

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY122920\  
 Data File : VY003847.D  
 Acq On : 29 Dec 2020 11:24  
 Operator : SY/MD  
 Sample : VSTD02533  
 Misc : 5.00G/10ML/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02533

Quant Time: Dec 29 12:48:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYLEM122920SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 29 12:43:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.69  | 114  | 341444   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 322332   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 184889   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.24  | 65  | 122906 | 30.74 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.76  | 69  | 101013 | 31.77 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 3.86  | 63  | 227131 | 28.48 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 6.90  | 46  | 100522 | 56.06 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.48  | 84  | 219905 | 27.69 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.14  | 65  | 139030 | 30.58 | ug/L | 0.00 |
| 32) Benzene-d6                 | 8.11  | 84  | 412693 | 25.10 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 9.12  | 67  | 120880 | 24.41 | ug/L | 0.00 |
| 41) Toluene-d8                 | 10.18 | 98  | 394915 | 26.40 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.43 | 79  | 69548  | 28.27 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 10.78 | 63  | 75038  | 53.73 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 12.56 | 84  | 121315 | 26.40 | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 13.72 | 152 | 157510 | 25.54 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |             | Qvalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.91  | 85  | 124679 | 32.355 ug/L | 100    |
| 3) Chloromethane               | 2.11  | 50  | 143266 | 32.155 ug/L | 100    |
| 5) Vinyl chloride              | 2.25  | 62  | 161625 | 35.140 ug/L | 100    |
| 6) Bromomethane                | 2.65  | 94  | 99821  | 34.156 ug/L | 100    |
| 8) Chloroethane                | 2.80  | 64  | 101883 | 35.519 ug/L | 100    |
| 9) Trichlorofluoromethane      | 3.13  | 101 | 222353 | 32.150 ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.90  | 101 | 116624 | 27.045 ug/L | 100    |
| 12) 1,1-Dichloroethene         | 3.88  | 96  | 110818 | 26.987 ug/L | 100    |
| 13) Acetone                    | 3.95  | 43  | 79106  | 63.070 ug/L | 100    |
| 14) Carbon disulfide           | 4.20  | 76  | 382882 | 28.464 ug/L | 100    |
| 15) Methyl Acetate             | 4.48  | 43  | 93191  | 29.929 ug/L | 100    |
| 16) Methylene chloride         | 4.72  | 84  | 126335 | 21.115 ug/L | 100    |
| 17) trans-1,2-Dichloroethene   | 5.23  | 96  | 121956 | 26.662 ug/L | 100    |
| 18) Methyl tert-butyl Ether    | 5.23  | 73  | 359242 | 30.162 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 6.02  | 63  | 221176 | 28.646 ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 6.99  | 96  | 132313 | 27.026 ug/L | 100    |
| 22) 2-Butanone                 | 6.98  | 43  | 120649 | 56.096 ug/L | 100    |
| 23) Bromochloromethane         | 7.34  | 128 | 65204  | 26.797 ug/L | 100    |
| 25) Chloroform                 | 7.51  | 83  | 229573 | 29.079 ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.24  | 62  | 180397 | 32.644 ug/L | 100    |
| 29) Cyclohexane                | 7.78  | 56  | 215147 | 30.175 ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 7.70  | 97  | 220936 | 31.119 ug/L | 100    |
| 31) Carbon tetrachloride       | 7.90  | 117 | 201996 | 31.393 ug/L | 100    |
| 33) Benzene                    | 8.16  | 78  | 498891 | 27.050 ug/L | 100    |
| 34) Trichloroethene            | 8.94  | 95  | 136676 | 27.461 ug/L | 100    |
| 35) Methylcyclohexane          | 9.18  | 83  | 228837 | 28.861 ug/L | 100    |
| 37) 1,2-Dichloropropane        | 9.22  | 63  | 125450 | 27.233 ug/L | 100    |
| 38) Bromodichloromethane       | 9.50  | 83  | 177416 | 29.363 ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 9.93  | 75  | 216711 | 29.255 ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 10.07 | 43  | 272011 | 62.723 ug/L | 100    |

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 ClientSampleId :  
 VSTD02533

Quant Time: Dec 29 12:48:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL122920SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 29 12:43:03 2020  
 Response via : Initial Calibration

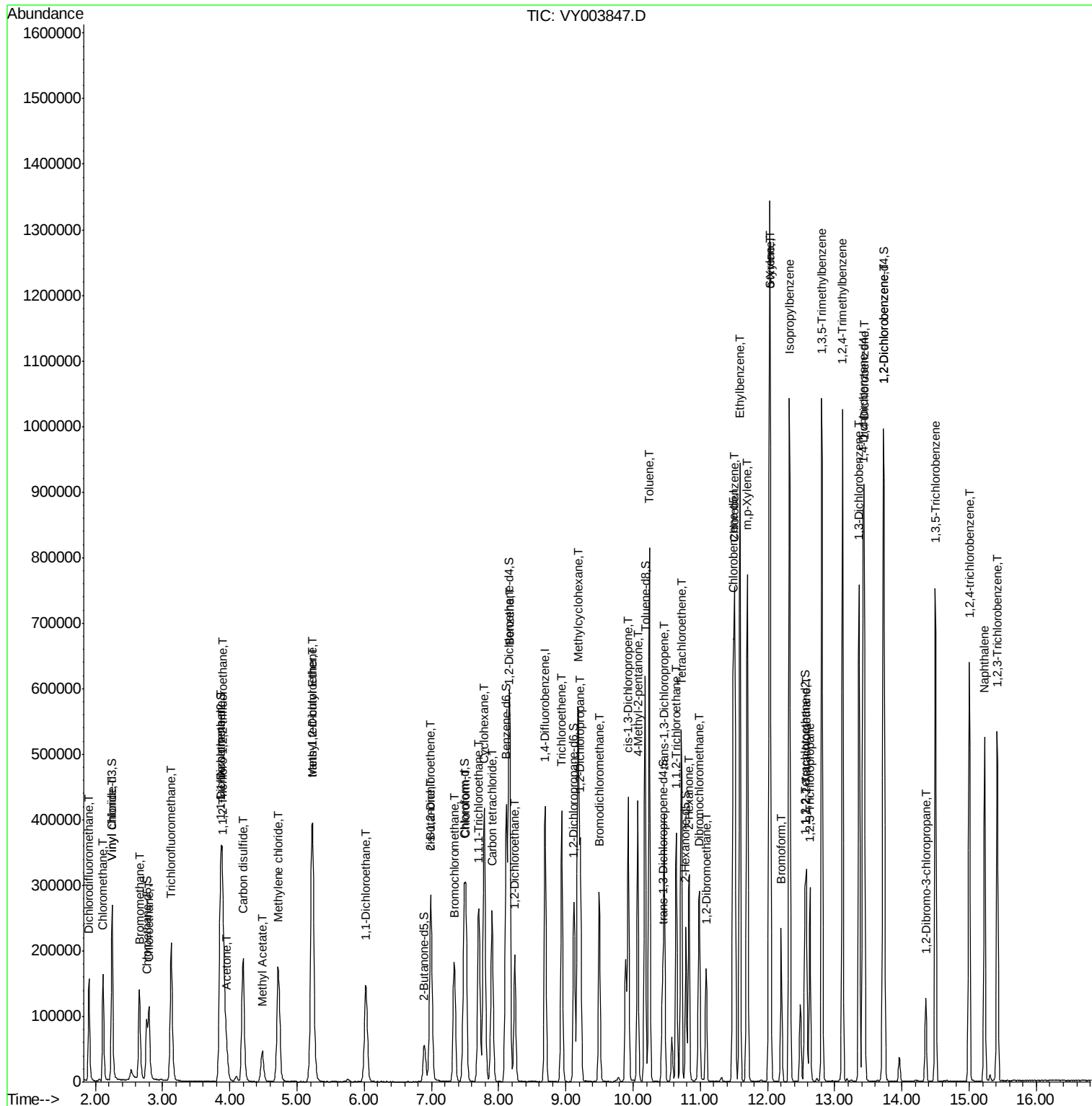
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 10.24 | 91   | 553642   | 27.996 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 10.47 | 75   | 206933   | 29.779 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 10.64 | 97   | 107736   | 26.832 | ug/L  | 100      |
| 46) Tetrachloroethene          | 10.72 | 164  | 119193   | 29.257 | ug/L  | 100      |
| 48) 2-Hexanone                 | 10.83 | 43   | 195398   | 64.339 | ug/L  | 100      |
| 49) Dibromochloromethane       | 10.98 | 129  | 137594   | 29.179 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 11.09 | 107  | 106953   | 27.524 | ug/L  | 100      |
| 51) Chlorobenzene              | 11.51 | 112  | 355551   | 27.288 | ug/L  | 100      |
| 52) Ethylbenzene               | 11.59 | 91   | 619769   | 28.887 | ug/L  | 100      |
| 53) m,p-Xylene                 | 11.70 | 106  | 233911   | 28.171 | ug/L  | 100      |
| 54) o-Xylene                   | 12.03 | 106  | 229450   | 28.795 | ug/L  | 100      |
| 55) Styrene                    | 12.04 | 104  | 398356   | 29.156 | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 127386   | 28.894 | ug/L  | 100      |
| 59) Bromoform                  | 12.20 | 173  | 99677    | 28.185 | ug/L  | 100      |
| 60) Isopropylbenzene           | 12.32 | 105  | 621849   | 27.380 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane     | 12.63 | 75   | 112734   | 27.055 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 521934   | 28.817 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 528225   | 29.222 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 13.36 | 146  | 295582   | 26.981 | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene        | 13.44 | 146  | 300192   | 26.962 | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene        | 13.73 | 146  | 277235   | 27.171 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropropan | 14.35 | 75   | 29281    | 31.017 | ug/L  | 100      |
| 69) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 231174   | 29.216 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 15.00 | 180  | 197839   | 29.291 | ug/L  | 100      |
| 71) Naphthalene                | 15.23 | 128  | 414833   | 29.216 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 177209   | 28.765 | ug/L  | 100      |

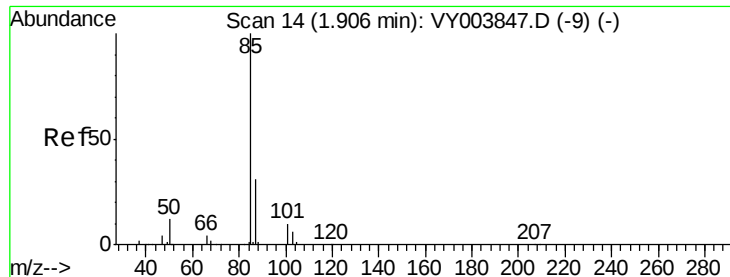
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 32.355 ug/L

RT: 1.91 min Scan# 14

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

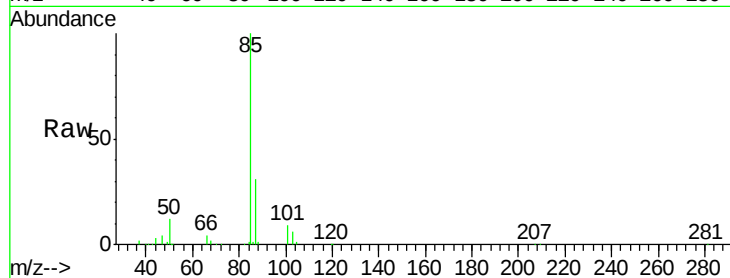
VSTD02533

Tgt Ion: 85 Resp: 124679

Ion Ratio Lower Upper

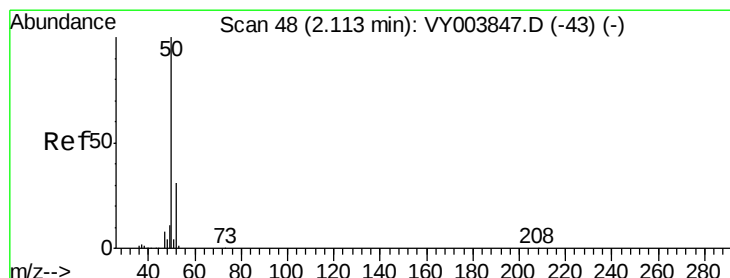
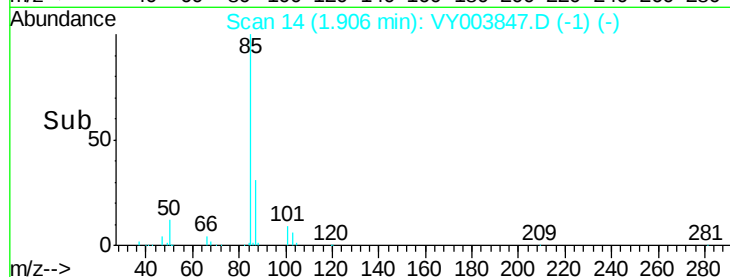
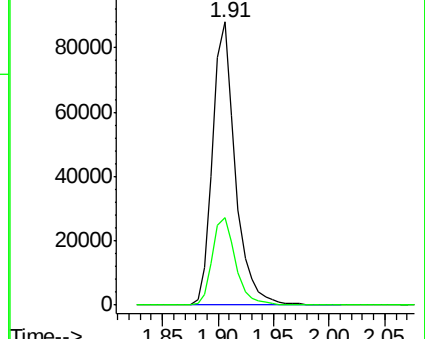
85 100

87 31.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 32.155 ug/L

RT: 2.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VY003847.D

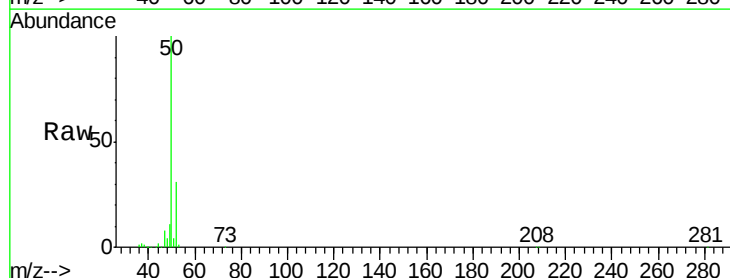
Acq: 29 Dec 2020 11:24

Tgt Ion: 50 Resp: 143266

Ion Ratio Lower Upper

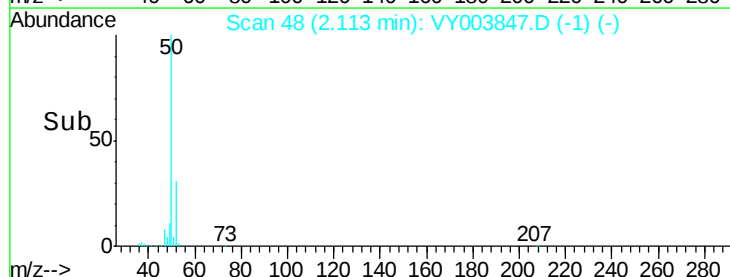
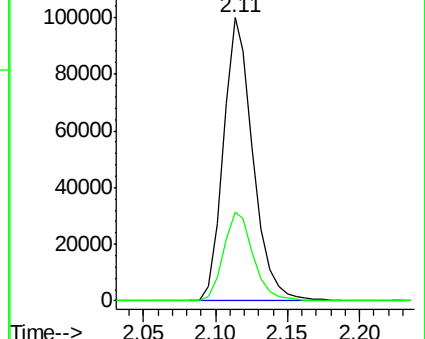
50 100

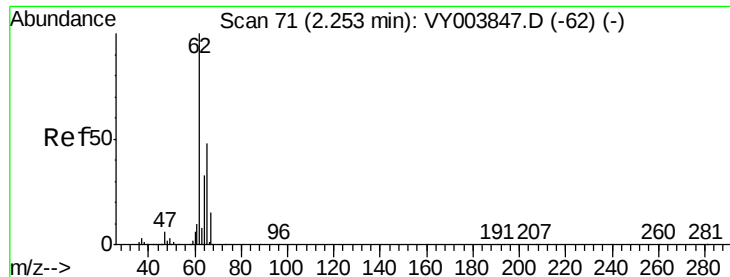
52 31.5 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 35.140 ug/L

RT: 2.25 min Scan# 71

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

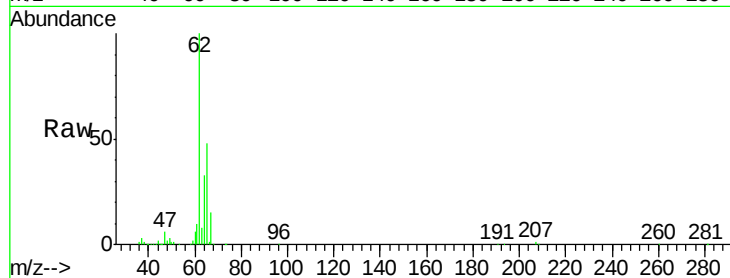
VSTD02533

Tgt Ion: 62 Resp: 161625

Ion Ratio Lower Upper

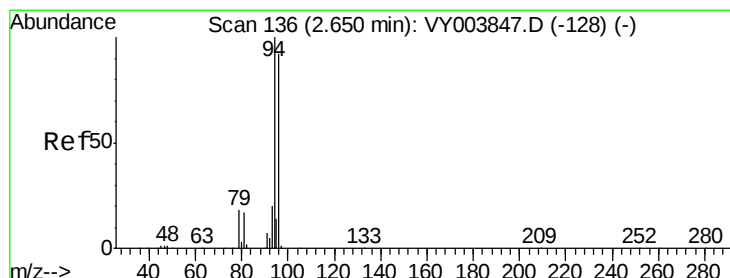
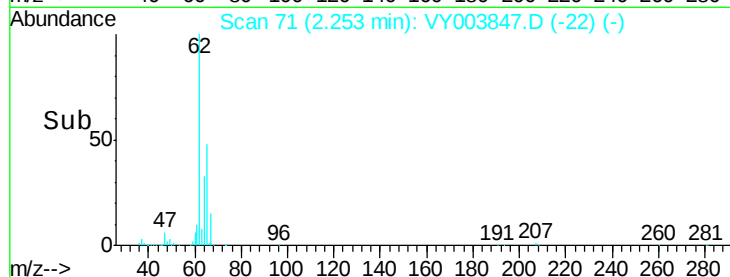
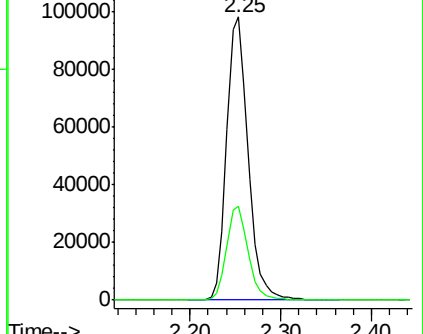
62 100

64 33.2 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: 34.156 ug/L

RT: 2.65 min Scan# 136

Delta R.T. 0.00 min

Lab File: VY003847.D

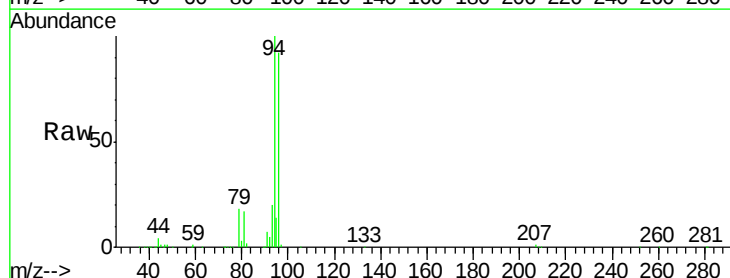
Acq: 29 Dec 2020 11:24

Tgt Ion: 94 Resp: 99821

Ion Ratio Lower Upper

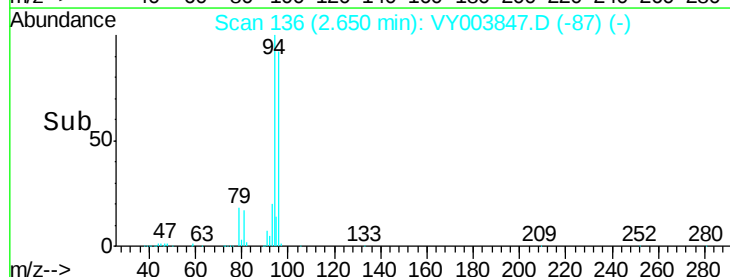
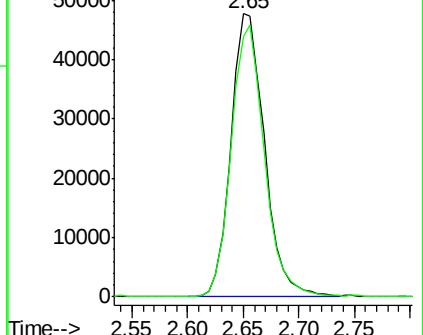
94 100

