

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\  
 Data File : VN054024.D  
 Acq On : 1 Mar 2019 12:51  
 Operator : JC/SP  
 Sample : K1560-07 LOD MDL 2.5ppb  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

Quant Time: Mar 02 00:24:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 01 11:11:48 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 114544   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 612364   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 513168   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 244206   | 30.36    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.20% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 208833   | 26.59    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 88.63%  |
| 63) Toluene-d8            | 10.09  | 98    | 751423   | 30.43    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.43% |

## Target Compounds

|                               |      |     |       |             | Ovalue |
|-------------------------------|------|-----|-------|-------------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 17404 | 2.687 ug/l  | 96     |
| 3) Chloromethane              | 2.06 | 50  | 23939 | 2.779 ug/l  | 92     |
| 4) Vinyl Chloride             | 2.19 | 62  | 23370 | 2.709 ug/l  | 96     |
| 5) Bromomethane               | 2.57 | 94  | 16411 | 3.092 ug/l  | 98     |
| 6) Chloroethane               | 2.71 | 64  | 14005 | 2.757 ug/l  | 97     |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 29295 | 2.795 ug/l  | 92     |
| 8) Diethyl Ether              | 3.41 | 74  | 9876  | 2.505 ug/l  | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.77 | 101 | 18399 | 2.730 ug/l  | 89     |
| 10) 1,1-Dichloroethene        | 3.74 | 96  | 15881 | 2.515 ug/l  | 91     |
| 11) Methyl Iodide             | 3.96 | 142 | 19646 | 2.098 ug/l  | 97     |
| 12) Methyl Acetate            | 4.33 | 43  | 15755 | 2.960 ug/l  | 91     |
| 13) Acrolein                  | 3.61 | 56  | 8213  | 36.214 ug/l | 94     |
| 14) Acrylonitrile             | 4.99 | 53  | 28584 | 11.174 ug/l | 92     |
| 15) Acetone                   | 3.82 | 58  | 9343  | 12.673 ug/l | 99     |
| 16) Carbon Disulfide          | 4.06 | 76  | 54706 | 2.671 ug/l  | 99     |
| 17) Allyl chloride            | 4.33 | 41  | 25711 | 2.303 ug/l  | 97     |
| 18) Methylene Chloride        | 4.55 | 84  | 21582 | 2.960 ug/l  | 91     |
| 19) trans-1,2-Dichloroethene  | 5.05 | 96  | 18377 | 2.683 ug/l  | 86     |
| 20) Diisopropyl ether         | 5.96 | 45  | 50290 | 2.251 ug/l  | 94     |
| 21) 1,1-Dichloroethane        | 5.85 | 63  | 34706 | 2.631 ug/l  | 98     |
| 22) cis-1,2-Dichloroethene    | 6.83 | 96  | 19588 | 2.569 ug/l  | 98     |
| 23) tert-Butyl Alcohol        | 4.76 | 59  | 2509  | 5.476 ug/l  | # 100  |
| 24) Methyl tert-Butyl Ether   | 5.04 | 73  | 40065 | 2.344 ug/l  | # 79   |
| 25) Chloroform                | 7.37 | 83  | 33850 | 2.659 ug/l  | 99     |
| 26) Cyclohexane               | 7.65 | 56  | 29161 | 2.429 ug/l  | # 97   |
| 29) 1,1-Dichloropropene       | 7.79 | 75  | 22616 | 2.358 ug/l  | 98     |
| 30) 2-Butanone                | 6.84 | 43  | 34532 | 11.402 ug/l | # 81   |
| 31) 2,2-Dichloropropane       | 6.83 | 77  | 25085 | 2.652 ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 27330 | 2.649 ug/l  | 99     |
| 33) Carbon Tetrachloride      | 7.77 | 117 | 23783 | 2.604 ug/l  | 98     |
| 34) Benzene                   | 8.04 | 78  | 74124 | 2.600 ug/l  | # 23   |
| 35) Methacrylonitrile         | 7.17 | 41  | 3586  | 1.059 ug/l  | 84     |
| 36) 1,2-Dichloroethane        | 8.12 | 62  | 25837 | 2.823 ug/l  | 96     |
| 37) Trichloroethene           | 8.84 | 130 | 19895 | 2.674 ug/l  | 93     |
| 38) Methylcyclohexane         | 9.08 | 83  | 27461 | 2.426 ug/l  | 95     |
| 39) 1,2-Dichloropropane       | 9.12 | 63  | 19929 | 2.552 ug/l  | 97     |
| 40) Dibromomethane            | 9.21 | 93  | 11261 | 2.515 ug/l  | 94     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\  
 Data File : VN054024.D  
 Acq On : 1 Mar 2019 12:51  
 Operator : JC/SP  
 Sample : K1560-07 LOD MDL 2.5ppb  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

Quant Time: Mar 02 00:24:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 01 11:11:48 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 41) Bromodichloromethane       | 9.40  | 83   | 24350    | 2.563  | ug/l   | 100      |
| 42) Vinyl Acetate              | 5.90  | 43   | 173092   | 11.063 | ug/l   | 100      |
| 43) Ethyl Acetate              | 6.94  | 43   | 11578    | 1.825  | ug/l # | 97       |
| 44) Isopropyl Acetate          | 8.54  | 43   | 330      | 0.030  | ug/l   | 100      |
| 45) 1,4-Dioxane                | 9.20  | 88   | 2772     | 70.859 | ug/l # | 85       |
| 46) Methyl methacrylate        | 9.20  | 41   | 10497    | 1.963  | ug/l   | 96       |
| 47) n-amyl Acetate             | 12.07 | 43   | 14275    | 1.746  | ug/l   | 97       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 21975    | 2.307  | ug/l   | 96       |
| 49) cis-1,3-Dichloropropene    | 9.84  | 75   | 24969    | 2.233  | ug/l   | 95       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 15636    | 2.490  | ug/l   | 96       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 15551    | 2.057  | ug/l   | 97       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 28316    | 2.627  | ug/l   | 96       |
| 53) Dibromochloromethane       | 10.90 | 129  | 16360    | 2.371  | ug/l   | 94       |
| 54) 1,2-Dibromoethane          | 11.01 | 107  | 14199    | 2.374  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether  | 9.70  | 63   | 31569    | 8.998  | ug/l   | 99       |
| 56) Bromoform                  | 12.13 | 173  | 10454    | 2.282  | ug/l # | 96       |
| 58) 4-Methyl-2-Pentanone       | 9.99  | 43   | 65074    | 11.254 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 40691    | 10.771 | ug/l   | 97       |
| 61) Tetrachloroethene          | 10.63 | 164  | 18619    | 2.610  | ug/l   | 96       |
| 62) Toluene                    | 10.16 | 91   | 77237    | 2.693  | ug/l   | 96       |
| 64) Chlorobenzene              | 11.44 | 112  | 44083    | 2.524  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 16801    | 2.620  | ug/l   | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 72525    | 2.419  | ug/l   | 98       |
| 67) m/p-Xylenes                | 11.62 | 106  | 53065    | 4.702  | ug/l   | 99       |
| 68) o-Xylene                   | 11.95 | 106  | 25836    | 2.361  | ug/l   | 99       |
| 69) Styrene                    | 11.96 | 104  | 35976    | 2.077  | ug/l   | 98       |
| 70) Isopropylbenzene           | 12.25 | 105  | 68569    | 2.388  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 18030    | 2.544  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 21056    | 3.913  | ug/l   | 44       |
| 73) Bromobenzene               | 12.53 | 156  | 17382    | 2.401  | ug/l   | 99       |
| 74) n-propylbenzene            | 12.59 | 91   | 76360    | 2.233  | ug/l   | 99       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 49216    | 2.458  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 54157    | 2.226  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 3714     | 1.939  | ug/l   | 94       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 43405    | 2.166  | ug/l   | 98       |
| 79) tert-butylbenzene          | 12.99 | 119  | 51301    | 2.407  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 50075    | 2.068  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.17 | 105  | 64674    | 2.212  | ug/l   | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 52427    | 2.100  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 26192    | 2.051  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 25112    | 2.060  | ug/l   | 96       |
| 85) n-Butylbenzene             | 13.62 | 91   | 37631    | 1.730  | ug/l   | 95       |
| 86) Hexachloroethane           | 13.88 | 117  | 11965    | 2.564  | ug/l   | 99       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 26582    | 2.146  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 2282     | 2.225  | ug/l # | 76       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 7031     | 1.117  | ug/l   | 95       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 10827    | 2.368  | ug/l   | 99       |
| 91) Naphthalene                | 15.13 | 128  | 14415    | 7.844  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 8931     | 1.437  | ug/l   | 92       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\  
Data File : VN054024.D  
Acq On : 1 Mar 2019 12:51  
Operator : JC/SP  
Sample : K1560-07 LOD MDL 2.5ppb  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

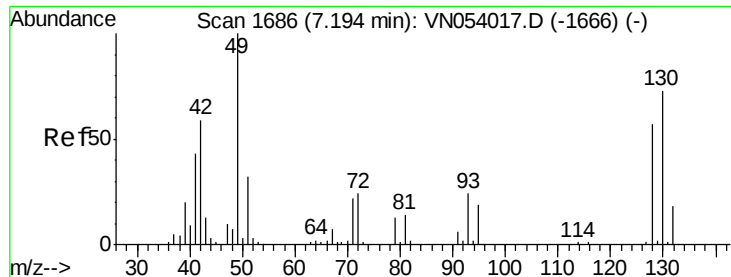
Quant Time: Mar 02 00:24:08 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Mar 01 11:11:48 2019  
Response via : Initial Calibration

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

-----

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

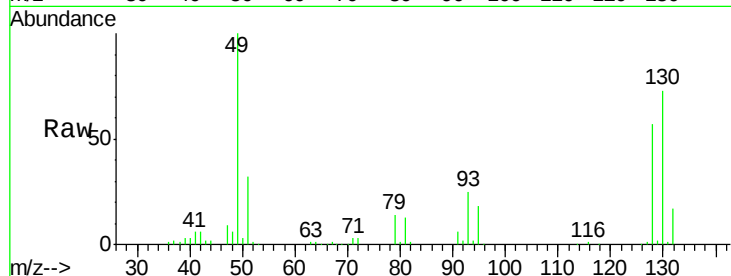
Tot Ion:128 Resp: 114544

Ion Ratio Lower Upper

128 100

49 174.5 0.0 431.8

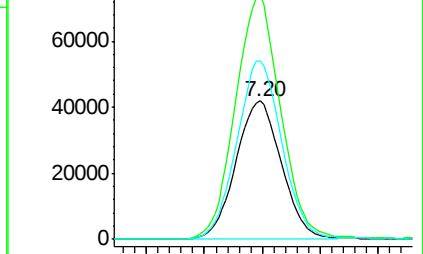
130 127.5 0.0 317.0



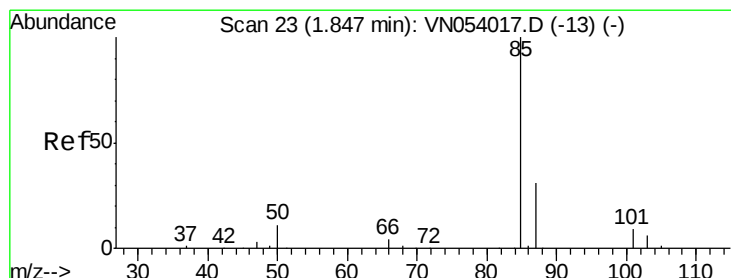
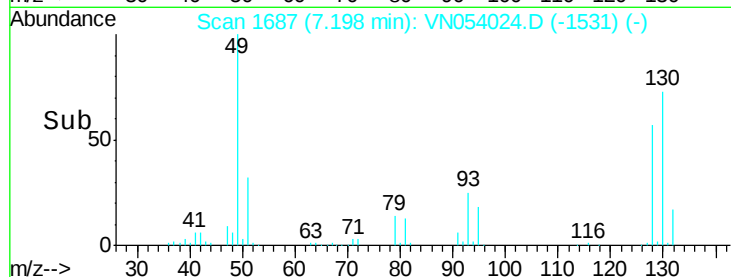
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 2.687 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054024.D

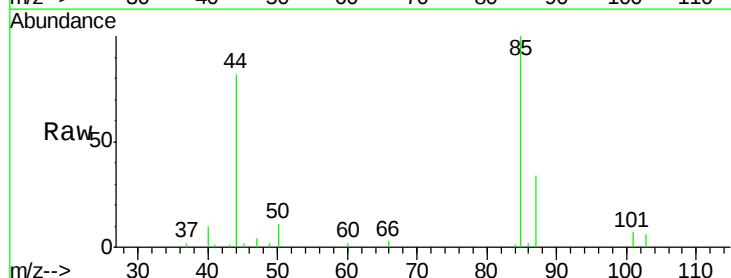
Acq: 1 Mar 2019 12:51

Tgt Ion: 85 Resp: 17404

Ion Ratio Lower Upper

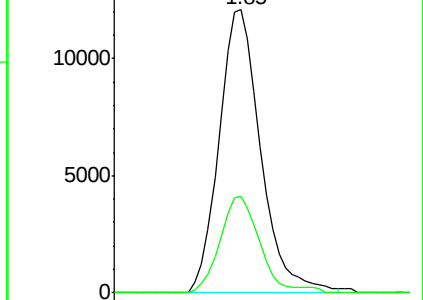
85 100

87 34.2 16.1 48.3

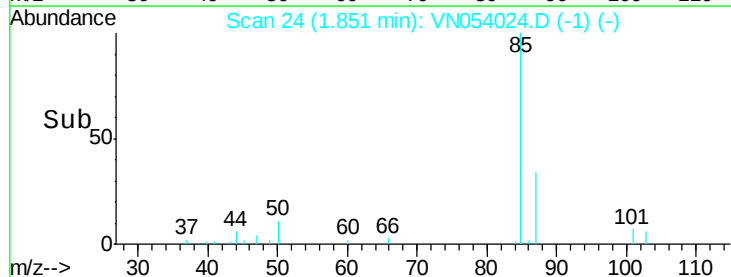


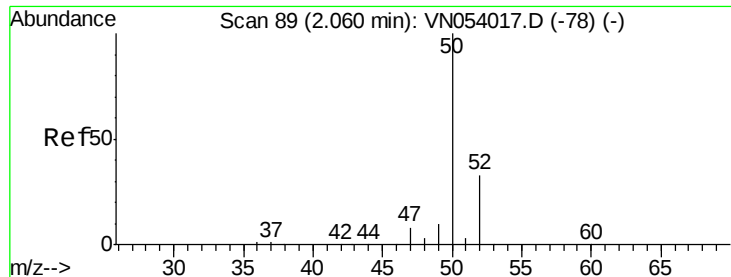
Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN



Time-->





#3

Chloromethane

Concen: 2.779 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

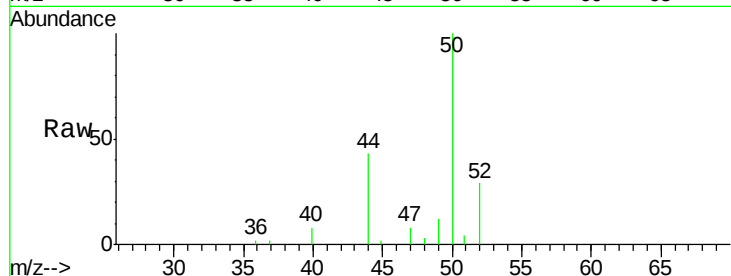
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 50 Resp: 23939

Ion Ratio Lower Upper

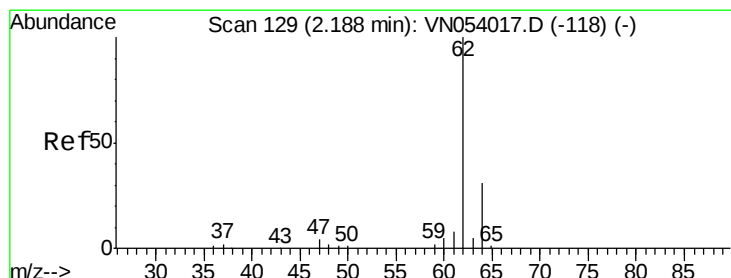
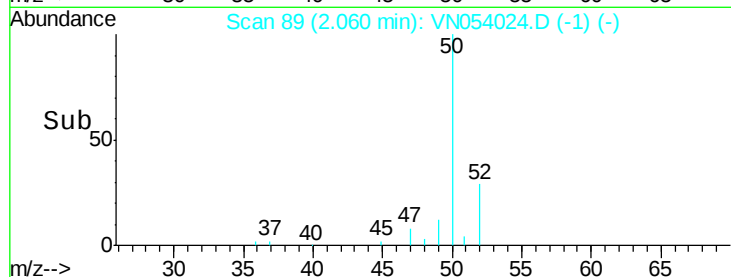
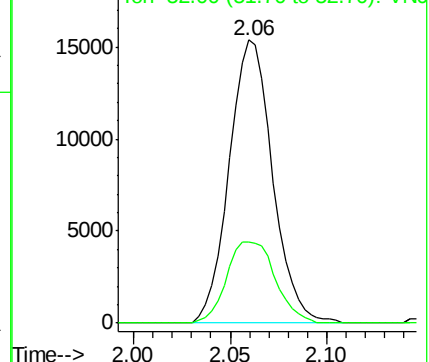
50 100

52 28.7 26.5 39.7



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 2.709 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054024.D

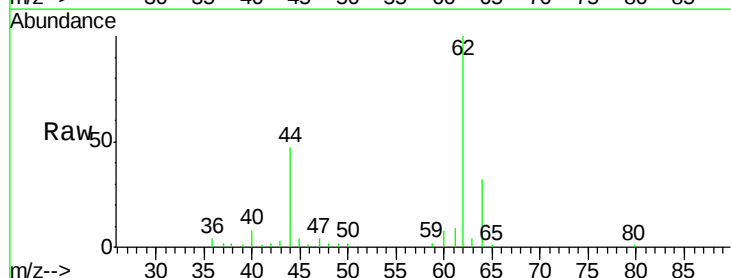
Acq: 1 Mar 2019 12:51

Tgt Ion: 62 Resp: 23370

Ion Ratio Lower Upper

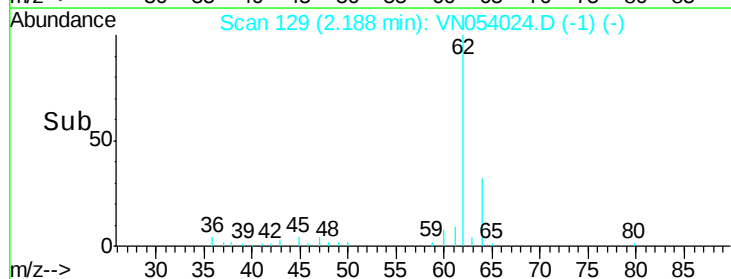
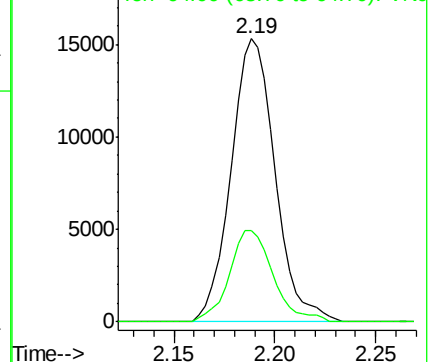
62 100

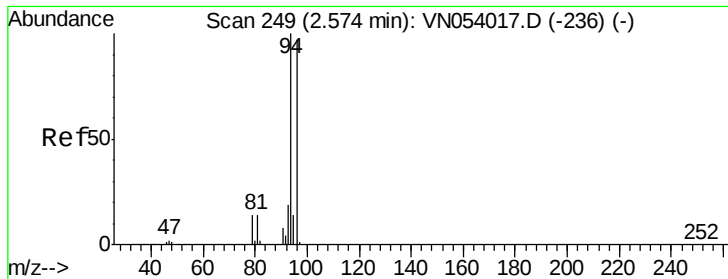
64 32.4 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 3.092 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

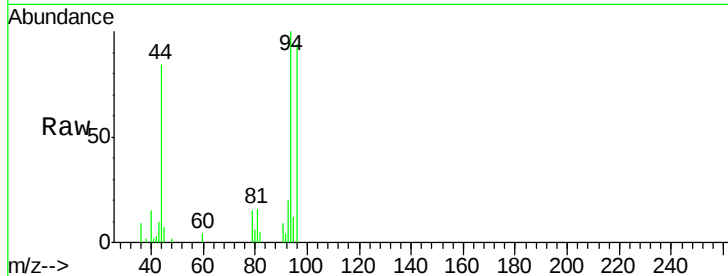
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 94 Resp: 16411

Ion Ratio Lower Upper

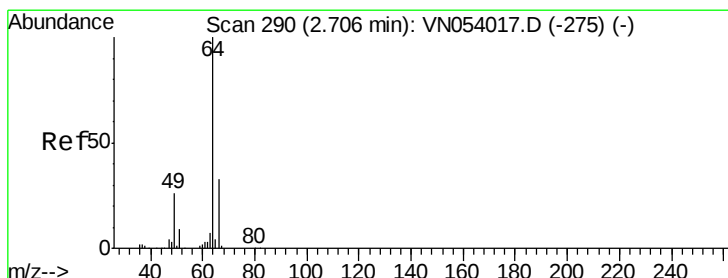
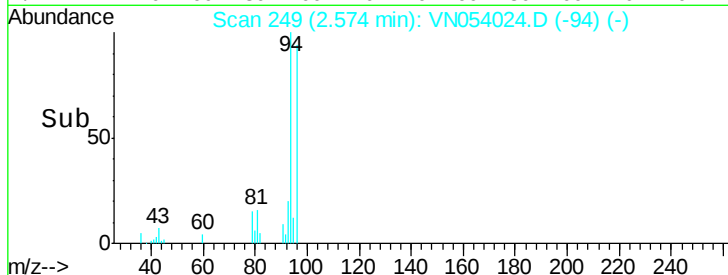
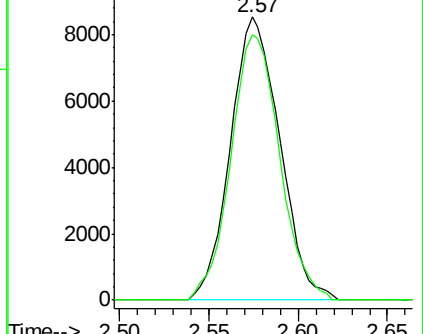
94 100

96 93.6 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 2.757 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054024.D

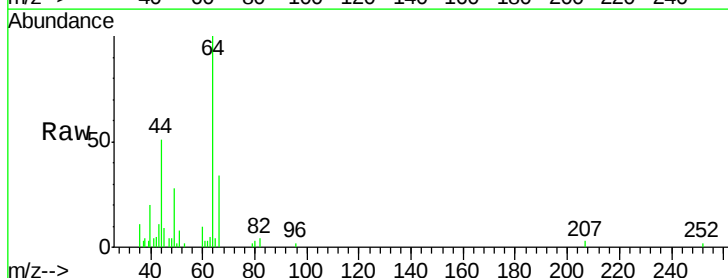
Acq: 1 Mar 2019 12:51

Tgt Ion: 64 Resp: 14005

Ion Ratio Lower Upper

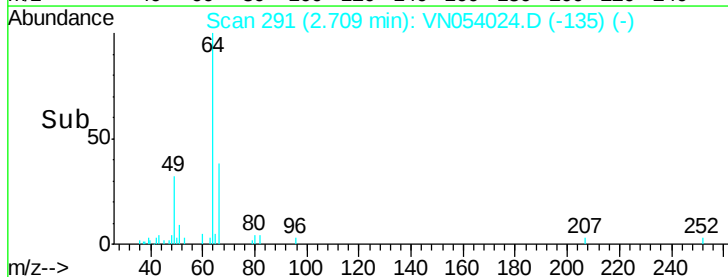
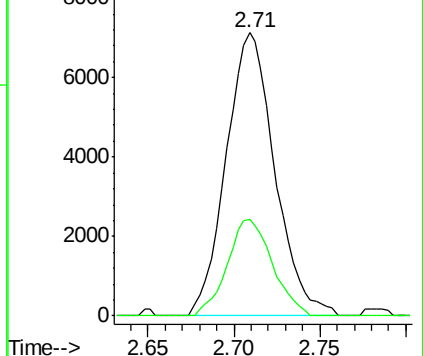
64 100

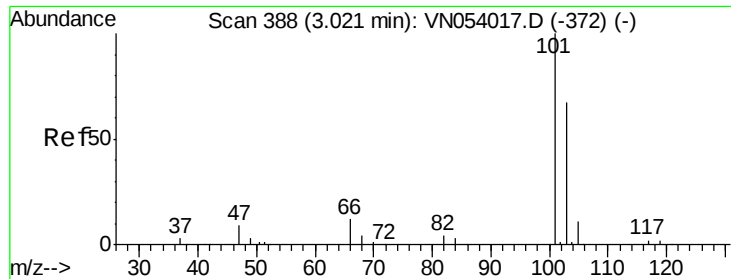
66 33.9 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO



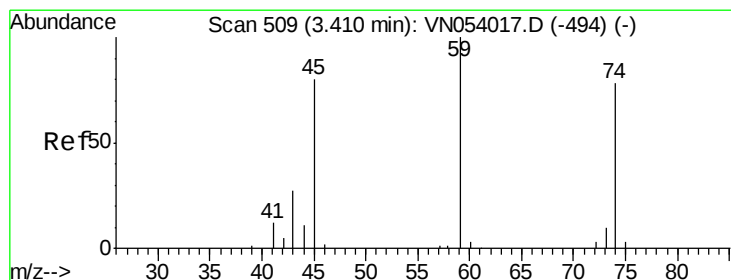
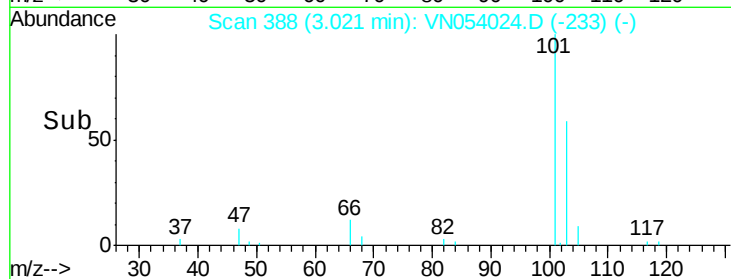
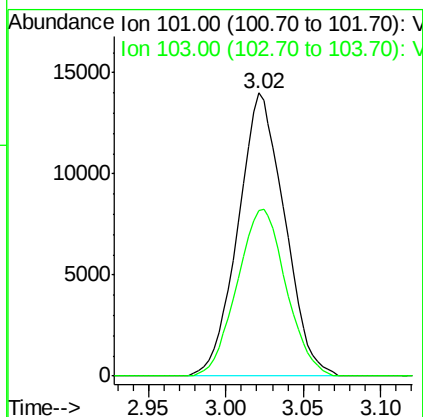
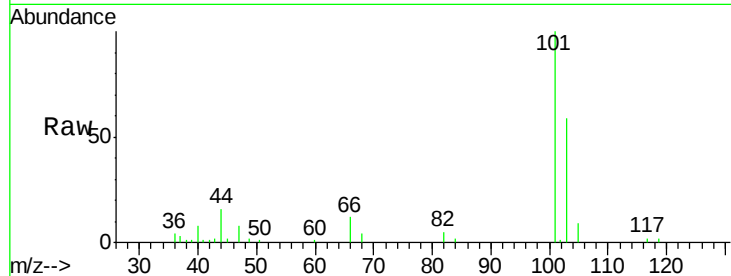


#7

Trichlorofluoromethane  
Concen: 2.795 ug/l  
RT: 3.02 min Scan# 388  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

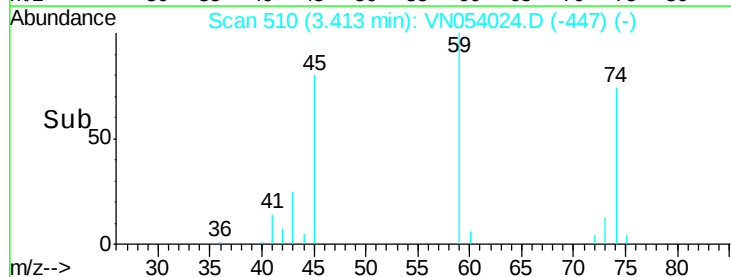
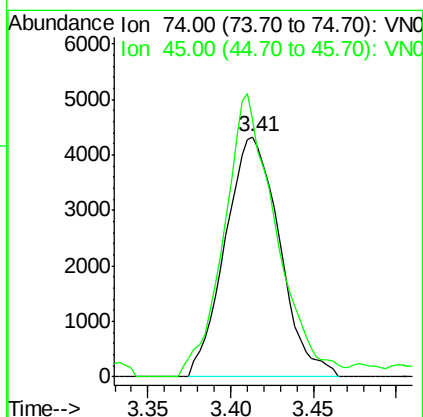
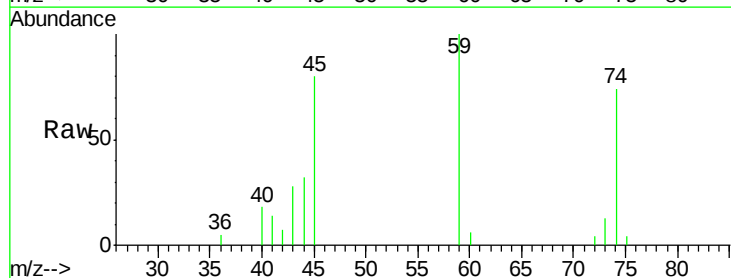
Tot Ion:101 Resp: 29295  
Ion Ratio Lower Upper  
101 100  
103 58.6 52.1 78.1

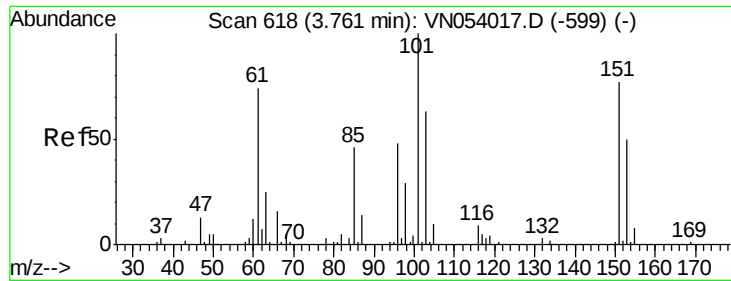


#8

Diethyl Ether  
Concen: 2.505 ug/l  
RT: 3.41 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 74 Resp: 9876  
Ion Ratio Lower Upper  
74 100  
45 112.9 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.730 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.01 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

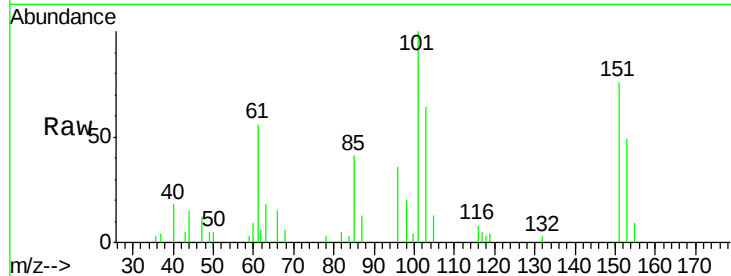
Tot Ion:101 Resp: 18399

Ion Ratio Lower Upper

101 100

85 26.5 0.0 82.6

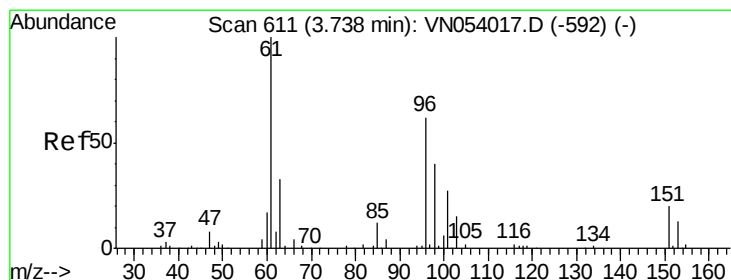
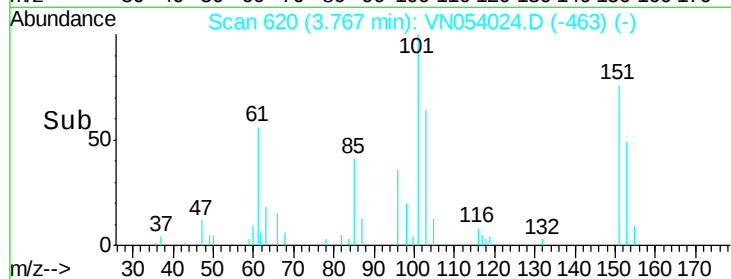
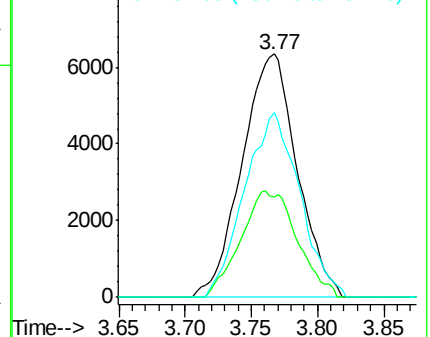
151 75.9 0.0 158.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.515 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.01 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

