

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\  
 Data File : VN059118.D  
 Acq On : 7 Nov 2019 13:42  
 Operator : JC/SP  
 Sample : VN1107WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

Quant Time: Nov 08 01:10:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 11 04:26:47 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.17  | 128  | 74077    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.57  | 114  | 416087   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.40 | 117  | 374573   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.00   | 65    | 177254   | 28.19    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 93.97%  |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 187416   | 28.60    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 95.33%  |
| 63) Toluene-d8            | 10.08  | 98    | 534474   | 30.22    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.73% |

## Target Compounds

|                               |      |     |        |         | Ovalue     |
|-------------------------------|------|-----|--------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 80057  | 19.946  | ug/l 98    |
| 3) Chloromethane              | 2.04 | 50  | 113934 | 21.251  | ug/l 99    |
| 4) Vinyl Chloride             | 2.17 | 62  | 115395 | 20.825  | ug/l 98    |
| 5) Bromomethane               | 2.54 | 94  | 67471  | 19.722  | ug/l 98    |
| 6) Chloroethane               | 2.68 | 64  | 69193  | 19.866  | ug/l 99    |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 145168 | 21.285  | ug/l 97    |
| 8) Diethyl Ether              | 3.39 | 74  | 59618  | 22.919  | ug/l 99    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73 | 101 | 88565  | 22.443  | ug/l 97    |
| 10) 1,1-Dichloroethene        | 3.72 | 96  | 85061  | 21.946  | ug/l 91    |
| 11) Methyl Iodide             | 3.93 | 142 | 105311 | 19.510  | ug/l 96    |
| 12) Methyl Acetate            | 4.30 | 43  | 142855 | 23.037  | ug/l 99    |
| 13) Acrolein                  | 3.58 | 56  | 69592  | 101.569 | ug/l 99    |
| 14) Acrylonitrile             | 4.95 | 53  | 286445 | 117.232 | ug/l 97    |
| 15) Acetone                   | 3.79 | 58  | 90793  | 125.182 | ug/l 81    |
| 16) Carbon Disulfide          | 4.03 | 76  | 238411 | 21.089  | ug/l 100   |
| 17) Allyl chloride            | 4.30 | 41  | 169552 | 21.979  | ug/l 90    |
| 18) Methylene Chloride        | 4.52 | 84  | 101026 | 21.525  | ug/l 97    |
| 19) trans-1,2-Dichloroethene  | 5.01 | 96  | 92060  | 21.818  | ug/l 91    |
| 20) Diisopropyl ether         | 5.92 | 45  | 346946 | 22.074  | ug/l 97    |
| 21) 1,1-Dichloroethane        | 5.82 | 63  | 189878 | 21.816  | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 6.80 | 96  | 109007 | 21.668  | ug/l 96    |
| 23) tert-Butyl Alcohol        | 4.75 | 59  | 114722 | 114.790 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 5.02 | 73  | 306651 | 21.208  | ug/l 96    |
| 25) Chloroform                | 7.35 | 83  | 183495 | 21.139  | ug/l 98    |
| 26) Cyclohexane               | 7.63 | 56  | 160628 | 21.027  | ug/l # 96  |
| 29) 1,1-Dichloropropene       | 7.77 | 75  | 132929 | 20.295  | ug/l 98    |
| 30) 2-Butanone                | 6.81 | 43  | 399799 | 108.016 | ug/l # 96  |
| 31) 2,2-Dichloropropane       | 6.79 | 77  | 154068 | 19.957  | ug/l 100   |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 154683 | 20.419  | ug/l 98    |
| 33) Carbon Tetrachloride      | 7.75 | 117 | 132056 | 20.139  | ug/l 98    |
| 34) Benzene                   | 8.02 | 78  | 410528 | 21.290  | ug/l 98    |
| 35) Methacrylonitrile         | 7.15 | 41  | 56544  | 17.293  | ug/l 87    |
| 36) 1,2-Dichloroethane        | 8.10 | 62  | 144124 | 19.549  | ug/l 98    |
| 37) Trichloroethene           | 8.82 | 130 | 99934  | 21.096  | ug/l 99    |
| 38) Methylcyclohexane         | 9.07 | 83  | 153044 | 20.153  | ug/l 98    |
| 39) 1,2-Dichloropropane       | 9.10 | 63  | 114751 | 21.776  | ug/l 96    |
| 40) Dibromomethane            | 9.19 | 93  | 68727  | 20.660  | ug/l 97    |

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 11 04:26:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 9.39  | 83   | 141581   | 20.833  | ug/l  | 99       |
| 42) Vinyl Acetate              | 5.87  | 43   | 1405439  | 108.421 | ug/l  | 99       |
| 43) Ethyl Acetate              | 6.90  | 43   | 153315   | 21.104  | ug/l  | 97       |
| 44) Isopropyl Acetate          | 8.15  | 43   | 242790   | 20.632  | ug/l  | 91       |
| 45) 1,4-Dioxane                | 9.18  | 88   | 40707    | 450.504 | ug/l  | 97       |
| 46) Methyl methacrylate        | 9.18  | 41   | 105494   | 19.528  | ug/l  | 94       |
| 47) n-amyl Acetate             | 12.07 | 43   | 185678   | 17.800  | ug/l  | 95       |
| 48) t-1,3-Dichloropropene      | 10.37 | 75   | 157616   | 19.997  | ug/l  | 99       |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 173261   | 20.934  | ug/l  | 95       |
| 50) 1,1,2-Trichloroethane      | 10.55 | 97   | 100316   | 21.123  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 10.42 | 69   | 149706   | 19.714  | ug/l  | 95       |
| 52) 1,3-Dichloropropane        | 10.70 | 76   | 174506   | 20.633  | ug/l  | 100      |
| 53) Dibromochloromethane       | 10.90 | 129  | 106495   | 20.895  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 103019   | 20.929  | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether  | 9.68  | 63   | 340113   | 90.040  | ug/l  | 99       |
| 56) Bromoform                  | 12.13 | 173  | 74365    | 20.946  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 9.97  | 43   | 777171   | 113.735 | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.74 | 43   | 567414   | 105.920 | ug/l  | 97       |
| 61) Tetrachloroethene          | 10.63 | 164  | 90600    | 22.383  | ug/l  | 96       |
| 62) Toluene                    | 10.15 | 91   | 431356   | 21.409  | ug/l  | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 256303   | 20.806  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 99169    | 21.470  | ug/l  | 97       |
| 66) Ethyl Benzene              | 11.51 | 91   | 459043   | 20.575  | ug/l  | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 339130   | 40.686  | ug/l  | 99       |
| 68) o-Xylene                   | 11.95 | 106  | 165768   | 20.515  | ug/l  | 98       |
| 69) Styrene                    | 11.96 | 104  | 261154   | 19.563  | ug/l  | 98       |
| 70) Isopropylbenzene           | 12.25 | 105  | 443709   | 20.339  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 154120   | 20.985  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 201876   | 30.334  | ug/l  | 59       |
| 73) Bromobenzene               | 12.53 | 156  | 105731   | 19.953  | ug/l  | 98       |
| 74) n-propylbenzene            | 12.59 | 91   | 508337   | 19.907  | ug/l  | 99       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 312443   | 20.336  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 373967   | 20.014  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 51576    | 20.344  | ug/l  | 93       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 302685   | 19.115  | ug/l  | 98       |
| 79) tert-butylbenzene          | 12.99 | 119  | 320200   | 20.058  | ug/l  | 97       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 367969   | 19.818  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 13.17 | 105  | 420217   | 19.560  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 372061   | 19.286  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 183543   | 19.142  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 173394   | 18.104  | ug/l  | 97       |
| 85) n-Butylbenzene             | 13.62 | 91   | 307706   | 17.421  | ug/l  | 100      |
| 86) Hexachloroethane           | 13.88 | 117  | 72202    | 20.565  | ug/l  | 96       |
| 87) 1,2-Dichlorobenzene        | 13.66 | 146  | 183898   | 19.427  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 30178    | 18.461  | ug/l  | 92       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 92516    | 15.478  | ug/l  | 98       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 59973    | 19.431  | ug/l  | 98       |
| 91) Naphthalene                | 15.13 | 128  | 250756   | 14.209  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 95546    | 16.422  | ug/l  | 99       |

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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

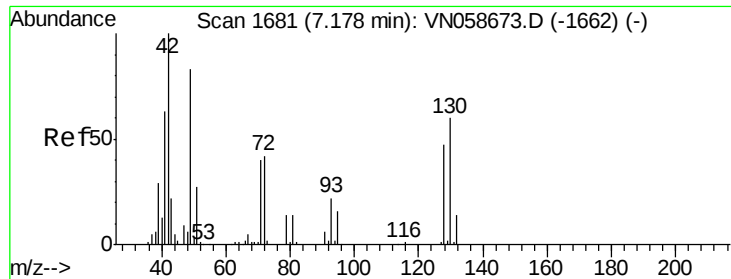
Quant Time: Nov 08 01:10:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

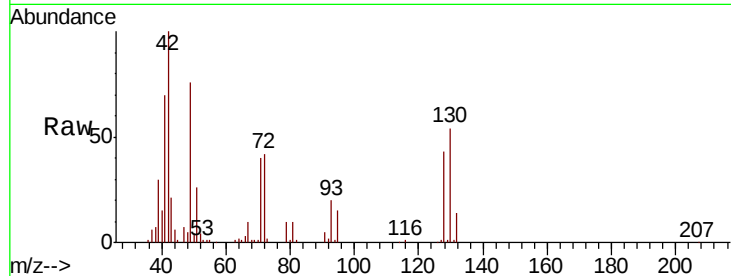
Tot Ion:128 Resp: 74077

Ion Ratio Lower Upper

128 100

49 184.5 0.0 453.5

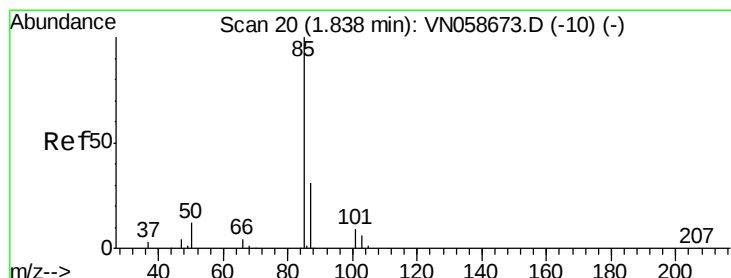
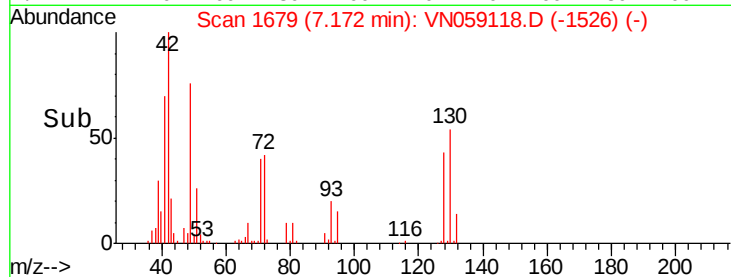
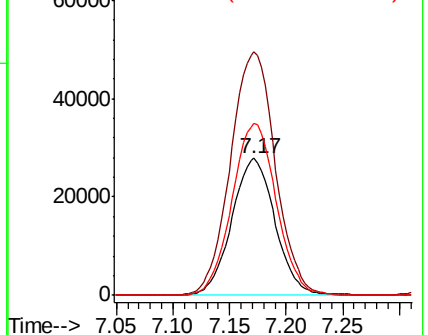
130 129.1 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 19.946 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059118.D

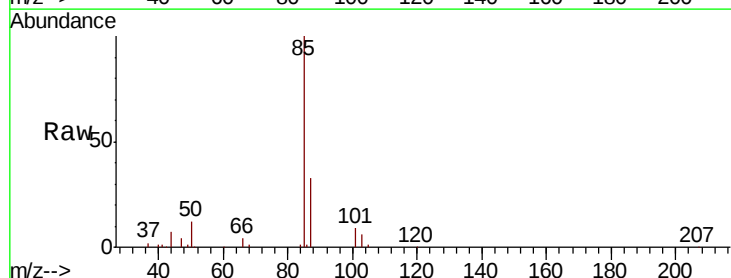
Acq: 7 Nov 2019 13:42

Tgt Ion: 85 Resp: 80057

Ion Ratio Lower Upper

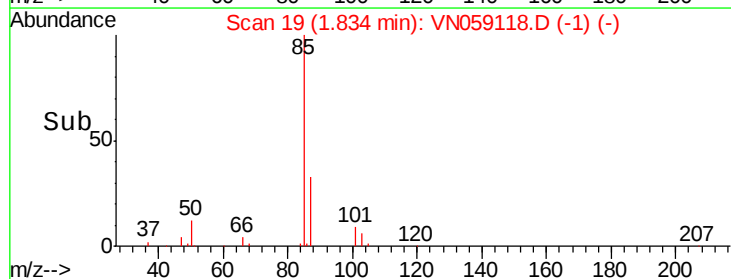
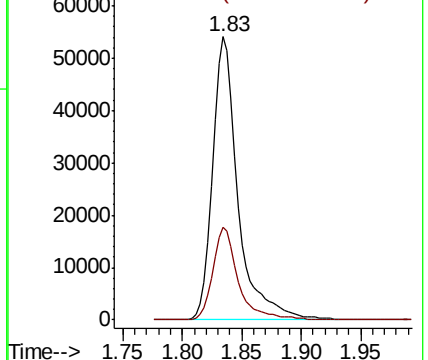
85 100

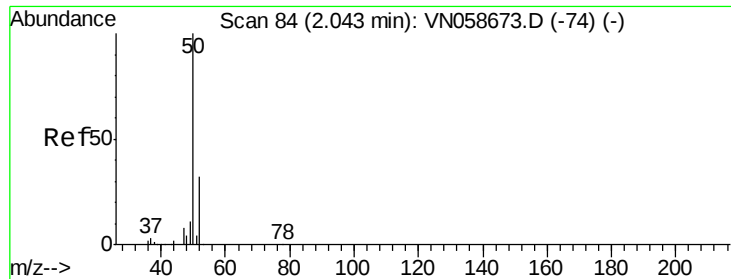
87 32.7 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 21.251 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

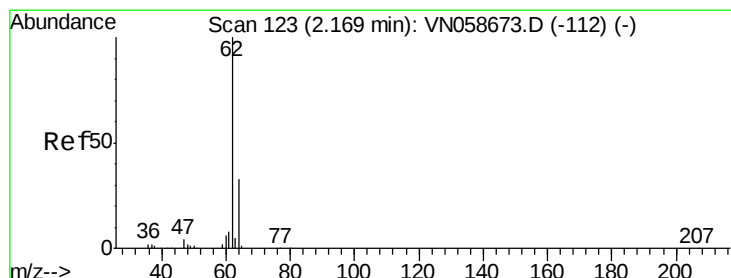
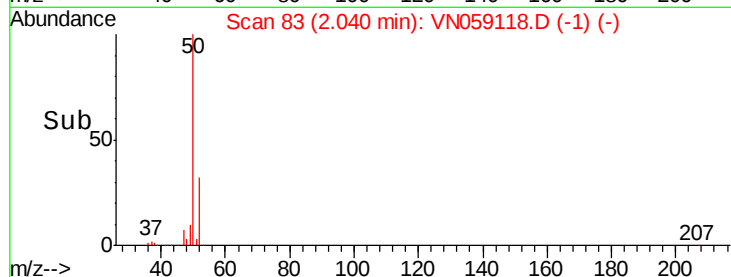
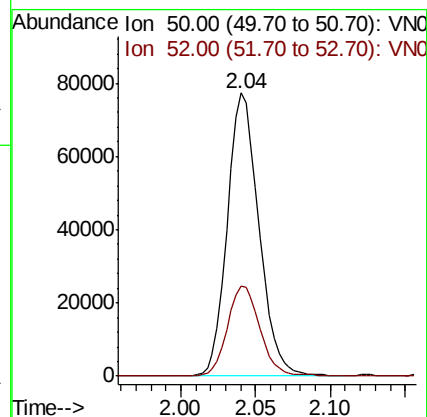
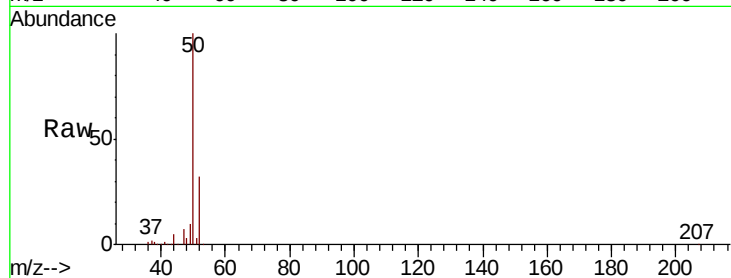
VN1107WBSD01

Tot Ion: 50 Resp: 113934

Ion Ratio Lower Upper

50 100

52 31.7 25.8 38.8



#4

Vinyl Chloride

Concen: 20.825 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059118.D

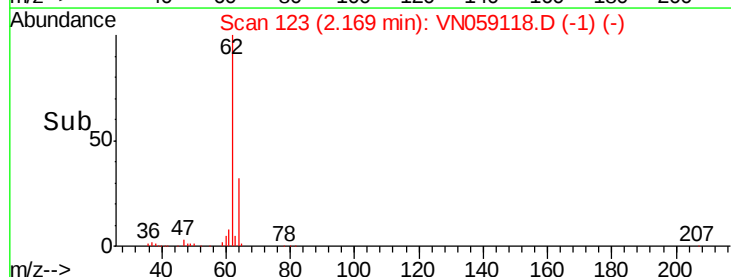
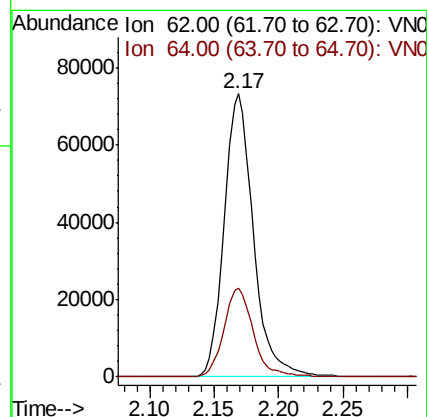
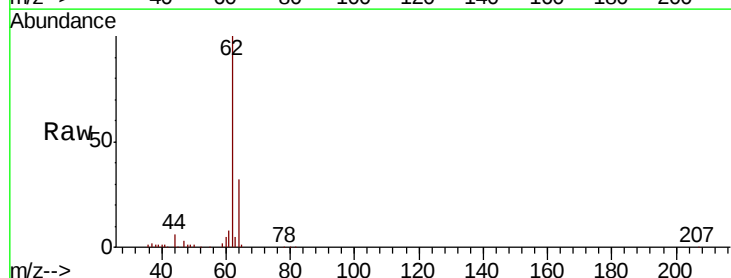
Acq: 7 Nov 2019 13:42

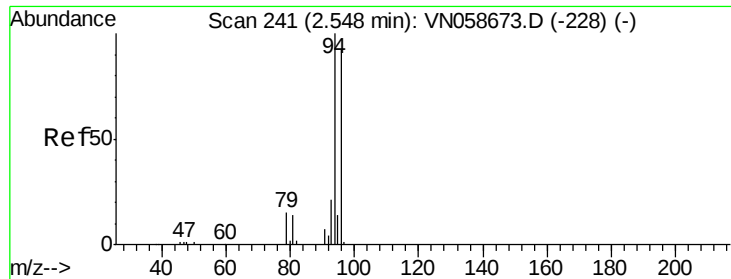
Tgt Ion: 62 Resp: 115395

Ion Ratio Lower Upper

62 100

64 31.5 26.1 39.1





#5

Bromomethane

Concen: 19.722 ug/l

RT: 2.54 min Scan# 240

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

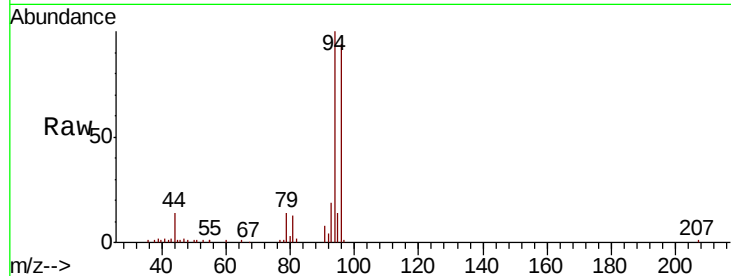
VN1107WBSD01

Tot Ion: 94 Resp: 67471

Ion Ratio Lower Upper

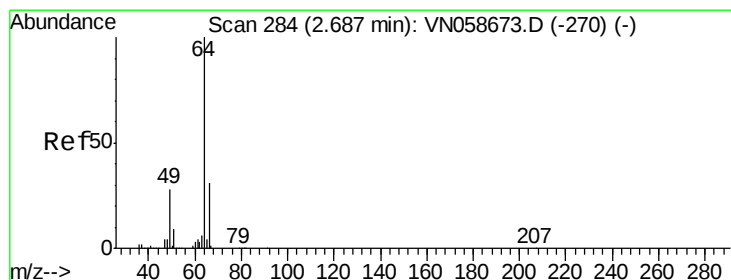
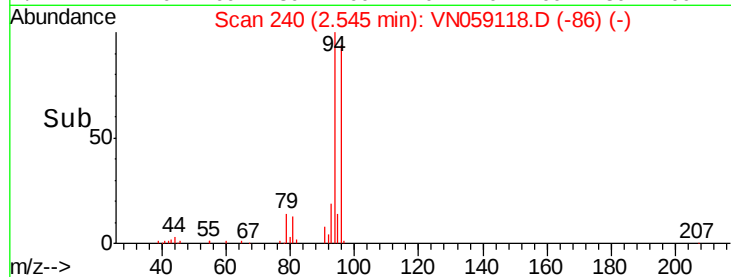
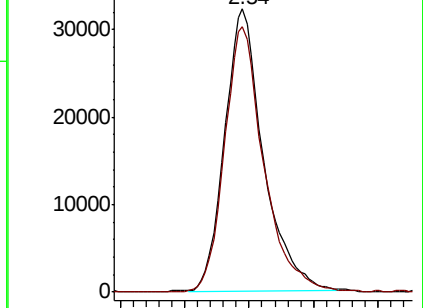
94 100

96 93.6 73.7 110.5



Abundance Ion 94.00 (93.70 to 94.70): VN058673.D (-228) (-)

Ion 96.00 (95.70 to 96.70): VN058673.D (-228) (-)



#6

Chloroethane

Concen: 19.866 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN059118.D

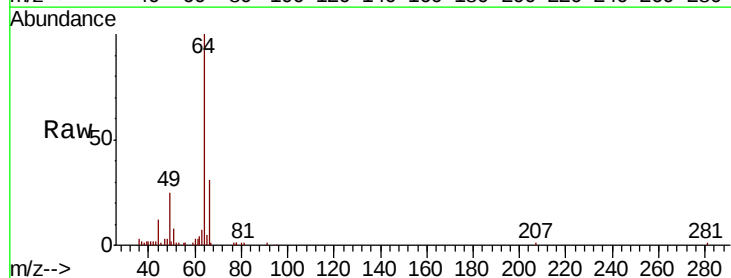
Acq: 7 Nov 2019 13:42

Tgt Ion: 64 Resp: 69193

Ion Ratio Lower Upper

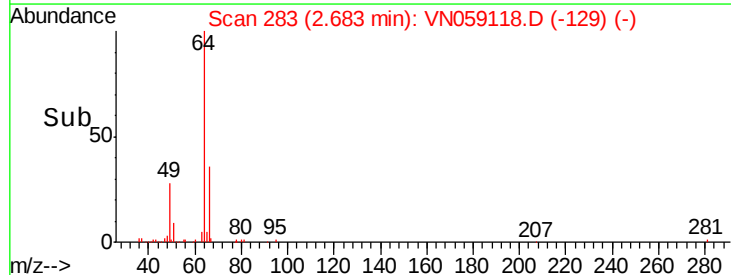
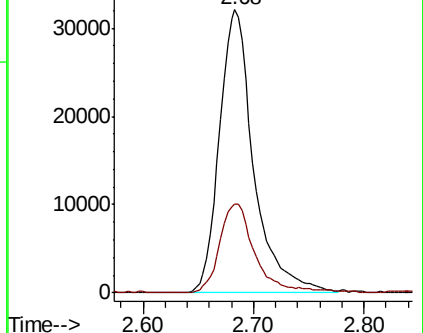
64 100

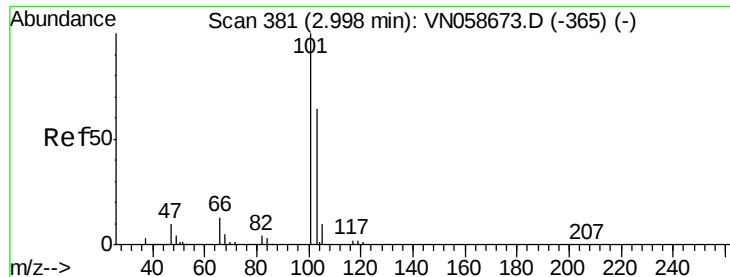
66 31.5 24.6 36.8



Abundance Ion 64.00 (63.70 to 64.70): VN058673.D (-270) (-)

Ion 66.00 (65.70 to 66.70): VN058673.D (-270) (-)



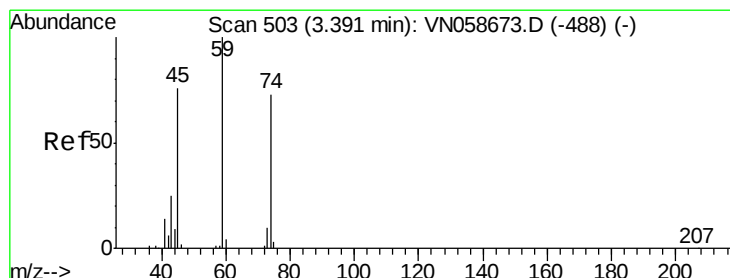
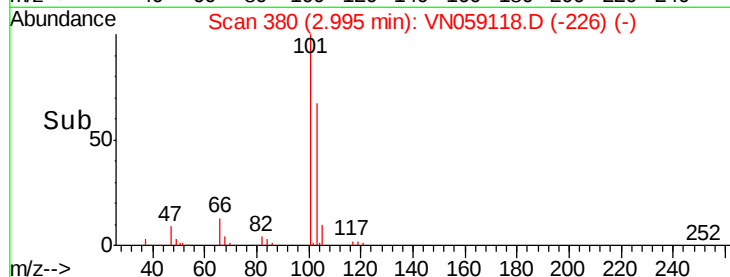
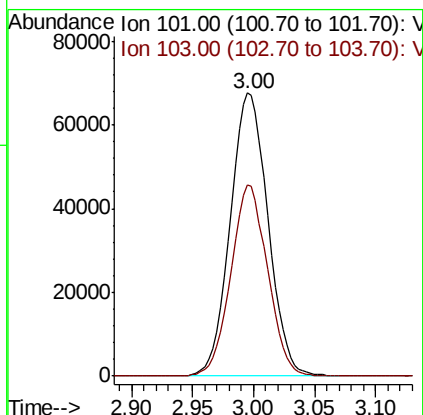
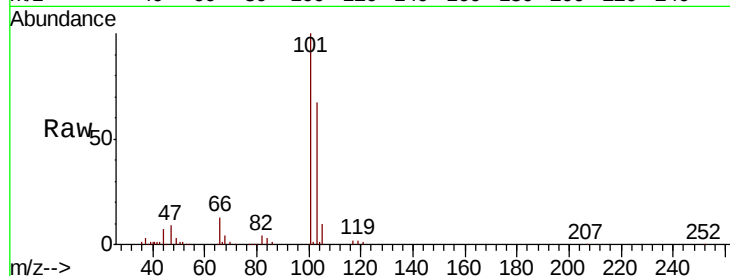


#7

Trichlorofluoromethane  
Concen: 21.285 ug/l  
RT: 3.00 min Scan# 380  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

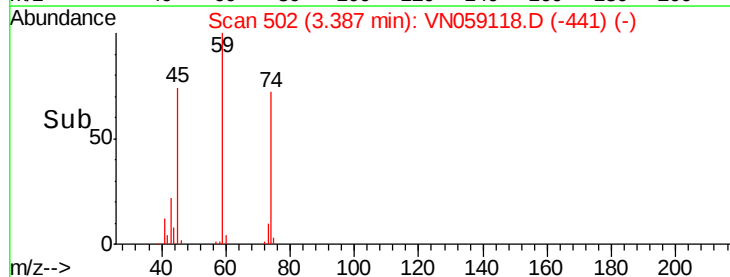
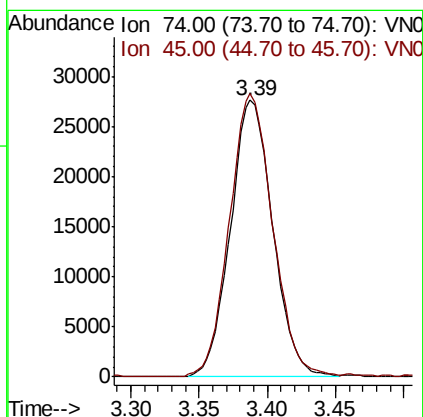
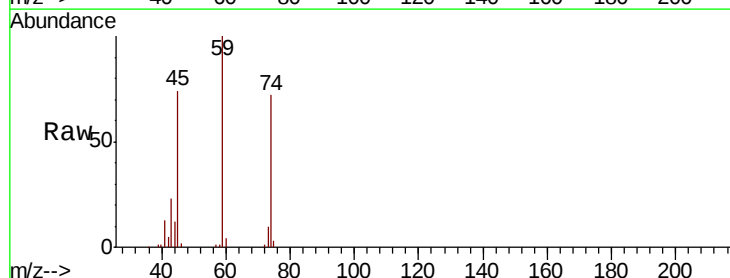
Tot Ion:101 Resp: 145168  
Ion Ratio Lower Upper  
101 100  
103 67.1 51.5 77.3

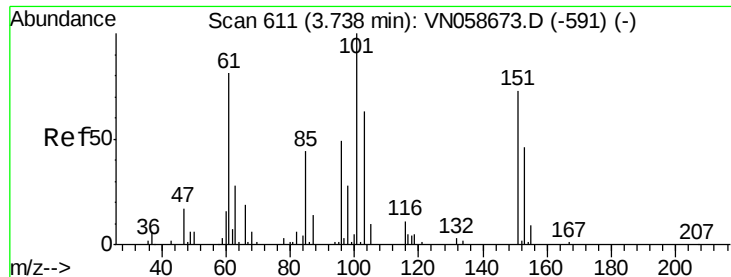


#8

Diethyl Ether  
Concen: 22.919 ug/l  
RT: 3.39 min Scan# 502  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 74 Resp: 59618  
Ion Ratio Lower Upper  
74 100  
45 104.4 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.443 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

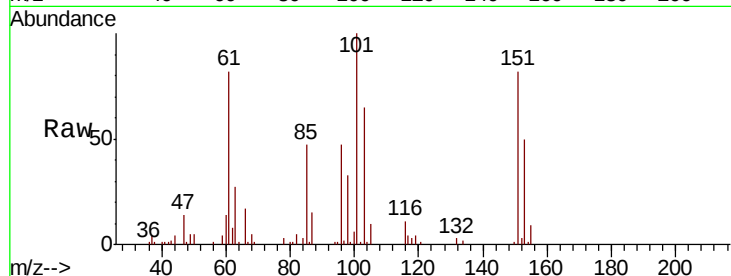
Tot Ion:101 Resp: 88565

Ion Ratio Lower Upper

101 100

85 44.8 0.0 93.8

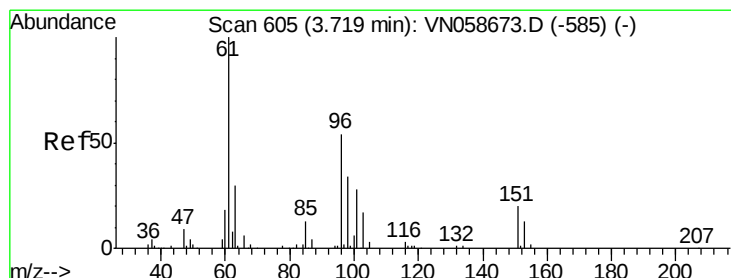
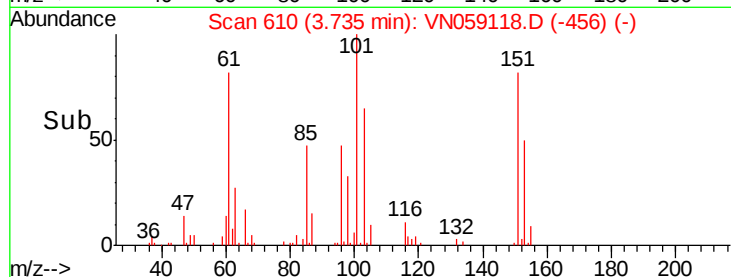
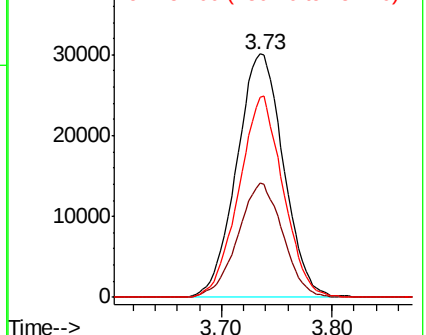
151 77.9 0.0 149.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 21.946 ug/l

