

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050720\  
 Data File : VN061341.D  
 Acq On : 7 May 2020 18:02  
 Operator : JC/MD  
 Sample : L2548-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 08 02:56:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 05 07:01:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 92055    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 168144   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 160392   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 68631    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 78803    | 54.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.20% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 52190    | 52.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.98% |          |
| 50) Toluene-d8              | 10.06 | 98   | 211369   | 52.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.30% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 75534    | 49.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.04%  |          |

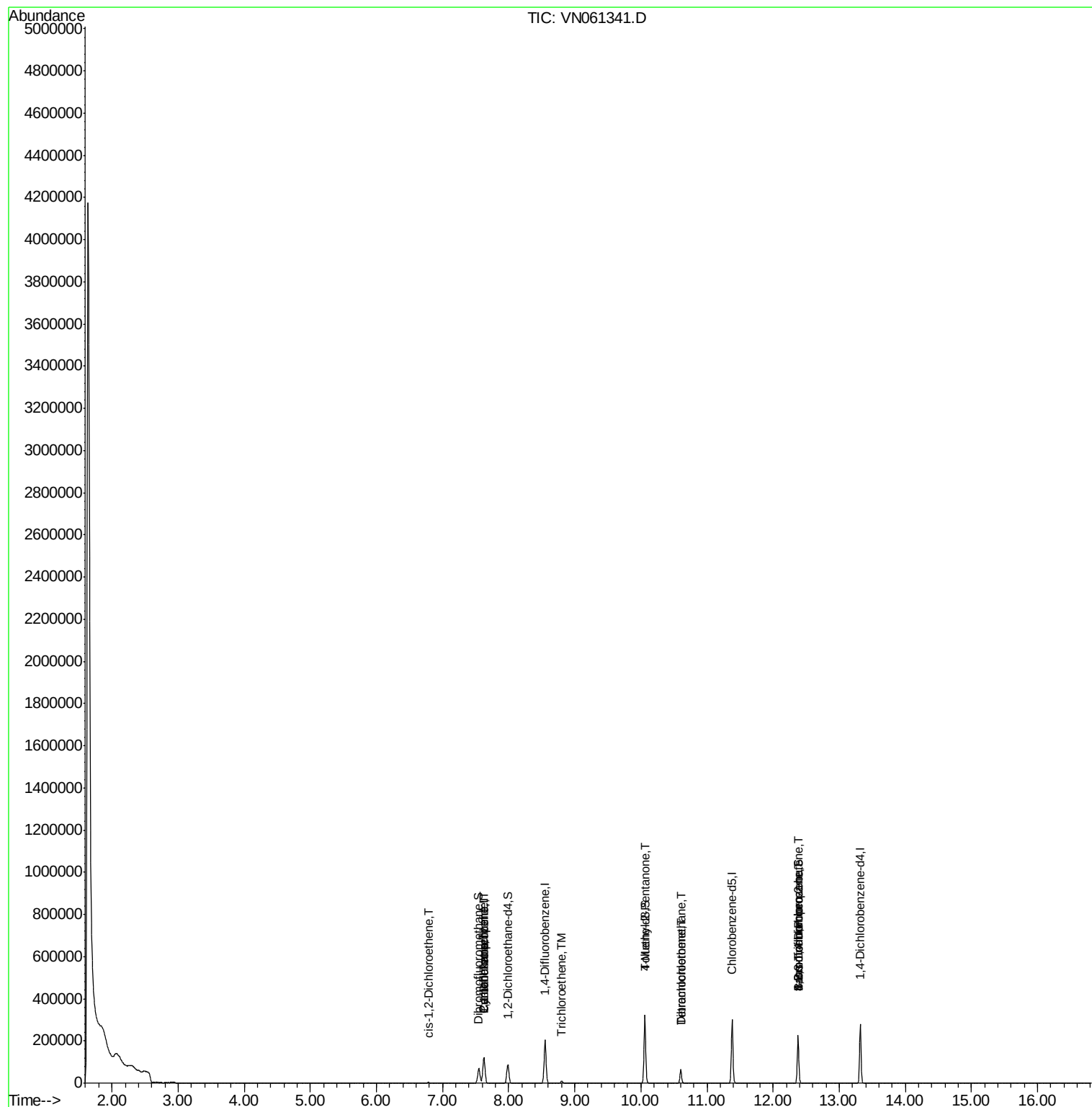
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 1075     | Below Cal | #      | 47     |
| 27) cis-1,2-Dichloroethene     | 6.78  | 96   | 2041     | 1.644     | ug/l   | 87     |
| 31) Cyclohexane                | 7.63  | 56   | 2556     | 1.206     | ug/l # | 31     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 8552     | 5.081     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 9797     | 8.374     | ug/l # | 17     |
| 44) Trichloroethene            | 8.80  | 130  | 3382     | 2.495     | ug/l   | 98     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1137     | 0.590     | ug/l # | 1      |
| 60) Dibromochloromethane       | 10.60 | 129  | 13597    | 10.776    | ug/l # | 10     |
| 64) Tetrachloroethene          | 10.60 | 164  | 14257    | 10.263    | ug/l   | 97     |
| 71) Bromoform                  | 12.37 | 173  | 271      | 0.324     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 41883    | 28.946    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 41883    | 73.508    | ug/l # | 8      |

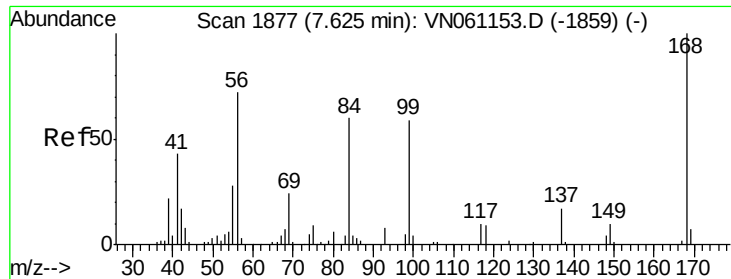
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: May 08 02:56:03 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 05 07:01:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Instrument :

MSVOA\_N

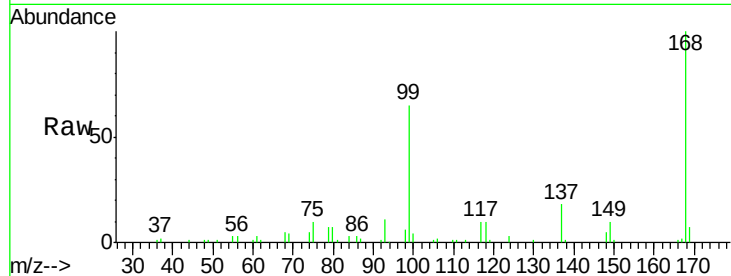
ClientSampled :

