

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN081020\  
 Data File : VN062798.D  
 Acq On : 10 Aug 2020 10:25  
 Operator : JC/MD  
 Sample : VN0810WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0810WBL01

Quant Time: Aug 10 11:13:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 120652   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 208302   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 210320   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 75553    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.99   | 65  | 101883   | 51.06 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.12% |      |
| 35) Dibromofluoromethane    | 7.55   | 113 | 73185    | 51.36 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.72% |      |
| 50) Toluene-d8              | 10.06  | 98  | 267332   | 48.06 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.12%  |      |
| 62) 4-Bromofluorobenzene    | 12.38  | 95  | 98319    | 46.77 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.54%  |      |

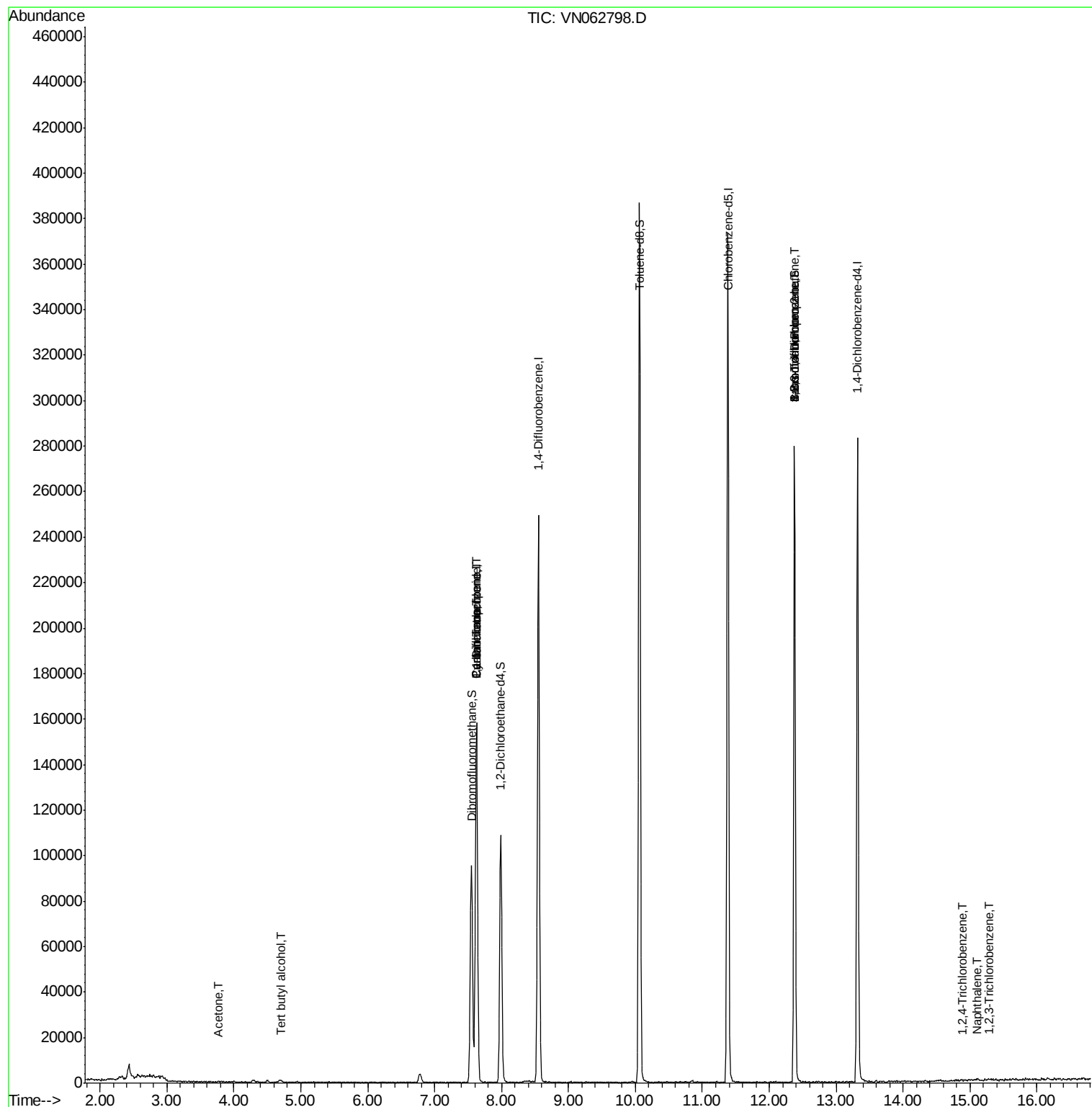
| Target Compounds               |       |     |       |           | Qvalue |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| 11) Tert butyl alcohol         | 4.71  | 59  | 271   | 0.829     | ug/l # | 72  |
| 16) Acetone                    | 3.77  | 43  | 164   | 0.227     | ug/l # | 45  |
| 17) Carbon Disulfide           | 4.01  | 76  | 271   | Below Cal | #      | 74  |
| 20) Methylene Chloride         | 4.50  | 84  | 377   | Below Cal | #      | 83  |
| 31) Cyclohexane                | 7.63  | 56  | 2750  | 1.137     | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.62  | 75  | 10599 | 5.226     | ug/l # | 51  |
| 38) Carbon Tetrachloride       | 7.63  | 117 | 13304 | 5.546     | ug/l # | 15  |
| 71) Bromoform                  | 12.37 | 173 | 582   | 0.403     | ug/l # | 29  |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75  | 53781 | 26.395    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75  | 53781 | 80.575    | ug/l # | 10  |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180 | 93    | 3.390     | ug/l # | 62  |
| 95) Naphthalene                | 15.11 | 128 | 641   | 3.879     | ug/l # | 68  |
| 96) 1,2,3-Trichlorobenzene     | 15.29 | 180 | 125   | 2.835     | ug/l # | 4   |

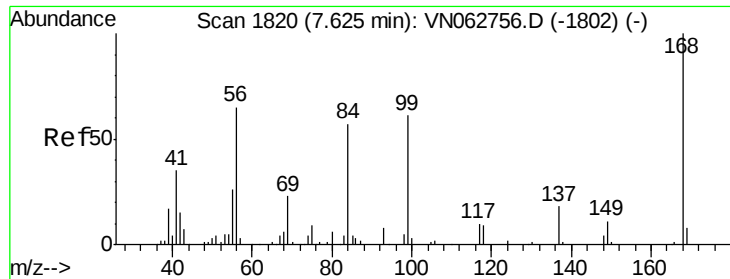
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN081020\  
Data File : VN062798.D  
Acq On : 10 Aug 2020 10:25  
Operator : JC/MD  
Sample : VN0810WBL01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0810WBL01

Quant Time: Aug 10 11:13:42 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:26:42 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062798.D

Acq: 10 Aug 2020 10:25

Instrument :

MSVOA\_N

ClientSampleId :