RT: 3.72 min Scan# 604

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

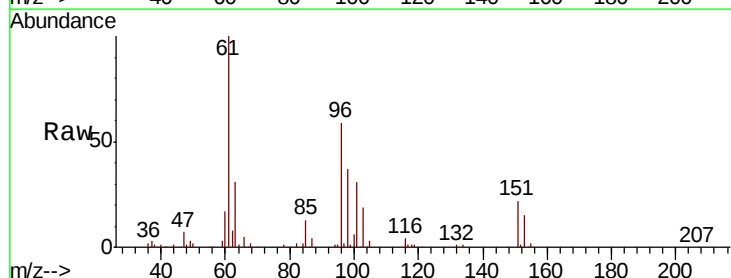
Tgt Ion: 96 Resp: 85061

Ion Ratio Lower Upper

96 100

61 168.9 148.5 222.7

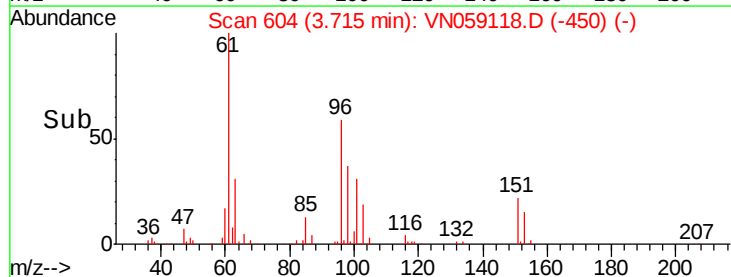
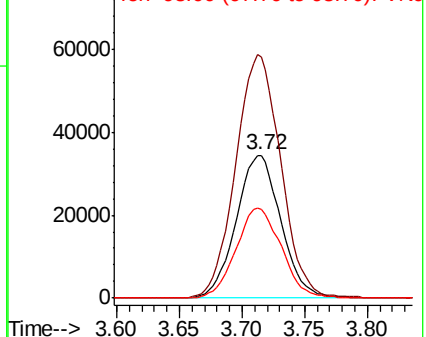
98 62.2 51.0 76.6

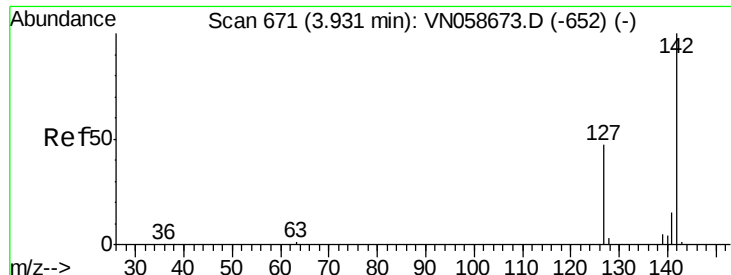


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

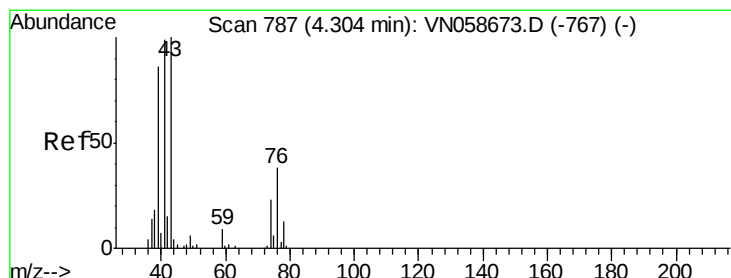
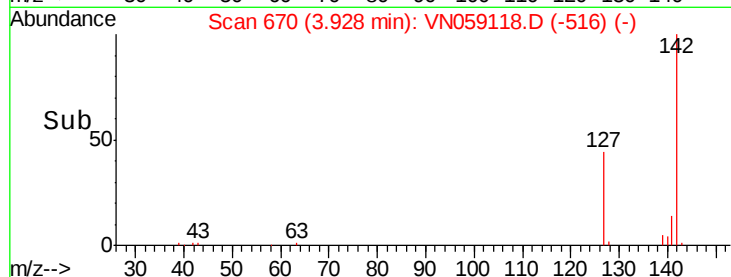
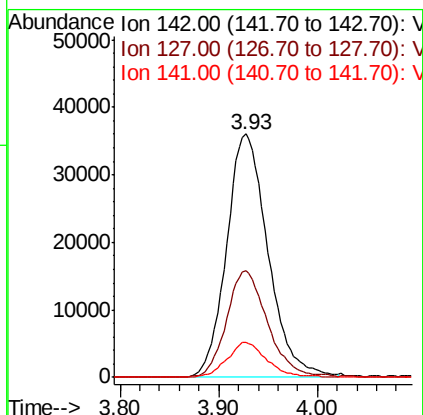
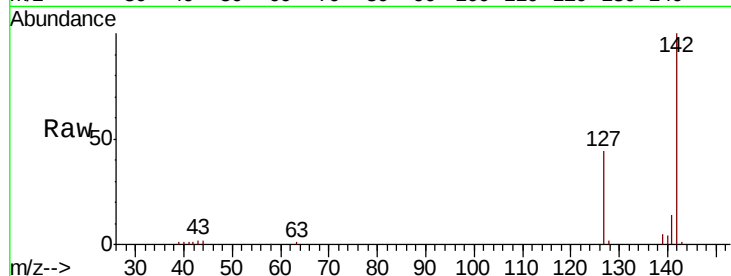




#11  
Methvl Iodide  
Concen: 19.510 ug/l  
RT: 3.93 min Scan# 670  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

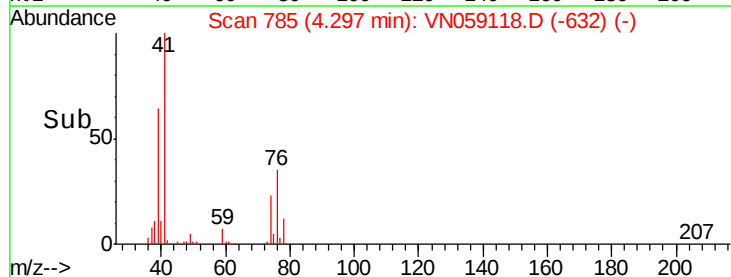
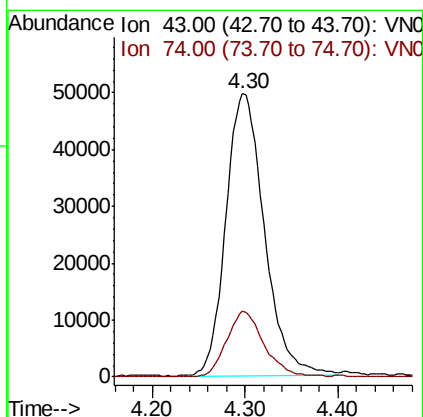
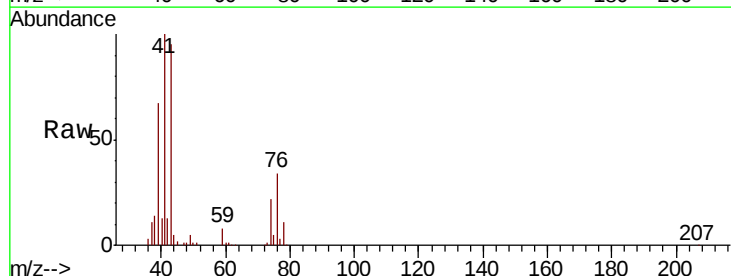
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

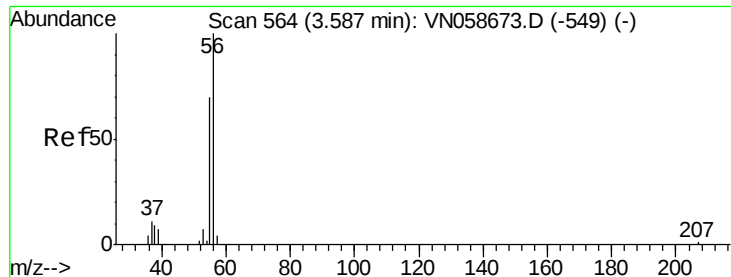
Tot Ion:142 Resp: 105311  
Ion Ratio Lower Upper  
142 100  
127 44.3 23.5 70.6  
141 13.9 7.4 22.2



#12  
Methyl Acetate  
Concen: 23.037 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 43 Resp: 142855  
Ion Ratio Lower Upper  
43 100  
74 23.3 18.1 27.1





#13

Acrolein

Concen: 101.569 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

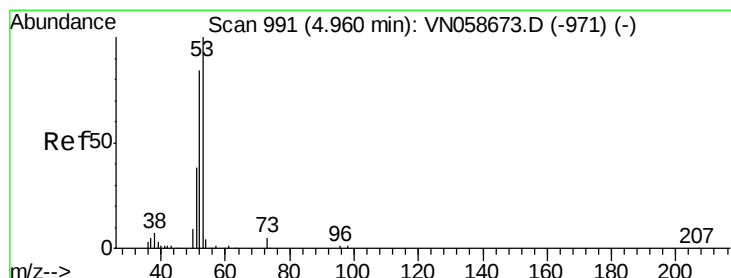
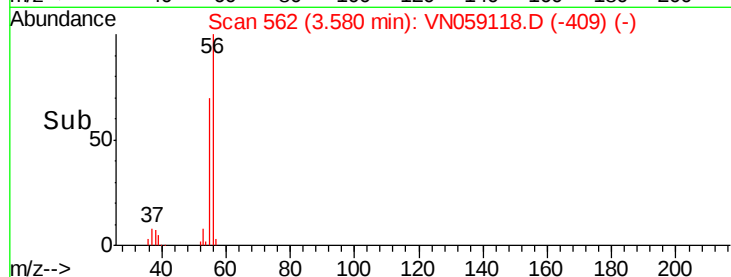
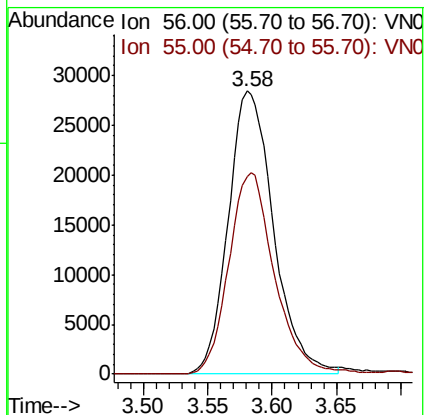
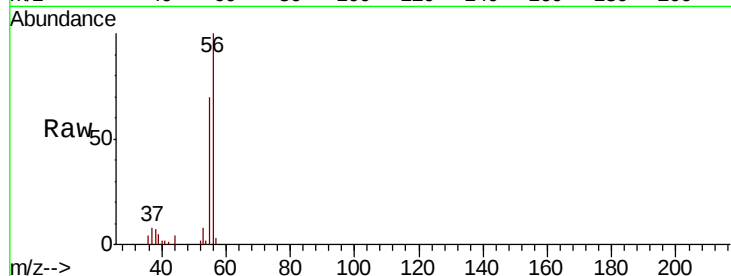
VN1107WBSD01

Tot Ion: 56 Resp: 69592

Ion Ratio Lower Upper

56 100

55 71.1 55.9 83.9



#14

Acrylonitrile

Concen: 117.232 ug/l

RT: 4.95 min Scan# 989

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

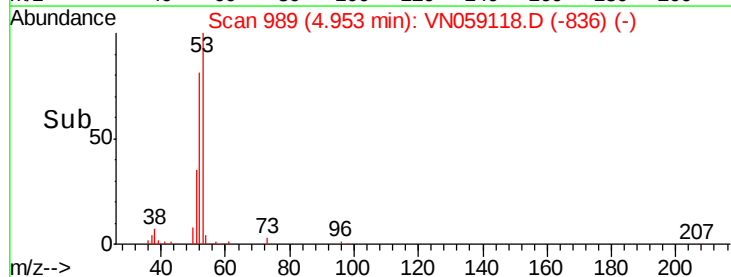
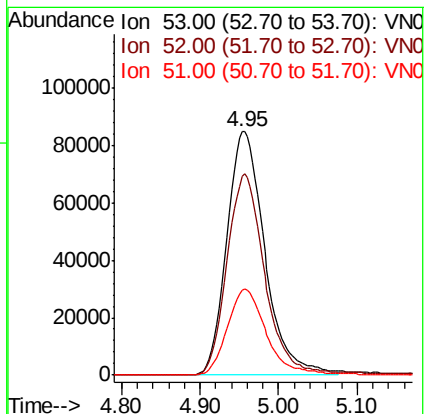
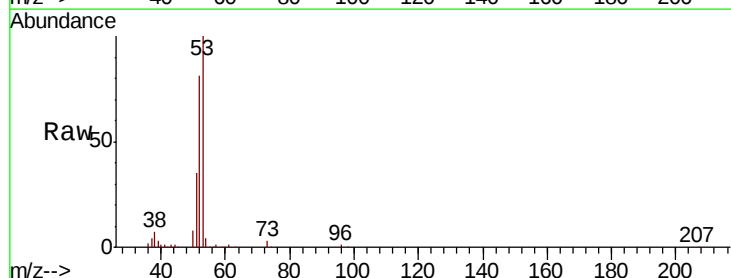
Tgt Ion: 53 Resp: 286445

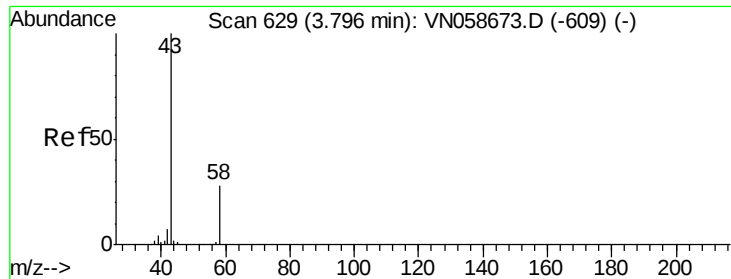
Ion Ratio Lower Upper

53 100

52 81.5 42.2 126.6

51 35.4 18.8 56.4





#15

Acetone

Concen: 125.182 ug/l

RT: 3.79 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

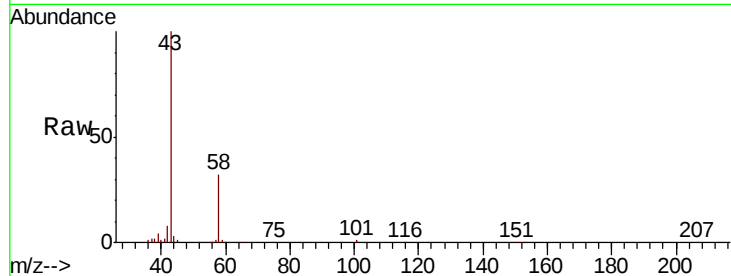
VN1107WBSD01

Tot Ion: 58 Resp: 90793

Ion Ratio Lower Upper

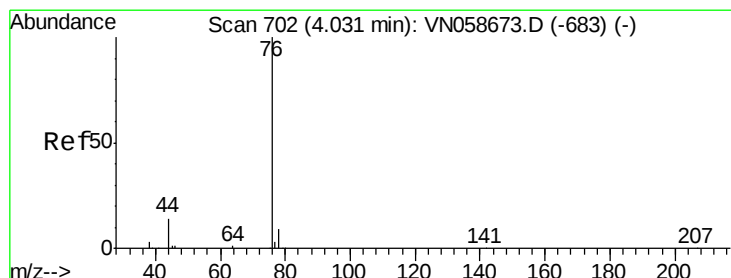
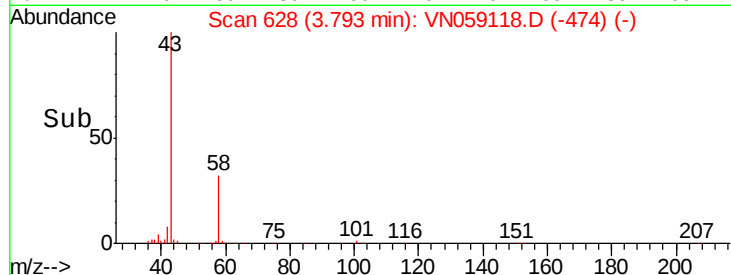
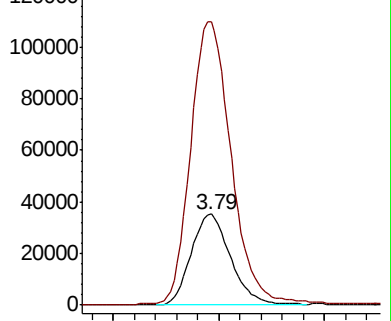
58 100

43 311.1 281.7 422.5



Abundance Ion 58.00 (57.70 to 58.70): VN058673.D (-609) (-)

Ion 43.00 (42.70 to 43.70): VN058673.D (-609) (-)



#16

Carbon Disulfide

Concen: 21.089 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059118.D

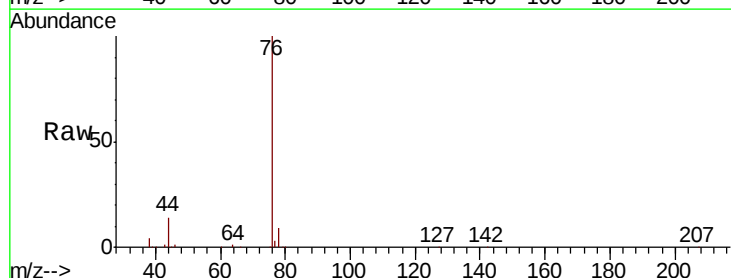
Acq: 7 Nov 2019 13:42

Tgt Ion: 76 Resp: 238411

Ion Ratio Lower Upper

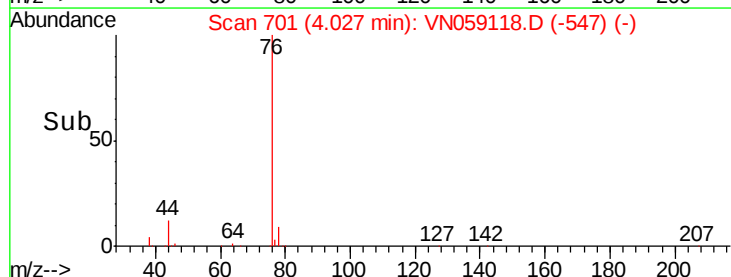
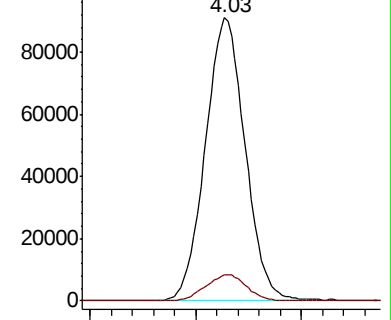
76 100

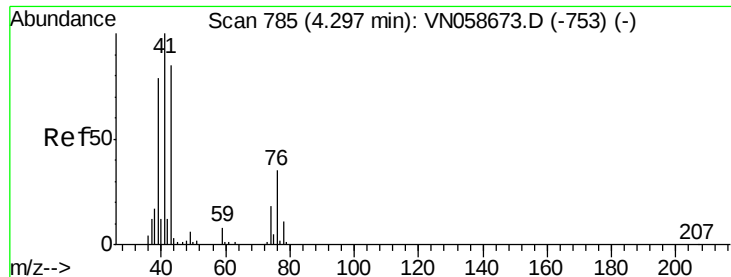
78 9.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN058673.D (-683) (-)

Ion 78.00 (77.70 to 78.70): VN058673.D (-683) (-)

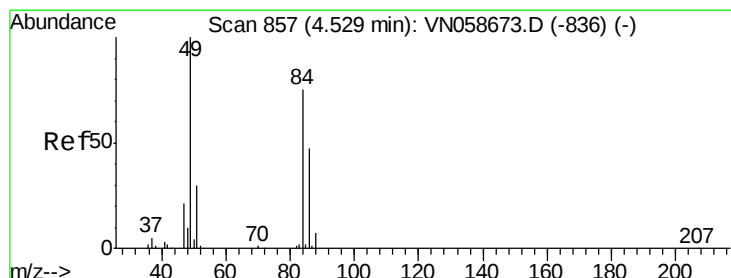
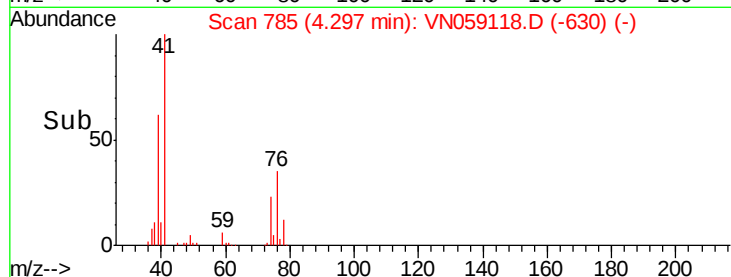
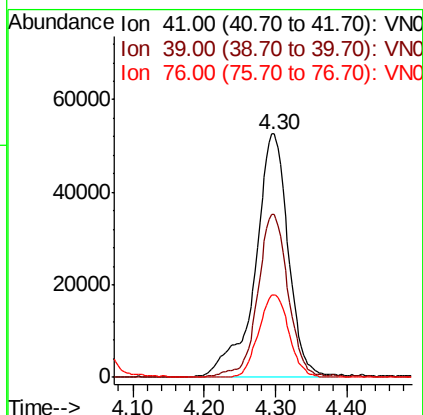
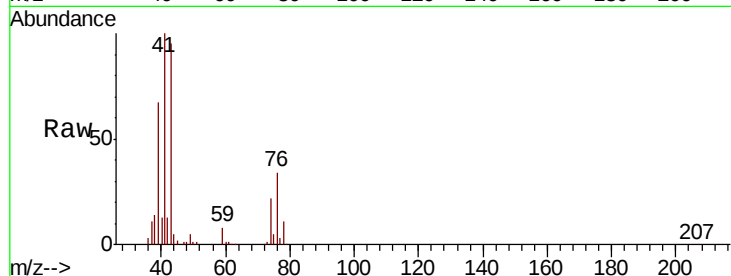




#17  
Allvl chloride  
Concen: 21.979 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

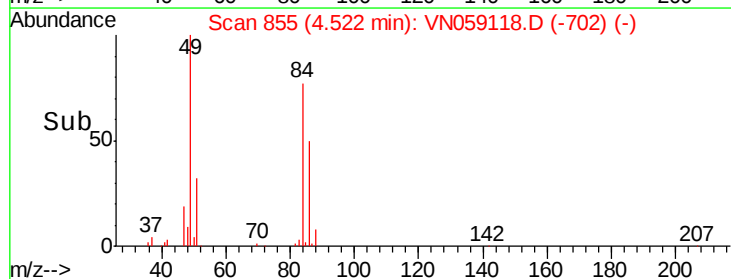
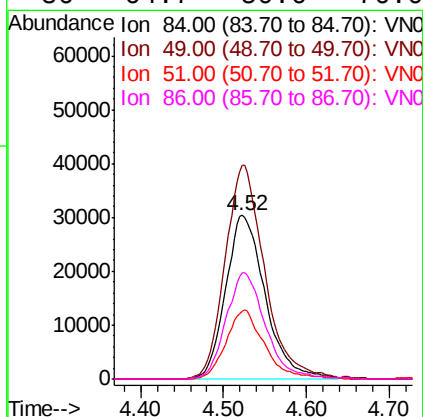
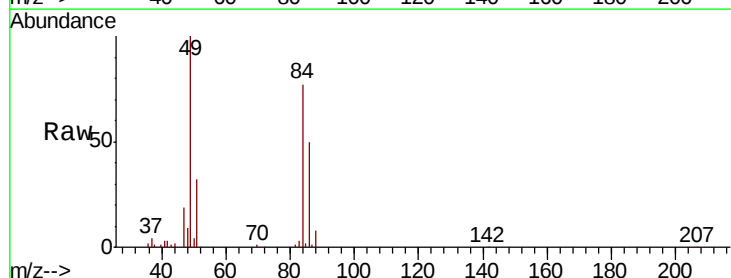
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

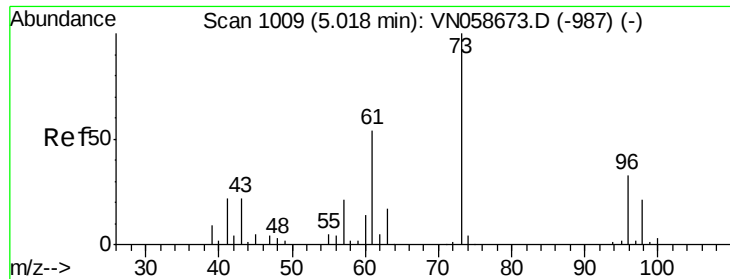
Tot Ion: 41 Resp: 169552  
Ion Ratio Lower Upper  
41 100  
39 67.0 39.6 118.8  
76 34.0 17.6 52.9



#18  
Methylene Chloride  
Concen: 21.525 ug/l  
RT: 4.52 min Scan# 855  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 84 Resp: 101026  
Ion Ratio Lower Upper  
84 100  
49 129.6 106.6 160.0  
51 41.7 32.4 48.6  
86 64.7 50.6 76.0

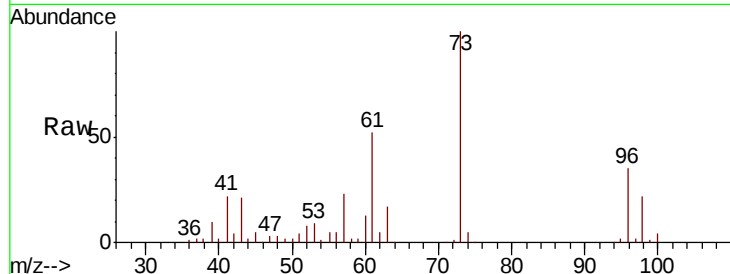




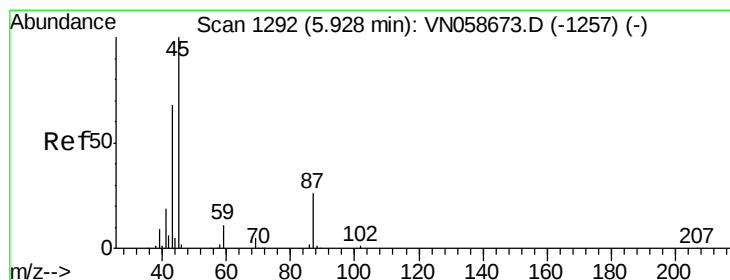
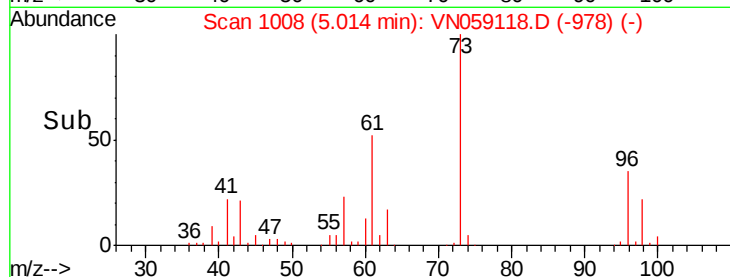
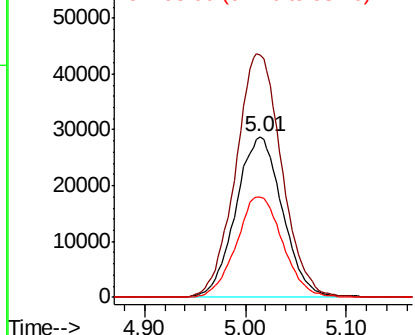
#19  
trans-1,2-Dichloroethene  
Concen: 21.818 ug/l  
RT: 5.01 min Scan# 1008  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

Tot Ion: 96 Resp: 92060  
Ion Ratio Lower Upper  
96 100  
61 150.9 131.8 197.6  
98 62.2 52.6 79.0

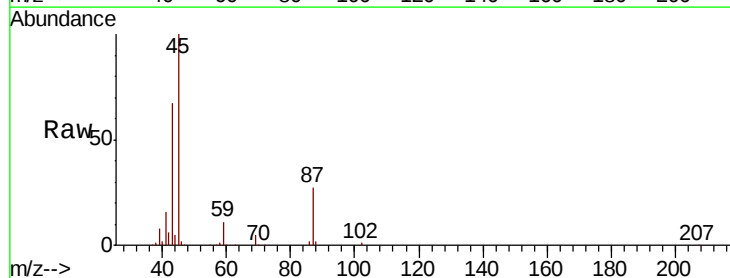


Abundance Ion 96.00 (95.70 to 96.70): VN0  
Ion 61.00 (60.70 to 61.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

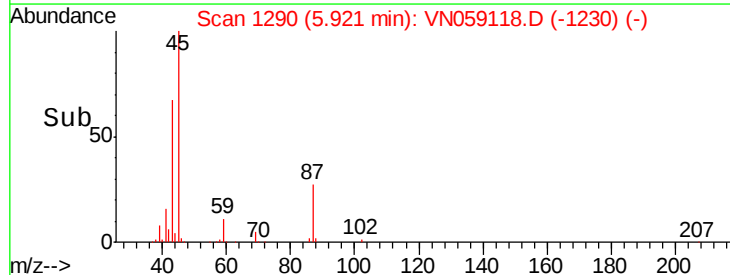
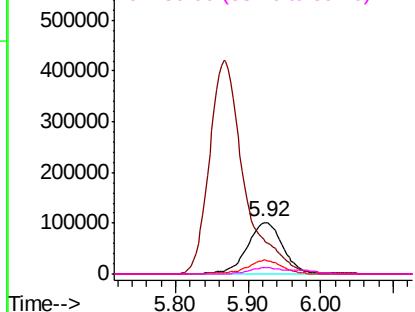


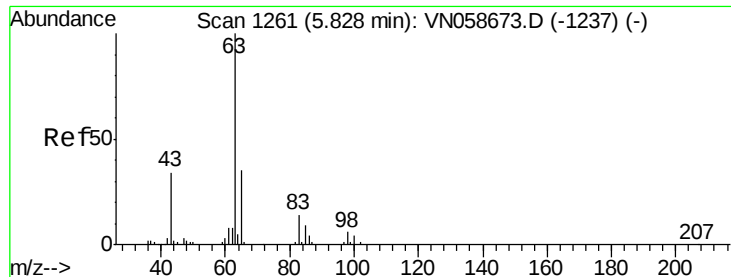
#20  
Diisopropyl ether  
Concen: 22.074 ug/l  
RT: 5.92 min Scan# 1290  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 45 Resp: 346946  
Ion Ratio Lower Upper  
45 100  
43 65.3 54.7 82.1  
87 26.5 21.5 32.3  
59 11.2 8.7 13.1



Abundance Ion 45.00 (44.70 to 45.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 87.00 (86.70 to 87.70): VN0  
Ion 59.00 (58.70 to 59.70): VN0





