

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\  
 Data File : VN064503.D  
 Acq On : 9 Nov 2020 11:15  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 09 12:23:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 09 12:16:00 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.15  | 128  | 72746    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.55  | 114  | 381194   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.38 | 117  | 349104   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 7.98   | 65    | 197206   | 32.82    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 110 | Recovery | =    | 109.40% |
| 60) 4-Bromofluorobenzene  | 12.38  | 95    | 166694   | 28.07    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 63 - 112 | Recovery | =    | 93.57%  |
| 63) Toluene-d8            | 10.06  | 98    | 497442   | 31.45    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 112 | Recovery | =    | 104.83% |

## Target Compounds

|                               |      |     |       |               | Ovalue |
|-------------------------------|------|-----|-------|---------------|--------|
| 2) Dichlorodifluoromethane    | 1.84 | 85  | 23088 | 4.932 ug/l    | 94     |
| 3) Chloromethane              | 2.04 | 50  | 27801 | 5.614 ug/l    | 99     |
| 4) Vinyl Chloride             | 2.16 | 62  | 30477 | 5.922 ug/l    | 99     |
| 5) Bromomethane               | 2.53 | 94  | 21785 | 6.455 ug/l    | 89     |
| 6) Chloroethane               | 2.68 | 64  | 18748 | 6.132 ug/l    | 95     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 45753 | 5.526 ug/l    | 97     |
| 8) Diethyl Ether              | 3.37 | 74  | 16164 | 6.105 ug/l    | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 21156 | 5.146 ug/l    | 53     |
| 10) 1,1-Dichloroethene        | 3.69 | 96  | 20082 | 5.123 ug/l    | 95     |
| 11) Methyl Iodide             | 3.90 | 142 | 20413 | 3.943 ug/l    | 97     |
| 12) Methyl Acetate            | 4.28 | 43  | 22028 | 5.221 ug/l #  | 90     |
| 13) Acrolein                  | 3.56 | 56  | 11866 | 29.703 ug/l   | 97     |
| 14) Acrylonitrile             | 4.93 | 53  | 22015 | 11.728 ug/l # | 1      |
| 15) Acetone                   | 3.78 | 58  | 17141 | 26.470 ug/l   | 98     |
| 16) Carbon Disulfide          | 4.00 | 76  | 61452 | 5.447 ug/l    | 100    |
| 17) Allyl chloride            | 4.27 | 41  | 33216 | 4.771 ug/l    | 100    |
| 18) Methylene Chloride        | 4.50 | 84  | 23958 | 5.261 ug/l    | 95     |
| 19) trans-1,2-Dichloroethene  | 4.98 | 96  | 22309 | 5.160 ug/l    | 91     |
| 20) Diisopropyl ether         | 5.90 | 45  | 71578 | 4.838 ug/l    | 92     |
| 21) 1,1-Dichloroethane        | 5.79 | 63  | 44422 | 5.320 ug/l    | 96     |
| 22) cis-1,2-Dichloroethene    | 6.78 | 96  | 24205 | 4.799 ug/l    | 97     |
| 23) tert-Butyl Alcohol        | 4.75 | 59  | 16271 | 23.164 ug/l # | 100    |
| 24) Methyl tert-Butyl Ether   | 4.99 | 73  | 62641 | 4.509 ug/l #  | 67     |
| 25) Chloroform                | 7.33 | 83  | 45228 | 5.052 ug/l    | 97     |
| 26) Cyclohexane               | 7.61 | 56  | 29346 | 4.451 ug/l #  | 98     |
| 29) 1,1-Dichloropropene       | 7.75 | 75  | 31076 | 4.986 ug/l    | 98     |
| 30) 2-Butanone                | 6.79 | 43  | 76060 | 26.676 ug/l # | 83     |
| 31) 2,2-Dichloropropane       | 6.77 | 77  | 38422 | 5.066 ug/l #  | 58     |
| 32) 1,1,1-Trichloroethane     | 7.52 | 97  | 39682 | 4.949 ug/l    | 98     |
| 33) Carbon Tetrachloride      | 7.74 | 117 | 36140 | 5.009 ug/l    | 97     |
| 34) Benzene                   | 8.00 | 78  | 93085 | 5.286 ug/l #  | 64     |
| 35) Methacrylonitrile         | 7.13 | 41  | 12642 | 4.551 ug/l    | 93     |
| 36) 1,2-Dichloroethane        | 8.08 | 62  | 41139 | 5.663 ug/l    | 97     |
| 37) Trichloroethene           | 8.80 | 130 | 24702 | 5.086 ug/l    | 99     |
| 38) Methylcyclohexane         | 9.05 | 83  | 26911 | 4.803 ug/l    | 95     |
| 39) 1,2-Dichloropropane       | 9.08 | 63  | 24755 | 5.408 ug/l    | 95     |
| 40) Dibromomethane            | 9.17 | 93  | 16695 | 5.112 ug/l    | 95     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\  
 Data File : VN064503.D  
 Acq On : 9 Nov 2020 11:15  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 09 12:23:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 09 12:16:00 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 41) Bromodichloromethane       | 9.37  | 83   | 36816    | 5.317  | ug/l # | 99       |
| 42) Vinyl Acetate              | 5.85  | 43   | 291730   | 24.446 | ug/l   | 99       |
| 43) Ethyl Acetate              | 6.88  | 43   | 30483    | 5.505  | ug/l   | 98       |
| 44) Isopropyl Acetate          | 8.13  | 43   | 51432    | 5.311  | ug/l   | 99       |
| 45) 1,4-Dioxane                | 9.16  | 88   | 3103     | 44.852 | ug/l # | 1        |
| 46) Methyl methacrylate        | 9.16  | 41   | 24734    | 5.169  | ug/l   | 90       |
| 47) n-amyl Acetate             | 12.05 | 43   | 34893    | 4.226  | ug/l   | 95       |
| 48) t-1,3-Dichloropropene      | 10.35 | 75   | 35035    | 4.612  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene    | 9.81  | 75   | 38720    | 4.930  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane      | 10.53 | 97   | 23656    | 5.405  | ug/l   | 92       |
| 51) Ethyl methacrylate         | 10.40 | 69   | 26429    | 4.212  | ug/l   | 95       |
| 52) 1,3-Dichloropropane        | 10.68 | 76   | 39392    | 5.344  | ug/l   | 98       |
| 53) Dibromochloromethane       | 10.87 | 129  | 25157    | 4.709  | ug/l   | 96       |
| 54) 1,2-Dibromoethane          | 10.97 | 107  | 22281    | 4.806  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.66  | 63   | 71811    | 21.011 | ug/l   | 98       |
| 56) Bromoform                  | 12.10 | 173  | 15418    | 4.113  | ug/l   | 97       |
| 58) 4-Methyl-2-Pentanone       | 9.95  | 43   | 147887   | 26.139 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.72 | 43   | 105569   | 25.144 | ug/l   | 100      |
| 61) Tetrachloroethene          | 10.60 | 164  | 23004    | 4.944  | ug/l   | 94       |
| 62) Toluene                    | 10.12 | 91   | 101349   | 5.149  | ug/l   | 99       |
| 64) Chlorobenzene              | 11.40 | 112  | 58519    | 4.800  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 22920    | 4.849  | ug/l   | 98       |
| 66) Ethyl Benzene              | 11.48 | 91   | 100524   | 4.678  | ug/l   | 96       |
| 67) m/p-Xylenes                | 11.59 | 106  | 70545    | 8.722  | ug/l   | 99       |
| 68) o-Xylene                   | 11.92 | 106  | 32941    | 4.247  | ug/l   | 97       |
| 69) Styrene                    | 11.94 | 104  | 51991    | 3.993  | ug/l   | 100      |
| 70) Isopropylbenzene           | 12.22 | 105  | 84603    | 4.208  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 30394    | 5.295  | ug/l   | 95       |
| 72) 1,2,3-Trichloropropane     | 12.53 | 75   | 41682    | 7.047  | ug/l   | 59       |
| 73) Bromobenzene               | 12.50 | 156  | 23438    | 4.551  | ug/l   | 96       |
| 74) n-propylbenzene            | 12.56 | 91   | 102303   | 4.581  | ug/l   | 99       |
| 75) 2-Chlorotoluene            | 12.65 | 91   | 66906    | 4.737  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 70190    | 4.200  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene    | 12.27 | 75   | 9526     | 4.528  | ug/l   | 96       |
| 78) 4-Chlorotoluene            | 12.75 | 91   | 67728    | 4.617  | ug/l   | 99       |
| 79) tert-butylbenzene          | 12.97 | 119  | 55680    | 4.238  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 68065    | 4.044  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.14 | 105  | 73940    | 4.376  | ug/l   | 98       |
| 82) p-Isopropyltoluene         | 13.26 | 119  | 61560    | 3.987  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene        | 13.26 | 146  | 37749    | 4.263  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene        | 13.34 | 146  | 37394    | 4.215  | ug/l   | 98       |
| 85) n-Butylbenzene             | 13.59 | 91   | 54641    | 4.414  | ug/l   | 97       |
| 86) Hexachloroethane           | 13.85 | 117  | 14642    | 4.968  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene        | 13.63 | 146  | 36695    | 4.314  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 6241     | 5.039  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene     | 14.88 | 180  | 13840    | 3.381  | ug/l   | 96       |
| 90) Hexachlorobutadiene        | 14.98 | 225  | 10458    | 4.802  | ug/l   | 96       |
| 91) Naphthalene                | 15.10 | 128  | 41817    | 3.372  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 15067    | 3.659  | ug/l   | 95       |
| -----                          |       |      |          |        |        |          |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\  
Data File : VN064503.D  
Acq On : 9 Nov 2020 11:15  
Operator : JC/MD  
Sample : VSTDICC005  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Nov 09 12:23:06 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Nov 09 12:16:00 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

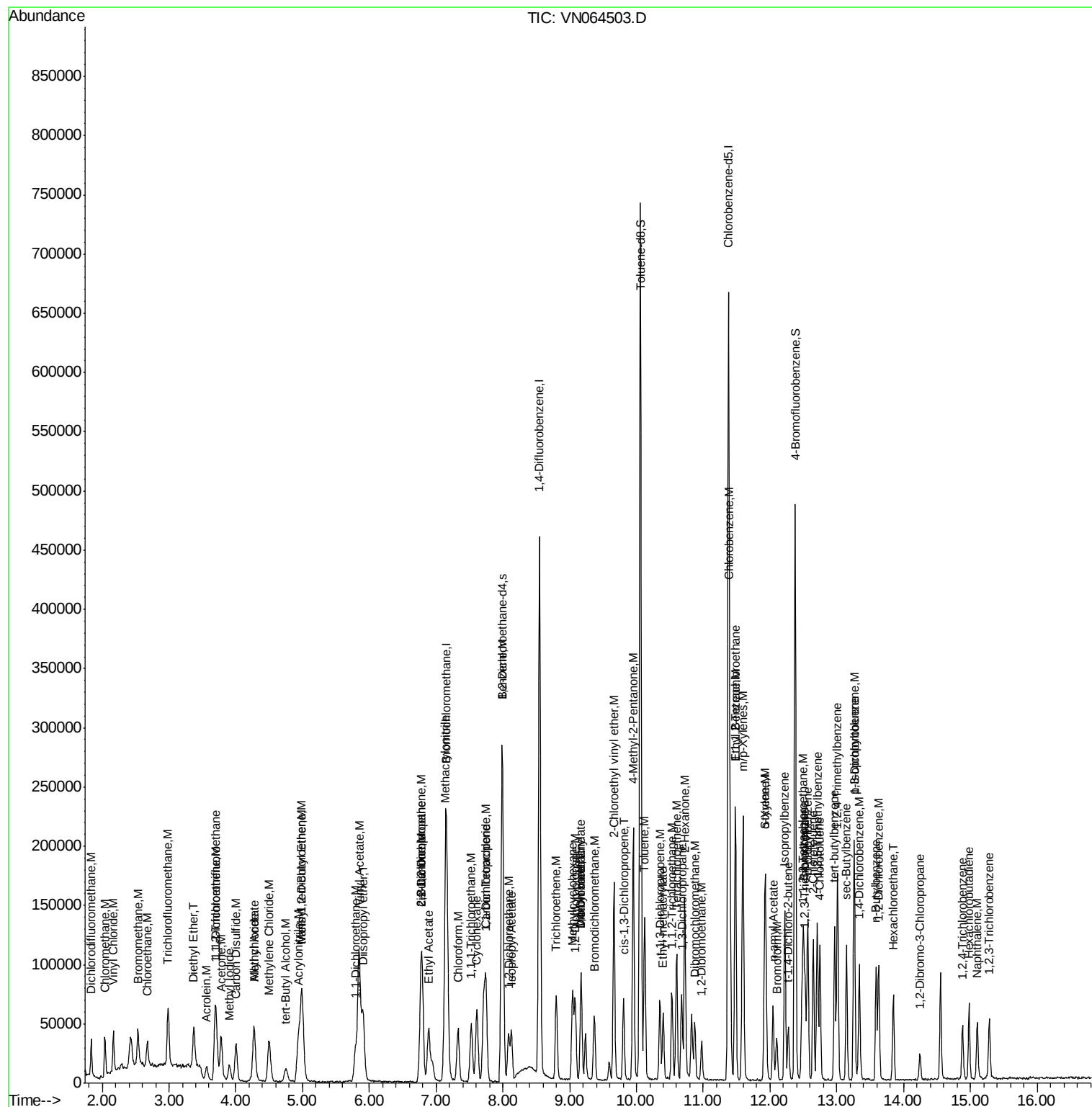
-----

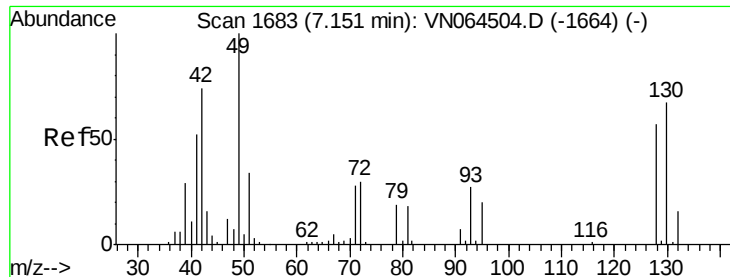
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\  
Data File : VN064503.D  
Acq On : 9 Nov 2020 11:15  
Operator : JC/MD  
Sample : VSTDIC005  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Nov 09 12:23:06 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Nov 09 12:16:00 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

ClientSampled :

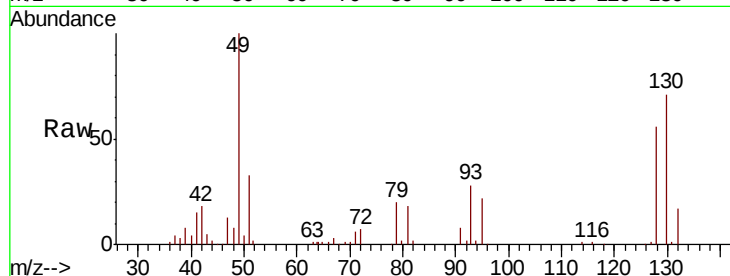
Tot Ion:128 Resp: 72746

Ion Ratio Lower Upper

128 100

49 180.3 0.0 475.5

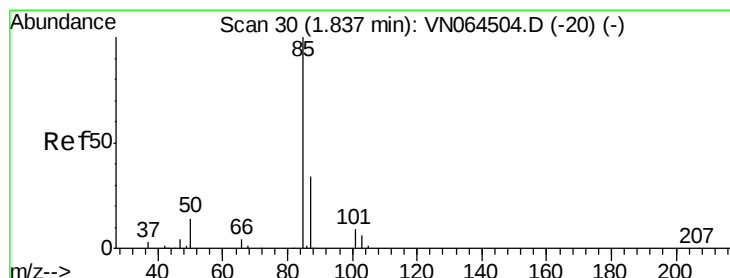
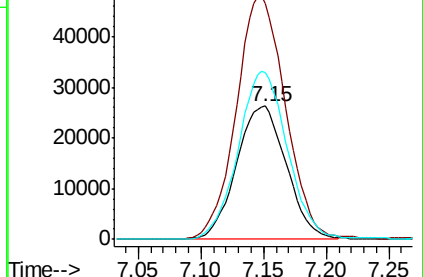
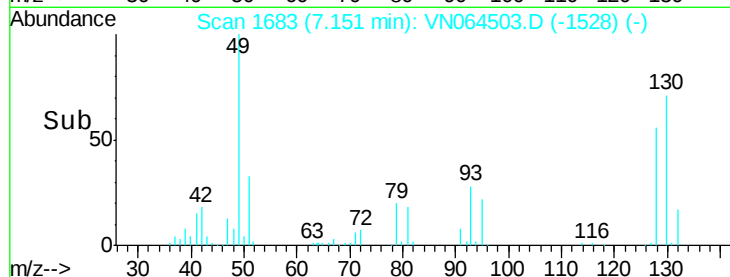
130 124.3 0.0 315.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 4.932 ug/l

RT: 1.84 min Scan# 30

Delta R.T. -0.00 min

Lab File: VN064503.D

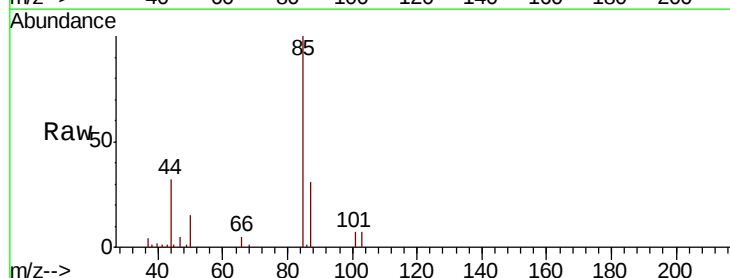
Acq: 9 Nov 2020 11:15

Tgt Ion: 85 Resp: 23088

Ion Ratio Lower Upper

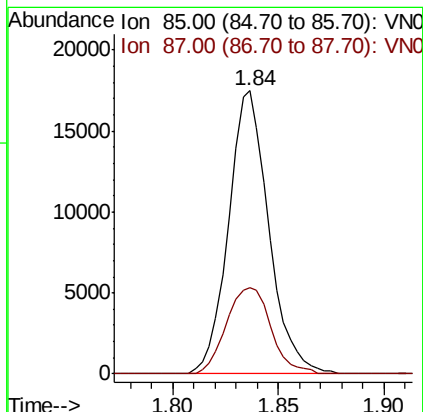
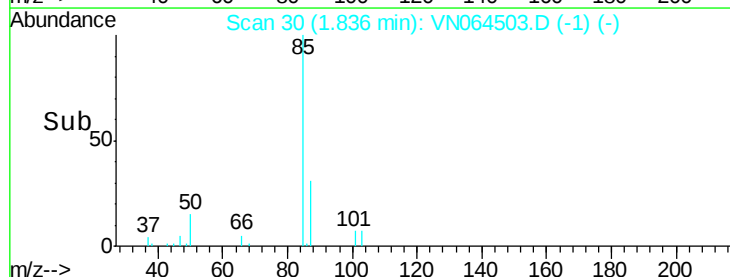
85 100

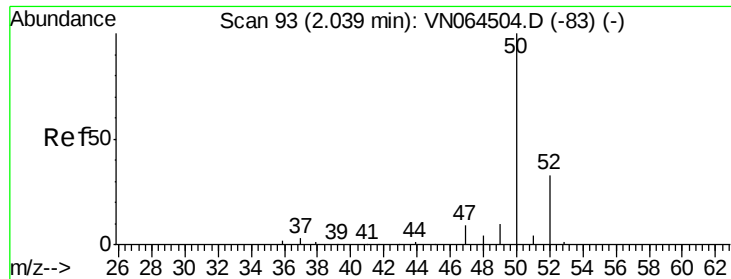
87 30.5 17.0 50.9



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN

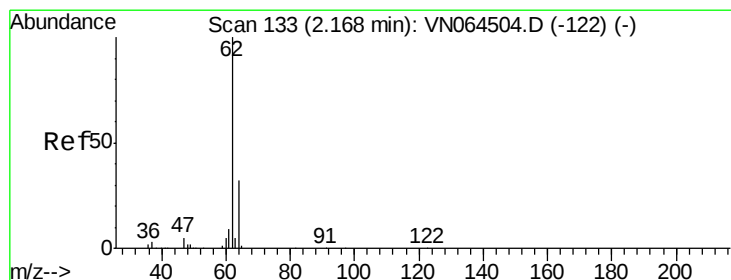
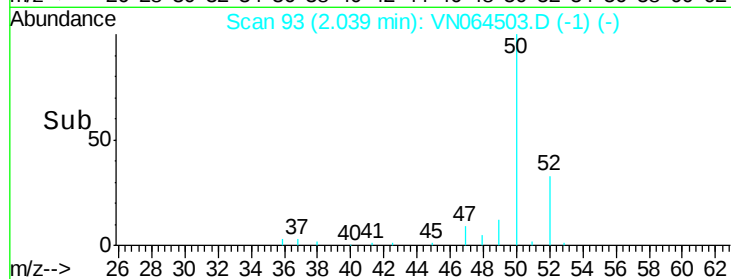
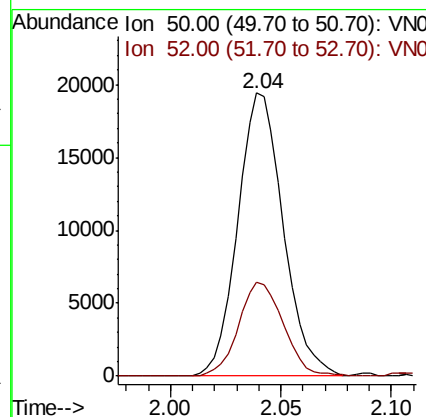
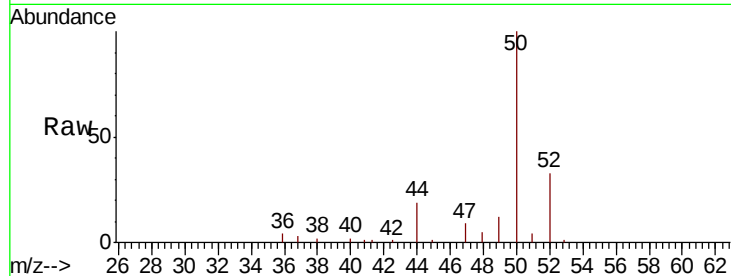




#3  
Chloromethane  
Concen: 5.614 ug/l  
RT: 2.04 min Scan# 93  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

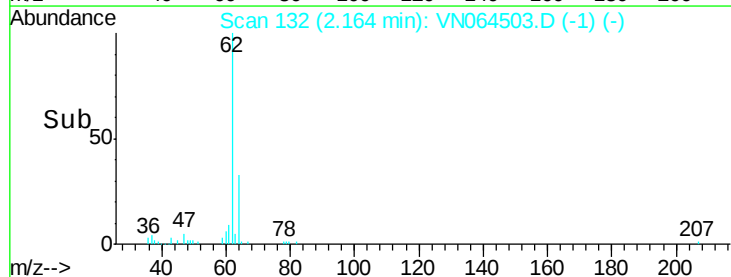
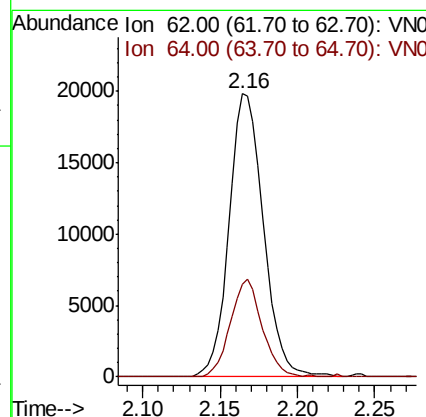
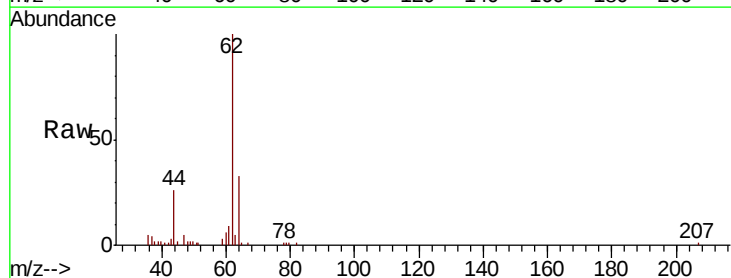
Instrument :  
MSVOA\_N  
ClientSampled :

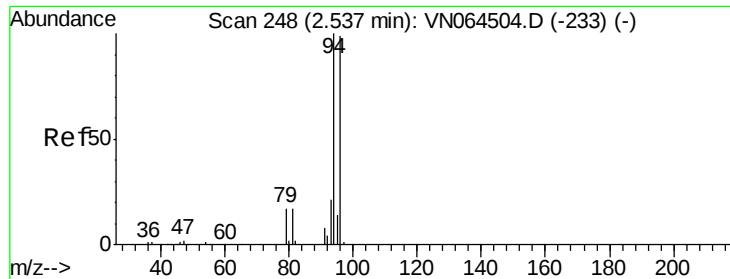
Tot Ion: 50 Resp: 27801  
Ion Ratio Lower Upper  
50 100  
52 33.2 26.0 39.0



#4  
Vinyl Chloride  
Concen: 5.922 ug/l  
RT: 2.16 min Scan# 133  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 62 Resp: 30477  
Ion Ratio Lower Upper  
62 100  
64 32.8 25.8 38.8





#5

Bromomethane

Concen: 6.455 ug/l

RT: 2.53 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

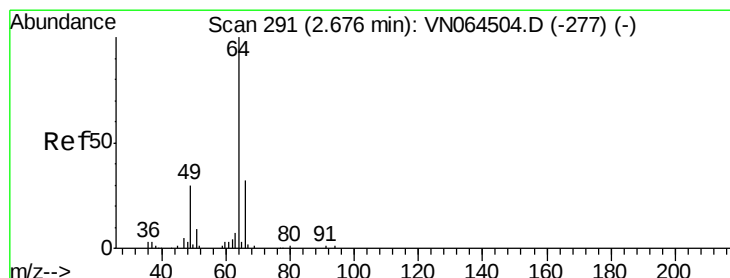
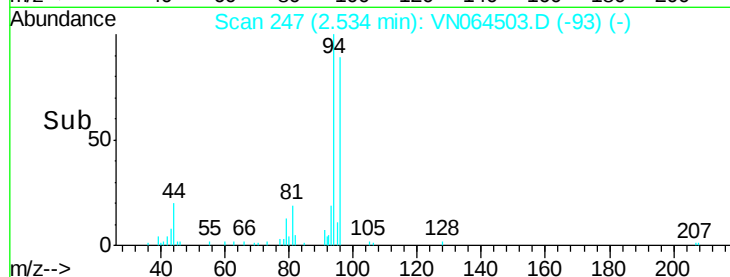
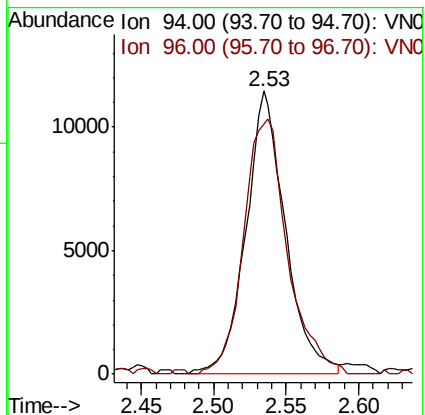
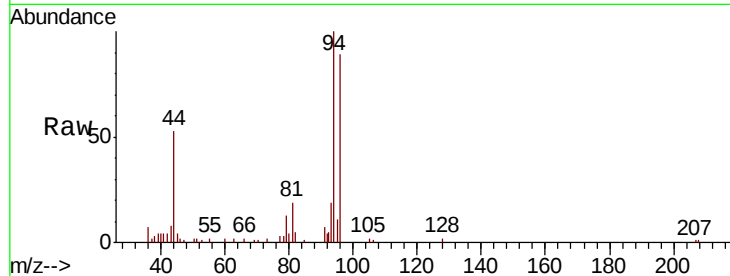
ClientSampled :

Tot Ion: 94 Resp: 21785

Ion Ratio Lower Upper

94 100

96 88.5 79.3 118.9



#6

Chloroethane

Concen: 6.132 ug/l

RT: 2.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN064503.D

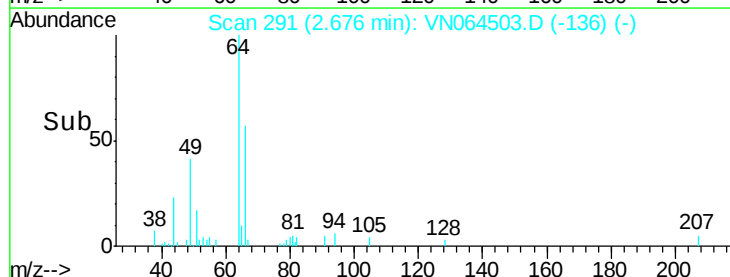
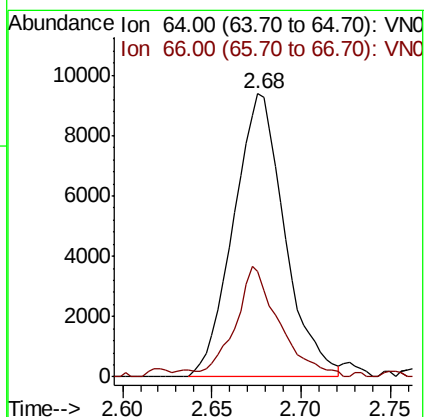
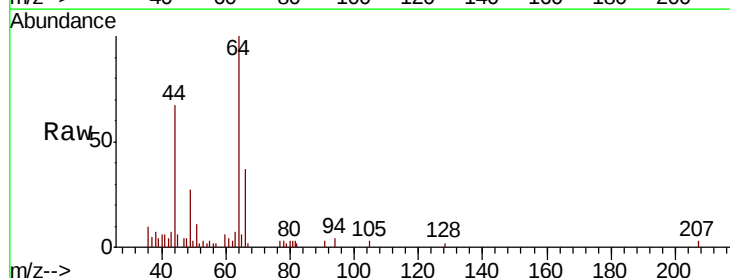
Acq: 9 Nov 2020 11:15

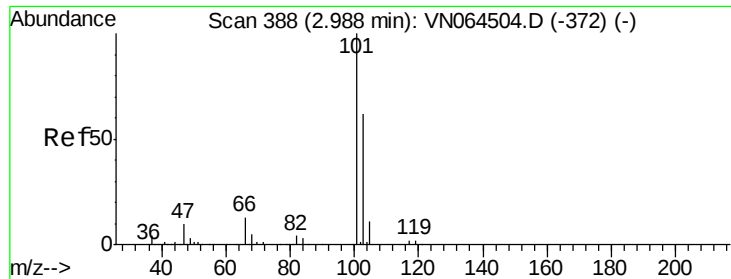
Tgt Ion: 64 Resp: 18748

Ion Ratio Lower Upper

64 100

66 35.0 26.0 39.0



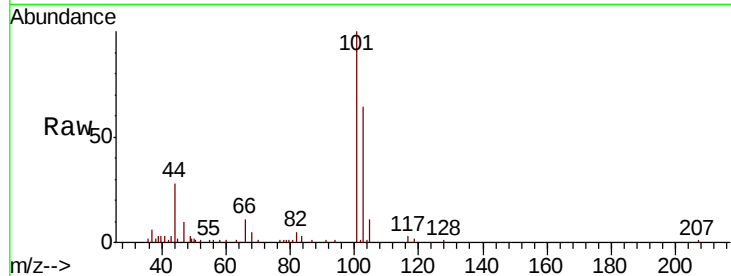


#7

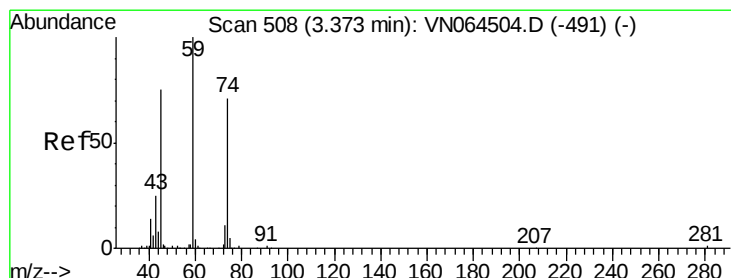
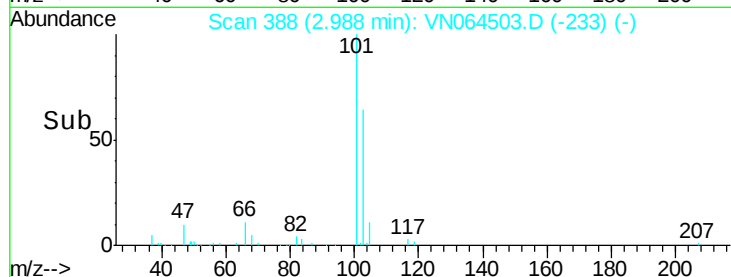
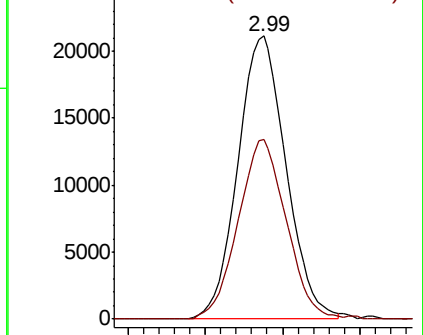
Trichlorofluoromethane  
 Concen: 5.526 ug/l  
 RT: 2.99 min Scan# 388  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion:101 Resp: 45753  
 Ion Ratio Lower Upper  
 101 100  
 103 63.6 49.3 73.9



