

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041720\  
 Data File : VN061073.D  
 Acq On : 18 Apr 2020 00:28  
 Operator : JC/MD  
 Sample : L2338-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 20 01:39:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 17 03:49:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 144883   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 248127   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 229206   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 99472    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 98890    | 53.35 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.70% |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 74701    | 51.55 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.10% |          |
| 50) Toluene-d8              | 10.08 | 98   | 304684   | 55.64 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 111.28% |          |
| 62) 4-Bromofluorobenzene    | 12.39 | 95   | 111547   | 51.98 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.96% |          |

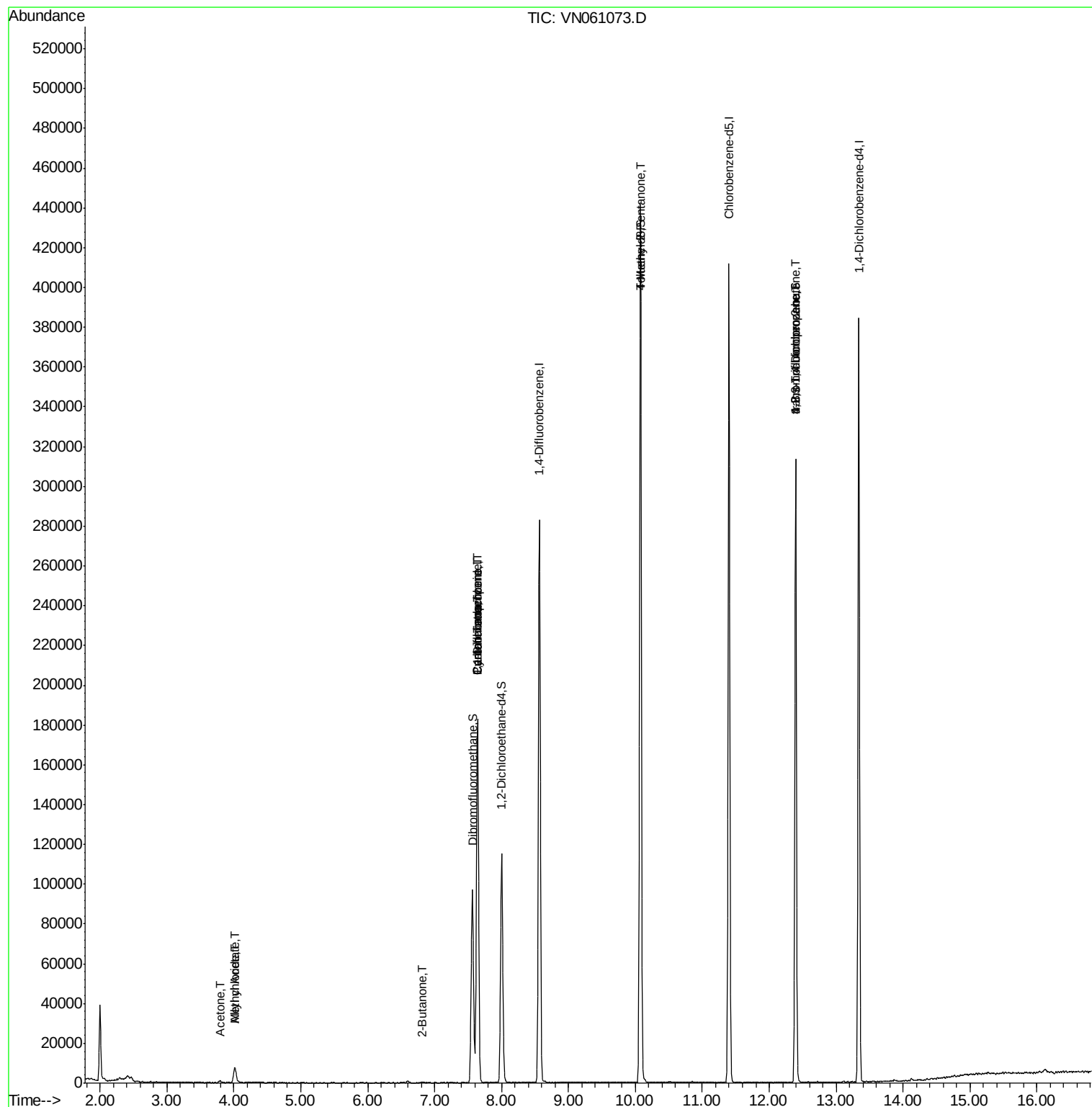
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 14) Allyl chloride             | 4.01  | 41   | 1008     | 0.336  | ug/l # | 42     |
| 16) Acetone                    | 3.79  | 43   | 1812     | 2.221  | ug/l   | 100    |
| 18) Methyl Acetate             | 4.01  | 43   | 2792     | 1.091  | ug/l # | 54     |
| 25) 2-Butanone                 | 6.80  | 43   | 474      | 0.379  | ug/l # | 51     |
| 31) Cyclohexane                | 7.64  | 56   | 3522     | 1.020  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 11946    | 4.666  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 13567    | 6.366  | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 1320     | 0.506  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.39 | 75   | 57905    | 26.465 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 57905    | 65.278 | ug/l # | 12     |

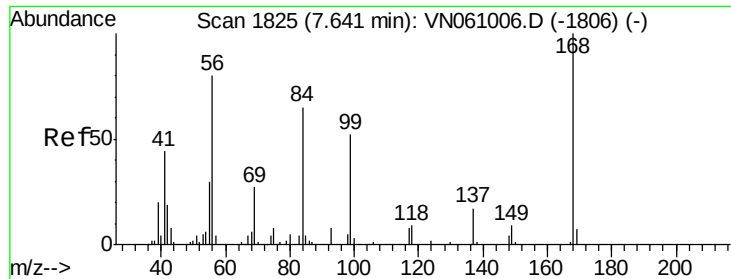
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 20 01:39:51 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N041620W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 17 03:49:39 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061073.D

Acq: 18 Apr 2020 00:28

Instrument :

MSVOA\_N

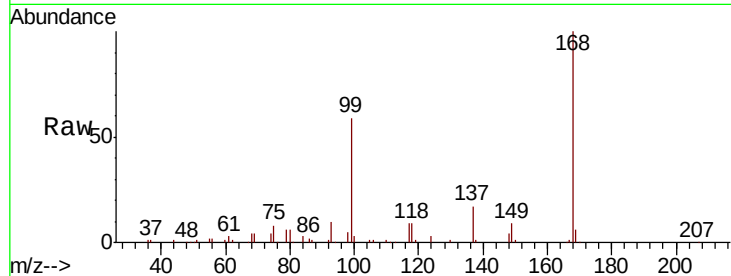
ClientSampleId :

