

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\  
 Data File : VN064733.D  
 Acq On : 19 Nov 2020 15:13  
 Operator : JC/MD  
 Sample : L4783-19DL 10X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1DDL

Quant Time: Nov 20 03:49:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 18 15:29:54 2020  
 Response via : Initial Calibration

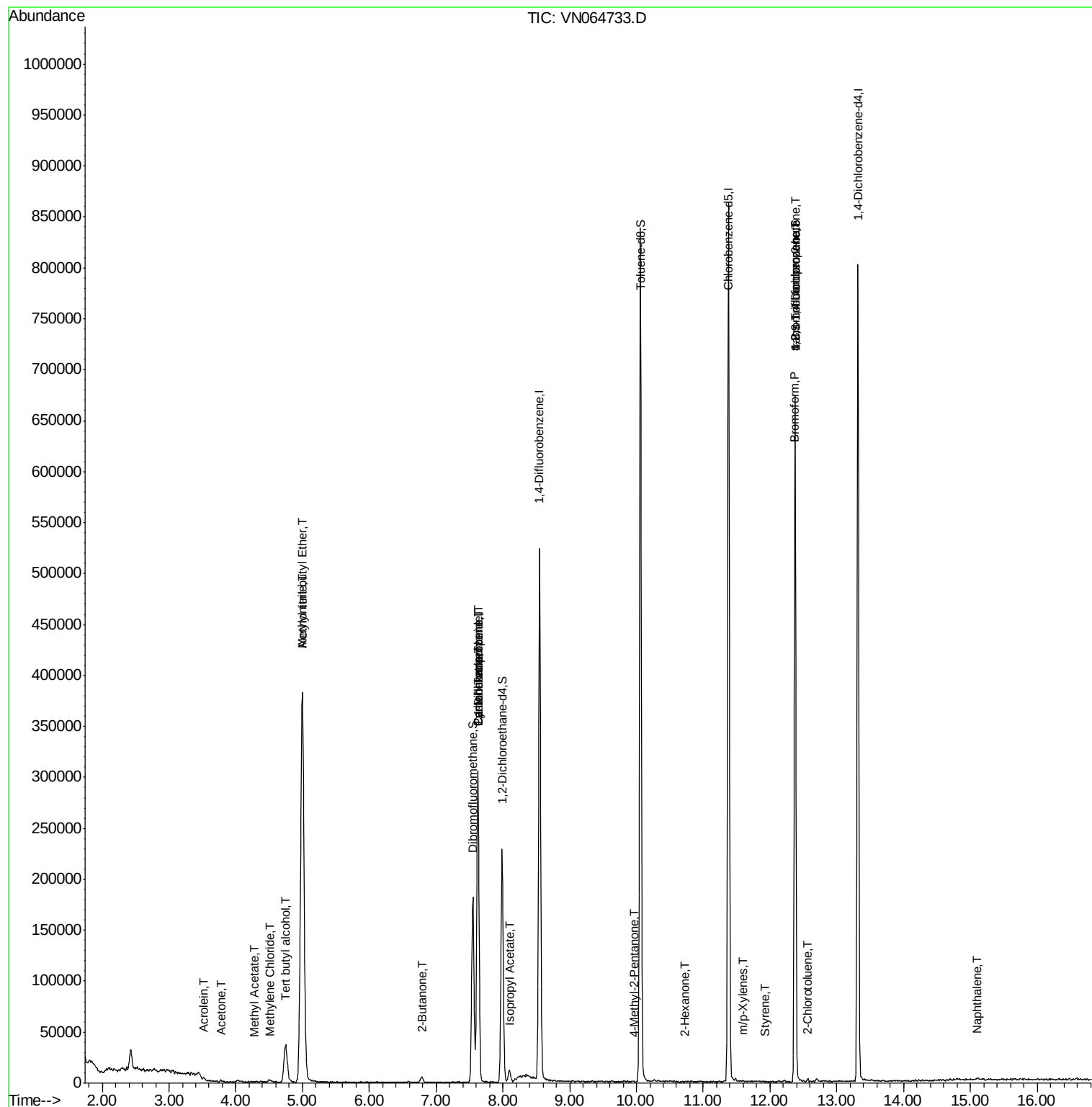
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.63  | 168  | 214163   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.55  | 114  | 427199   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.38 | 117  | 451847   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.32 | 152  | 191026   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.99  | 65   | 211121   | 56.04   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 112.08% |          |
| 35) Dibromofluoromethane       | 7.55  | 113  | 133887   | 55.06   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 110.12% |          |
| 50) Toluene-d8                 | 10.06 | 98   | 552726   | 50.02   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 100.04% |          |
| 62) 4-Bromofluorobenzene       | 12.38 | 95   | 219431   | 53.12   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 106.24% |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 11) Tert butyl alcohol         | 4.75  | 59   | 60230    | 164.785 | ug/l    | 97       |
| 13) Acrolein                   | 3.51  | 56   | 29       | 0.339   | ug/l #  | 1        |
| 15) Acrylonitrile              | 4.99  | 53   | 7408     | 6.902   | ug/l #  | 10       |
| 16) Acetone                    | 3.78  | 43   | 617      | 5.727   | ug/l #  | 48       |
| 18) Methyl Acetate             | 4.28  | 43   | 482      | 1.504   | ug/l #  | 54       |
| 19) Methyl tert-butyl Ether    | 5.00  | 73   | 616382   | 80.004  | ug/l    | 99       |
| 20) Methylene Chloride         | 4.51  | 84   | 609      | 0.218   | ug/l #  | 72       |
| 25) 2-Butanone                 | 6.78  | 43   | 400      | 0.278   | ug/l #  | 51       |
| 31) Cyclohexane                | 7.62  | 56   | 6413     | 1.574   | ug/l #  | 26       |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 21249    | 4.835   | ug/l #  | 46       |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 24322    | 5.207   | ug/l #  | 17       |
| 43) Isopropyl Acetate          | 8.10  | 43   | 3728     | 0.523   | ug/l #  | 64       |
| 51) 4-Methyl-2-Pentanone       | 9.96  | 43   | 501      | 6.243   | ug/l #  | 39       |
| 59) 2-Hexanone                 | 10.73 | 43   | 95       | 8.468   | ug/l #  | 28       |
| 68) m/p-Xylenes                | 11.59 | 106  | 86       | 4.074   | ug/l #  | 1        |
| 70) Styrene                    | 11.93 | 104  | 29       | 2.539   | ug/l #  | 24       |
| 71) Bromoform                  | 12.36 | 173  | 211      | 2.519   | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 125012   | 30.373  | ug/l #  | 100      |
| 79) 2-Chlorotoluene            | 12.57 | 91   | 2093     | 0.207   | ug/l #  | 43       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 125012   | 77.406  | ug/l #  | 5        |
| 95) Naphthalene                | 15.11 | 128  | 2262     | 0.211   | ug/l #  | 70       |

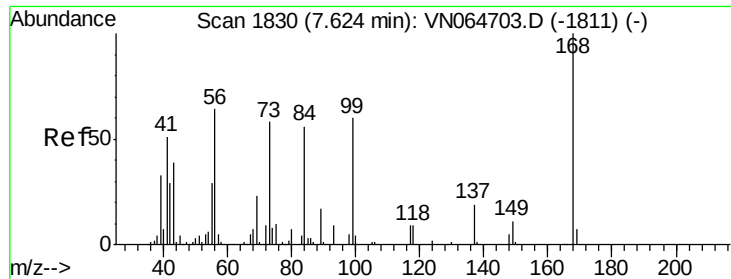
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN111920\  
Data File : VN064733.D  
Acq On : 19 Nov 2020 15:13  
Operator : JC/MD  
Sample : L4783-19DL 10X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1DDL

Quant Time: Nov 20 03:49:08 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N111820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 18 15:29:54 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

Instrument :

MSVOA\_N

ClientSampleId :

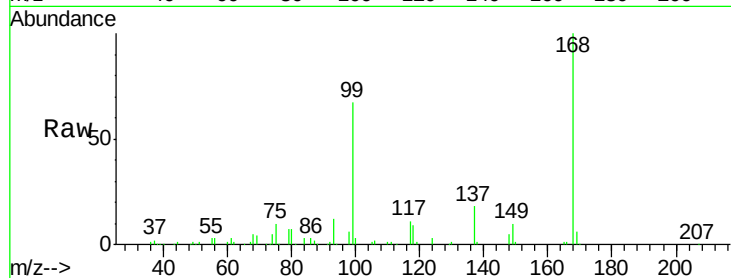
MW-1DDL

Tot Ion:168 Resp: 214163

Ion Ratio Lower Upper

168 100

99 67.4 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

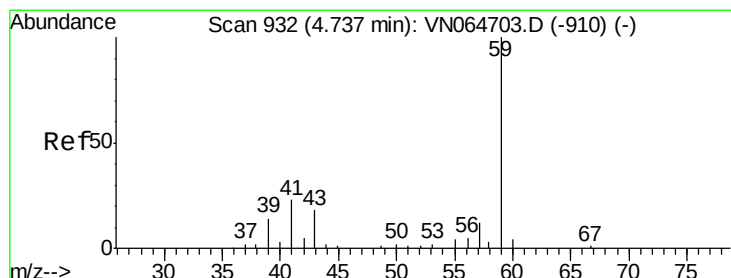
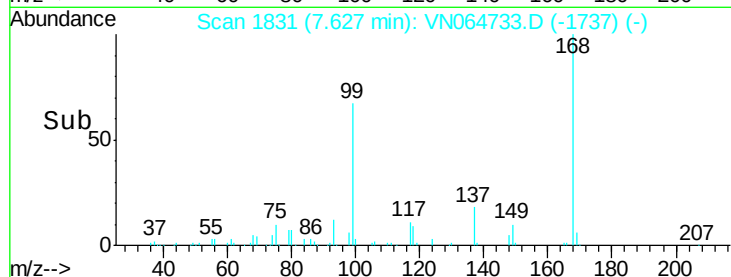
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 164.785 ug/l

