

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121420\  
 Data File : VY003749.D  
 Acq On : 14 Dec 2020 14:42  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02596

Quant Time: Dec 15 03:23:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM121420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 14 13:46:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.69  | 114  | 343262   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 323600   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 164905   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.25   | 65    | 110211   | 23.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.12%  |
| 7) Chloroethane-d5             | 2.77   | 69    | 82204    | 23.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.16%  |
| 10) 1,1-Dichloroethene-d2      | 3.86   | 63    | 229333   | 23.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.20%  |
| 20) 2-Butanone-d5              | 6.91   | 46    | 103423   | 50.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.32% |
| 24) Chloroform-d               | 7.49   | 84    | 208627   | 23.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.60%  |
| 26) 1,2-Dichloroethane-d4      | 8.15   | 65    | 119911   | 23.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 95.16%  |
| 29) Benzene-d6                 | 8.12   | 84    | 437312   | 23.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.40%  |
| 33) 1,2-Dichloropropane-d6     | 9.12   | 67    | 135580   | 23.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.00%  |
| 37) Toluene-d8                 | 10.18  | 98    | 398226   | 23.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.96%  |
| 38) trans-1,3-Dichloropropene- | 10.44  | 79    | 67325    | 23.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.72%  |
| 39) 2-Hexanone-d5              | 10.79  | 63    | 81104    | 50.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 100.86% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.56  | 84    | 124299   | 24.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.52%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 145369   | 24.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 98.16%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.91 | 85  | 139992 | 23.897 | ug/L 100 |
| 3) Chloromethane               | 2.12 | 50  | 128618 | 24.034 | ug/L 97  |
| 5) Vinyl chloride              | 2.25 | 62  | 131822 | 24.520 | ug/L 100 |
| 6) Bromomethane                | 2.66 | 94  | 80845  | 24.596 | ug/L 100 |
| 8) Chloroethane                | 2.80 | 64  | 77862  | 24.786 | ug/L 96  |
| 9) Trichlorofluoromethane      | 3.13 | 101 | 198597 | 24.179 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 3.91 | 101 | 122328 | 24.510 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 3.88 | 96  | 116016 | 24.454 | ug/L 92  |
| 13) Acetone                    | 3.95 | 43  | 71755  | 50.980 | ug/L 100 |
| 14) Carbon disulfide           | 4.20 | 76  | 411708 | 24.663 | ug/L 99  |
| 15) Methyl Acetate             | 4.48 | 43  | 92258  | 25.166 | ug/L 99  |
| 16) Methylene chloride         | 4.73 | 84  | 144150 | 23.392 | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 5.23 | 73  | 340260 | 25.562 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 5.23 | 96  | 127397 | 24.788 | ug/L 97  |
| 19) 1,1-Dichloroethane         | 6.03 | 63  | 221176 | 24.884 | ug/L 99  |
| 21) 2-Butanone                 | 7.00 | 43  | 124173 | 50.755 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.00 | 96  | 136964 | 25.132 | ug/L 99  |

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 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

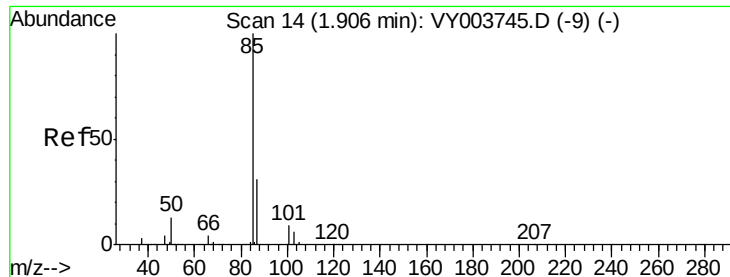
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02596

Quant Time: Dec 15 03:23:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM121420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 14 13:46:04 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.35  | 128  | 65580    | 25.033 | ug/L  | 95       |
| 25) Chloroform                  | 7.51  | 83   | 217383   | 24.870 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.25  | 62   | 152753   | 25.216 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.79  | 56   | 218575   | 24.607 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.71  | 97   | 195057   | 24.649 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 7.90  | 117  | 171138   | 24.493 | ug/L  | 99       |
| 34) Benzene                     | 8.17  | 78   | 511747   | 24.855 | ug/L  | 100      |
| 35) Trichloroethene             | 8.94  | 95   | 136325   | 24.668 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.19  | 83   | 231341   | 24.712 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.22  | 63   | 133762   | 25.066 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.50  | 83   | 167986   | 25.143 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene     | 9.93  | 75   | 214308   | 25.274 | ug/L  | 97       |
| 43) 4-Methyl-2-pentanone        | 10.07 | 43   | 265795   | 51.366 | ug/L  | 99       |
| 44) Toluene                     | 10.25 | 91   | 550506   | 25.172 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.47 | 75   | 199731   | 25.741 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.65 | 97   | 109137   | 25.253 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.72 | 164  | 108186   | 24.620 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.83 | 43   | 189780   | 53.444 | ug/L  | 99       |
| 50) Dibromochloromethane        | 10.98 | 129  | 129680   | 25.614 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.09 | 107  | 110296   | 25.760 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.51 | 112  | 348002   | 24.862 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.59 | 91   | 603185   | 25.243 | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.70 | 106  | 231113   | 25.075 | ug/L  | 95       |
| 55) o-xylene                    | 12.03 | 106  | 222255   | 25.696 | ug/L  | 96       |
| 56) Styrene                     | 12.04 | 104  | 384550   | 26.043 | ug/L  | 96       |
| 57) Isopropylbenzene            | 12.33 | 105  | 589673   | 25.532 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.58 | 83   | 129490   | 25.646 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 12.64 | 75   | 109091   | 25.611 | ug/L  | 100      |
| 62) Bromoform                   | 12.21 | 173  | 85873    | 25.291 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.37 | 146  | 274860   | 25.779 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.45 | 146  | 274909   | 25.367 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 13.74 | 146  | 253893   | 25.804 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.35 | 75   | 24963    | 25.805 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 14.50 | 180  | 193205   | 26.027 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.01 | 180  | 166340   | 26.271 | ug/L  | 98       |
| 69) Naphthalene                 | 15.23 | 128  | 393259   | 27.221 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.42 | 180  | 151629   | 26.331 | ug/L  | 97       |

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





#2

Dichlorodifluoromethane

Concen: 23.897 ug/L

RT: 1.91 min Scan# 14

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

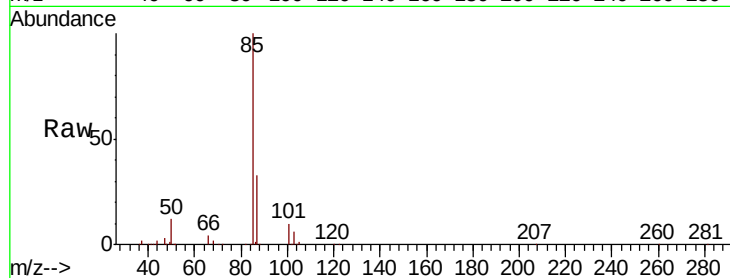
VSTD02596

Tot Ion: 85 Resp: 139992

Ion Ratio Lower Upper

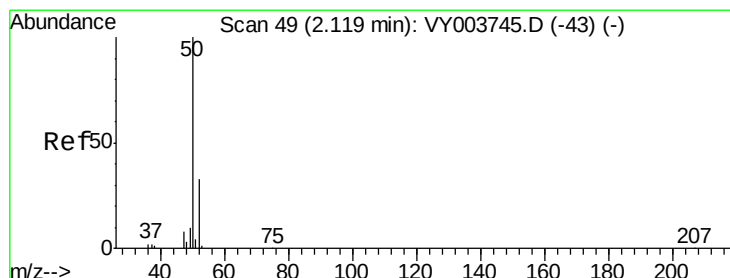
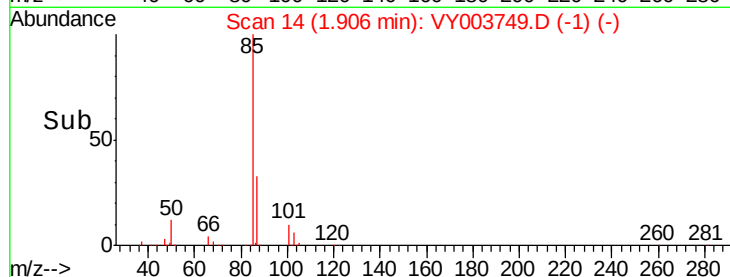
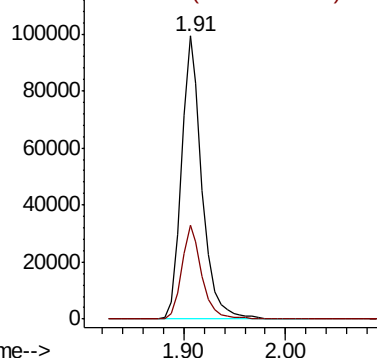
85 100

87 32.5 22.7 42.3



Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 24.034 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003749.D

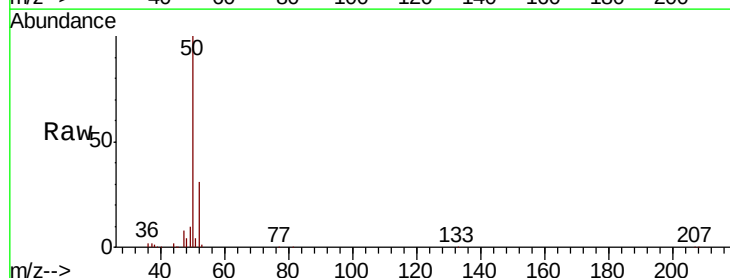
Acq: 14 Dec 2020 14:42

Tgt Ion: 50 Resp: 128618

Ion Ratio Lower Upper

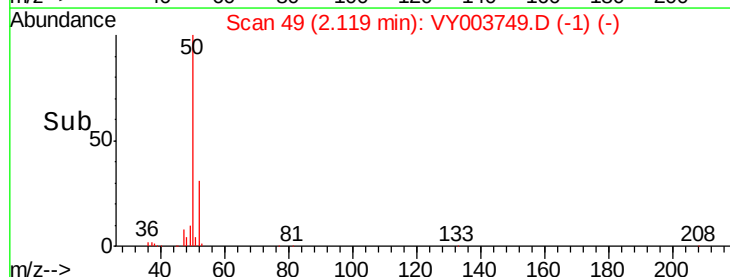
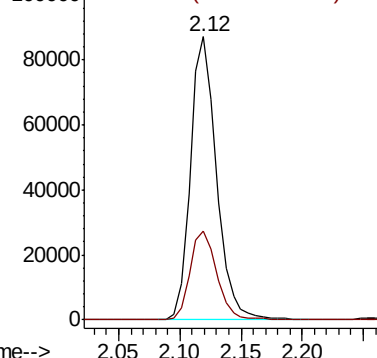
50 100

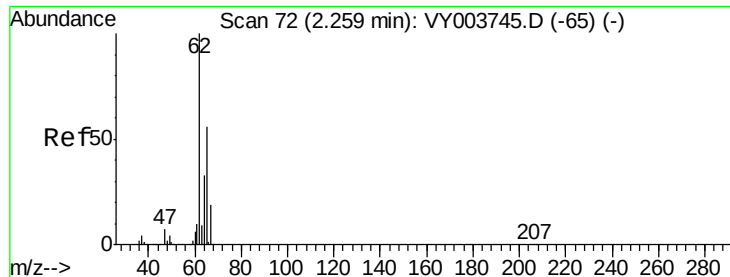
52 31.2 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 24.520 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.01 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

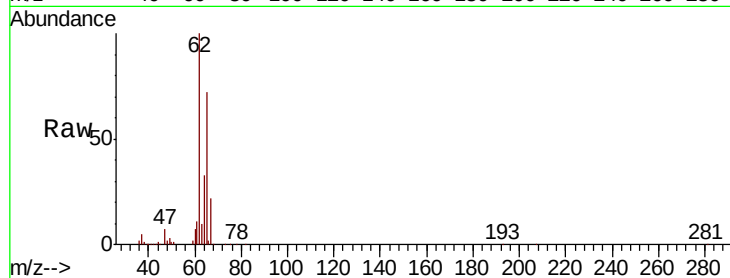
VSTD02596

Tot Ion: 62 Resp: 131822

Ion Ratio Lower Upper

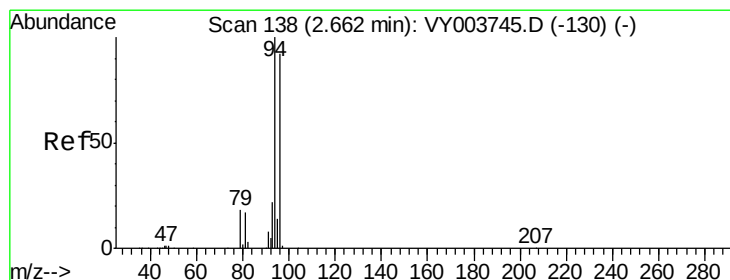
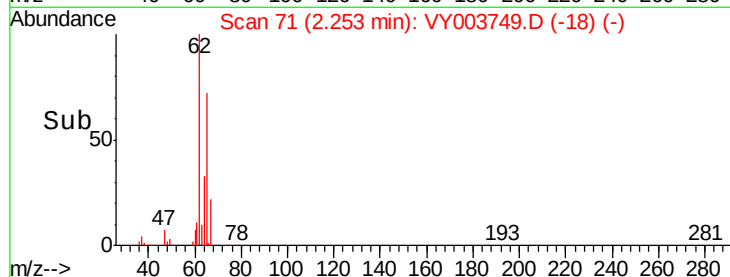
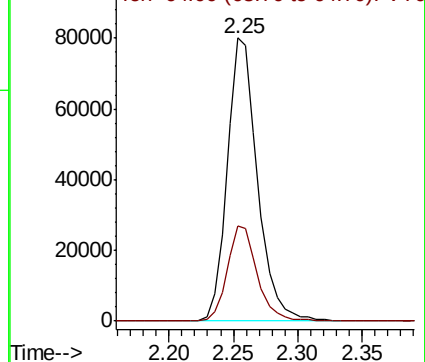
62 100

64 33.5 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 24.596 ug/L

RT: 2.66 min Scan# 137

Delta R.T. -0.01 min

Lab File: VY003749.D

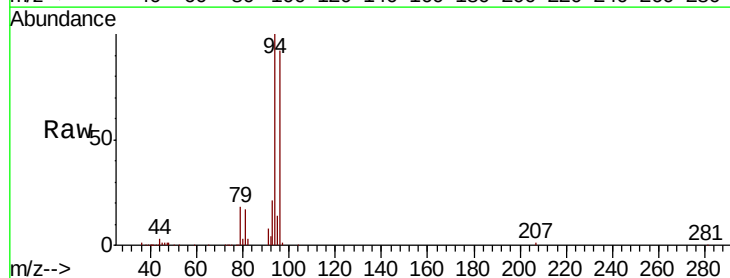
Acq: 14 Dec 2020 14:42

Tgt Ion: 94 Resp: 80845

Ion Ratio Lower Upper

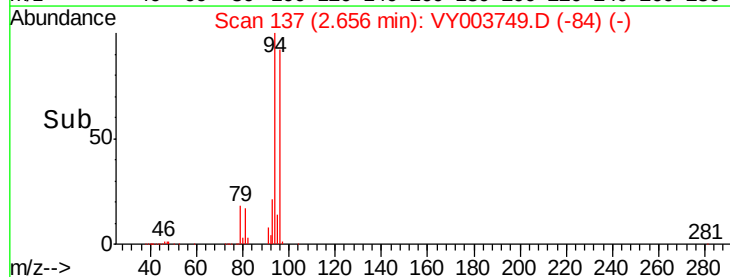
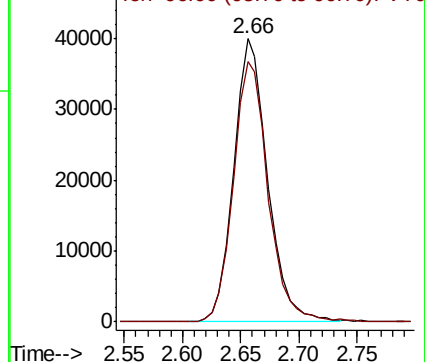
94 100

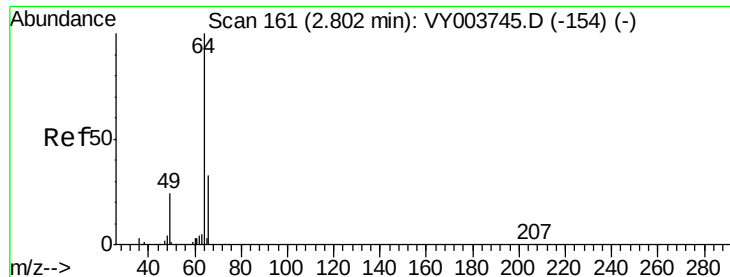
96 93.6 9.3 177.5



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0

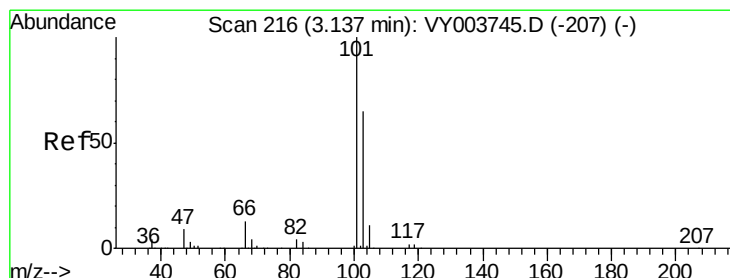
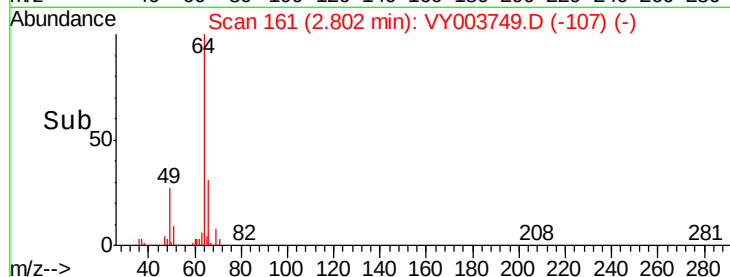
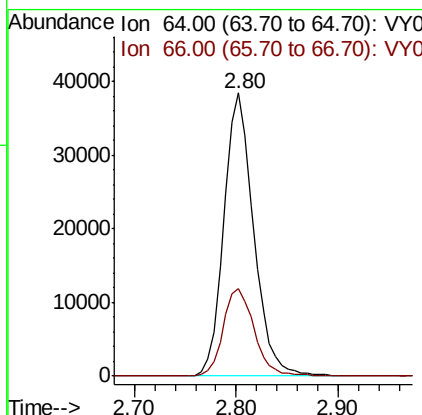
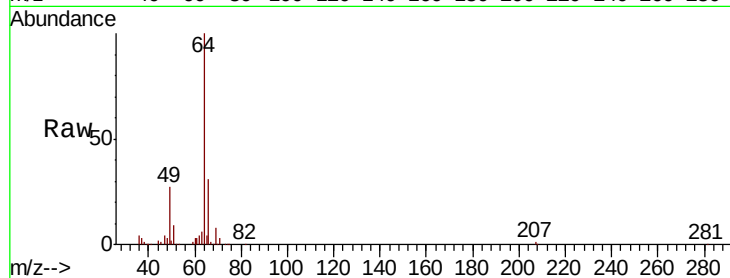