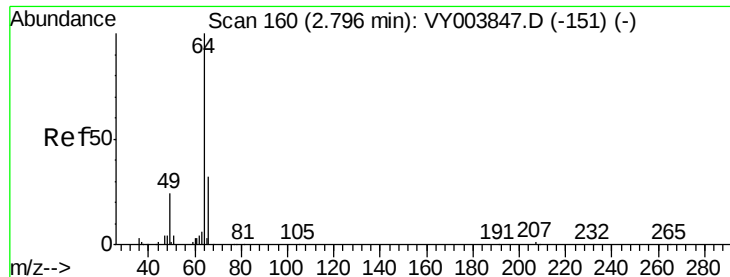
96 91.8 64.3 119.3



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0

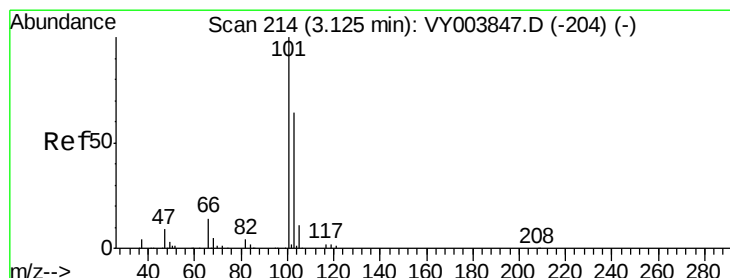
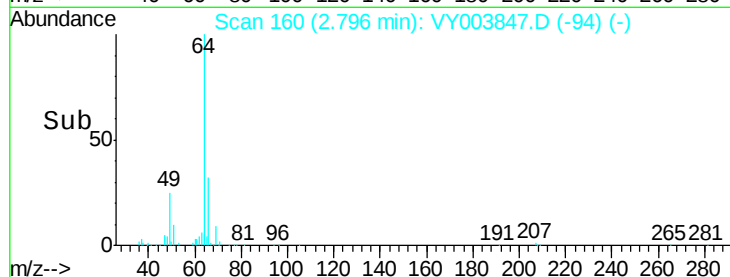
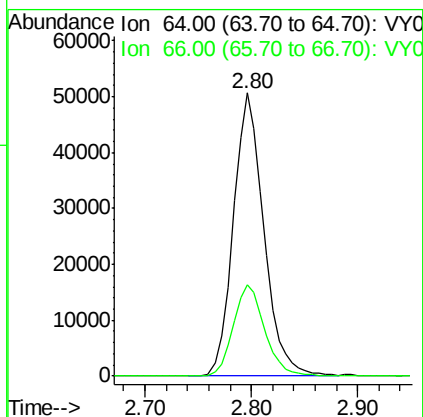
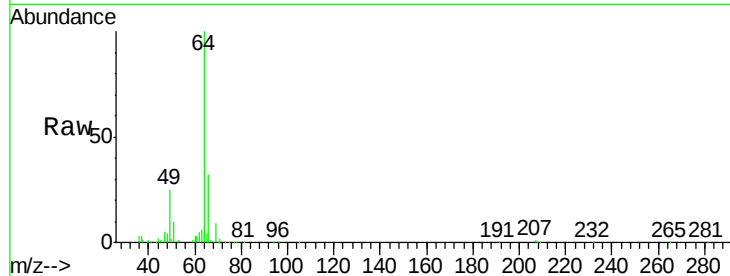




#8  
Chloroethane  
Concen: 35.519 ug/L  
RT: 2.80 min Scan# 160  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

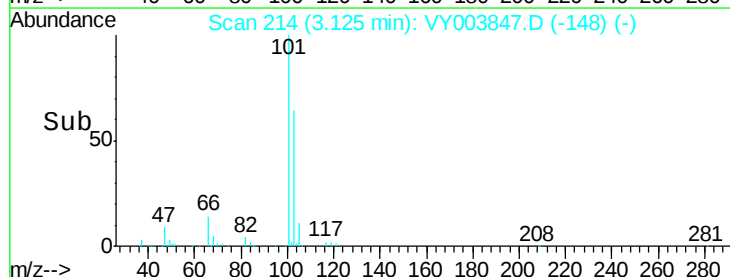
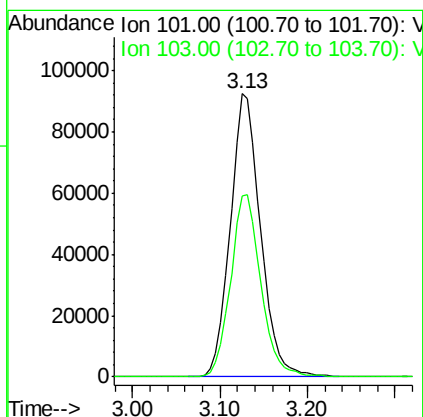
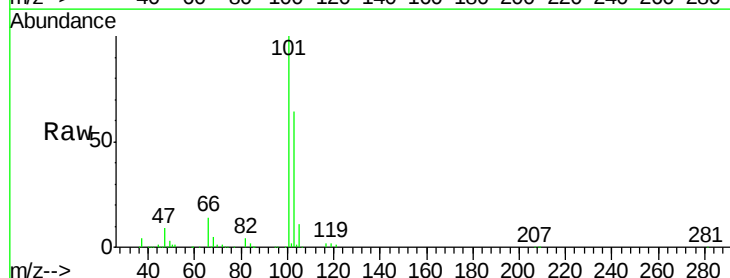
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02533

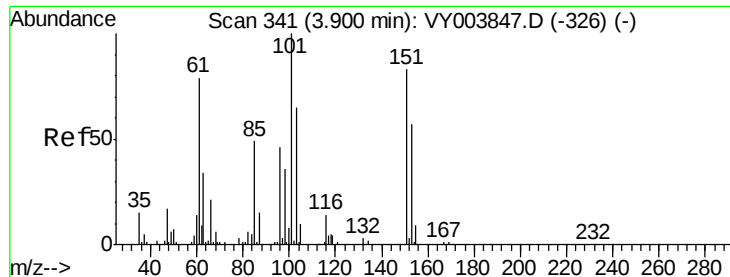
Tgt Ion: 64 Resp: 101883  
Ion Ratio Lower Upper  
64 100  
66 32.1 22.5 41.7



#9  
Trichlorofluoromethane  
Concen: 32.150 ug/L  
RT: 3.13 min Scan# 214  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

Tgt Ion: 101 Resp: 222353  
Ion Ratio Lower Upper  
101 100  
103 64.2 51.4 77.0





#10

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

Concen: 27.045 ug/L

RT: 3.90 min Scan# 341

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02533

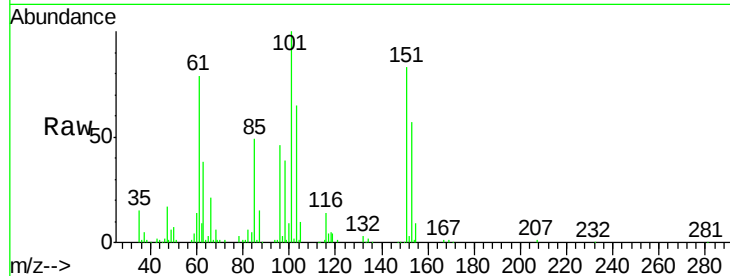
Tgt Ion: 101 Resp: 116624

Ion Ratio Lower Upper

101 100

85 46.4 37.1 55.7

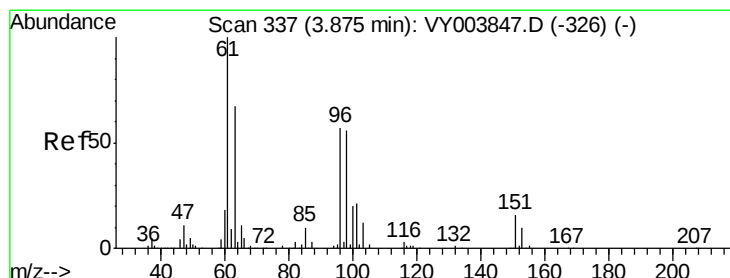
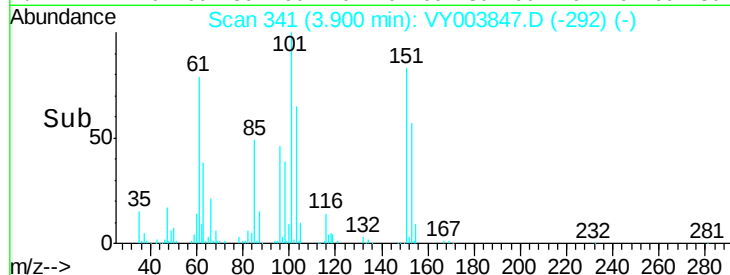
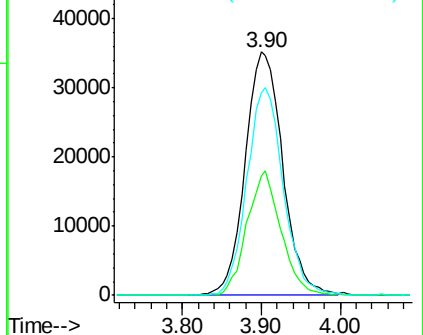
151 83.0 66.4 99.6



Abundance Ion 101.00 (100.70 to 101.70): VY003847.D (-326) (-)

Ion 85.00 (84.70 to 85.70): VY003847.D (-326) (-)

Ion 151.00 (150.70 to 151.70): VY003847.D (-326) (-)



#12

1,1-Dichloroethene

Concen: 26.987 ug/L

RT: 3.88 min Scan# 337

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

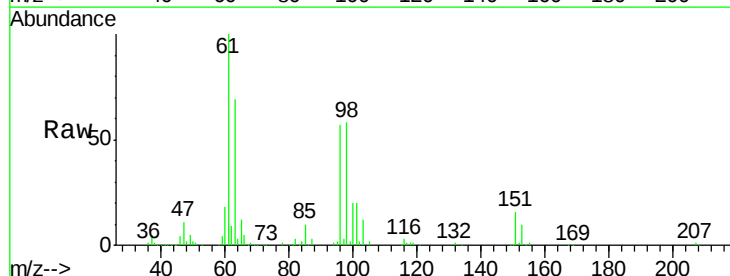
Tgt Ion: 96 Resp: 110818

Ion Ratio Lower Upper

96 100

61 176.9 123.8 230.0

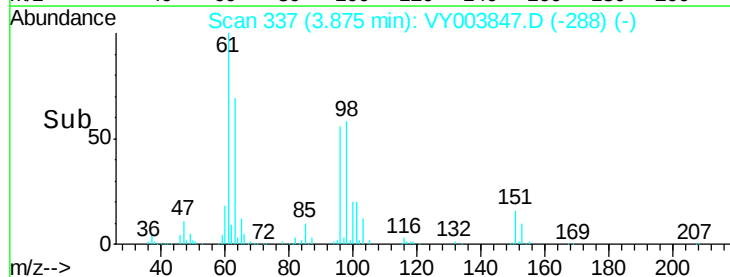
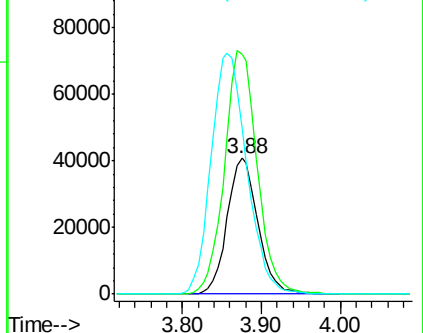
63 121.8 85.3 158.3

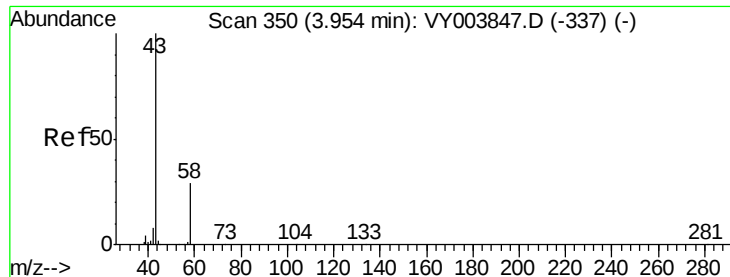


Abundance Ion 96.00 (95.70 to 96.70): VY003847.D (-326) (-)

Ion 61.00 (60.70 to 61.70): VY003847.D (-326) (-)

Ion 63.00 (62.70 to 63.70): VY003847.D (-326) (-)





#13

Acetone

Concen: 63.070 ug/L

RT: 3.95 min Scan# 350

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

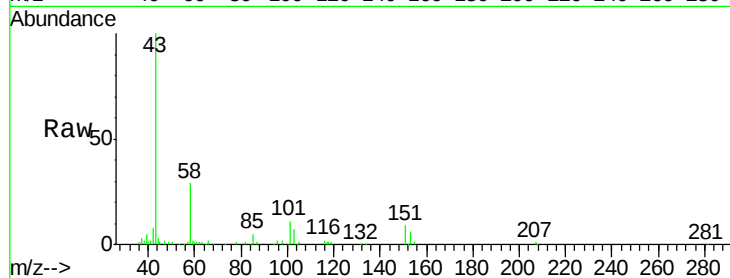
VSTD02533

Tgt Ion: 43 Resp: 79106

Ion Ratio Lower Upper

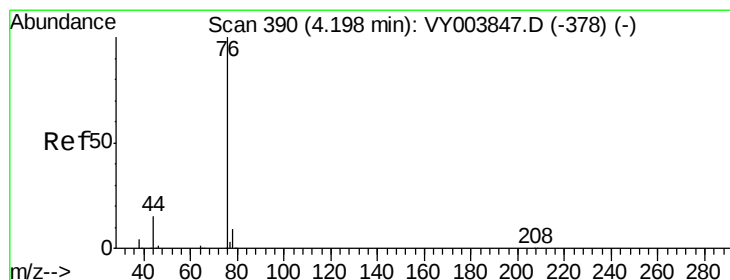
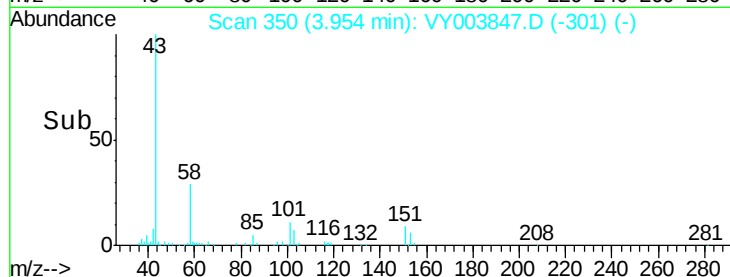
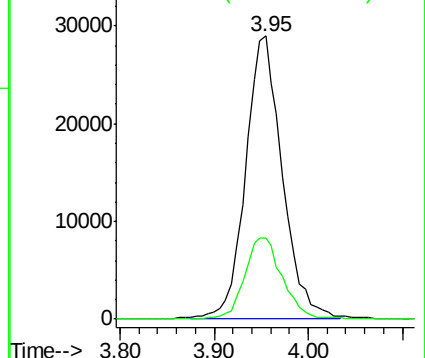
43 100

58 29.2 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 28.464 ug/L

RT: 4.20 min Scan# 390

Delta R.T. 0.00 min

Lab File: VY003847.D

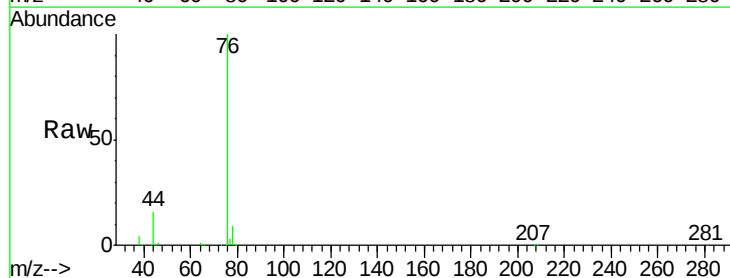
Acq: 29 Dec 2020 11:24

Tgt Ion: 76 Resp: 382882

Ion Ratio Lower Upper

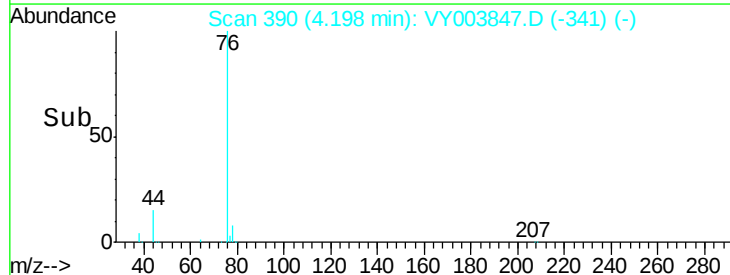
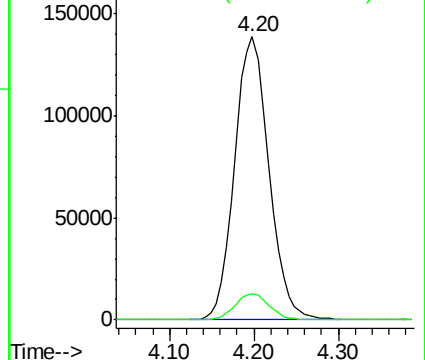
76 100

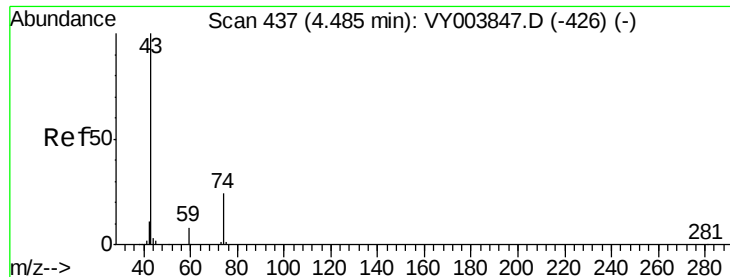
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0

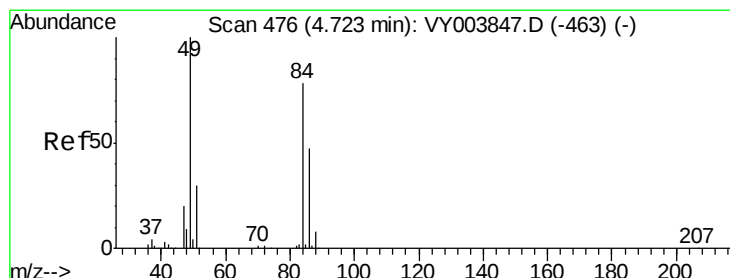
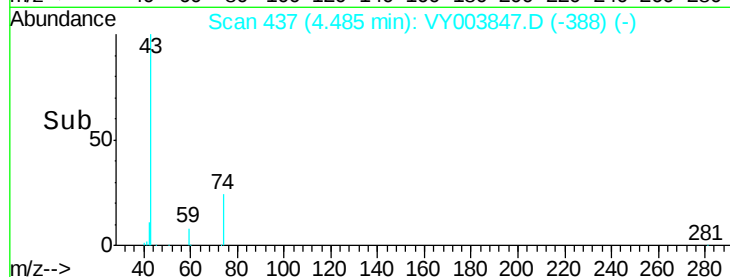
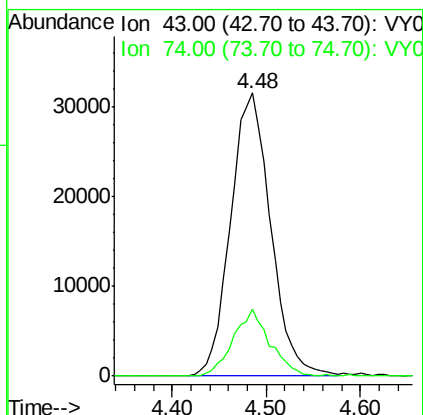
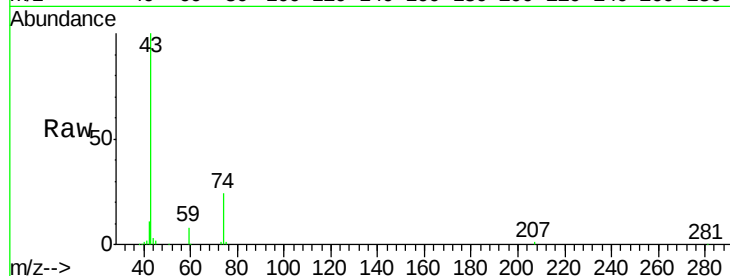




#15  
Methyl Acetate  
Concen: 29.929 ug/L  
RT: 4.48 min Scan# 437  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