RT: 4.75 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN064733.D

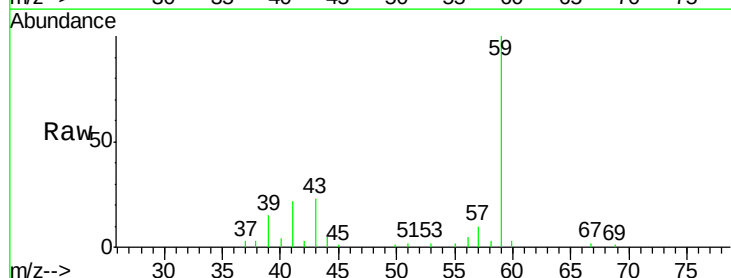
Acq: 19 Nov 2020 15:13

Tgt Ion: 59 Resp: 60230

Ion Ratio Lower Upper

59 100

57 10.2 9.1 13.7



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.75

20000

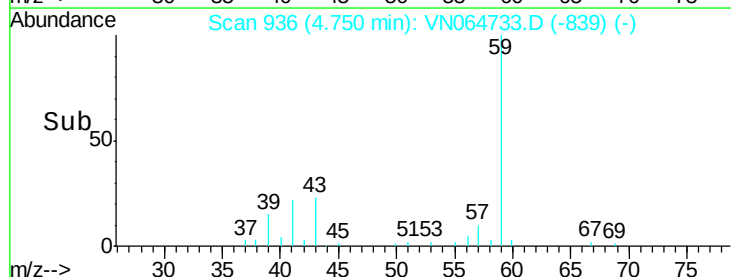
15000

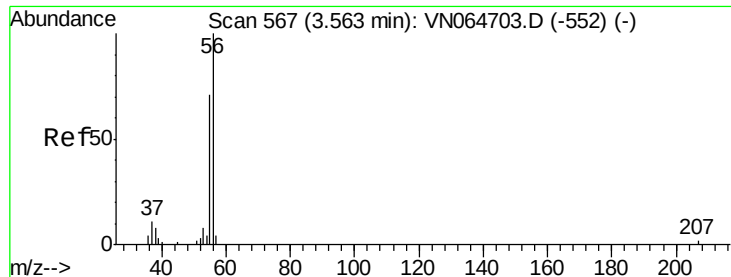
10000

5000

0

Time--> 4.60 4.70 4.80 4.90





#13

Acrolein

Concen: 0.339 ug/l

RT: 3.51 min Scan# 552

Delta R.T. -0.05 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

Instrument :

MSVOA\_N

ClientSampleId :

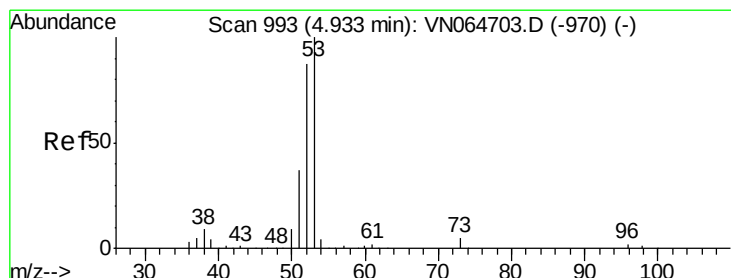
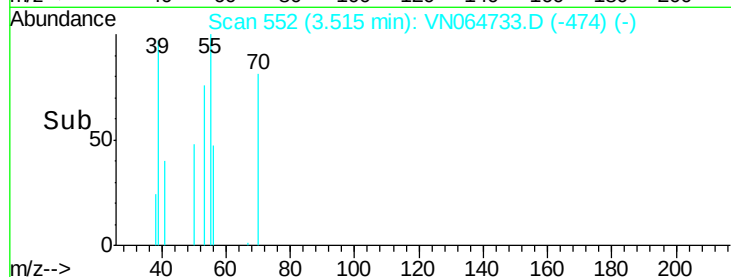
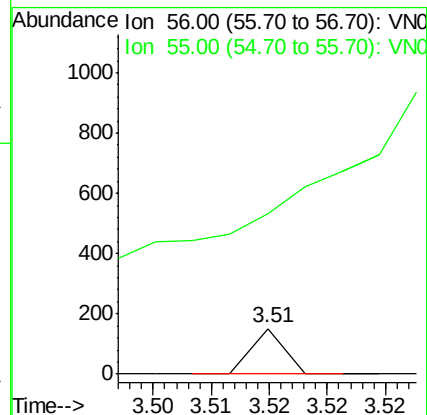
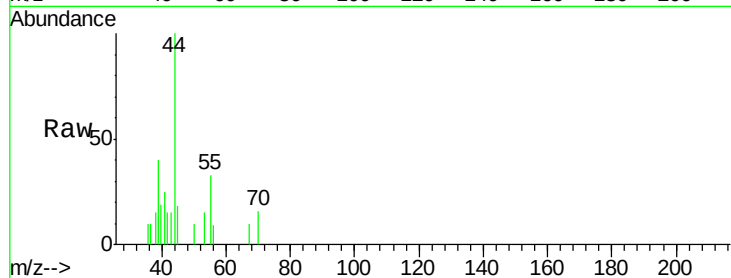
MW-1DDL

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 6600.0 61.8 92.6#



#15

Acrylonitrile

Concen: 6.902 ug/l

RT: 4.99 min Scan# 1010

Delta R.T. 0.05 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

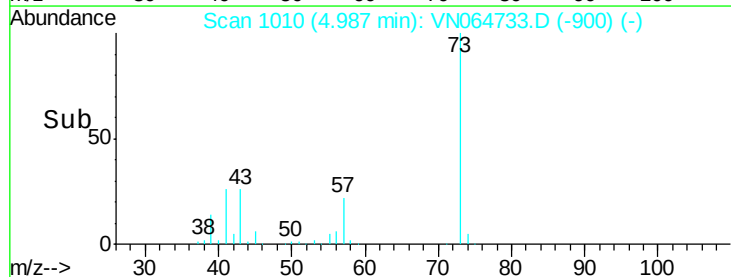
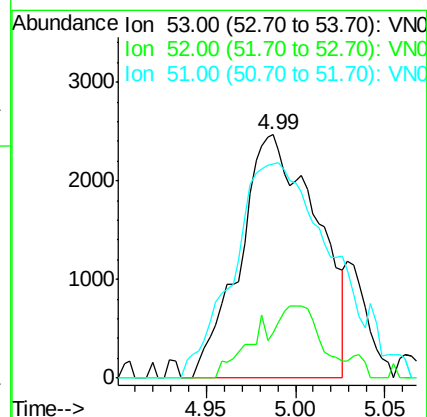
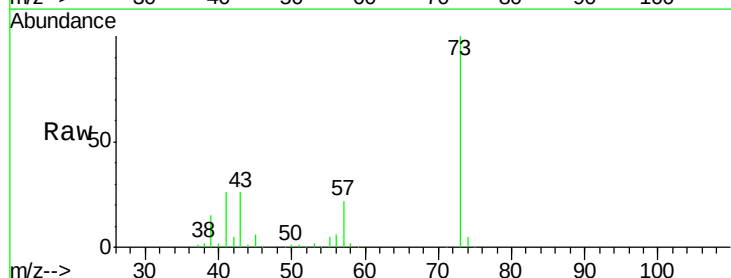
Tgt Ion: 53 Resp: 7408

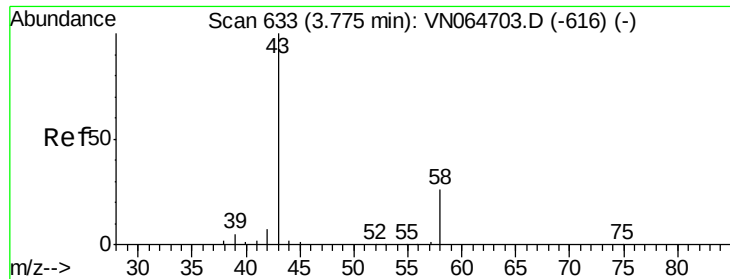
Ion Ratio Lower Upper

53 100

52 16.0 67.2 100.8#

51 112.8 31.0 46.6#

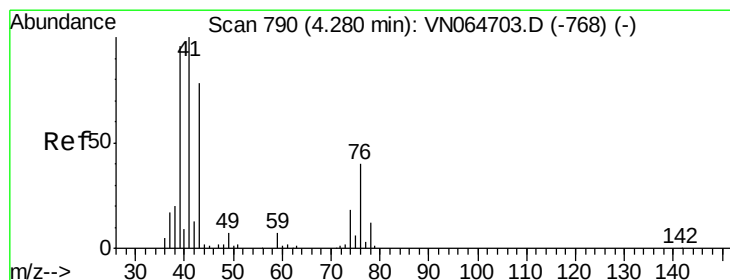
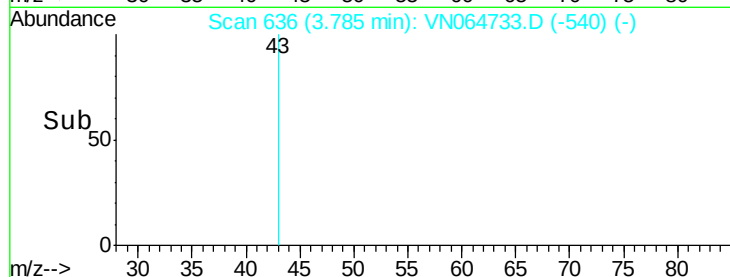
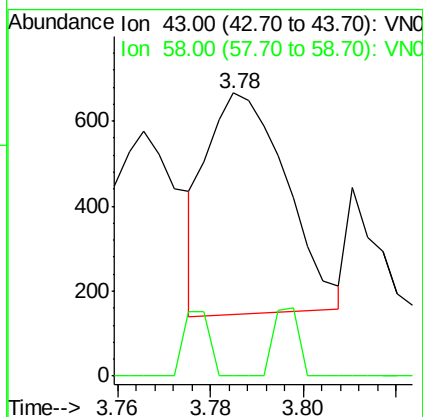
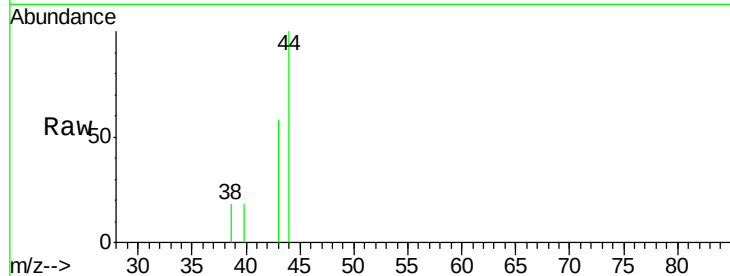




#16  
Acetone  
Concen: 5.727 ug/l  
RT: 3.78 min Scan# 636  
Delta R.T. 0.01 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

