

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\  
 Data File : VN053453.D  
 Acq On : 17 Jan 2019 23:34  
 Operator : JC/SP  
 Sample : PB116439ZHE#15  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 21 Sample Multiplier: 28

Quant Time: Jan 18 00:15:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 03:10:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 911358   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1434774  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1372325  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 616412   | 50.00 | ug/l  | 0.00     |

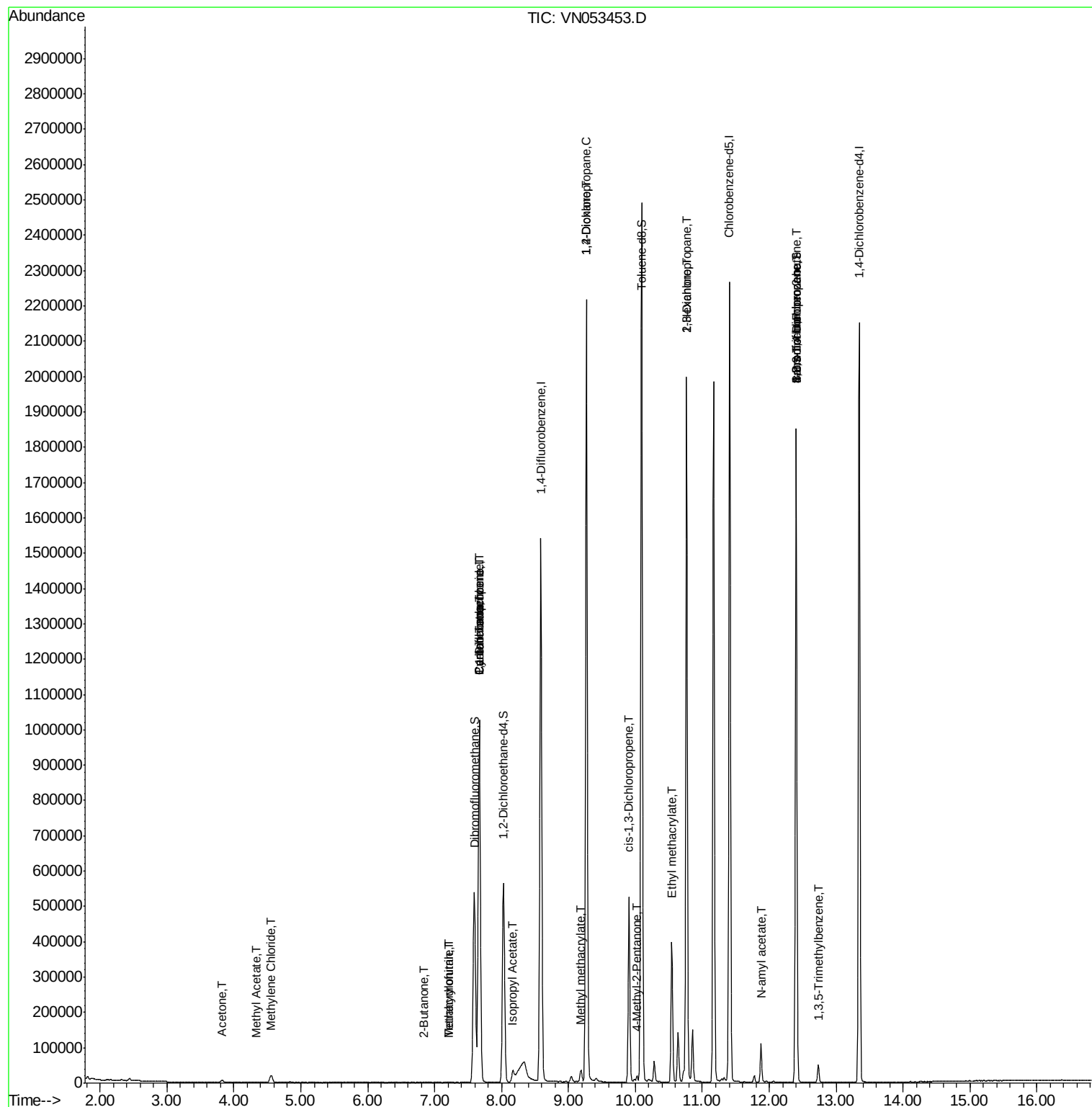
| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 470000   | 52.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.36% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 416073   | 50.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.62% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1791972  | 51.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.50% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 622858   | 51.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.58% |          |