#8  
Chloroethane  
Concen: 24.786 ug/L  
RT: 2.80 min Scan# 161  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

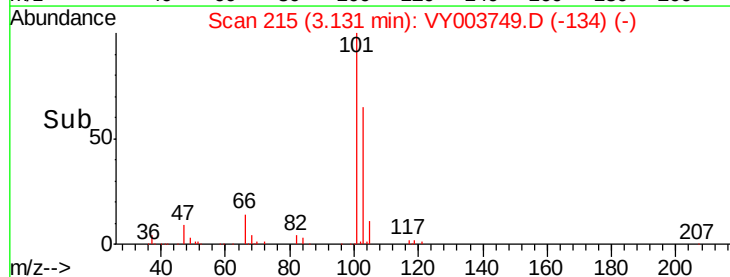
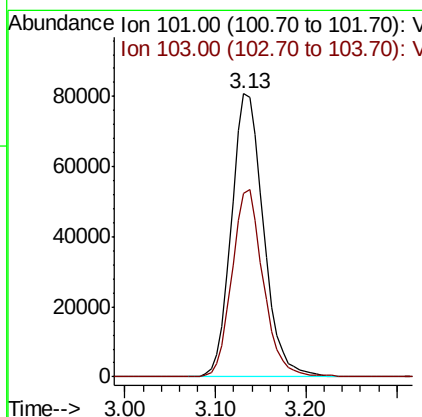
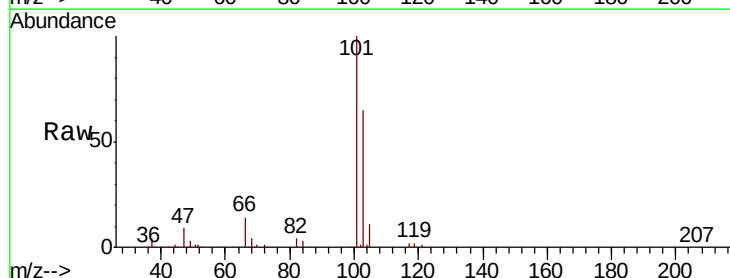
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02596

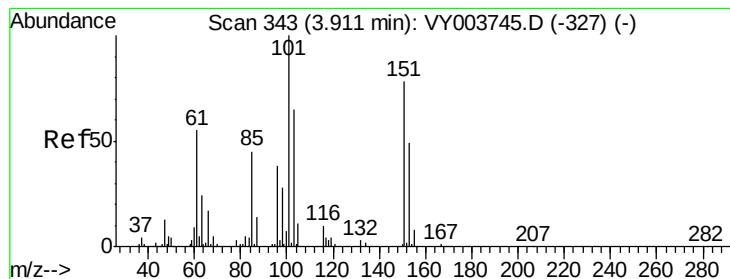
Tot Ion: 64 Resp: 77862  
Ion Ratio Lower Upper  
64 100  
66 31.0 23.1 42.9



#9  
Trichlorofluoromethane  
Concen: 24.179 ug/L  
RT: 3.13 min Scan# 215  
Delta R.T. -0.01 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

Tgt Ion: 101 Resp: 198597  
Ion Ratio Lower Upper  
101 100  
103 64.5 45.3 84.1





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 24.510 ug/L

RT: 3.91 min Scan# 342

Delta R.T. -0.01 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02596

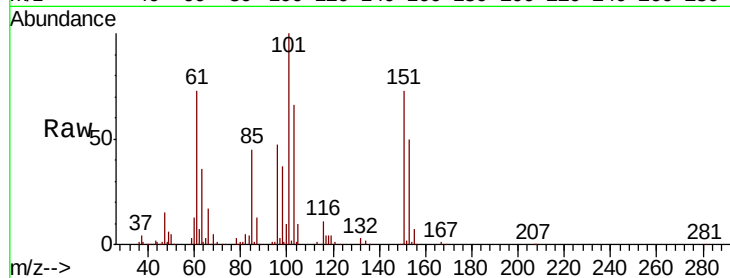
Tot Ion:101 Resp: 122328

Ion Ratio Lower Upper

101 100

85 43.5 33.8 50.6

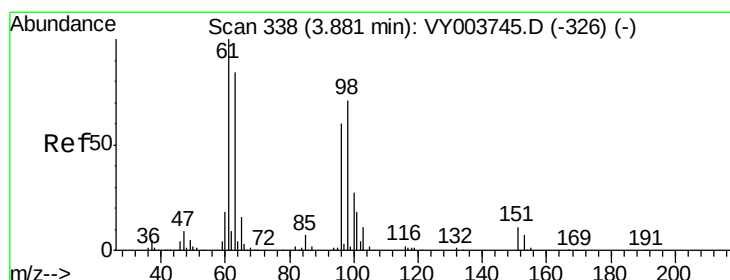
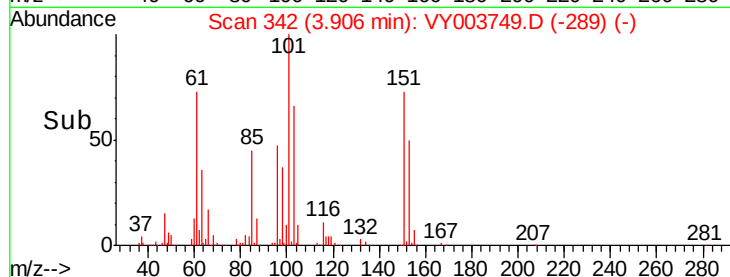
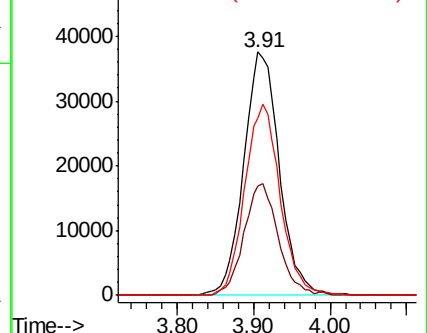
151 77.7 62.1 93.1



Abundance Ion 101.00 (100.70 to 101.70): VY003749.D (-289) (-)

Ion 85.00 (84.70 to 85.70): VY003749.D (-289) (-)

Ion 151.00 (150.70 to 151.70): VY003749.D (-289) (-)



#12

1,1-Dichloroethene

Concen: 24.454 ug/L

RT: 3.88 min Scan# 338

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

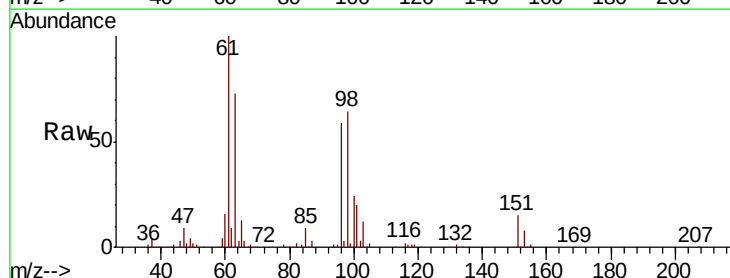
Tgt Ion: 96 Resp: 116016

Ion Ratio Lower Upper

96 100

61 170.5 117.3 217.9

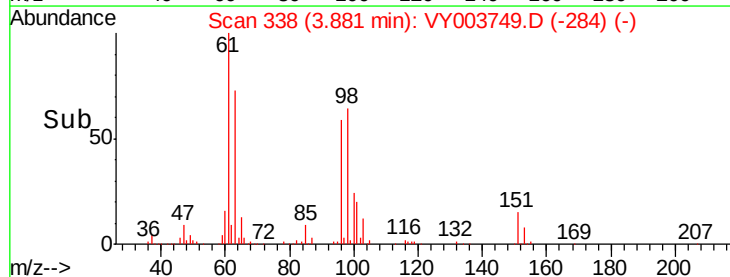
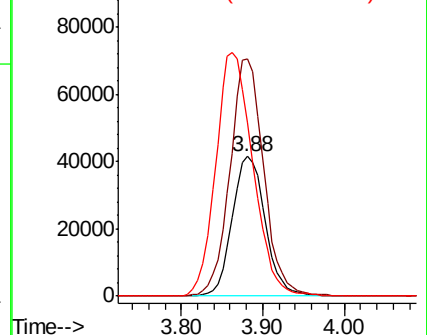
63 124.0 99.5 184.7

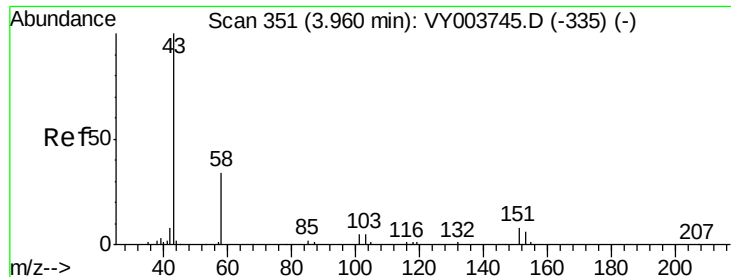


Abundance Ion 96.00 (95.70 to 96.70): VY003749.D (-284) (-)

Ion 61.00 (60.70 to 61.70): VY003749.D (-284) (-)

Ion 63.00 (62.70 to 63.70): VY003749.D (-284) (-)





#13

Acetone

Concen: 50.980 ug/L

RT: 3.95 min Scan# 350

Delta R.T. -0.01 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

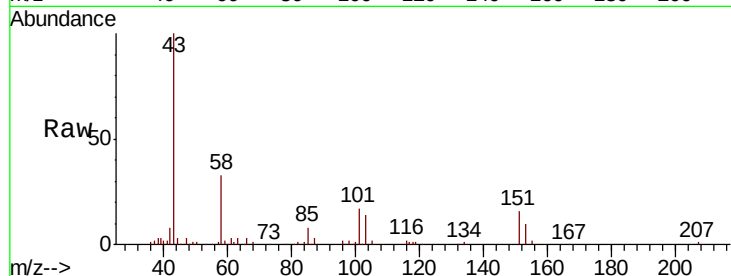
VSTD02596

Tot Ion: 43 Resp: 71755

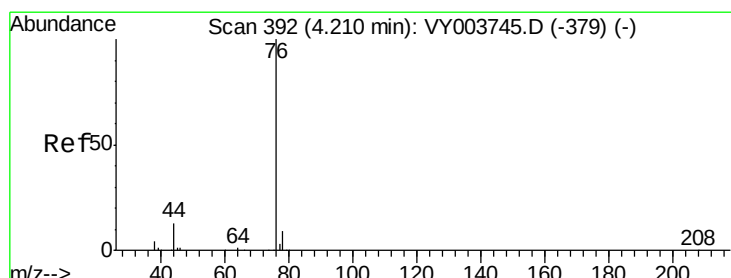
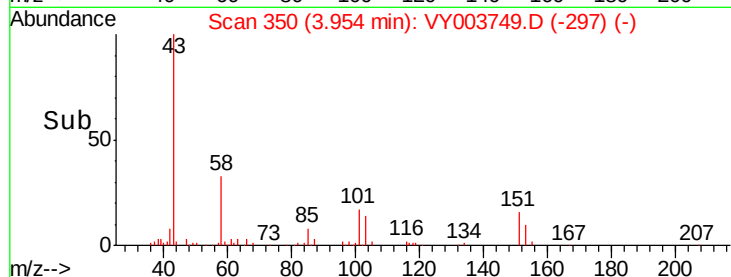
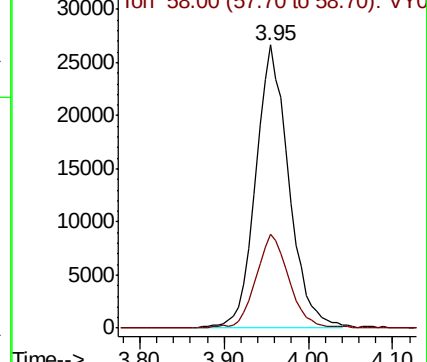
Ion Ratio Lower Upper

43 100

58 32.5 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VY003745.D (-335) (-)



#14

Carbon disulfide

Concen: 24.663 ug/L

RT: 4.20 min Scan# 391

Delta R.T. -0.01 min

Lab File: VY003749.D

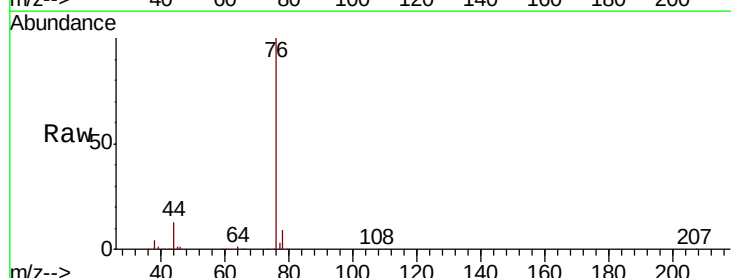
Acq: 14 Dec 2020 14:42

Tgt Ion: 76 Resp: 411708

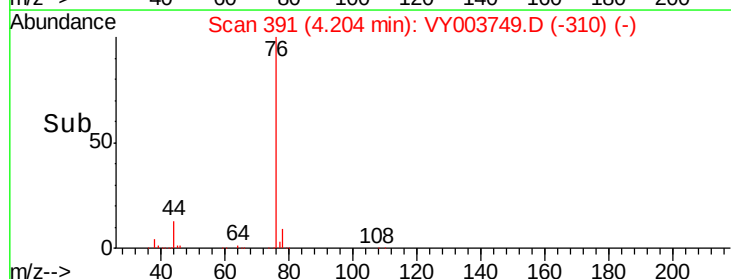
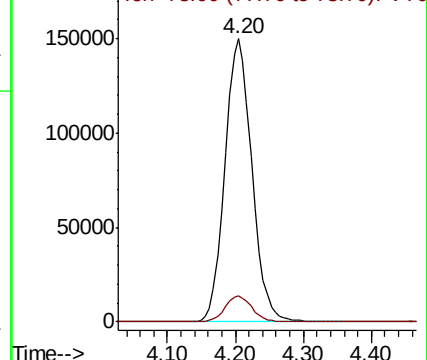
Ion Ratio Lower Upper

76 100

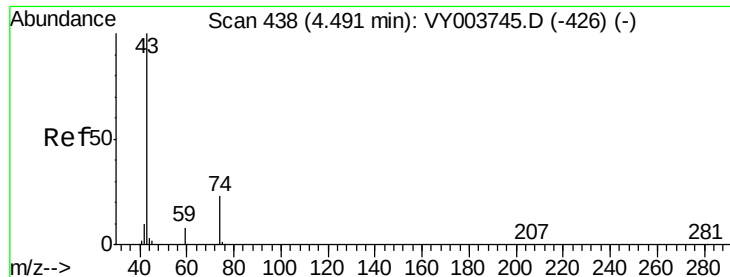
78 9.2 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VY003745.D (-379) (-)



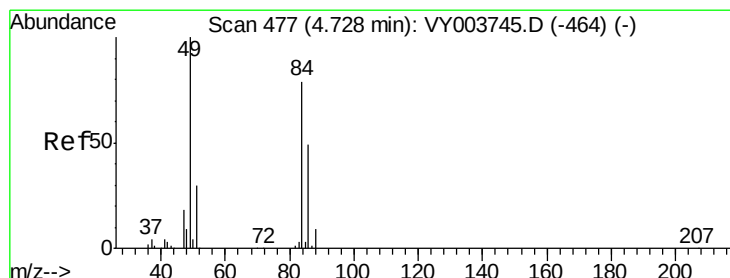
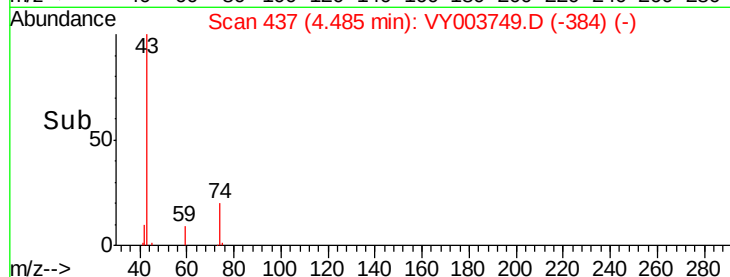
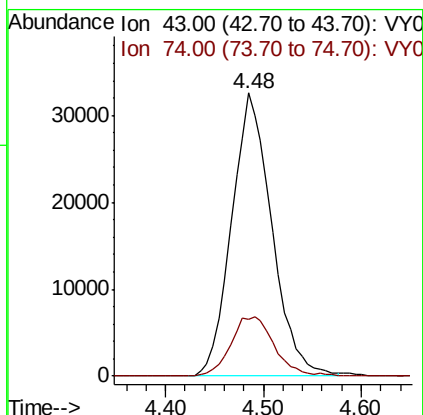
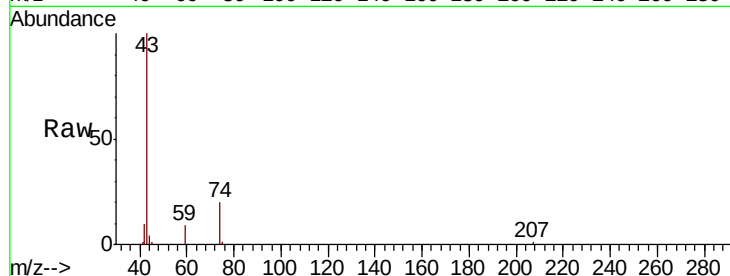




#15  
Methvl Acetate  
Concen: 25.166 ug/L  
RT: 4.48 min Scan# 437  
Delta R.T. -0.01 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

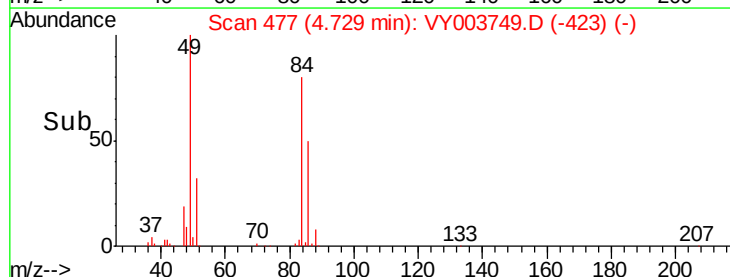
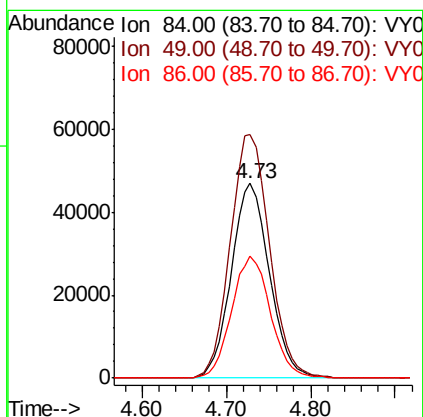
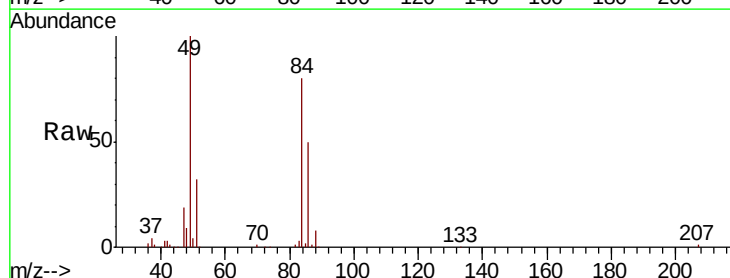
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02596

