

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062320\  
 Data File : VN062043.D  
 Acq On : 23 Jun 2020 15:33  
 Operator : JC/MD  
 Sample : VN0623WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0623WBL01

Quant Time: Jun 24 01:31:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 155242   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 288048   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 276507   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 103059   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.98  | 65   | 108359   | 52.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.10% |          |
| 35) Dibromofluoromethane    | 7.54  | 113  | 90288    | 49.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.00%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 361045   | 49.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.68%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 116927   | 47.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.10%  |          |

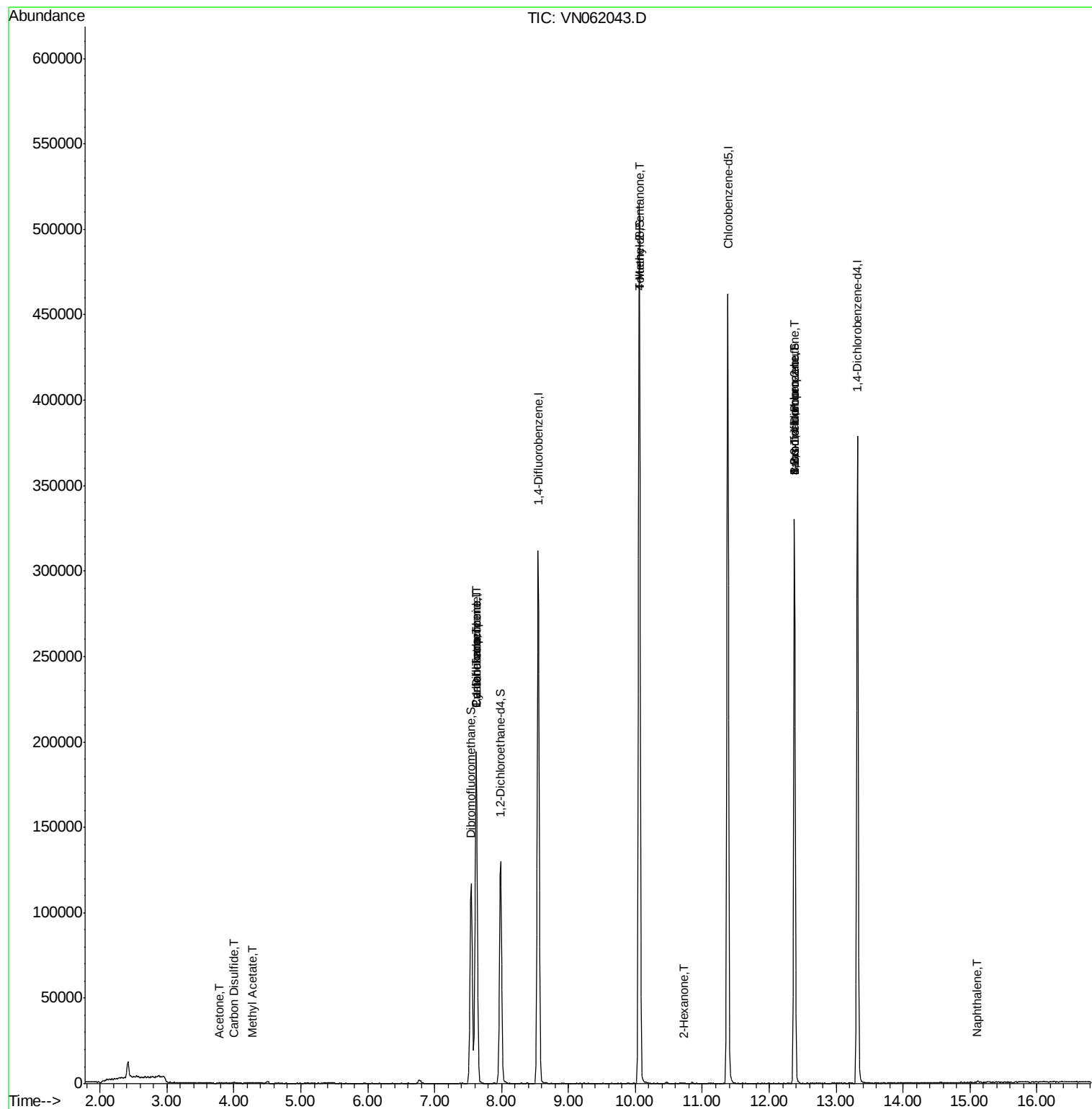
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 342      | 0.556  | ug/l # | 40     |
| 17) Carbon Disulfide           | 4.00  | 76   | 1128     | 0.244  | ug/l # | 75     |
| 18) Methyl Acetate             | 4.28  | 43   | 513      | 0.290  | ug/l # | 46     |
| 31) Cyclohexane                | 7.62  | 56   | 3399     | 1.239  | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 13027    | 4.958  | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 16105    | 6.190  | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1354     | 0.663  | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.72 | 43   | 103      | 13.466 | ug/l # | 20     |
| 71) Bromoform                  | 12.38 | 173  | 997      | 0.672  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 59244    | 29.281 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 59244    | 79.861 | ug/l # | 14     |
| 95) Naphthalene                | 15.11 | 128  | 1170     | 3.695  | ug/l # | 69     |

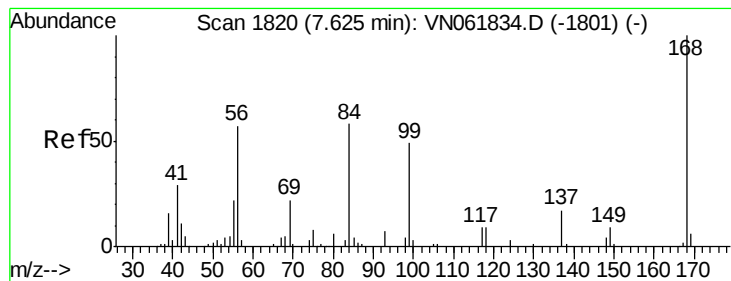
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062320\  
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Sample : VN0623WBL01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0623WBL01

Quant Time: Jun 24 01:31:40 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 17 01:19:44 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN062043.D

Acq: 23 Jun 2020 15:33

Instrument :

MSVOA\_N

ClientSampleId :