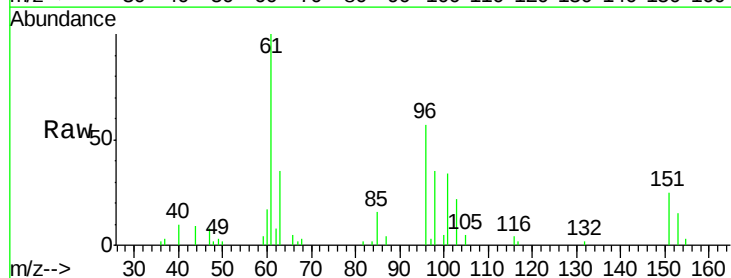
Tgt Ion: 96 Resp: 15881

Ion Ratio Lower Upper

96 100

61 176.7 129.4 194.2

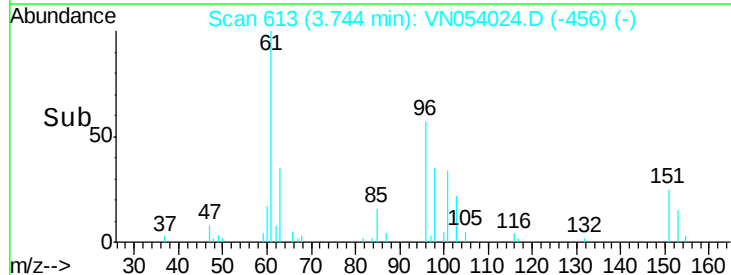
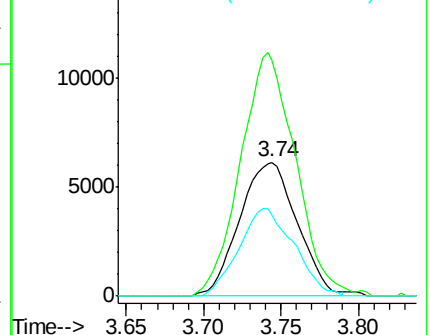
98 61.0 50.4 75.6

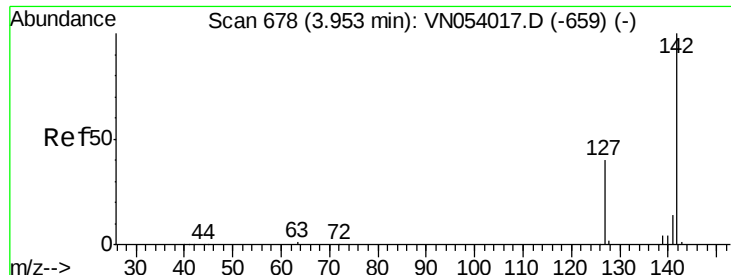


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

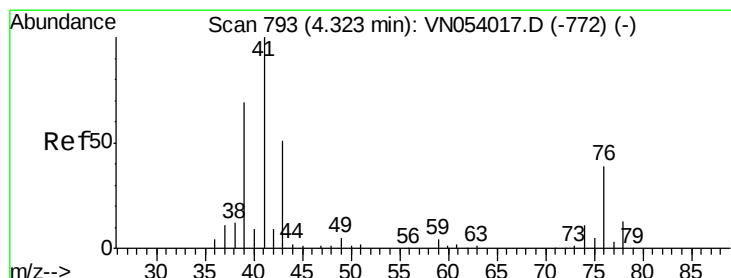
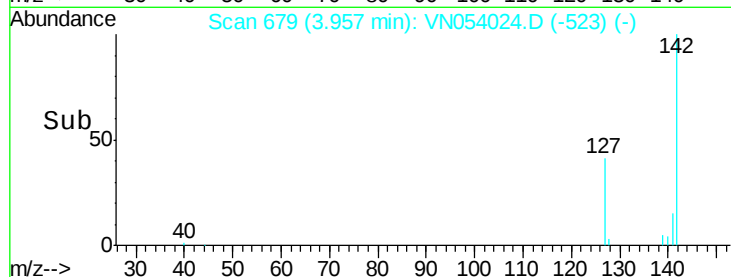
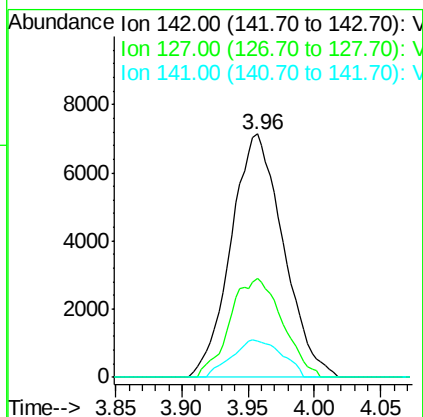
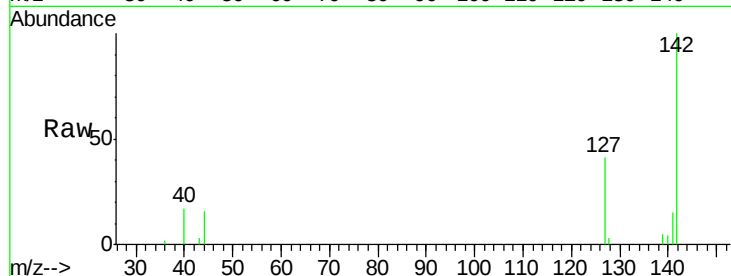




#11  
Methvl Iodide  
Concen: 2.098 ug/l  
RT: 3.96 min Scan# 679  
Delta R.T. 0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

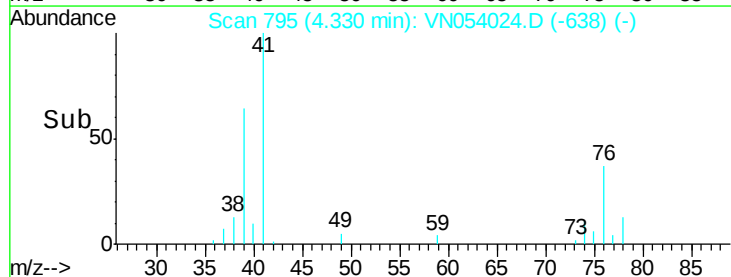
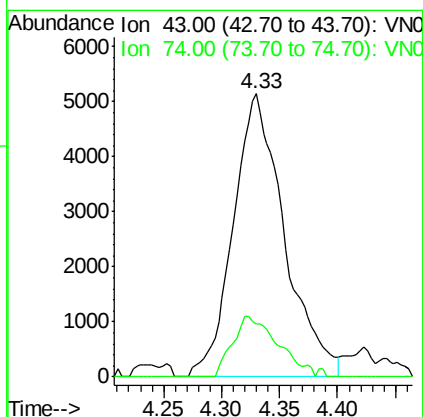
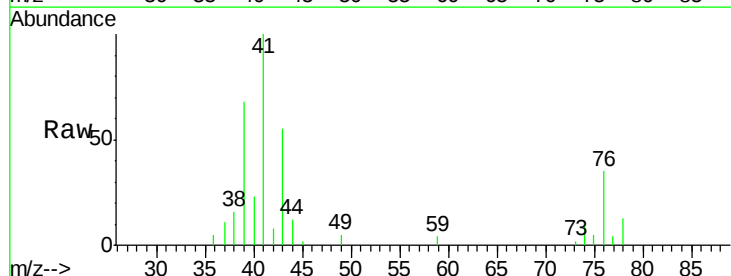
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

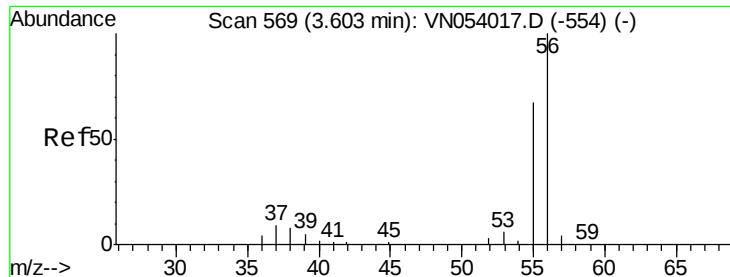
Tot Ion:142 Resp: 19646  
Ion Ratio Lower Upper  
142 100  
127 40.7 19.4 58.1  
141 15.0 7.2 21.6



#12  
Methyl Acetate  
Concen: 2.960 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.01 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 43 Resp: 15755  
Ion Ratio Lower Upper  
43 100  
74 19.3 18.9 28.3





#13

Acrolein

Concen: 36.214 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

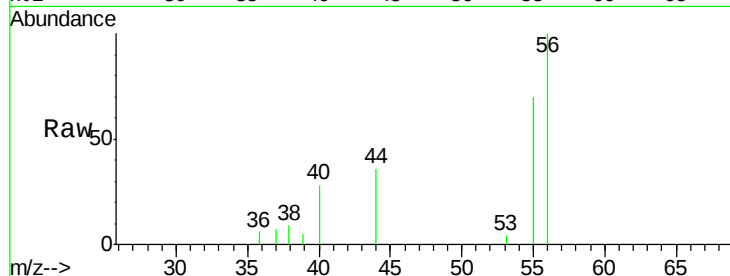
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 56 Resp: 8213

Ion Ratio Lower Upper

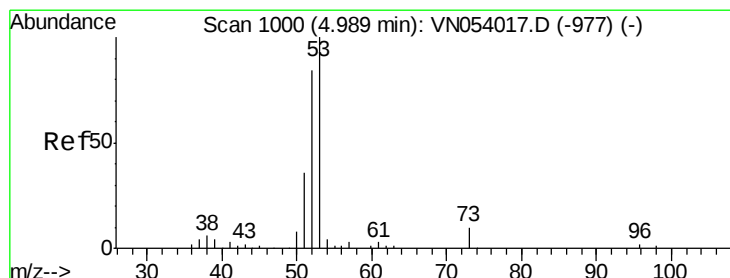
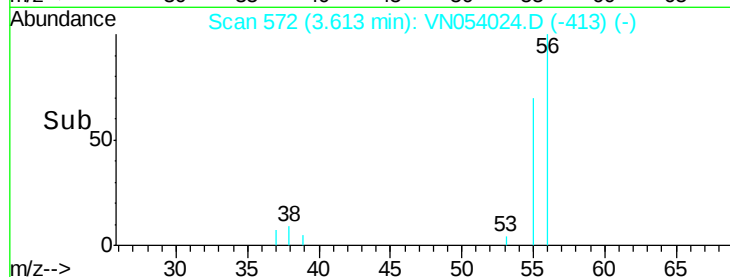
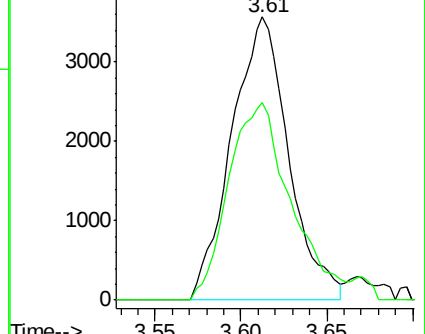
56 100

55 76.1 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 11.174 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

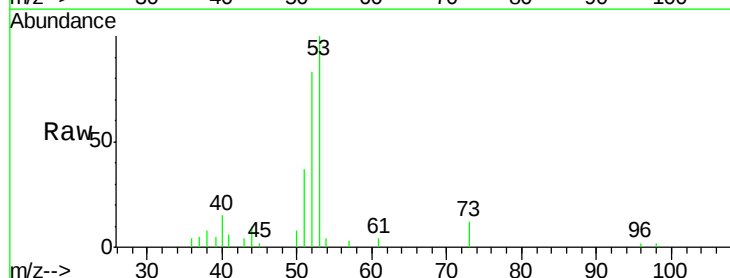
Tgt Ion: 53 Resp: 28584

Ion Ratio Lower Upper

53 100

52 88.3 39.9 119.7

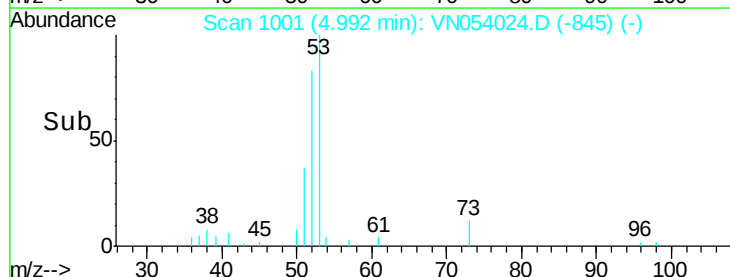
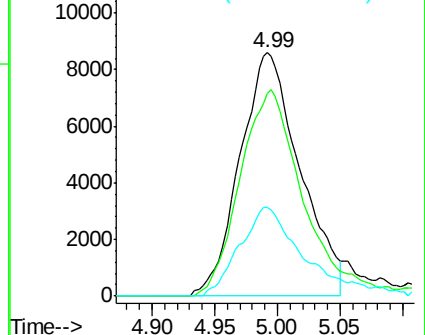
51 36.8 17.6 52.9

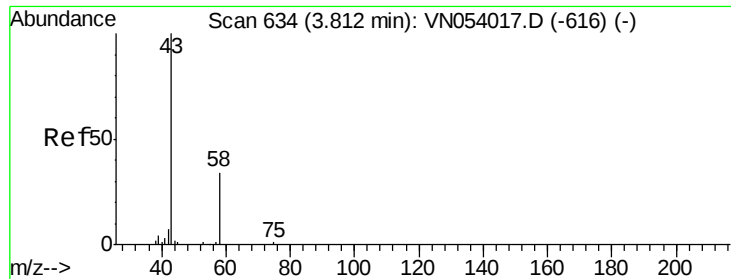


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 12.673 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

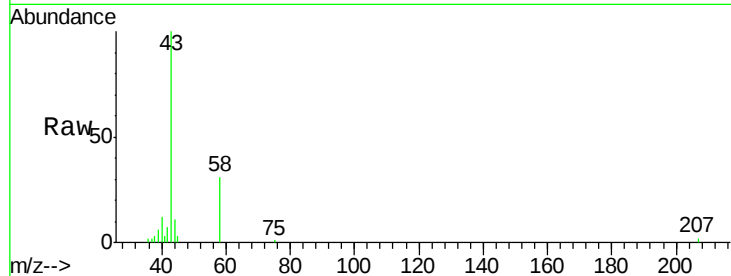
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 58 Resp: 9343

Ion Ratio Lower Upper

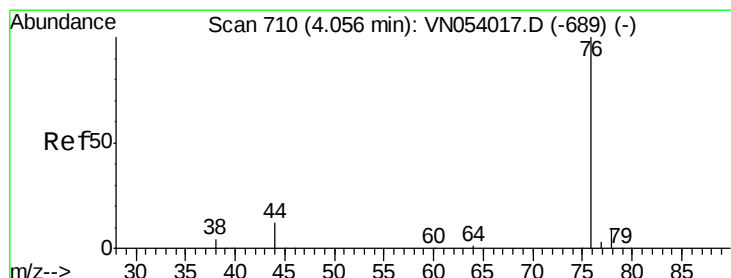
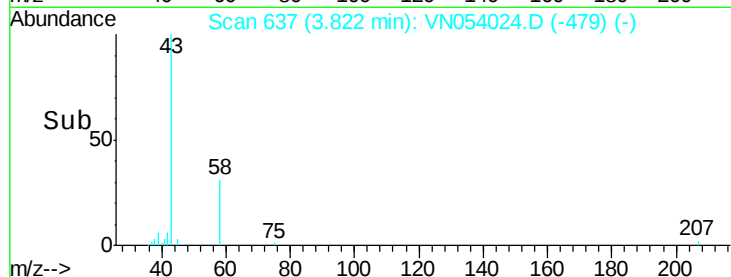
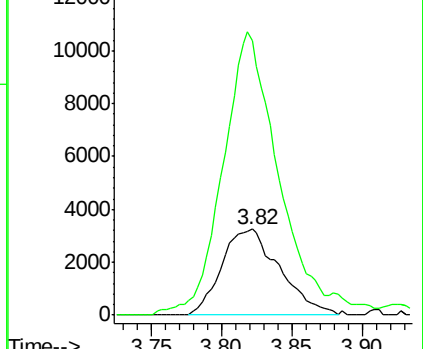
58 100

43 302.0 243.6 365.4



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 2.671 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN054024.D

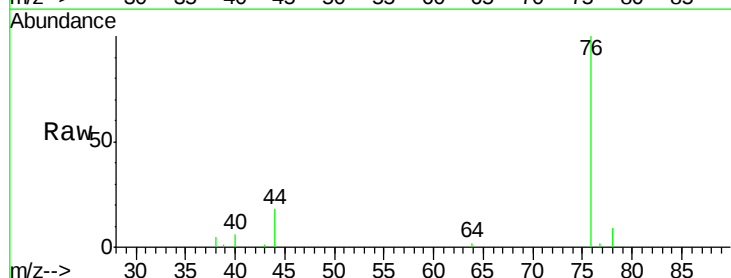
Acq: 1 Mar 2019 12:51

Tgt Ion: 76 Resp: 54706

Ion Ratio Lower Upper

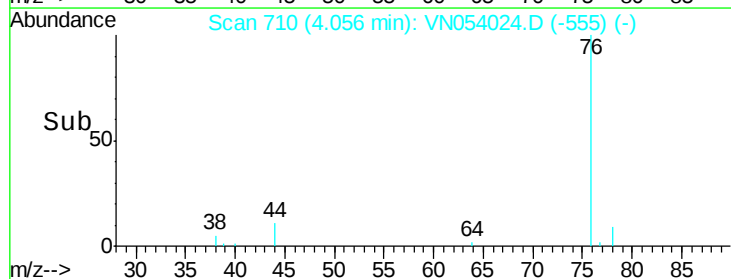
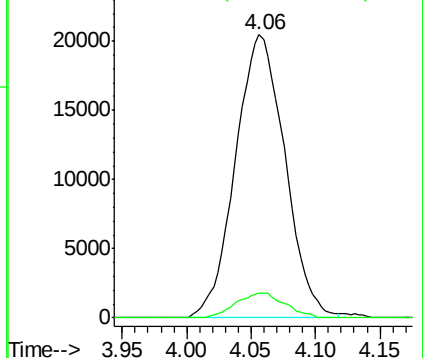
76 100

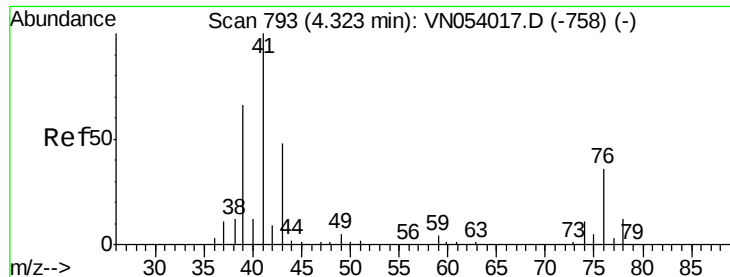
78 8.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

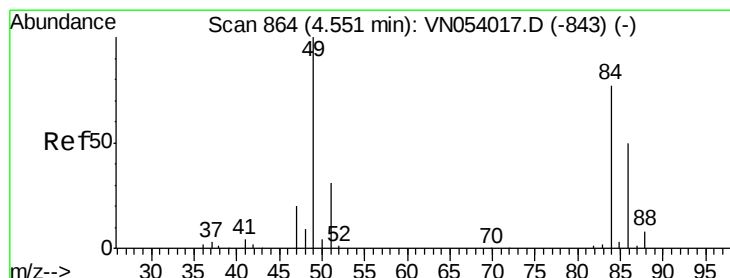
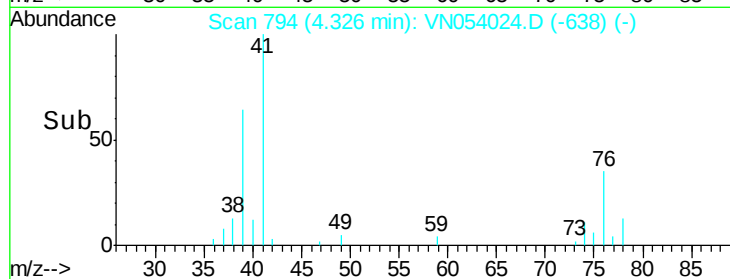
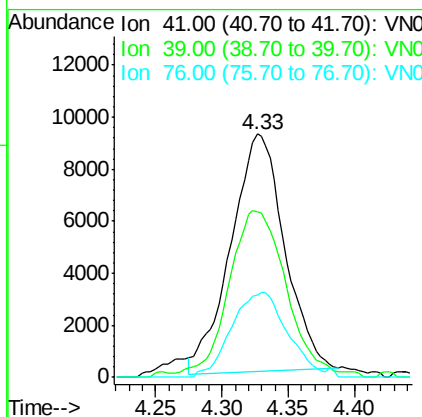
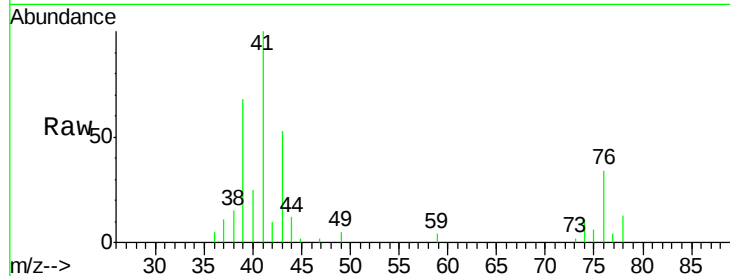




#17  
Allvl chloride  
Concen: 2.303 ug/l  
RT: 4.33 min Scan# 794  
Delta R.T. 0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

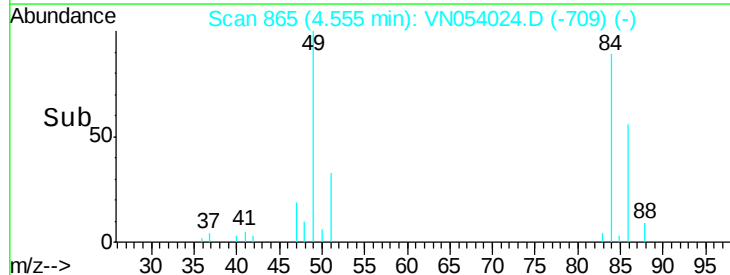
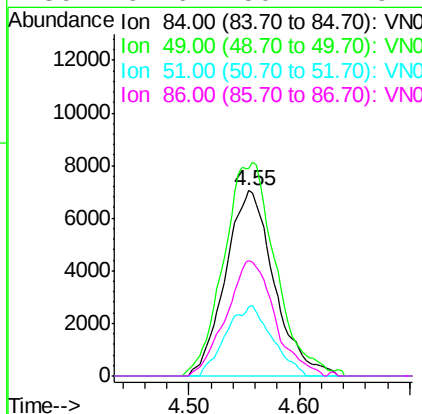
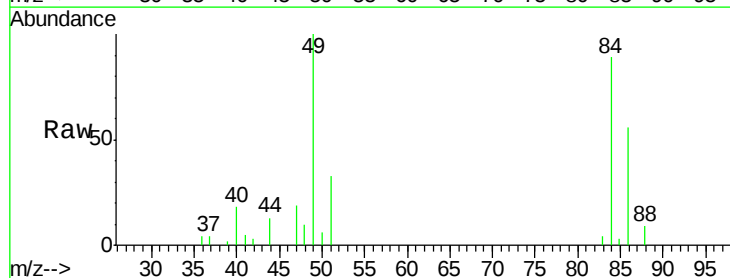
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

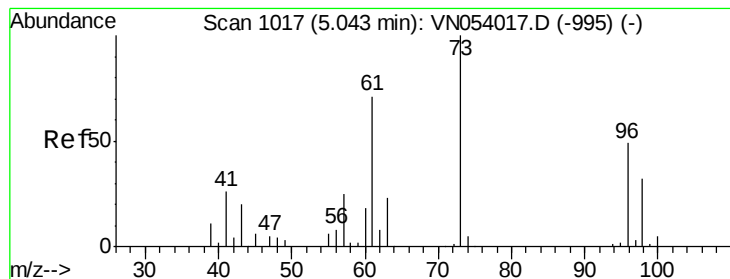
Tot Ion: 41 Resp: 25711  
Ion Ratio Lower Upper  
41 100  
39 68.5 32.8 98.3  
76 35.5 18.6 55.8



#18  
Methylene Chloride  
Concen: 2.960 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 84 Resp: 21582  
Ion Ratio Lower Upper  
84 100  
49 109.2 101.4 152.0  
51 37.5 31.7 47.5  
86 62.6 50.1 75.1





#19

trans-1,2-Dichloroethene

Concen: 2.683 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

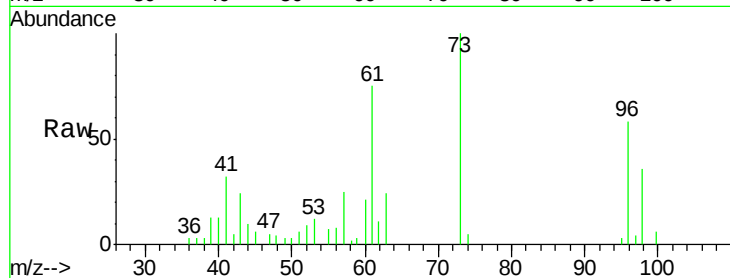
Tot Ion: 96 Resp: 18377

Ion Ratio Lower Upper

96 100

61 124.3 118.2 177.4

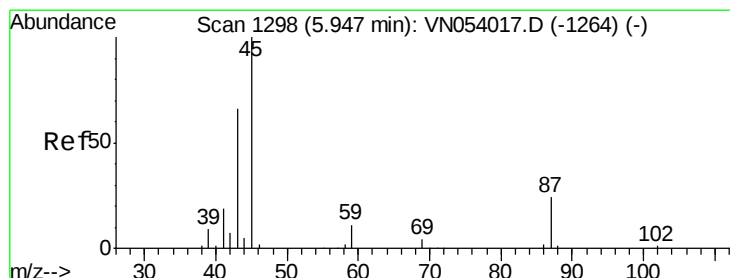
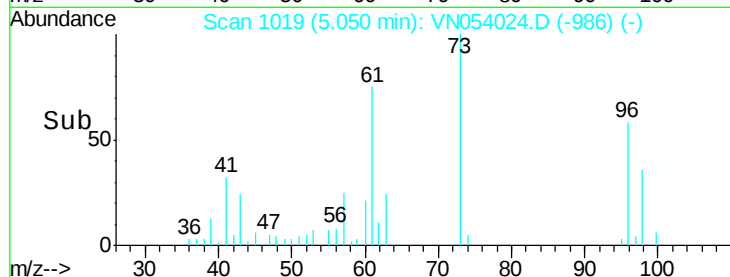
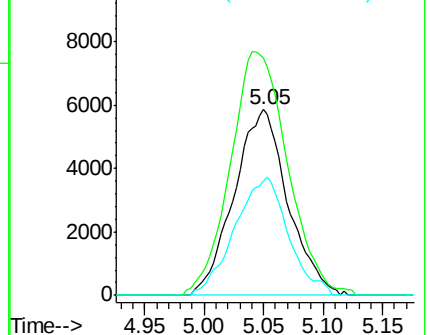
98 61.5 51.4 77.2



Abundance Ion 96.00 (95.70 to 96.70): VN054017.D (-995) (-)

Ion 61.00 (60.70 to 61.70): VN054017.D (-995) (-)

Ion 98.00 (97.70 to 98.70): VN054017.D (-995) (-)



#20

Diisopropyl ether

Concen: 2.251 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Tgt Ion: 45 Resp: 50290

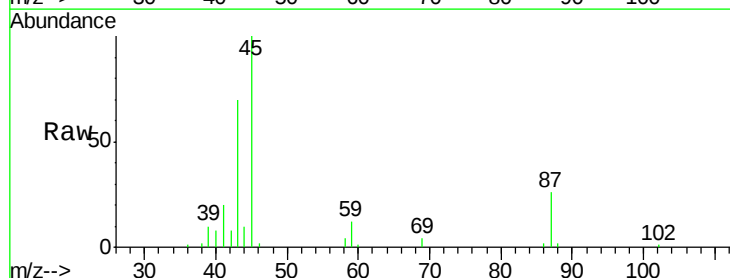
Ion Ratio Lower Upper

45 100

43 65.8 47.8 71.8

87 25.5 21.3 31.9

59 12.4 8.9 13.3

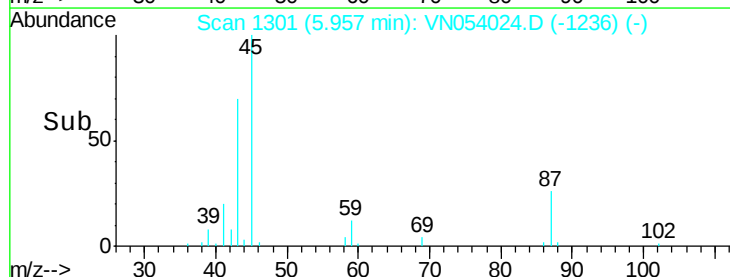
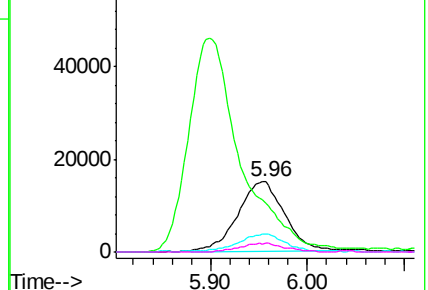


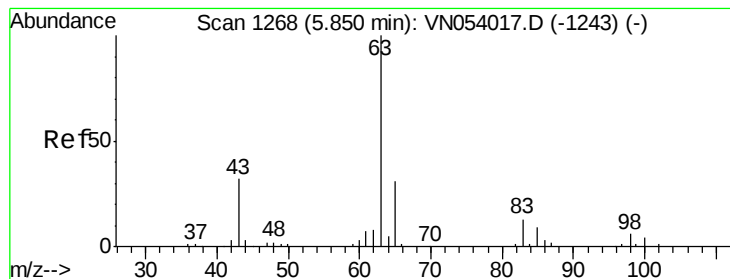
Abundance Ion 45.00 (44.70 to 45.70): VN054017.D (-1264) (-)

Ion 43.00 (42.70 to 43.70): VN054017.D (-1264) (-)

Ion 87.00 (86.70 to 87.70): VN054017.D (-1264) (-)

Ion 59.00 (58.70 to 59.70): VN054017.D (-1264) (-)





#21

1,1-Dichloroethane

Concen: 2.631 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

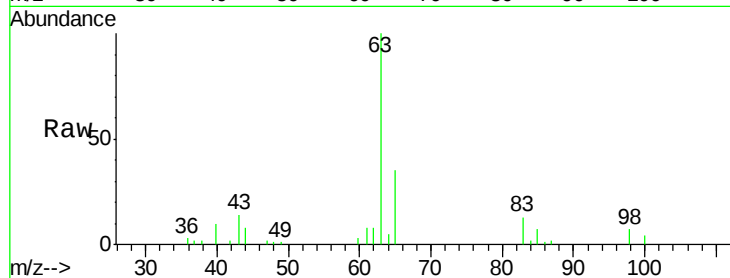
Tot Ion: 63 Resp: 34706

Ion Ratio Lower Upper

63 100

98 7.0 3.0 9.2

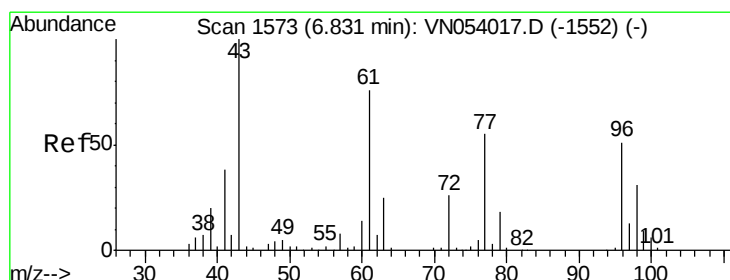
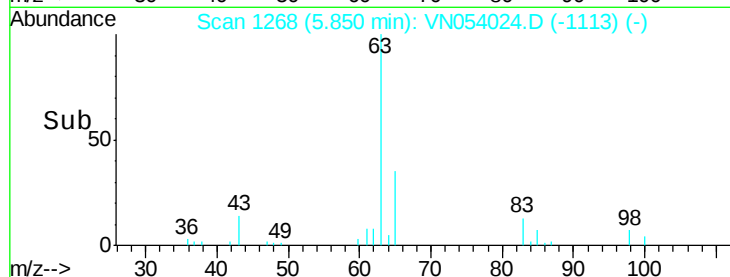
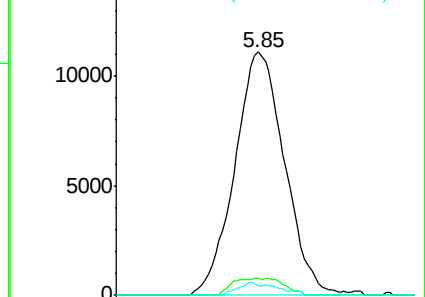
100 3.9 1.8 5.5



