

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN101019\  
 Data File : VN058649.D  
 Acq On : 9 Oct 2019 18:48  
 Operator : JC/SP  
 Sample : K5184-08  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3

Quant Time: Oct 10 04:39:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 443157   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 696307   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 609567   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 267106   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.01   | 65  | 295997   | 45.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.42%  |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 213385   | 50.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.00% |      |
| 50) Toluene-d8              | 10.08  | 98  | 890224   | 53.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.50% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 310502   | 51.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.74% |      |

| Target Compounds              |       |     |         |         |        | Qvalue |
|-------------------------------|-------|-----|---------|---------|--------|--------|
| 3) Chloromethane              | 2.04  | 50  | 2171    | 0.406   | ug/l # | 71     |
| 11) Tert butyl alcohol        | 4.76  | 59  | 1369    | 1.903   | ug/l # | 71     |
| 13) Acrolein                  | 3.54  | 56  | 60702   | 265.279 | ug/l # | 1      |
| 14) Allyl chloride            | 4.40  | 41  | 41794   | 5.494   | ug/l # | 50     |
| 15) Acrylonitrile             | 5.03  | 53  | 39773   | 18.969  | ug/l # | 42     |
| 16) Acetone                   | 3.78  | 43  | 131419  | 59.530  | ug/l # | 64     |
| 17) Carbon Disulfide          | 4.03  | 76  | 4752    | 0.431   | ug/l   | 95     |
| 18) Methyl Acetate            | 4.57  | 43  | 1297965 | 233.766 | ug/l # | 53     |
| 19) Methyl tert-butyl Ether   | 5.02  | 73  | 7821    | 0.530   | ug/l # | 1      |
| 20) Methylene Chloride        | 4.40  | 84  | 5547    | 1.089   | ug/l # | 6      |
| 23) Vinyl Acetate             | 5.91  | 43  | 25031   | 2.028   | ug/l # | 74     |
| 24) 1,1-Dichloroethane        | 5.91  | 63  | 9249    | 1.004   | ug/l # | 85     |
| 25) 2-Butanone                | 6.82  | 43  | 22610   | 7.460   | ug/l   | 92     |
| 26) 2,2-Dichloropropane       | 6.61  | 77  | 10064   | 1.329   | ug/l # | 54     |
| 28) Bromochloromethane        | 7.37  | 49  | 5272    | 1.431   | ug/l # | 16     |
| 29) Tetrahydrofuran           | 7.19  | 42  | 1580    | 0.821   | ug/l # | 34     |
| 30) Chloroform                | 7.37  | 83  | 12881   | 1.380   | ug/l   | 92     |
| 31) Cyclohexane               | 7.63  | 56  | 283954  | 31.682  | ug/l   | 95     |
| 36) 1,1-Dichloropropene       | 7.65  | 75  | 38065   | 5.717   | ug/l # | 50     |
| 37) Ethyl Acetate             | 6.82  | 43  | 22610   | 4.005   | ug/l # | 70     |
| 38) Carbon Tetrachloride      | 7.65  | 117 | 44776   | 7.450   | ug/l # | 16     |
| 39) Methylcyclohexane         | 9.07  | 83  | 236219  | 30.381  | ug/l   | 93     |
| 40) Benzene                   | 8.03  | 78  | 1592501 | 83.210  | ug/l   | 98     |
| 41) Methacrylonitrile         | 7.19  | 41  | 15493   | 5.966   | ug/l # | 38     |
| 43) Isopropyl Acetate         | 8.13  | 43  | 60635   | 5.712   | ug/l # | 63     |
| 47) Bromodichloromethane      | 9.38  | 83  | 26488   | 4.301   | ug/l # | 25     |
| 48) Methyl methacrylate       | 9.22  | 41  | 4606    | 0.953   | ug/l # | 13     |
| 49) 1,4-Dioxane               | 9.28  | 88  | 29      | 0.449   | ug/l # | 21     |
| 51) 4-Methyl-2-Pentanone      | 10.26 | 43  | 1987    | 0.364   | ug/l   | 97     |
| 52) Toluene                   | 10.15 | 92  | 175198  | 14.544  | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane     | 10.53 | 97  | 64610   | 14.730  | ug/l # | 17     |
| 56) Ethyl methacrylate        | 10.43 | 69  | 4128    | 0.620   | ug/l # | 20     |
| 58) 2-Chloroethyl Vinyl ether | 9.66  | 63  | 2907    | 1.095   | ug/l # | 50     |
| 59) 2-Hexanone                | 10.76 | 43  | 2478    | 0.624   | ug/l   | 75     |

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 Data File : VN058649.D  
 Acq On : 9 Oct 2019 18:48  
 Operator : JC/SP  
 Sample : K5184-08  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

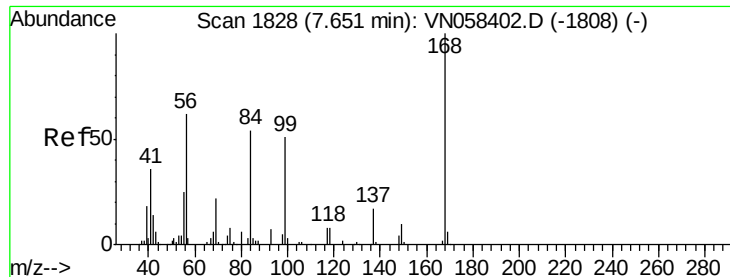
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3

Quant Time: Oct 10 04:39:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 60) Dibromochloromethane       | 10.63 | 129  | 29       | Below Cal | #      | 11       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 1207     | 0.269     | ug/l # | 1        |
| 67) Ethyl Benzene              | 11.51 | 91   | 826873   | 37.676    | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.62 | 106  | 342830   | 41.518    | ug/l   | 97       |
| 69) o-Xylene                   | 11.95 | 106  | 34290    | 4.314     | ug/l   | 98       |
| 71) Bromoform                  | 12.39 | 173  | 165      | 0.752     | ug/l # | 29       |
| 73) Isopropylbenzene           | 12.25 | 105  | 1749799  | 88.643    | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.60 | 75   | 8716     | 1.787     | ug/l # | 100      |
| 78) n-propylbenzene            | 12.60 | 91   | 1524061  | 68.531    | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.60 | 91   | 1524061  | 111.029   | ug/l # | 42       |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 191109   | 11.565    | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.25 | 75   | 21497    | 13.382    | ug/l # | 68       |
| 82) 4-Chlorotoluene            | 12.90 | 91   | 63455    | 4.530     | ug/l # | 43       |
| 83) tert-Butylbenzene          | 13.00 | 119  | 41574    | 2.982     | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.05 | 105  | 44311    | 2.676     | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.18 | 105  | 127587   | 6.952     | ug/l # | 63       |
| 86) p-Isopropyltoluene         | 13.45 | 119  | 50492    | 3.126     | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.62 | 91   | 148262   | 10.132    | ug/l # | 56       |
| 90) Hexachloroethane           | 13.90 | 117  | 158475   | 65.292    | ug/l # | 11       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.22 | 75   | 8009     | 7.781     | ug/l # | 5        |
| 95) Naphthalene                | 15.13 | 128  | 277312   | 21.233    | ug/l   | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

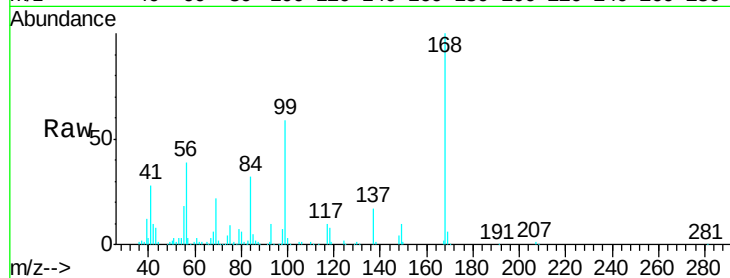
MW-3

Tgt Ion:168 Resp: 443157

Ion Ratio Lower Upper

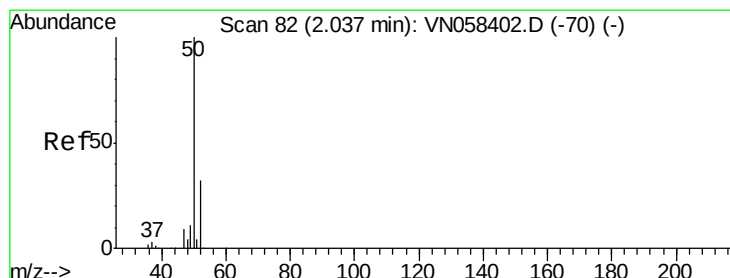
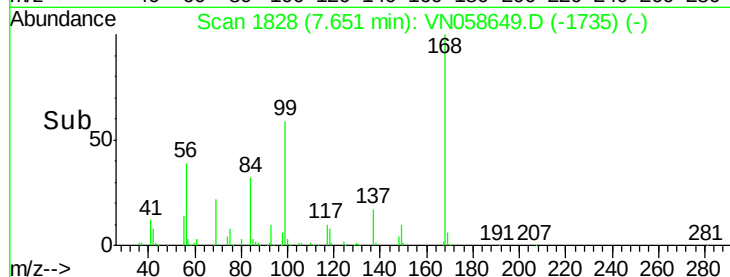
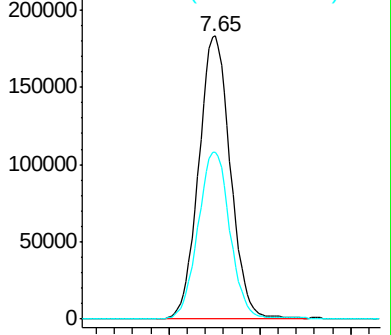
168 100

99 59.2 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.406 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN058649.D

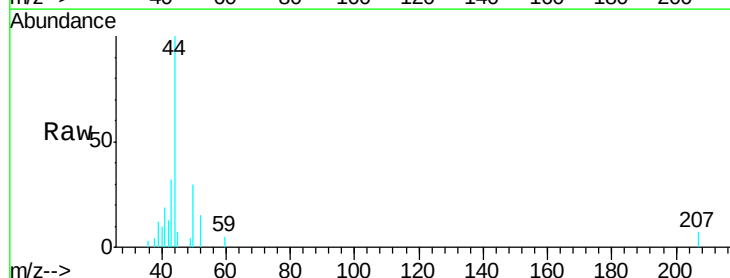
Acq: 9 Oct 2019 18:48

Tgt Ion: 50 Resp: 2171

Ion Ratio Lower Upper

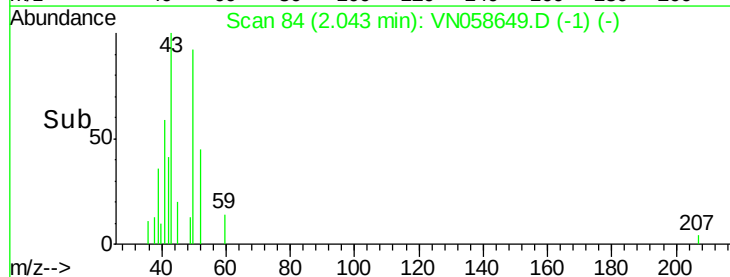
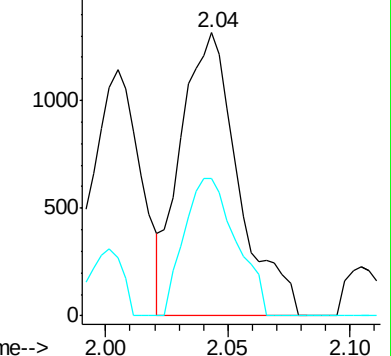
50 100

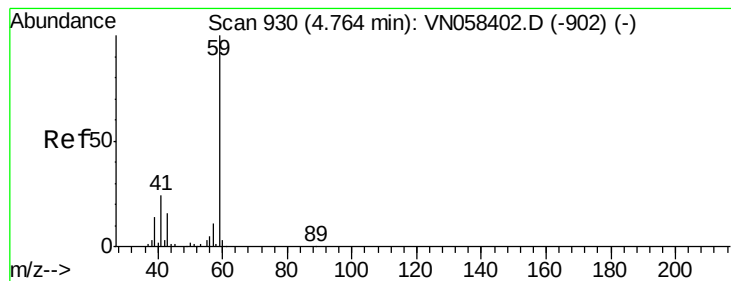
52 48.8 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#11

Tert butyl alcohol

Concen: 1.903 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampleId :

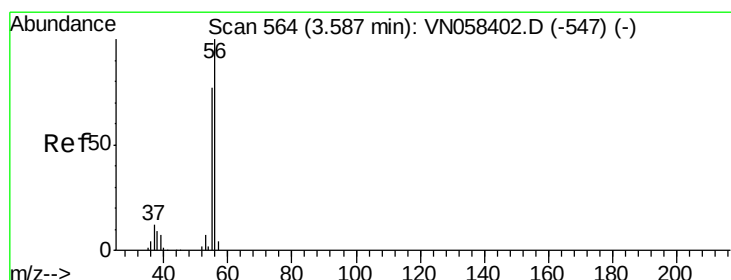
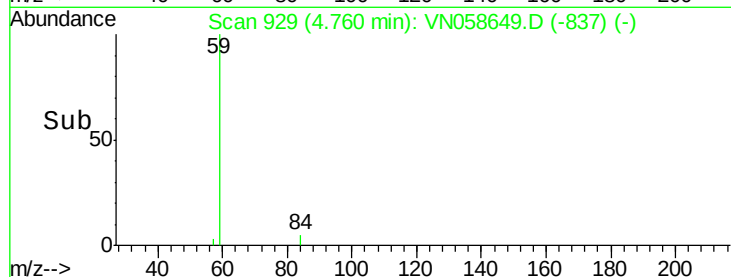
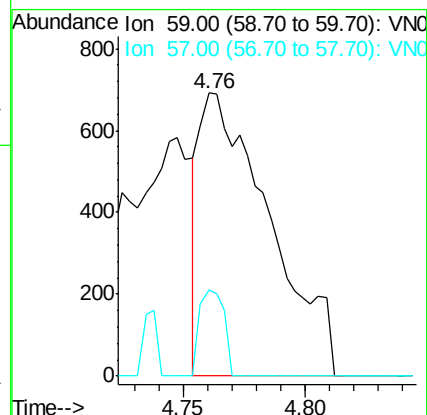
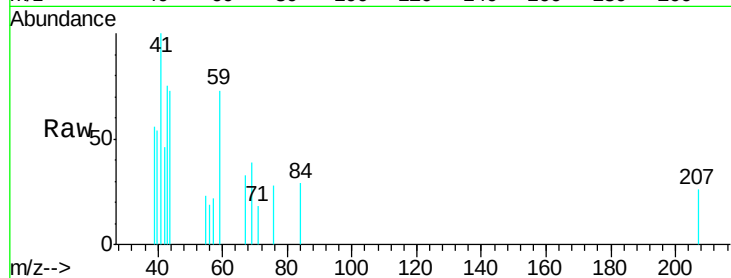
MW-3

Tgt Ion: 59 Resp: 1369

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#13

Acrolein

Concen: 265.279 ug/l

RT: 3.54 min Scan# 551

Delta R.T. -0.04 min

Lab File: VN058649.D

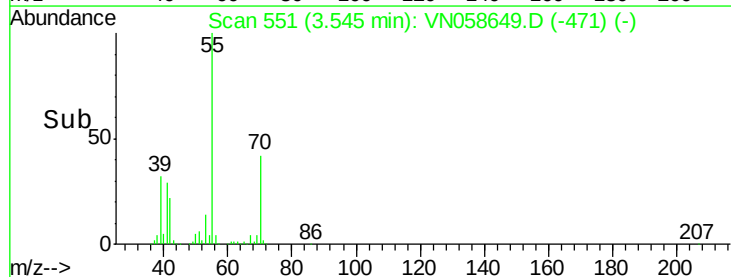
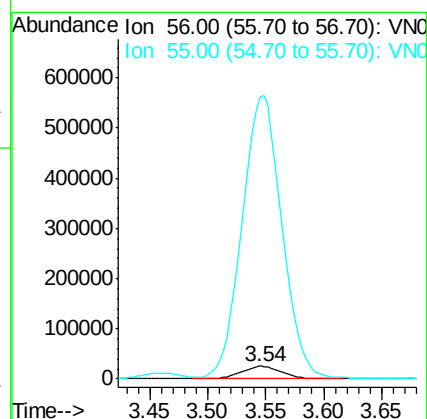
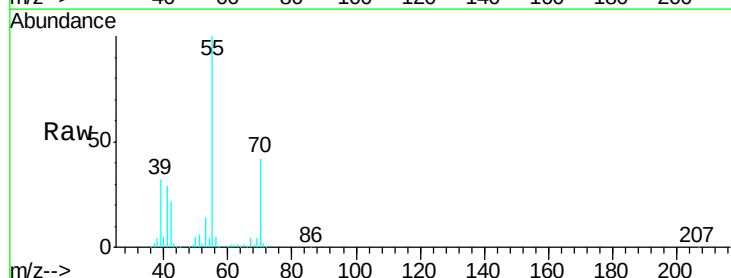
Acq: 9 Oct 2019 18:48

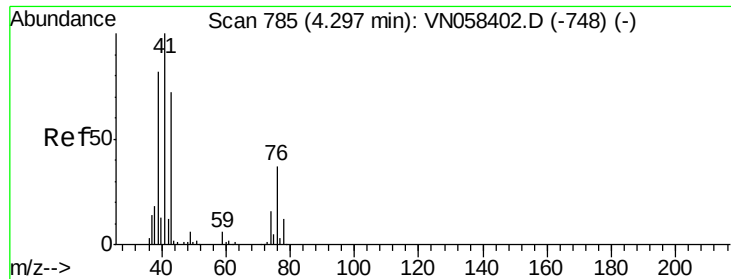
Tgt Ion: 56 Resp: 60702

Ion Ratio Lower Upper

56 100

55 2228.4 58.3 87.5#

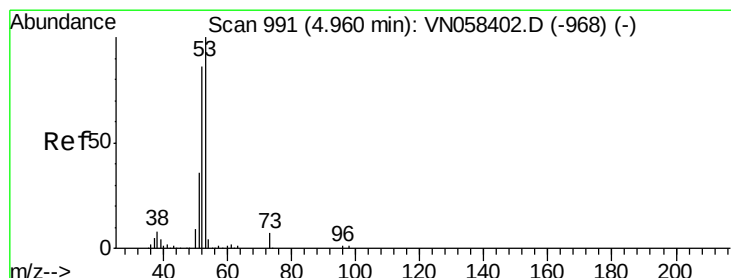
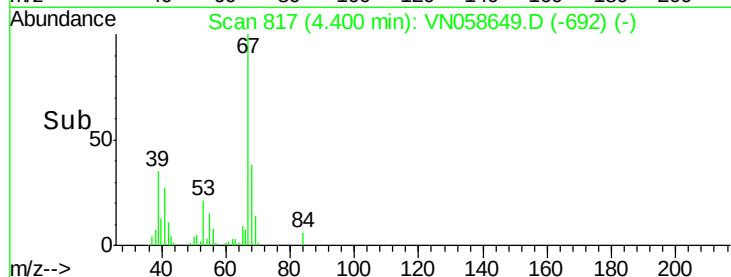
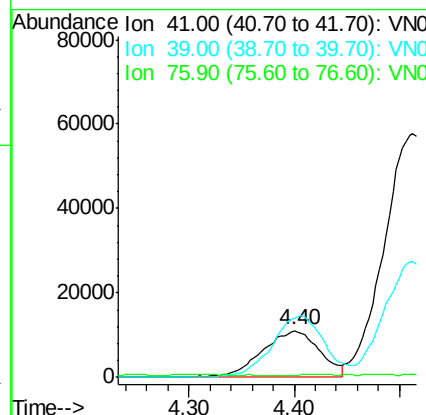
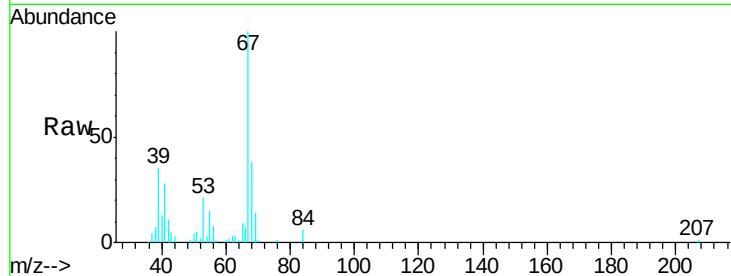




#14  
 Allyl chloride  
 Concen: 5.494 ug/l  
 RT: 4.40 min Scan# 817  
 Delta R.T. 0.10 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

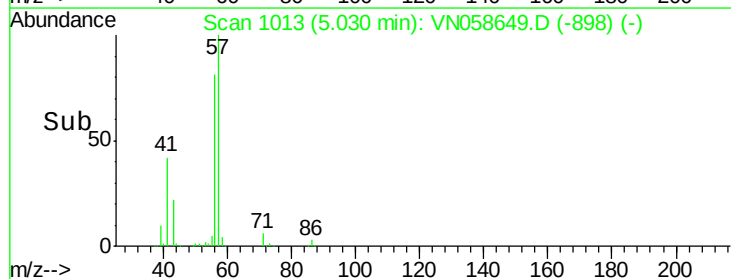
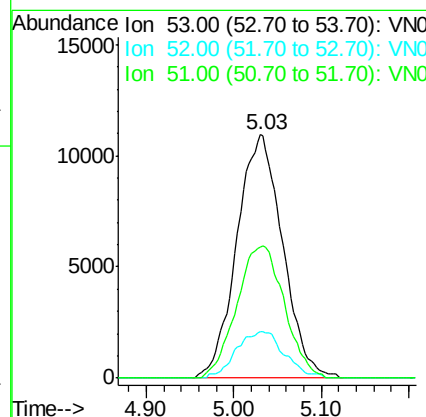
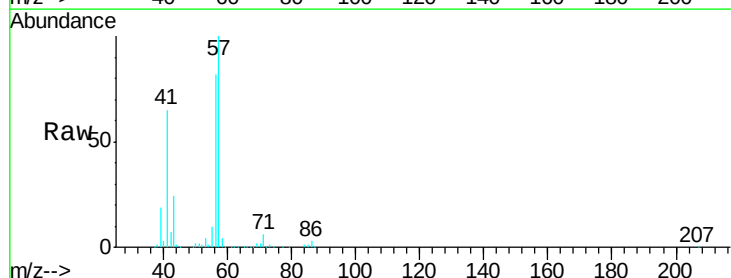
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-3

