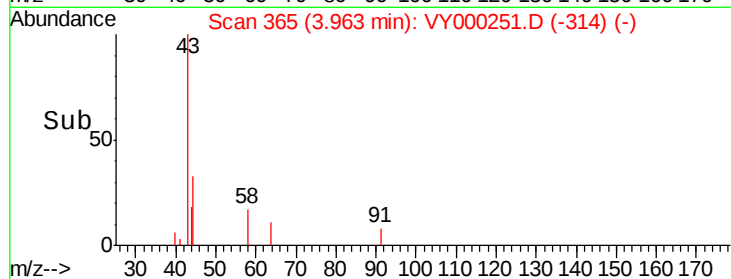
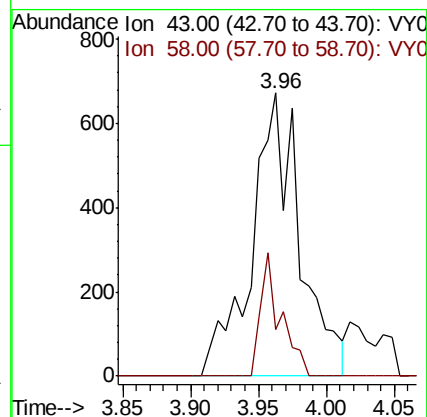
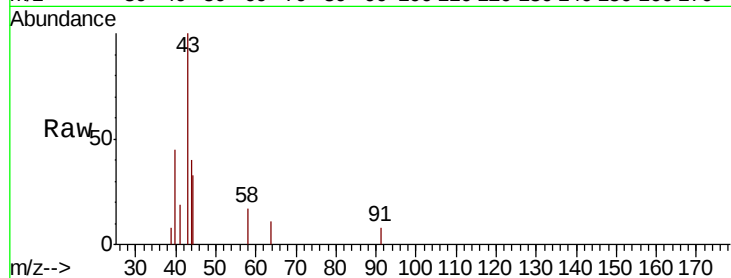
ClientSampleId :

Tot Ion: 43 Resp: 1665

Ion Ratio Lower Upper

43 100

58 16.5 28.2 42.4#



#17

Carbon Disulfide

Concen: 0.317 ug/l

RT: 4.20 min Scan# 404

Delta R.T. 0.01 min

Lab File: VY000251.D

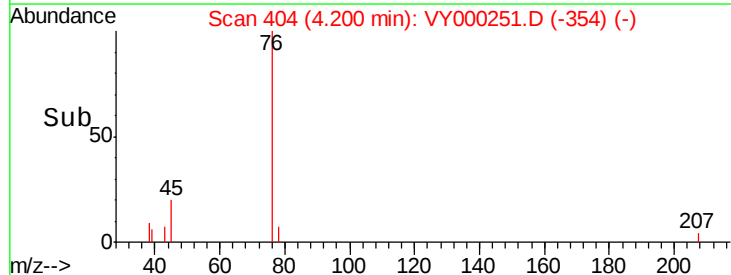
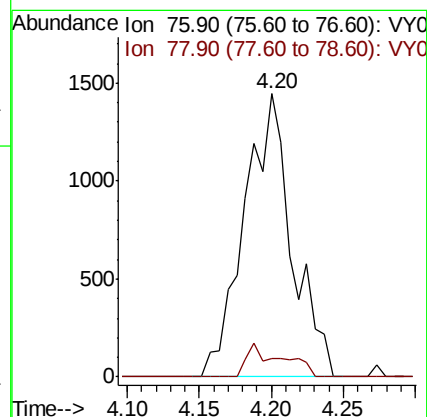
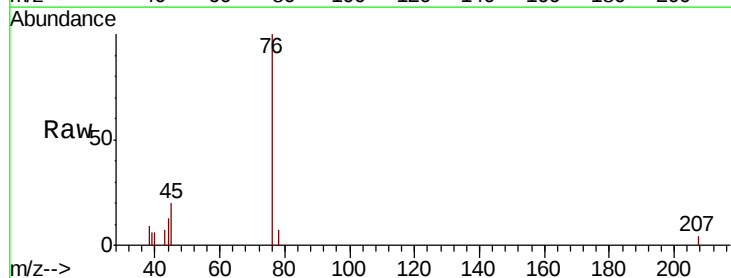
Acq: 10 Oct 2019 14:31

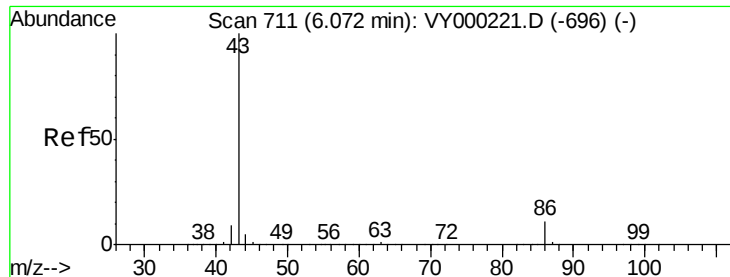
Tgt Ion: 76 Resp: 3321

Ion Ratio Lower Upper

76 100

78 6.6 7.0 10.6#





#23

Vinyl Acetate

Concen: 2.335 ug/l

RT: 6.05 min Scan# 708

Delta R.T. -0.02 min

Lab File: VY000251.D

Acq: 10 Oct 2019 14:31

Instrument :

MSVOA\_Y

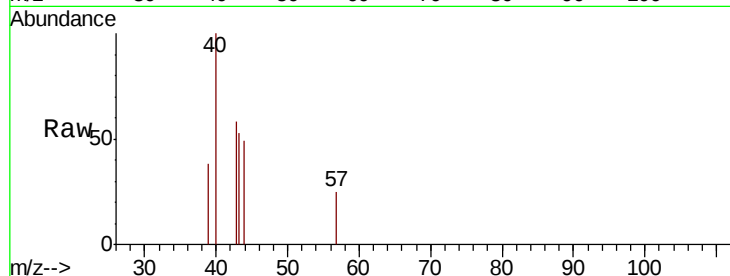
ClientSampleId :