Tot Ion:168 Resp: 92055

Ion Ratio Lower Upper

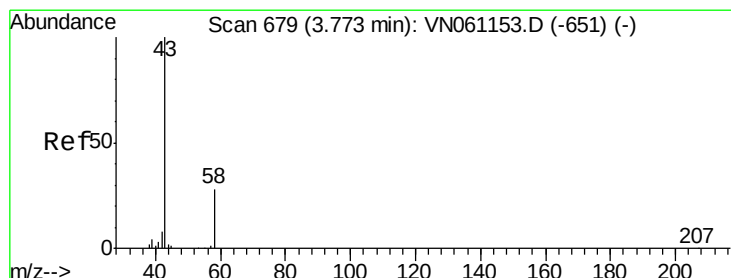
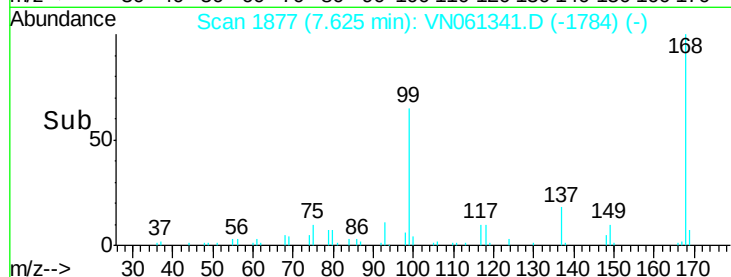
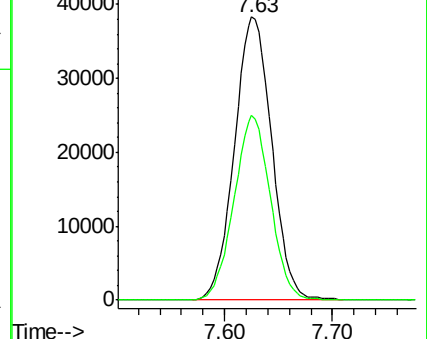
168 100

99 65.1 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 683

Delta R.T. 0.01 min

Lab File: VN061341.D

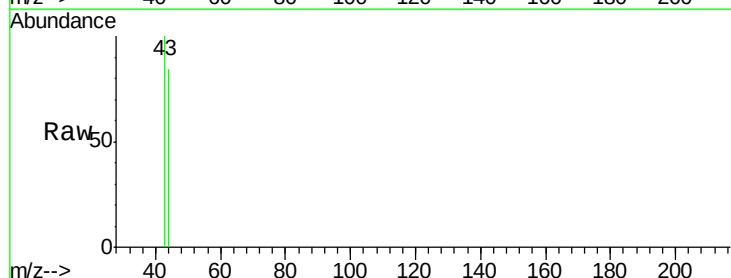
Acq: 7 May 2020 18:02

Tgt Ion: 43 Resp: 1075

Ion Ratio Lower Upper

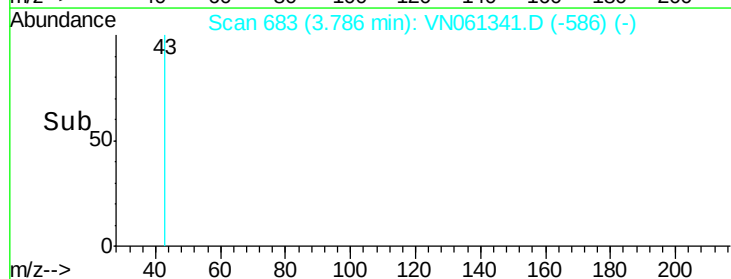
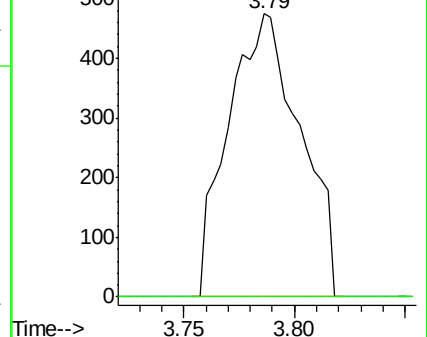
43 100

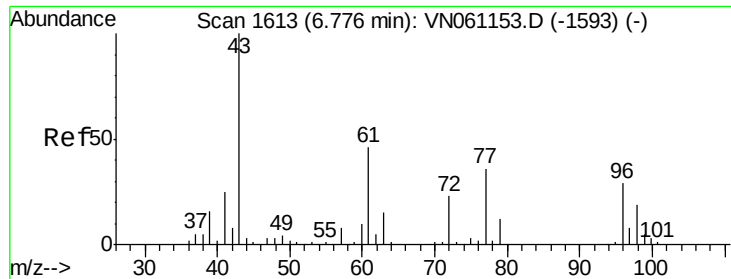
58 0.0 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#27

cis-1,2-Dichloroethene

Concen: 1.644 ug/l

RT: 6.78 min Scan# 1615

Delta R.T. 0.01 min

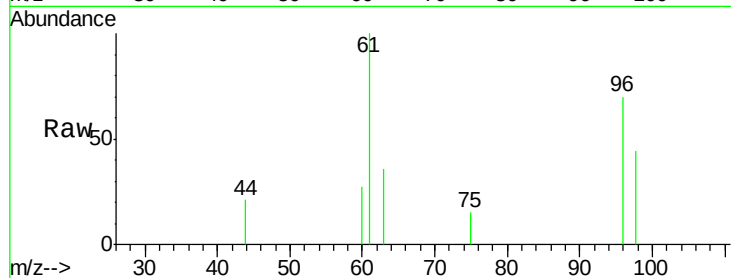
Lab File: VN061341.D

Acq: 7 May 2020 18:02

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 96 Resp: 2041

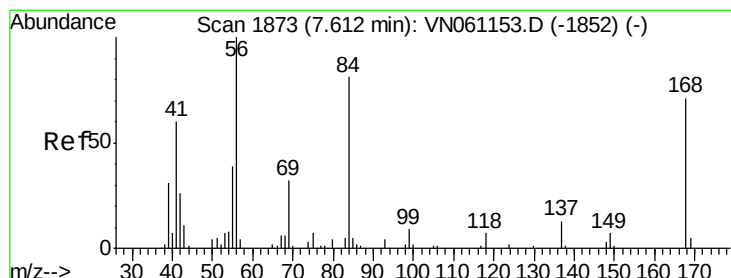
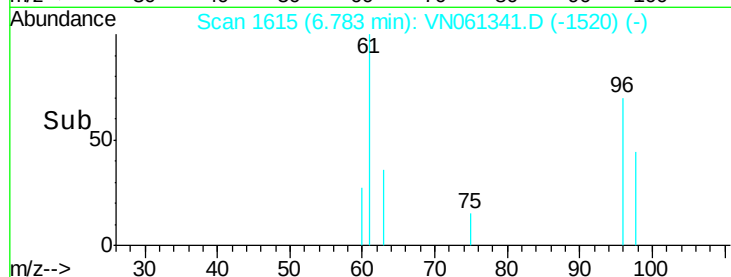
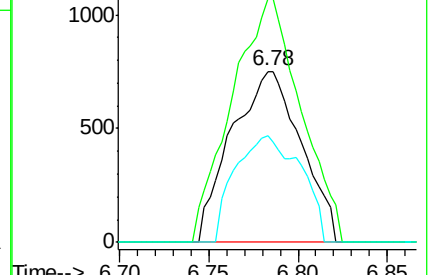
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 141.5 | 0.0   | 322.0 |
| 98  | 58.8  | 0.0   | 129.6 |



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.206 ug/l

RT: 7.63 min Scan# 1877

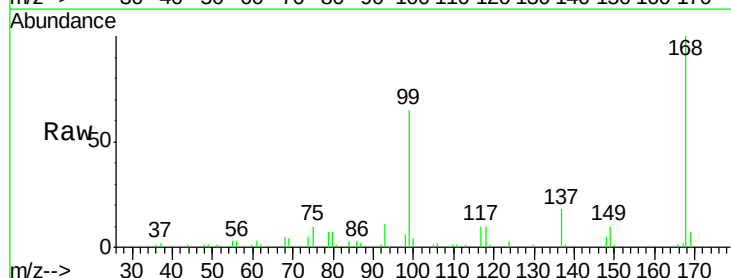
Delta R.T. 0.01 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Tgt Ion: 56 Resp: 2556