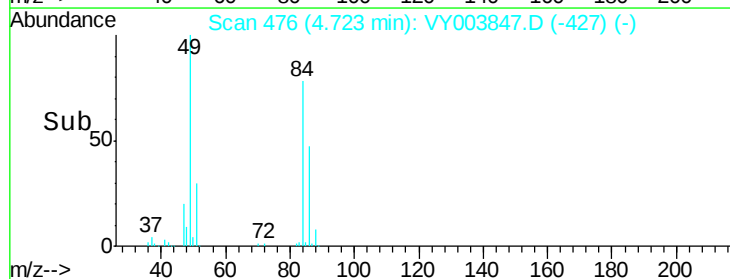
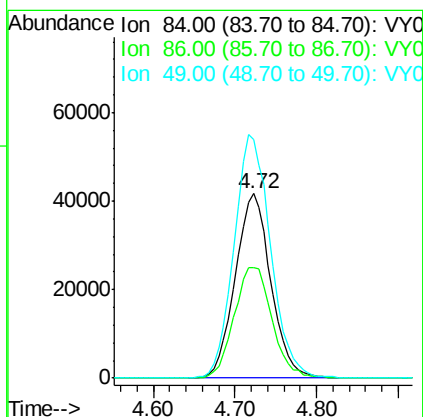
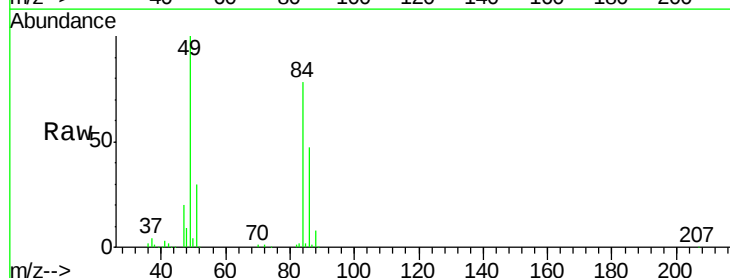
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02533

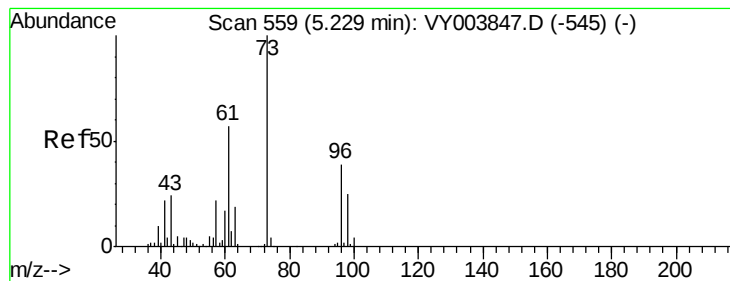
Tgt Ion: 43 Resp: 93191  
Ion Ratio Lower Upper  
43 100  
74 21.8 17.4 26.2



#16  
Methylene chloride  
Concen: 21.115 ug/L  
RT: 4.72 min Scan# 476  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

Tgt Ion: 84 Resp: 126335  
Ion Ratio Lower Upper  
84 100  
86 60.2 42.1 78.3  
49 129.0 90.3 167.7





#17

trans-1,2-Dichloroethene

Concen: 26.662 ug/L

RT: 5.23 min Scan# 559

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02533

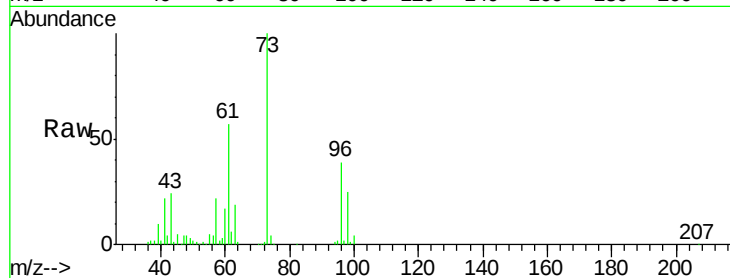
Tgt Ion: 96 Resp: 121956

Ion Ratio Lower Upper

96 100

61 145.3 101.7 188.9

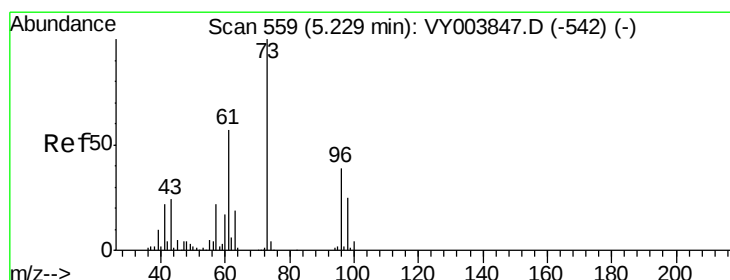
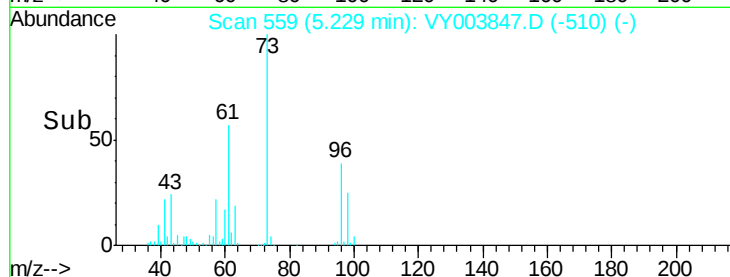
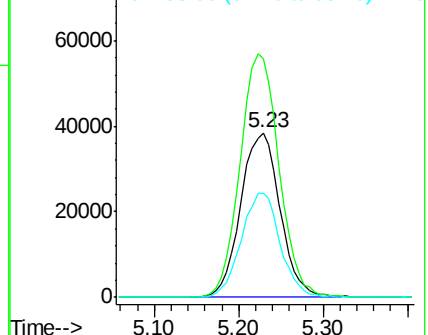
98 63.3 44.3 82.3



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



#18

Methyl tert-butyl Ether

Concen: 30.162 ug/L

RT: 5.23 min Scan# 559

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

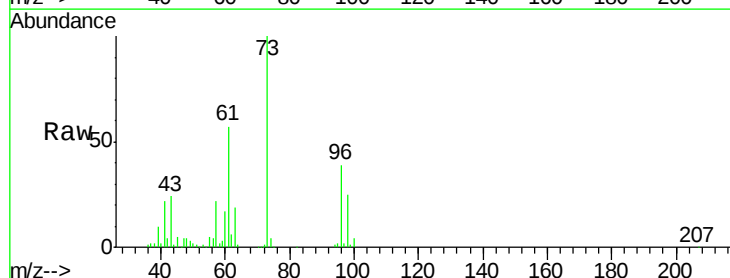
Tgt Ion: 73 Resp: 359242

Ion Ratio Lower Upper

73 100

43 23.0 18.4 27.6

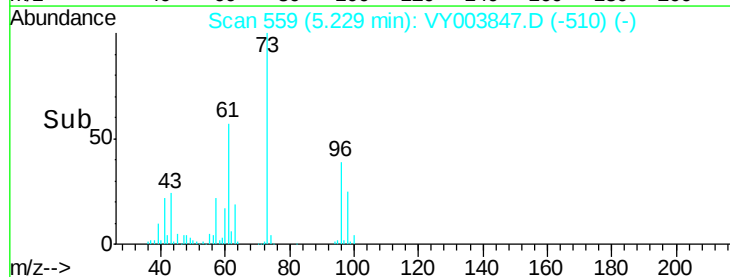
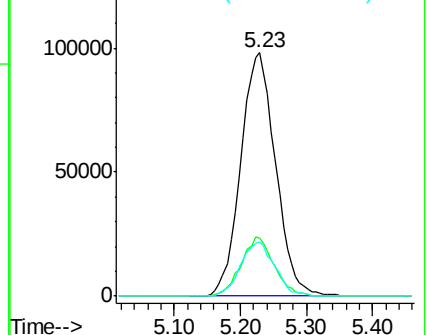
57 22.0 17.6 26.4

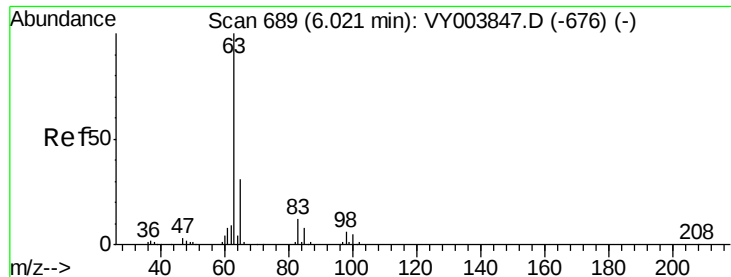


Abundance Ion 73.00 (72.70 to 73.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

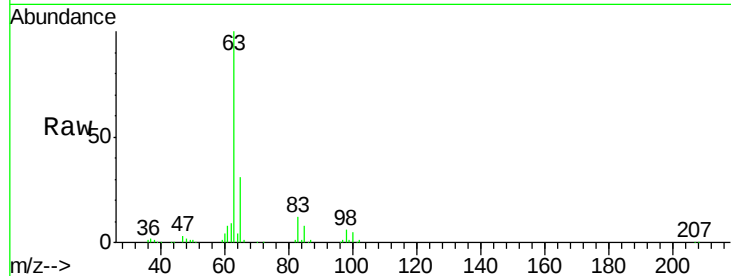




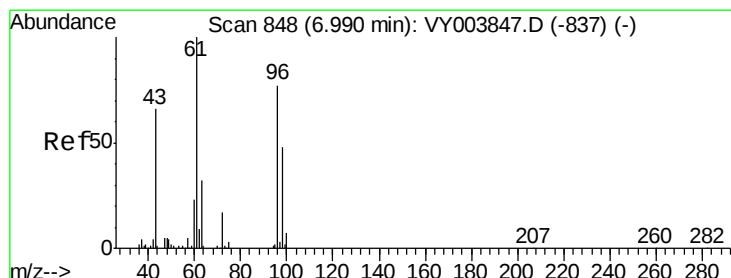
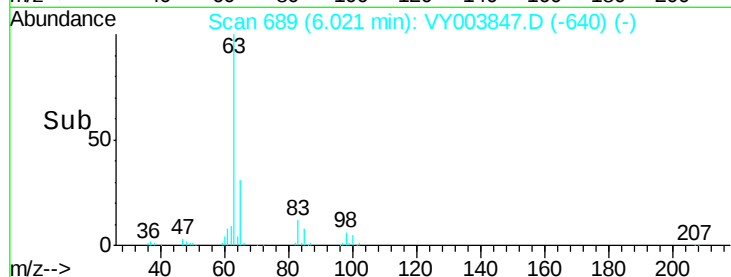
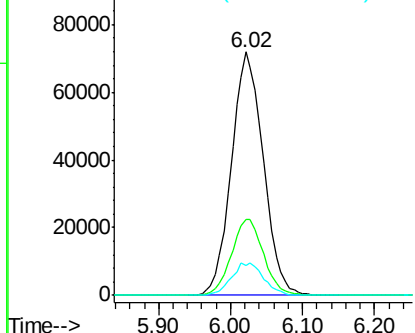
#19  
 1,1-Dichloroethane  
 Concen: 28.646 ug/L  
 RT: 6.02 min Scan# 689  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02533

Tgt Ion: 63 Resp: 221176  
 Ion Ratio Lower Upper  
 63 100  
 65 31.3 21.9 40.7  
 83 12.4 8.7 16.1

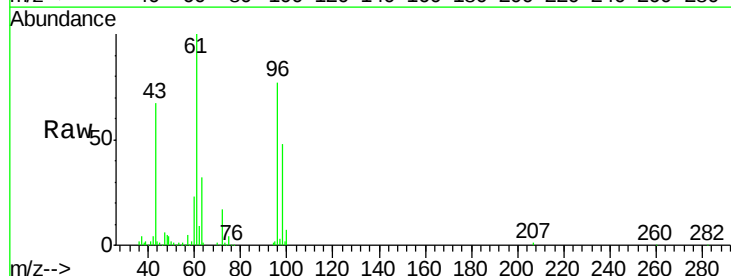


Abundance Ion 63.00 (62.70 to 63.70): VY0  
 Ion 65.00 (64.70 to 65.70): VY0  
 Ion 83.00 (82.70 to 83.70): VY0

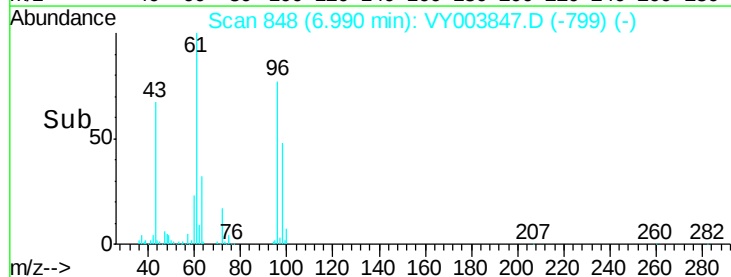
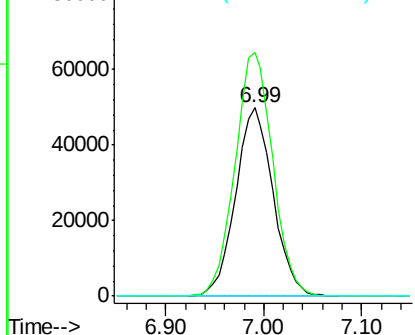


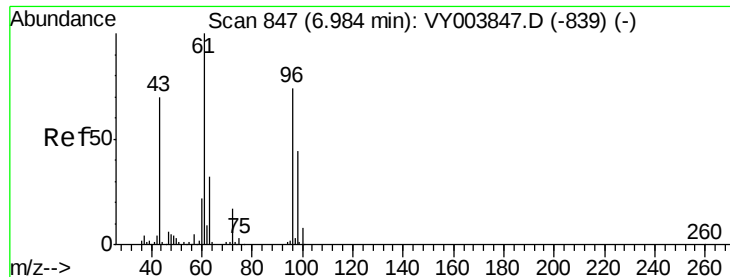
#20  
 cis-1,2-Dichloroethene  
 Concen: 27.026 ug/L  
 RT: 6.99 min Scan# 848  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

Tgt Ion: 96 Resp: 132313  
 Ion Ratio Lower Upper  
 96 100  
 61 129.5 90.6 168.3  
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VY0  
 Ion 61.00 (60.70 to 61.70): VY0  
 Ion 68.00 (67.70 to 68.70): VY0





#22

2-Butanone

Concen: 56.096 ug/L

RT: 6.98 min Scan# 847

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

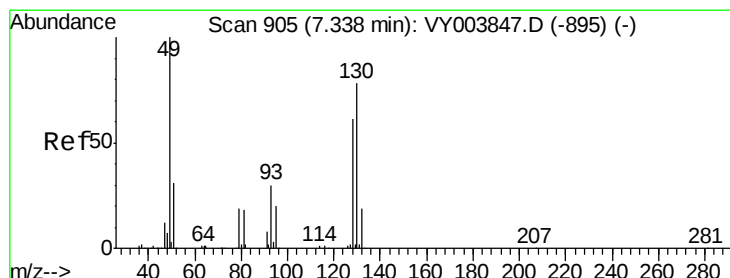
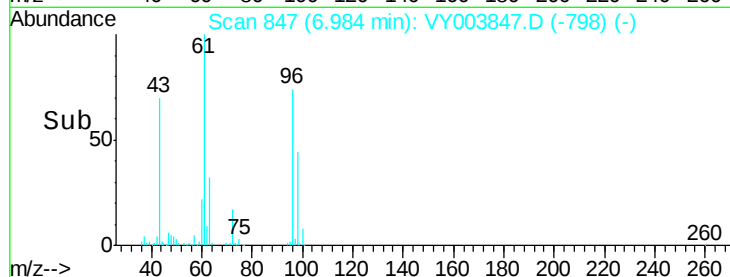
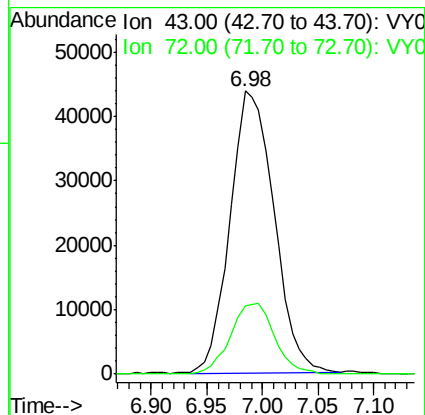
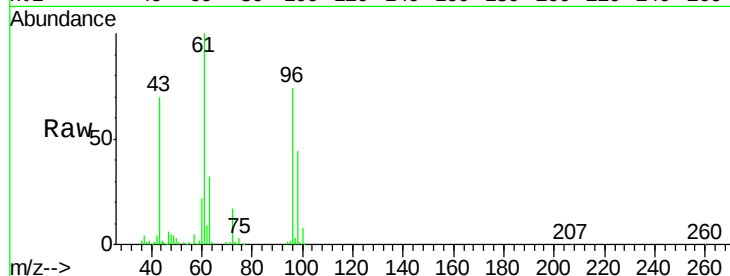
VSTD02533

Tgt Ion: 43 Resp: 120649

Ion Ratio Lower Upper

43 100

72 25.2 12.6 37.8



#23

Bromochloromethane

Concen: 26.797 ug/L

RT: 7.34 min Scan# 905

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Tgt Ion: 128 Resp: 65204

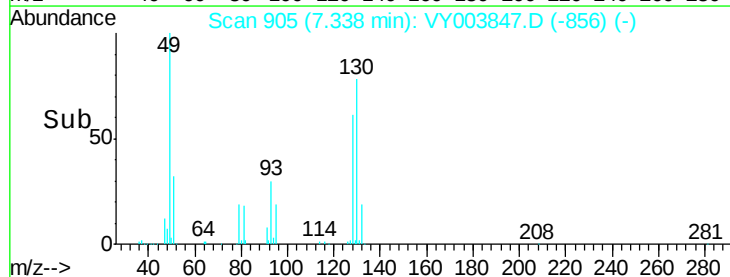
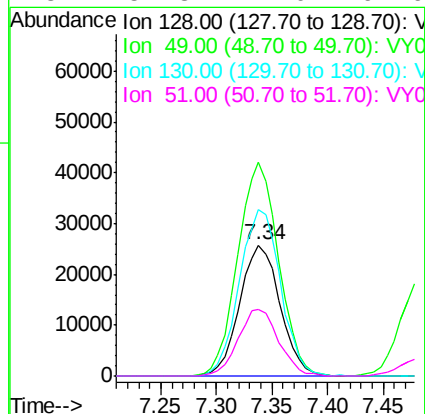
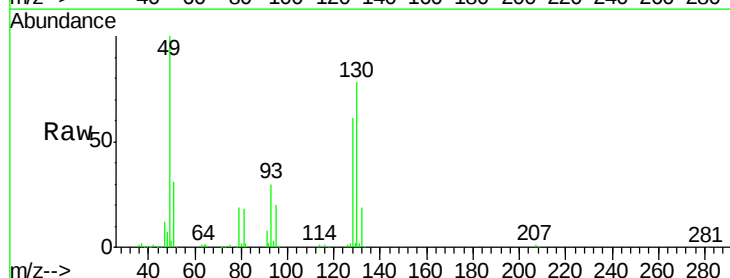
Ion Ratio Lower Upper

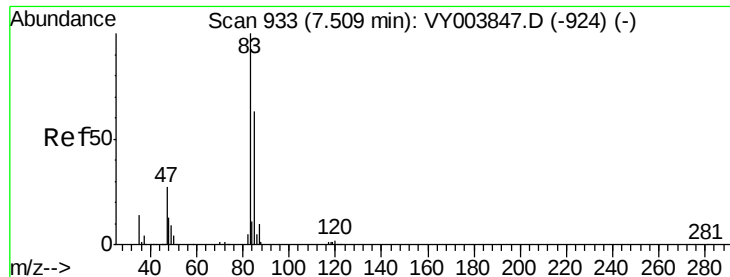
128 100

49 163.4 114.4 212.4

130 126.8 88.8 164.8

51 51.3 41.0 61.6





#25

Chloroform

Concen: 29.079 ug/L

RT: 7.51 min Scan# 933

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

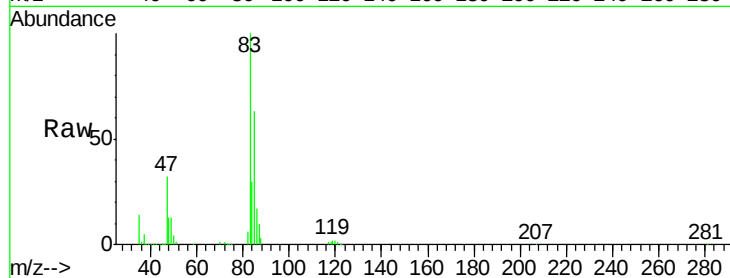
VSTD02533

Tgt Ion: 83 Resp: 229573

Ion Ratio Lower Upper

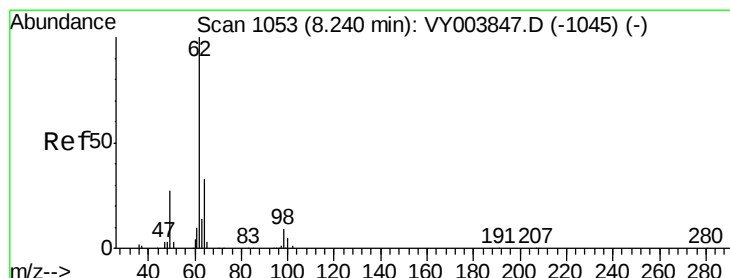
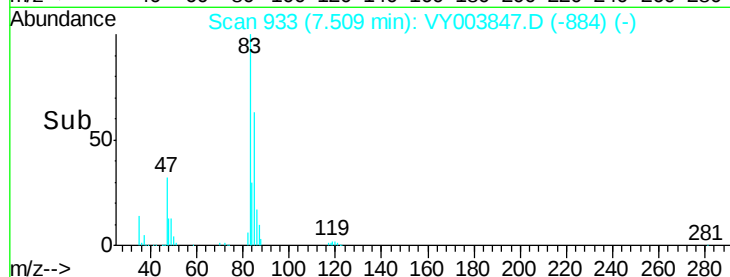
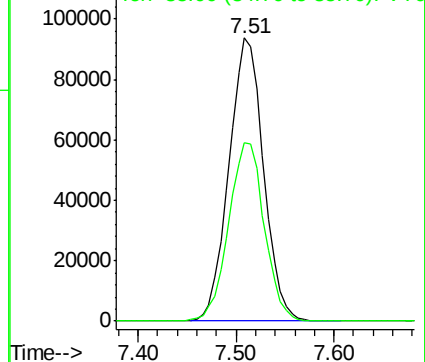
83 100