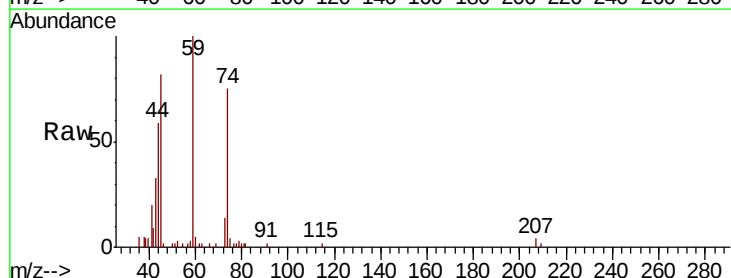
Abundance Ion 101.00 (100.70 to 101.70): V  
 Ion 103.00 (102.70 to 103.70): V



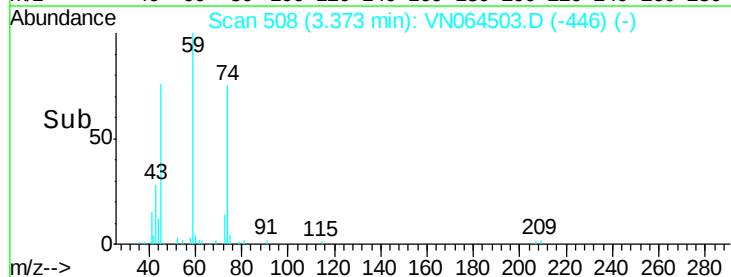
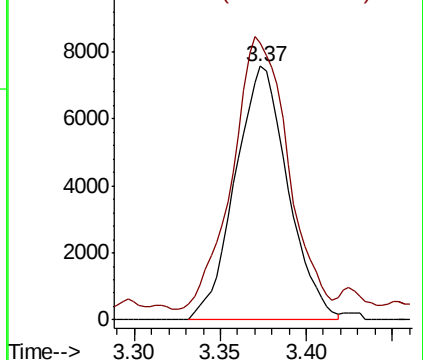
#8

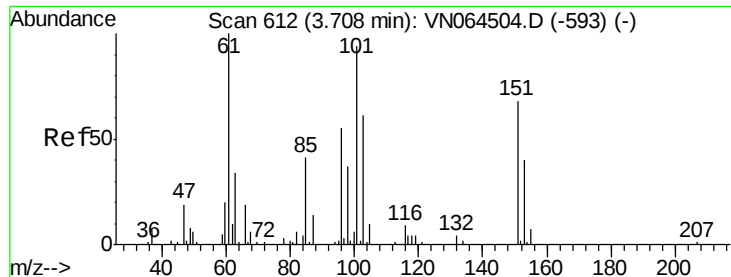
Diethyl Ether  
 Concen: 6.105 ug/l  
 RT: 3.37 min Scan# 508  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion: 74 Resp: 16164  
 Ion Ratio Lower Upper  
 74 100  
 45 112.8 22.1 198.5



Abundance Ion 74.00 (73.70 to 74.70): VNO  
 Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.146 ug/l

RT: 3.71 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

ClientSampleId :

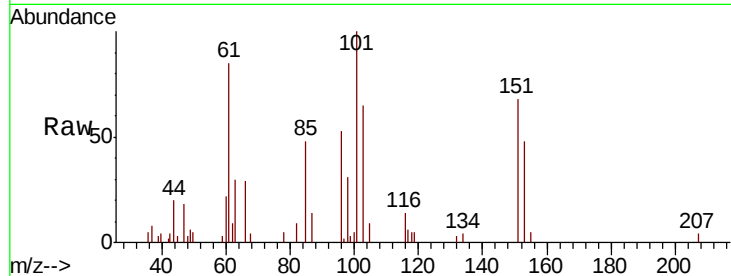
Tot Ion:101 Resp: 21156

Ion Ratio Lower Upper

101 100

85 47.8 0.0 49.0

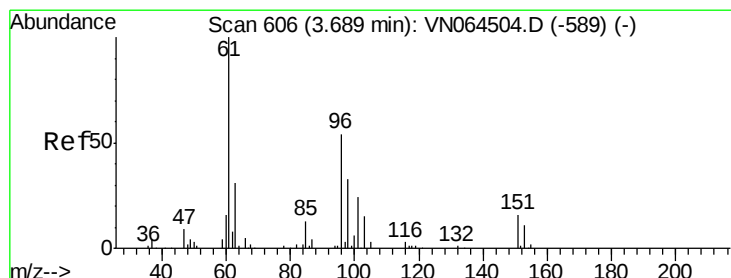
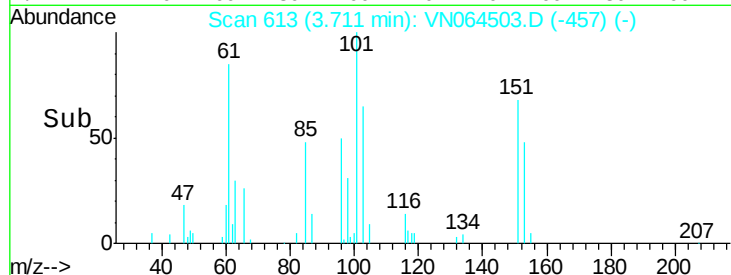
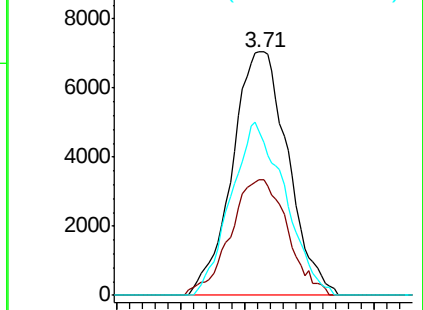
151 69.3 0.0 80.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 5.123 ug/l

RT: 3.69 min Scan# 606

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

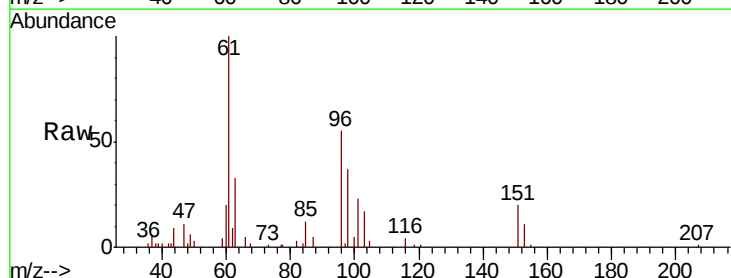
Tgt Ion: 96 Resp: 20082

Ion Ratio Lower Upper

96 100

61 179.4 149.2 223.8

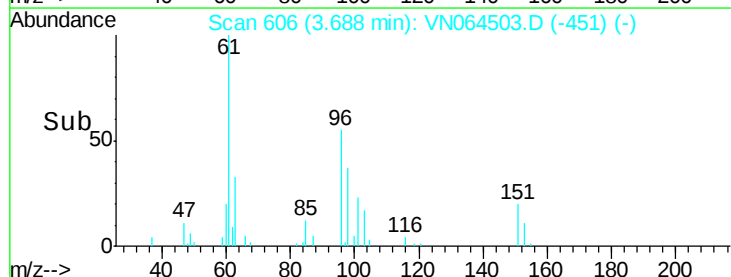
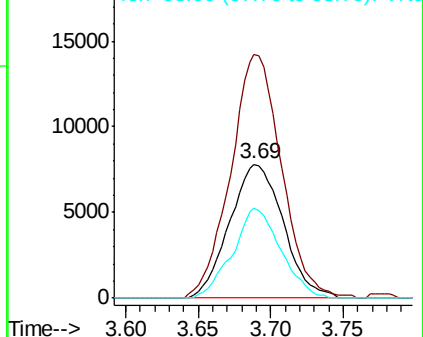
98 67.2 49.6 74.4

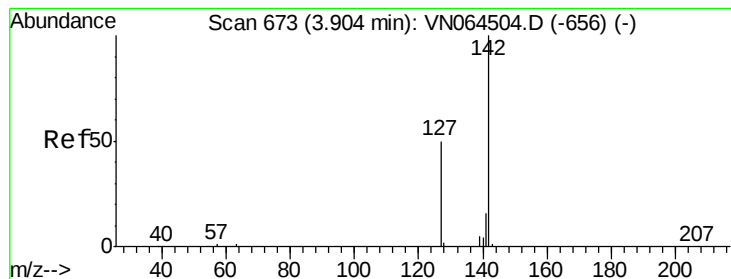


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#11

Methyl Iodide

Concen: 3.943 ug/l

RT: 3.90 min Scan# 672

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

ClientSampled :

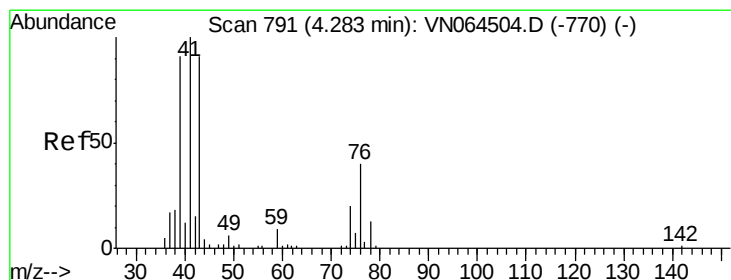
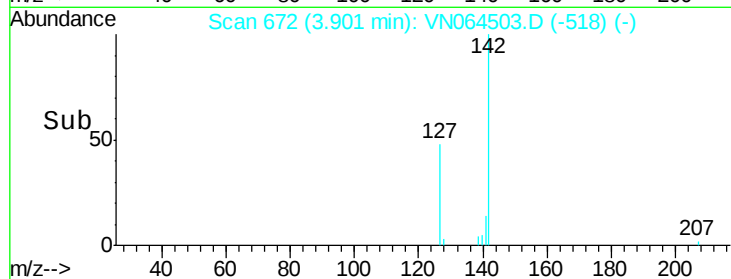
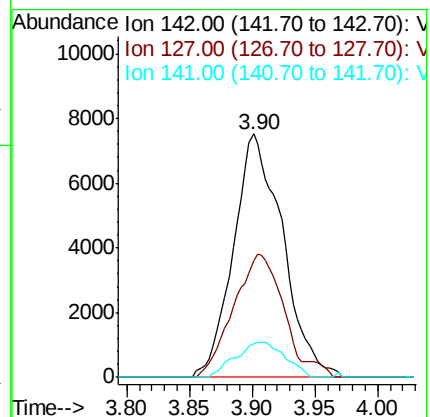
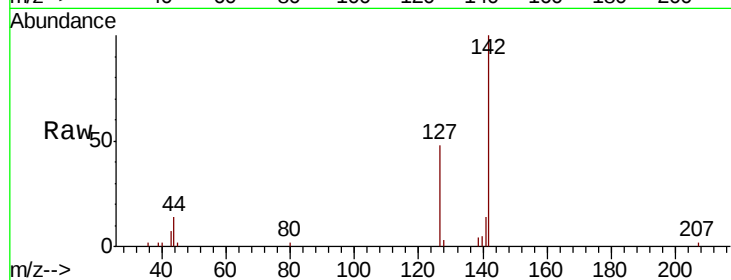
Tot Ion:142 Resp: 20413

Ion Ratio Lower Upper

142 100

127 51.4 24.7 74.1

141 14.1 7.8 23.3



#12

Methyl Acetate

Concen: 5.221 ug/l

RT: 4.28 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN064503.D

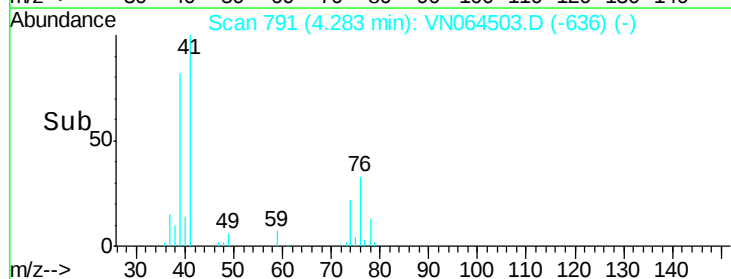
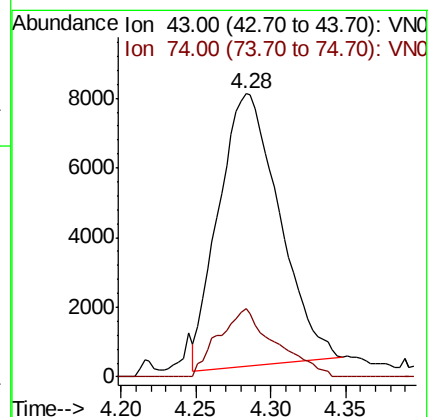
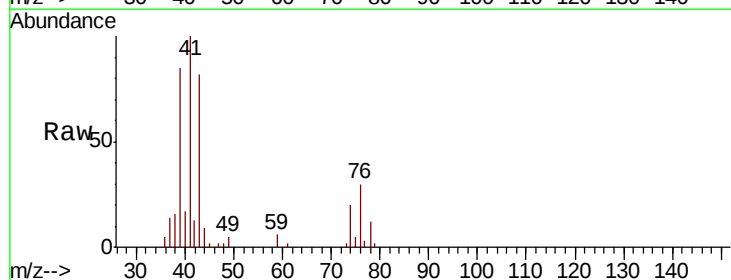
Acq: 9 Nov 2020 11:15

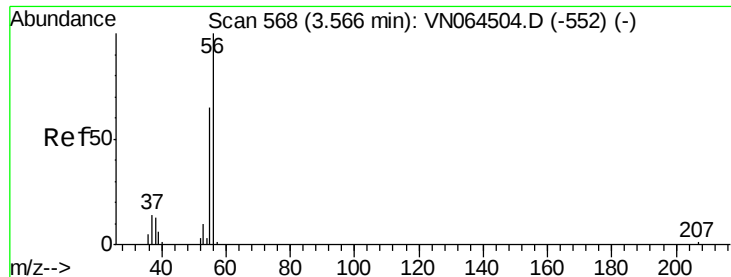
Tgt Ion: 43 Resp: 22028

Ion Ratio Lower Upper

43 100

74 26.7 17.7 26.5#





#13

Acrolein

Concen: 29.703 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

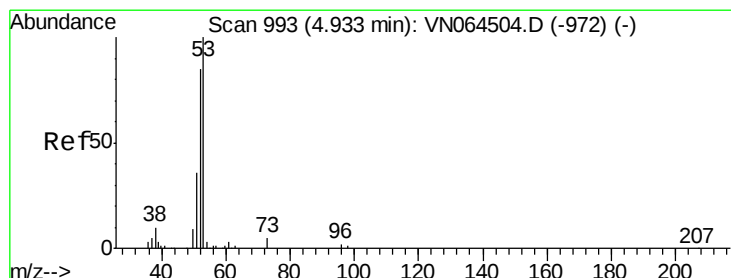
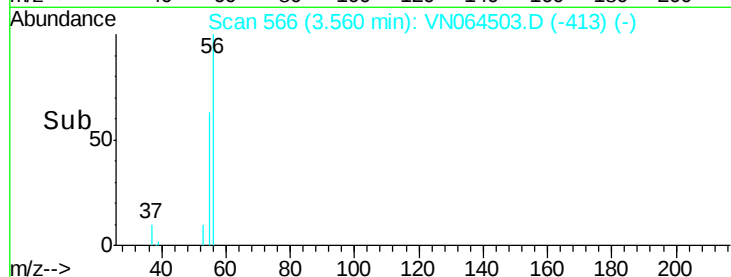
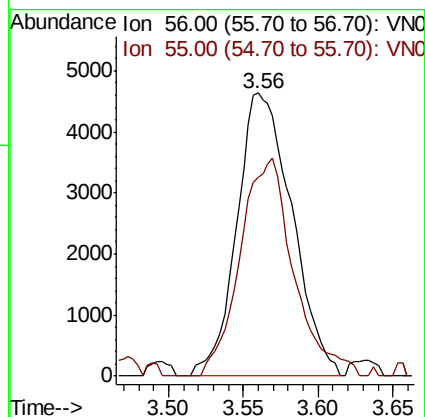
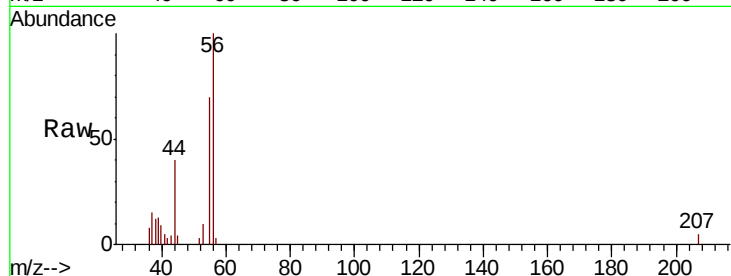
ClientSampled :

Tot Ion: 56 Resp: 11866

Ion Ratio Lower Upper

56 100

55 75.1 58.2 87.2



#14

Acrylonitrile

Concen: 11.728 ug/l

RT: 4.93 min Scan# 993

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

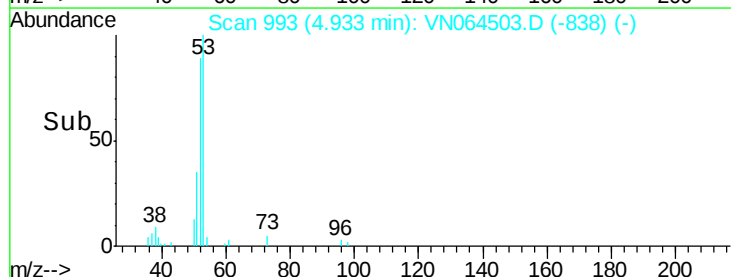
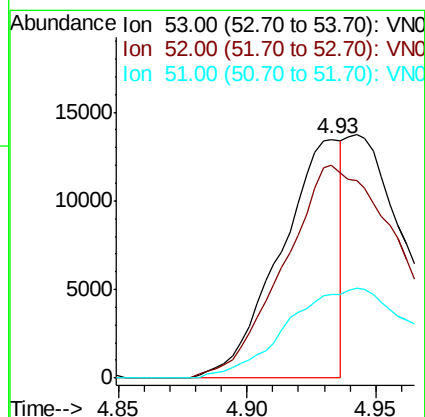
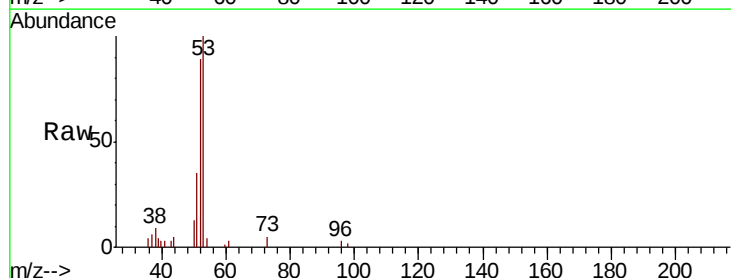
Tgt Ion: 53 Resp: 22015

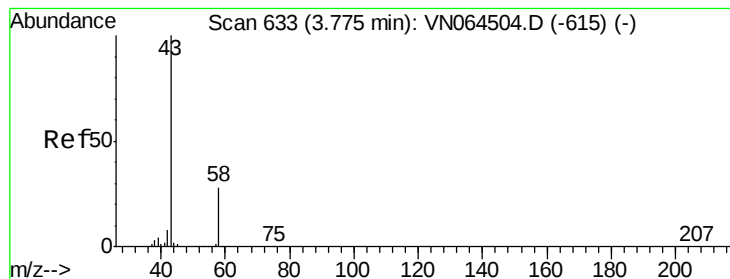
Ion Ratio Lower Upper

53 100

52 182.4 41.3 124.1#

51 81.3 18.9 56.5#





#15

Acetone

Concen: 26.470 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

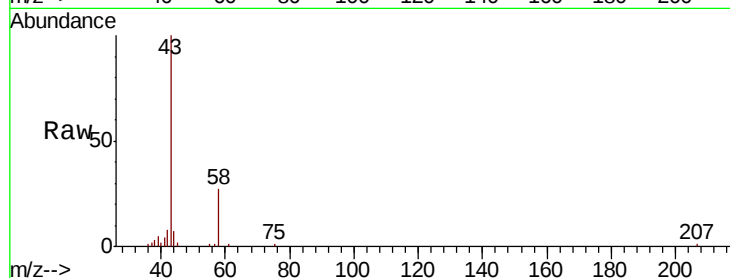
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 58 Resp: 17141

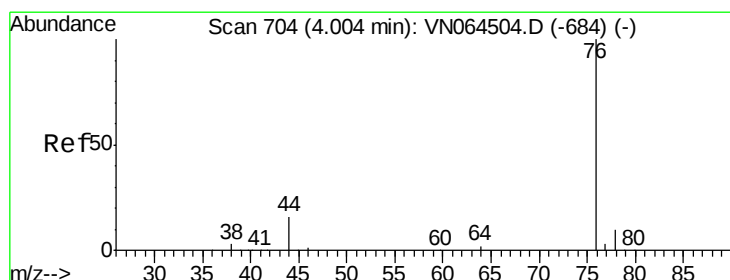
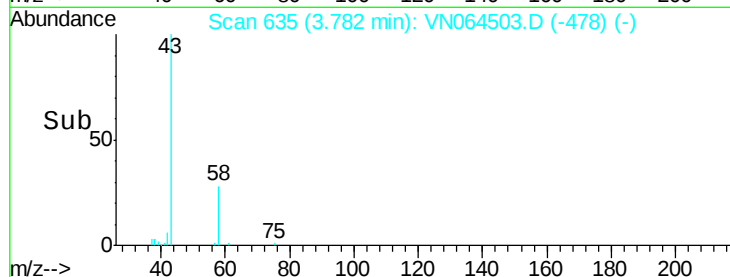
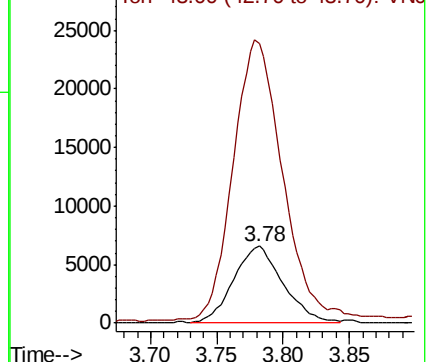
Ion Ratio Lower Upper

58 100

43 358.6 289.8 434.8



Abundance Ion 58.00 (57.70 to 58.70): VN064503.D (-478) (-)



#16

Carbon Disulfide

Concen: 5.447 ug/l

RT: 4.00 min Scan# 703

Delta R.T. -0.00 min

Lab File: VN064503.D

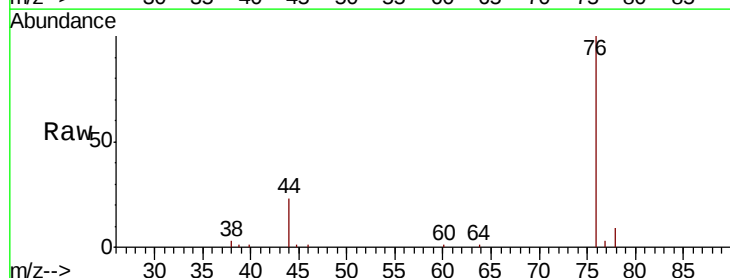
Acq: 9 Nov 2020 11:15

Tgt Ion: 76 Resp: 61452

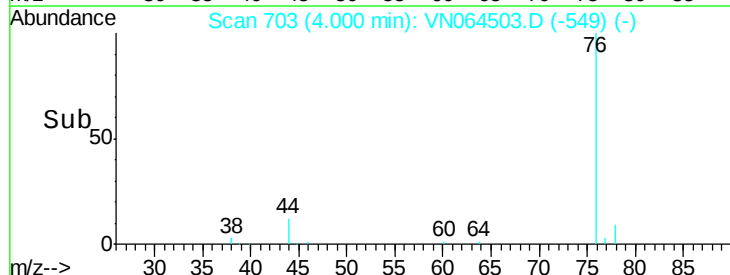
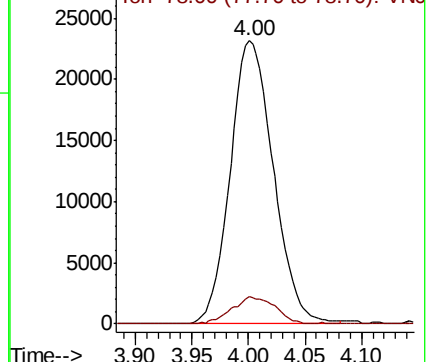
Ion Ratio Lower Upper

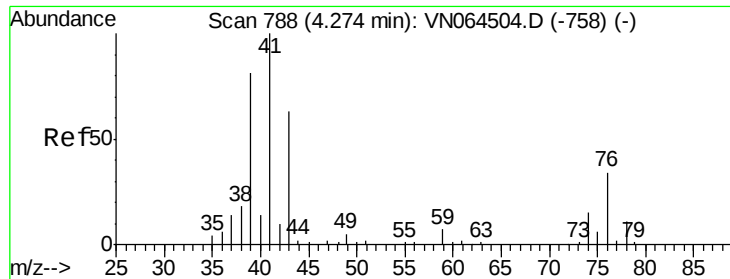
76 100

78 9.5 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VN064503.D (-549) (-)

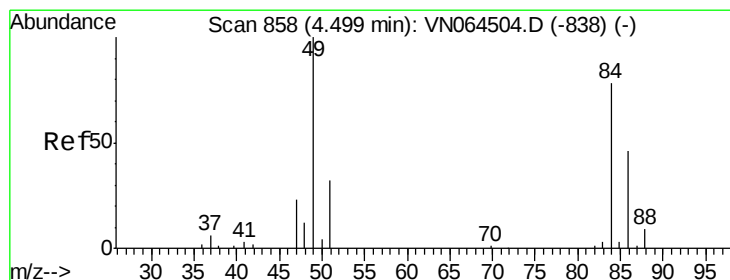
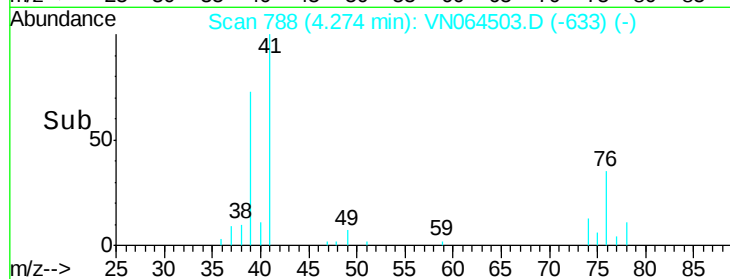
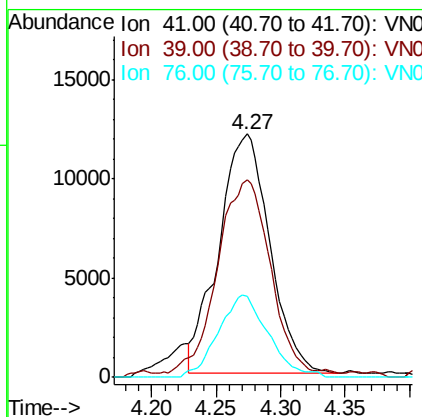
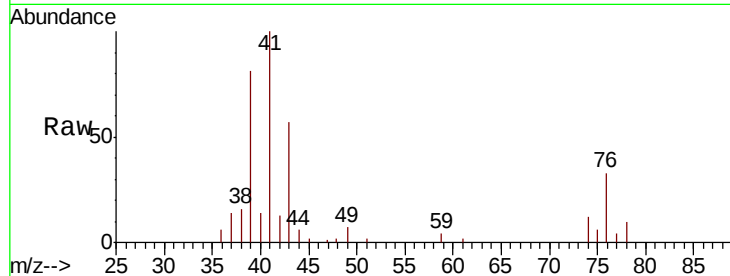




#17  
Allvl chloride  
Concen: 4.771 ug/l  
RT: 4.27 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

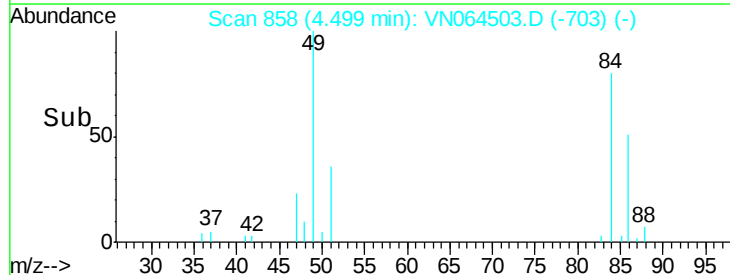
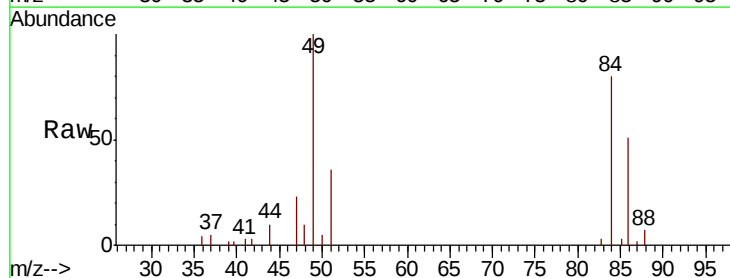
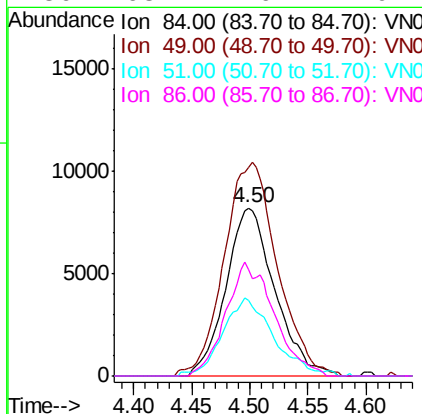
Instrument :  
MSVOA\_N  
ClientSampleId :

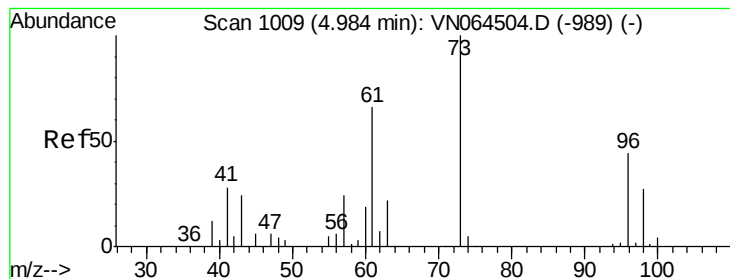
Tot Ion: 41 Resp: 33216  
Ion Ratio Lower Upper  
41 100  
39 80.5 40.3 120.8  
76 33.7 16.8 50.3



#18  
Methylene Chloride  
Concen: 5.261 ug/l  
RT: 4.50 min Scan# 858  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 84 Resp: 23958  
Ion Ratio Lower Upper  
84 100  
49 122.3 102.1 153.1  
51 44.8 32.6 48.8  
86 63.4 46.7 70.1





#19

trans-1,2-Dichloroethene

Concen: 5.160 ug/l

RT: 4.98 min Scan# 1009

Delta R.T. -0.00 min

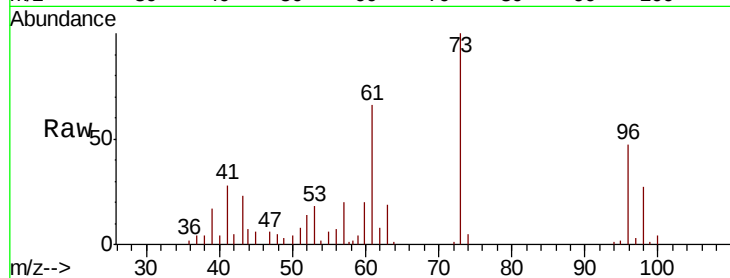
Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 96 Resp: 22309

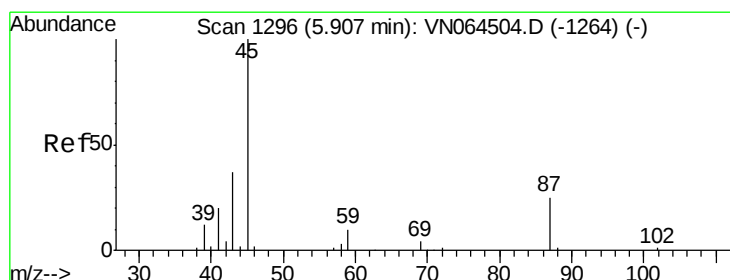
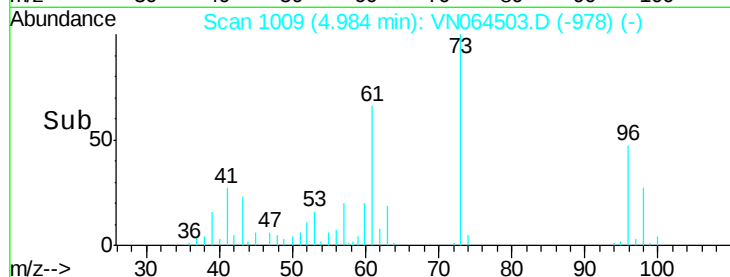
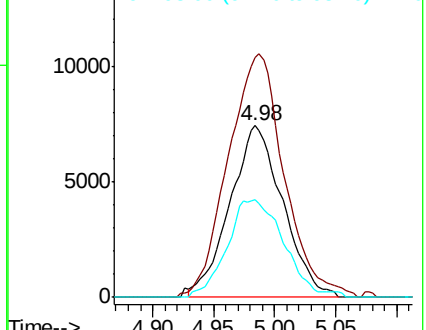
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 136.9 | 120.1 | 180.1 |
| 98  | 57.0  | 49.1  | 73.7  |



Abundance Ion 96.00 (95.70 to 96.70): VN064503.D (-1234) (-)

Ion 61.00 (60.70 to 61.70): VN064503.D (-1234) (-)

Ion 98.00 (97.70 to 98.70): VN064503.D (-1234) (-)



#20

Diisopropyl ether

Concen: 4.838 ug/l

RT: 5.90 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Tgt Ion: 45 Resp: 71578