Tot Ion:168 Resp: 144883

Ion Ratio Lower Upper

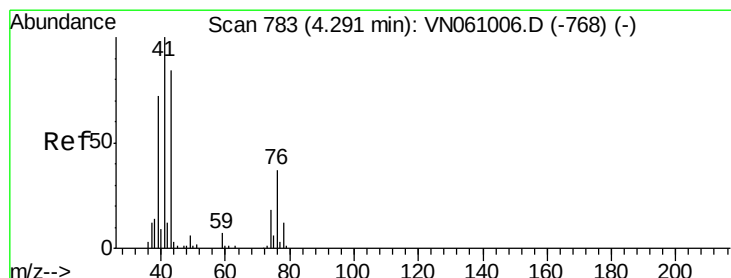
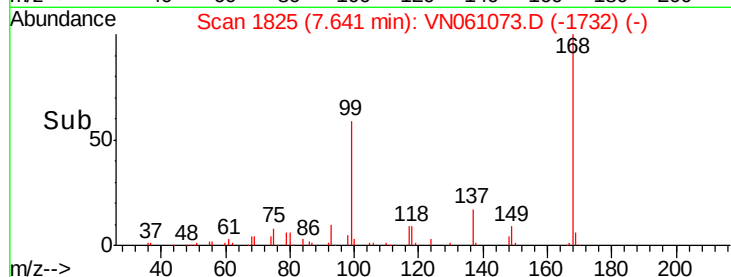
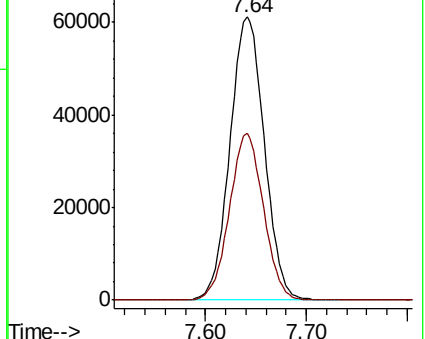
168 100

99 59.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#14

Allyl chloride

Concen: 0.336 ug/l

RT: 4.01 min Scan# 695

Delta R.T. -0.28 min

Lab File: VN061073.D

Acq: 18 Apr 2020 00:28

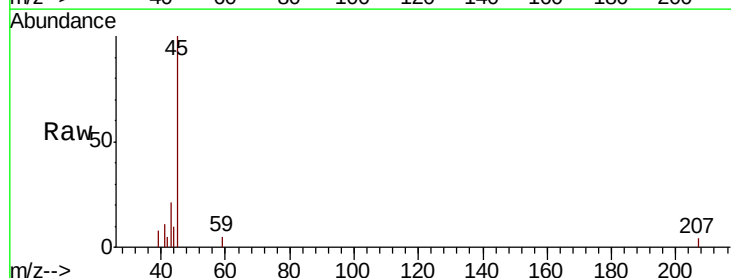
Tgt Ion: 41 Resp: 1008

Ion Ratio Lower Upper

41 100

39 5.7 56.3 84.5#

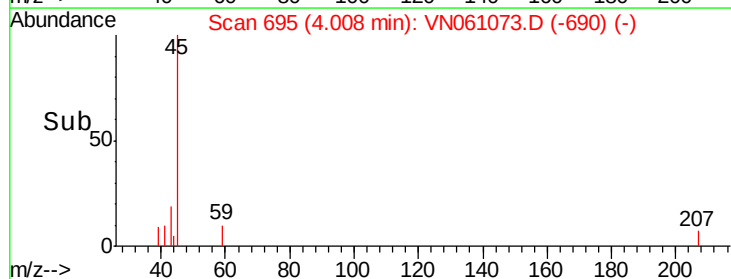
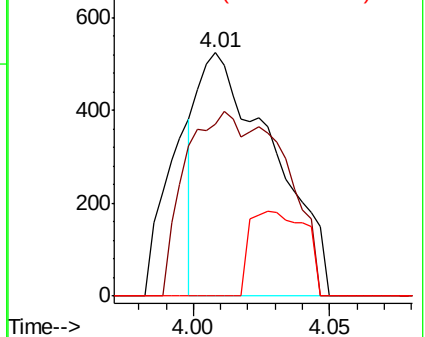
76 25.5 27.7 41.5#

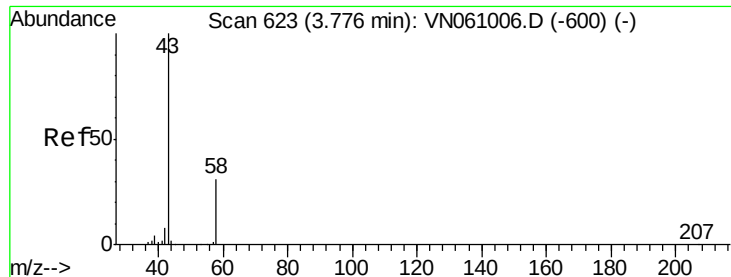


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN





#16

Acetone

Concen: 2.221 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.02 min

Lab File: VN061073.D

Acq: 18 Apr 2020 00:28

Instrument :

MSVOA\_N

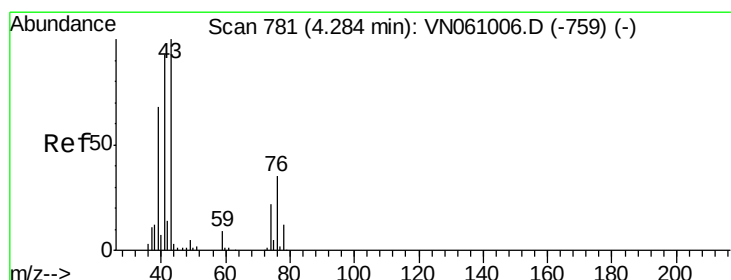
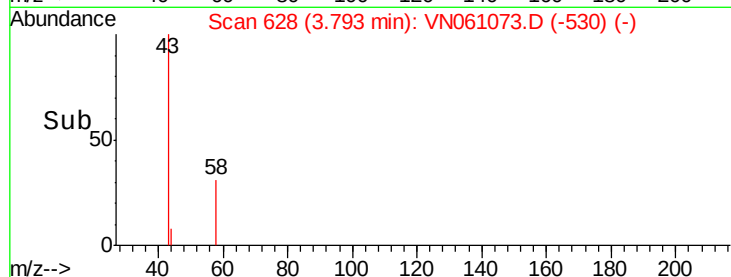
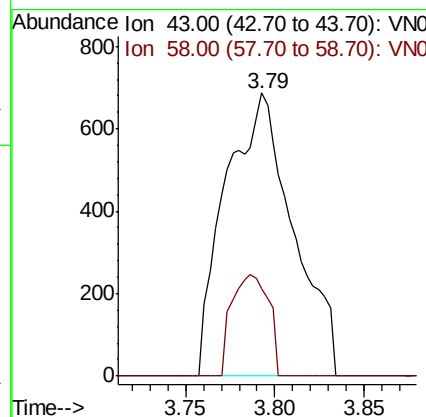
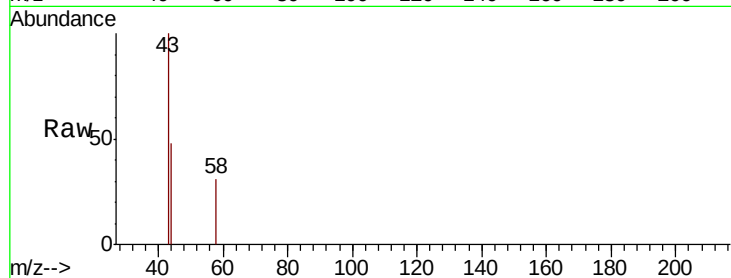
ClientSampleId :