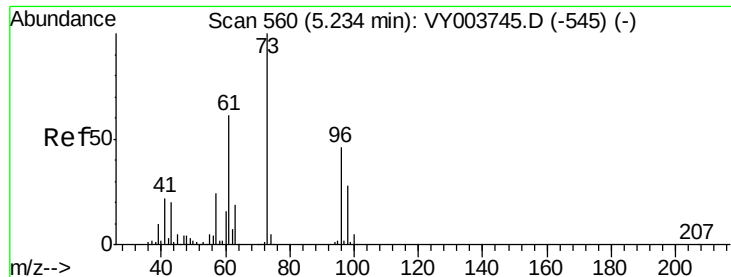
Tot Ion: 43 Resp: 92258  
Ion Ratio Lower Upper  
43 100  
74 22.4 17.7 26.5



#16  
Methylene chloride  
Concen: 23.392 ug/L  
RT: 4.73 min Scan# 477  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

Tgt Ion: 84 Resp: 144150  
Ion Ratio Lower Upper  
84 100  
49 124.9 88.2 163.8  
86 62.4 43.0 79.8

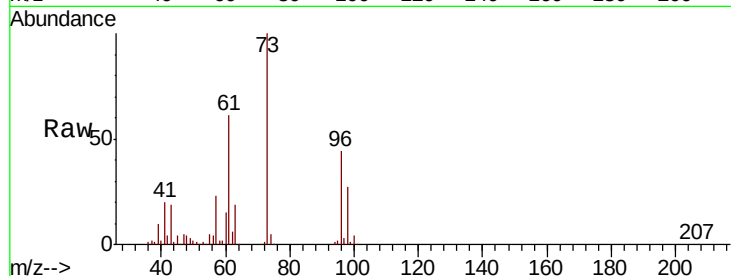




#17  
Methvl tert-butyl Ether  
Concen: 25.562 ug/L  
RT: 5.23 min Scan# 559  
Delta R.T. -0.01 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02596

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 19.4  | 15.5  | 23.3  |
| 57      | 22.6  | 18.6  | 27.8  |

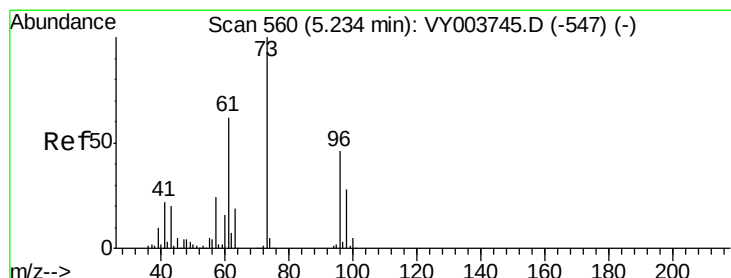
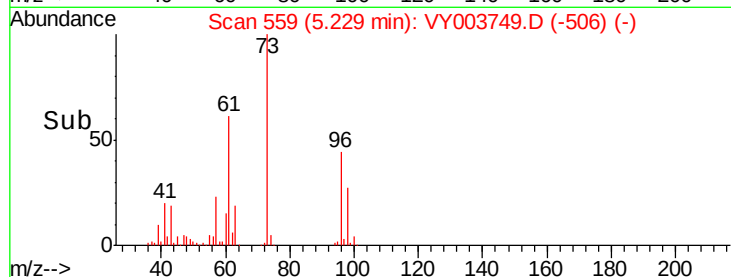
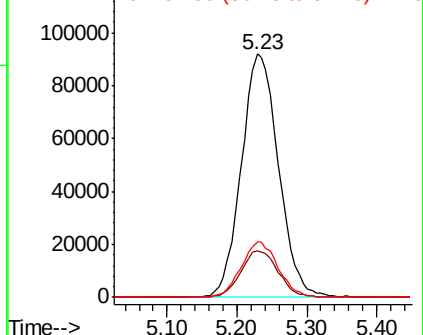


Abundance

Ion 73.00 (72.70 to 73.70): VY0

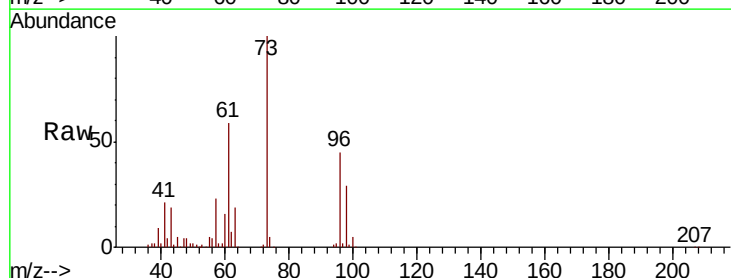
Ion 43.00 (42.70 to 43.70): VY0

Ion 57.00 (56.70 to 57.70): VY0



#18  
trans-1,2-Dichloroethene  
Concen: 24.788 ug/L  
RT: 5.23 min Scan# 560  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 131.1 | 93.9  | 174.5 |
| 98      | 64.4  | 43.5  | 80.7  |

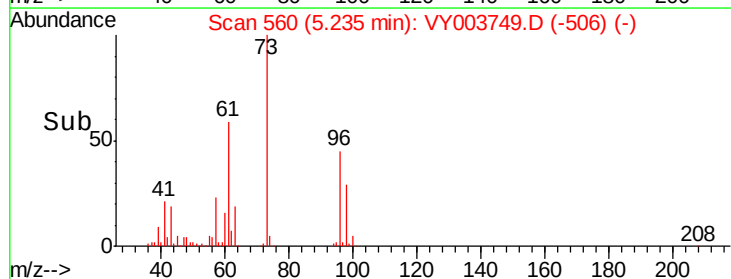
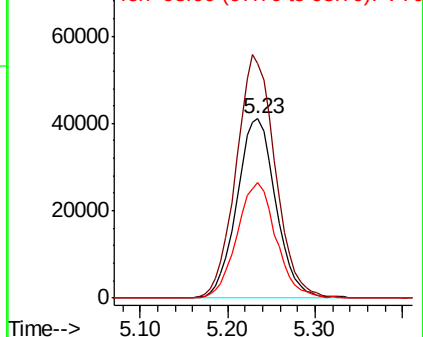


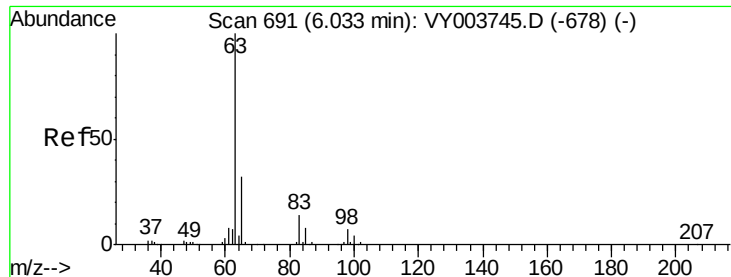
Abundance

Ion 96.00 (95.70 to 96.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

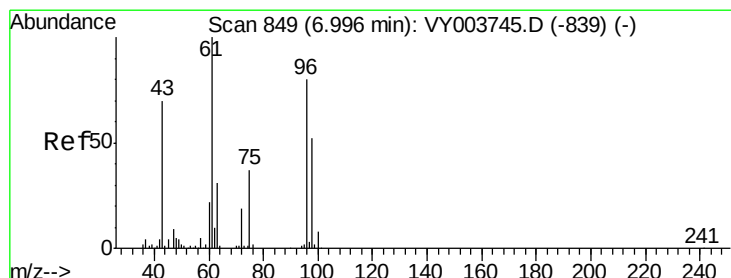
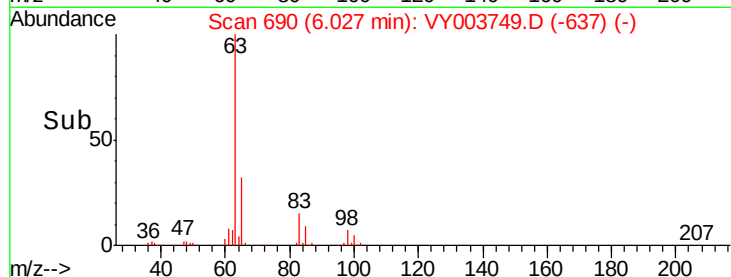
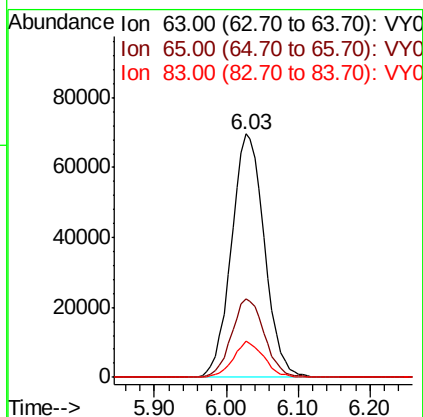
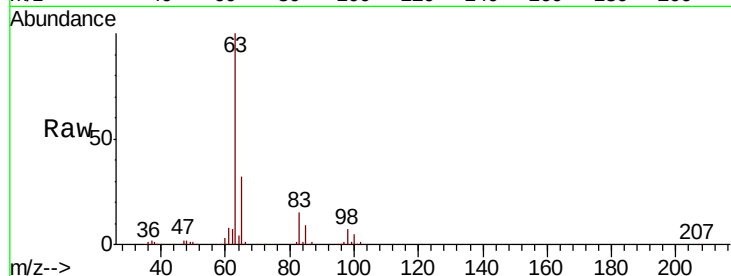




#19  
 1,1-Dichloroethane  
 Concen: 24.884 ug/L  
 RT: 6.03 min Scan# 690  
 Delta R.T. -0.01 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

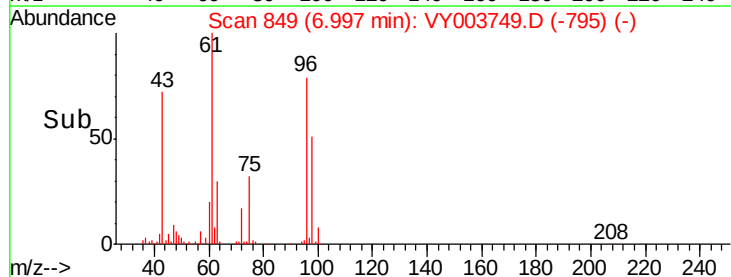
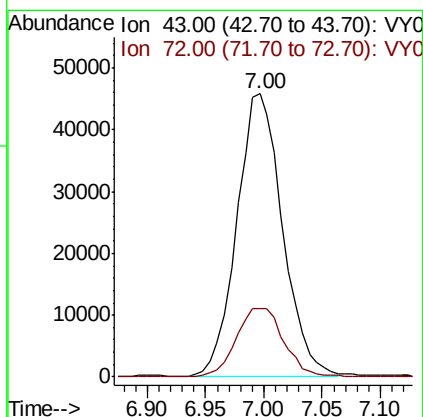
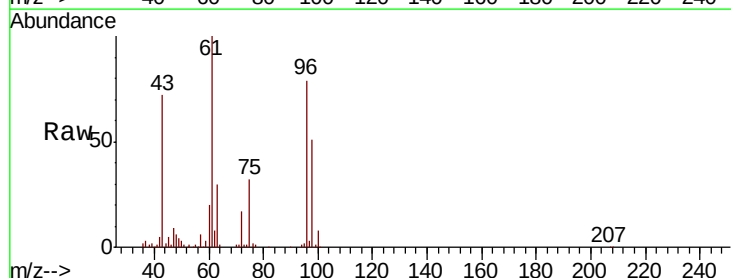
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02596

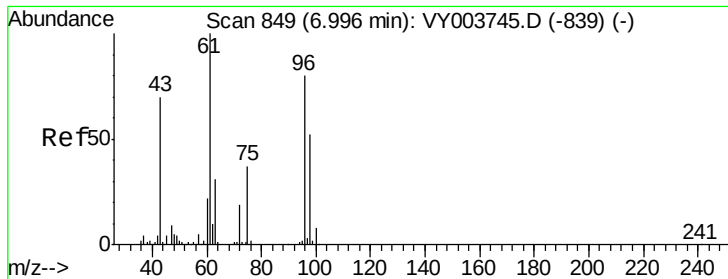
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.1  | 22.3  | 41.3  |
| 83      | 14.7  | 9.4   | 17.6  |



#21  
 2-Butanone  
 Concen: 50.755 ug/L  
 RT: 7.00 min Scan# 849  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 25.4  | 13.0  | 39.0  |



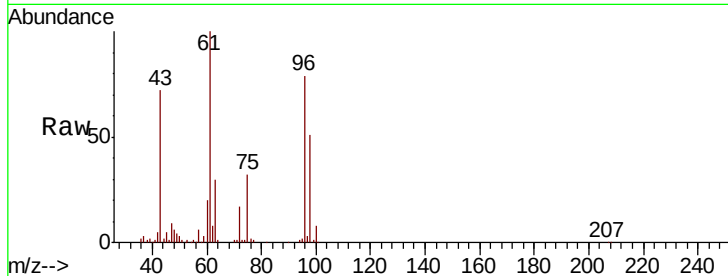


#22

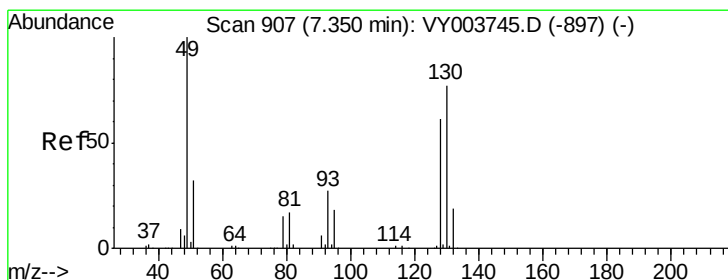
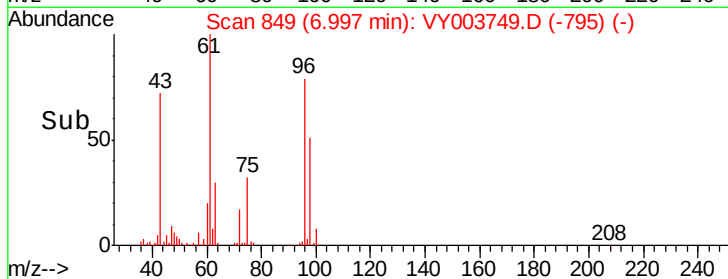
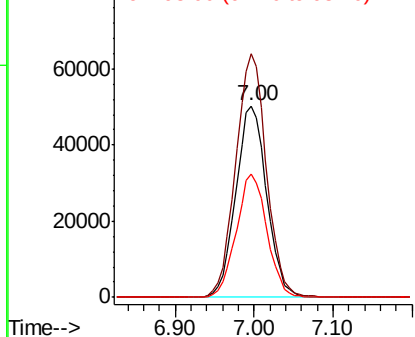
cis-1,2-Dichloroethene  
Concen: 25.132 ug/L  
RT: 7.00 min Scan# 849  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02596

Tot Ion: 96 Resp: 136964  
Ion Ratio Lower Upper  
96 100  
61 127.3 88.0 163.4  
98 64.6 45.4 84.4



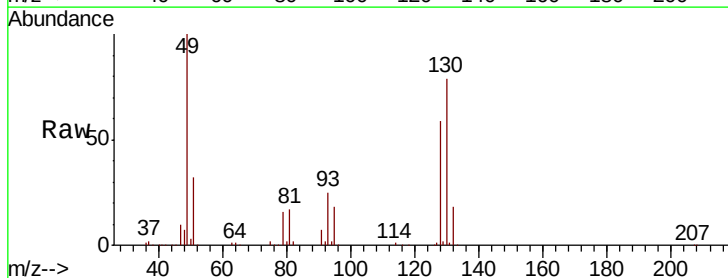
Abundance Ion 96.00 (95.70 to 96.70): VY0  
Ion 61.00 (60.70 to 61.70): VY0  
Ion 98.00 (97.70 to 98.70): VY0



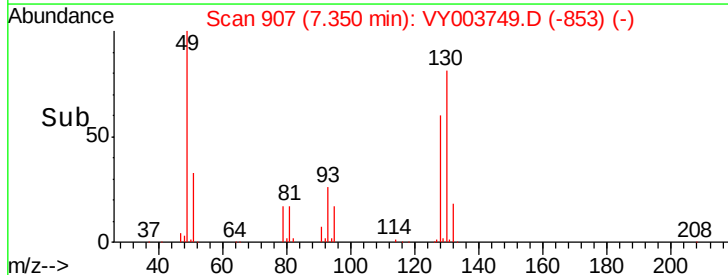
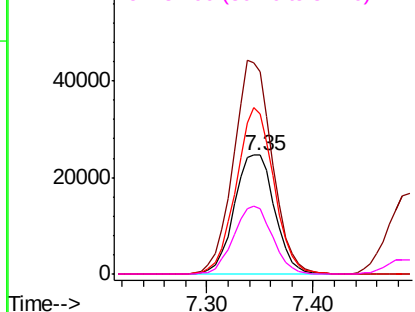
#23

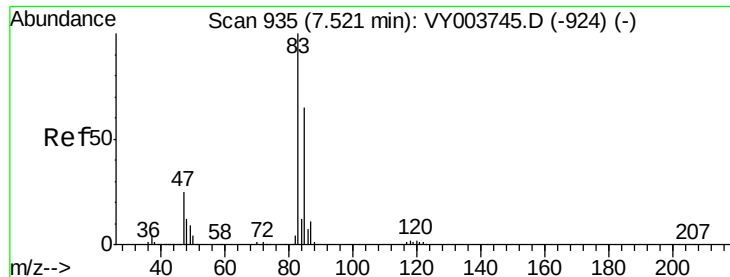
Bromochloromethane  
Concen: 25.033 ug/L  
RT: 7.35 min Scan# 907  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

Tgt Ion: 128 Resp: 65580  
Ion Ratio Lower Upper  
128 100  
49 170.3 115.1 213.8  
130 134.5 88.9 165.1  
51 55.1 41.6 62.4



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VY0  
Ion 130.00 (129.70 to 130.70): V  
Ion 51.00 (50.70 to 51.70): VY0