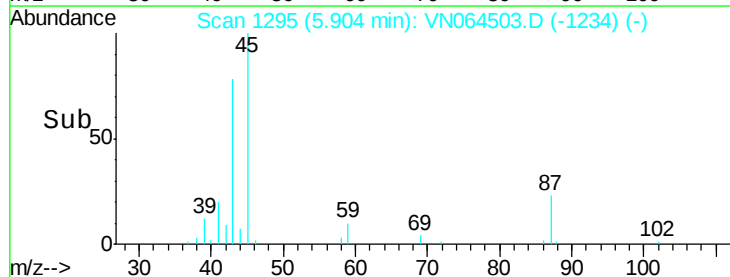
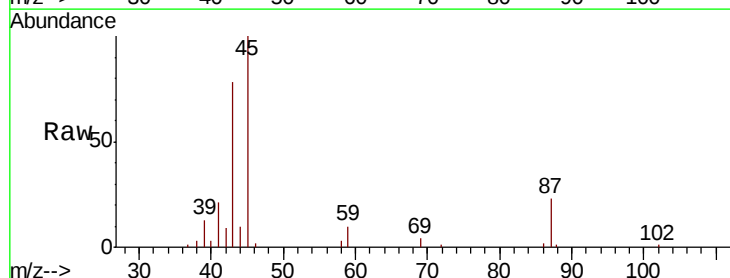
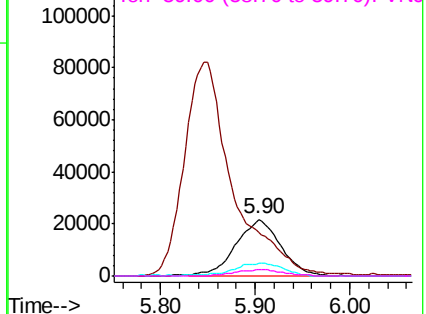
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 74.3  | 53.1  | 79.7  |
| 87  | 23.3  | 21.0  | 31.6  |
| 59  | 10.4  | 8.2   | 12.4  |

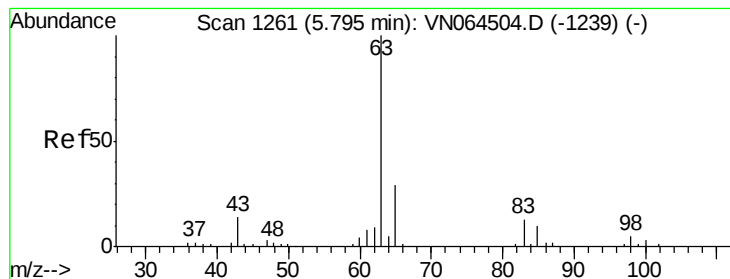
Abundance Ion 45.00 (44.70 to 45.70): VN064503.D (-1234) (-)

Ion 43.00 (42.70 to 43.70): VN064503.D (-1234) (-)

Ion 87.00 (86.70 to 87.70): VN064503.D (-1234) (-)

Ion 59.00 (58.70 to 59.70): VN064503.D (-1234) (-)





#21

1,1-Dichloroethane

Concen: 5.320 ug/l

RT: 5.79 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :  
MSVOA\_N  
ClientSampleId :

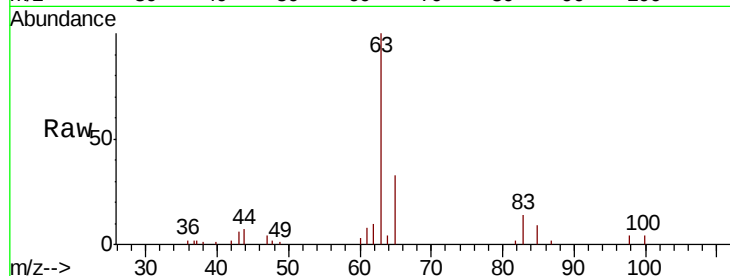
Tot Ion: 63 Resp: 44422

Ion Ratio Lower Upper

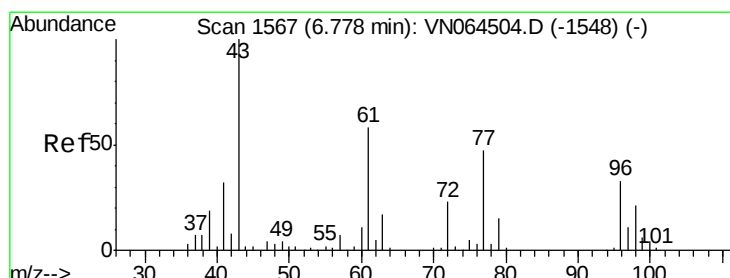
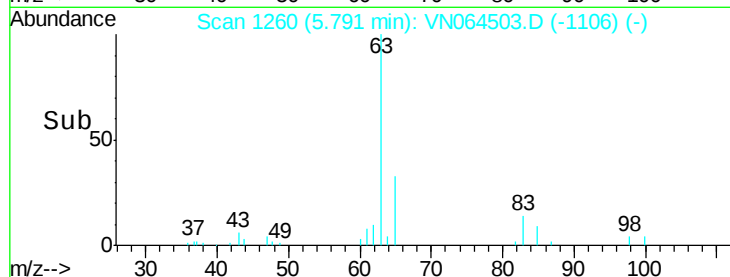
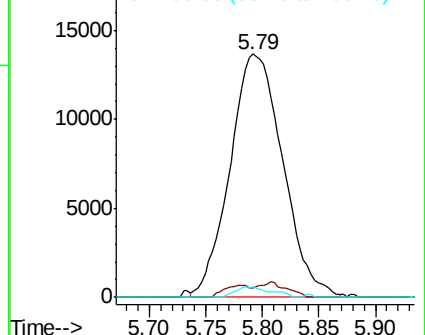
63 100

98 3.8 2.6 8.0

100 4.3 1.7 5.1



Abundance Ion 63.00 (62.70 to 63.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0



#22

cis-1,2-Dichloroethene

Concen: 4.799 ug/l

RT: 6.78 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

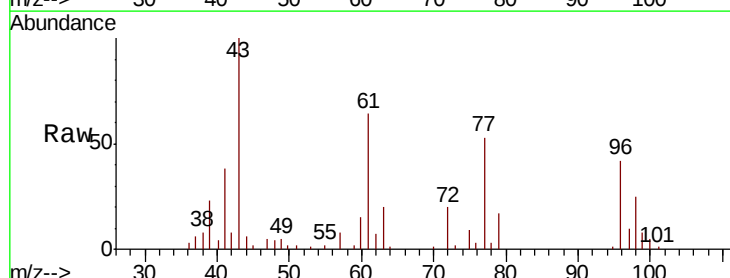
Tgt Ion: 96 Resp: 24205

Ion Ratio Lower Upper

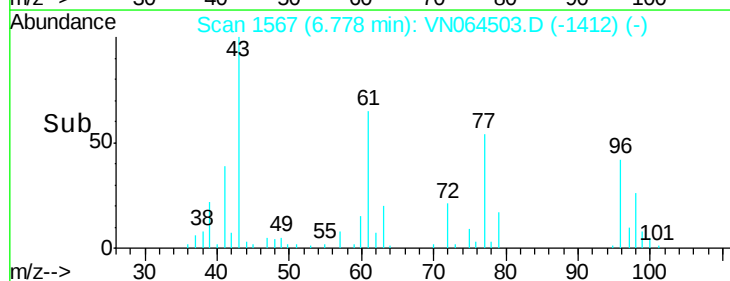
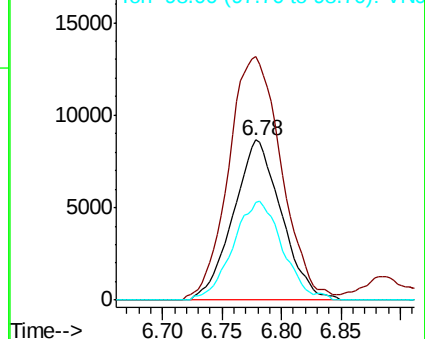
96 100

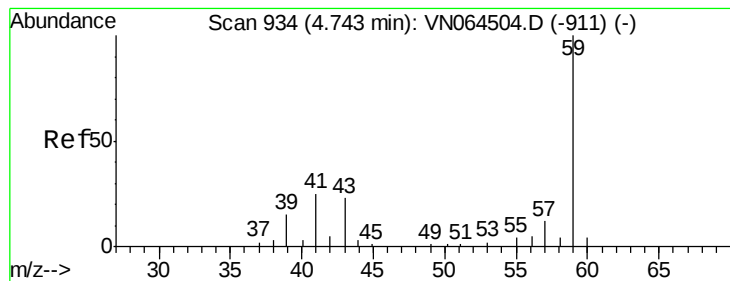
61 165.7 136.1 204.1

98 62.5 51.8 77.8



Abundance Ion 96.00 (95.70 to 96.70): VN0  
Ion 61.00 (60.70 to 61.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0



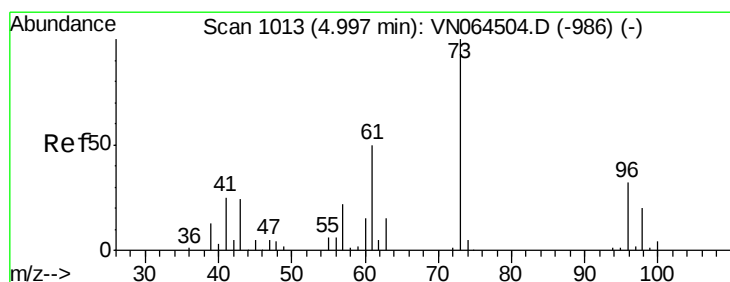
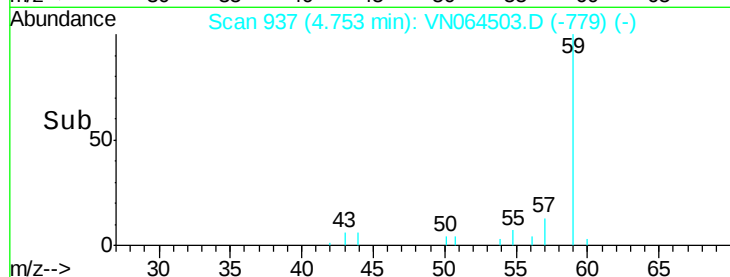
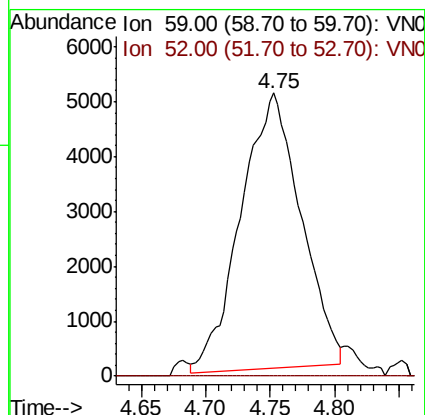
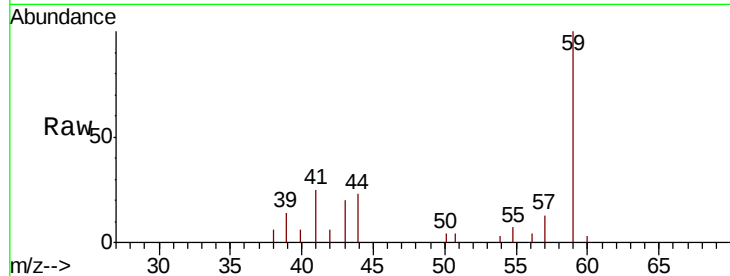


#23

tert-Butyl Alcohol  
 Concen: 23.164 ug/l  
 RT: 4.75 min Scan# 937  
 Delta R.T. 0.01 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Instrument :  
 MSVOA\_N  
 ClientSampled :

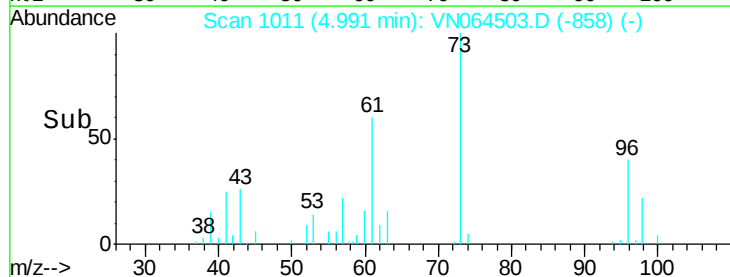
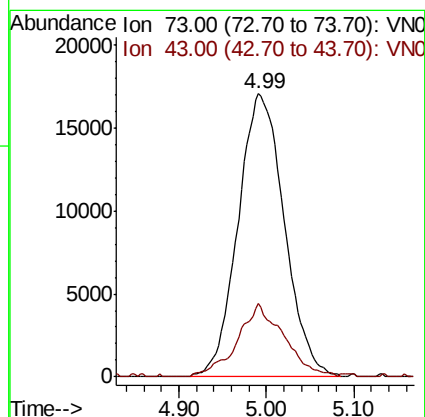
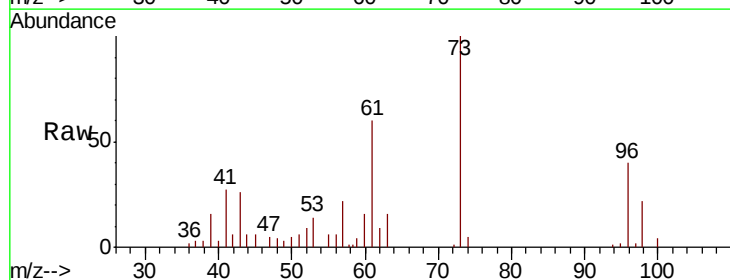
Tot Ion: 59 Resp: 16271  
 Ion Ratio Lower Upper  
 59 100  
 52 0.0 0.0 0.0

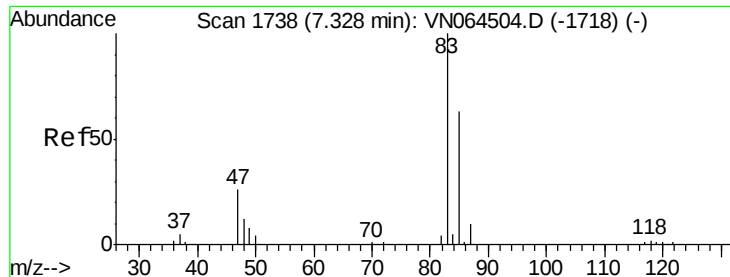


#24

Methyl tert-Butyl Ether  
 Concen: 4.509 ug/l  
 RT: 4.99 min Scan# 1011  
 Delta R.T. -0.01 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion: 73 Resp: 62641  
 Ion Ratio Lower Upper  
 73 100  
 43 25.8 10.2 15.2#

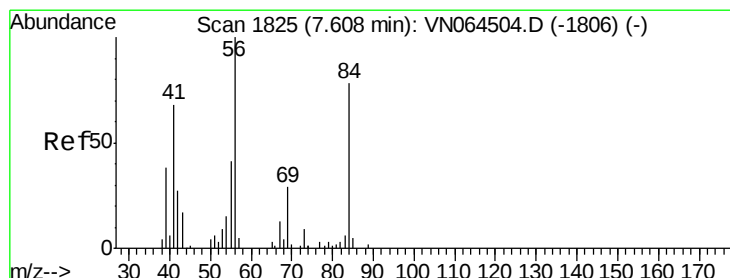
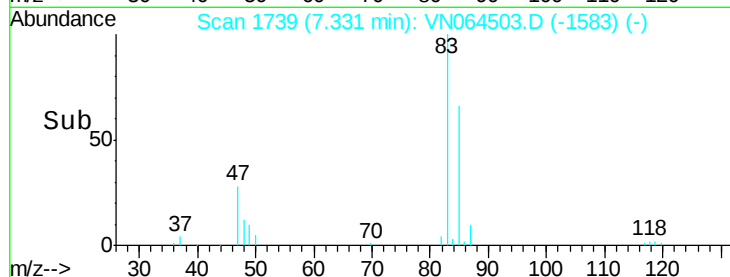
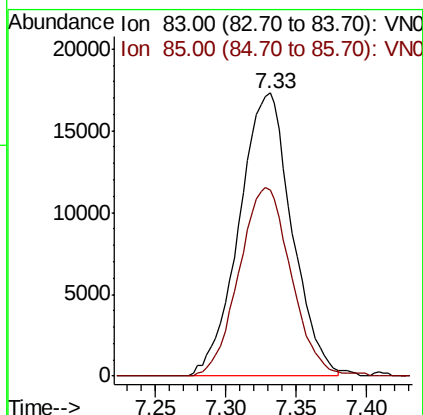
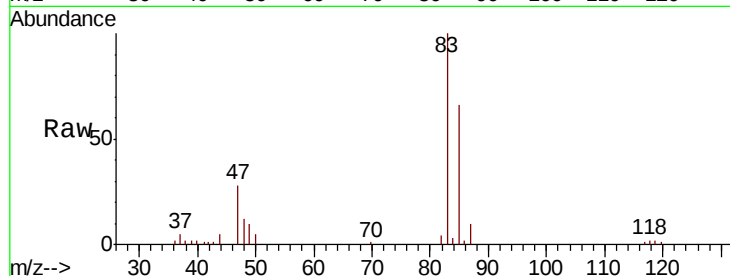




#25  
Chloroform  
Concen: 5.052 ug/l  
RT: 7.33 min Scan# 1739  
Delta R.T. 0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

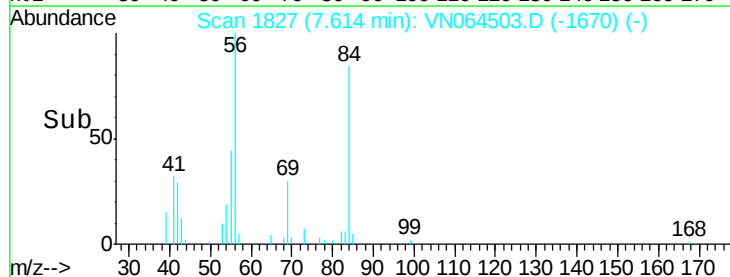
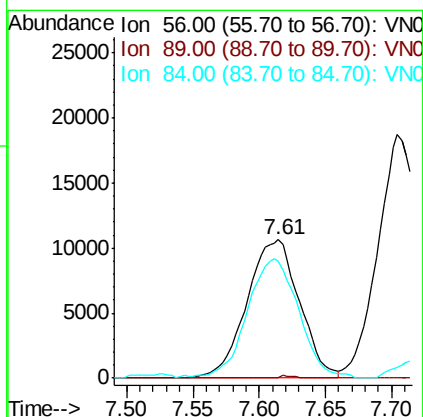
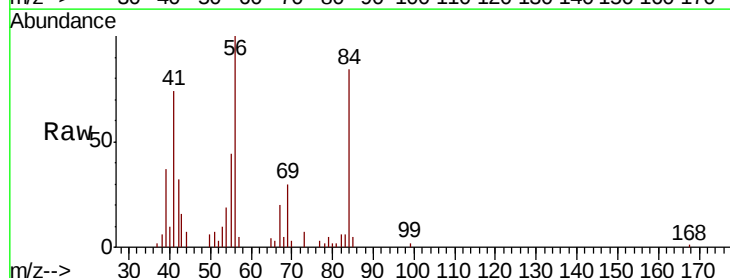
Instrument :  
MSVOA\_N  
ClientSampleId :

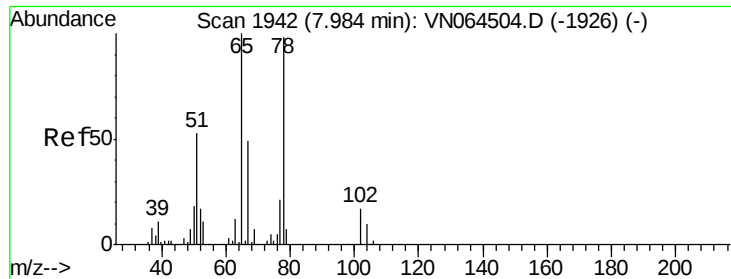
Tot Ion: 83 Resp: 45228  
Ion Ratio Lower Upper  
83 100  
85 65.8 50.6 75.8



#26  
Cyclohexane  
Concen: 4.451 ug/l  
RT: 7.61 min Scan# 1827  
Delta R.T. 0.01 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 56 Resp: 29346  
Ion Ratio Lower Upper  
56 100  
89 0.3 0.6 0.8#  
84 84.4 66.1 99.1

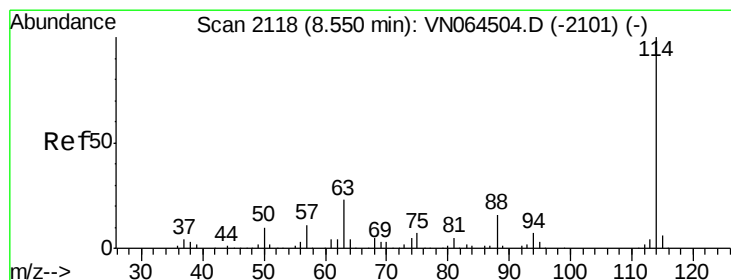
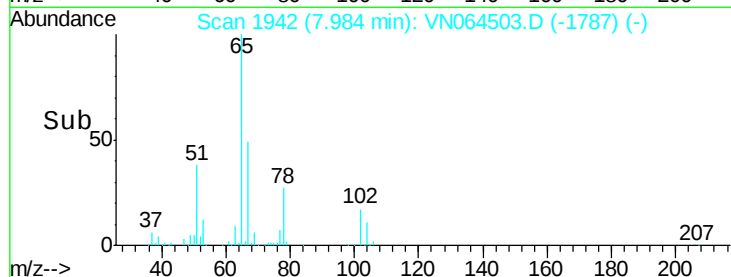
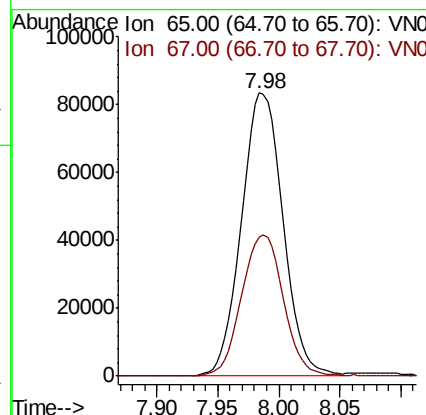
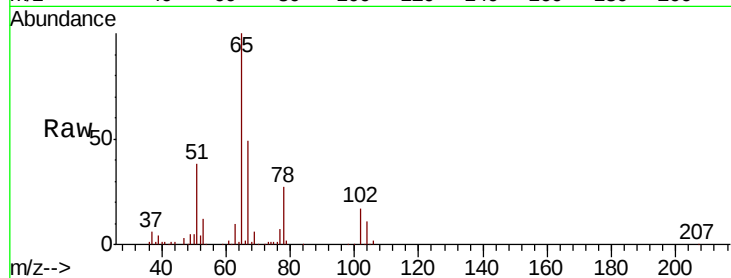




#27  
 1,2-Dichloroethane-d4  
 Concen: 32.819 ug/l  
 RT: 7.98 min Scan# 1942  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

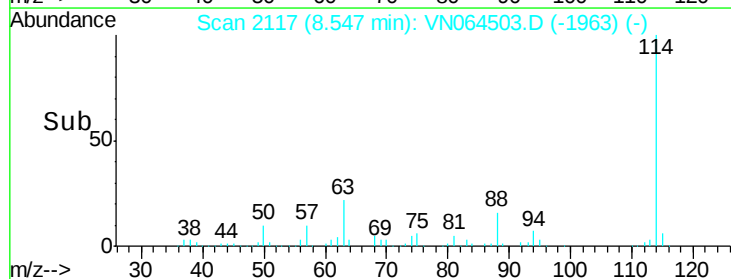
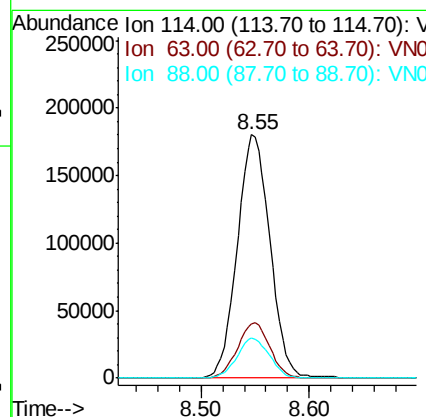
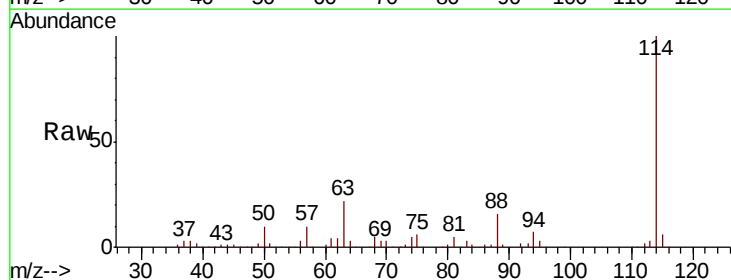
Instrument :  
 MSVOA\_N  
 ClientSampled :

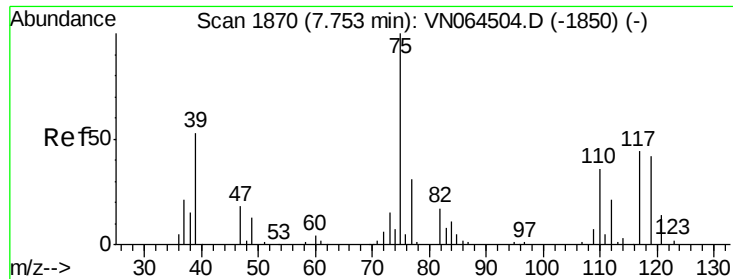
Tot Ion: 65 Resp: 197206  
 Ion Ratio Lower Upper  
 65 100  
 67 50.1 41.1 61.7



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.55 min Scan# 2117  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion: 114 Resp: 381194  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 18.5 27.7  
 88 16.2 13.0 19.6

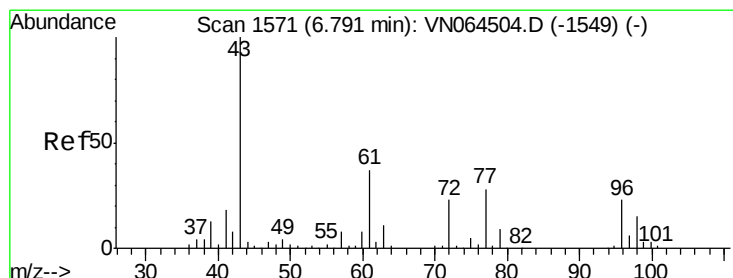
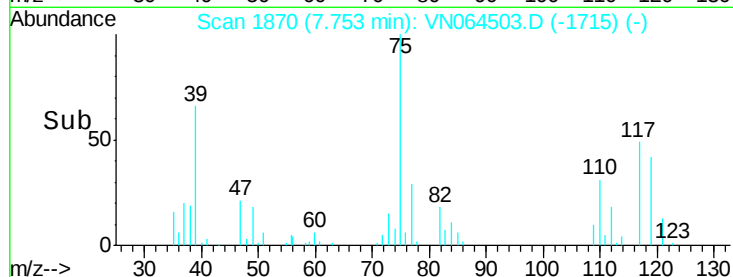
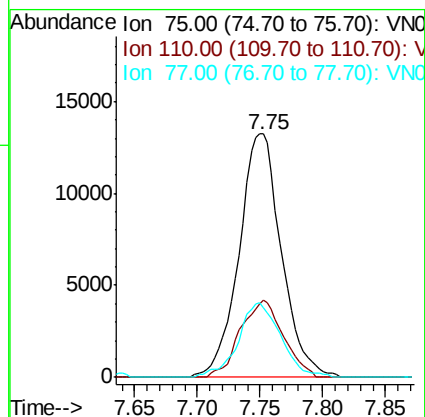
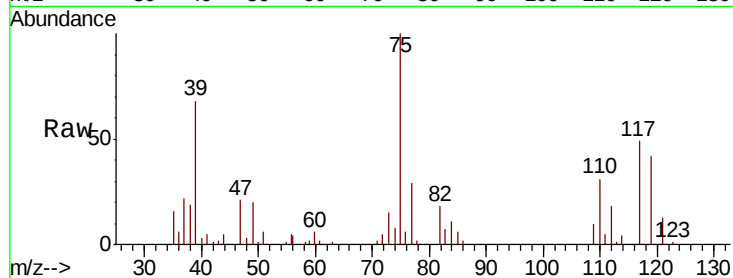




#29  
 1,1-Dichloropropene  
 Concen: 4.986 ug/l  
 RT: 7.75 min Scan# 1870  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

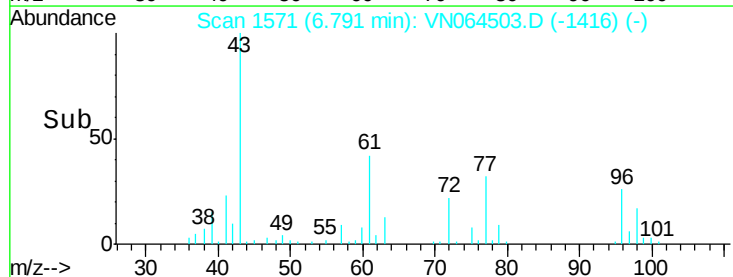
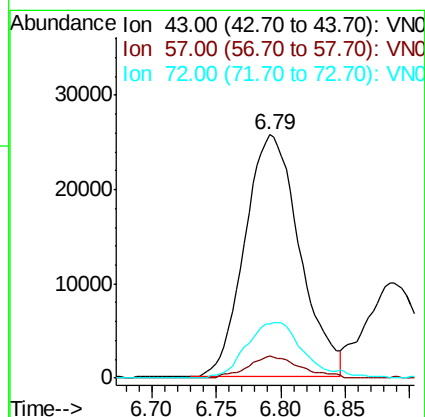
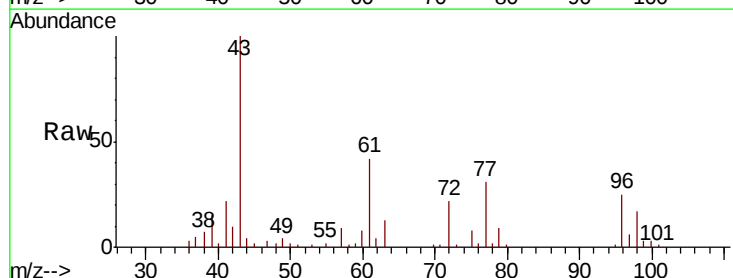
Instrument :  
 MSVOA\_N  
 ClientSampled :

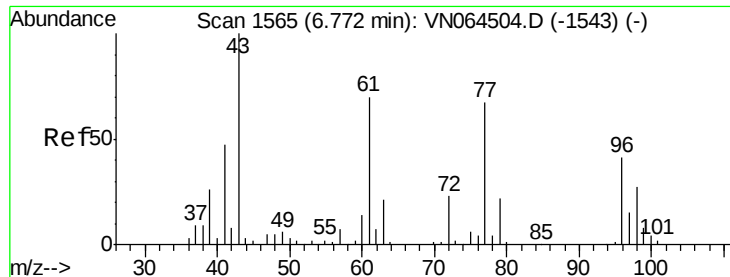
Tot Ion: 75 Resp: 31076  
 Ion Ratio Lower Upper  
 75 100  
 110 32.2 0.0 66.4  
 77 29.9 0.0 62.0



#30  
 2-Butanone  
 Concen: 26.676 ug/l  
 RT: 6.79 min Scan# 1571  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion: 43 Resp: 76060  
 Ion Ratio Lower Upper  
 43 100  
 57 8.1 6.2 9.4  
 72 22.9 9.9 14.9#





#31

2,2-Dichloropropane

Concen: 5.066 ug/l

RT: 6.77 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

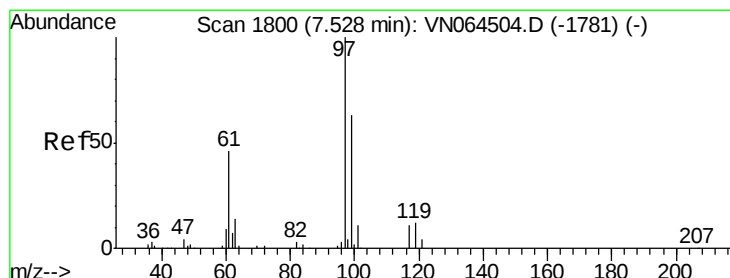
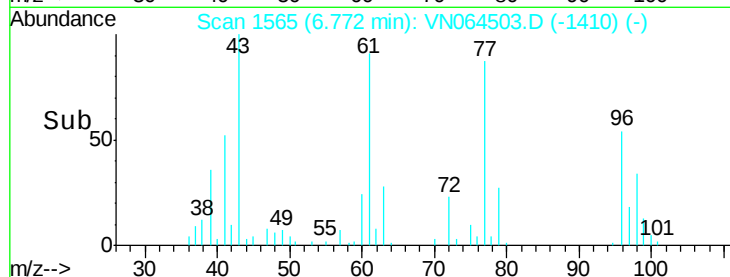
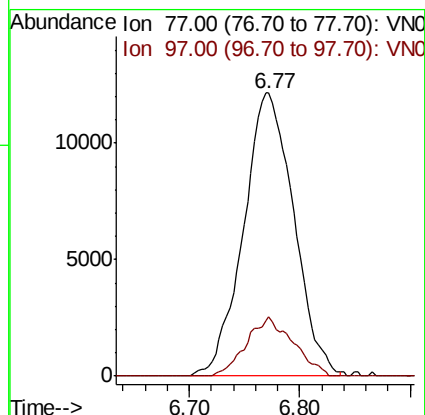
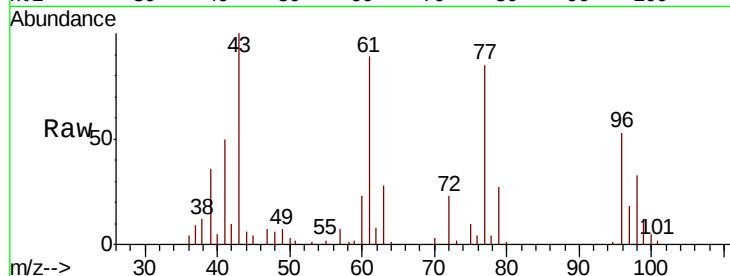
ClientSampled :