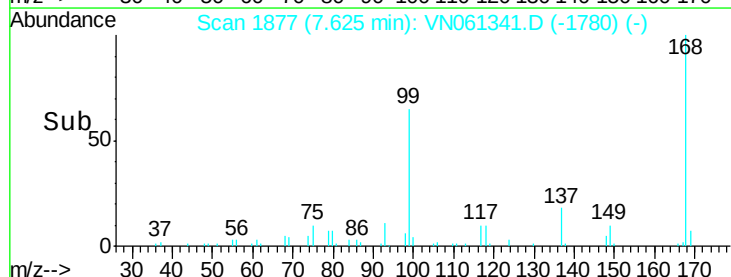
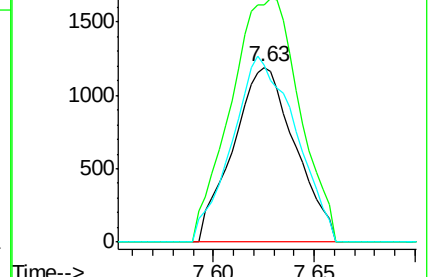
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 135.8 | 25.7  | 38.5# |
| 84  | 101.3 | 64.6  | 97.0# |

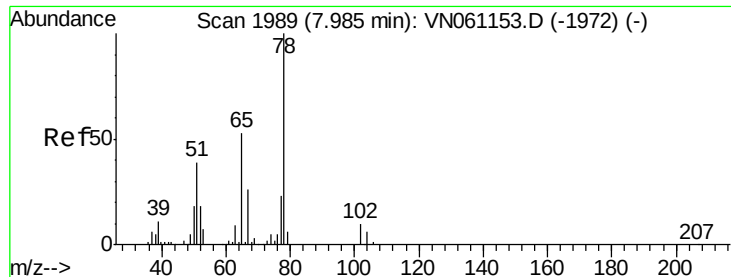


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

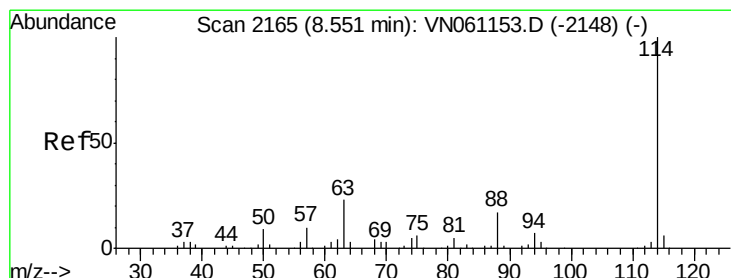
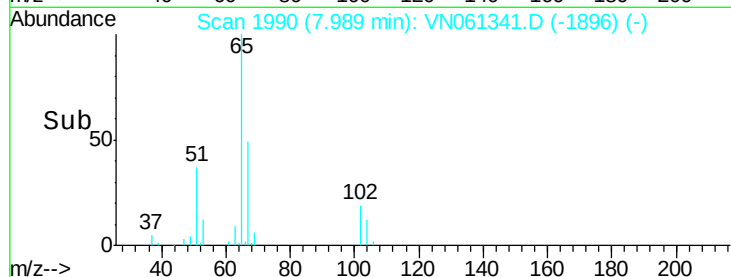
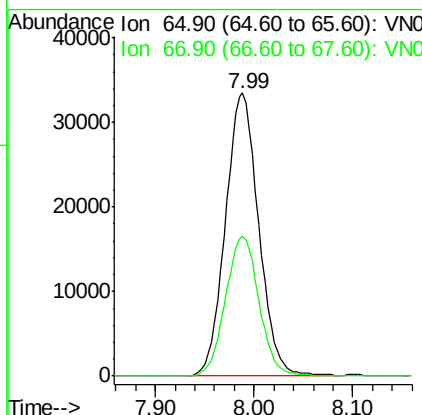
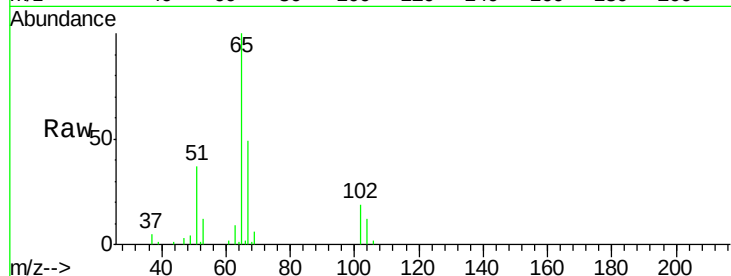




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.101 ug/l  
 RT: 7.99 min Scan# 1990  
 Delta R.T. 0.00 min  
 Lab File: VN061341.D  
 Acq: 7 May 2020 18:02

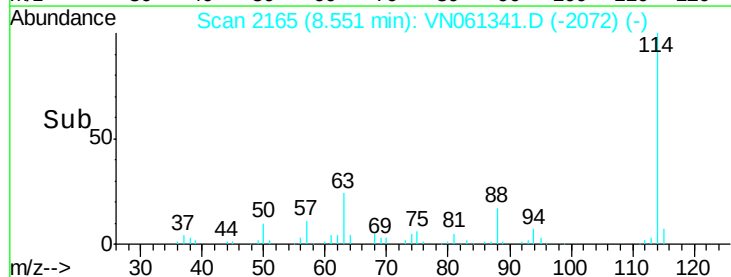
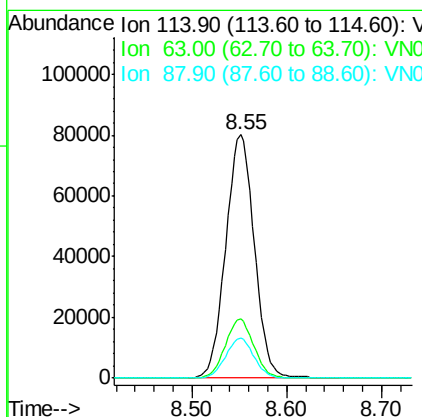
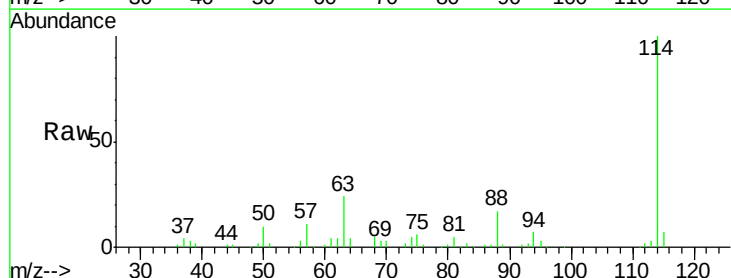
Instrument :  
 MSVOA\_N  
 ClientSampleId :

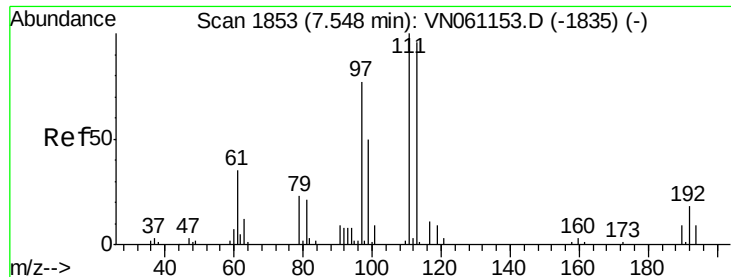
Tot Ion: 65 Resp: 78803  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2165  
 Delta R.T. 0.00 min  
 Lab File: VN061341.D  
 Acq: 7 May 2020 18:02