#25

Chloroform

Concen: 24.870 ug/L

RT: 7.51 min Scan# 934

Delta R.T. -0.01 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

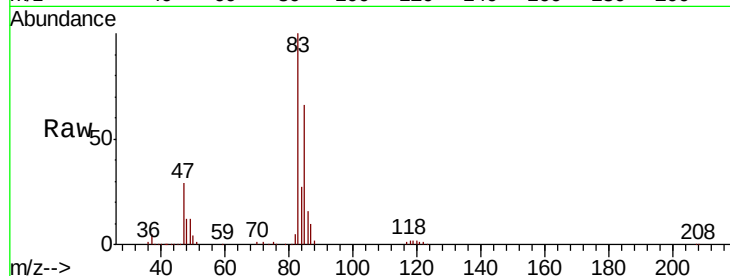
VSTD02596

Tot Ion: 83 Resp: 217383

Ion Ratio Lower Upper

83 100

85 66.7 46.5 86.3



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

7.51

100000

80000

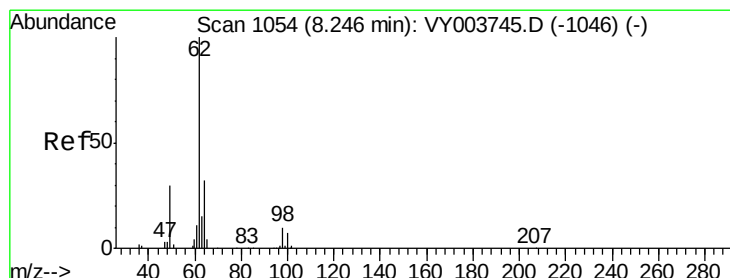
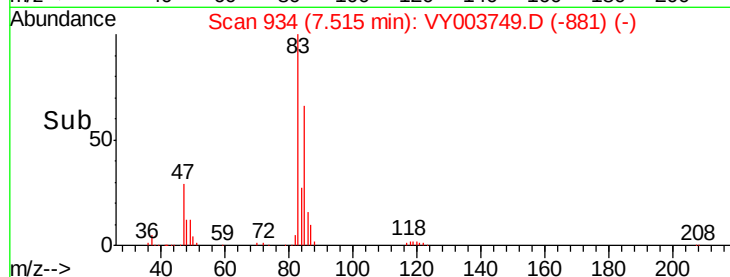
60000

40000

20000

0

Time-->



#27

1,2-Dichloroethane

Concen: 25.216 ug/L

RT: 8.25 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VY003749.D

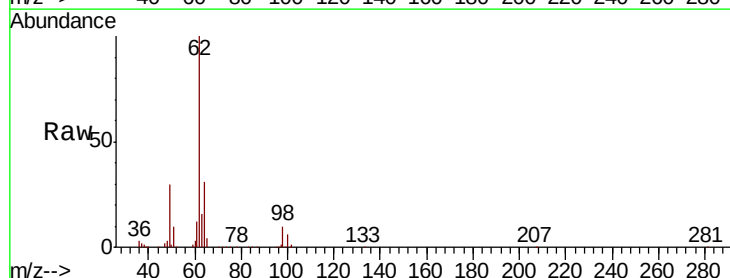
Acq: 14 Dec 2020 14:42

Tgt Ion: 62 Resp: 152753

Ion Ratio Lower Upper

62 100

98 9.6 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

8.25

80000

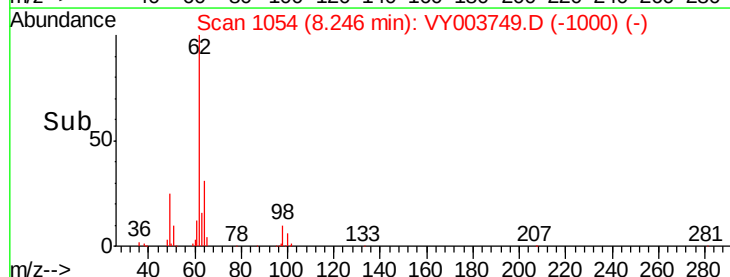
60000

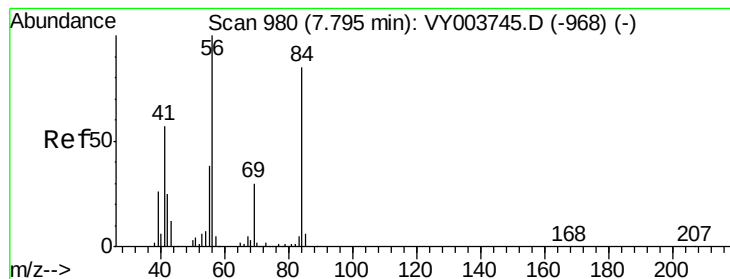
40000

20000

0

Time-->





#30

Cyclohexane

Concen: 24.607 ug/L

RT: 7.79 min Scan# 979

Delta R.T. -0.01 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02596

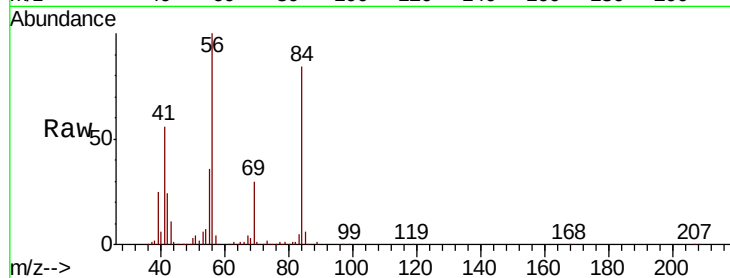
Tot Ion: 56 Resp: 218575

Ion Ratio Lower Upper

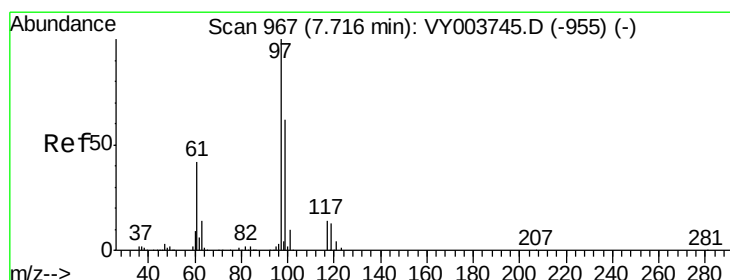
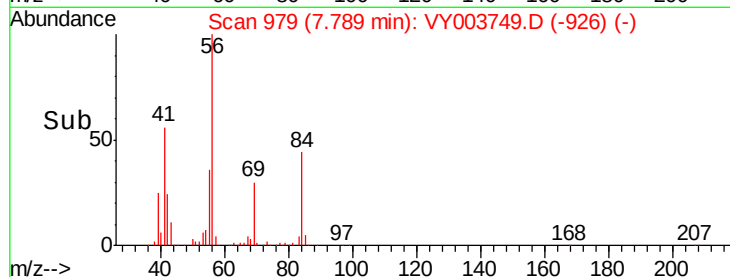
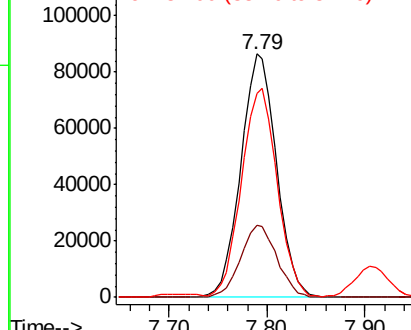
56 100

69 30.0 23.4 35.0

84 86.5 68.6 103.0



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



#31

1,1,1-Trichloroethane

Concen: 24.649 ug/L

RT: 7.71 min Scan# 966

Delta R.T. -0.01 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

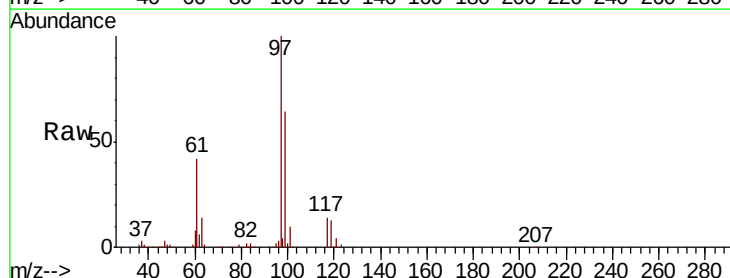
Tgt Ion: 97 Resp: 195057

Ion Ratio Lower Upper

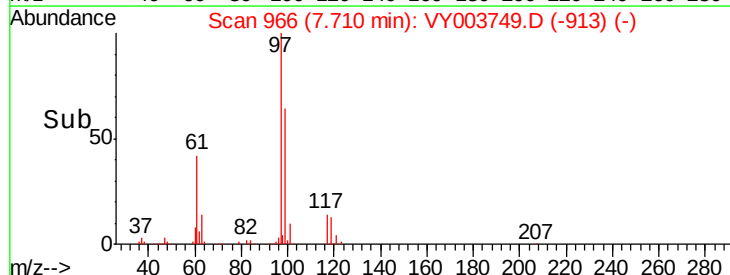
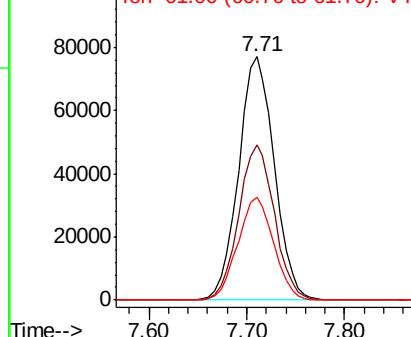
97 100

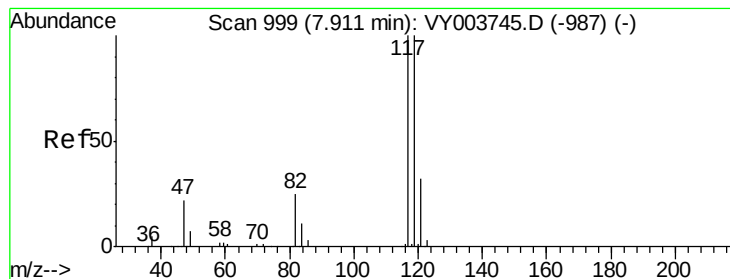
99 63.6 50.8 76.2

61 42.5 34.1 51.1



Abundance Ion 97.00 (96.70 to 97.70): VY0  
Ion 99.00 (98.70 to 99.70): VY0  
Ion 61.00 (60.70 to 61.70): VY0





#32

Carbon tetrachloride

Concen: 24.493 ug/L

RT: 7.90 min Scan# 998

Delta R.T. -0.01 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

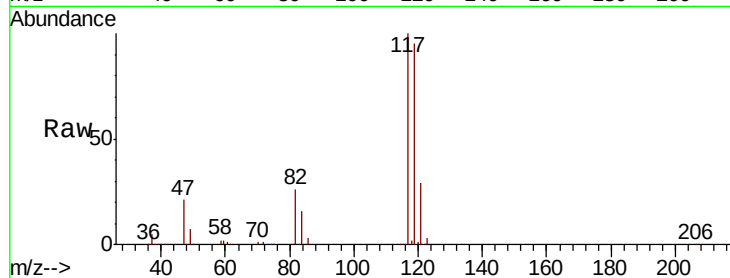
VSTD02596

Tot Ion:117 Resp: 171138

Ion Ratio Lower Upper

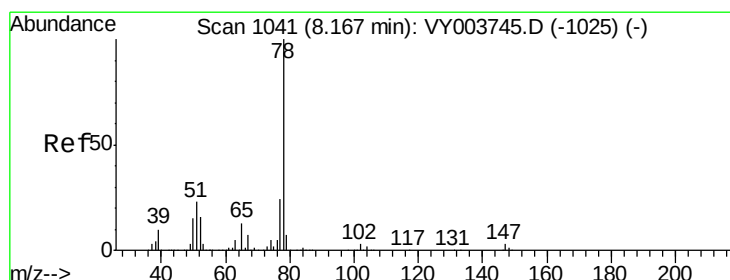
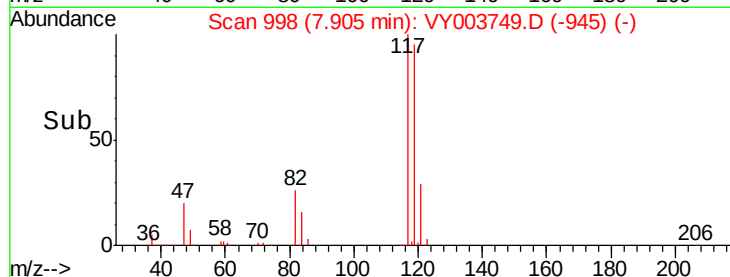
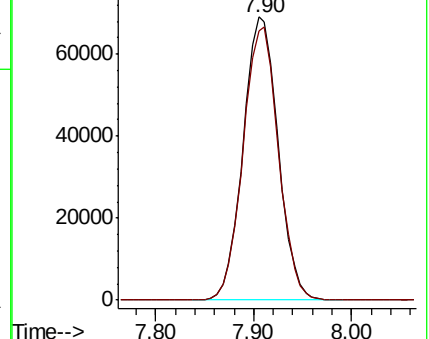
117 100

119 97.4 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.855 ug/L

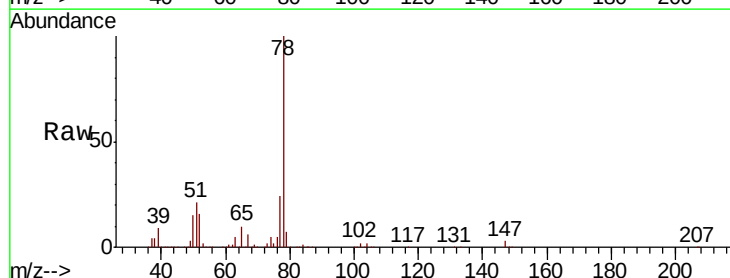
RT: 8.17 min Scan# 1041

Delta R.T. 0.00 min

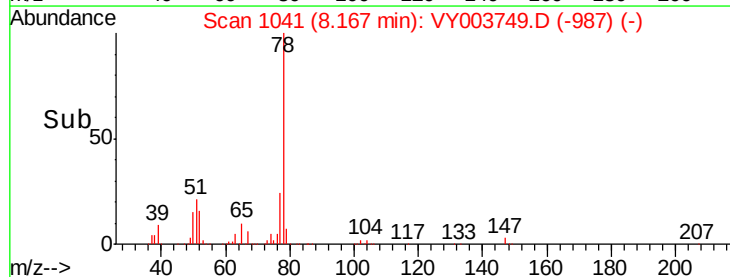
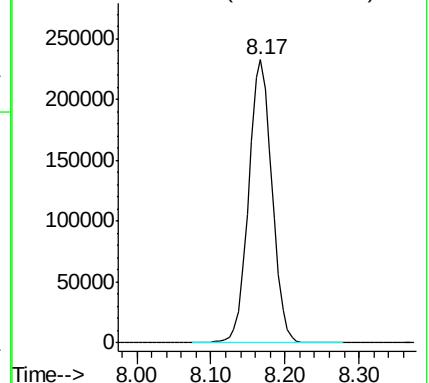
Lab File: VY003749.D

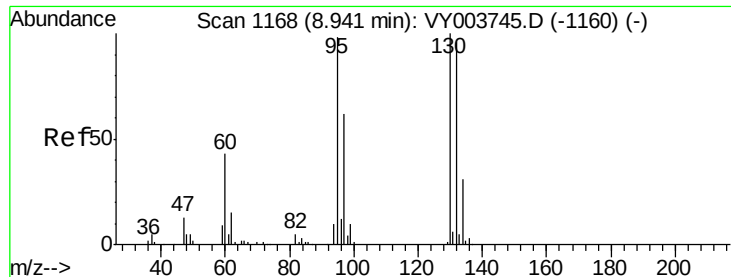
Acq: 14 Dec 2020 14:42

Tgt Ion: 78 Resp: 511747



Abundance Ion 78.00 (77.70 to 78.70): VY0





#35

Trichloroethene

Concen: 24.668 ug/L

RT: 8.94 min Scan# 1168

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02596

Tot Ion: 95 Resp: 136325

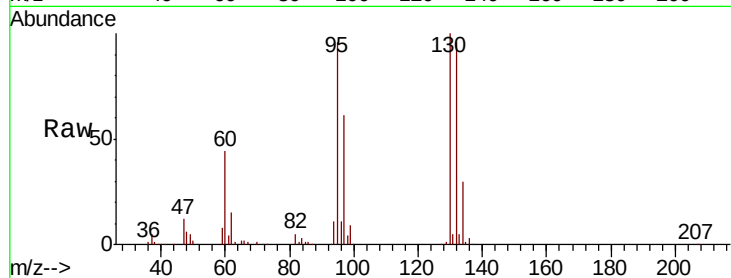
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.4

132 102.2 70.8 131.4

130 106.8 74.1 137.7

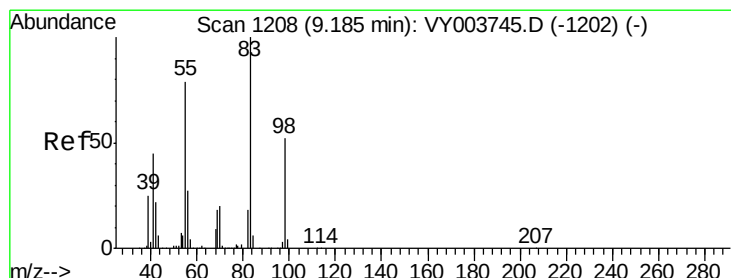
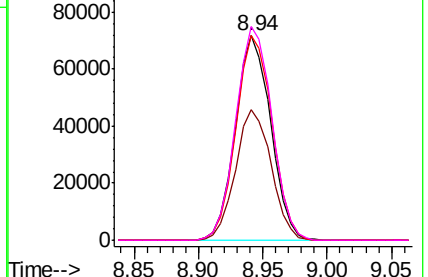
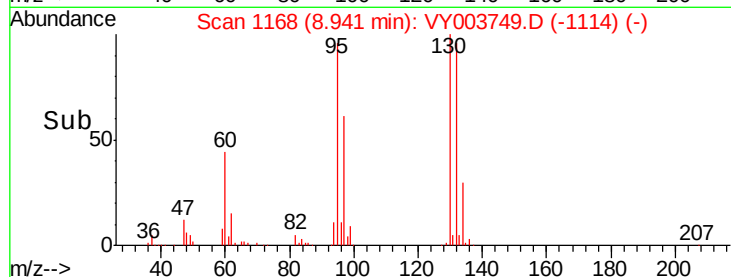


Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): VY0

Ion 130.00 (129.70 to 130.70): VY0



#36

Methylcyclohexane

Concen: 24.712 ug/L

RT: 9.19 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

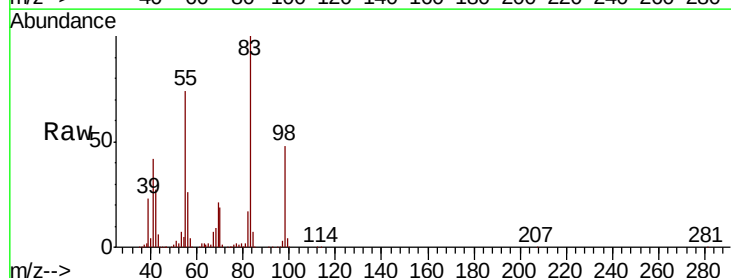
Tgt Ion: 83 Resp: 231341

Ion Ratio Lower Upper

83 100

55 75.5 60.3 90.5

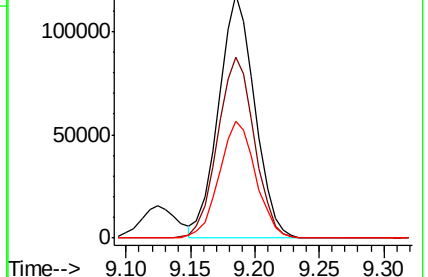
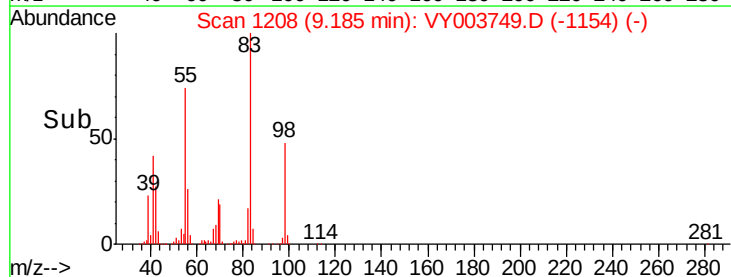
98 48.6 40.4 60.6