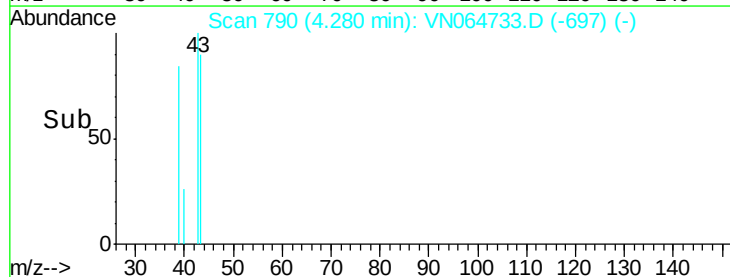
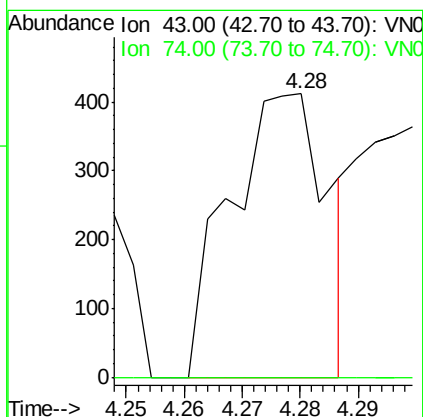
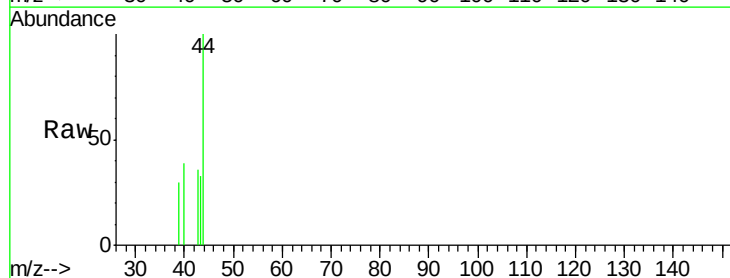
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1DDL

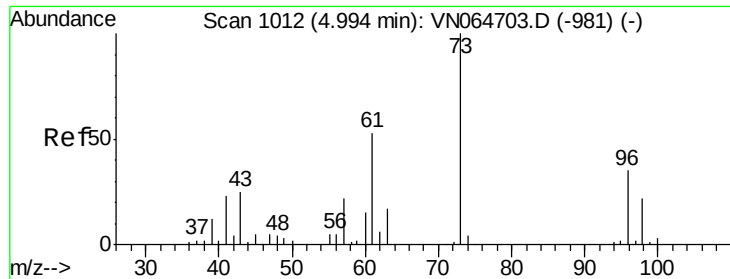
Tot Ion: 43 Resp: 617  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.2 31.8#



#18  
Methyl Acetate  
Concen: 1.504 ug/l  
RT: 4.28 min Scan# 790  
Delta R.T. 0.00 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

Tgt Ion: 43 Resp: 482  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.6 26.4#

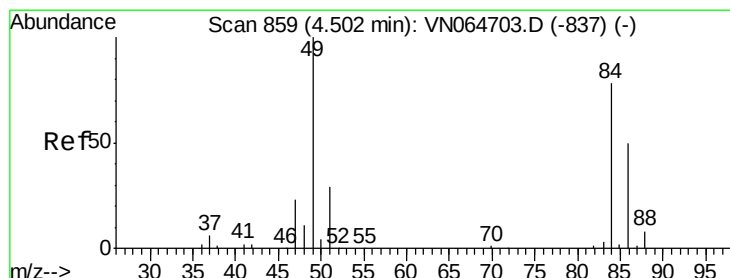
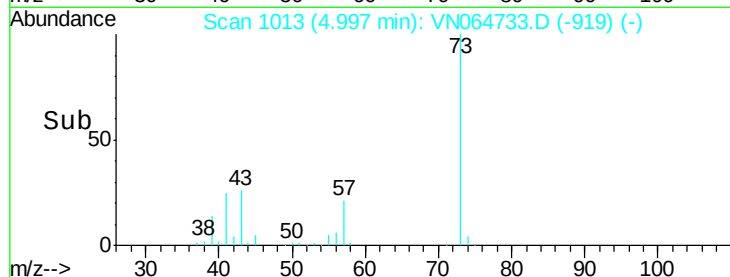
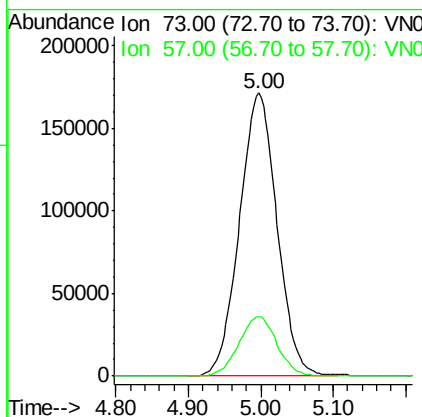
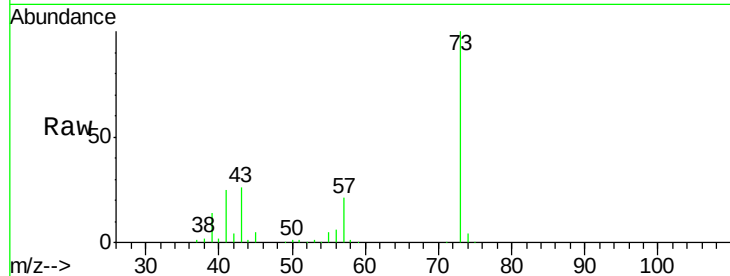




#19  
Methyl tert-butyl Ether  
Concen: 80.004 ug/l  
RT: 5.00 min Scan# 1013  
Delta R.T. 0.00 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

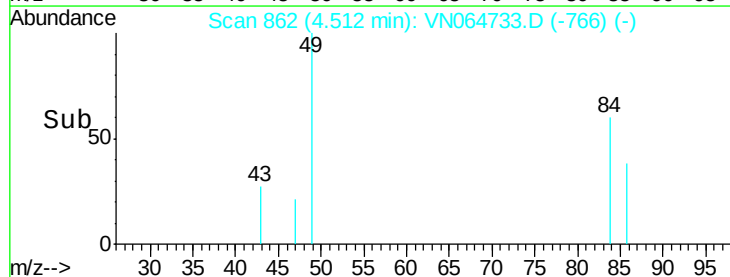
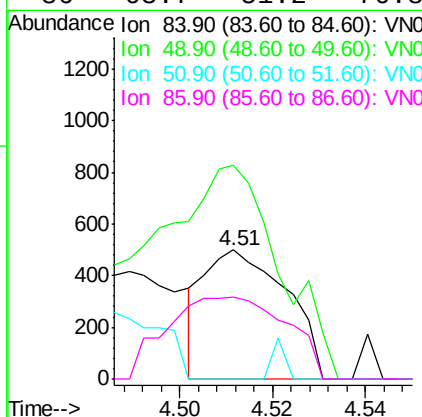
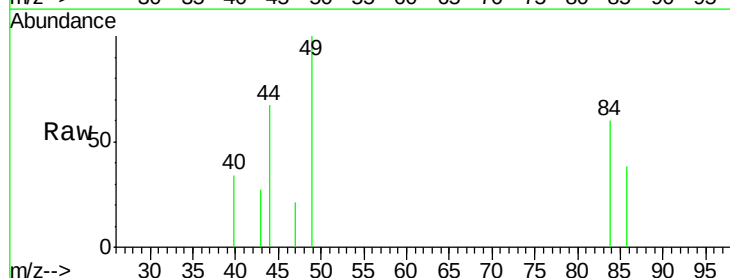
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1DDL

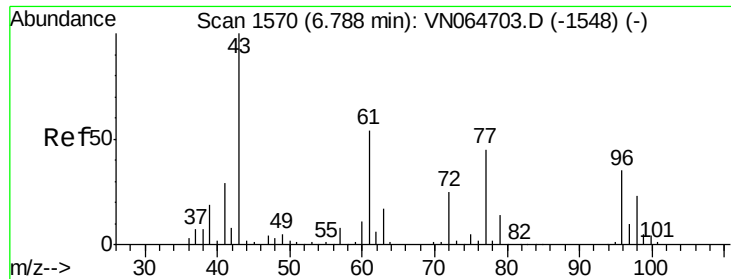
Tot Ion: 73 Resp: 616382  
Ion Ratio Lower Upper  
73 100  
57 21.2 17.3 25.9



#20  
Methylene Chloride  
Concen: 0.218 ug/l  
RT: 4.51 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

Tgt Ion: 84 Resp: 609  
Ion Ratio Lower Upper  
84 100  
49 165.7 102.4 153.6#  
51 0.0 29.4 44.2#  
86 63.7 51.2 76.8

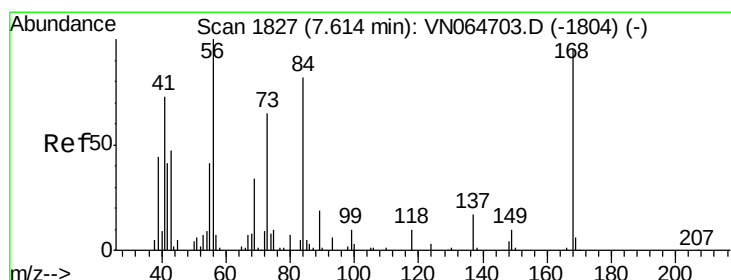
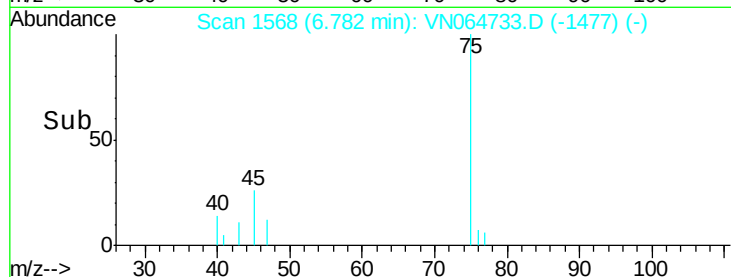
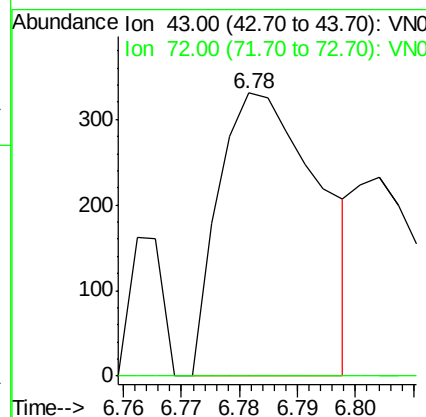
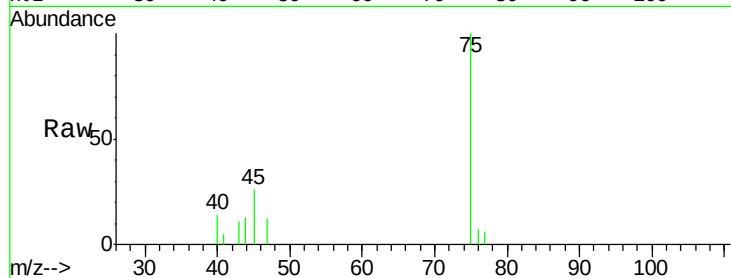




#25  
2-Butanone  
Concen: 0.278 ug/l  
RT: 6.78 min Scan# 1568  
Delta R.T. -0.01 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