Tot Ion: 77 Resp: 38422

Ion Ratio Lower Upper

77 100

97 1.5 16.9 25.3#



#32

1,1,1-Trichloroethane

Concen: 4.949 ug/l

RT: 7.52 min Scan# 1799

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

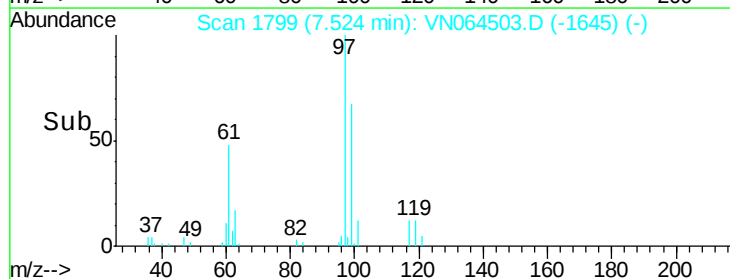
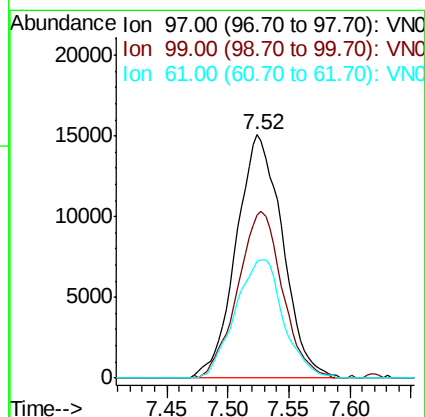
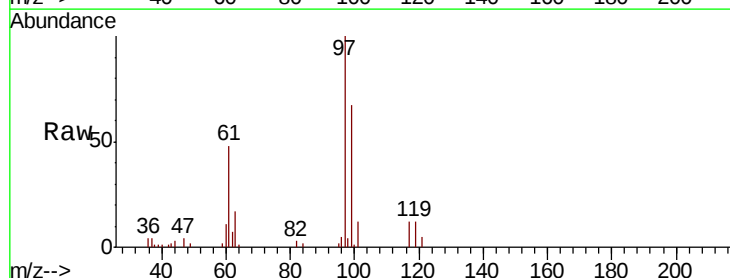
Tgt Ion: 97 Resp: 39682

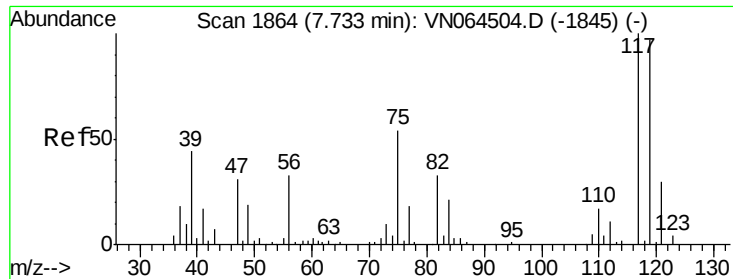
Ion Ratio Lower Upper

97 100

99 66.0 51.8 77.8

61 50.5 39.4 59.0

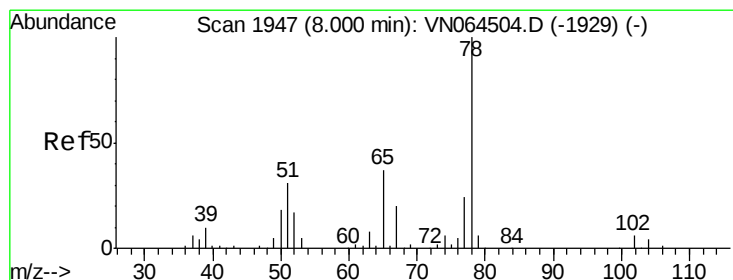
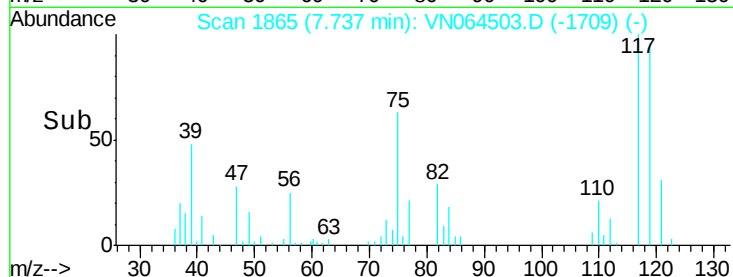
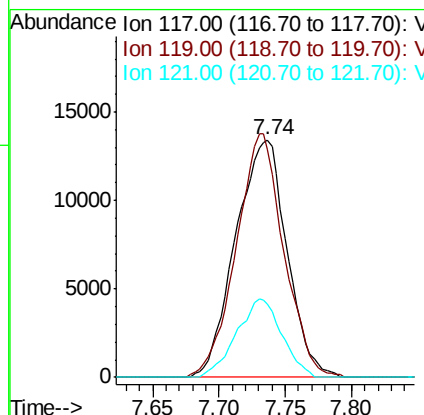
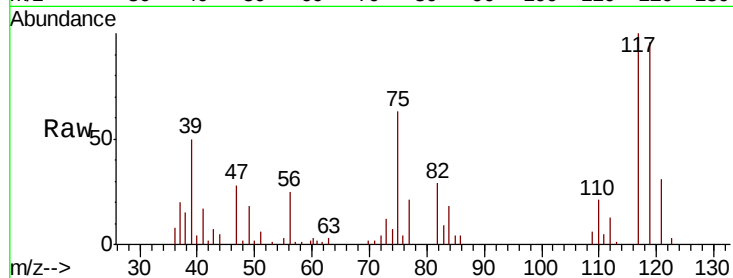




#33  
Carbon Tetrachloride  
Concen: 5.009 ug/l  
RT: 7.74 min Scan# 1865  
Delta R.T. 0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

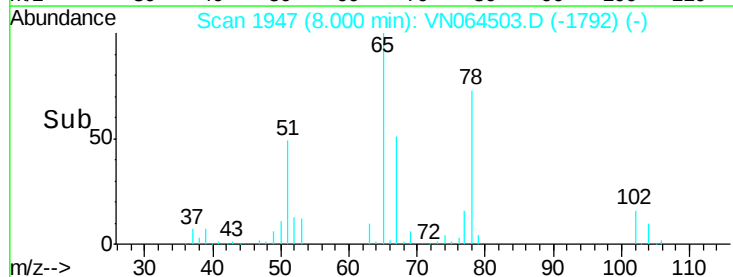
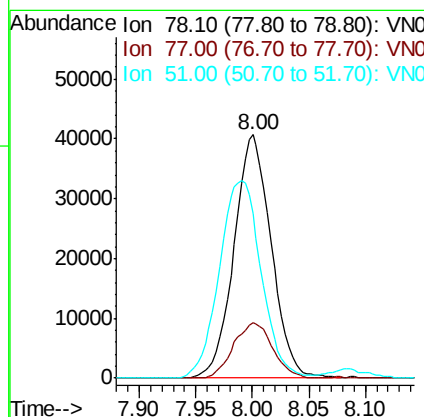
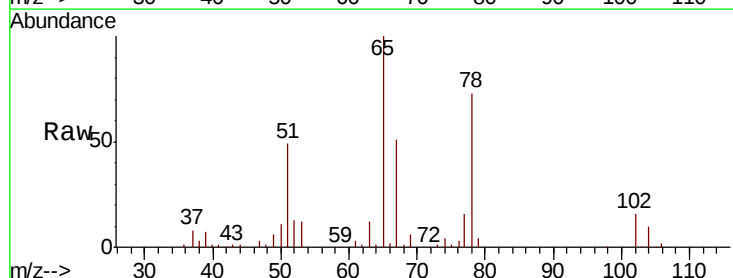
Instrument :  
MSVOA\_N  
ClientSampleId :

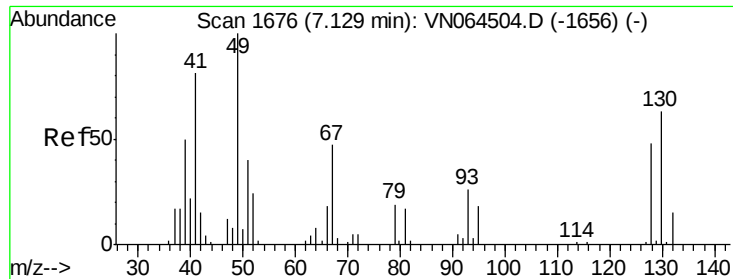
Tot Ion:117 Resp: 36140  
Ion Ratio Lower Upper  
117 100  
119 94.6 77.9 116.9  
121 31.0 24.0 36.0



#34  
Benzene  
Concen: 5.286 ug/l  
RT: 8.00 min Scan# 1947  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 78 Resp: 93085  
Ion Ratio Lower Upper  
78 100  
77 22.6 18.9 28.3  
51 64.6 24.6 36.8#

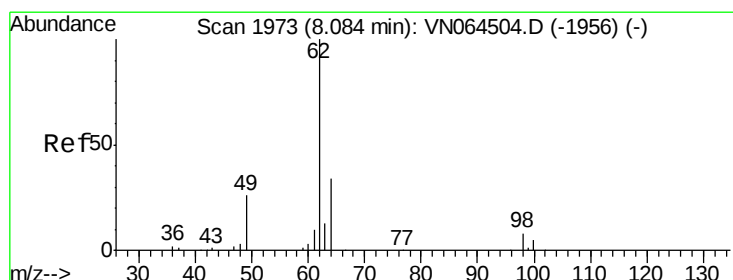
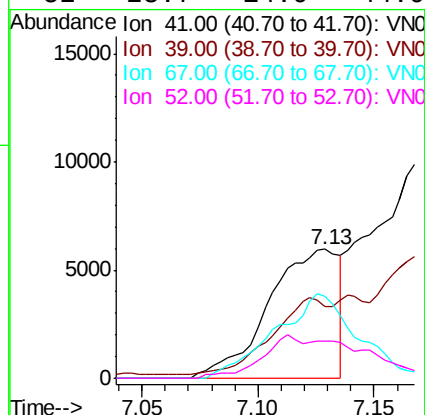
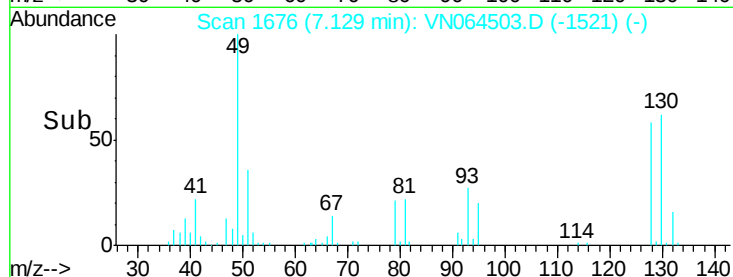
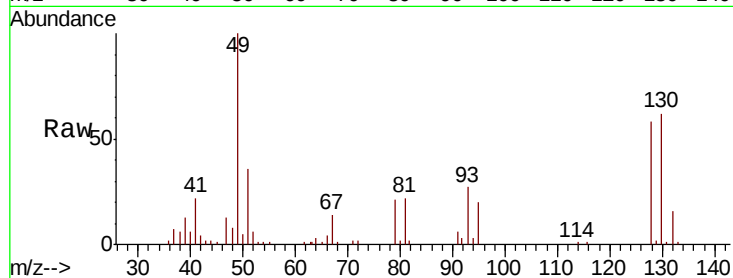




#35  
Methacrylonitrile  
Concen: 4.551 ug/l  
RT: 7.13 min Scan# 1676  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

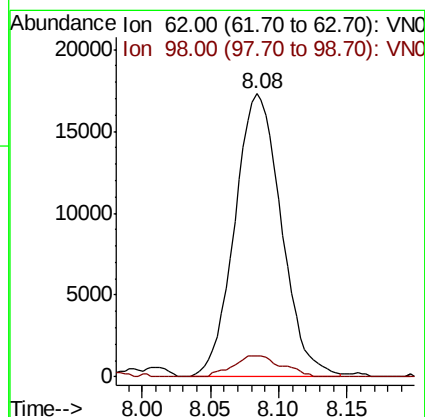
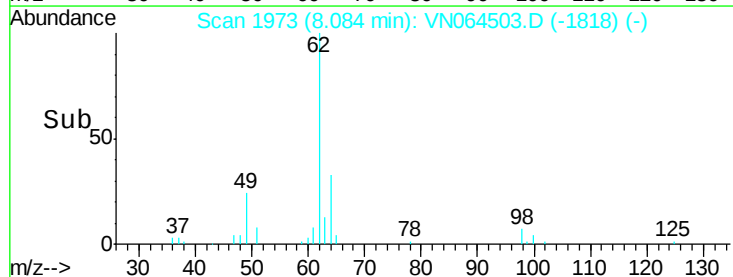
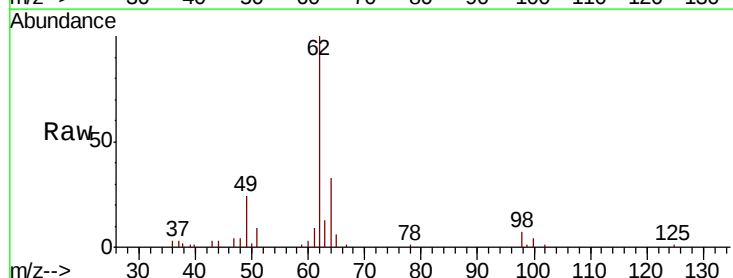
Instrument :  
MSVOA\_N  
ClientSampled :

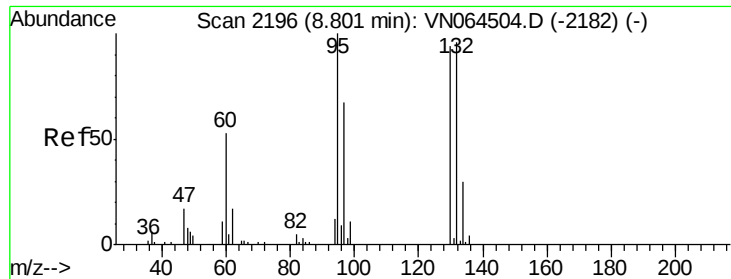
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 12642 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 52.8  | 30.0  | 90.1  |
| 67       | 63.4  | 29.2  | 87.6  |
| 52       | 28.7  | 14.9  | 44.9  |



#36  
1,2-Dichloroethane  
Concen: 5.663 ug/l  
RT: 8.08 min Scan# 1973  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 41139 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 7.8   | 5.5   | 8.3   |

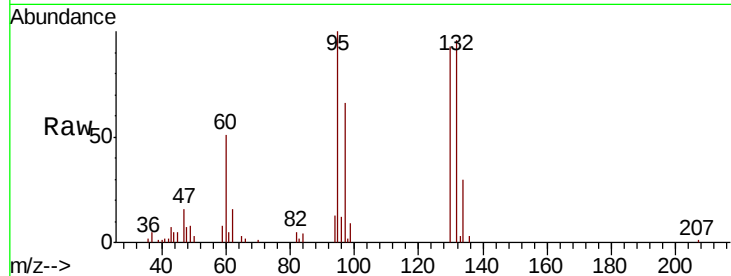




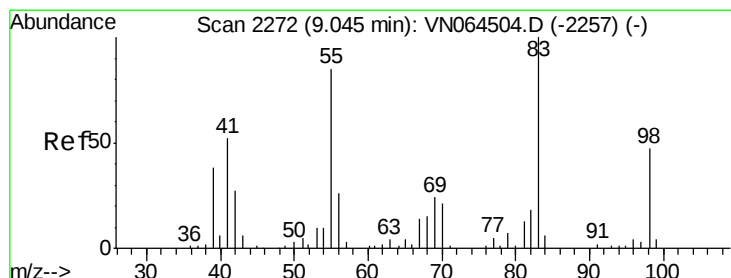
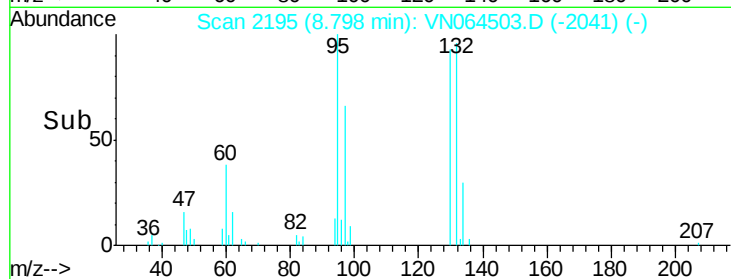
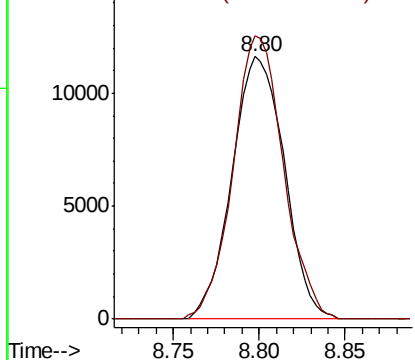
#37  
 Trichloroethene  
 Concen: 5.086 ug/l  
 RT: 8.80 min Scan# 2195  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:130 Resp: 24702  
 Ion Ratio Lower Upper  
 130 100  
 95 107.8 85.1 127.7

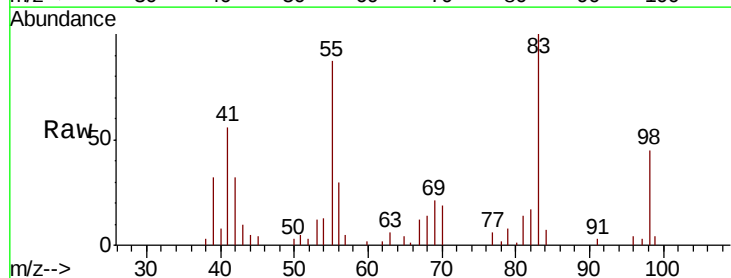


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VN

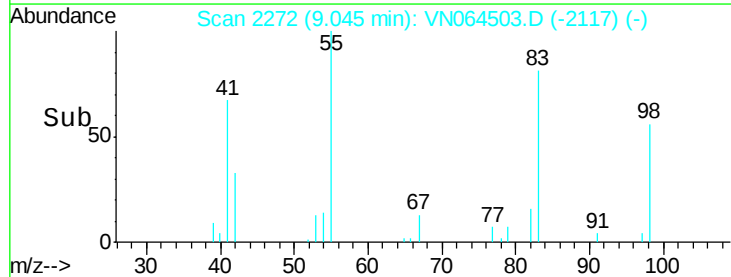
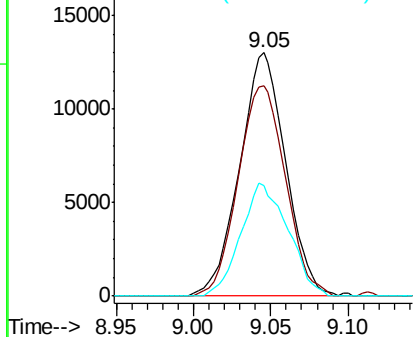


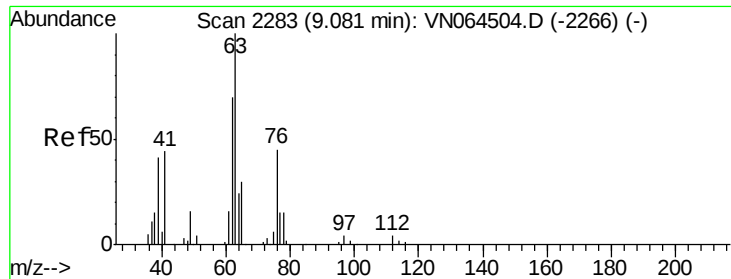
#38  
 Methylcyclohexane  
 Concen: 4.803 ug/l  
 RT: 9.05 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion: 83 Resp: 26911  
 Ion Ratio Lower Upper  
 83 100  
 55 88.9 42.0 126.1  
 98 47.5 22.5 67.5



Abundance Ion 83.00 (82.70 to 83.70): VN  
 Ion 55.00 (54.70 to 55.70): VN  
 Ion 98.00 (97.70 to 98.70): VN





#39

1,2-Dichloropropane

Concen: 5.408 ug/l

RT: 9.08 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

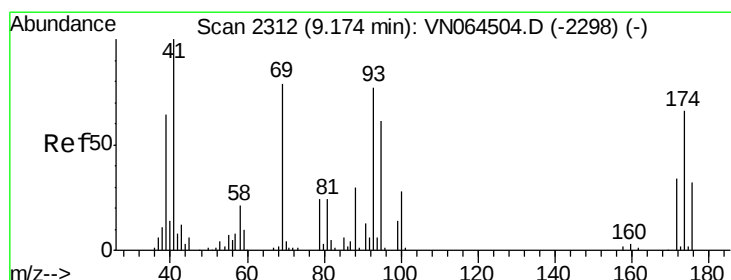
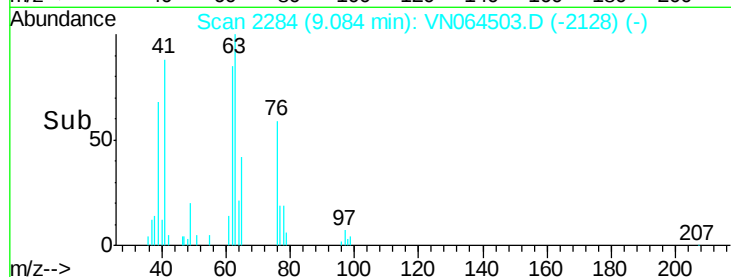
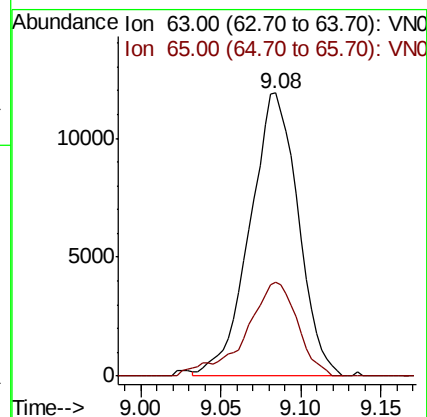
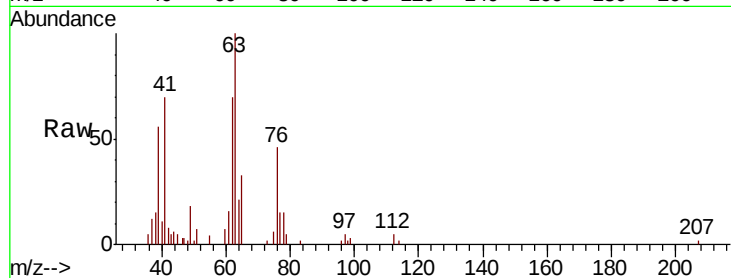
ClientSampled :

Tot Ion: 63 Resp: 24755

Ion Ratio Lower Upper

63 100

65 33.3 24.4 36.6



#40

Dibromomethane

Concen: 5.112 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

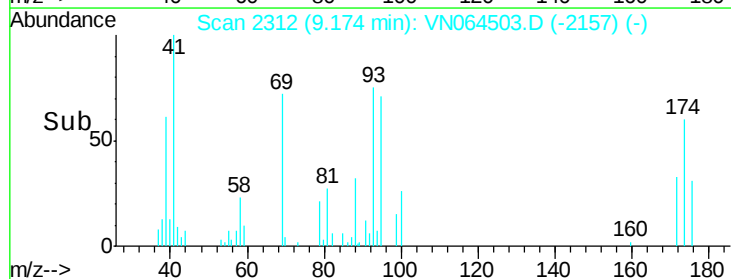
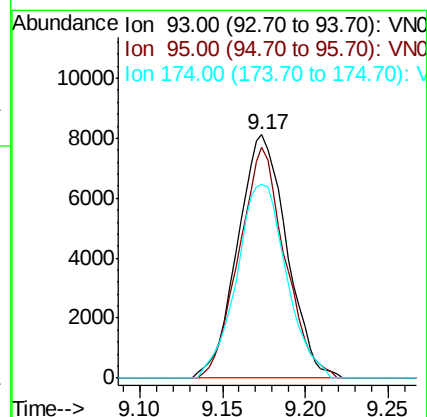
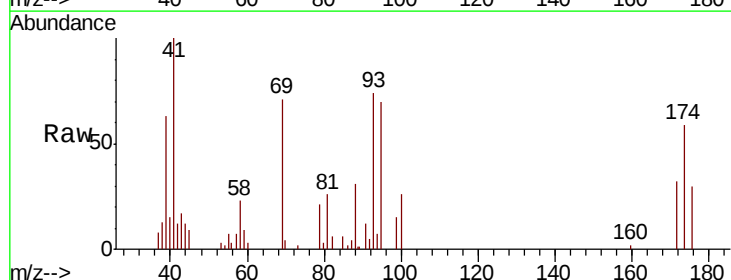
Tgt Ion: 93 Resp: 16695

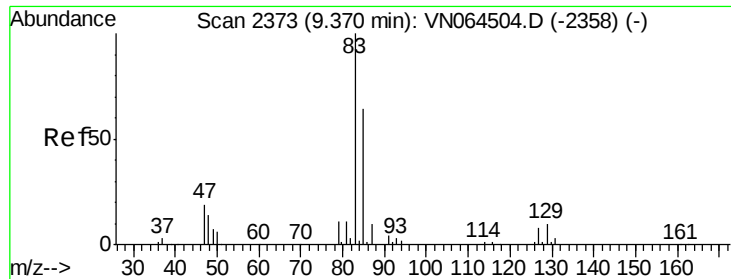
Ion Ratio Lower Upper

93 100

95 88.8 0.0 164.6

174 81.0 0.0 165.6





#41

Bromodichloromethane

Concen: 5.317 ug/l

RT: 9.37 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

ClientSampled :

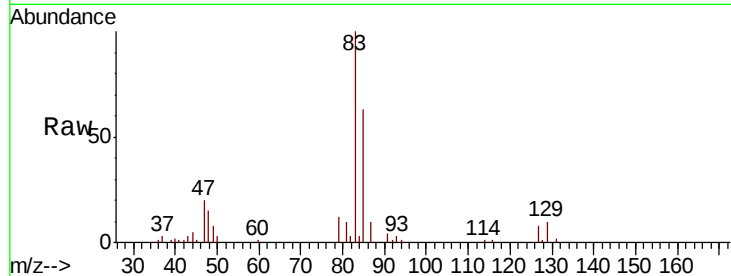
Tot Ion: 83 Resp: 36816

Ion Ratio Lower Upper

83 100

85 63.2 51.0 76.4

127 9.6 6.2 9.4#

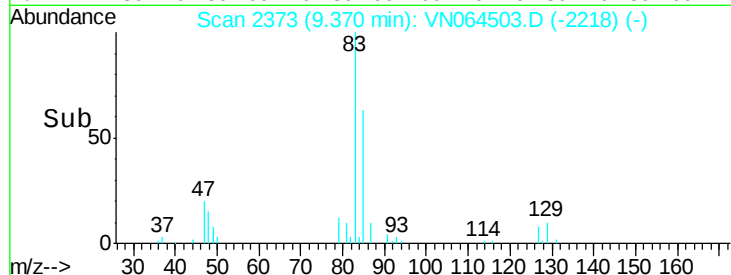


Abundance Ion 83.00 (82.70 to 83.70): VN064503.D (-2218) (-)

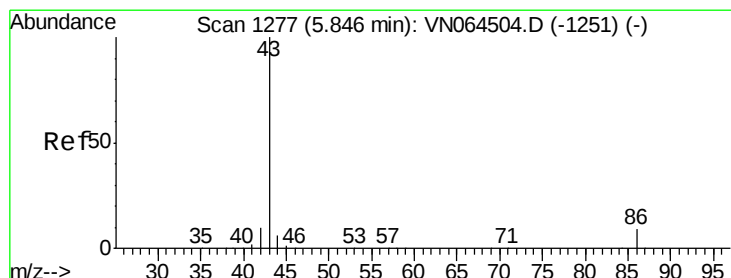
Ion 85.00 (84.70 to 85.70): VN064503.D (-2218) (-)

Ion 127.00 (126.70 to 127.70): VN064503.D (-2218) (-)

Time-->



Time-->



#42

Vinyl Acetate

Concen: 24.446 ug/l

RT: 5.85 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VN064503.D

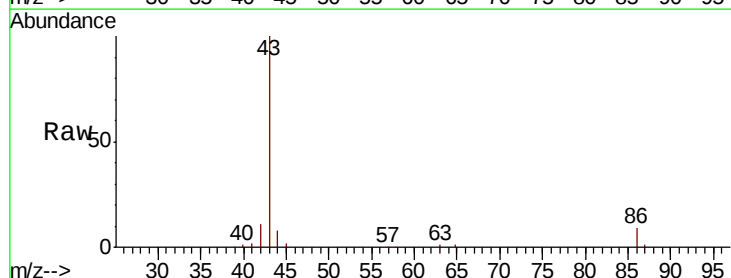
Acq: 9 Nov 2020 11:15

Tgt Ion: 43 Resp: 291730

Ion Ratio Lower Upper

43 100

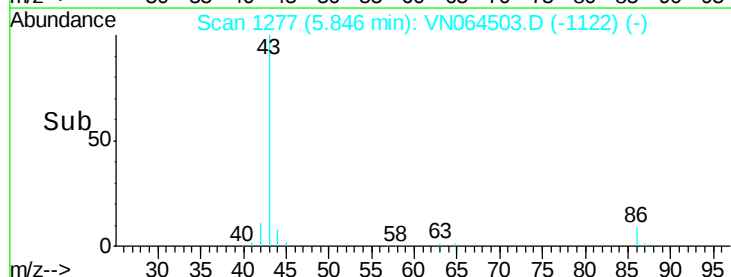
86 7.5 6.3 9.5



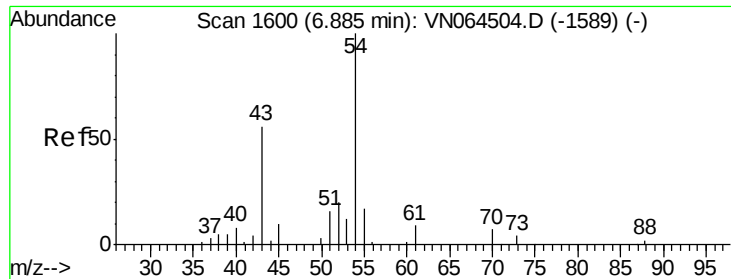
Abundance Ion 43.00 (42.70 to 43.70): VN064503.D (-1122) (-)

Ion 86.00 (85.70 to 86.70): VN064503.D (-1122) (-)

Time-->



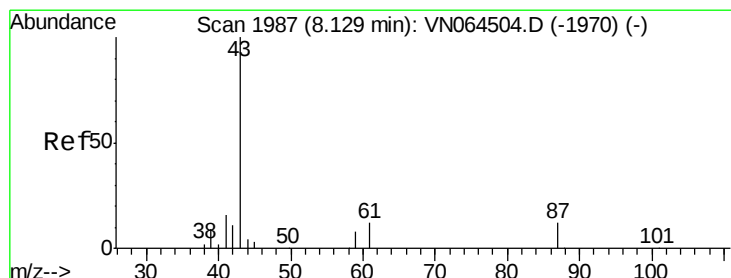
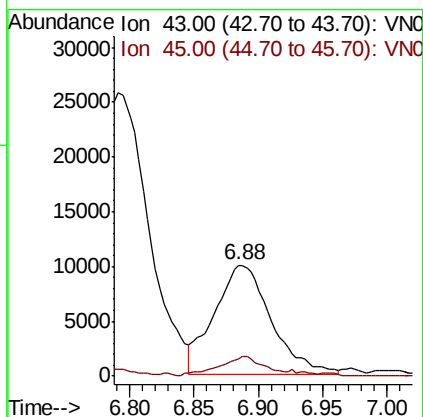
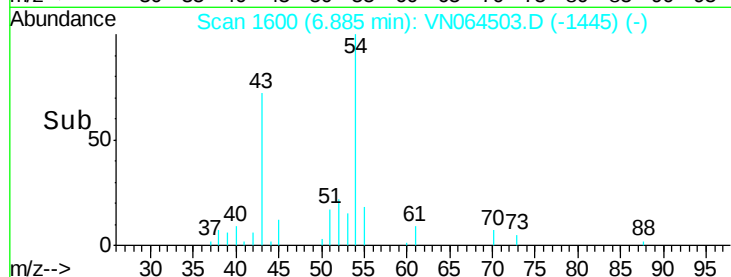
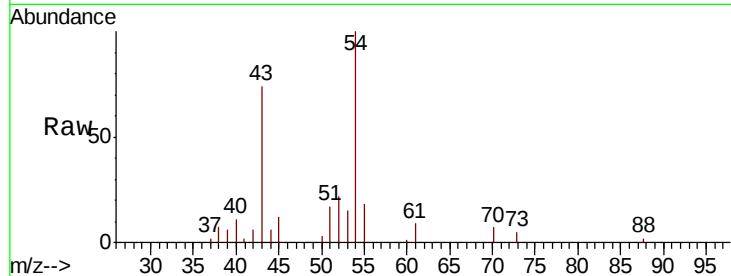
Time-->



#43  
Ethyl Acetate  
Concen: 5.505 ug/l  
RT: 6.88 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