Tgt Ion: 114 Resp: 168144  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 46.6  
 88 16.7 0.0 33.4

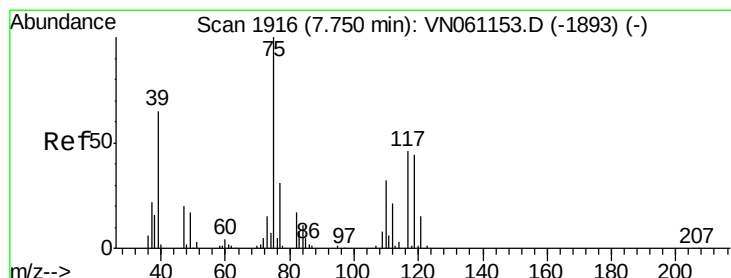
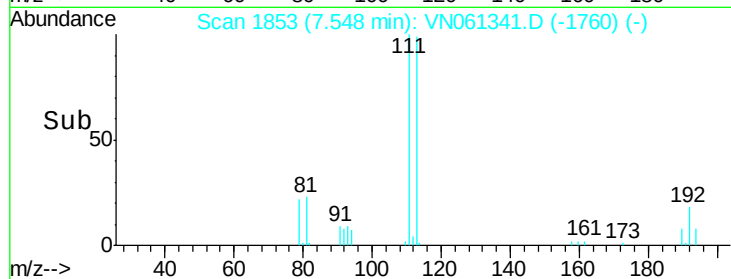
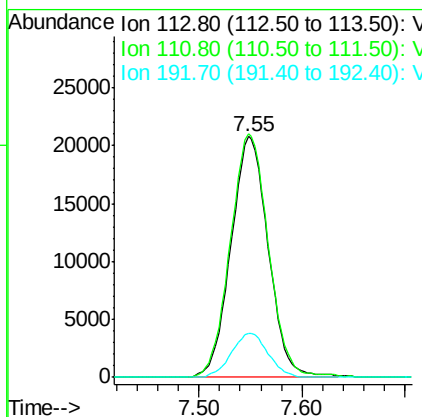
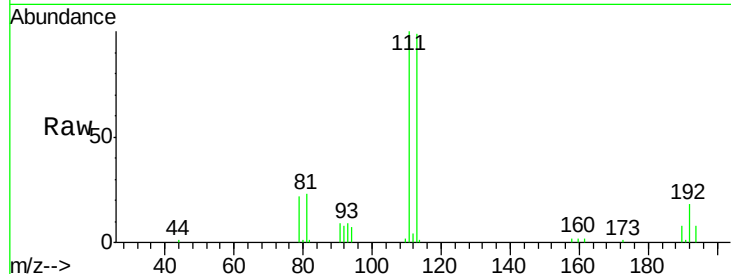




#35  
 Dibromofluoromethane  
 Concen: 52.491 ug/l  
 RT: 7.55 min Scan# 1853  
 Delta R.T. 0.00 min  
 Lab File: VN061341.D  
 Acq: 7 May 2020 18:02

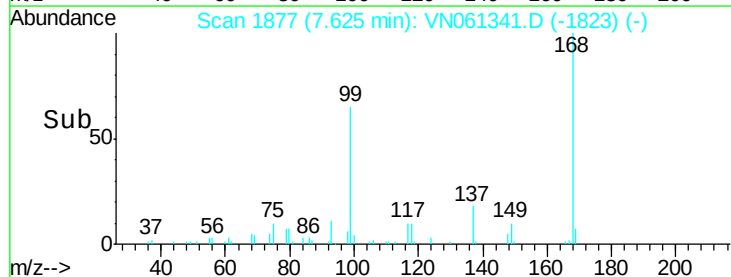
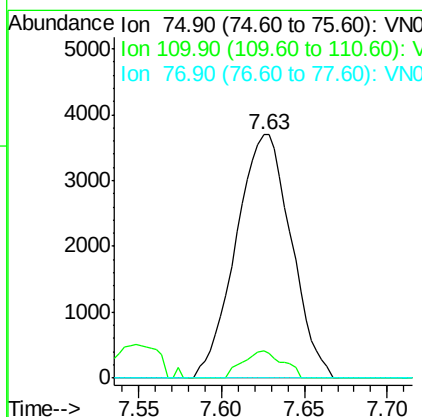
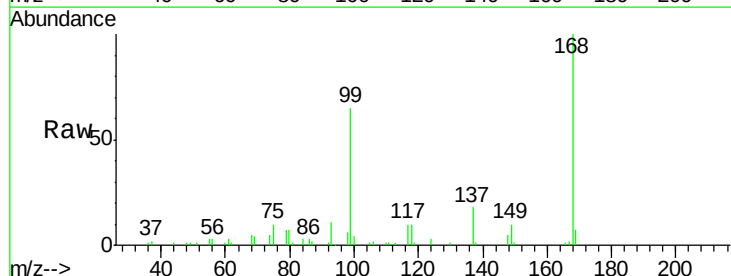
Instrument :  
 MSVOA\_N  
 ClientSampleId :

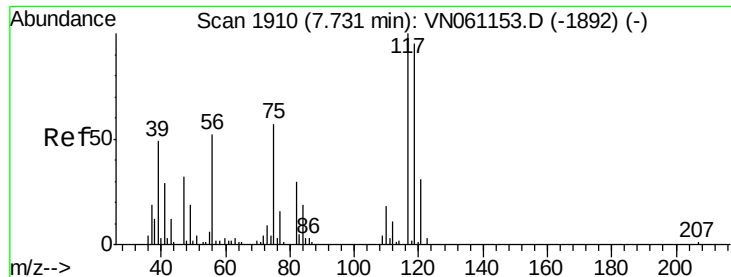
Tot Ion:113 Resp: 52190  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 82.9 124.3  
 192 18.0 14.7 22.1



#36  
 1,1-Dichloropropene  
 Concen: 5.081 ug/l  
 RT: 7.63 min Scan# 1877  
 Delta R.T. -0.13 min  
 Lab File: VN061341.D  
 Acq: 7 May 2020 18:02

Tgt Ion: 75 Resp: 8552  
 Ion Ratio Lower Upper  
 75 100  
 110 8.0 16.0 48.0#  
 77 0.0 24.6 37.0#