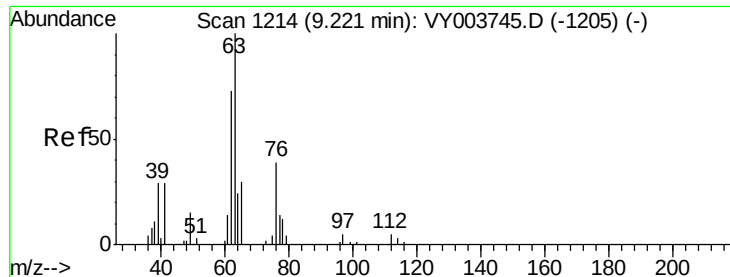
Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0







#40

1,2-Dichloropropane

Concen: 25.066 ug/L

RT: 9.22 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

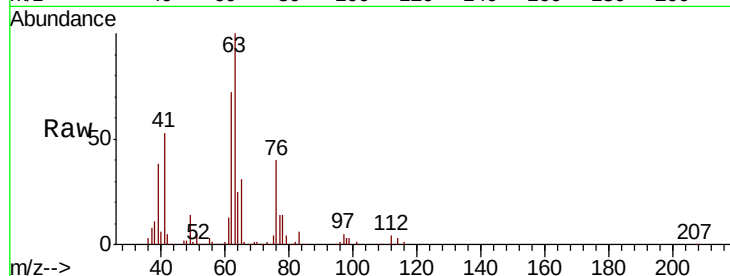
VSTD02596

Tot Ion: 63 Resp: 133762

Ion Ratio Lower Upper

63 100

112 4.5 3.4 5.2



Abundance Ion 63.00 (62.70 to 63.70): VY0

Ion 112.00 (111.70 to 112.70): V

80000

60000

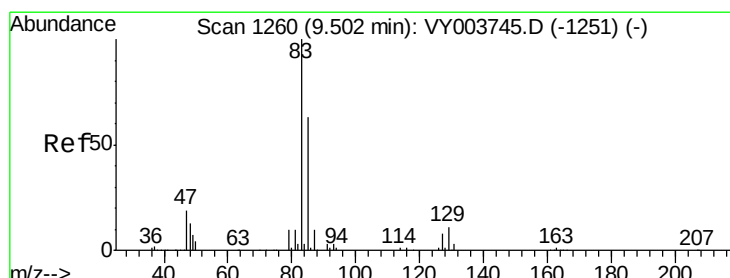
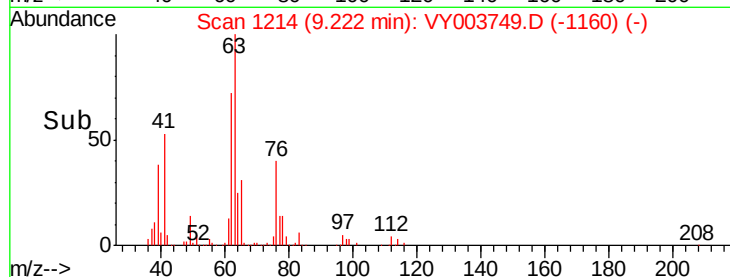
40000

20000

0

9.15 9.20 9.25 9.30

Time-->



#41

Bromodichloromethane

Concen: 25.143 ug/L

RT: 9.50 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

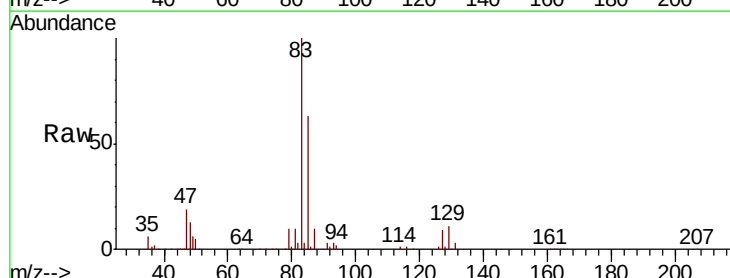
Tgt Ion: 83 Resp: 167986

Ion Ratio Lower Upper

83 100

85 63.3 44.2 82.2

127 8.9 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

Ion 127.00 (126.70 to 127.70): V

120000

100000

80000

60000

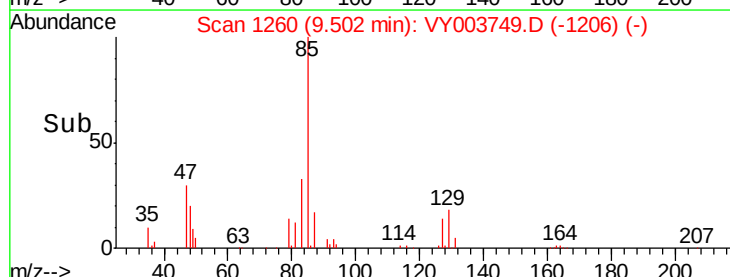
40000

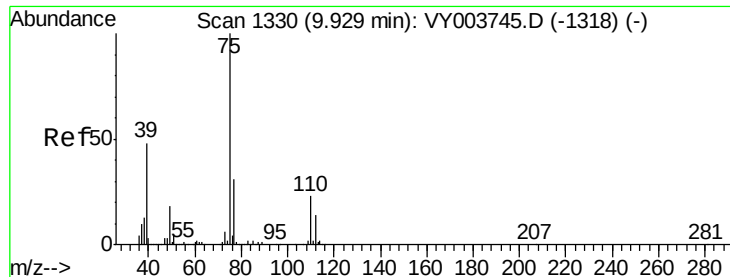
20000

0

9.40 9.45 9.50 9.55

Time-->



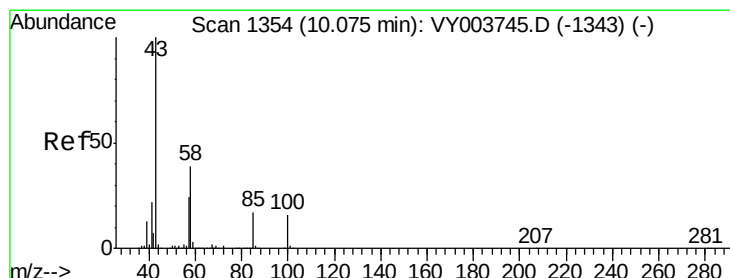
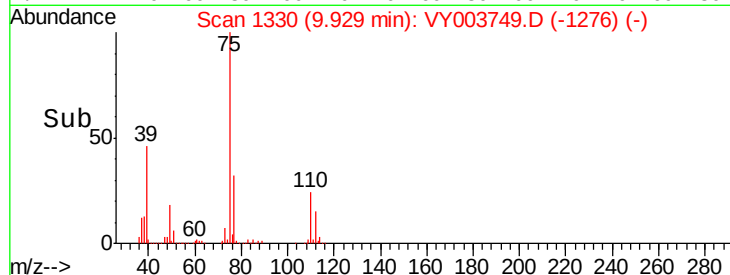
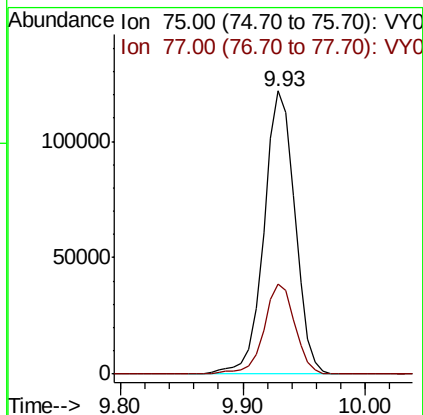
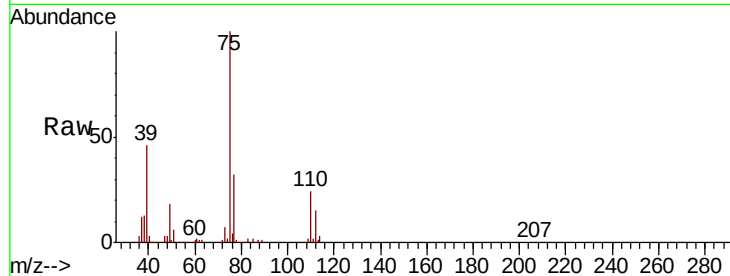


#42

cis-1,3-Dichloropropene  
 Concen: 25.274 ug/L  
 RT: 9.93 min Scan# 1330  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 VSTD02596

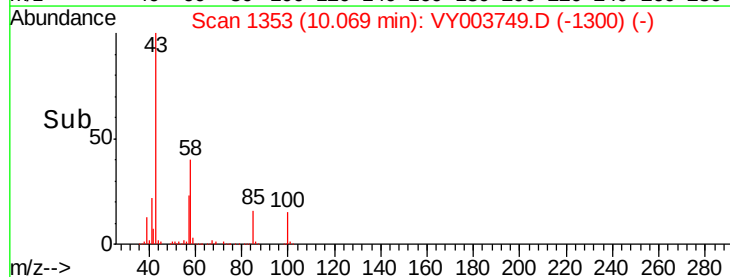
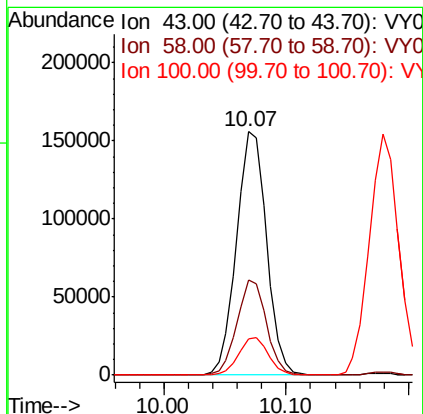
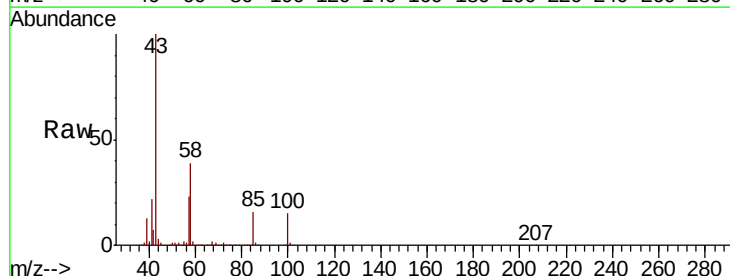
Tot Ion: 75 Resp: 214308  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 21.3 39.6

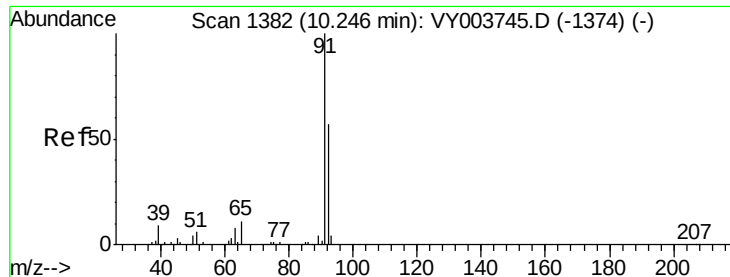


#43

4-Methyl-2-pentanone  
 Concen: 51.366 ug/L  
 RT: 10.07 min Scan# 1353  
 Delta R.T. -0.01 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

Tgt Ion: 43 Resp: 265795  
 Ion Ratio Lower Upper  
 43 100  
 58 38.3 30.8 46.2  
 100 15.2 11.8 17.8





#44

Toluene

Concen: 25.172 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

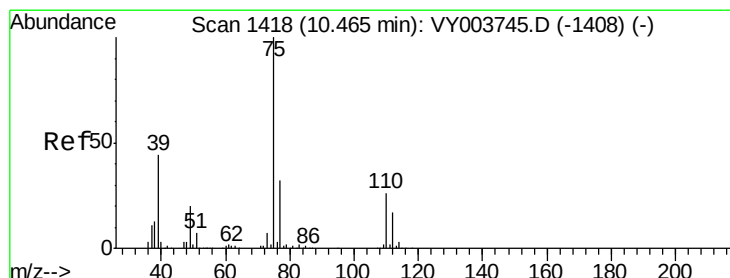
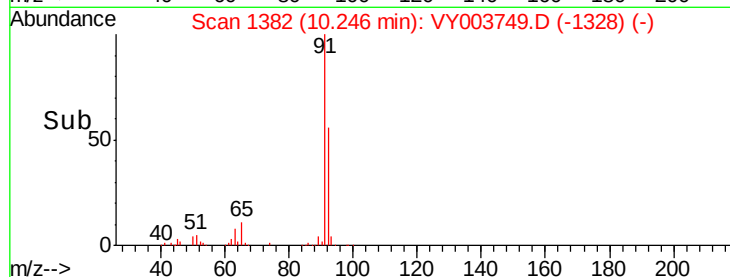
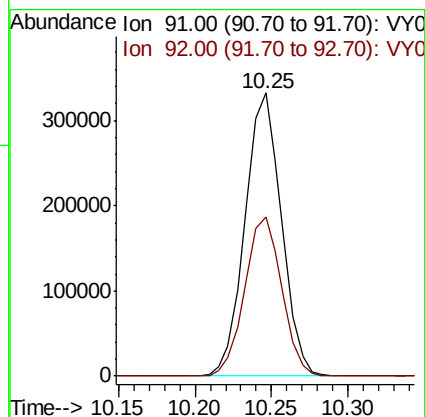
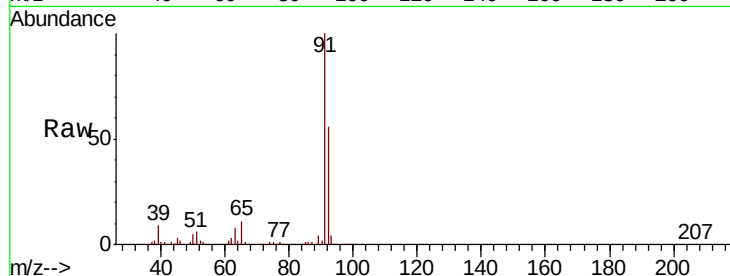
VSTD02596

Tot Ion: 91 Resp: 550506

Ion Ratio Lower Upper

91 100

92 56.2 39.9 74.1



#45

trans-1,3-Dichloropropene

Concen: 25.741 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VY003749.D

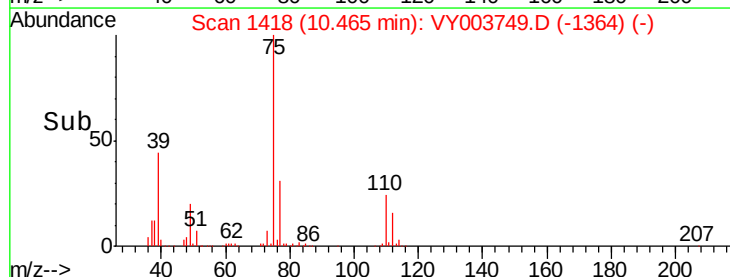
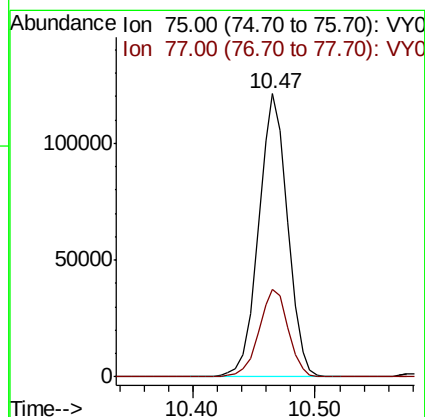
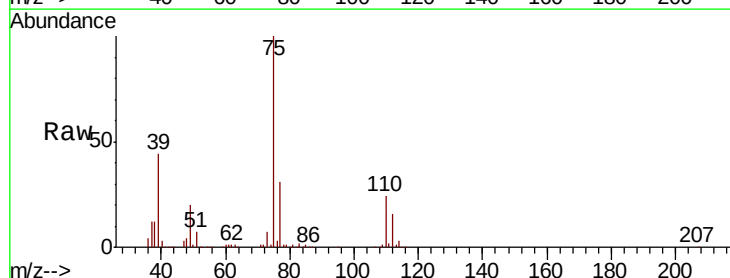
Acq: 14 Dec 2020 14:42

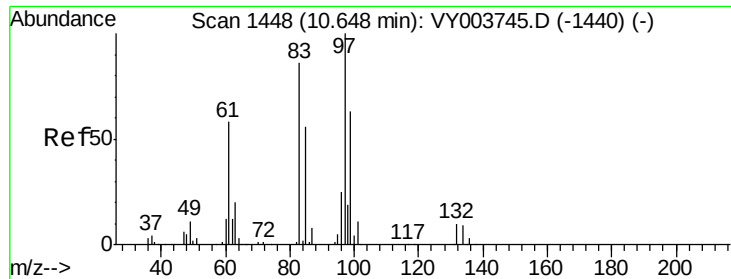
Tgt Ion: 75 Resp: 199731

Ion Ratio Lower Upper

75 100

77 31.0 22.1 41.1

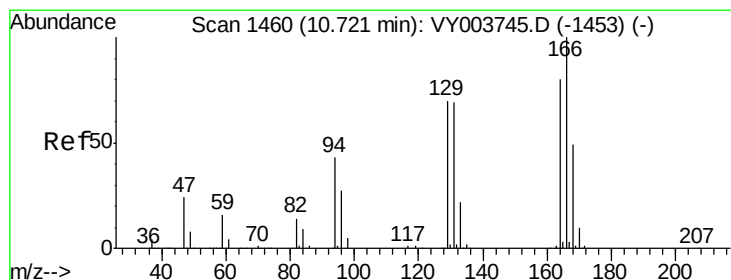
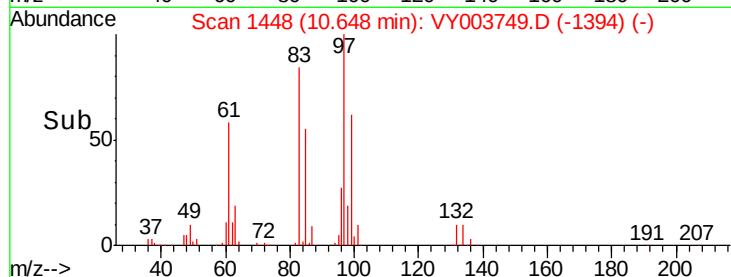
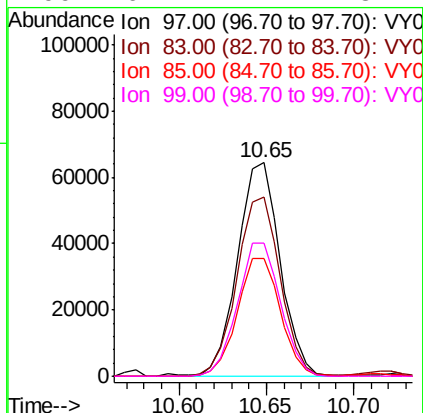
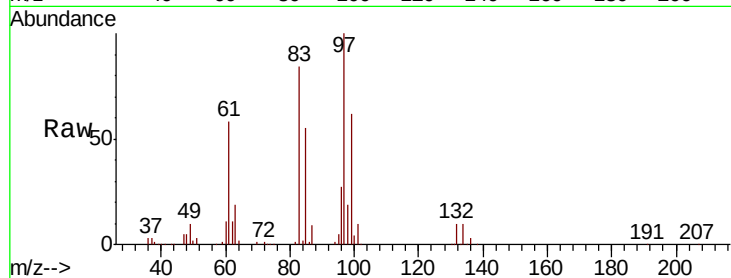