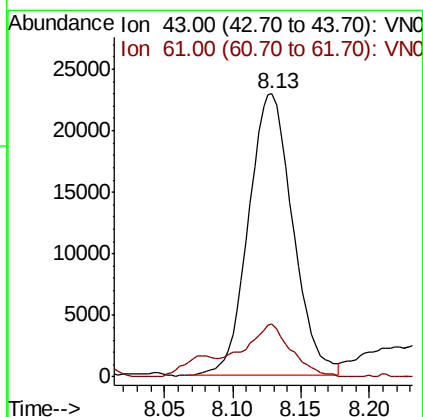
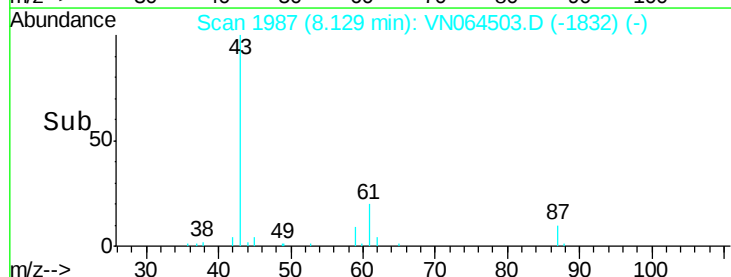
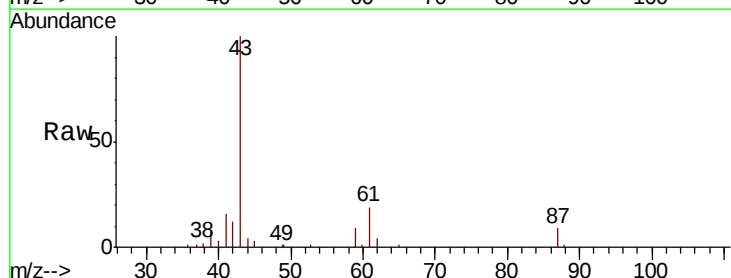
Instrument :  
MSVOA\_N  
ClientSampled :

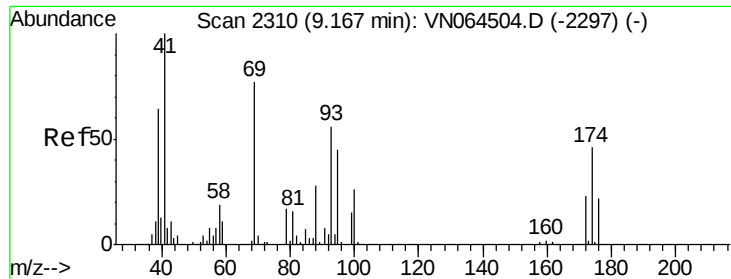
Tot Ion: 43 Resp: 30483  
Ion Ratio Lower Upper  
43 100  
45 14.5 10.9 16.3



#44  
Isopropyl Acetate  
Concen: 5.311 ug/l  
RT: 8.13 min Scan# 1987  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 43 Resp: 51432  
Ion Ratio Lower Upper  
43 100  
61 16.4 13.0 19.4

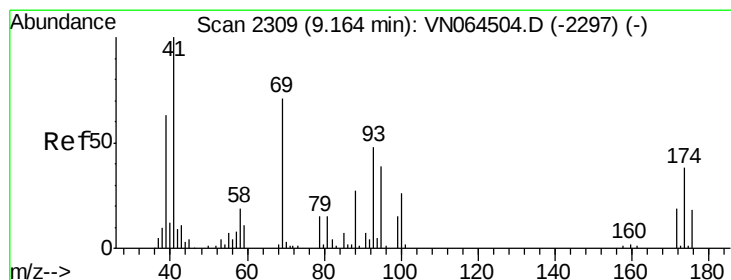
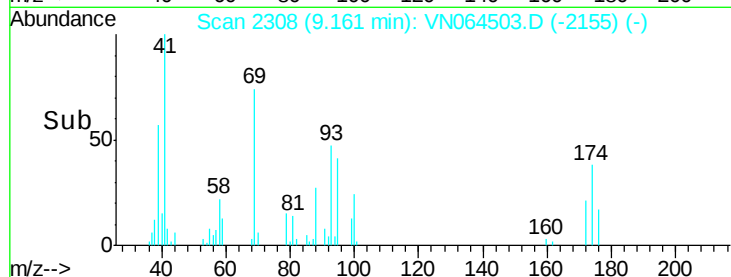
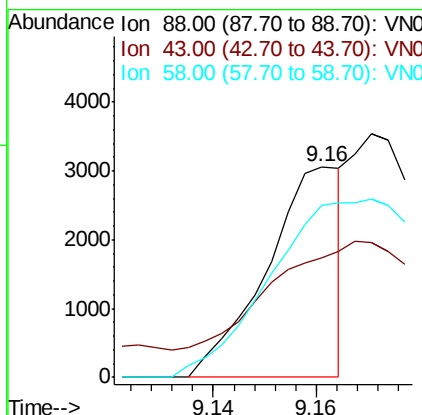
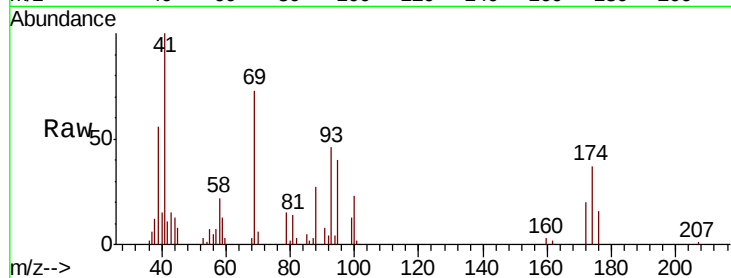




#45  
1,4-Dioxane  
Concen: 44.852 ug/l  
RT: 9.16 min Scan# 2308  
Delta R.T. -0.01 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

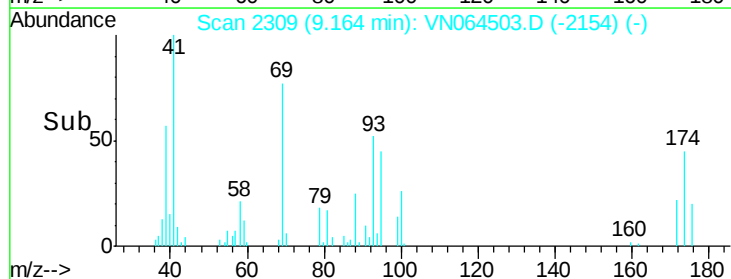
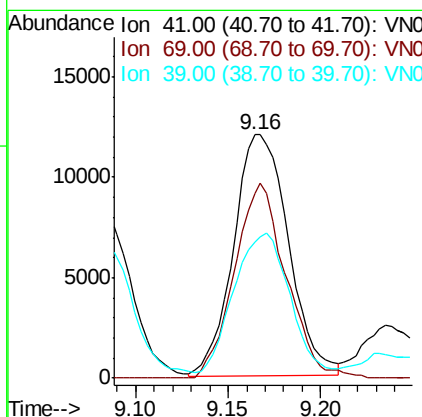
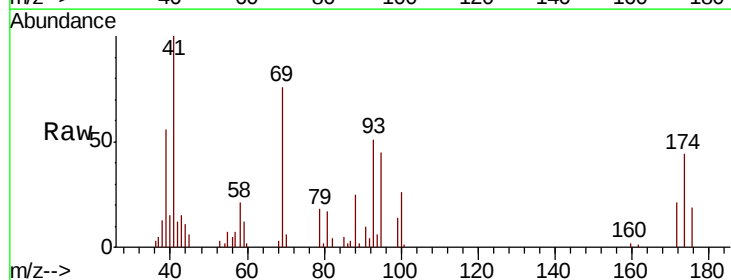
Instrument :  
MSVOA\_N  
ClientSampleId :

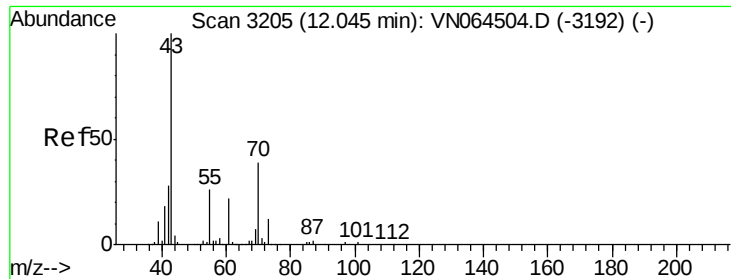
Tot Ion: 88 Resp: 3103  
Ion Ratio Lower Upper  
88 100  
43 112.0 30.6 46.0#  
58 0.0 57.9 86.9#



#46  
Methyl methacrylate  
Concen: 5.169 ug/l  
RT: 9.16 min Scan# 2309  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 41 Resp: 24734  
Ion Ratio Lower Upper  
41 100  
69 77.6 35.4 106.2  
39 54.2 31.6 94.7





#47

n-amvl Acetate

Concen: 4.226 ug/l

RT: 12.05 min Scan# 3205

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

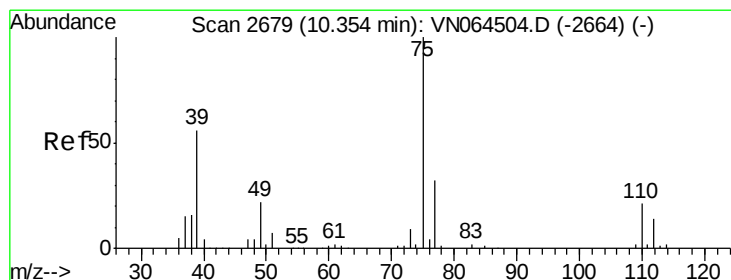
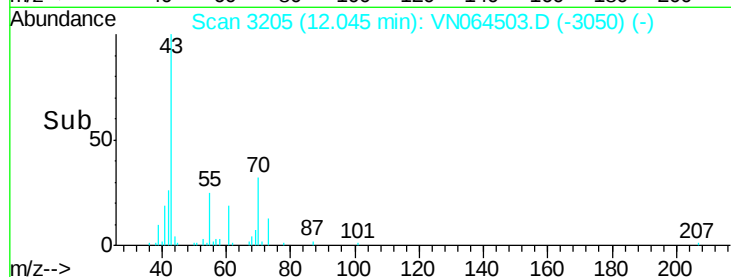
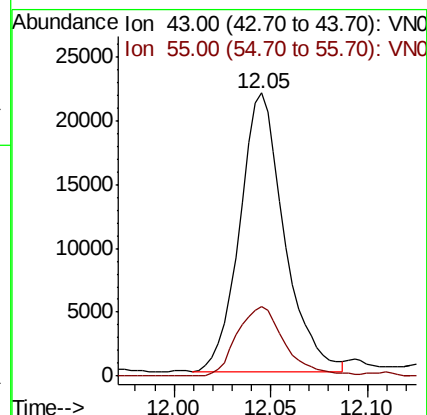
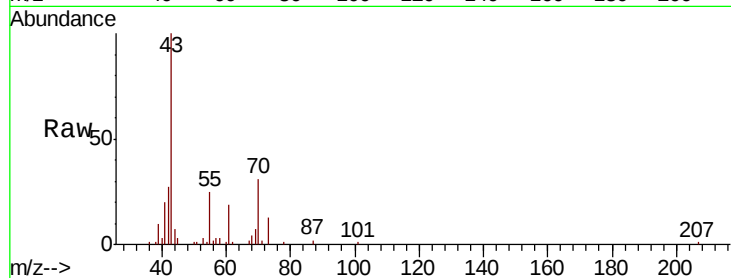
ClientSampleId :

Tot Ion: 43 Resp: 34893

Ion Ratio Lower Upper

43 100

55 26.7 19.2 28.8



#48

t-1,3-Dichloropropene

Concen: 4.612 ug/l

RT: 10.35 min Scan# 2678

Delta R.T. -0.00 min

Lab File: VN064503.D

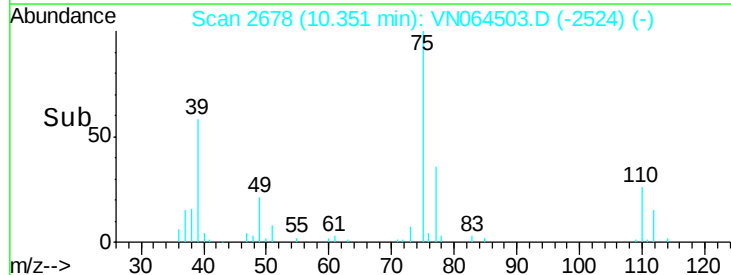
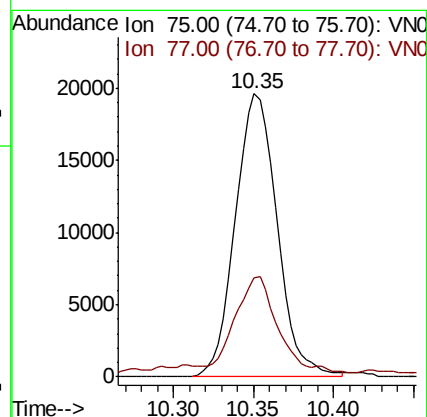
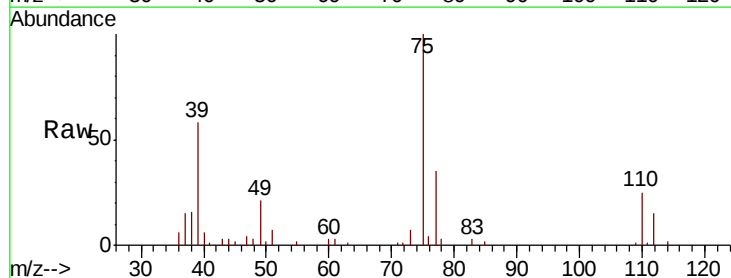
Acq: 9 Nov 2020 11:15

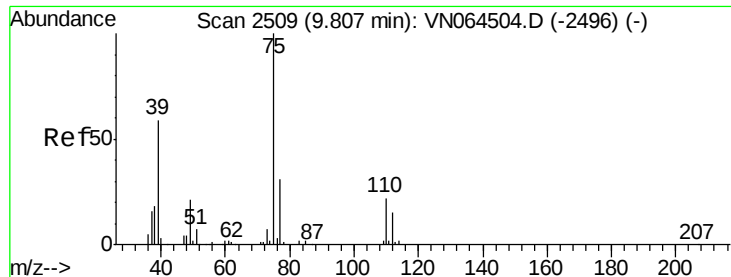
Tgt Ion: 75 Resp: 35035

Ion Ratio Lower Upper

75 100

77 33.2 25.8 38.6



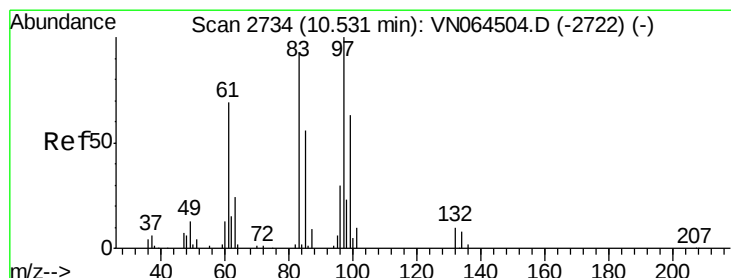
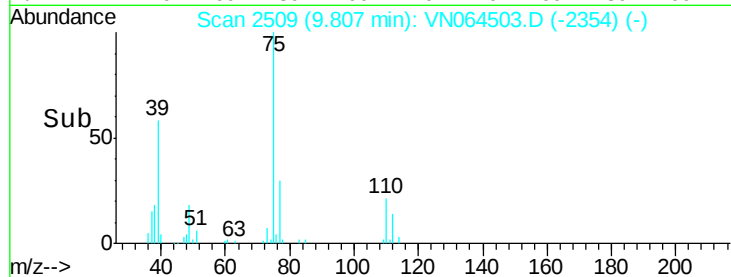
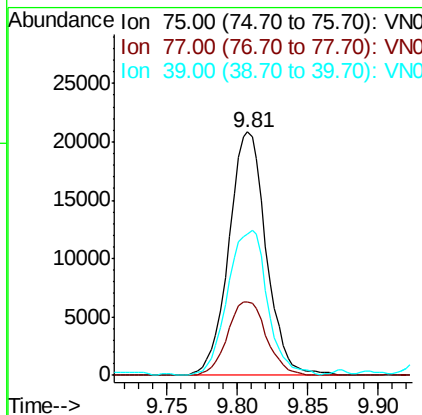
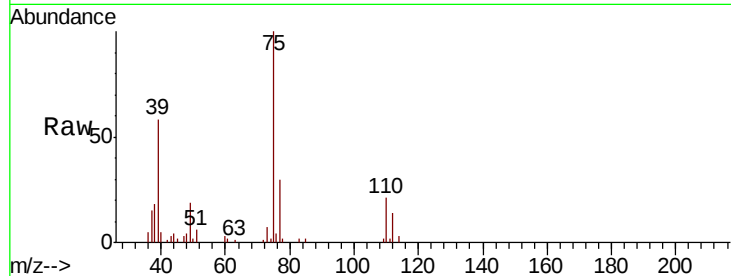


#49

cis-1,3-Dichloropropene  
 Concen: 4.930 ug/l  
 RT: 9.81 min Scan# 2509  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Instrument :  
 MSVOA\_N  
 ClientSampled :

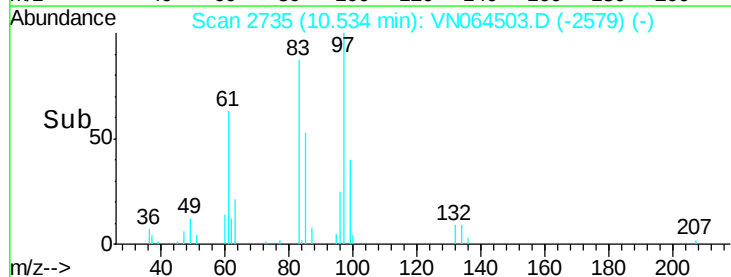
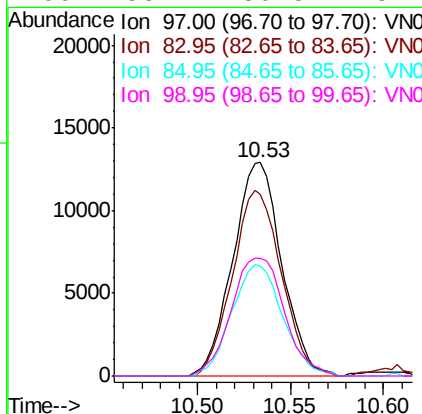
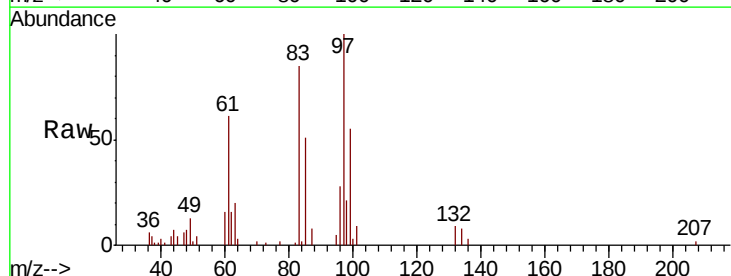
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 30.1  | 24.8  | 37.2  |
| 39      | 58.2  | 47.4  | 71.0  |

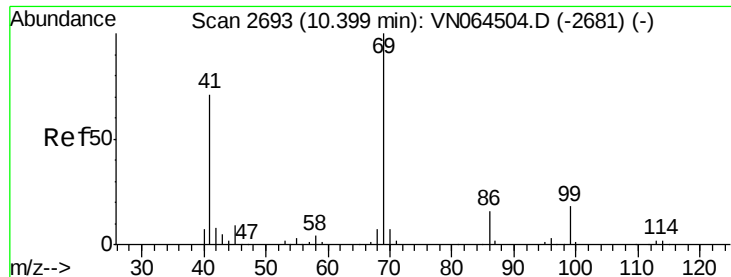


#50

1,1,2-Trichloroethane  
 Concen: 5.405 ug/l  
 RT: 10.53 min Scan# 2735  
 Delta R.T. 0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 84.8  | 74.2  | 111.4 |
| 85      | 51.4  | 44.8  | 67.2  |
| 99      | 55.4  | 50.5  | 75.7  |

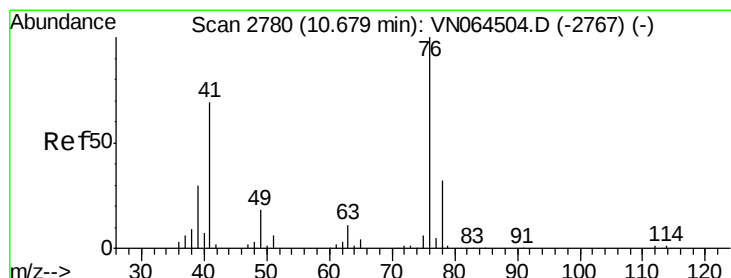
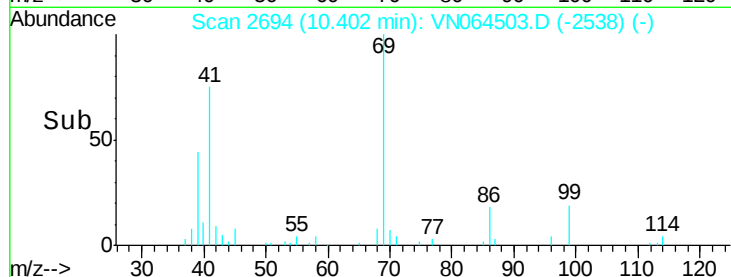
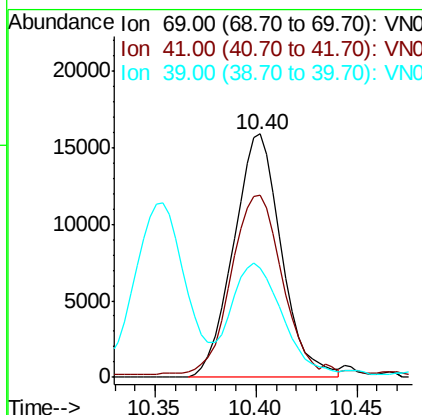
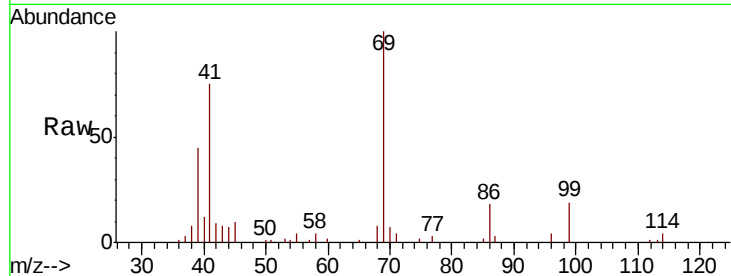




#51  
Ethyl methacrylate  
Concen: 4.212 ug/l  
RT: 10.40 min Scan# 2694  
Delta R.T. 0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

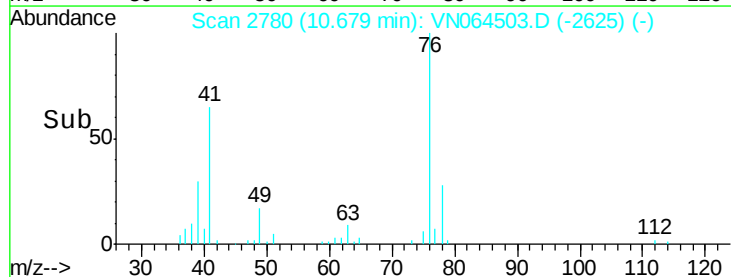
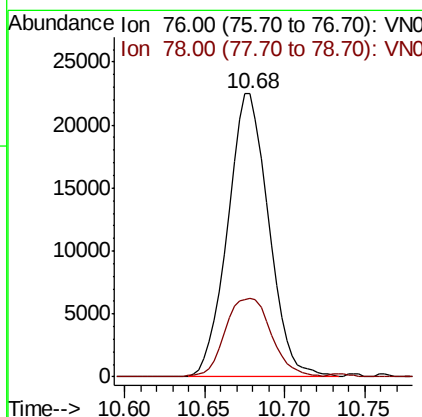
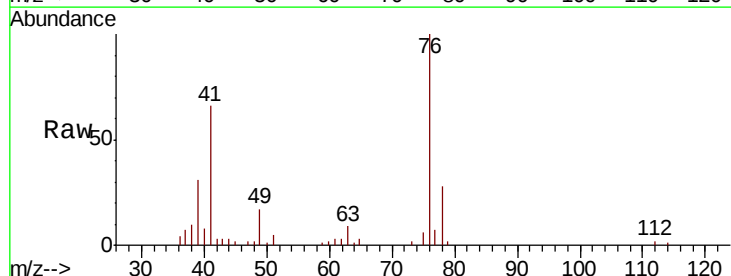
Instrument :  
MSVOA\_N  
ClientSampleId :

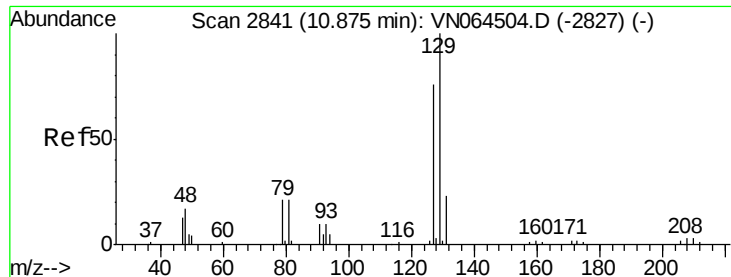
Tot Ion: 69 Resp: 26429  
Ion Ratio Lower Upper  
69 100  
41 72.7 35.4 106.1  
39 42.7 24.1 72.2



#52  
1,3-Dichloropropane  
Concen: 5.344 ug/l  
RT: 10.68 min Scan# 2780  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 76 Resp: 39392  
Ion Ratio Lower Upper  
76 100  
78 31.4 0.0 65.2

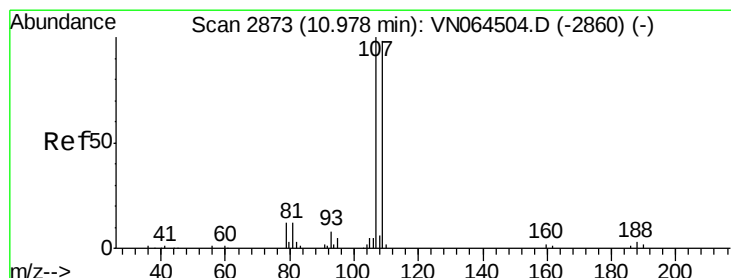
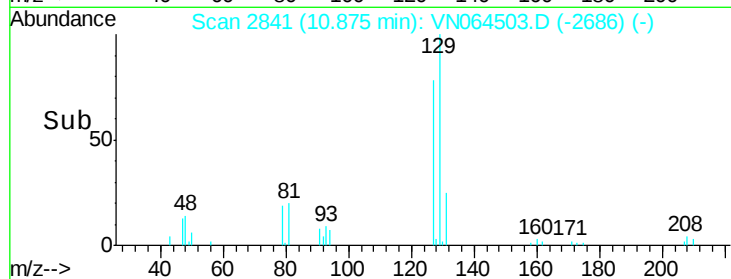
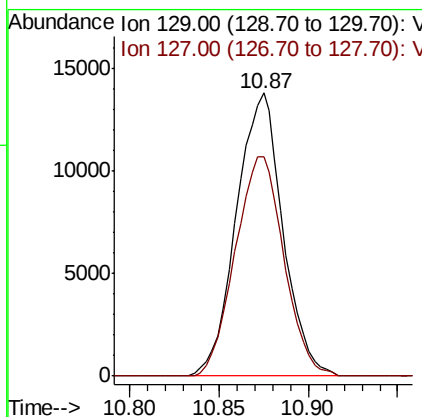
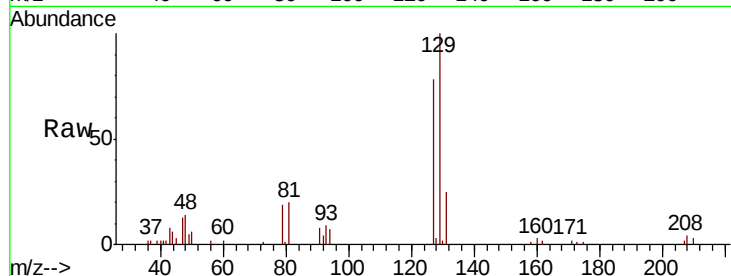




#53  
 Dibromochloromethane  
 Concen: 4.709 ug/l  
 RT: 10.87 min Scan# 2841  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

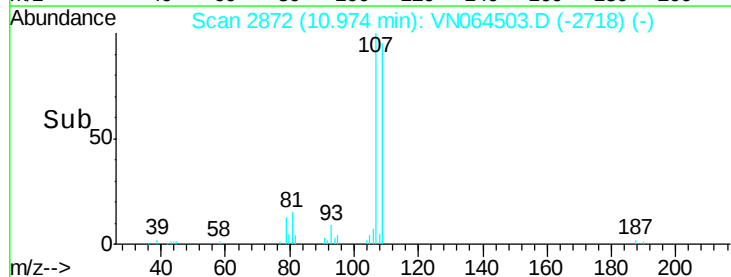
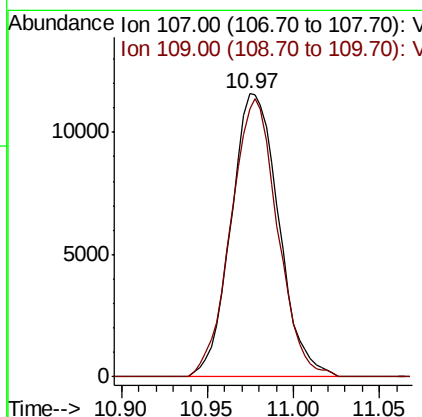
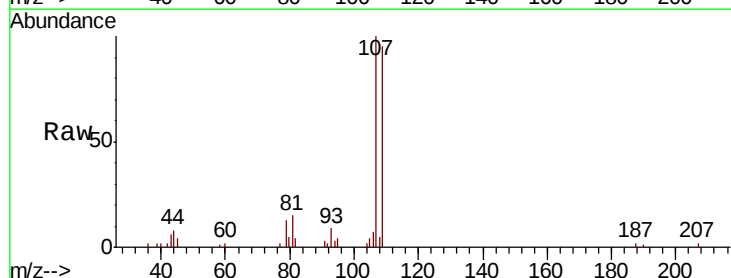
Instrument :  
 MSVOA\_N  
 ClientSampleId :

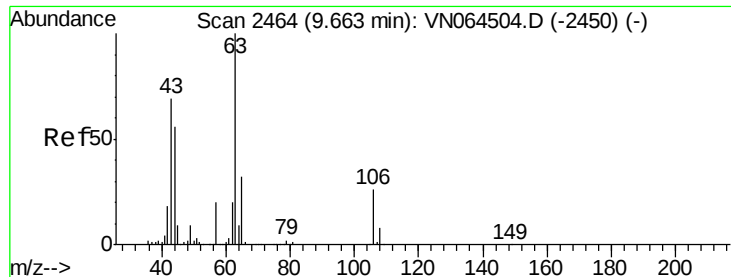
Tot Ion:129 Resp: 25157  
 Ion Ratio Lower Upper  
 129 100  
 127 81.2 39.1 117.2



#54  
 1,2-Dibromoethane  
 Concen: 4.806 ug/l  
 RT: 10.97 min Scan# 2872  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion:107 Resp: 22281  
 Ion Ratio Lower Upper  
 107 100  
 109 95.9 77.2 115.8

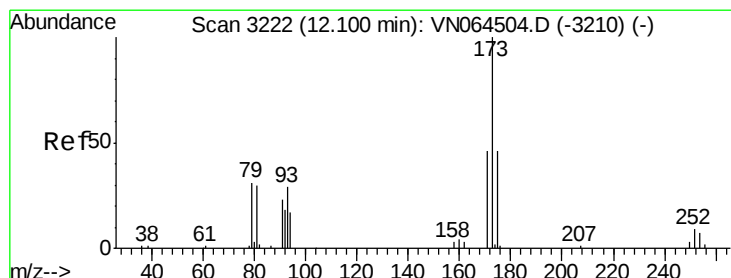
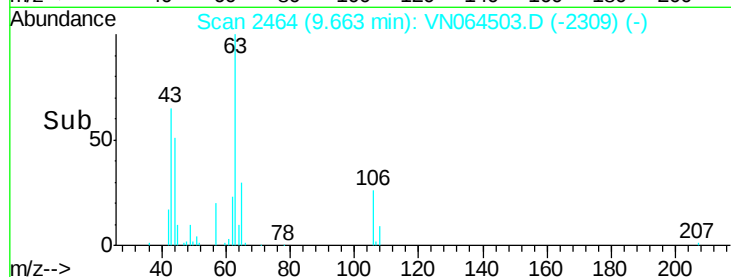
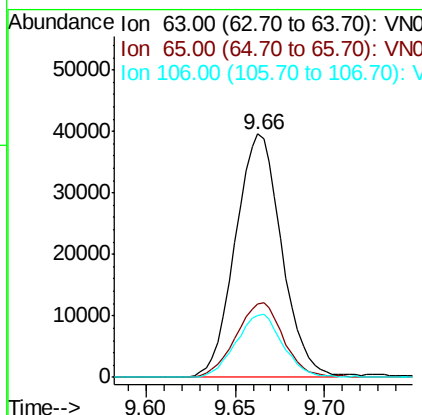
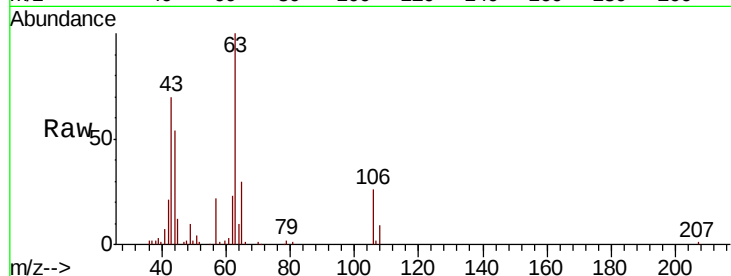




#55  
2-Chloroethyl vinyl ether  
Concen: 21.011 ug/l  
RT: 9.66 min Scan# 2464  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