#21

1,1-Dichloroethane

Concen: 21.816 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

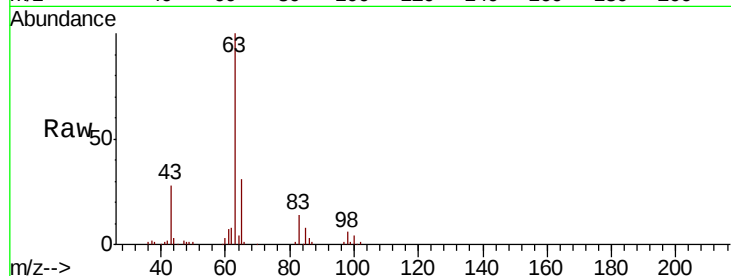
Tot Ion: 63 Resp: 189878

Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.6

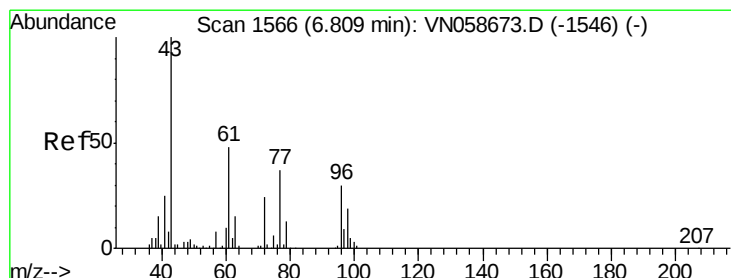
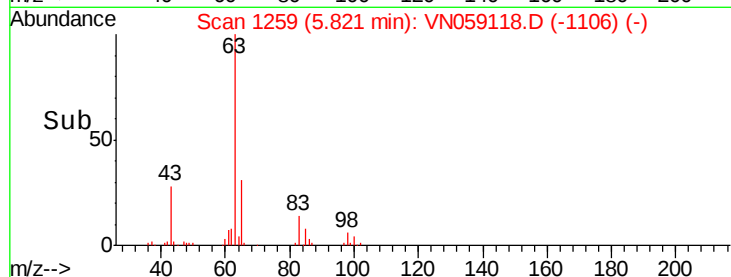
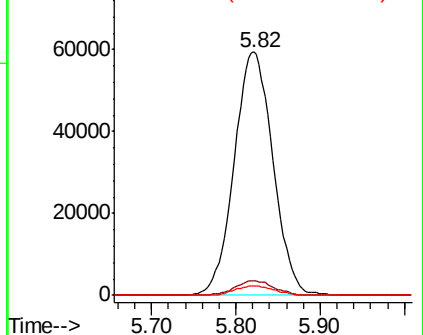
100 3.8 1.8 5.5



Abundance Ion 63.00 (62.70 to 63.70): VN059118.D (-1106) (-)

Ion 98.00 (97.70 to 98.70): VN059118.D (-1106) (-)

Ion 100.00 (99.70 to 100.70): VN059118.D (-1106) (-)



#22

cis-1,2-Dichloroethene

Concen: 21.668 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

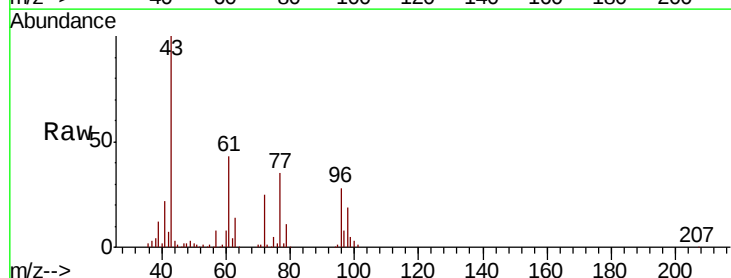
Tgt Ion: 96 Resp: 109007

Ion Ratio Lower Upper

96 100

61 153.3 127.2 190.8

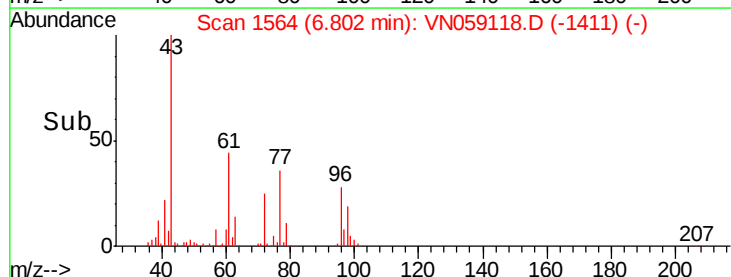
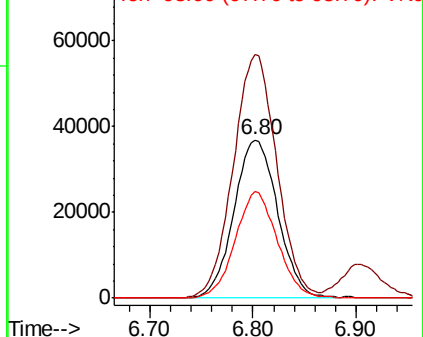
98 64.7 50.5 75.7

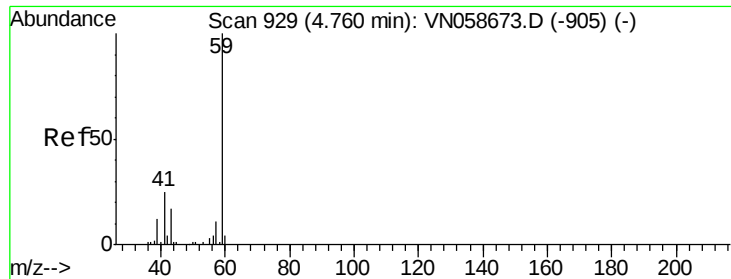


Abundance Ion 96.00 (95.70 to 96.70): VN059118.D (-1411) (-)

Ion 61.00 (60.70 to 61.70): VN059118.D (-1411) (-)

Ion 98.00 (97.70 to 98.70): VN059118.D (-1411) (-)



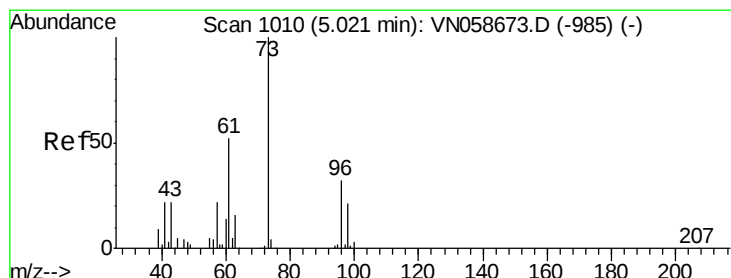
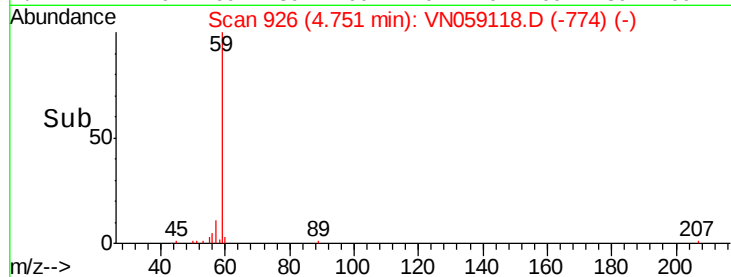
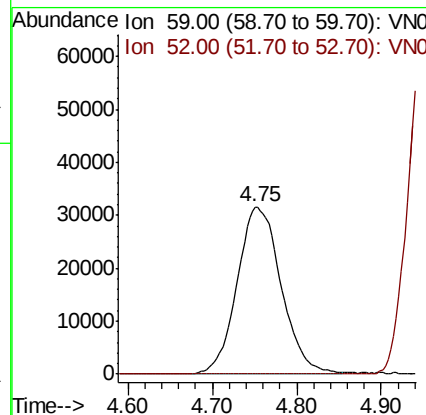
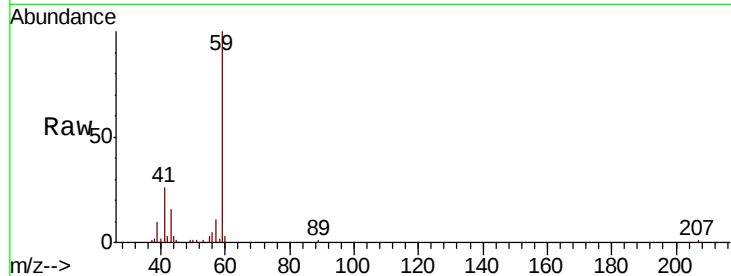


#23

tert-Butyl Alcohol  
 Concen: 114.790 ug/l  
 RT: 4.75 min Scan# 926  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

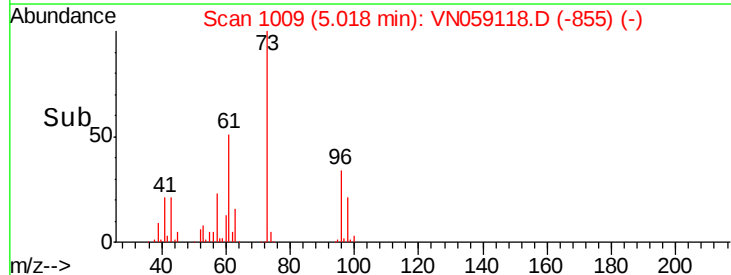
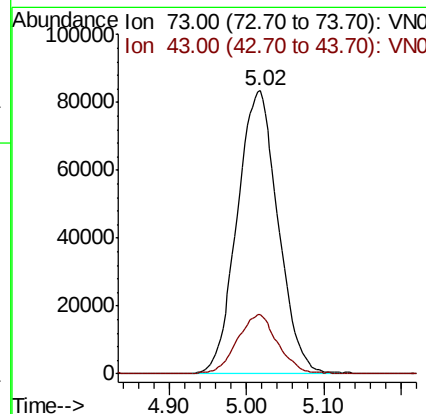
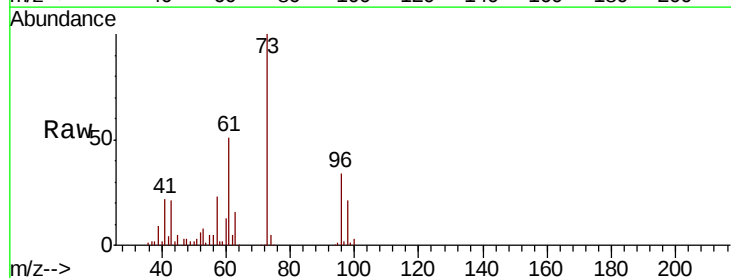
Tot Ion: 59 Resp: 114722  
 Ion Ratio Lower Upper  
 59 100  
 52 0.1 0.0 0.0#

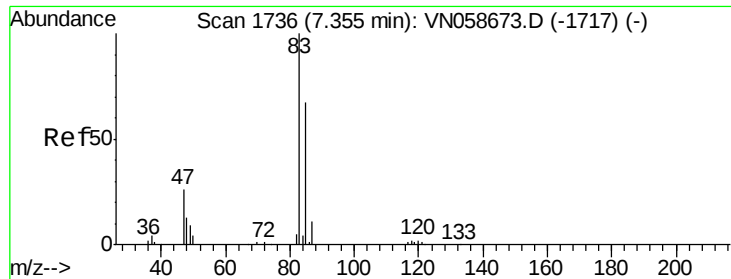


#24

Methyl tert-Butyl Ether  
 Concen: 21.208 ug/l  
 RT: 5.02 min Scan# 1009  
 Delta R.T. -0.00 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Tgt Ion: 73 Resp: 306651  
 Ion Ratio Lower Upper  
 73 100  
 43 20.7 17.9 26.9





#25

Chloroform

Concen: 21.139 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

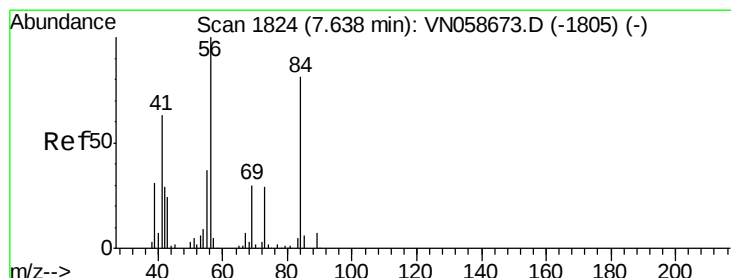
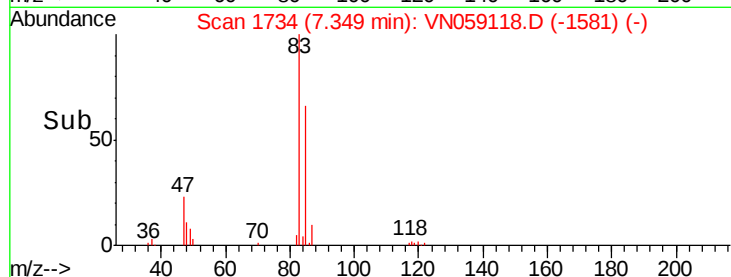
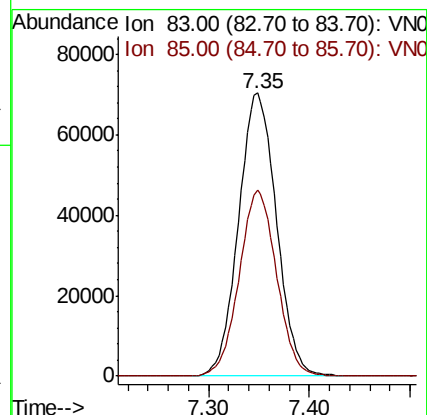
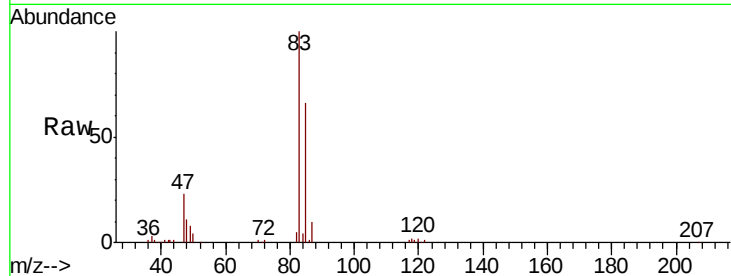
VN1107WBSD01

Tot Ion: 83 Resp: 183495

Ion Ratio Lower Upper

83 100

85 65.6 53.8 80.8



#26

Cyclohexane

Concen: 21.027 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

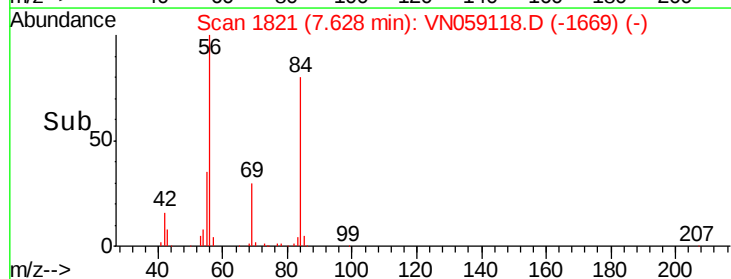
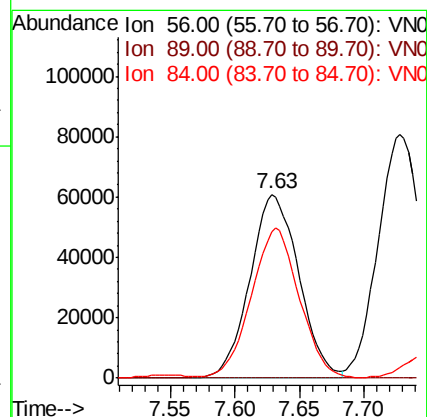
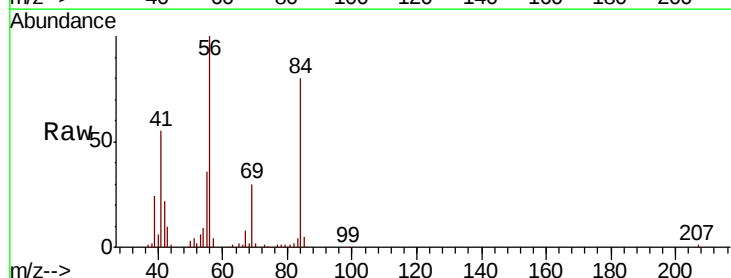
Tgt Ion: 56 Resp: 160628

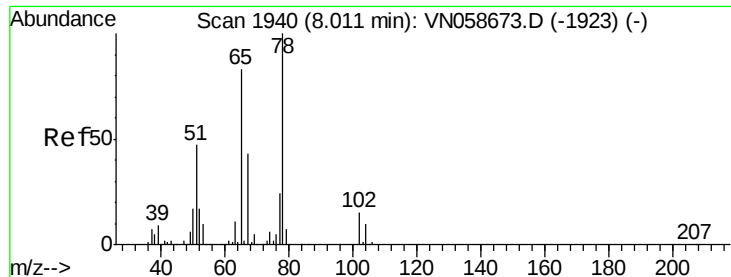
Ion Ratio Lower Upper

56 100

89 0.0 6.2 9.2#

84 80.2 65.6 98.4





#27

1,2-Dichloroethane-d4

Concen: 28.193 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

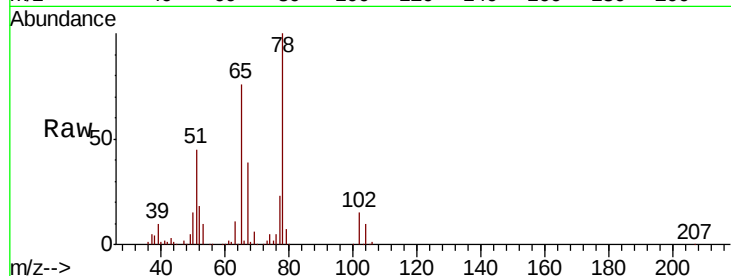
VN1107WBSD01

Tot Ion: 65 Resp: 177254

Ion Ratio Lower Upper

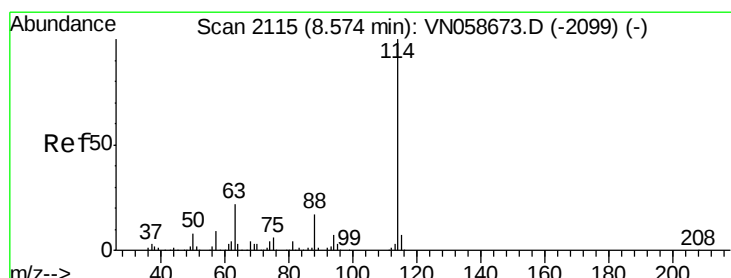
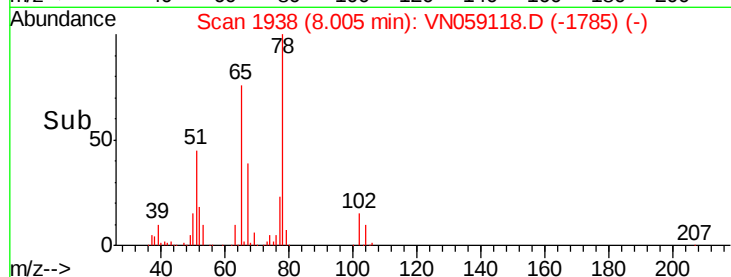
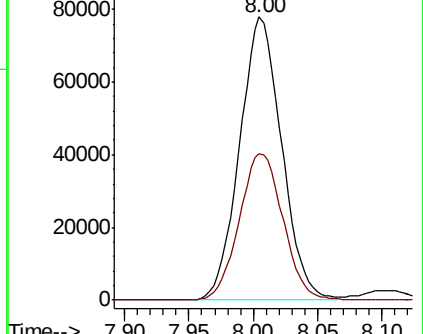
65 100

67 53.7 41.5 62.3



Abundance Ion 65.00 (64.70 to 65.70): VN058673.D (-1923) (-)

Ion 67.00 (66.70 to 67.70): VN058673.D (-1923) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

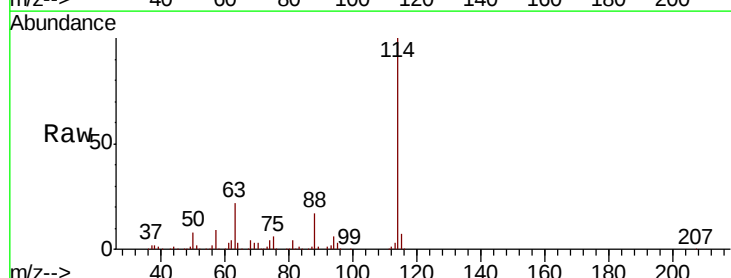
Tgt Ion: 114 Resp: 416087

Ion Ratio Lower Upper

114 100

63 22.0 18.1 27.1

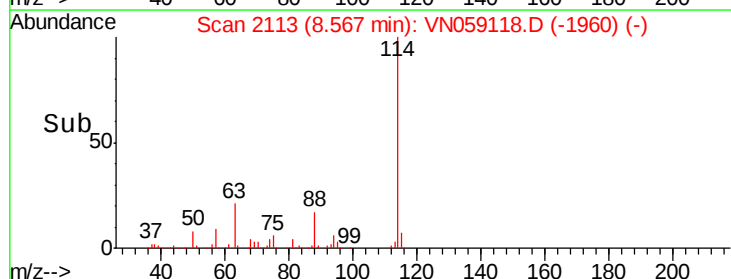
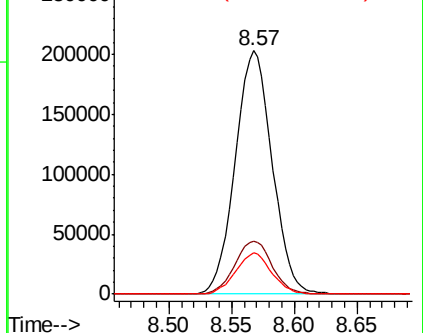
88 16.6 13.0 19.4

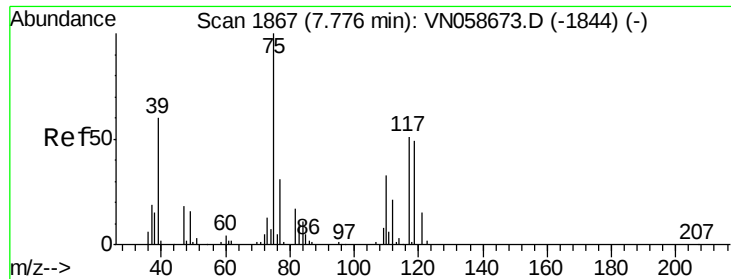


Abundance Ion 114.00 (113.70 to 114.70): VN058673.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN058673.D (-2099) (-)

Ion 88.00 (87.70 to 88.70): VN058673.D (-2099) (-)

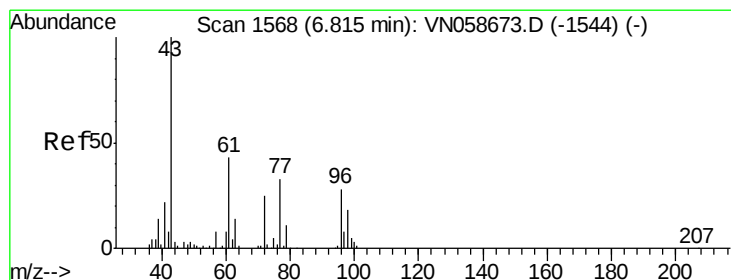
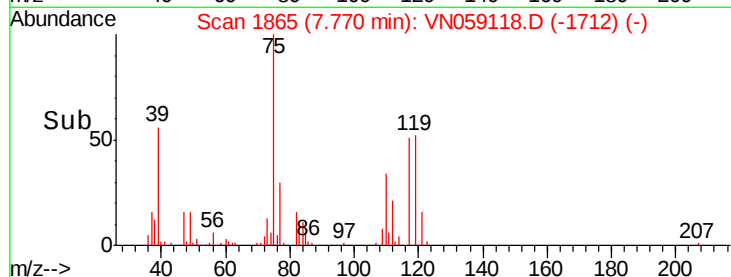
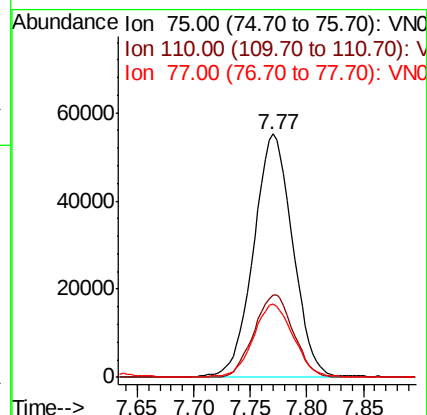
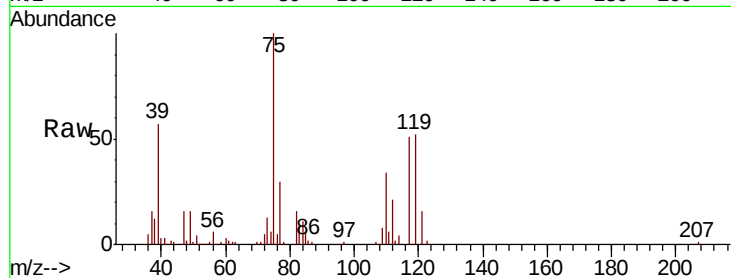




#29  
 1,1-Dichloropropene  
 Concen: 20.295 ug/l  
 RT: 7.77 min Scan# 1865  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

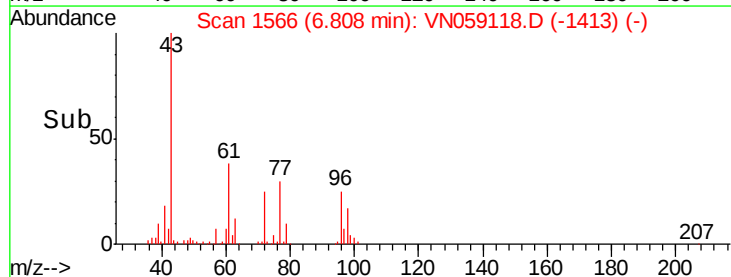
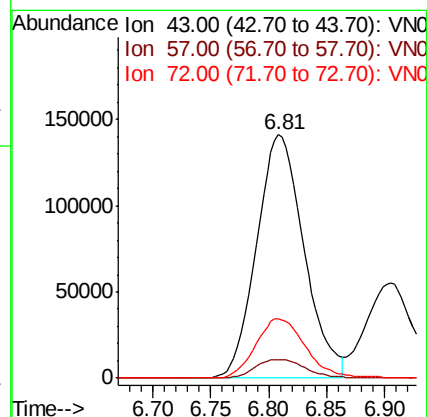
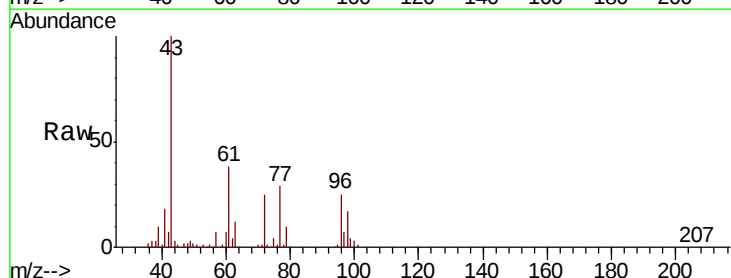
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

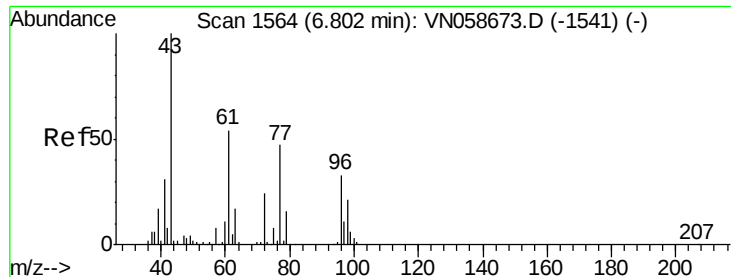
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 34.0  | 0.0   | 64.6  |
| 77      | 31.0  | 0.0   | 60.8  |



#30  
 2-Butanone  
 Concen: 108.016 ug/l  
 RT: 6.81 min Scan# 1566  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 4.0   | 6.5   | 9.7#  |
| 72      | 25.9  | 20.1  | 30.1  |

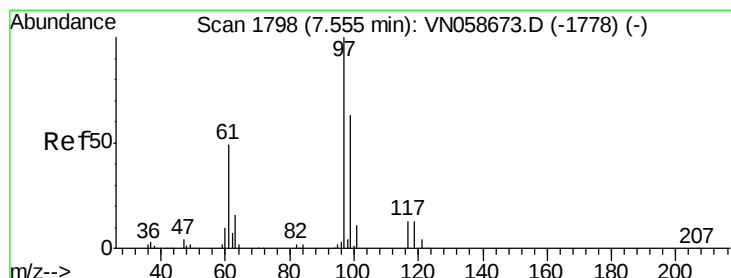
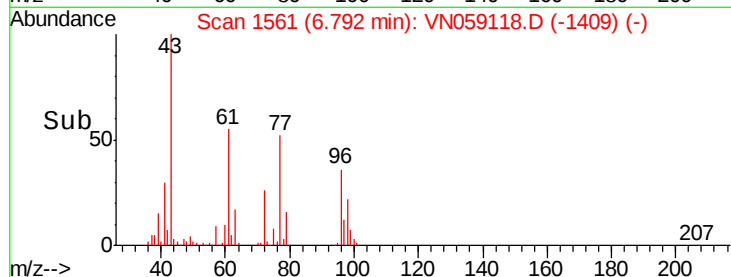
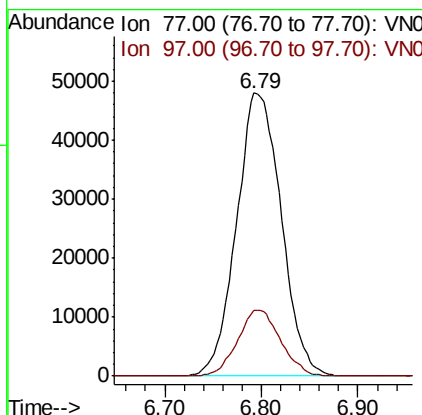
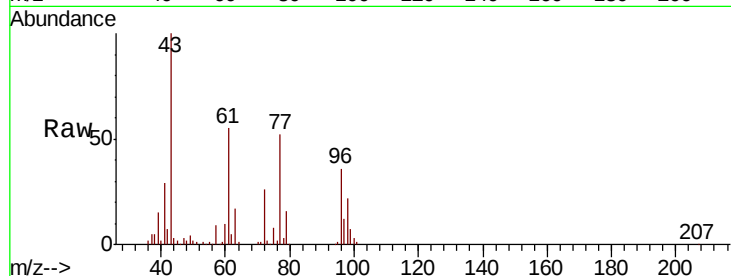




#31  
 2,2-Dichloropropane  
 Concen: 19.957 ug/l  
 RT: 6.79 min Scan# 1561  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

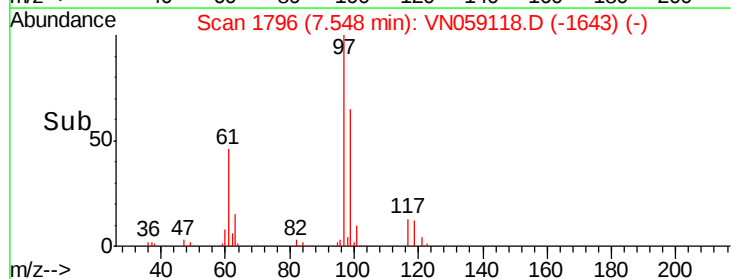
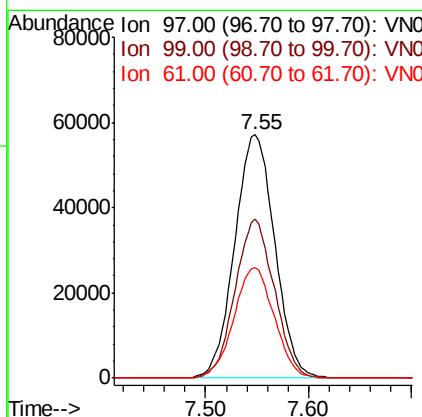
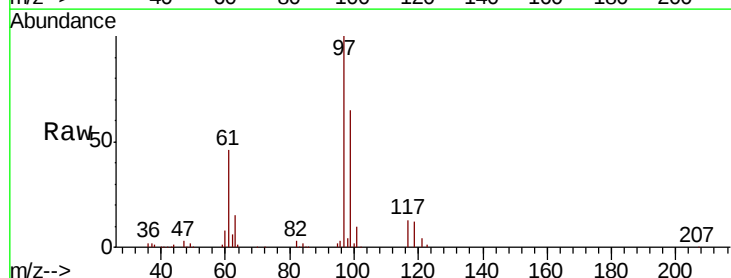
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

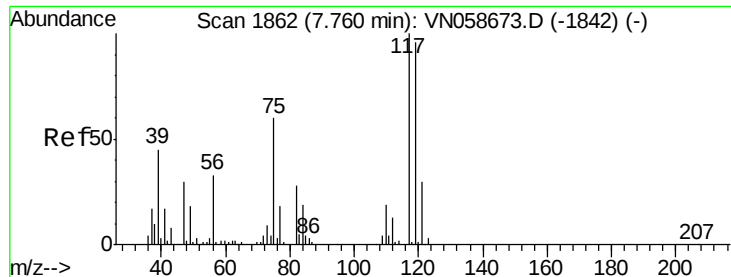
Tot Ion: 77 Resp: 154068  
 Ion Ratio Lower Upper  
 77 100  
 97 22.4 17.9 26.9