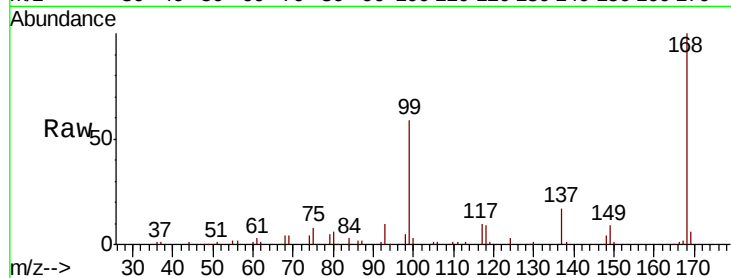
VN0623WBL01

Tot Ion:168 Resp: 155242

Ion Ratio Lower Upper

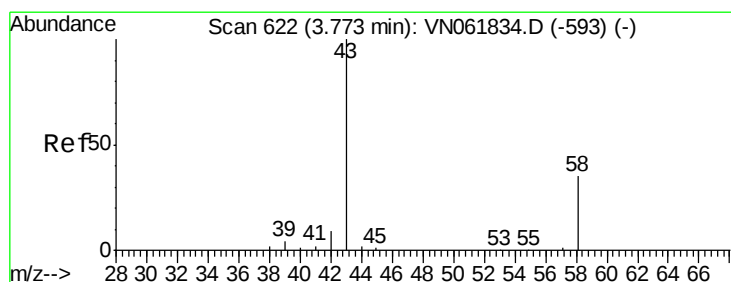
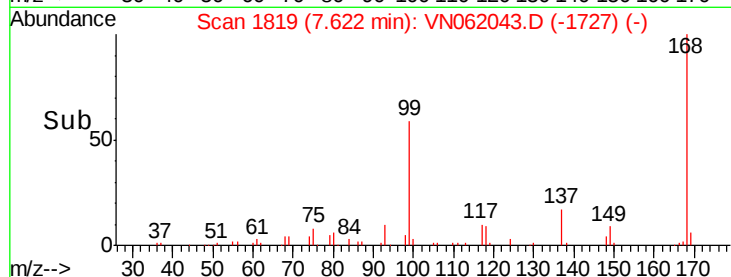
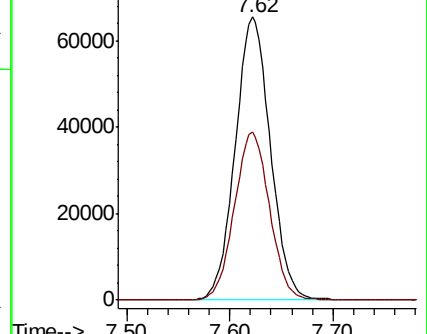
168 100

99 59.3 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 0.556 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.02 min

Lab File: VN062043.D

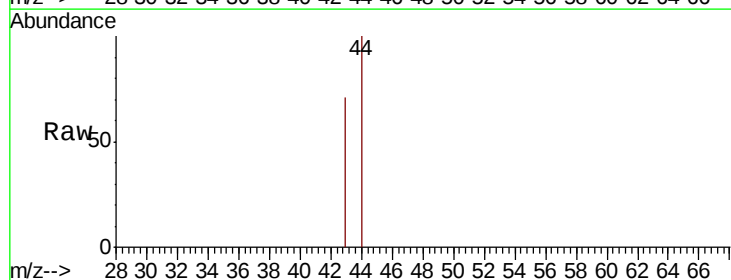
Acq: 23 Jun 2020 15:33

Tgt Ion: 43 Resp: 342

Ion Ratio Lower Upper

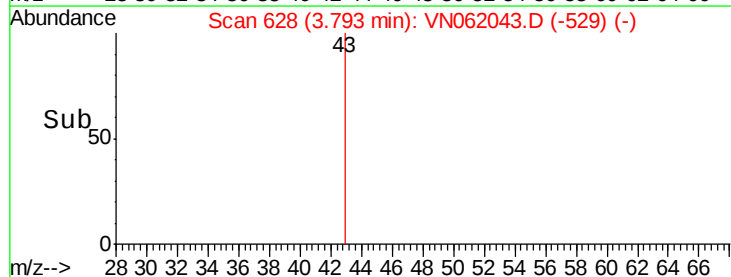
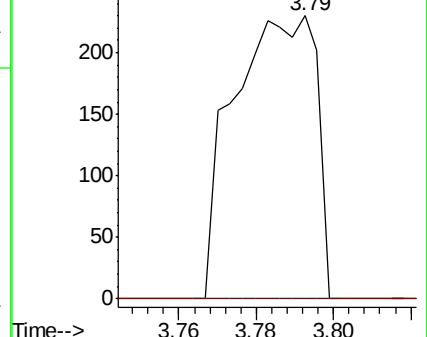
43 100

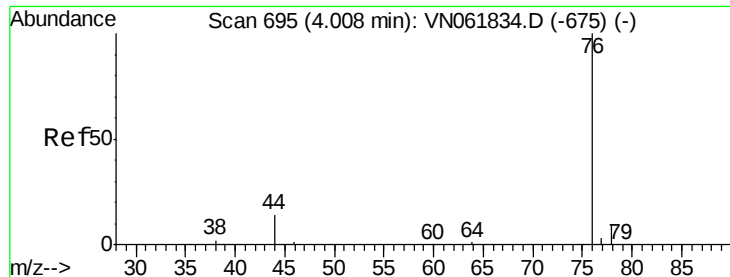
58 0.0 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

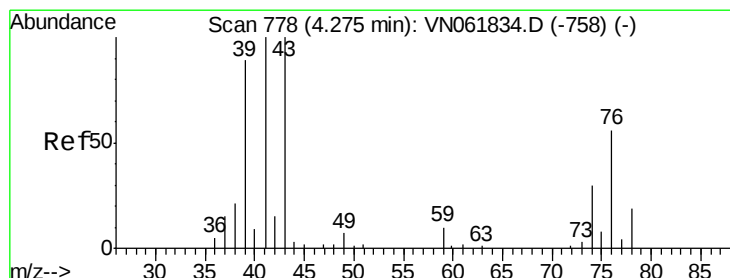
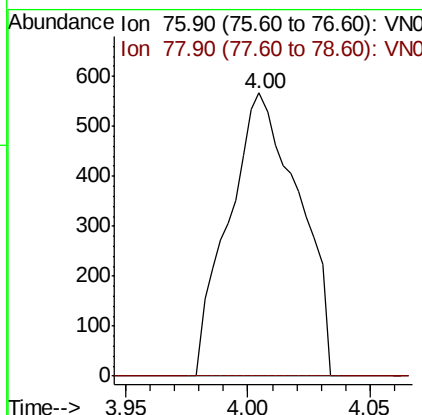
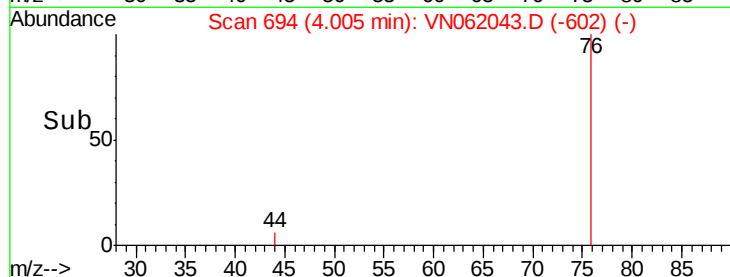
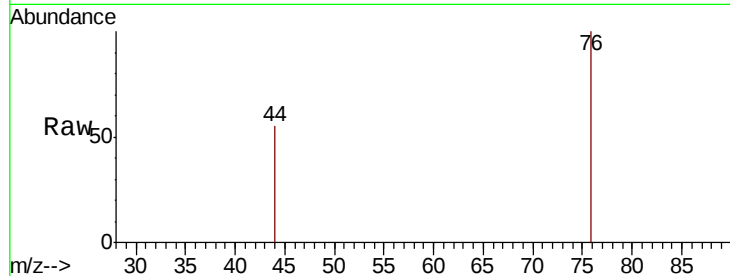




#17  
Carbon Disulfide  
Concen: 0.244 ug/l  
RT: 4.00 min Scan# 694  
Delta R.T. -0.00 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