Tot Ion: 43 Resp: 1812

Ion Ratio Lower Upper

43 100

58 30.7 24.6 37.0



#18

Methyl Acetate

Concen: 1.091 ug/l

RT: 4.01 min Scan# 697

Delta R.T. -0.27 min

Lab File: VN061073.D

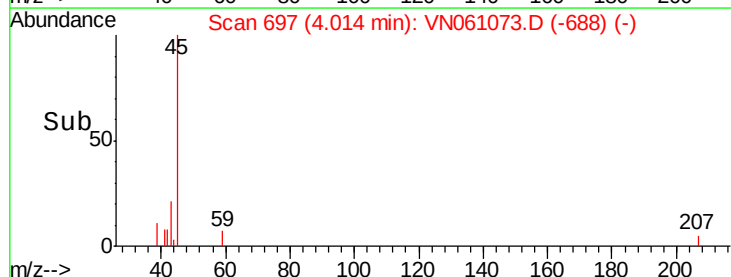
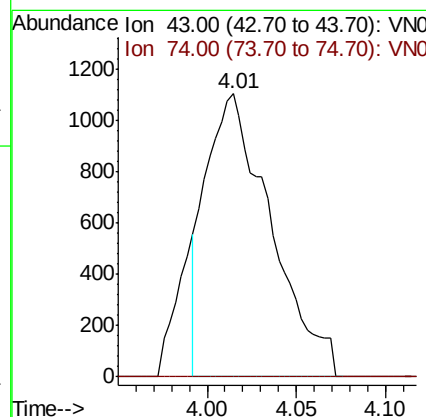
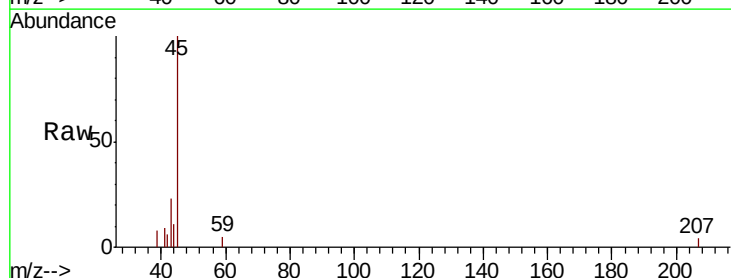
Acq: 18 Apr 2020 00:28

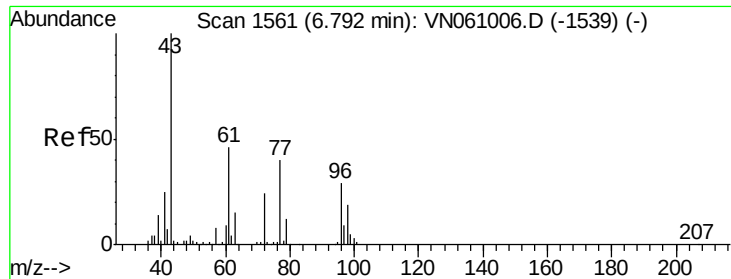
Tgt Ion: 43 Resp: 2792

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.0#

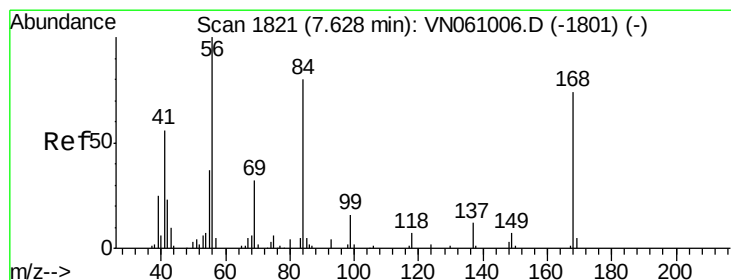
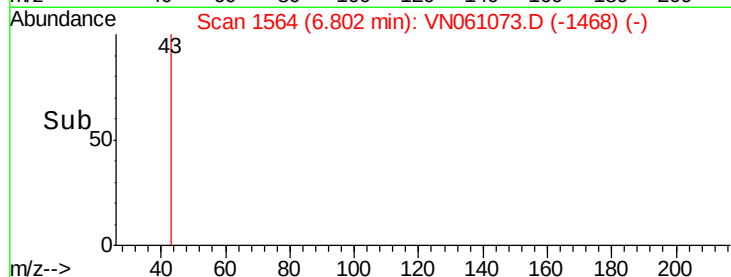
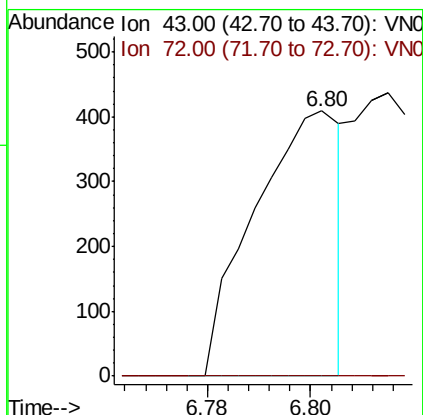
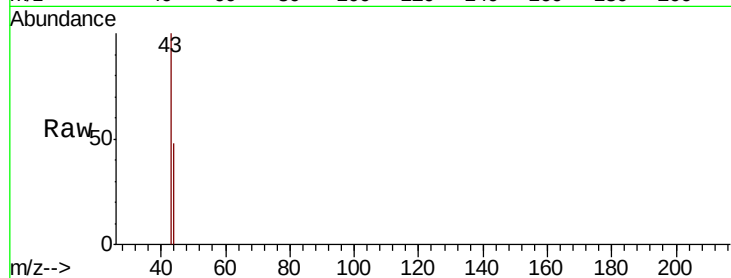




#25  
2-Butanone  
Concen: 0.379 ug/l  
RT: 6.80 min Scan# 1564  
Delta R.T. 0.01 min  
Lab File: VN061073.D  
Acq: 18 Apr 2020 00:28