#32  
 1,1,1-Trichloroethane  
 Concen: 20.419 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Tgt Ion: 97 Resp: 154683  
 Ion Ratio Lower Upper  
 97 100  
 99 63.8 51.3 76.9  
 61 45.7 38.4 57.6





#33

Carbon Tetrachloride

Concen: 20.139 ug/l

RT: 7.75 min Scan# 1860

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

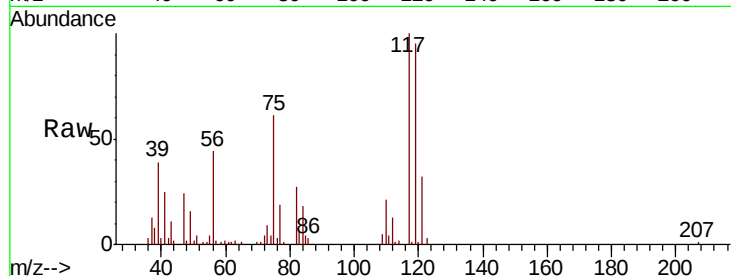
Tot Ion:117 Resp: 132056

Ion Ratio Lower Upper

117 100

119 95.0 76.9 115.3

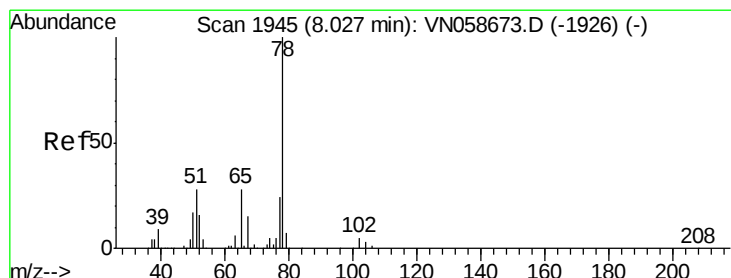
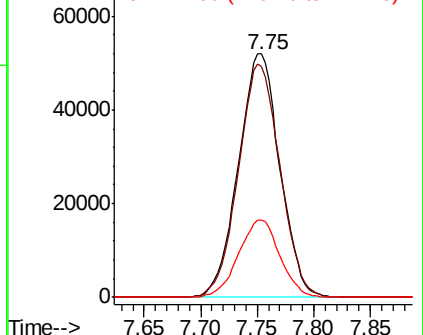
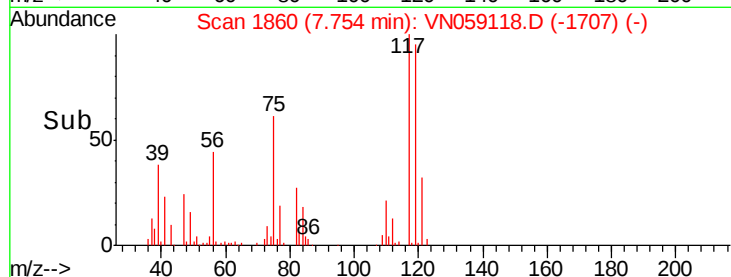
121 31.9 23.8 35.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 21.290 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

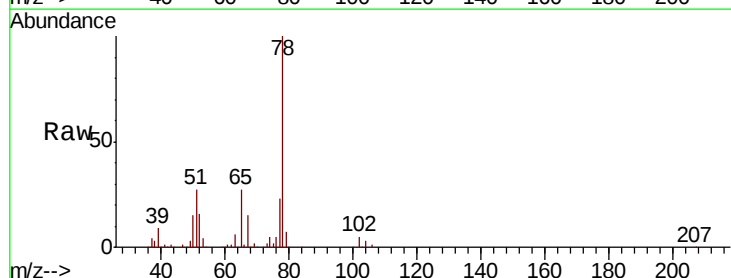
Tgt Ion: 78 Resp: 410528

Ion Ratio Lower Upper

78 100

77 23.3 19.2 28.8

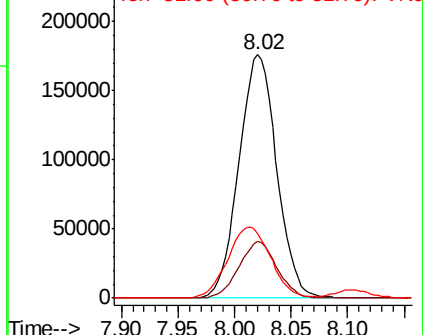
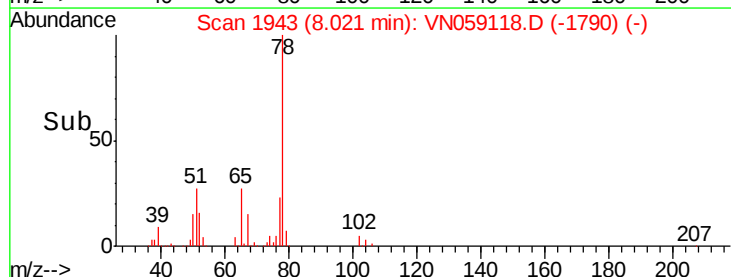
51 26.4 22.1 33.1

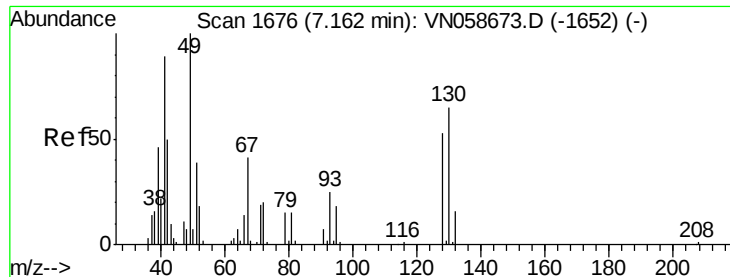


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

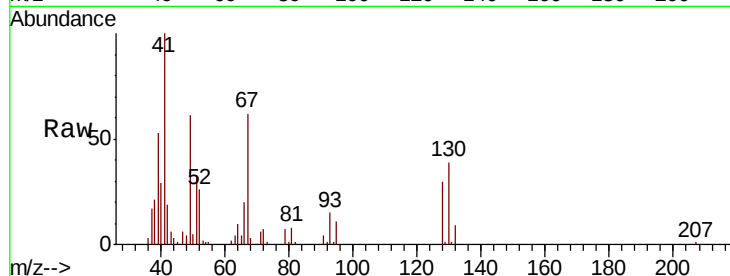




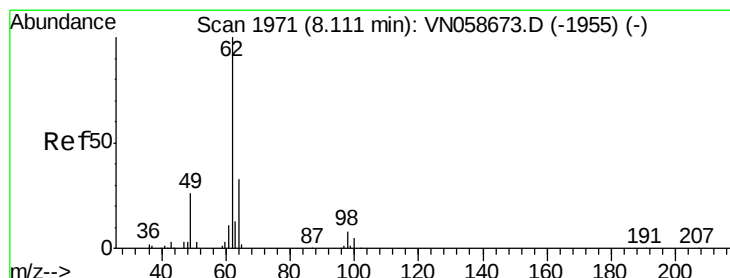
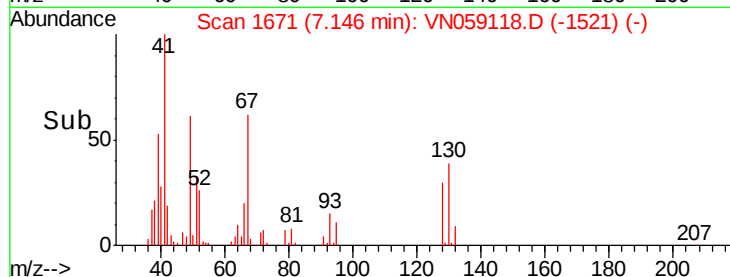
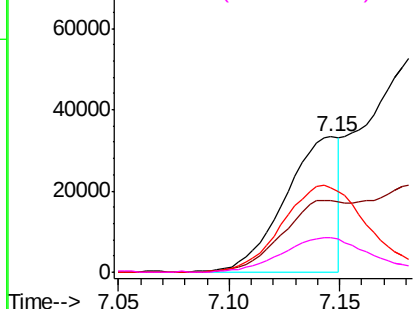
#35  
Methacrylonitrile  
Concen: 17.293 ug/l  
RT: 7.15 min Scan# 1671  
Delta R.T. -0.02 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Instrument :  
MSVOA\_N  
ClientSampled :  
VN1107WBSD01

Tot Ion: 41 Resp: 56544  
Ion Ratio Lower Upper  
41 100  
39 53.0 25.8 77.4  
67 62.4 23.0 69.0  
52 25.8 10.1 30.1

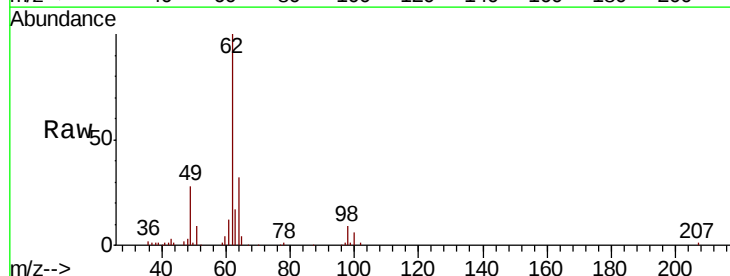


Abundance Ion 41.00 (40.70 to 41.70): VNC  
Ion 39.00 (38.70 to 39.70): VNC  
Ion 67.00 (66.70 to 67.70): VNC  
Ion 52.00 (51.70 to 52.70): VNC

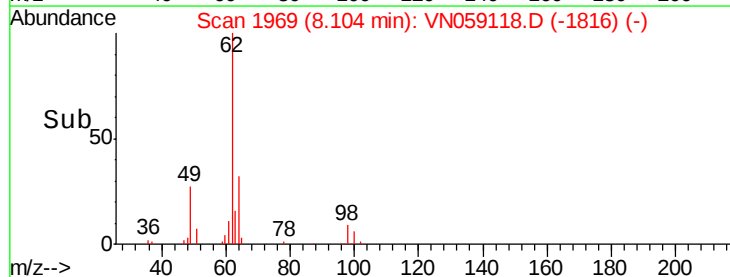
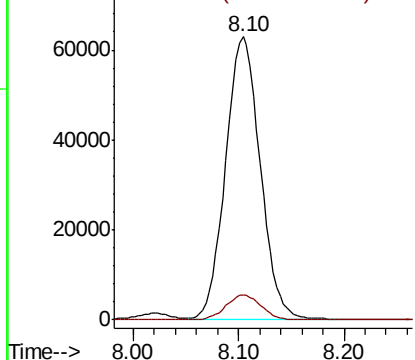


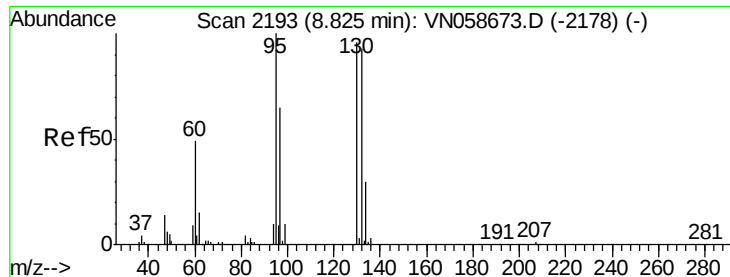
#36  
1,2-Dichloroethane  
Concen: 19.549 ug/l  
RT: 8.10 min Scan# 1969  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 62 Resp: 144124  
Ion Ratio Lower Upper  
62 100  
98 8.8 6.4 9.6



Abundance Ion 62.00 (61.70 to 62.70): VNC  
Ion 98.00 (97.70 to 98.70): VNC

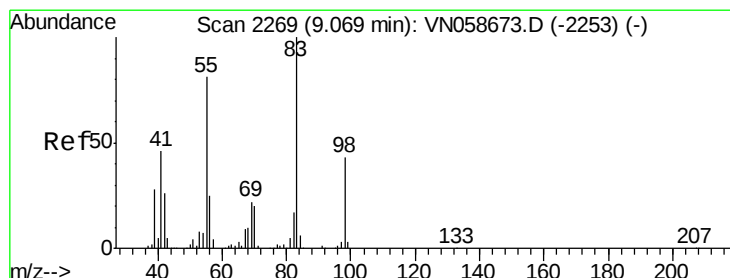
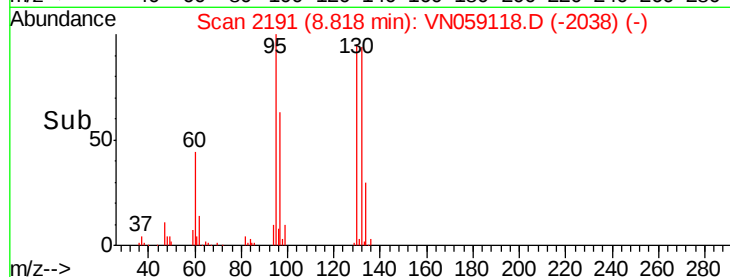
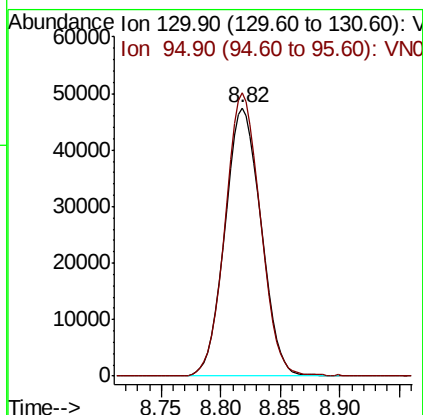
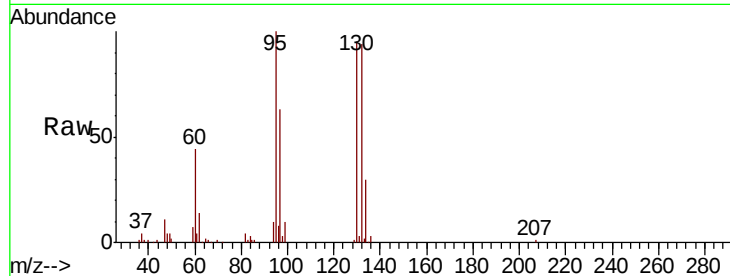




#37  
 Trichloroethene  
 Concen: 21.096 ug/l  
 RT: 8.82 min Scan# 2191  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

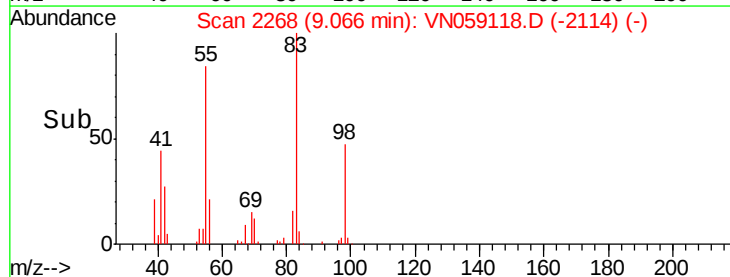
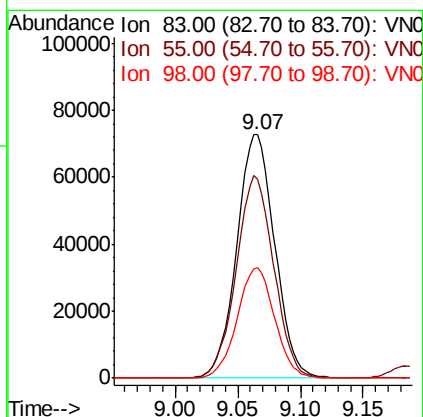
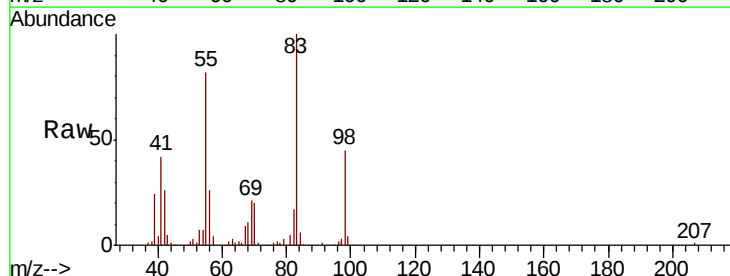
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

Tot Ion:130 Resp: 99934  
 Ion Ratio Lower Upper  
 130 100  
 95 105.2 83.2 124.8



#38  
 Methylcyclohexane  
 Concen: 20.153 ug/l  
 RT: 9.07 min Scan# 2268  
 Delta R.T. -0.00 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Tgt Ion: 83 Resp: 153044  
 Ion Ratio Lower Upper  
 83 100  
 55 82.3 40.4 121.1  
 98 44.7 21.6 65.0





#39

1,2-Dichloropropane

Concen: 21.776 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

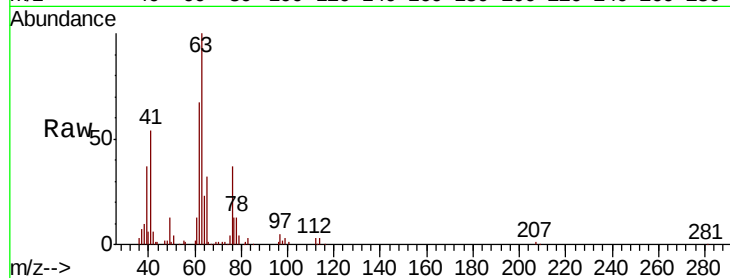
VN1107WBSD01

Tot Ion: 63 Resp: 114751

Ion Ratio Lower Upper

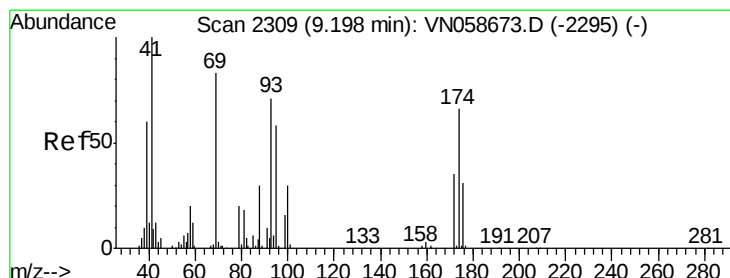
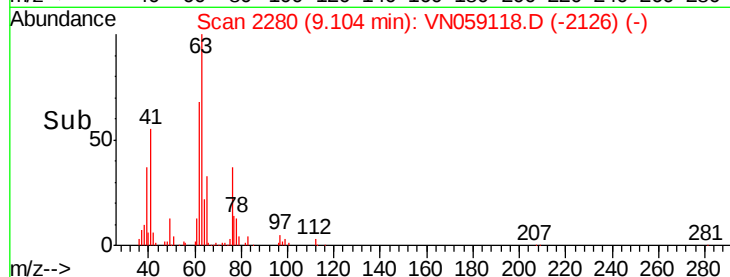
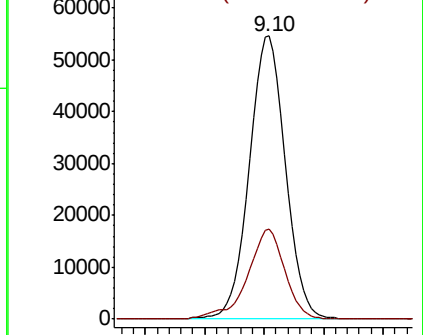
63 100

65 32.0 23.8 35.6



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 20.660 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

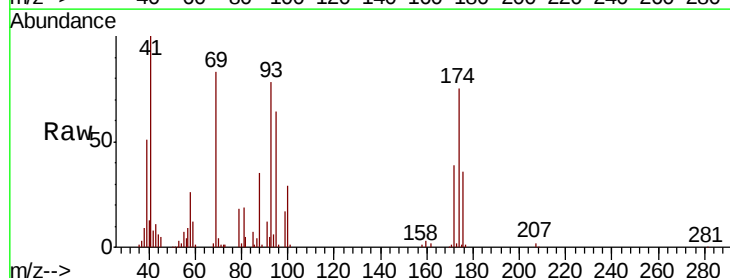
Tgt Ion: 93 Resp: 68727

Ion Ratio Lower Upper

93 100

95 84.5 0.0 167.6

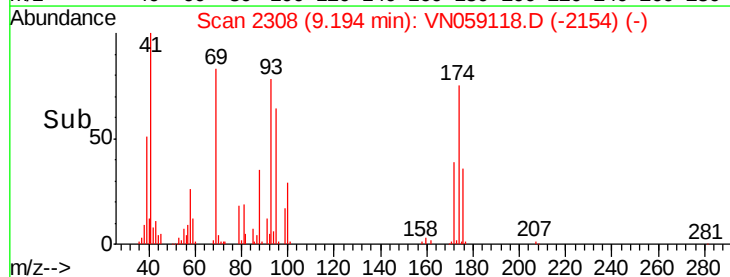
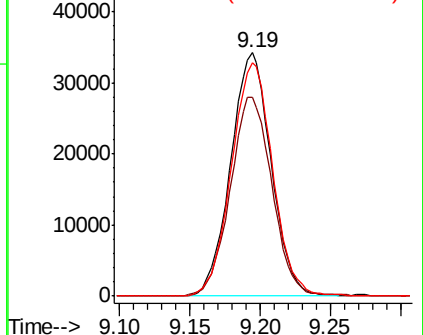
174 97.7 0.0 187.2

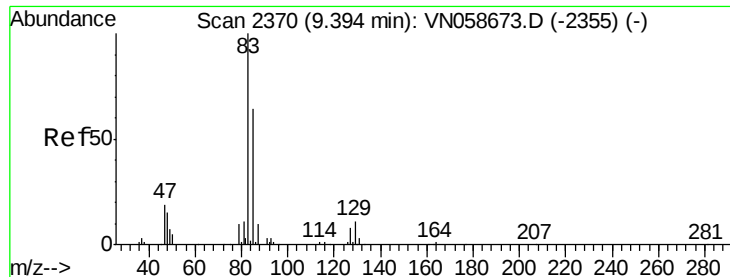


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 20.833 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

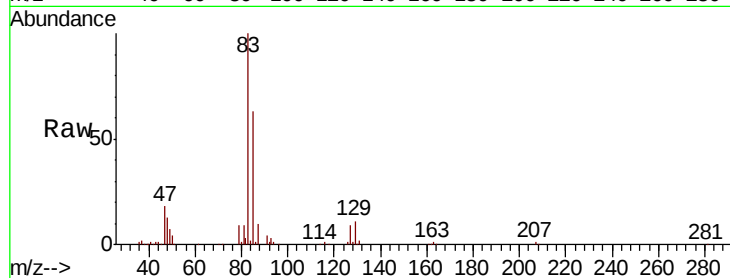
Tot Ion: 83 Resp: 141581

Ion Ratio Lower Upper

83 100

85 62.7 51.0 76.4

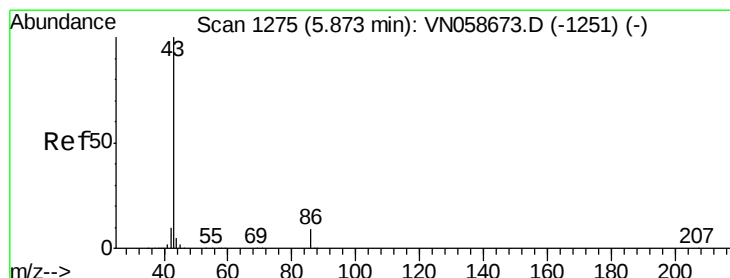
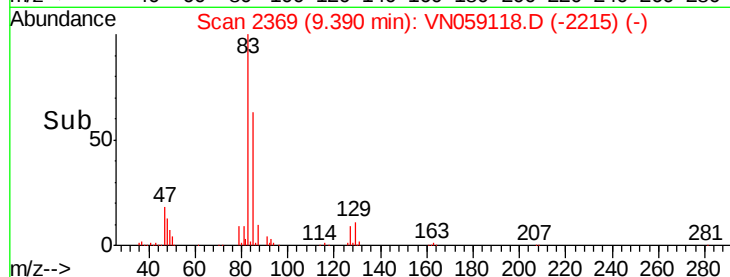
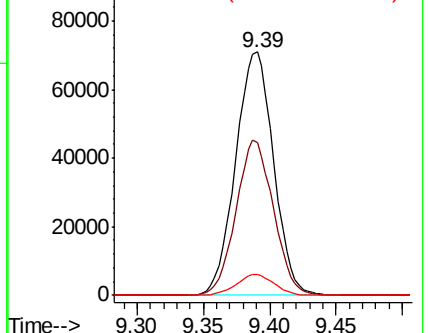
127 8.7 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN058673.D (-2355) (-)

Ion 85.00 (84.70 to 85.70): VN058673.D (-2355) (-)

Ion 127.00 (126.70 to 127.70): VN058673.D (-2355) (-)



#42

Vinyl Acetate

Concen: 108.421 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VN059118.D

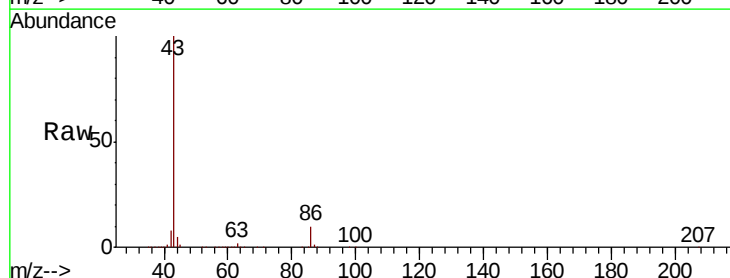
Acq: 7 Nov 2019 13:42

Tgt Ion: 43 Resp: 1405439

Ion Ratio Lower Upper

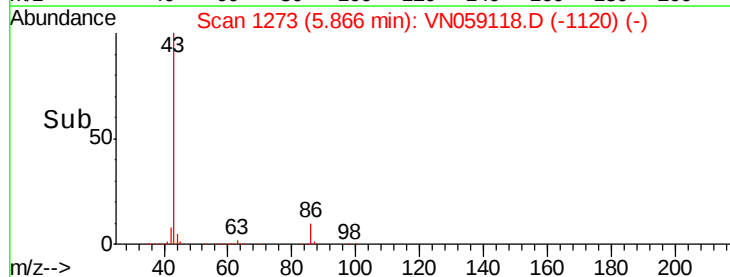
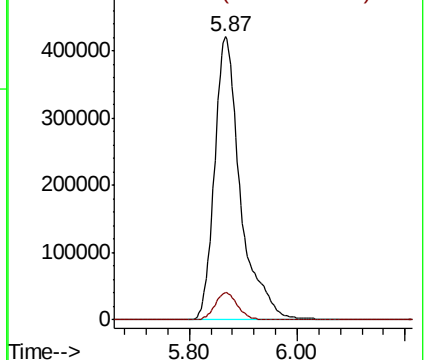
43 100

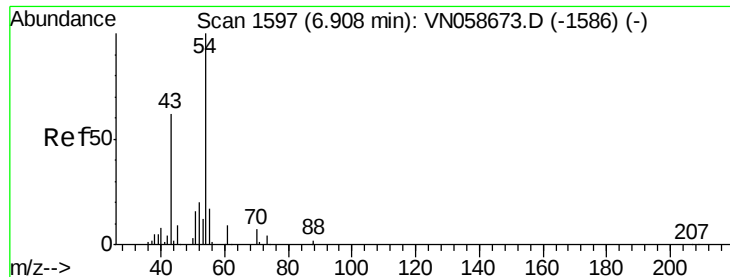
86 8.5 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VN058673.D (-1251) (-)

Ion 86.00 (85.70 to 86.70): VN058673.D (-1251) (-)

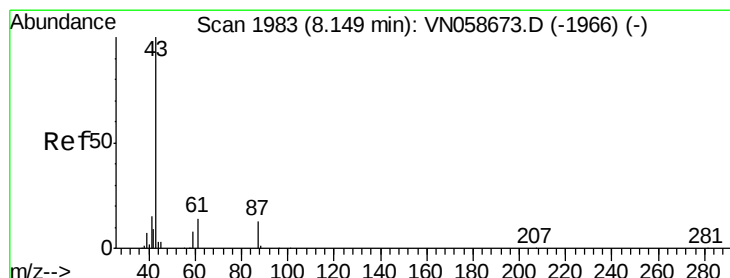
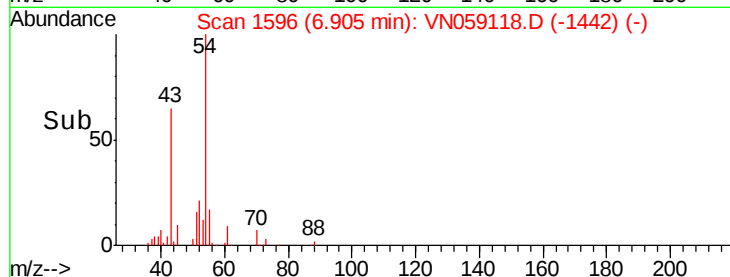
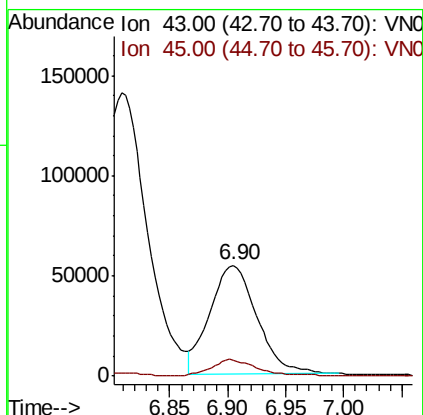
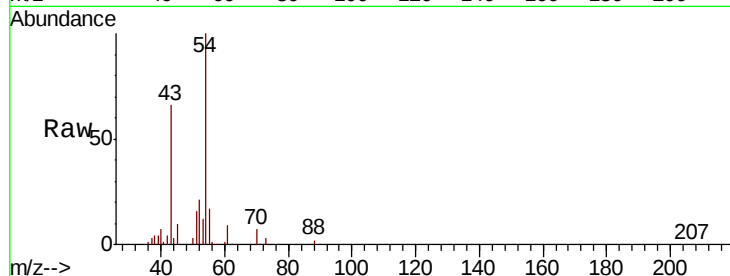




#43  
Ethyl Acetate  
Concen: 21.104 ug/l  
RT: 6.90 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

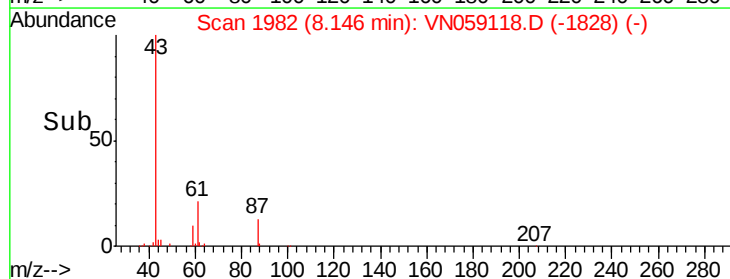
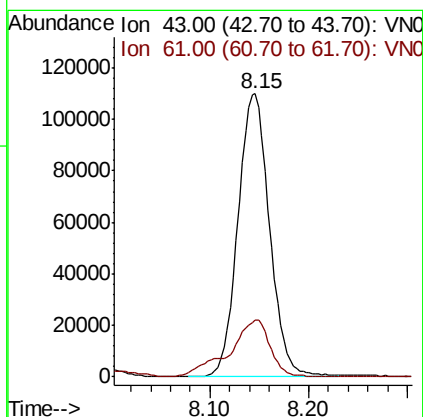
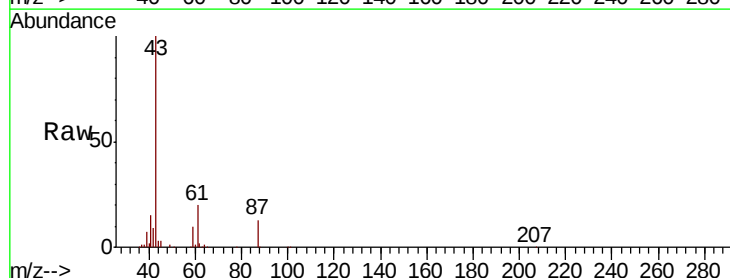
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