Abundance Ion 63.00 (62.70 to 63.70): VN054017.D (-1243) (-)

Ion 98.00 (97.70 to 98.70): VN054017.D (-1243) (-)

Ion 100.00 (99.70 to 100.70): VN054017.D (-1243) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.569 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

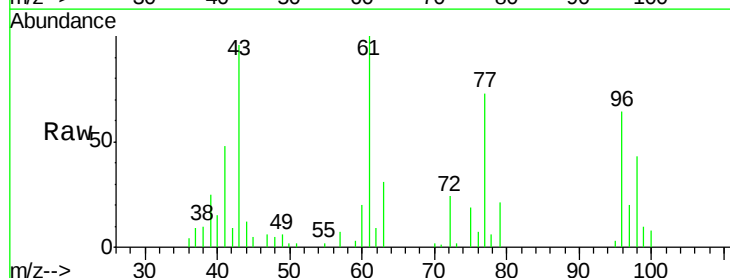
Tgt Ion: 96 Resp: 19588

Ion Ratio Lower Upper

96 100

61 149.8 116.7 175.1

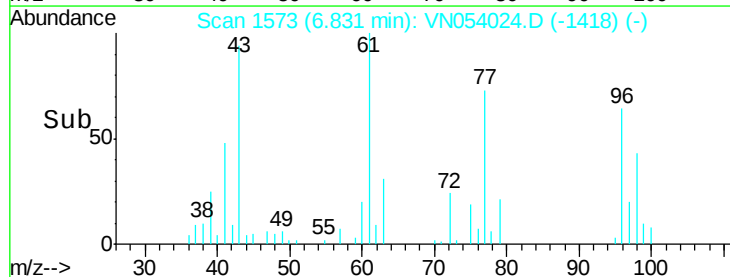
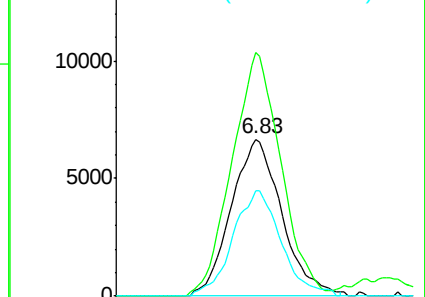
98 63.4 50.8 76.2

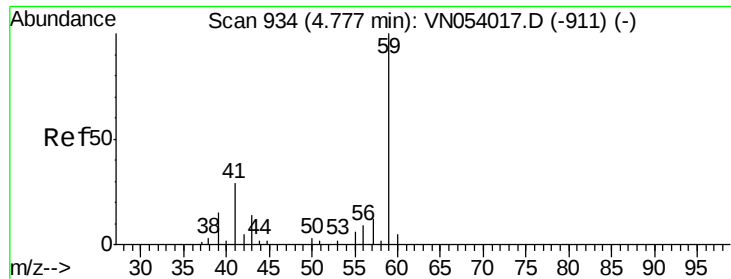


Abundance Ion 96.00 (95.70 to 96.70): VN054017.D (-1552) (-)

Ion 61.00 (60.70 to 61.70): VN054017.D (-1552) (-)

Ion 98.00 (97.70 to 98.70): VN054017.D (-1552) (-)

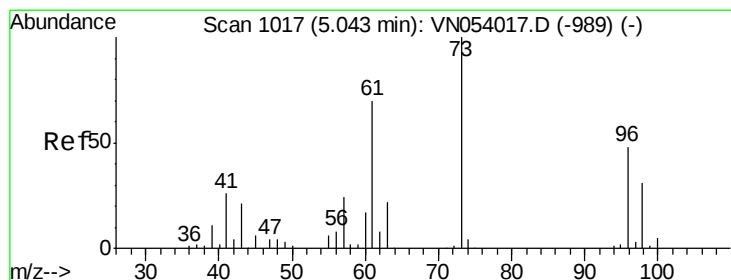
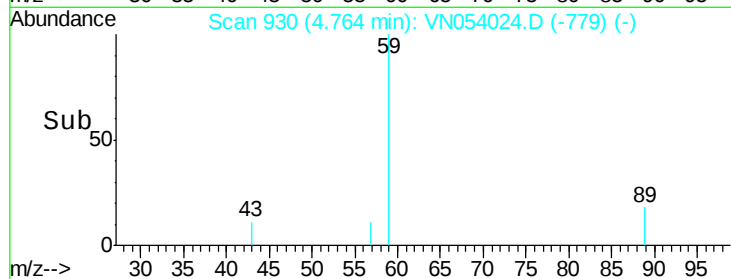
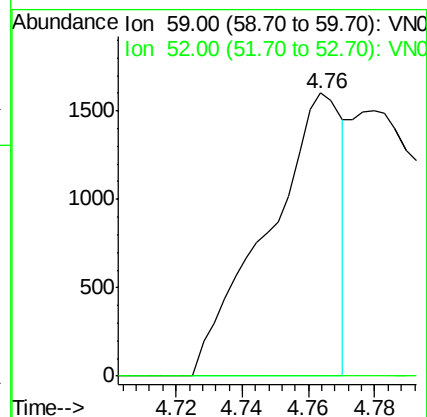
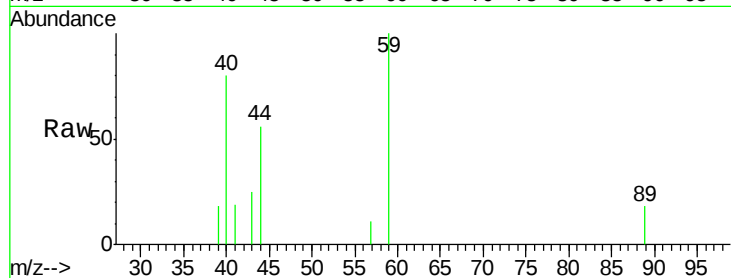




#23  
 tert-Butyl Alcohol  
 Concen: 5.476 ug/l  
 RT: 4.76 min Scan# 930  
 Delta R.T. -0.01 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

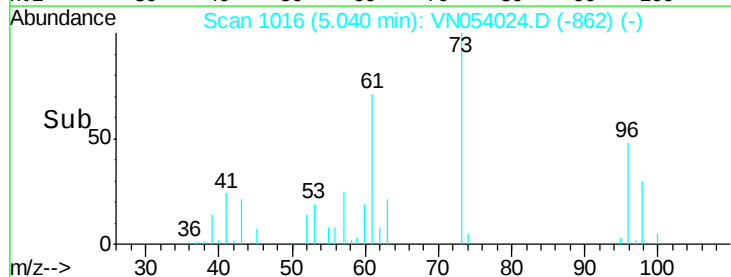
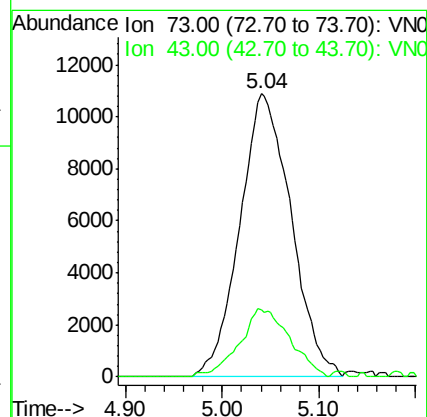
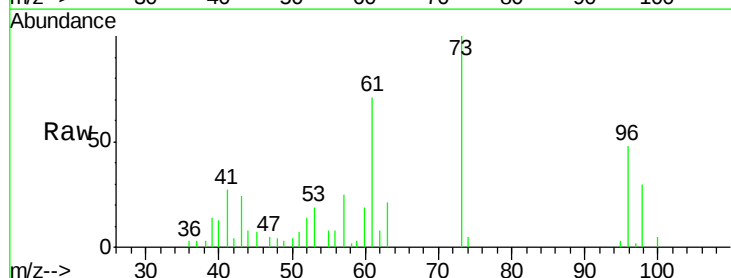
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

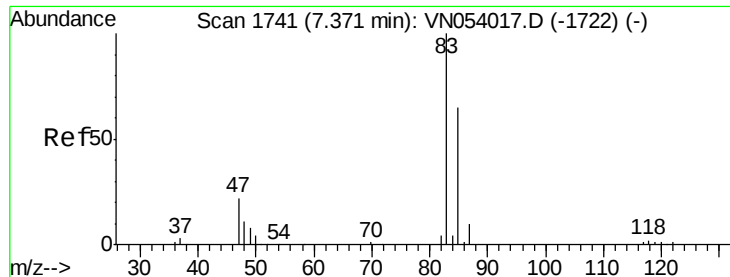
Tot Ion: 59 Resp: 2509  
 Ion Ratio Lower Upper  
 59 100  
 52 0.0 0.0 0.0



#24  
 Methyl tert-Butyl Ether  
 Concen: 2.344 ug/l  
 RT: 5.04 min Scan# 1016  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion: 73 Resp: 40065  
 Ion Ratio Lower Upper  
 73 100  
 43 10.3 15.8 23.8#

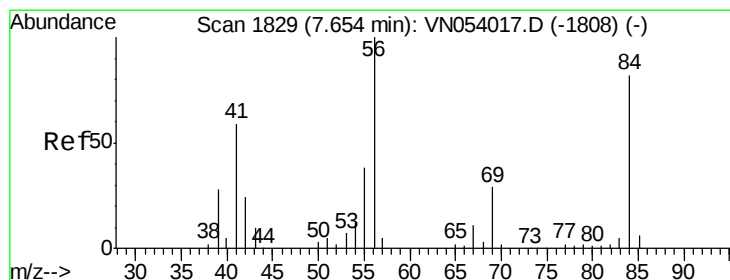
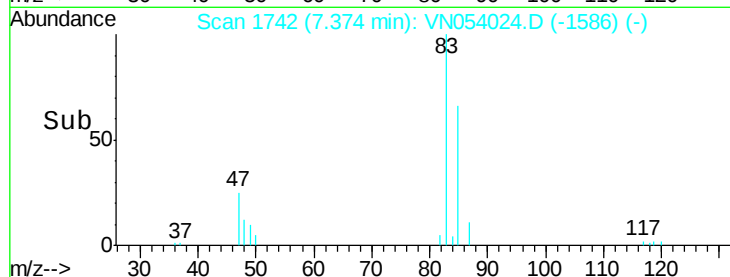
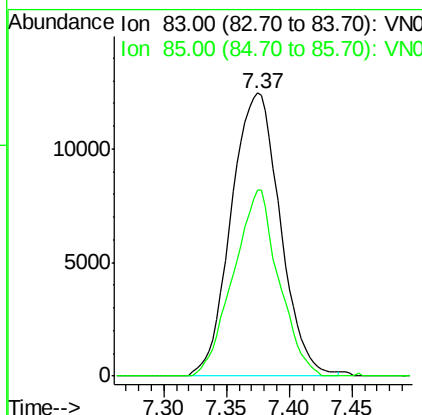
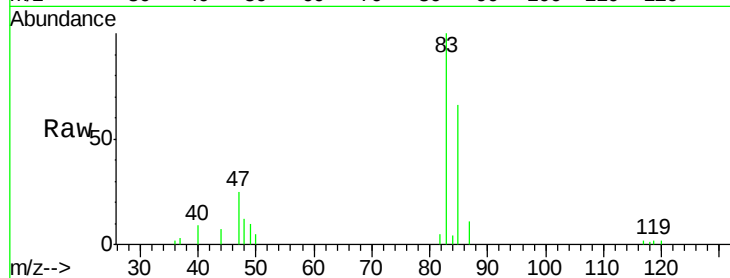




#25  
Chloroform  
Concen: 2.659 ug/l  
RT: 7.37 min Scan# 1742  
Delta R.T. 0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

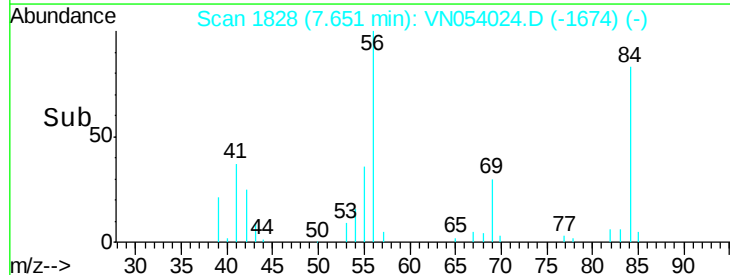
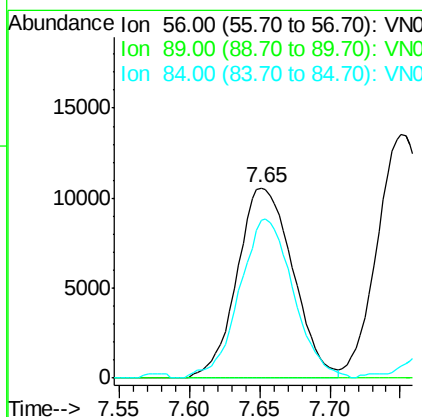
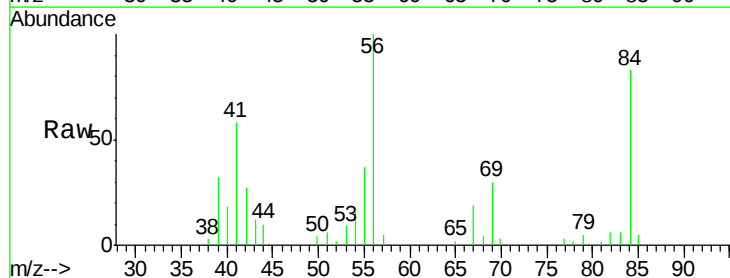
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

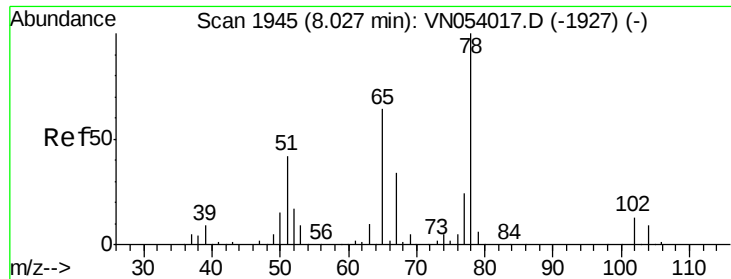
Tot Ion: 83 Resp: 33850  
Ion Ratio Lower Upper  
83 100  
85 65.7 51.7 77.5



#26  
Cyclohexane  
Concen: 2.429 ug/l  
RT: 7.65 min Scan# 1828  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 56 Resp: 29161  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.5 0.7#  
84 79.8 66.2 99.2





#27

1,2-Dichloroethane-d4

Concen: 2.429 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

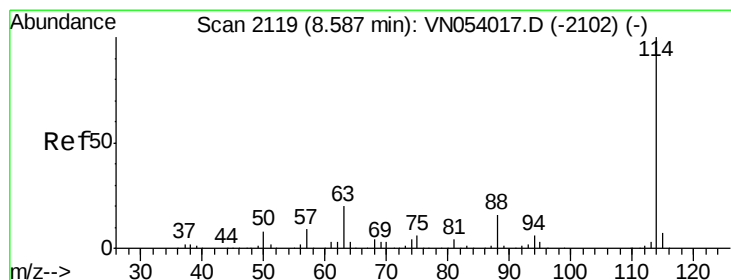
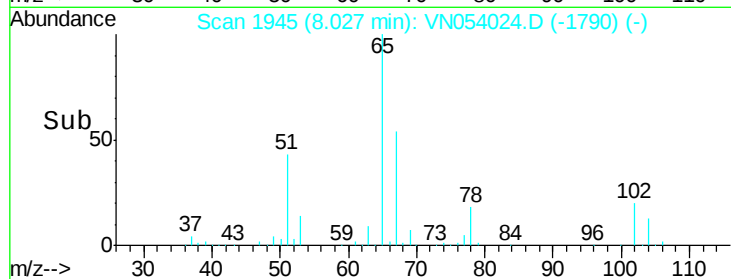
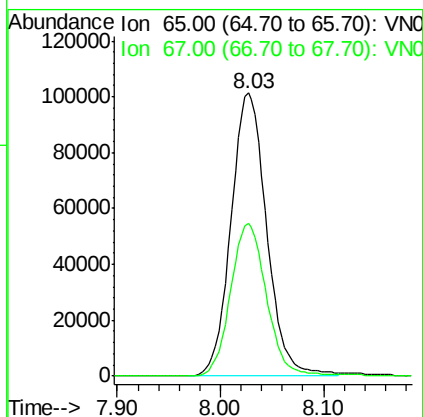
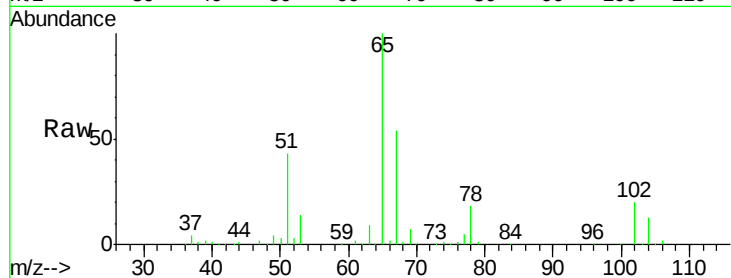
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 65 Resp: 244206

Ion Ratio Lower Upper

65 100

67 54.2 44.6 66.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

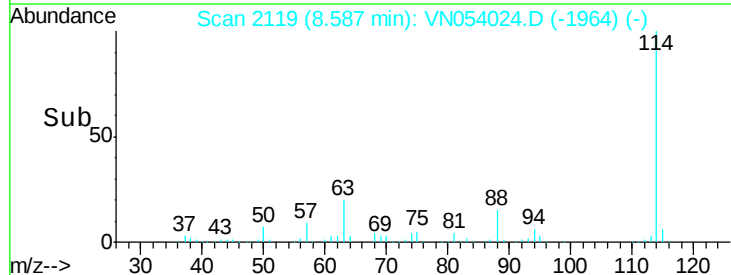
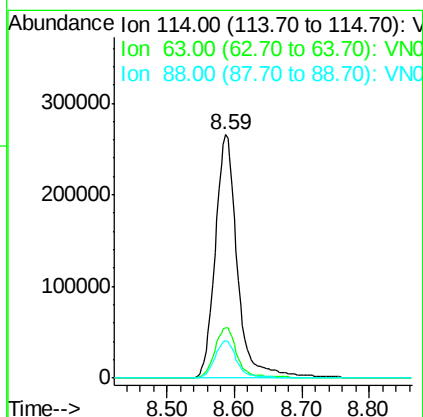
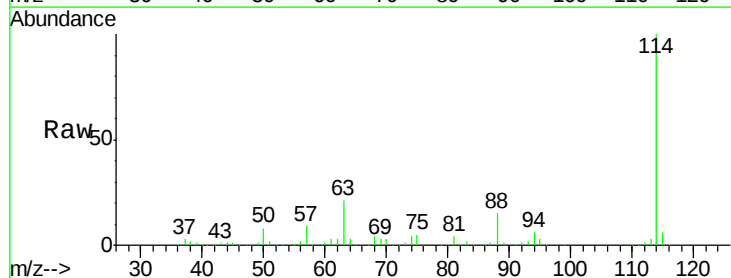
Tgt Ion: 114 Resp: 612364

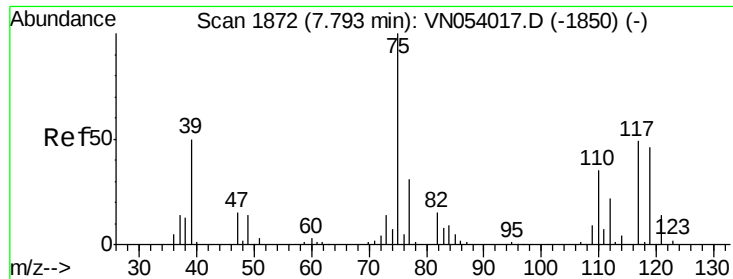
Ion Ratio Lower Upper

114 100

63 21.0 16.9 25.3

88 15.1 12.8 19.2

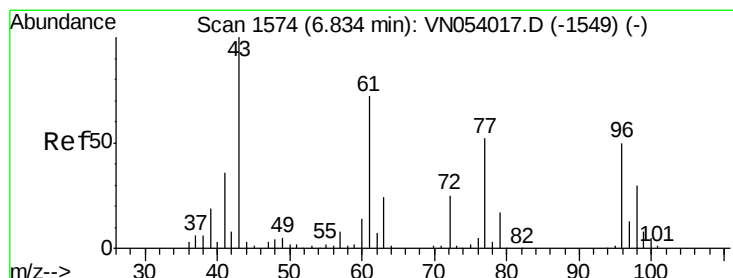
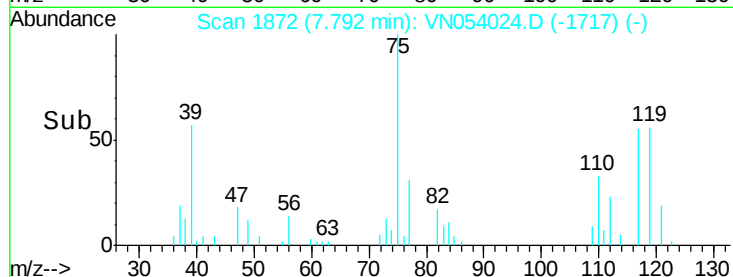
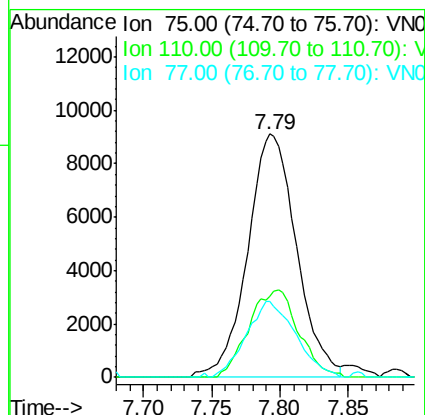
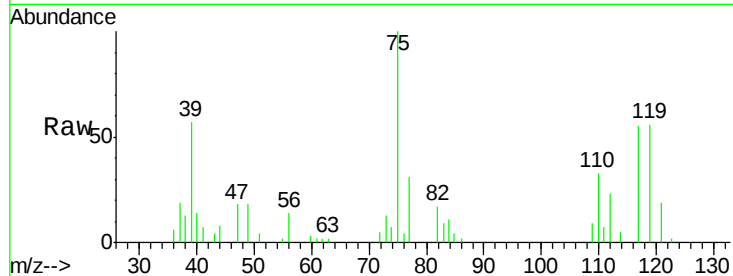




#29  
 1,1-Dichloropropene  
 Concen: 2.358 ug/l  
 RT: 7.79 min Scan# 1872  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

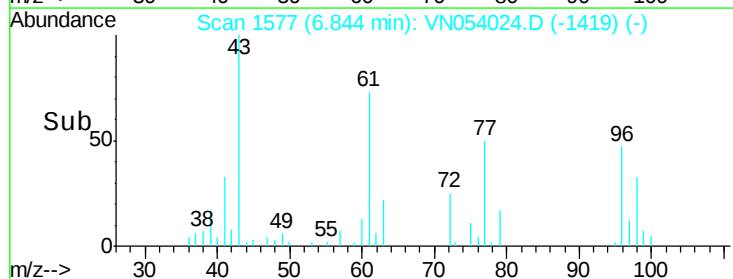
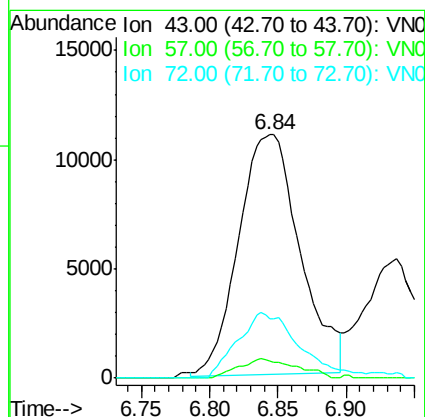
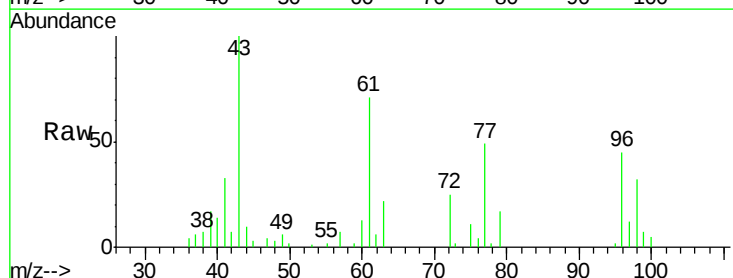
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

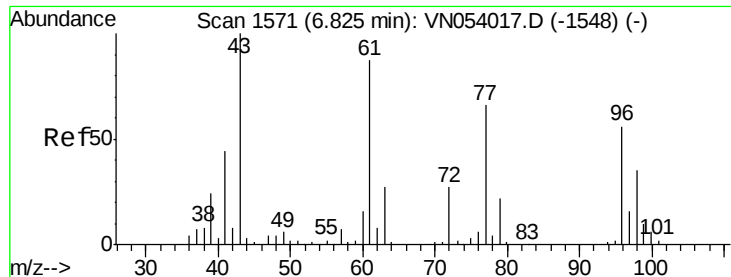
Tot Ion: 75 Resp: 22616  
 Ion Ratio Lower Upper  
 75 100  
 110 36.8 0.0 70.2  
 77 31.8 0.0 62.6



#30  
 2-Butanone  
 Concen: 11.402 ug/l  
 RT: 6.84 min Scan# 1577  
 Delta R.T. 0.01 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion: 43 Resp: 34532  
 Ion Ratio Lower Upper  
 43 100  
 57 6.9 6.2 9.4  
 72 14.3 21.0 31.6#

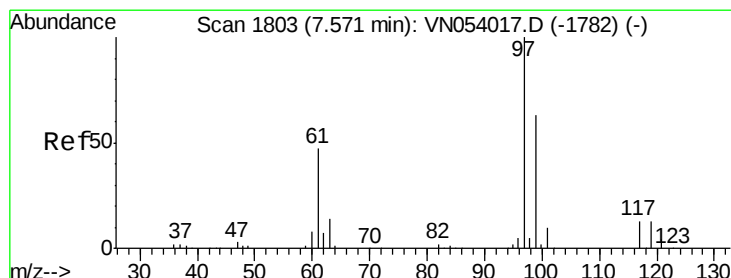
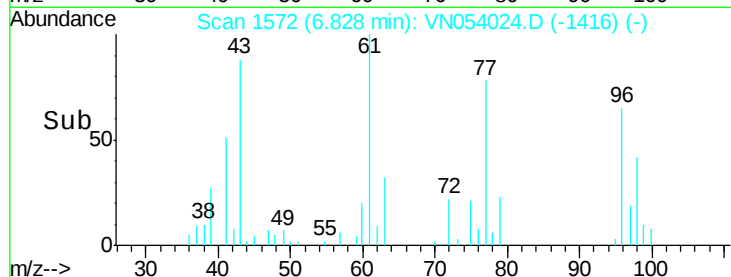
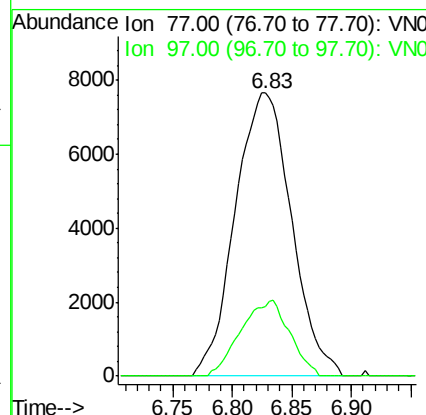
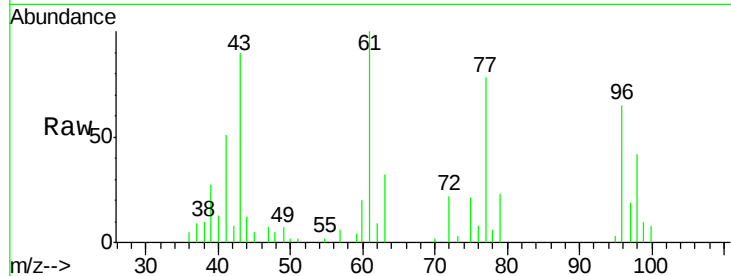




#31  
 2,2-Dichloropropane  
 Concen: 2.652 ug/l  
 RT: 6.83 min Scan# 1572  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

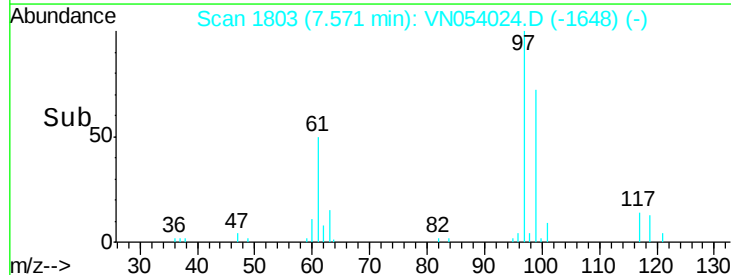
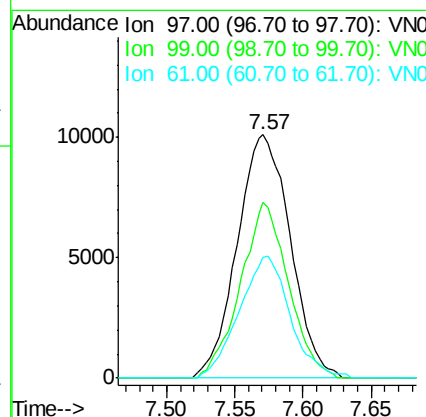
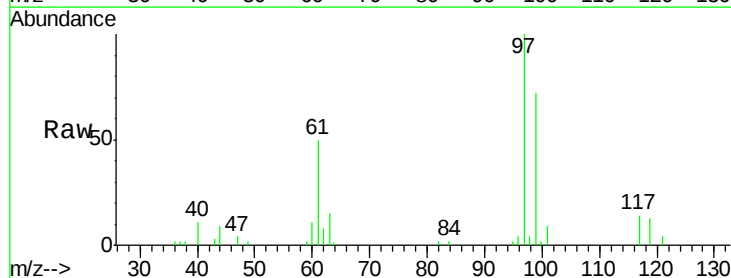
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

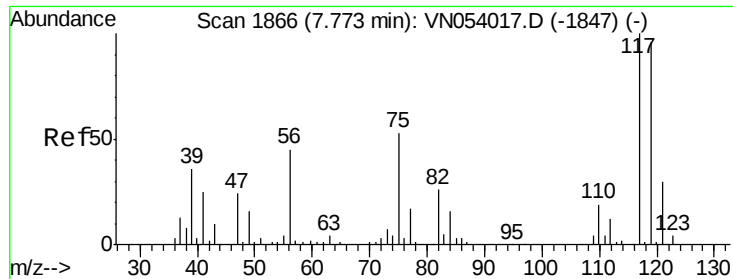
Tot Ion: 77 Resp: 25085  
 Ion Ratio Lower Upper  
 77 100  
 97 23.2 18.7 28.1



#32  
 1,1,1-Trichloroethane  
 Concen: 2.649 ug/l  
 RT: 7.57 min Scan# 1803  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion: 97 Resp: 27330  
 Ion Ratio Lower Upper  
 97 100  
 99 65.1 50.9 76.3  
 61 47.9 38.1 57.1