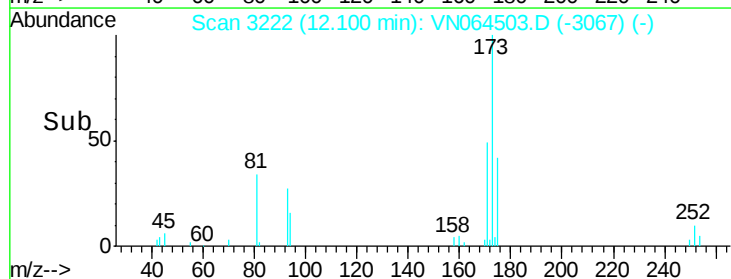
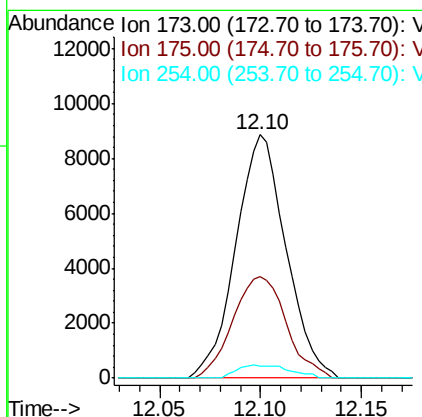
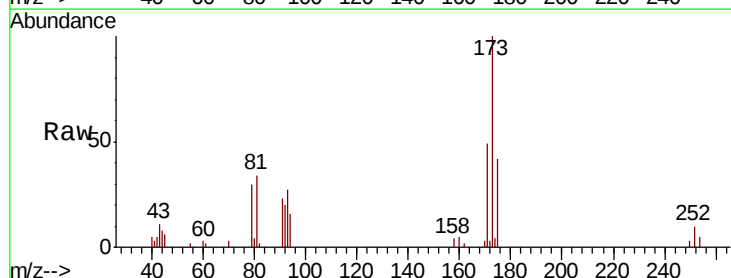
Instrument :  
MSVOA\_N  
ClientSampled :

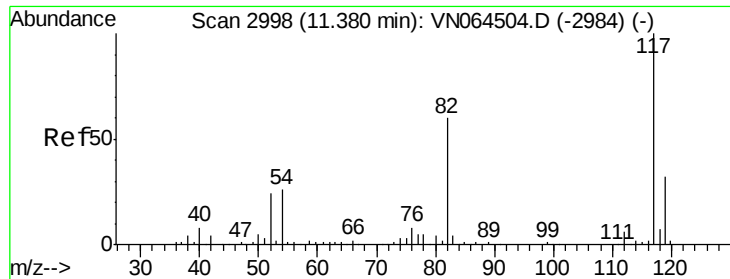
Tot Ion: 63 Resp: 71811  
Ion Ratio Lower Upper  
63 100  
65 31.2 25.7 38.5  
106 26.0 19.9 29.9



#56  
Bromoform  
Concen: 4.113 ug/l  
RT: 12.10 min Scan# 3222  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 173 Resp: 15418  
Ion Ratio Lower Upper  
173 100  
175 44.3 37.1 55.7  
254 5.7 5.4 8.2

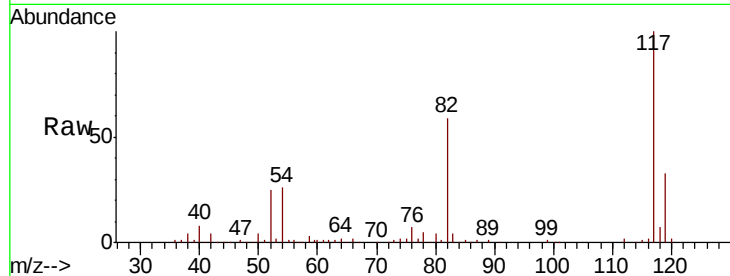




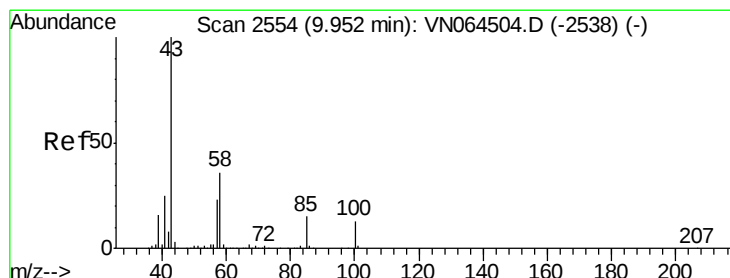
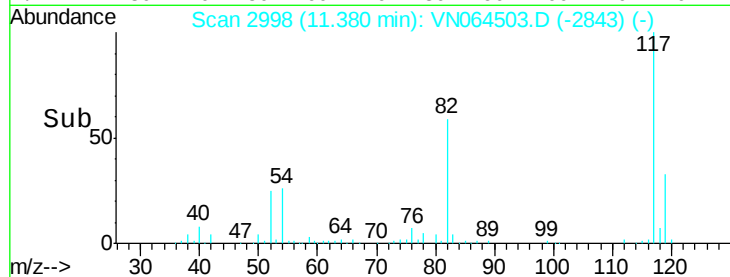
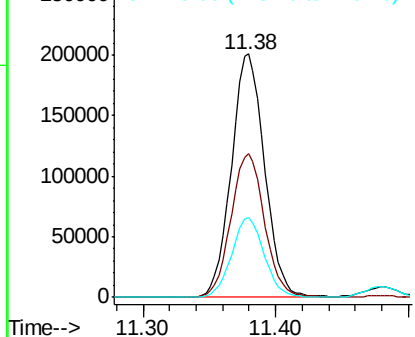
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 349104  
Ion Ratio Lower Upper  
117 100  
82 59.8 47.8 71.8  
119 32.0 25.7 38.5

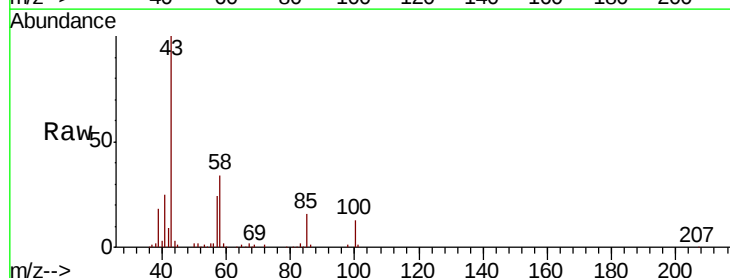


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 119.00 (118.70 to 119.70): V

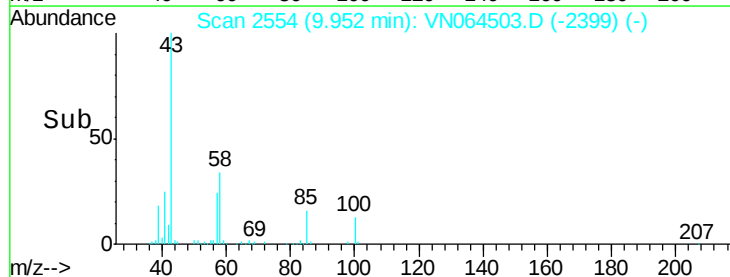
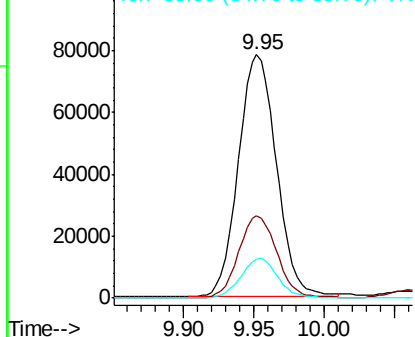


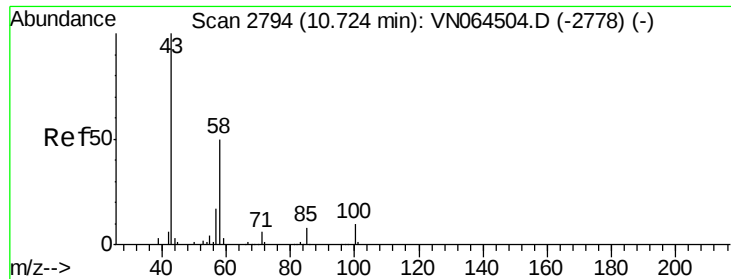
#58  
4-Methyl-2-Pentanone  
Concen: 26.139 ug/l  
RT: 9.95 min Scan# 2554  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 43 Resp: 147887  
Ion Ratio Lower Upper  
43 100  
58 34.3 28.8 43.2  
85 16.0 12.3 18.5



Abundance Ion 43.00 (42.70 to 43.70): VN  
Ion 58.00 (57.70 to 58.70): VN  
Ion 85.00 (84.70 to 85.70): VN

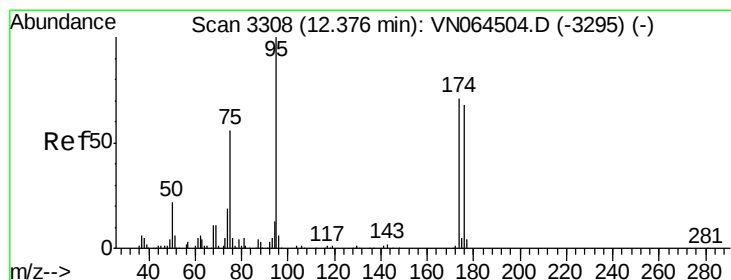
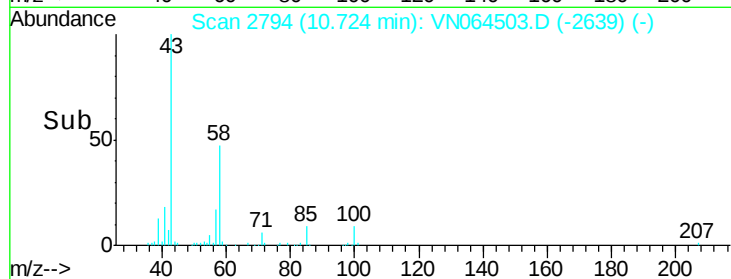
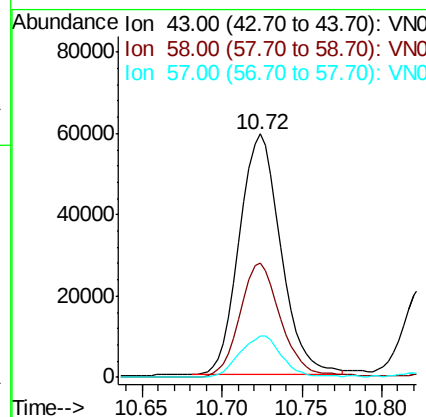
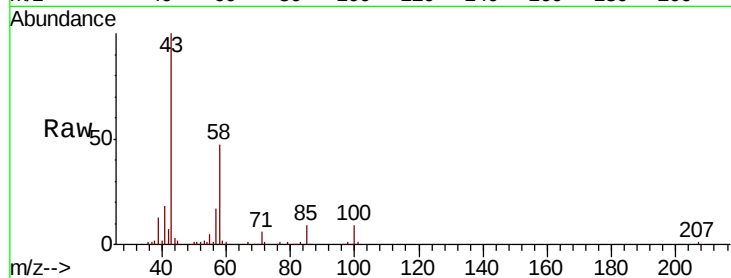




#59  
2-Hexanone  
Concen: 25.144 ug/l  
RT: 10.72 min Scan# 2794  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

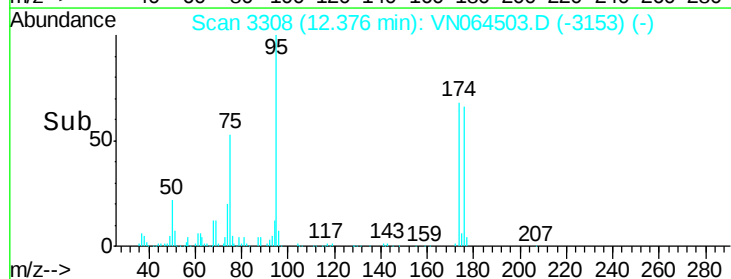
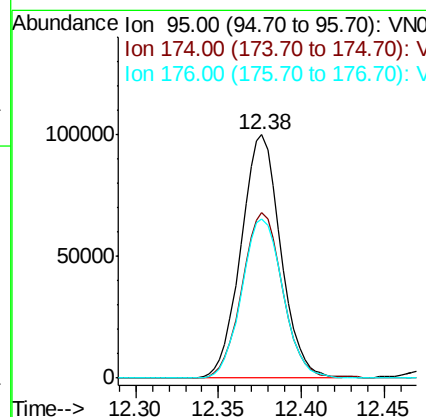
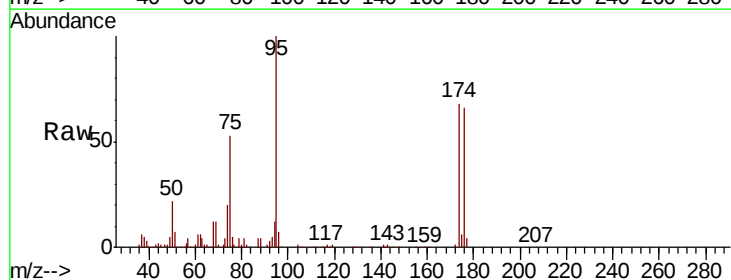
Instrument :  
MSVOA\_N  
ClientSampleId :

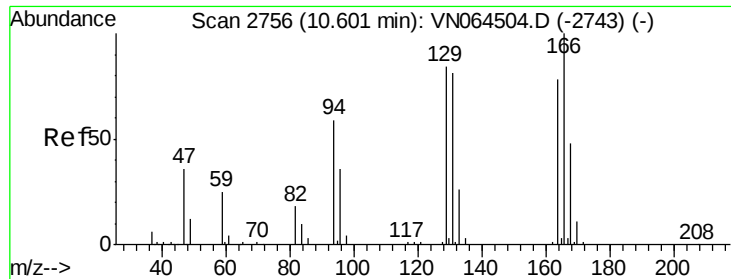
Tot Ion: 43 Resp: 105569  
Ion Ratio Lower Upper  
43 100  
58 47.5 38.2 57.4  
57 17.2 13.8 20.8



#60  
4-Bromofluorobenzene  
Concen: 28.067 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 95 Resp: 166694  
Ion Ratio Lower Upper  
95 100  
174 69.5 56.4 84.6  
176 67.7 53.3 79.9





#61

Tetrachloroethene

Concen: 4.944 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion:164 Resp: 23004

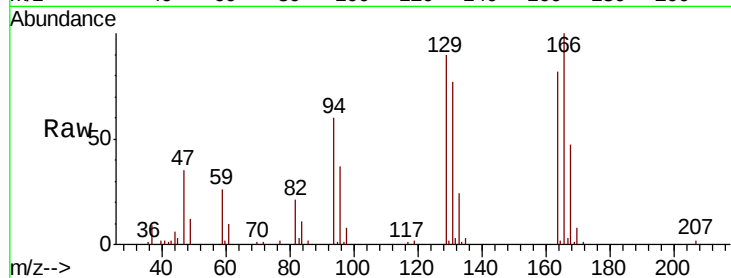
Ion Ratio Lower Upper

164 100

166 122.4 103.2 154.8

129 109.1 86.4 129.6

131 94.3 84.0 126.0

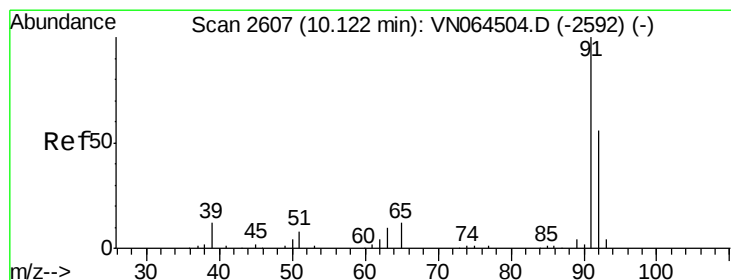
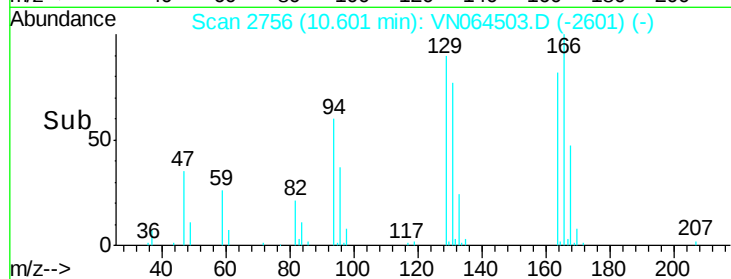
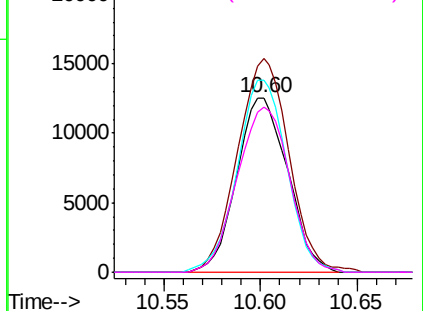


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 5.149 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064503.D

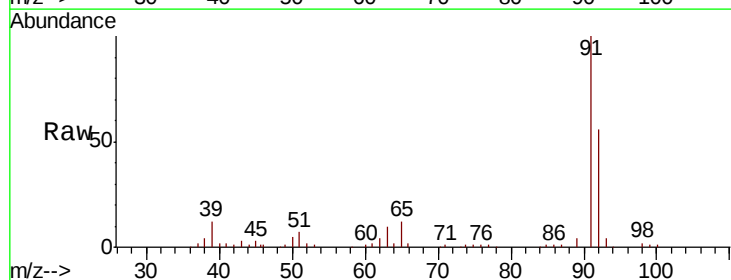
Acq: 9 Nov 2020 11:15

Tgt Ion: 91 Resp: 101349

Ion Ratio Lower Upper

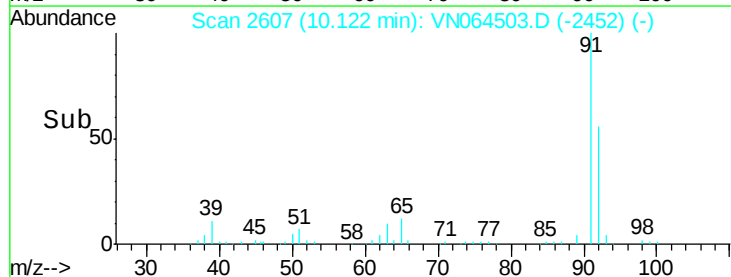
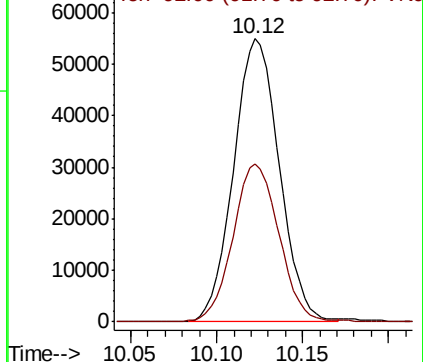
91 100

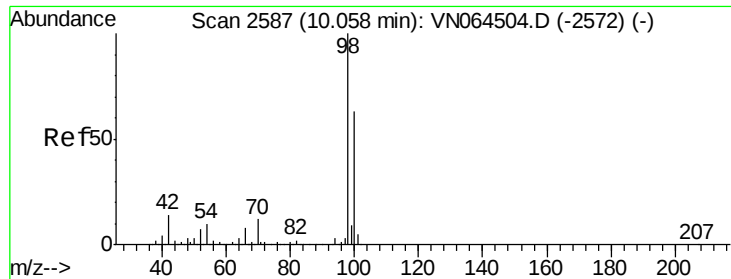
92 56.1 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 31.454 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

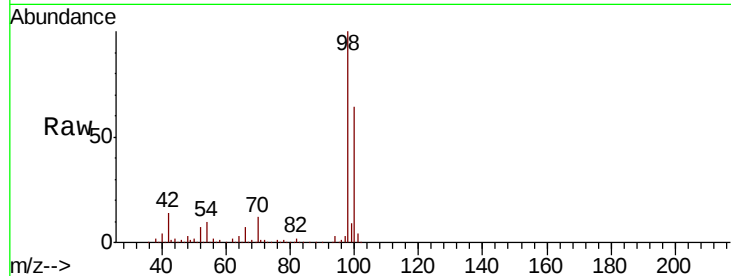
ClientSampled :

Tot Ion: 98 Resp: 497442

Ion Ratio Lower Upper

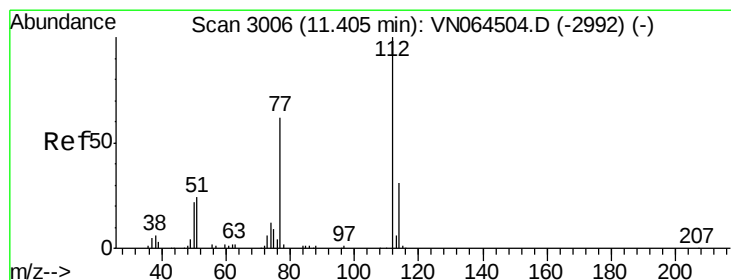
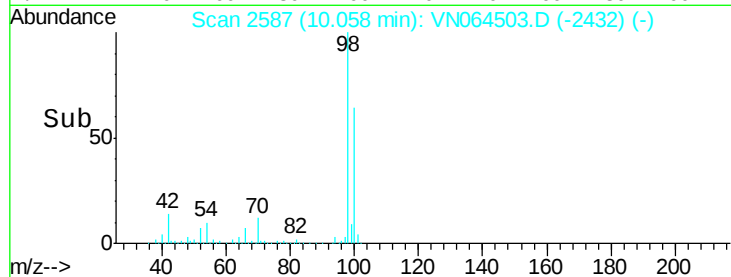
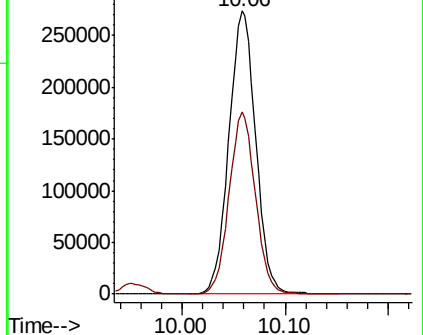
98 100

100 62.8 49.4 74.2



Abundance Ion 98.00 (97.70 to 98.70): VN064503.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064503.D (-2572) (-)



#64

Chlorobenzene

Concen: 4.800 ug/l

RT: 11.40 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VN064503.D

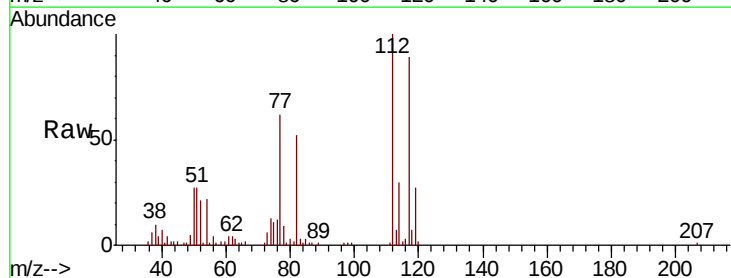
Acq: 9 Nov 2020 11:15

Tgt Ion: 112 Resp: 58519

Ion Ratio Lower Upper

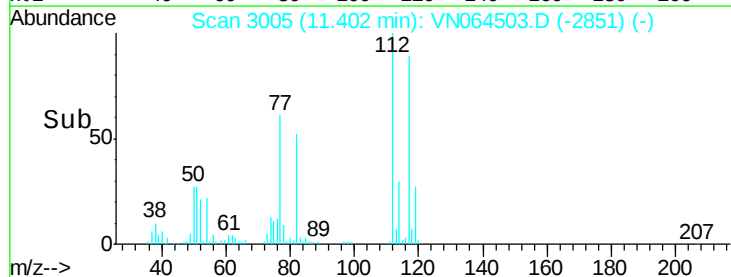
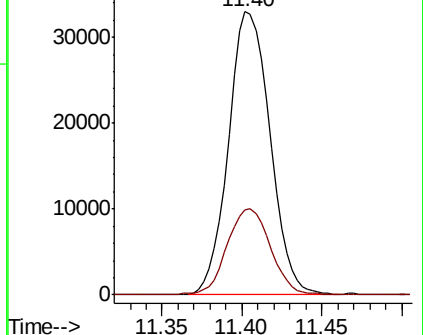
112 100

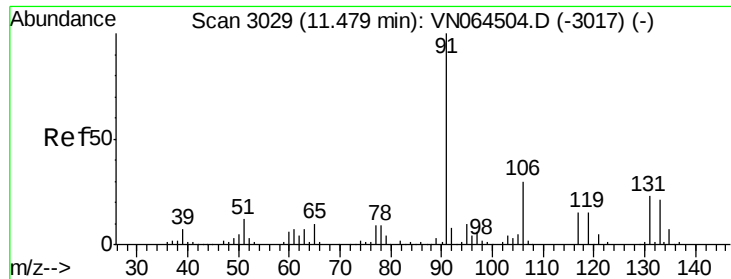
114 30.2 25.0 37.6



Abundance Ion 112.00 (111.70 to 112.70): VN064503.D (-2851) (-)

Ion 114.00 (113.70 to 114.70): VN064503.D (-2851) (-)

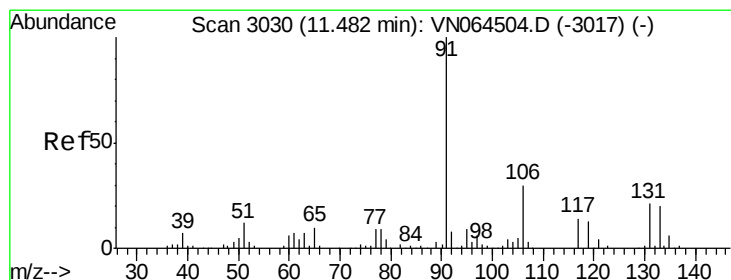
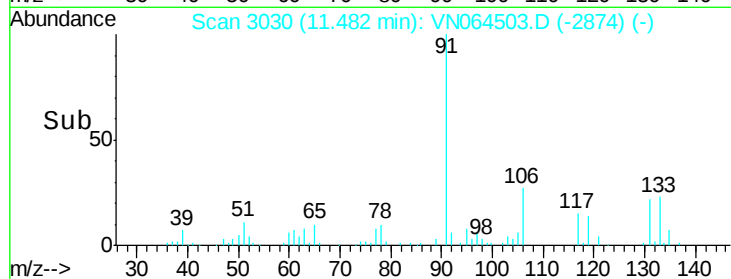
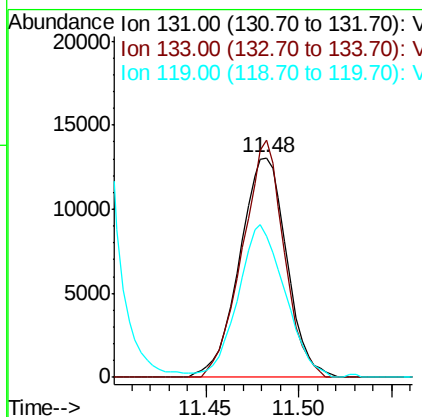
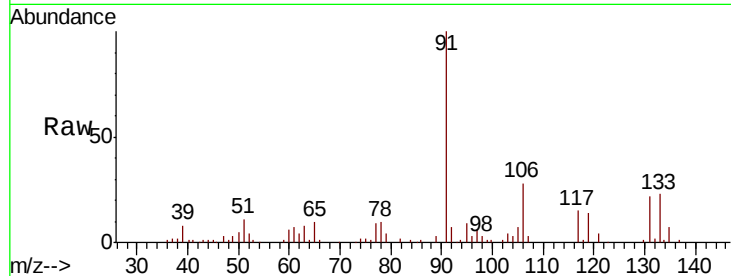




#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 4.849 ug/l  
 RT: 11.48 min Scan# 3030  
 Delta R.T. 0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

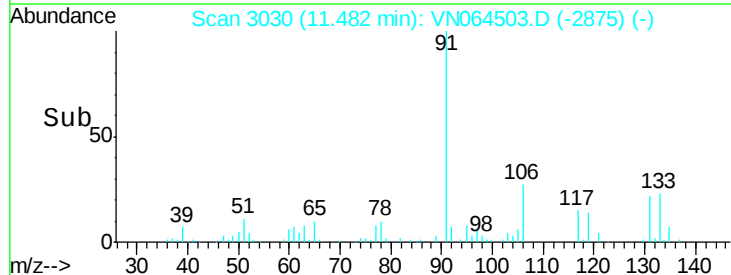
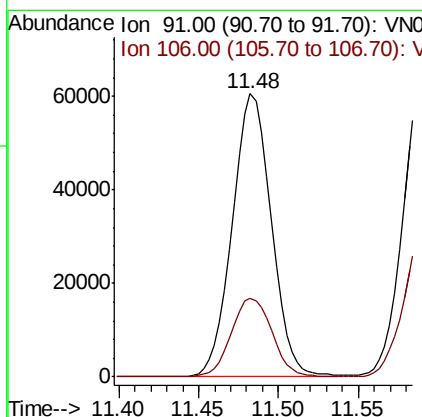
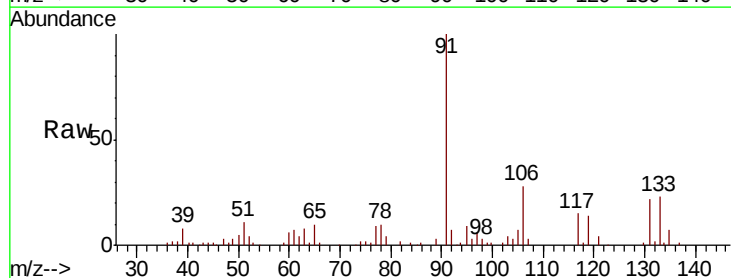
Instrument :  
 MSVOA\_N  
 ClientSampleId :

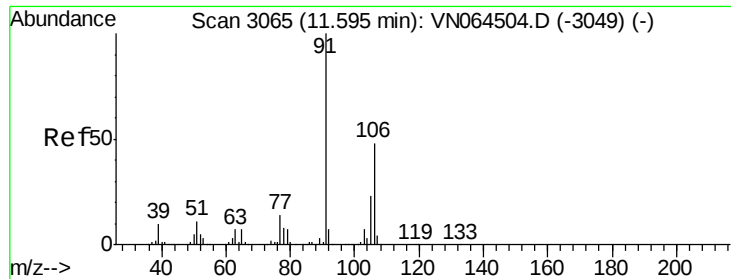
Tot Ion:131 Resp: 22920  
 Ion Ratio Lower Upper  
 131 100  
 133 96.1 0.0 191.2  
 119 69.9 0.0 131.6



#66  
 Ethyl Benzene  
 Concen: 4.678 ug/l  
 RT: 11.48 min Scan# 3030  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion: 91 Resp: 100524  
 Ion Ratio Lower Upper  
 91 100  
 106 28.0 23.9 35.9

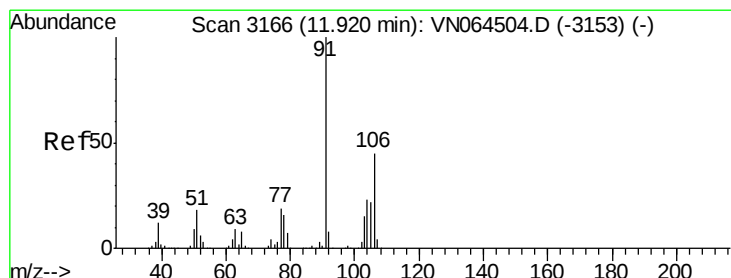
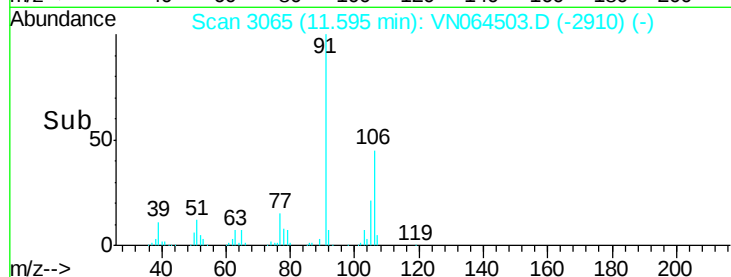
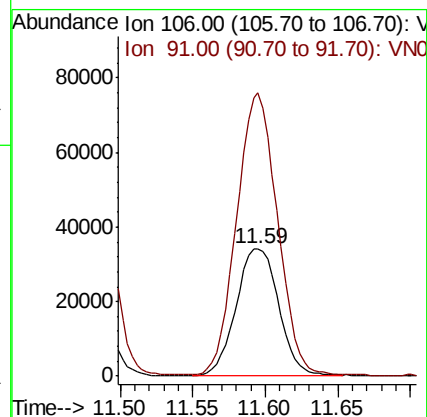
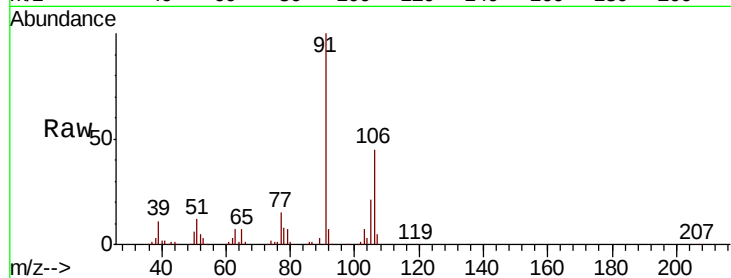




#67  
m/p-Xylenes  
Concen: 8.722 ug/l  
RT: 11.59 min Scan# 3065  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