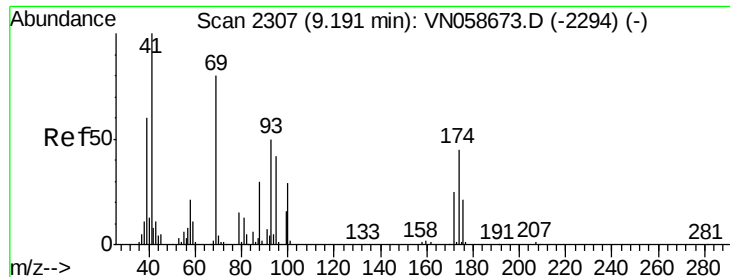
Tot Ion: 43 Resp: 153315  
Ion Ratio Lower Upper  
43 100  
45 13.4 9.7 14.5



#44  
Isopropyl Acetate  
Concen: 20.632 ug/l  
RT: 8.15 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 43 Resp: 242790  
Ion Ratio Lower Upper  
43 100  
61 20.5 19.9 29.9

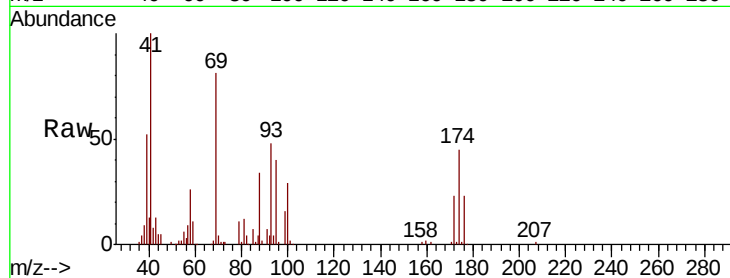




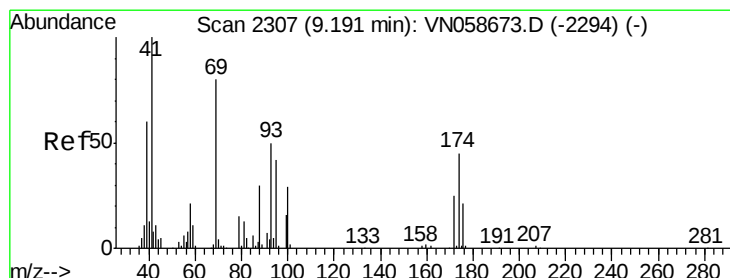
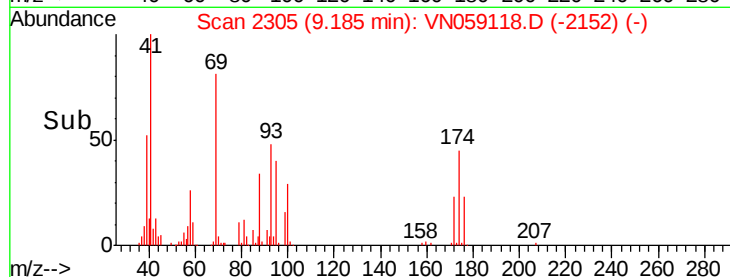
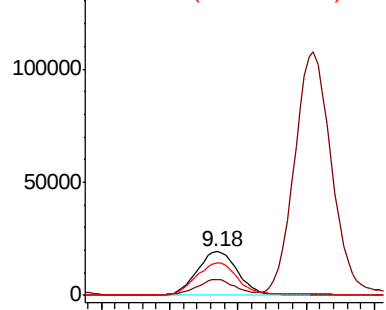
#45  
 1,4-Dioxane  
 Concen: 450.504 ug/l  
 RT: 9.18 min Scan# 2305  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

Tot Ion: 88 Resp: 40707  
 Ion Ratio Lower Upper  
 88 100  
 43 34.8 29.8 44.8  
 58 74.7 58.2 87.4

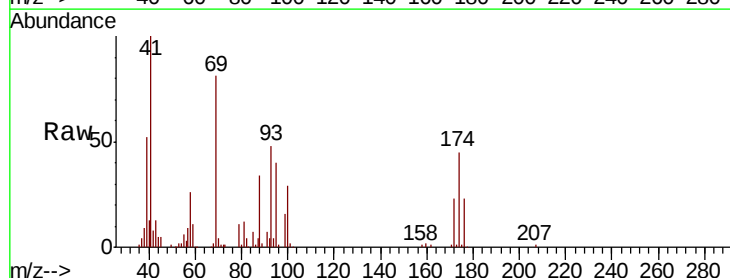


Abundance Ion 88.00 (87.70 to 88.70): VNO  
 Ion 43.00 (42.70 to 43.70): VNO  
 Ion 58.00 (57.70 to 58.70): VNO

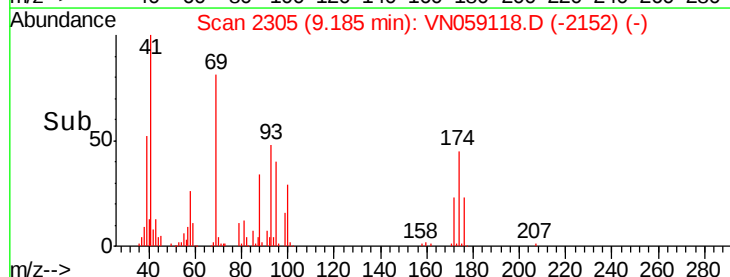
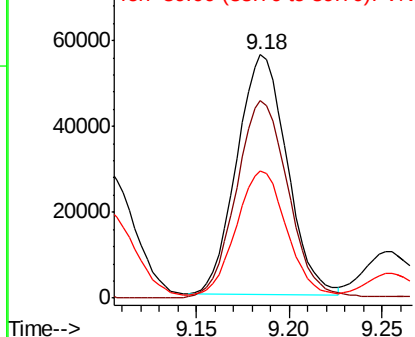


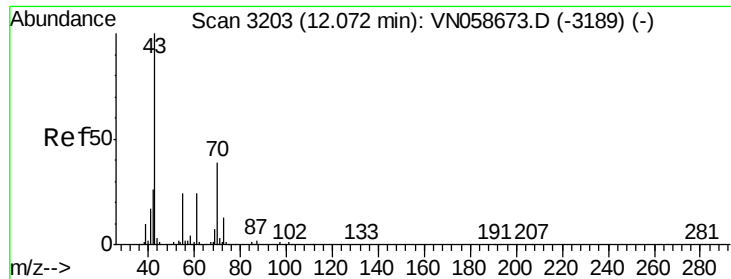
#46  
 Methyl methacrylate  
 Concen: 19.528 ug/l  
 RT: 9.18 min Scan# 2305  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Tgt Ion: 41 Resp: 105494  
 Ion Ratio Lower Upper  
 41 100  
 69 81.8 40.2 120.5  
 39 51.8 29.9 89.8



Abundance Ion 41.00 (40.70 to 41.70): VNO  
 Ion 69.00 (68.70 to 69.70): VNO  
 Ion 39.00 (38.70 to 39.70): VNO

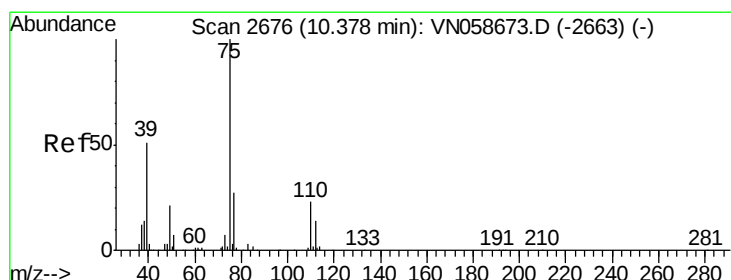
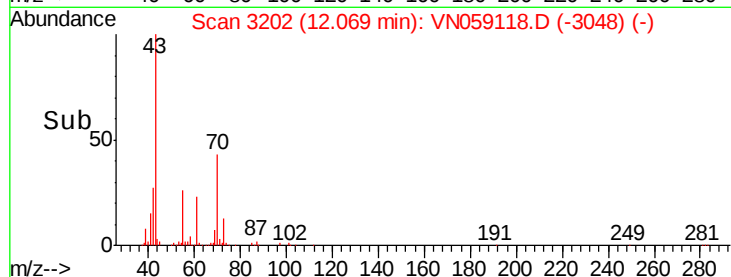
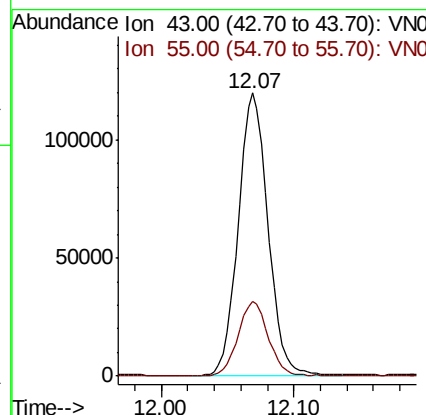
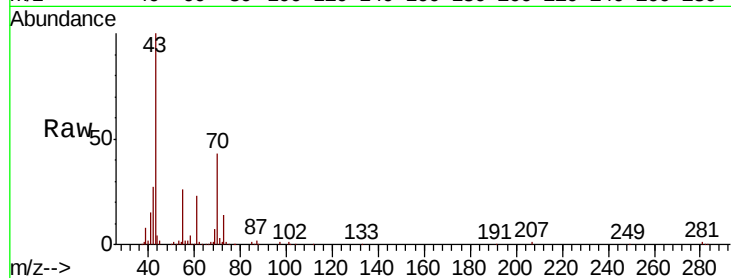




#47  
n-amvl Acetate  
Concen: 17.800 ug/l  
RT: 12.07 min Scan# 3202  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

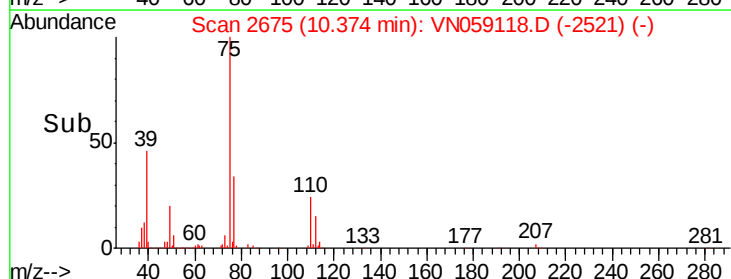
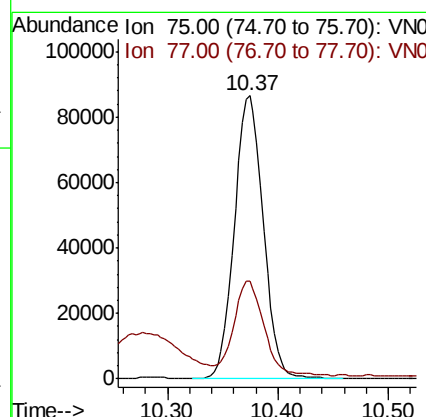
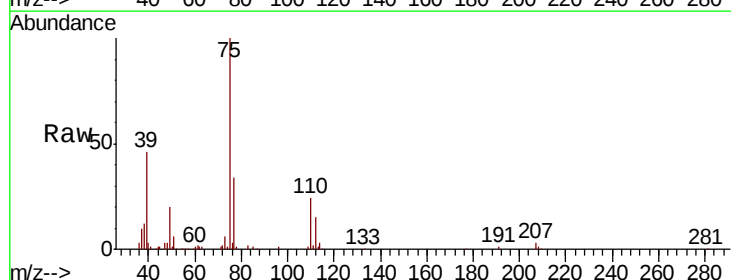
Instrument :  
MSVOA\_N  
ClientSampled :  
VN1107WBSD01

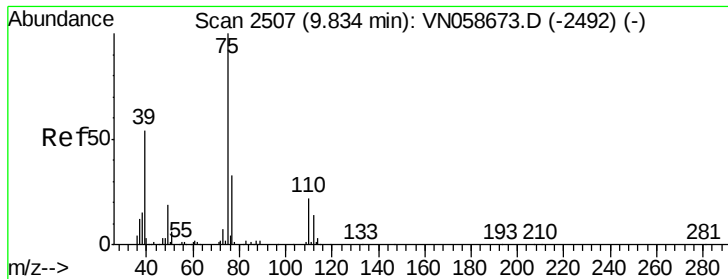
Tot Ion: 43 Resp: 185678  
Ion Ratio Lower Upper  
43 100  
55 26.9 19.6 29.4



#48  
t-1,3-Dichloropropene  
Concen: 19.997 ug/l  
RT: 10.37 min Scan# 2675  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 75 Resp: 157616  
Ion Ratio Lower Upper  
75 100  
77 33.0 27.0 40.4



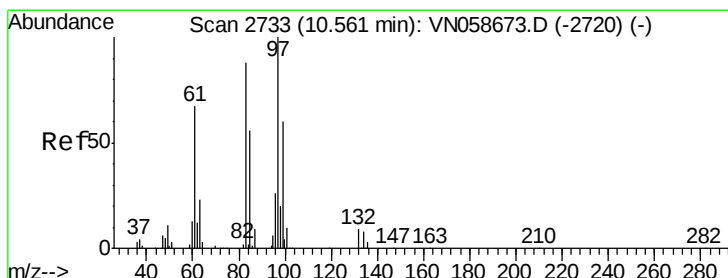
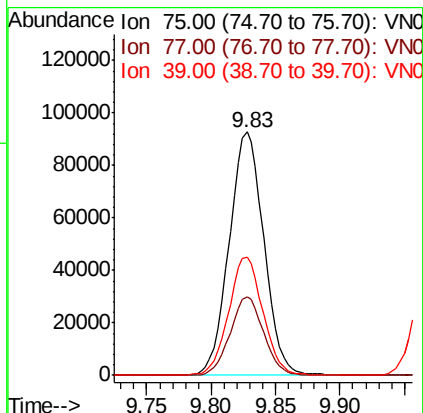
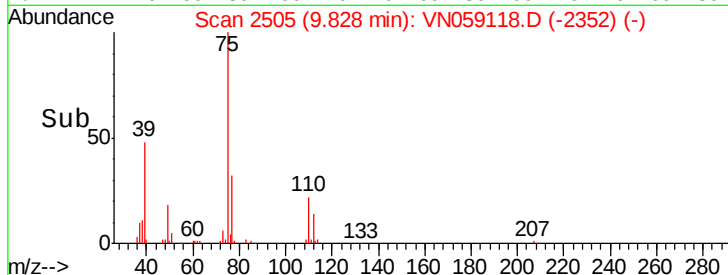
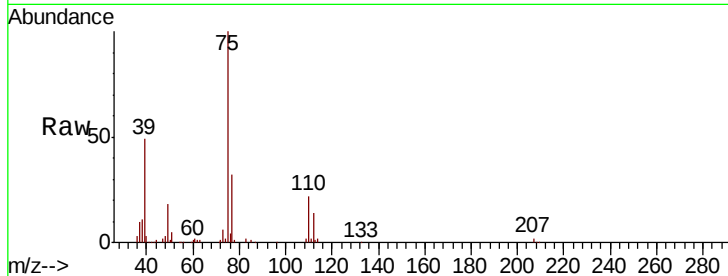


#49

cis-1,3-Dichloropropene  
 Concen: 20.934 ug/l  
 RT: 9.83 min Scan# 2505  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

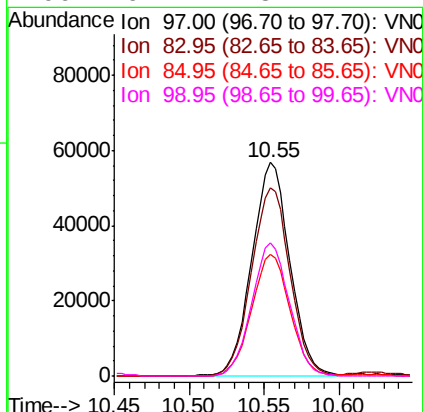
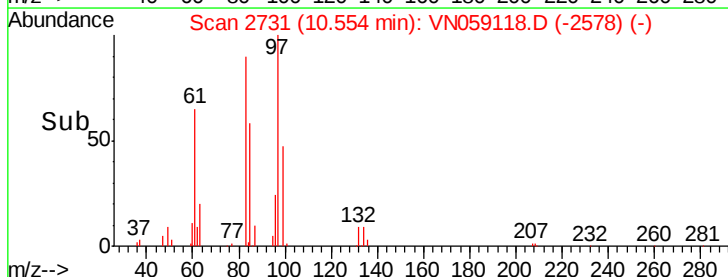
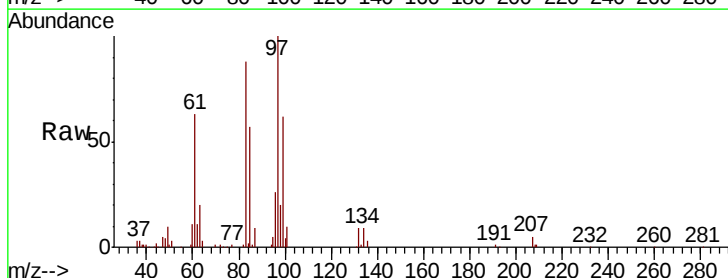
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.2  | 26.1  | 39.1  |
| 39      | 48.7  | 43.1  | 64.7  |

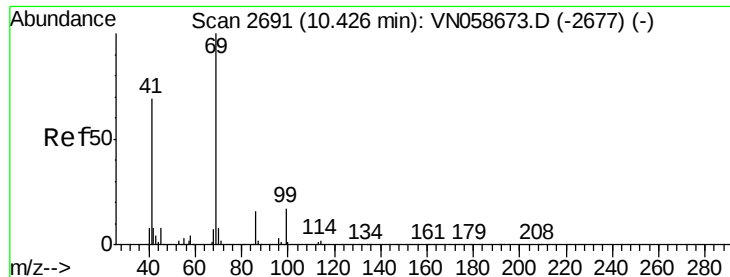


#50

1,1,2-Trichloroethane  
 Concen: 21.123 ug/l  
 RT: 10.55 min Scan# 2731  
 Delta R.T. -0.01 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 88.0  | 70.7  | 106.1 |
| 85      | 57.0  | 45.1  | 67.7  |
| 99      | 62.2  | 48.2  | 72.4  |





#51

Ethyl methacrylate

Concen: 19.714 ug/l

RT: 10.42 min Scan# 2689

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

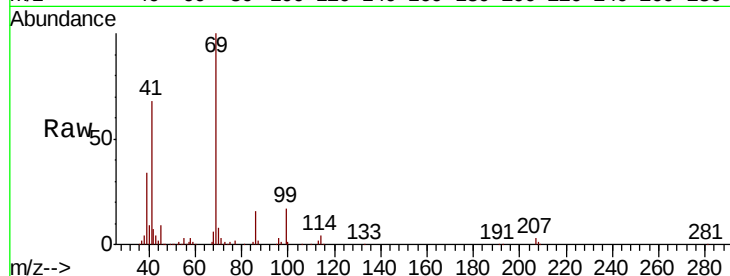
Tot Ion: 69 Resp: 149706

Ion Ratio Lower Upper

69 100

41 67.7 34.7 104.1

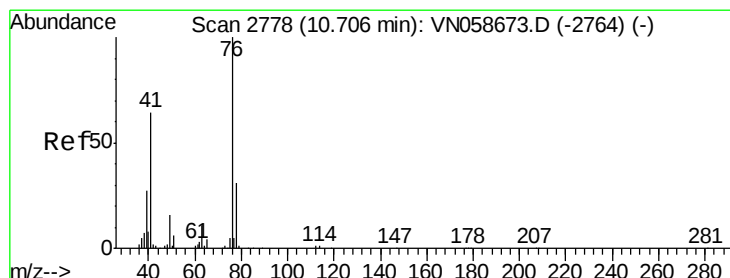
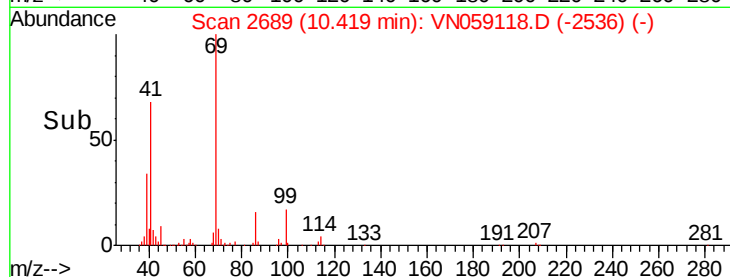
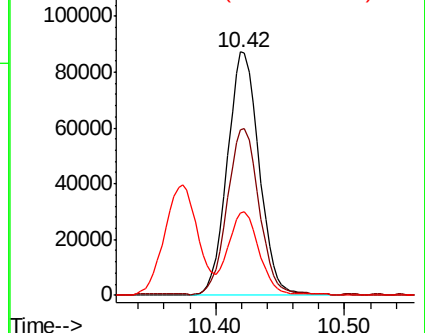
39 33.7 20.3 60.8



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 20.633 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.01 min

Lab File: VN059118.D

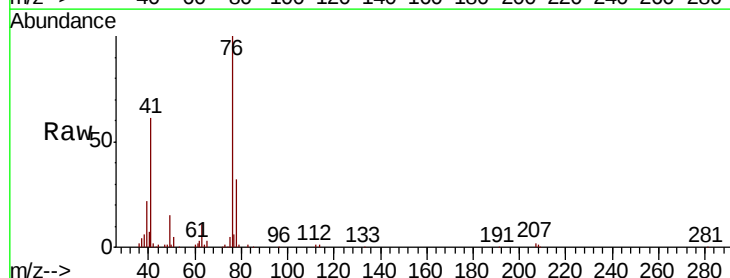
Acq: 7 Nov 2019 13:42

Tgt Ion: 76 Resp: 174506

Ion Ratio Lower Upper

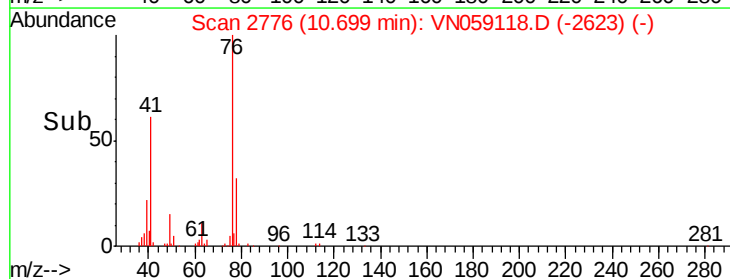
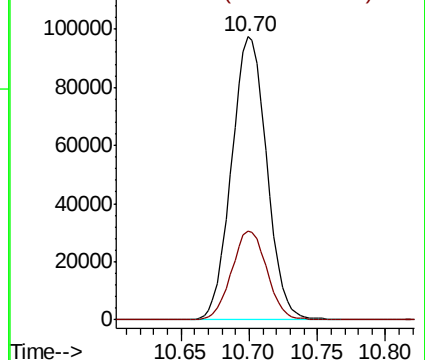
76 100

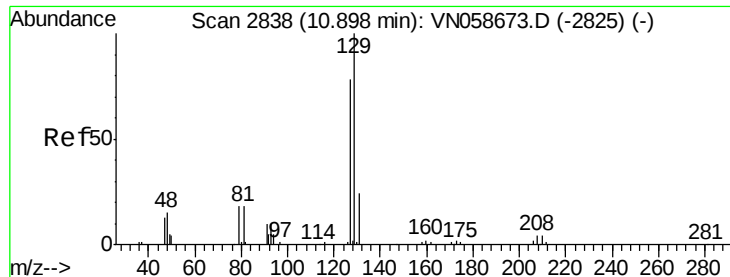
78 31.7 0.0 63.2



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 20.895 ug/l

RT: 10.90 min Scan# 2837

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

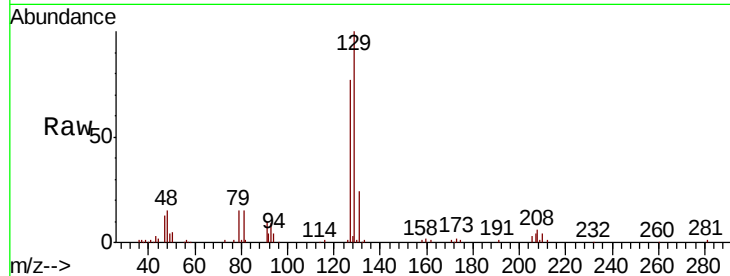
VN1107WBSD01

Tot Ion:129 Resp: 106495

Ion Ratio Lower Upper

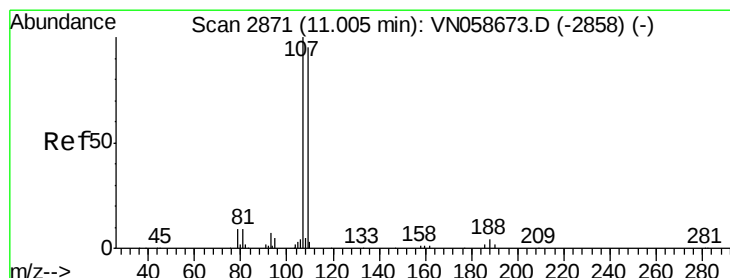
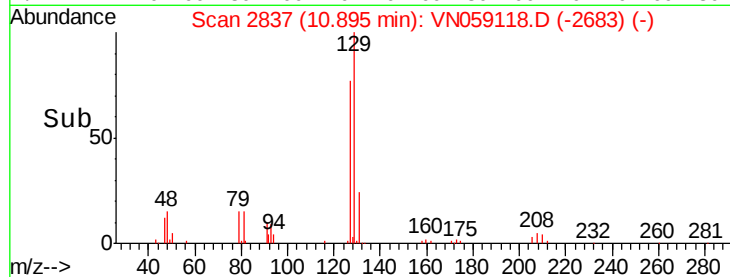
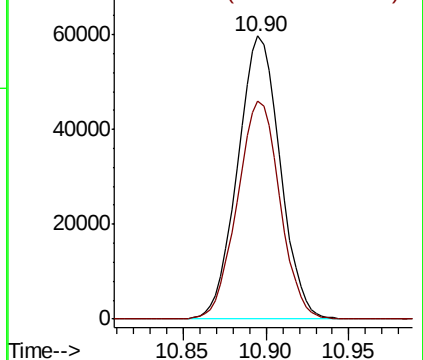
129 100

127 77.0 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.929 ug/l

RT: 11.00 min Scan# 2869

Delta R.T. -0.01 min

Lab File: VN059118.D

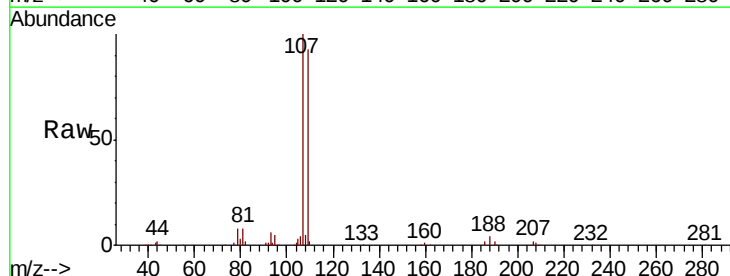
Acq: 7 Nov 2019 13:42

Tgt Ion:107 Resp: 103019

Ion Ratio Lower Upper

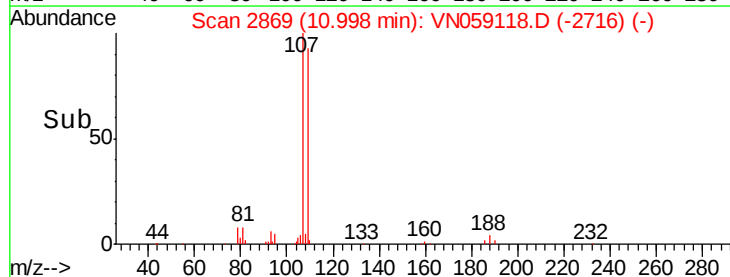
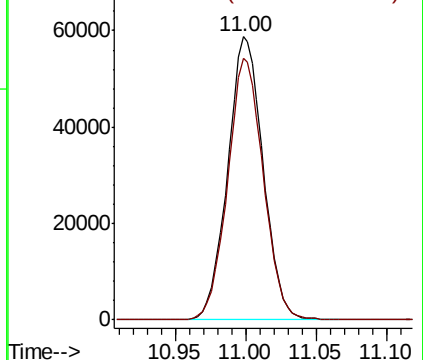
107 100

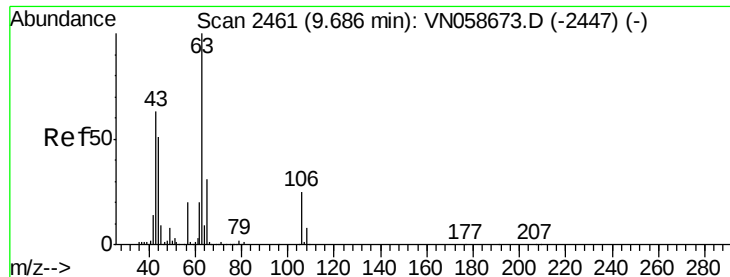
109 93.0 76.2 114.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

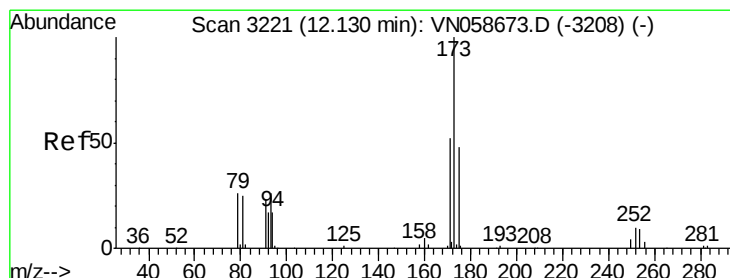
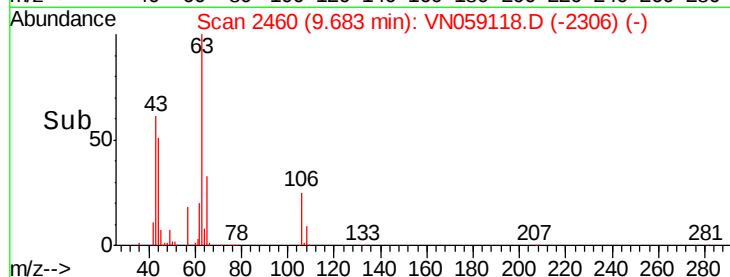
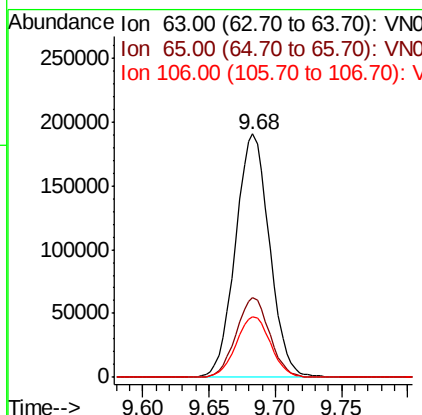
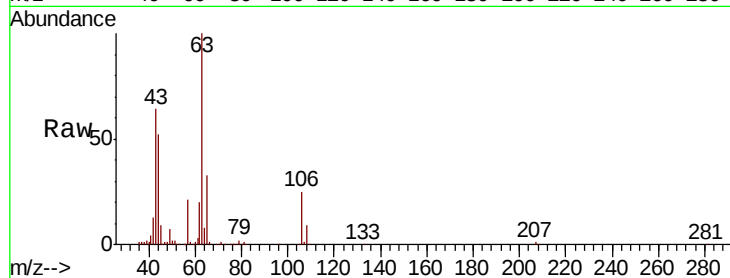




#55  
2-Chloroethyl vinyl ether  
Concen: 90.040 ug/l  
RT: 9.68 min Scan# 2460  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