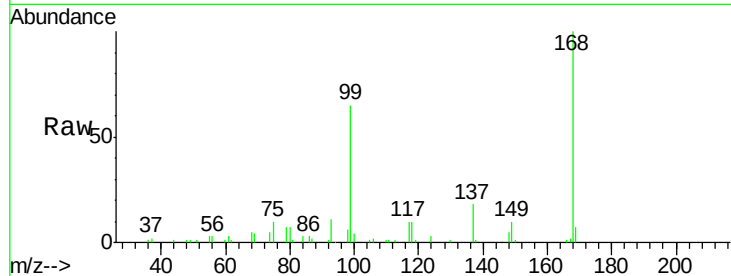




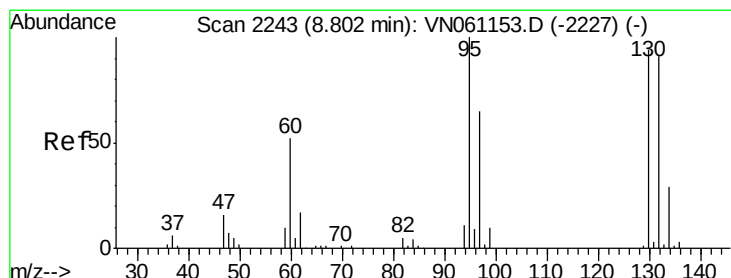
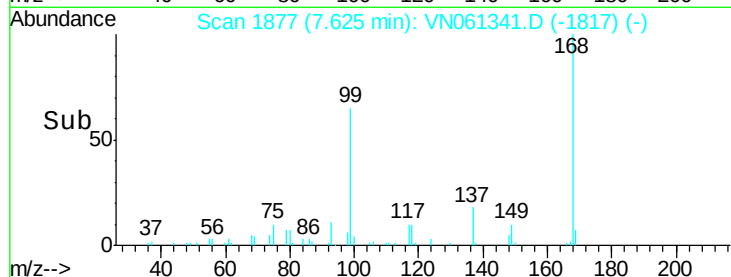
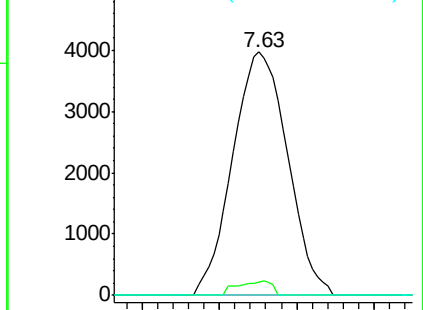
#38  
Carbon Tetrachloride  
Concen: 8.374 ug/l  
RT: 7.63 min Scan# 1877  
Delta R.T. -0.11 min  
Lab File: VN061341.D  
Acq: 7 May 2020 18:02

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 9797  
Ion Ratio Lower Upper  
117 100  
119 5.7 75.8 113.6#  
121 0.0 24.7 37.1#

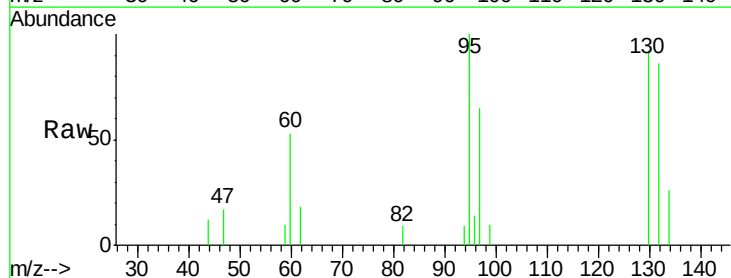


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

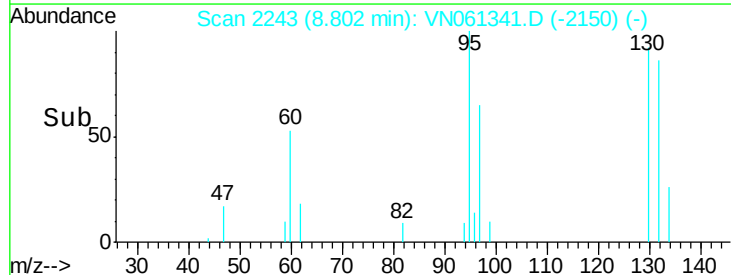
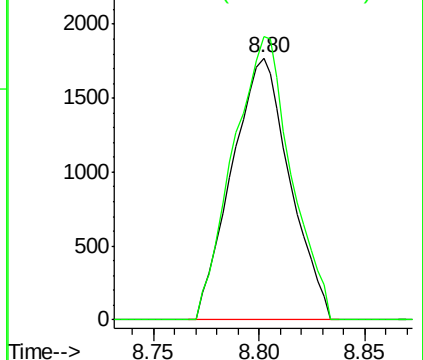


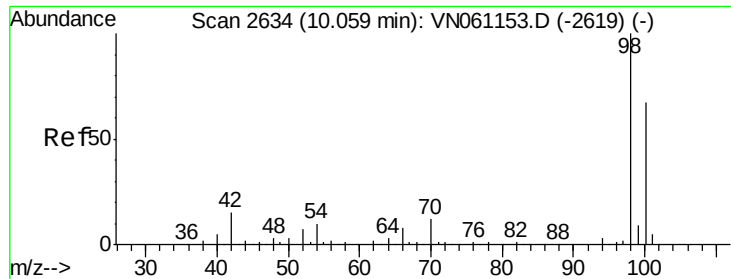
#44  
Trichloroethene  
Concen: 2.495 ug/l  
RT: 8.80 min Scan# 2243  
Delta R.T. 0.00 min  
Lab File: VN061341.D  
Acq: 7 May 2020 18:02

Tgt Ion:130 Resp: 3382  
Ion Ratio Lower Upper  
130 100  
95 108.1 0.0 212.4



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 52.149 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Instrument :

MSVOA\_N

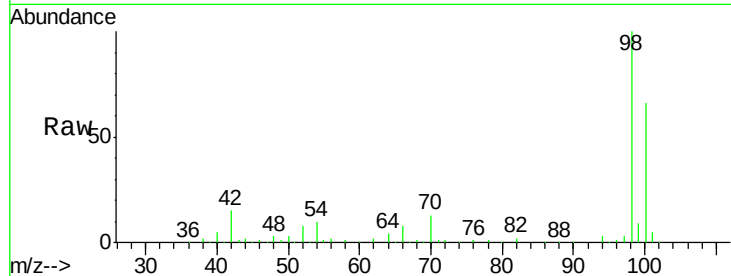
ClientSampled :

Tot Ion: 98 Resp: 211369

Ion Ratio Lower Upper

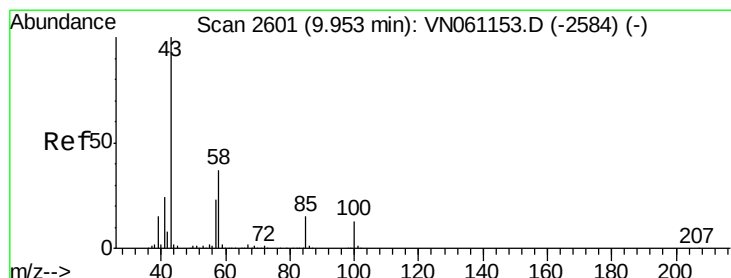
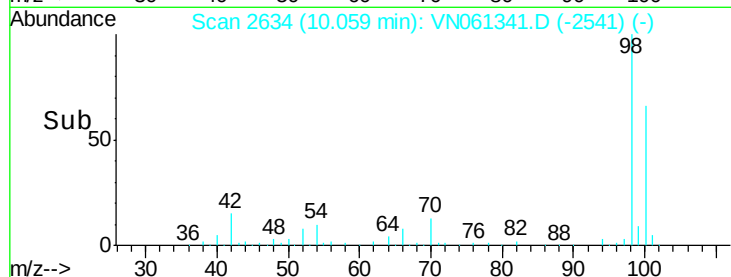
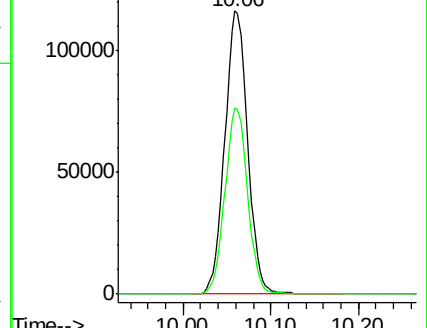
98 100

100 65.2 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN061153.D (-2619) (-)

Ion 100.00 (99.70 to 100.70): VN061153.D (-2619) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.590 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.11 min