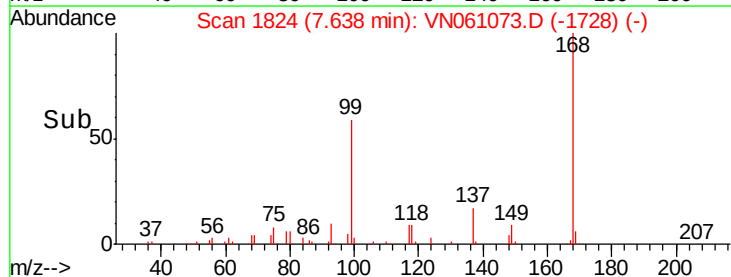
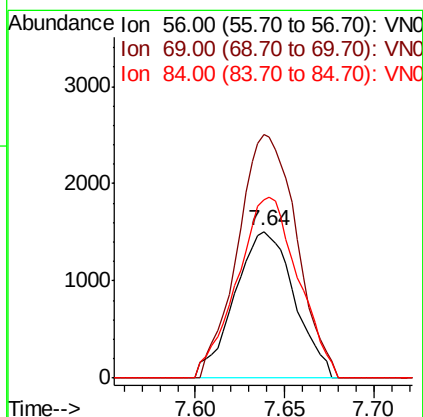
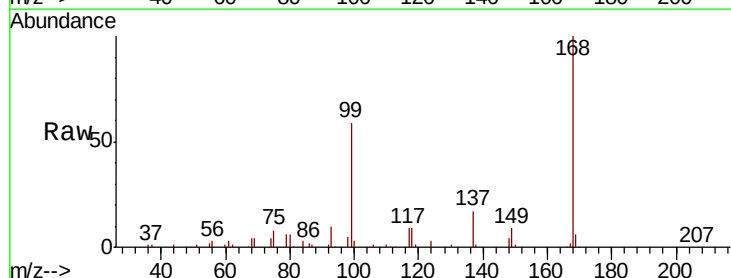
Instrument :  
MSVOA\_N  
ClientSampled :

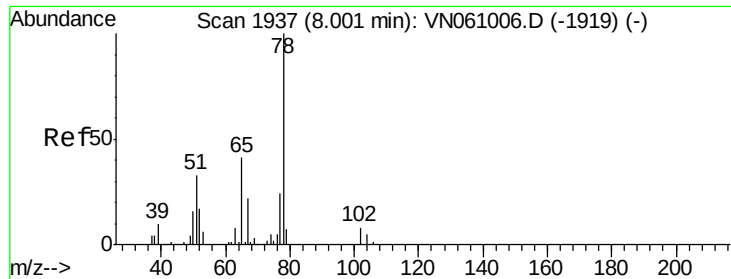
Tot Ion: 43 Resp: 474  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.6 29.4#



#31  
Cyclohexane  
Concen: 1.020 ug/l  
RT: 7.64 min Scan# 1824  
Delta R.T. 0.01 min  
Lab File: VN061073.D  
Acq: 18 Apr 2020 00:28

Tgt Ion: 56 Resp: 3522  
Ion Ratio Lower Upper  
56 100  
69 165.9 25.6 38.4#  
84 121.9 63.4 95.2#

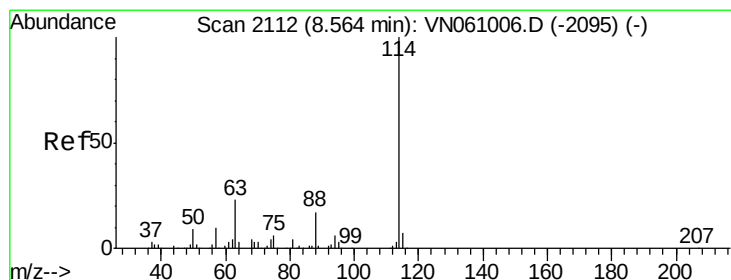
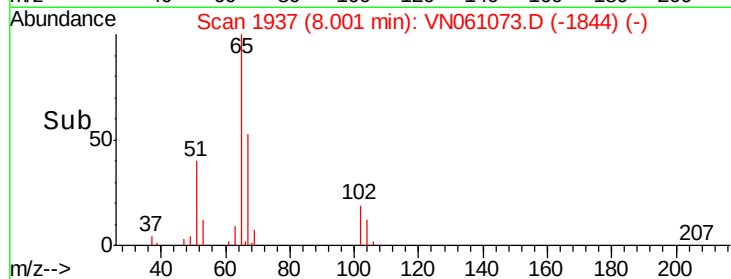
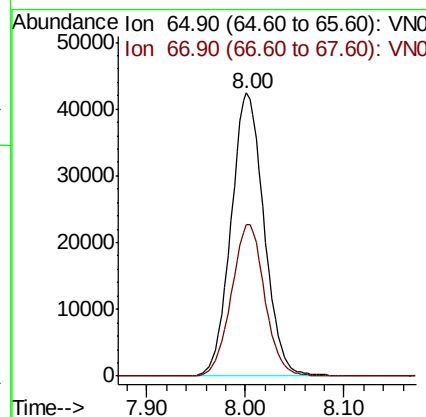
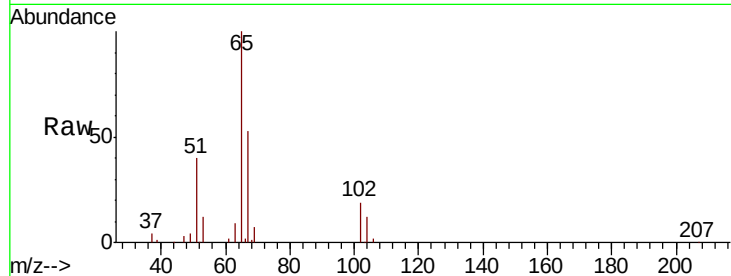




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.348 ug/l  
 RT: 8.00 min Scan# 1937  
 Delta R.T. 0.00 min  
 Lab File: VN061073.D  
 Acq: 18 Apr 2020 00:28

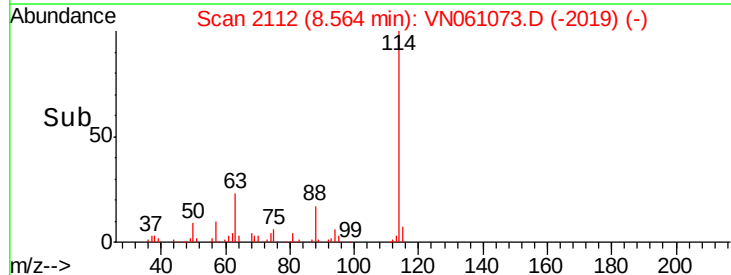
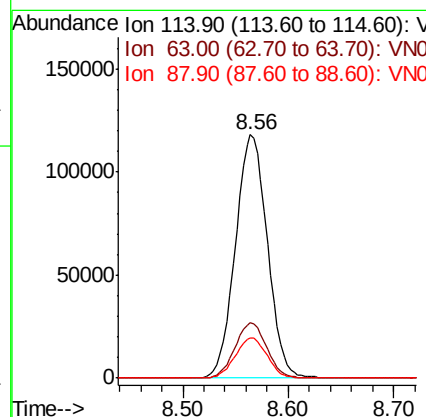
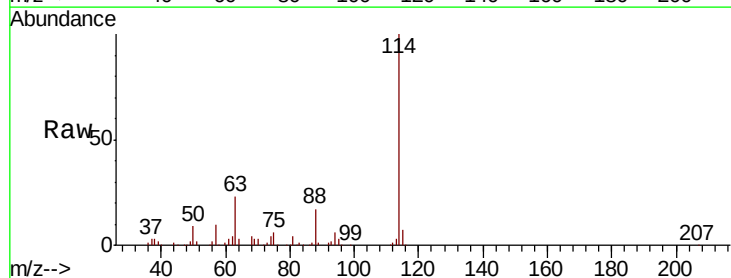
Instrument :  
 MSVOA\_N  
 ClientSampleId :