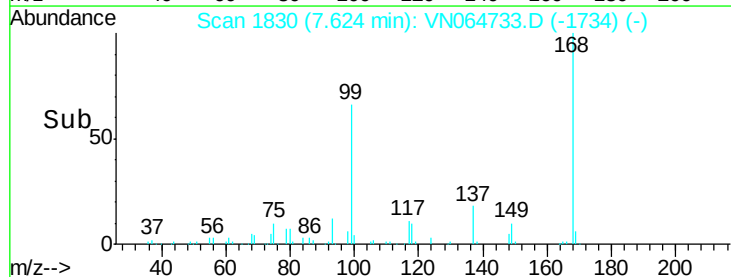
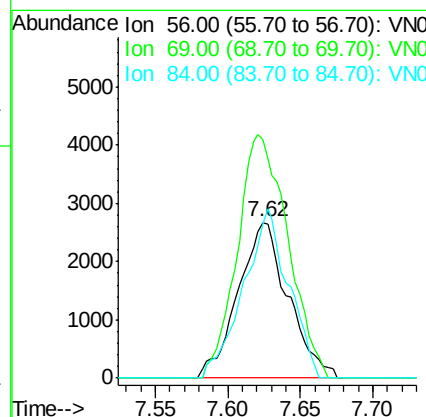
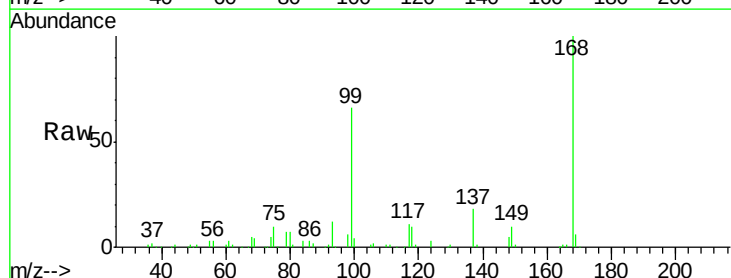
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1DDL

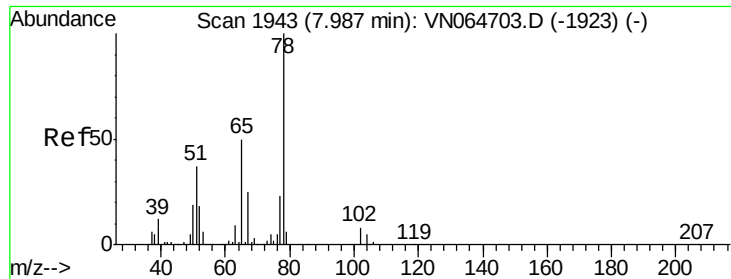
Tot Ion: 43 Resp: 400  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.7 29.5#



#31  
Cyclohexane  
Concen: 1.574 ug/l  
RT: 7.62 min Scan# 1830  
Delta R.T. 0.01 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

Tgt Ion: 56 Resp: 6413  
Ion Ratio Lower Upper  
56 100  
69 153.5 27.2 40.8#  
84 99.5 65.9 98.9#

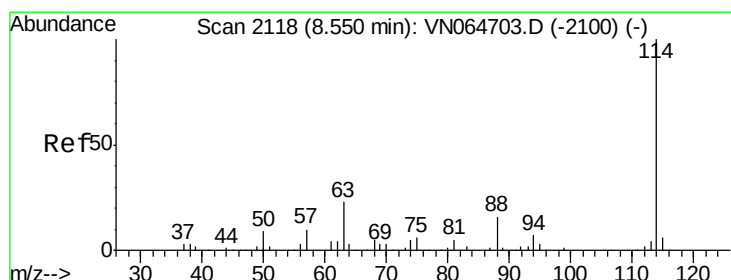
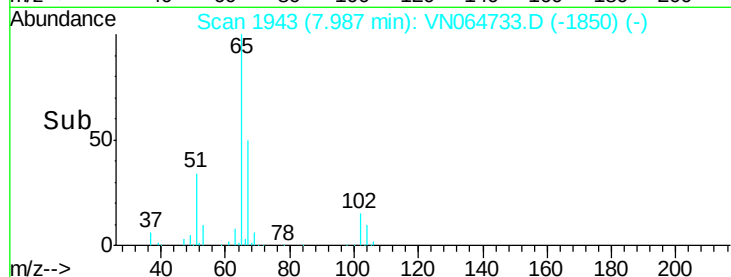
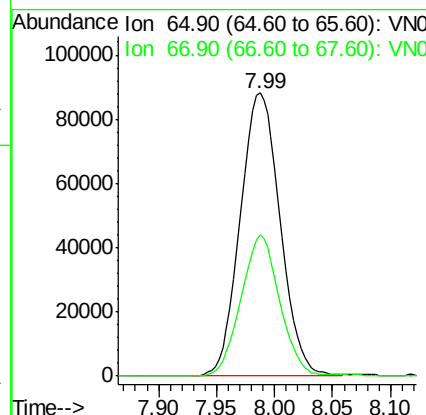
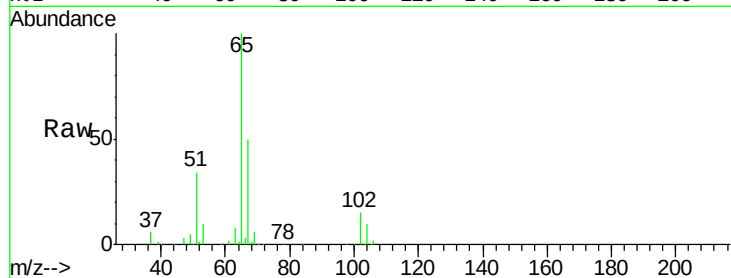




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.038 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. -0.00 min  
 Lab File: VN064733.D  
 Acq: 19 Nov 2020 15:13

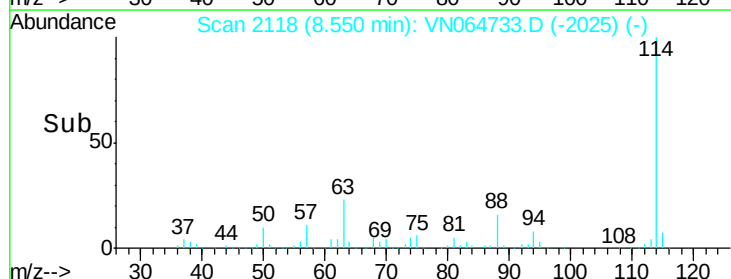
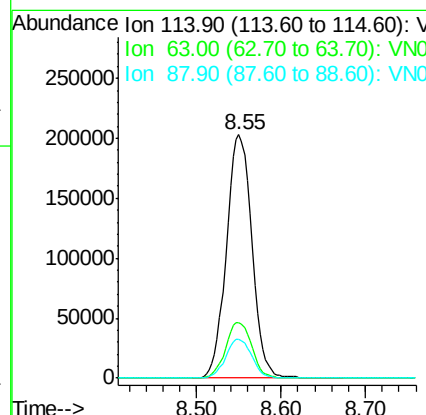
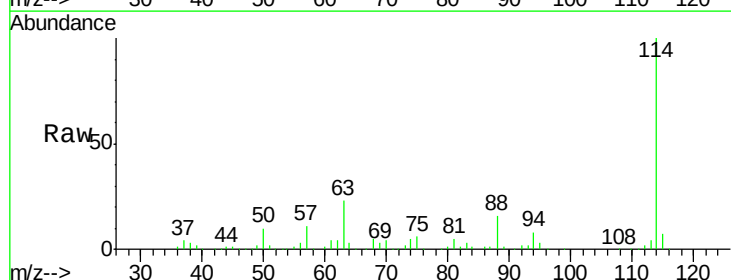
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1DDL

Tot Ion: 65 Resp: 211121  
 Ion Ratio Lower Upper  
 65 100  
 67 48.2 0.0 99.8

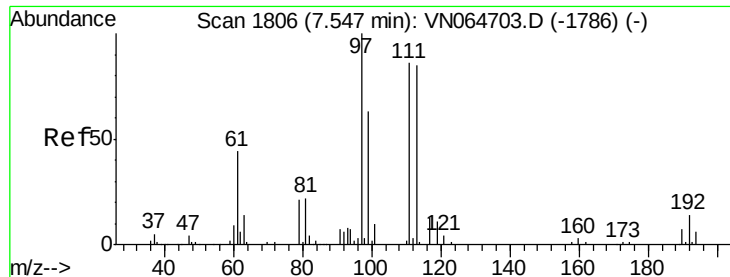


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN064733.D  
 Acq: 19 Nov 2020 15:13

Tgt Ion: 114 Resp: 427199  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 46.0  
 88 16.1 0.0 31.2



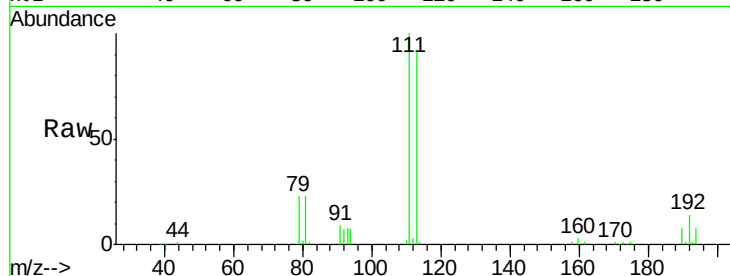




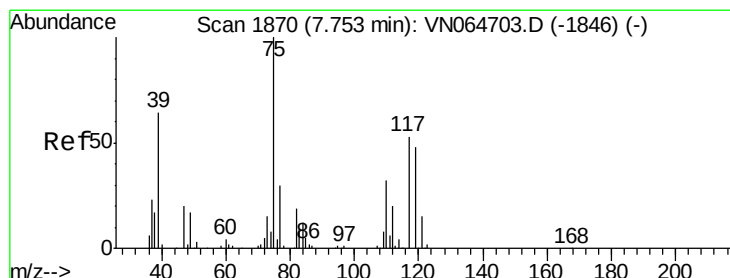
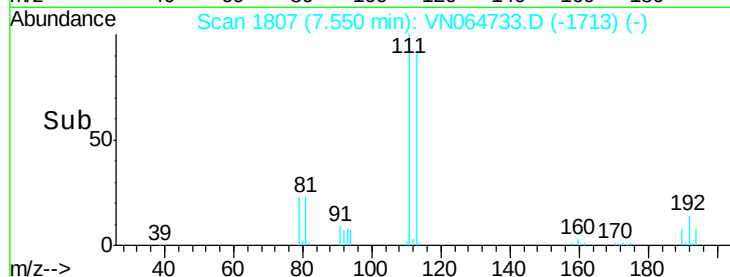
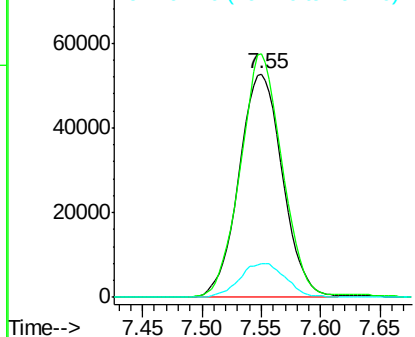
#35  
 Dibromofluoromethane  
 Concen: 55.063 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN064733.D  
 Acq: 19 Nov 2020 15:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1DDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.3 | 82.2  | 123.4 |
| 192     | 16.0  | 12.7  | 19.1  |