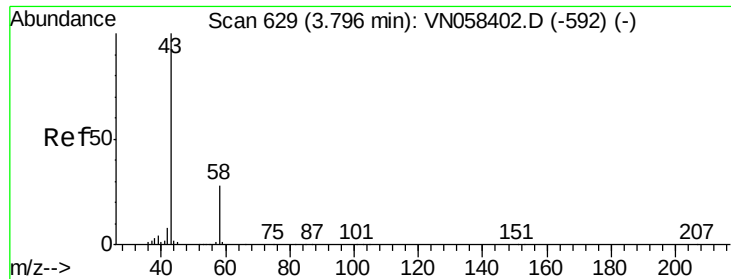
Tgt Ion: 41 Resp: 41794  
 Ion Ratio Lower Upper  
 41 100  
 39 118.4 62.3 93.5#  
 76 0.7 26.9 40.3#



#15  
 Acrylonitrile  
 Concen: 18.969 ug/l  
 RT: 5.03 min Scan# 1013  
 Delta R.T. 0.07 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

Tgt Ion: 53 Resp: 39773  
 Ion Ratio Lower Upper  
 53 100  
 52 19.8 66.6 100.0#  
 51 56.3 29.8 44.8#





#16

Acetone

Concen: 59.530 ug/l

RT: 3.78 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

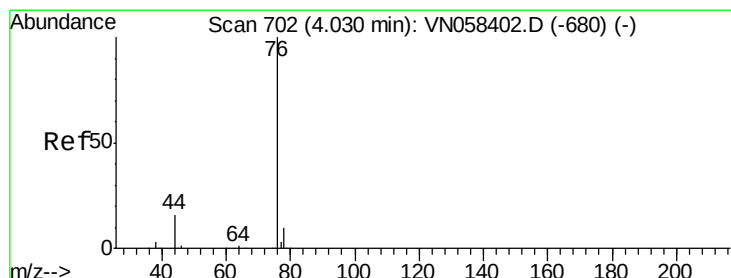
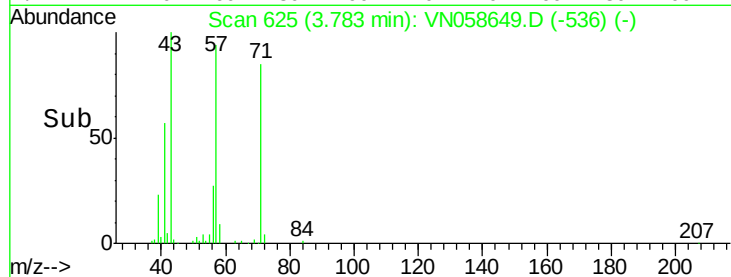
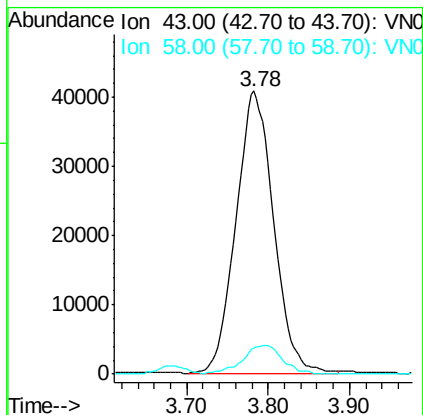
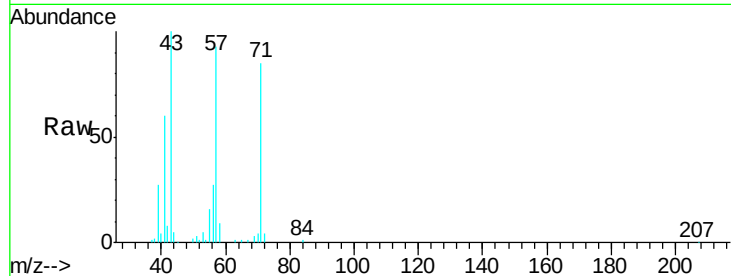
MW-3

Tgt Ion: 43 Resp: 131419

Ion Ratio Lower Upper

43 100

58 9.3 22.4 33.6#



#17

Carbon Disulfide

Concen: 0.431 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058649.D

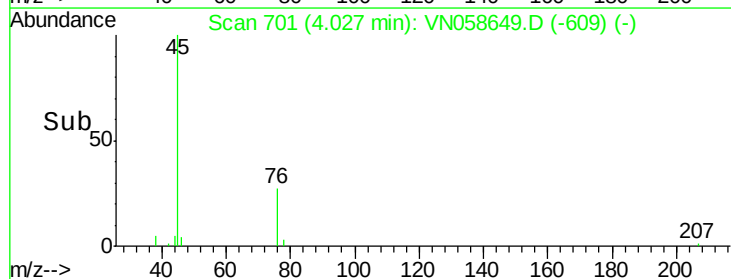
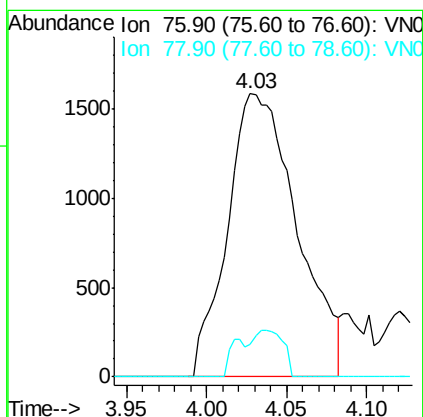
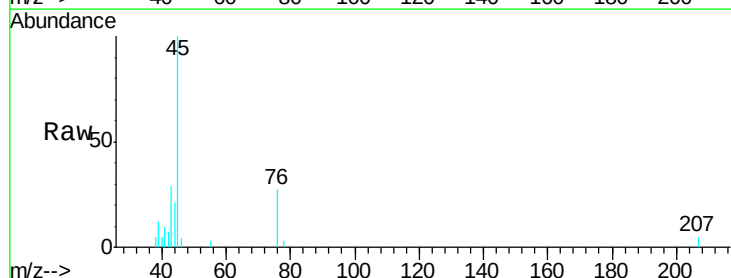
Acq: 9 Oct 2019 18:48

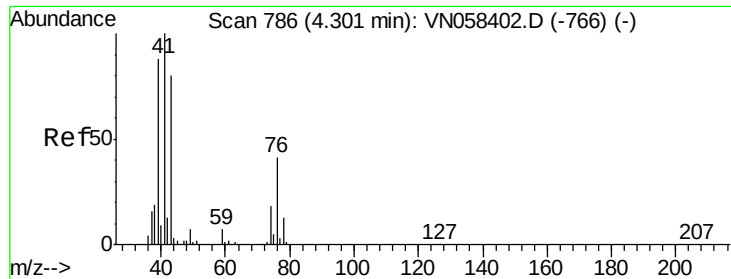
Tgt Ion: 76 Resp: 4752

Ion Ratio Lower Upper

76 100

78 11.4 7.7 11.5

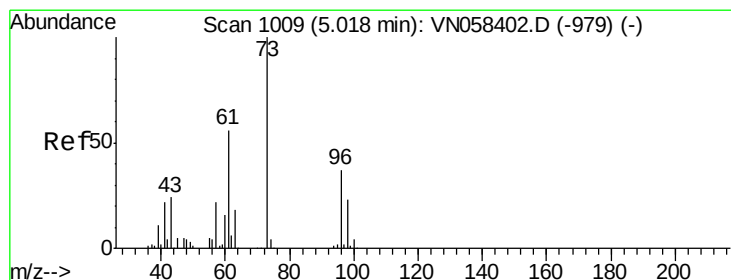
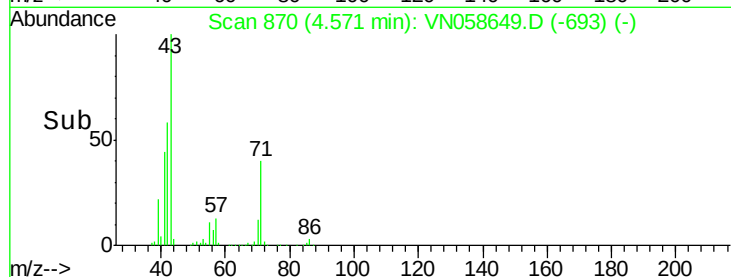
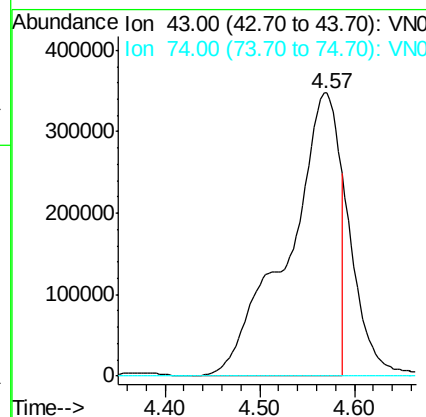
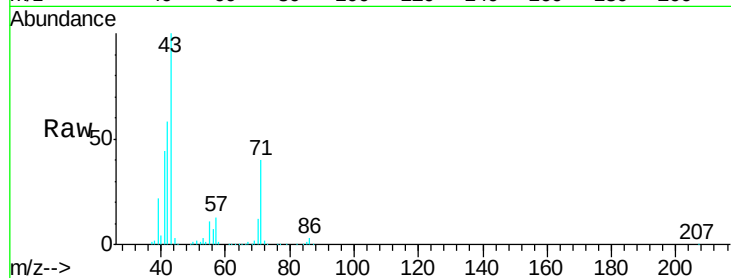




#18  
Methyl Acetate  
Concen: 233.766 ug/l  
RT: 4.57 min Scan# 870  
Delta R.T. 0.27 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

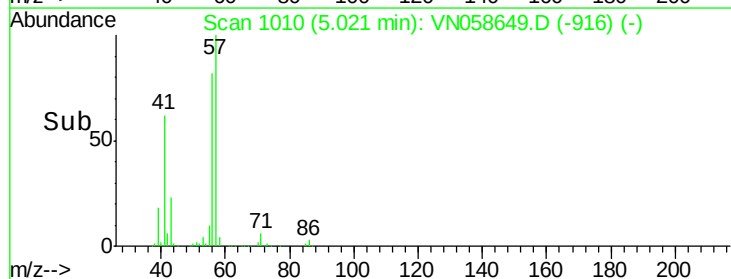
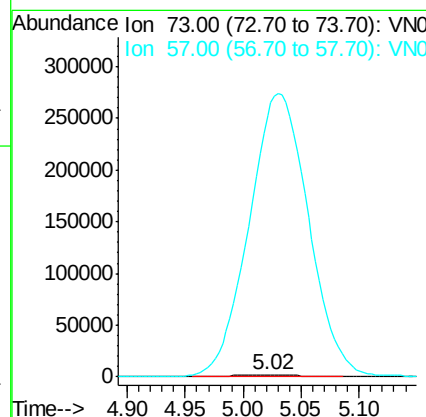
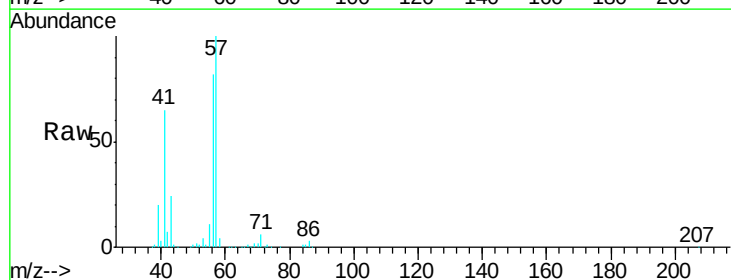
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3

Tgt Ion: 43 Resp: 1297965  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.0 27.0#

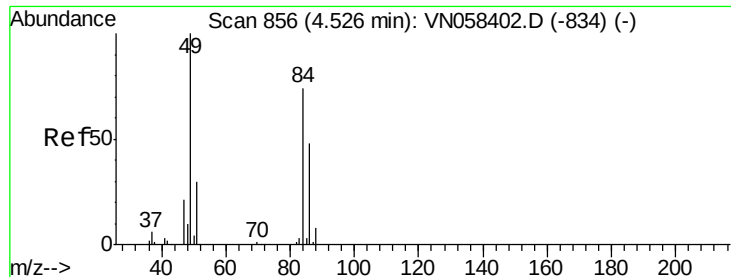


#19  
Methyl tert-butyl Ether  
Concen: 0.530 ug/l  
RT: 5.02 min Scan# 1010  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 73 Resp: 7821  
Ion Ratio Lower Upper  
73 100  
57 11752.0 17.6 26.4#



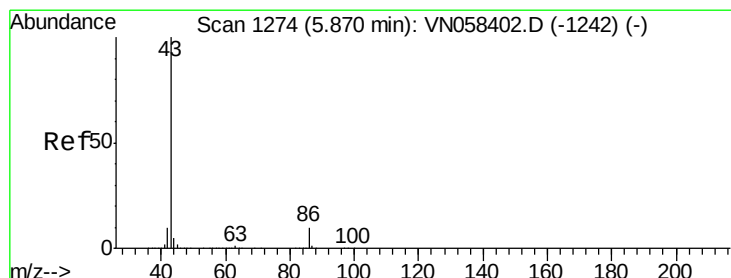
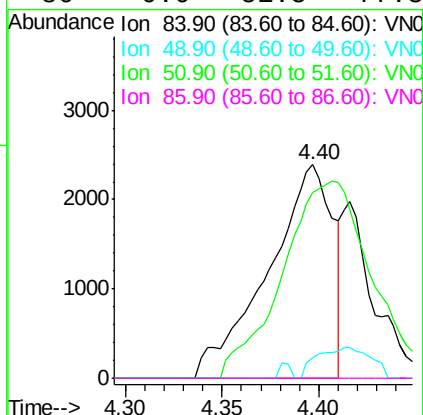
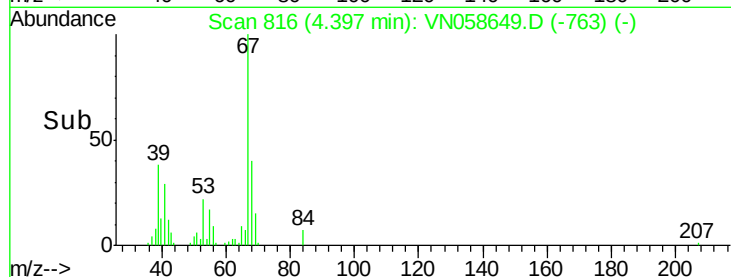
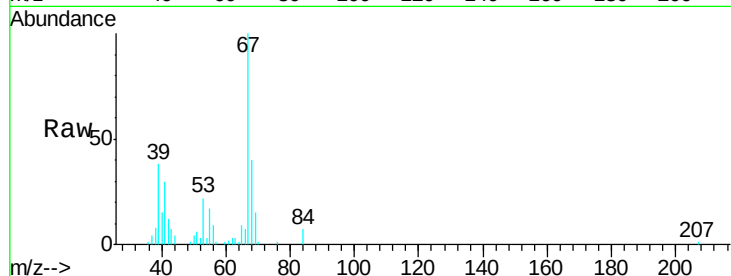




#20  
Methylene Chloride  
Concen: 1.089 ug/l  
RT: 4.40 min Scan# 816  
Delta R.T. -0.13 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

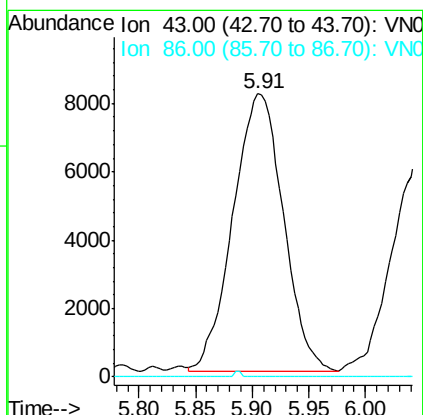
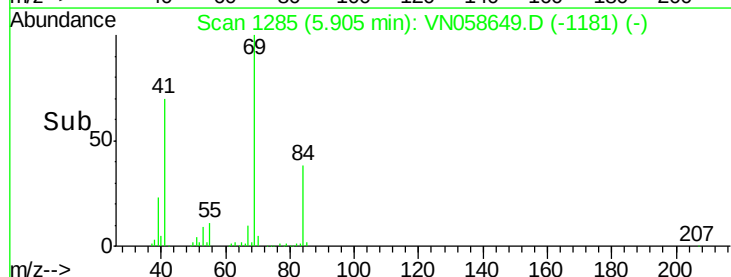
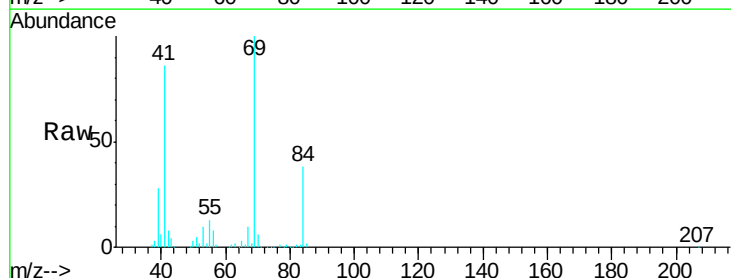
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

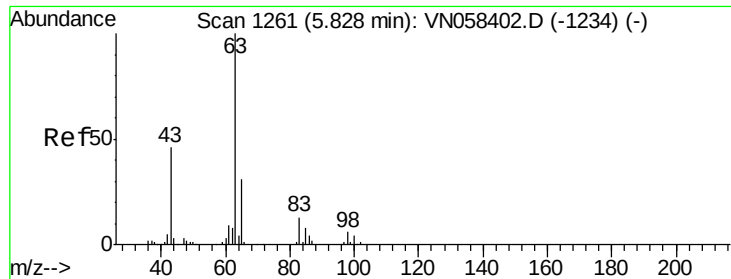
Tgt Ion: 84 Resp: 5547  
Ion Ratio Lower Upper  
84 100  
49 9.4 107.9 161.9#  
51 86.9 32.8 49.2#  
86 0.0 51.5 77.3#



#23  
Vinyl Acetate  
Concen: 2.028 ug/l  
RT: 5.91 min Scan# 1285  
Delta R.T. 0.04 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 43 Resp: 25031  
Ion Ratio Lower Upper  
43 100  
86 0.0 7.7 11.5#

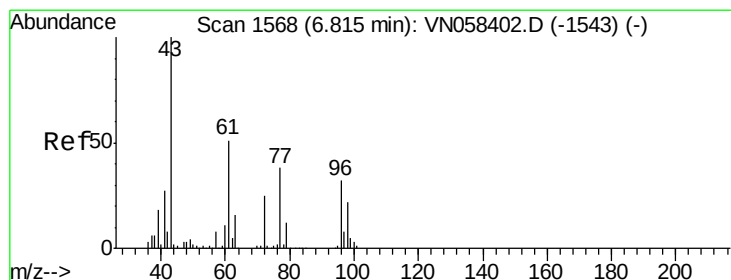
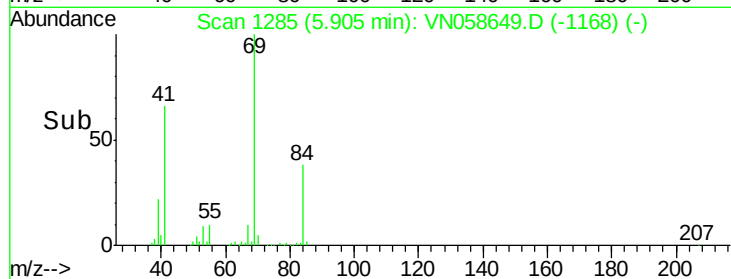
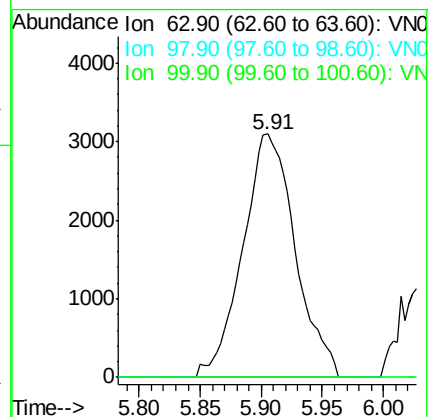
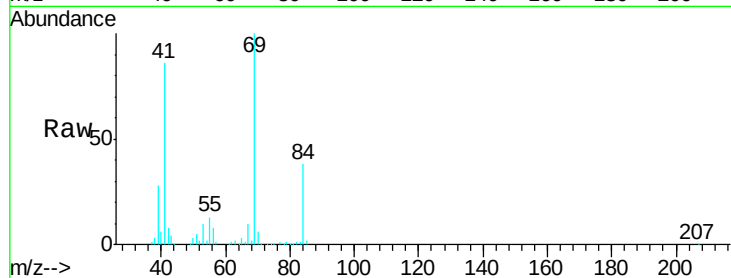




#24  
 1,1-Dichloroethane  
 Concen: 1.004 ug/l  
 RT: 5.91 min Scan# 1285  
 Delta R.T. 0.08 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

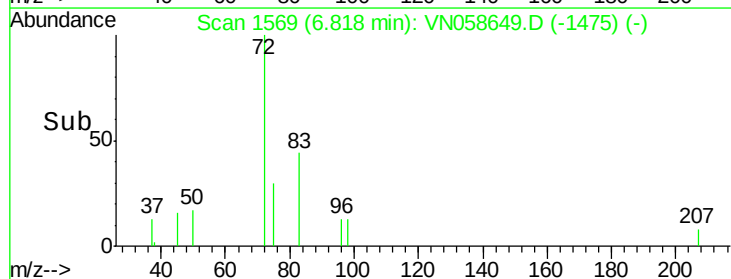
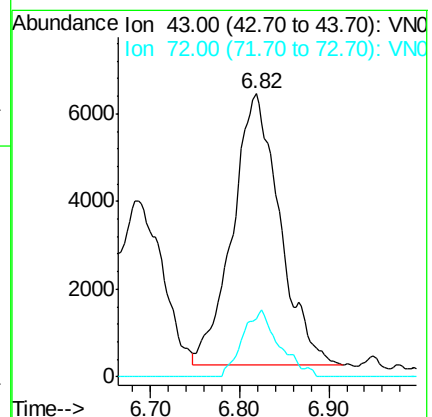
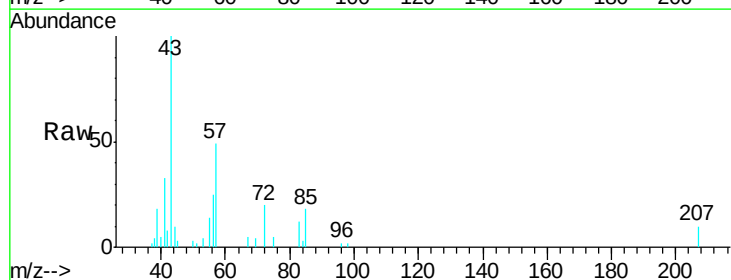
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3