#46  
 1,1,2-Trichloroethane  
 Concen: 25.253 ug/L  
 RT: 10.65 min Scan# 1448  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

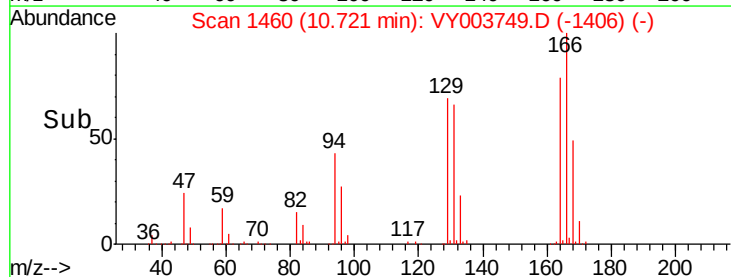
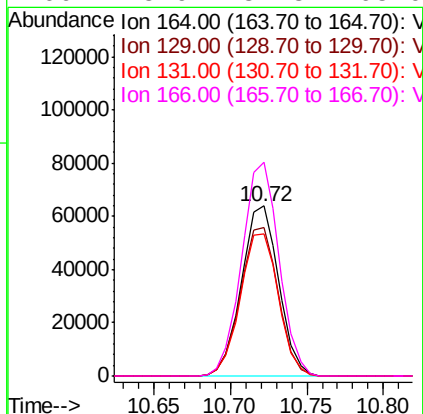
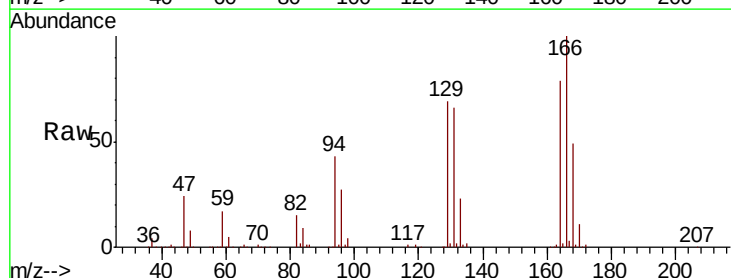
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02596

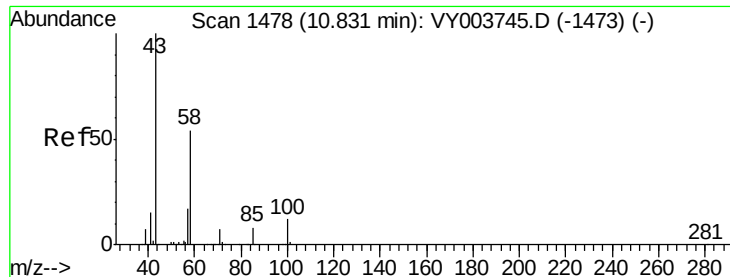
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 109137 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 84.0  | 60.0  | 111.4  |
| 85       | 55.1  | 38.9  | 72.2   |
| 99       | 62.4  | 44.4  | 82.4   |



#47  
 Tetrachloroethene  
 Concen: 24.620 ug/L  
 RT: 10.72 min Scan# 1460  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 108186 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 87.4  | 61.3  | 113.9  |
| 131      | 83.7  | 60.4  | 112.2  |
| 166      | 125.9 | 87.8  | 163.0  |

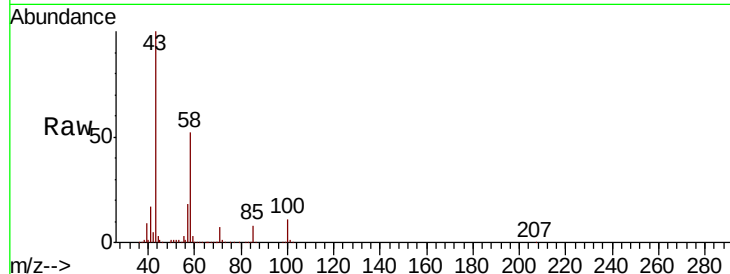




#49  
2-Hexanone  
Concen: 53.444 ug/L  
RT: 10.83 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02596

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 54.0  | 43.0  | 64.4  |
| 57      | 18.1  | 14.1  | 21.1  |
| 100     | 11.6  | 9.2   | 13.8  |



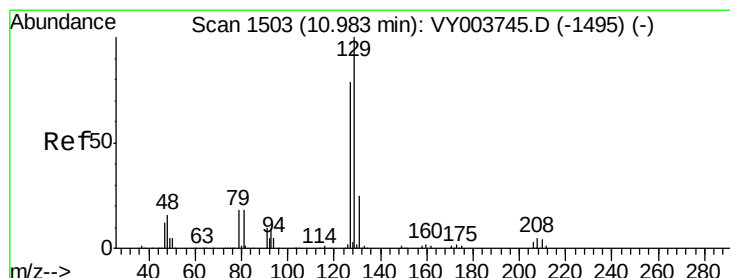
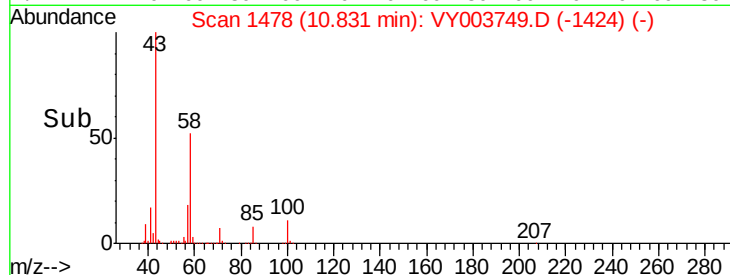
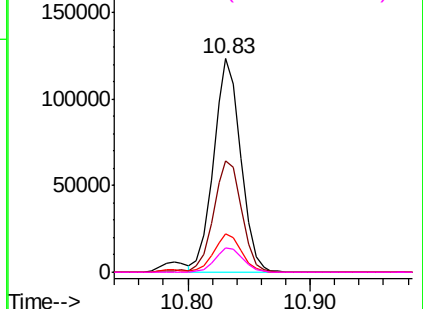
Abundance

Ion 43.00 (42.70 to 43.70): VY003749.D (-1473) (-)

Ion 58.00 (57.70 to 58.70): VY003749.D (-1473) (-)

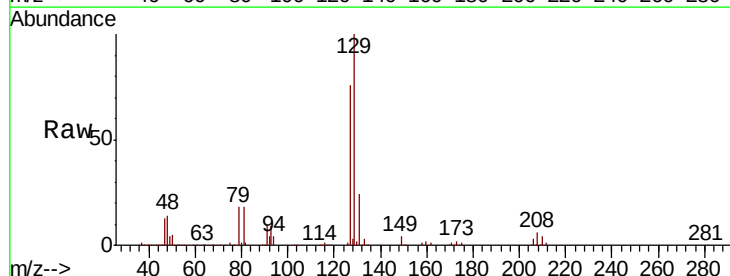
Ion 57.00 (56.70 to 57.70): VY003749.D (-1473) (-)

Ion 100.00 (99.70 to 100.70): VY003749.D (-1473) (-)



#50  
Dibromochloromethane  
Concen: 25.614 ug/L  
RT: 10.98 min Scan# 1503  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

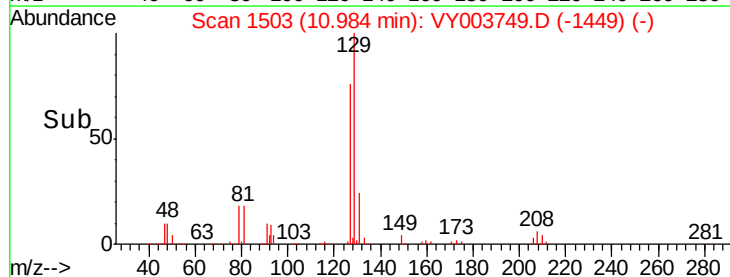
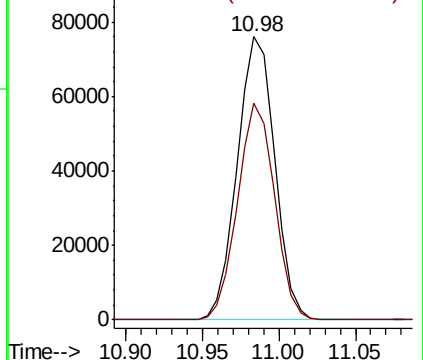
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 76.4  | 55.2  | 102.4 |

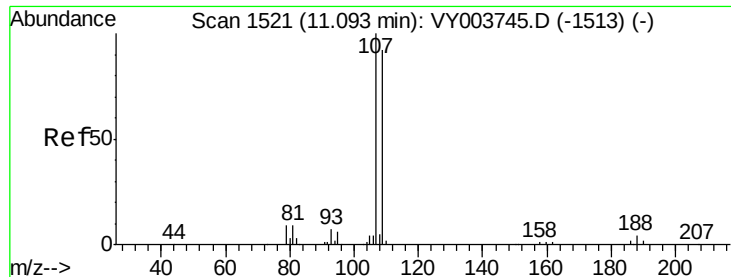


Abundance

Ion 129.00 (128.70 to 129.70): VY003749.D (-1495) (-)

Ion 127.00 (126.70 to 127.70): VY003749.D (-1495) (-)

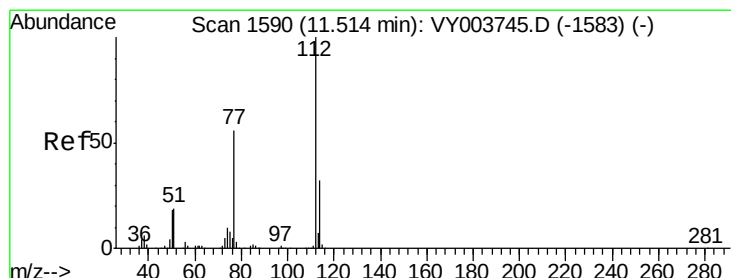
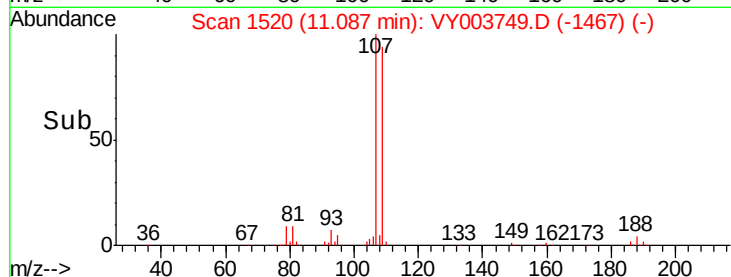
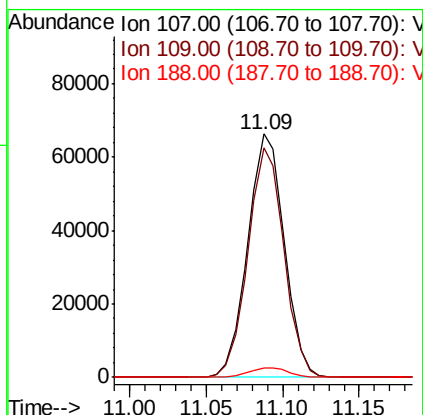
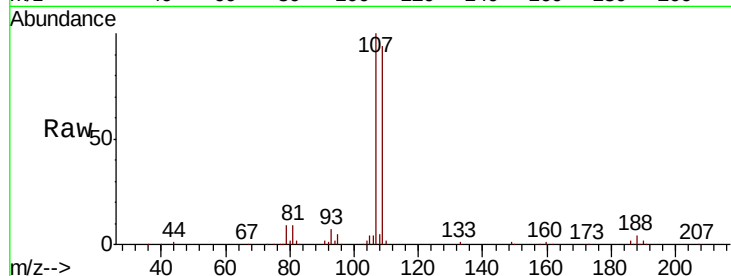




#51  
1,2-Dibromoethane  
Concen: 25.760 ug/L  
RT: 11.09 min Scan# 1520  
Delta R.T. -0.01 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

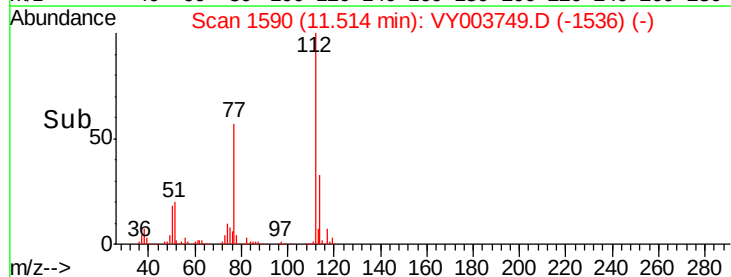
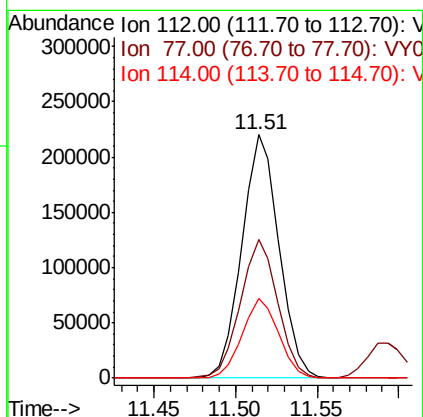
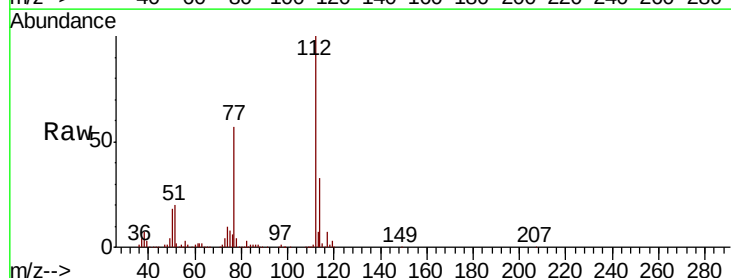
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02596

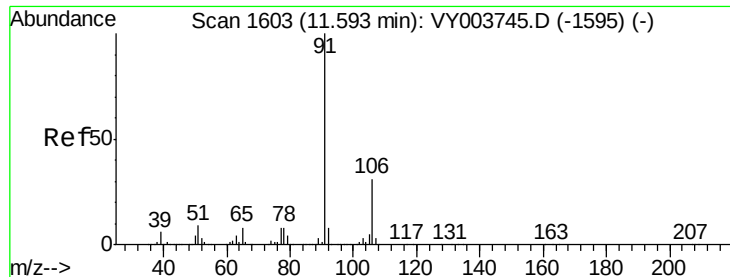
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.3  | 64.6  | 120.0 |
| 188     | 3.8   | 2.9   | 4.3   |



#52  
Chlorobenzene  
Concen: 24.862 ug/L  
RT: 11.51 min Scan# 1590  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 57.0  | 45.1  | 67.7  |
| 114     | 32.6  | 22.6  | 42.0  |





#53

Ethylbenzene

Concen: 25.243 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

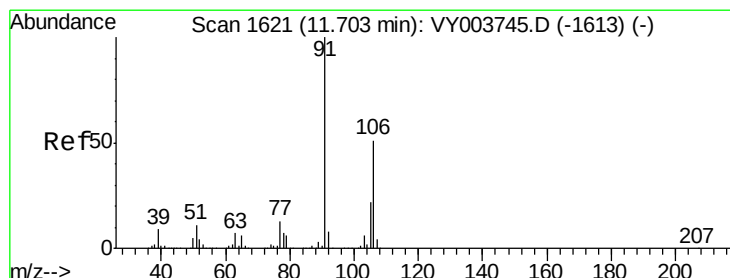
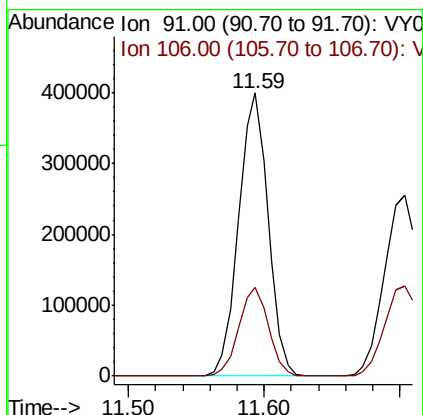
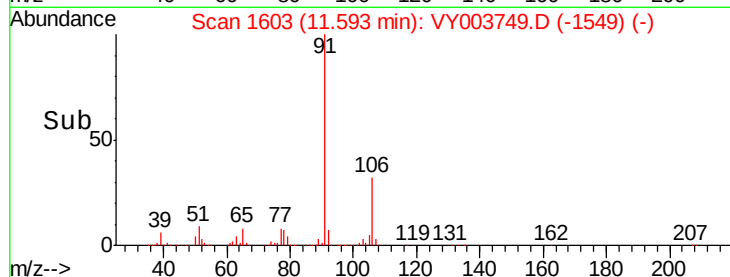
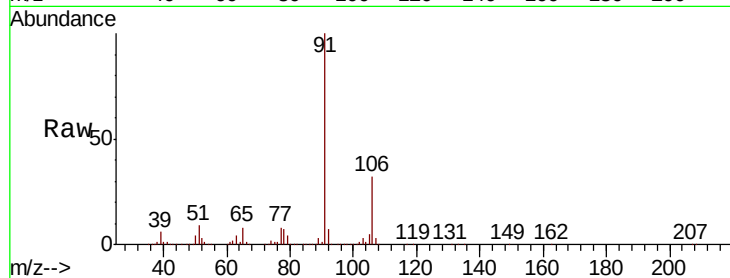
VSTD02596

Tot Ion: 91 Resp: 603185

Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



#54

m,p-Xylene

Concen: 25.075 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003749.D

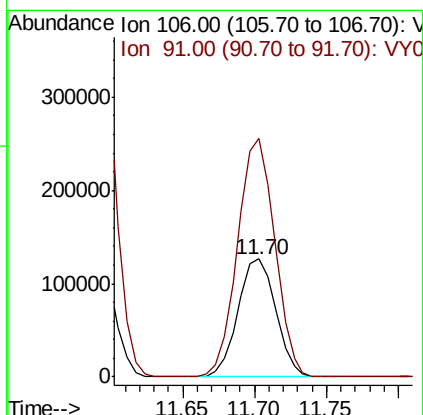
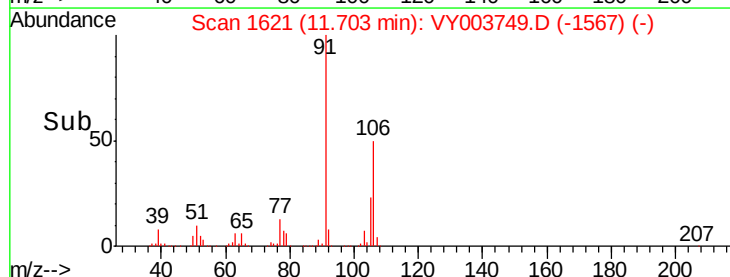
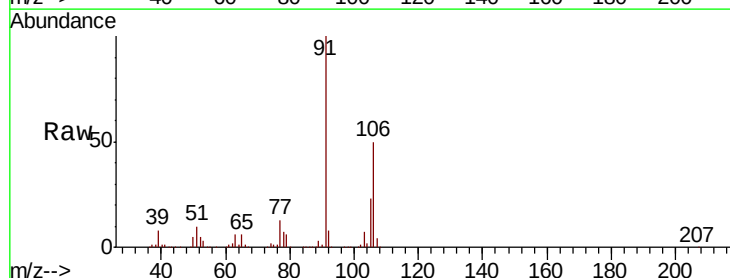
Acq: 14 Dec 2020 14:42