Tot Ion: 43 Resp: 396

Ion Ratio Lower Upper

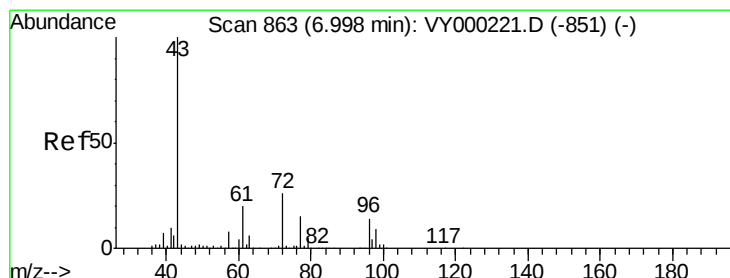
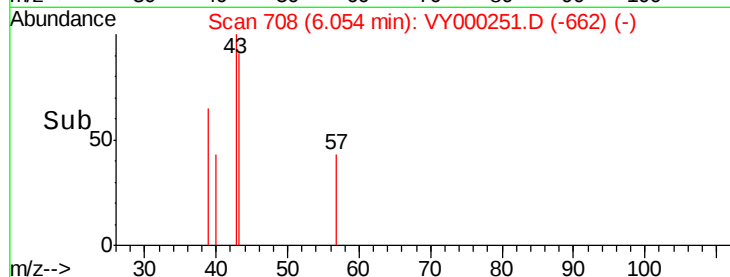
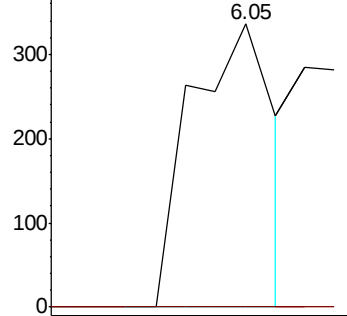
43 100

86 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#25

2-Butanone

Concen: 0.229 ug/l

RT: 7.02 min Scan# 866

Delta R.T. 0.02 min

Lab File: VY000251.D

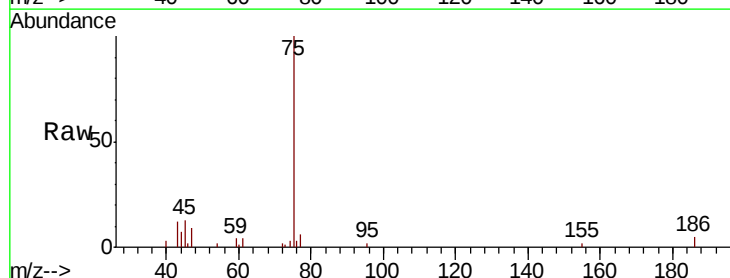
Acq: 10 Oct 2019 14:31

Tgt Ion: 43 Resp: 1396

Ion Ratio Lower Upper

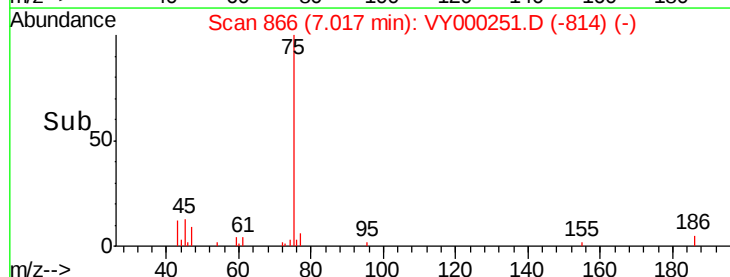
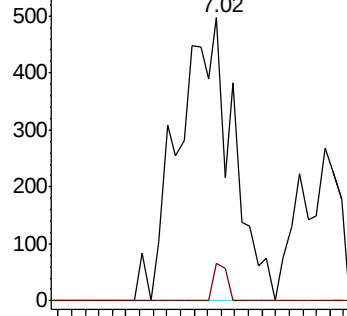
43 100

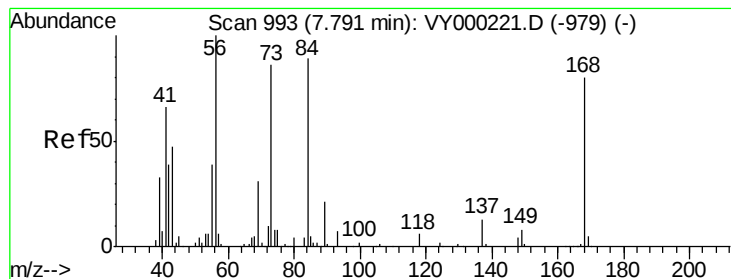
72 24.5 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0





#31

Cyclohexane

Concen: 0.976 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY000251.D

Acq: 10 Oct 2019 14:31

Instrument :  
MSVOA\_Y  
ClientSampled :