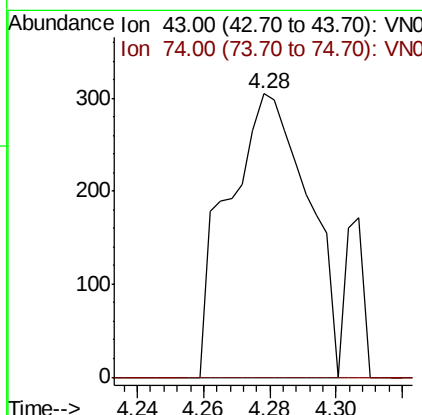
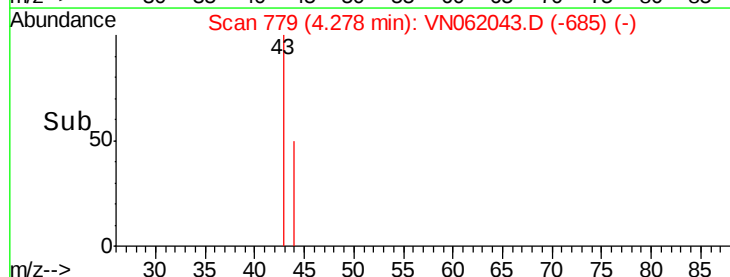
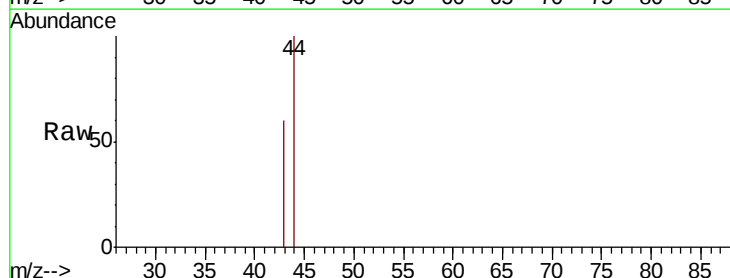
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0623WBL01

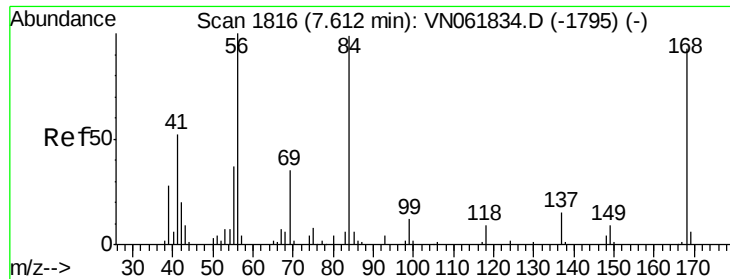
Tot Ion: 76 Resp: 1128  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.3 10.9#



#18  
Methyl Acetate  
Concen: 0.290 ug/l  
RT: 4.28 min Scan# 779  
Delta R.T. 0.00 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

Tgt Ion: 43 Resp: 513  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.0 34.4#

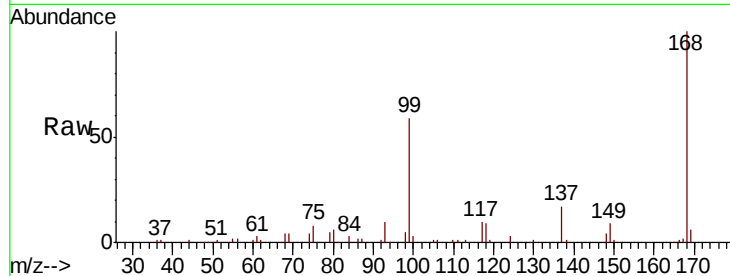




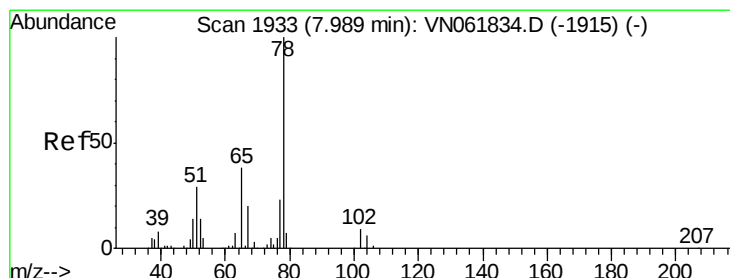
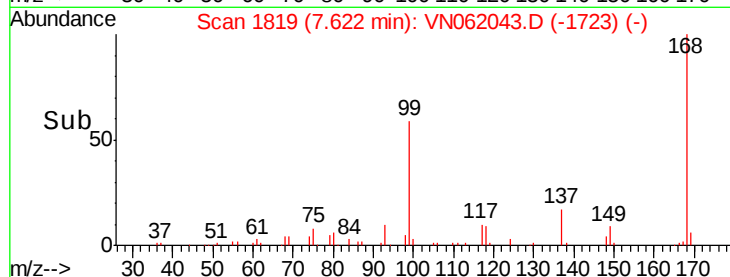
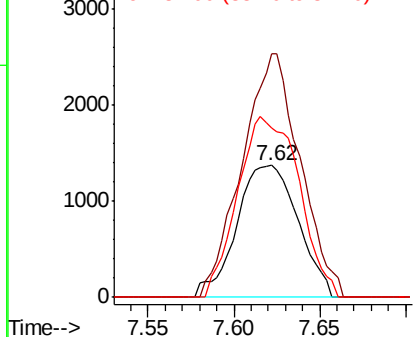
#31  
Cyclohexane  
Concen: 1.239 ug/l  
RT: 7.62 min Scan# 1819  
Delta R.T. 0.01 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0623WBL01

Tot Ion: 56 Resp: 3399  
Ion Ratio Lower Upper  
56 100  
69 184.5 27.7 41.5#  
84 128.5 79.1 118.7#

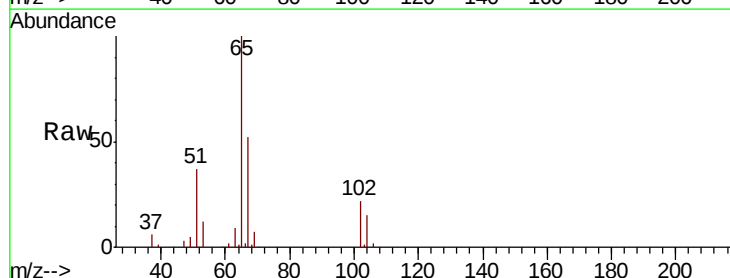


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

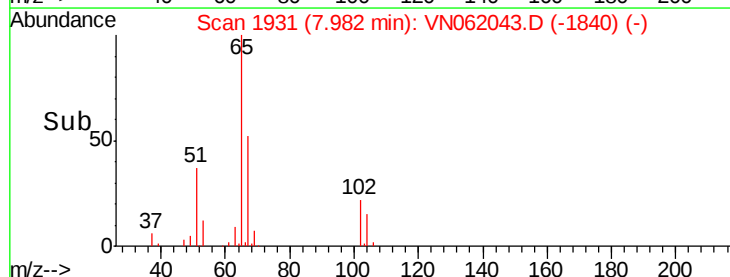
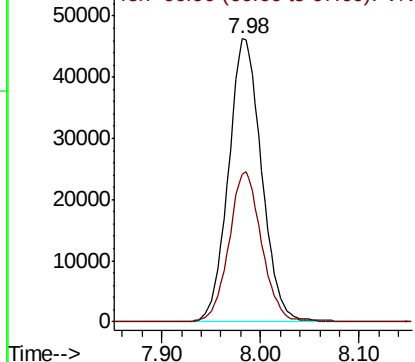


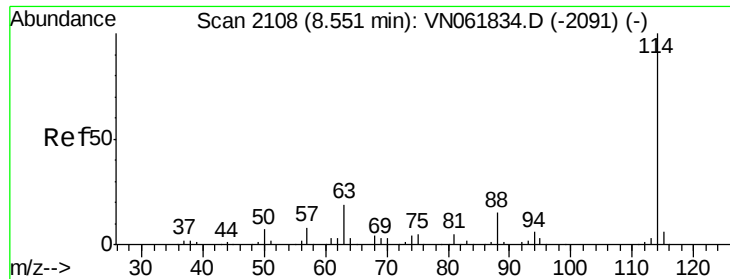
#33  
1,2-Dichloroethane-d4  
Concen: 52.045 ug/l  
RT: 7.98 min Scan# 1931  
Delta R.T. -0.01 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