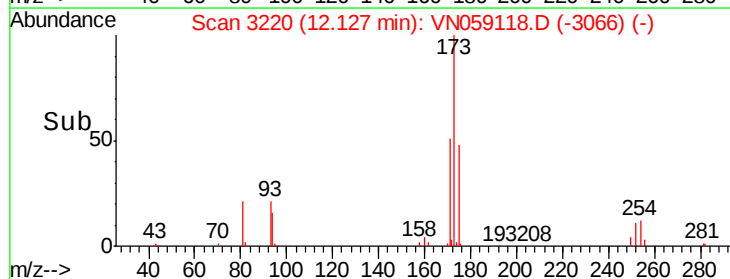
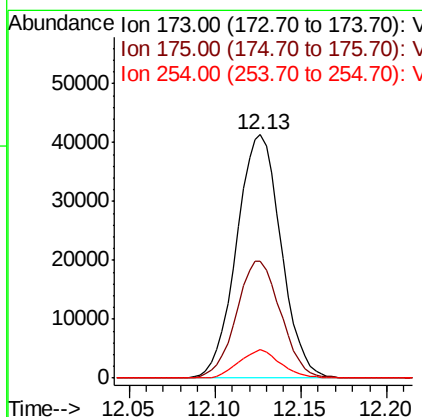
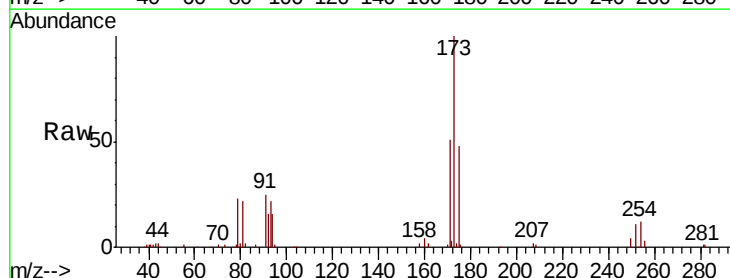
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

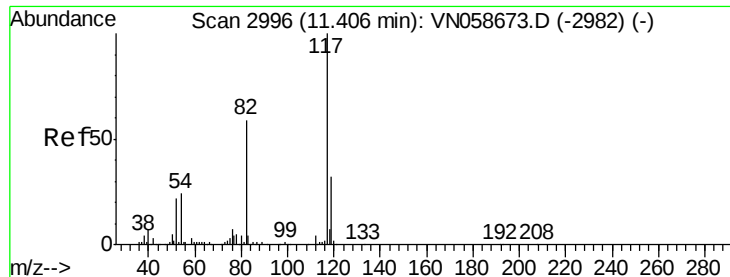
Tot Ion: 63 Resp: 340113  
Ion Ratio Lower Upper  
63 100  
65 32.3 25.3 37.9  
106 25.2 19.8 29.6



#56  
Bromoform  
Concen: 20.946 ug/l  
RT: 12.13 min Scan# 3220  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 173 Resp: 74365  
Ion Ratio Lower Upper  
173 100  
175 48.1 38.7 58.1  
254 10.8 7.4 11.2

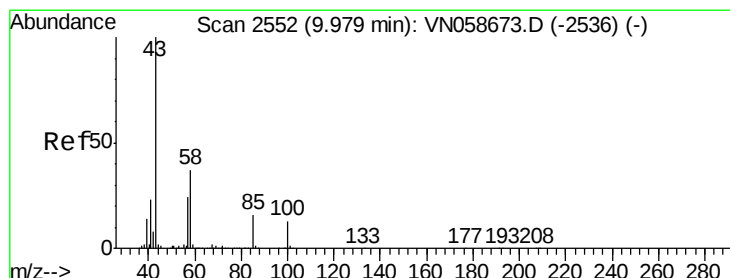
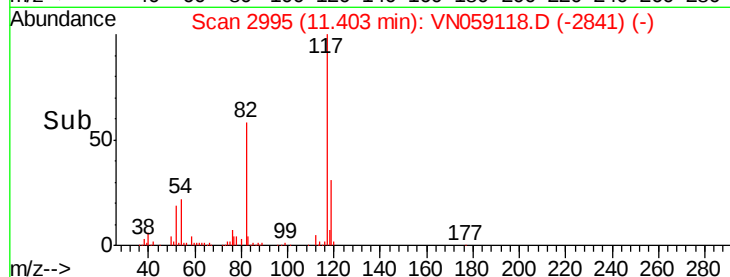
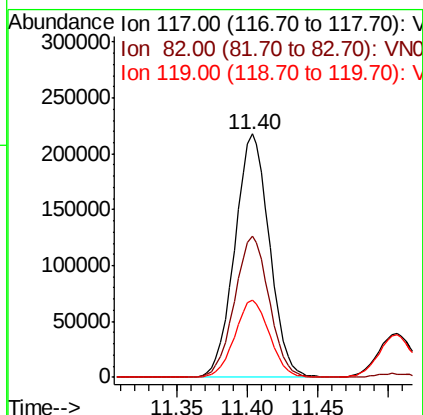
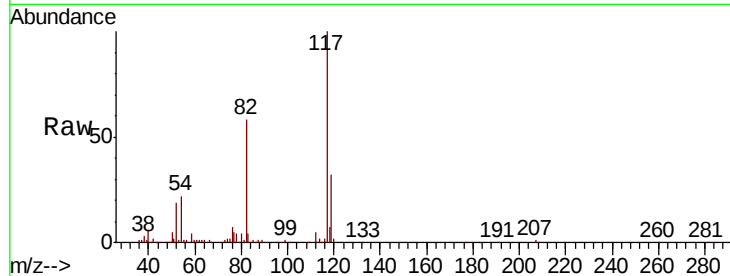




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

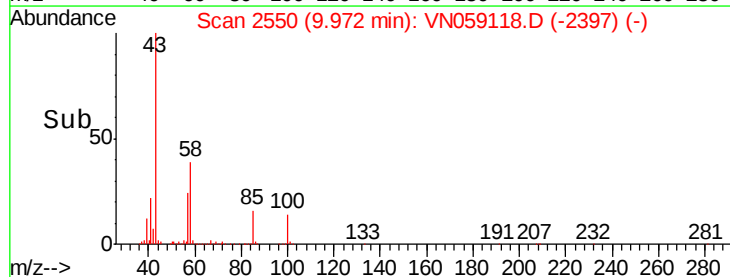
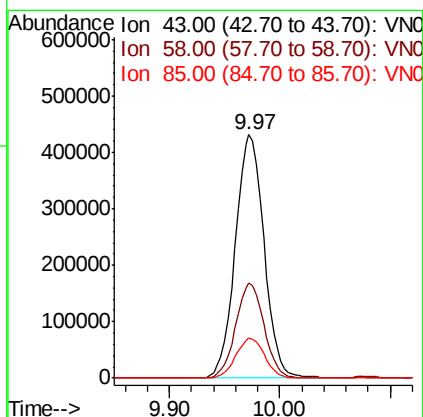
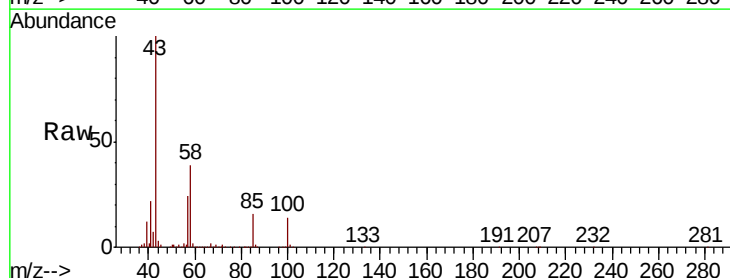
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

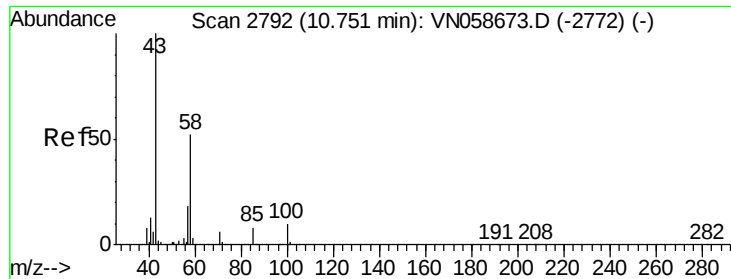
Tot Ion:117 Resp: 374573  
Ion Ratio Lower Upper  
117 100  
82 58.1 46.9 70.3  
119 31.9 25.8 38.6



#58  
4-Methyl-2-Pentanone  
Concen: 113.735 ug/l  
RT: 9.97 min Scan# 2550  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 43 Resp: 777171  
Ion Ratio Lower Upper  
43 100  
58 38.6 30.1 45.1  
85 16.5 13.2 19.8

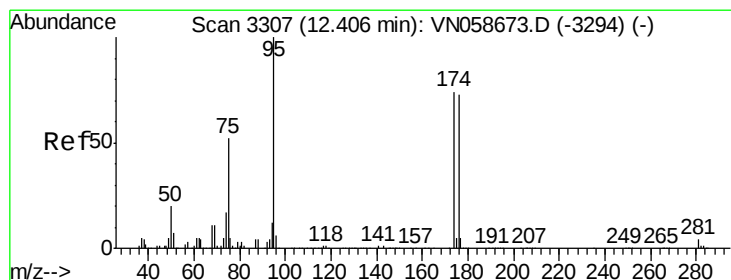
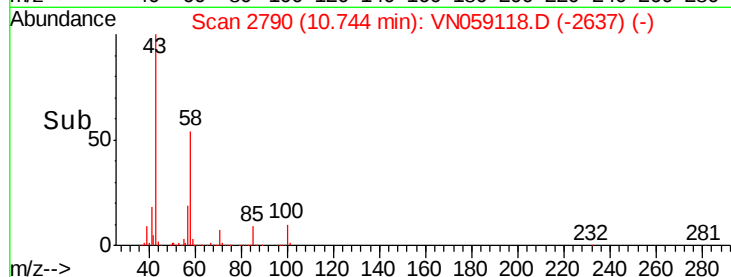
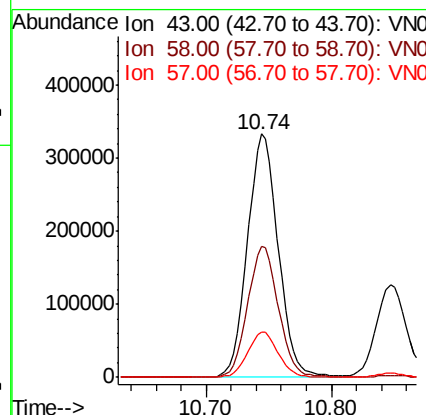
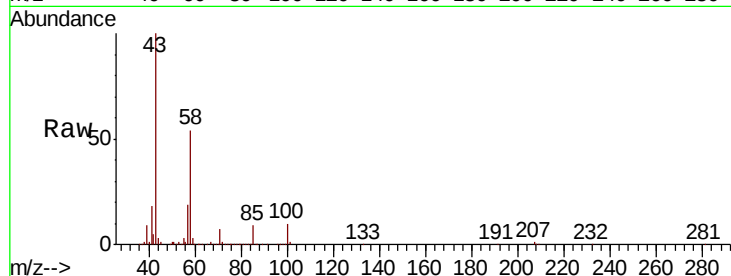




#59  
2-Hexanone  
Concen: 105.920 ug/l  
RT: 10.74 min Scan# 2790  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

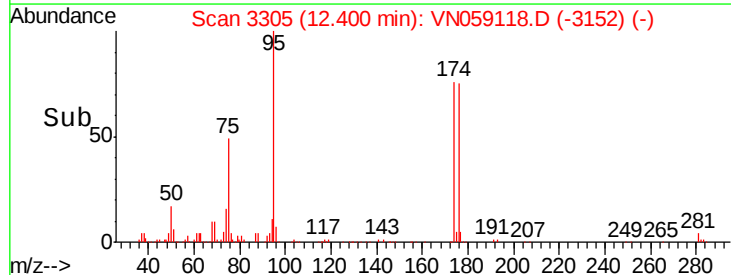
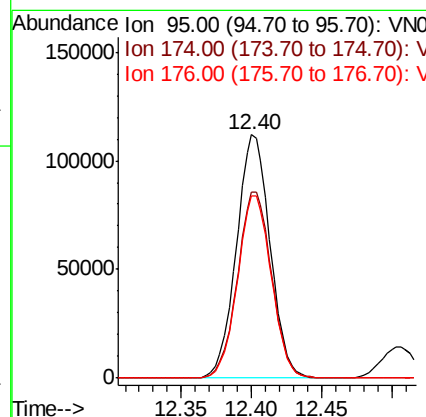
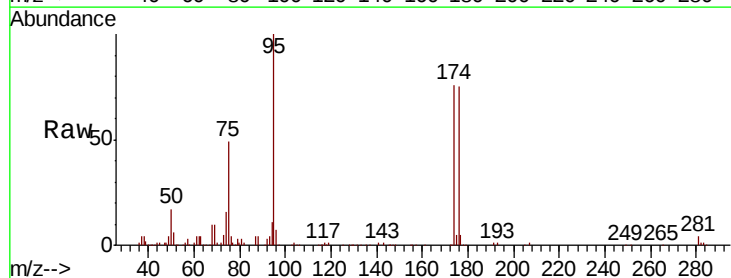
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

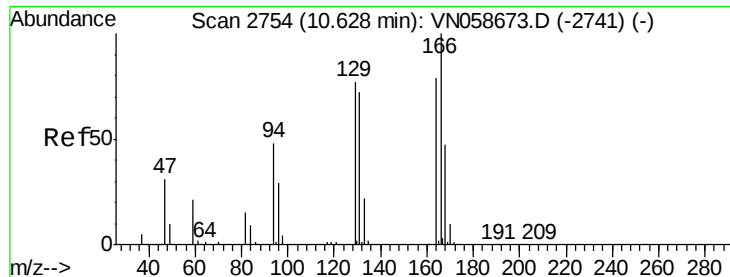
Tot Ion: 43 Resp: 567414  
Ion Ratio Lower Upper  
43 100  
58 54.1 41.4 62.0  
57 18.5 14.7 22.1



#60  
4-Bromofluorobenzene  
Concen: 28.603 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 95 Resp: 187416  
Ion Ratio Lower Upper  
95 100  
174 77.4 59.9 89.9  
176 75.3 58.3 87.5

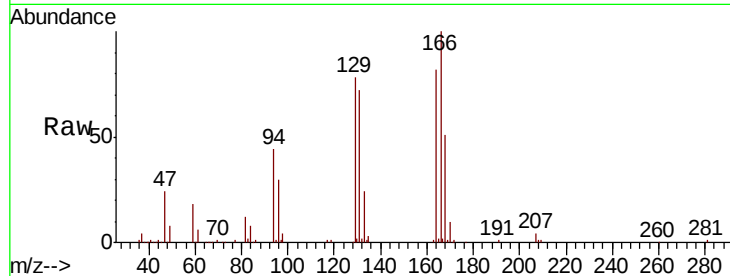




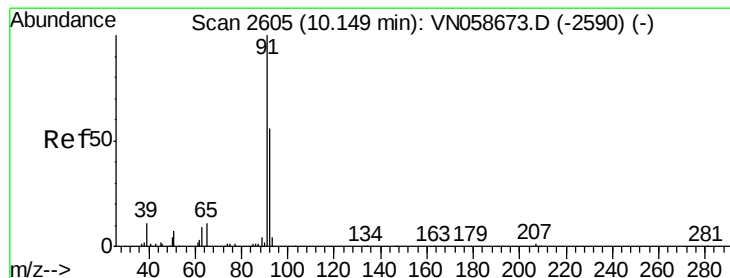
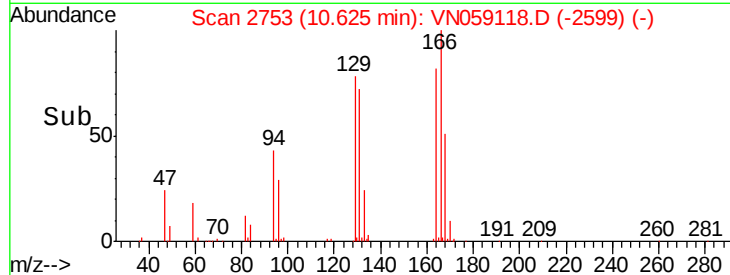
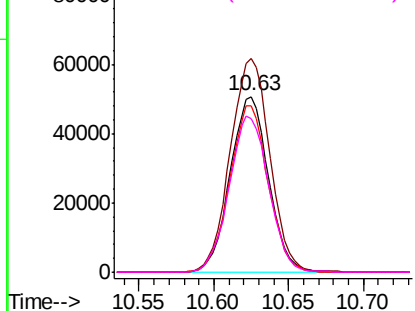
#61  
Tetrachloroethene  
Concen: 22.383 ug/l  
RT: 10.63 min Scan# 2753  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

Tot Ion:164 Resp: 90600  
Ion Ratio Lower Upper  
164 100  
166 121.1 101.4 152.2  
129 95.0 78.1 117.1  
131 87.7 73.2 109.8

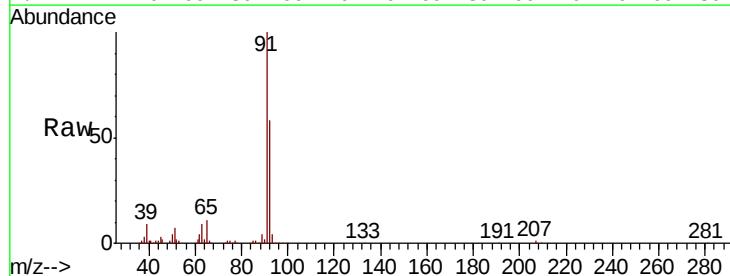


Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

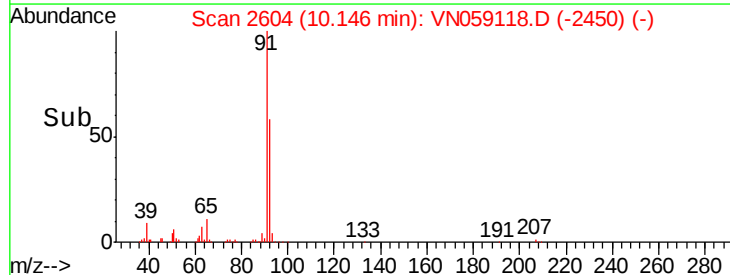
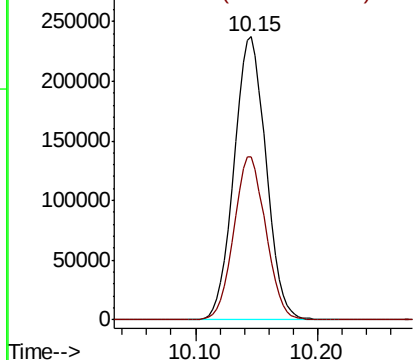


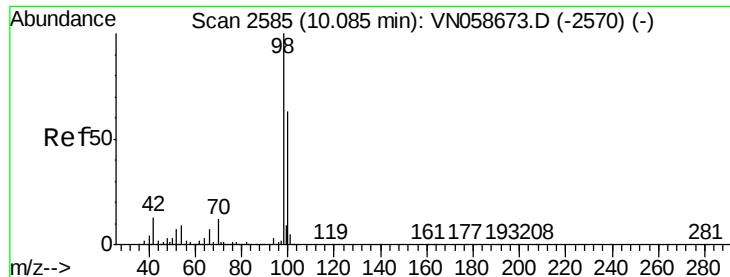
#62  
Toluene  
Concen: 21.409 ug/l  
RT: 10.15 min Scan# 2604  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 91 Resp: 431356  
Ion Ratio Lower Upper  
91 100  
92 57.5 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: 30.220 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

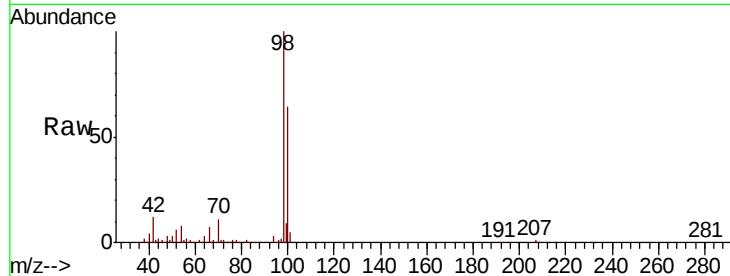
VN1107WBSD01

Tot Ion: 98 Resp: 534474

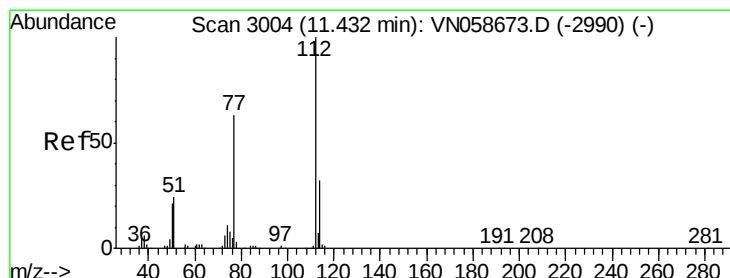
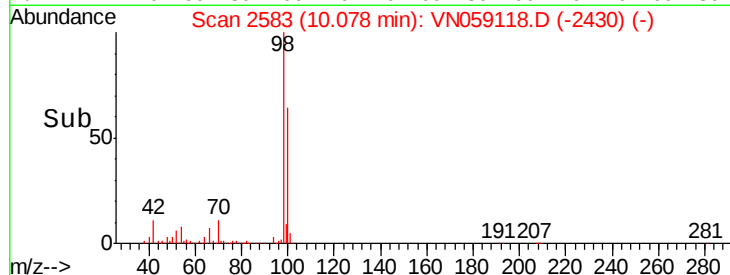
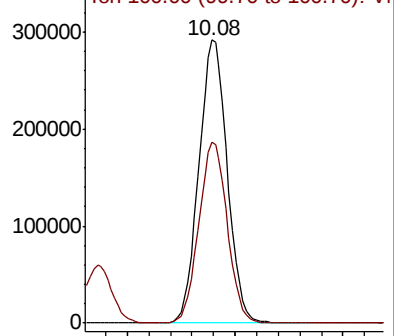
Ion Ratio Lower Upper

98 100

100 64.3 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN058673.D (-2570) (-)



#64

Chlorobenzene

Concen: 20.806 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059118.D

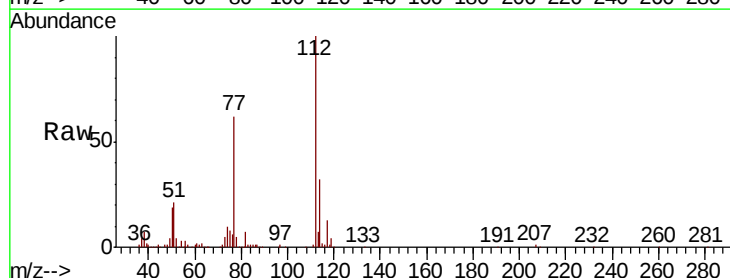
Acq: 7 Nov 2019 13:42

Tgt Ion: 112 Resp: 256303

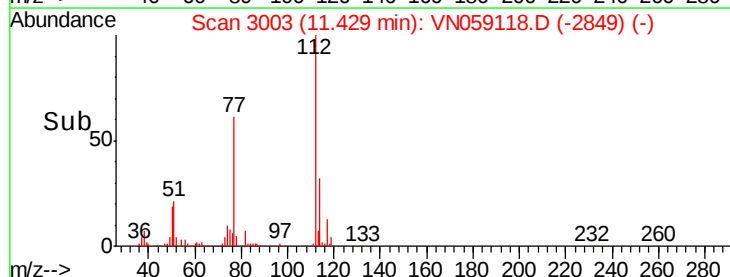
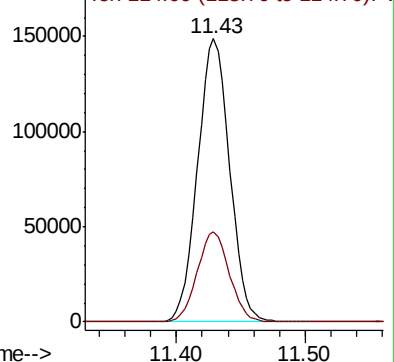
Ion Ratio Lower Upper

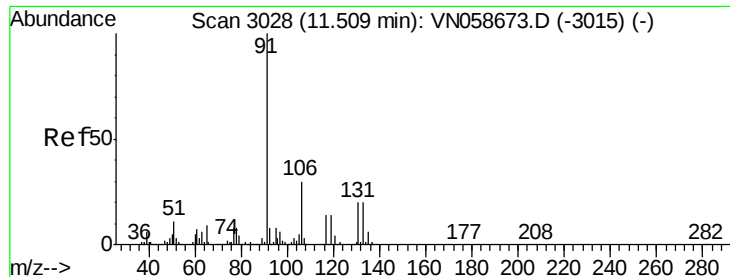
112 100

114 31.8 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): VN058673.D (-2990) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 21.470 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

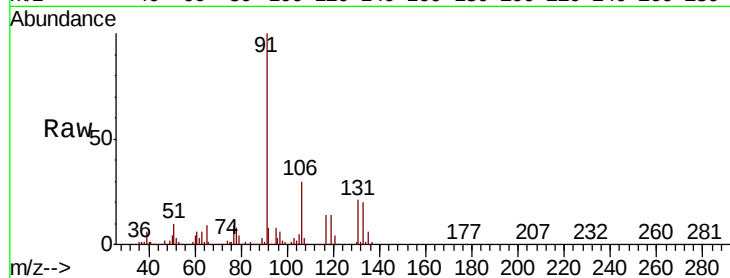
Tot Ion:131 Resp: 99169

Ion Ratio Lower Upper

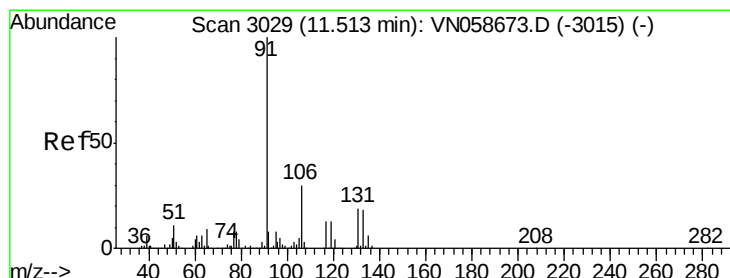
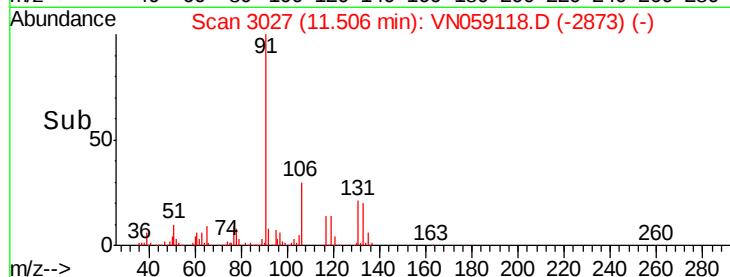
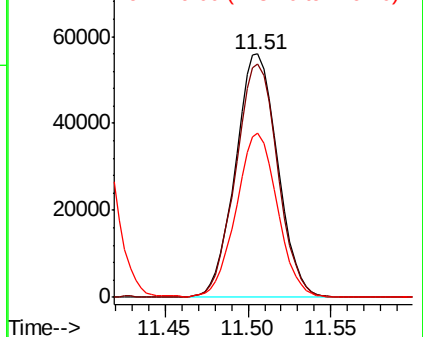
131 100

133 94.9 0.0 194.0

119 65.9 0.0 136.8



Abundance Ion 131.00 (130.70 to 131.70): V  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 20.575 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.01 min

Lab File: VN059118.D

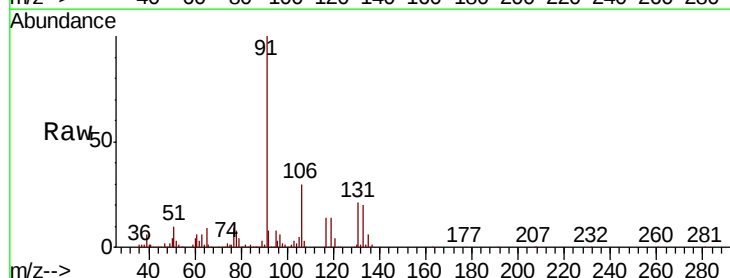
Acq: 7 Nov 2019 13:42

Tgt Ion: 91 Resp: 459043

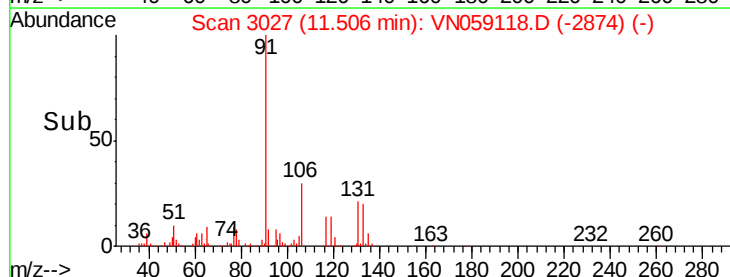
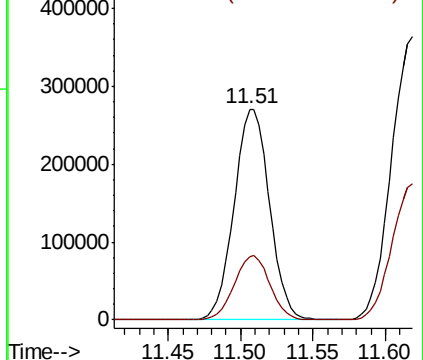
Ion Ratio Lower Upper

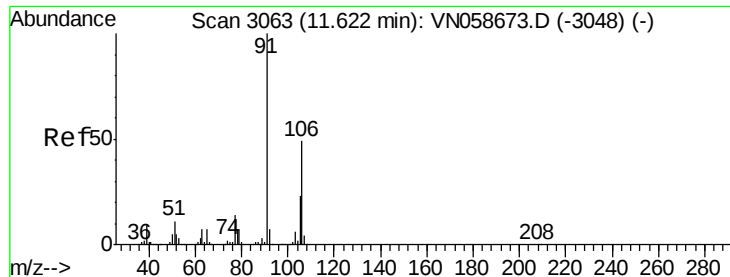
91 100

106 30.1 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 106.00 (105.70 to 106.70): V

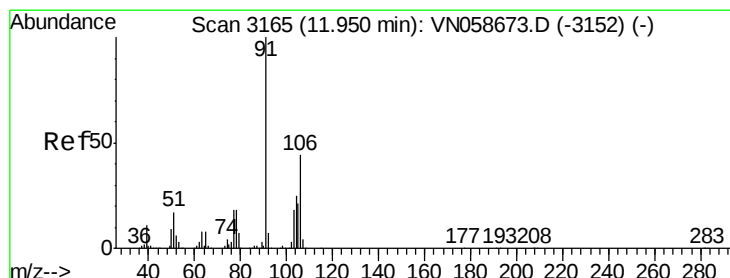
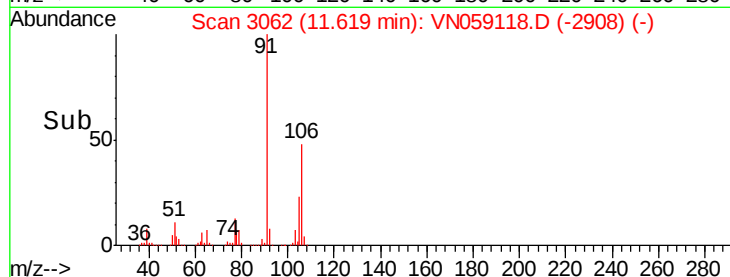
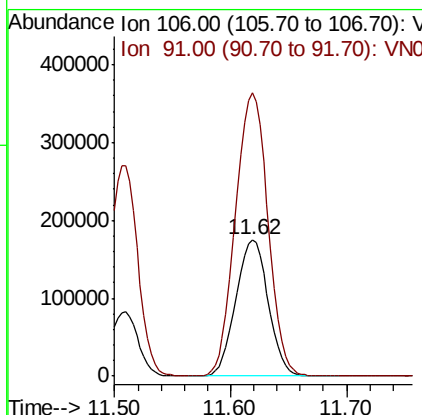
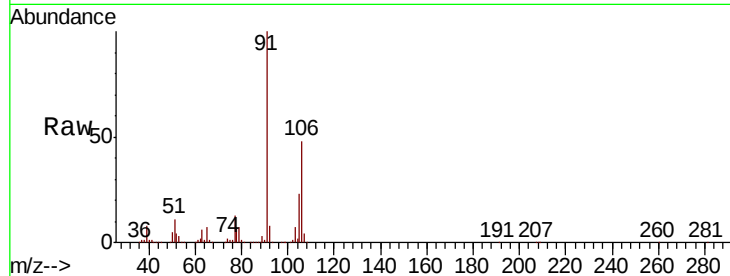




#67  
m/p-Xylenes  
Concen: 40.686 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