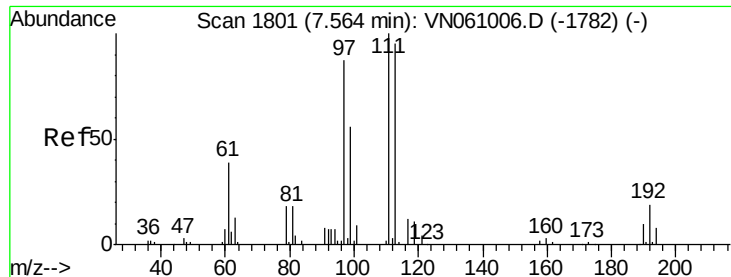
Tot Ion: 65 Resp: 98890  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 107.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.56 min Scan# 2112  
 Delta R.T. 0.00 min  
 Lab File: VN061073.D  
 Acq: 18 Apr 2020 00:28

Tgt Ion: 114 Resp: 248127  
 Ion Ratio Lower Upper  
 114 100  
 63 22.8 0.0 46.2  
 88 16.7 0.0 33.4

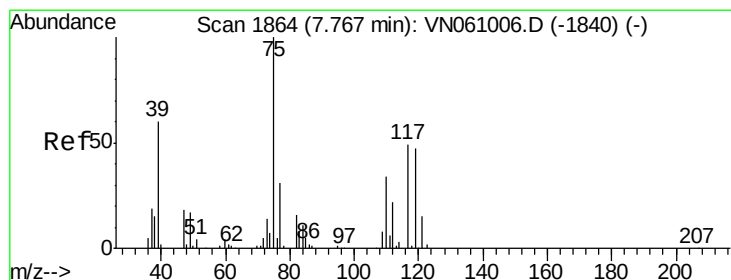
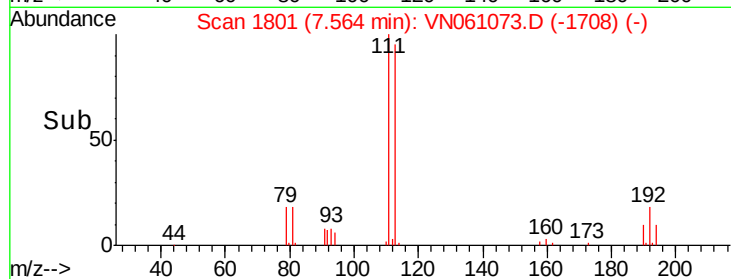
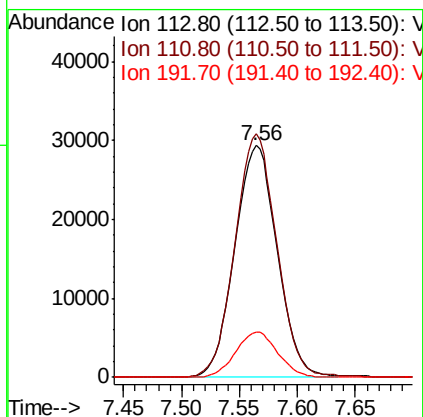
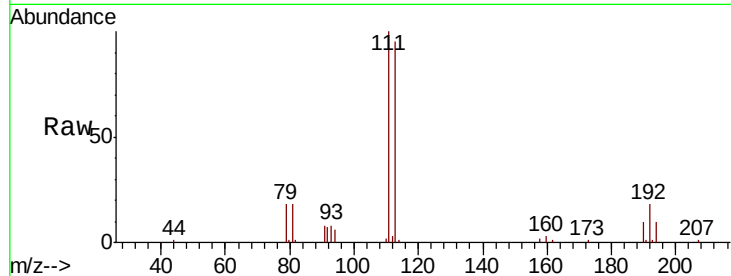




#35  
 Dibromofluoromethane  
 Concen: 51.552 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. 0.00 min  
 Lab File: VN061073.D  
 Acq: 18 Apr 2020 00:28

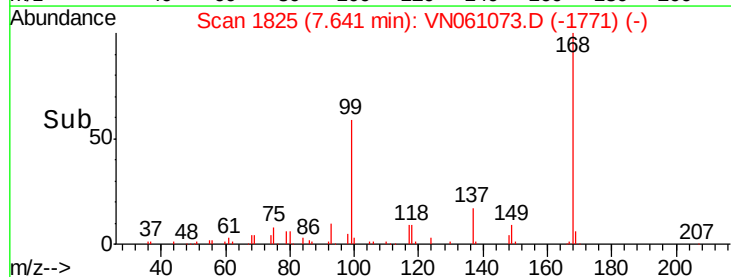
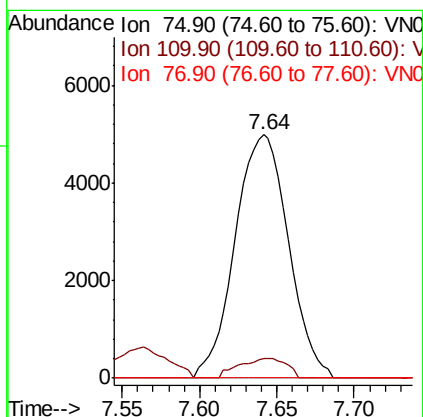
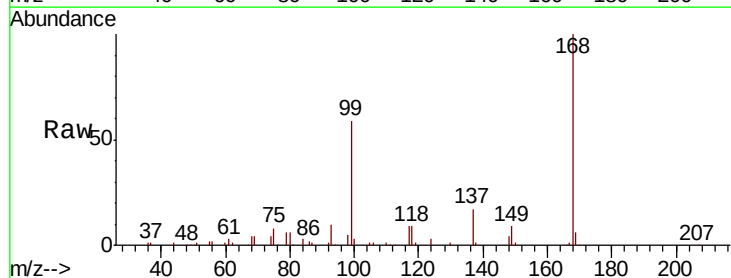
Instrument :  
 MSVOA\_N  
 ClientSampled :

