

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112520\  
 Data File : VN064853.D  
 Acq On : 25 Nov 2020 13:29  
 Operator : JC/MD  
 Sample : L4889-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB178-GW-788-790

Quant Time: Nov 26 03:41:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 153337   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 275329   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 285177   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 122352   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65    | 96992    | 54.41    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 108.82% |
| 35) Dibromofluoromethane  | 7.55   | 113   | 89427    | 54.28    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 108.56% |
| 50) Toluene-d8            | 10.06  | 98    | 341978   | 50.80    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 101.60% |
| 62) 4-Bromofluorobenzene  | 12.38  | 95    | 130694   | 54.25    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 108.50% |

## Target Compounds

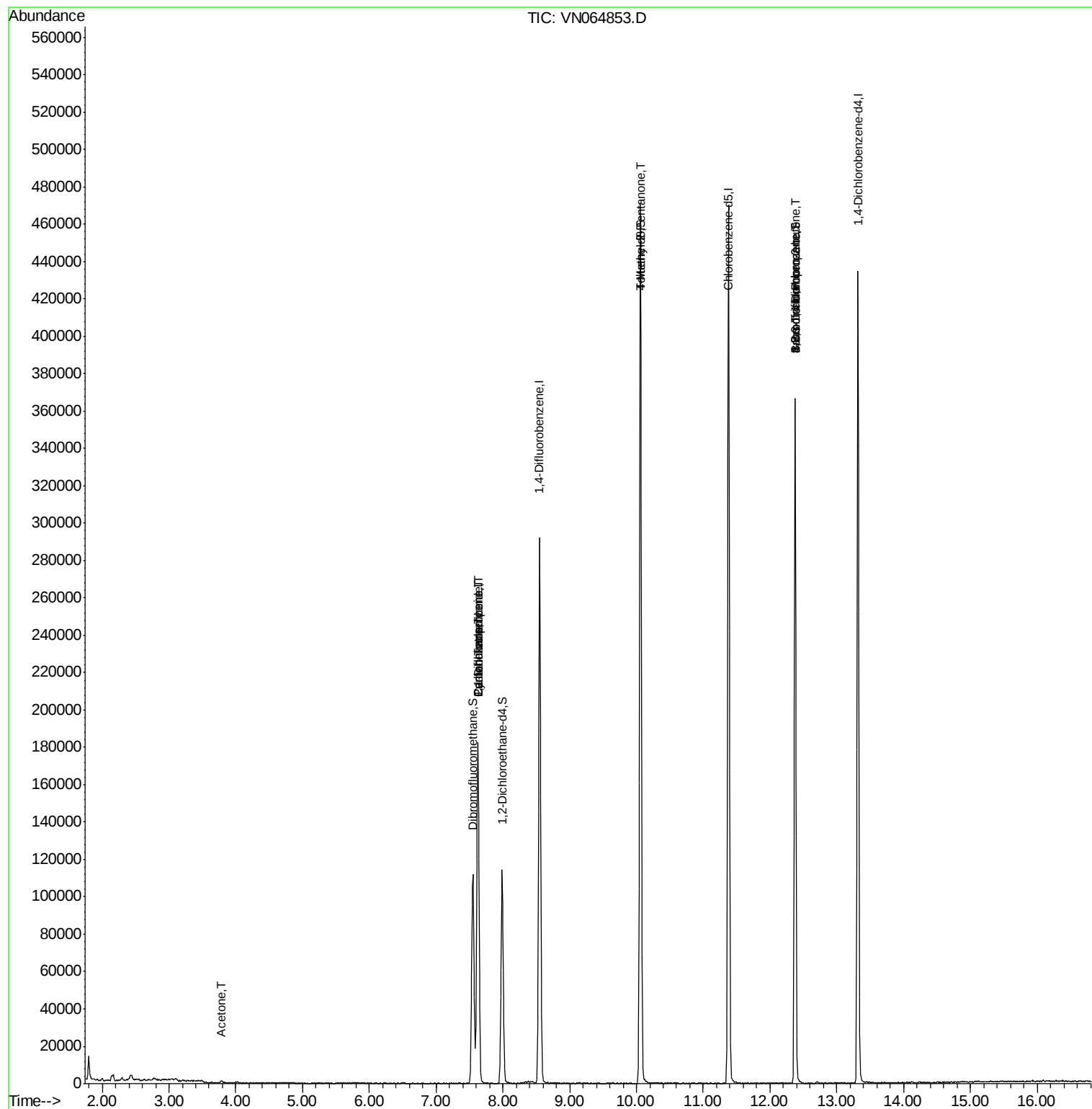
|                                |       |     |       |        | Qvalue |     |
|--------------------------------|-------|-----|-------|--------|--------|-----|
| 16) Acetone                    | 3.78  | 43  | 1916  | 3.270  | ug/l   | 94  |
| 31) Cyclohexane                | 7.62  | 56  | 2618  | 1.054  | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.62  | 75  | 10690 | 4.189  | ug/l # | 49  |
| 38) Carbon Tetrachloride       | 7.62  | 117 | 14696 | 5.534  | ug/l # | 16  |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43  | 1611  | 0.678  | ug/l # | 1   |
| 71) Bromoform                  | 12.38 | 173 | 1057  | 0.588  | ug/l # | 1   |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75  | 61750 | 23.435 | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75  | 61750 | 64.230 | ug/l # | 15  |

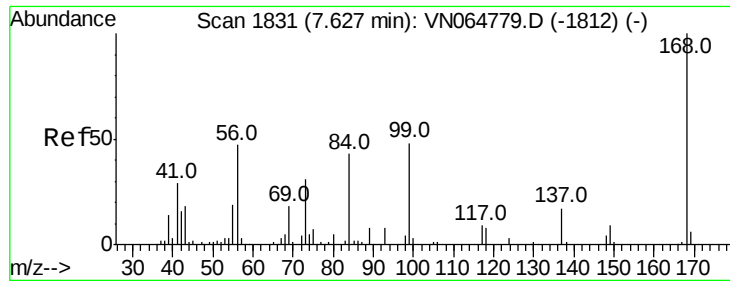
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN112520\  
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Sample : L4889-05  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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BP-VPB178-GW-788-790