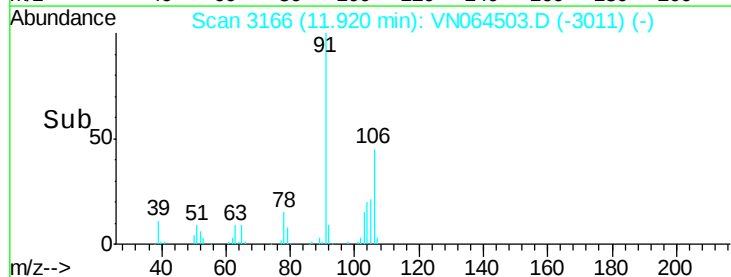
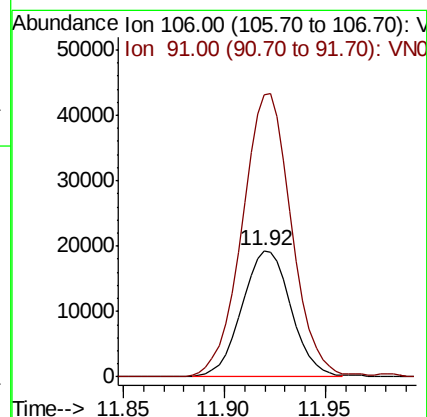
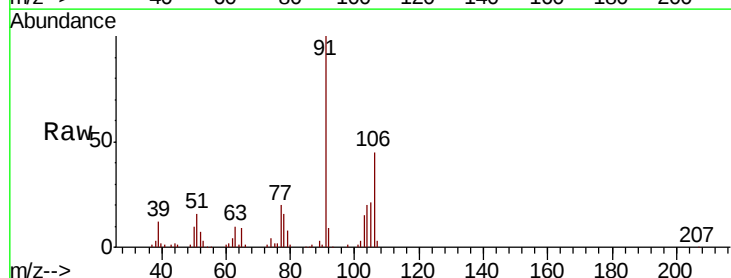
Instrument :  
MSVOA\_N  
ClientSampled :

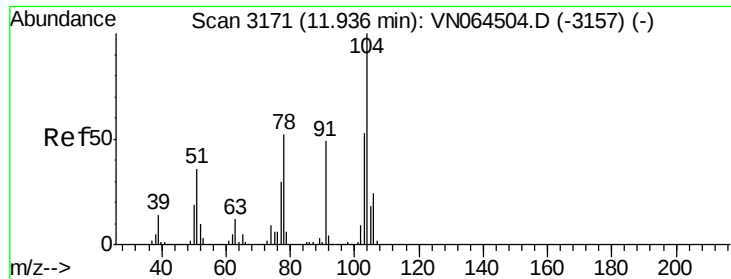
Tot Ion:106 Resp: 70545  
Ion Ratio Lower Upper  
106 100  
91 212.5 168.8 253.2



#68  
o-Xylene  
Concen: 4.247 ug/l  
RT: 11.92 min Scan# 3166  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion:106 Resp: 32941  
Ion Ratio Lower Upper  
106 100  
91 225.0 109.7 329.2

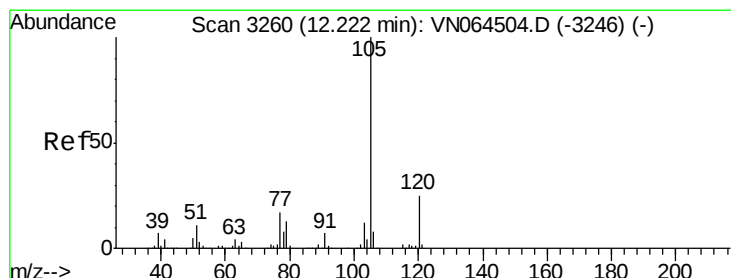
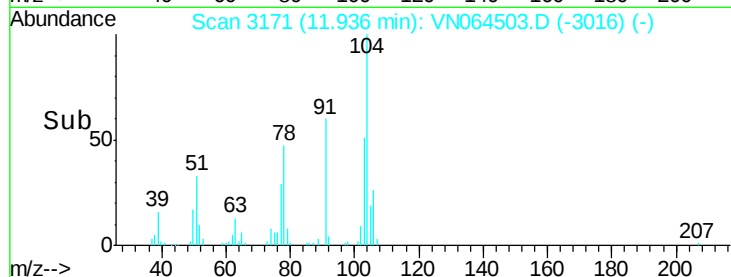
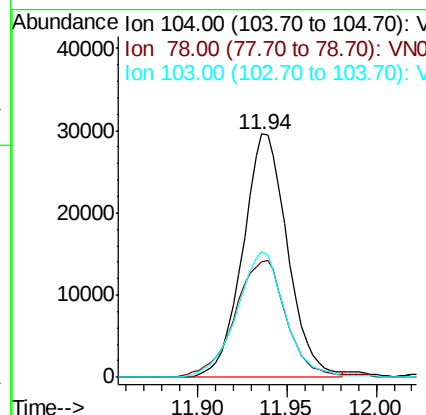
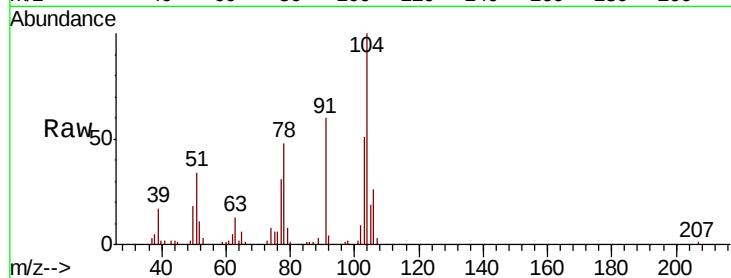




#69  
Stvrene  
Concen: 3.993 ug/l  
RT: 11.94 min Scan# 3171  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

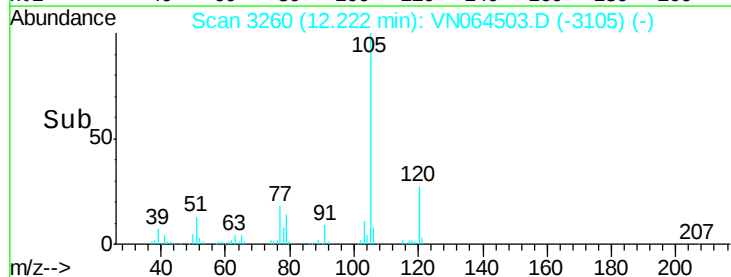
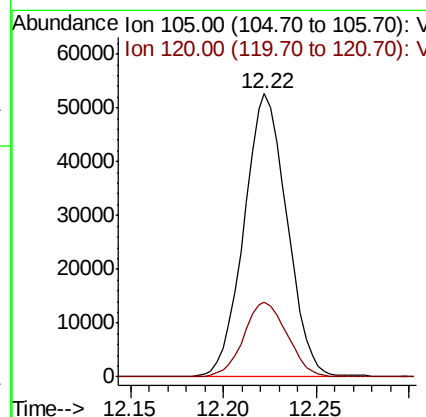
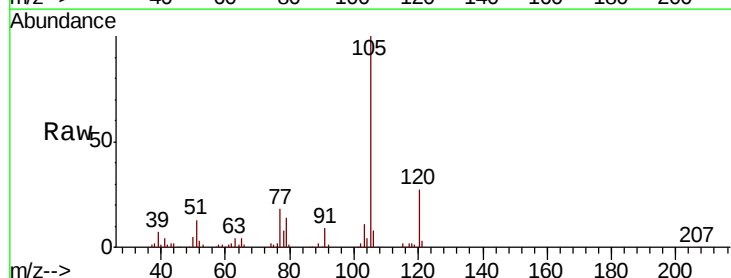
Instrument :  
MSVOA\_N  
ClientSampled :

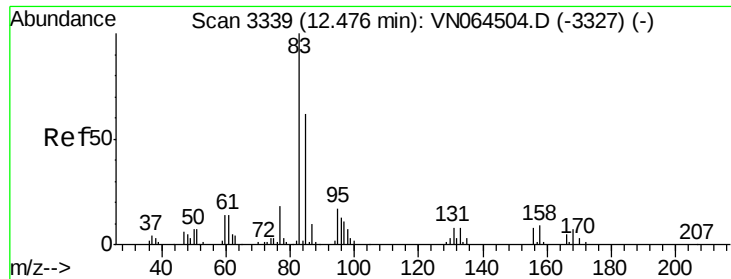
Tot Ion:104 Resp: 51991  
Ion Ratio Lower Upper  
104 100  
78 55.1 44.4 66.6  
103 55.5 44.6 67.0



#70  
Isopropylbenzene  
Concen: 4.208 ug/l  
RT: 12.22 min Scan# 3260  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion:105 Resp: 84603  
Ion Ratio Lower Upper  
105 100  
120 26.8 17.9 33.3

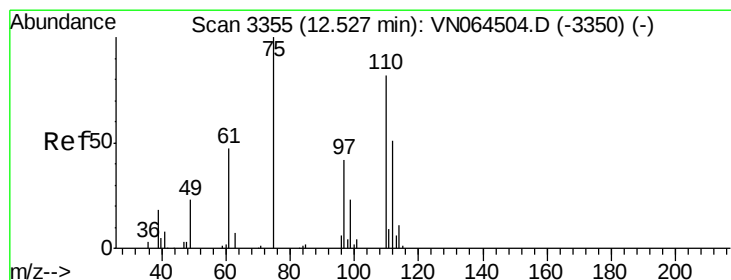
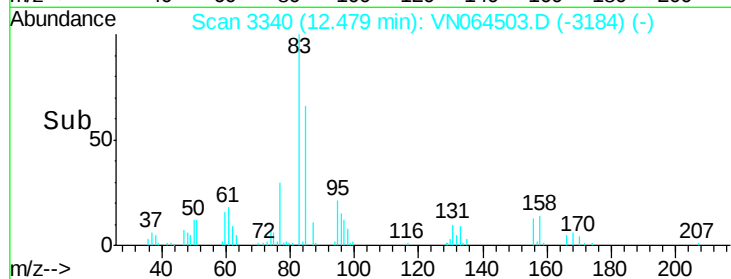
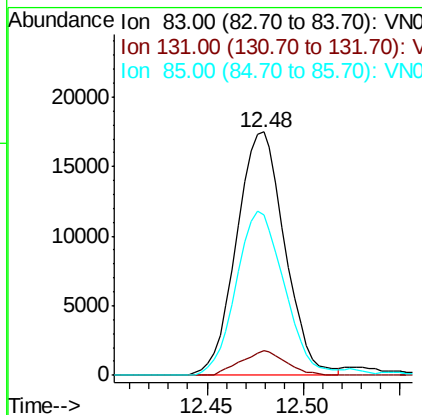
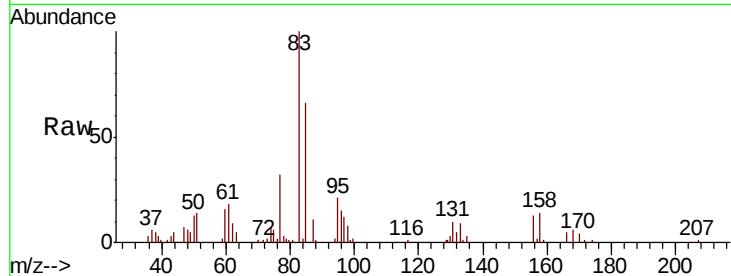




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 5.295 ug/l  
 RT: 12.48 min Scan# 3340  
 Delta R.T. 0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

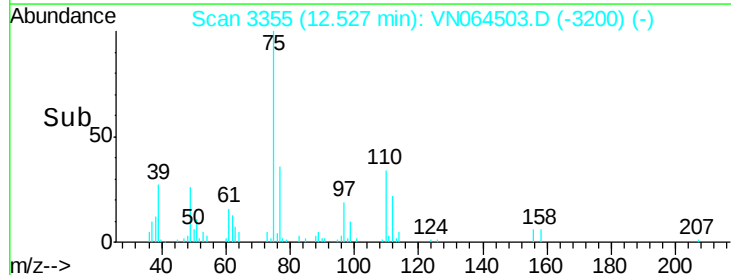
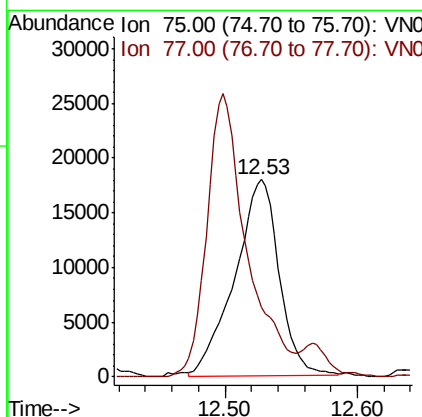
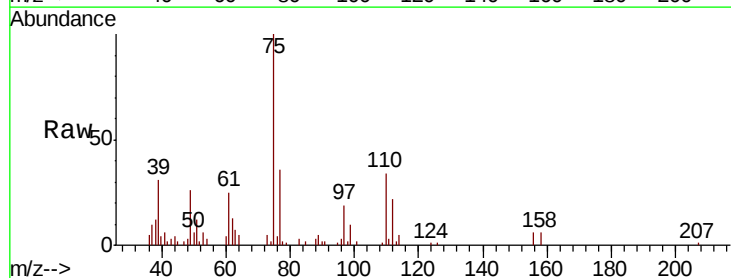
Instrument :  
 MSVOA\_N  
 ClientSampled :

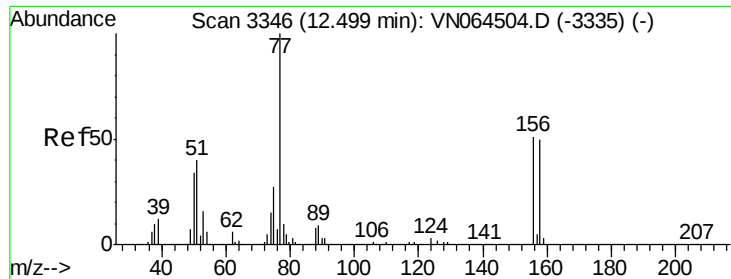
Tot Ion: 83 Resp: 30394  
 Ion Ratio Lower Upper  
 83 100  
 131 9.4 4.6 13.8  
 85 67.2 31.4 94.0



#72  
 1,2,3-Trichloropropane  
 Concen: 7.047 ug/l  
 RT: 12.53 min Scan# 3355  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion: 75 Resp: 41682  
 Ion Ratio Lower Upper  
 75 100  
 77 130.1 0.0 379.4

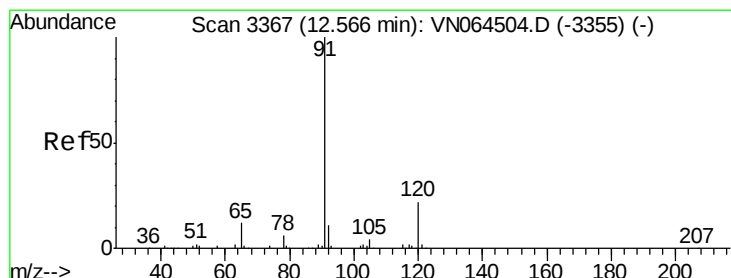
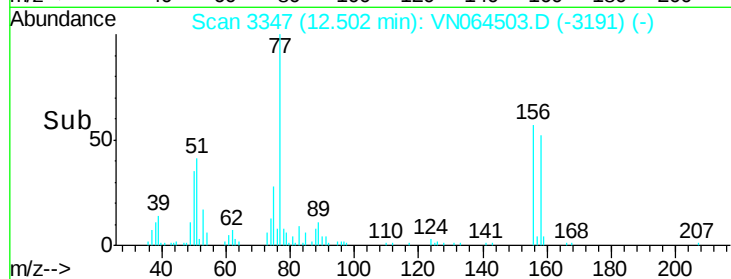
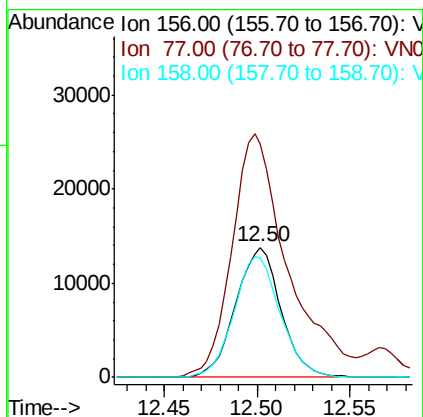
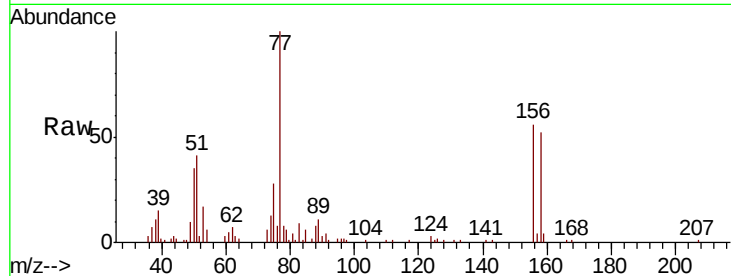




#73  
Bromobenzene  
Concen: 4.551 ug/l  
RT: 12.50 min Scan# 3347  
Delta R.T. 0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

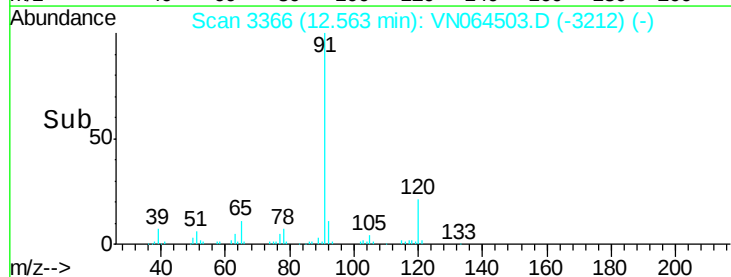
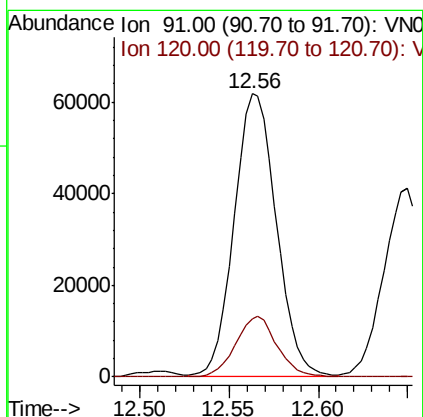
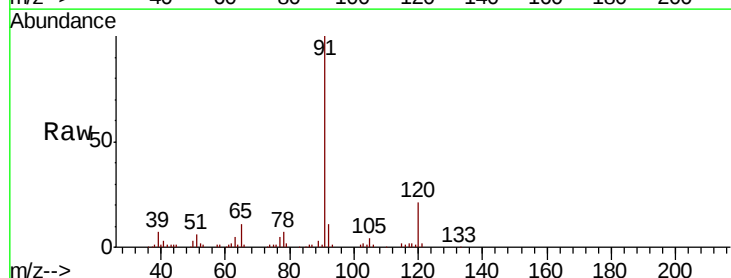
Instrument :  
MSVOA\_N  
ClientSampleId :

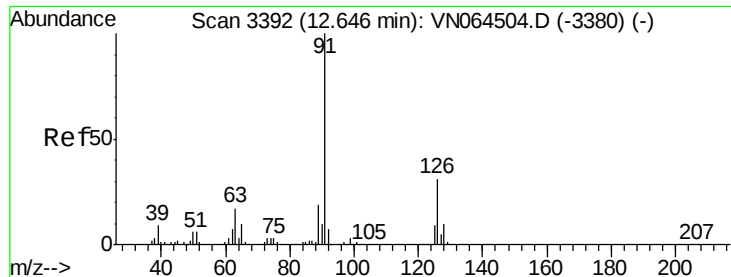
Tot Ion:156 Resp: 23438  
Ion Ratio Lower Upper  
156 100  
77 231.5 0.0 480.2  
158 95.0 0.0 194.0



#74  
n-propylbenzene  
Concen: 4.581 ug/l  
RT: 12.56 min Scan# 3366  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 91 Resp: 102303  
Ion Ratio Lower Upper  
91 100  
120 21.0 0.0 42.8





#75

2-Chlorotoluene

Concen: 4.737 ug/l

RT: 12.65 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

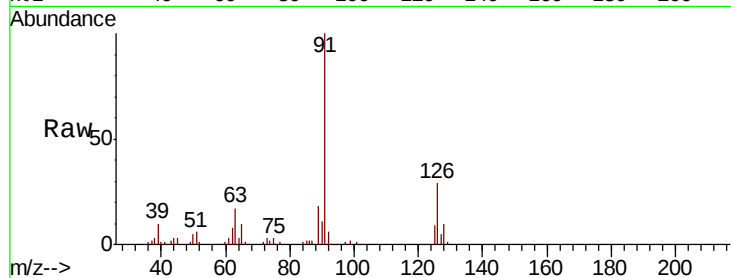
ClientSampled :

Tot Ion: 91 Resp: 66906

Ion Ratio Lower Upper

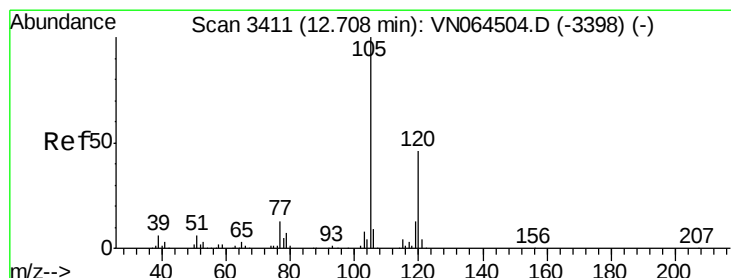
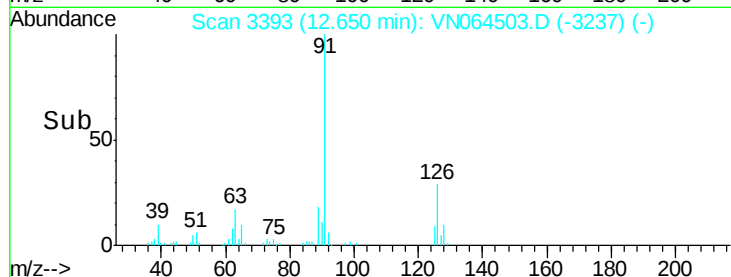
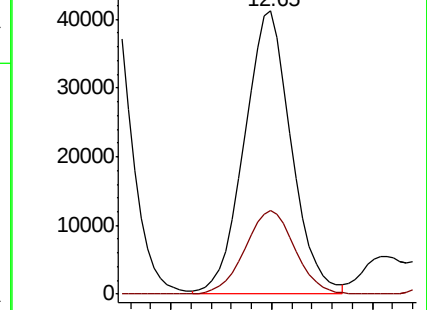
91 100

126 31.3 0.0 61.8



Abundance Ion 91.00 (90.70 to 91.70): VN064503.D (-3237) (-)

Ion 126.00 (125.70 to 126.70): VN064503.D (-3237) (-)



#76

1,3,5-Trimethylbenzene

Concen: 4.200 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN064503.D

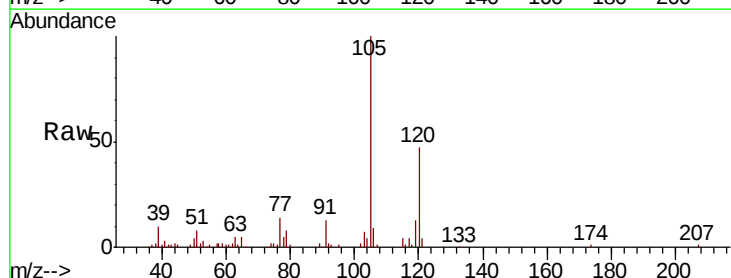
Acq: 9 Nov 2020 11:15

Tgt Ion: 105 Resp: 70190

Ion Ratio Lower Upper

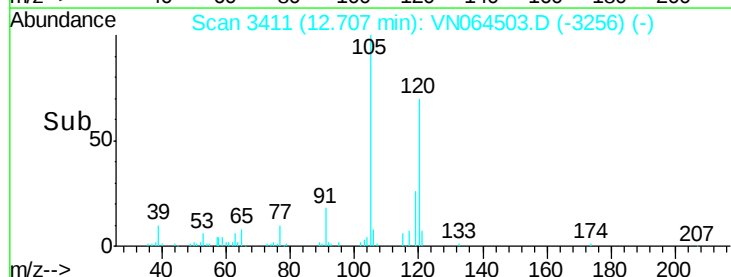
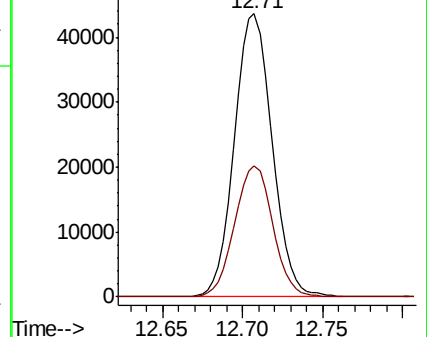
105 100

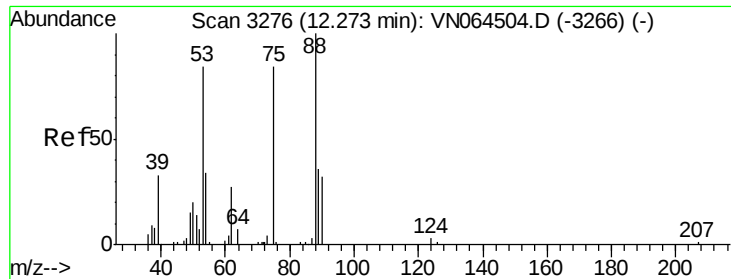
120 46.8 0.0 90.4



Abundance Ion 105.00 (104.70 to 105.70): VN064503.D (-3256) (-)

Ion 120.00 (119.70 to 120.70): VN064503.D (-3256) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 4.528 ug/l

RT: 12.27 min Scan# 3276

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Instrument :

MSVOA\_N

ClientSampleId :

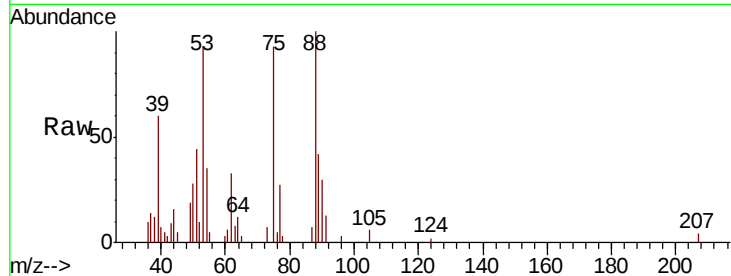
Tot Ion: 75 Resp: 9526

Ion Ratio Lower Upper

75 100

53 96.8 50.3 150.9

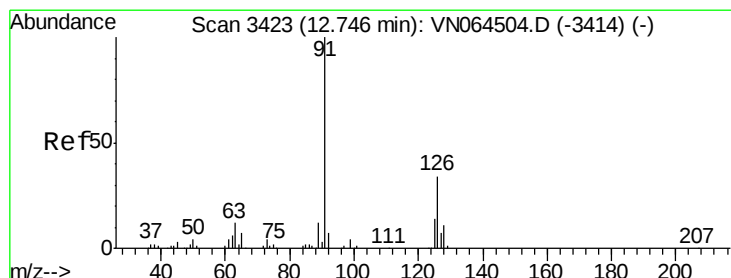
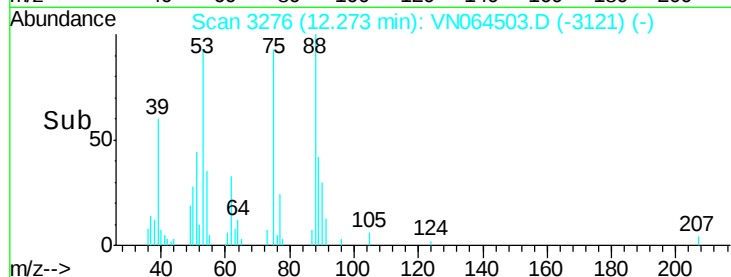
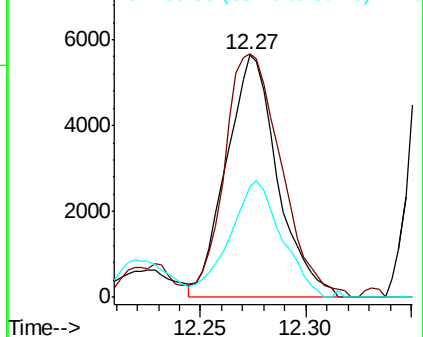
89 42.9 23.3 69.8



Abundance Ion 75.00 (74.70 to 75.70): VN064503.D (-3276) (-)

Ion 53.00 (52.70 to 53.70): VN064503.D (-3276) (-)

Ion 89.00 (88.70 to 89.70): VN064503.D (-3276) (-)



#78

4-Chlorotoluene

Concen: 4.617 ug/l

RT: 12.75 min Scan# 3424

Delta R.T. 0.00 min

Lab File: VN064503.D

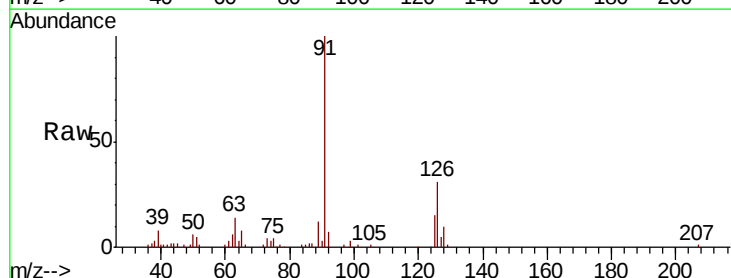
Acq: 9 Nov 2020 11:15

Tgt Ion: 91 Resp: 67728

Ion Ratio Lower Upper

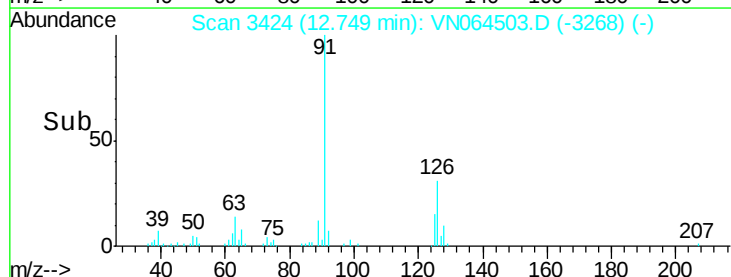
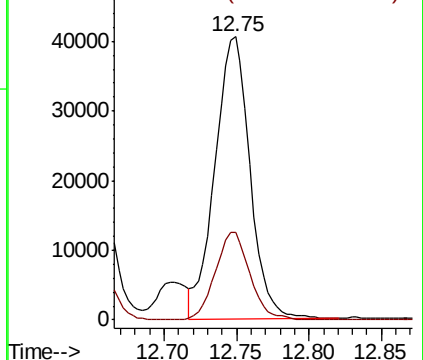
91 100

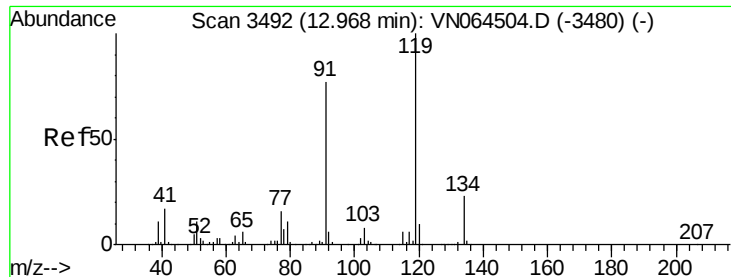
126 30.6 0.0 61.8



Abundance Ion 91.00 (90.70 to 91.70): VN064503.D (-3423) (-)

Ion 126.00 (125.70 to 126.70): VN064503.D (-3423) (-)

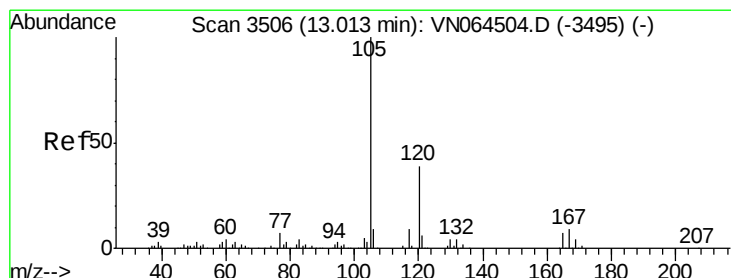
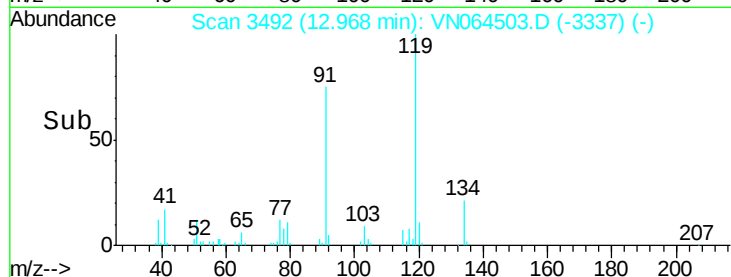
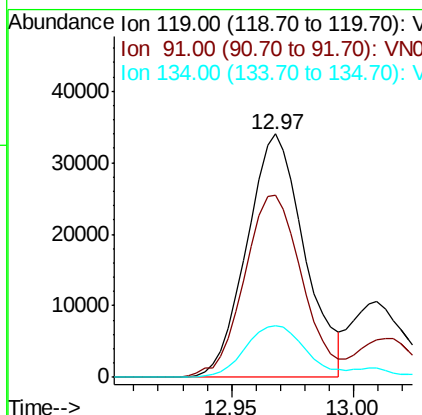
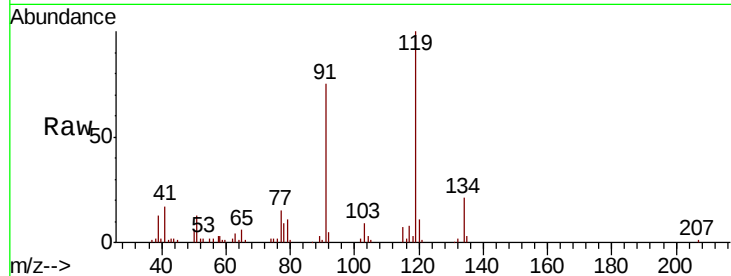




#79  
tert-butylbenzene  
Concen: 4.238 ug/l  
RT: 12.97 min Scan# 3492  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