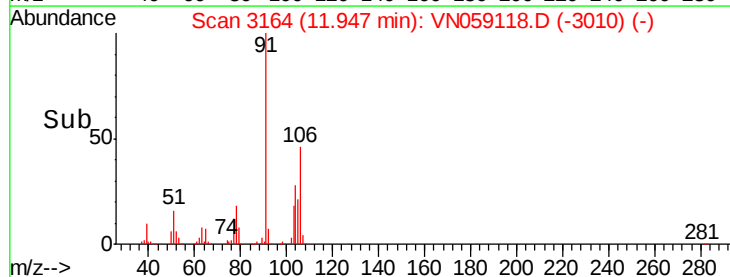
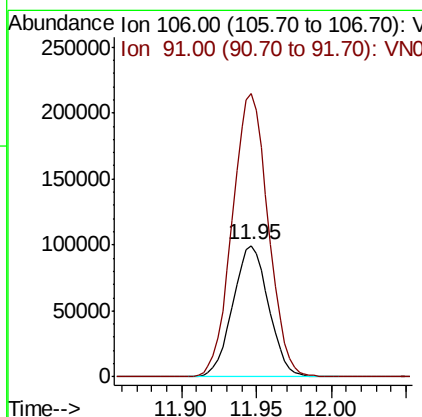
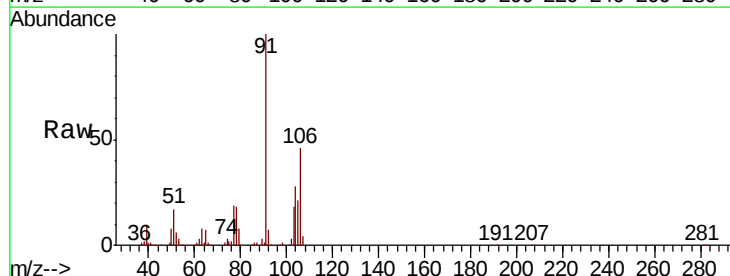
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

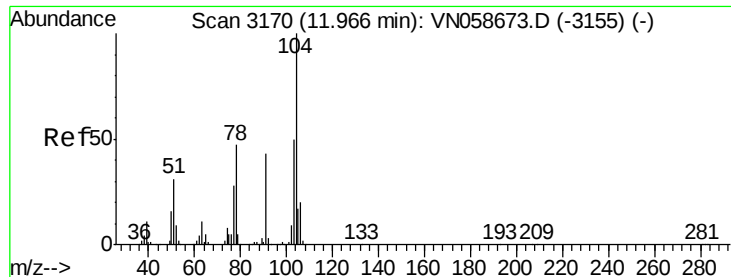
Tot Ion:106 Resp: 339130  
Ion Ratio Lower Upper  
106 100  
91 209.1 165.6 248.4



#68  
o-Xylene  
Concen: 20.515 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion:106 Resp: 165768  
Ion Ratio Lower Upper  
106 100  
91 216.7 109.8 329.4

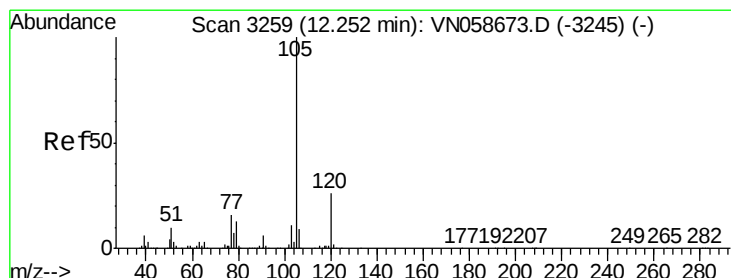
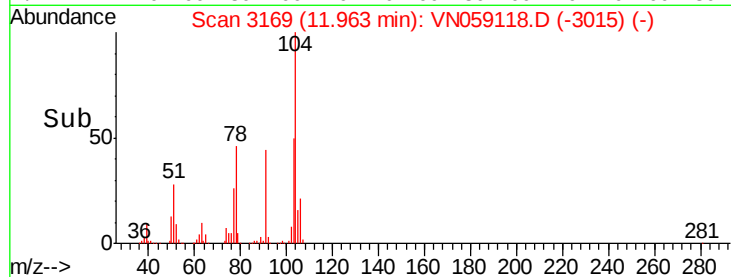
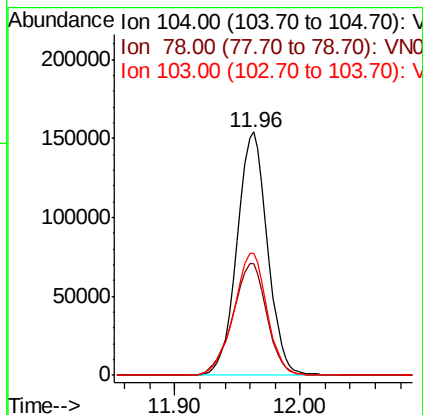
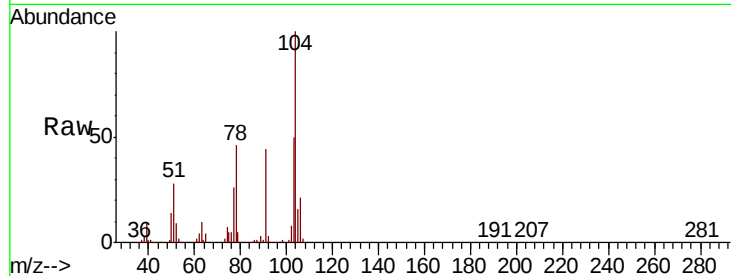




#69  
Stvrene  
Concen: 19.563 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

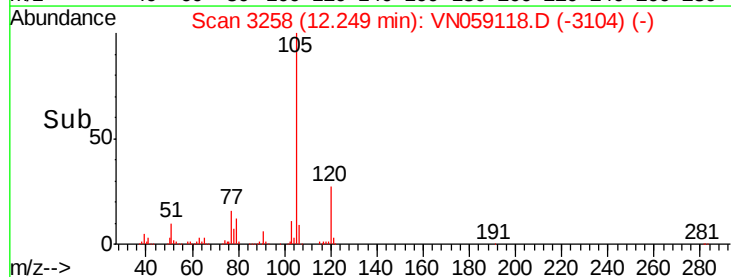
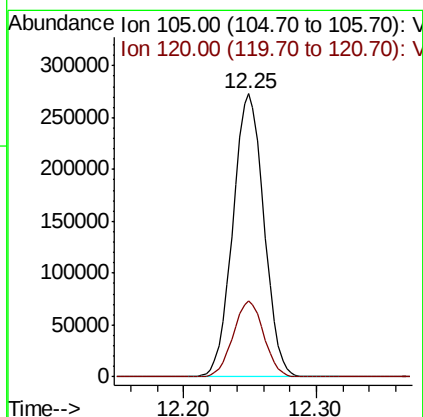
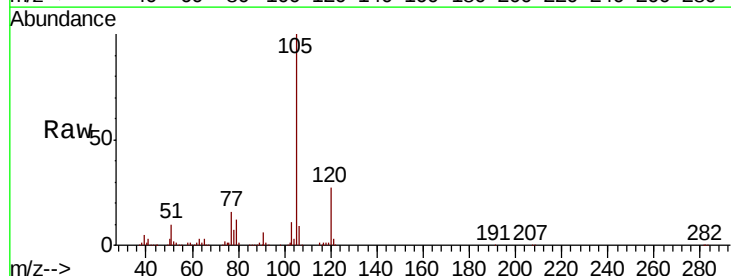
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1107WBSD01

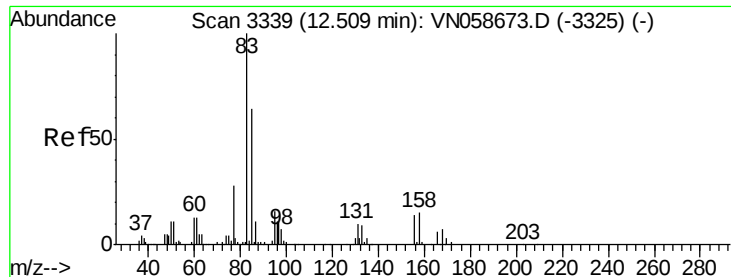
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 51.5  | 42.4  | 63.6  |
| 103     | 54.7  | 44.6  | 66.8  |



#70  
Isopropylbenzene  
Concen: 20.339 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.5  | 18.4  | 34.2  |





#71

1,1,2,2-Tetrachloroethane

Concen: 20.985 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

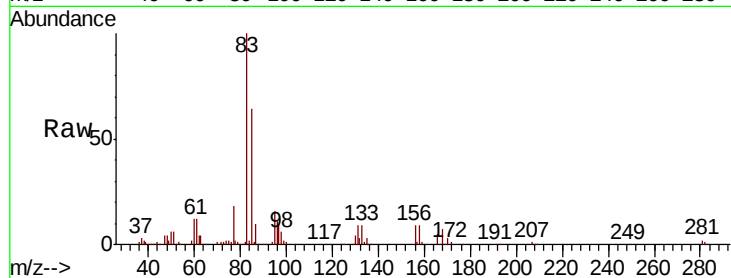
Tot Ion: 83 Resp: 154120

Ion Ratio Lower Upper

83 100

131 9.4 4.9 14.7

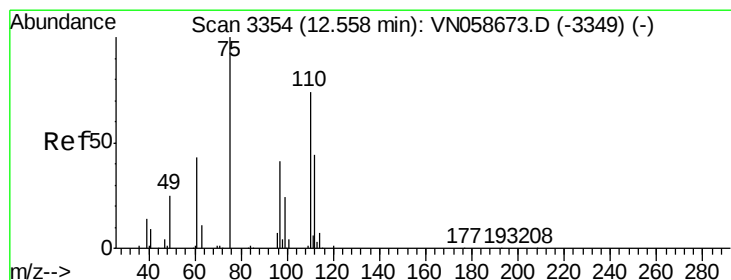
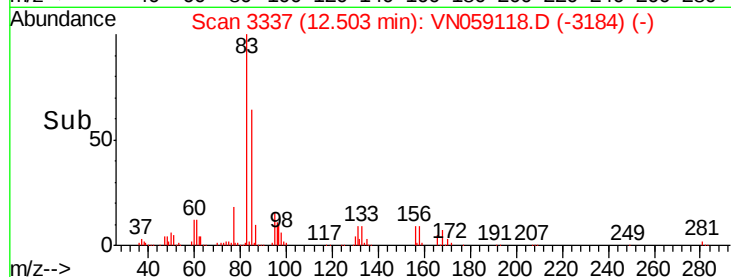
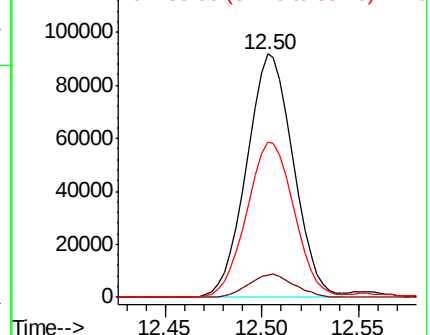
85 64.8 31.6 94.7



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 30.334 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN059118.D

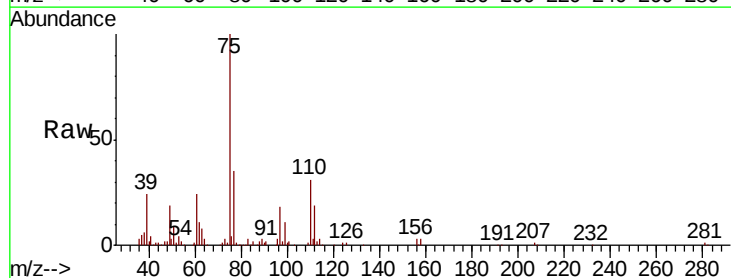
Acq: 7 Nov 2019 13:42

Tgt Ion: 75 Resp: 201876

Ion Ratio Lower Upper

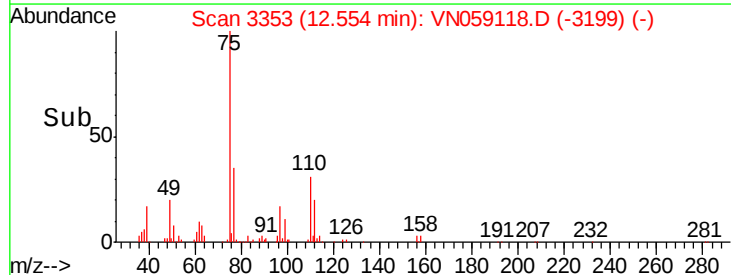
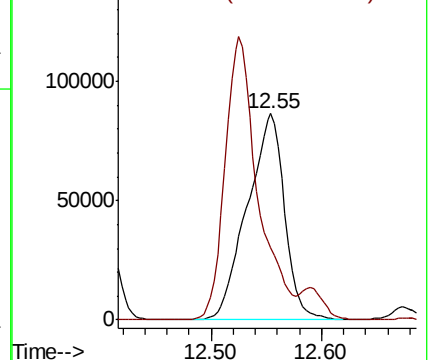
75 100

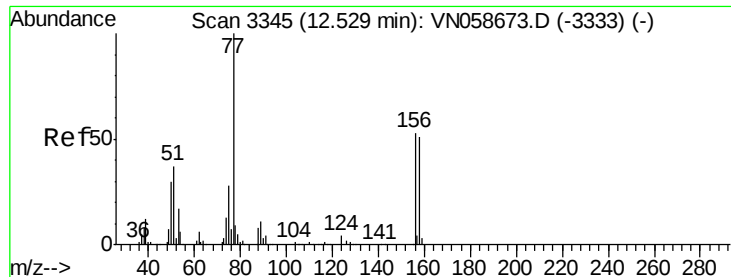
77 121.6 0.0 359.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 19.953 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

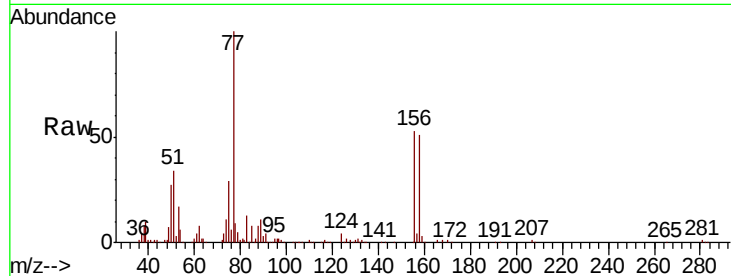
Tot Ion:156 Resp: 105731

Ion Ratio Lower Upper

156 100

77 232.1 0.0 456.0

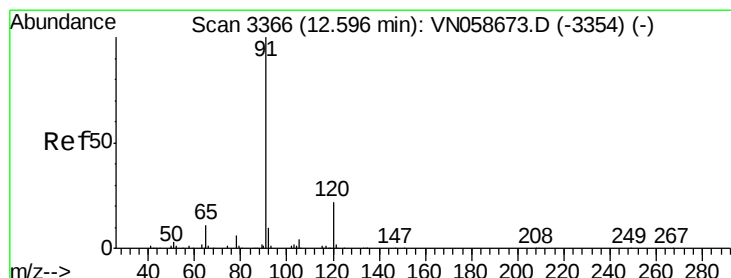
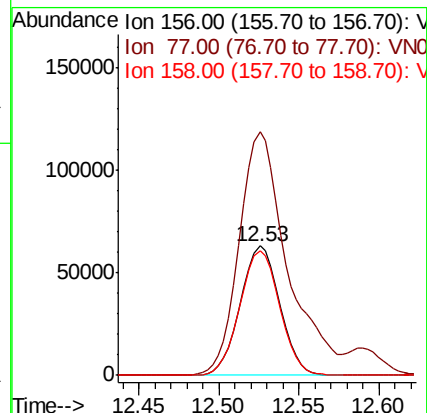
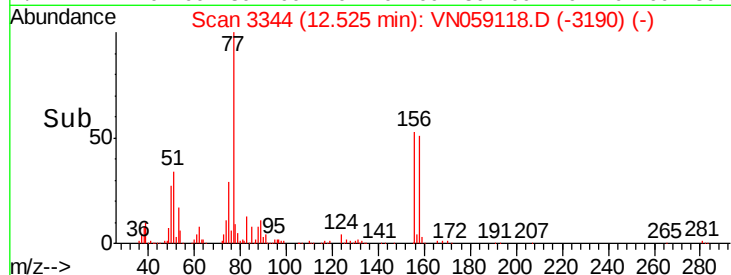
158 97.7 0.0 195.4



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 19.907 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.01 min

Lab File: VN059118.D

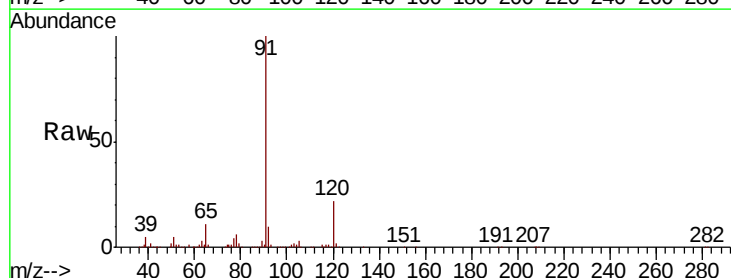
Acq: 7 Nov 2019 13:42

Tgt Ion: 91 Resp: 508337

Ion Ratio Lower Upper

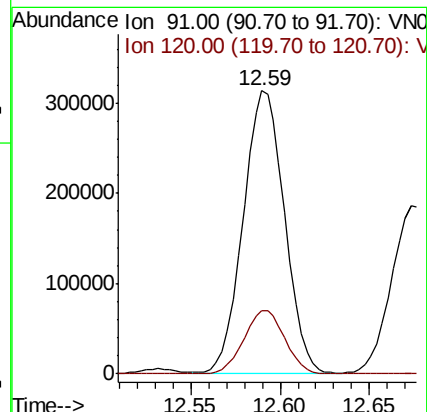
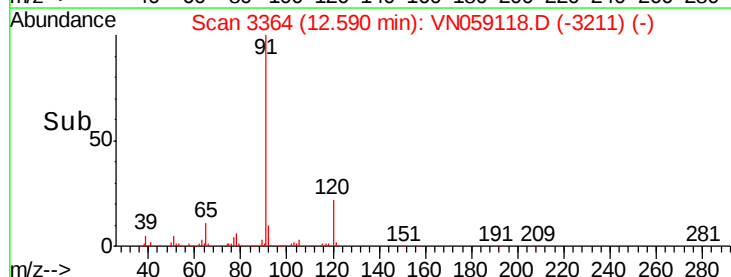
91 100

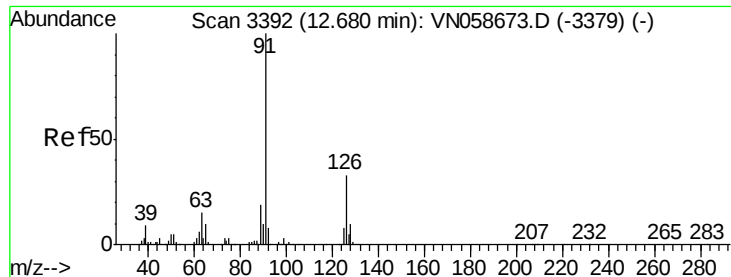
120 22.3 0.0 43.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.336 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

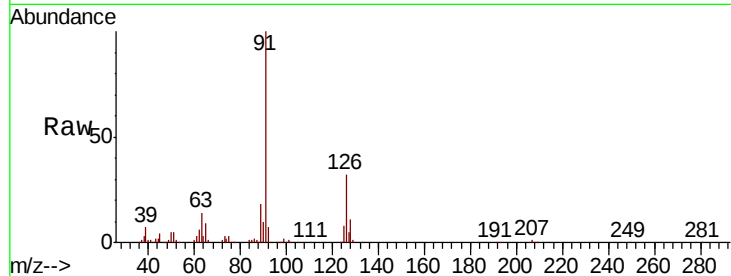
VN1107WBSD01

Tot Ion: 91 Resp: 312443

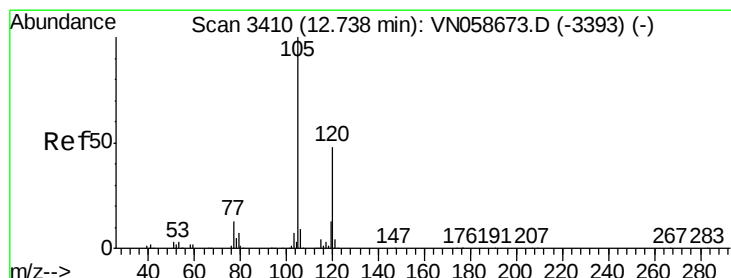
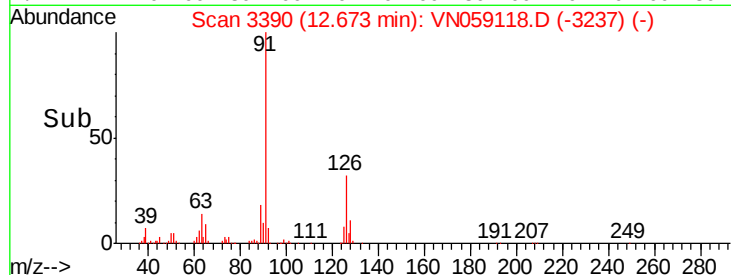
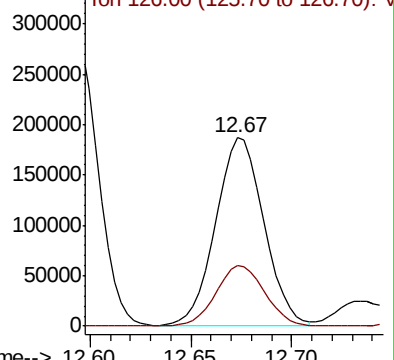
Ion Ratio Lower Upper

91 100

126 32.5 0.0 65.4



Abundance Ion 91.00 (90.70 to 91.70): VN058673.D (-3379) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.014 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059118.D

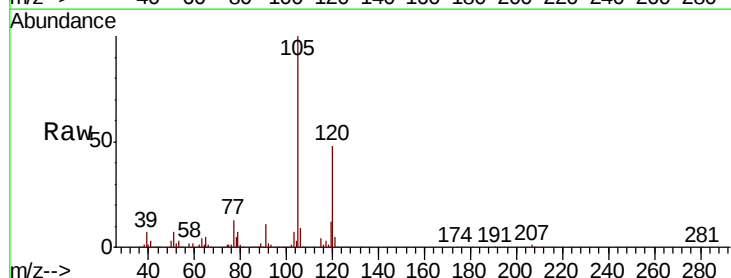
Acq: 7 Nov 2019 13:42

Tgt Ion: 105 Resp: 373967

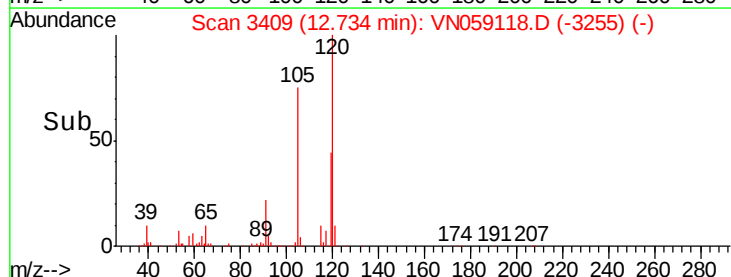
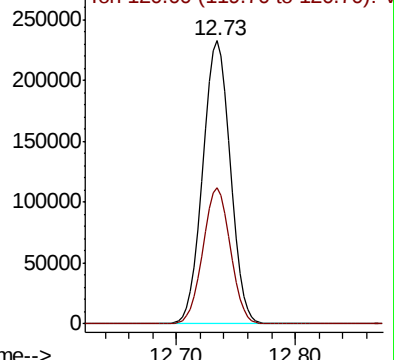
Ion Ratio Lower Upper

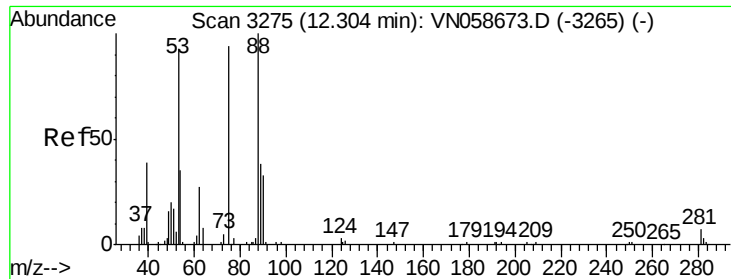
105 100

120 47.9 0.0 94.0



Abundance Ion 105.00 (104.70 to 105.70): VN058673.D (-3393) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 20.344 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

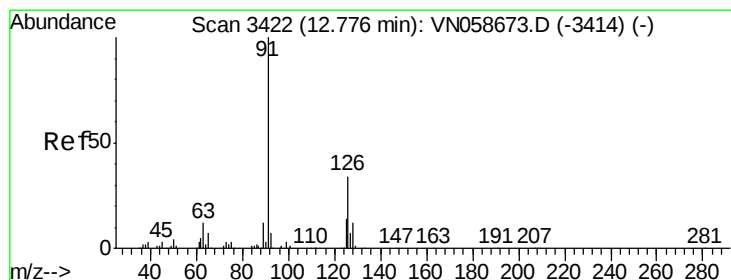
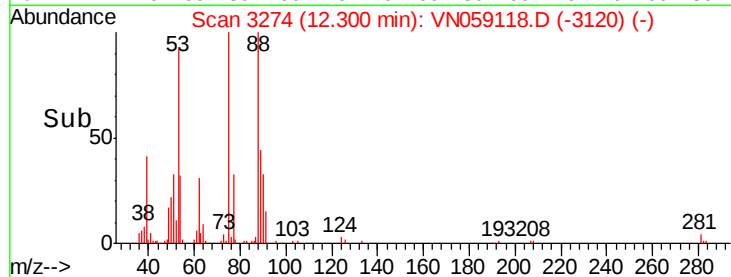
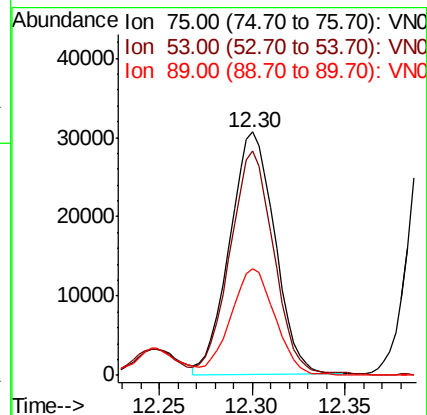
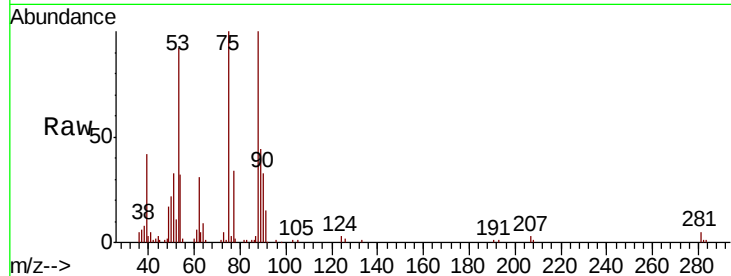
Tot Ion: 75 Resp: 51576

Ion Ratio Lower Upper

75 100

53 91.5 50.0 150.0

89 44.1 20.7 62.1



#78

4-Chlorotoluene

Concen: 19.115 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN059118.D

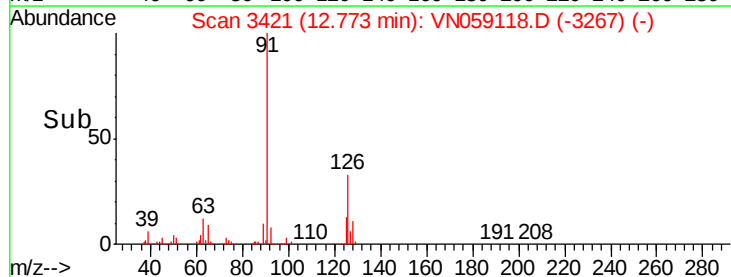
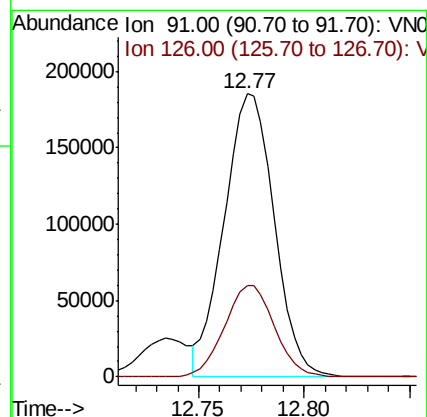
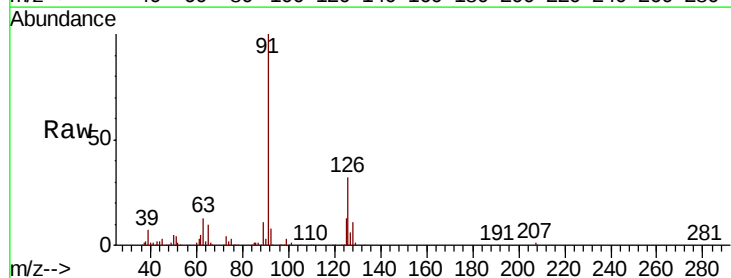
Acq: 7 Nov 2019 13:42

Tgt Ion: 91 Resp: 302685

Ion Ratio Lower Upper

91 100

126 32.8 0.0 63.4





#79

tert-butylbenzene

Concen: 20.058 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

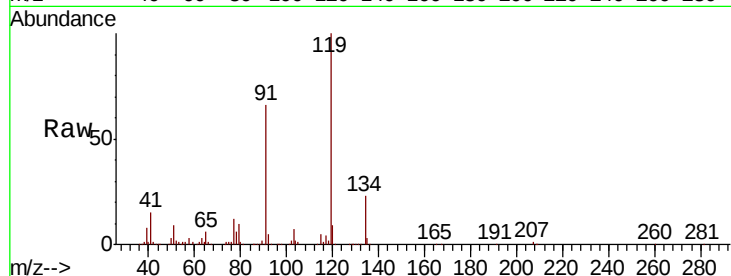
Tot Ion:119 Resp: 320200

Ion Ratio Lower Upper

119 100

91 65.4 0.0 136.4

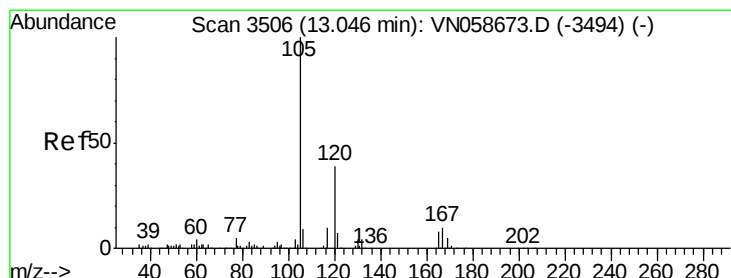
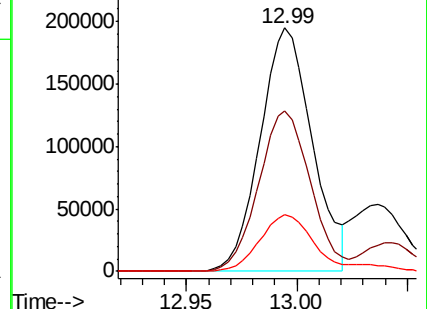
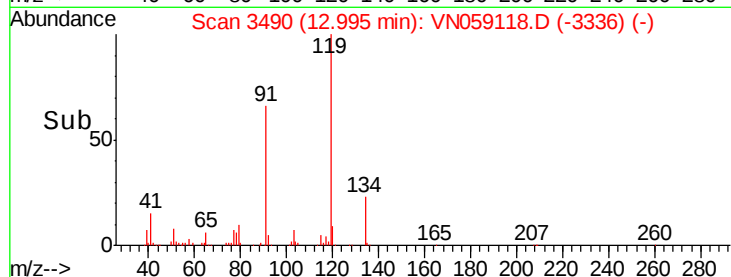
134 23.5 0.0 47.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 19.818 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.01 min