85 63.2 44.2 82.2



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0



#27

1,2-Dichloroethane

Concen: 32.644 ug/L

RT: 8.24 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VY003847.D

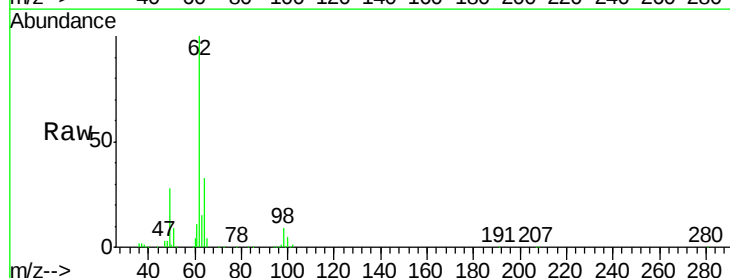
Acq: 29 Dec 2020 11:24

Tgt Ion: 62 Resp: 180397

Ion Ratio Lower Upper

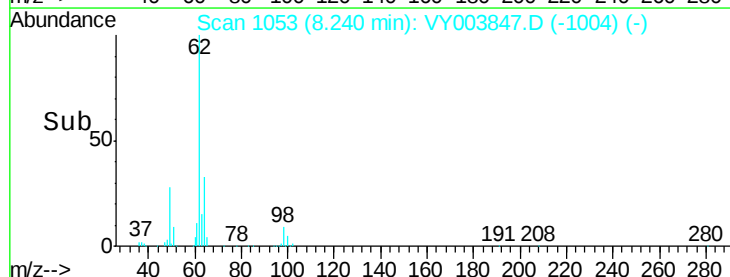
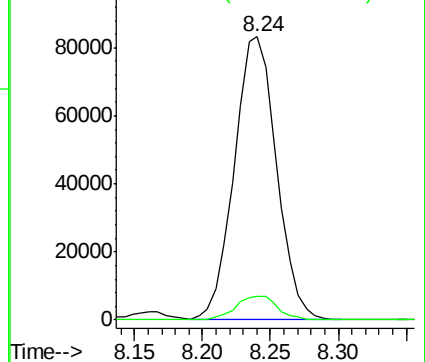
62 100

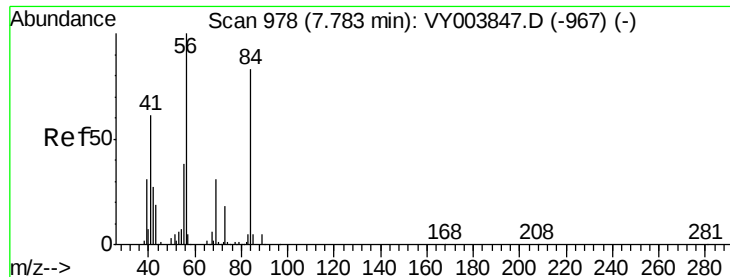
98 8.5 6.8 10.2



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

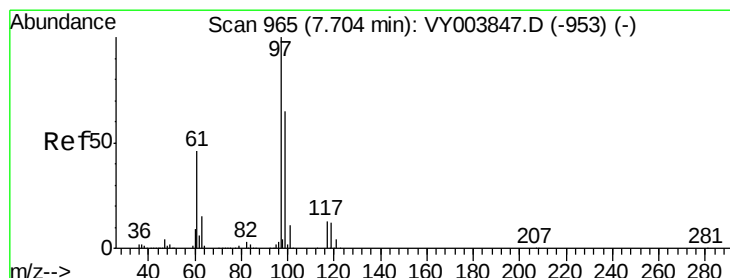
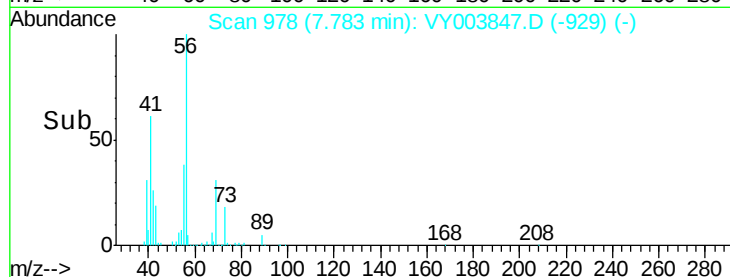
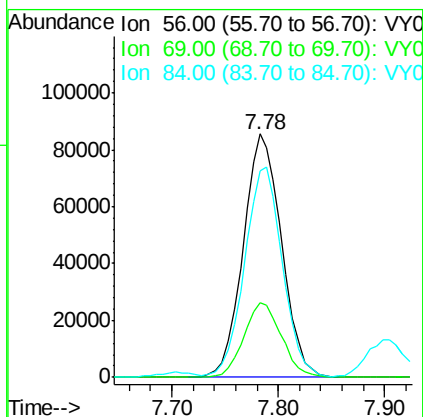
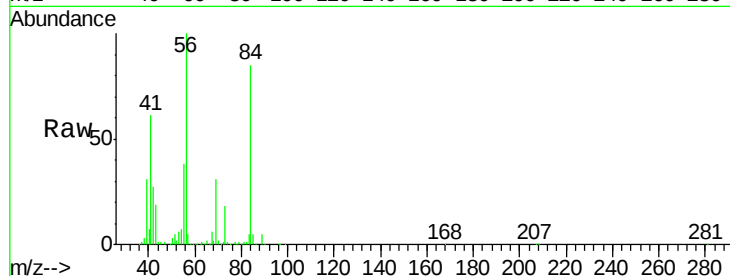




#29  
Cyclohexane  
Concen: 30.175 ug/L  
RT: 7.78 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

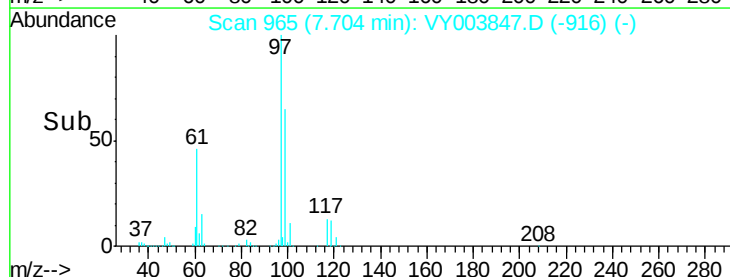
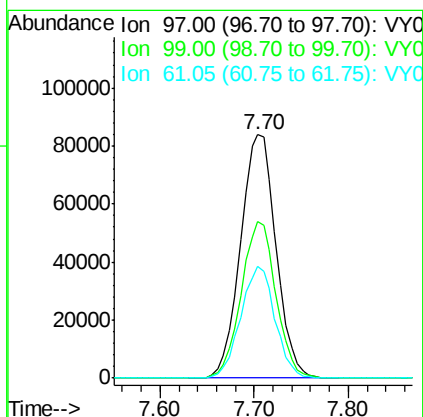
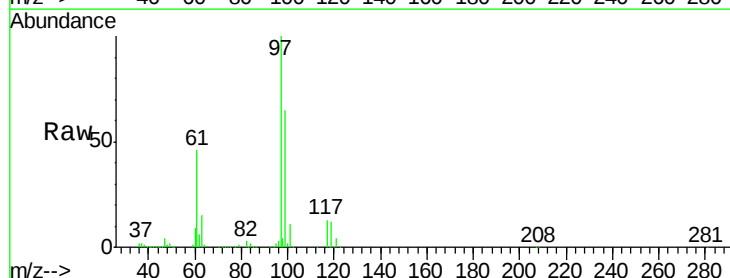
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02533

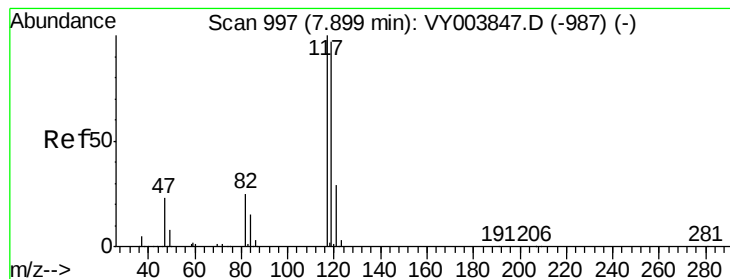
Tgt Ion: 56 Resp: 215147  
Ion Ratio Lower Upper  
56 100  
69 30.2 24.2 36.2  
84 85.9 68.7 103.1



#30  
1,1,1-Trichloroethane  
Concen: 31.119 ug/L  
RT: 7.70 min Scan# 965  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

Tgt Ion: 97 Resp: 220936  
Ion Ratio Lower Upper  
97 100  
99 63.1 50.5 75.7  
61 44.4 35.5 53.3



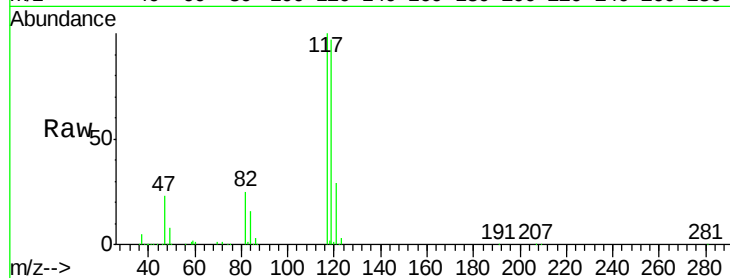


#31

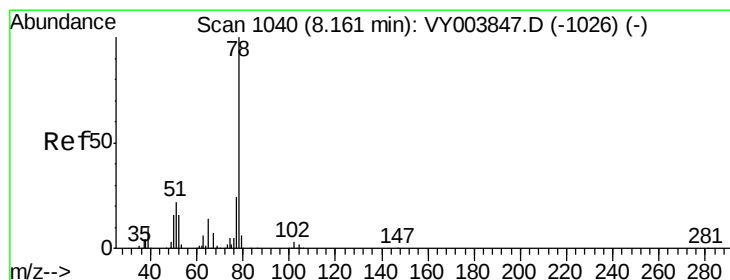
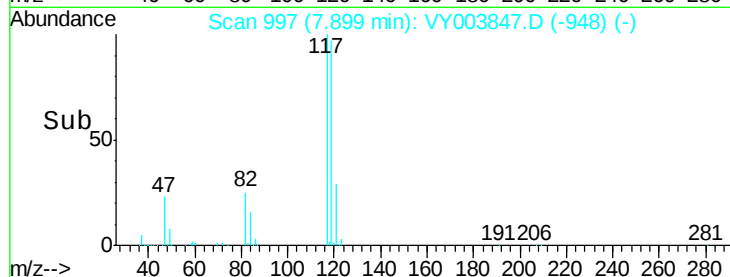
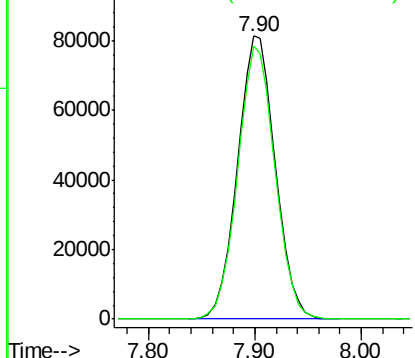
Carbon tetrachloride  
Concen: 31.393 ug/L  
RT: 7.90 min Scan# 997  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02533

Tgt Ion: 117 Resp: 201996  
Ion Ratio Lower Upper  
117 100  
119 95.3 76.2 114.4



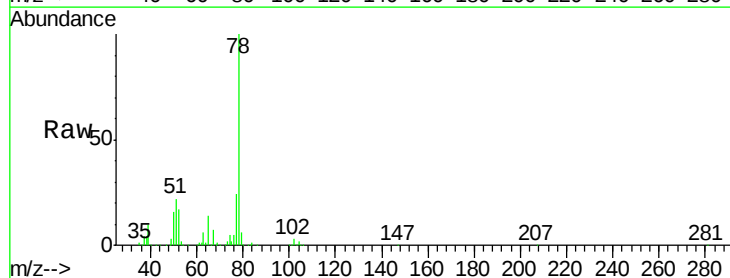
Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V



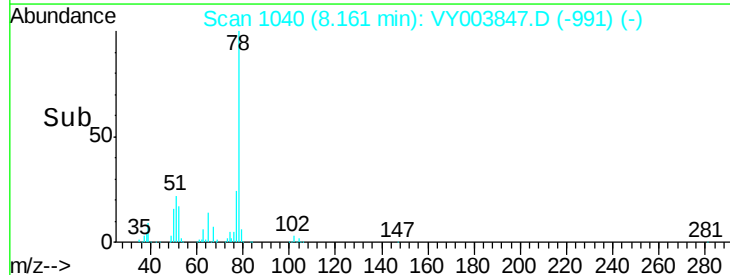
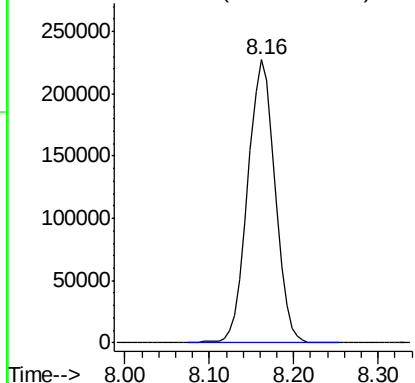
#33

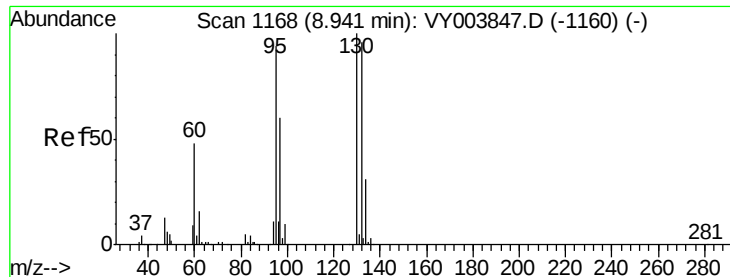
Benzene  
Concen: 27.050 ug/L  
RT: 8.16 min Scan# 1040  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

Tgt Ion: 78 Resp: 498891



Abundance Ion 78.00 (77.70 to 78.70): VY0

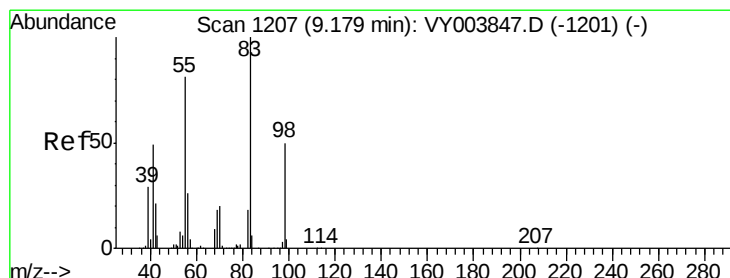
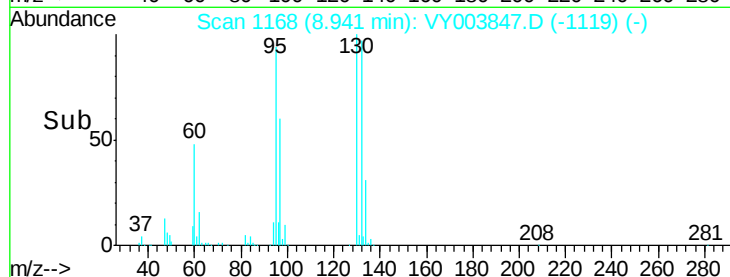
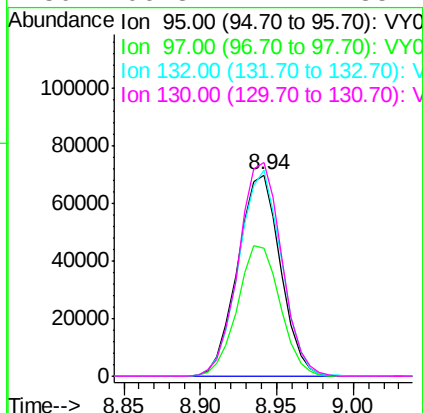
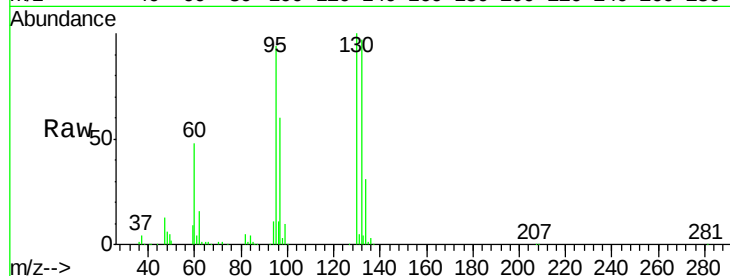




#34  
 Trichloroethene  
 Concen: 27.461 ug/L  
 RT: 8.94 min Scan# 1168  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

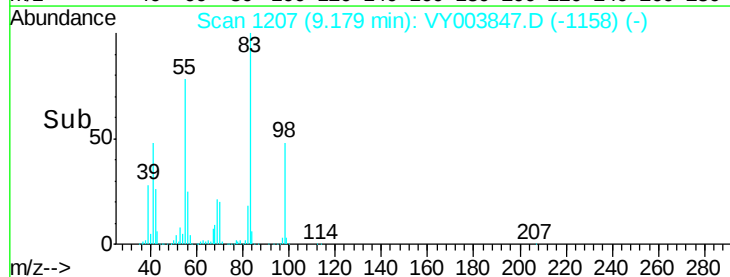
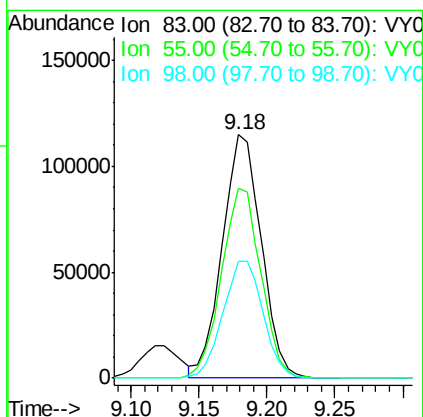
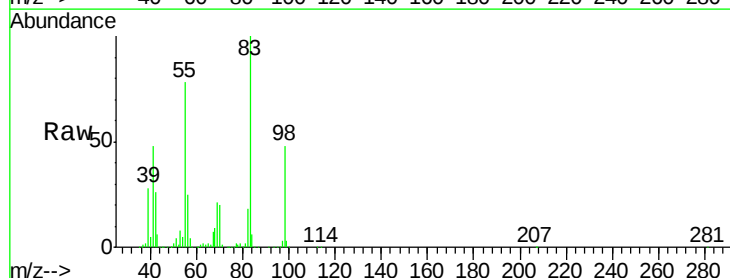
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 VSTD02533

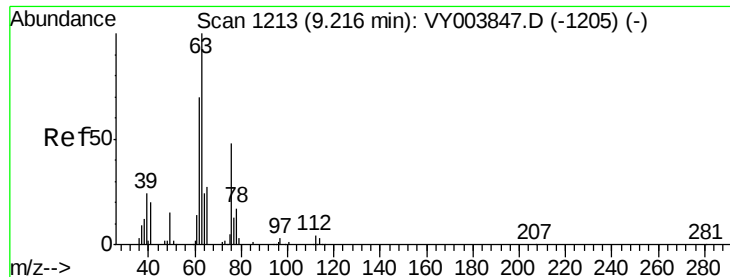
Tgt Ion: 95 Resp: 136676  
 Ion Ratio Lower Upper  
 95 100  
 97 63.5 44.4 82.5  
 132 102.6 71.8 133.4  
 130 106.3 74.4 138.2