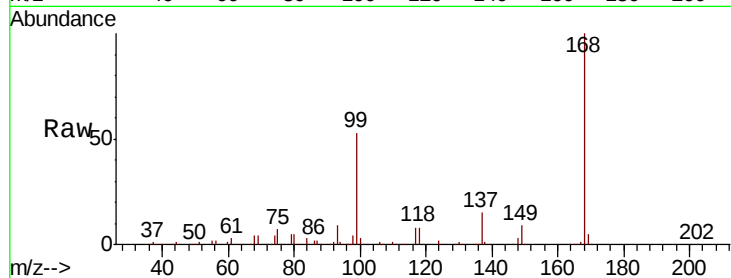
Tot Ion: 56 Resp: 6977

Ion Ratio Lower Upper

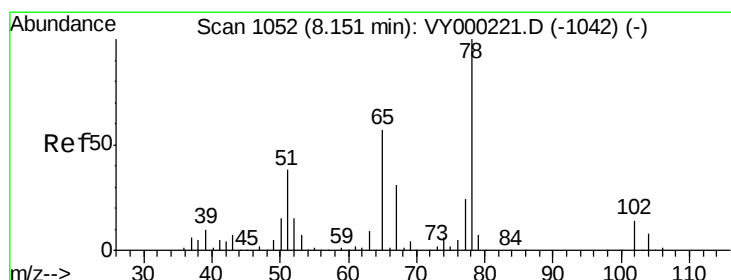
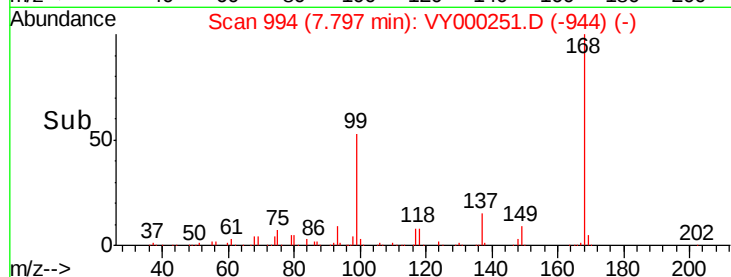
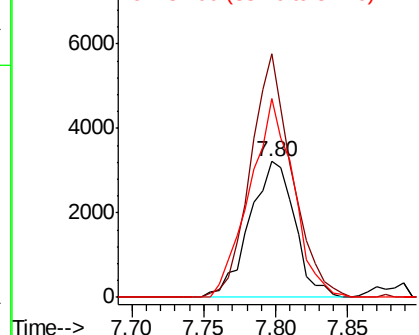
56 100

69 179.1 24.7 37.1#

84 146.0 71.3 106.9#



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: 47.785 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY000251.D

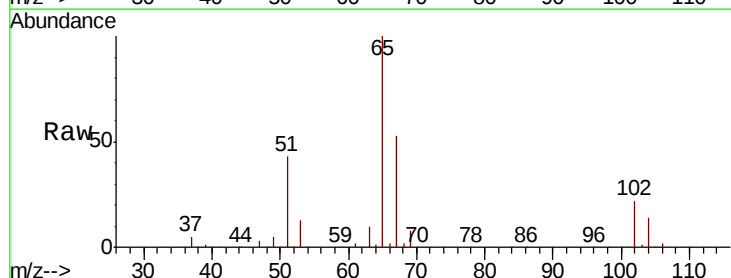
Acq: 10 Oct 2019 14:31

Tgt Ion: 65 Resp: 198654

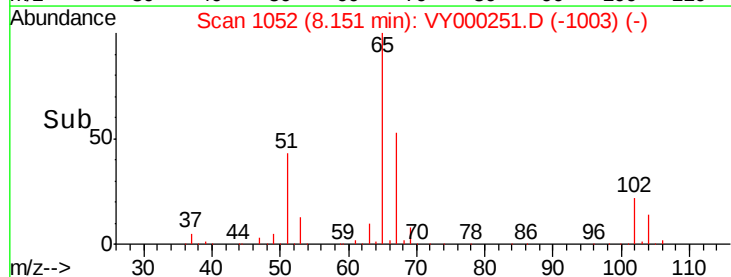
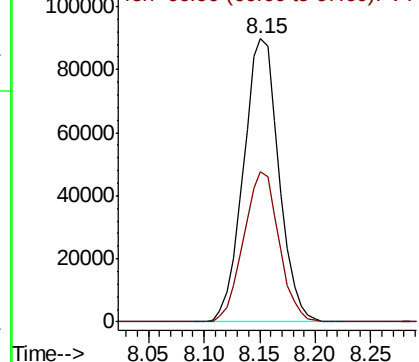
Ion Ratio Lower Upper

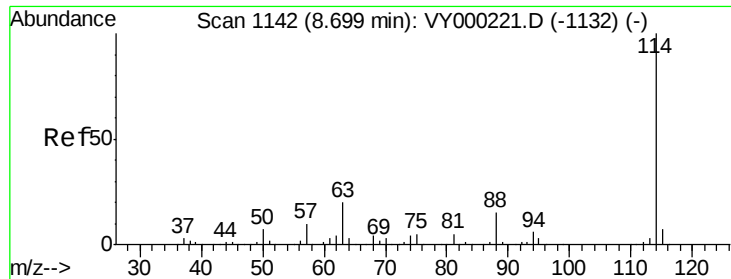
65 100

67 53.0 0.0 109.0



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

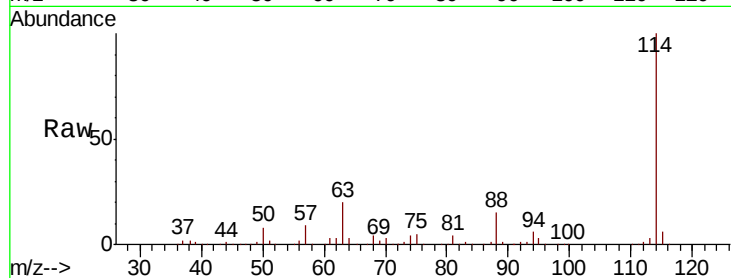




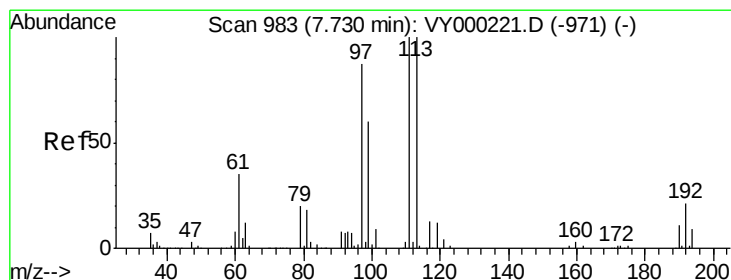
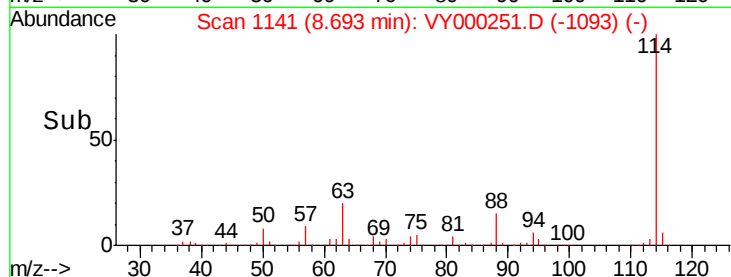
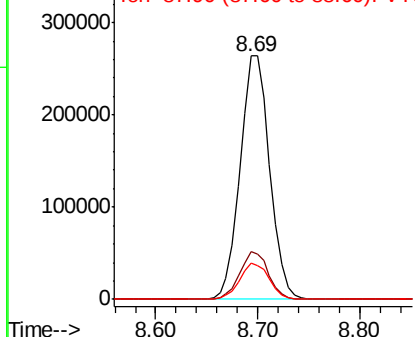
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.01 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:114 Resp: 529126  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 39.0  
 88 15.0 0.0 30.6