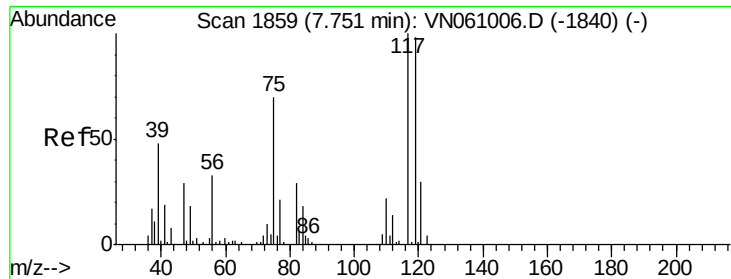
Tot Ion:113 Resp: 74701  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 83.4 125.2  
 192 19.4 15.5 23.3



#36  
 1,1-Dichloropropene  
 Concen: 4.666 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN061073.D  
 Acq: 18 Apr 2020 00:28

Tgt Ion: 75 Resp: 11946  
 Ion Ratio Lower Upper  
 75 100  
 110 7.2 16.8 50.3#  
 77 0.0 24.7 37.1#

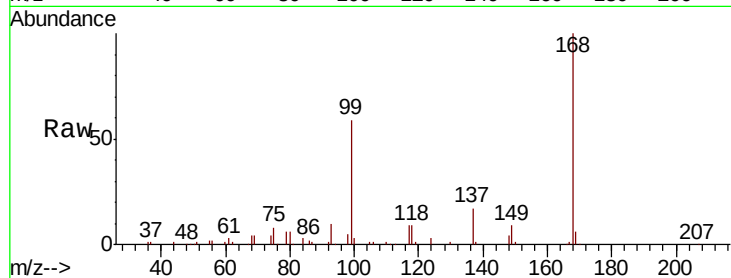




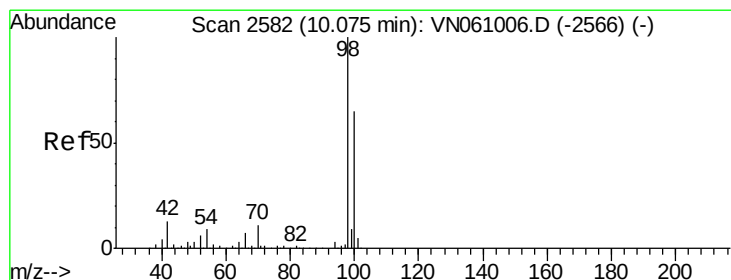
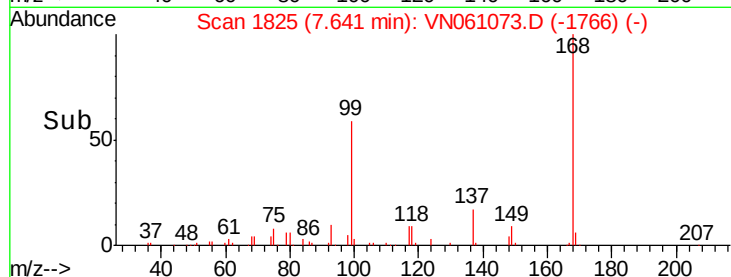
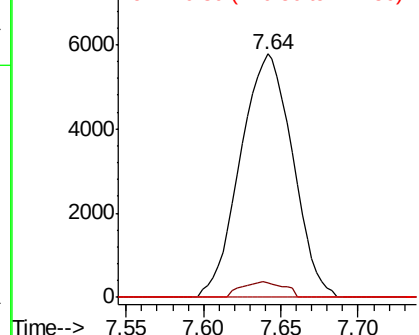
#38  
Carbon Tetrachloride  
Concen: 6.366 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. -0.11 min  
Lab File: VN061073.D  
Acq: 18 Apr 2020 00:28

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 13567  
Ion Ratio Lower Upper  
117 100  
119 6.2 78.1 117.1#  
121 0.0 24.0 36.0#

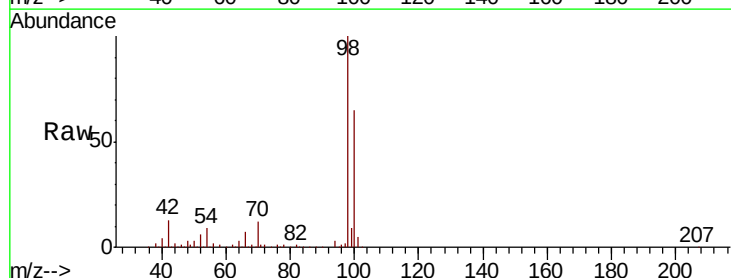


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

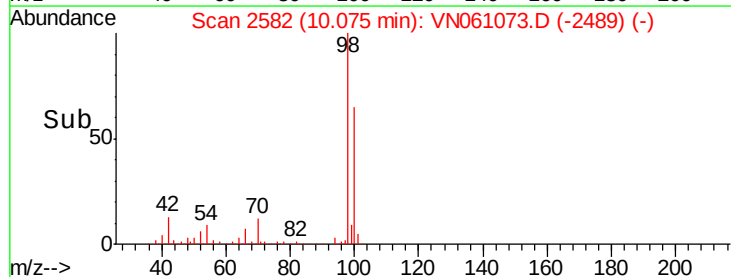
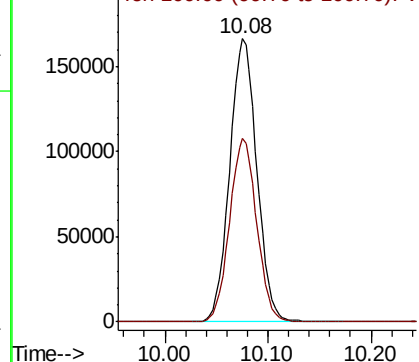


#50  
Toluene-d8  
Concen: 55.644 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. 0.00 min  
Lab File: VN061073.D  
Acq: 18 Apr 2020 00:28

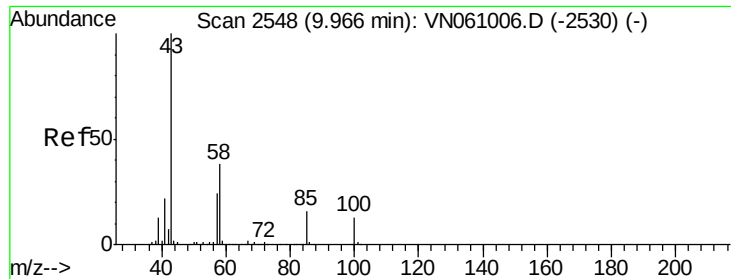
Tgt Ion: 98 Resp: 304684  
Ion Ratio Lower Upper  
98 100  
100 64.8 51.9 77.9



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







#51

4-Methyl-2-Pentanone

Concen: 0.506 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.11 min

Lab File: VN061073.D

Acq: 18 Apr 2020 00:28

Instrument :