Lab File: VN059118.D

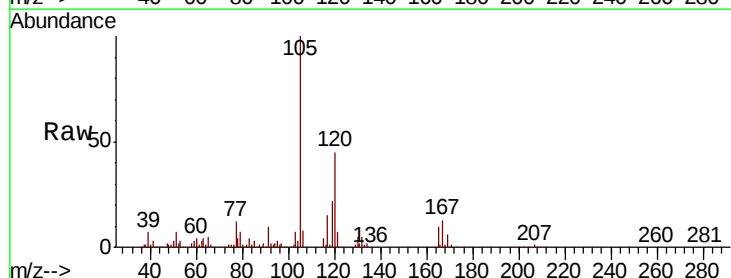
Acq: 7 Nov 2019 13:42

Tgt Ion:105 Resp: 367969

Ion Ratio Lower Upper

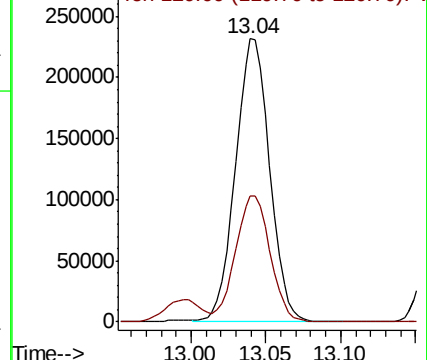
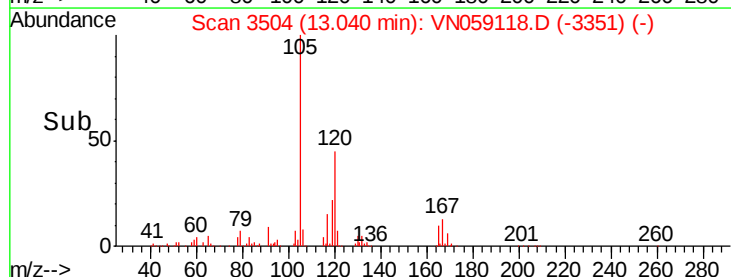
105 100

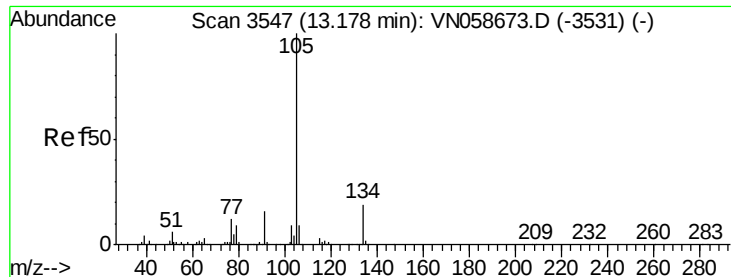
120 45.2 0.0 89.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 19.560 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

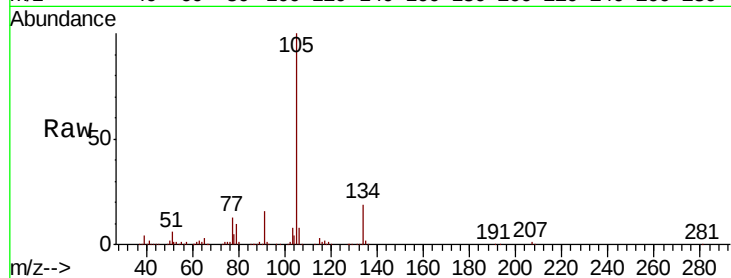
VN1107WBSD01

Tot Ion:105 Resp: 420217

Ion Ratio Lower Upper

105 100

134 19.3 0.0 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

250000

200000

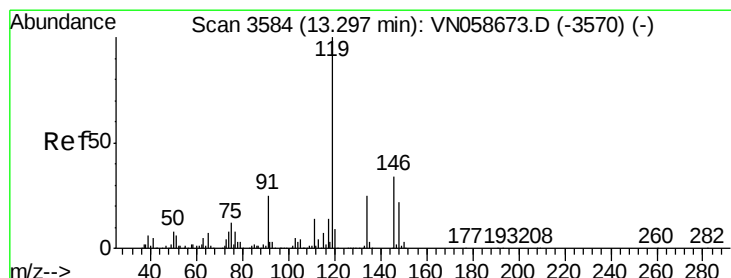
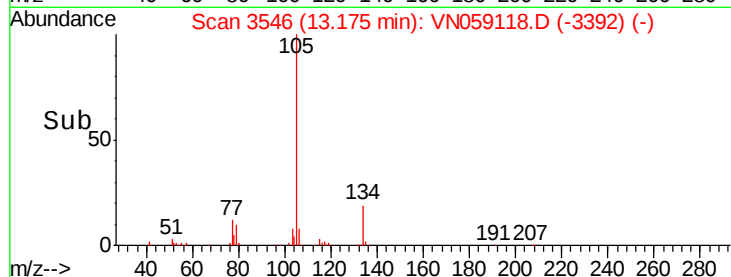
150000

100000

50000

0

Time--> 13.10 13.15 13.20 13.25



#82

p-Isopropyltoluene

Concen: 19.286 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

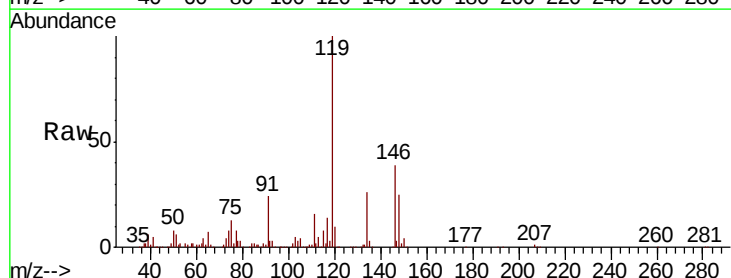
Tgt Ion:119 Resp: 372061

Ion Ratio Lower Upper

119 100

134 25.5 0.0 50.8

91 23.6 0.0 49.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

250000

200000

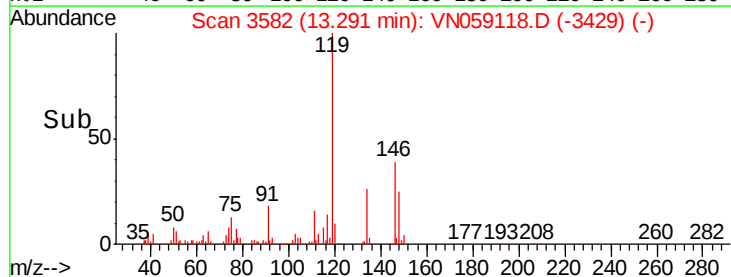
150000

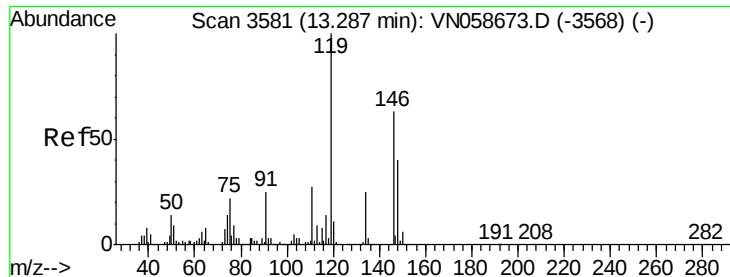
100000

50000

0

Time--> 13.20 13.25 13.30 13.35





#83

1,3-Dichlorobenzene

Concen: 19.142 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

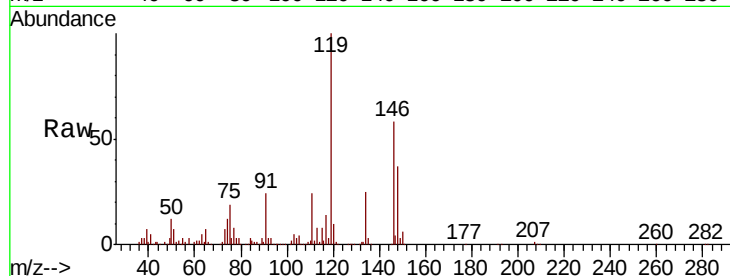
Tot Ion:146 Resp: 183543

Ion Ratio Lower Upper

146 100

111 40.9 21.0 63.0

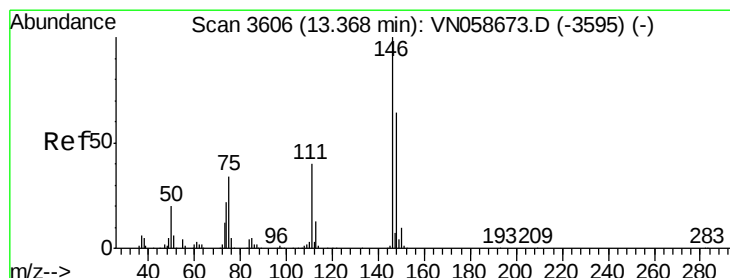
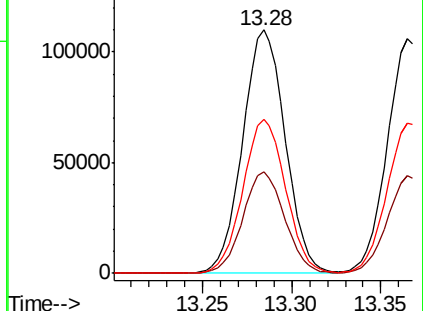
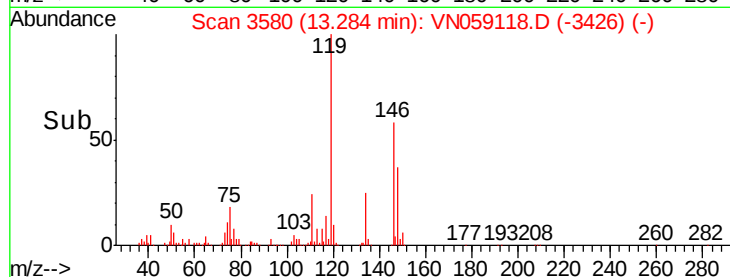
148 63.3 31.7 95.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 18.104 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

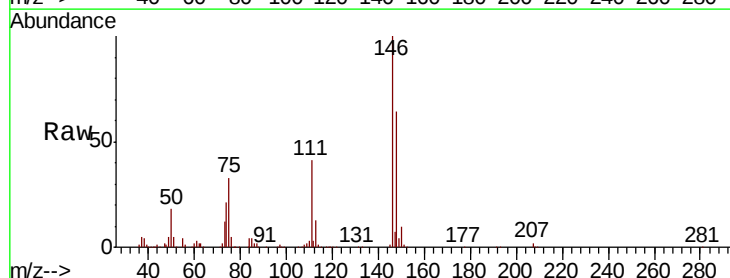
Tgt Ion:146 Resp: 173394

Ion Ratio Lower Upper

146 100

111 40.4 19.8 59.4

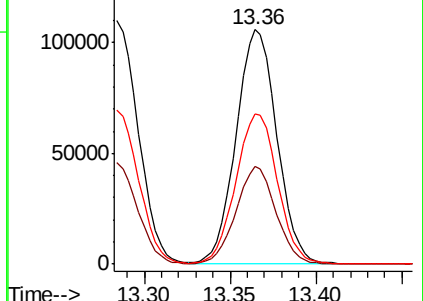
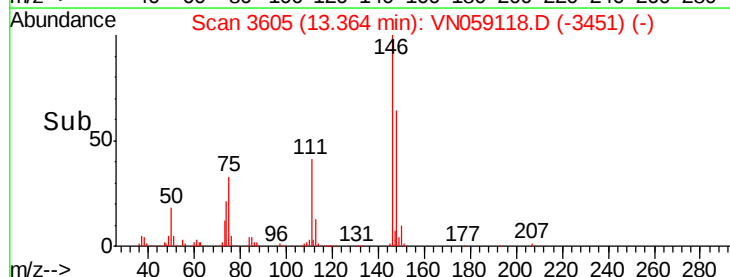
148 65.9 31.6 94.8

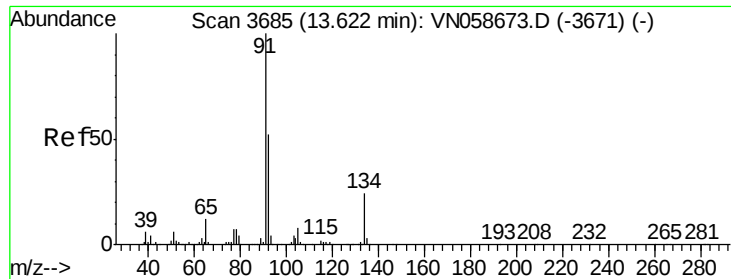


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

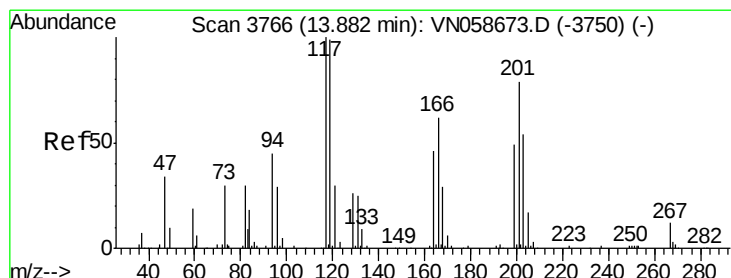
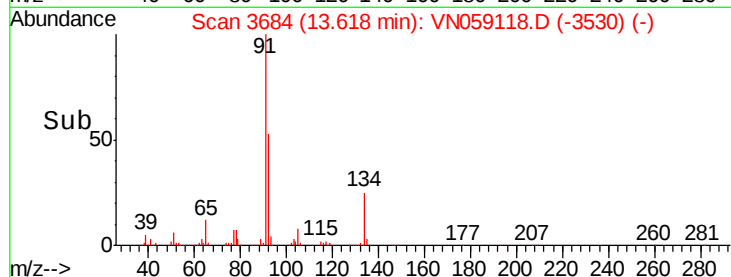
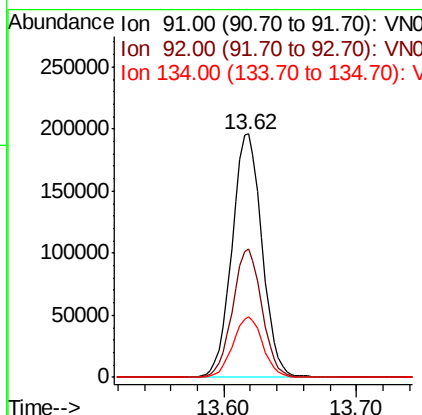
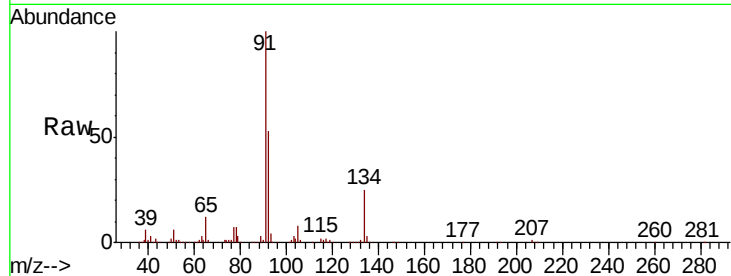




#85  
n-Butylbenzene  
Concen: 17.421 ug/l  
RT: 13.62 min Scan# 3684  
Delta R.T. -0.00 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

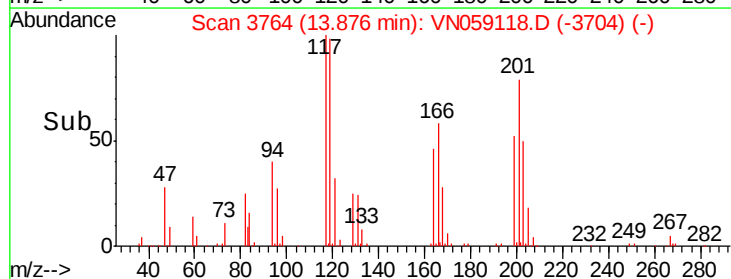
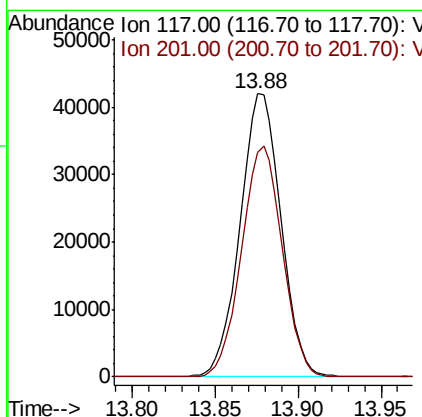
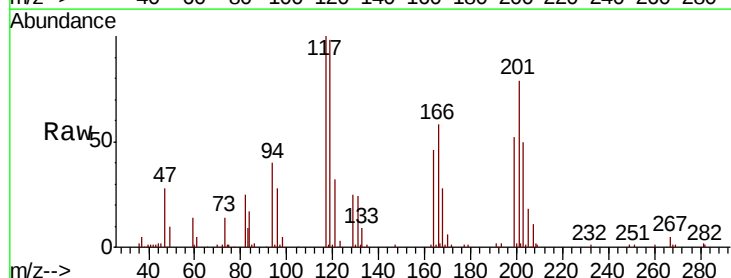
Instrument :  
MSVOA\_N  
ClientSampled :  
VN1107WBSD01

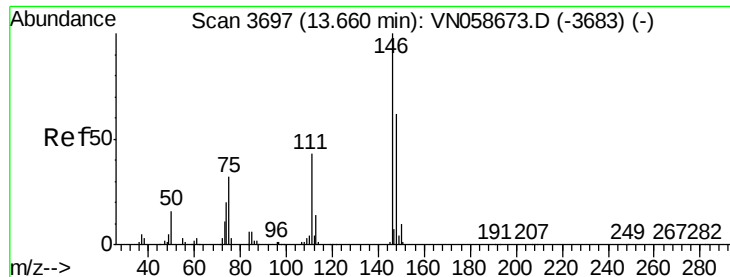
Tot Ion: 91 Resp: 307706  
Ion Ratio Lower Upper  
91 100  
92 51.5 0.0 102.8  
134 24.6 0.0 48.6



#86  
Hexachloroethane  
Concen: 20.565 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. -0.01 min  
Lab File: VN059118.D  
Acq: 7 Nov 2019 13:42

Tgt Ion: 117 Resp: 72202  
Ion Ratio Lower Upper  
117 100  
201 81.1 38.7 116.1

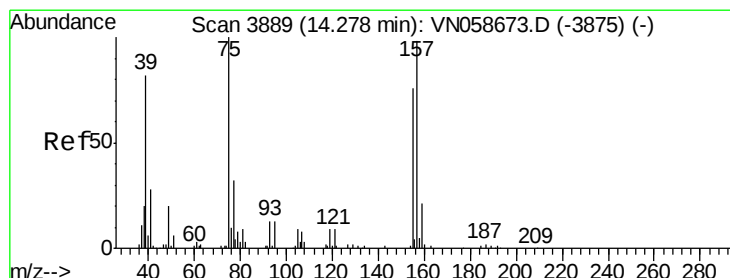
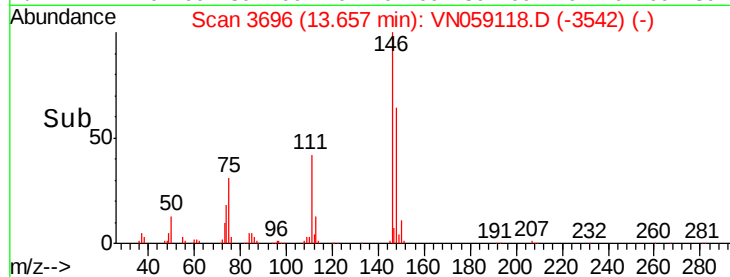
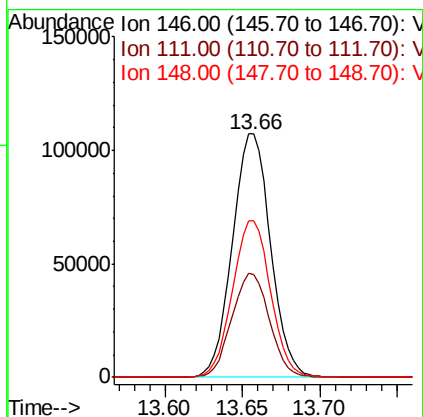
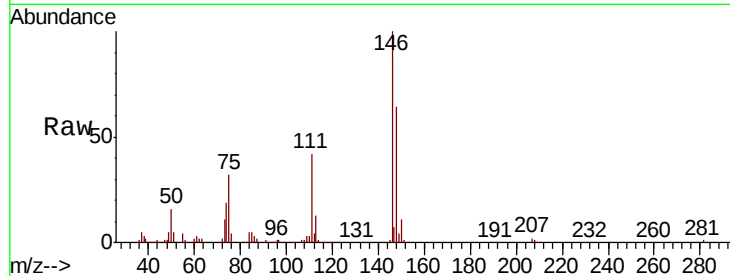




#87  
 1,2-Dichlorobenzene  
 Concen: 19.427 ug/l  
 RT: 13.66 min Scan# 3696  
 Delta R.T. -0.00 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

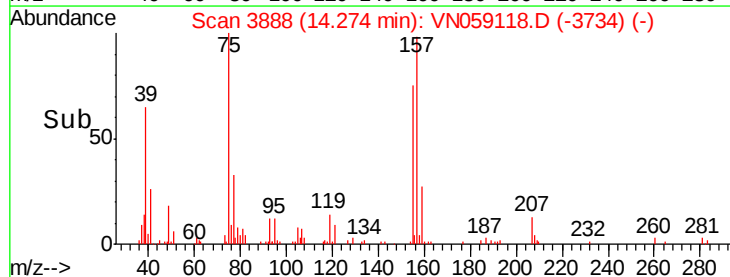
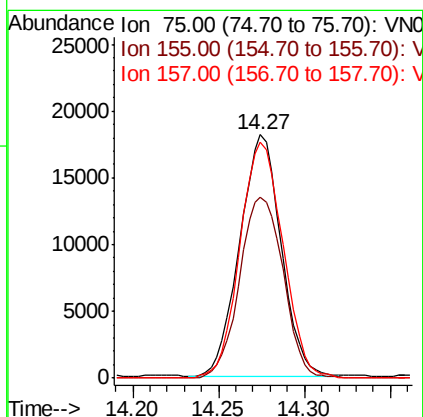
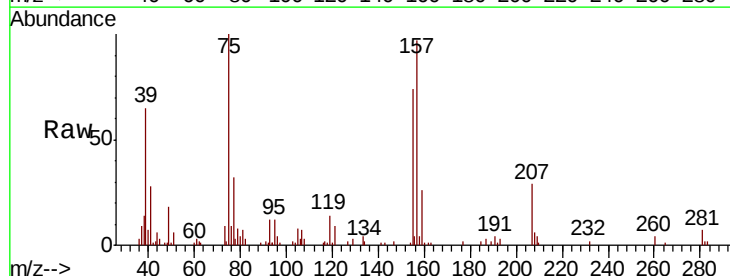
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

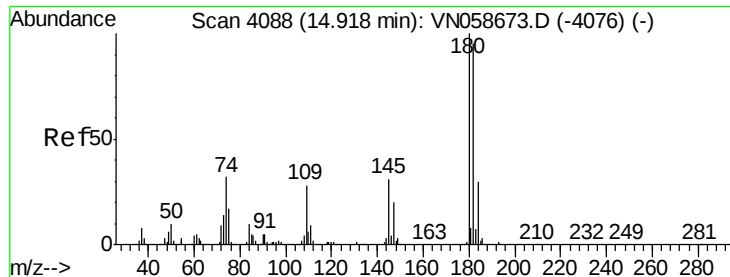
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.2  | 21.8  | 65.4  |
| 148     | 64.3  | 32.1  | 96.5  |



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.461 ug/l  
 RT: 14.27 min Scan# 3888  
 Delta R.T. -0.00 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 78.7  | 58.3  | 87.5  |
| 157     | 101.7 | 75.0  | 112.6 |

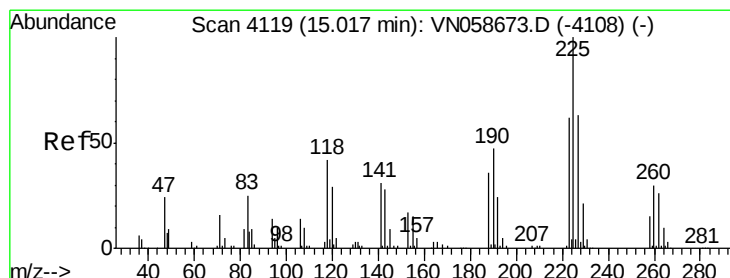
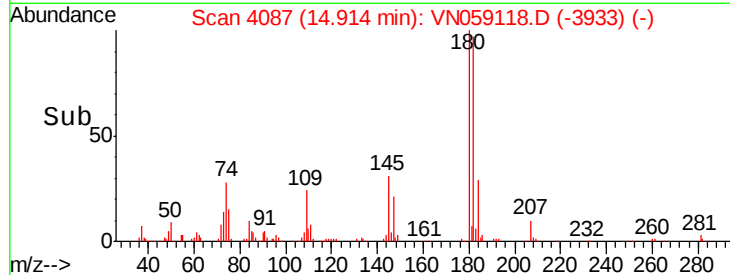
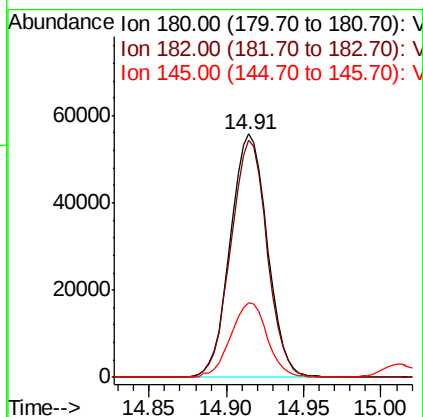
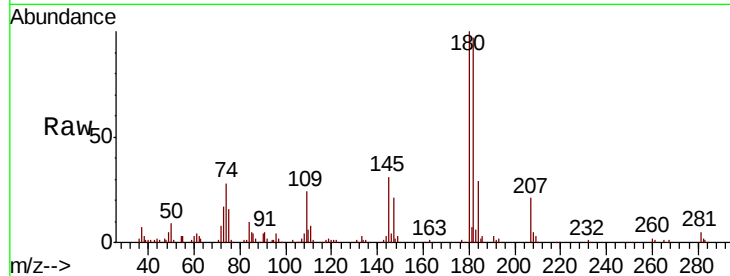




#89  
 1,2,4-Trichlorobenzene  
 Concen: 15.478 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. -0.00 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

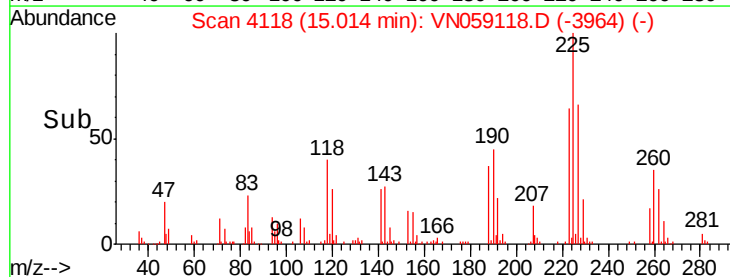
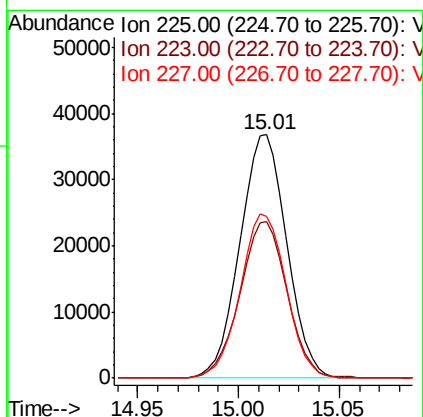
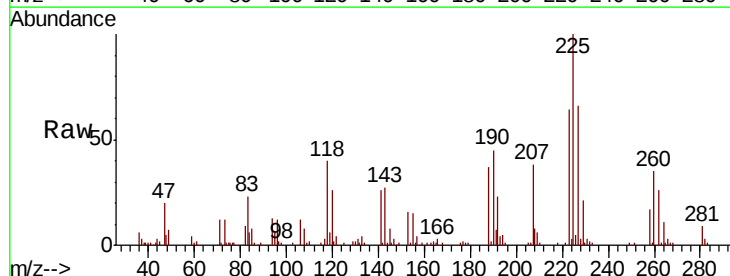
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1107WBSD01

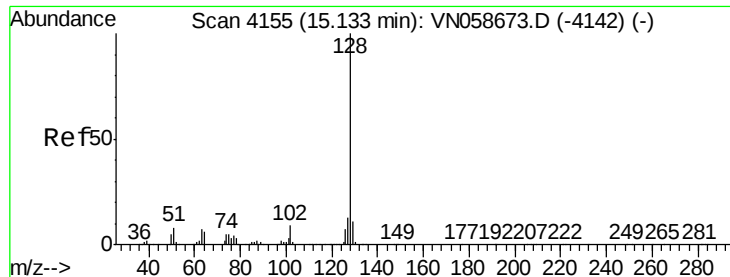
Tot Ion:180 Resp: 92516  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 75.3 112.9  
 145 30.2 24.8 37.2



#90  
 Hexachlorobutadiene  
 Concen: 19.431 ug/l  
 RT: 15.01 min Scan# 4118  
 Delta R.T. -0.00 min  
 Lab File: VN059118.D  
 Acq: 7 Nov 2019 13:42

Tgt Ion:225 Resp: 59973  
 Ion Ratio Lower Upper  
 225 100  
 223 64.5 0.0 126.2  
 227 65.9 0.0 127.0





#91

Naphthalene

Concen: 14.209 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

VN1107WBSD01

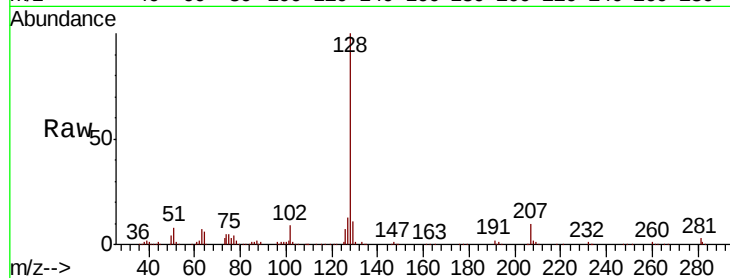
Tot Ion:128 Resp: 250756

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.2

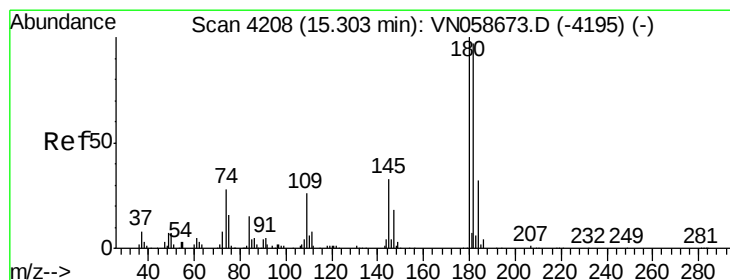
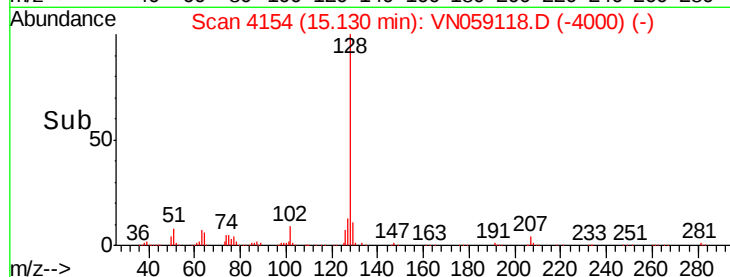
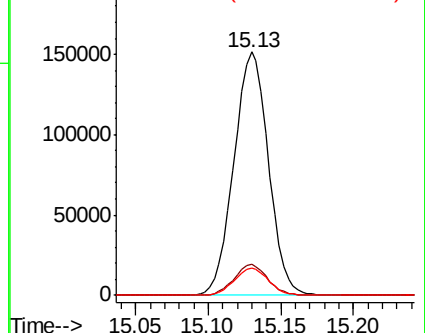
129 11.1 8.6 13.0



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: 16.422 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.01 min

Lab File: VN059118.D

Acq: 7 Nov 2019 13:42

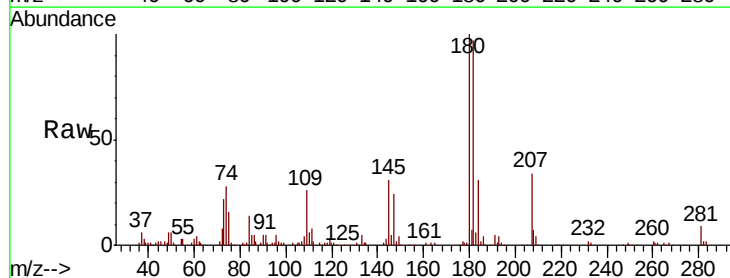
Tgt Ion:180 Resp: 95546

Ion Ratio Lower Upper

180 100

182 97.5 0.0 193.4

145 32.0 0.0 65.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