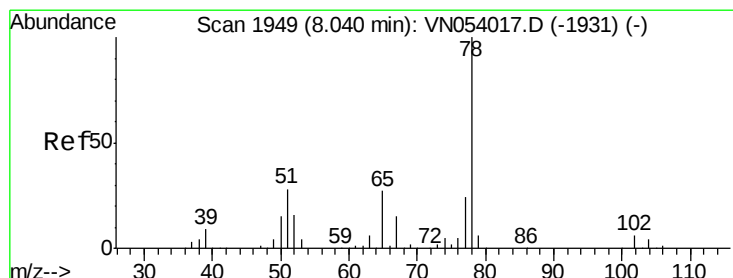
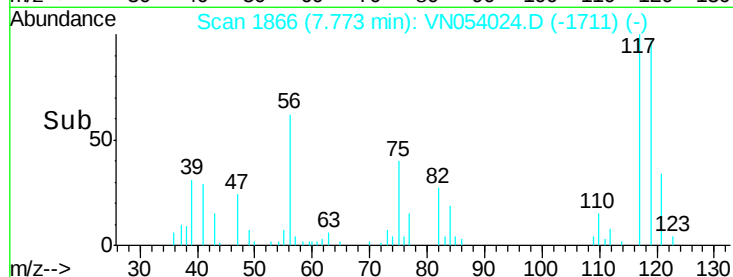
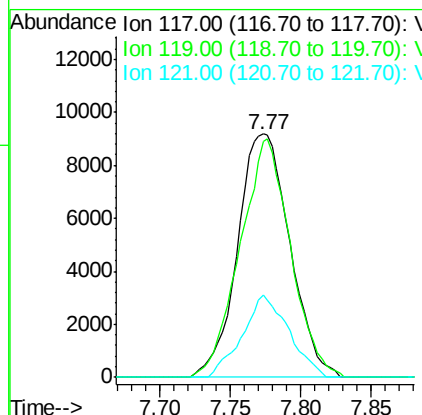
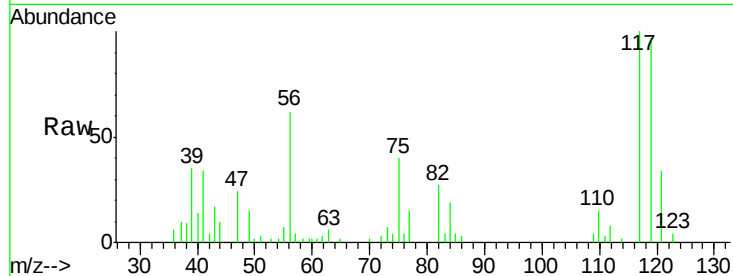




#33  
Carbon Tetrachloride  
Concen: 2.604 ug/l  
RT: 7.77 min Scan# 1866  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

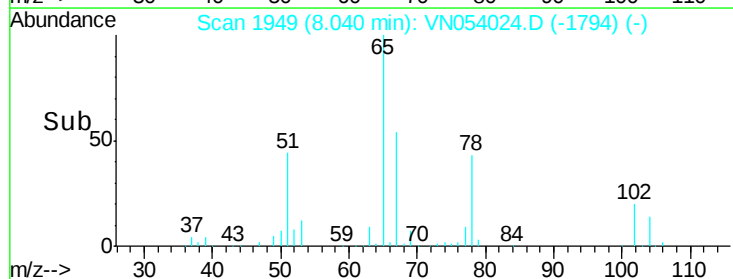
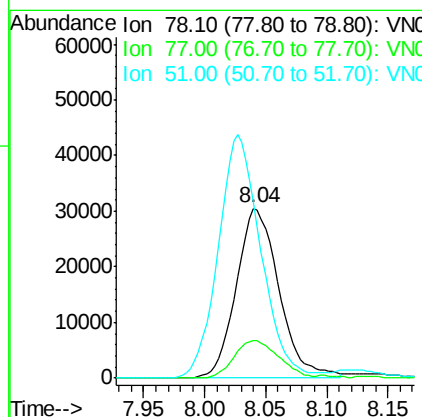
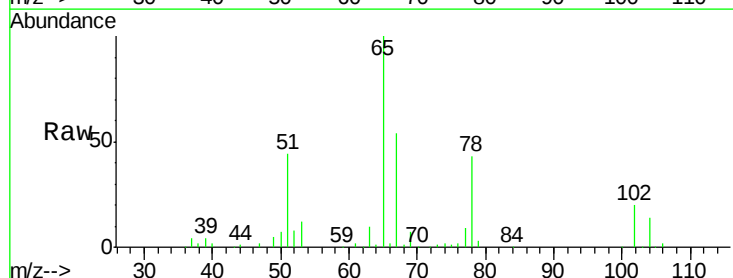
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

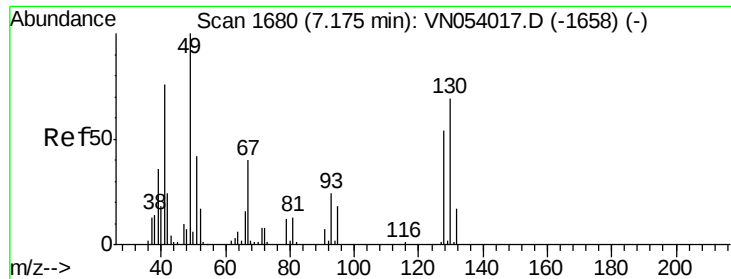
Tot Ion:117 Resp: 23783  
Ion Ratio Lower Upper  
117 100  
119 97.1 77.3 115.9  
121 33.8 24.9 37.3



#34  
Benzene  
Concen: 2.600 ug/l  
RT: 8.04 min Scan# 1949  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 78 Resp: 74124  
Ion Ratio Lower Upper  
78 100  
77 22.3 19.0 28.6  
51 99.6 20.5 30.7#

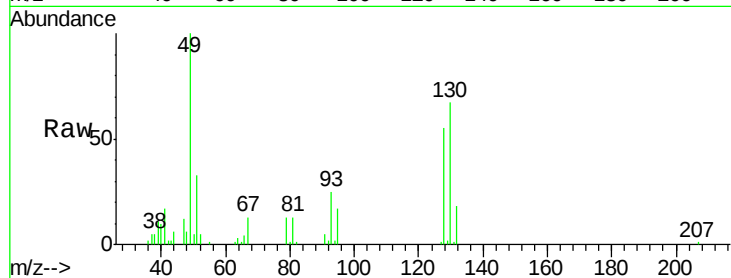




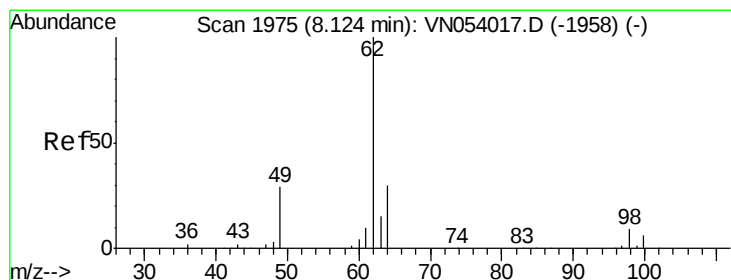
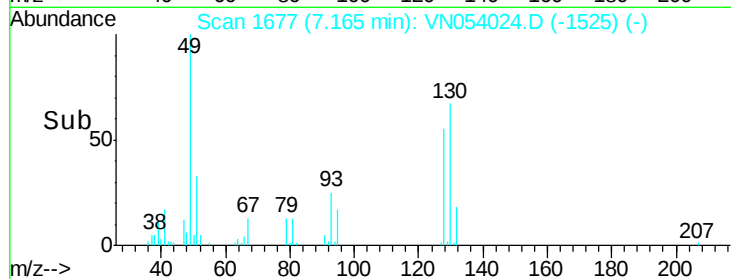
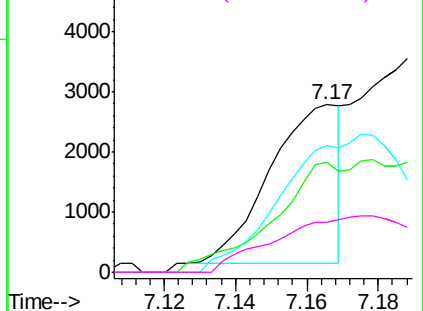
#35  
Methacrylonitrile  
Concen: 1.059 ug/l  
RT: 7.17 min Scan# 1677  
Delta R.T. -0.01 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 41 Resp: 3586  
Ion Ratio Lower Upper  
41 100  
39 62.8 26.6 79.7  
67 79.7 32.3 96.9  
52 31.8 13.0 38.9

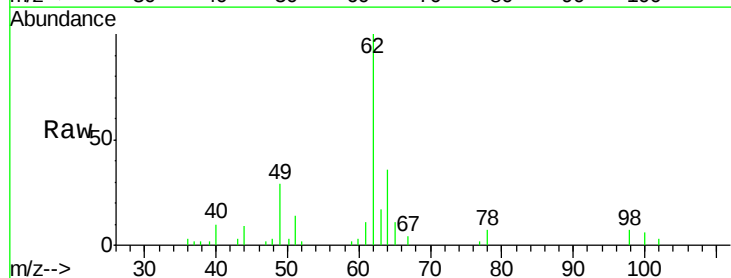


Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO  
Ion 67.00 (66.70 to 67.70): VNO  
Ion 52.00 (51.70 to 52.70): VNO

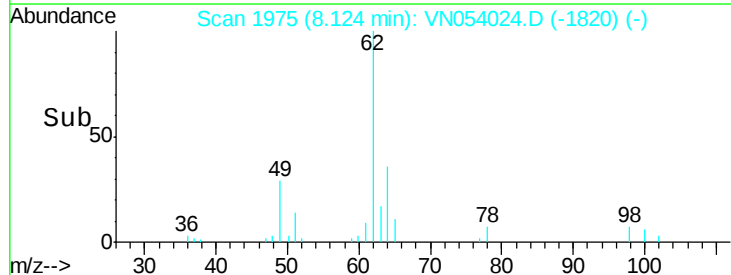
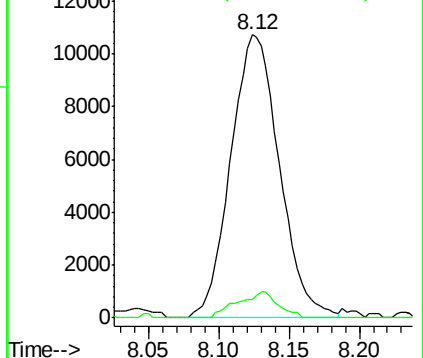


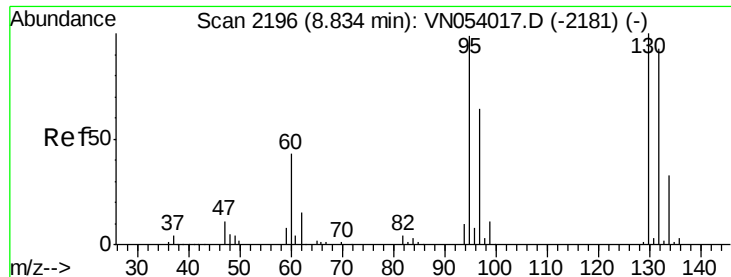
#36  
1,2-Dichloroethane  
Concen: 2.823 ug/l  
RT: 8.12 min Scan# 1975  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 62 Resp: 25837  
Ion Ratio Lower Upper  
62 100  
98 7.8 7.4 11.2



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





#37

Trichloroethene

Concen: 2.674 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

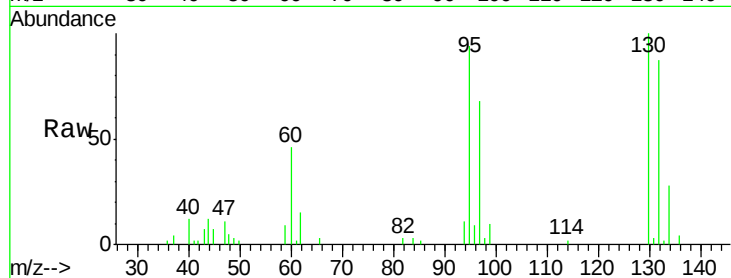
LOD-MDL-WATER-01-QT1-2019

Tot Ion:130 Resp: 19895

Ion Ratio Lower Upper

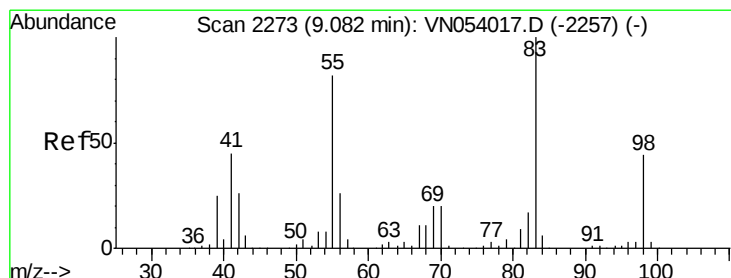
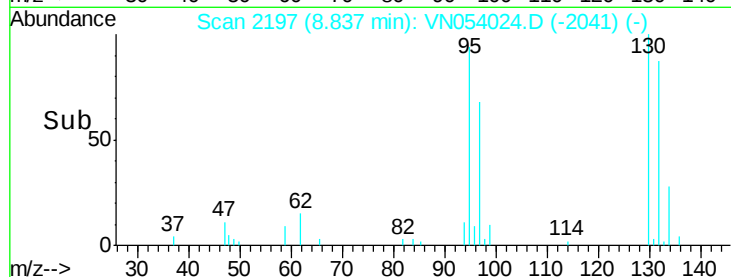
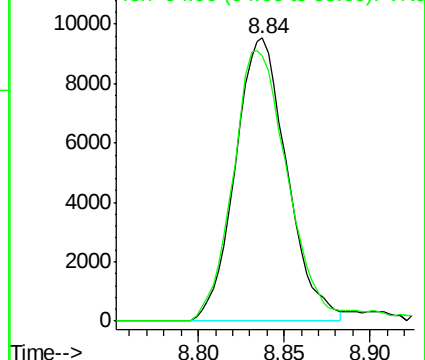
130 100

95 93.7 81.0 121.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 2.426 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

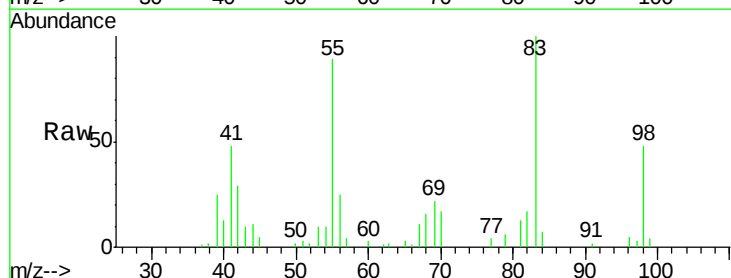
Tgt Ion: 83 Resp: 27461

Ion Ratio Lower Upper

83 100

55 85.2 39.8 119.4

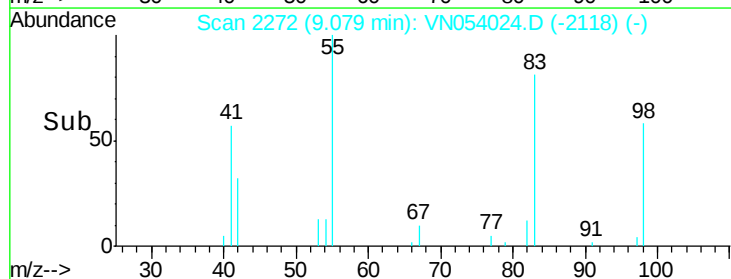
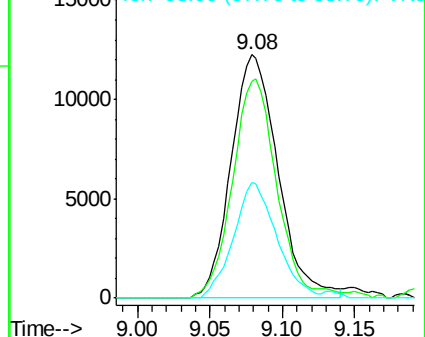
98 43.7 22.9 68.5

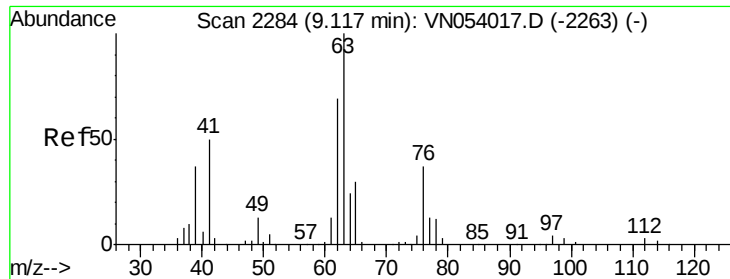


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

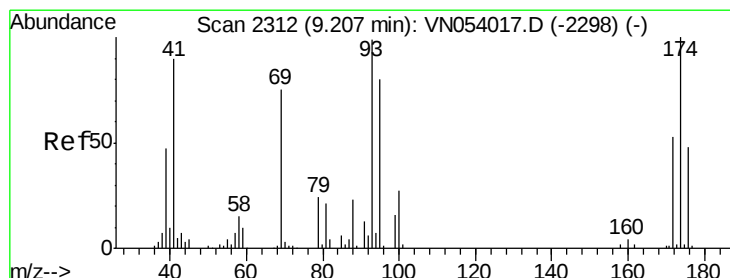
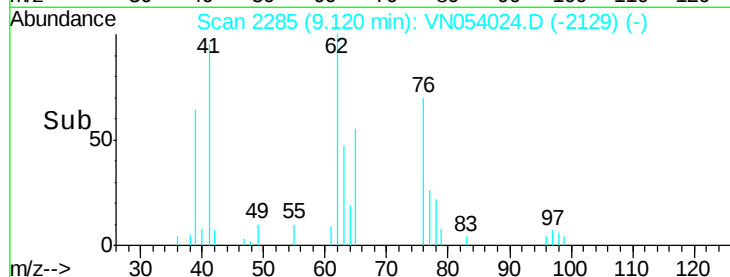
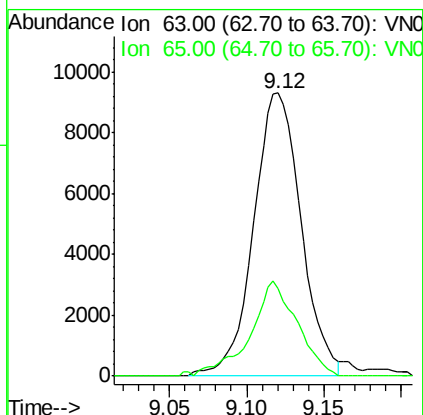
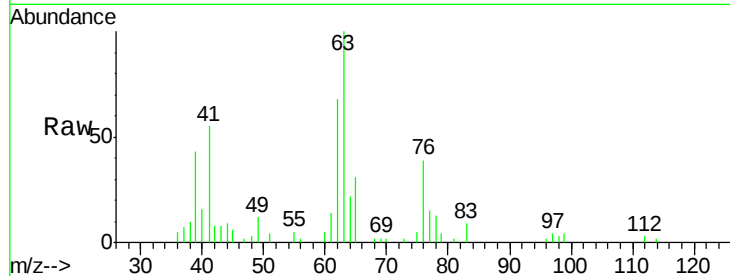




#39  
 1,2-Dichloropropane  
 Concen: 2.552 ug/l  
 RT: 9.12 min Scan# 2285  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

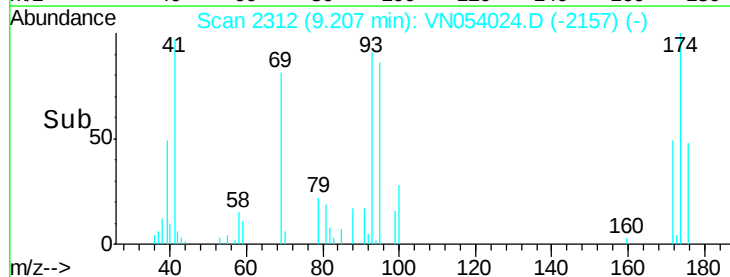
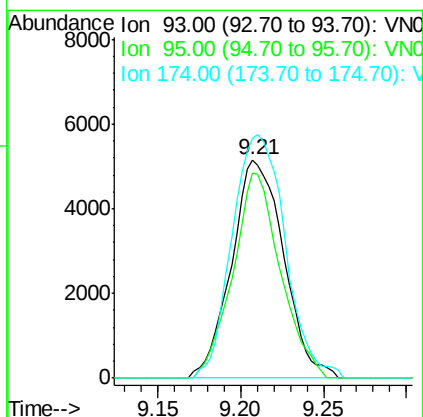
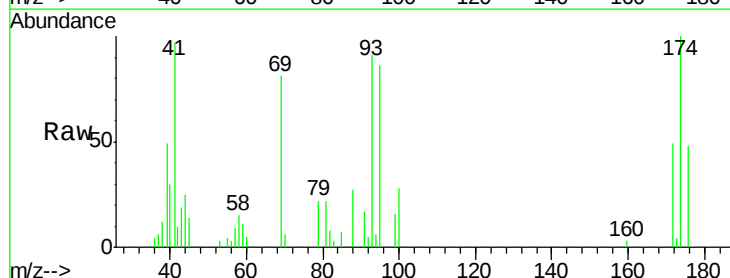
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

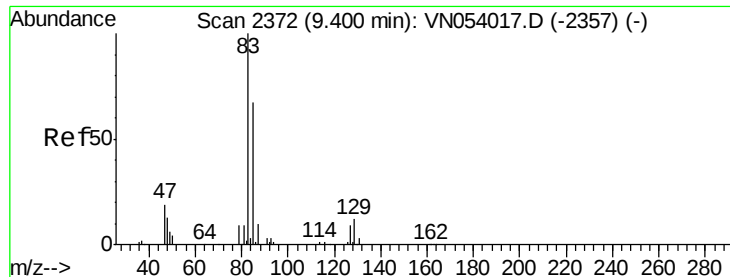
Tot Ion: 63 Resp: 19929  
 Ion Ratio Lower Upper  
 63 100  
 65 31.1 23.6 35.4



#40  
 Dibromomethane  
 Concen: 2.515 ug/l  
 RT: 9.21 min Scan# 2312  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion: 93 Resp: 11261  
 Ion Ratio Lower Upper  
 93 100  
 95 85.7 0.0 168.4  
 174 113.9 0.0 210.0





#41

Bromodichloromethane

Concen: 2.563 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

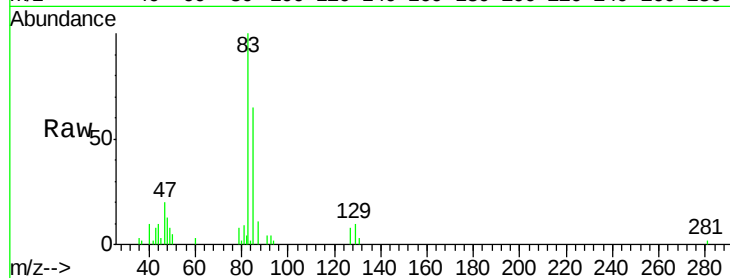
Tot Ion: 83 Resp: 24350

Ion Ratio Lower Upper

83 100

85 65.3 52.4 78.6

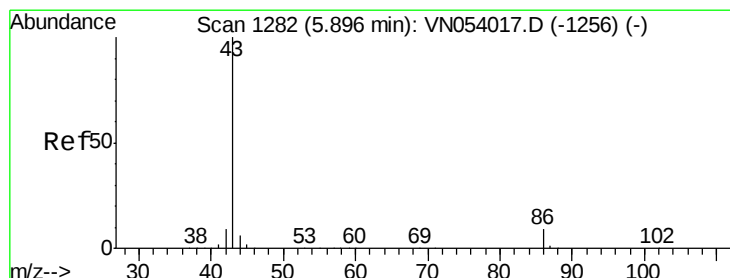
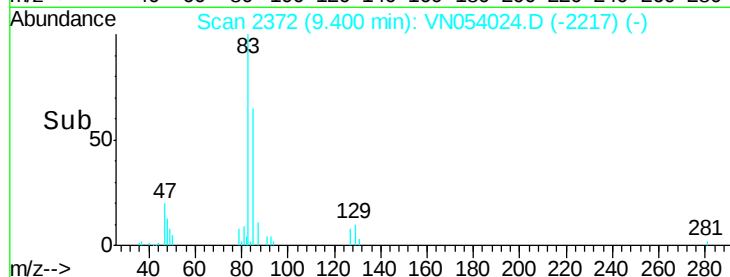
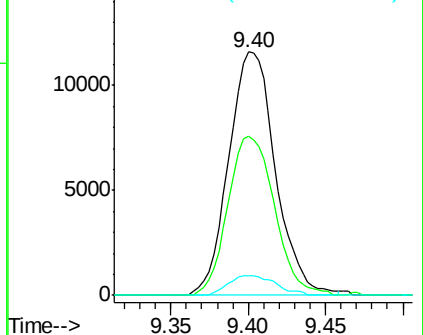
127 8.1 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 11.063 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054024.D

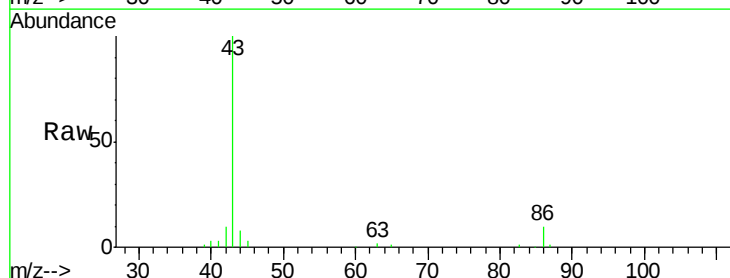
Acq: 1 Mar 2019 12:51

Tgt Ion: 43 Resp: 173092

Ion Ratio Lower Upper

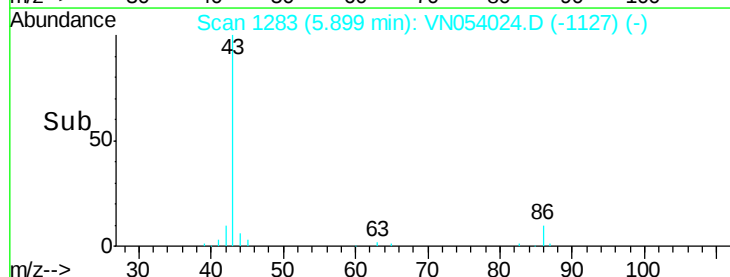
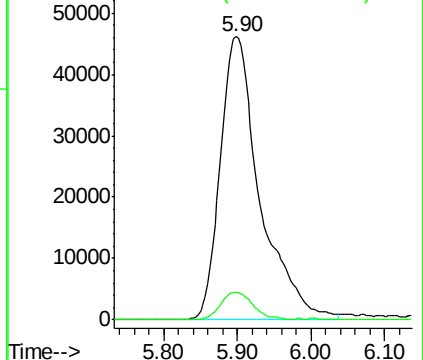
43 100

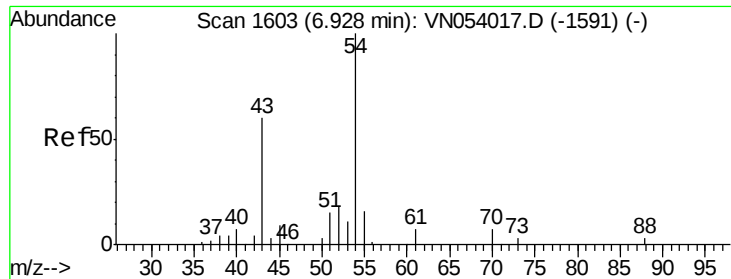
86 8.0 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#43

Ethyl Acetate

Concen: 1.825 ug/l

RT: 6.94 min Scan# 1606

Delta R.T. 0.01 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

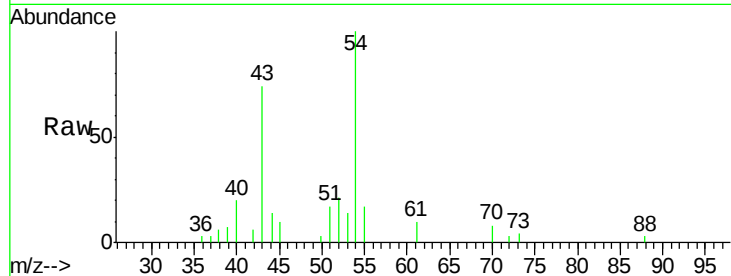
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 43 Resp: 11578

Ion Ratio Lower Upper

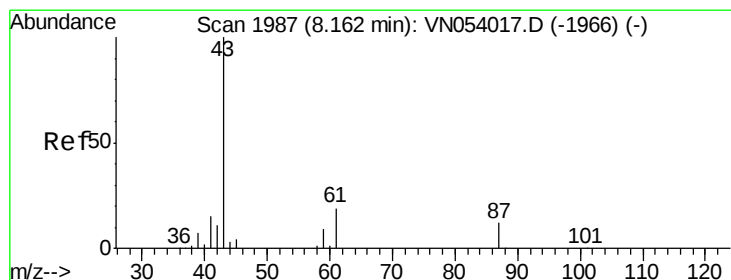
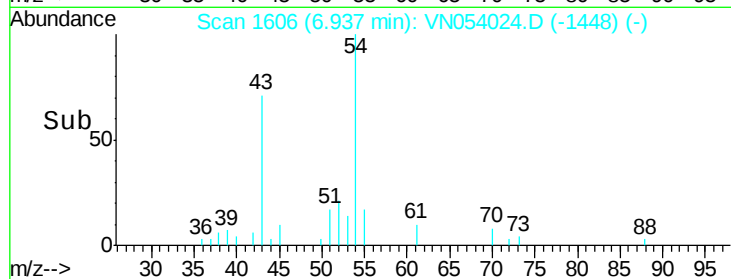
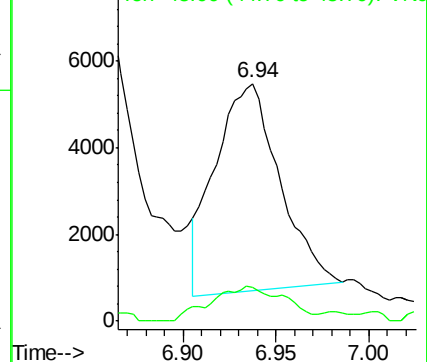
43 100

45 2.6 1.0 1.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 0.030 ug/l

RT: 8.54 min Scan# 2103

Delta R.T. 0.37 min

Lab File: VN054024.D

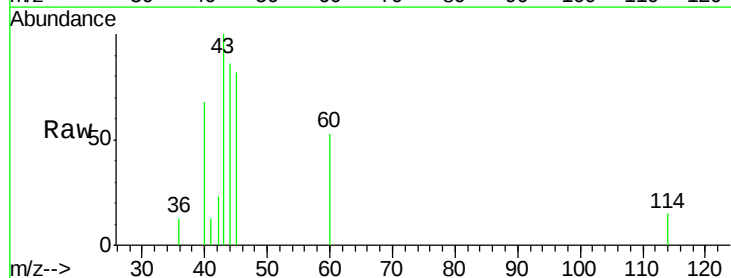
Acq: 1 Mar 2019 12:51

Tgt Ion: 43 Resp: 330

Ion Ratio Lower Upper

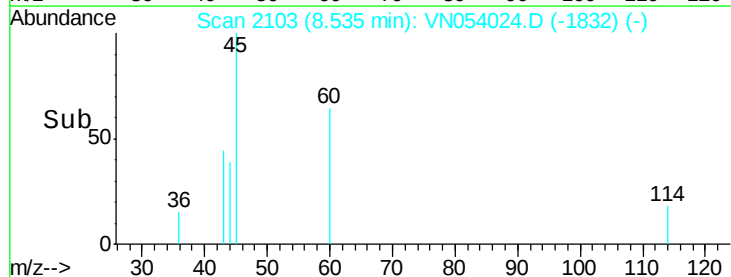
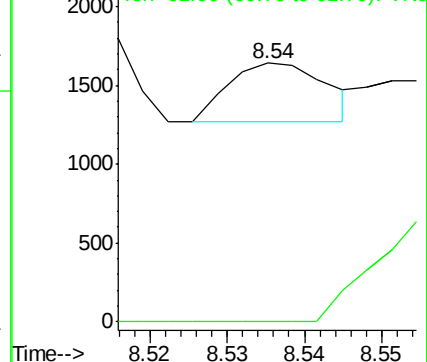
43 100

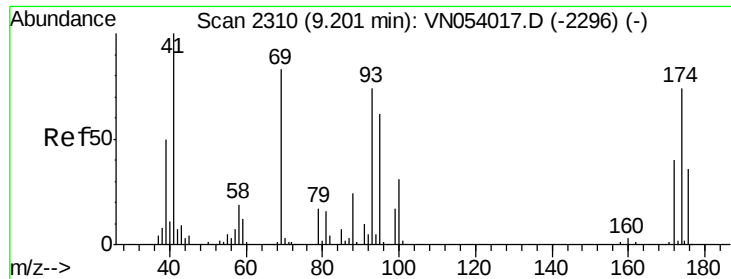
61 20.0 16.0 24.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