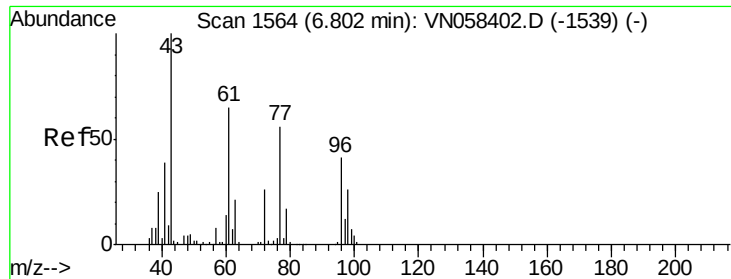
Tgt Ion: 63 Resp: 9249  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 3.0 9.0#  
 100 0.0 2.0 5.8#



#25  
 2-Butanone  
 Concen: 7.460 ug/l  
 RT: 6.82 min Scan# 1569  
 Delta R.T. 0.00 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

Tgt Ion: 43 Resp: 22610  
 Ion Ratio Lower Upper  
 43 100  
 72 21.3 20.2 30.4

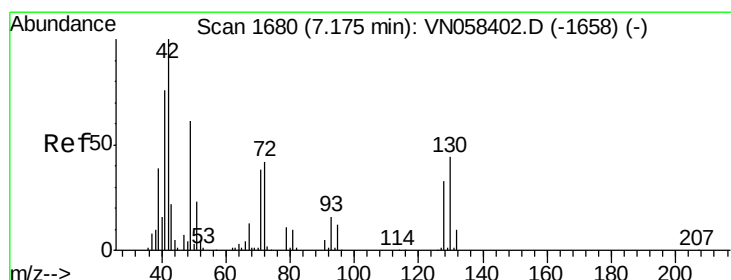
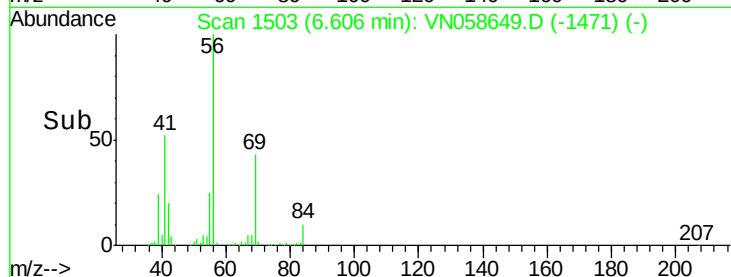
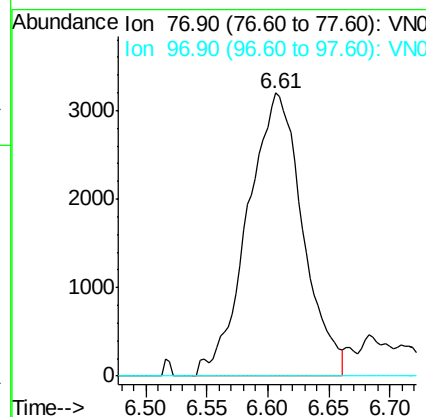
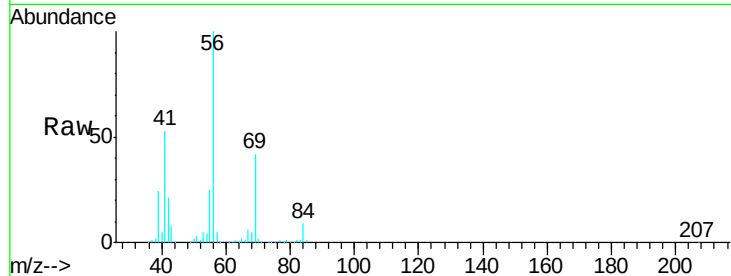




#26  
 2,2-Dichloropropane  
 Concen: 1.329 ug/l  
 RT: 6.61 min Scan# 1503  
 Delta R.T. -0.20 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

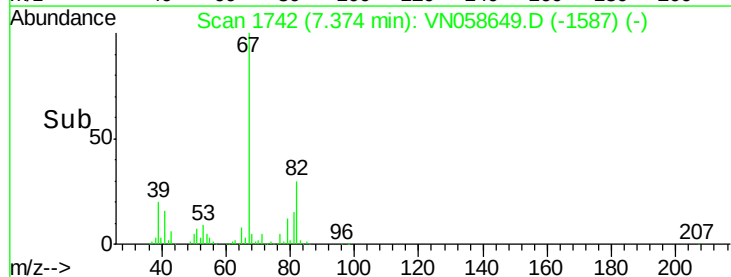
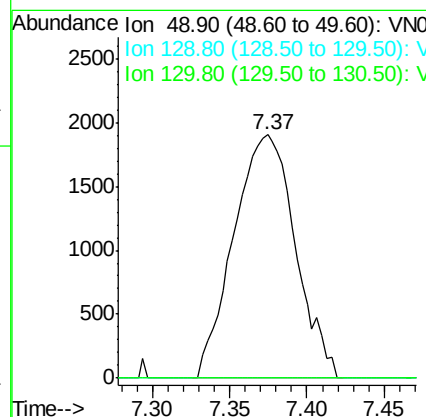
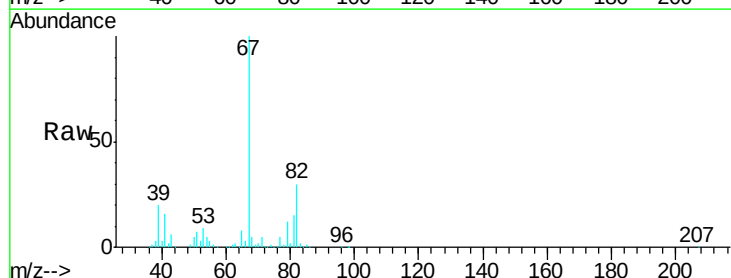
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3

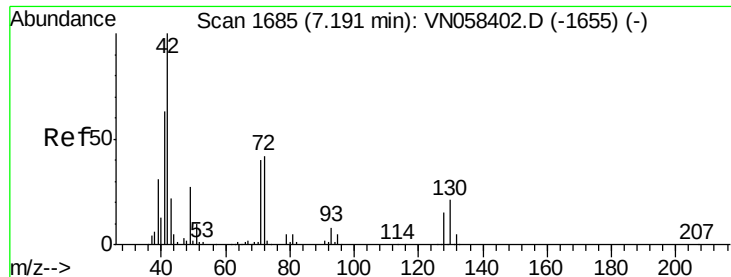
Tgt Ion: 77 Resp: 10064  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 10.9 32.6#



#28  
 Bromochloromethane  
 Concen: 1.431 ug/l  
 RT: 7.37 min Scan# 1742  
 Delta R.T. 0.20 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

Tgt Ion: 49 Resp: 5272  
 Ion Ratio Lower Upper  
 49 100  
 129 0.0 0.0 3.4  
 130 0.0 56.3 84.5#

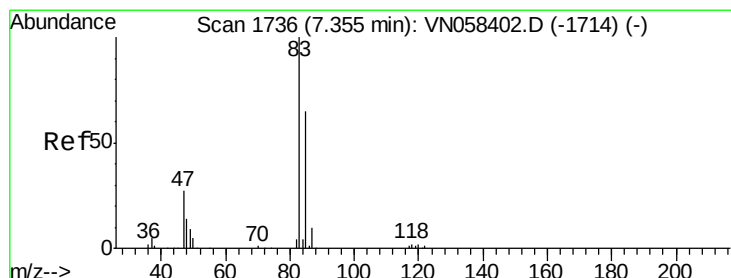
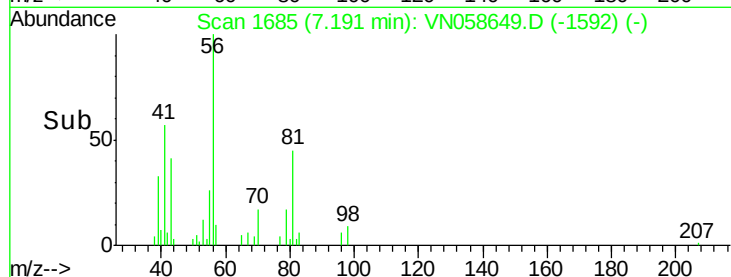
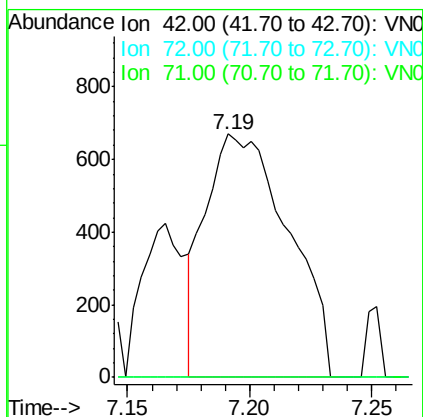
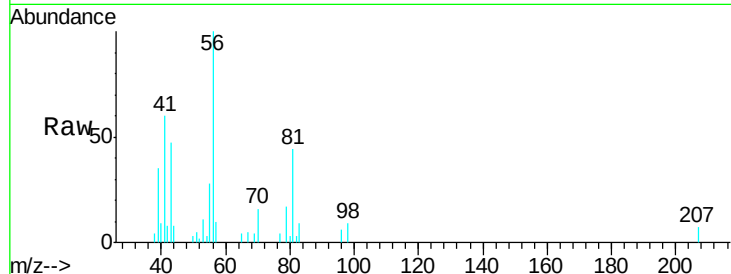




#29  
Tetrahydrofuran  
Concen: 0.821 ug/l  
RT: 7.19 min Scan# 1685  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

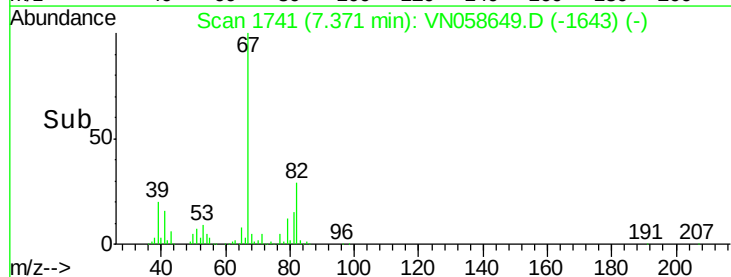
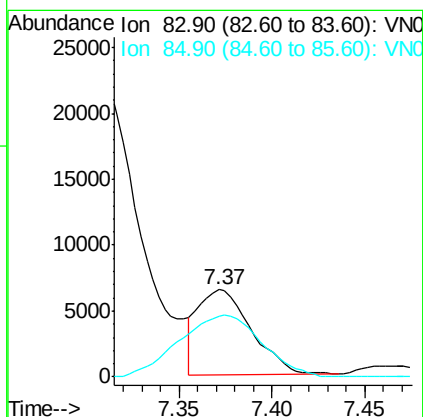
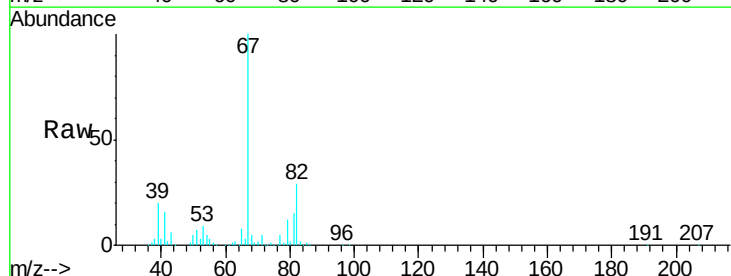
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

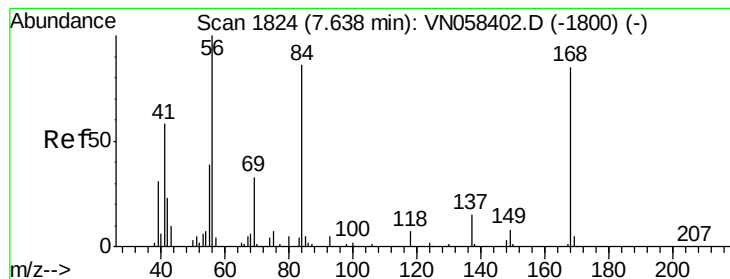
Tgt Ion: 42 Resp: 1580  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.7 50.5#  
71 0.0 31.8 47.6#



#30  
Chloroform  
Concen: 1.380 ug/l  
RT: 7.37 min Scan# 1741  
Delta R.T. 0.02 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 83 Resp: 12881  
Ion Ratio Lower Upper  
83 100  
85 71.4 52.0 78.0





#31

Cyclohexane

Concen: 31.682 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. -0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

MW-3

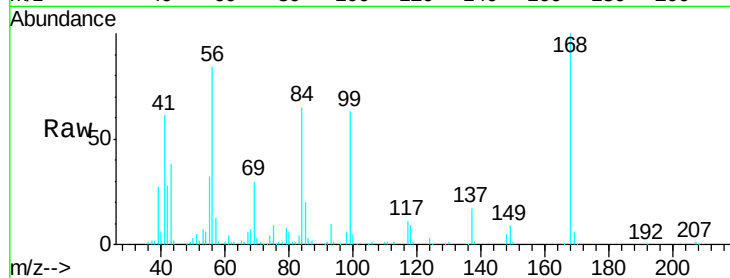
Tgt Ion: 56 Resp: 283954

Ion Ratio Lower Upper

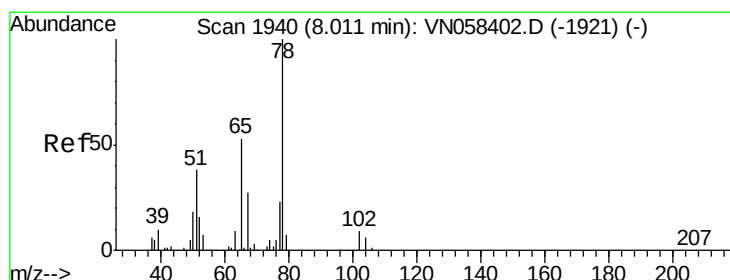
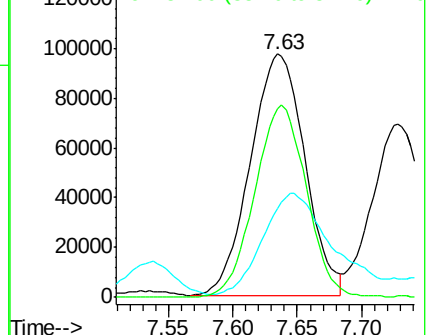
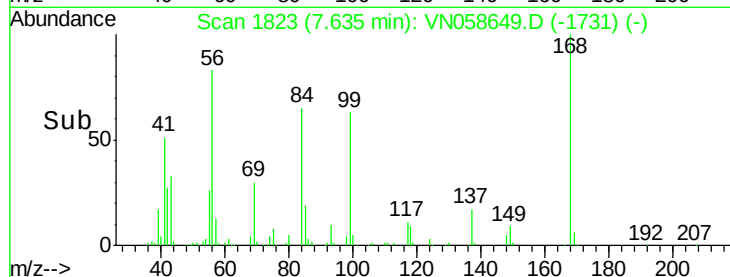
56 100

69 32.9 26.2 39.4

84 78.3 67.6 101.4



Abundance Ion 56.00 (55.70 to 56.70): VN058649.D (-1731) (-)



#33

1,2-Dichloroethane-d4

Concen: 45.707 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058649.D

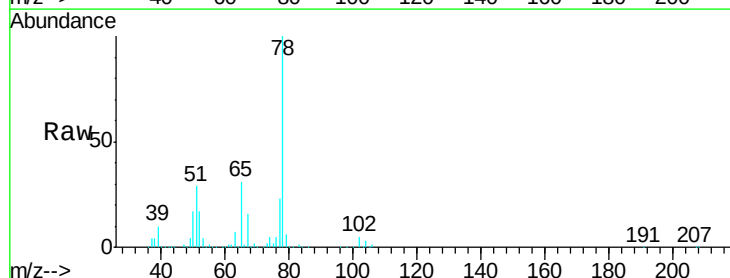
Acq: 9 Oct 2019 18:48

Tgt Ion: 65 Resp: 295997

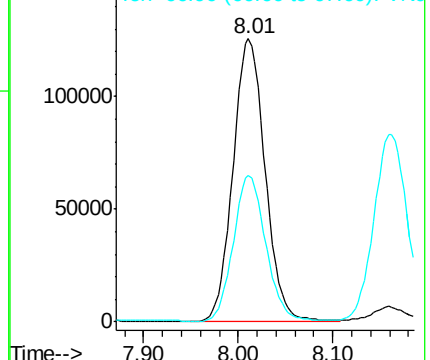
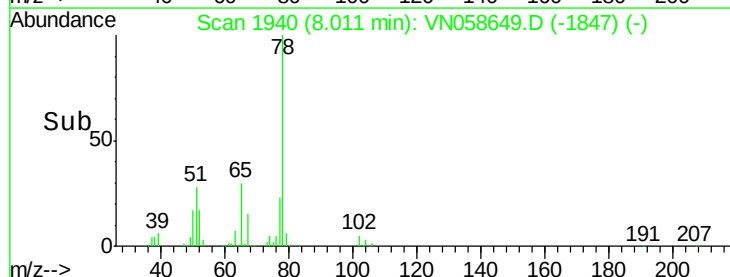
Ion Ratio Lower Upper

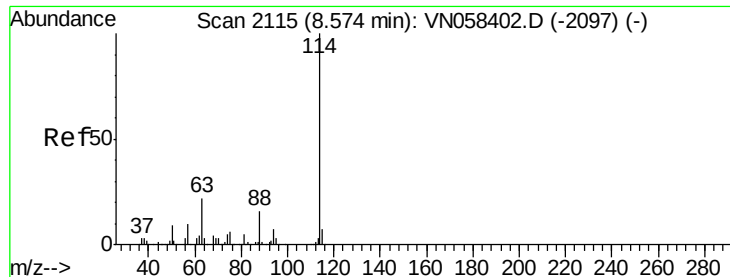
65 100

67 52.8 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058649.D (-1847) (-)

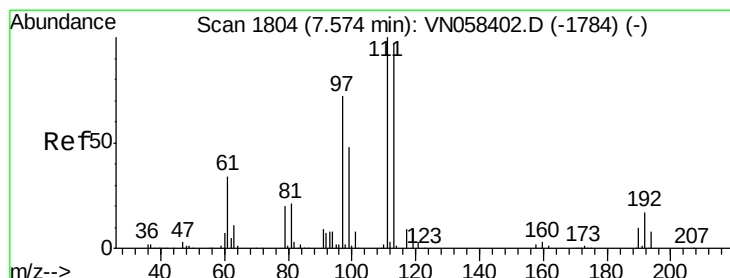
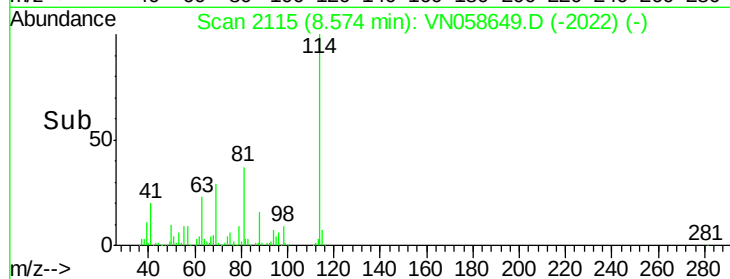
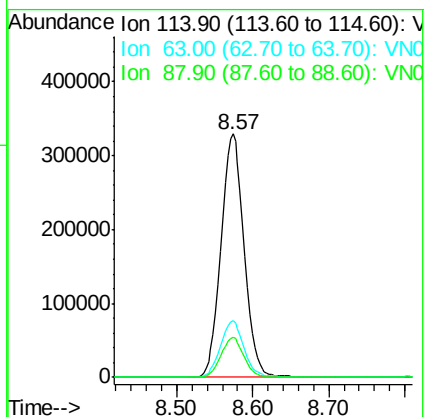
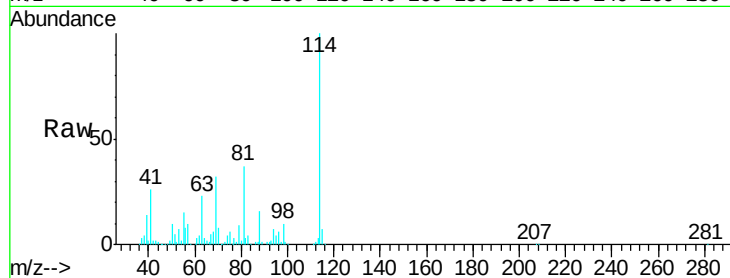




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

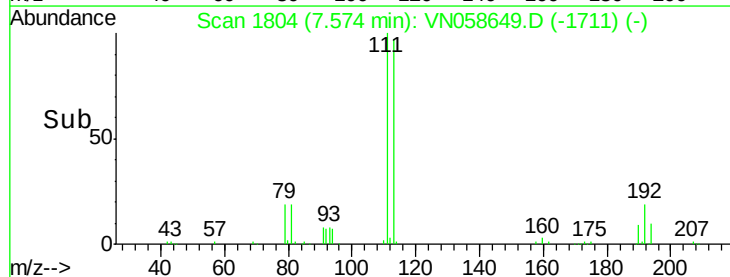
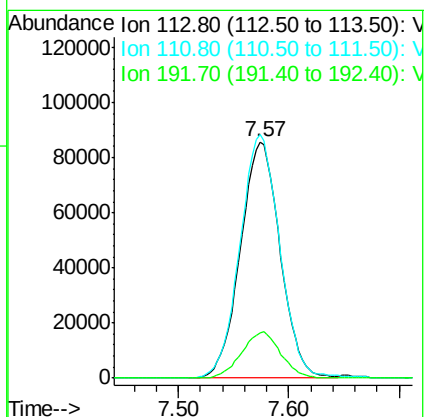
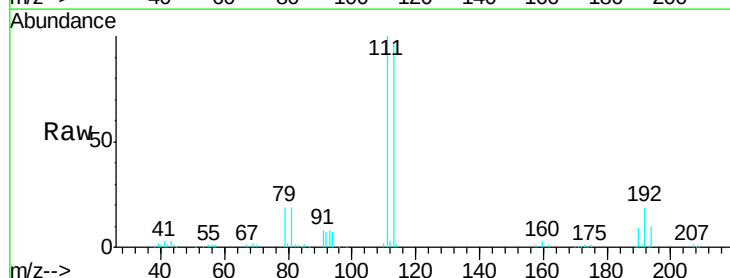
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3