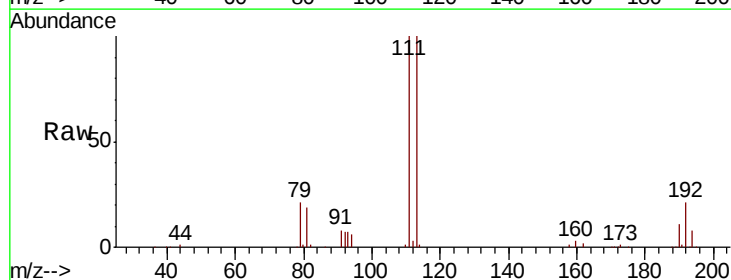


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

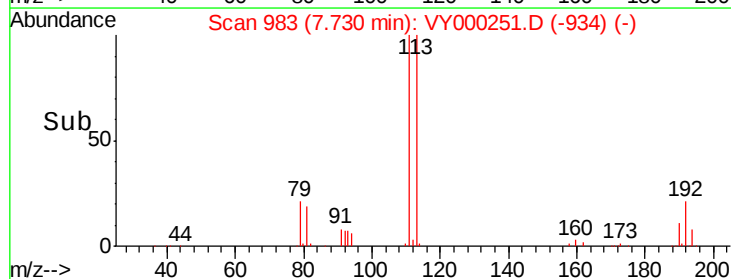
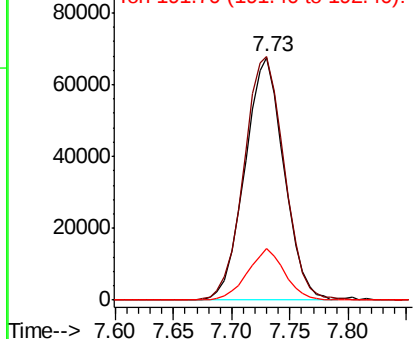


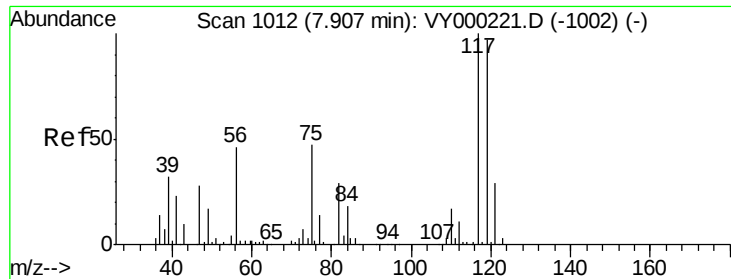
#35  
 Dibromofluoromethane  
 Concen: 47.733 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. 0.00 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

Tgt Ion:113 Resp: 157369  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 82.6 124.0  
 192 20.1 15.8 23.8



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

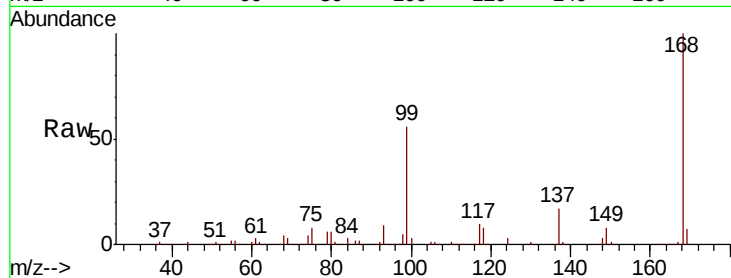




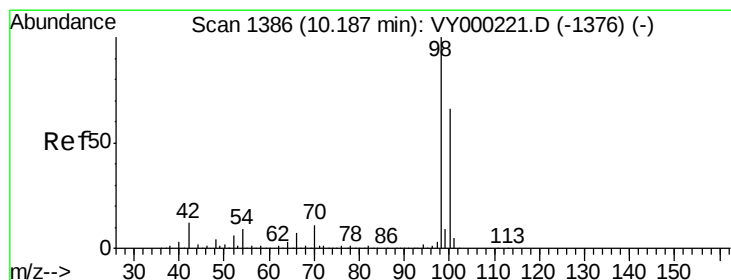
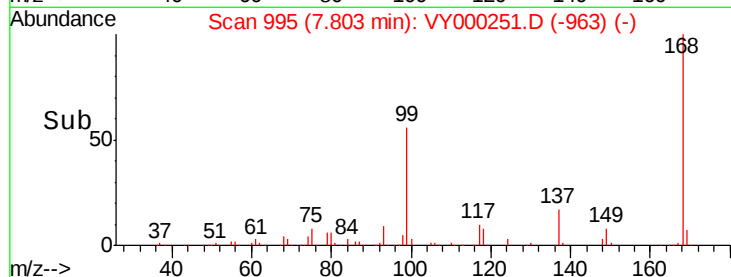
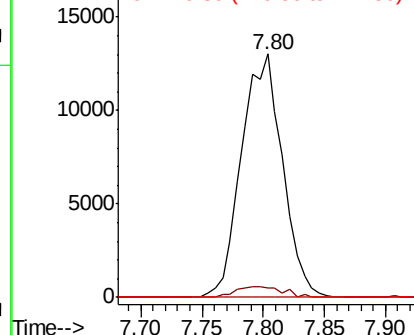
#38  
Carbon Tetrachloride  
Concen: 5.770 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. -0.10 min  
Lab File: VY000251.D  
Acq: 10 Oct 2019 14:31