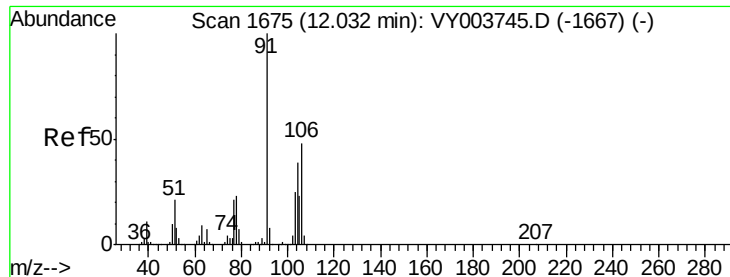
Tgt Ion: 106 Resp: 231113

Ion Ratio Lower Upper

106 100

91 201.9 136.4 253.4

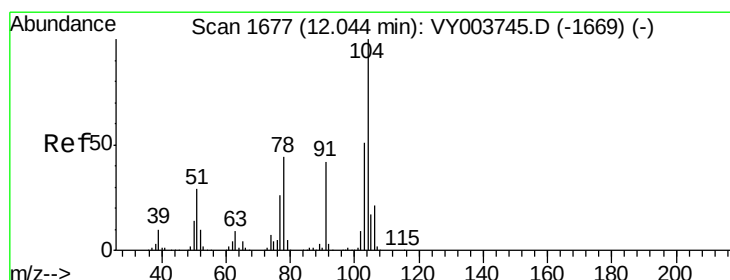
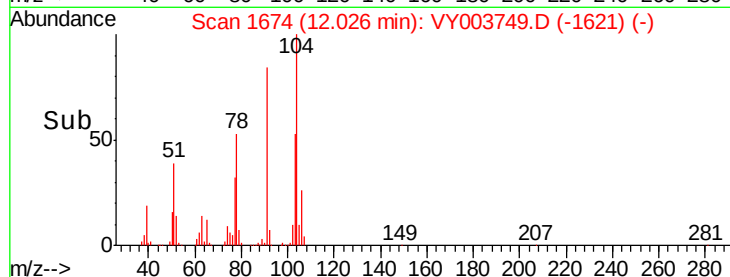
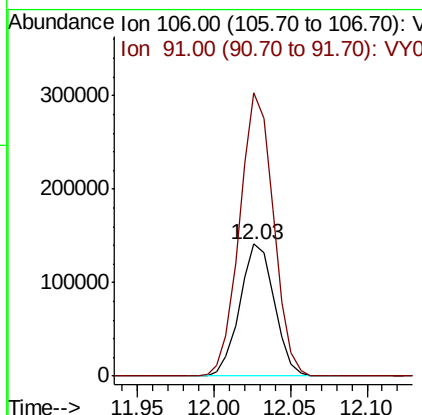
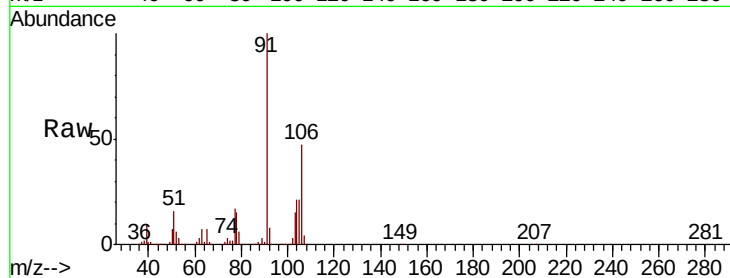




#55  
o-xylene  
Concen: 25.696 ug/L  
RT: 12.03 min Scan# 1674  
Delta R.T. -0.01 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

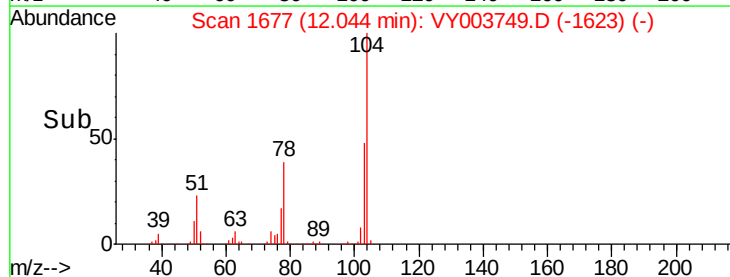
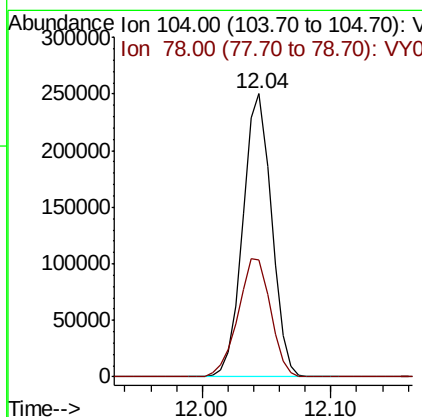
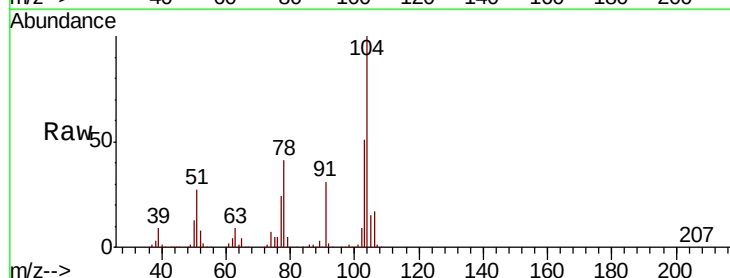
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02596

Tot Ion:106 Resp: 222255  
Ion Ratio Lower Upper  
106 100  
91 214.2 145.5 270.1

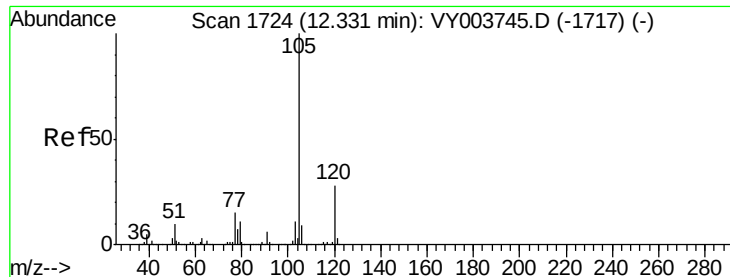


#56  
Styrene  
Concen: 26.043 ug/L  
RT: 12.04 min Scan# 1677  
Delta R.T. 0.00 min  
Lab File: VY003749.D  
Acq: 14 Dec 2020 14:42

Tgt Ion:104 Resp: 384550  
Ion Ratio Lower Upper  
104 100  
78 41.4 30.6 56.8







#57

Isopropylbenzene

Concen: 25.532 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02596

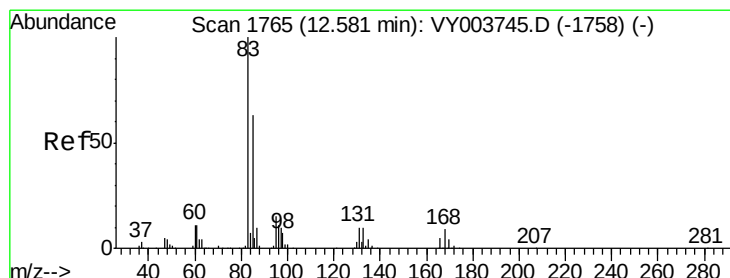
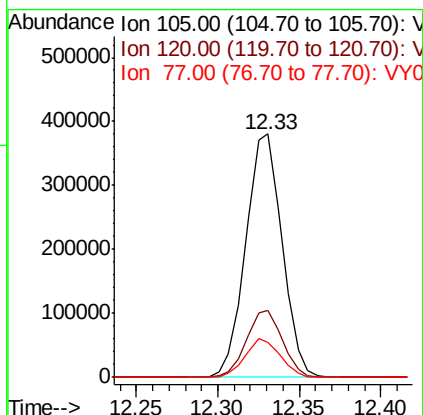
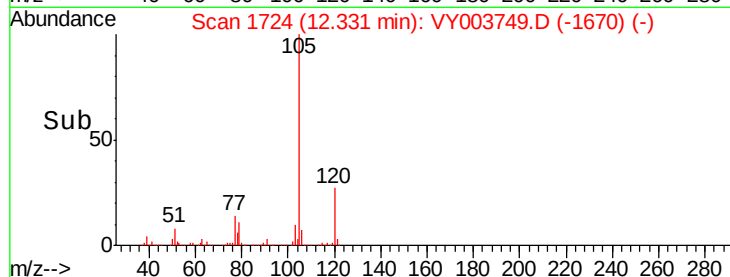
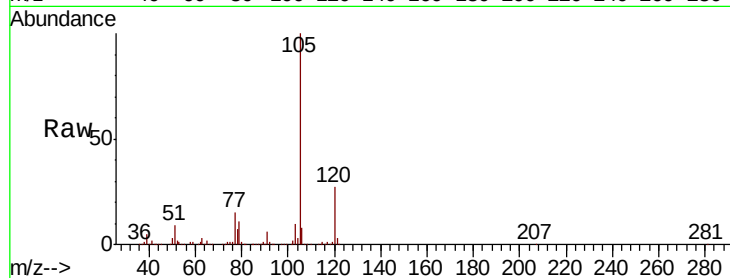
Tot Ion:105 Resp: 589673

Ion Ratio Lower Upper

105 100

120 27.3 22.1 33.1

77 15.4 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 25.646 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

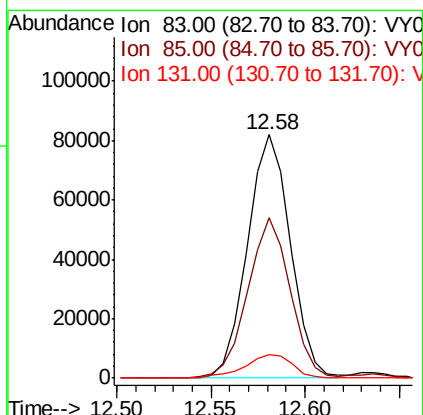
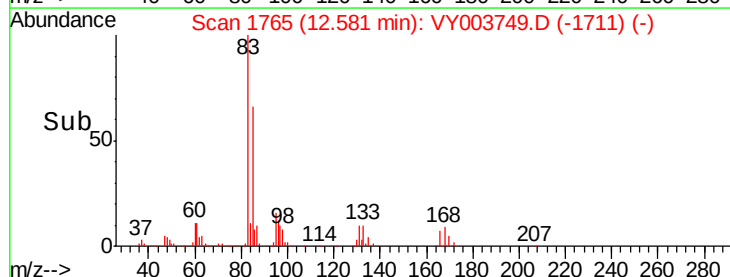
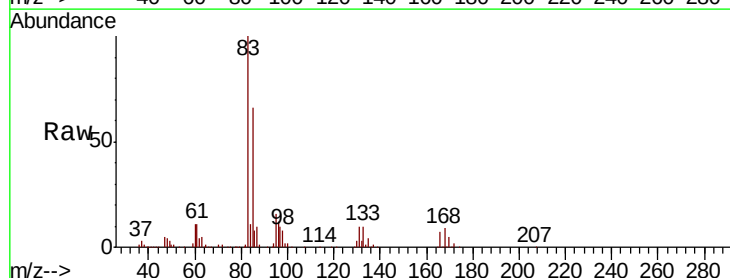
Tgt Ion: 83 Resp: 129490

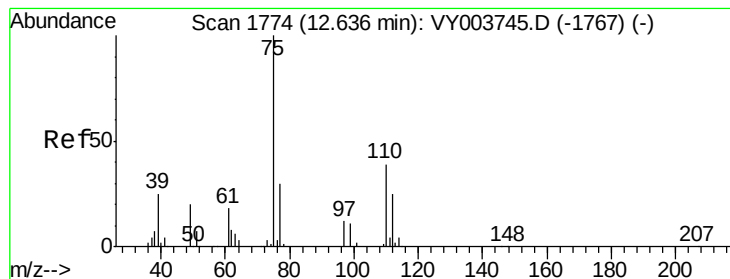
Ion Ratio Lower Upper

83 100

85 65.7 43.9 81.5

131 9.9 7.8 11.8





#59

1,2,3-Trichloropropane

Concen: 25.611 ug/L

RT: 12.64 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

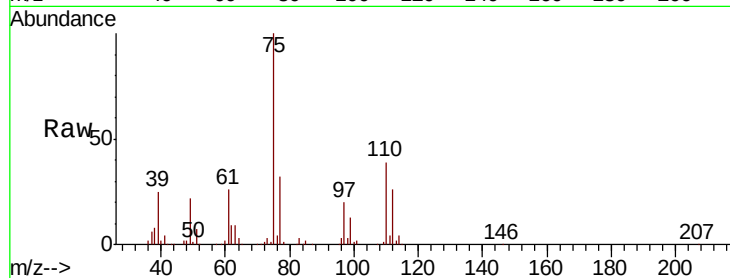
VSTD02596

Tot Ion: 75 Resp: 109091

Ion Ratio Lower Upper

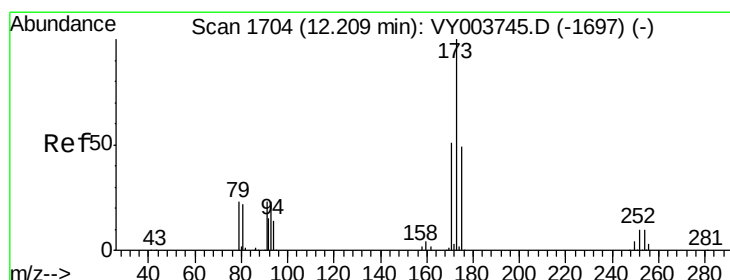
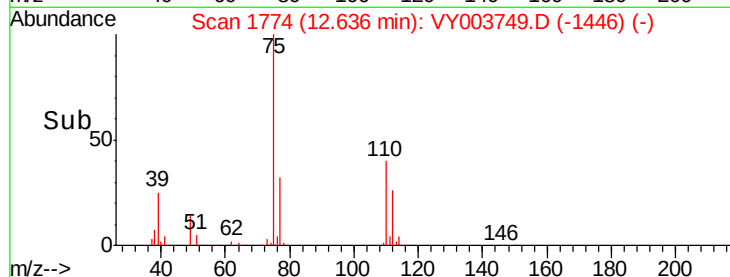
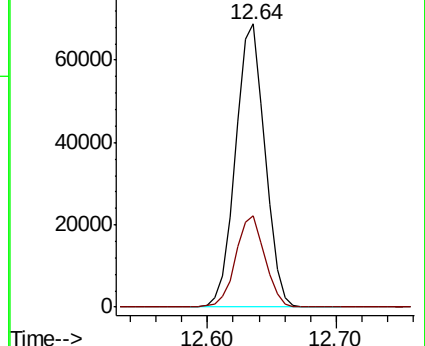
75 100

77 32.2 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0



#62

Bromoform

Concen: 25.291 ug/L

RT: 12.21 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

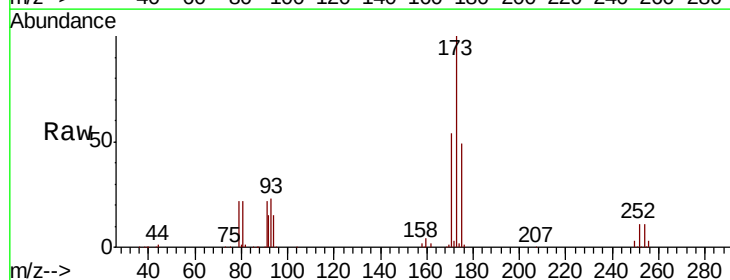
Tgt Ion: 173 Resp: 85873

Ion Ratio Lower Upper

173 100

175 49.4 38.8 58.2

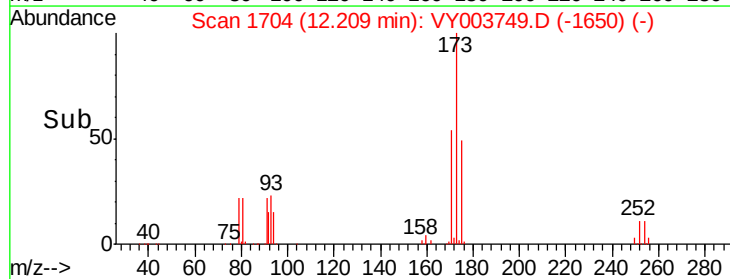
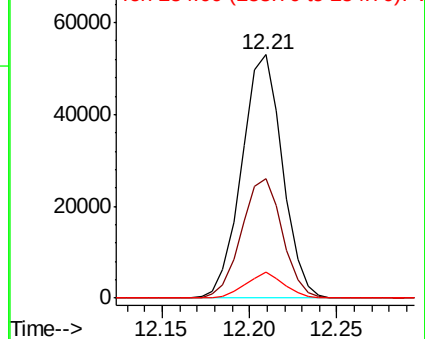
254 10.0 7.8 11.6

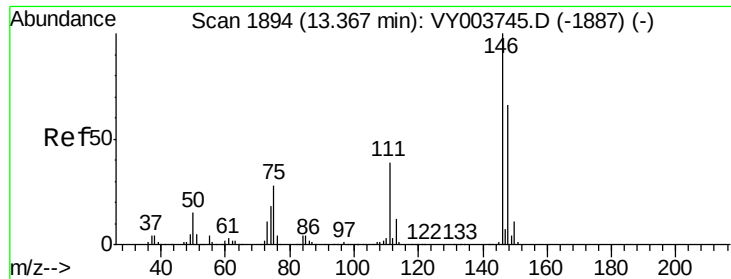


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

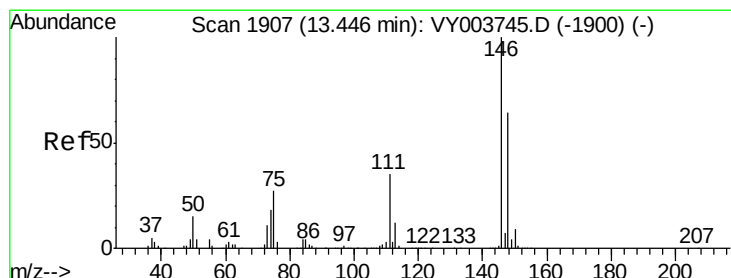
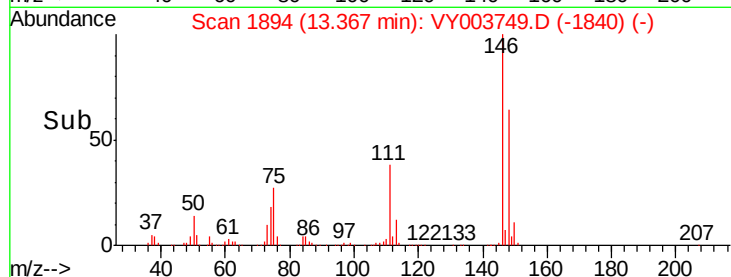
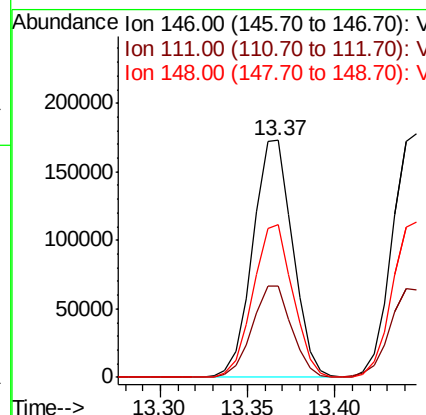
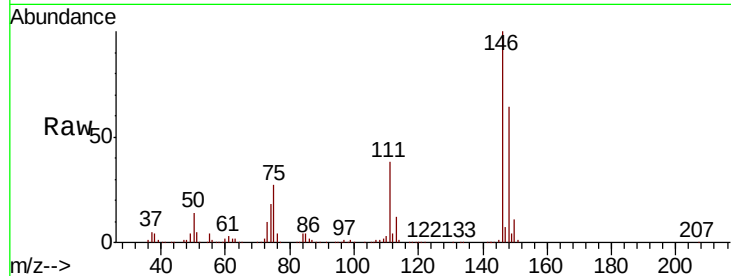