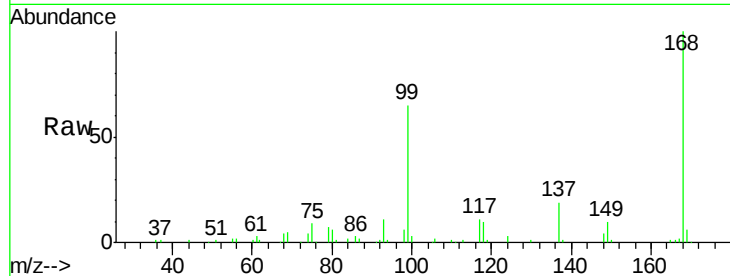
VN0810WBL01

Tgt Ion:168 Resp: 120652

Ion Ratio Lower Upper

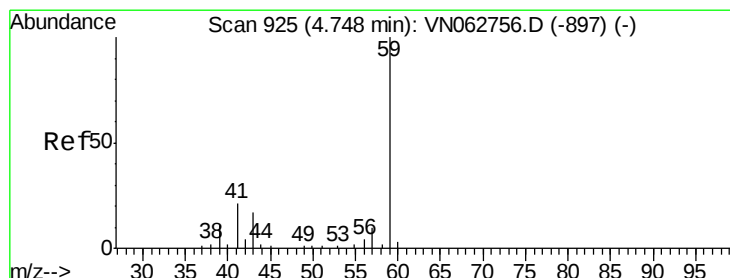
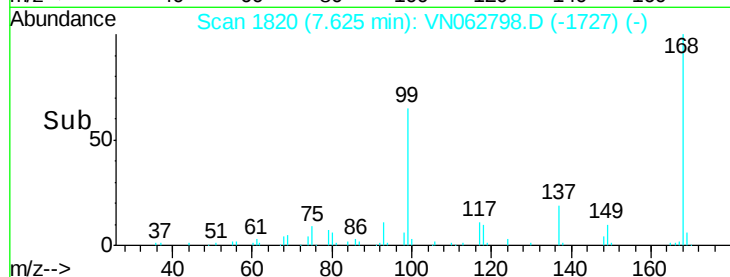
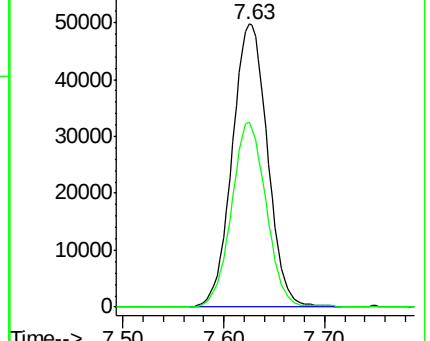
168 100

99 65.3 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.829 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.04 min

Lab File: VN062798.D

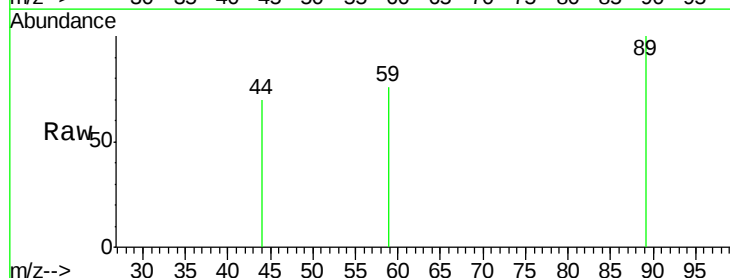
Acq: 10 Aug 2020 10:25

Tgt Ion: 59 Resp: 271

Ion Ratio Lower Upper

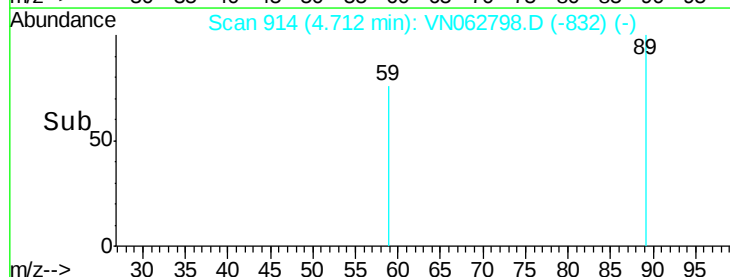
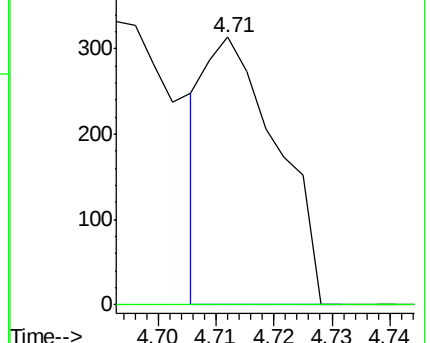
59 100

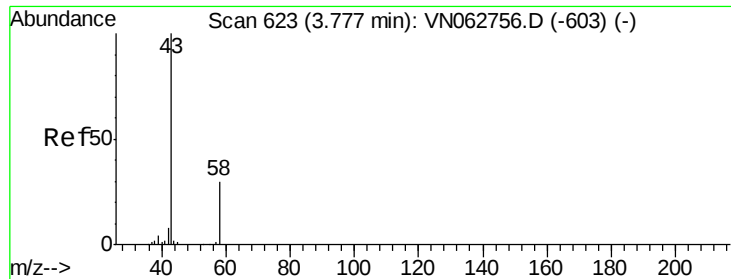
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 0.227 ug/l

RT: 3.77 min Scan# 621

Delta R.T. -0.01 min

Lab File: VN062798.D

Acq: 10 Aug 2020 10:25

Instrument :

MSVOA\_N

ClientSampleId :

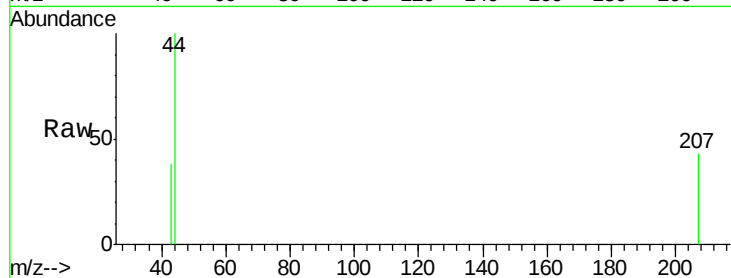
VN0810WBL01

Tgt Ion: 43 Resp: 164

Ion Ratio Lower Upper

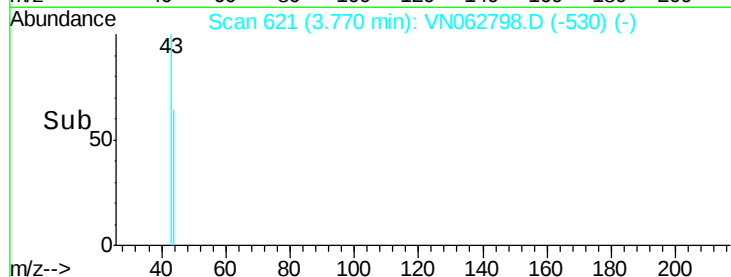
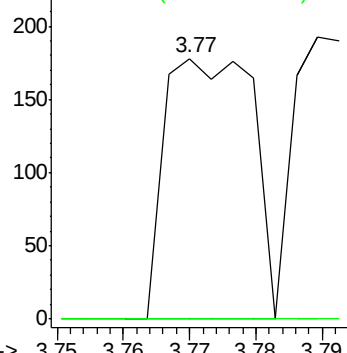
43 100

58 0.0 24.1 36.1#

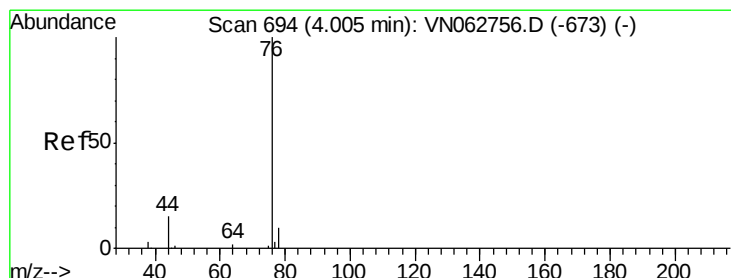


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN062798.D

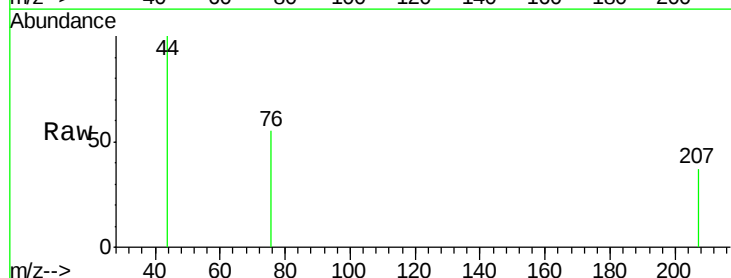
Acq: 10 Aug 2020 10:25

Tgt Ion: 76 Resp: 271

Ion Ratio Lower Upper

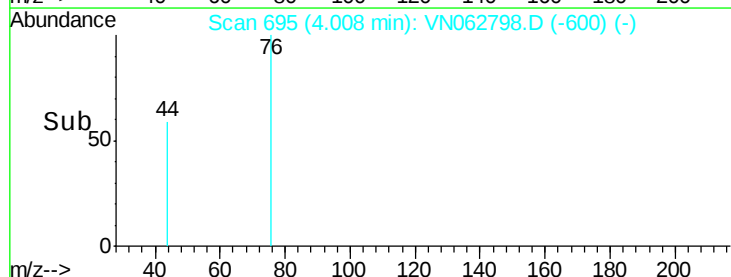
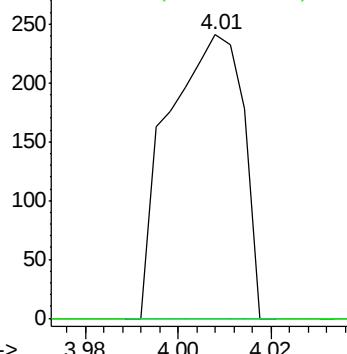
76 100