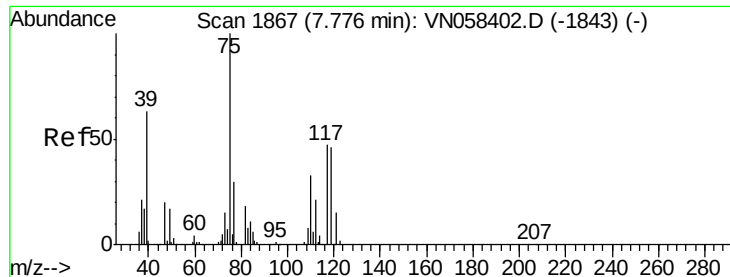
Tgt Ion:114 Resp: 696307  
 Ion Ratio Lower Upper  
 114 100  
 63 23.1 0.0 45.0  
 88 16.4 0.0 32.2



#35  
 Dibromofluoromethane  
 Concen: 50.001 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. 0.00 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

Tgt Ion:113 Resp: 213385  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 83.4 125.2  
 192 19.3 14.9 22.3

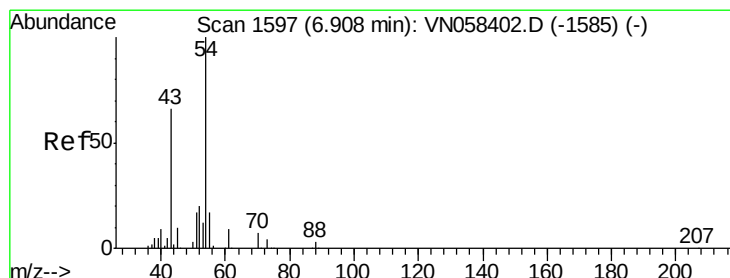
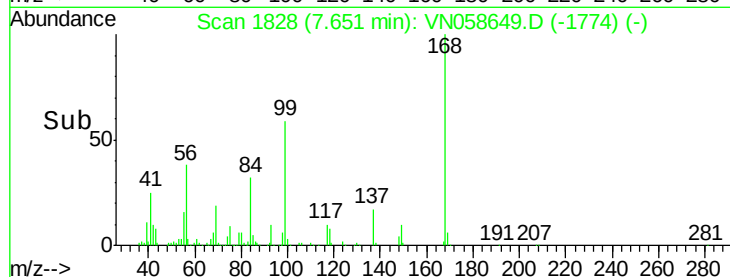
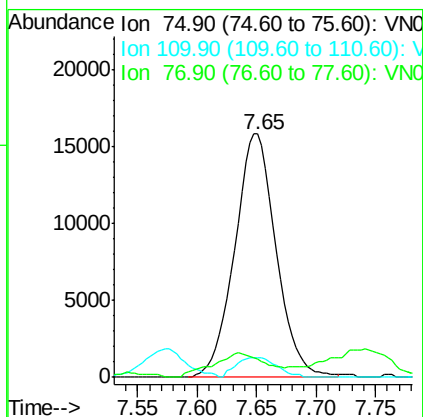
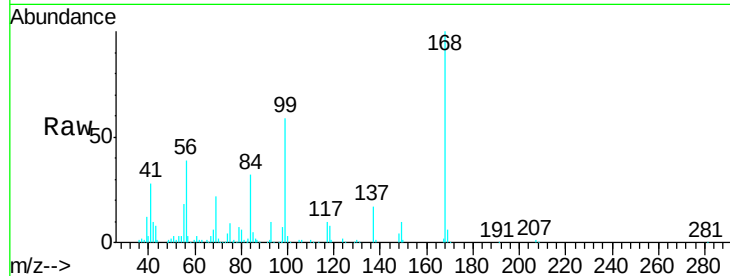




#36  
 1,1-Dichloropropene  
 Concen: 5.717 ug/l  
 RT: 7.65 min Scan# 1828  
 Delta R.T. -0.13 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

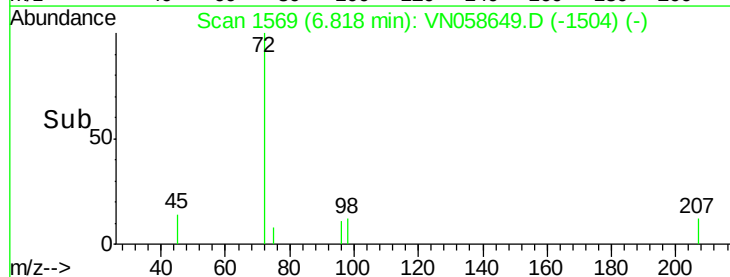
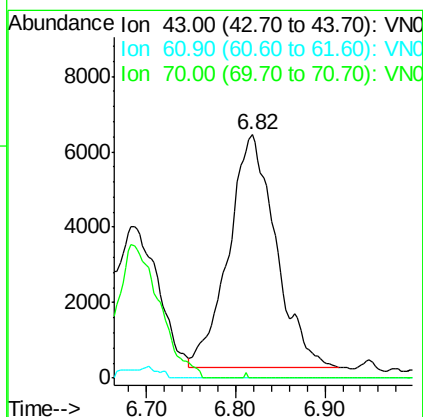
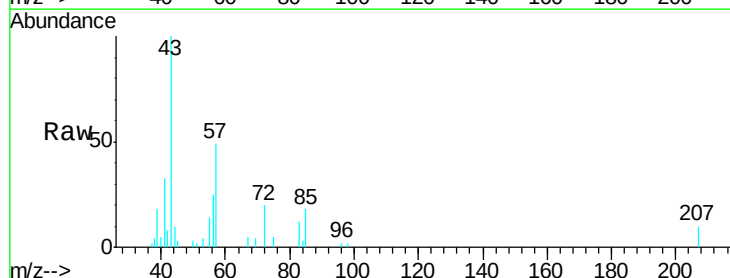
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3

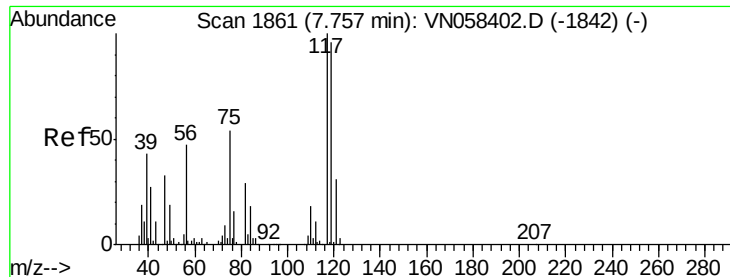
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.0   | 16.4  | 49.2# |
| 77      | 0.0   | 24.3  | 36.5# |



#37  
 Ethyl Acetate  
 Concen: 4.005 ug/l  
 RT: 6.82 min Scan# 1569  
 Delta R.T. -0.09 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 10.5  | 15.7# |
| 70      | 0.0   | 7.8   | 11.6# |





#38

Carbon Tetrachloride

Concen: 7.450 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

MW-3

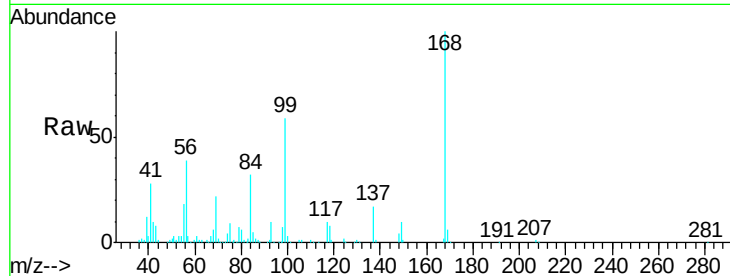
Tgt Ion:117 Resp: 44776

Ion Ratio Lower Upper

117 100

119 5.1 76.6 115.0#

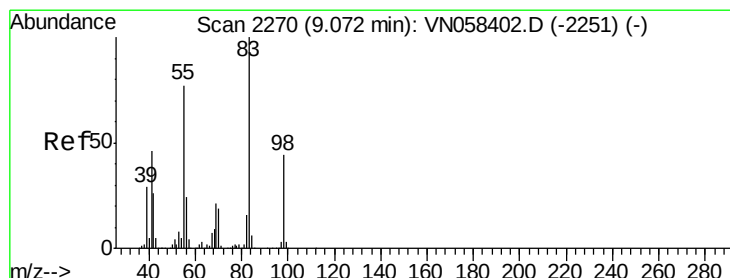
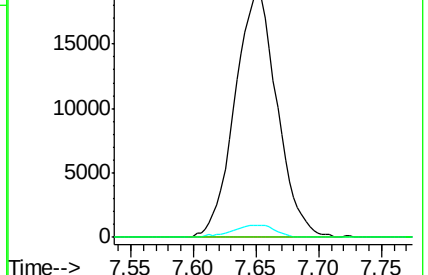
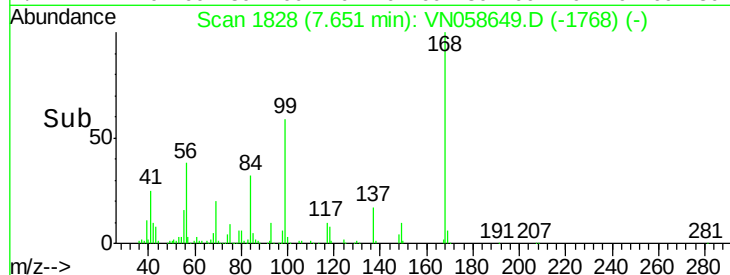
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 30.381 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. -0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

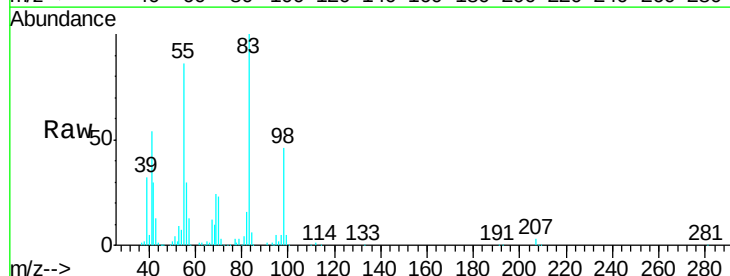
Tgt Ion: 83 Resp: 236219

Ion Ratio Lower Upper

83 100

55 86.0 61.8 92.6

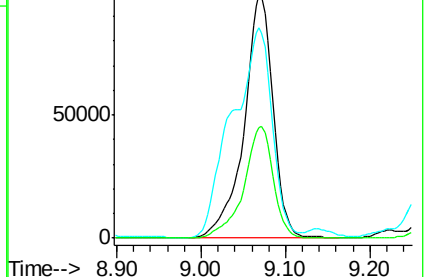
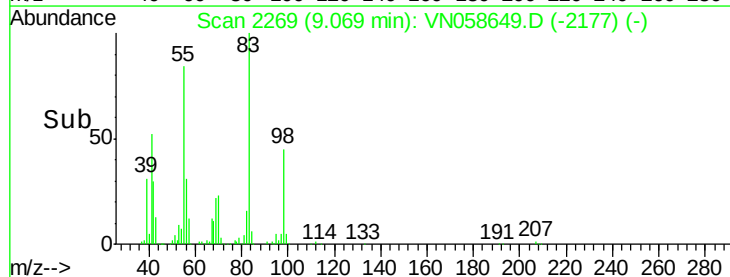
98 45.6 35.4 53.0



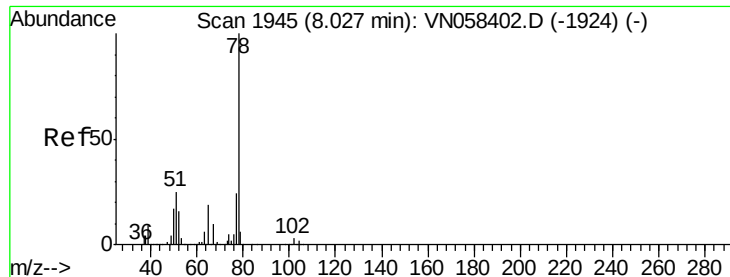
Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0







#40

Benzene

Concen: 83.210 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampleId :

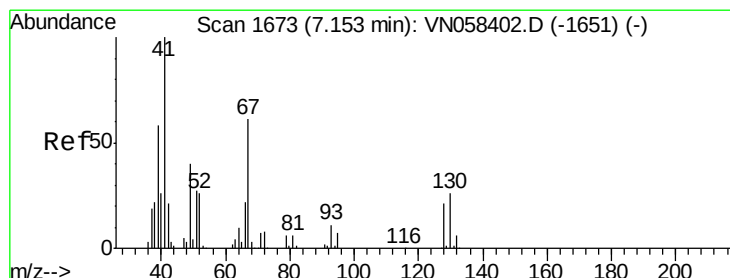
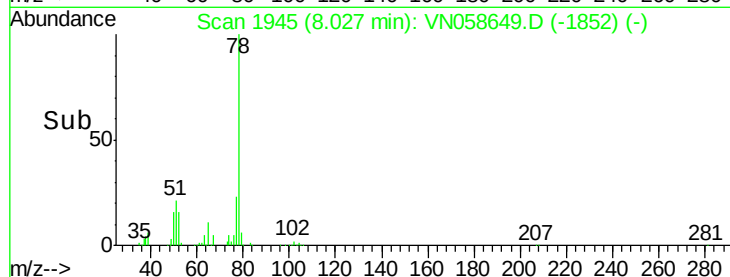
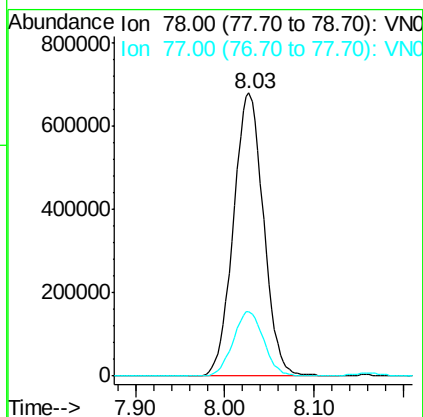
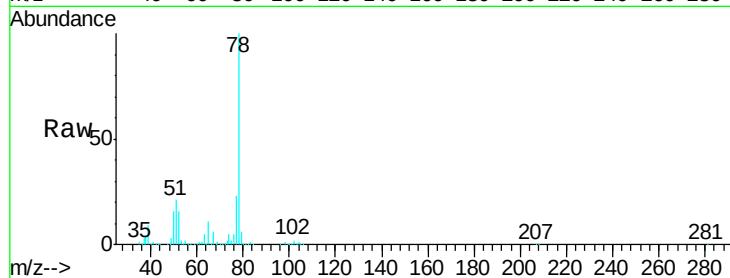
MW-3

Tgt Ion: 78 Resp: 1592501

Ion Ratio Lower Upper

78 100

77 22.8 18.9 28.3



#41

Methacrylonitrile

Concen: 5.966 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.04 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Tgt Ion: 41 Resp: 15493

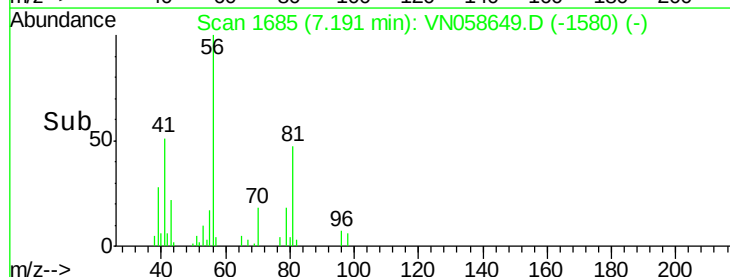
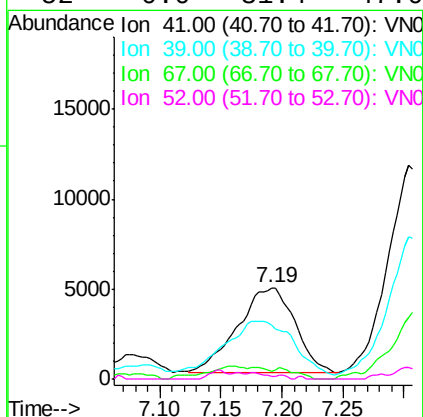
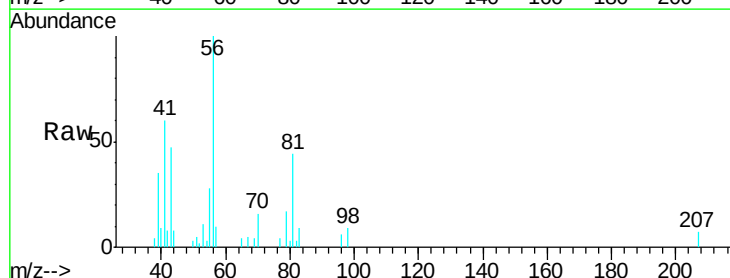
Ion Ratio Lower Upper

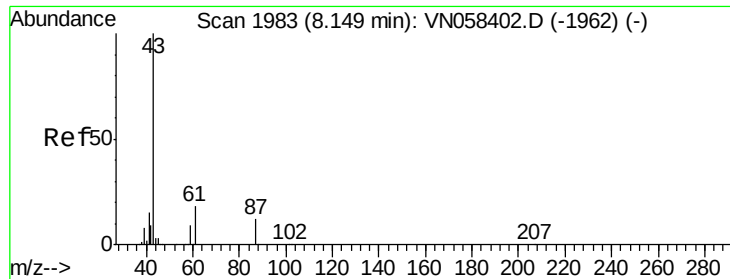
41 100

39 74.4 50.2 75.4

67 0.0 70.2 105.4#

52 0.0 31.4 47.0#

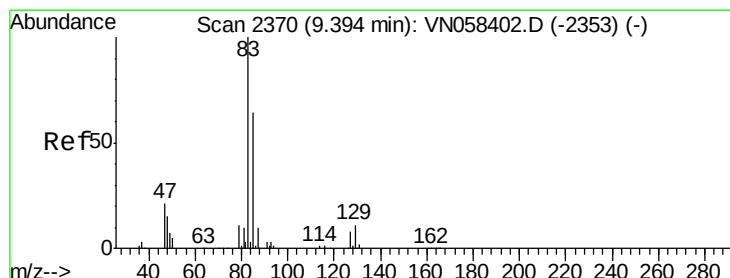
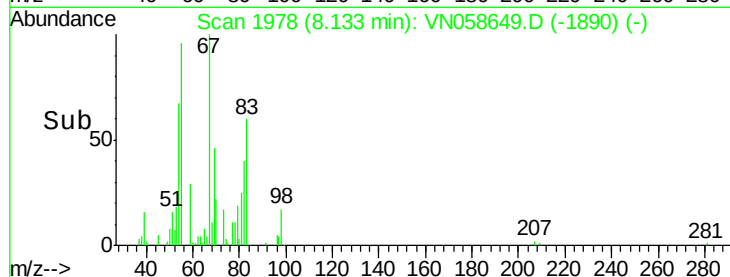
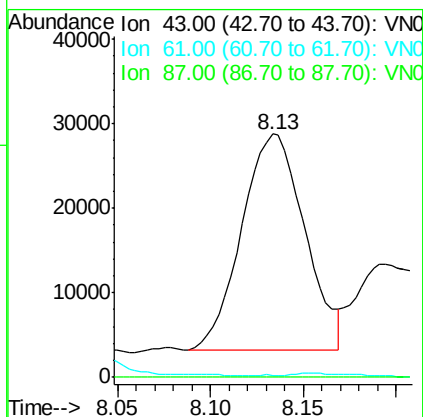
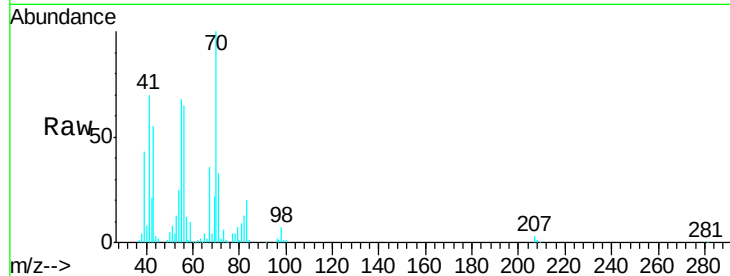




#43  
Isopropyl Acetate  
Concen: 5.712 ug/l  
RT: 8.13 min Scan# 1978  
Delta R.T. -0.02 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

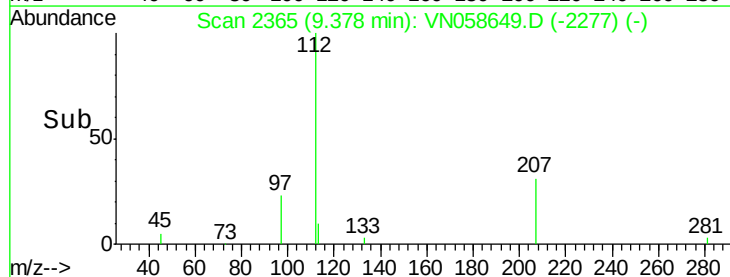
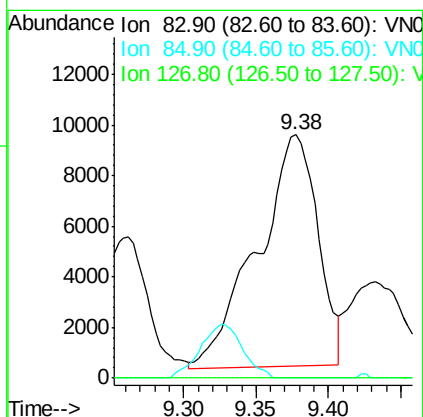
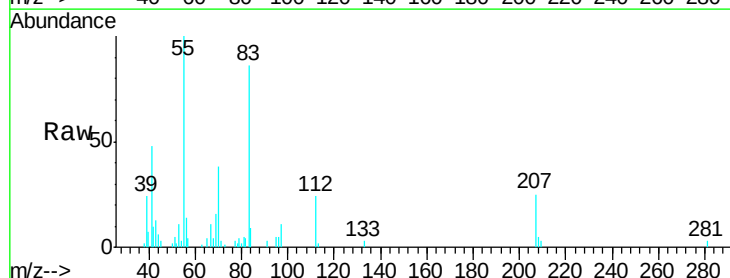
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