Quant Time: Nov 26 03:41:13 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 23 13:54:12 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: VN064853.D

Acq: 25 Nov 2020 13:29

Instrument :

MSVOA\_N

ClientSampleId :

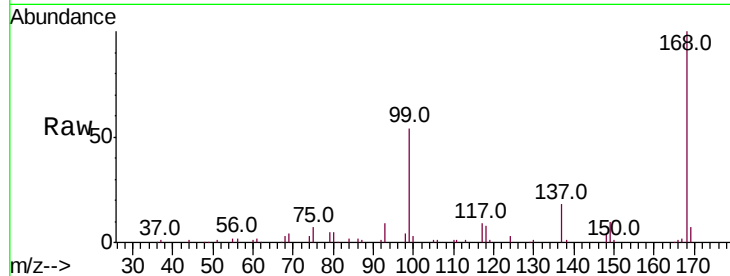
BP-VPB178-GW-788-790

Tot Ion:168 Resp: 153337

Ion Ratio Lower Upper

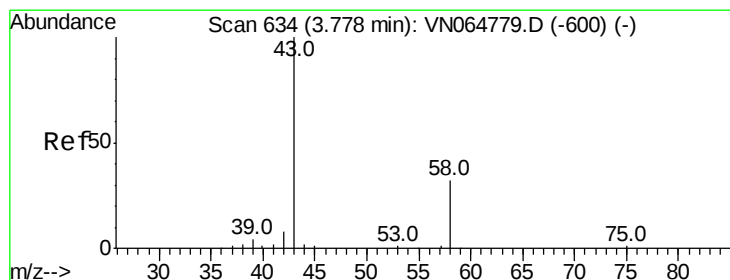
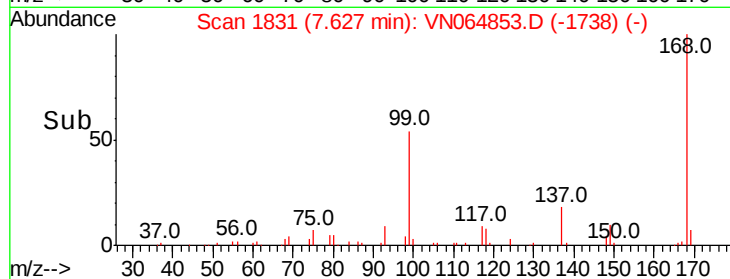
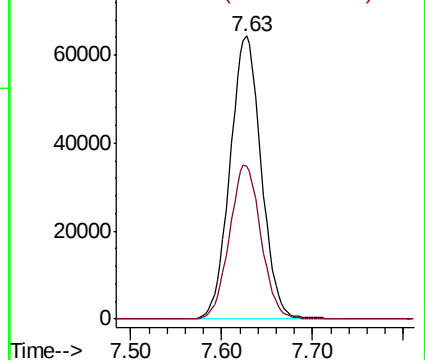
168 100

99 54.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 3.270 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064853.D

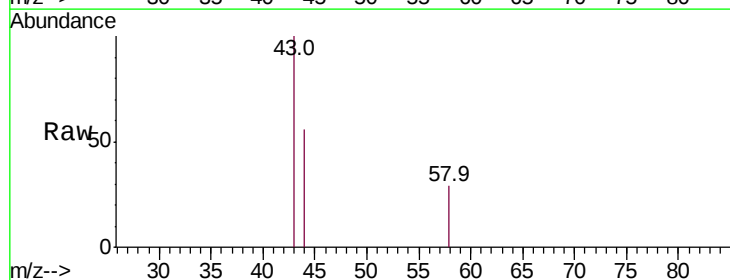
Acq: 25 Nov 2020 13:29

Tgt Ion: 43 Resp: 1916

Ion Ratio Lower Upper

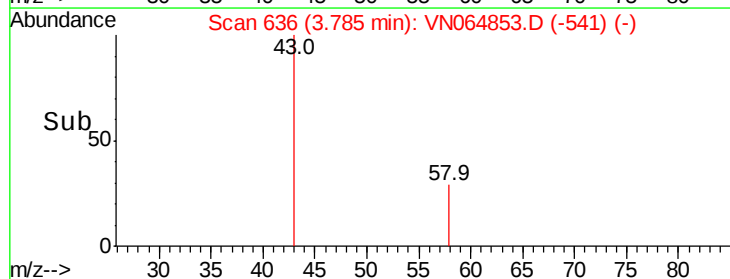
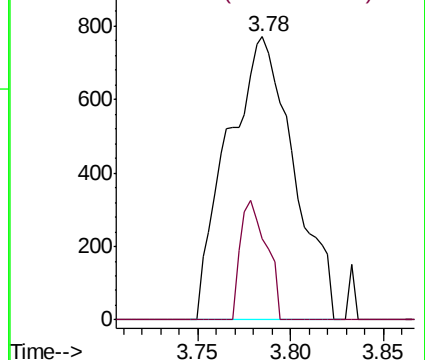
43 100

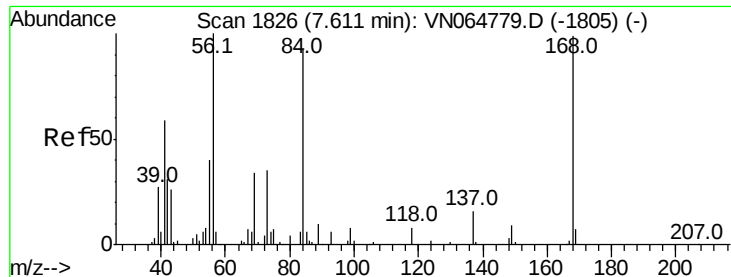
58 28.5 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