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:117 Resp: 30275  
Ion Ratio Lower Upper  
117 100  
119 3.8 77.2 115.8#  
121 0.0 23.1 34.7#

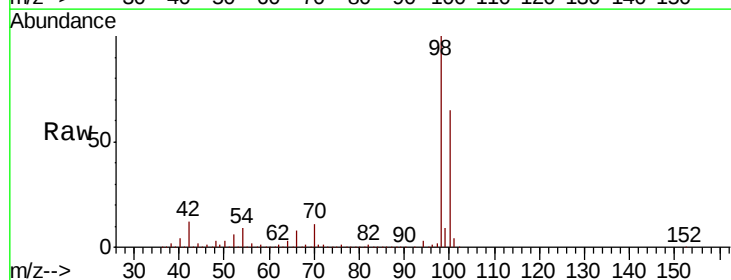


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

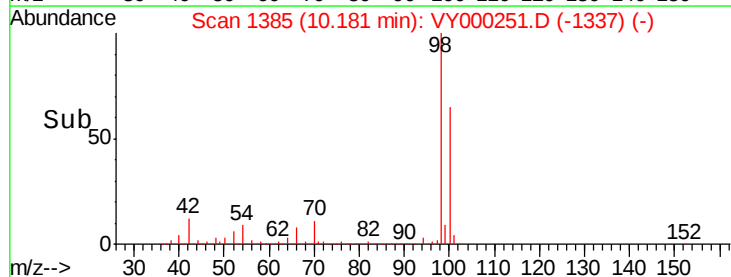
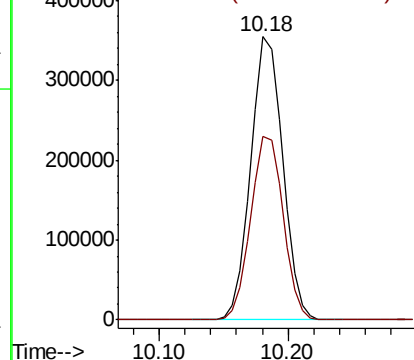


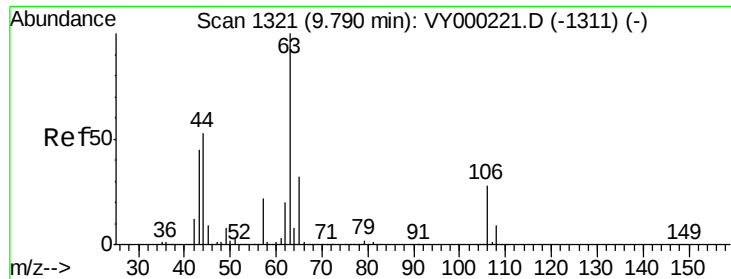
#50  
Toluene-d8  
Concen: 46.976 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. -0.01 min  
Lab File: VY000251.D  
Acq: 10 Oct 2019 14:31

Tgt Ion: 98 Resp: 608371  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.0 79.6



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

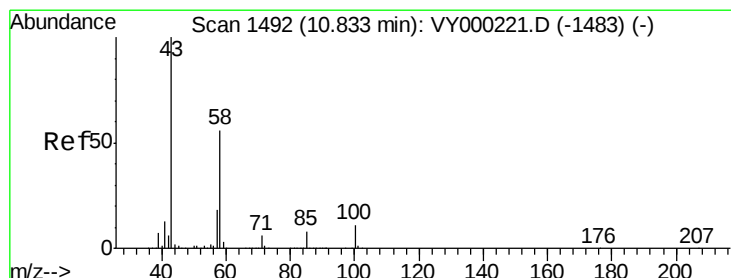
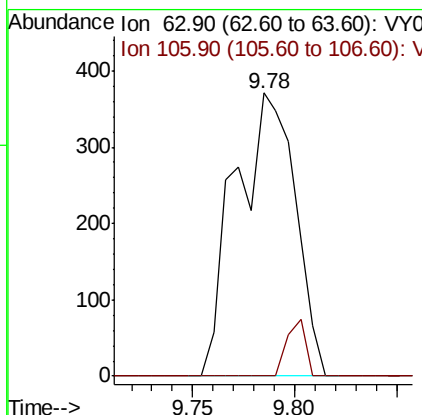
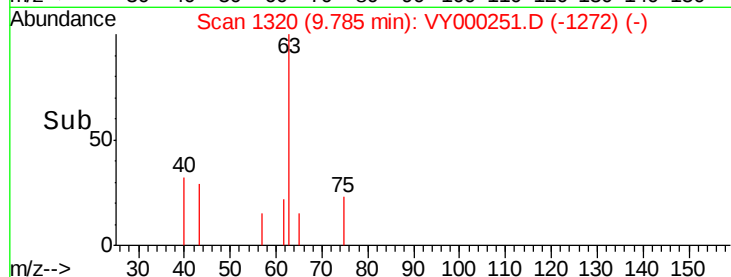
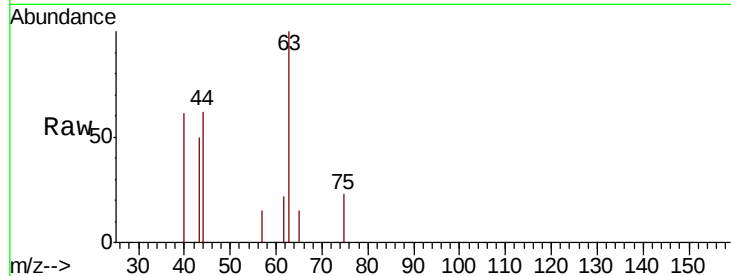




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 0.234 ug/l  
 RT: 9.78 min Scan# 1320  
 Delta R.T. -0.01 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