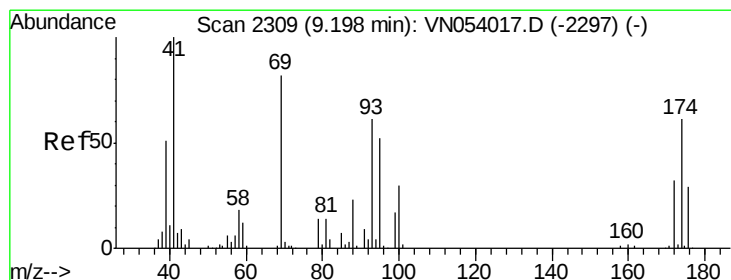
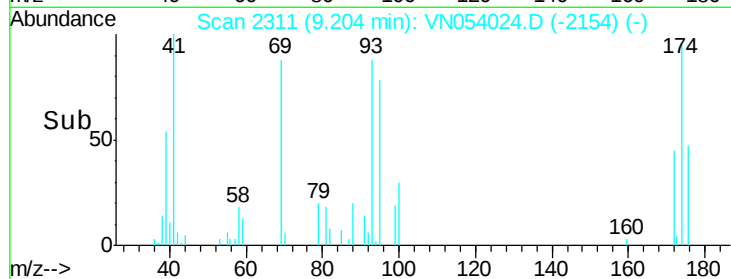
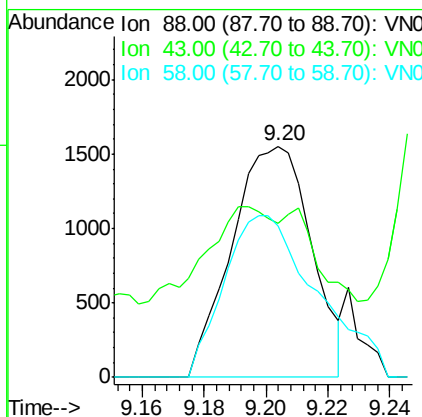
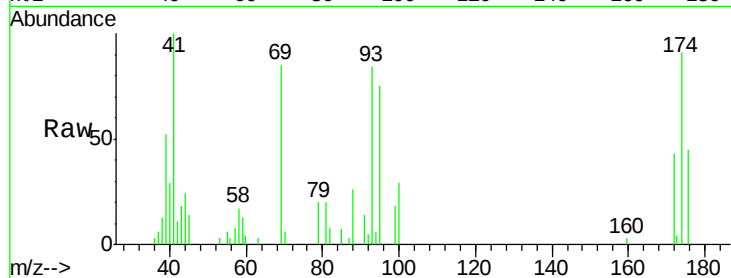




#45  
 1,4-Dioxane  
 Concen: 70.859 ug/l  
 RT: 9.20 min Scan# 2311  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

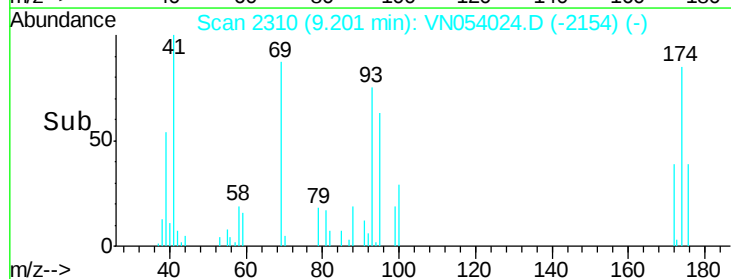
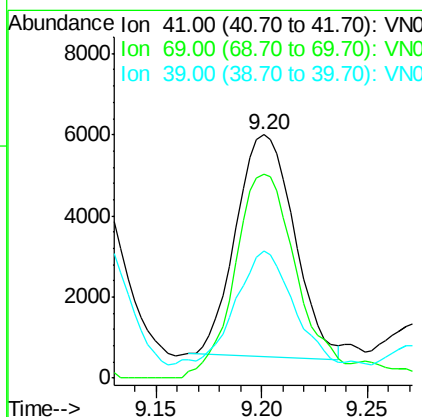
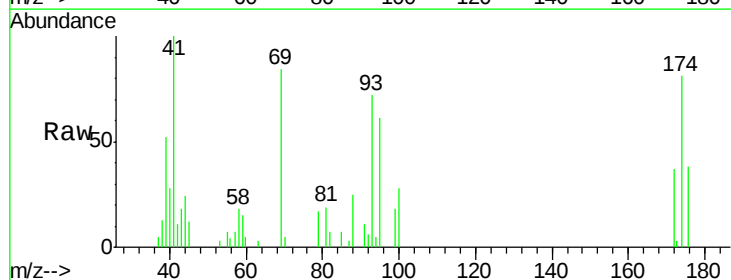
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

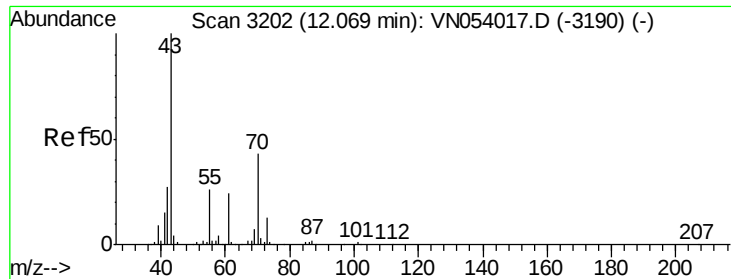
Tot Ion: 88 Resp: 2772  
 Ion Ratio Lower Upper  
 88 100  
 43 15.7 29.5 44.3#  
 58 81.9 61.5 92.3



#46  
 Methyl methacrylate  
 Concen: 1.963 ug/l  
 RT: 9.20 min Scan# 2310  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion: 41 Resp: 10497  
 Ion Ratio Lower Upper  
 41 100  
 69 90.4 42.5 127.6  
 39 50.9 26.3 78.9

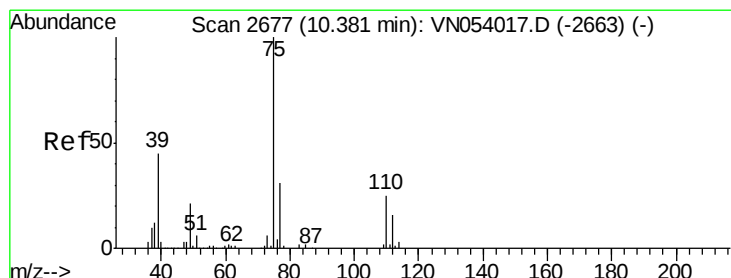
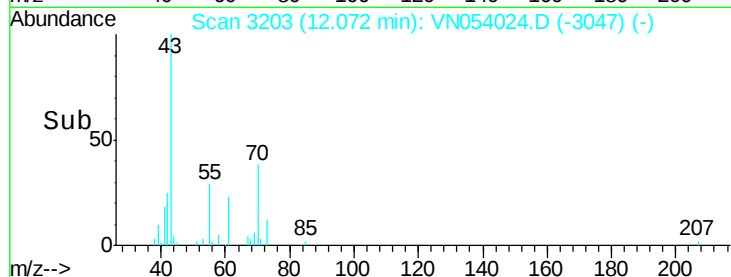
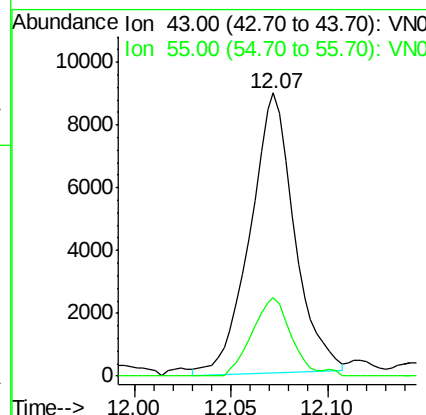
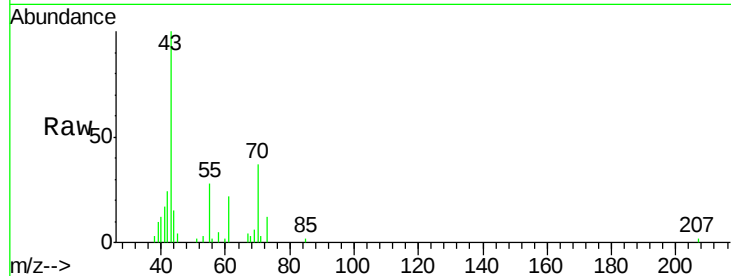




#47  
n-amvl Acetate  
Concen: 1.746 ug/l  
RT: 12.07 min Scan# 3203  
Delta R.T. 0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

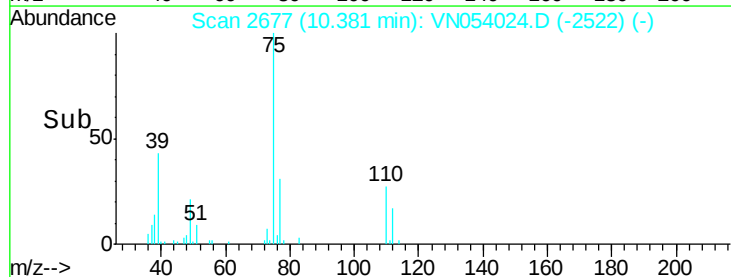
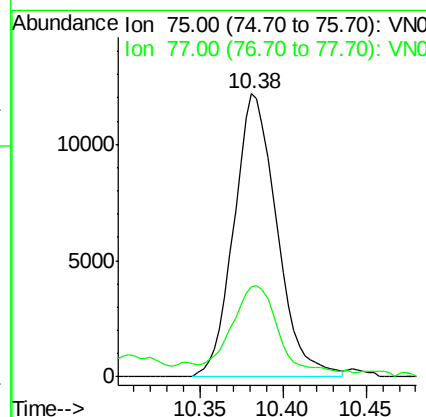
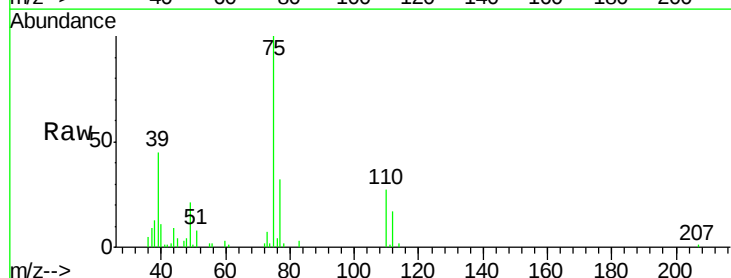
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

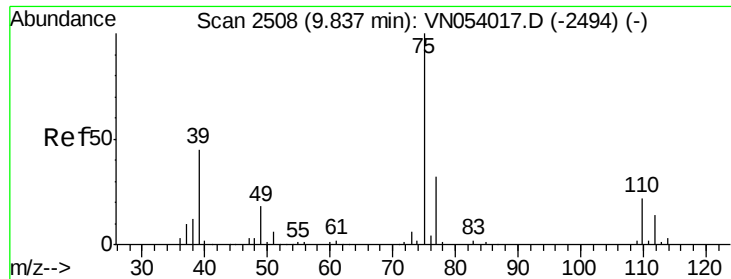
Tot Ion: 43 Resp: 14275  
Ion Ratio Lower Upper  
43 100  
55 24.6 21.1 31.7



#48  
t-1,3-Dichloropropene  
Concen: 2.307 ug/l  
RT: 10.38 min Scan# 2677  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 75 Resp: 21975  
Ion Ratio Lower Upper  
75 100  
77 29.6 25.6 38.4

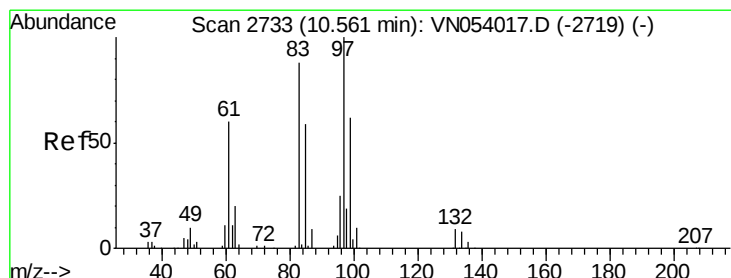
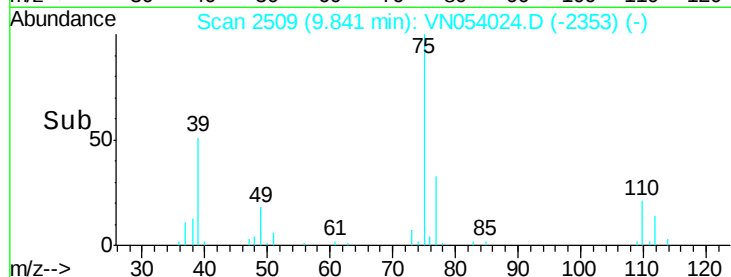
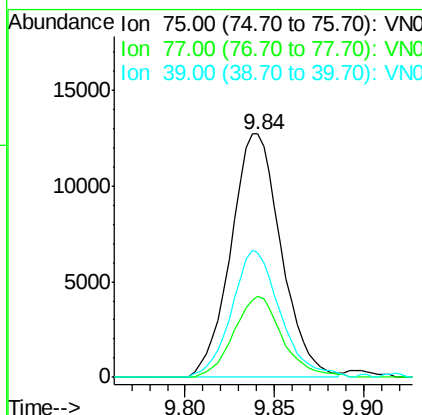
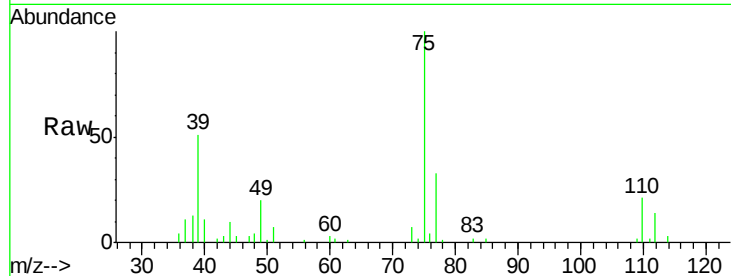




#49  
 cis-1,3-Dichloropropene  
 Concen: 2.233 ug/l  
 RT: 9.84 min Scan# 2509  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

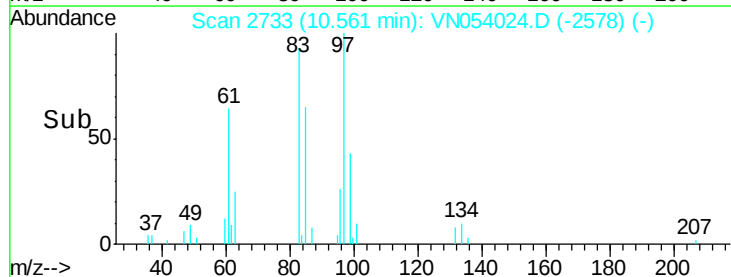
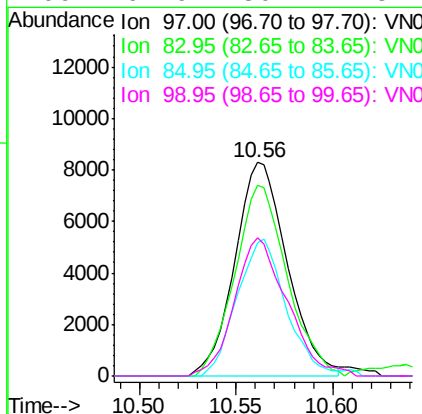
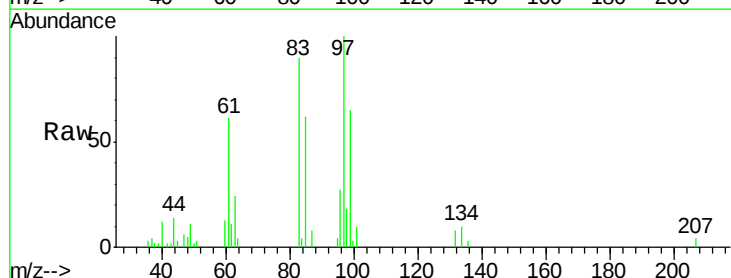
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

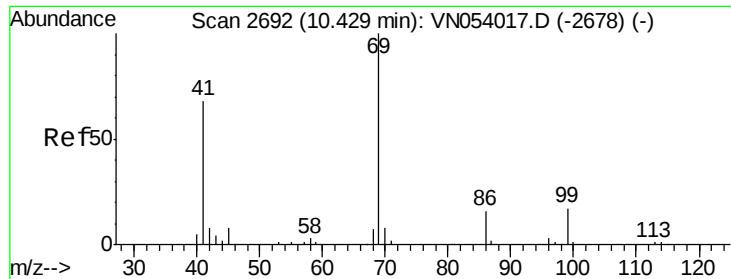
Tot Ion: 75 Resp: 24969  
 Ion Ratio Lower Upper  
 75 100  
 77 33.2 25.4 38.0  
 39 51.0 37.3 55.9



#50  
 1,1,2-Trichloroethane  
 Concen: 2.490 ug/l  
 RT: 10.56 min Scan# 2733  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion: 97 Resp: 15636  
 Ion Ratio Lower Upper  
 97 100  
 83 89.6 70.4 105.6  
 85 62.4 45.0 67.6  
 99 64.9 50.2 75.2





#51

Ethyl methacrylate

Concen: 2.057 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

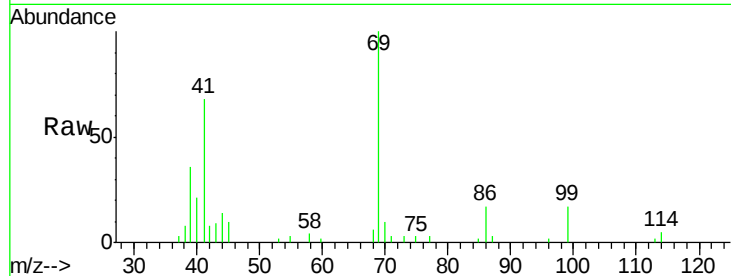
Tot Ion: 69 Resp: 15551

Ion Ratio Lower Upper

69 100

41 66.6 34.4 103.3

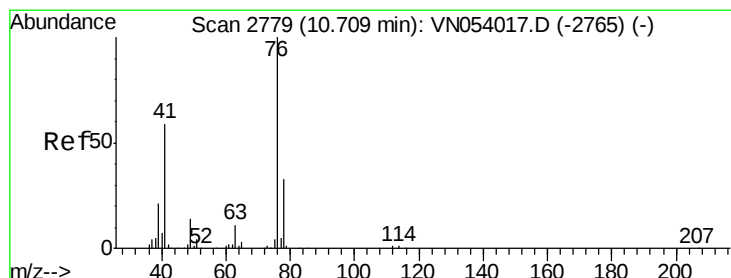
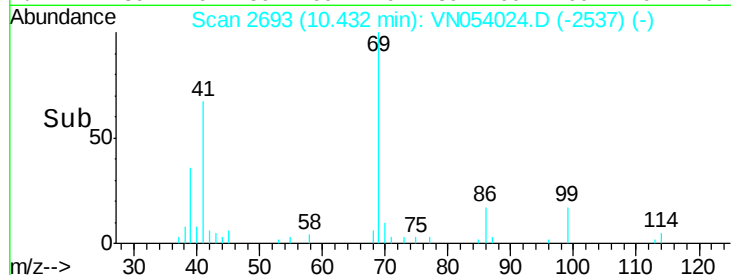
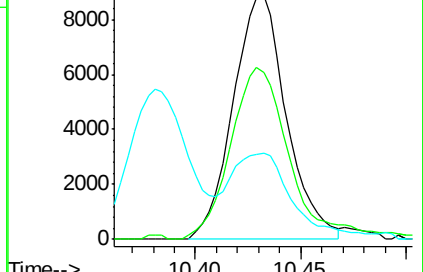
39 31.6 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN054024.D (-2537) (-)

Ion 41.00 (40.70 to 41.70): VN054024.D (-2537) (-)

Ion 39.00 (38.70 to 39.70): VN054024.D (-2537) (-)



#52

1,3-Dichloropropane

Concen: 2.627 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN054024.D

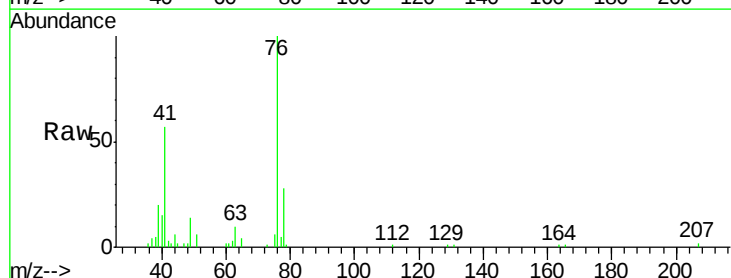
Acq: 1 Mar 2019 12:51

Tgt Ion: 76 Resp: 28316

Ion Ratio Lower Upper

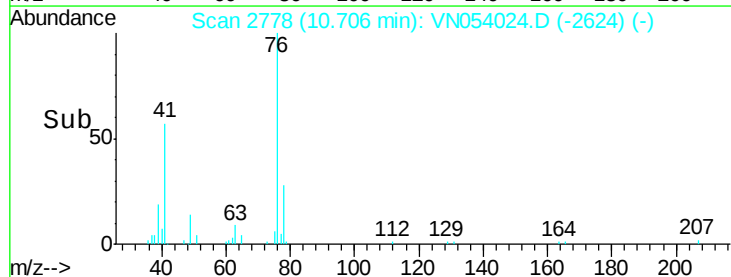
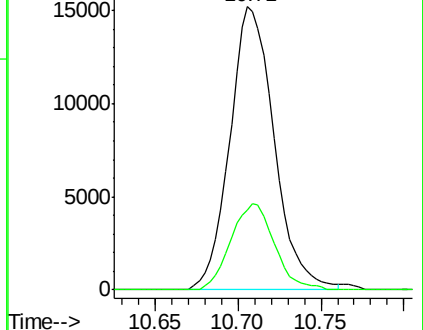
76 100

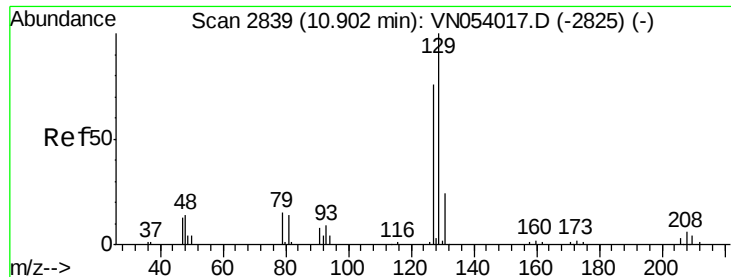
78 29.9 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN054024.D (-2624) (-)

Ion 78.00 (77.70 to 78.70): VN054024.D (-2624) (-)

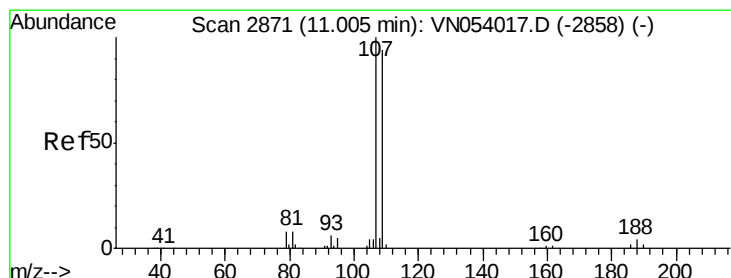
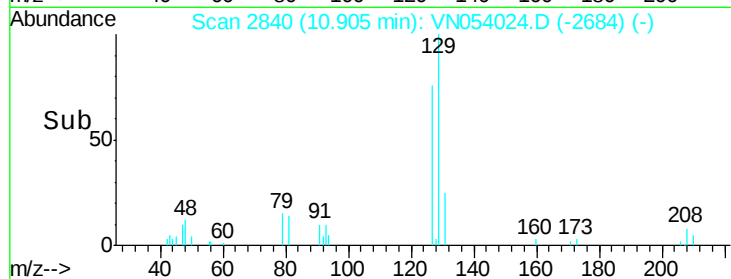
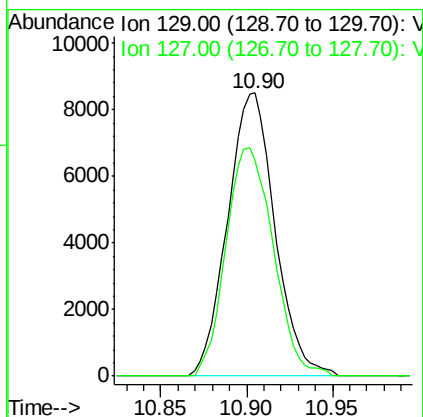
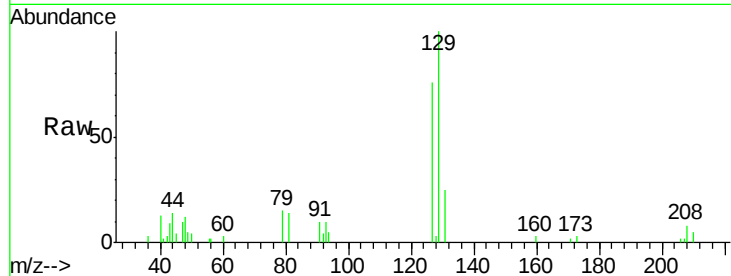




#53  
 Dibromochloromethane  
 Concen: 2.371 ug/l  
 RT: 10.90 min Scan# 2840  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

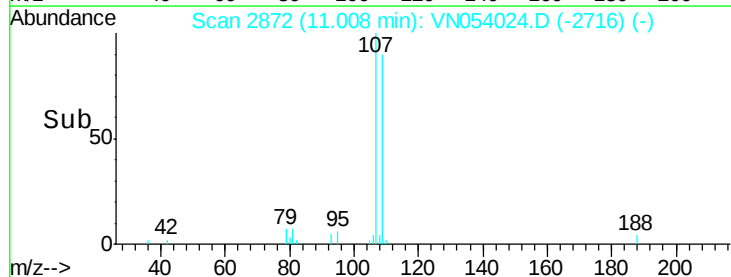
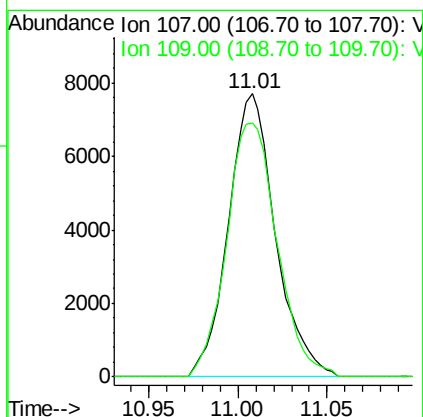
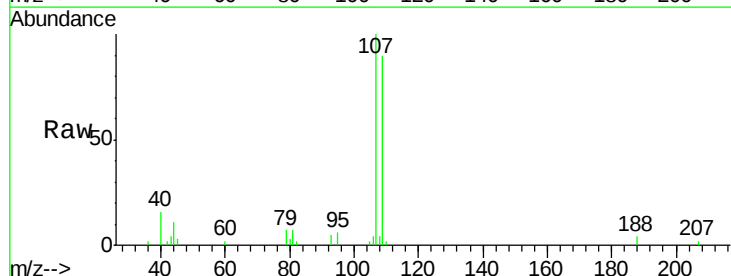
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

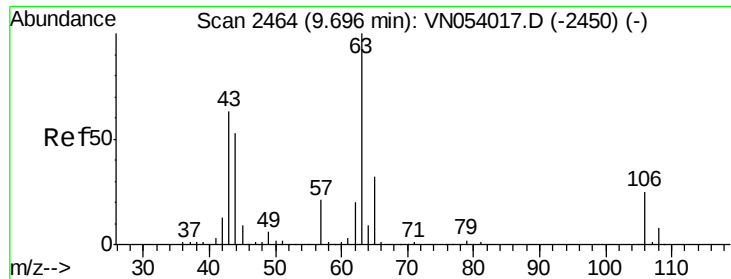
Tot Ion:129 Resp: 16360  
 Ion Ratio Lower Upper  
 129 100  
 127 80.7 37.6 112.8



#54  
 1,2-Dibromoethane  
 Concen: 2.374 ug/l  
 RT: 11.01 min Scan# 2872  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion:107 Resp: 14199  
 Ion Ratio Lower Upper  
 107 100  
 109 96.1 77.1 115.7

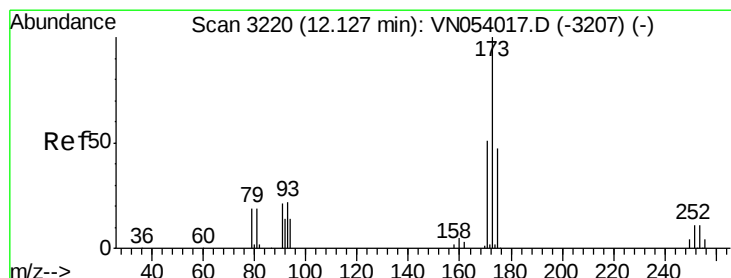
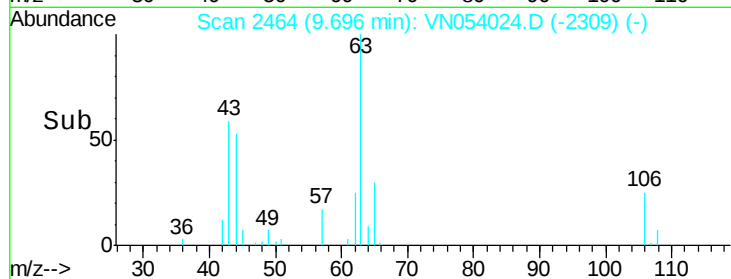
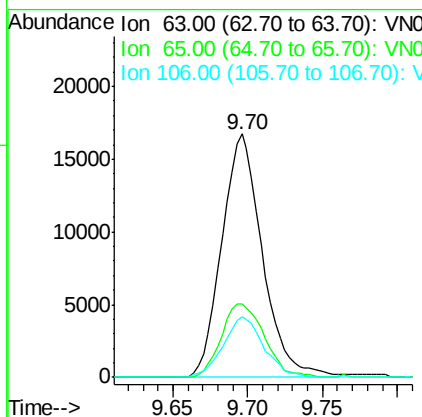
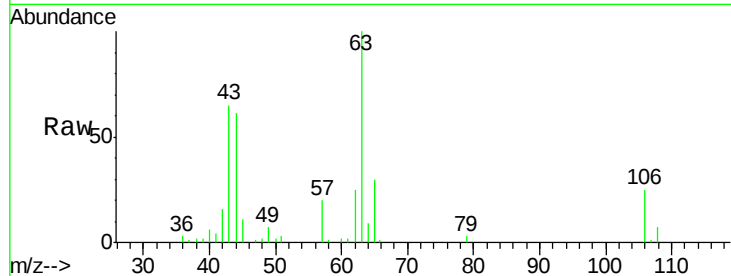




#55  
2-Chloroethyl vinyl ether  
Concen: 8.998 ug/l  
RT: 9.70 min Scan# 2464  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

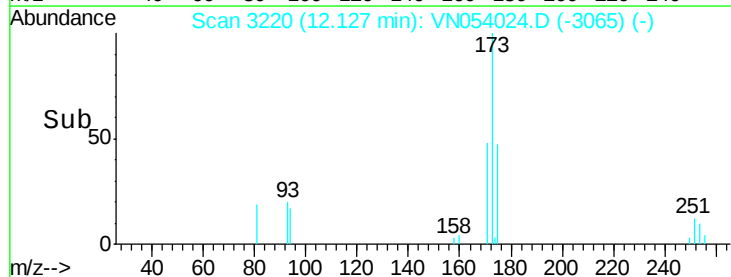
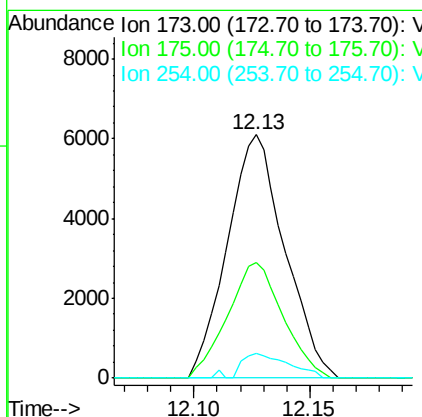
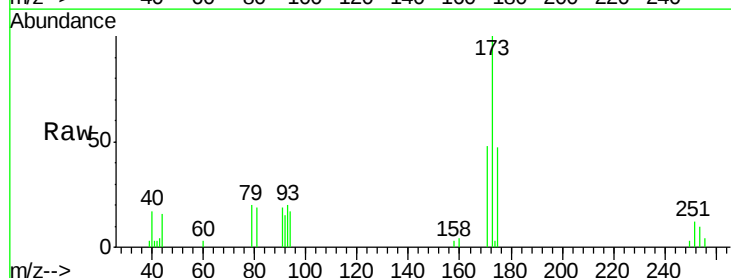
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