Tgt Ion: 65 Resp: 108359  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

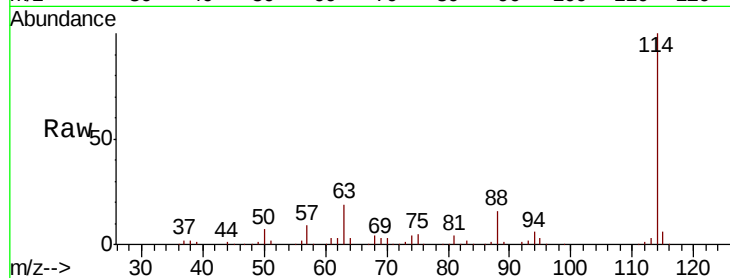




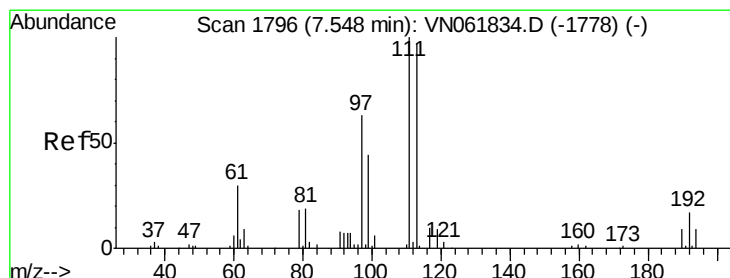
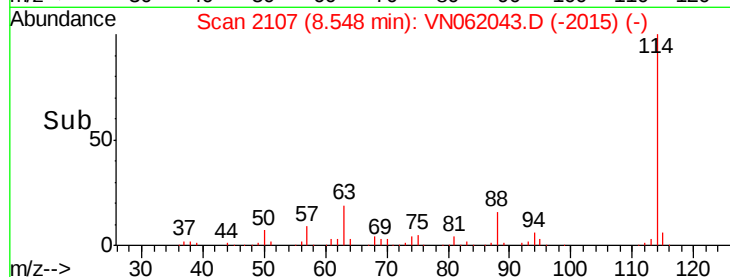
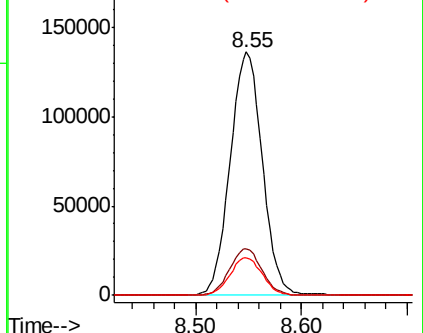
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2107  
Delta R.T. -0.00 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0623WBL01

Tot Ion:114 Resp: 288048  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 37.6  
88 15.7 0.0 31.0

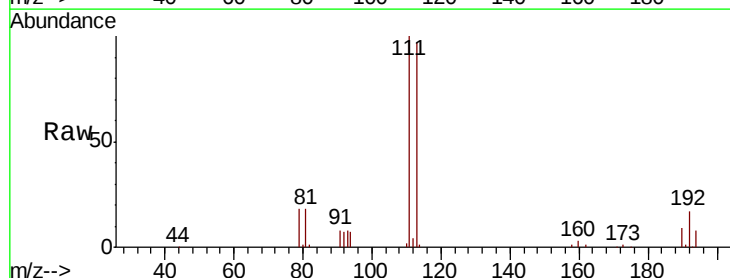


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

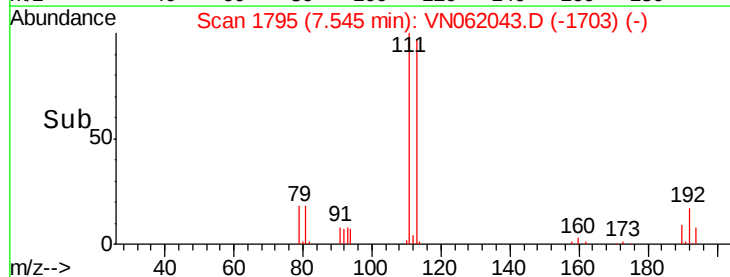
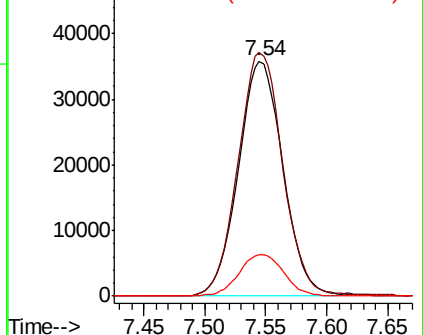


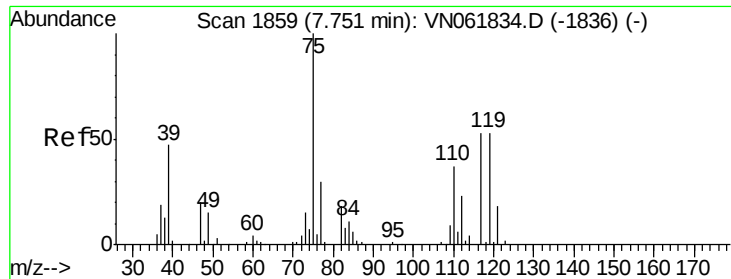
#35  
Dibromofluoromethane  
Concen: 48.996 ug/l  
RT: 7.54 min Scan# 1795  
Delta R.T. -0.00 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

Tgt Ion:113 Resp: 90288  
Ion Ratio Lower Upper  
113 100  
111 104.7 83.7 125.5  
192 17.7 13.9 20.9



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

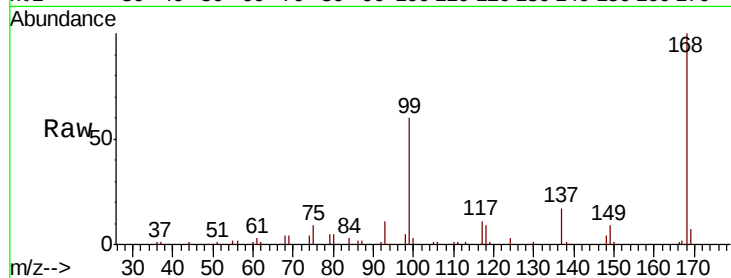




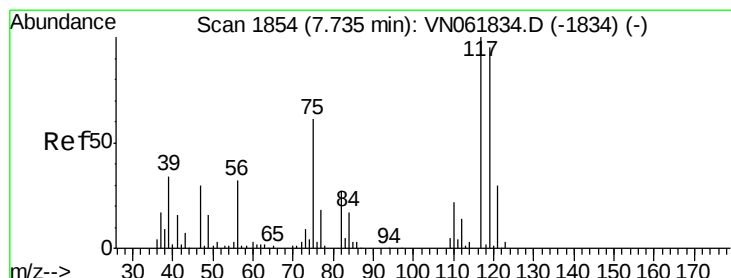
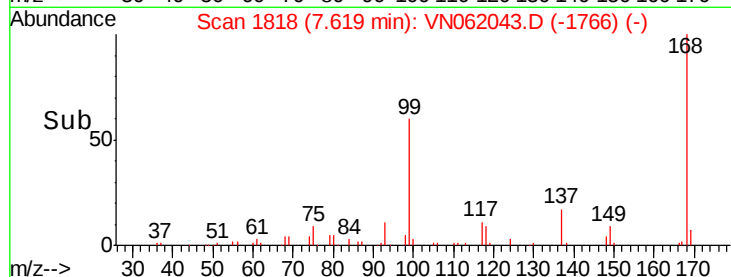
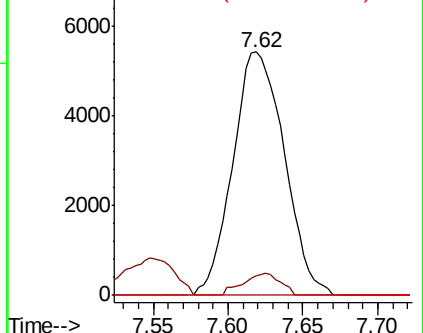
#36  
 1,1-Dichloropropene  
 Concen: 4.958 ug/l  
 RT: 7.62 min Scan# 1818  
 Delta R.T. -0.13 min  
 Lab File: VN062043.D  
 Acq: 23 Jun 2020 15:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0623WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.6   | 18.2  | 54.6# |
| 77      | 0.0   | 24.2  | 36.4# |