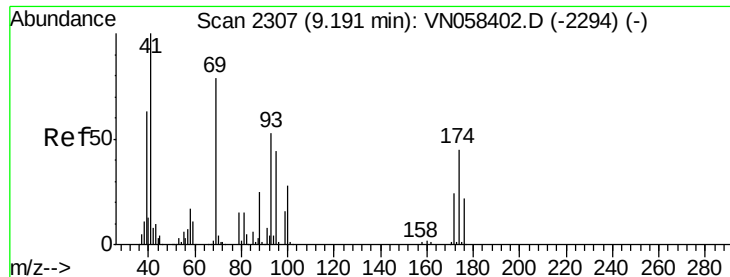
Tgt Ion: 43 Resp: 60635  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.8 22.2#  
87 0.0 9.7 14.5#



#47  
Bromodichloromethane  
Concen: 4.301 ug/l  
RT: 9.38 min Scan# 2365  
Delta R.T. -0.02 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 83 Resp: 26488  
Ion Ratio Lower Upper  
83 100  
85 0.0 51.2 76.8#  
127 0.0 6.3 9.5#





#48

Methyl methacrylate

Concen: 0.953 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.03 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

MW-3

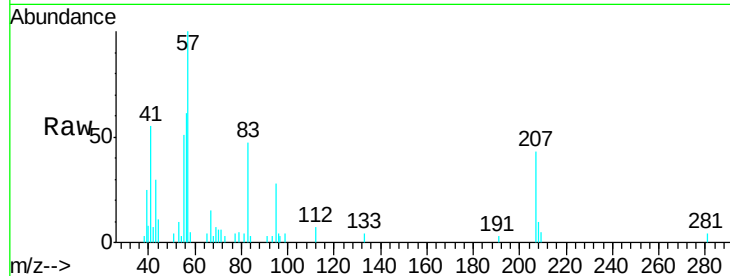
Tgt Ion: 41 Resp: 4606

Ion Ratio Lower Upper

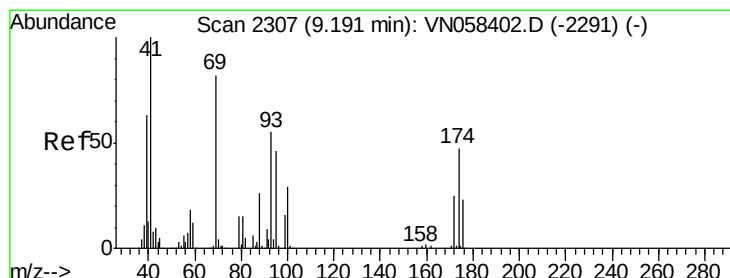
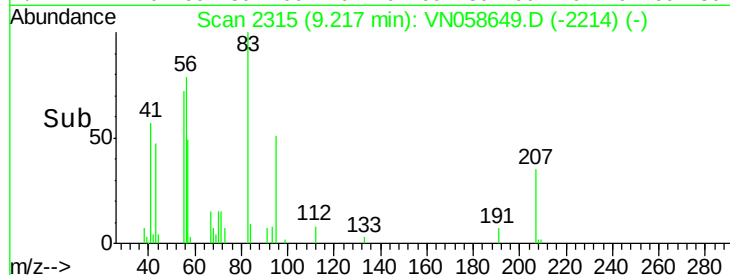
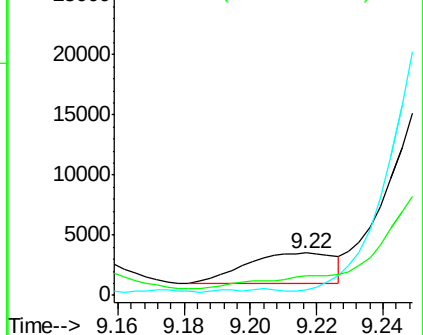
41 100

69 0.0 64.7 97.1#

39 0.0 52.9 79.3#



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



#49

1,4-Dioxane

Concen: 0.449 ug/l

RT: 9.28 min Scan# 2336

Delta R.T. 0.09 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

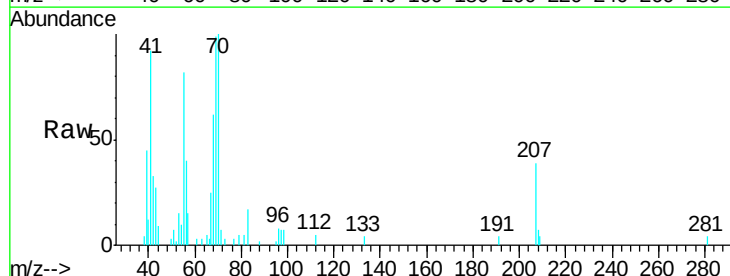
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

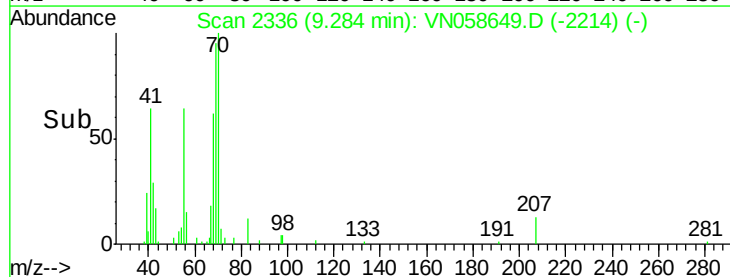
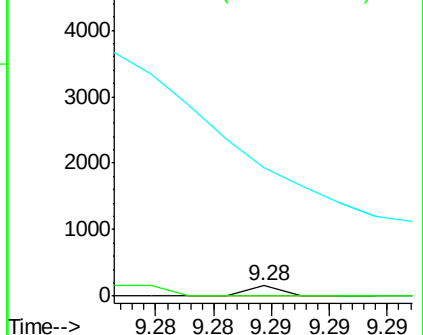
88 100

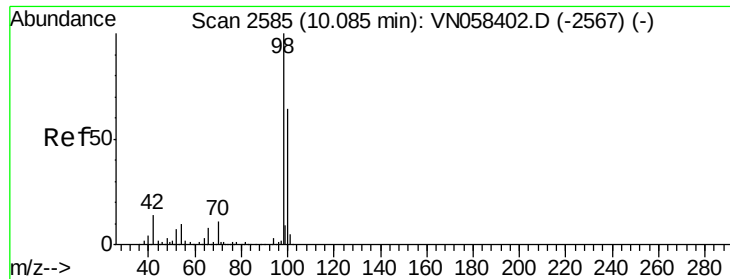
43 0.0 31.1 46.7#

58 0.0 58.1 87.1#



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

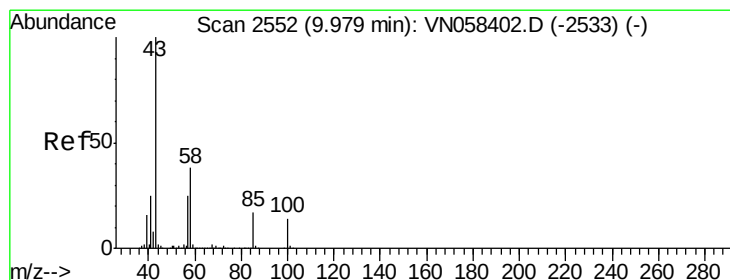
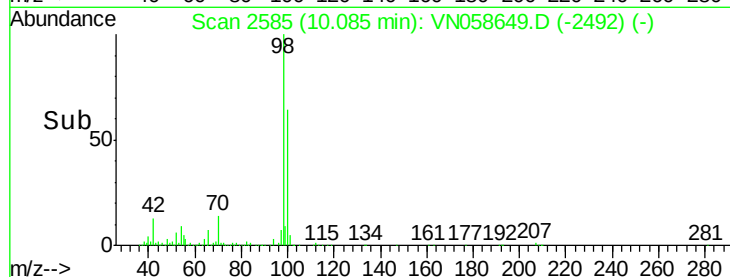
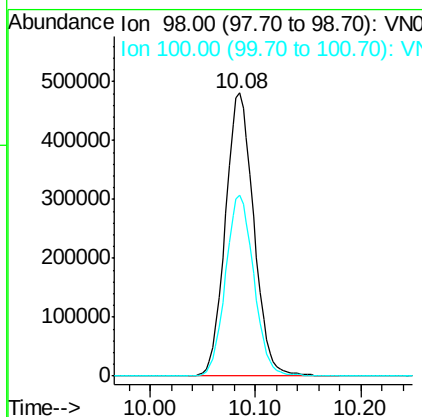
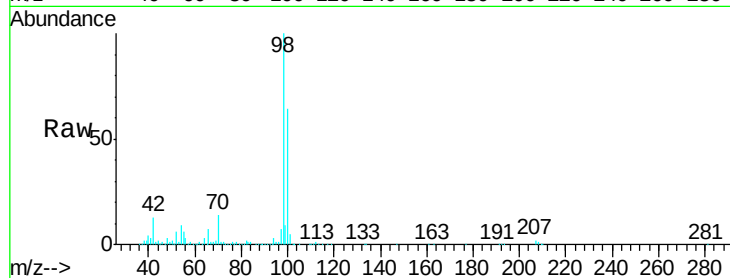




#50  
Toluene-d8  
Concen: 53.250 ug/l  
RT: 10.08 min Scan# 2585  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

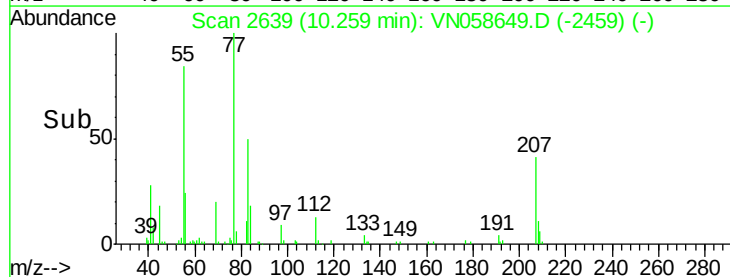
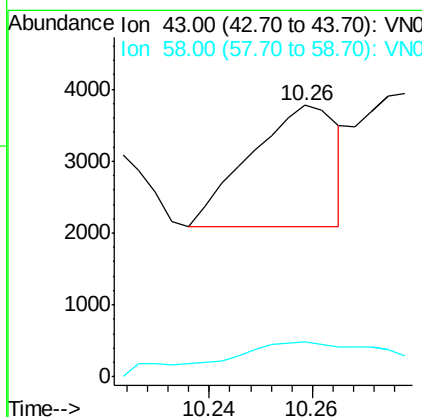
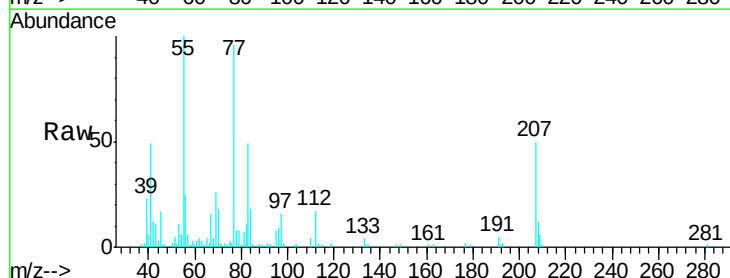
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

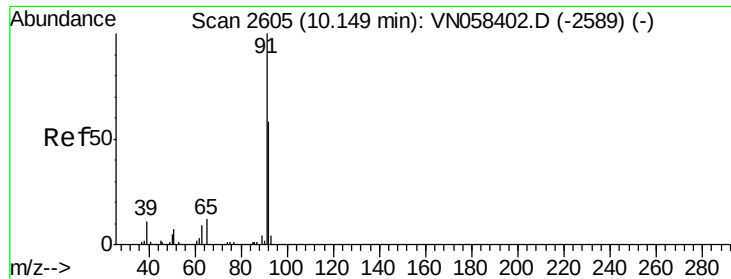
Tgt Ion: 98 Resp: 890224  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.0 76.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.364 ug/l  
RT: 10.26 min Scan# 2639  
Delta R.T. 0.28 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 43 Resp: 1987  
Ion Ratio Lower Upper  
43 100  
58 39.5 30.2 45.2





#52

Toluene

Concen: 14.544 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampleId :

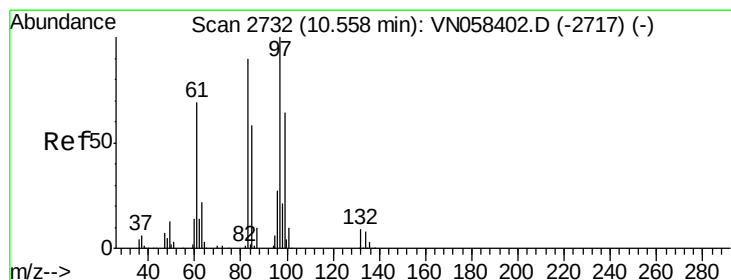
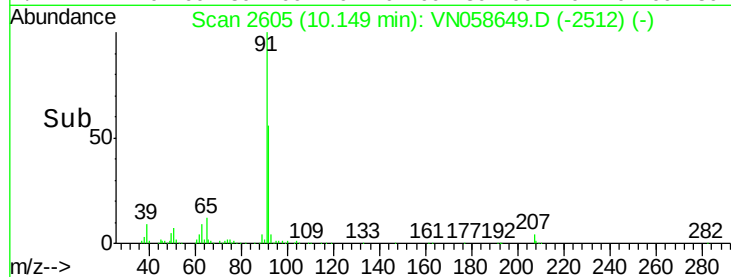
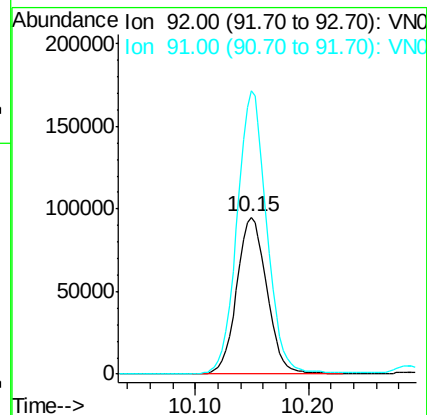
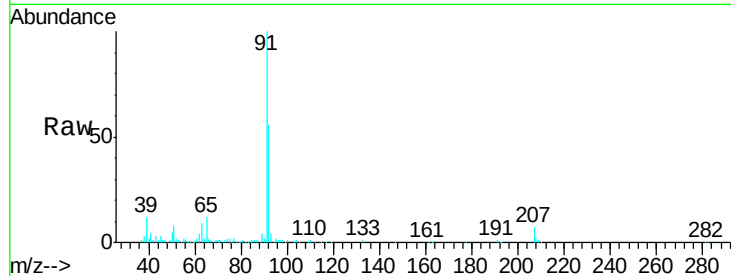
MW-3

Tgt Ion: 92 Resp: 175198

Ion Ratio Lower Upper

92 100

91 176.7 140.2 210.4



#55

1,1,2-Trichloroethane

Concen: 14.730 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. -0.03 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Tgt Ion: 97 Resp: 64610

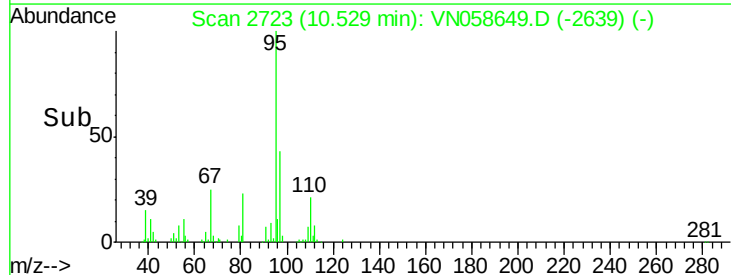
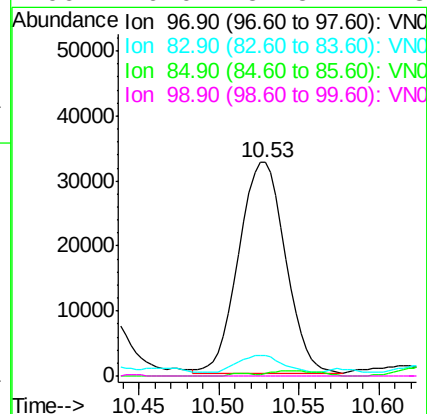
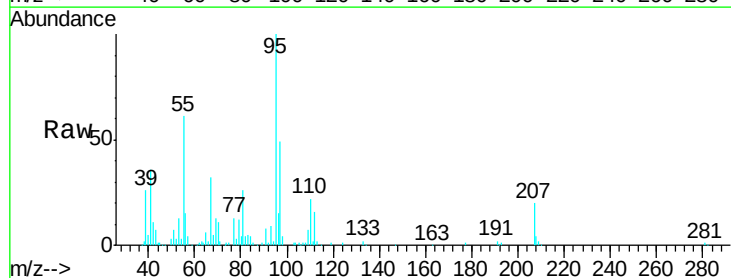
Ion Ratio Lower Upper

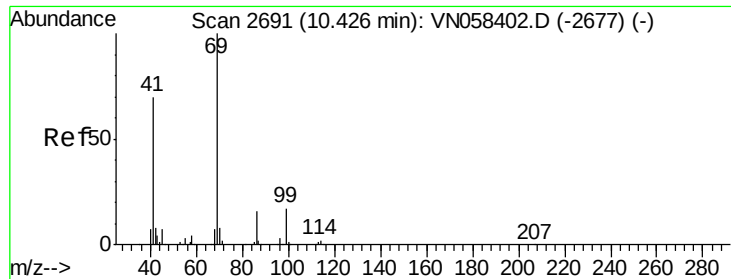
97 100

83 7.7 71.8 107.6#

85 1.1 46.6 69.8#

99 0.0 51.5 77.3#





#56

Ethyl methacrylate

Concen: 0.620 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.01 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

MW-3

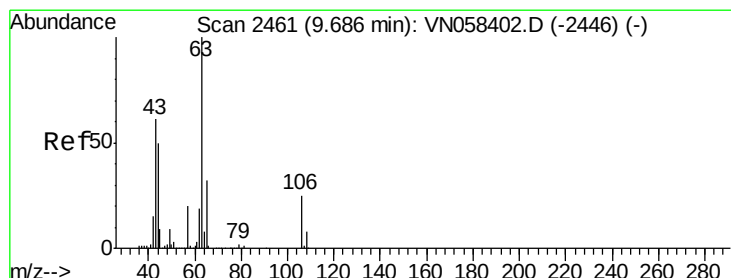
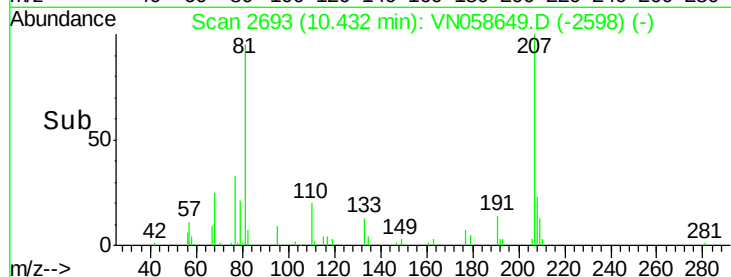
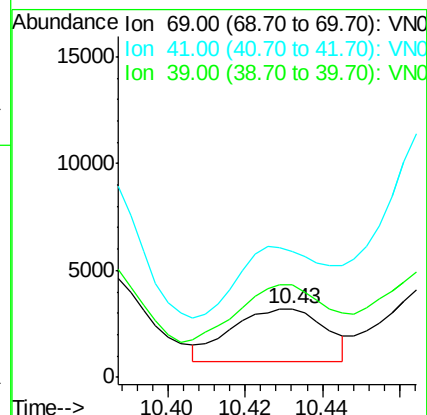
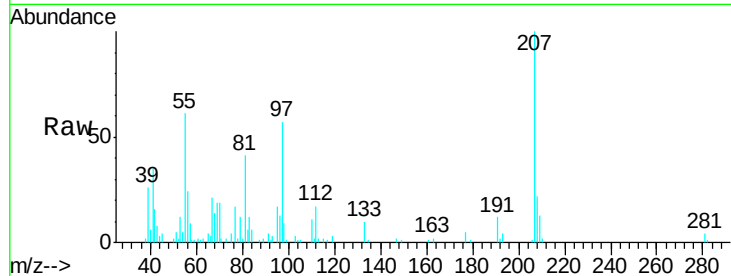
Tgt Ion: 69 Resp: 4128

Ion Ratio Lower Upper

69 100

41 129.0 56.3 84.5#

39 106.7 35.8 53.6#



#58

2-Chloroethyl Vinyl ether

Concen: 1.095 ug/l

RT: 9.66 min Scan# 2454

Delta R.T. -0.02 min

Lab File: VN058649.D

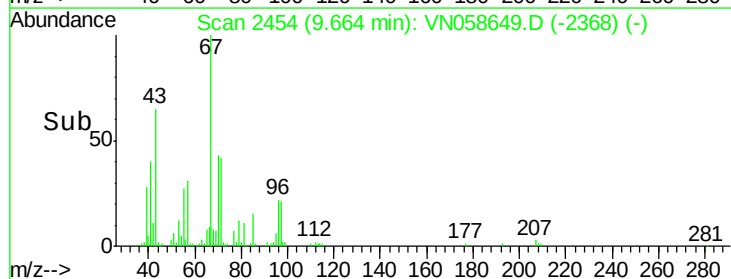
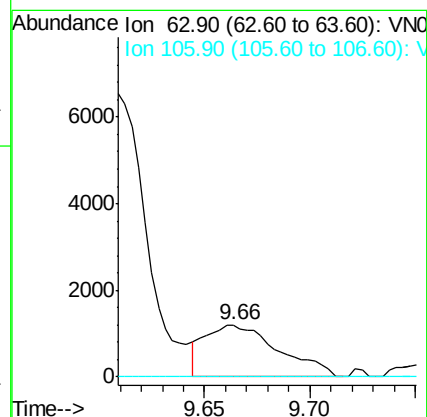
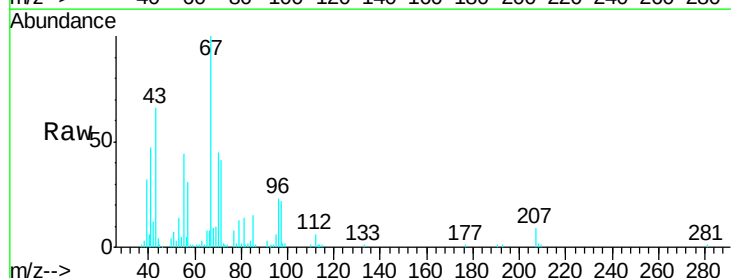
Acq: 9 Oct 2019 18:48