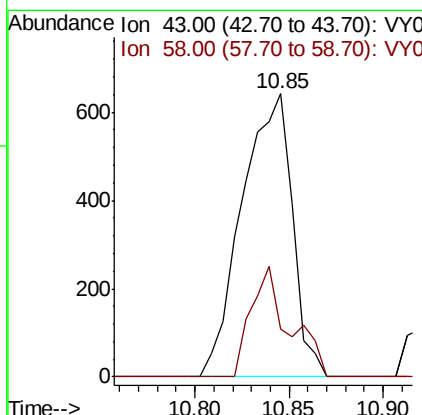
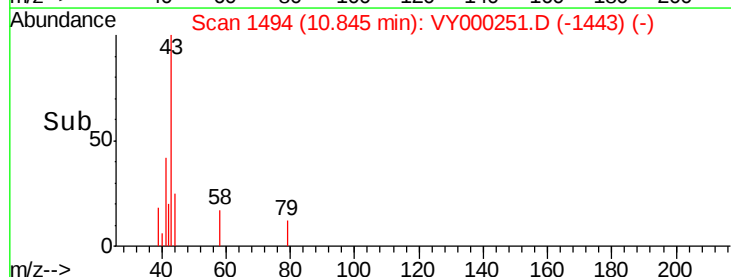
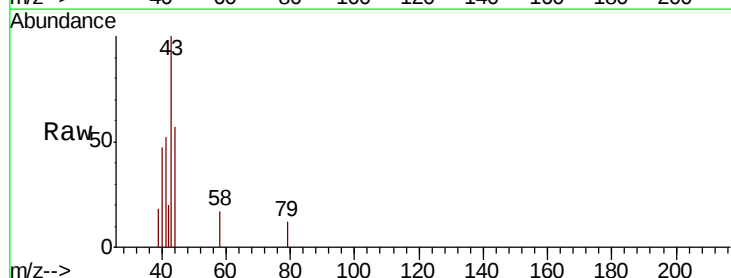
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

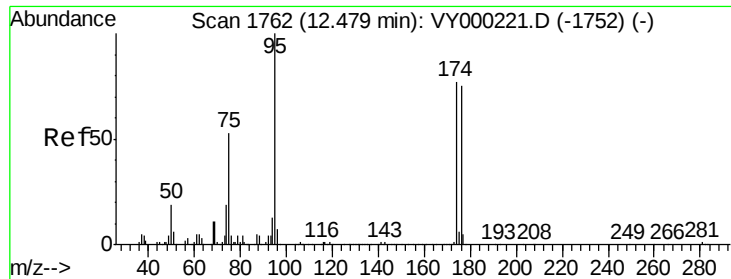
Tot Ion: 63 Resp: 759  
 Ion Ratio Lower Upper  
 63 100  
 106 6.3 22.6 33.8#



#59  
 2-Hexanone  
 Concen: Below Cal  
 RT: 10.85 min Scan# 1494  
 Delta R.T. 0.01 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

Tgt Ion: 43 Resp: 1188  
 Ion Ratio Lower Upper  
 43 100  
 58 29.9 28.2 84.6

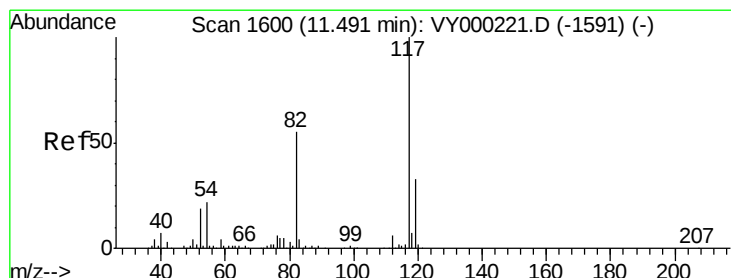
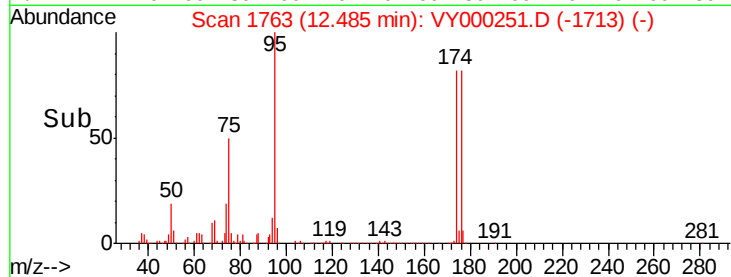
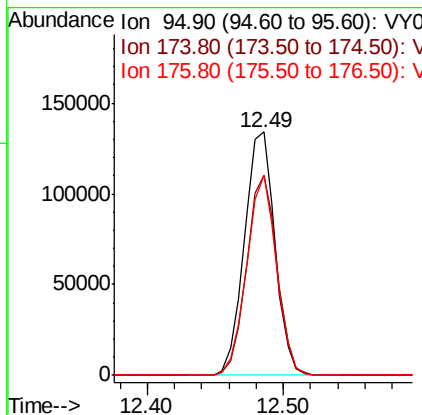
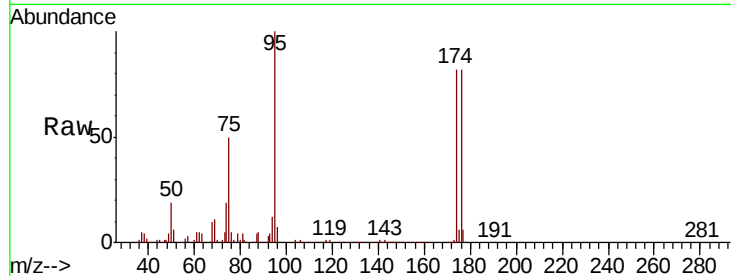




#62  
 4-Bromofluorobenzene  
 Concen: 46.082 ug/l  
 RT: 12.49 min Scan# 1763  
 Delta R.T. 0.01 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