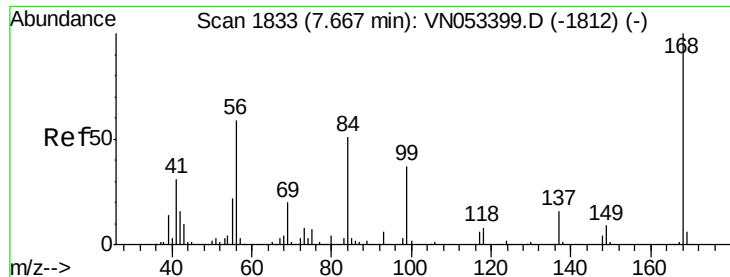
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.82  | 43   | 11932    | 5.646  | ug/l   | 95     |
| 18) Methyl Acetate             | 4.33  | 43   | 1990     | 0.279  | ug/l   | 91     |
| 20) Methylene Chloride         | 4.55  | 84   | 17253    | 1.788  | ug/l # | 85     |
| 25) 2-Butanone                 | 6.83  | 43   | 892      | 0.274  | ug/l # | 47     |
| 29) Tetrahydrofuran            | 7.21  | 42   | 1146     | 0.541  | ug/l # | 73     |
| 31) Cyclohexane                | 7.67  | 56   | 13963    | 0.661  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 58479    | 4.475  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 78390    | 6.337  | ug/l # | 15     |
| 41) Methacrylonitrile          | 7.20  | 41   | 281      | 0.730  | ug/l # | 46     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 51775    | 3.830  | ug/l # | 76     |
| 45) 1,2-Dichloropropane        | 9.27  | 63   | 2903     | 0.276  | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.18  | 41   | 12408    | 1.778  | ug/l # | 12     |
| 49) 1,4-Dioxane                | 9.26  | 88   | 215      | 3.154  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.03 | 43   | 14431    | 1.956  | ug/l # | 34     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 99392    | 6.583  | ug/l # | 61     |
| 56) Ethyl methacrylate         | 10.55 | 69   | 1530     | 2.179  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 21697    | 1.476  | ug/l # | 43     |
| 59) 2-Hexanone                 | 10.76 | 43   | 279012   | 53.862 | ug/l # | 50     |
| 71) Bromoform                  | 12.40 | 173  | 4410     | 0.634  | ug/l # | 1      |
| 74) N-amyl acetate             | 11.88 | 43   | 32220    | 2.678  | ug/l # | 52     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 295357   | 36.360 | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 25759    | 0.701  | ug/l   | 99     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 295357   | 89.889 | ug/l # | 15     |

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

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QLast Update : Wed Jan 16 03:10:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053453.D

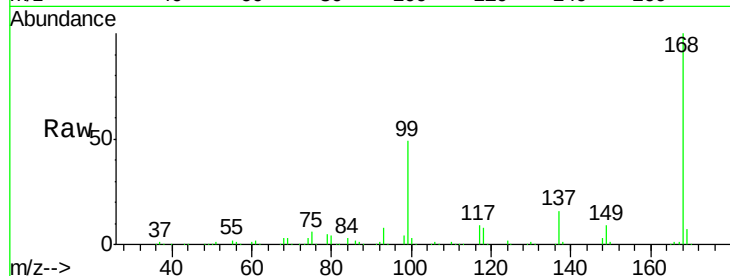
Acq: 17 Jan 2019 23:34

Tot Ion:168 Resp: 911358

Ion Ratio Lower Upper

168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

400000

300000

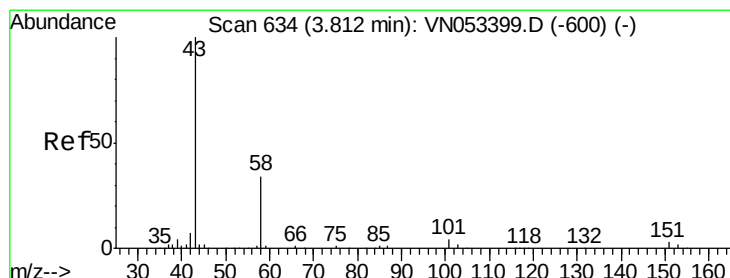
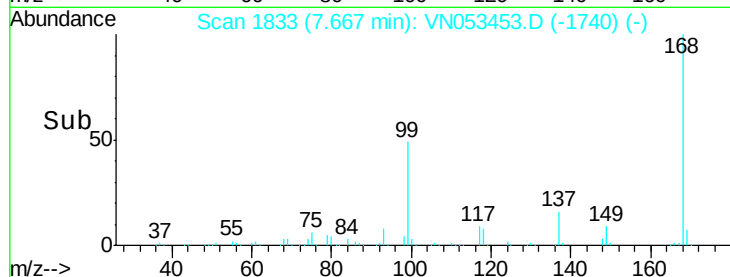
200000