MSVOA\_N

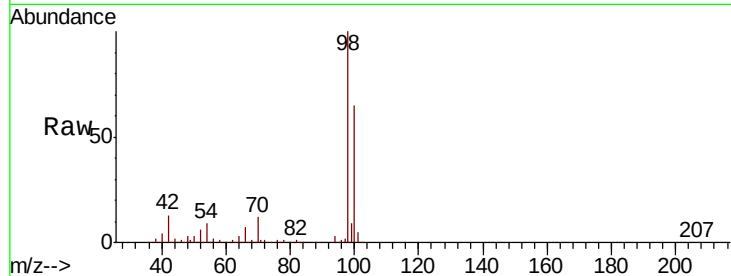
ClientSampleId :

Tot Ion: 43 Resp: 1320

Ion Ratio Lower Upper

43 100

58 187.4 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

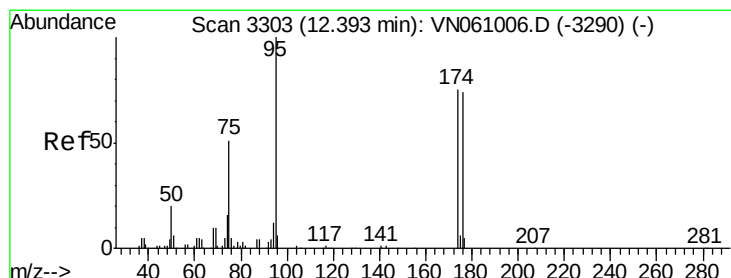
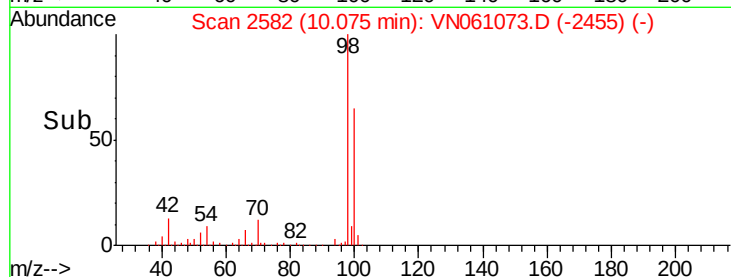
1000

500

0

10.05 10.10

Time-->



#62

4-Bromofluorobenzene

Concen: 51.978 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.00 min

Lab File: VN061073.D

Acq: 18 Apr 2020 00:28

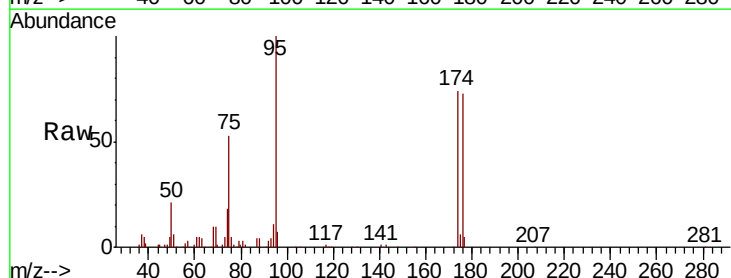
Tgt Ion: 95 Resp: 111547

Ion Ratio Lower Upper

95 100

174 75.4 0.0 151.2

176 74.0 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

80000

60000

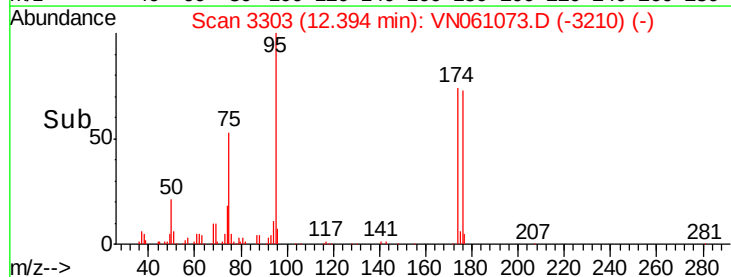
40000

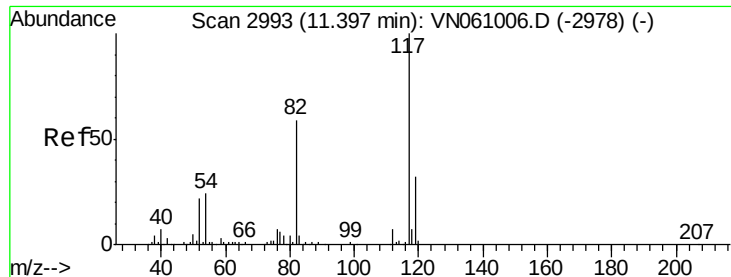
20000

0

12.30 12.35 12.40 12.45

Time-->

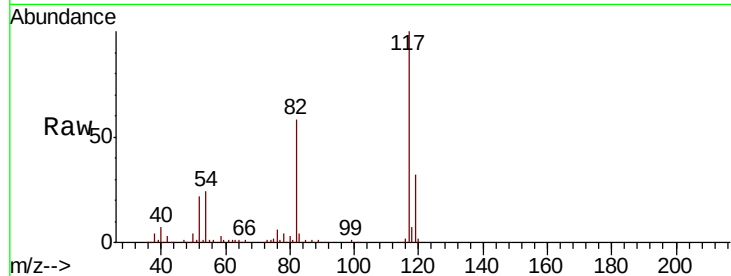




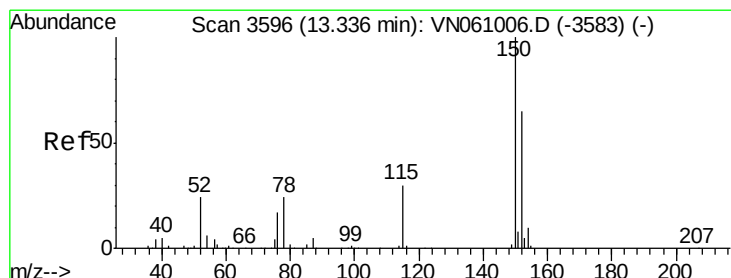
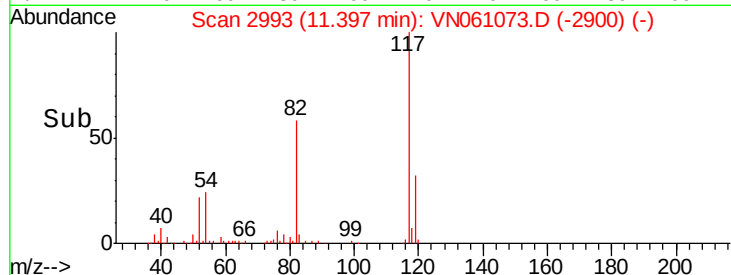
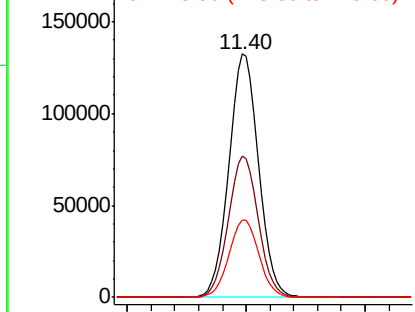
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2993  
Delta R.T. 0.00 min  
Lab File: VN061073.D  
Acq: 18 Apr 2020 00:28