78 0.0 7.7 11.5#

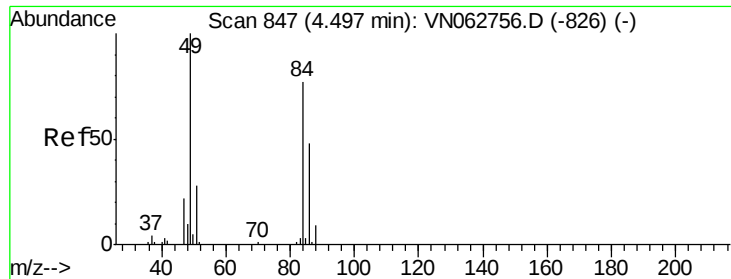


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



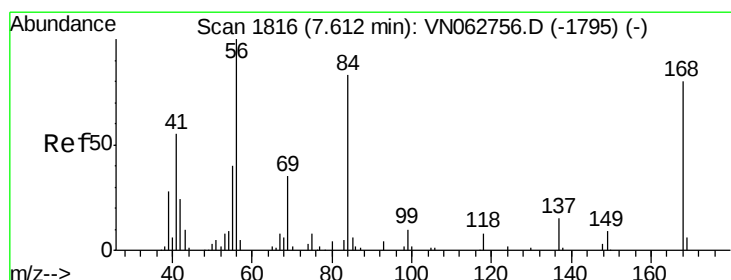
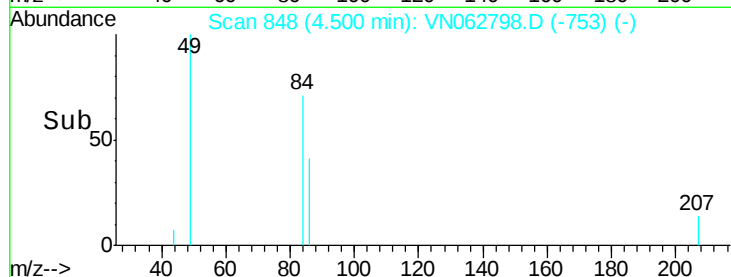
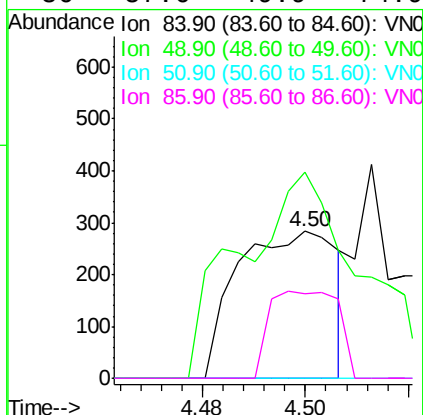
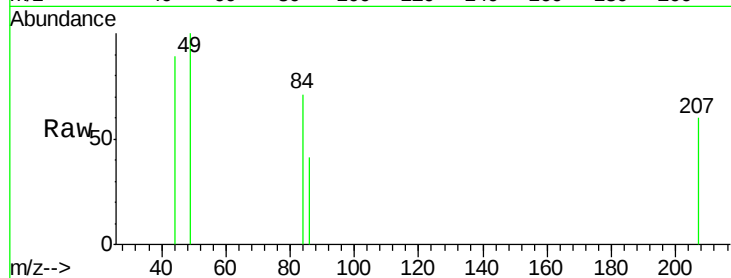
Time-->



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.50 min Scan# 848  
Delta R.T. 0.00 min  
Lab File: VN062798.D  
Acq: 10 Aug 2020 10:25

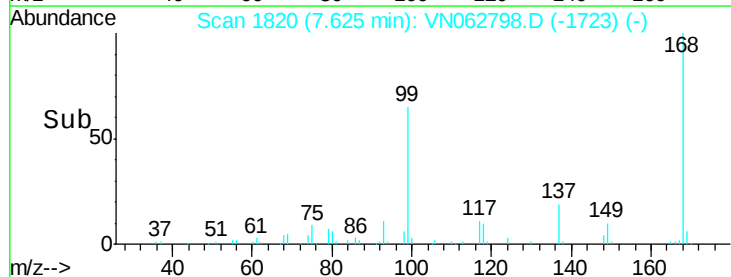
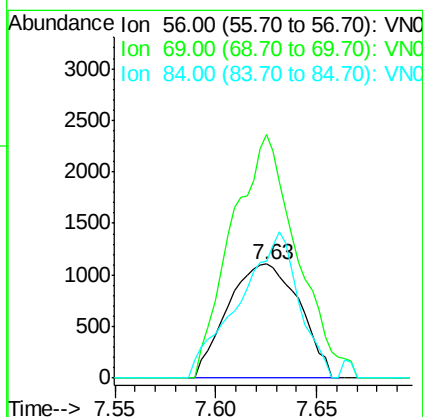
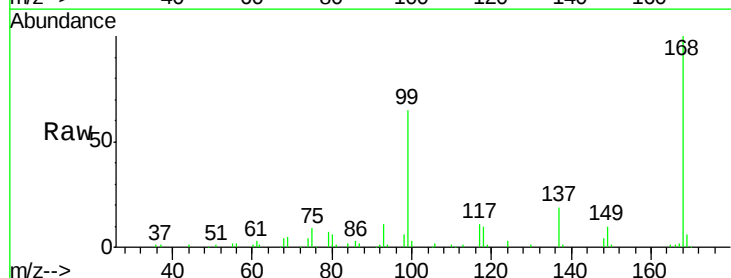
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0810WBL01

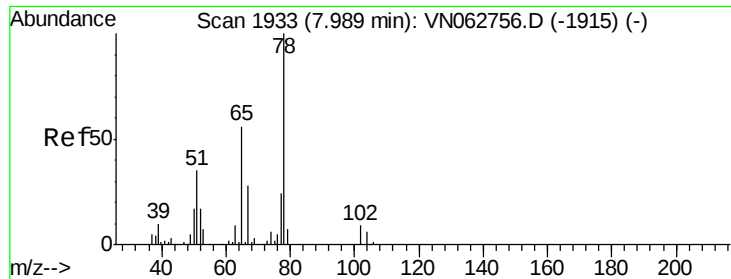
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 377   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 140.3 | 103.4 | 155.2 |
| 51       | 0.0   | 29.3  | 43.9# |
| 86       | 57.6  | 49.9  | 74.9  |



#31  
Cyclohexane  
Concen: 1.137 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: VN062798.D  
Acq: 10 Aug 2020 10:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 2750   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 213.3 | 28.1  | 42.1#  |
| 84       | 102.7 | 66.8  | 100.2# |