#63  
 1,3-Dichlorobenzene  
 Concen: 25.779 ug/L  
 RT: 13.37 min Scan# 1894  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

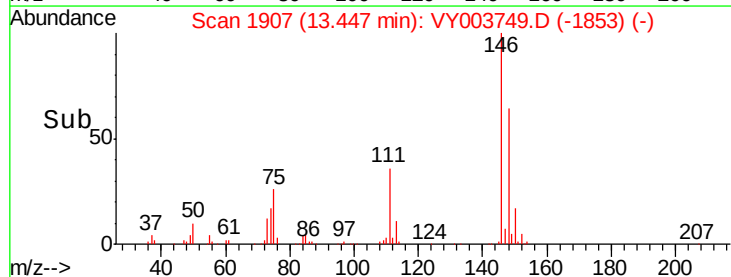
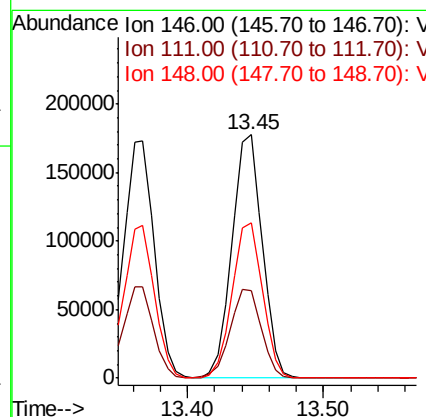
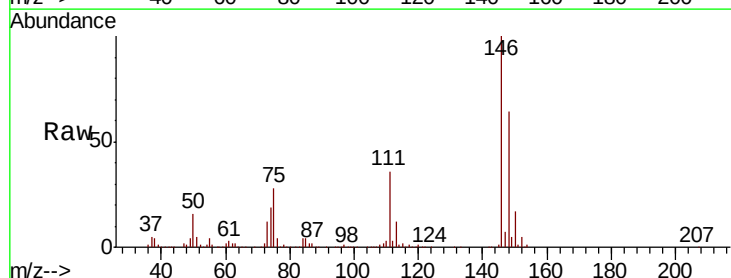
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02596

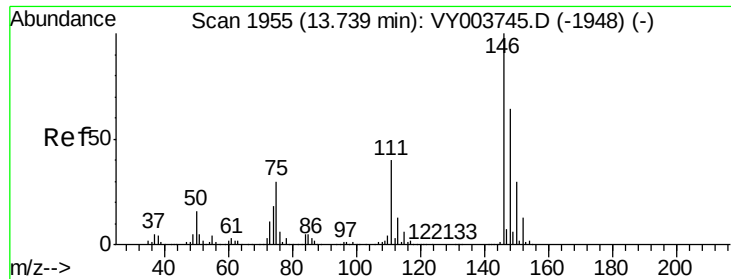
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.3  | 26.9  | 50.1  |
| 148     | 64.4  | 46.0  | 85.4  |



#64  
 1,4-Dichlorobenzene  
 Concen: 25.367 ug/L  
 RT: 13.45 min Scan# 1907  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 35.8  | 24.8  | 46.0  |
| 148     | 63.7  | 44.4  | 82.5  |

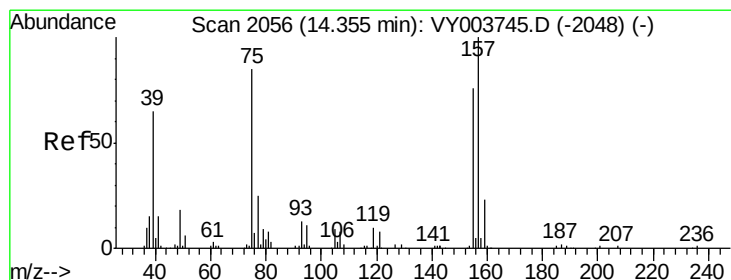
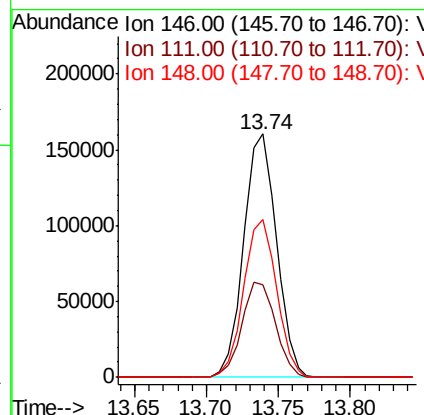
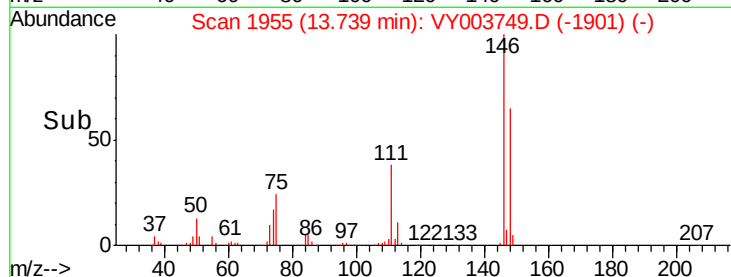
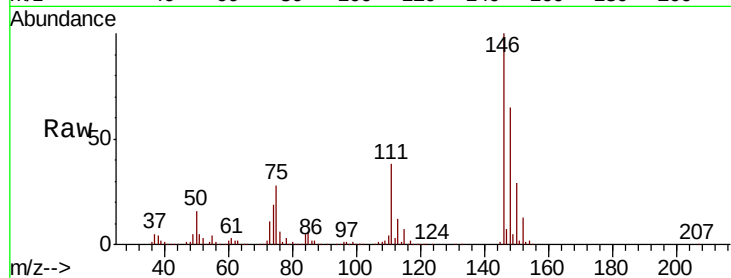




#65  
 1,2-Dichlorobenzene  
 Concen: 25.804 ug/L  
 RT: 13.74 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

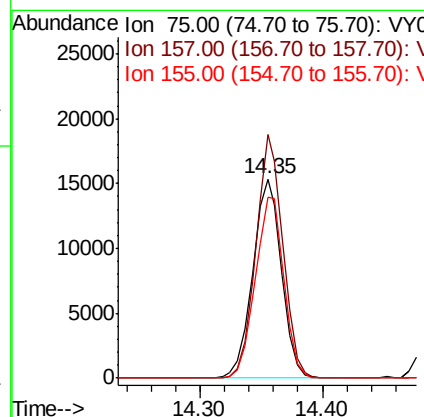
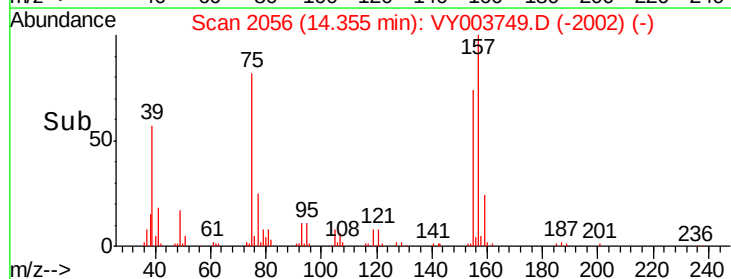
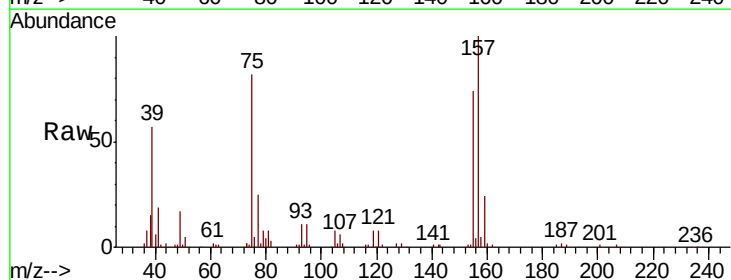
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02596

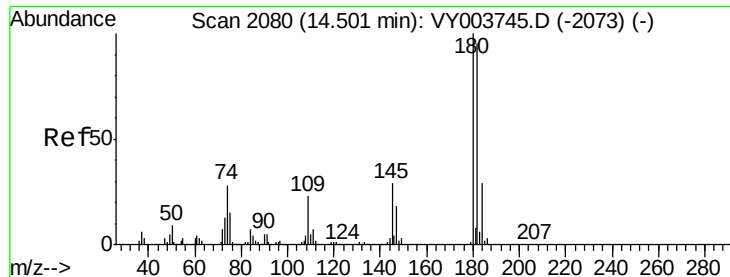
Tot Ion:146 Resp: 253893  
 Ion Ratio Lower Upper  
 146 100  
 111 38.2 31.8 47.8  
 148 64.7 51.3 76.9



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 25.805 ug/L  
 RT: 14.35 min Scan# 2056  
 Delta R.T. 0.00 min  
 Lab File: VY003749.D  
 Acq: 14 Dec 2020 14:42

Tgt Ion: 75 Resp: 24963  
 Ion Ratio Lower Upper  
 75 100  
 157 122.3 93.8 140.8  
 155 91.1 70.9 106.3





#67

1,3,5-Trichlorobenzene

Concen: 26.027 ug/L

RT: 14.50 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02596

Tot Ion:180 Resp: 193205

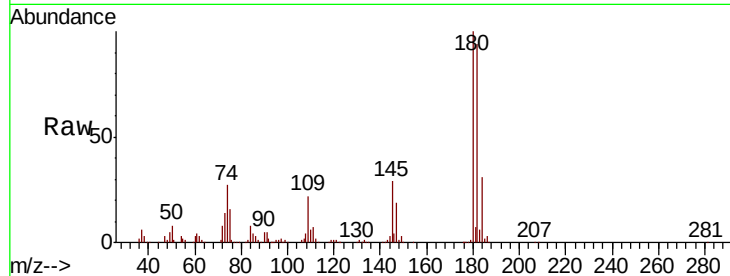
Ion Ratio Lower Upper

180 100

182 95.9 75.7 113.5

184 30.7 24.2 36.4

145 28.7 22.9 34.3

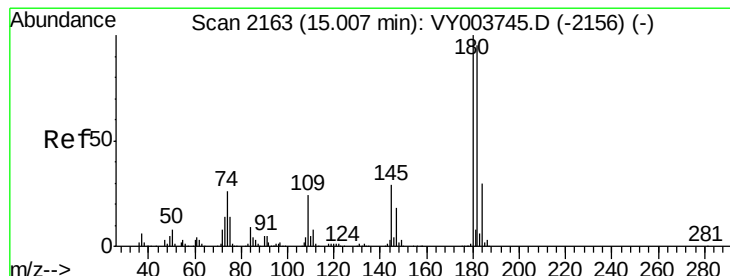
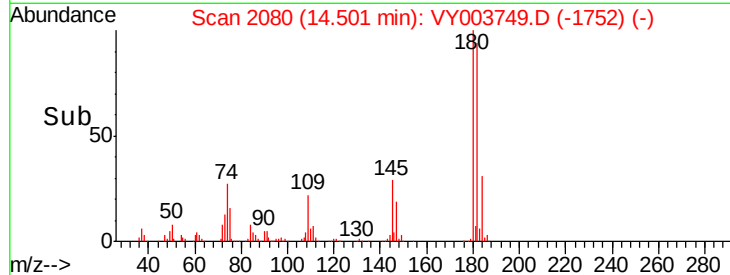
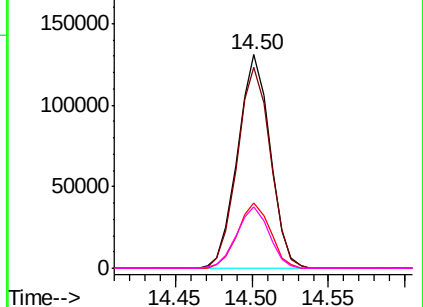


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 26.271 ug/L

RT: 15.01 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

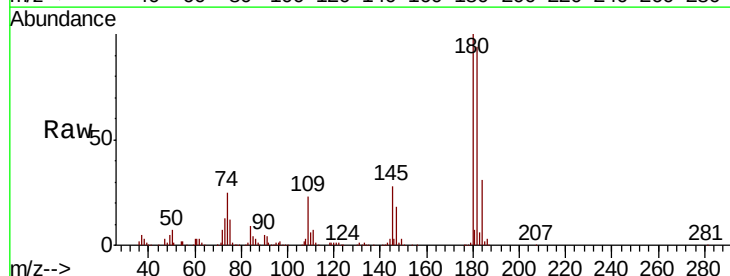
Tgt Ion:180 Resp: 166340

Ion Ratio Lower Upper

180 100

182 94.2 76.8 115.2

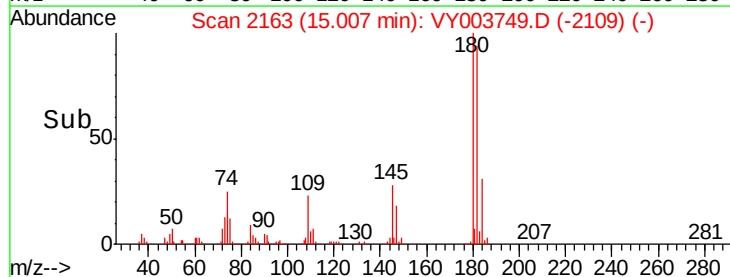
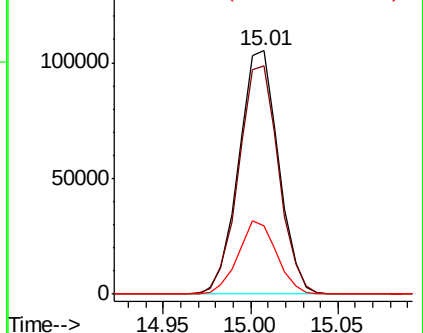
145 29.2 23.7 35.5

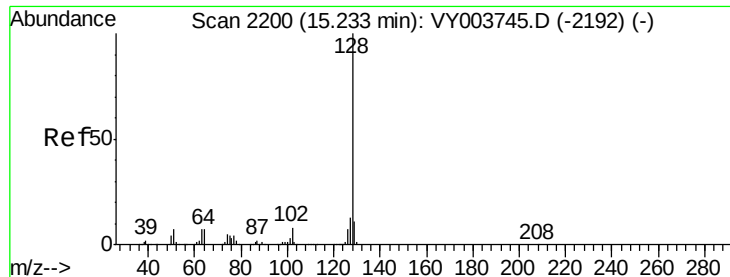


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 27.221 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02596

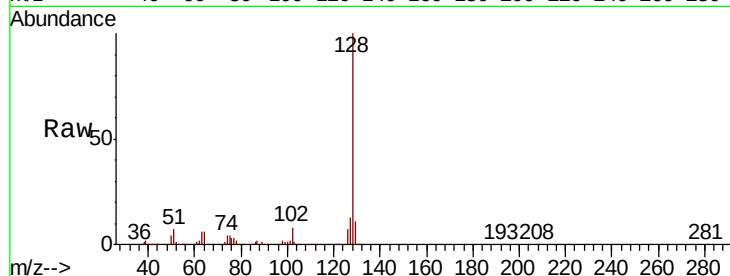
Tot Ion:128 Resp: 393259

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

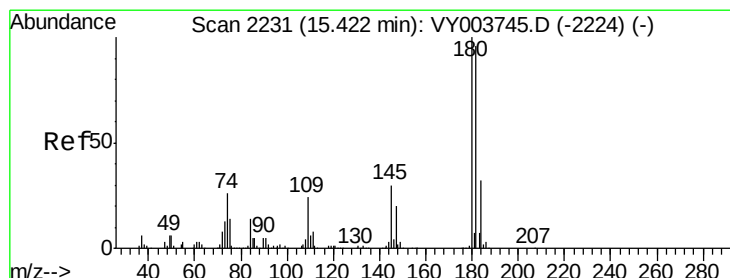
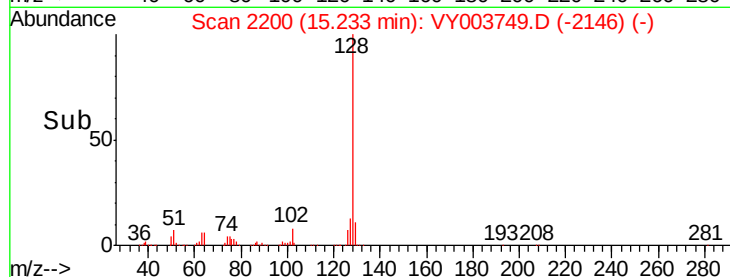
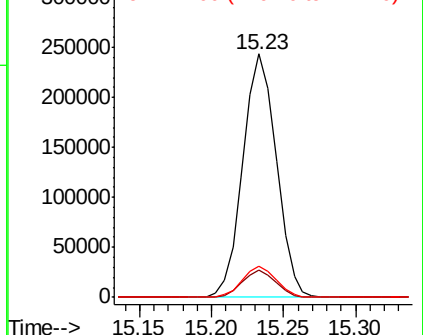
127 12.7 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.331 ug/L

RT: 15.42 min Scan# 2231

Delta R.T. 0.00 min

Lab File: VY003749.D

Acq: 14 Dec 2020 14:42

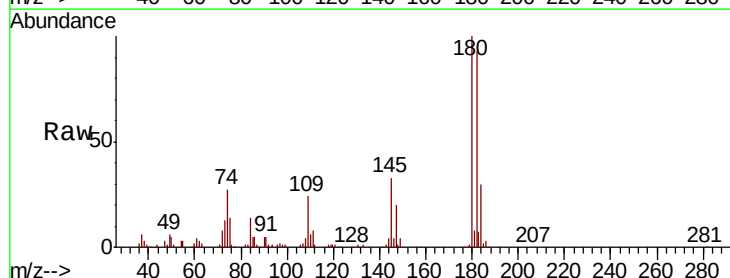
Tgt Ion:180 Resp: 151629

Ion Ratio Lower Upper

180 100

182 93.2 77.0 115.6

145 30.9 25.0 37.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