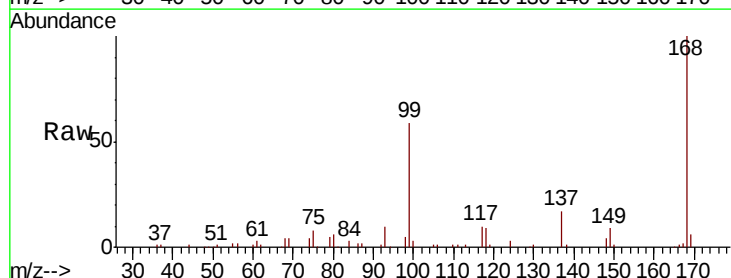


Abundance Ion 74.90 (74.60 to 75.60): VN062043.D (-1766) (-)  
 Ion 109.90 (109.60 to 110.60): VN062043.D (-1766) (-)  
 Ion 76.90 (76.60 to 77.60): VN062043.D (-1766) (-)

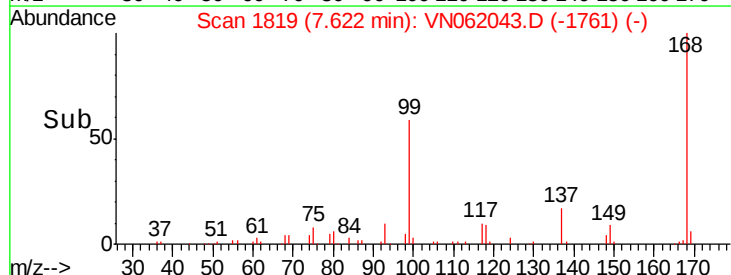
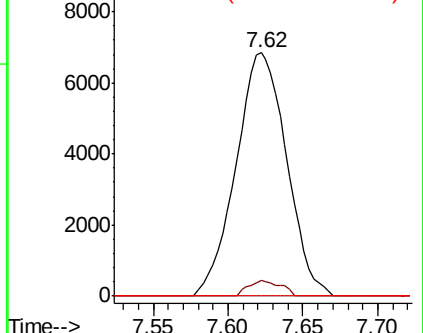


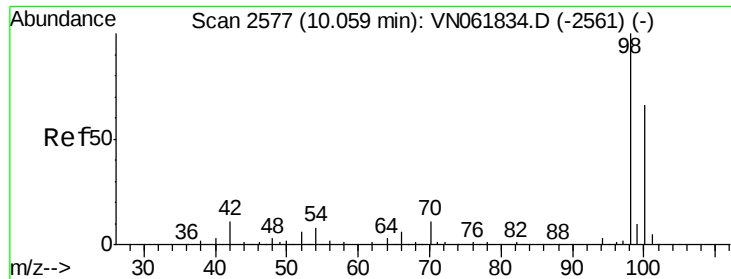
#38  
 Carbon Tetrachloride  
 Concen: 6.190 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.11 min  
 Lab File: VN062043.D  
 Acq: 23 Jun 2020 15:33

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.2   | 75.8  | 113.6# |
| 121     | 0.0   | 23.8  | 35.6#  |



Abundance Ion 116.80 (116.50 to 117.50): VN062043.D (-1761) (-)  
 Ion 118.80 (118.50 to 119.50): VN062043.D (-1761) (-)  
 Ion 120.80 (120.50 to 121.50): VN062043.D (-1761) (-)





#50

Toluene-d8

Concen: 49.836 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062043.D

Acq: 23 Jun 2020 15:33

Instrument :

MSVOA\_N

ClientSampled :

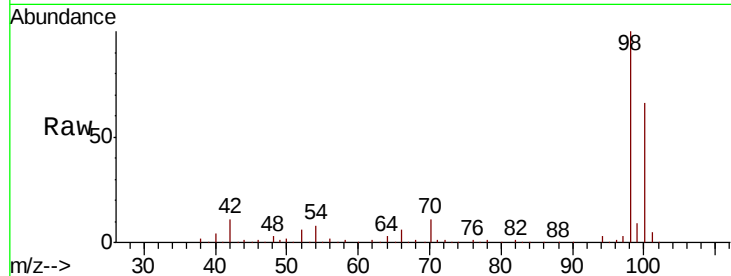
VN0623WBL01

Tot Ion: 98 Resp: 361045

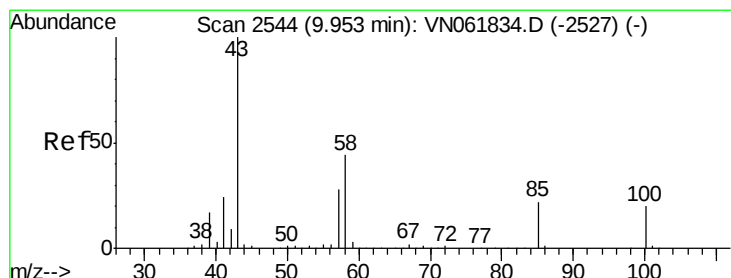
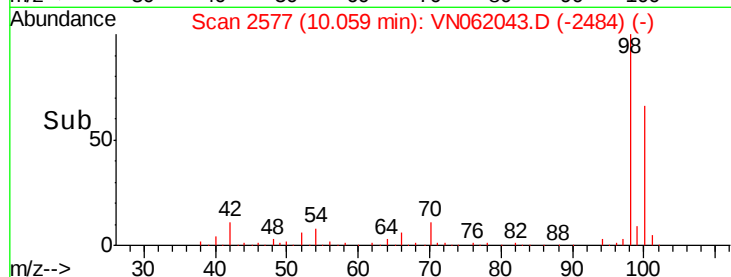
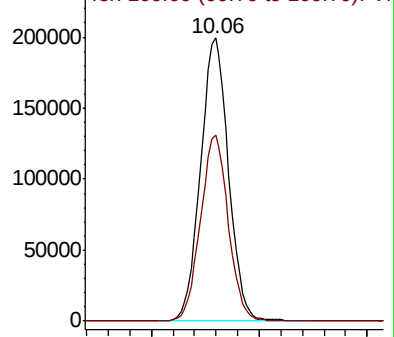
Ion Ratio Lower Upper

98 100

100 65.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.663 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062043.D