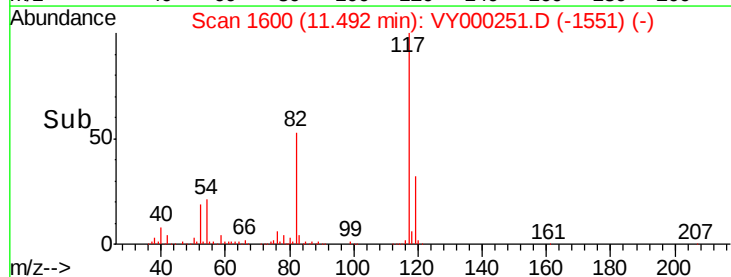
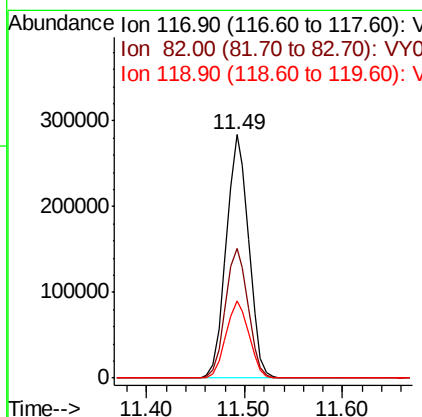
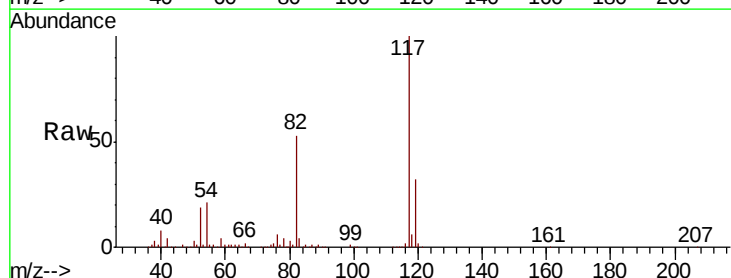
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

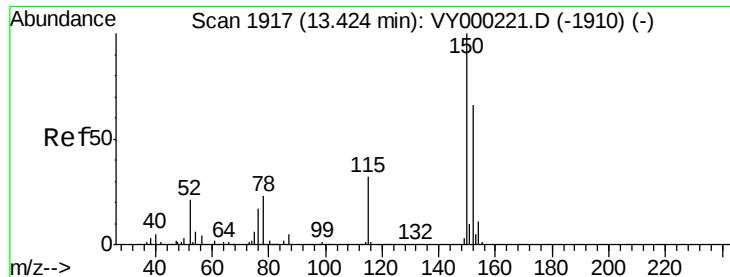
| Tot Ion   | 95    | Resp  | 210630 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 81.9  | 0.0   | 157.0  |
| 176       | 80.6  | 0.0   | 153.0  |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.49 min Scan# 1600  
 Delta R.T. 0.00 min  
 Lab File: VY000251.D  
 Acq: 10 Oct 2019 14:31

| Tgt Ion   | 117   | Resp  | 452949 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 53.4  | 44.4  | 66.6   |
| 119       | 31.9  | 26.2  | 39.2   |



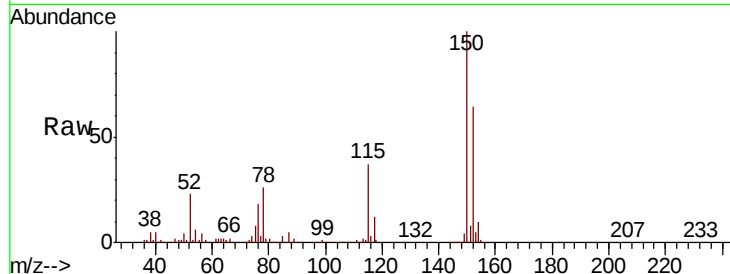


#72

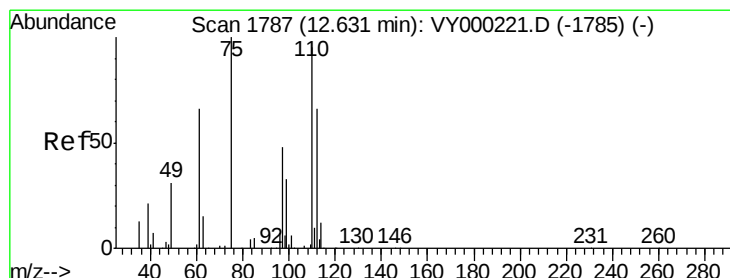
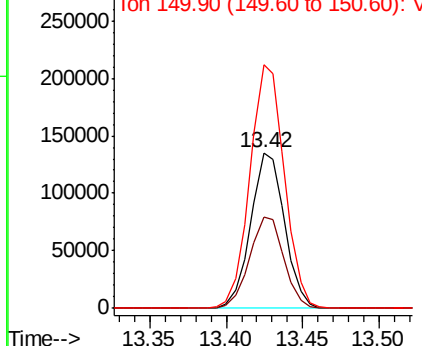
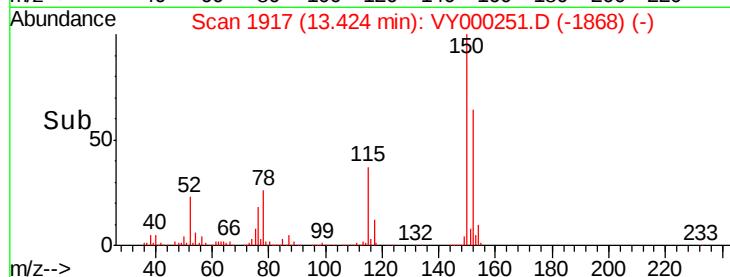
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY000251.D  
Acq: 10 Oct 2019 14:31

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.4  | 29.3  | 88.0  |
| 150     | 159.0 | 0.0   | 349.6 |



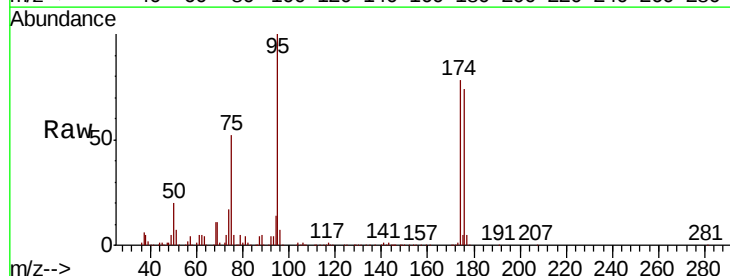
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