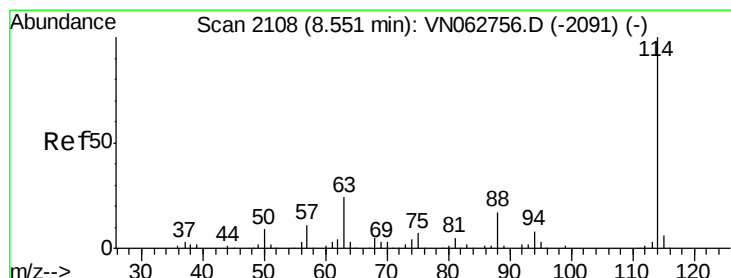
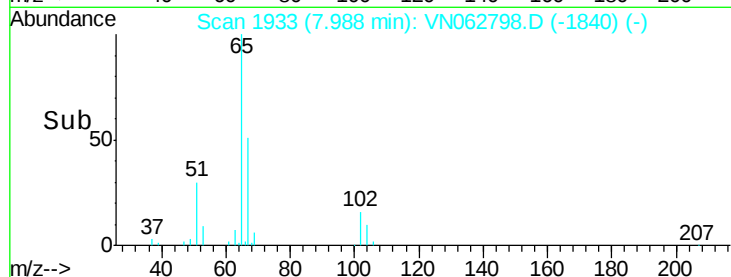
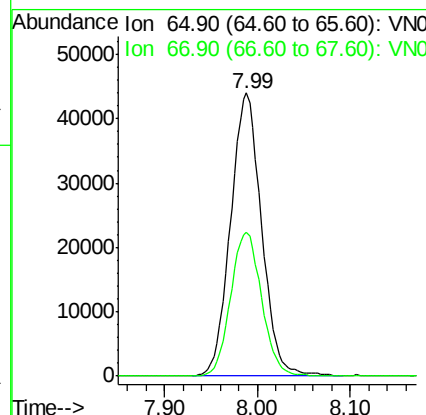
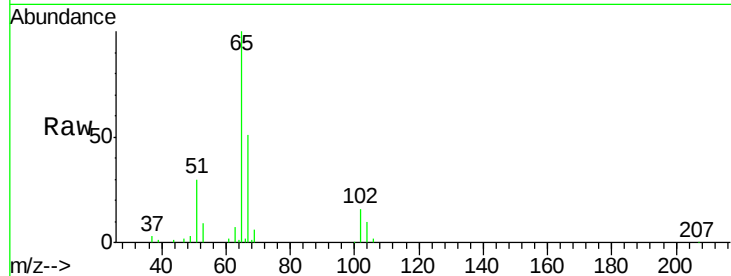




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.064 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. -0.00 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

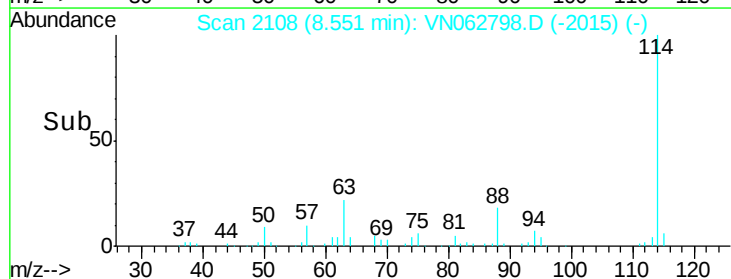
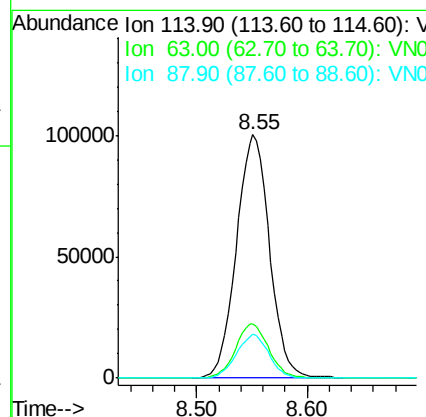
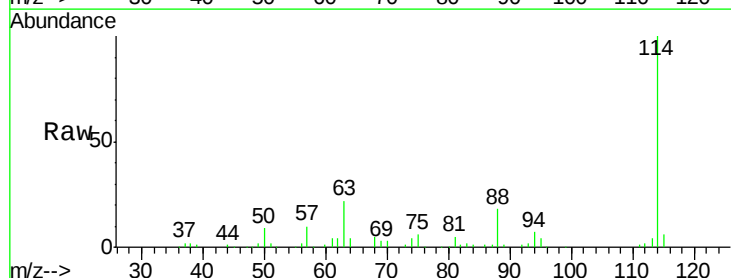
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0810WBL01

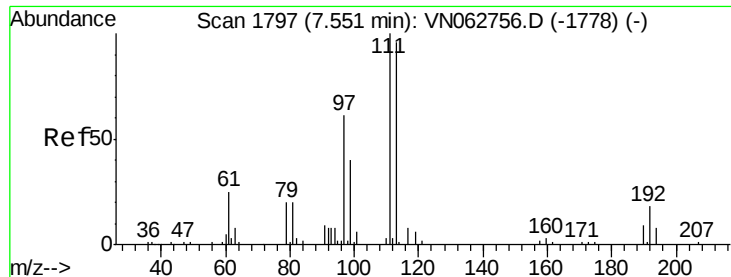
Tgt Ion: 65 Resp: 101883  
 Ion Ratio Lower Upper  
 65 100  
 67 50.7 0.0 101.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

Tgt Ion: 114 Resp: 208302  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 47.6  
 88 18.0 0.0 34.4

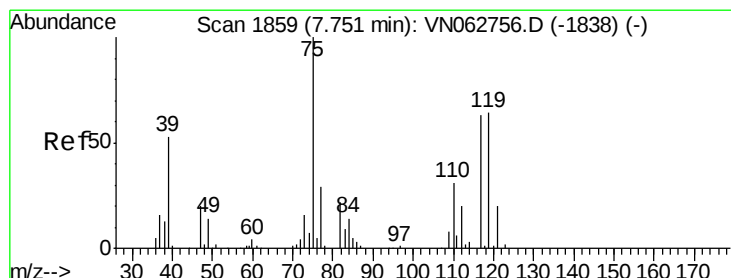
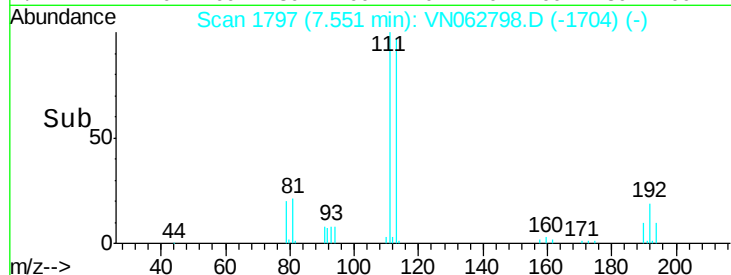
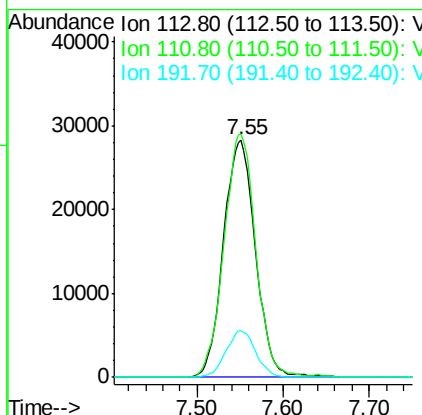
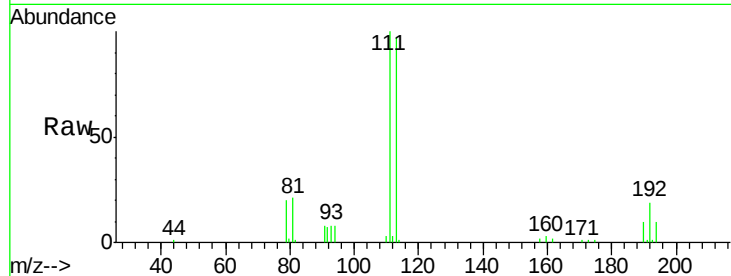