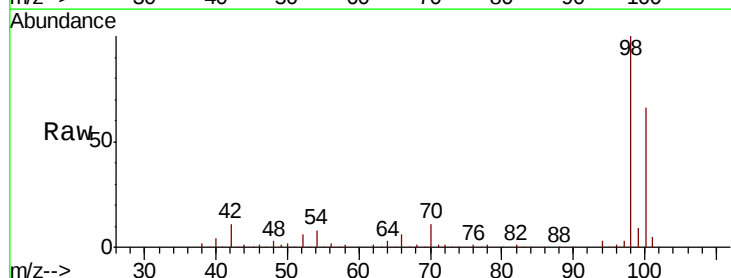
Acq: 23 Jun 2020 15:33

Tgt Ion: 43 Resp: 1354

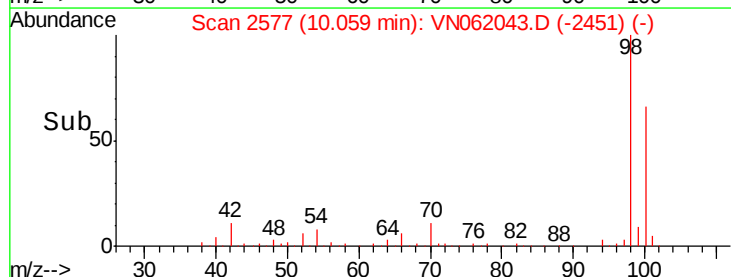
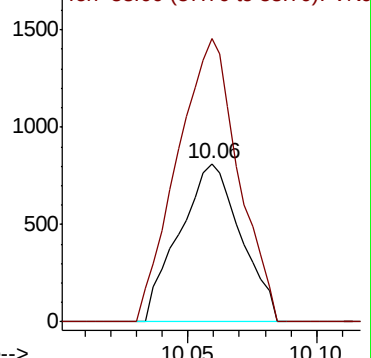
Ion Ratio Lower Upper

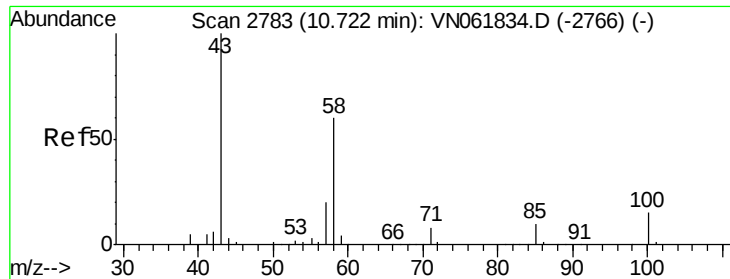
43 100

58 177.4 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

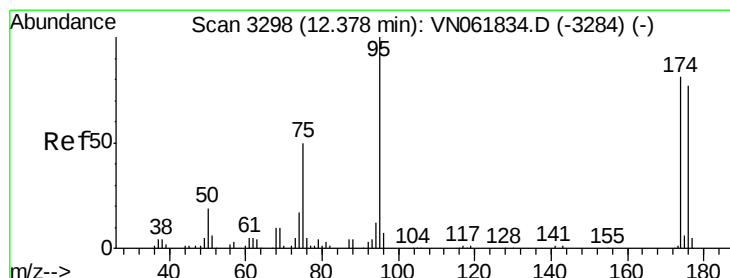
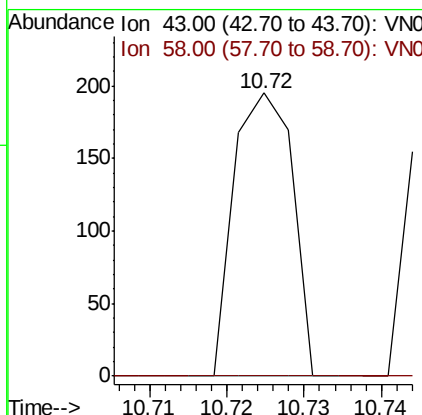
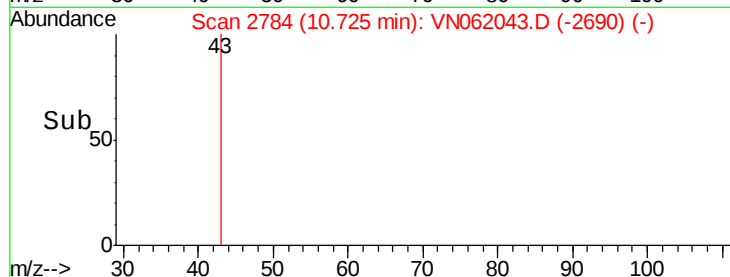
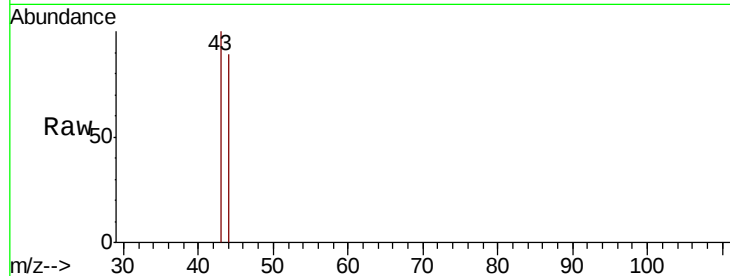




#59  
2-Hexanone  
Concen: 13.466 ug/l  
RT: 10.72 min Scan# 2784  
Delta R.T. 0.00 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

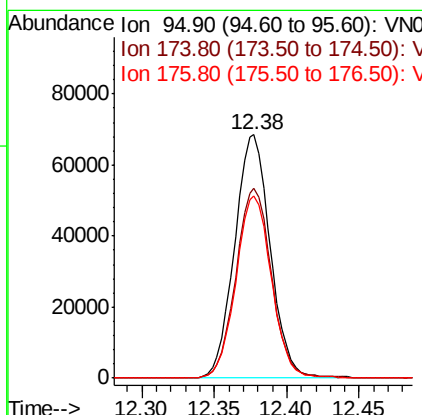
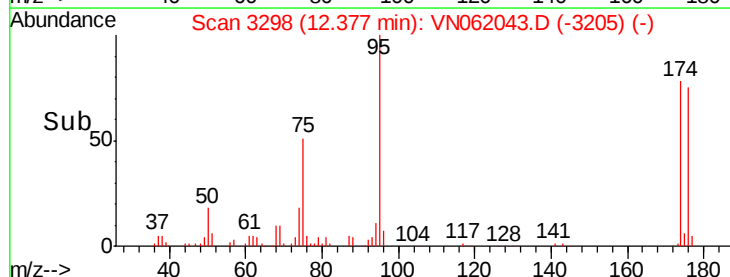
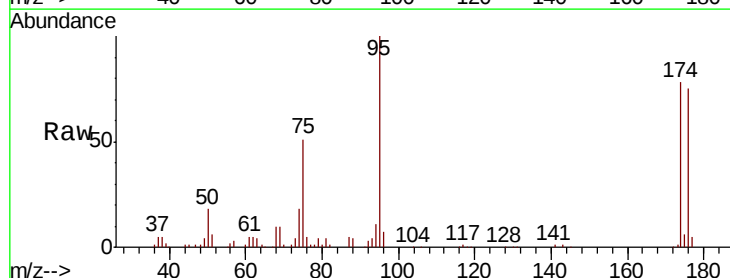
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0623WBL01

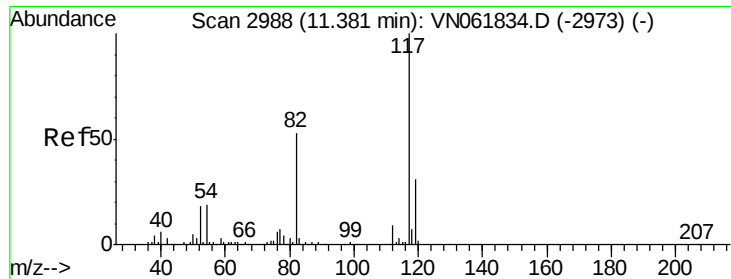
Tot Ion: 43 Resp: 103  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.1 90.5#