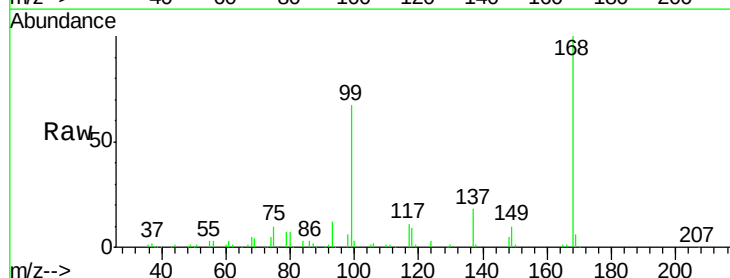


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

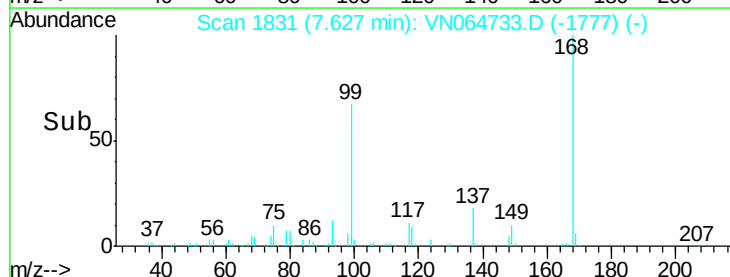
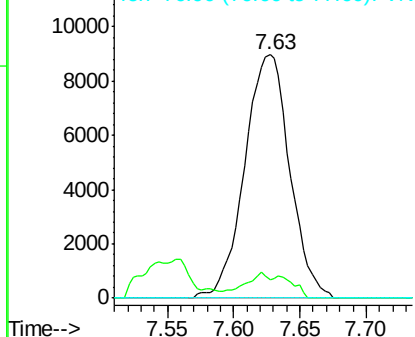


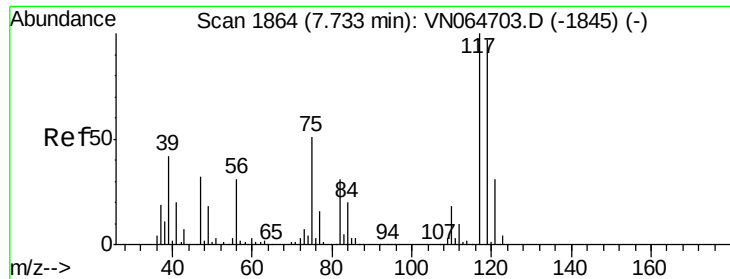
#36  
 1,1-Dichloropropene  
 Concen: 4.835 ug/l  
 RT: 7.63 min Scan# 1831  
 Delta R.T. -0.13 min  
 Lab File: VN064733.D  
 Acq: 19 Nov 2020 15:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 3.2   | 16.2  | 48.6# |
| 77      | 0.0   | 24.4  | 36.6# |



Abundance Ion 74.90 (74.60 to 75.60): VNO  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.207 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

Instrument :

MSVOA\_N

ClientSampleId :

MW-1DDL

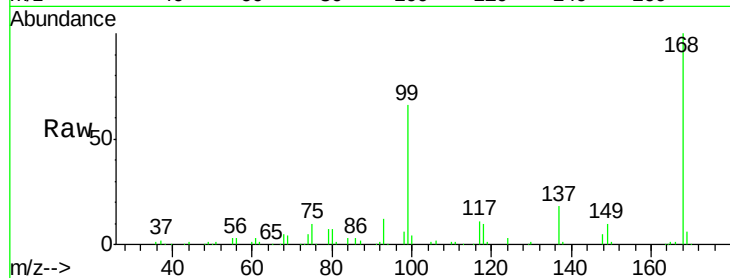
Tot Ion:117 Resp: 24322

Ion Ratio Lower Upper

117 100

119 6.6 77.8 116.6#

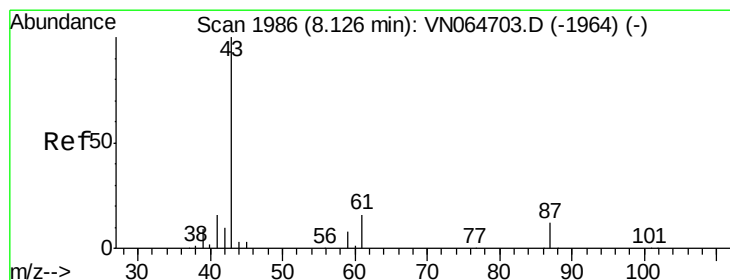
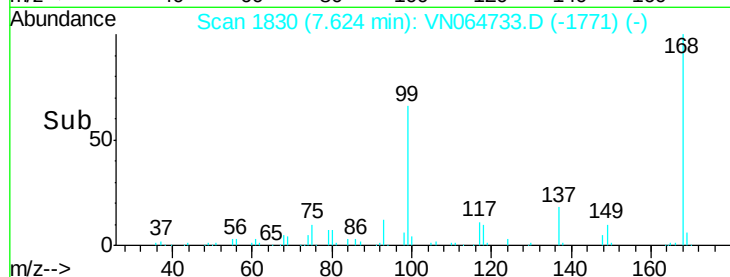
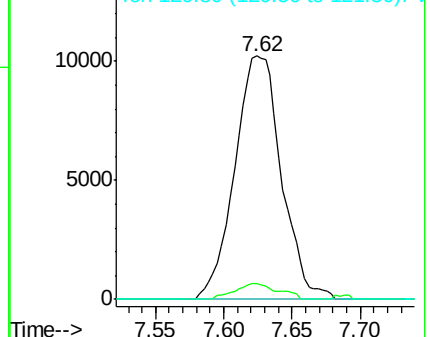
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 0.523 ug/l

RT: 8.10 min Scan# 1979

Delta R.T. -0.02 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

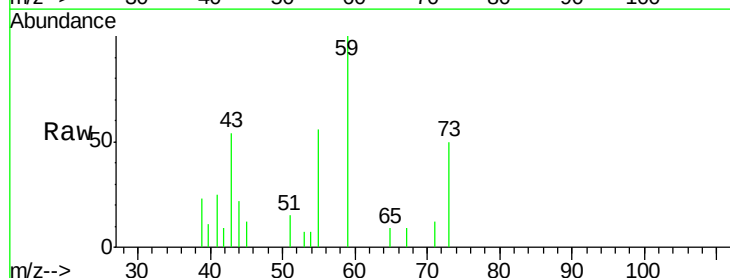
Tgt Ion: 43 Resp: 3728

Ion Ratio Lower Upper

43 100

61 0.0 14.1 21.1#

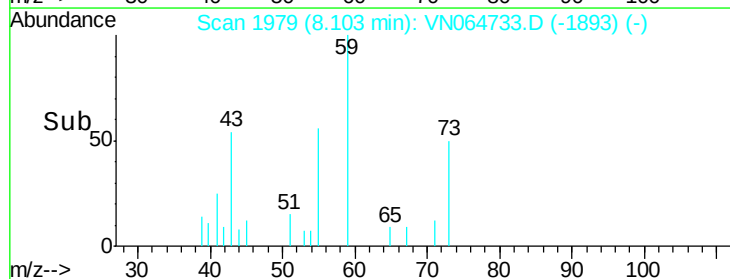
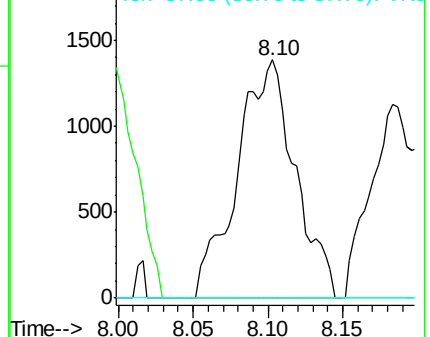
87 0.0 9.1 13.7#

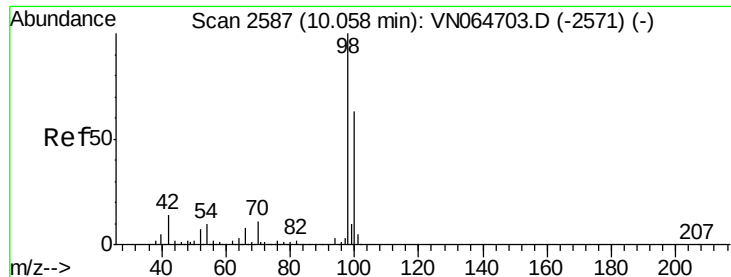


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

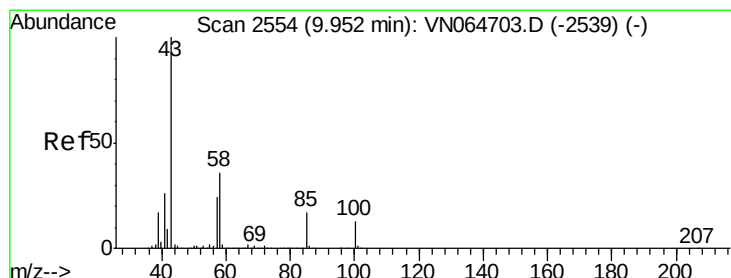
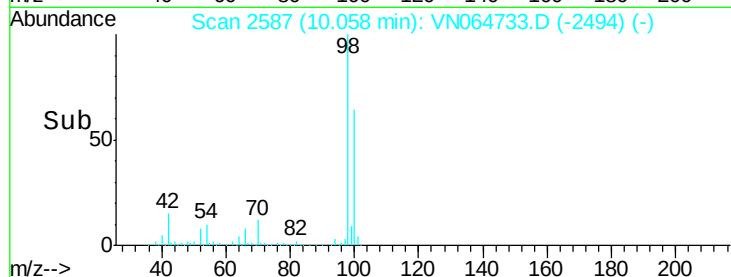
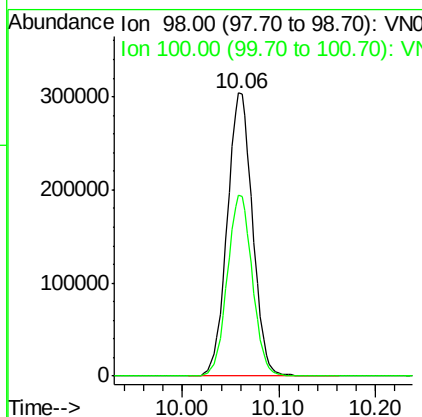
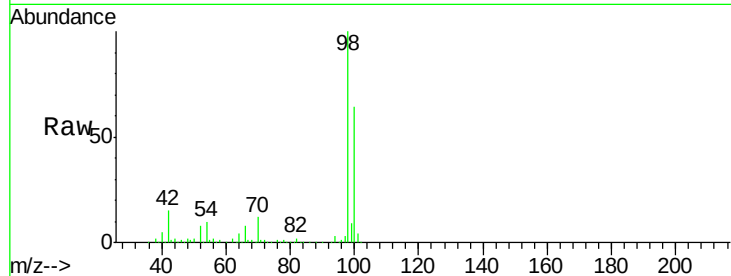