Lab File: VN061341.D

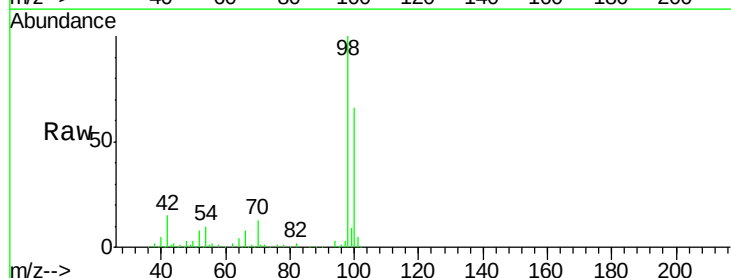
Acq: 7 May 2020 18:02

Tgt Ion: 43 Resp: 1137

Ion Ratio Lower Upper

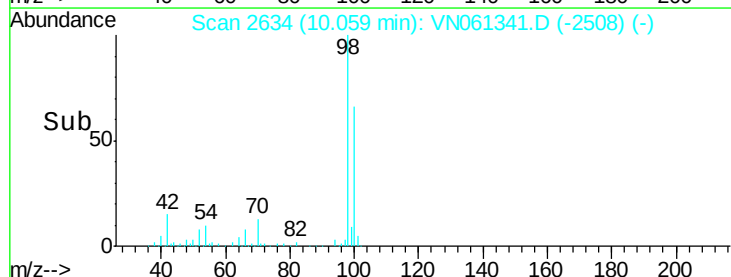
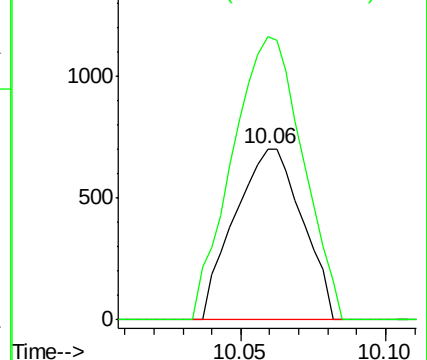
43 100

58 172.2 29.1 43.7#

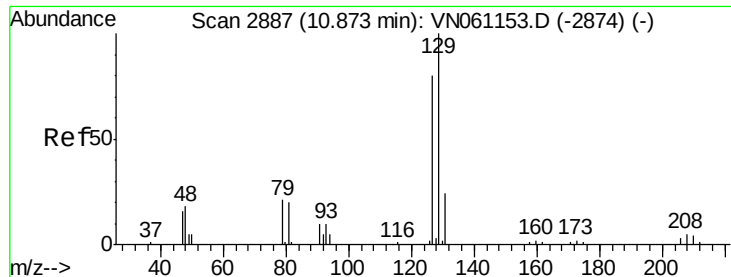


Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2584) (-)

Ion 58.00 (57.70 to 58.70): VN061153.D (-2584) (-)



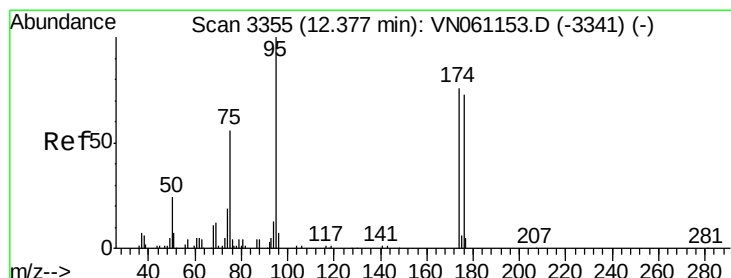
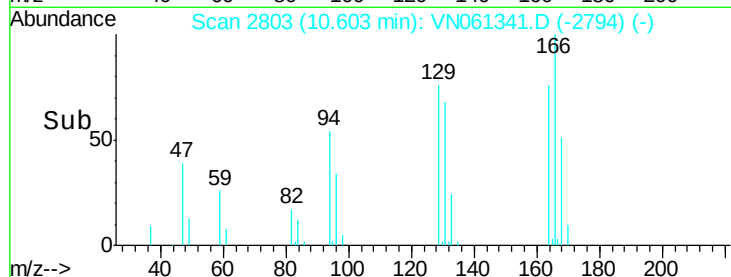
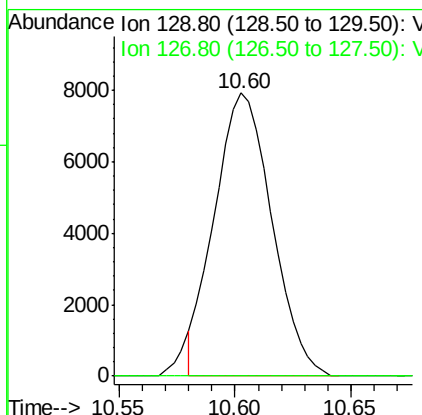
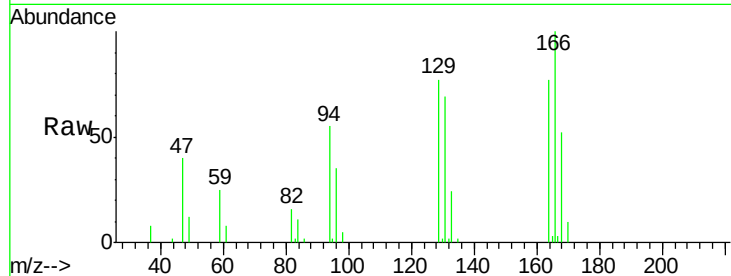




#60  
 Dibromochloromethane  
 Concen: 10.776 ug/l  
 RT: 10.60 min Scan# 2803  
 Delta R.T. -0.27 min  
 Lab File: VN061341.D  
 Acq: 7 May 2020 18:02

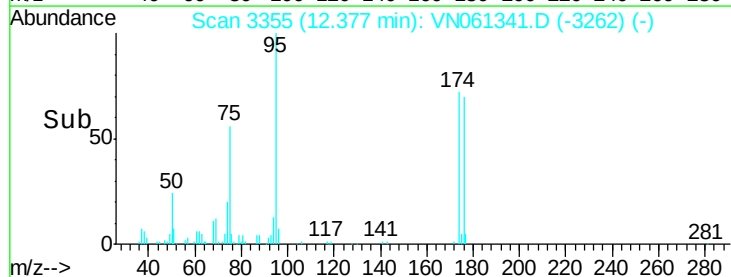
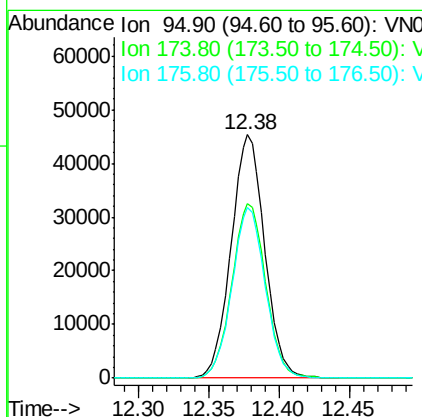
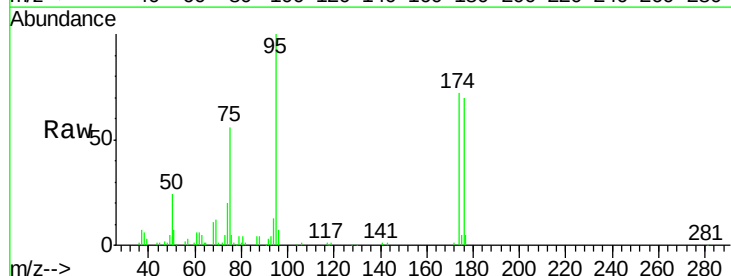
Instrument :  
 MSVOA\_N  
 ClientSampleId :