#35  
 Methylcyclohexane  
 Concen: 28.861 ug/L  
 RT: 9.18 min Scan# 1207  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

Tgt Ion: 83 Resp: 228837  
 Ion Ratio Lower Upper  
 83 100  
 55 78.6 62.9 94.3  
 98 49.6 39.7 59.5

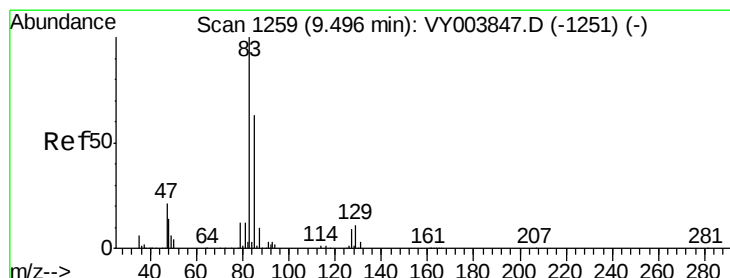
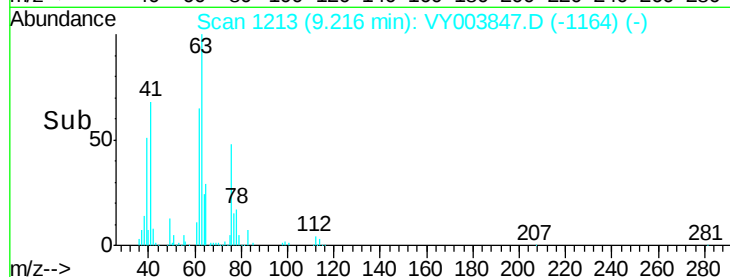
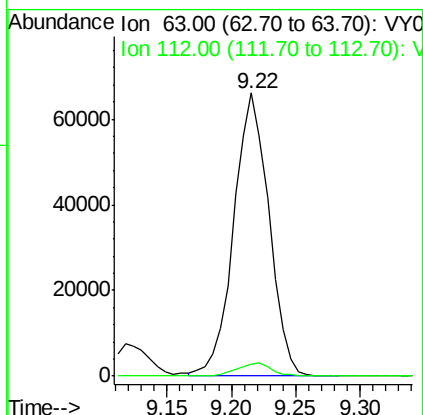
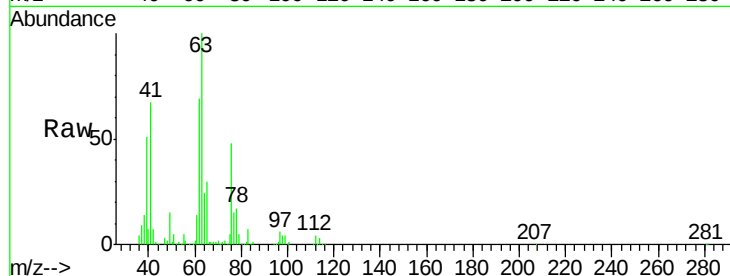




#37  
 1,2-Dichloropropane  
 Concen: 27.233 ug/L  
 RT: 9.22 min Scan# 1213  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

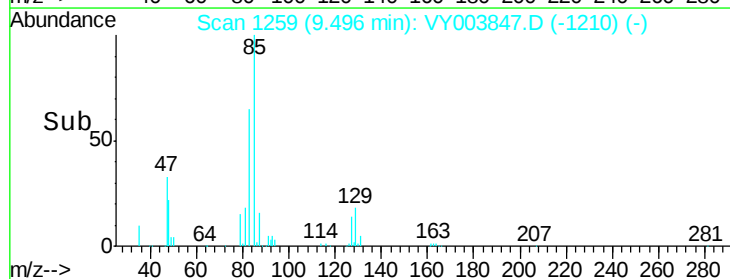
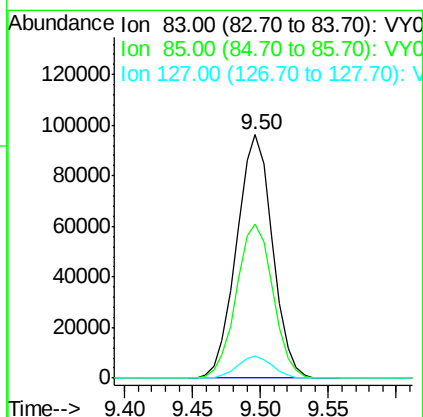
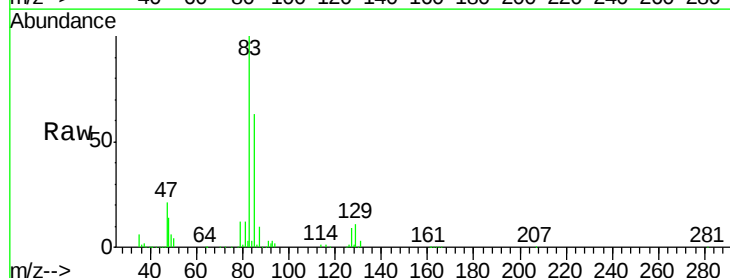
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02533

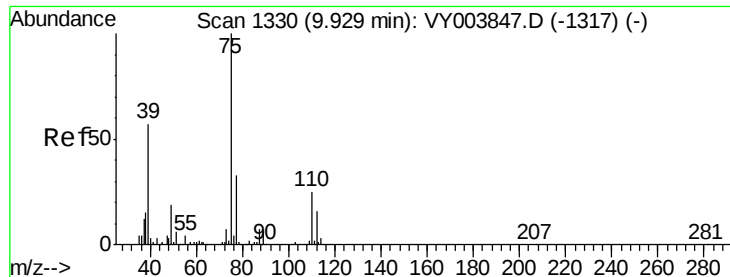
Tgt Ion: 63 Resp: 125450  
 Ion Ratio Lower Upper  
 63 100  
 112 4.6 3.7 5.5



#38  
 Bromodichloromethane  
 Concen: 29.363 ug/L  
 RT: 9.50 min Scan# 1259  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

Tgt Ion: 83 Resp: 177416  
 Ion Ratio Lower Upper  
 83 100  
 85 63.1 44.2 82.0  
 127 9.1 7.3 10.9





#39

cis-1,3-Dichloropropene

Concen: 29.255 ug/L

RT: 9.93 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

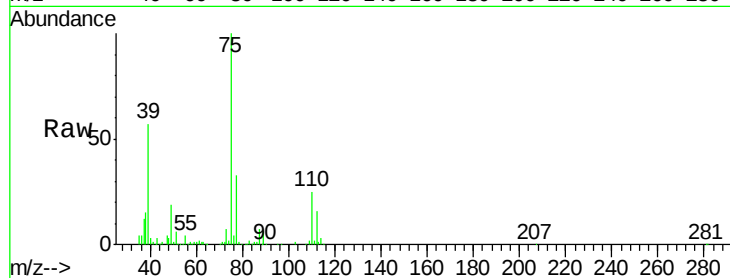
VSTD02533

Tgt Ion: 75 Resp: 216711

Ion Ratio Lower Upper

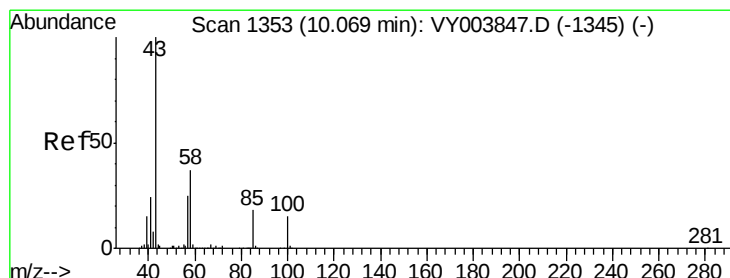
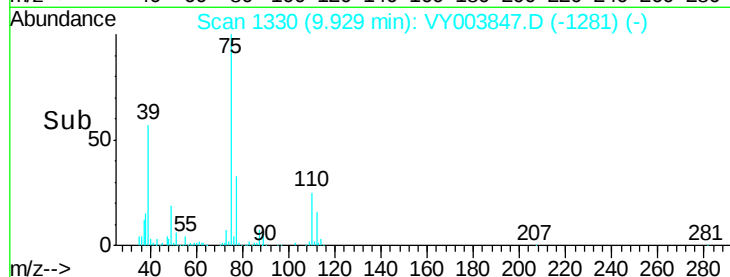
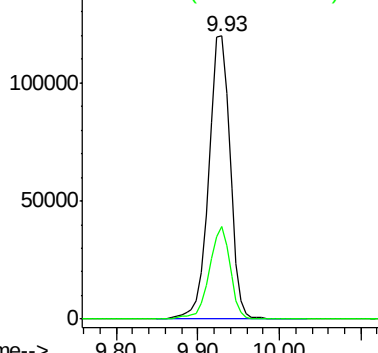
75 100

77 32.8 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0



#40

4-Methyl-2-pentanone

Concen: 62.723 ug/L

RT: 10.07 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

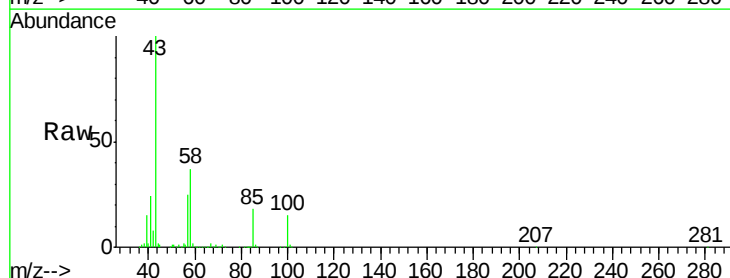
Tgt Ion: 43 Resp: 272011

Ion Ratio Lower Upper

43 100

58 37.0 29.6 44.4

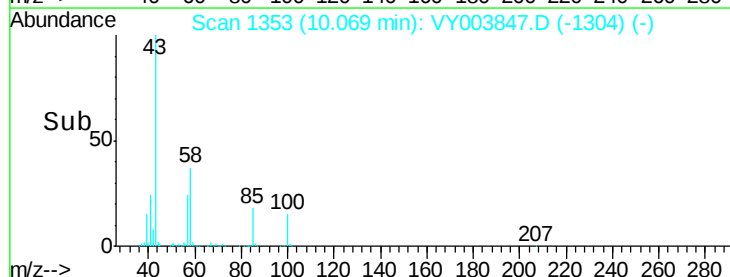
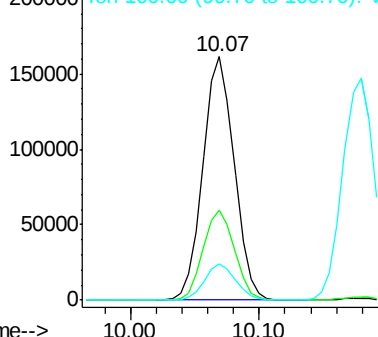
100 14.7 11.8 17.6

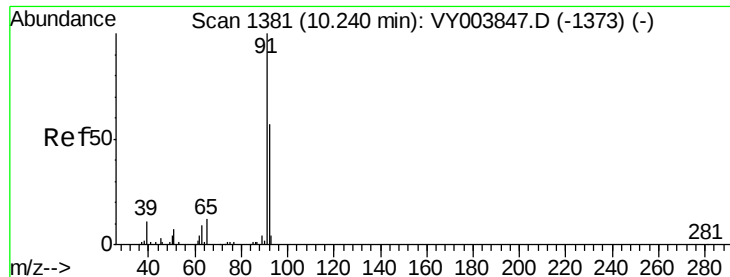


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#42

Toluene

Concen: 27.996 ug/L

RT: 10.24 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

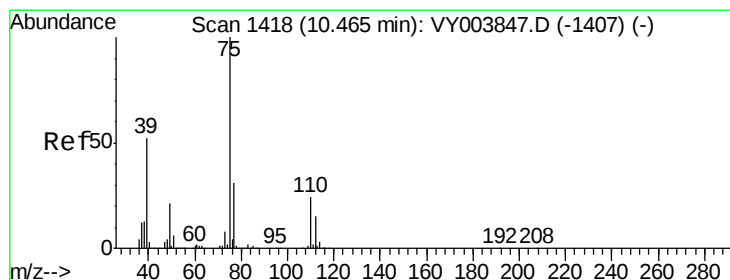
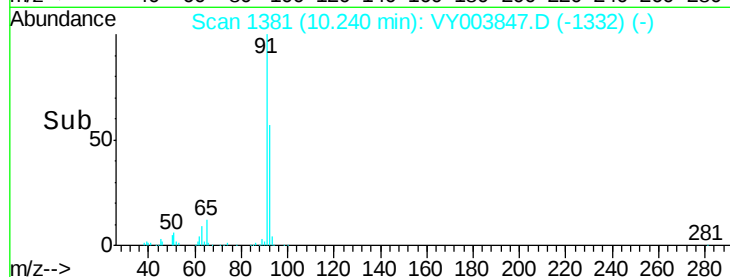
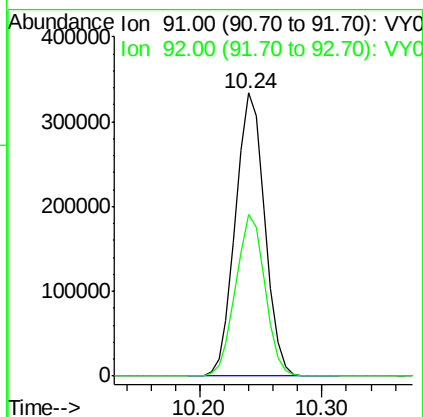
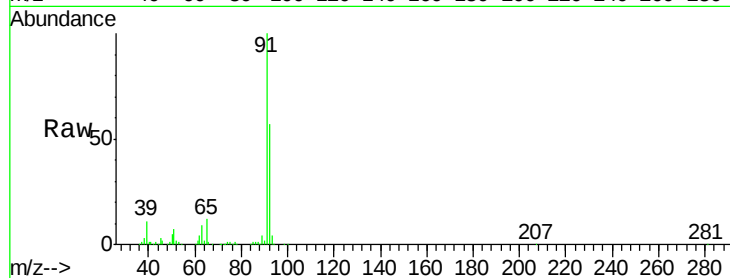
VSTD02533

Tgt Ion: 91 Resp: 553642

Ion Ratio Lower Upper

91 100

92 57.0 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 29.779 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VY003847.D

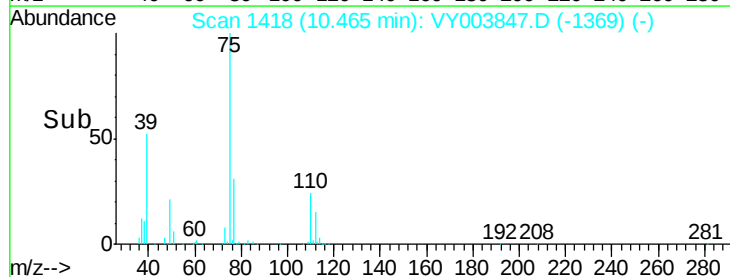
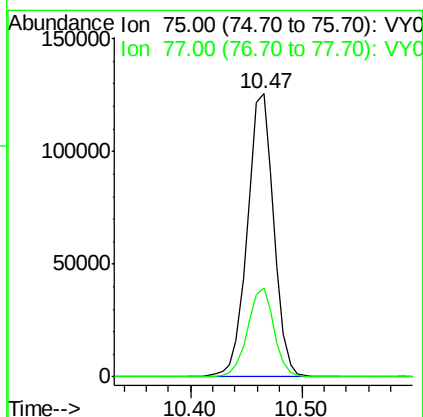
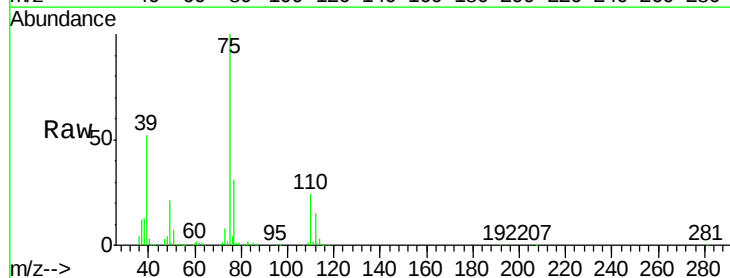
Acq: 29 Dec 2020 11:24

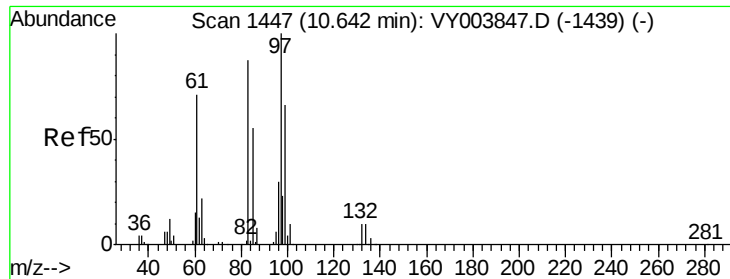
Tgt Ion: 75 Resp: 206933

Ion Ratio Lower Upper

75 100

77 31.3 21.9 40.7

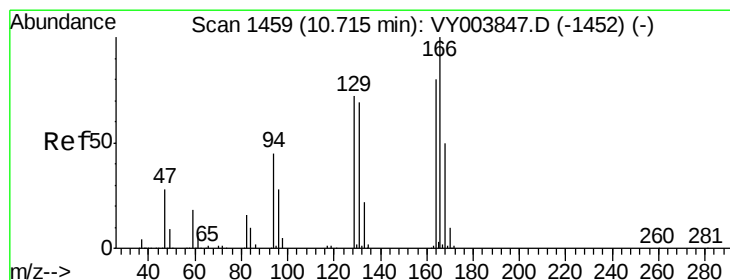
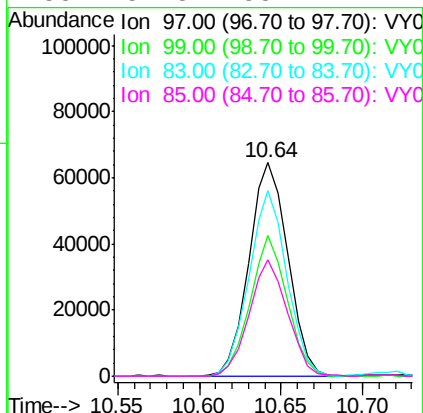
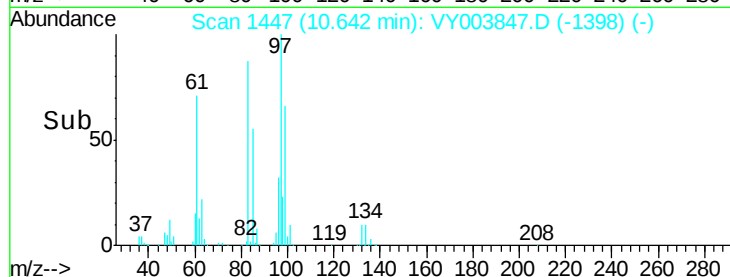
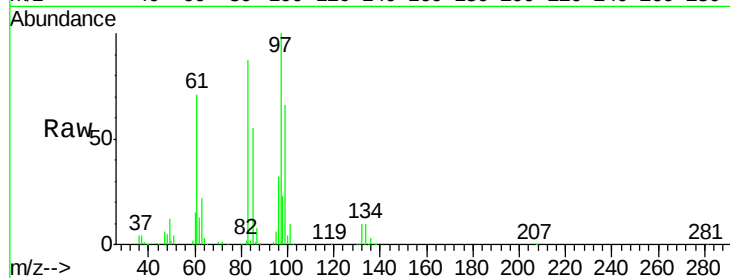




#45  
 1,1,2-Trichloroethane  
 Concen: 26.832 ug/L  
 RT: 10.64 min Scan# 1447  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