#50  
Toluene-d8  
Concen: 50.017 ug/l  
RT: 10.06 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

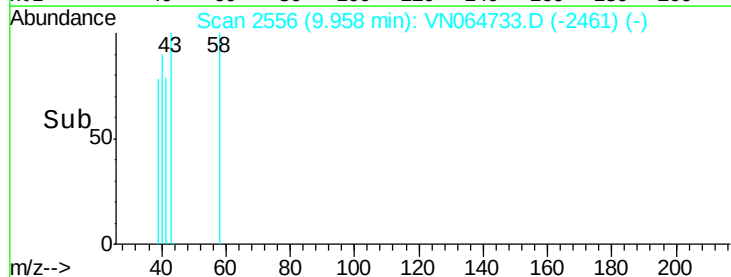
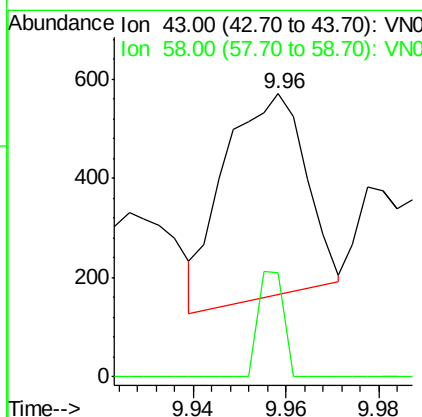
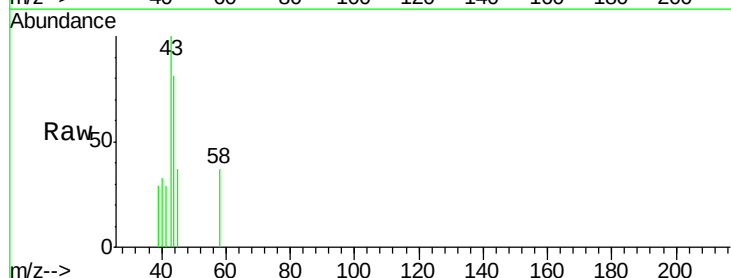
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1DDL

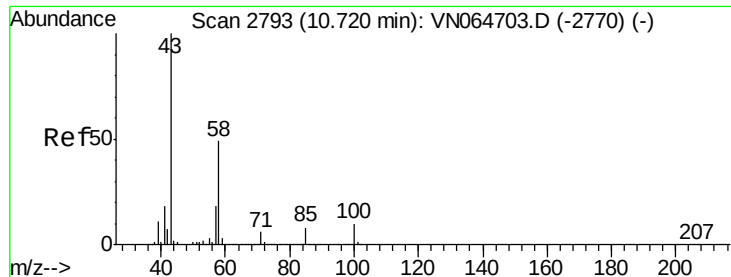
Tot Ion: 98 Resp: 552726  
Ion Ratio Lower Upper  
98 100  
100 63.3 50.4 75.6



#51  
4-Methyl-2-Pentanone  
Concen: 6.243 ug/l  
RT: 9.96 min Scan# 2556  
Delta R.T. 0.01 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

Tgt Ion: 43 Resp: 501  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.5 42.7#





#59

2-Hexanone

Concen: 8.468 ug/l

RT: 10.73 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

Instrument :

MSVOA\_N

ClientSampleId :

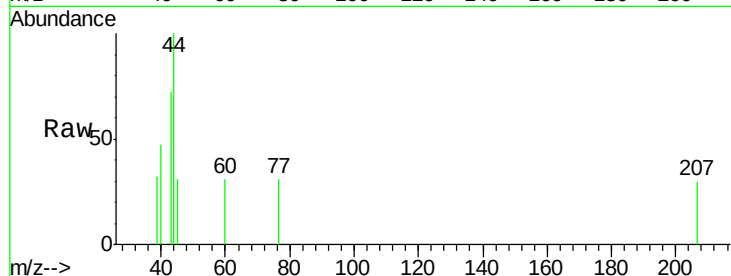
MW-1DDL

Tot Ion: 43 Resp: 95

Ion Ratio Lower Upper

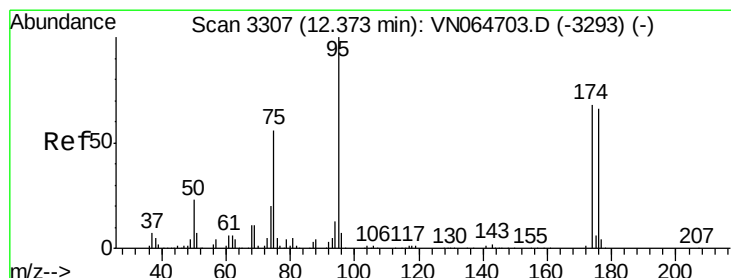
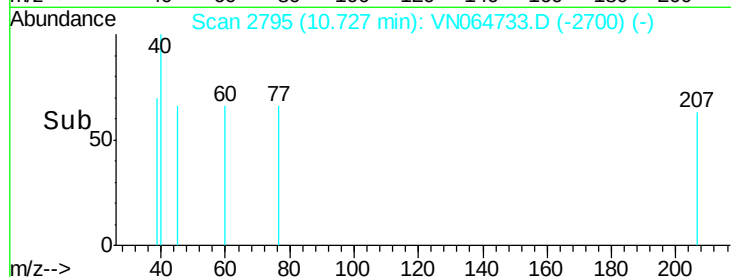
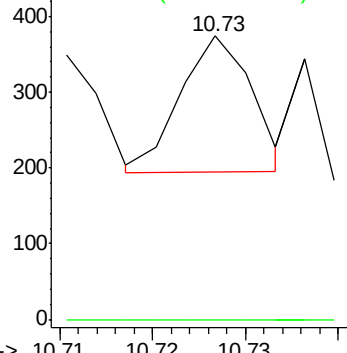
43 100

58 0.0 24.4 73.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 53.124 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

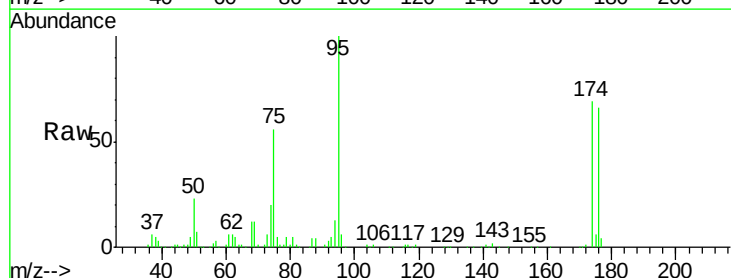
Tgt Ion: 95 Resp: 219431

Ion Ratio Lower Upper

95 100

174 69.3 0.0 136.8

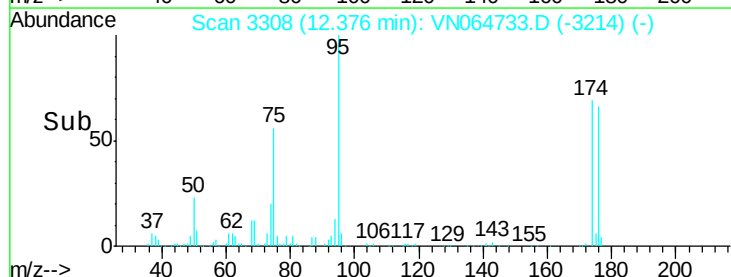
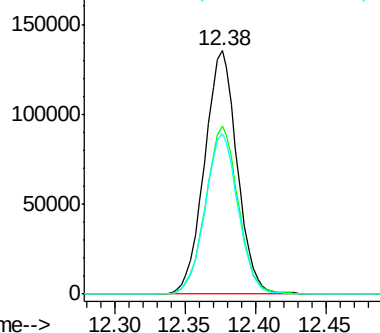
176 66.5 0.0 134.2

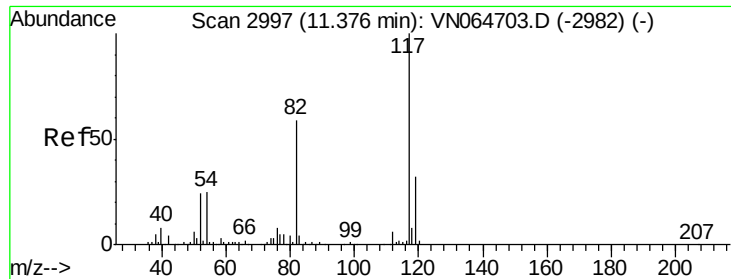


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

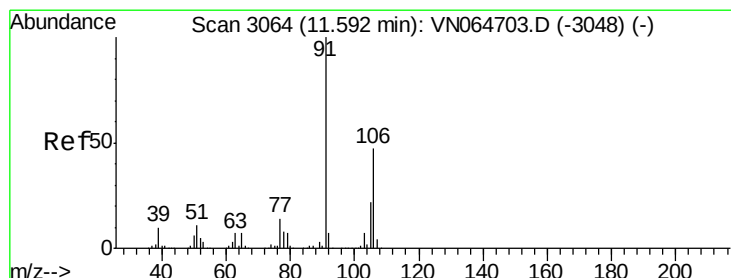
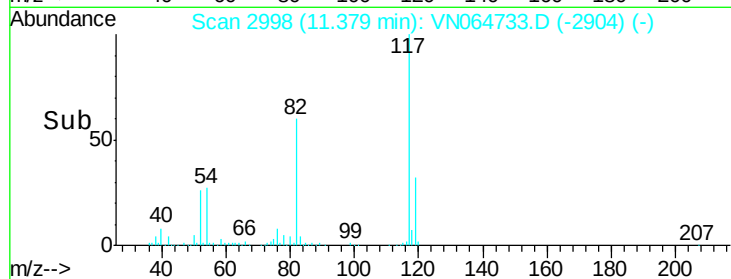
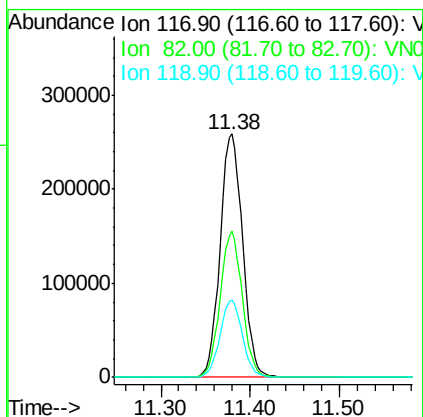
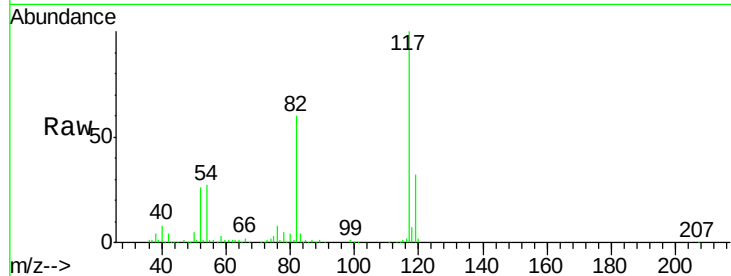