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 229206  
Ion Ratio Lower Upper  
117 100  
82 58.2 47.1 70.7  
119 31.9 25.7 38.5

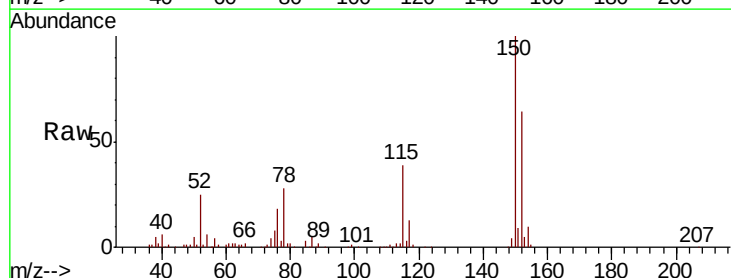


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

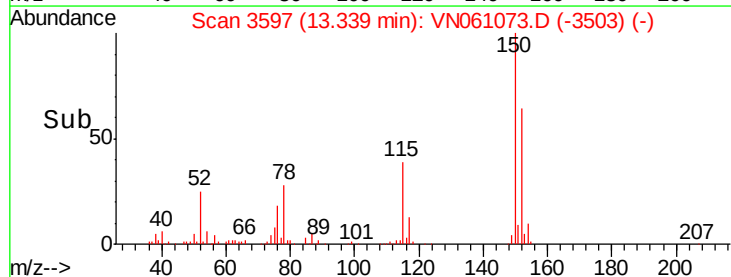
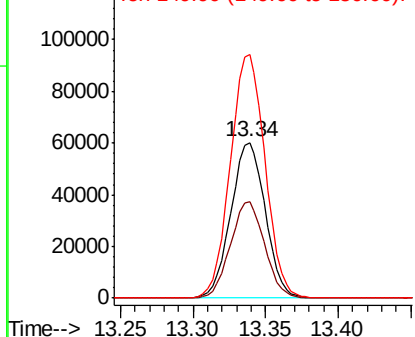


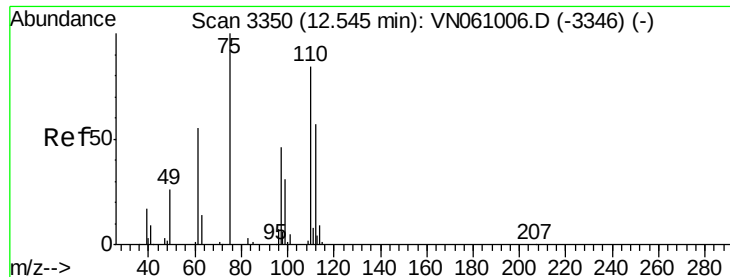
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. 0.00 min  
Lab File: VN061073.D  
Acq: 18 Apr 2020 00:28

Tgt Ion:152 Resp: 99472  
Ion Ratio Lower Upper  
152 100  
115 61.3 30.8 92.4  
150 157.5 0.0 349.0



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: 26.465 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061073.D

Acq: 18 Apr 2020 00:28

Instrument :

MSVOA\_N

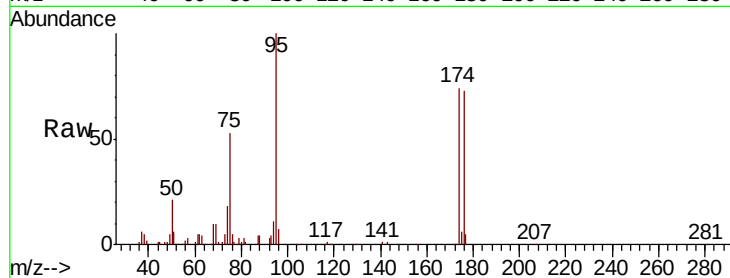
ClientSampleId :

Tot Ion: 75 Resp: 57905

Ion Ratio Lower Upper

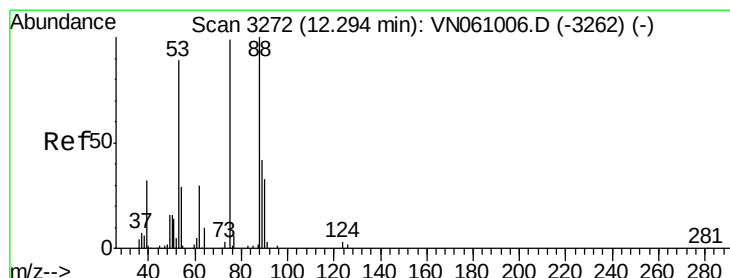
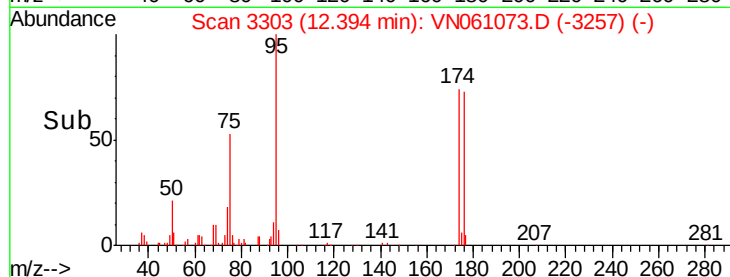
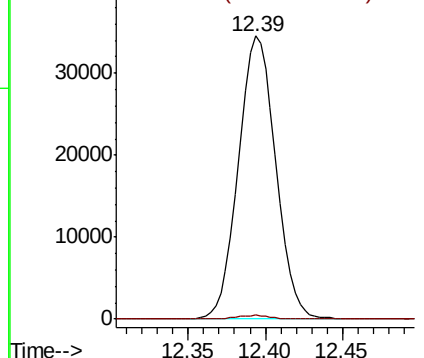
75 100

77 1.1 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: 65.278 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061073.D

Acq: 18 Apr 2020 00:28

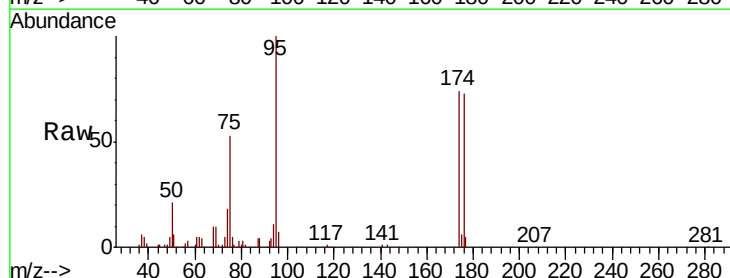
Tgt Ion: 75 Resp: 57905

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