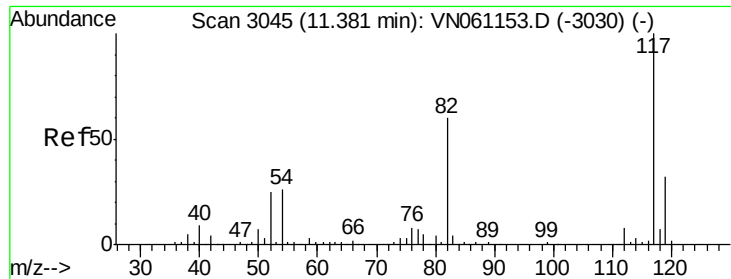
Tot Ion:129 Resp: 13597  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 39.3 117.8#



#62  
 4-Bromofluorobenzene  
 Concen: 49.521 ug/l  
 RT: 12.38 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VN061341.D  
 Acq: 7 May 2020 18:02

Tgt Ion: 95 Resp: 75534  
 Ion Ratio Lower Upper  
 95 100  
 174 72.2 0.0 149.4  
 176 69.4 0.0 144.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Instrument :

MSVOA\_N

ClientSampleId :

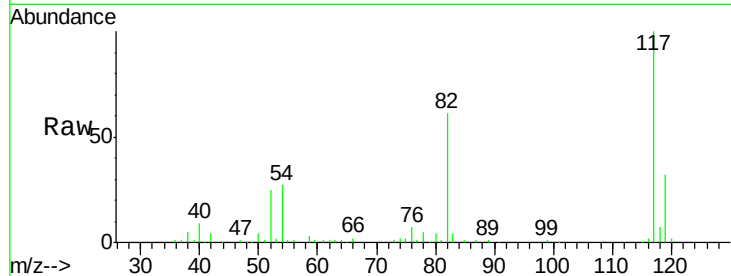
Tot Ion:117 Resp: 160392

Ion Ratio Lower Upper

117 100

82 60.5 47.8 71.8

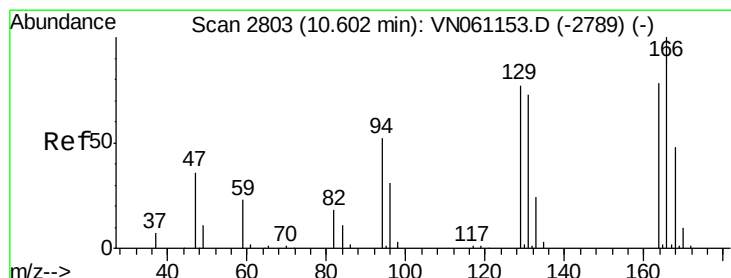
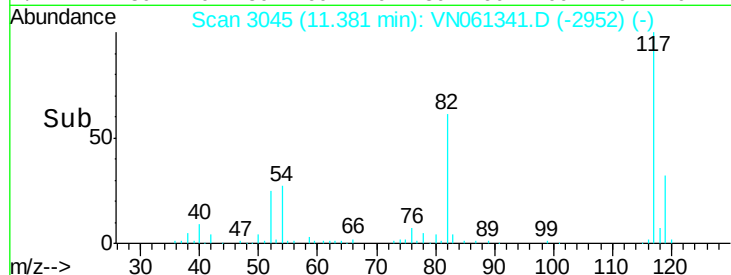
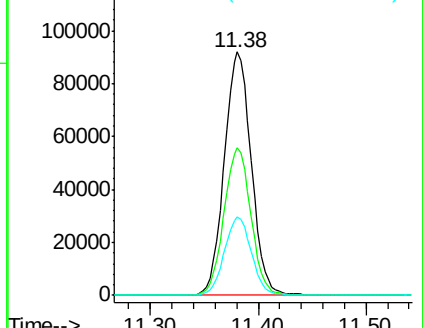
119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 10.263 ug/l

RT: 10.60 min Scan# 2803

Delta R.T. 0.00 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Tgt Ion:164 Resp: 14257

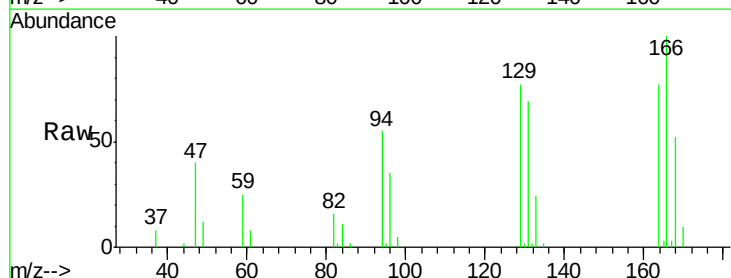
Ion Ratio Lower Upper

164 100

166 130.3 102.0 153.0

129 100.4 78.2 117.2

131 89.7 74.5 111.7

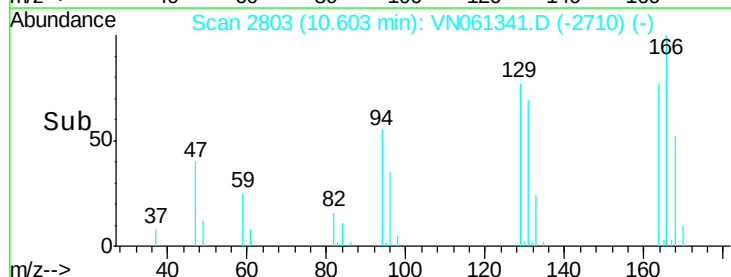
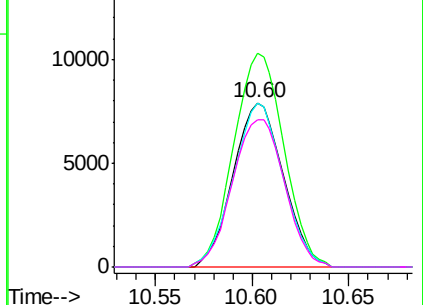


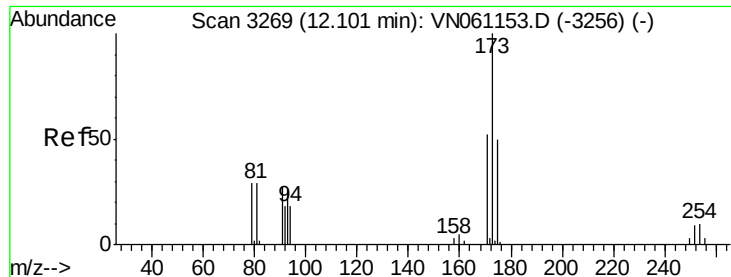
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.324 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. 0.27 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Instrument :

MSVOA\_N

ClientSampleId :