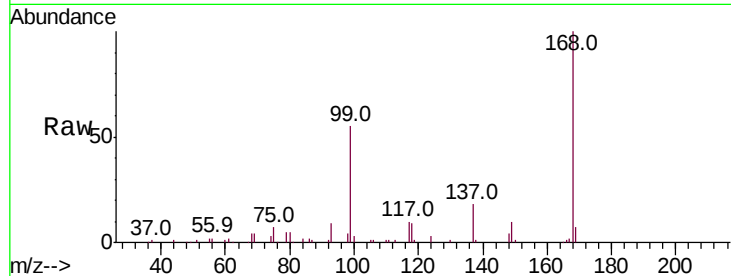




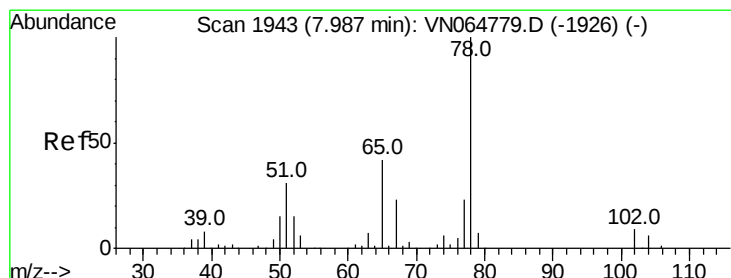
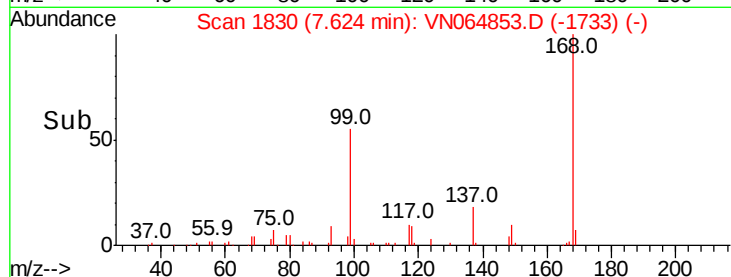
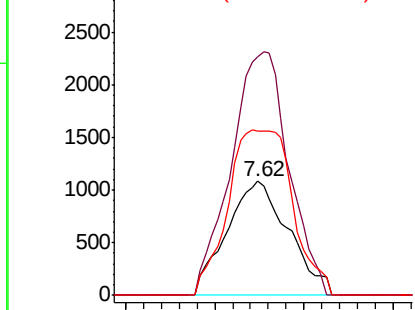
#31  
Cyclohexane  
Concen: 1.054 ug/l  
RT: 7.62 min Scan# 1830  
Delta R.T. 0.01 min  
Lab File: VN064853.D  
Acq: 25 Nov 2020 13:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB178-GW-788-790

Tot Ion: 56 Resp: 2618  
Ion Ratio Lower Upper  
56 100  
69 208.4 27.5 41.3#  
84 143.5 73.9 110.9#

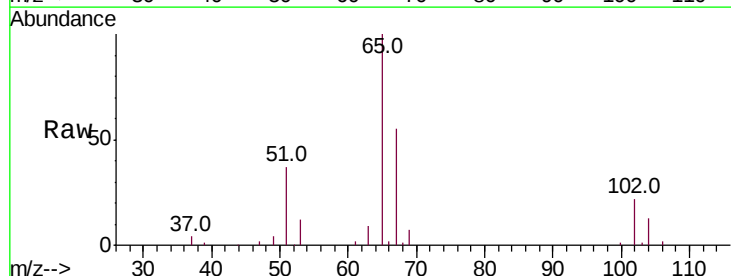


Abundance Ion 56.00 (55.70 to 56.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 84.00 (83.70 to 84.70): VNC

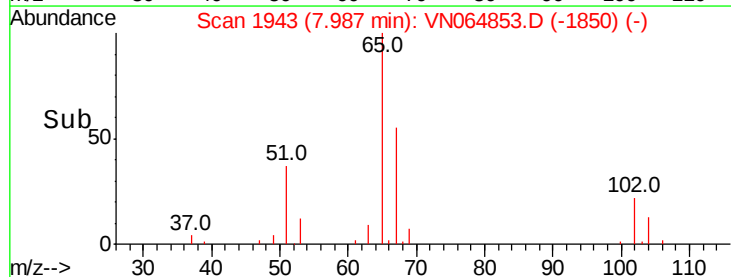
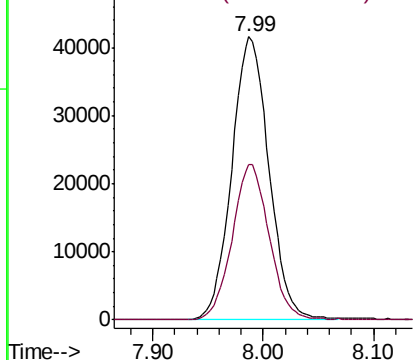


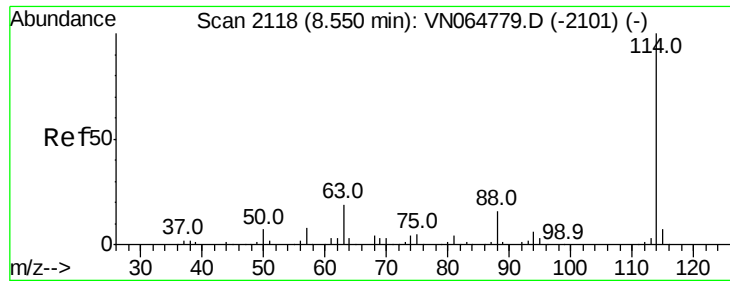
#33  
1,2-Dichloroethane-d4  
Concen: 54.409 ug/l  
RT: 7.99 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN064853.D  
Acq: 25 Nov 2020 13:29

Tgt Ion: 65 Resp: 96992  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNC  
Ion 66.90 (66.60 to 67.60): VNC