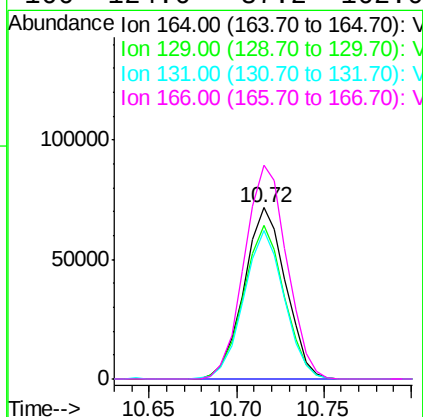
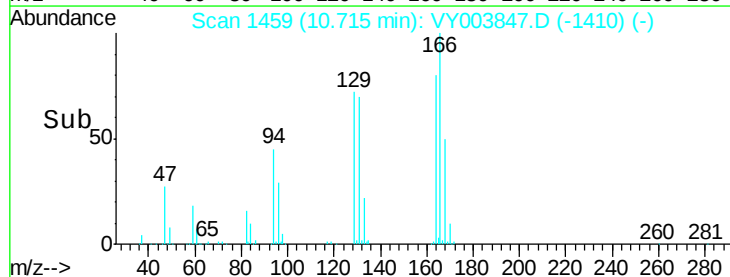
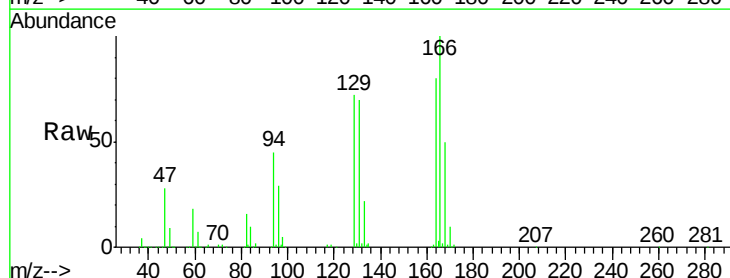
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02533

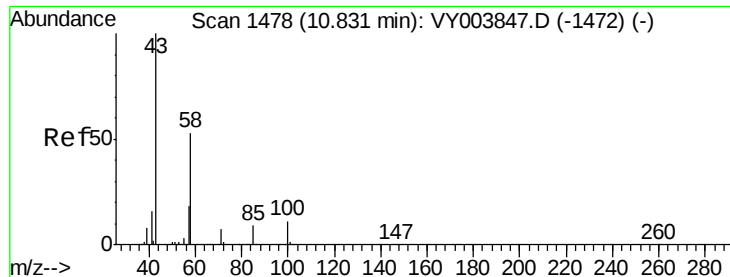
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 107736 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 65.7  | 46.0  | 85.4   |
| 83       | 86.8  | 60.8  | 112.8  |
| 85       | 54.8  | 38.4  | 71.2   |



#46  
 Tetrachloroethene  
 Concen: 29.257 ug/L  
 RT: 10.72 min Scan# 1459  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 119193 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 89.3  | 62.5  | 116.1  |
| 131      | 86.7  | 60.7  | 112.7  |
| 166      | 124.6 | 87.2  | 162.0  |

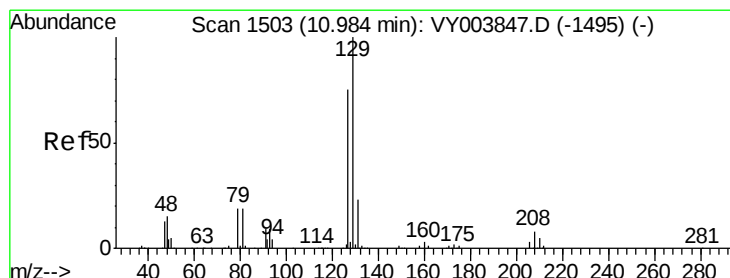
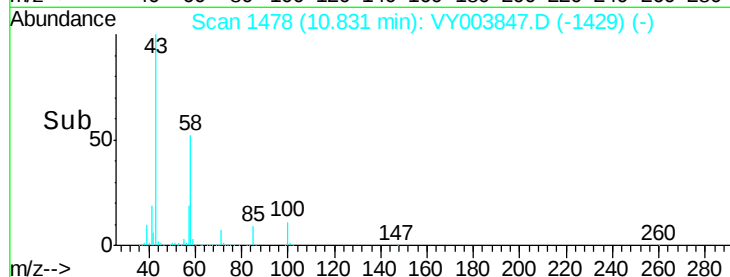
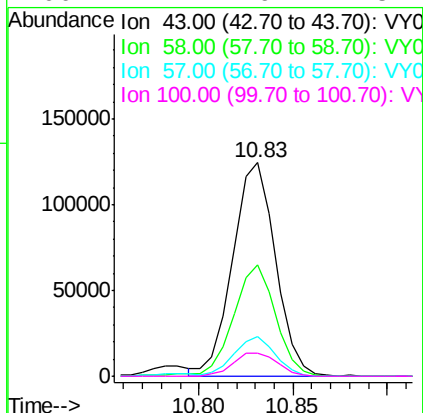
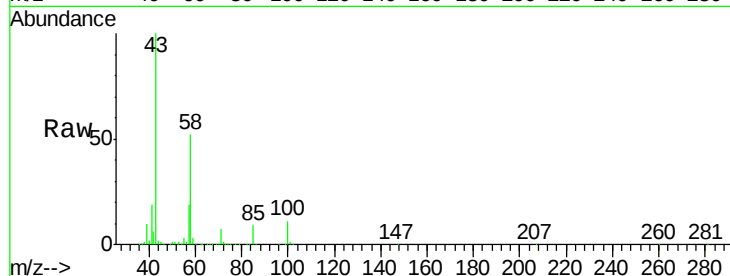




#48  
2-Hexanone  
Concen: 64.339 ug/L  
RT: 10.83 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

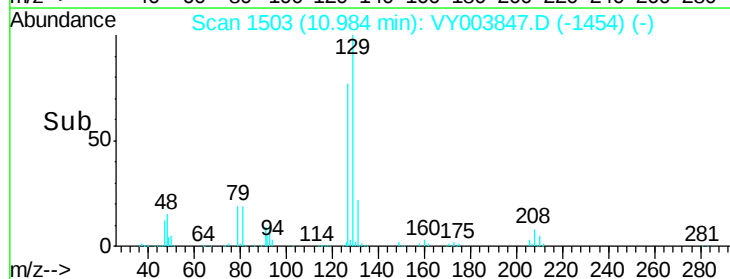
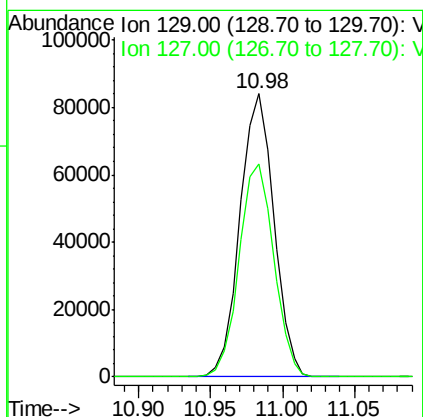
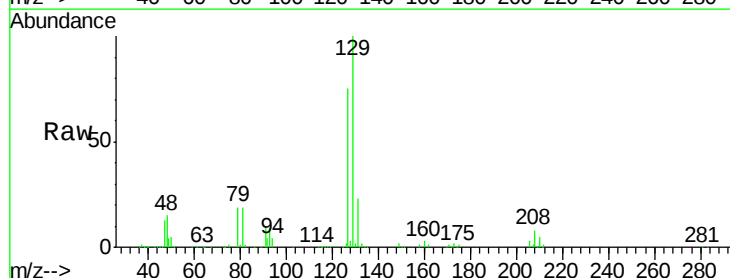
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MSVOA\_Y  
ClientSampleId :  
VSTD02533

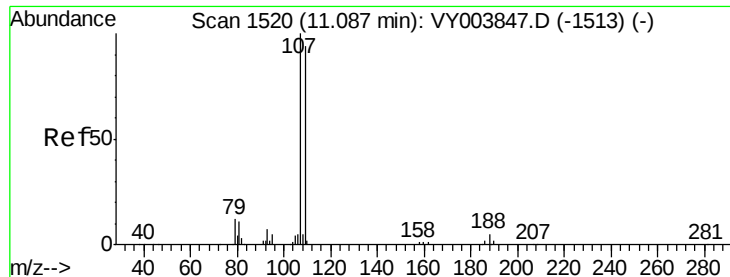
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 195398 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 50.7  | 40.6  | 60.8   |
| 57       | 18.1  | 14.5  | 21.7   |
| 100      | 11.4  | 9.1   | 13.7   |



#49  
Dibromochloromethane  
Concen: 29.179 ug/L  
RT: 10.98 min Scan# 1503  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 137594 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 75.3  | 52.7  | 97.9   |

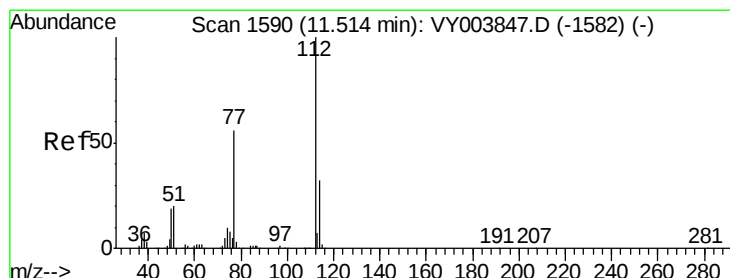
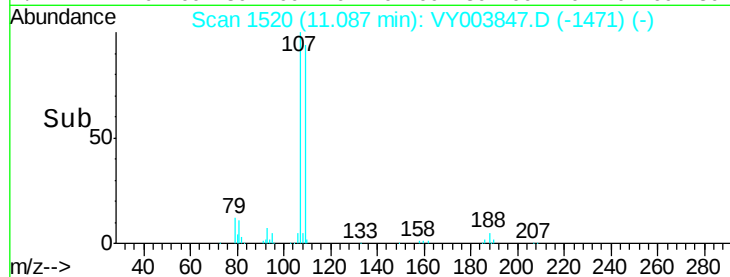
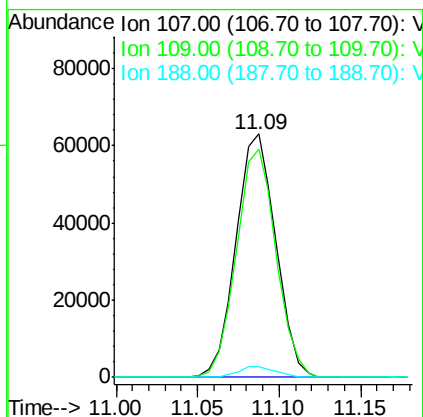
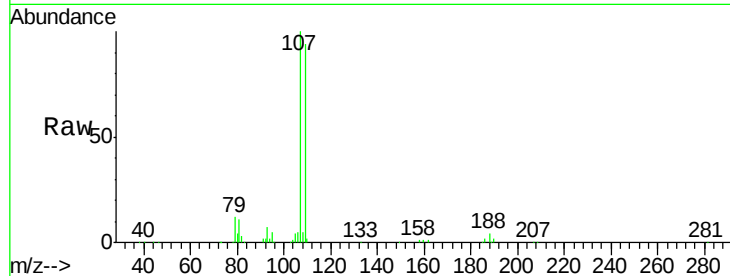




#50  
 1,2-Dibromoethane  
 Concen: 27.524 ug/L  
 RT: 11.09 min Scan# 1520  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

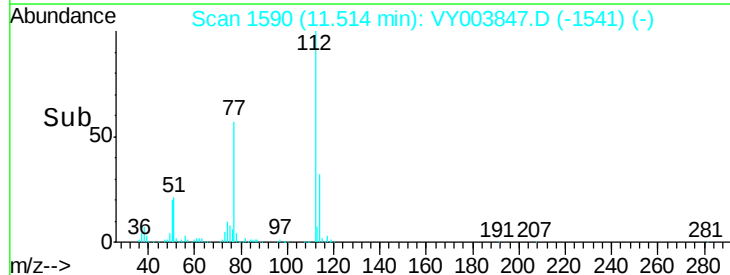
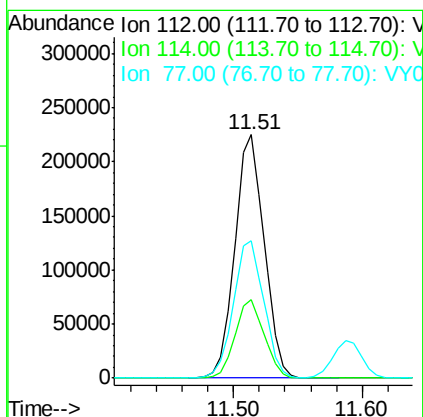
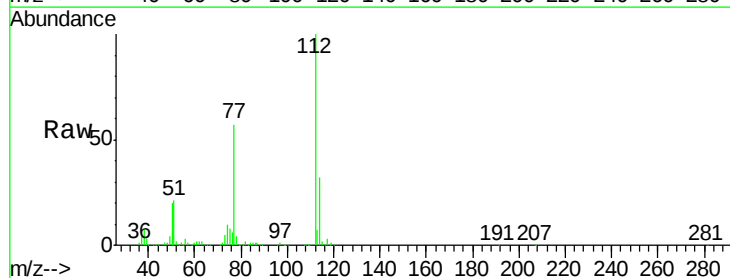
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 ClientSampleId :  
 VSTD02533

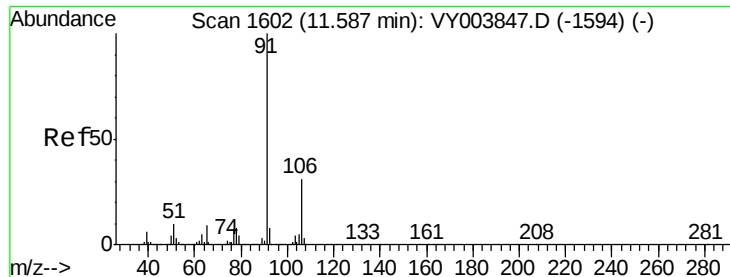
Tgt Ion:107 Resp: 106953  
 Ion Ratio Lower Upper  
 107 100  
 109 93.6 65.5 121.7  
 188 4.5 3.6 5.4



#51  
 Chlorobenzene  
 Concen: 27.288 ug/L  
 RT: 11.51 min Scan# 1590  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

Tgt Ion:112 Resp: 355551  
 Ion Ratio Lower Upper  
 112 100  
 114 32.2 22.5 41.9  
 77 56.5 45.2 67.8





#52

Ethylbenzene

Concen: 28.887 ug/L

RT: 11.59 min Scan# 1602

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

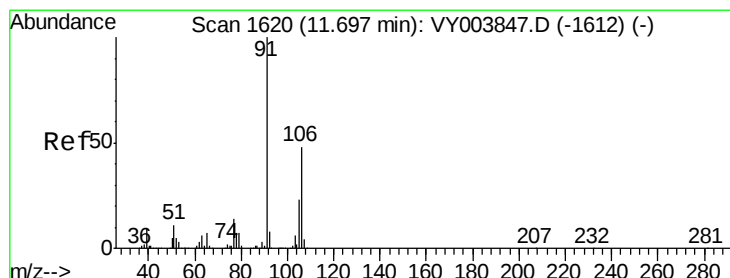
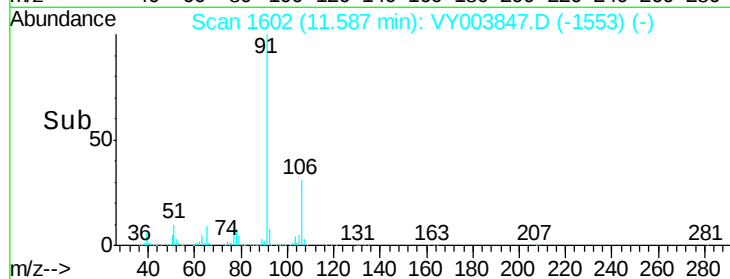
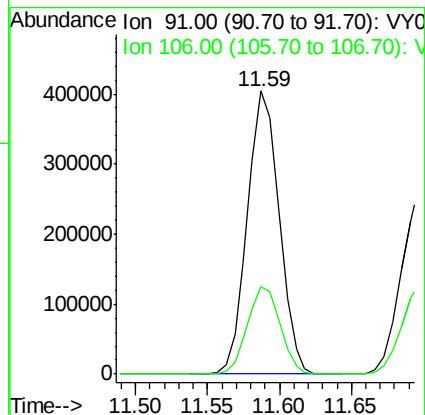
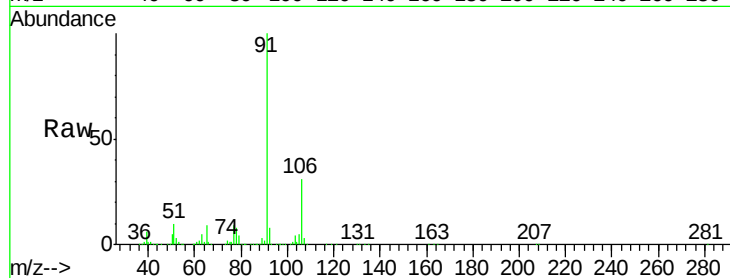
VSTD02533

Tgt Ion: 91 Resp: 619769

Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



#53

m,p-Xylene

Concen: 28.171 ug/L

RT: 11.70 min Scan# 1620

Delta R.T. 0.00 min

Lab File: VY003847.D

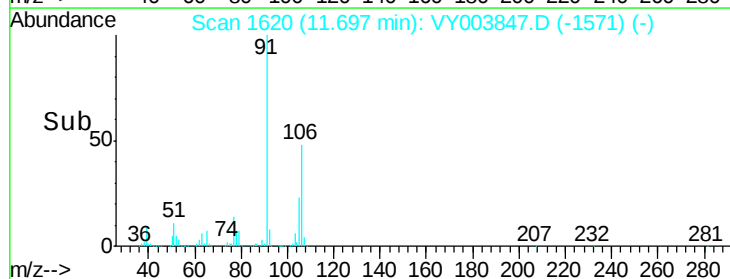
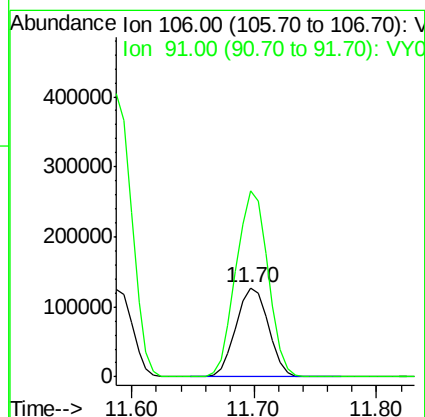
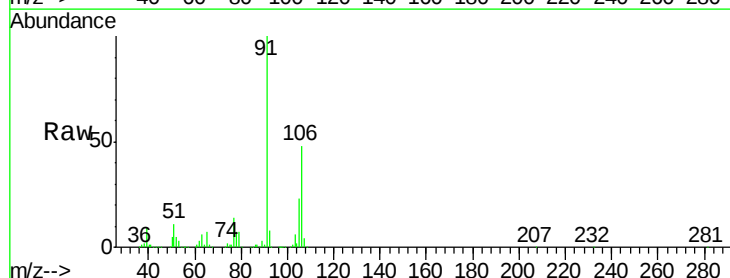
Acq: 29 Dec 2020 11:24

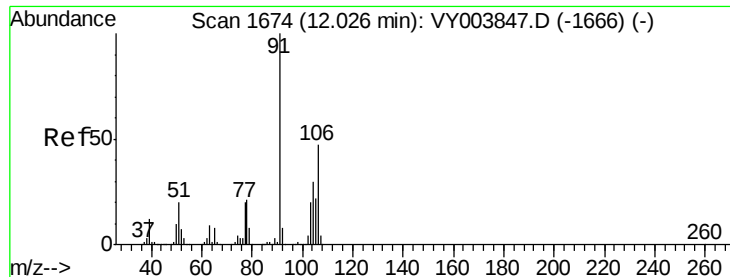
Tgt Ion: 106 Resp: 233911

Ion Ratio Lower Upper

106 100

91 209.0 146.3 271.7

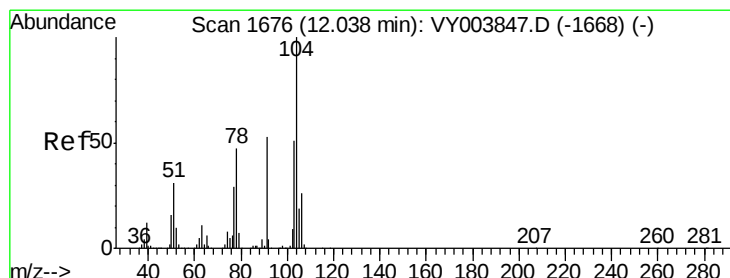
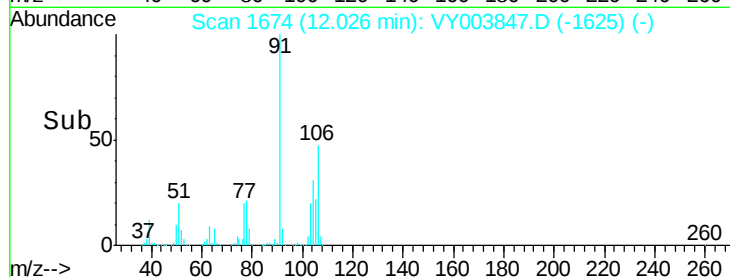
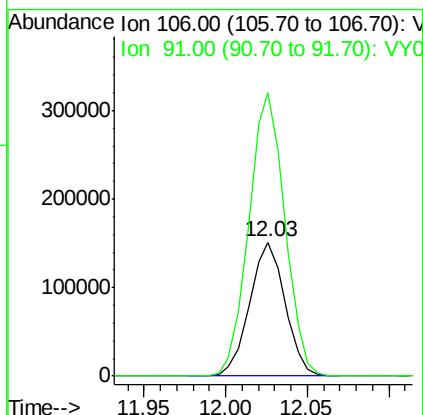
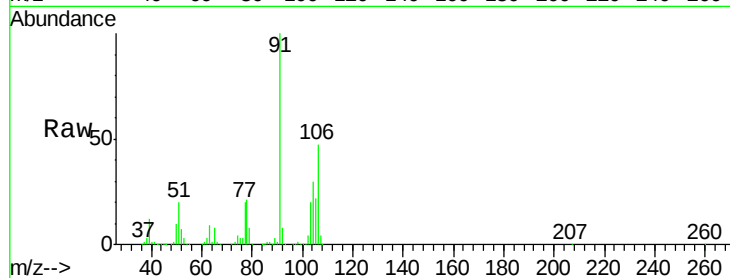