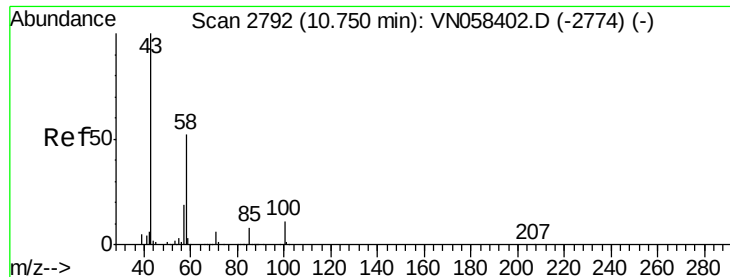
Tgt Ion: 63 Resp: 2907

Ion Ratio Lower Upper

63 100

106 0.0 20.3 30.5#

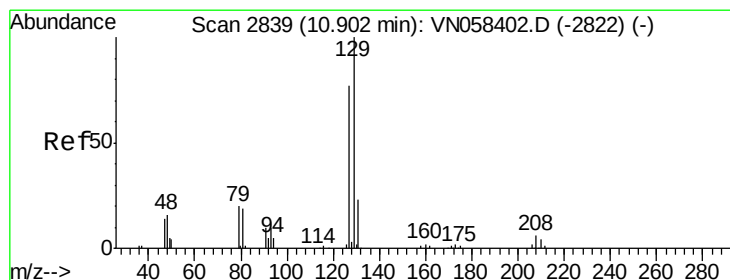
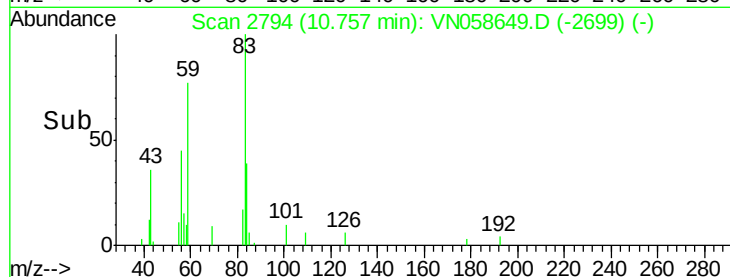
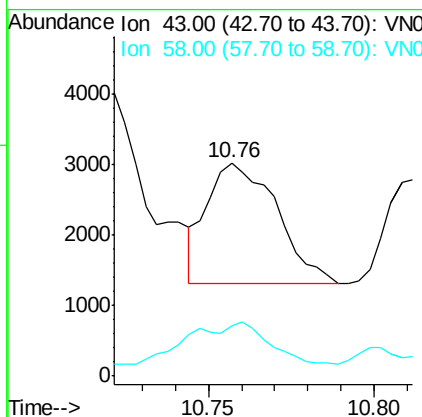
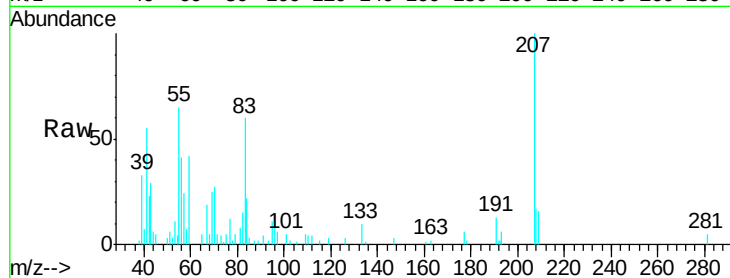




#59  
2-Hexanone  
Concen: 0.624 ug/l  
RT: 10.76 min Scan# 2794  
Delta R.T. 0.01 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

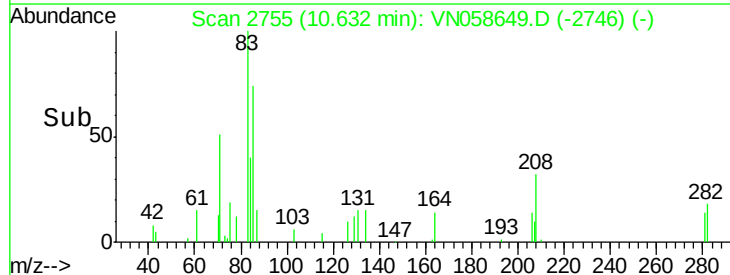
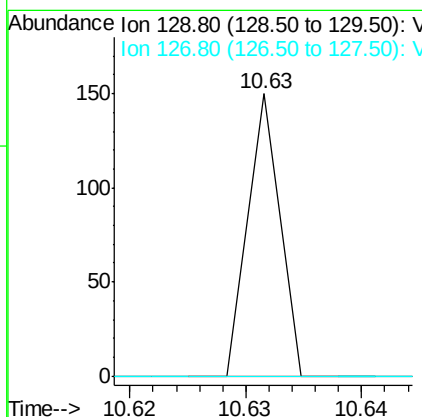
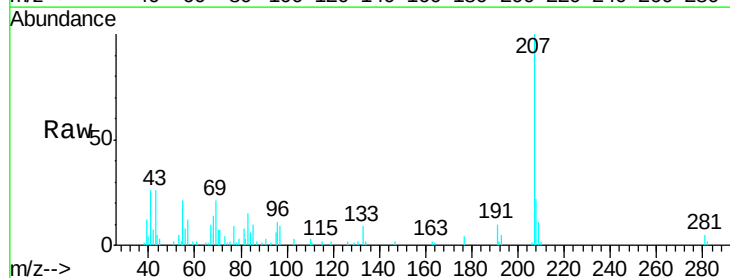
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

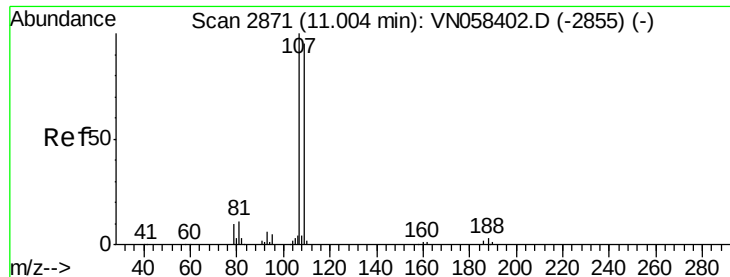
Tgt Ion: 43 Resp: 2478  
Ion Ratio Lower Upper  
43 100  
58 68.8 25.8 77.3



#60  
Dibromochloromethane  
Concen: Below Cal  
RT: 10.63 min Scan# 2755  
Delta R.T. -0.27 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 129 Resp: 29  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.3 114.8#





#61

1,2-Dibromoethane

Concen: 0.269 ug/l

RT: 10.98 min Scan# 2863

Delta R.T. -0.03 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampleId :

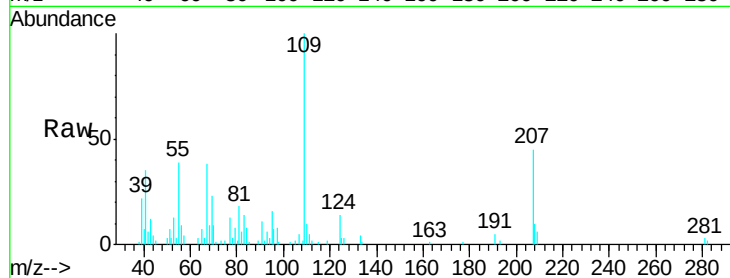
MW-3

Tgt Ion: 107 Resp: 1207

Ion Ratio Lower Upper

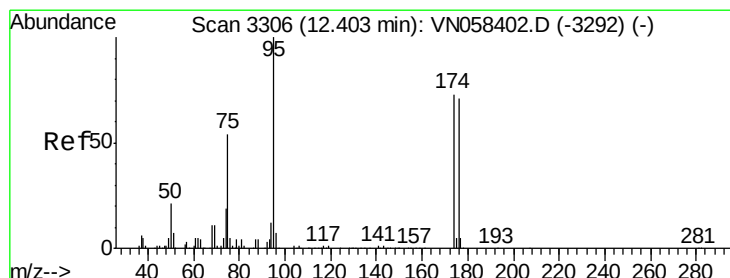
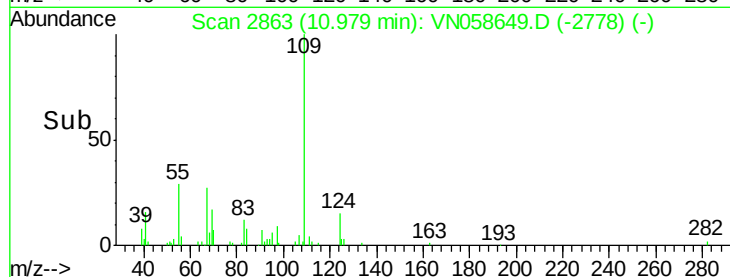
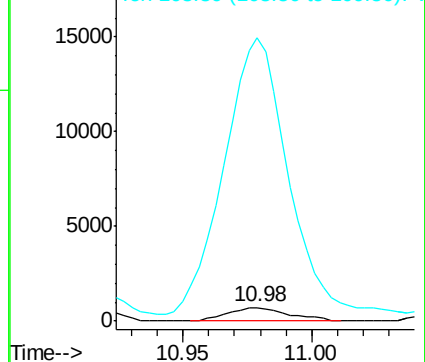
107 100

109 2080.3 75.3 112.9#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 51.366 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

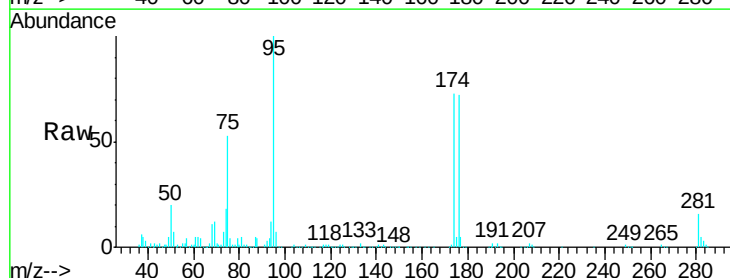
Tgt Ion: 95 Resp: 310502

Ion Ratio Lower Upper

95 100

174 74.4 0.0 150.6

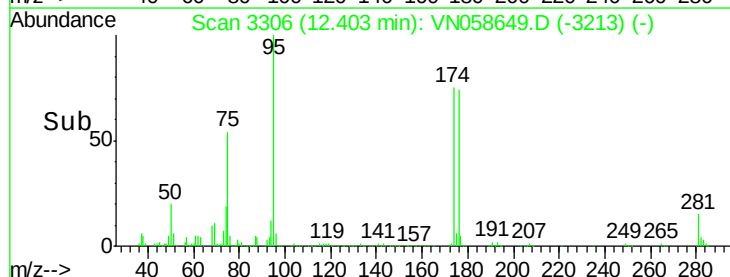
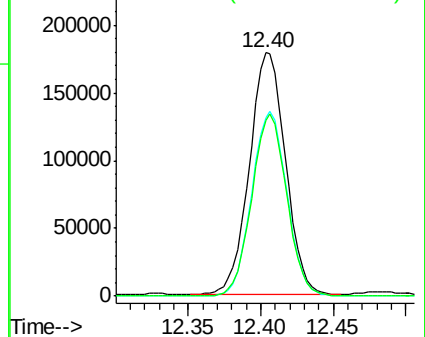
176 72.8 0.0 146.2



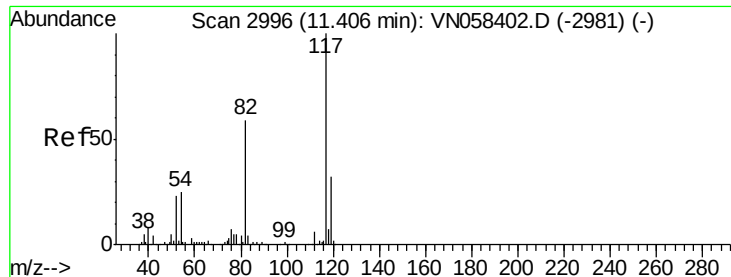
Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



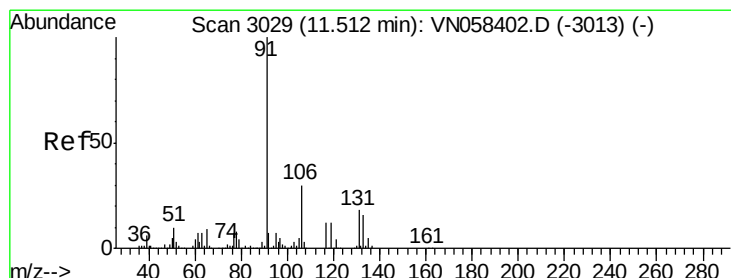
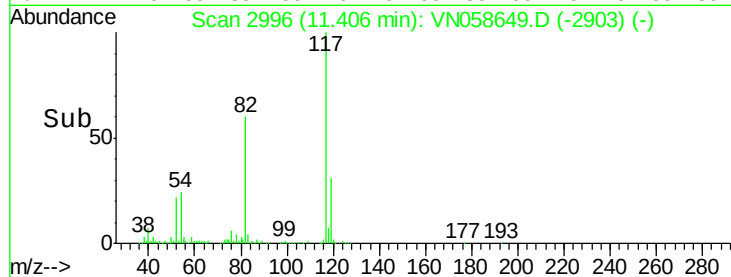
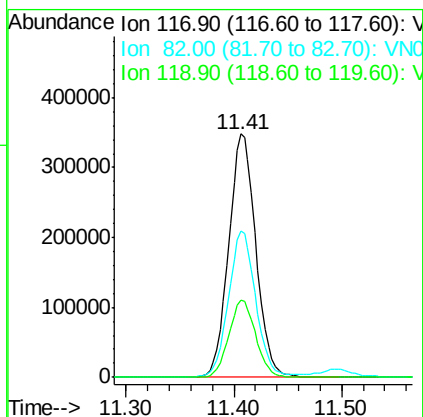
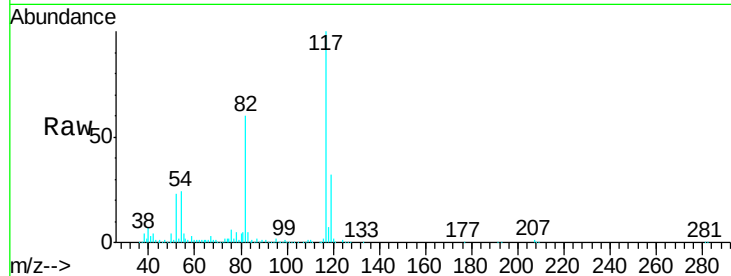




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

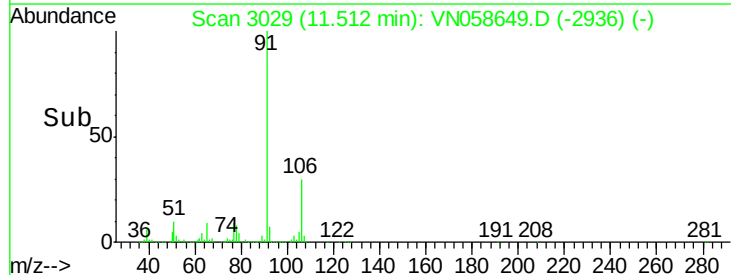
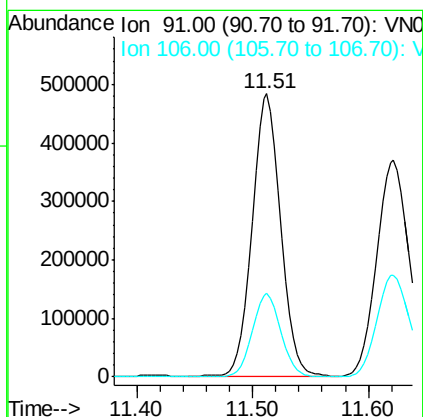
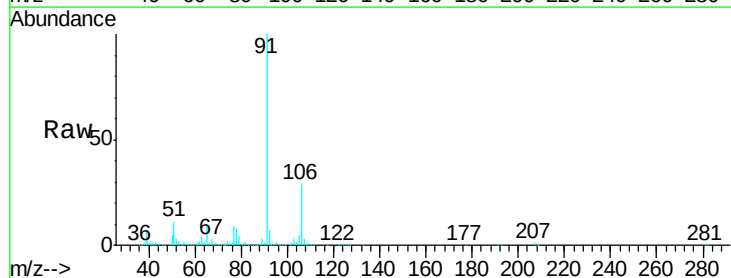
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

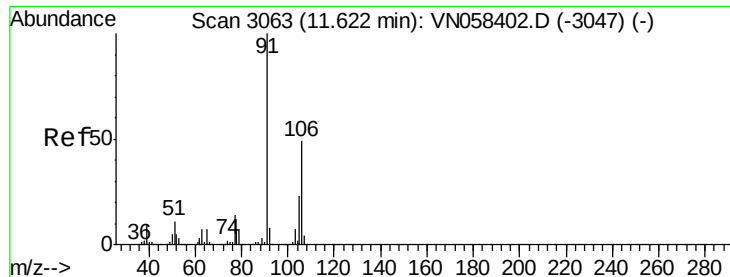
Tgt Ion: 117 Resp: 609567  
Ion Ratio Lower Upper  
117 100  
82 60.0 47.4 71.0  
119 31.5 25.5 38.3



#67  
Ethyl Benzene  
Concen: 37.676 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 91 Resp: 826873  
Ion Ratio Lower Upper  
91 100  
106 29.5 24.3 36.5

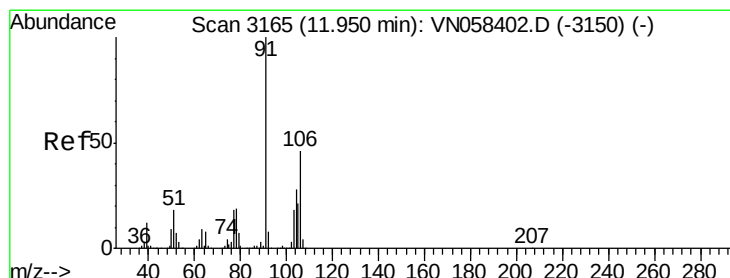
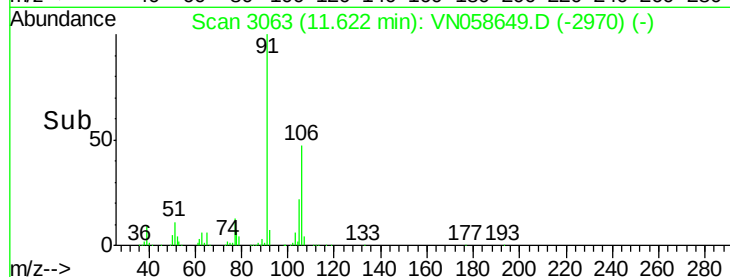
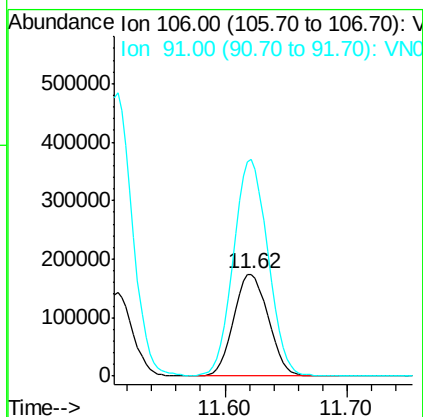
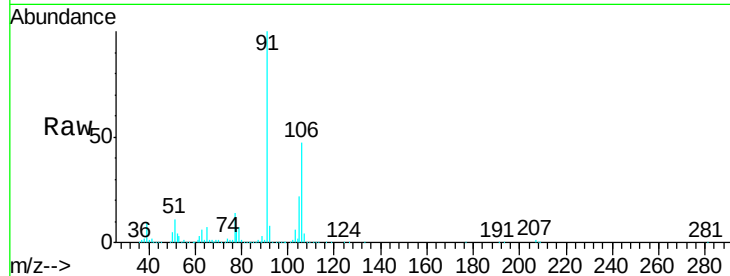




#68  
m/p-Xylenes  
Concen: 41.518 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

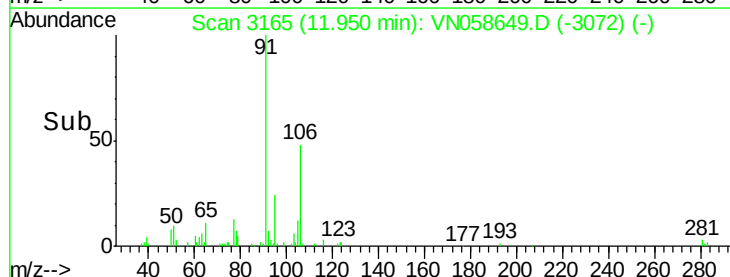
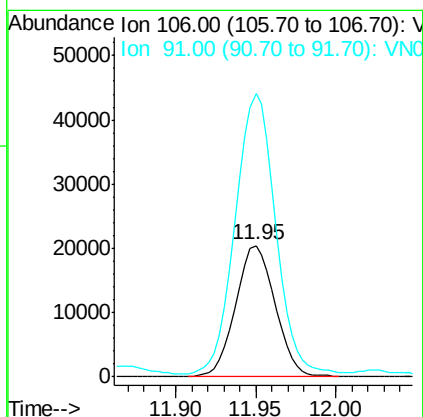
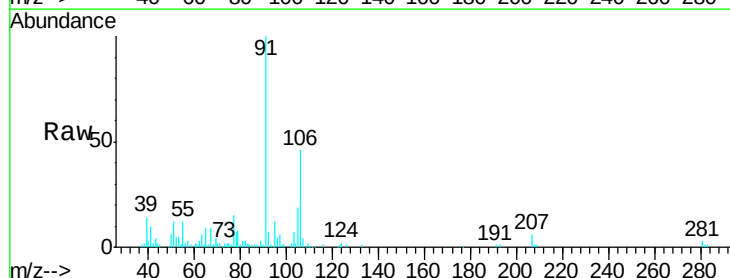
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3

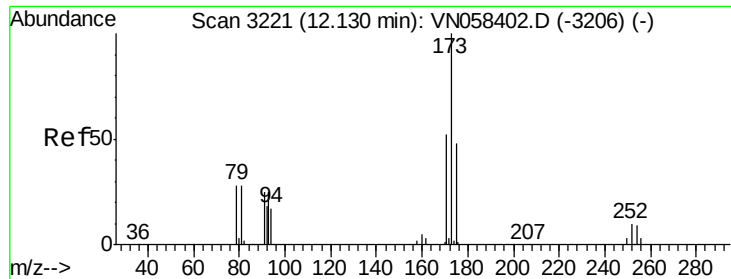
Tgt Ion:106 Resp: 342830  
Ion Ratio Lower Upper  
106 100  
91 210.5 165.0 247.4