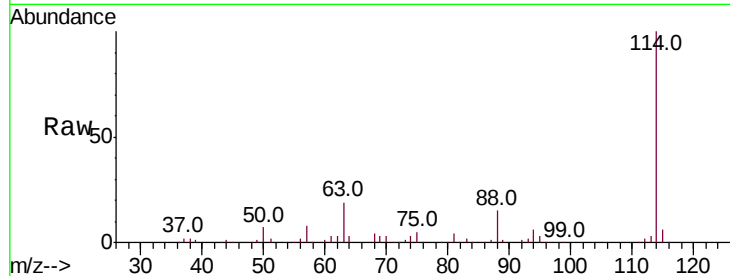




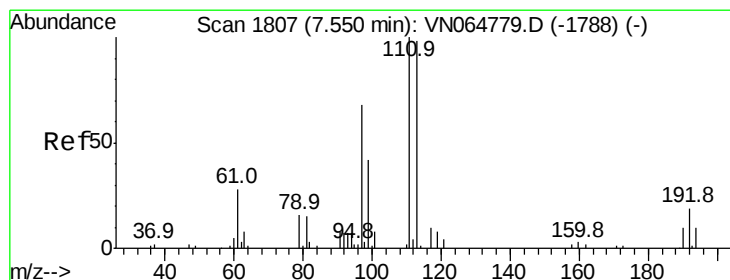
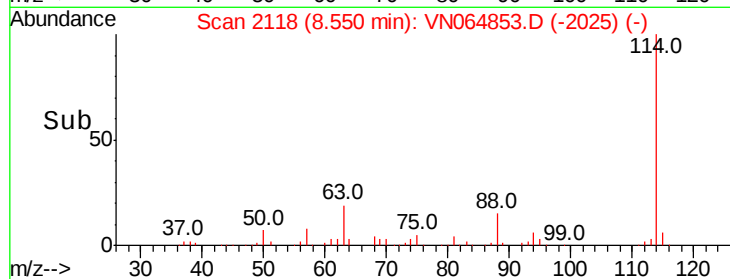
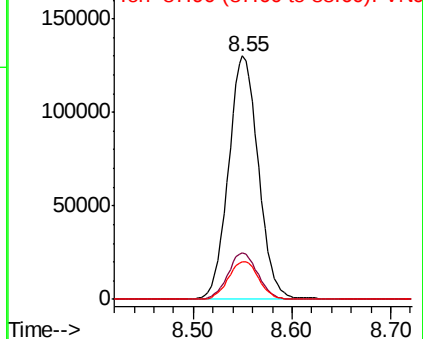
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064853.D  
 Acq: 25 Nov 2020 13:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB178-GW-788-790

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.1  | 0.0   | 38.6  |
| 88      | 15.4  | 0.0   | 32.6  |

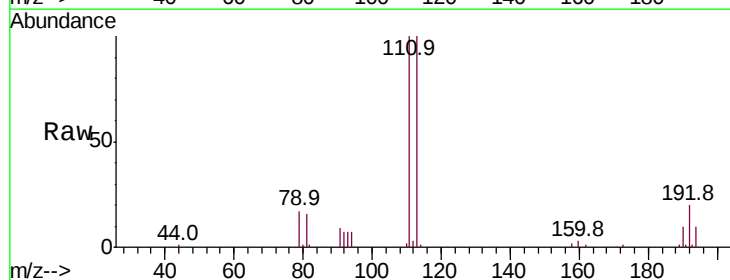


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

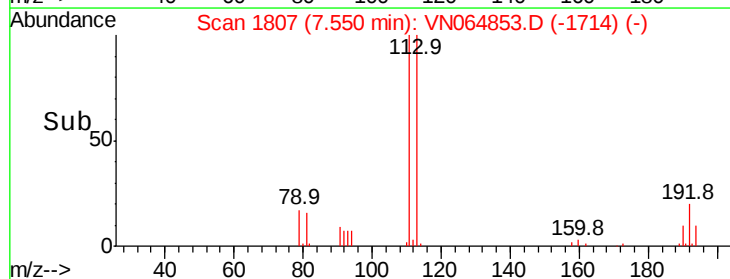
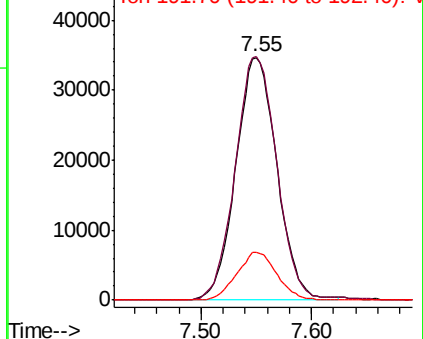


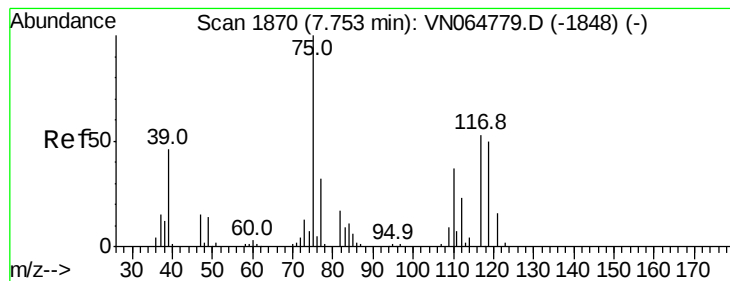
#35  
 Dibromofluoromethane  
 Concen: 54.281 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN064853.D  
 Acq: 25 Nov 2020 13:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.1 | 81.6  | 122.4 |
| 192     | 19.1  | 16.2  | 24.2  |



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: 4.189 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064853.D