#54  
o-Xylene  
Concen: 28.795 ug/L  
RT: 12.03 min Scan# 1674  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

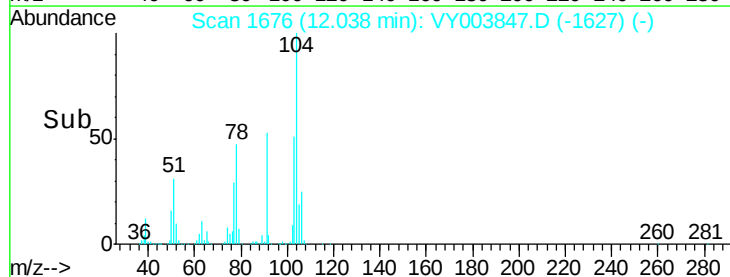
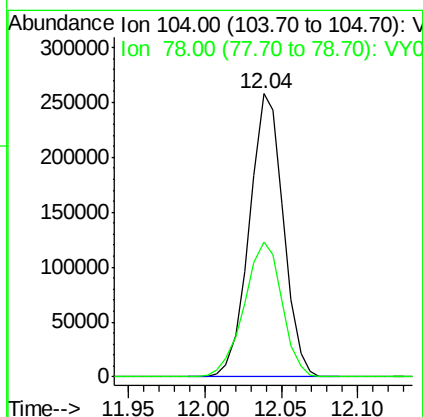
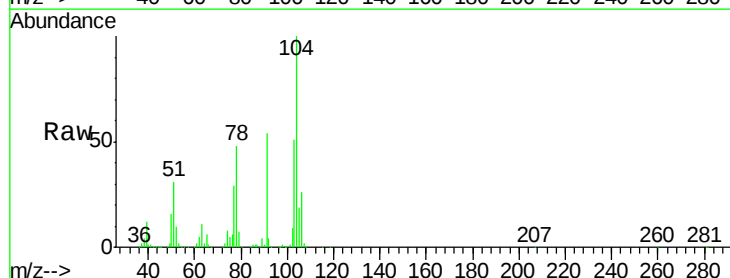
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02533

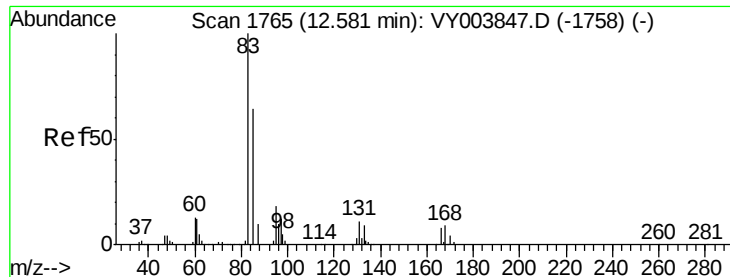
Tgt Ion:106 Resp: 229450  
Ion Ratio Lower Upper  
106 100  
91 211.0 147.7 274.3



#55  
Styrene  
Concen: 29.156 ug/L  
RT: 12.04 min Scan# 1676  
Delta R.T. 0.00 min  
Lab File: VY003847.D  
Acq: 29 Dec 2020 11:24

Tgt Ion:104 Resp: 398356  
Ion Ratio Lower Upper  
104 100  
78 47.5 33.2 61.7





#57

1,1,2,2-Tetrachloroethane

Concen: 28.894 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02533

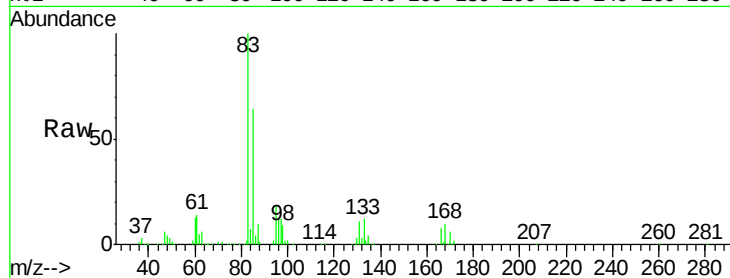
Tgt Ion: 83 Resp: 127386

Ion Ratio Lower Upper

83 100

85 64.1 44.9 83.3

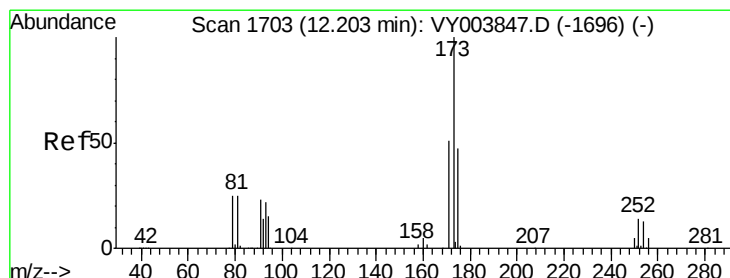
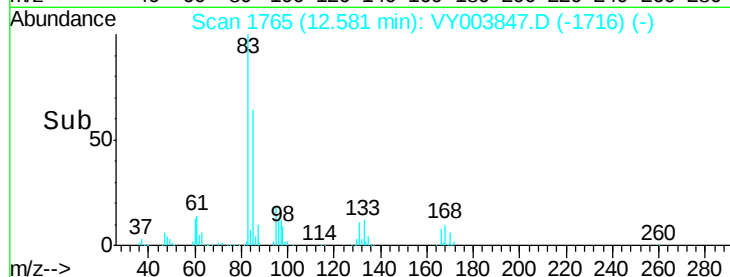
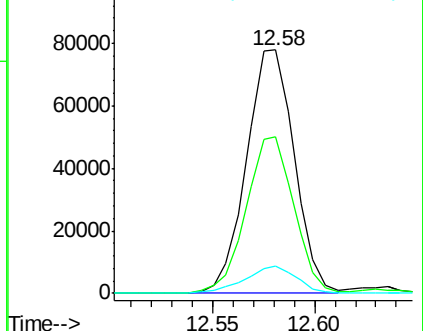
131 11.3 9.0 13.6



Abundance Ion 83.00 (82.70 to 83.70): VY003847.D (-1758) (-)

Ion 85.00 (84.70 to 85.70): VY003847.D (-1758) (-)

Ion 131.00 (130.70 to 131.70): VY003847.D (-1758) (-)



#59

Bromoform

Concen: 28.185 ug/L

RT: 12.20 min Scan# 1703

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

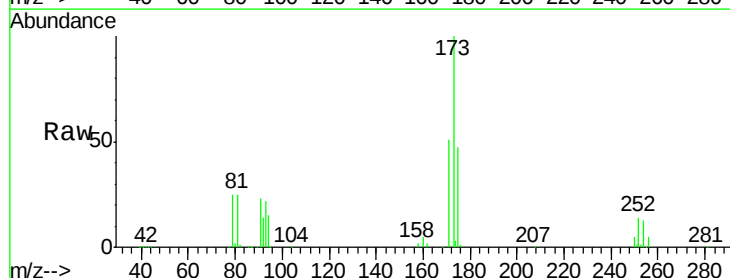
Tgt Ion: 173 Resp: 99677

Ion Ratio Lower Upper

173 100

175 48.6 38.9 58.3

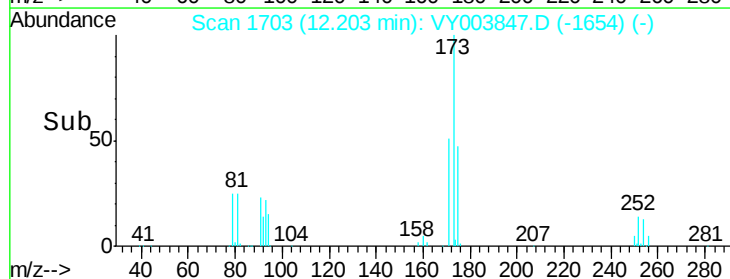
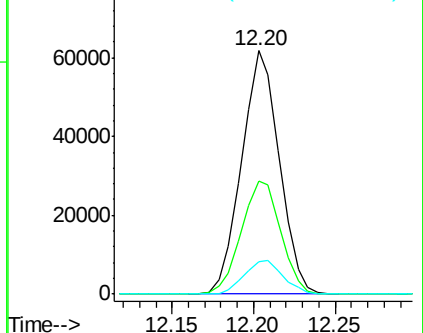
254 14.4 11.5 17.3

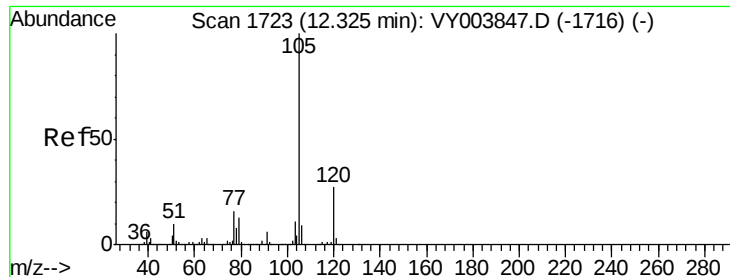


Abundance Ion 173.00 (172.70 to 173.70): VY003847.D (-1696) (-)

Ion 175.00 (174.70 to 175.70): VY003847.D (-1696) (-)

Ion 254.00 (253.70 to 254.70): VY003847.D (-1696) (-)





#60

Isopropylbenzene

Concen: 27.380 ug/L

RT: 12.32 min Scan# 1723

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampled :

VSTD02533

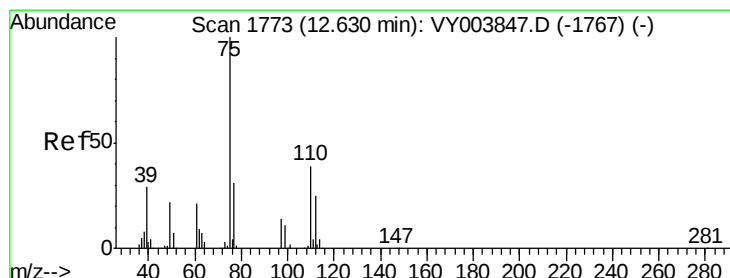
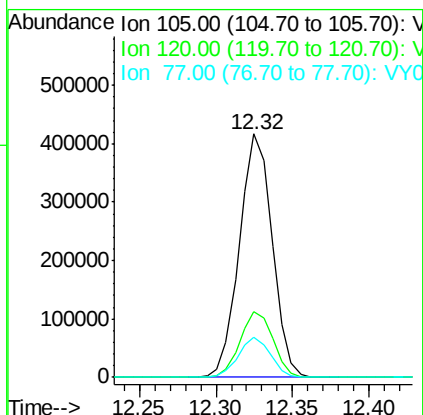
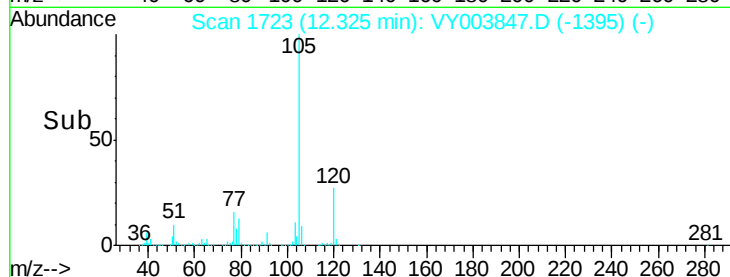
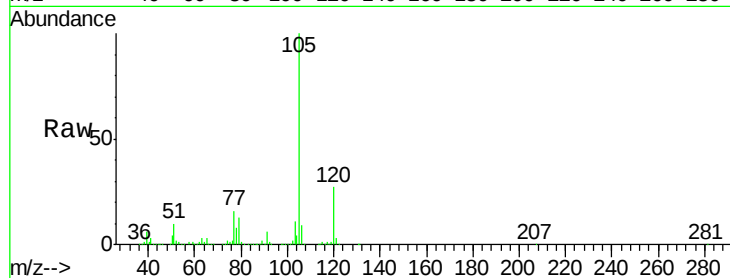
Tgt Ion: 105 Resp: 621849

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

77 16.1 12.9 19.3



#61

1,2,3-Trichloropropane

Concen: 27.055 ug/L

RT: 12.63 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

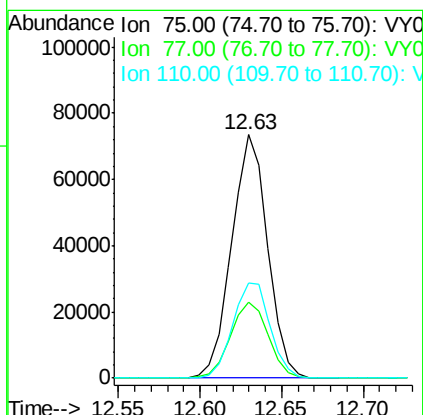
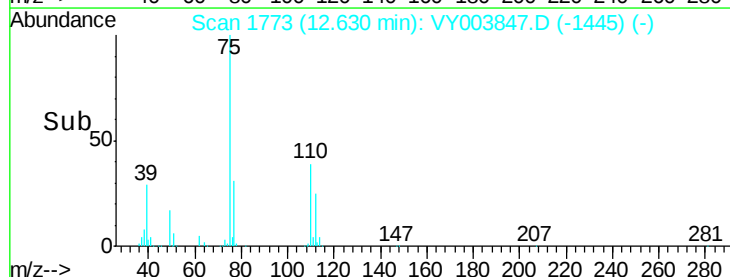
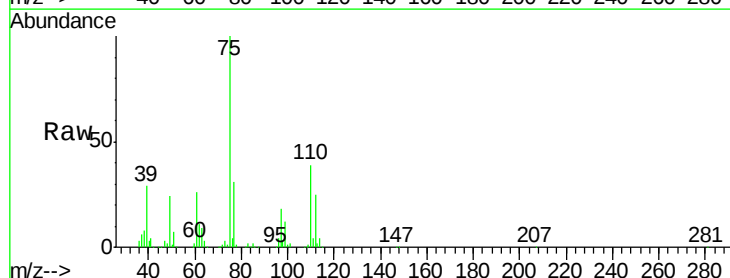
Tgt Ion: 75 Resp: 112734

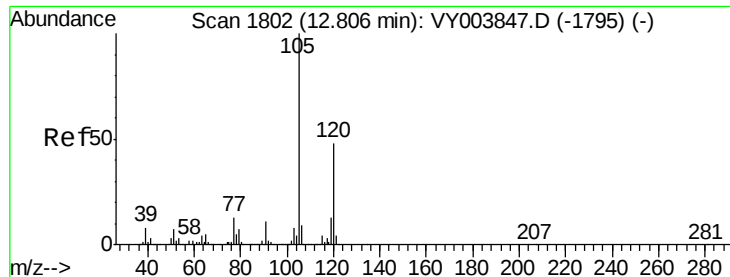
Ion Ratio Lower Upper

75 100

77 32.8 26.2 39.4

110 40.5 32.4 48.6





#62

1,3,5-Trimethylbenzene

Concen: 28.817 ug/L

RT: 12.81 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

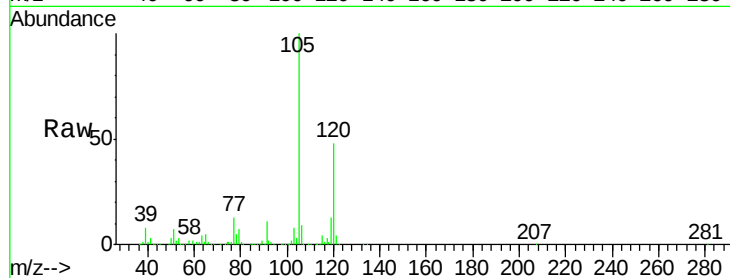
VSTD02533

Tgt Ion:105 Resp: 521934

Ion Ratio Lower Upper

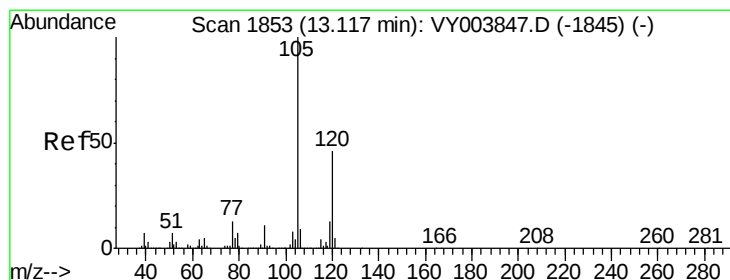
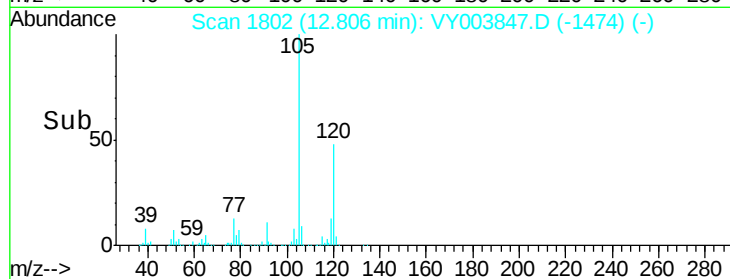
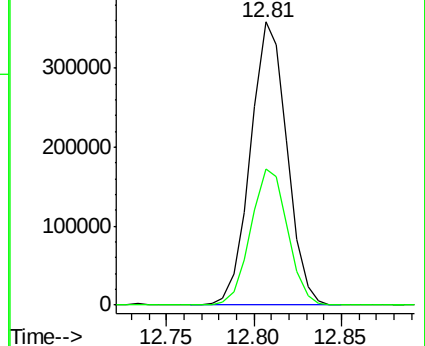
105 100

120 48.7 39.0 58.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 29.222 ug/L

RT: 13.12 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VY003847.D

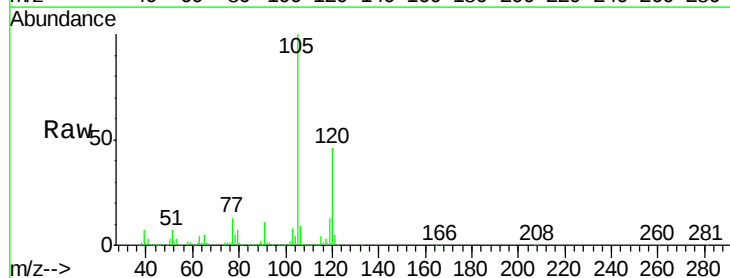
Acq: 29 Dec 2020 11:24

Tgt Ion:105 Resp: 528225

Ion Ratio Lower Upper

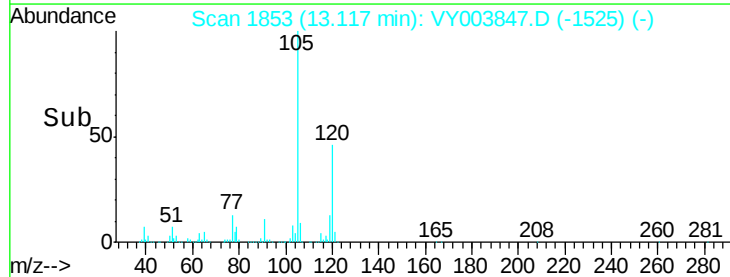
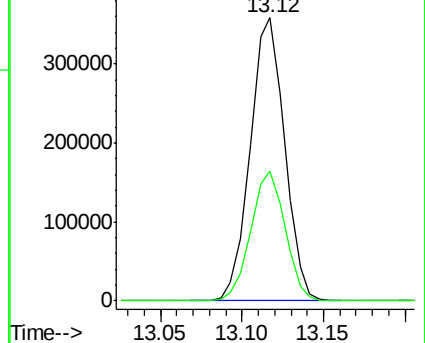
105 100