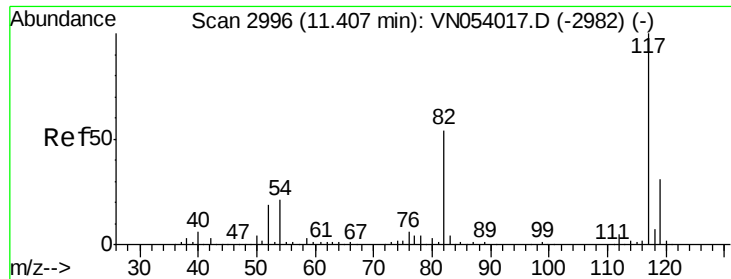
Tot Ion: 63 Resp: 31569  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.4 38.2  
106 24.8 20.4 30.6



#56  
Bromoform  
Concen: 2.282 ug/l  
RT: 12.13 min Scan# 3220  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 173 Resp: 10454  
Ion Ratio Lower Upper  
173 100  
175 46.0 38.7 58.1  
254 8.1 8.4 12.6#

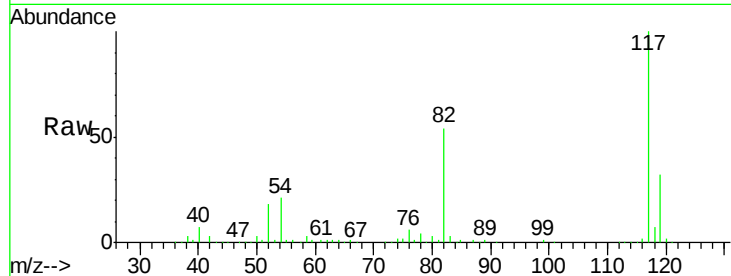




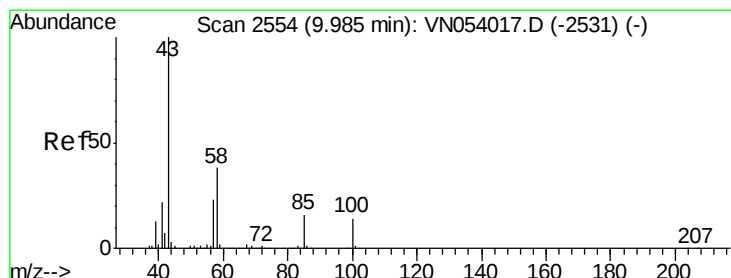
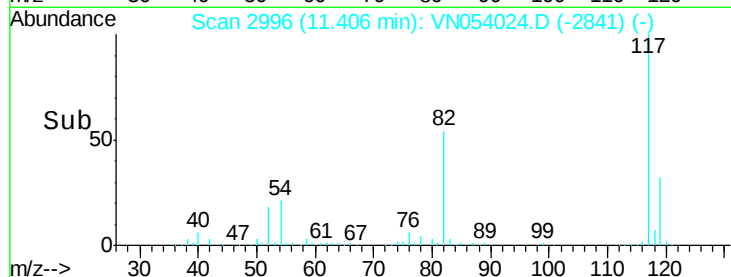
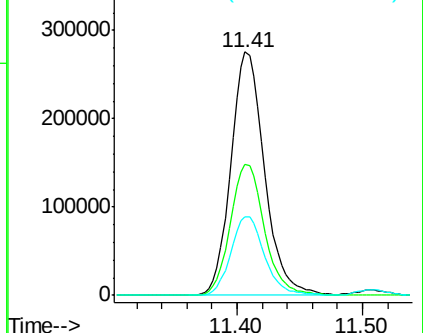
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

Tot Ion:117 Resp: 513168  
Ion Ratio Lower Upper  
117 100  
82 54.7 44.2 66.2  
119 32.3 25.4 38.2

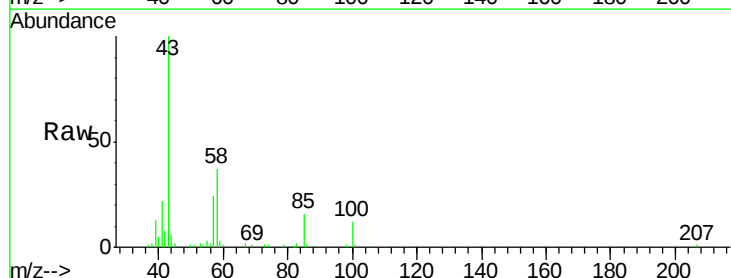


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V

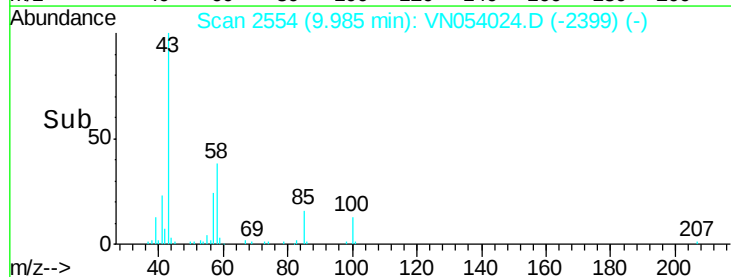
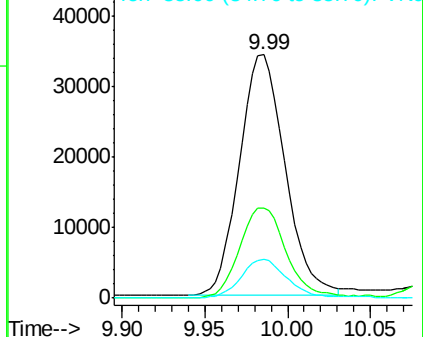


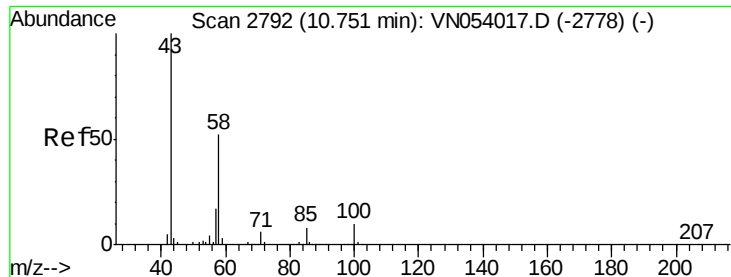
#58  
4-Methyl-2-Pentanone  
Concen: 11.254 ug/l  
RT: 9.99 min Scan# 2554  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 43 Resp: 65074  
Ion Ratio Lower Upper  
43 100  
58 38.8 31.6 47.4  
85 16.4 13.3 19.9



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





#59

2-Hexanone

Concen: 10.771 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

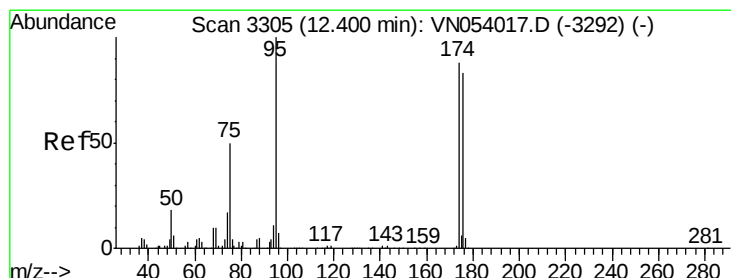
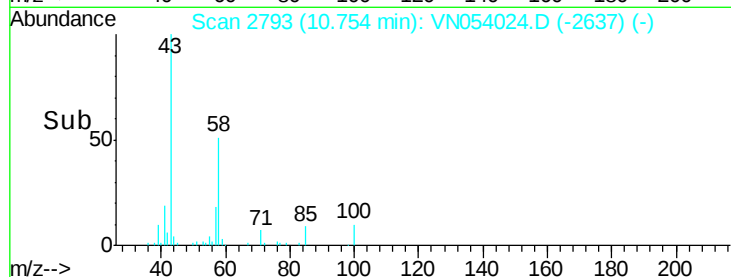
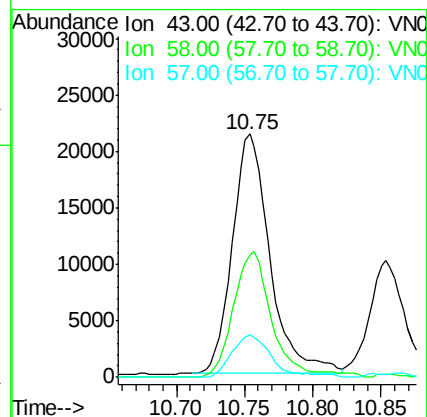
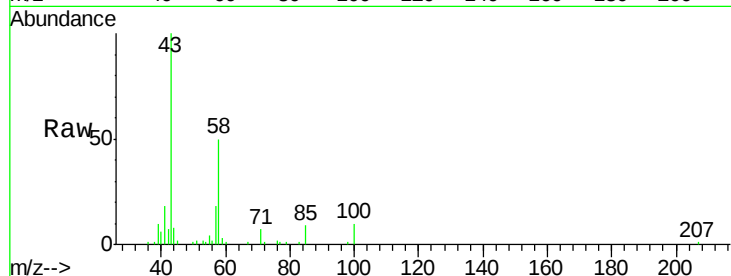
Tot Ion: 43 Resp: 40691

Ion Ratio Lower Upper

43 100

58 51.7 43.2 64.8

57 17.7 14.9 22.3



#60

4-Bromofluorobenzene

Concen: 10.771 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

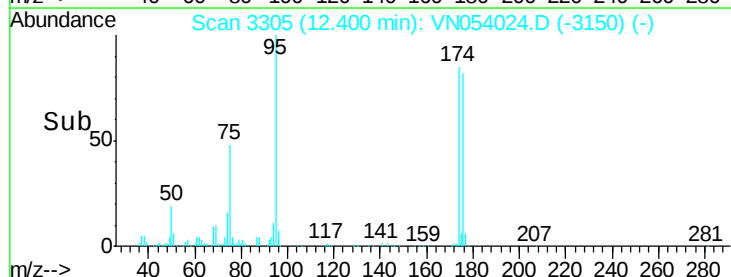
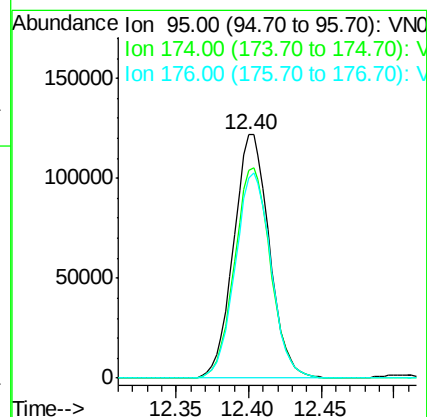
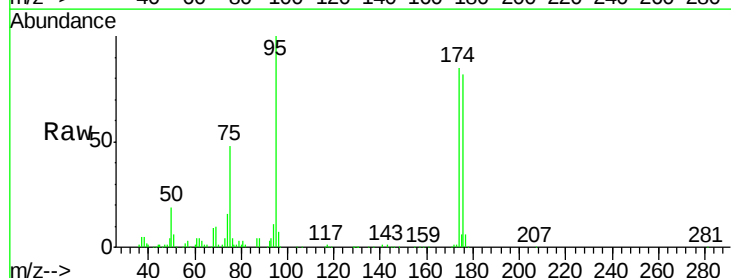
Tgt Ion: 95 Resp: 208833

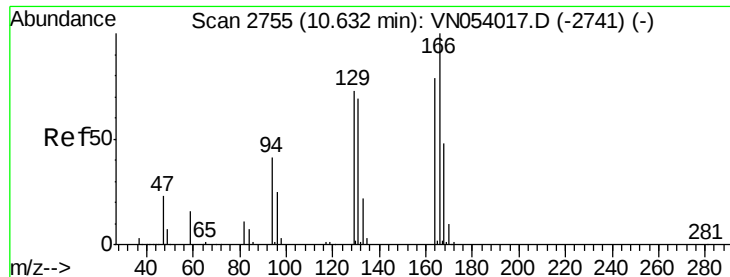
Ion Ratio Lower Upper

95 100

174 86.6 67.9 101.9

176 84.3 66.4 99.6





#61

Tetrachloroethene

Concen: 2.610 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:164 Resp: 18619

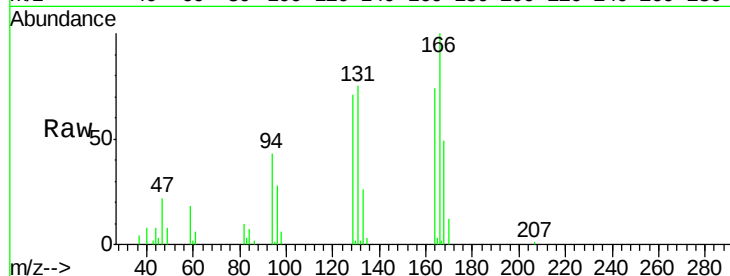
Ion Ratio Lower Upper

164 100

166 133.3 104.6 157.0

129 95.8 75.3 112.9

131 101.6 74.3 111.5

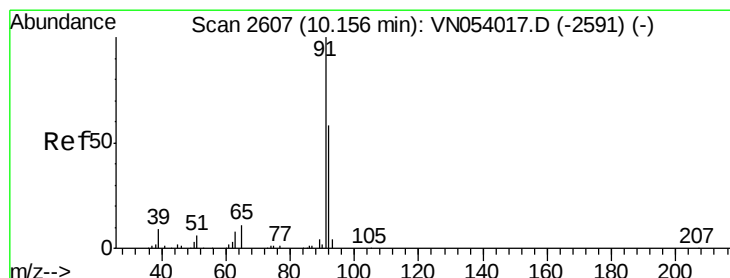
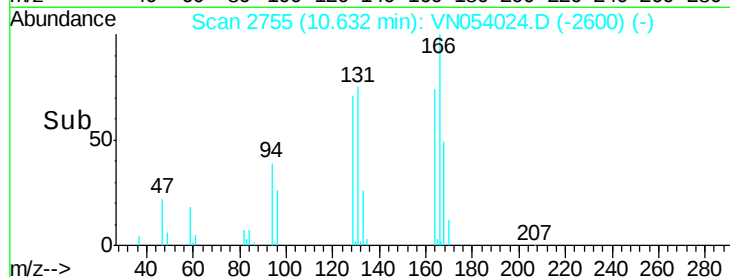
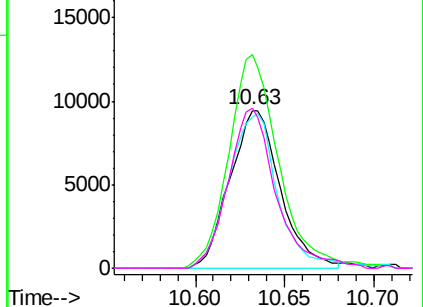


Abundance Ion 163.85 (163.55 to 164.55): V

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: 2.693 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054024.D

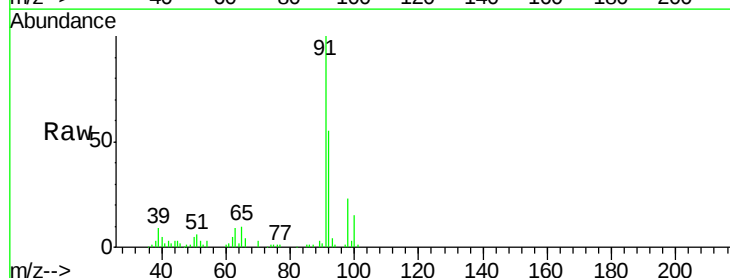
Acq: 1 Mar 2019 12:51

Tgt Ion: 91 Resp: 77237

Ion Ratio Lower Upper

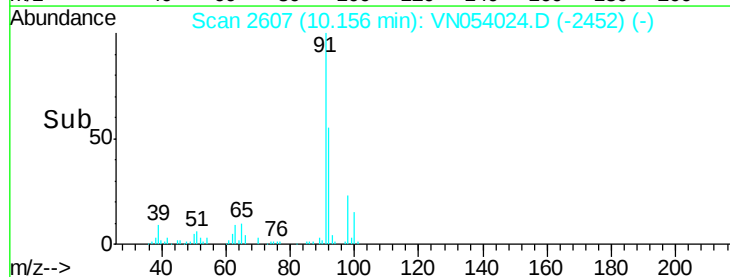
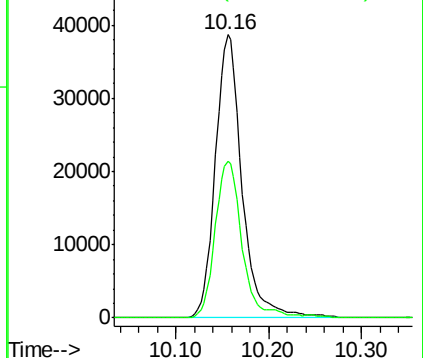
91 100

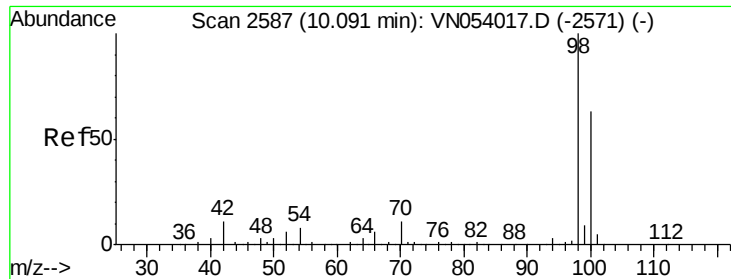
92 53.9 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 2.693 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

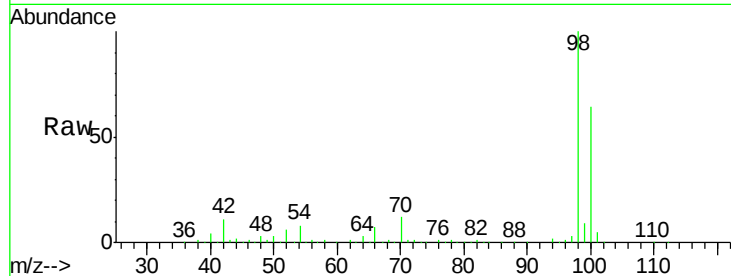
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 98 Resp: 751423

Ion Ratio Lower Upper

98 100

100 62.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

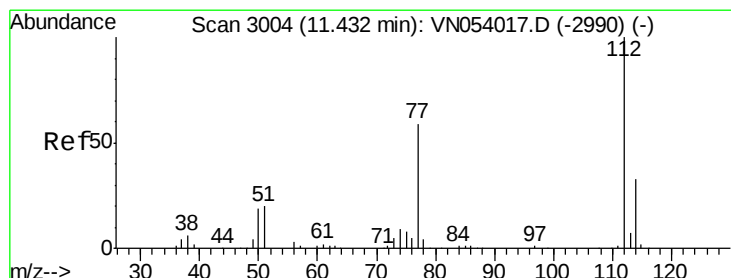
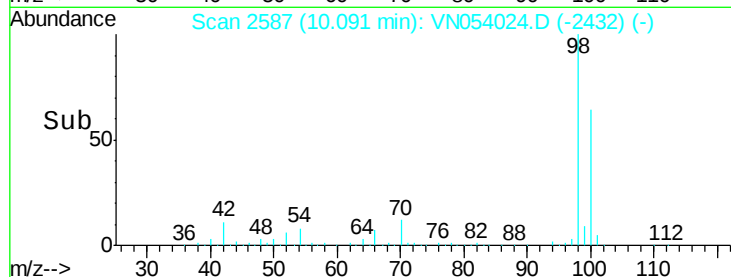
300000

200000

100000

0

Time-->



#64

Chlorobenzene

Concen: 2.524 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN054024.D

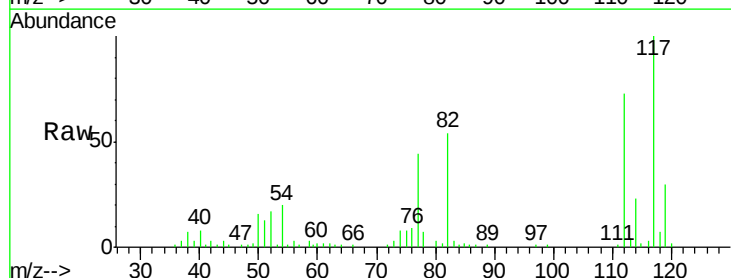
Acq: 1 Mar 2019 12:51

Tgt Ion: 112 Resp: 44083

Ion Ratio Lower Upper

112 100

114 31.4 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

11.44

25000

20000

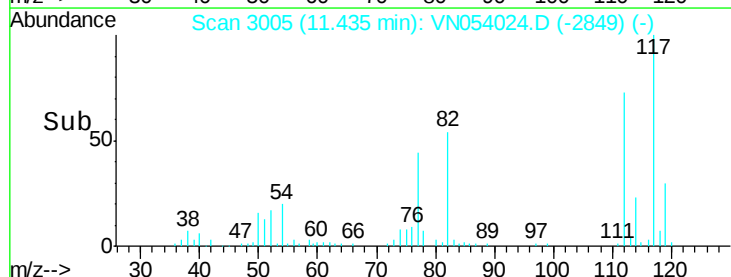
15000

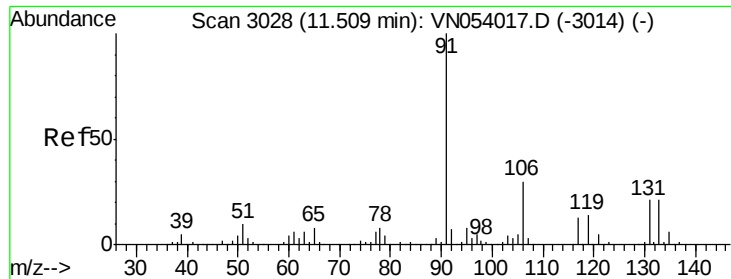
10000

5000

0

Time-->

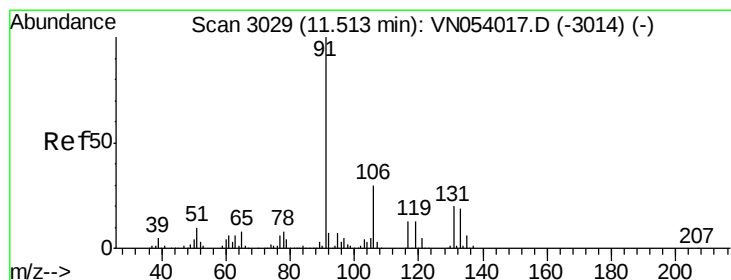
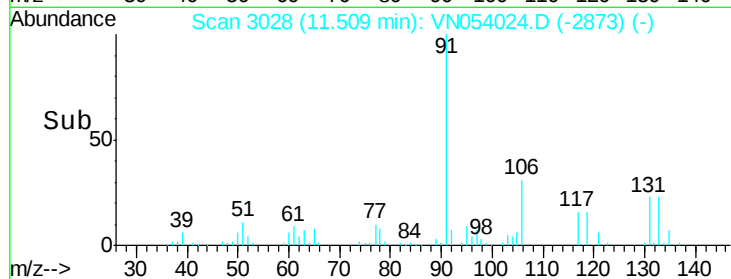
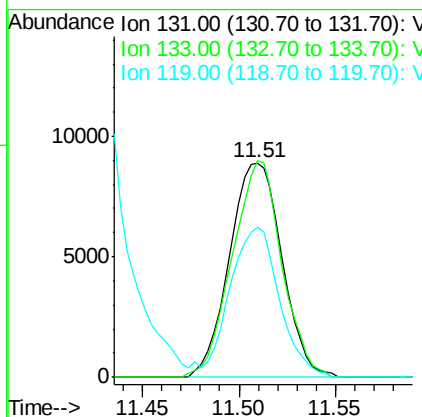
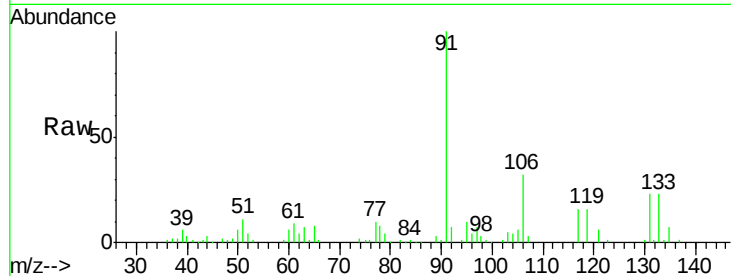




#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 2.620 ug/l  
 RT: 11.51 min Scan# 3028  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

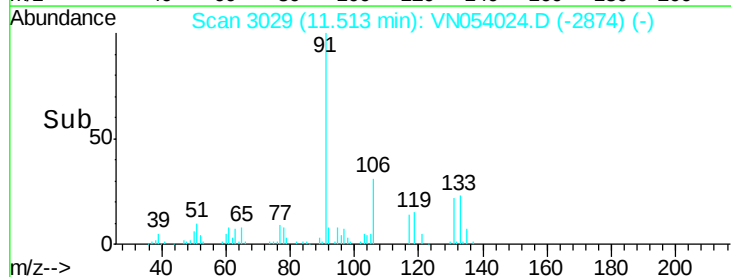
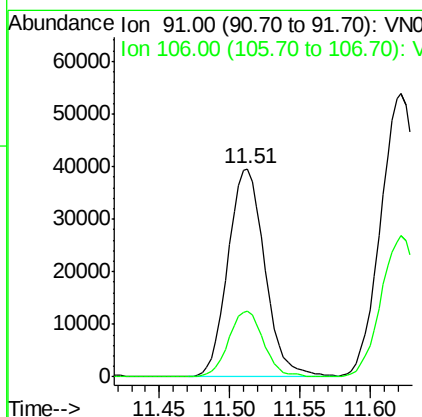
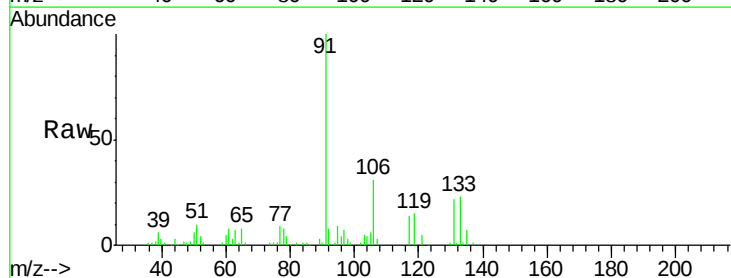
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

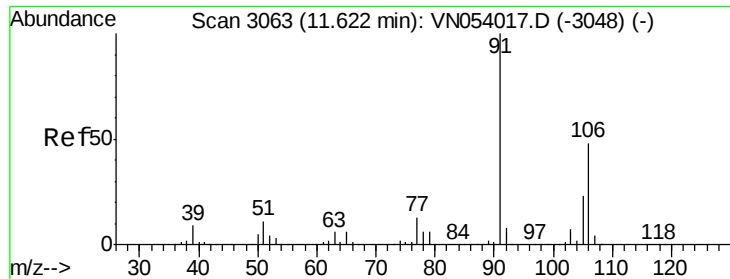
Tot Ion:131 Resp: 16801  
 Ion Ratio Lower Upper  
 131 100  
 133 95.6 0.0 193.4  
 119 65.9 0.0 133.0



#66  
 Ethyl Benzene  
 Concen: 2.419 ug/l  
 RT: 11.51 min Scan# 3029  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion: 91 Resp: 72525  
 Ion Ratio Lower Upper  
 91 100  
 106 31.5 24.3 36.5

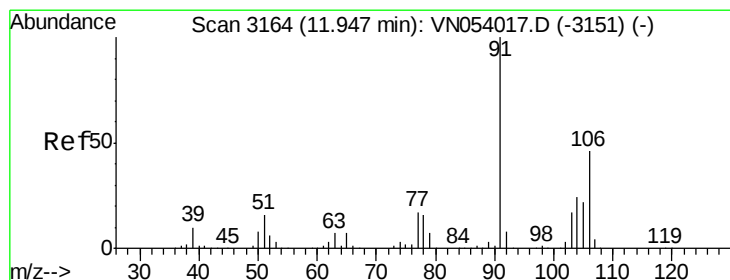
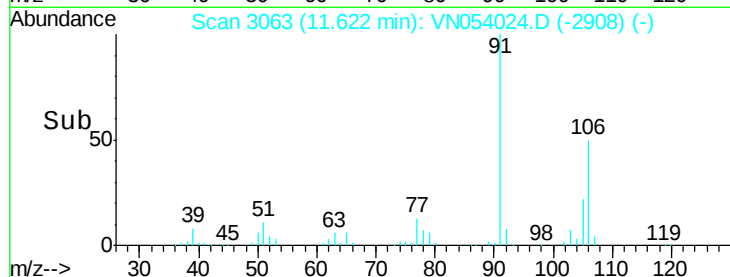
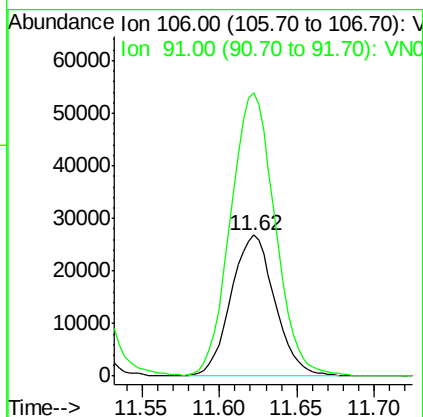
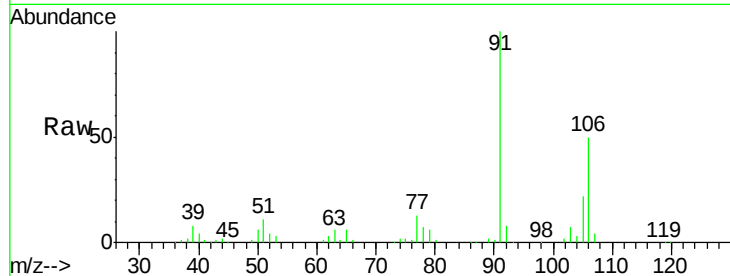




#67  
m/p-Xylenes  
Concen: 4.702 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

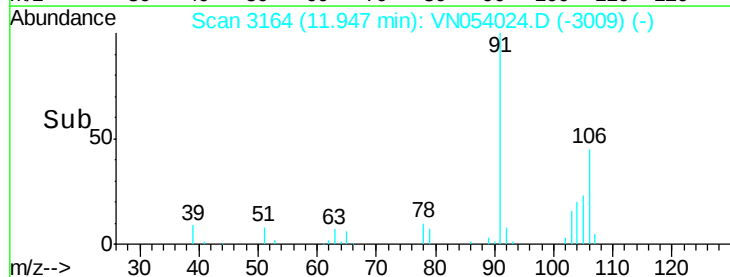
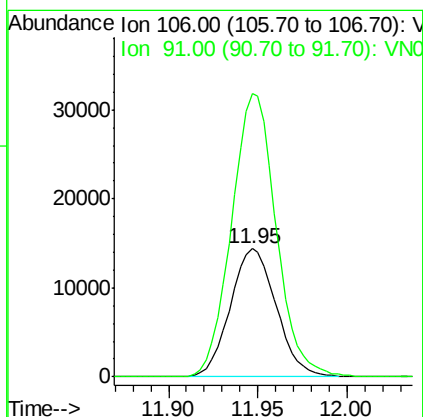
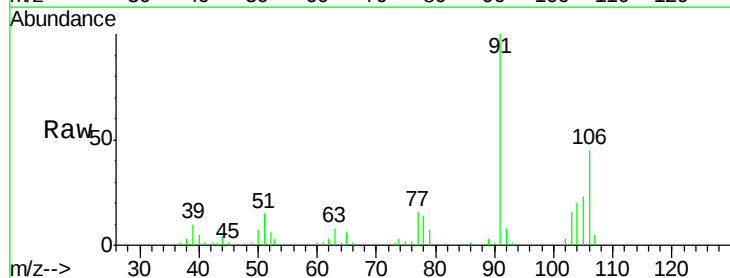
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