Acq: 25 Nov 2020 13:29

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB178-GW-788-790

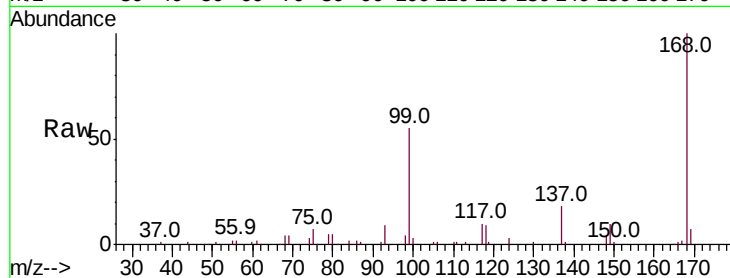
Tot Ion: 75 Resp: 10690

Ion Ratio Lower Upper

75 100

110 8.2 17.8 53.3#

77 0.0 25.0 37.4#



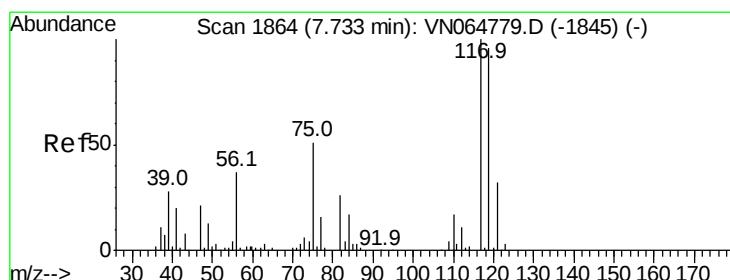
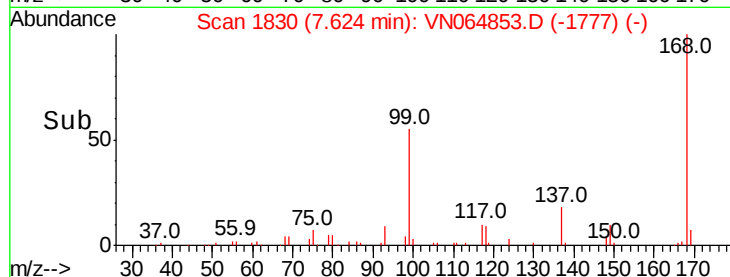
Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN064779.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-1848) (-)

7.62

Time-->



#38

Carbon Tetrachloride

Concen: 5.534 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064853.D

Acq: 25 Nov 2020 13:29

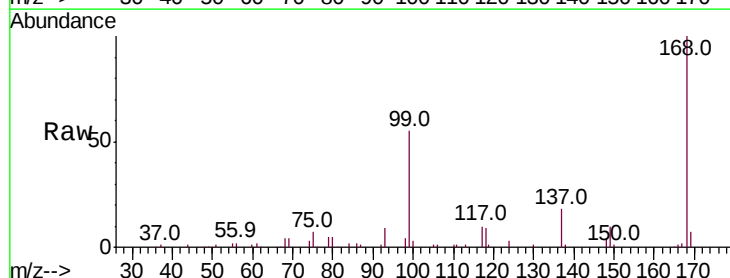
Tgt Ion: 117 Resp: 14696

Ion Ratio Lower Upper

117 100

119 5.7 76.7 115.1#

121 0.0 25.4 38.2#



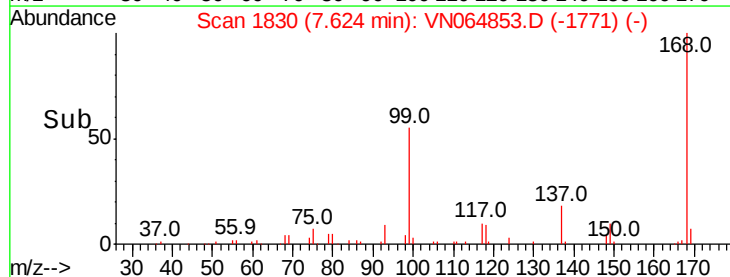
Abundance Ion 116.80 (116.50 to 117.50): VN064779.D (-1845) (-)

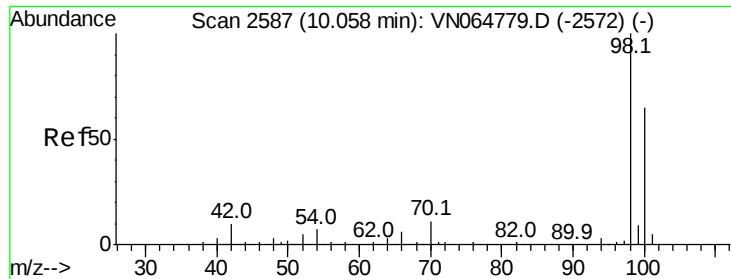
Ion 118.80 (118.50 to 119.50): VN064779.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN064779.D (-1845) (-)

7.62

Time-->





#50

Toluene-d8

Concen: 50.803 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064853.D

Acq: 25 Nov 2020 13:29

Instrument :

MSVOA\_N

ClientSampleId :

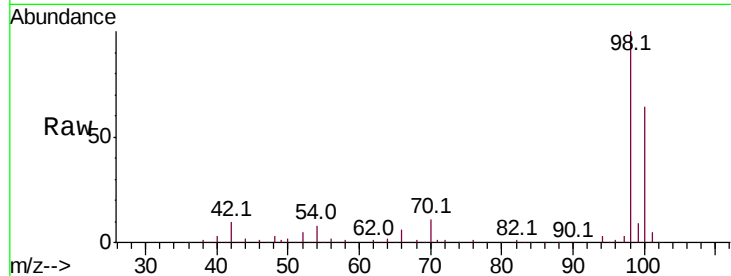
BP-VPB178-GW-788-790

Tot Ion: 98 Resp: 341978

Ion Ratio Lower Upper

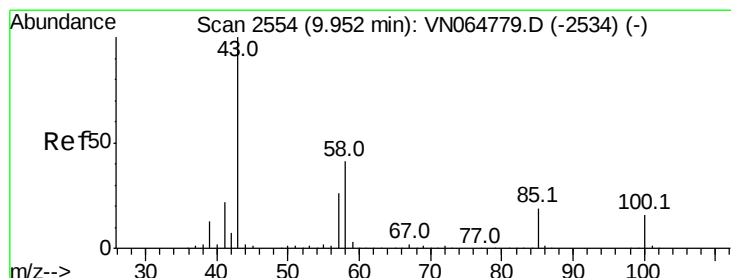
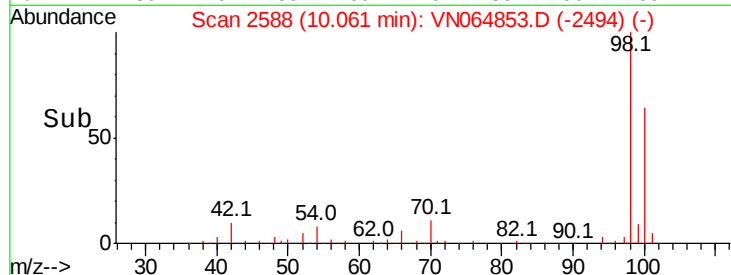
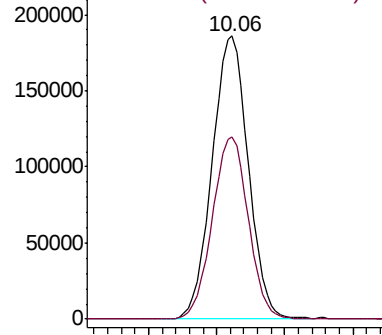
98 100