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

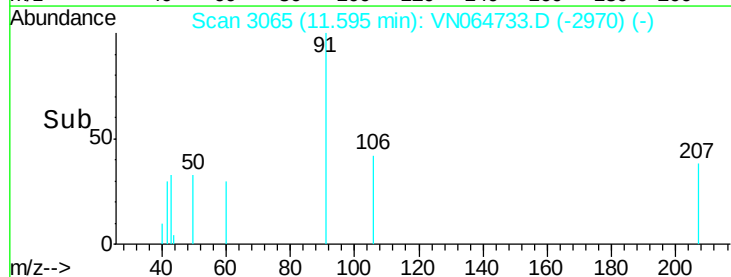
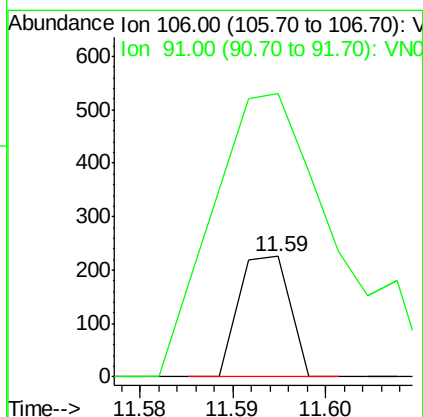
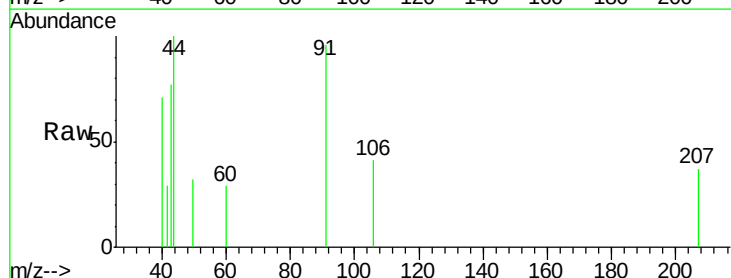
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1DDL

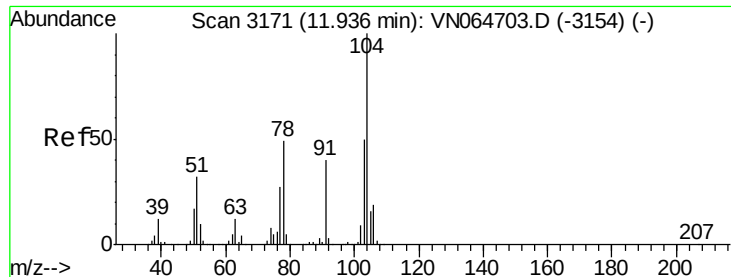
Tot Ion:117 Resp: 451847  
Ion Ratio Lower Upper  
117 100  
82 60.0 47.0 70.6  
119 32.0 25.4 38.2



#68  
m/p-Xylenes  
Concen: 4.074 ug/l  
RT: 11.59 min Scan# 3065  
Delta R.T. 0.00 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

Tgt Ion:106 Resp: 86  
Ion Ratio Lower Upper  
106 100  
91 567.4 171.9 257.9#

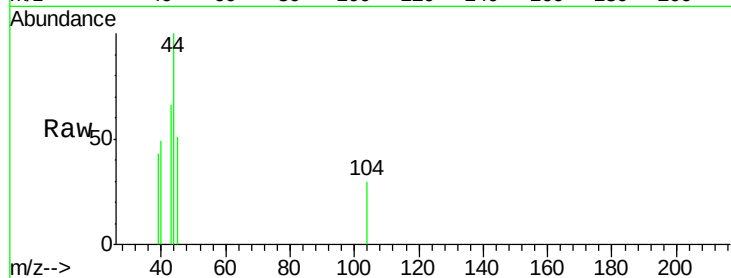




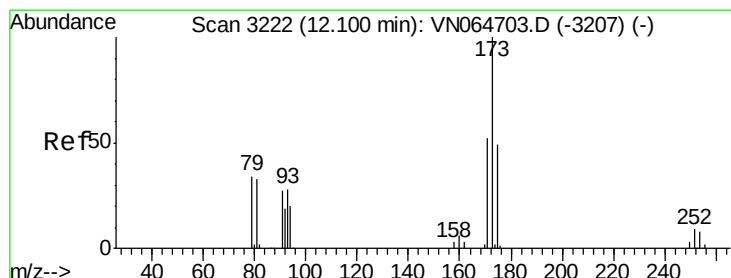
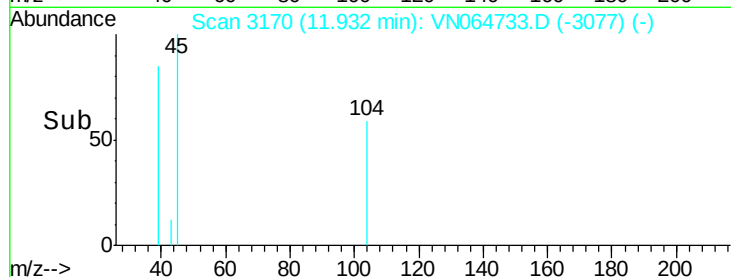
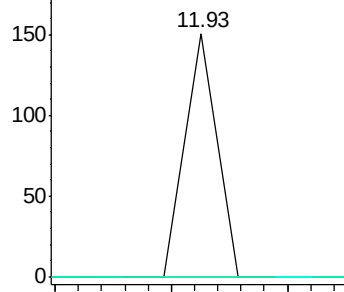
#70  
Stvrene  
Concen: 2.539 ug/l  
RT: 11.93 min Scan# 3170  
Delta R.T. -0.00 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1DDL

Tot Ion:104 Resp: 29  
Ion Ratio Lower Upper  
104 100  
78 0.0 44.1 66.1#  
103 0.0 43.7 65.5#

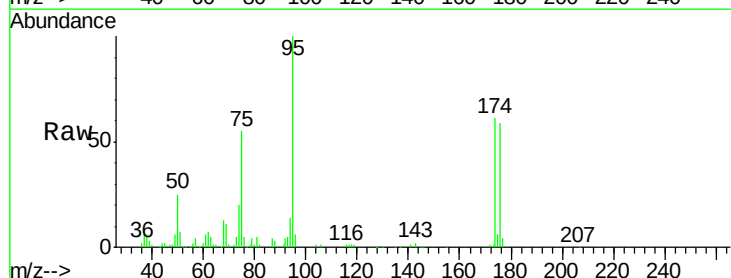


Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): V  
Ion 103.00 (102.70 to 103.70): V

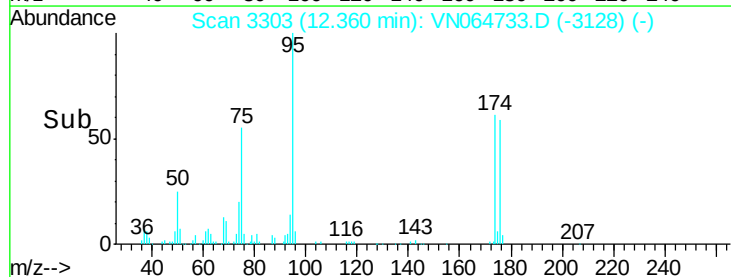
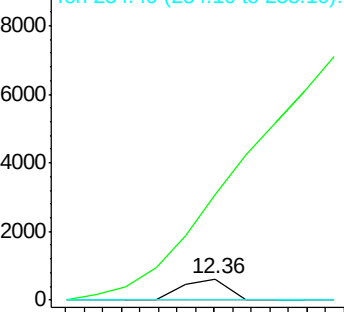


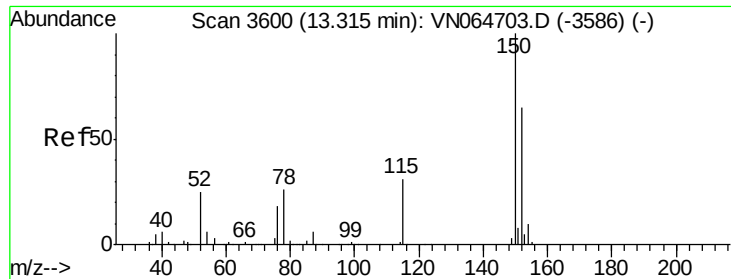
#71  
Bromoform  
Concen: 2.519 ug/l  
RT: 12.36 min Scan# 3303  
Delta R.T. 0.26 min  
Lab File: VN064733.D  
Acq: 19 Nov 2020 15:13

Tgt Ion:173 Resp: 211  
Ion Ratio Lower Upper  
173 100  
175 5044.1 24.3 72.9#  
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: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064733.D

Acq: 19 Nov 2020 15:13

Instrument :

MSVOA\_N

ClientSampleId :

MW-1DDL

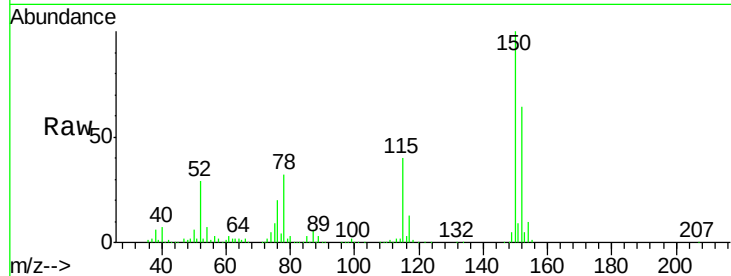
Tot Ion:152 Resp: 191026

Ion Ratio Lower Upper

152 100

115 62.7 32.1 96.3

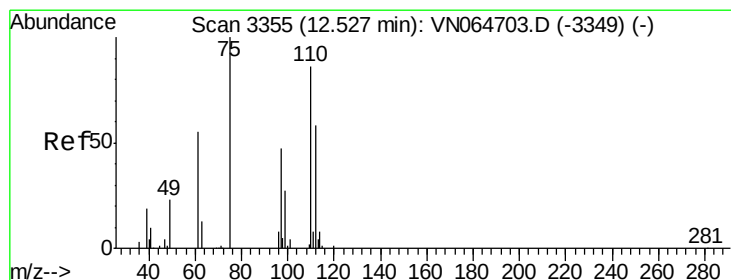
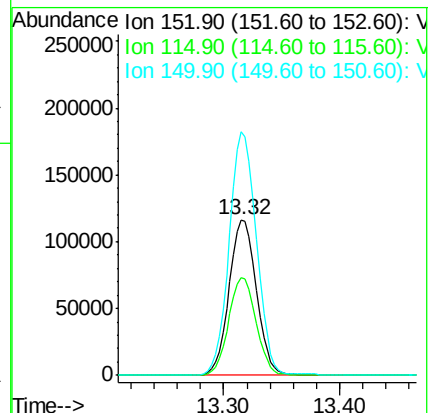
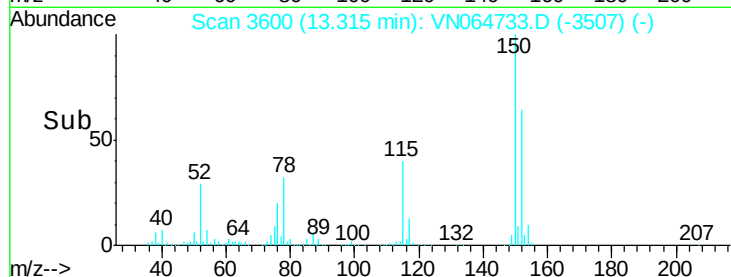
150 155.1 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 30.373 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064733.D