#35  
 Dibromofluoromethane  
 Concen: 51.361 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. -0.00 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

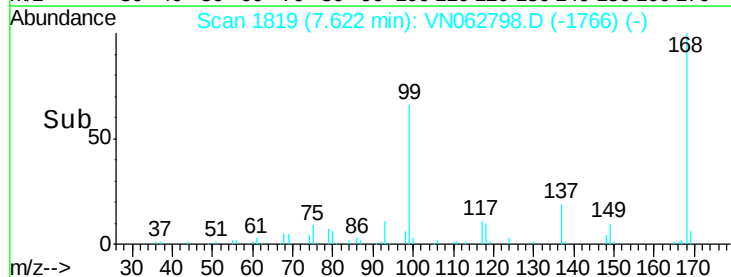
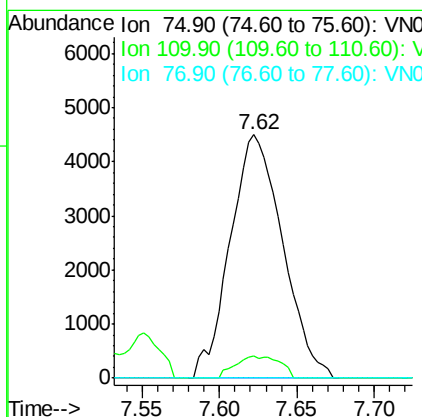
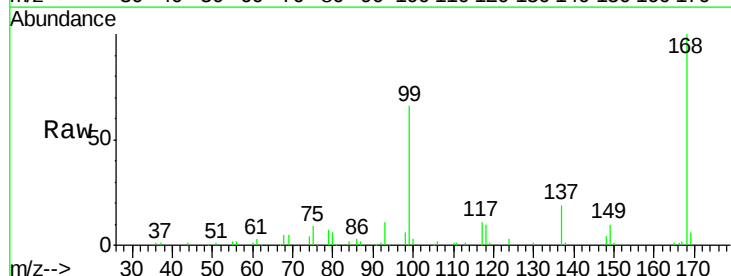
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0810WBL01

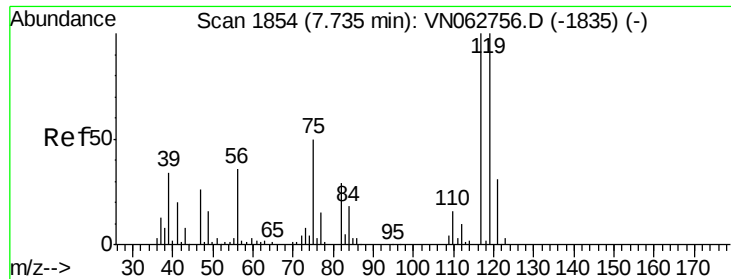
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 81.8  | 122.6 |
| 192     | 18.3  | 15.0  | 22.4  |



#36  
 1,1-Dichloropropene  
 Concen: 5.226 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.13 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.7   | 15.6  | 46.7# |
| 77      | 0.0   | 24.1  | 36.1# |

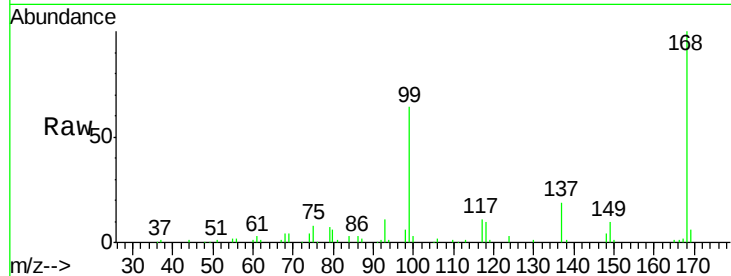




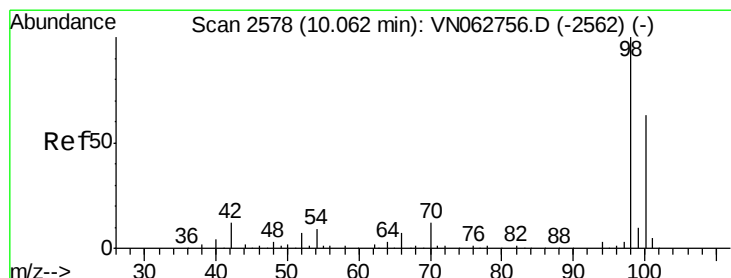
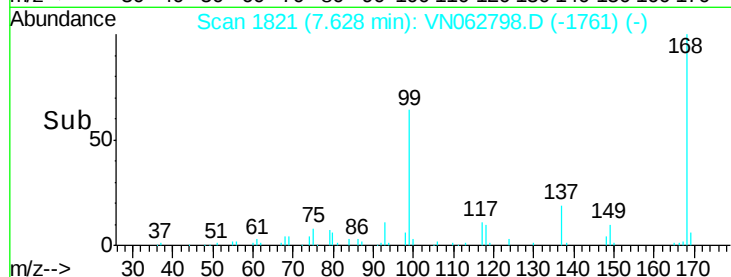
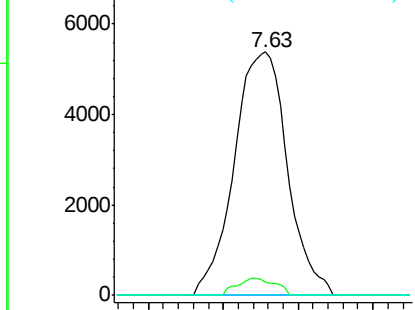
#38  
Carbon Tetrachloride  
Concen: 5.546 ug/l  
RT: 7.63 min Scan# 1821  
Delta R.T. -0.11 min  
Lab File: VN062798.D  
Acq: 10 Aug 2020 10:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0810WBL01

Tgt Ion:117 Resp: 13304  
Ion Ratio Lower Upper  
117 100  
119 5.5 79.4 119.2#  
121 0.0 24.9 37.3#

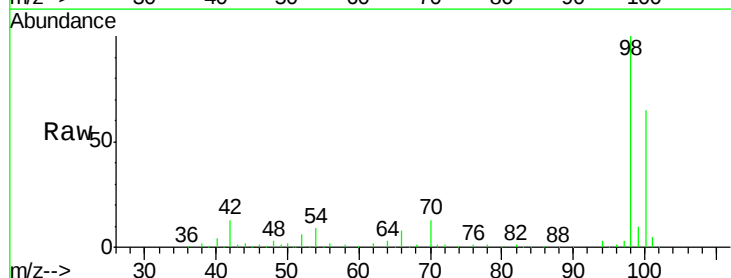


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

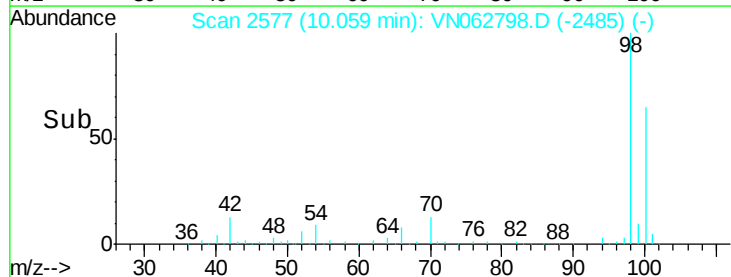
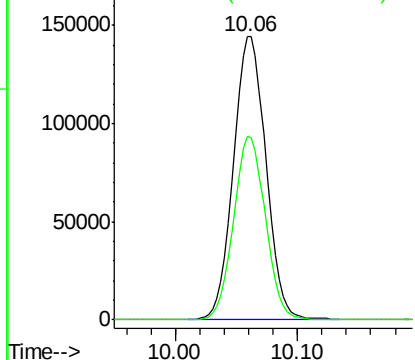