100 64.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.678 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.11 min

Lab File: VN064853.D

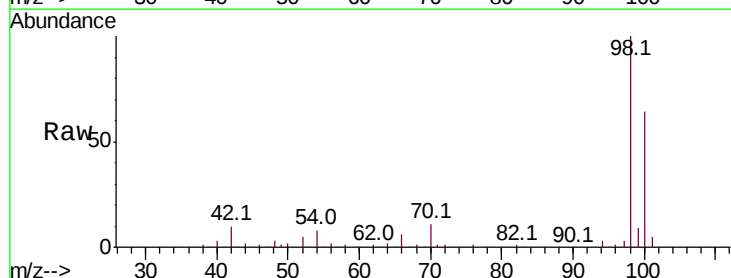
Acq: 25 Nov 2020 13:29

Tgt Ion: 43 Resp: 1611

Ion Ratio Lower Upper

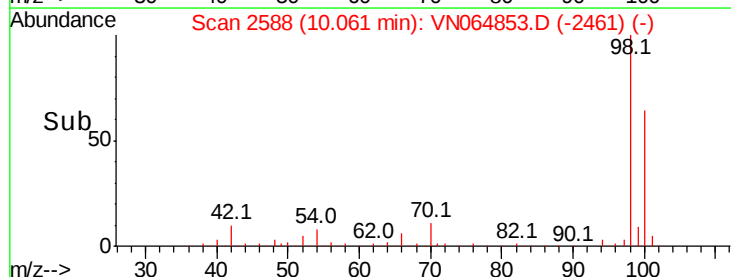
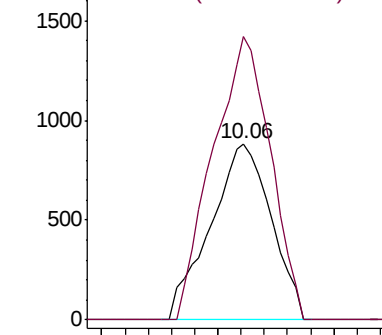
43 100

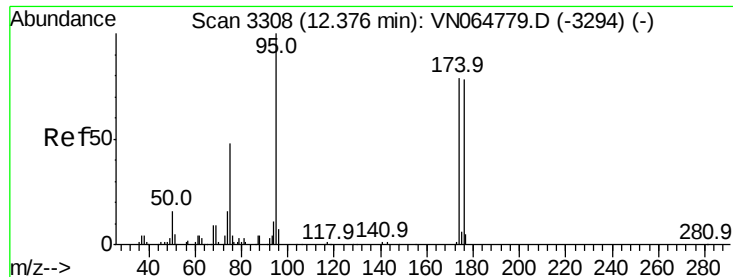
58 152.4 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 54.251 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064853.D

Acq: 25 Nov 2020 13:29

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB178-GW-788-790

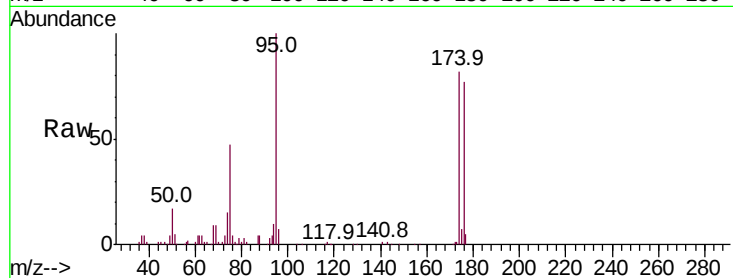
Tot Ion: 95 Resp: 130694

Ion Ratio Lower Upper

95 100

174 81.2 0.0 160.4

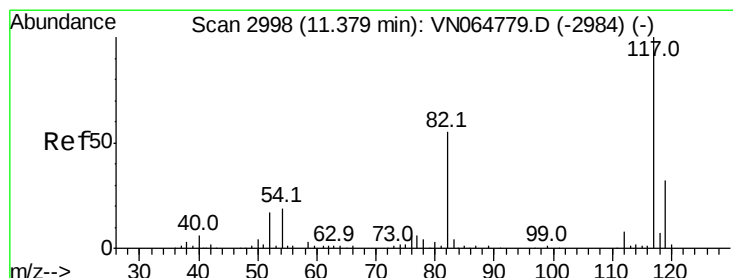
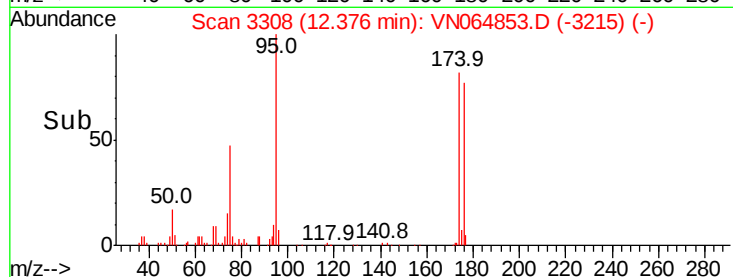
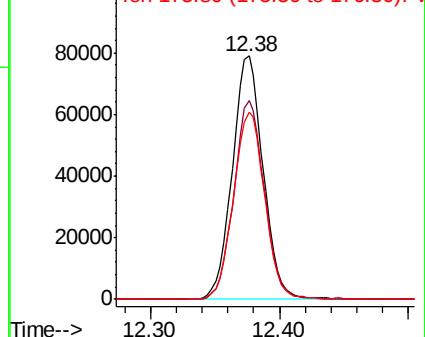
176 78.1 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN064779.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN064779.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN064779.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064853.D