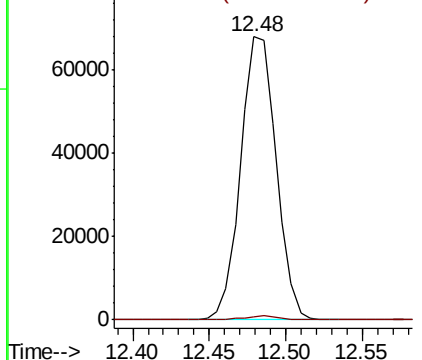
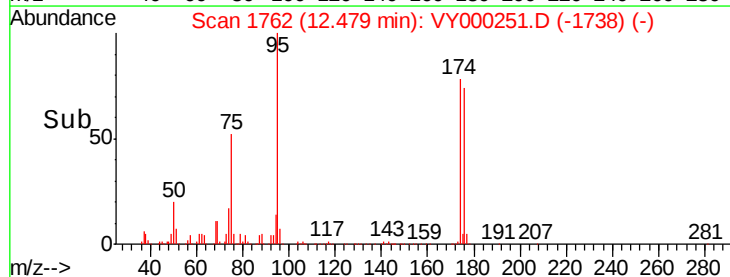
#76

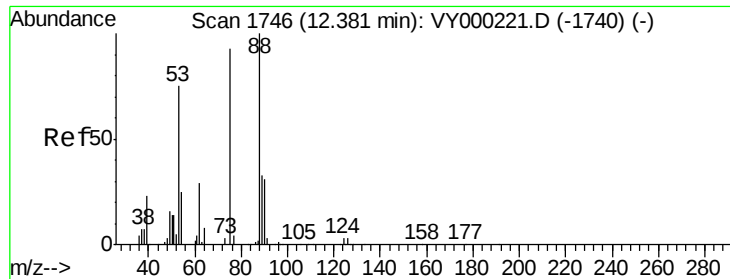
1,2,3-Trichloropropane  
Concen: 19.949 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY000251.D  
Acq: 10 Oct 2019 14:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.2   | 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: 38.903 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000251.D

Acq: 10 Oct 2019 14:31

Instrument :

MSVOA\_Y

ClientSampleId :

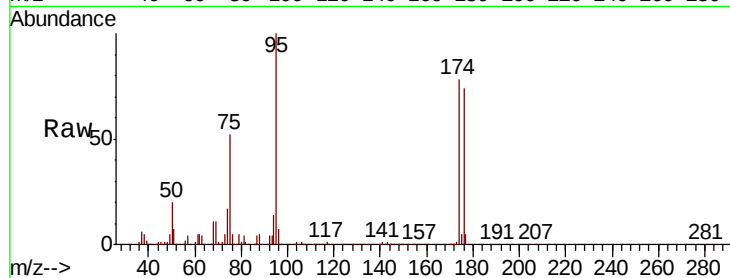
Tot Ion: 75 Resp: 109909

Ion Ratio Lower Upper

75 100

53 0.0 66.5 99.7#

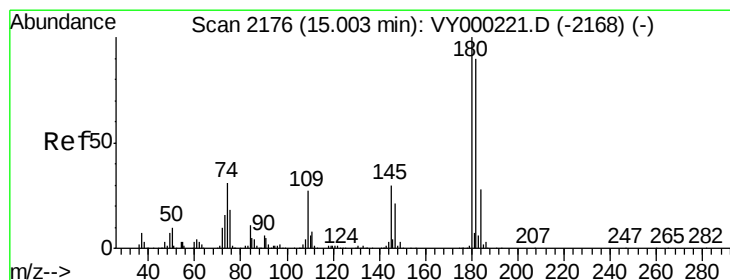
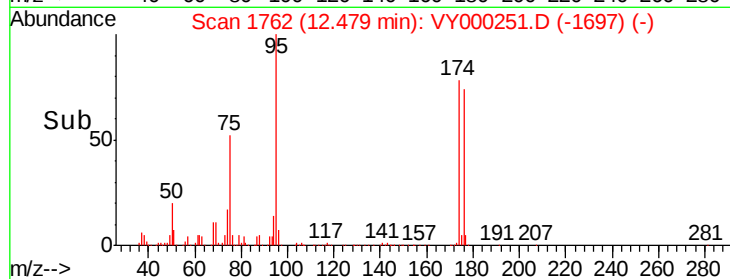
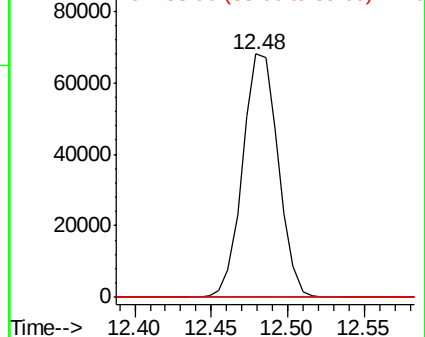
89 0.1 46.9 70.3#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.213 ug/l

RT: 15.00 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VY000251.D

Acq: 10 Oct 2019 14:31

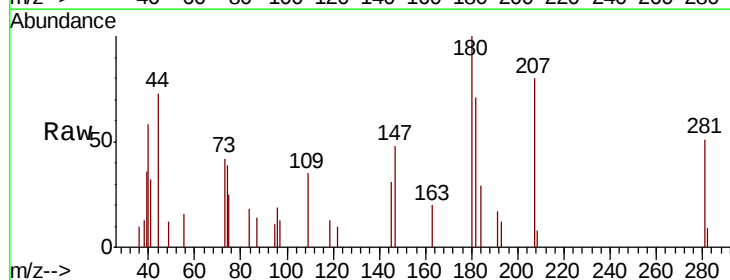
Tgt Ion:180 Resp: 1102

Ion Ratio Lower Upper

180 100

182 94.5 47.2 141.6

145 26.0 15.3 45.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