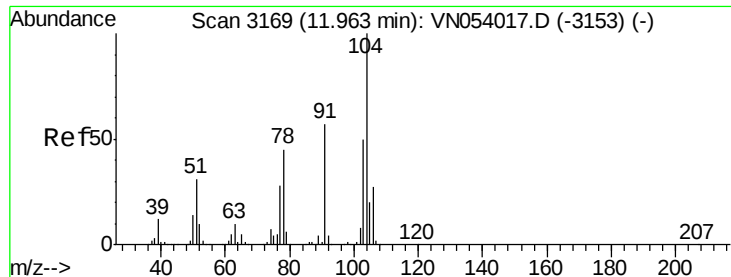
Tot Ion:106 Resp: 53065  
Ion Ratio Lower Upper  
106 100  
91 203.6 163.9 245.9



#68  
o-Xylene  
Concen: 2.361 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion:106 Resp: 25836  
Ion Ratio Lower Upper  
106 100  
91 214.6 107.8 323.4

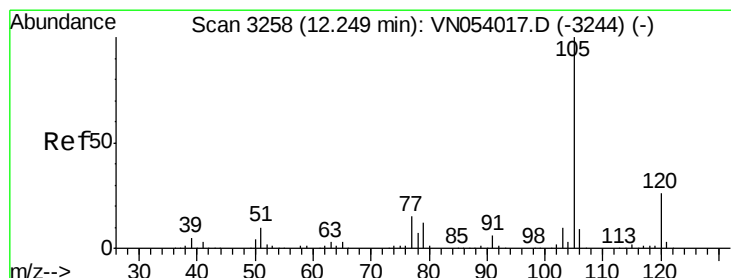
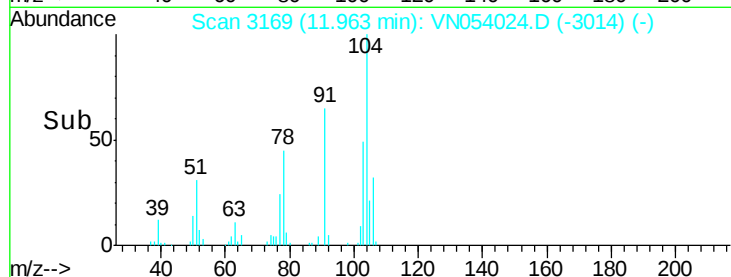
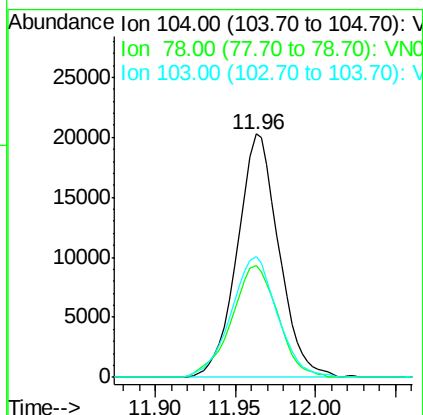
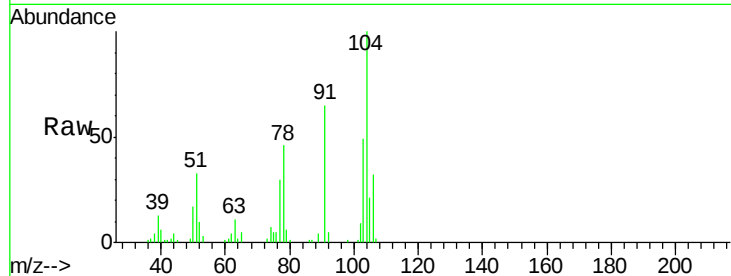




#69  
Stvrene  
Concen: 2.077 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

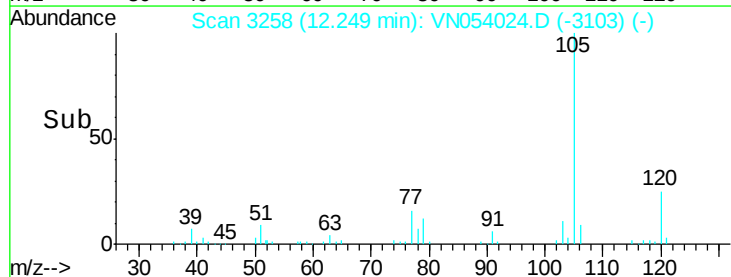
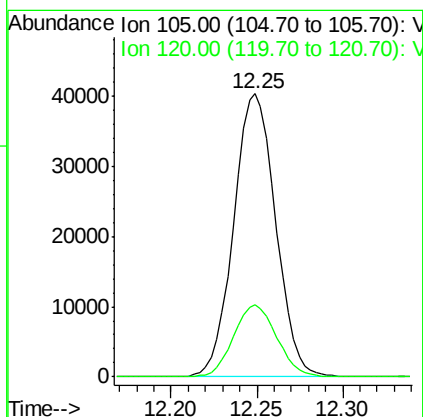
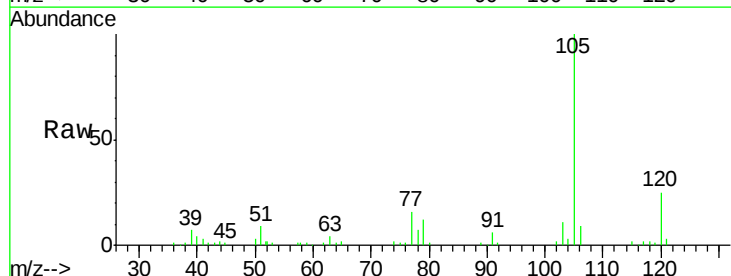
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

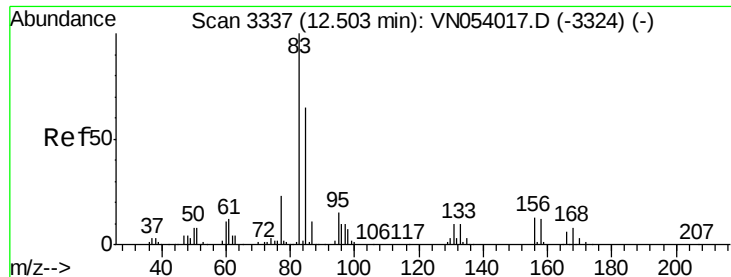
Tot Ion:104 Resp: 35976  
Ion Ratio Lower Upper  
104 100  
78 51.1 39.3 58.9  
103 55.0 44.6 66.8



#70  
Isopropylbenzene  
Concen: 2.388 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion:105 Resp: 68569  
Ion Ratio Lower Upper  
105 100  
120 26.0 18.6 34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 2.544 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

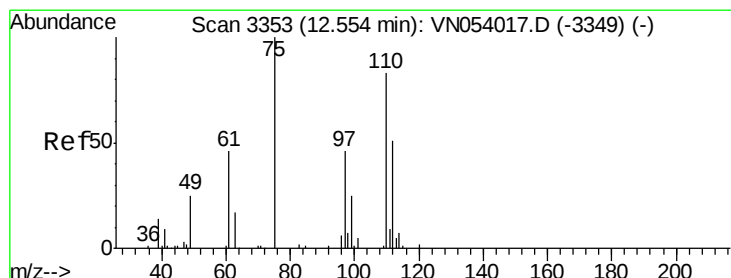
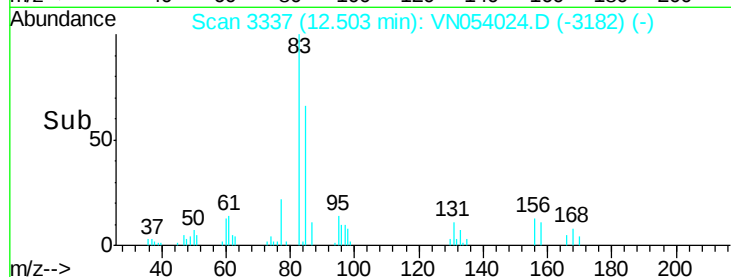
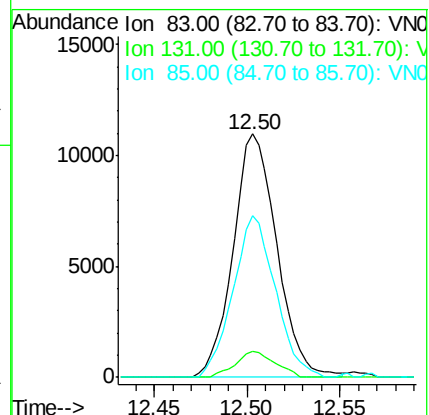
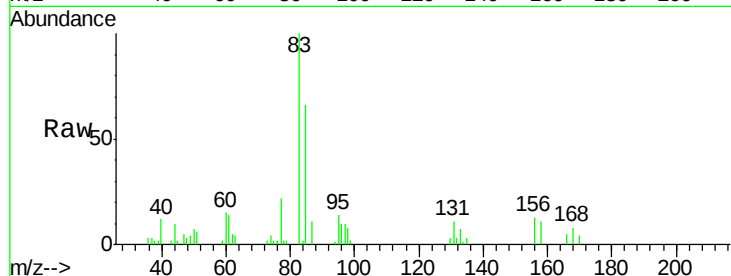
Tot Ion: 83 Resp: 18030

Ion Ratio Lower Upper

83 100

131 9.6 4.9 14.6

85 64.1 32.2 96.6



#72

1,2,3-Trichloropropane

Concen: 3.913 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054024.D

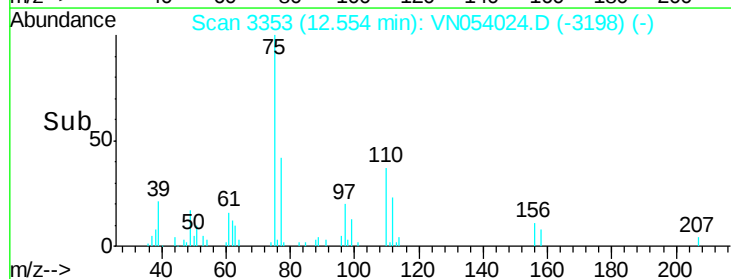
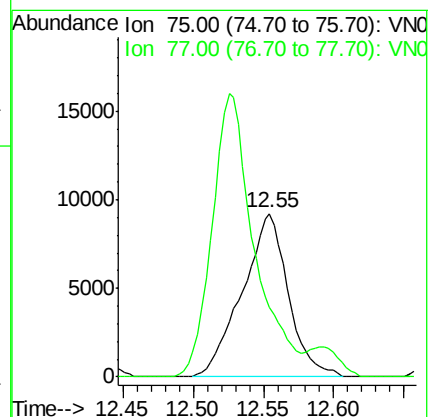
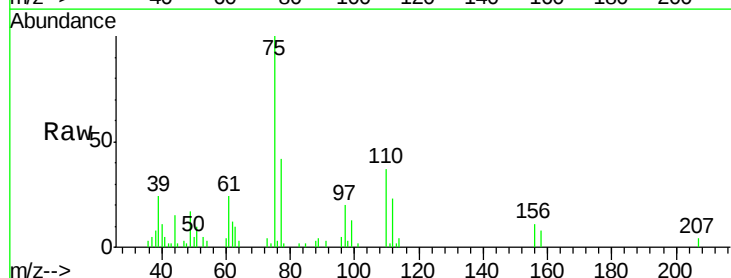
Acq: 1 Mar 2019 12:51

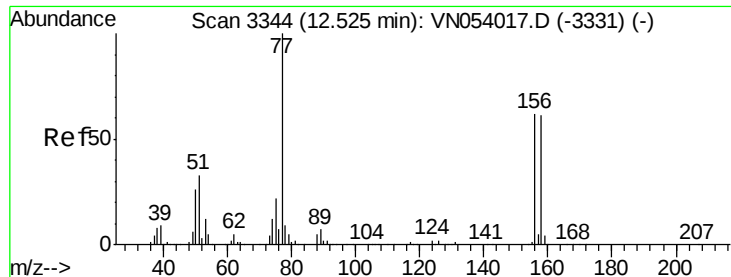
Tgt Ion: 75 Resp: 21056

Ion Ratio Lower Upper

75 100

77 157.4 0.0 514.8





#73

Bromobenzene

Concen: 2.401 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

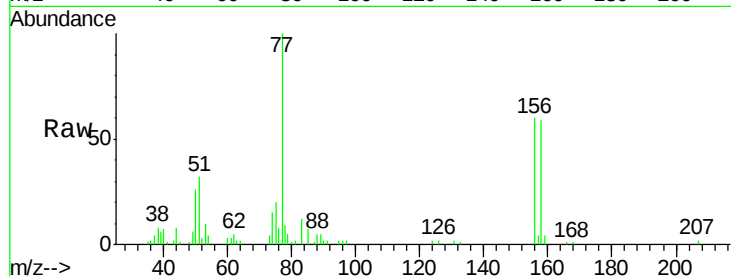
Tot Ion:156 Resp: 17382

Ion Ratio Lower Upper

156 100

77 190.6 0.0 382.6

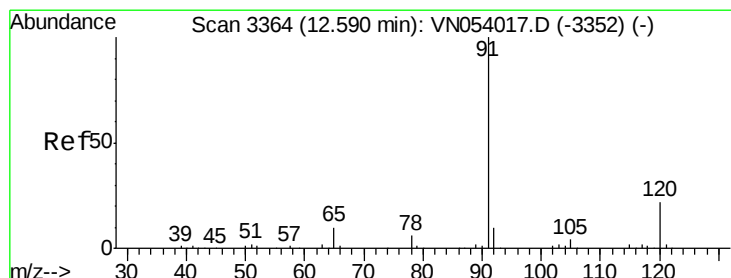
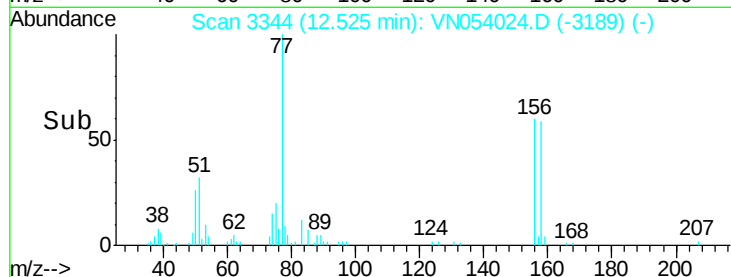
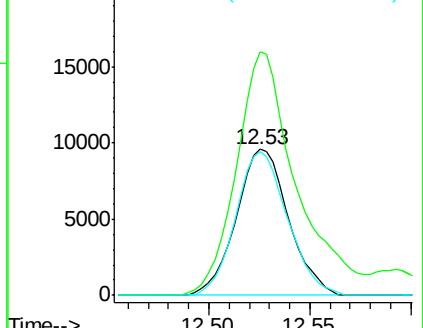
158 97.2 0.0 196.8



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: 2.233 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054024.D

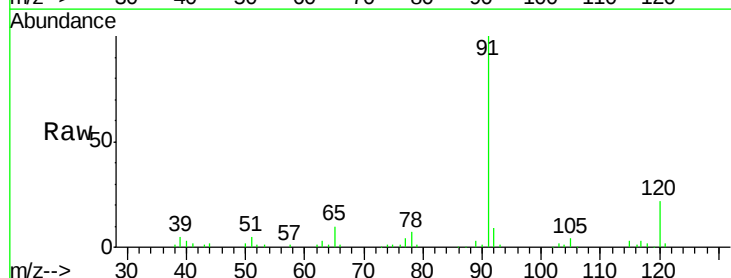
Acq: 1 Mar 2019 12:51

Tgt Ion: 91 Resp: 76360

Ion Ratio Lower Upper

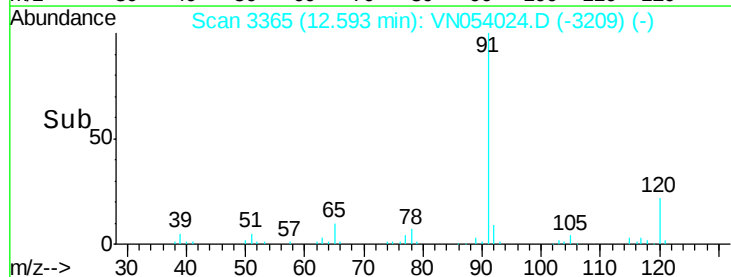
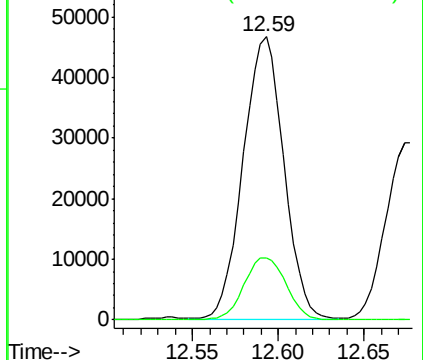
91 100

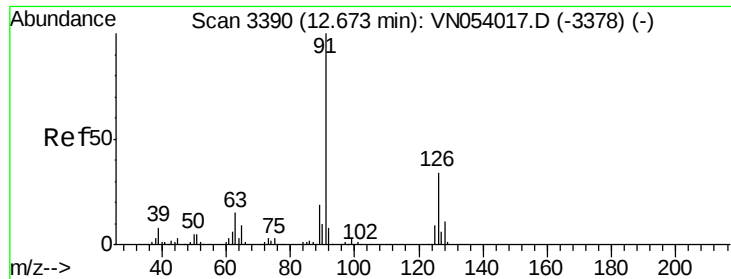
120 22.8 0.0 44.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.458 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

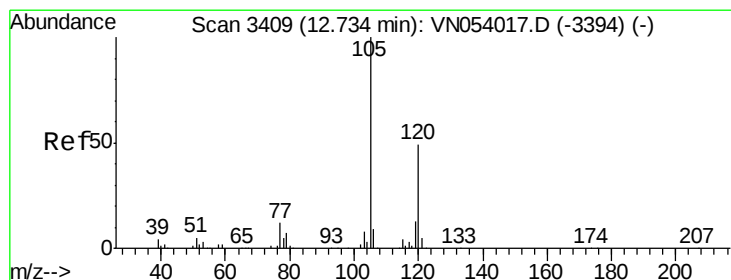
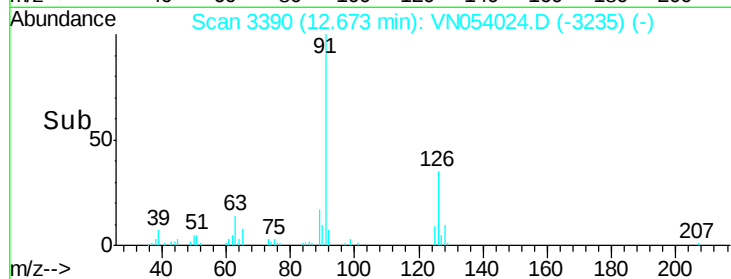
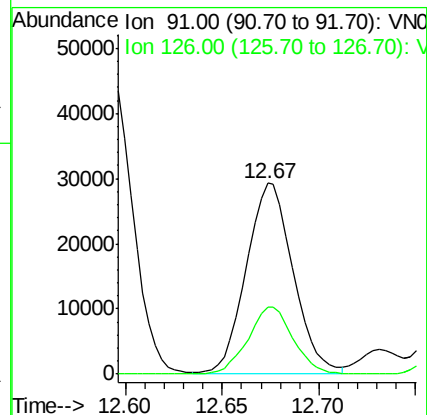
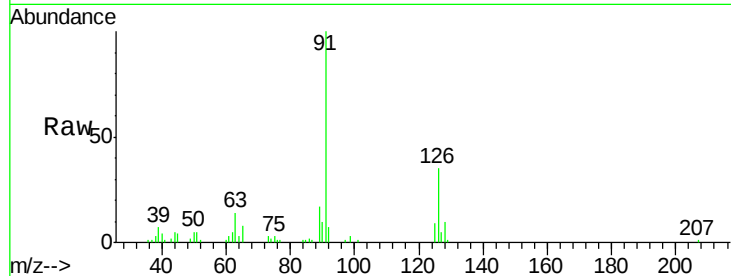
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 91 Resp: 49216

Ion Ratio Lower Upper

91 100

126 34.0 0.0 68.4



#76

1,3,5-Trimethylbenzene

Concen: 2.226 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054024.D

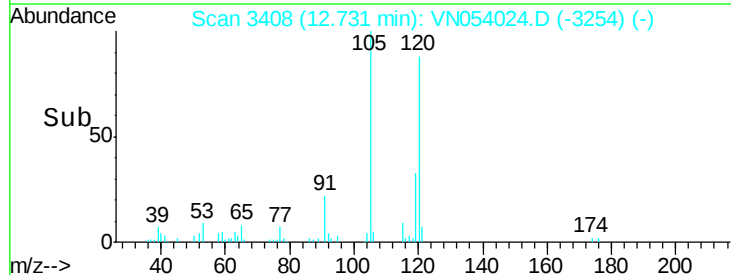
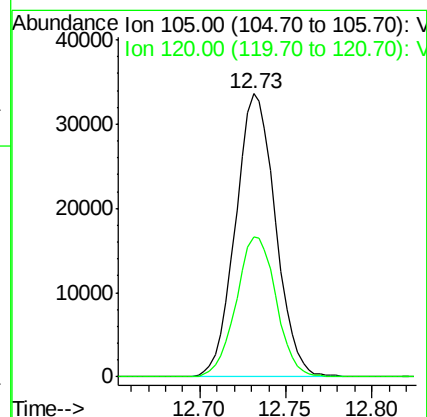
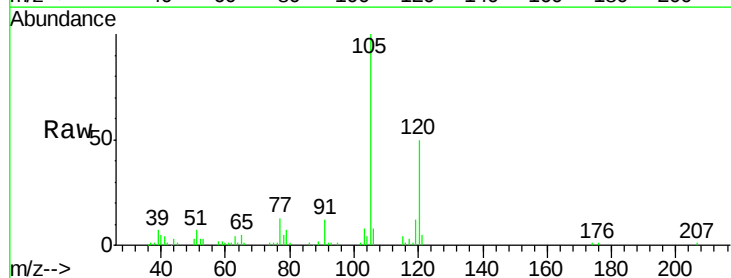
Acq: 1 Mar 2019 12:51

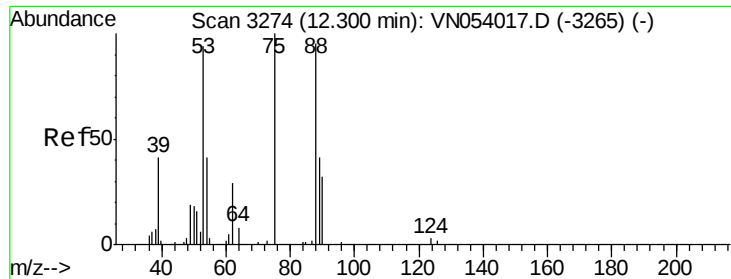
Tgt Ion: 105 Resp: 54157

Ion Ratio Lower Upper

105 100

120 49.4 0.0 97.4





#77

t-1,4-Dichloro-2-butene

Concen: 1.939 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

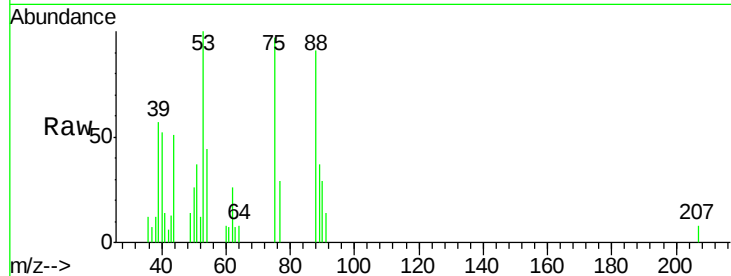
Tot Ion: 75 Resp: 3714

Ion Ratio Lower Upper

75 100

53 102.7 48.5 145.6

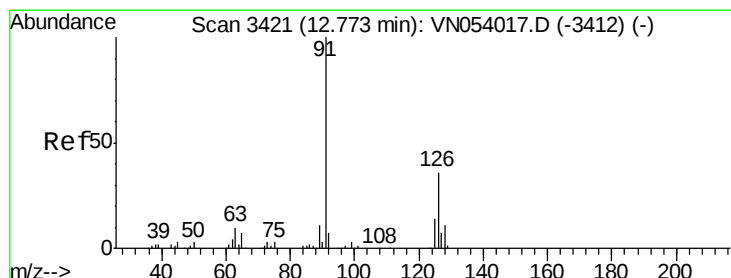
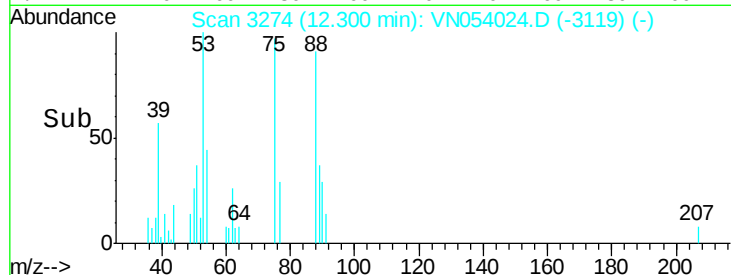
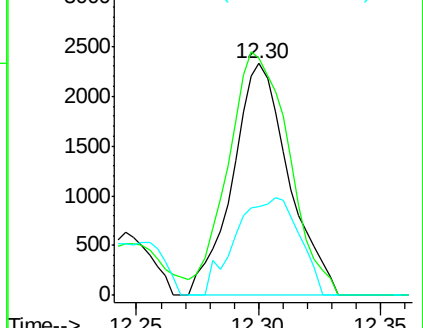
89 38.4 21.7 65.1



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 2.166 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054024.D

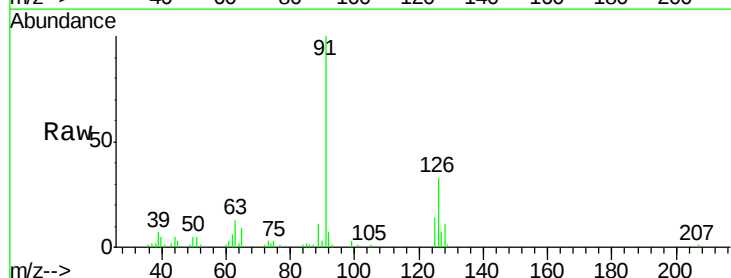
Acq: 1 Mar 2019 12:51

Tgt Ion: 91 Resp: 43405

Ion Ratio Lower Upper

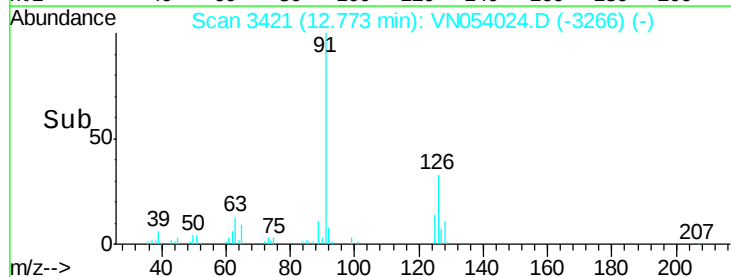
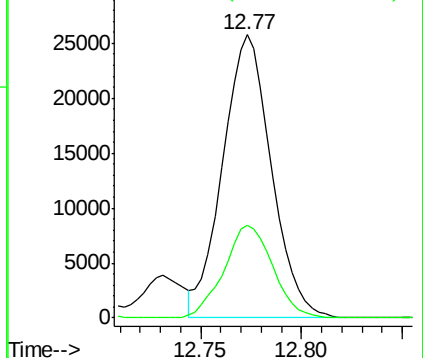
91 100

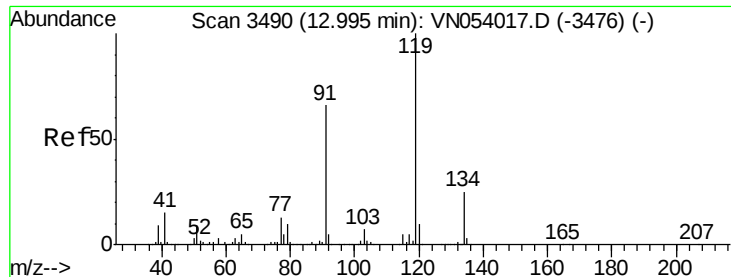
126 32.9 0.0 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

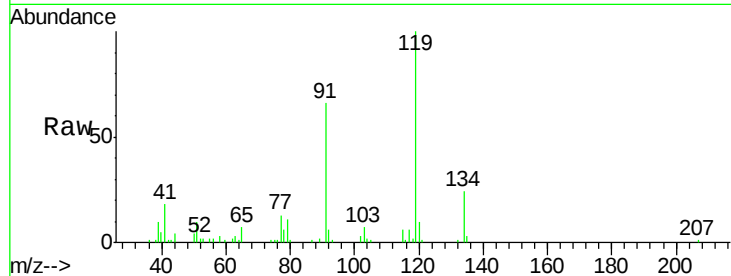




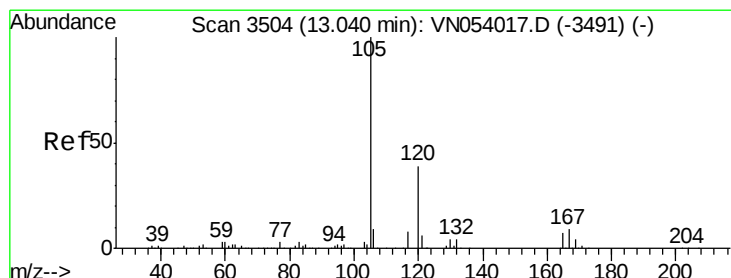
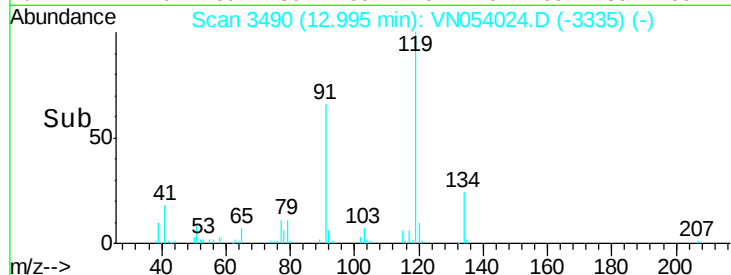
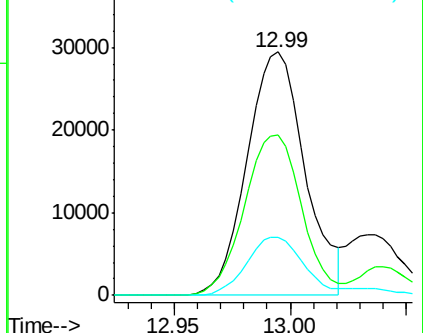
#79  
tert-butylbenzene  
Concen: 2.407 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

Tot Ion:119 Resp: 51301  
Ion Ratio Lower Upper  
119 100  
91 65.5 0.0 129.8  
134 23.2 0.0 52.2

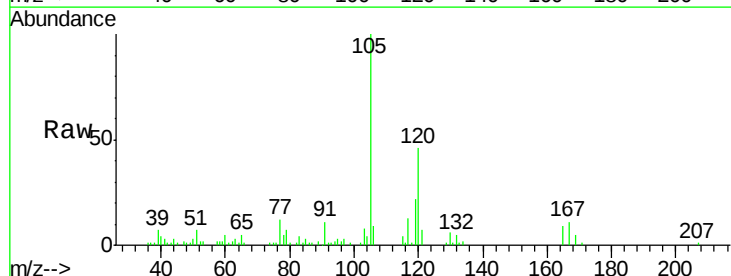


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

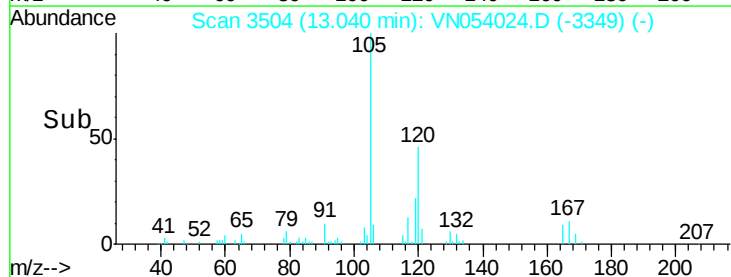
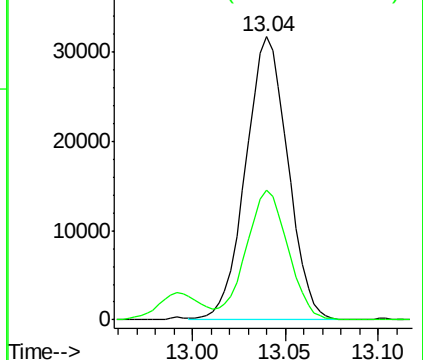