Acq: 25 Nov 2020 13:29

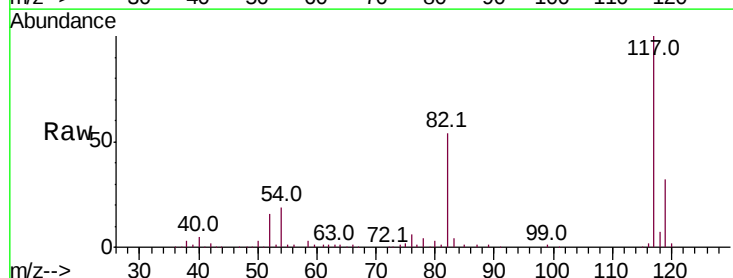
Tgt Ion: 117 Resp: 285177

Ion Ratio Lower Upper

117 100

82 53.8 44.2 66.2

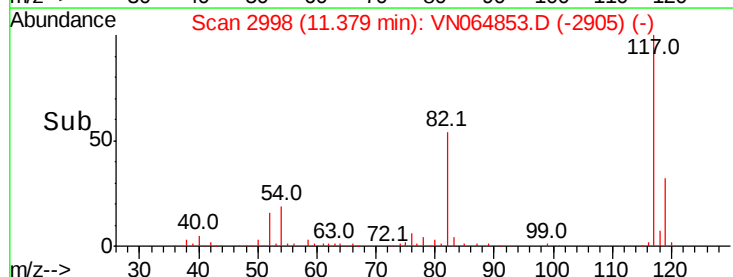
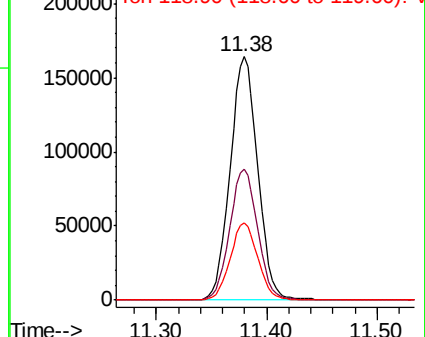
119 31.9 25.8 38.6

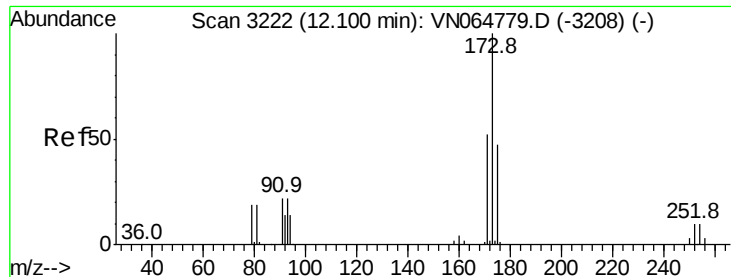


Abundance Ion 116.90 (116.60 to 117.60): VN064779.D (-2984) (-)

Ion 82.00 (81.70 to 82.70): VN064779.D (-2984) (-)

Ion 118.90 (118.60 to 119.60): VN064779.D (-2984) (-)

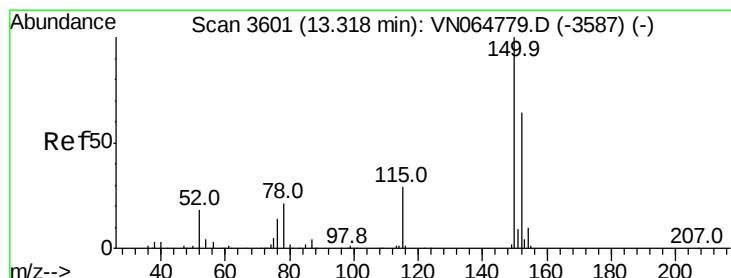
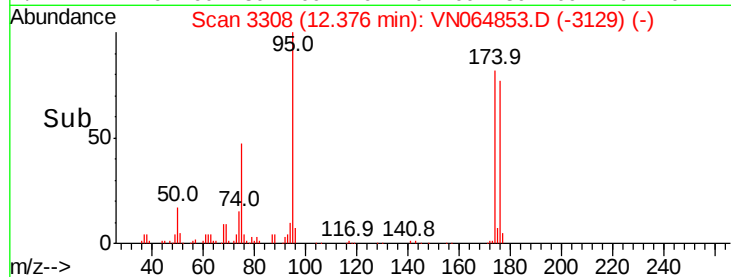
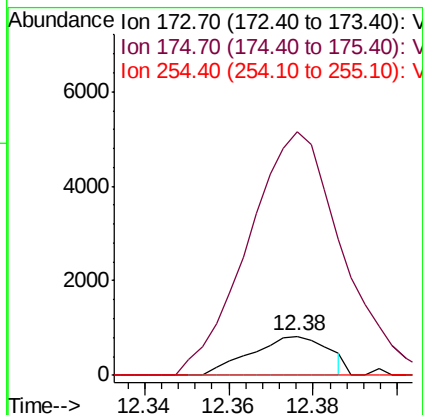
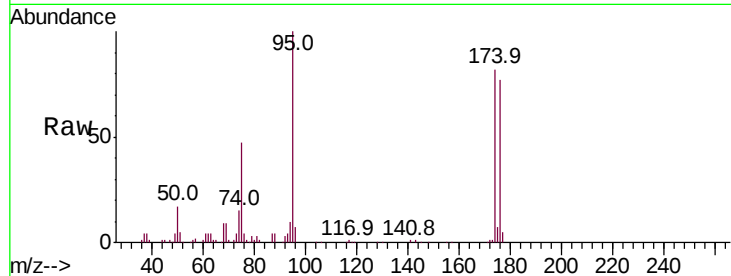




#71  
Bromoform  
Concen: 0.588 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.28 min  
Lab File: VN064853.D  
Acq: 25 Nov 2020 13:29