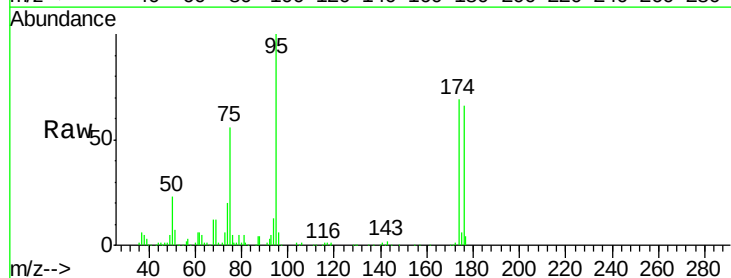
Acq: 19 Nov 2020 15:13

Tgt Ion: 75 Resp: 125012

Ion Ratio Lower Upper

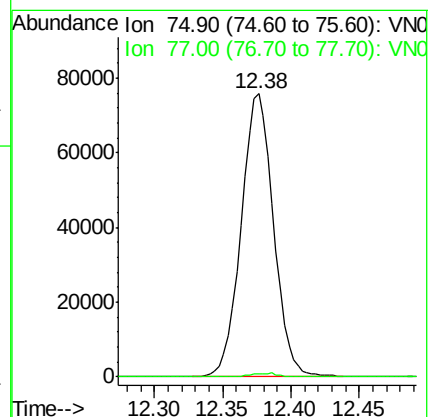
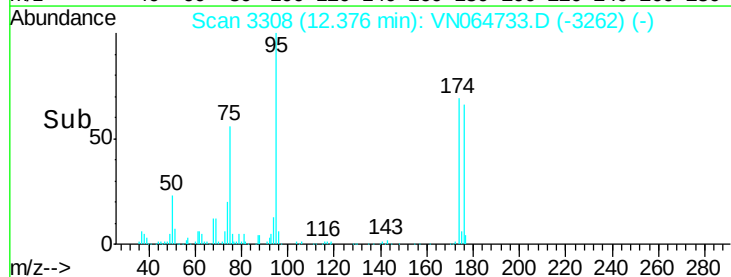
75 100

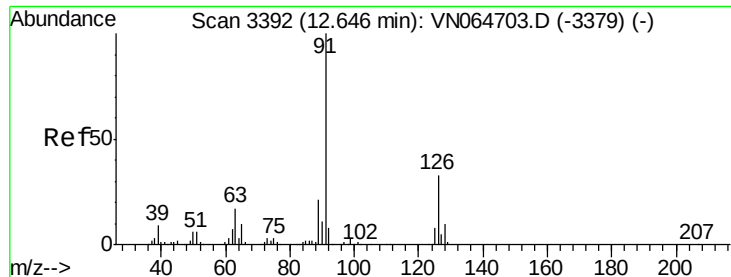
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

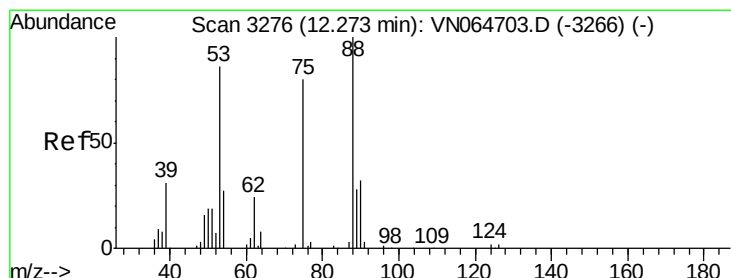
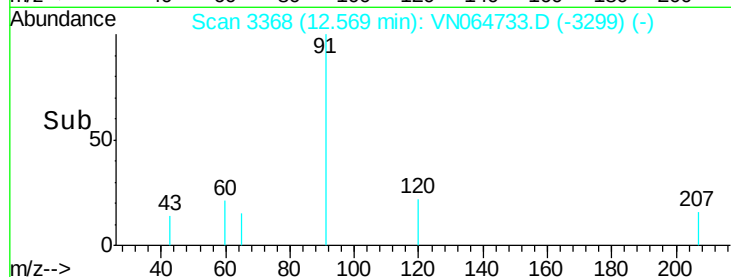
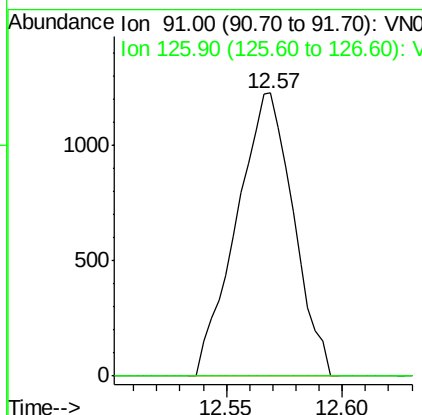
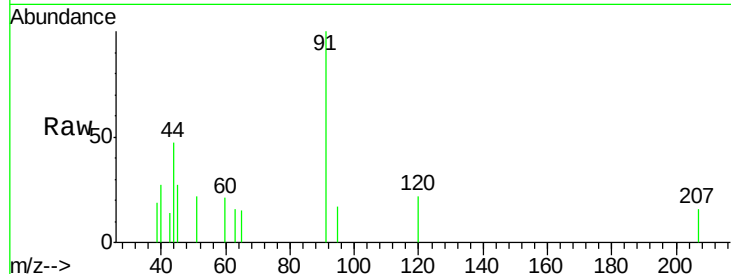




#79  
 2-Chlorotoluene  
 Concen: 0.207 ug/l  
 RT: 12.57 min Scan# 3368  
 Delta R.T. -0.08 min  
 Lab File: VN064733.D  
 Acq: 19 Nov 2020 15:13

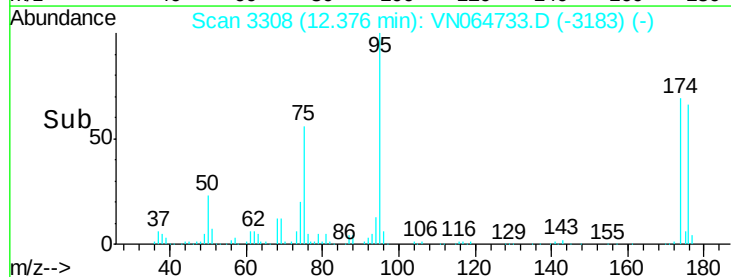
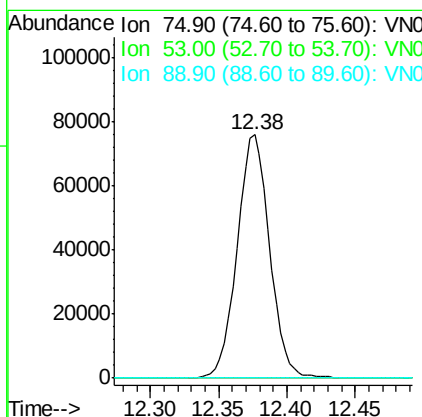
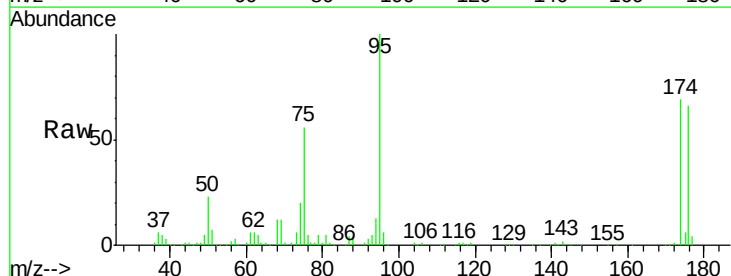
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-1DDL

Tot Ion: 91 Resp: 2093  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 16.0 48.0#

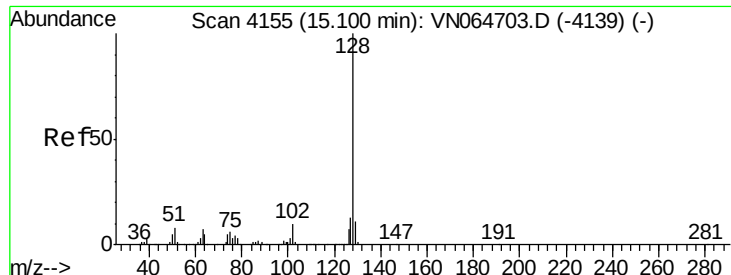


#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 77.406 ug/l  
 RT: 12.38 min Scan# 3308  
 Delta R.T. 0.10 min  
 Lab File: VN064733.D  
 Acq: 19 Nov 2020 15:13

Tgt Ion: 75 Resp: 125012  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 88.8 133.2#  
 89 0.0 43.1 64.7#







#95

Naphthalene

Concen: 0.211 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN064733.D

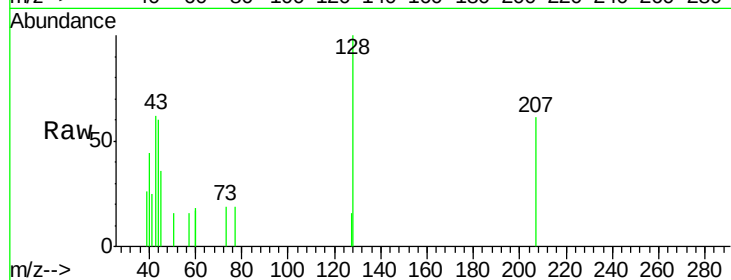
Acq: 19 Nov 2020 15:13

Instrument :

MSVOA\_N

ClientSampleId :

MW-1DDL



Tot Ion:128 Resp: 2262

Ion Ratio Lower Upper

128 100

127 1.4 10.8 16.2#

129 0.0 8.9 13.3#