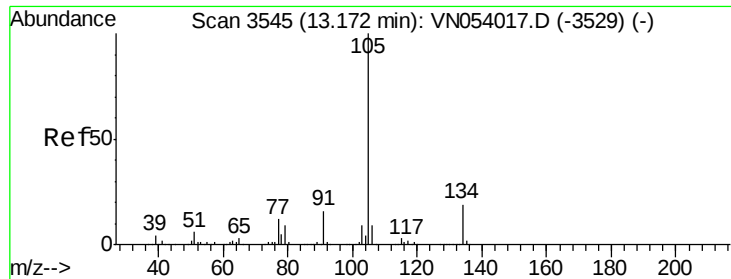
#80  
1,2,4-Trimethylbenzene  
Concen: 2.068 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion:105 Resp: 50075  
Ion Ratio Lower Upper  
105 100  
120 45.7 0.0 91.0



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

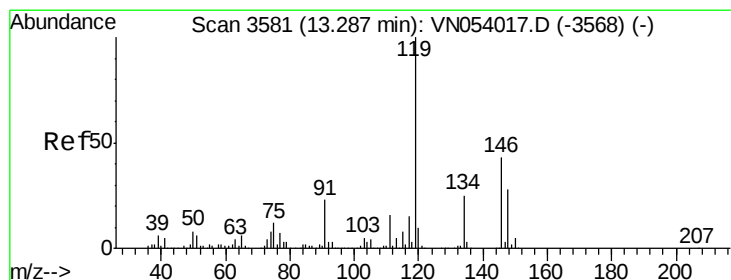
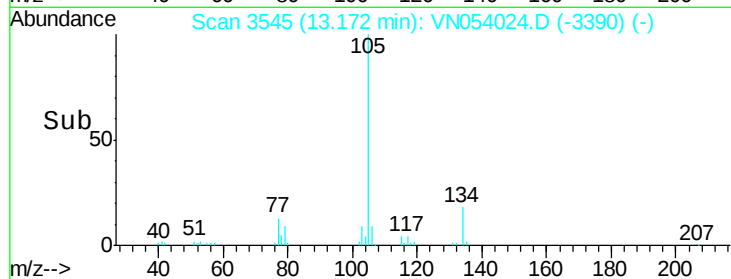
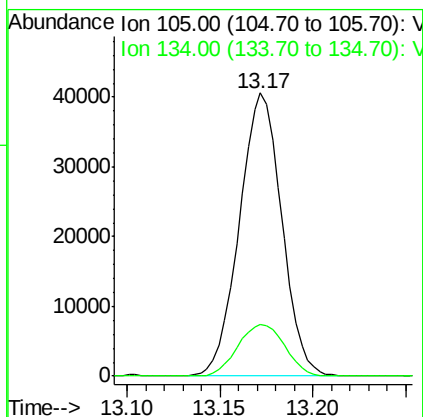
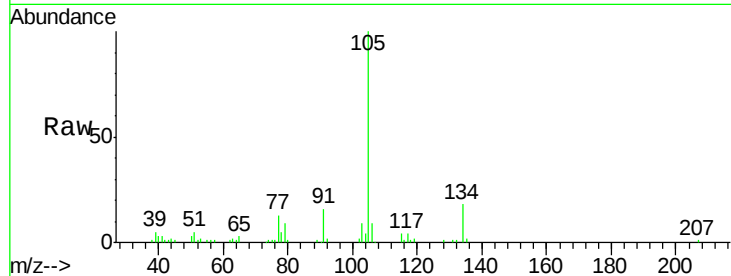




#81  
 sec-Butylbenzene  
 Concen: 2.212 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

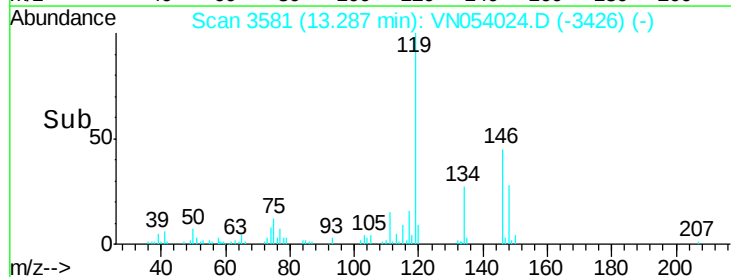
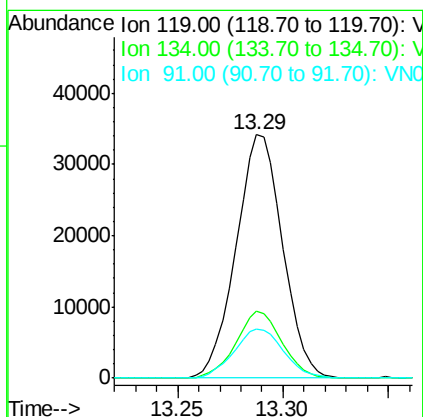
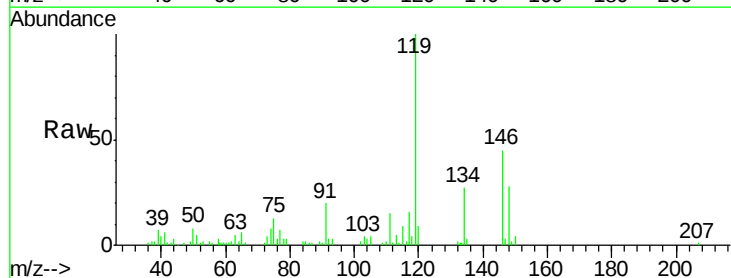
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

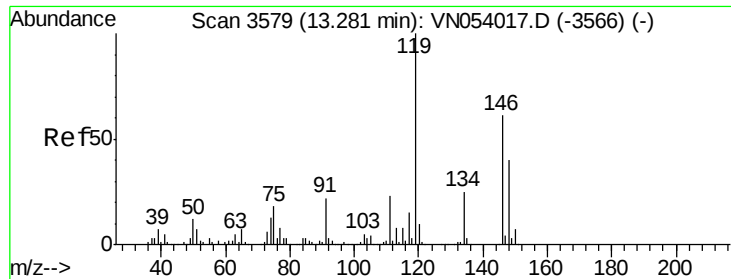
Tot Ion:105 Resp: 64674  
 Ion Ratio Lower Upper  
 105 100  
 134 20.2 0.0 40.4



#82  
 p-Isopropyltoluene  
 Concen: 2.100 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion:119 Resp: 52427  
 Ion Ratio Lower Upper  
 119 100  
 134 26.9 0.0 52.6  
 91 21.3 0.0 46.2

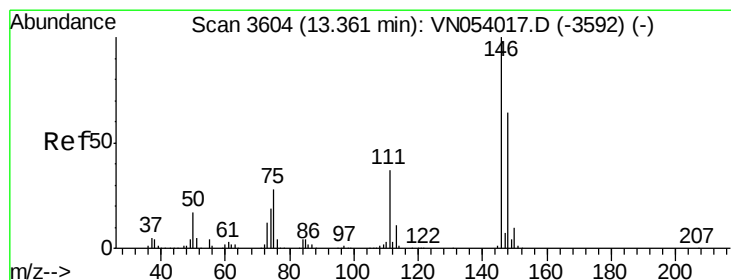
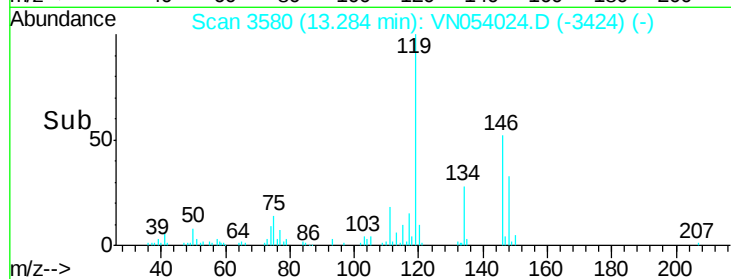
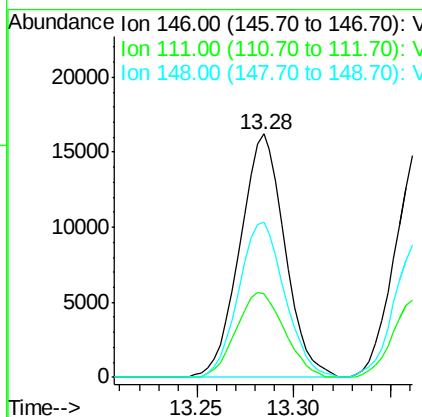
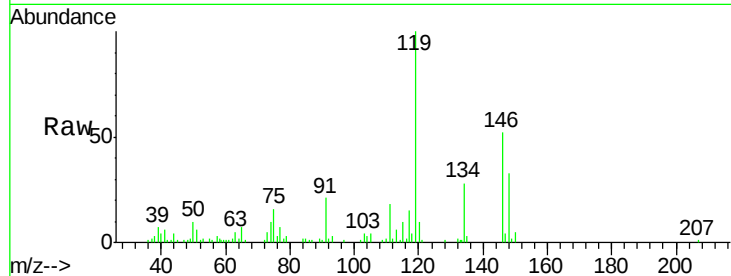




#83  
 1,3-Dichlorobenzene  
 Concen: 2.051 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

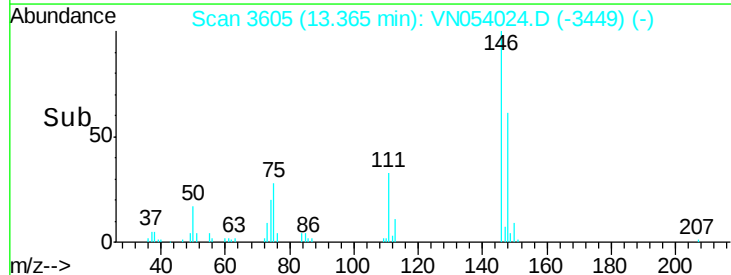
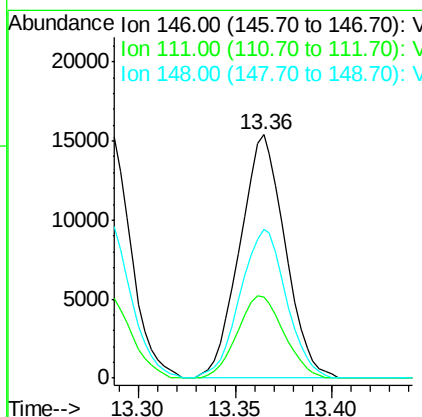
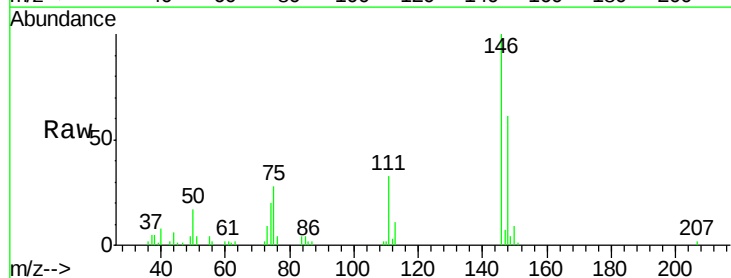
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

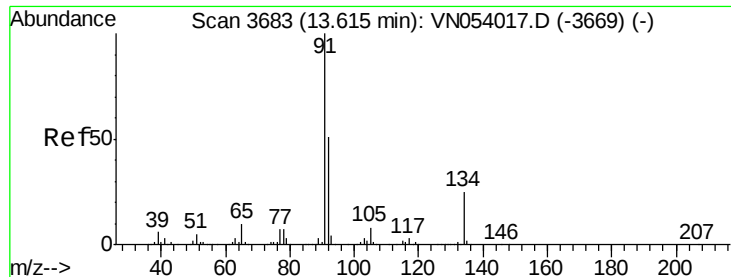
Tot Ion:146 Resp: 26192  
 Ion Ratio Lower Upper  
 146 100  
 111 37.3 19.7 59.0  
 148 65.6 32.3 96.8



#84  
 1,4-Dichlorobenzene  
 Concen: 2.060 ug/l  
 RT: 13.36 min Scan# 3605  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion:146 Resp: 25112  
 Ion Ratio Lower Upper  
 146 100  
 111 34.5 18.8 56.3  
 148 62.1 32.5 97.4

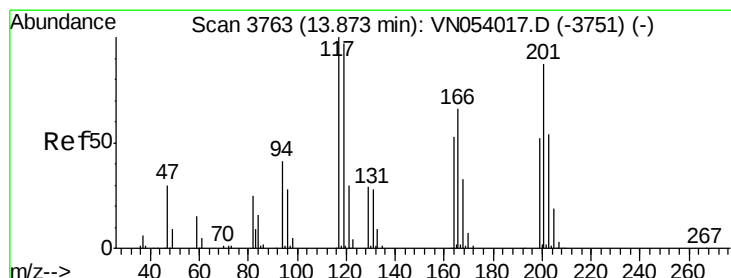
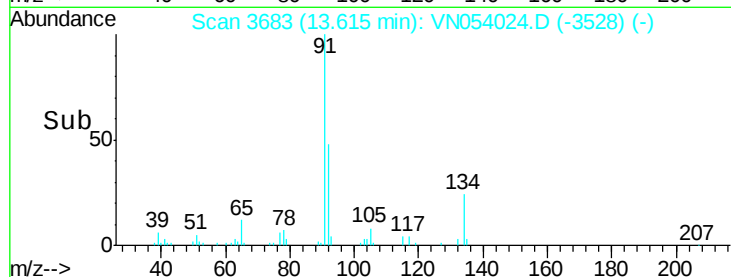
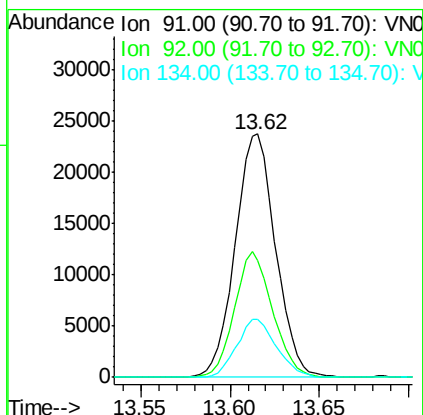
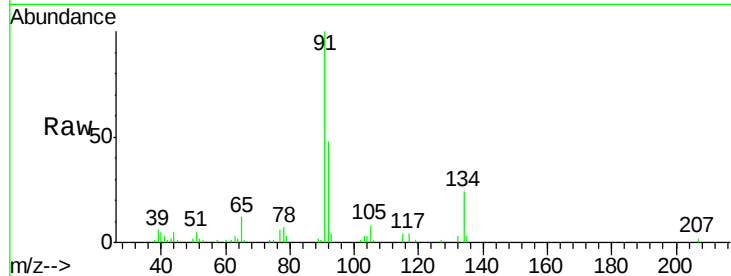




#85  
n-Butylbenzene  
Concen: 1.730 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. -0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

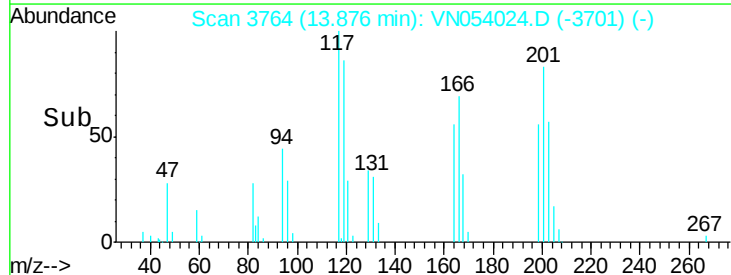
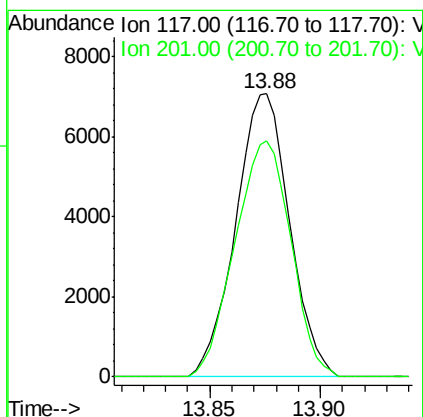
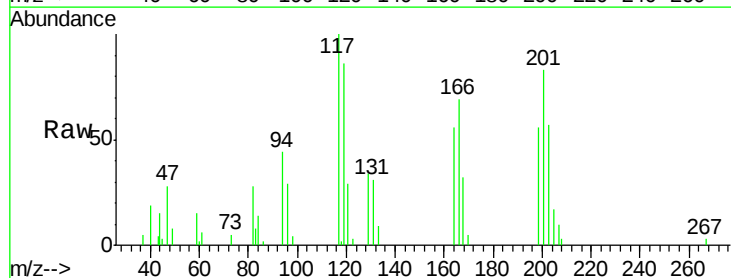
Instrument :  
MSVOA\_N  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2019

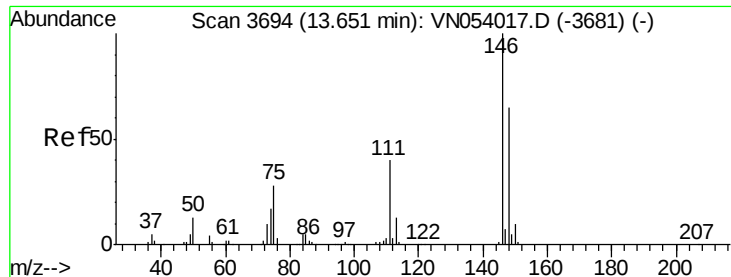
Tot Ion: 91 Resp: 37631  
Ion Ratio Lower Upper  
91 100  
92 48.5 0.0 104.2  
134 23.3 0.0 50.6



#86  
Hexachloroethane  
Concen: 2.564 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. 0.00 min  
Lab File: VN054024.D  
Acq: 1 Mar 2019 12:51

Tgt Ion: 117 Resp: 11965  
Ion Ratio Lower Upper  
117 100  
201 86.5 43.8 131.3





#87

1,2-Dichlorobenzene

Concen: 2.146 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

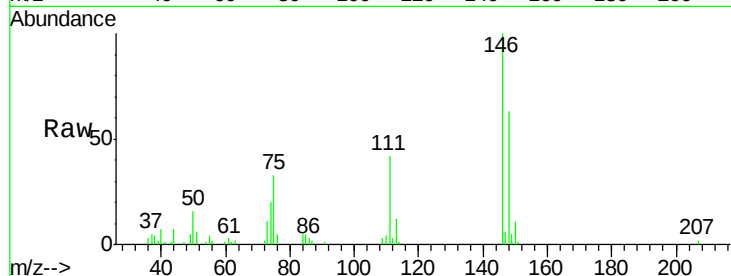
Tot Ion:146 Resp: 26582

Ion Ratio Lower Upper

146 100

111 40.8 20.3 60.8

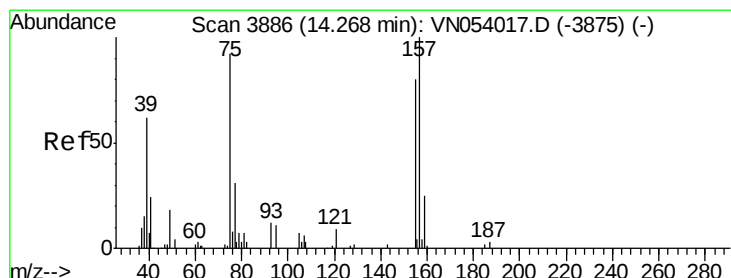
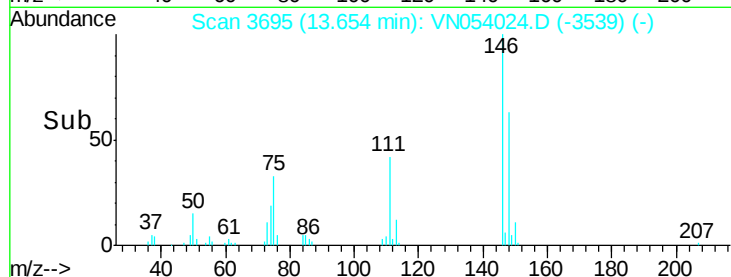
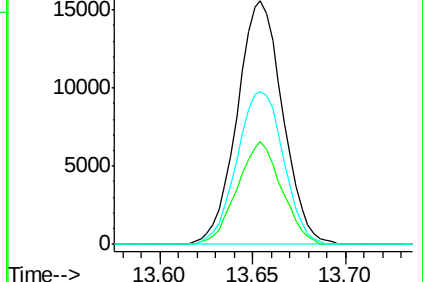
148 64.1 32.1 96.5



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



#88

1,2-Dibromo-3-Chloropropane

Concen: 2.225 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

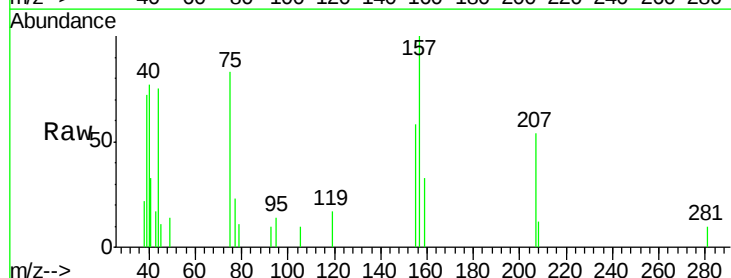
Tgt Ion: 75 Resp: 2282

Ion Ratio Lower Upper

75 100

155 41.7 72.2 108.2#

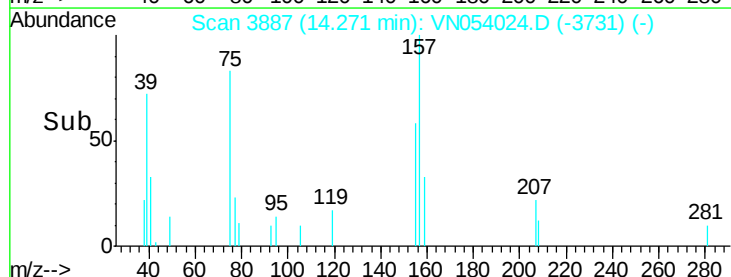
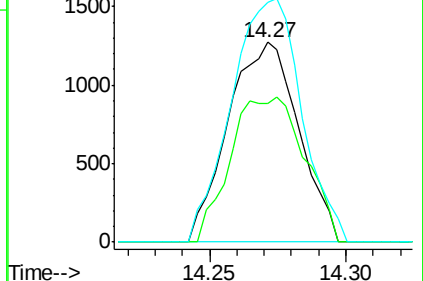
157 121.5 94.2 141.2

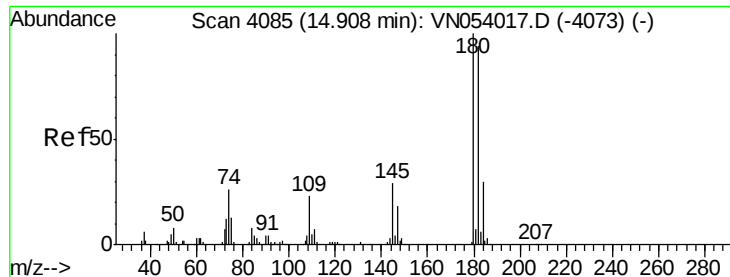


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

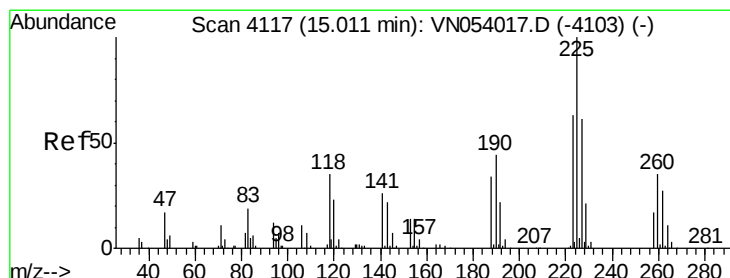
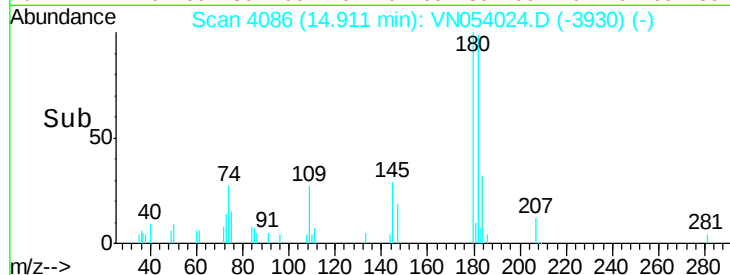
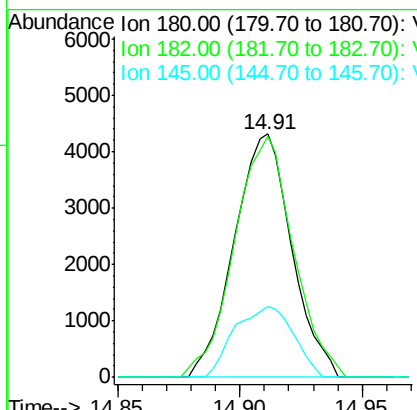
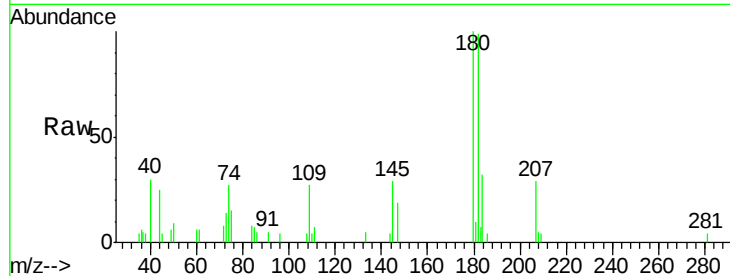




#89  
 1,2,4-Trichlorobenzene  
 Concen: 1.117 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. 0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

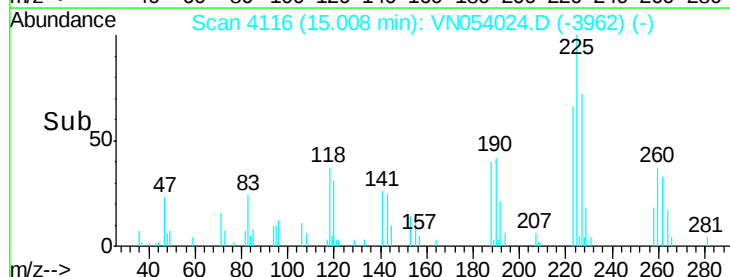
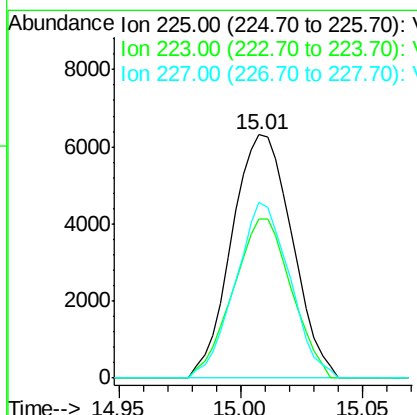
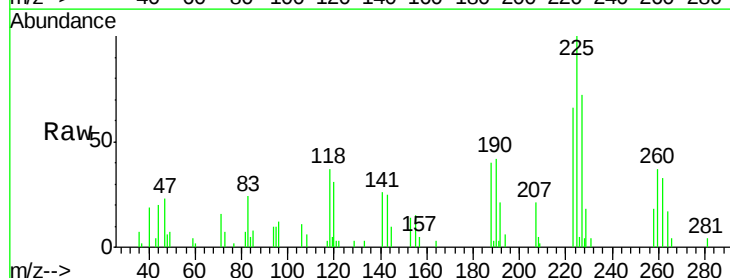
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

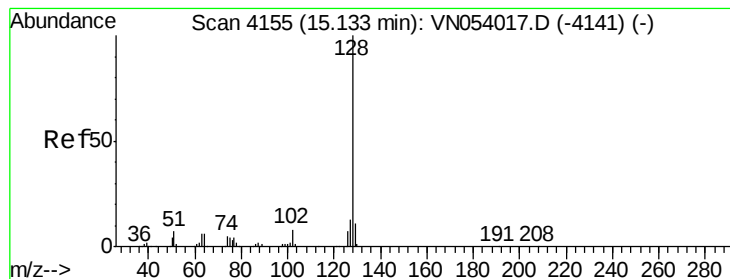
Tot Ion:180 Resp: 7031  
 Ion Ratio Lower Upper  
 180 100  
 182 101.9 76.6 114.8  
 145 30.0 23.6 35.4



#90  
 Hexachlorobutadiene  
 Concen: 2.368 ug/l  
 RT: 15.01 min Scan# 4116  
 Delta R.T. -0.00 min  
 Lab File: VN054024.D  
 Acq: 1 Mar 2019 12:51

Tgt Ion:225 Resp: 10827  
 Ion Ratio Lower Upper  
 225 100  
 223 63.0 0.0 125.6  
 227 64.9 0.0 127.8





#91

Naphthalene

Concen: 7.844 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

Instrument :

MSVOA\_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

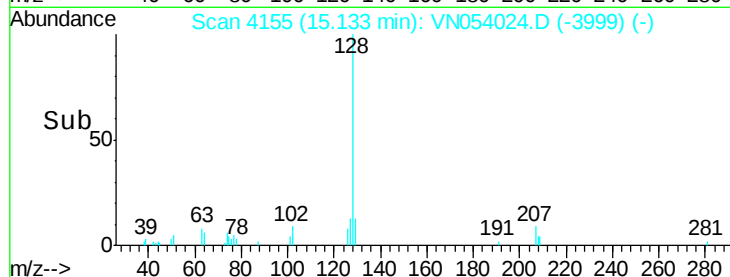
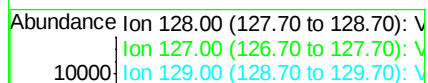
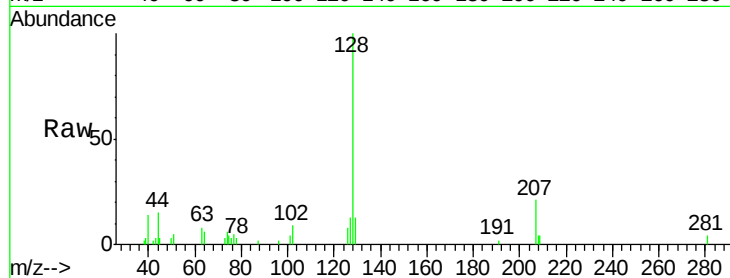
Tot Ion:128 Resp: 14415

Ion Ratio Lower Upper

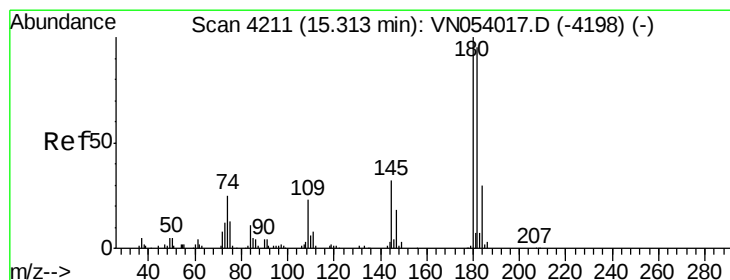
128 100

127 11.9 9.9 14.9

129 11.8 8.5 12.7



Time-->



#92

1,2,3-Trichlorobenzene

Concen: 1.437 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054024.D

Acq: 1 Mar 2019 12:51

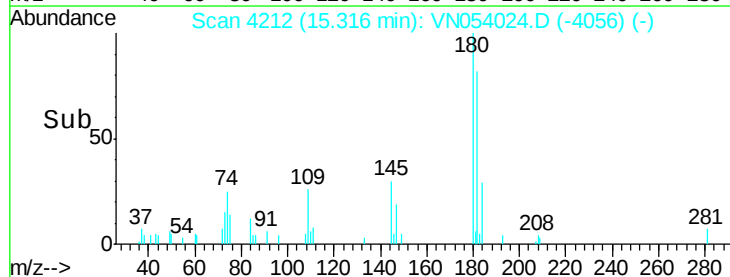
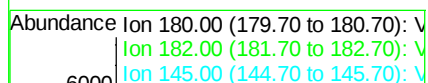
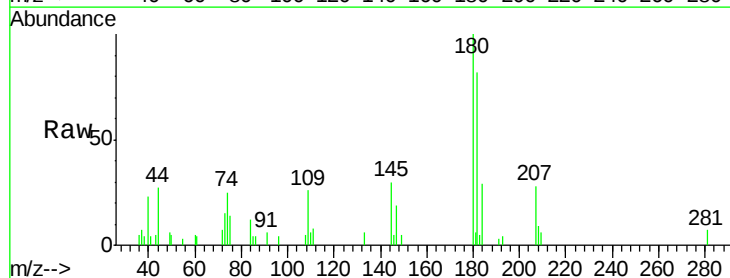
Tgt Ion:180 Resp: 8931

Ion Ratio Lower Upper

180 100

182 90.1 0.0 196.2

145 34.5 0.0 62.2



Time-->