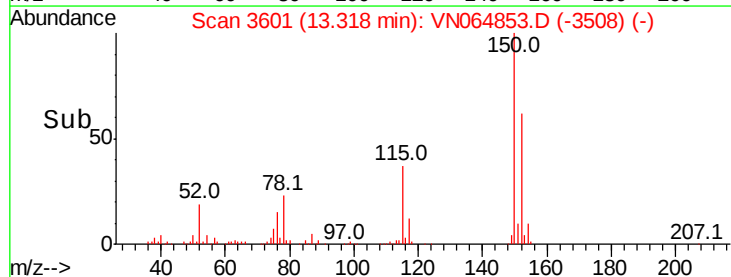
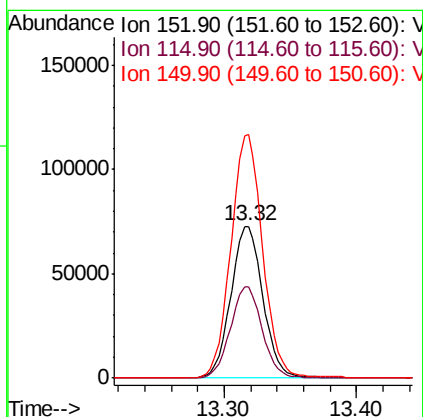
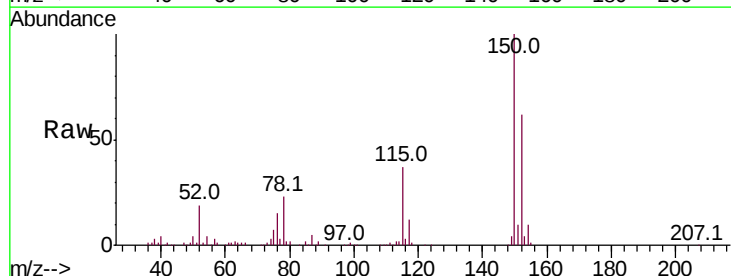
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB178-GW-788-790

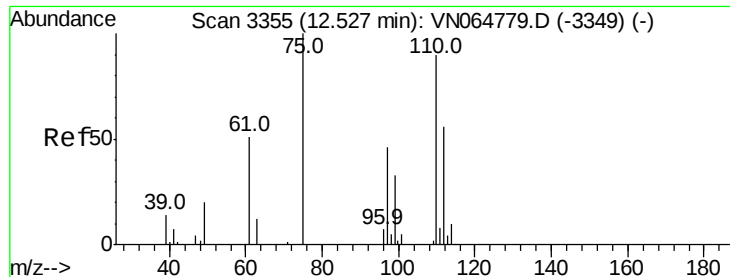
Tot Ion:173 Resp: 1057  
Ion Ratio Lower Upper  
173 100  
175 649.7 24.3 72.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN064853.D  
Acq: 25 Nov 2020 13:29

Tgt Ion:152 Resp: 122352  
Ion Ratio Lower Upper  
152 100  
115 60.0 29.7 89.1  
150 158.2 0.0 350.6





#76

1,2,3-Trichloropropane

Concen: 23.435 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064853.D

Acq: 25 Nov 2020 13:29

Instrument :

MSVOA\_N

ClientSampleId :

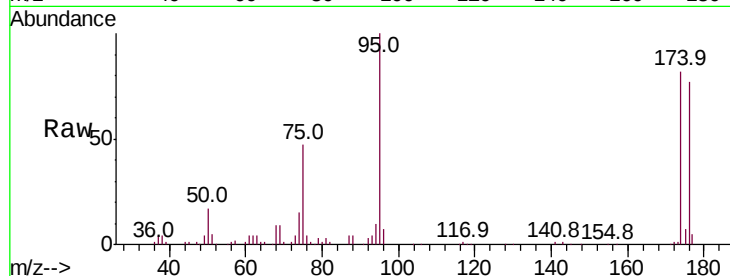
BP-VPB178-GW-788-790

Tot Ion: 75 Resp: 61750

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN064853.D (-3262) (-)

Ion 77.00 (76.70 to 77.70): VN064853.D (-3262) (-)

12.38

40000

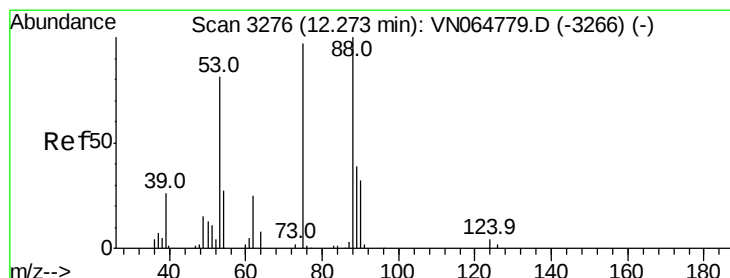
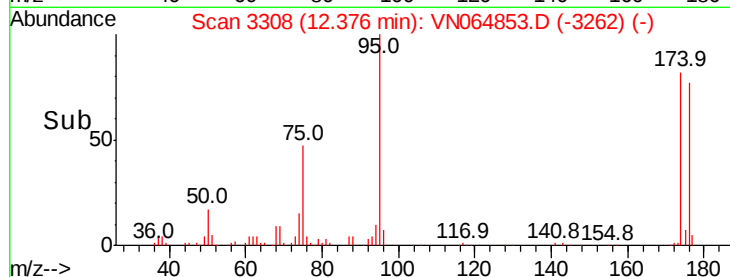
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 64.230 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064853.D

Acq: 25 Nov 2020 13:29

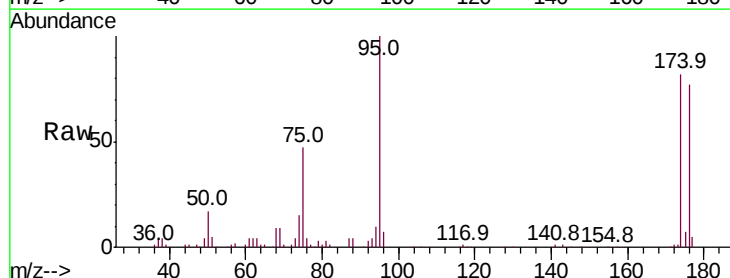
Tgt Ion: 75 Resp: 61750

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064853.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064853.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064853.D (-3183) (-)

12.38

50000

40000

30000

20000

10000

0

Time-->