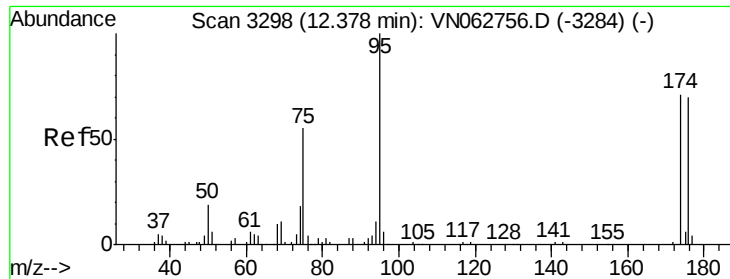
#50  
Toluene-d8  
Concen: 48.056 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. -0.00 min  
Lab File: VN062798.D  
Acq: 10 Aug 2020 10:25

Tgt Ion: 98 Resp: 267332  
Ion Ratio Lower Upper  
98 100  
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN  
Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 46.769 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062798.D

Acq: 10 Aug 2020 10:25

Instrument :

MSVOA\_N

ClientSampleId :

VN0810WBL01

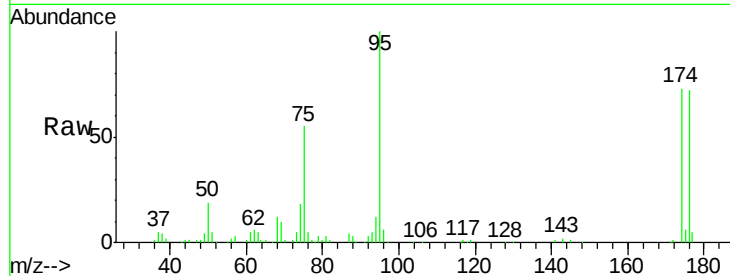
Tgt Ion: 95 Resp: 98319

Ion Ratio Lower Upper

95 100

174 74.1 0.0 144.8

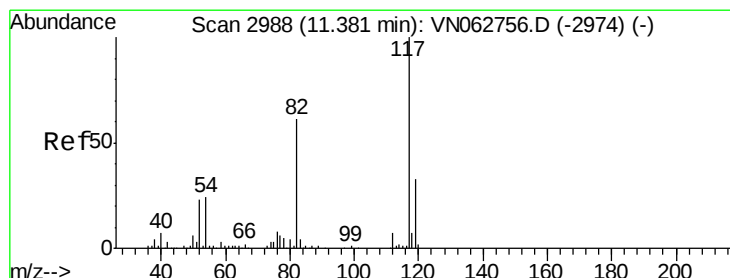
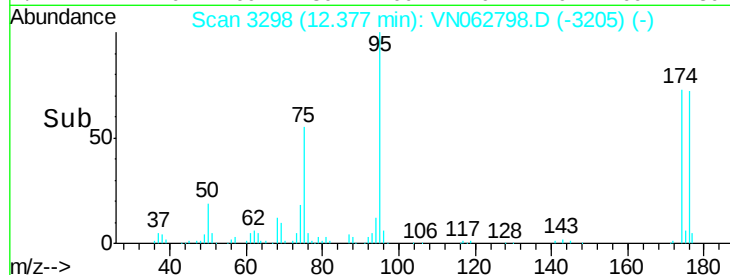
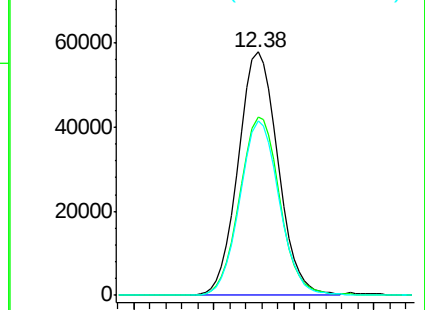
176 71.2 0.0 142.2



Abundance Ion 94.90 (94.60 to 95.60): VN062756.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062756.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062756.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062798.D

Acq: 10 Aug 2020 10:25

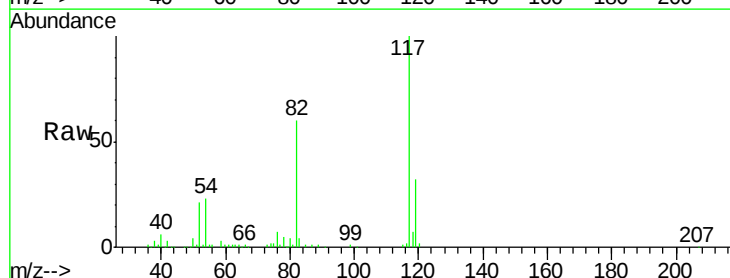
Tgt Ion: 117 Resp: 210320

Ion Ratio Lower Upper

117 100

82 60.1 49.0 73.4

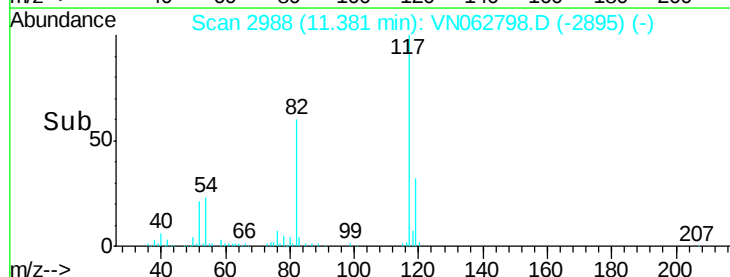
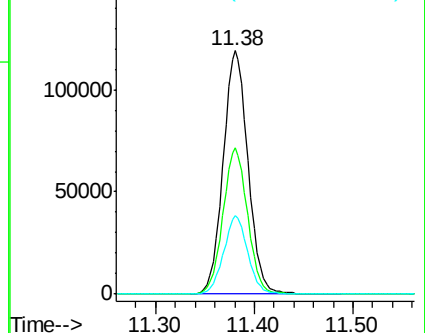
119 32.4 26.2 39.2

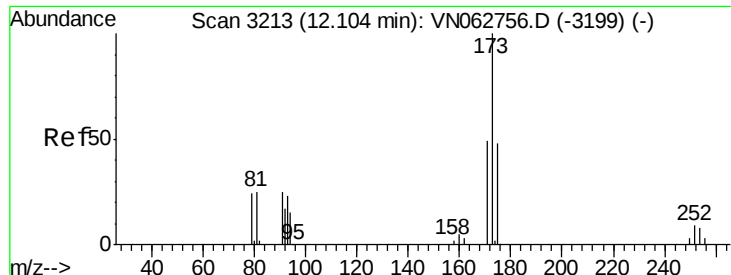


Abundance Ion 116.90 (116.60 to 117.60): VN062756.D (-2974) (-)

Ion 82.00 (81.70 to 82.70): VN062756.D (-2974) (-)

Ion 118.90 (118.60 to 119.60): VN062756.D (-2974) (-)





#71

Bromoform

Concen: 0.403 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062798.D

Acq: 10 Aug 2020 10:25

Instrument :

MSVOA\_N

ClientSampleId :