#69  
o-Xylene  
Concen: 4.314 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion:106 Resp: 34290  
Ion Ratio Lower Upper  
106 100  
91 215.7 109.1 327.4

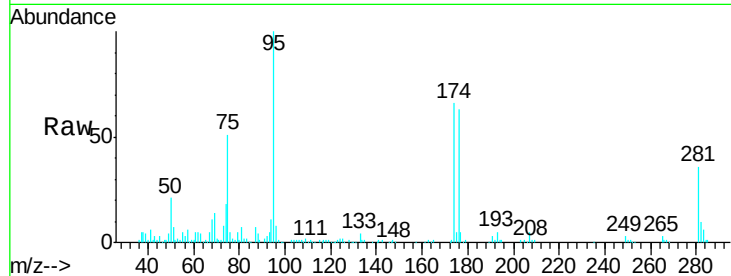




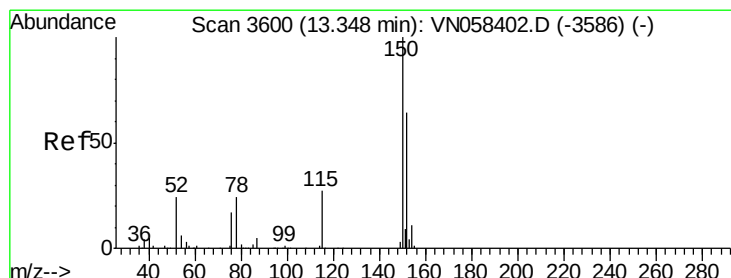
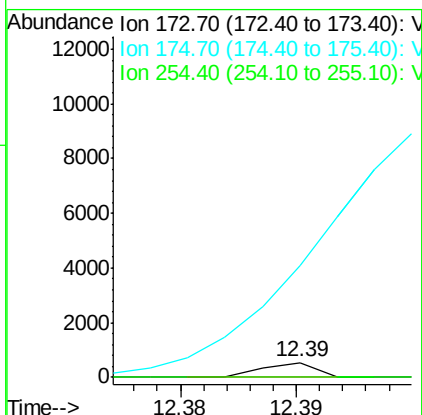
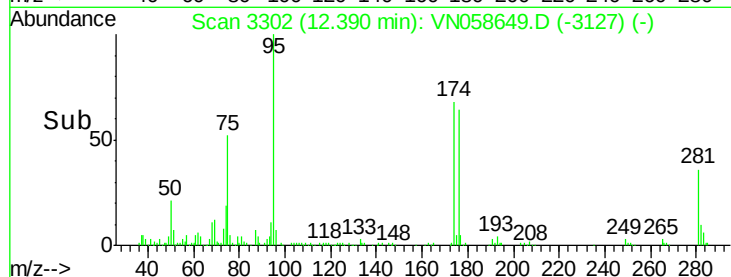
#71  
Bromoform  
Concen: 0.752 ug/l  
RT: 12.39 min Scan# 3302  
Delta R.T. 0.26 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3

Tgt Ion:173 Resp: 165  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.1 0.1#

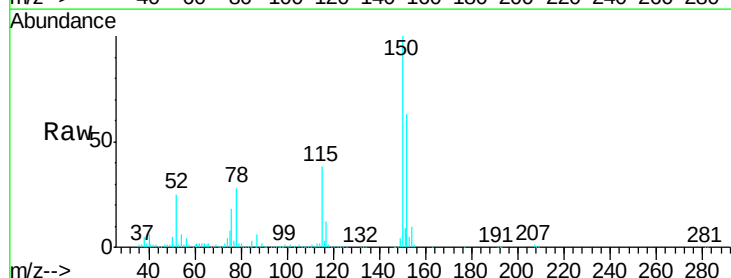


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

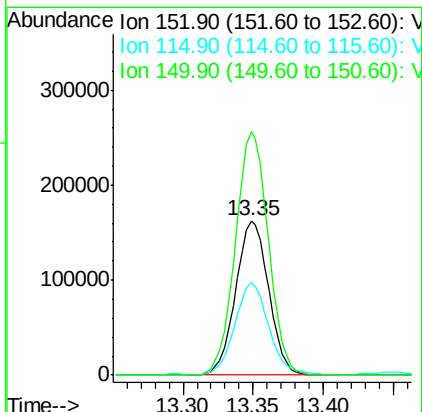
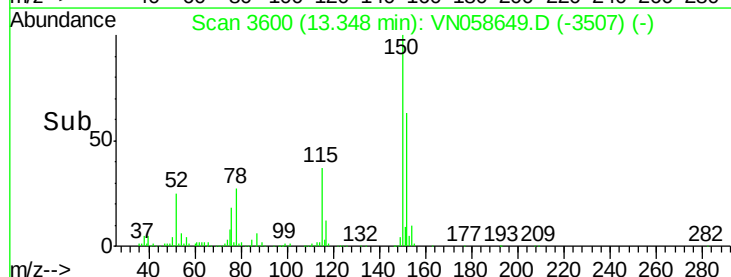


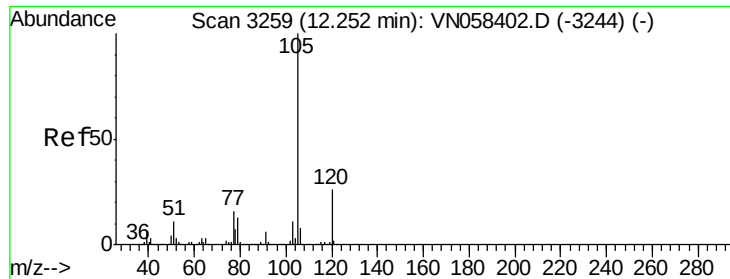
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion:152 Resp: 267106  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.0 90.0  
150 157.1 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 88.643 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

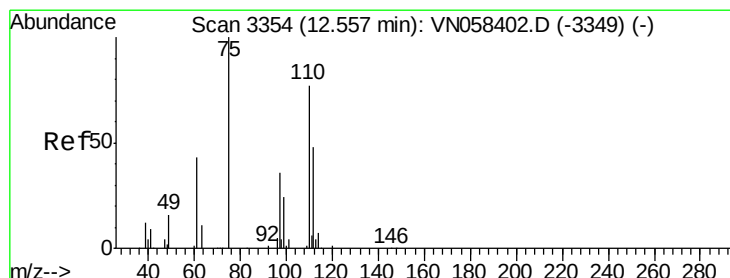
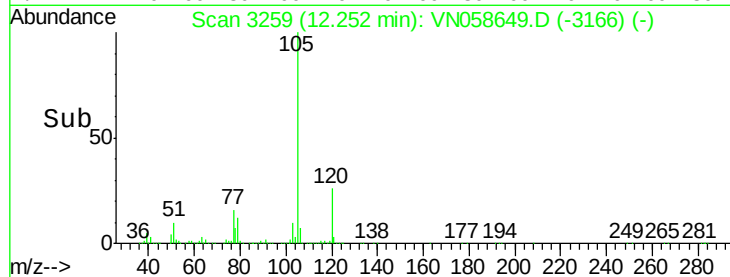
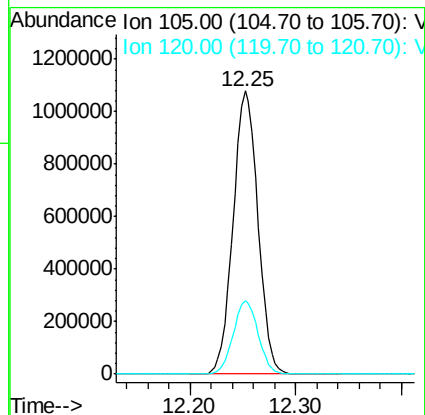
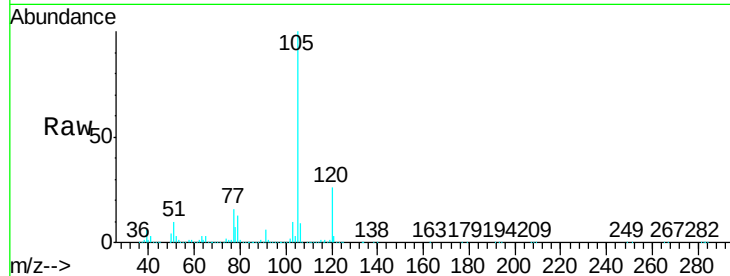
MW-3

Tgt Ion:105 Resp: 1749799

Ion Ratio Lower Upper

105 100

120 26.0 12.8 38.4



#76

1,2,3-Trichloropropane

Concen: 1.787 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.04 min

Lab File: VN058649.D

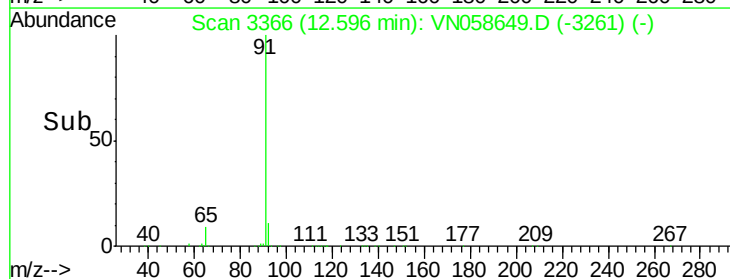
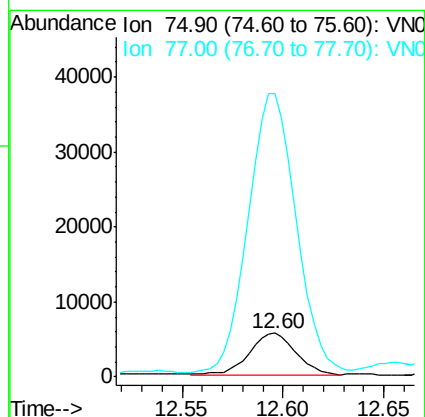
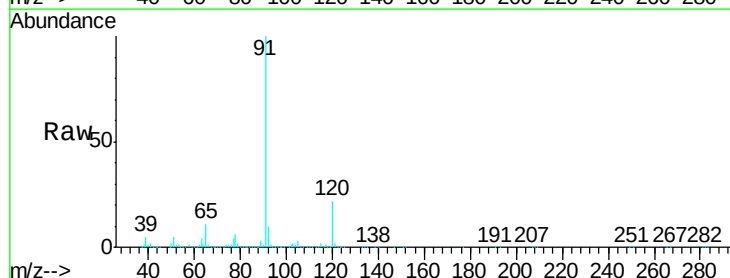
Acq: 9 Oct 2019 18:48

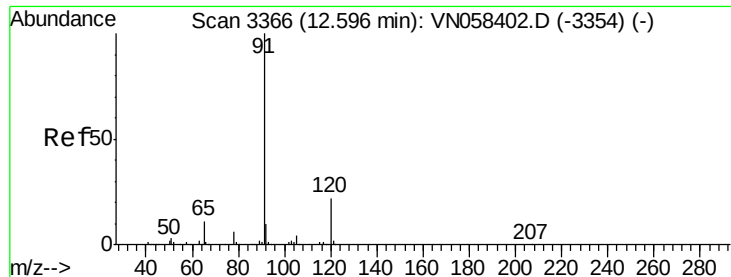
Tgt Ion: 75 Resp: 8716

Ion Ratio Lower Upper

75 100

77 708.9 0.0 0.0#





#78

n-propylbenzene

Concen: 68.531 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampleId :

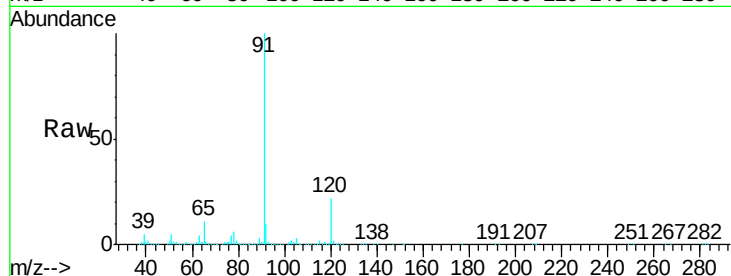
MW-3

Tgt Ion: 91 Resp: 1524061

Ion Ratio Lower Upper

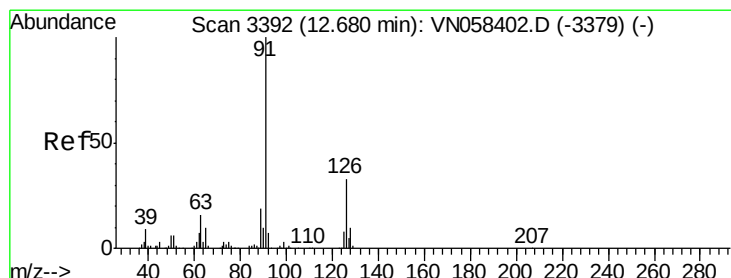
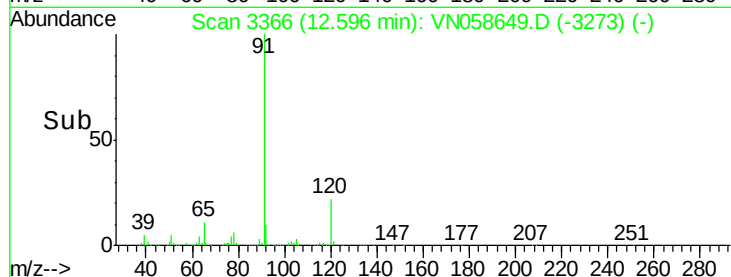
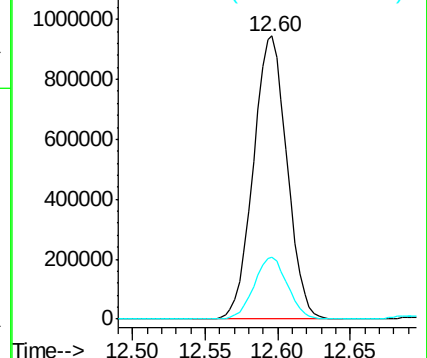
91 100

120 21.7 10.9 32.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 111.029 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. -0.08 min

Lab File: VN058649.D

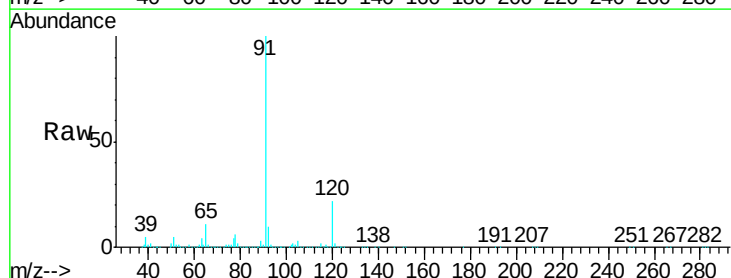
Acq: 9 Oct 2019 18:48

Tgt Ion: 91 Resp: 1524061

Ion Ratio Lower Upper

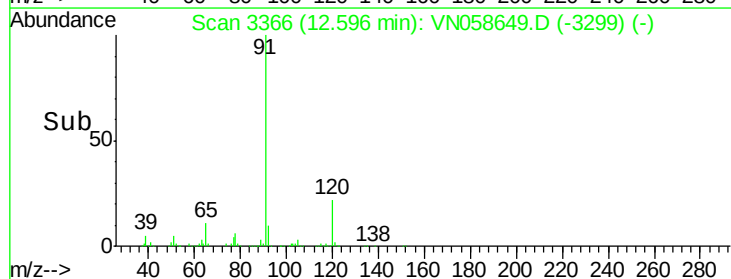
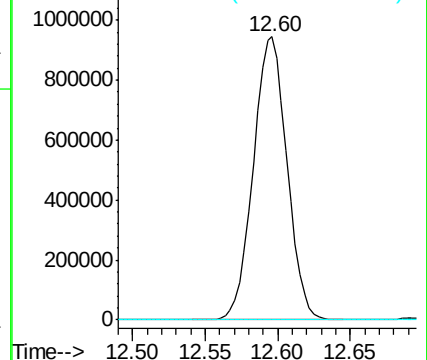
91 100

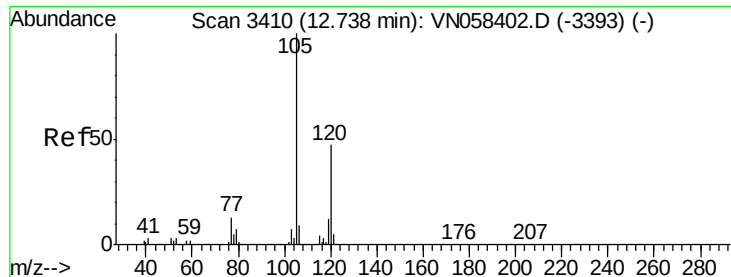
126 0.0 16.2 48.6#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 11.565 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

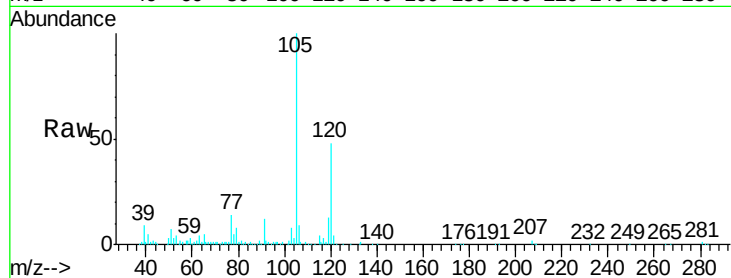
MW-3

Tgt Ion:105 Resp: 191109

Ion Ratio Lower Upper

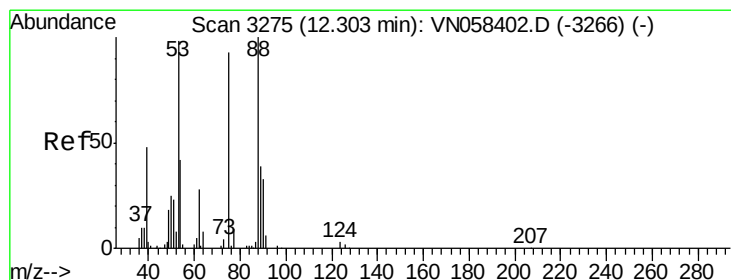
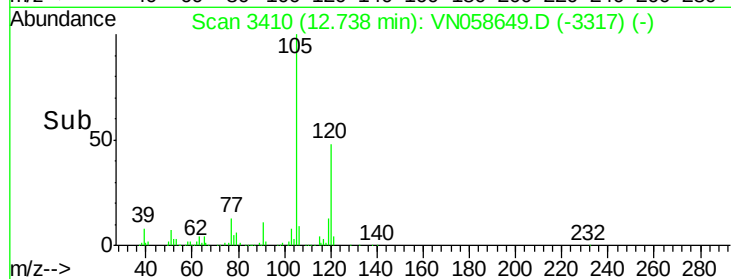
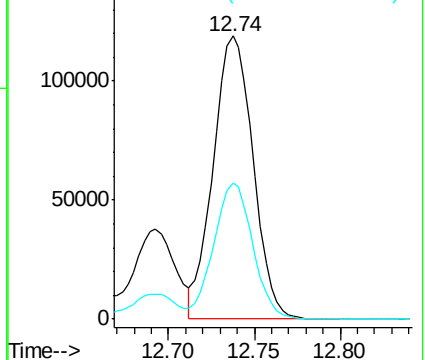
105 100

120 47.7 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 13.382 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.05 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

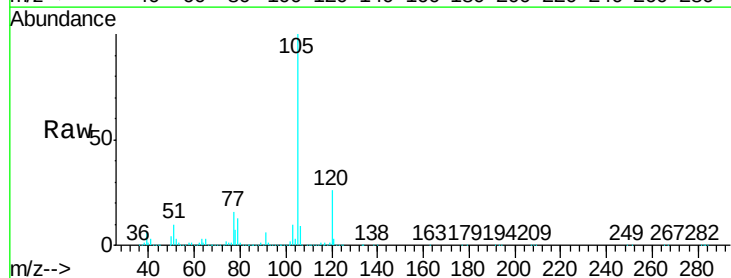
Tgt Ion: 75 Resp: 21497

Ion Ratio Lower Upper

75 100

53 112.6 85.4 128.0

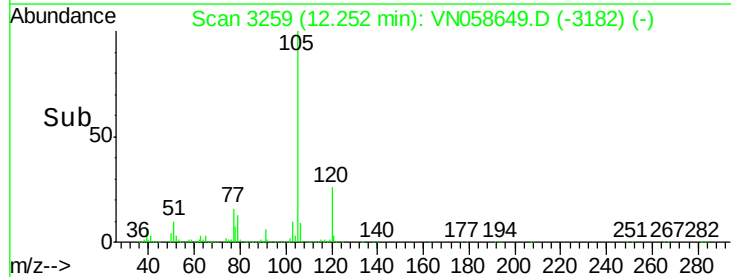
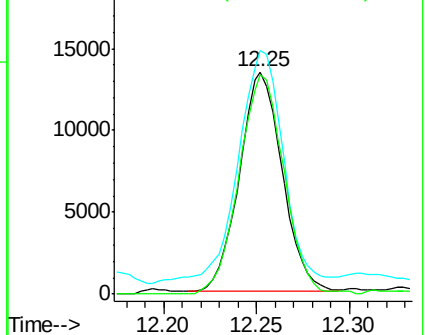
89 104.9 35.0 52.4#

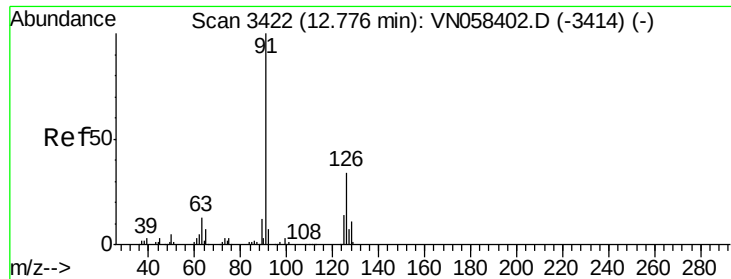


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#82

4-Chlorotoluene

Concen: 4.530 ug/l

RT: 12.90 min Scan# 3459

Delta R.T. 0.12 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampled :

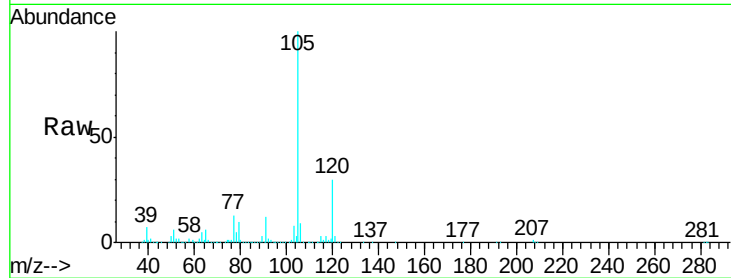
MW-3

Tgt Ion: 91 Resp: 63455

Ion Ratio Lower Upper

91 100

126 0.0 15.9 47.7#



Abundance Ion 91.00 (90.70 to 91.70): VN058402.D (-3414) (-)