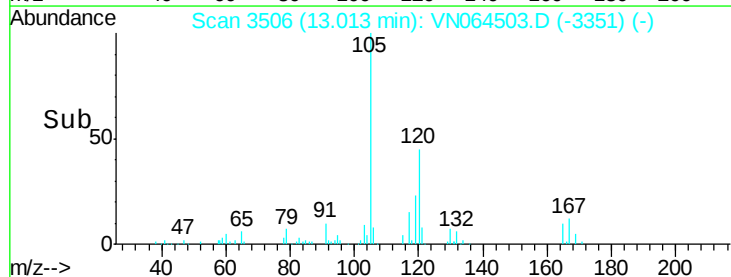
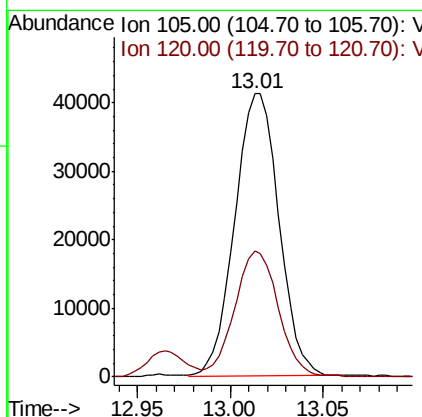
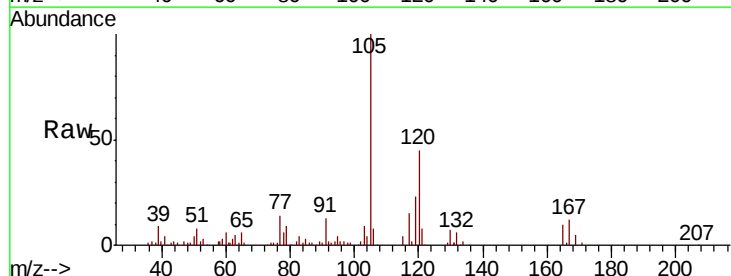
Instrument :  
MSVOA\_N  
ClientSampleId :

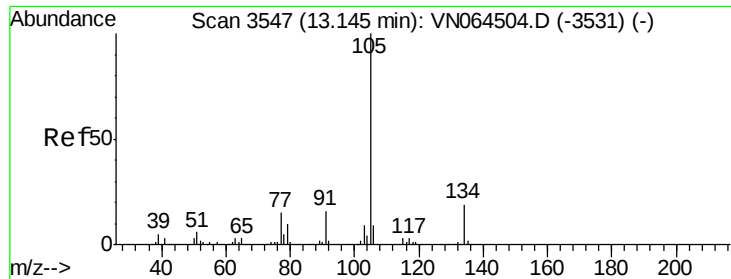
Tot Ion:119 Resp: 55680  
Ion Ratio Lower Upper  
119 100  
91 75.8 0.0 147.8  
134 22.4 0.0 50.6



#80  
1,2,4-Trimethylbenzene  
Concen: 4.044 ug/l  
RT: 13.01 min Scan# 3506  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion:105 Resp: 68065  
Ion Ratio Lower Upper  
105 100  
120 44.0 0.0 88.6

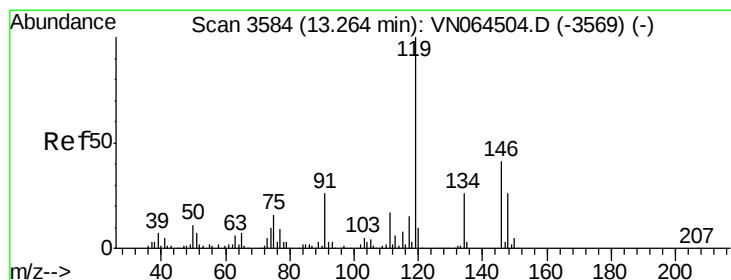
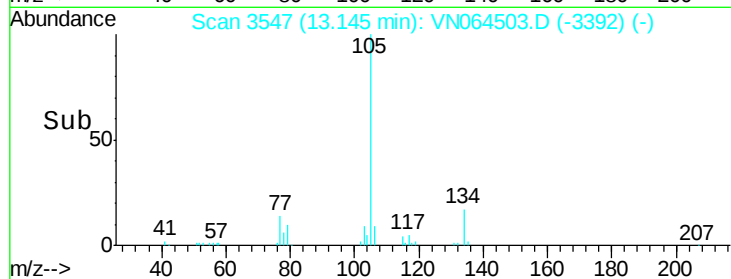
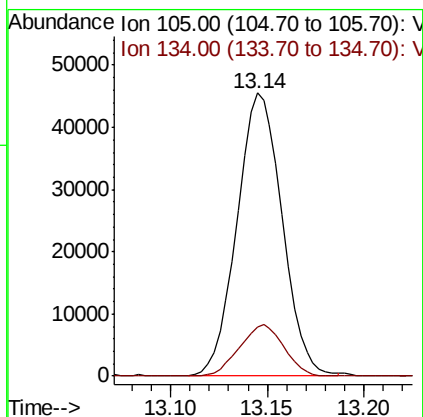
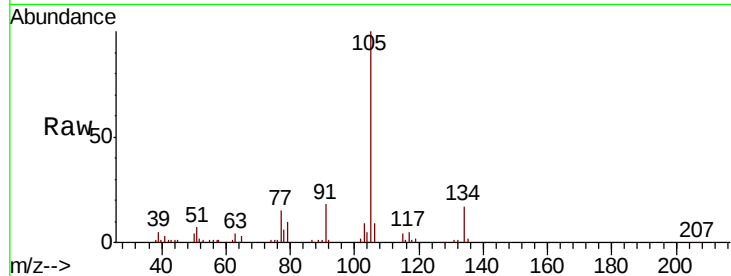




#81  
 sec-Butylbenzene  
 Concen: 4.376 ug/l  
 RT: 13.14 min Scan# 3547  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

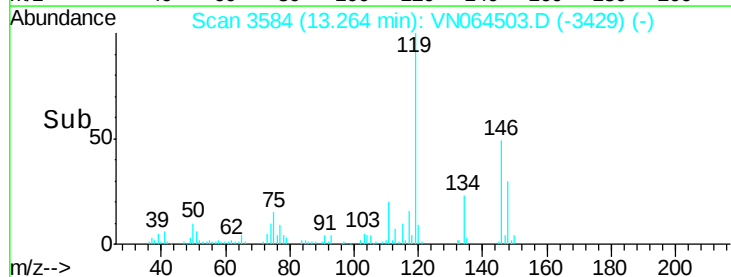
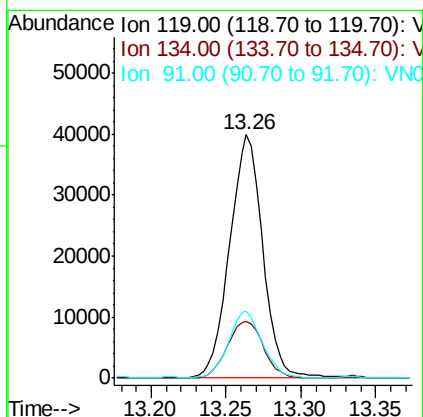
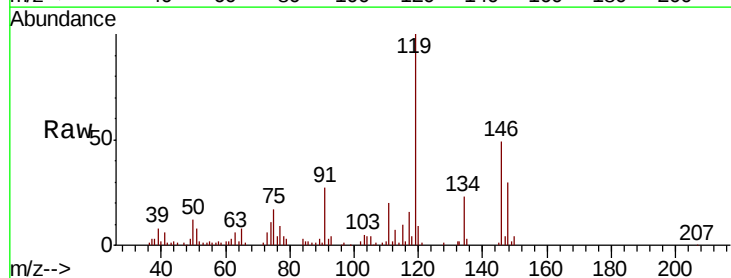
Instrument :  
 MSVOA\_N  
 ClientSampled :

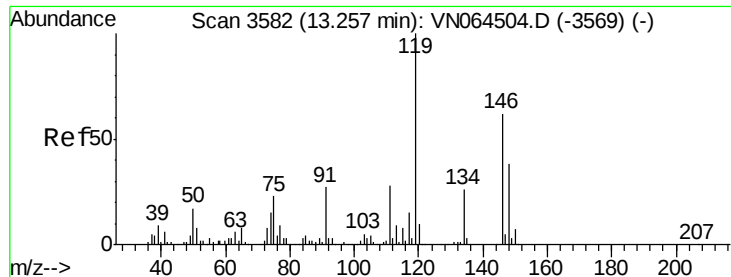
Tot Ion:105 Resp: 73940  
 Ion Ratio Lower Upper  
 105 100  
 134 17.8 0.0 37.8



#82  
 p-Isopropyltoluene  
 Concen: 3.987 ug/l  
 RT: 13.26 min Scan# 3584  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion:119 Resp: 61560  
 Ion Ratio Lower Upper  
 119 100  
 134 25.2 0.0 53.0  
 91 27.8 0.0 53.2

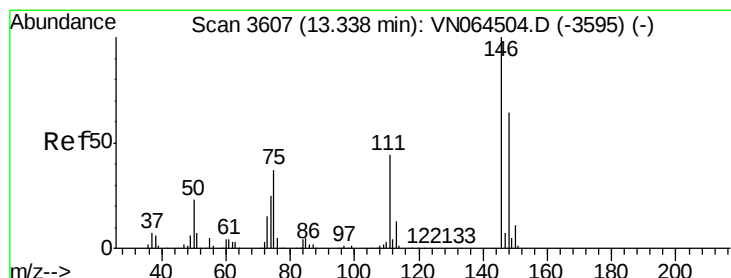
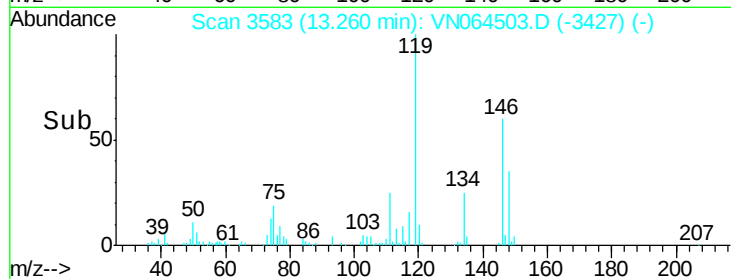
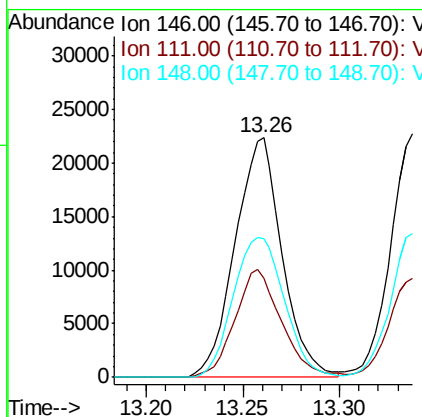
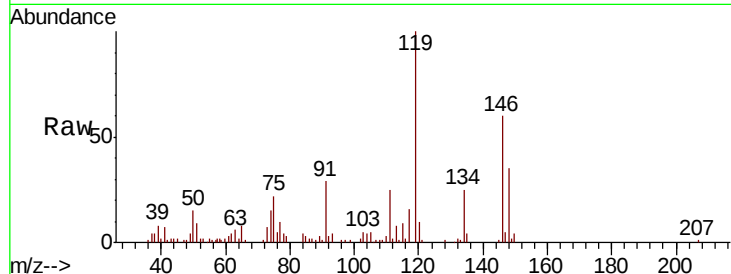




#83  
 1,3-Dichlorobenzene  
 Concen: 4.263 ug/l  
 RT: 13.26 min Scan# 3583  
 Delta R.T. 0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

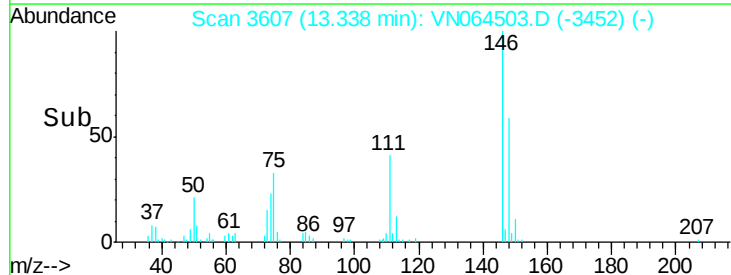
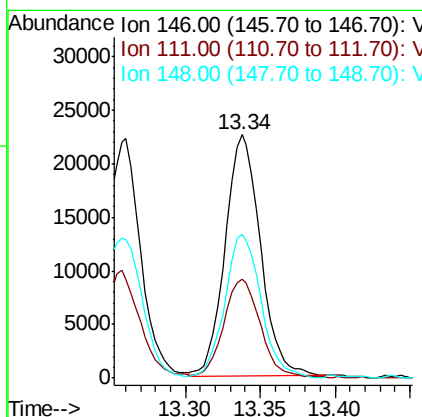
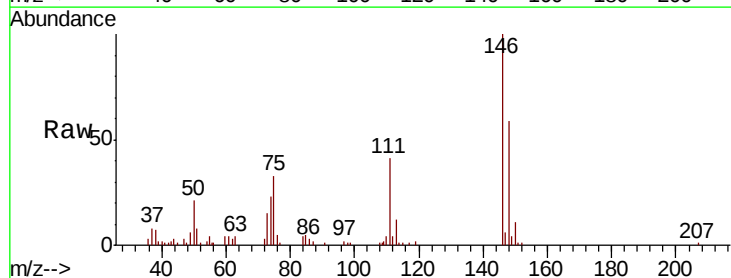
Instrument :  
 MSVOA\_N  
 ClientSampled :

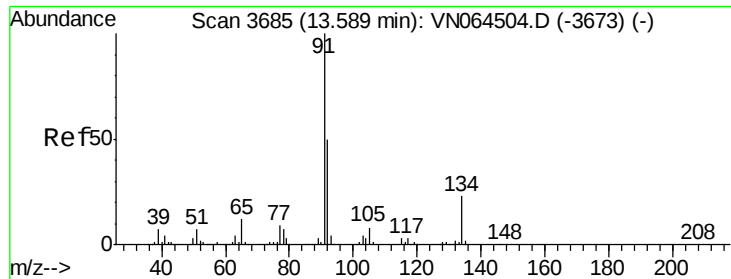
Tot Ion:146 Resp: 37749  
 Ion Ratio Lower Upper  
 146 100  
 111 44.7 22.3 66.9  
 148 63.6 31.8 95.3



#84  
 1,4-Dichlorobenzene  
 Concen: 4.215 ug/l  
 RT: 13.34 min Scan# 3607  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion:146 Resp: 37394  
 Ion Ratio Lower Upper  
 146 100  
 111 42.4 21.8 65.4  
 148 60.9 31.5 94.5

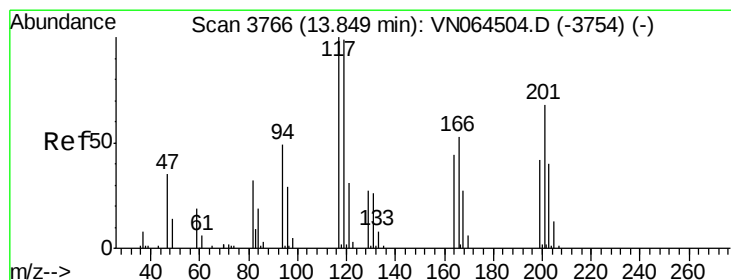
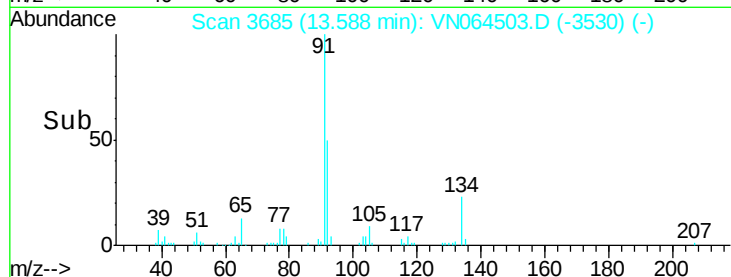
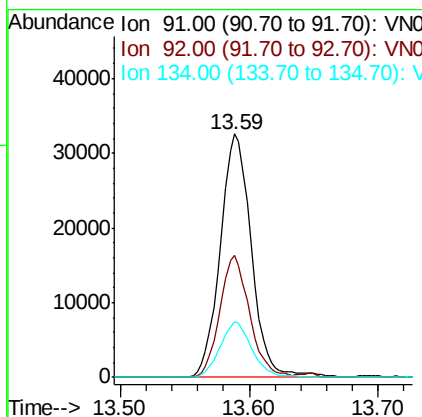
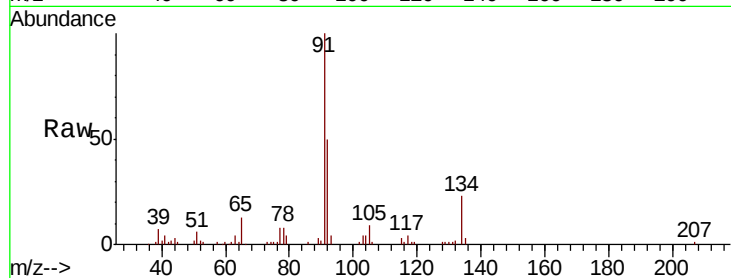




#85  
n-Butylbenzene  
Concen: 4.414 ug/l  
RT: 13.59 min Scan# 3685  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

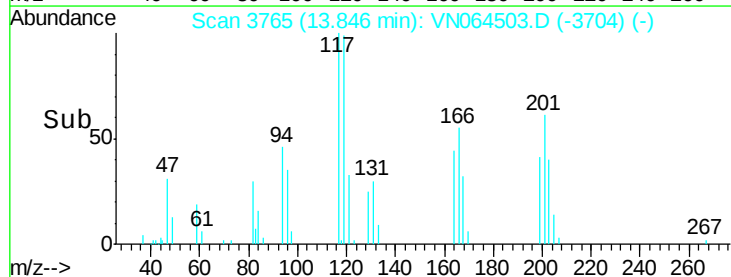
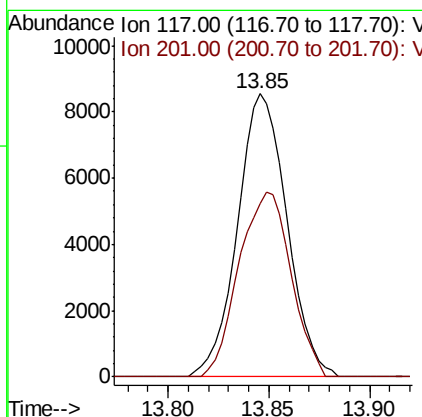
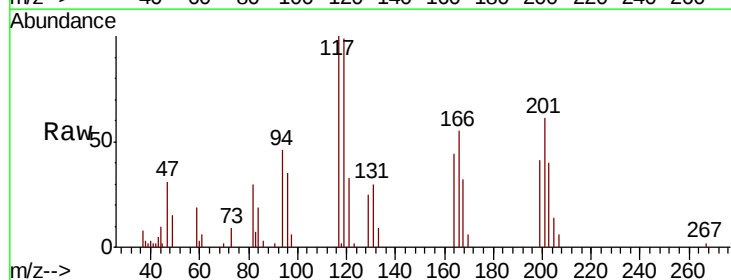
Instrument :  
MSVOA\_N  
ClientSampled :

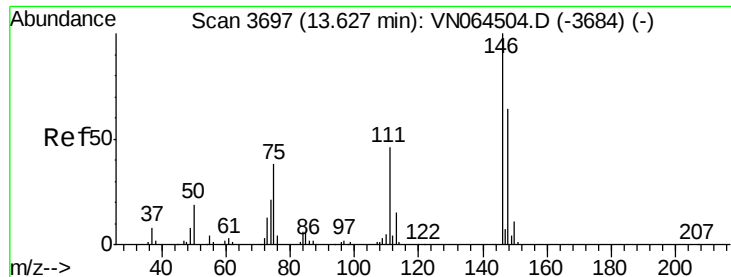
Tot Ion: 91 Resp: 54641  
Ion Ratio Lower Upper  
91 100  
92 47.6 0.0 101.4  
134 22.8 0.0 45.2



#86  
Hexachloroethane  
Concen: 4.968 ug/l  
RT: 13.85 min Scan# 3765  
Delta R.T. -0.00 min  
Lab File: VN064503.D  
Acq: 9 Nov 2020 11:15

Tgt Ion: 117 Resp: 14642  
Ion Ratio Lower Upper  
117 100  
201 68.8 33.1 99.3

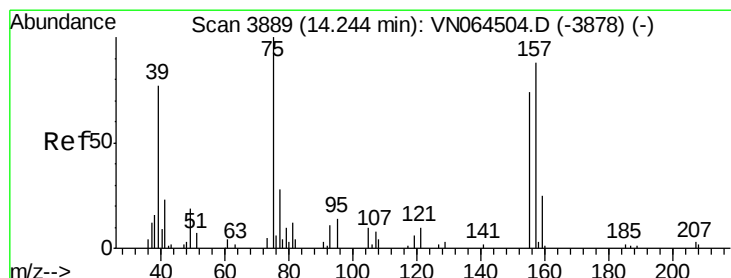
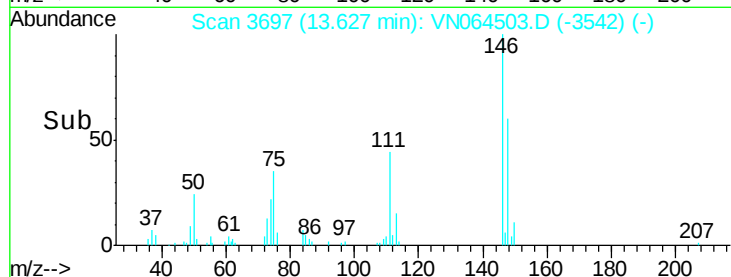
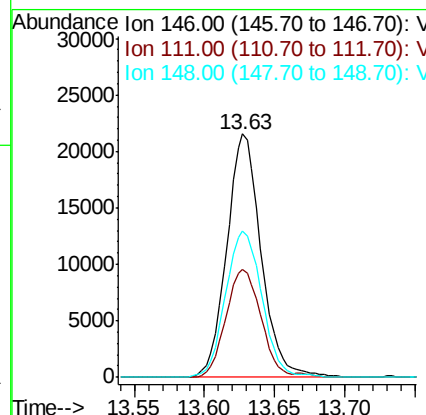
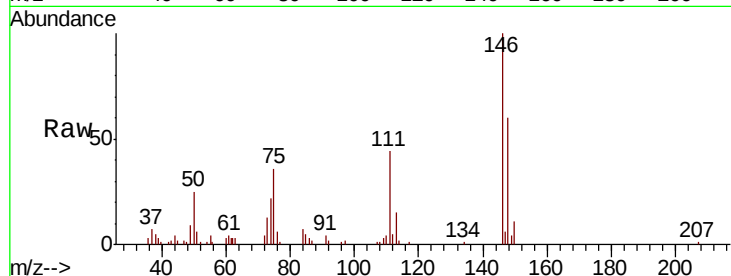




#87  
 1,2-Dichlorobenzene  
 Concen: 4.314 ug/l  
 RT: 13.63 min Scan# 3697  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

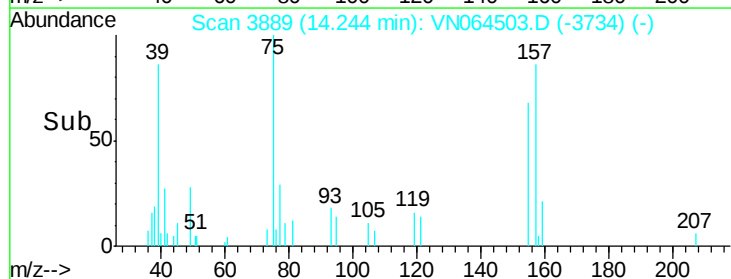
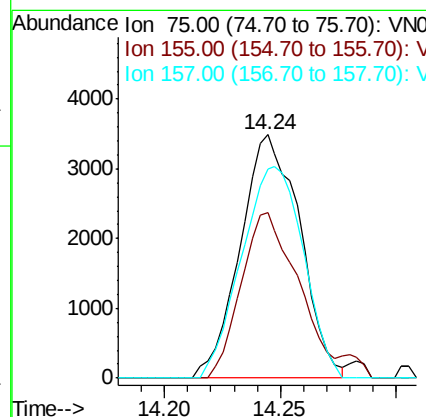
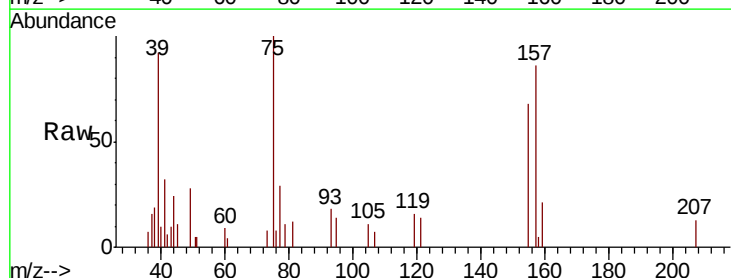
Instrument :  
 MSVOA\_N  
 ClientSampled :

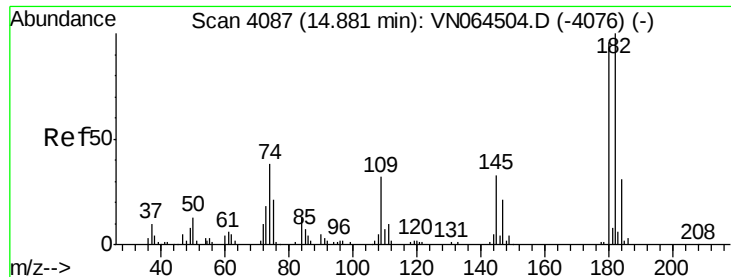
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.7  | 23.1  | 69.2  |
| 148     | 63.0  | 32.6  | 97.8  |



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 5.039 ug/l  
 RT: 14.24 min Scan# 3889  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 64.9  | 56.5  | 84.7  |
| 157     | 89.8  | 69.7  | 104.5 |

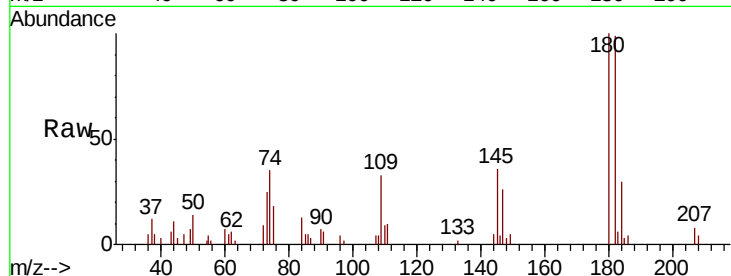




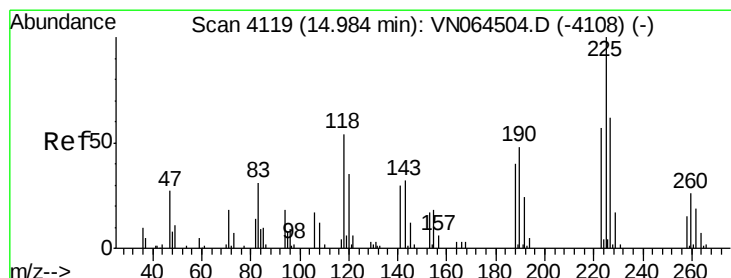
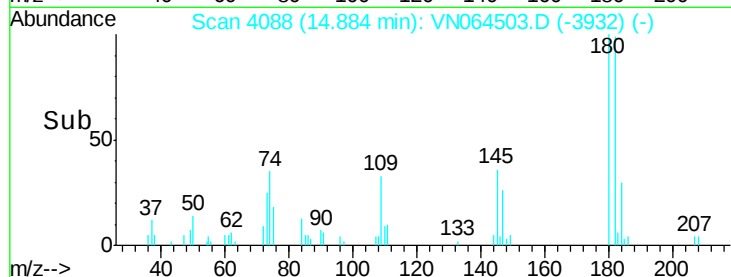
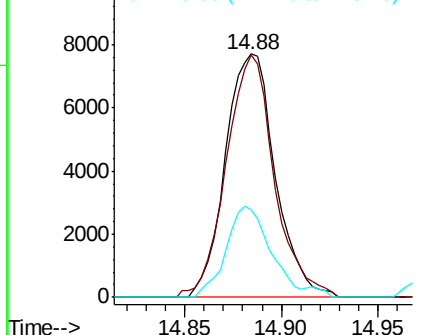
#89  
 1,2,4-Trichlorobenzene  
 Concen: 3.381 ug/l  
 RT: 14.88 min Scan# 4088  
 Delta R.T. 0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:180 Resp: 13840  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 79.4 119.0  
 145 32.9 27.6 41.4

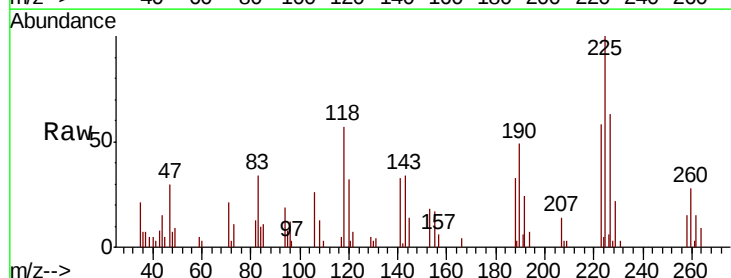


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

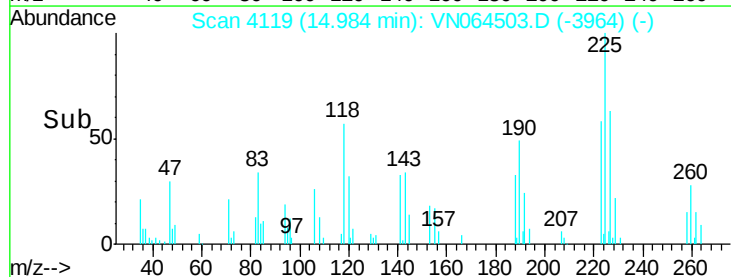
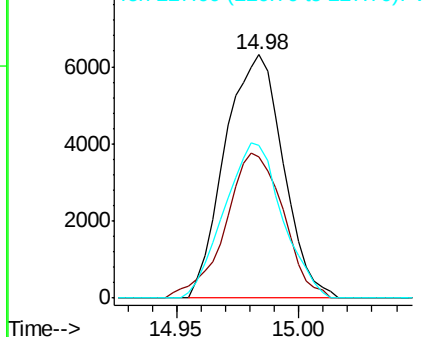


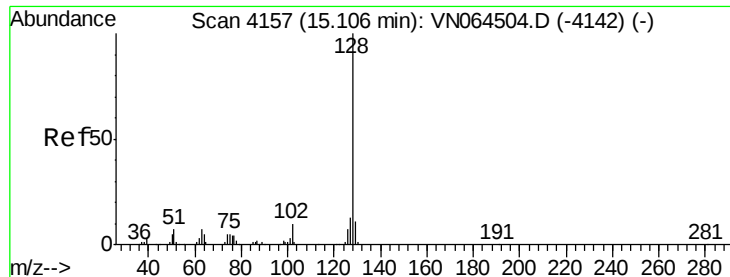
#90  
 Hexachlorobutadiene  
 Concen: 4.802 ug/l  
 RT: 14.98 min Scan# 4119  
 Delta R.T. -0.00 min  
 Lab File: VN064503.D  
 Acq: 9 Nov 2020 11:15

Tgt Ion:225 Resp: 10458  
 Ion Ratio Lower Upper  
 225 100  
 223 58.9 0.0 125.4  
 227 63.5 0.0 122.0



Abundance Ion 225.00 (224.70 to 225.70): V  
 Ion 223.00 (222.70 to 223.70): V  
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 3.372 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

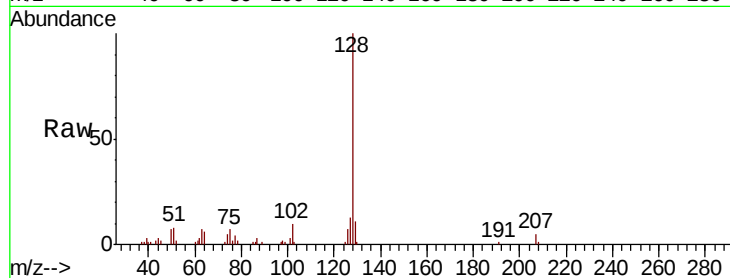
Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion:128 Resp: 41817

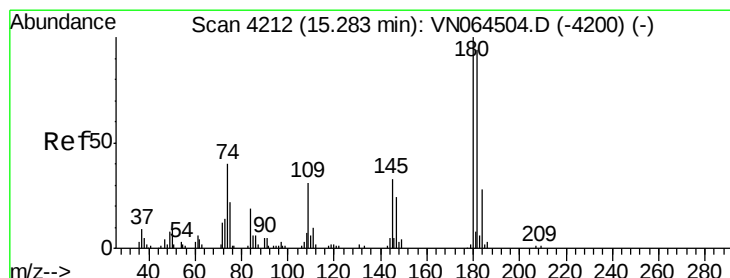
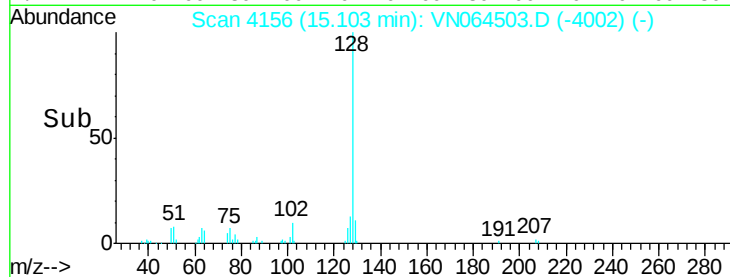
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.9  | 10.2  | 15.4  |
| 129 | 10.7  | 8.5   | 12.7  |



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



#92

1,2,3-Trichlorobenzene

Concen: 3.659 ug/l

RT: 15.28 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN064503.D

Acq: 9 Nov 2020 11:15

Tgt Ion:180 Resp: 15067

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.1  | 0.0   | 186.0 |
| 145 | 39.9  | 0.0   | 69.6  |