VN0810WBL01

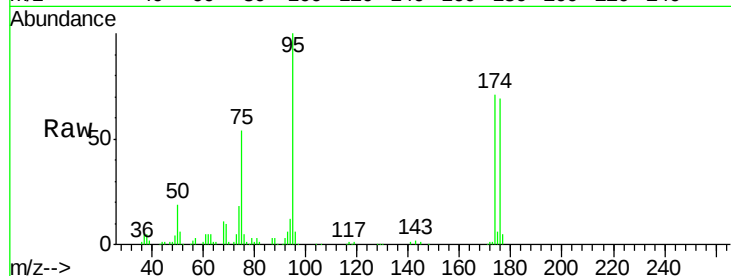
Tgt Ion:173 Resp: 582

Ion Ratio Lower Upper

173 100

175 0.0 24.0 72.0#

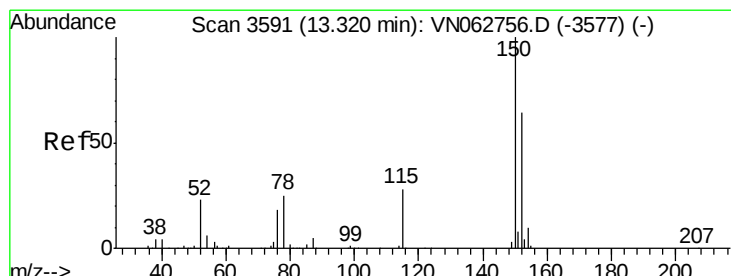
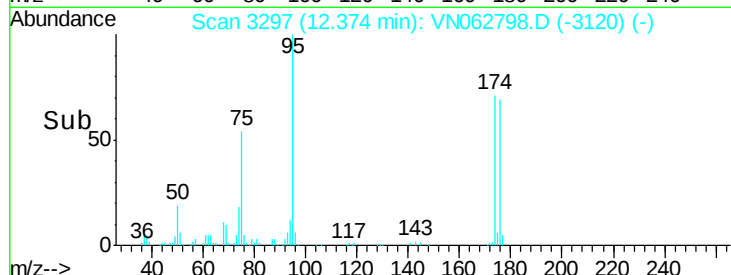
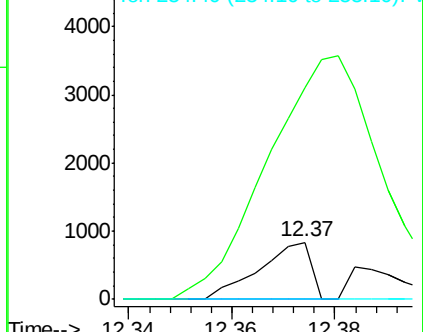
254 0.0 0.0 0.0



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# 3591

Delta R.T. -0.00 min

Lab File: VN062798.D

Acq: 10 Aug 2020 10:25

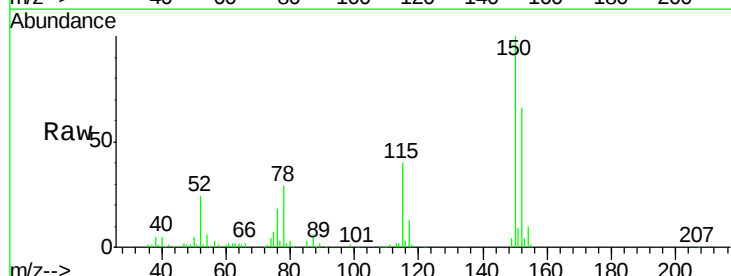
Tgt Ion:152 Resp: 75553

Ion Ratio Lower Upper

152 100

115 63.9 31.6 94.8

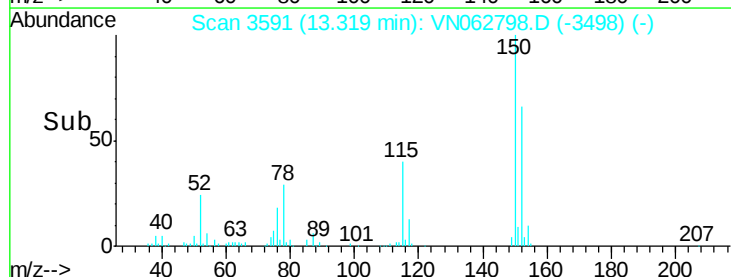
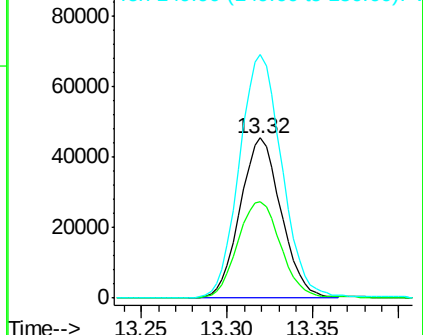
150 157.1 0.0 349.2

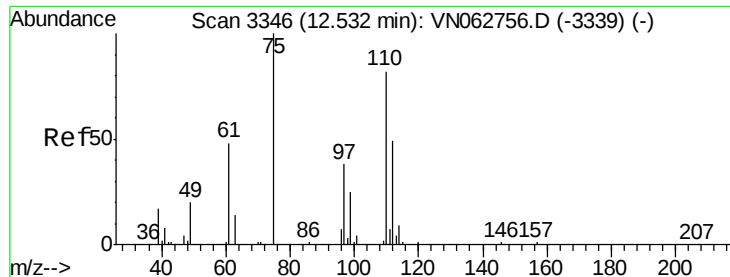


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

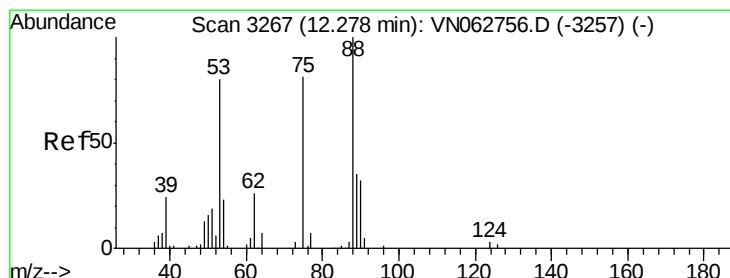
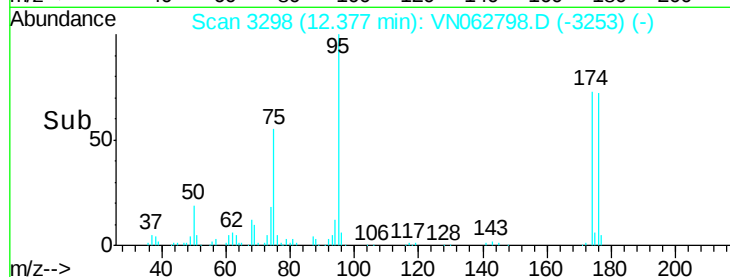
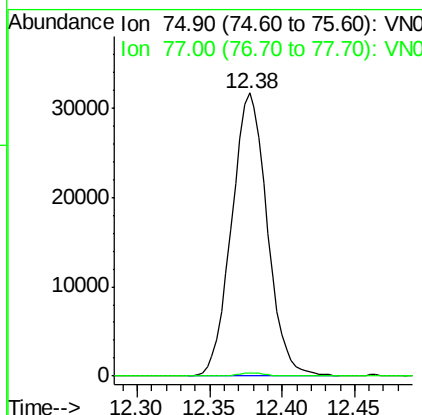
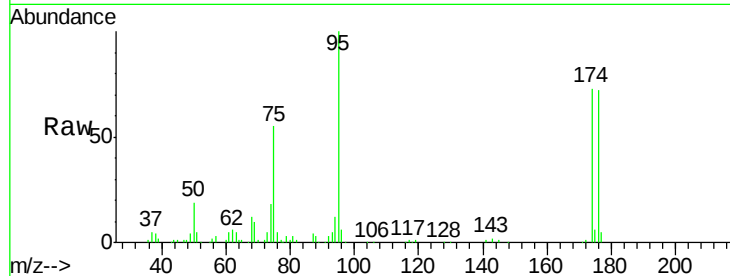




#76  
 1,2,3-Trichloropropane  
 Concen: 26.395 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. -0.15 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