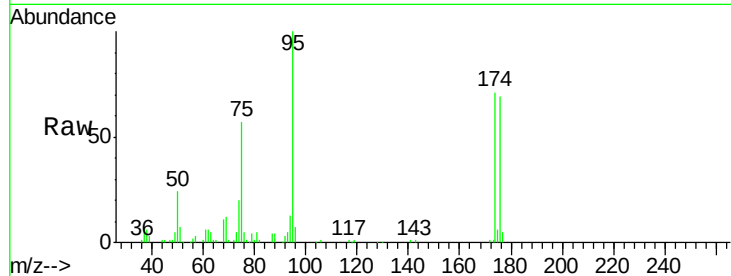
Tot Ion:173 Resp: 271

Ion Ratio Lower Upper

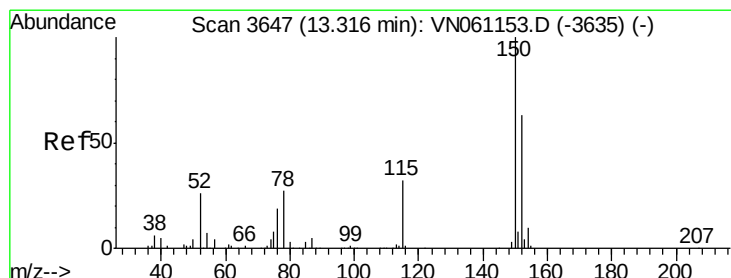
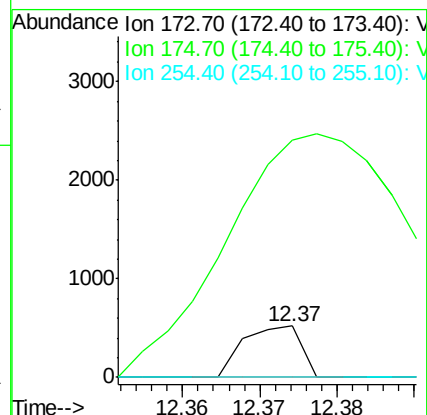
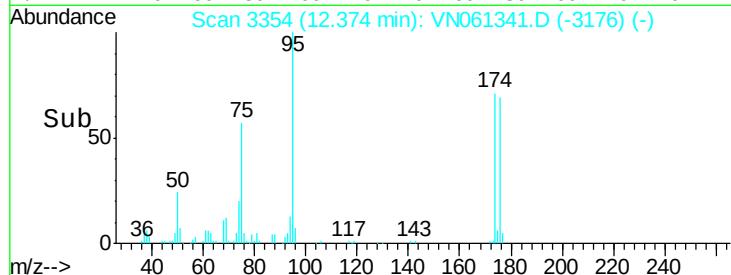
173 100

175 1274.2 24.1 72.4#

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# 3648

Delta R.T. 0.00 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

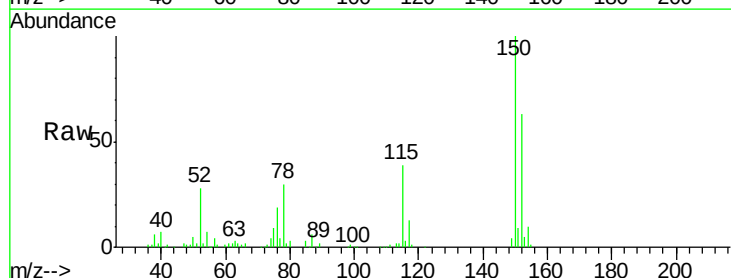
Tgt Ion:152 Resp: 68631

Ion Ratio Lower Upper

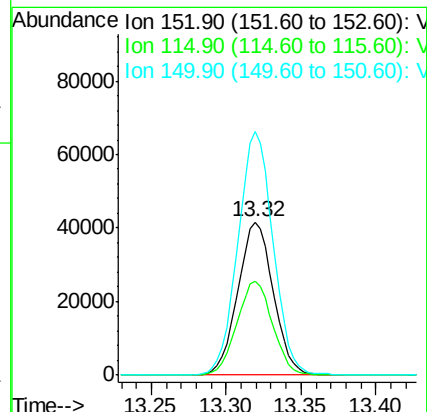
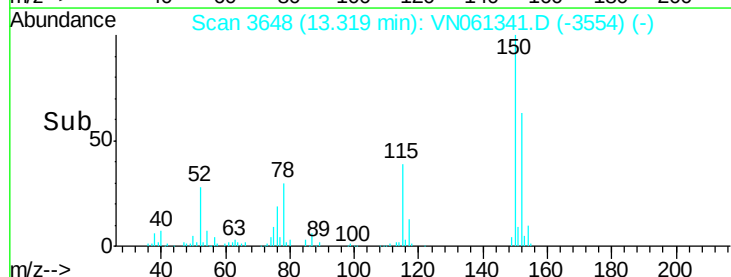
152 100

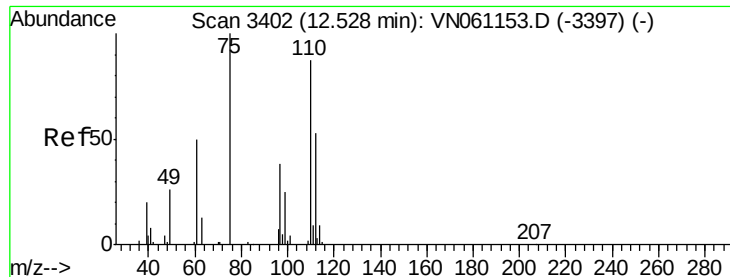
115 61.5 31.0 93.0

150 157.9 0.0 351.8



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: 28.946 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Instrument :

MSVOA\_N

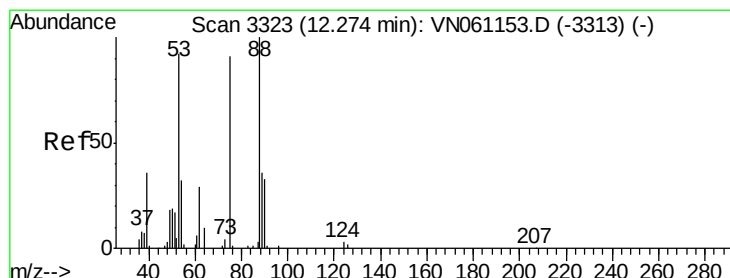
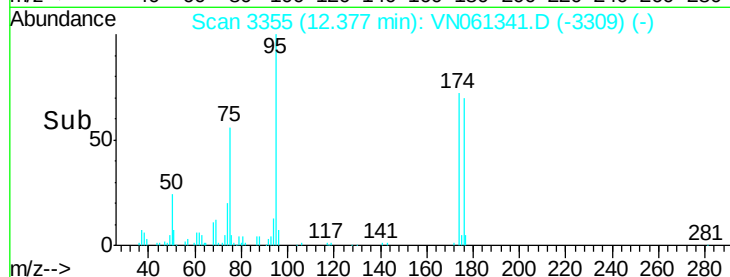
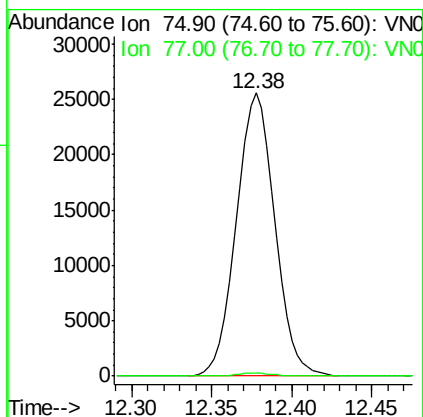
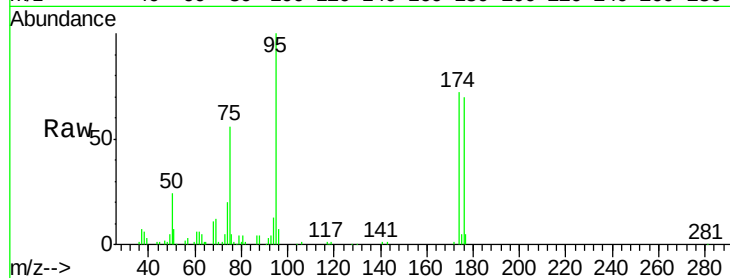
ClientSampled :

Tot Ion: 75 Resp: 41883

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.508 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061341.D

Acq: 7 May 2020 18:02

Tgt Ion: 75 Resp: 41883

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#