#62  
4-Bromofluorobenzene  
Concen: 47.052 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. -0.00 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

Tgt Ion: 95 Resp: 116927  
Ion Ratio Lower Upper  
95 100  
174 78.3 0.0 158.6  
176 74.9 0.0 152.0

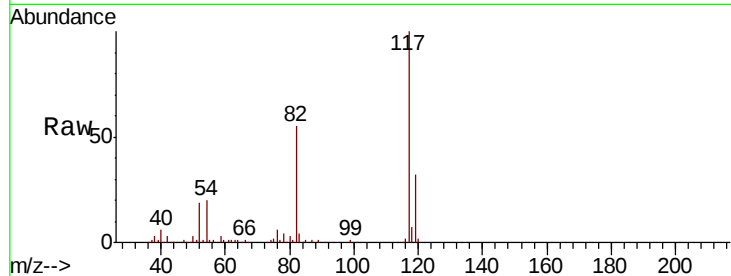




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0623WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.5  | 42.6  | 64.0  |
| 119     | 32.5  | 24.7  | 37.1  |

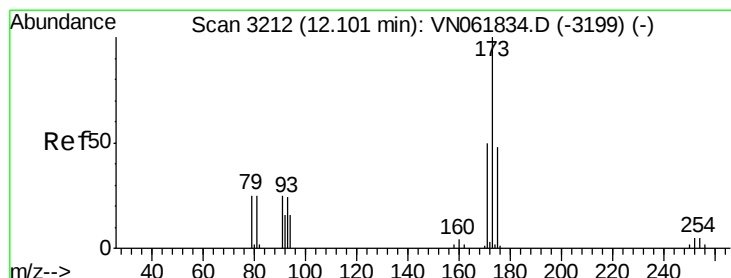
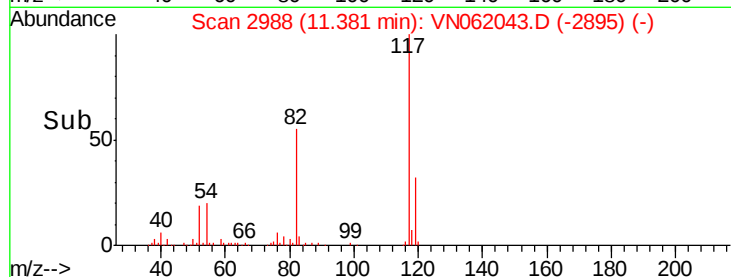
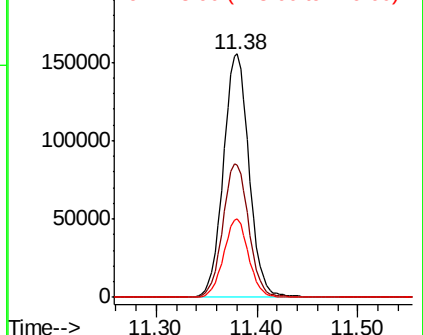


Abundance

Ion 116.90 (116.60 to 117.60): V

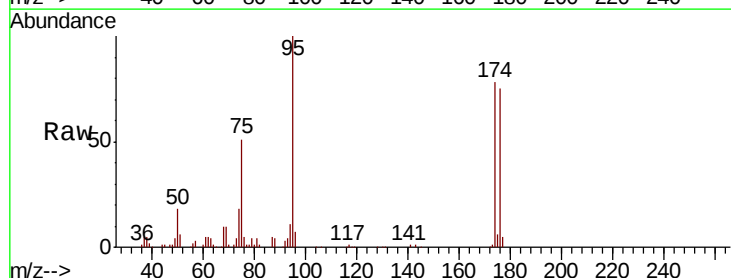
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71  
Bromoform  
Concen: 0.672 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. 0.28 min  
Lab File: VN062043.D  
Acq: 23 Jun 2020 15:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 577.0 | 23.9  | 71.7# |
| 254     | 0.0   | 0.0   | 0.0   |

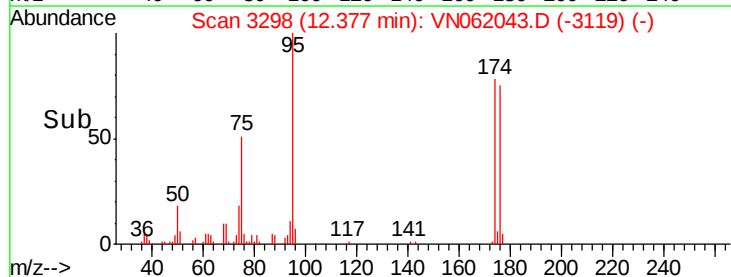
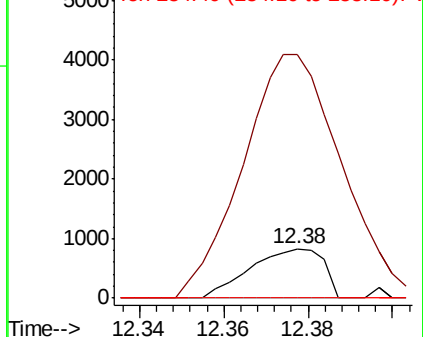


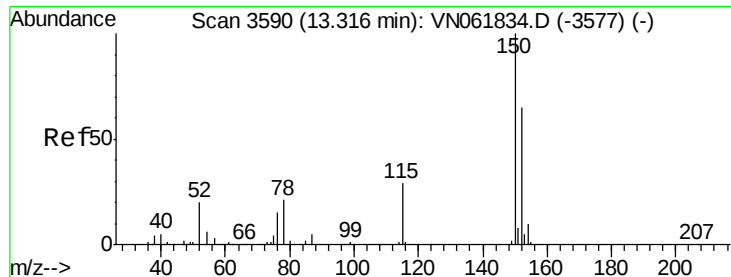
Abundance

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: VN062043.D

Acq: 23 Jun 2020 15:33

Instrument :

MSVOA\_N

ClientSampleId :