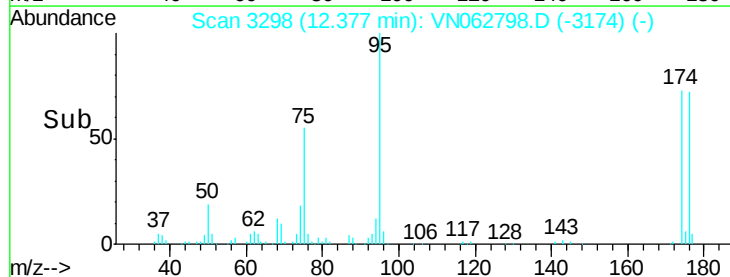
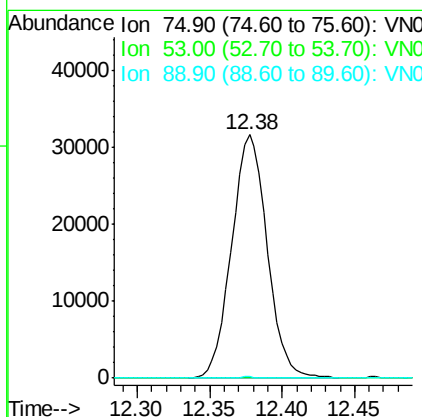
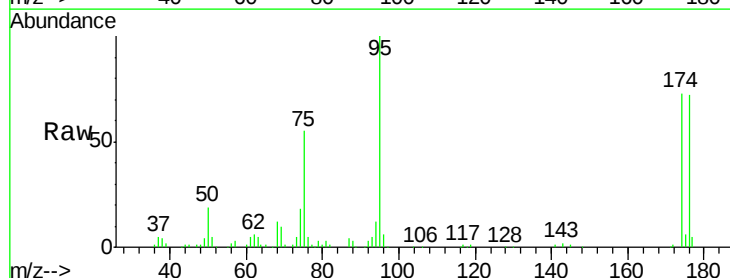
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0810WBL01

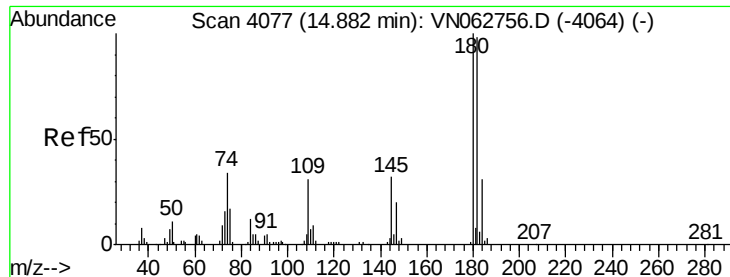
Tgt Ion: 75 Resp: 53781  
 Ion Ratio Lower Upper  
 75 100  
 77 0.8 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 80.575 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. 0.10 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

Tgt Ion: 75 Resp: 53781  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.1 118.7#  
 89 0.1 36.2 54.2#

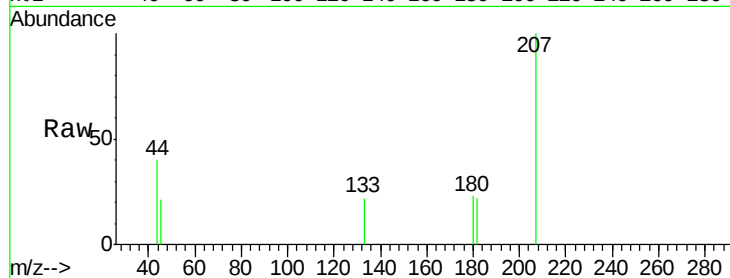




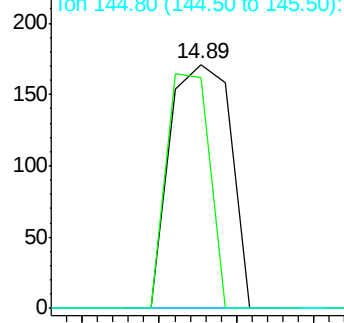
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.390 ug/l  
 RT: 14.89 min Scan# 4078  
 Delta R.T. 0.00 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0810WBL01

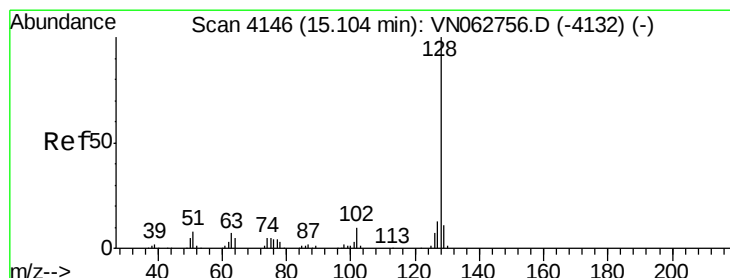
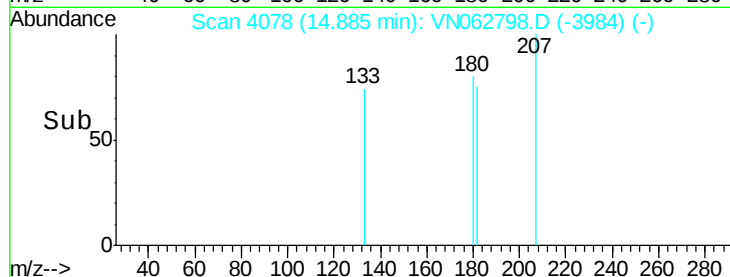
Tgt Ion:180 Resp: 93  
 Ion Ratio Lower Upper  
 180 100  
 182 67.7 49.1 147.4  
 145 0.0 16.3 48.8#



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

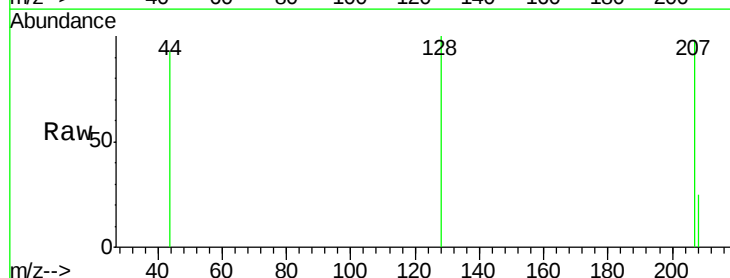


Time--> 14.87 14.88 14.89 14.90

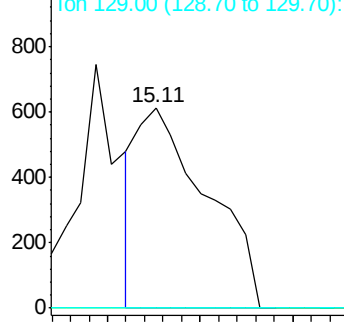


#95  
 Naphthalene  
 Concen: 3.879 ug/l  
 RT: 15.11 min Scan# 4148  
 Delta R.T. 0.01 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

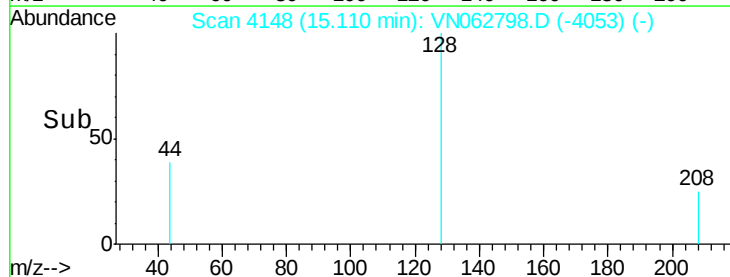
Tgt Ion:128 Resp: 641  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.8 16.2#  
 129 0.0 8.8 13.2#

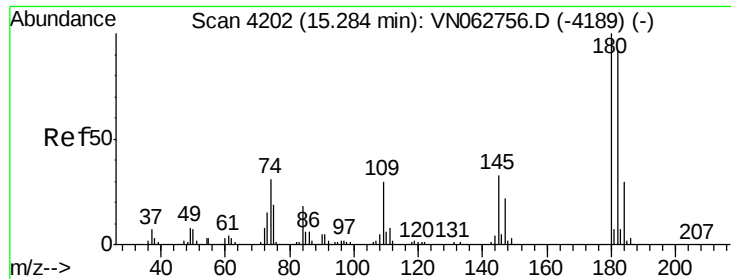


Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 127.00 (126.70 to 127.70): V  
 Ion 129.00 (128.70 to 129.70): V



Time--> 15.10 15.11 15.12 15.14





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.835 ug/l  
 RT: 15.29 min Scan# 4205  
 Delta R.T. 0.01 min  
 Lab File: VN062798.D  
 Acq: 10 Aug 2020 10:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0810WBL01

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 202.4 | 47.9  | 143.6# |
| 145     | 0.0   | 17.3  | 51.7#  |