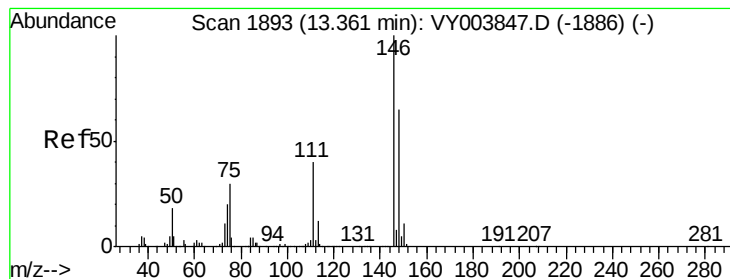
120 45.6 36.5 54.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 26.981 ug/L

RT: 13.36 min Scan# 1893

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02533

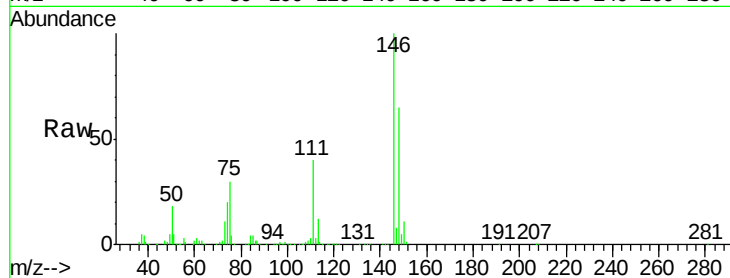
Tgt Ion:146 Resp: 295582

Ion Ratio Lower Upper

146 100

111 39.6 27.7 51.5

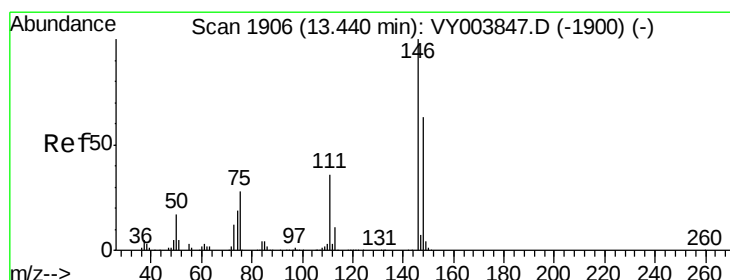
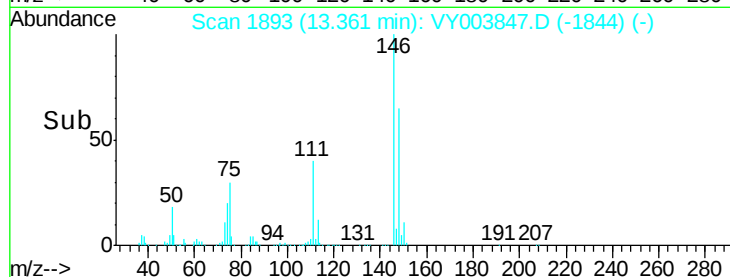
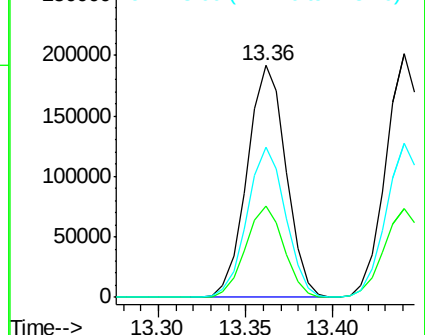
148 64.9 45.4 84.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 26.962 ug/L

RT: 13.44 min Scan# 1906

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

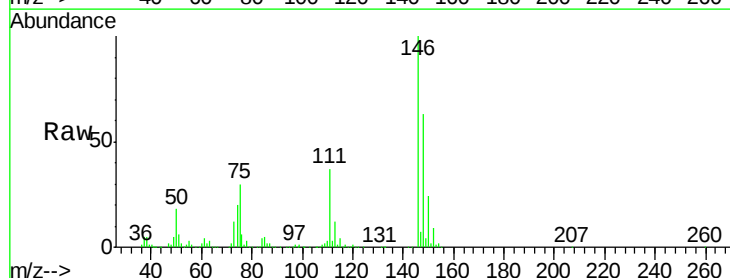
Tgt Ion:146 Resp: 300192

Ion Ratio Lower Upper

146 100

111 36.7 25.7 47.7

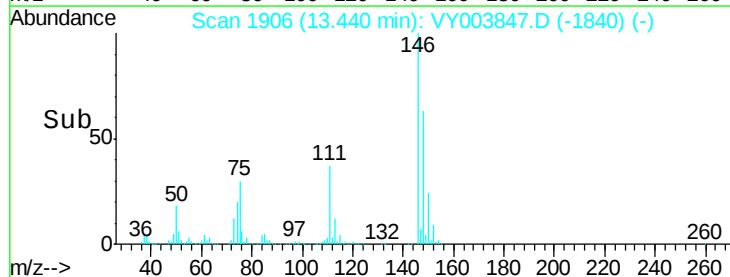
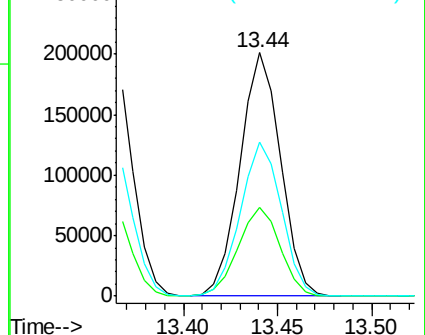
148 63.4 44.4 82.4

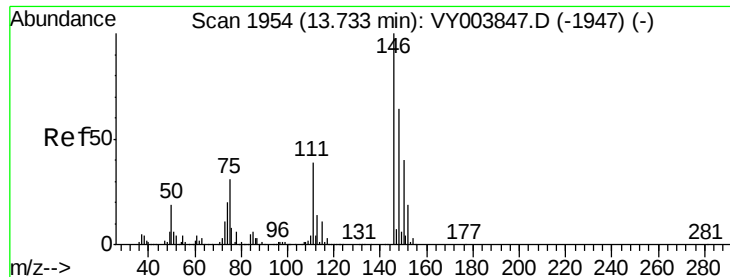


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

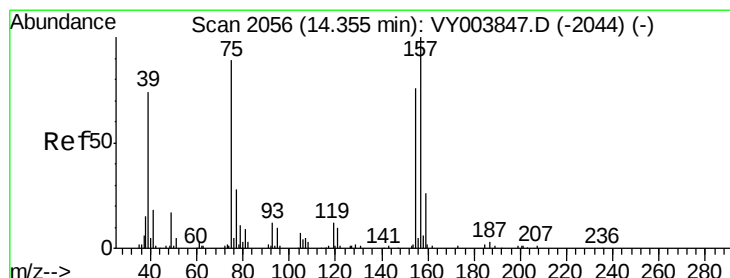
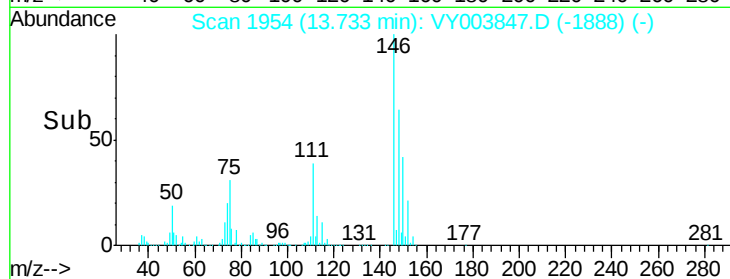
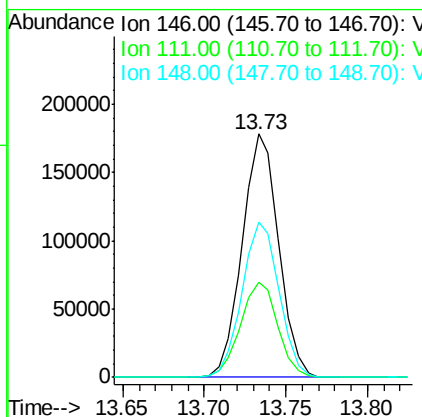
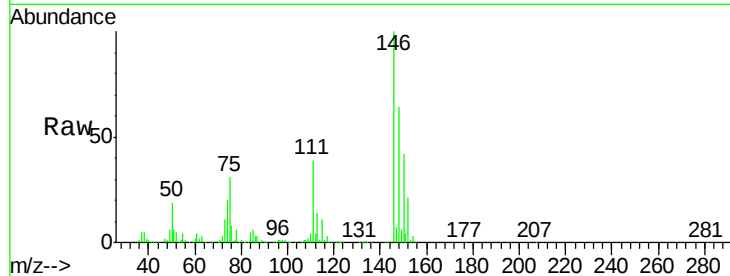




#67  
 1,2-Dichlorobenzene  
 Concen: 27.171 ug/L  
 RT: 13.73 min Scan# 1954  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

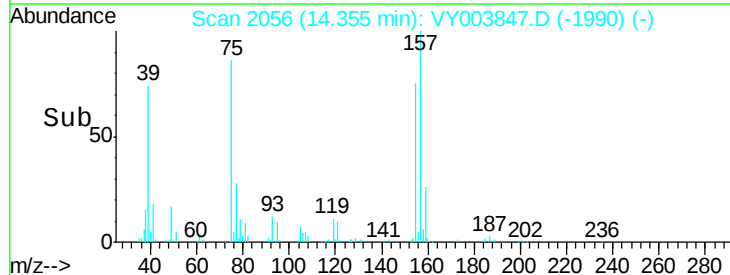
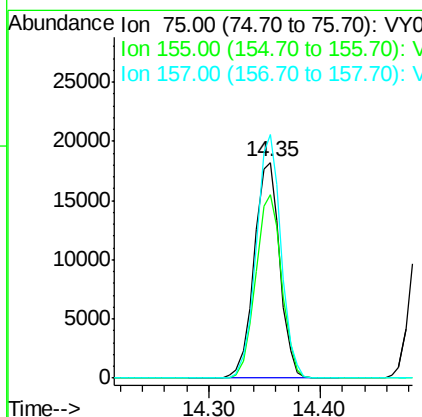
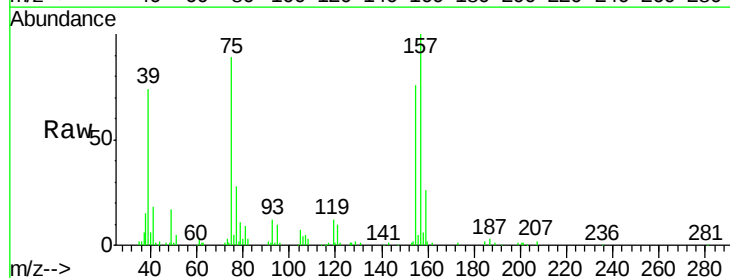
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02533

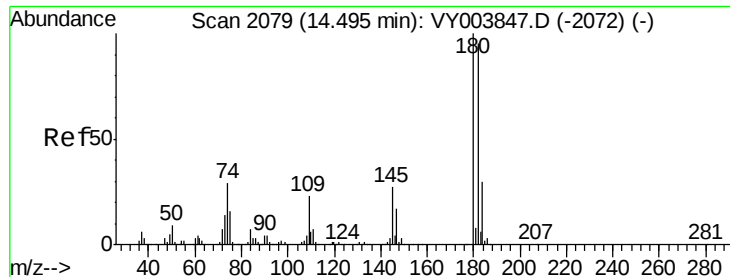
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.1  | 31.3  | 46.9  |
| 148     | 63.7  | 51.0  | 76.4  |



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 31.017 ug/L  
 RT: 14.35 min Scan# 2056  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 85.3  | 68.2  | 102.4 |
| 157     | 112.8 | 90.2  | 135.4 |

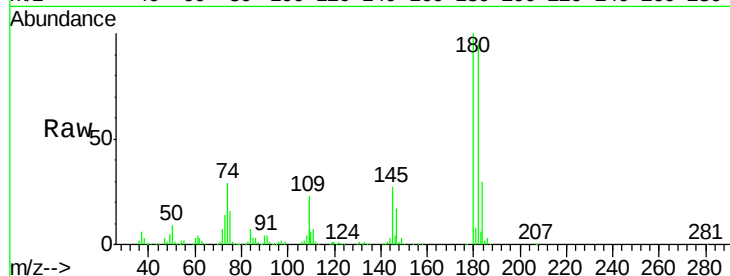




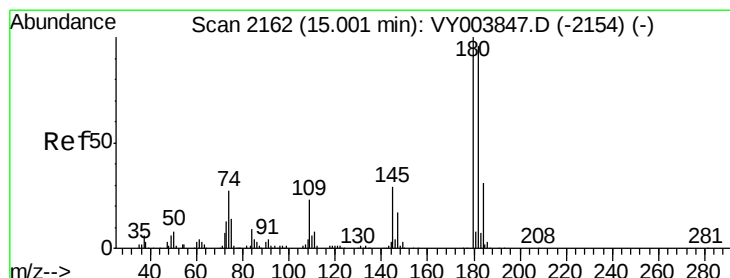
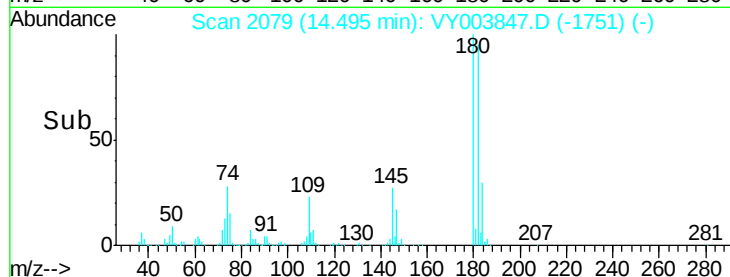
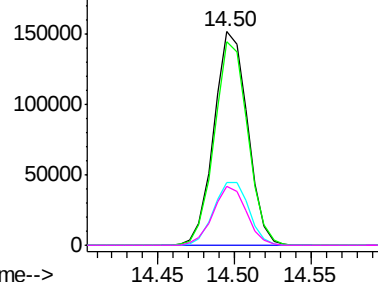
#69  
 1,3,5-Trichlorobenzene  
 Concen: 29.216 ug/L  
 RT: 14.50 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02533

Tgt Ion:180 Resp: 231174  
 Ion Ratio Lower Upper  
 180 100  
 182 94.5 75.6 113.4  
 184 31.1 24.9 37.3  
 145 27.2 21.8 32.6

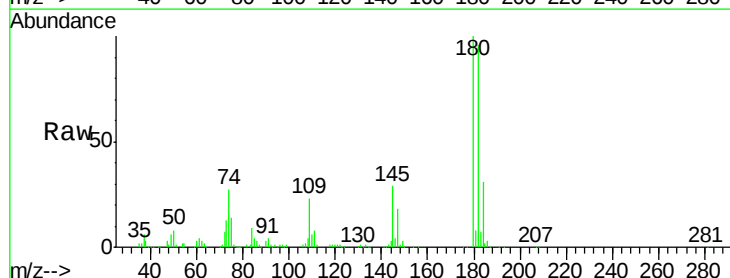


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

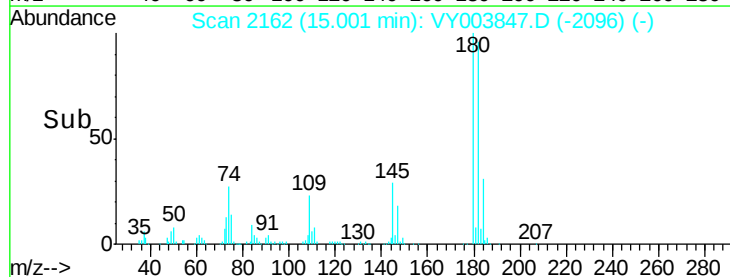
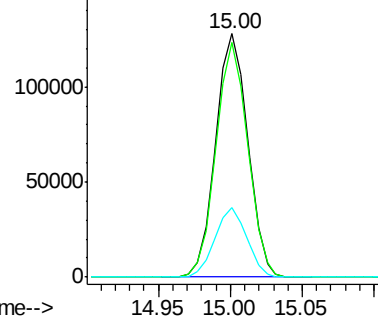


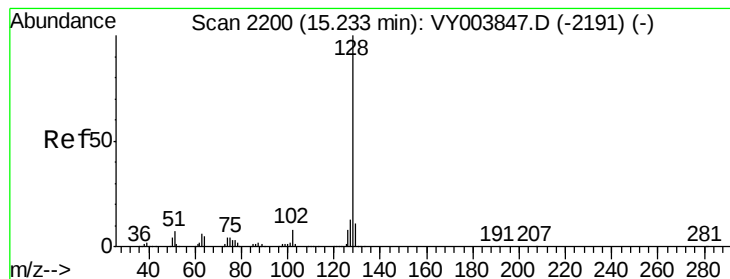
#70  
 1,2,4-trichlorobenzene  
 Concen: 29.291 ug/L  
 RT: 15.00 min Scan# 2162  
 Delta R.T. 0.00 min  
 Lab File: VY003847.D  
 Acq: 29 Dec 2020 11:24

Tgt Ion:180 Resp: 197839  
 Ion Ratio Lower Upper  
 180 100  
 182 95.1 76.1 114.1  
 145 28.2 22.6 33.8



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





#71

Naphthalene

Concen: 29.216 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02533

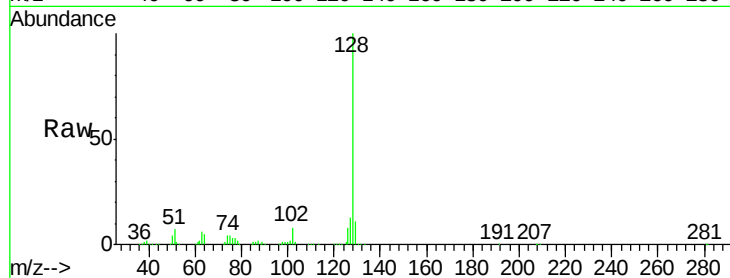
Tgt Ion:128 Resp: 414833

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

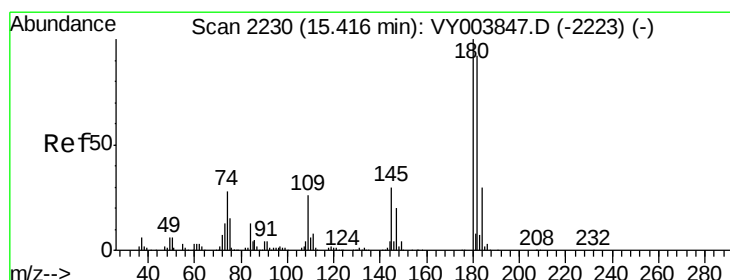
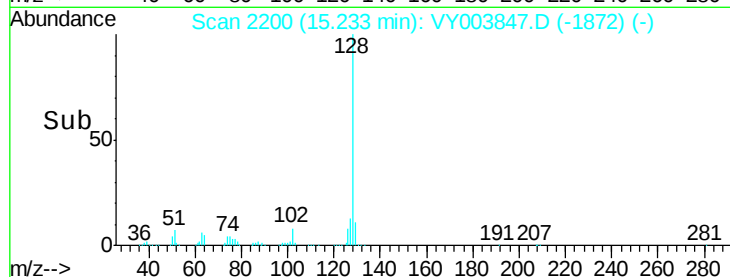
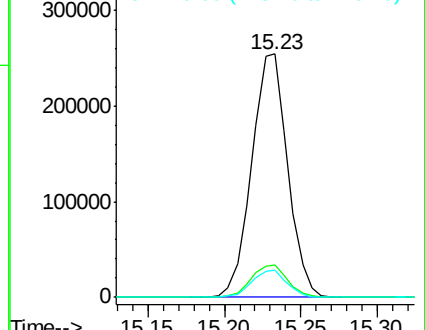
129 11.1 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 28.765 ug/L

RT: 15.42 min Scan# 2230

Delta R.T. 0.00 min

Lab File: VY003847.D

Acq: 29 Dec 2020 11:24

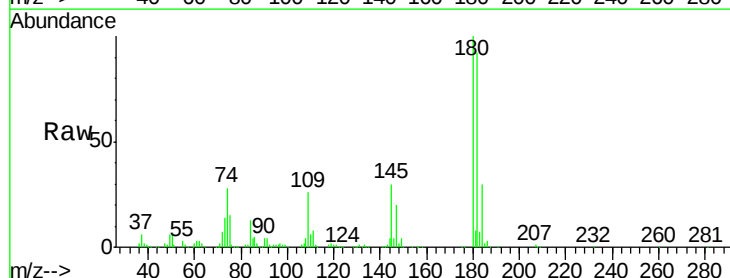
Tgt Ion:180 Resp: 177209

Ion Ratio Lower Upper

180 100

182 93.2 74.6 111.8

145 29.1 23.3 34.9



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