Ion 125.90 (125.60 to 126.60): VN058402.D (-3414) (-)

12.90

40000

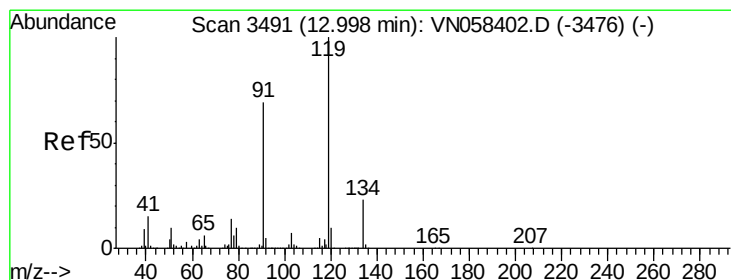
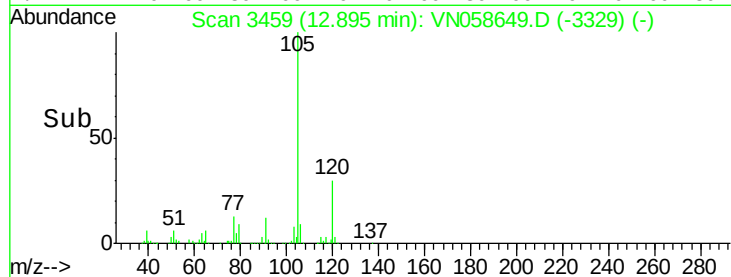
30000

20000

10000

0

Time-->



#83

tert-Butylbenzene

Concen: 2.982 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

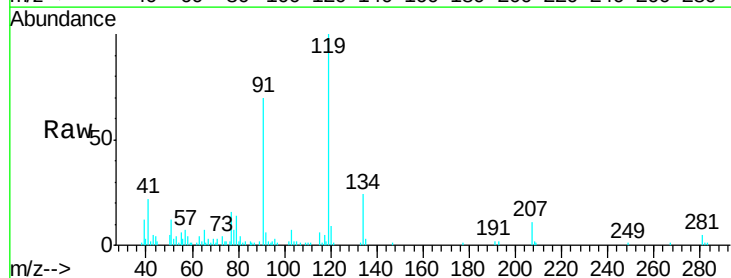
Tgt Ion: 119 Resp: 41574

Ion Ratio Lower Upper

119 100

91 66.2 34.2 102.6

134 22.8 11.6 34.8



Abundance Ion 119.00 (118.70 to 119.70): VN058402.D (-3476) (-)

Ion 91.00 (90.70 to 91.70): VN058402.D (-3476) (-)

Ion 134.00 (133.70 to 134.70): VN058402.D (-3476) (-)

13.00

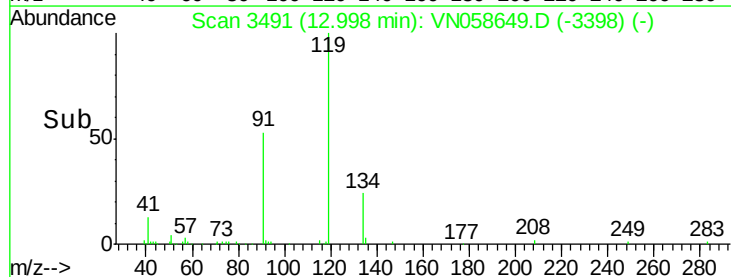
30000

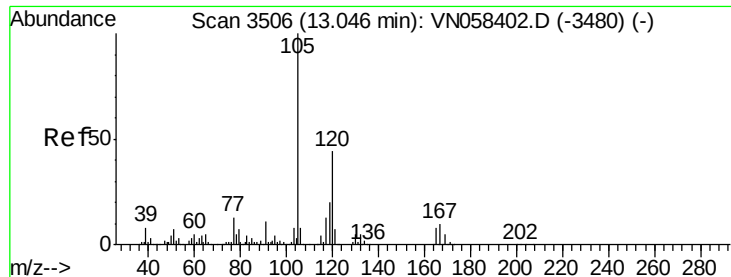
20000

10000

0

Time-->

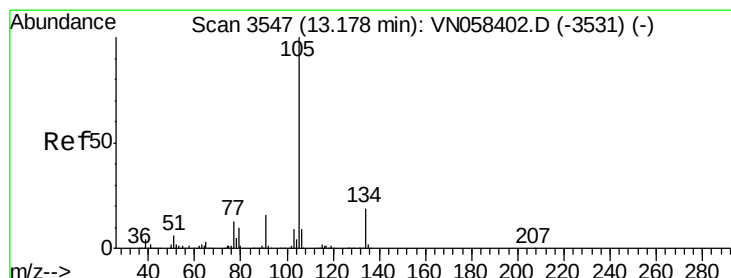
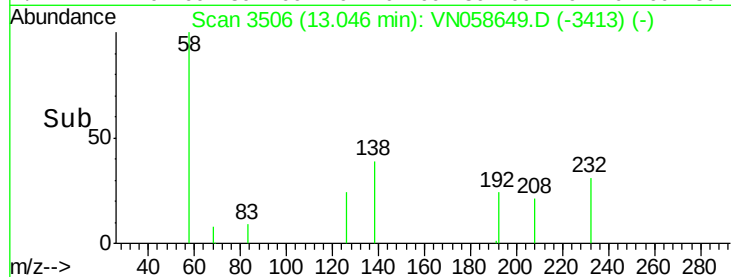
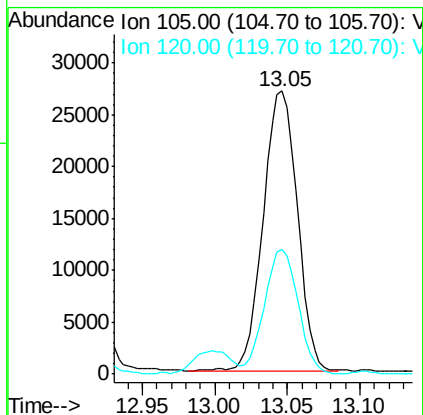
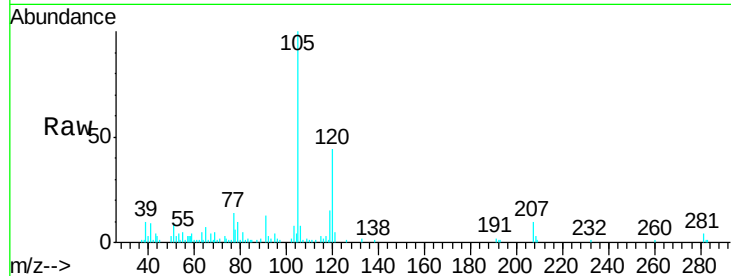




#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.676 ug/l  
 RT: 13.05 min Scan# 3506  
 Delta R.T. 0.00 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

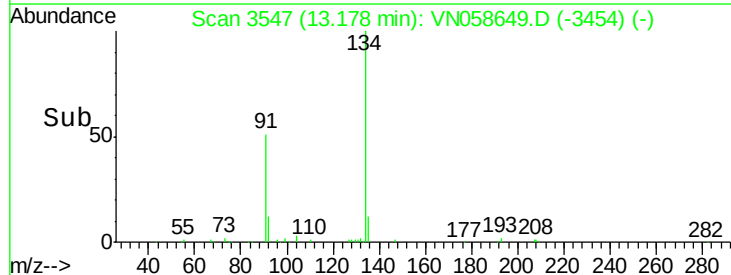
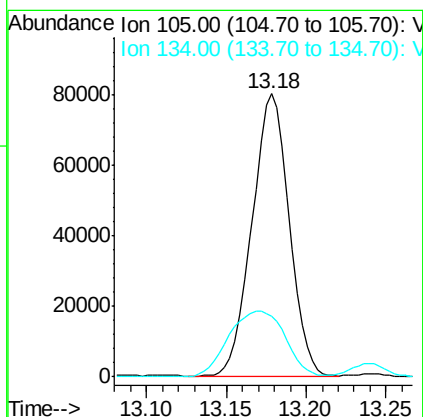
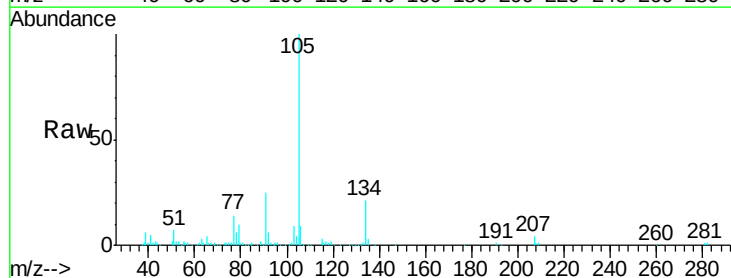
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-3

Tgt Ion:105 Resp: 44311  
 Ion Ratio Lower Upper  
 105 100  
 120 44.0 21.7 65.1

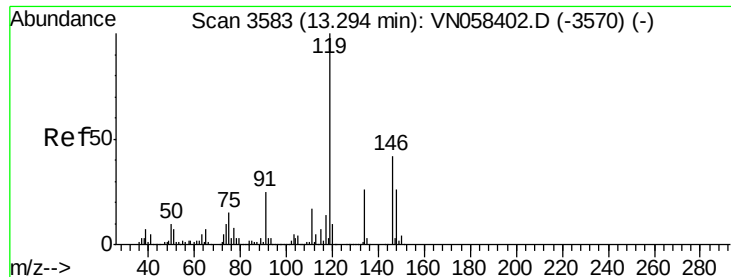


#85  
 sec-Butylbenzene  
 Concen: 6.952 ug/l  
 RT: 13.18 min Scan# 3547  
 Delta R.T. 0.00 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

Tgt Ion:105 Resp: 127587  
 Ion Ratio Lower Upper  
 105 100  
 134 35.4 9.4 28.2#



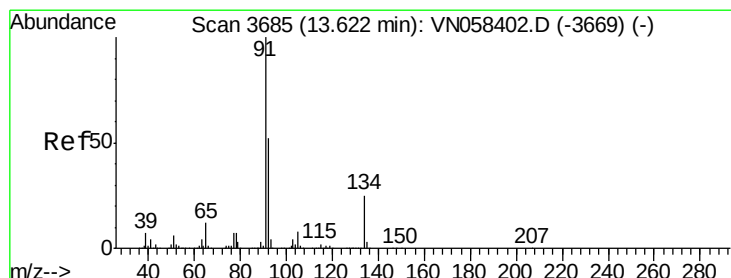
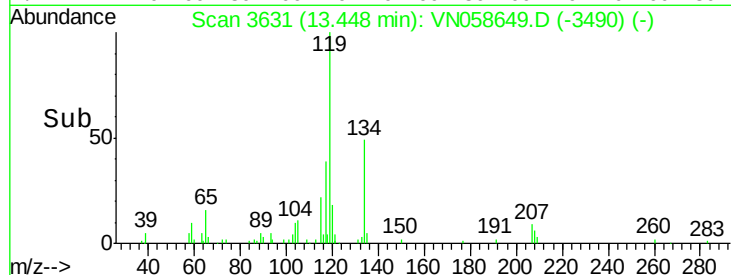
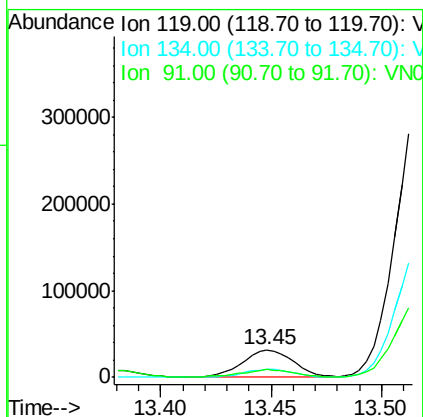
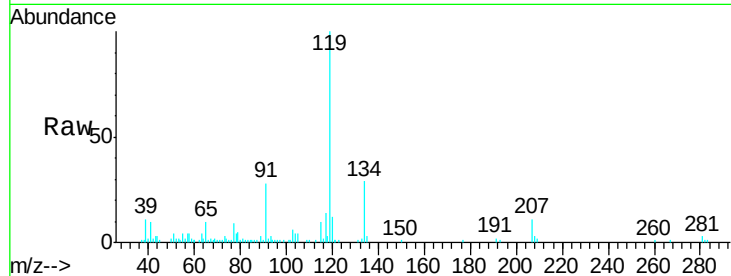




#86  
 p-Isopropyltoluene  
 Concen: 3.126 ug/l  
 RT: 13.45 min Scan# 3631  
 Delta R.T. 0.15 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

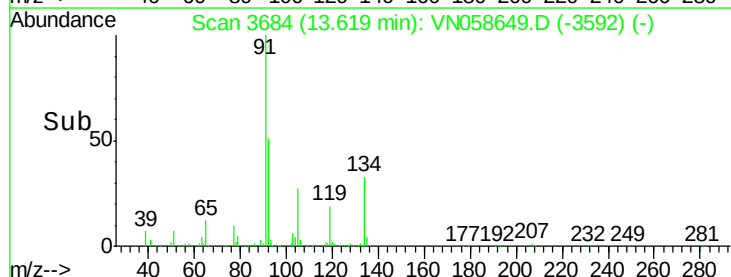
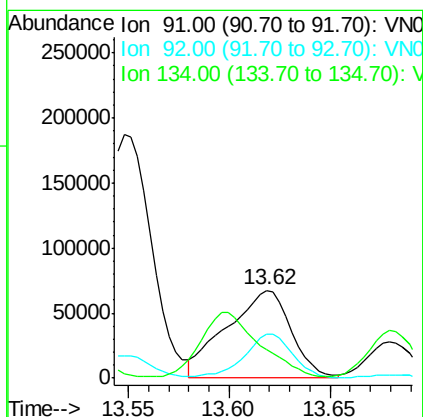
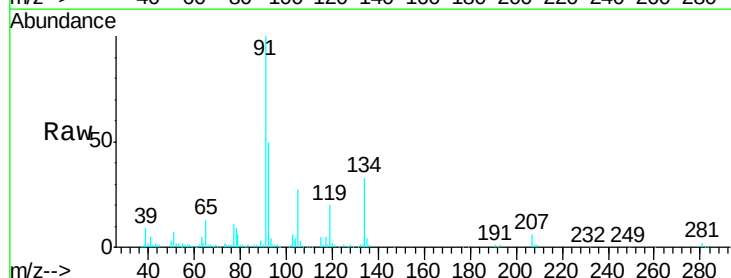
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-3

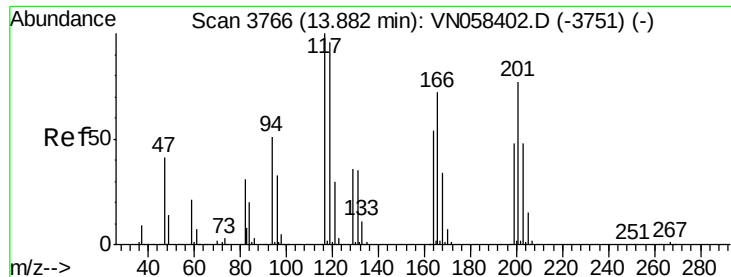
Tgt Ion: 119 Resp: 50492  
 Ion Ratio Lower Upper  
 119 100  
 134 29.5 13.0 39.0  
 91 26.2 12.4 37.0



#89  
 n-Butylbenzene  
 Concen: 10.132 ug/l  
 RT: 13.62 min Scan# 3684  
 Delta R.T. -0.00 min  
 Lab File: VN058649.D  
 Acq: 9 Oct 2019 18:48

Tgt Ion: 91 Resp: 148262  
 Ion Ratio Lower Upper  
 91 100  
 92 36.4 25.7 77.1  
 134 69.6 12.2 36.6#

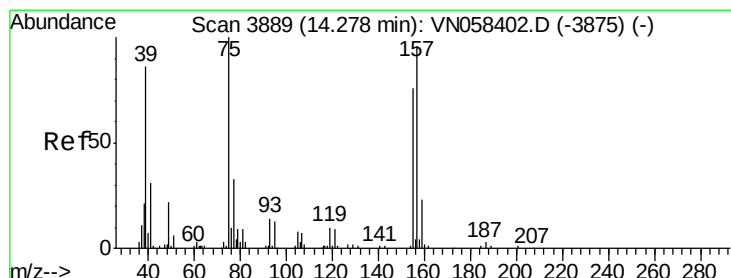
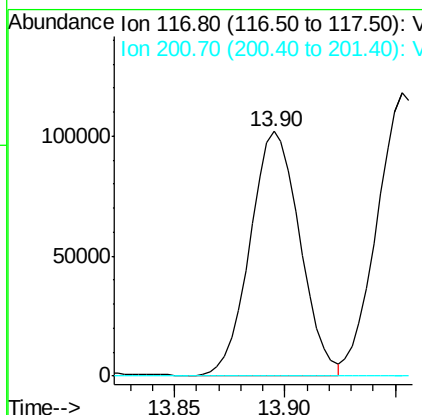
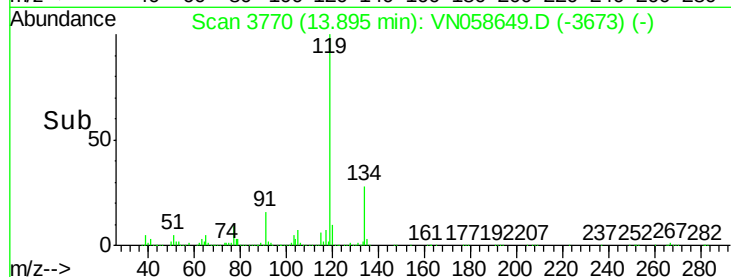
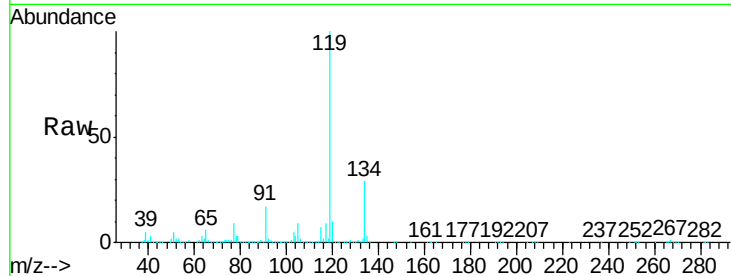




#90  
Hexachloroethane  
Concen: 65.292 ug/l  
RT: 13.90 min Scan# 3770  
Delta R.T. 0.01 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

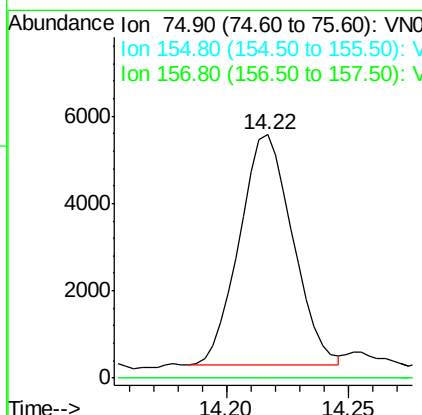
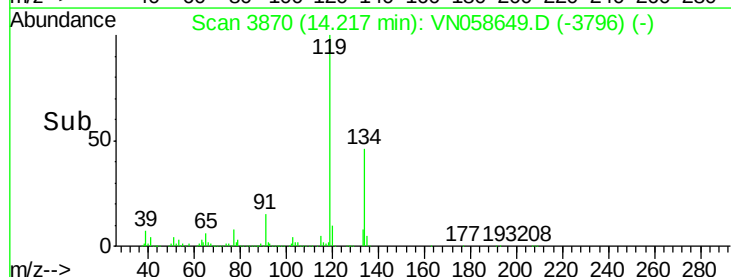
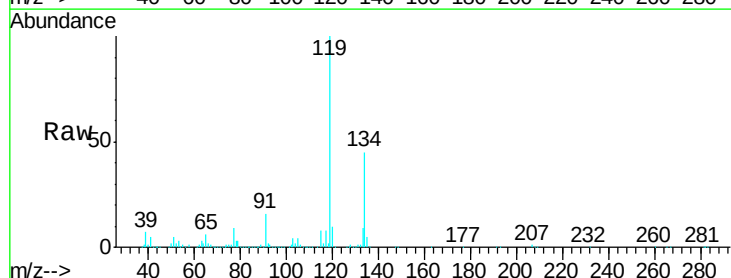
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

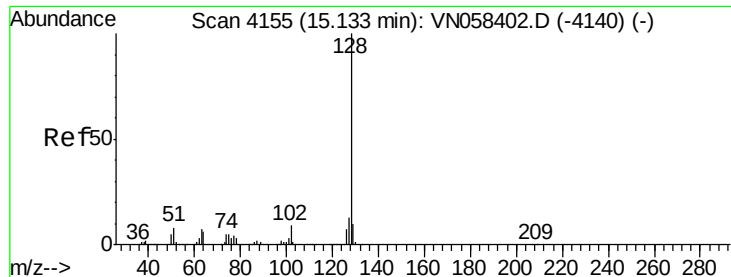
Tgt Ion:117 Resp: 158475  
Ion Ratio Lower Upper  
117 100  
201 0.0 38.6 116.0#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 7.781 ug/l  
RT: 14.22 min Scan# 3870  
Delta R.T. -0.06 min  
Lab File: VN058649.D  
Acq: 9 Oct 2019 18:48

Tgt Ion: 75 Resp: 8009  
Ion Ratio Lower Upper  
75 100  
155 0.0 39.2 117.6#  
157 0.0 48.7 146.1#





#95

Naphthalene

Concen: 21.233 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA\_N

ClientSampleId :

MW-3

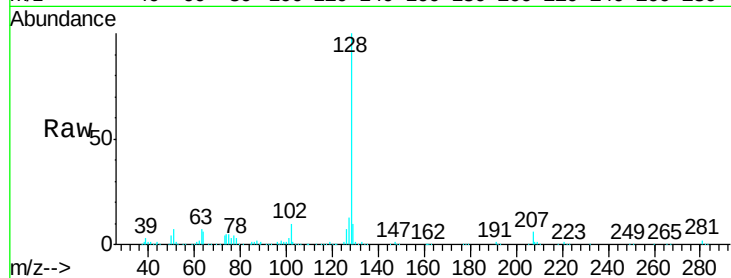
Tgt Ion:128 Resp: 277312

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

129 10.6 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