VN0623WBL01

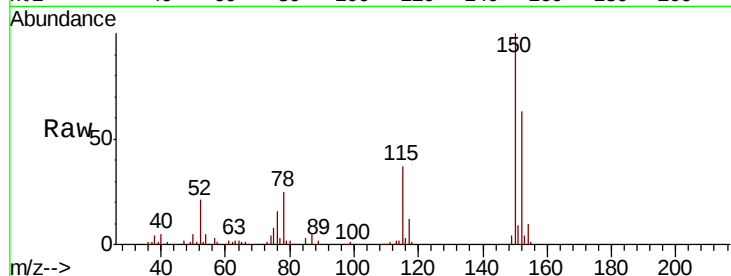
Tot Ion:152 Resp: 103059

Ion Ratio Lower Upper

152 100

115 59.0 29.1 87.3

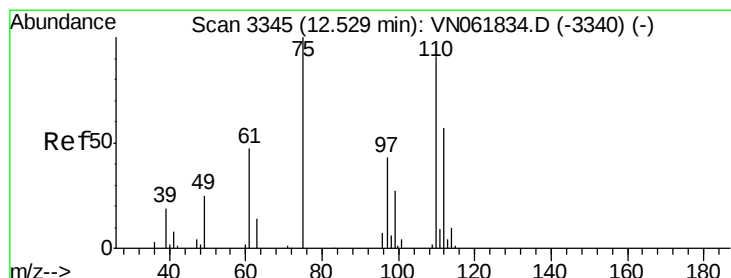
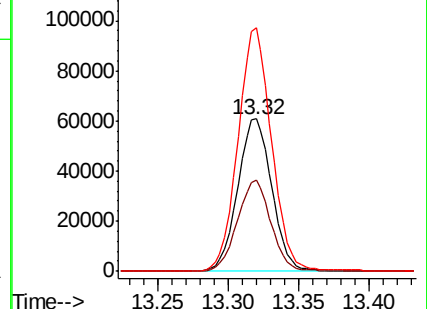
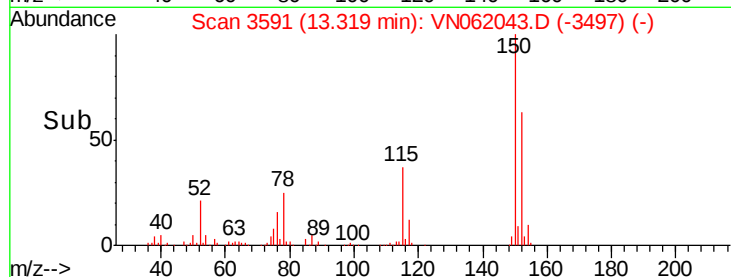
150 156.8 0.0 347.6



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: 29.281 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062043.D

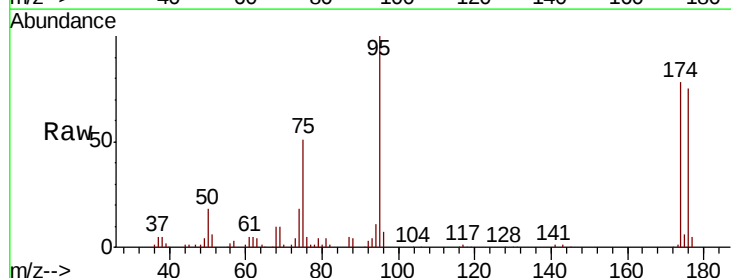
Acq: 23 Jun 2020 15:33

Tgt Ion: 75 Resp: 59244

Ion Ratio Lower Upper

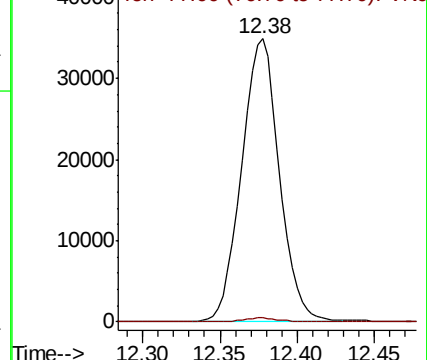
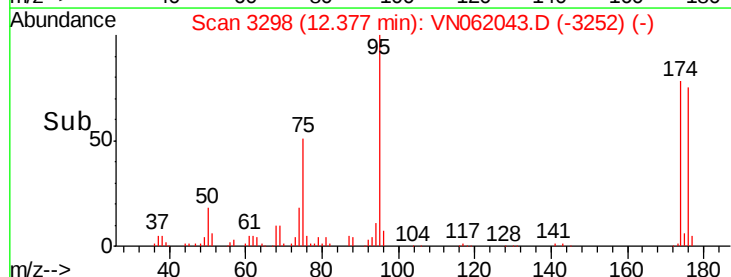
75 100

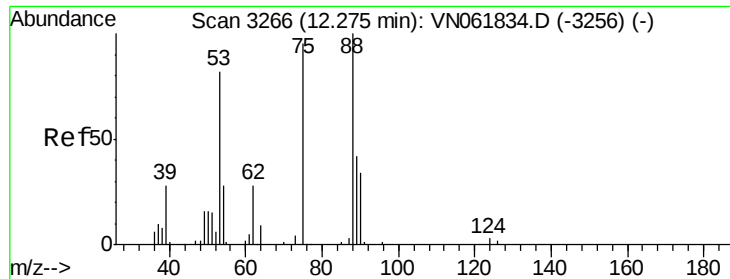
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 79.861 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062043.D

Acq: 23 Jun 2020 15:33

Instrument :

MSVOA\_N

ClientSampleId :

VN0623WBL01

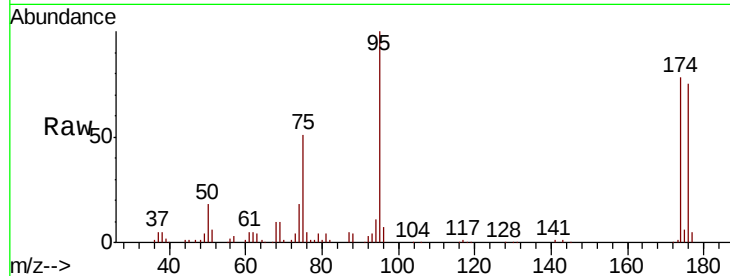
Tot Ion: 75 Resp: 59244

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

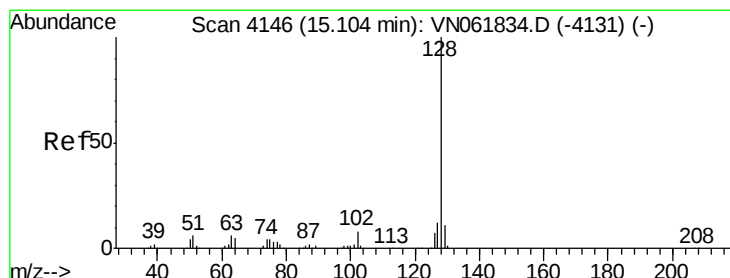
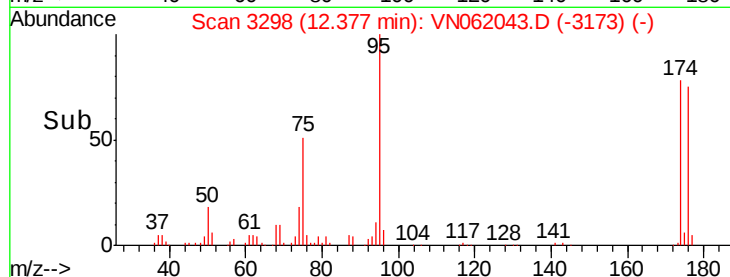
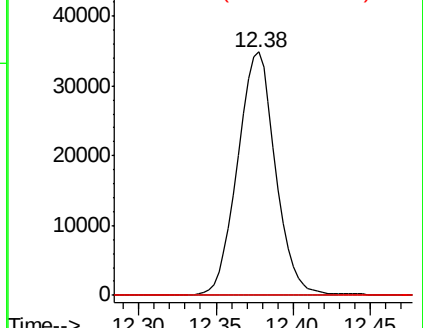
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061834.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061834.D (-3256) (-)



#95

Naphthalene

Concen: 3.695 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062043.D

Acq: 23 Jun 2020 15:33

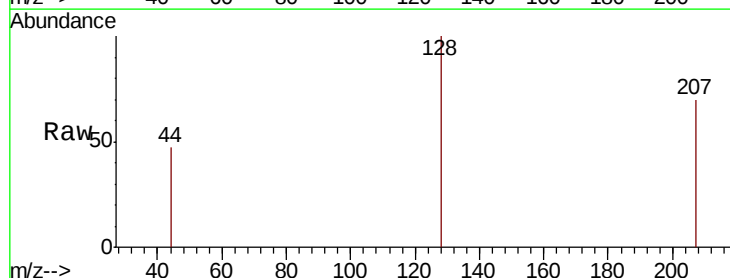
Tgt Ion: 128 Resp: 1170

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN061834.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN061834.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN061834.D (-4131) (-)