100000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 5.646 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053453.D

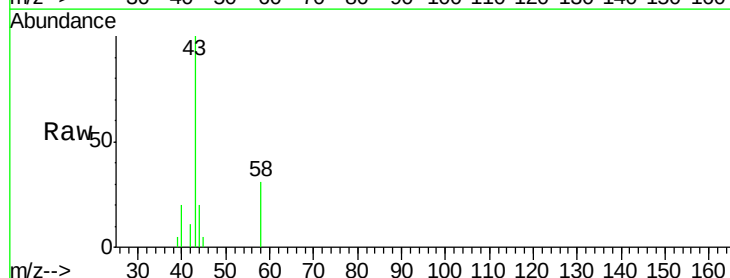
Acq: 17 Jan 2019 23:34

Tgt Ion: 43 Resp: 11932

Ion Ratio Lower Upper

43 100

58 30.9 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

4000

3000

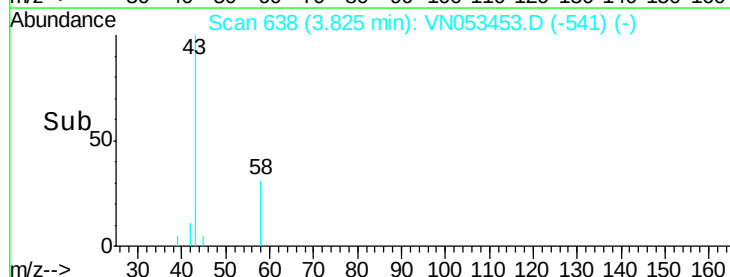
2000

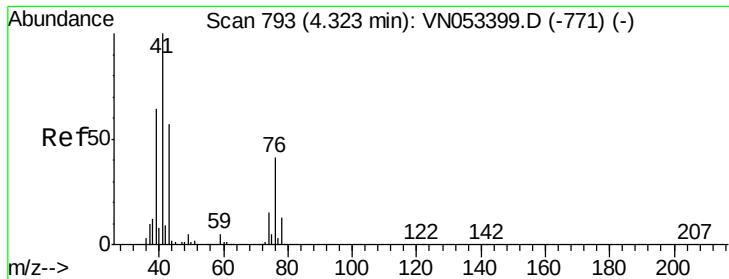
1000

0

3.75 3.80 3.85 3.90

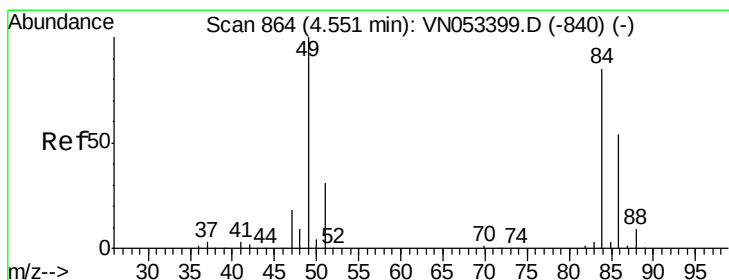
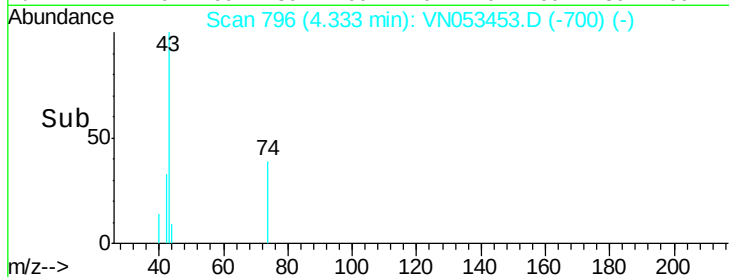
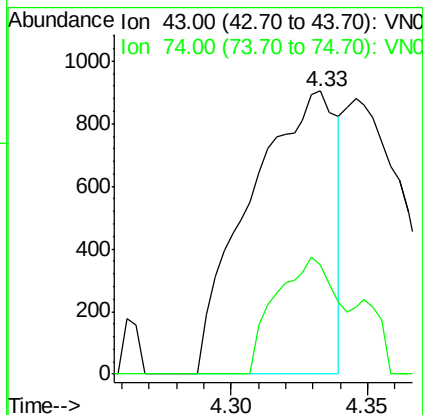
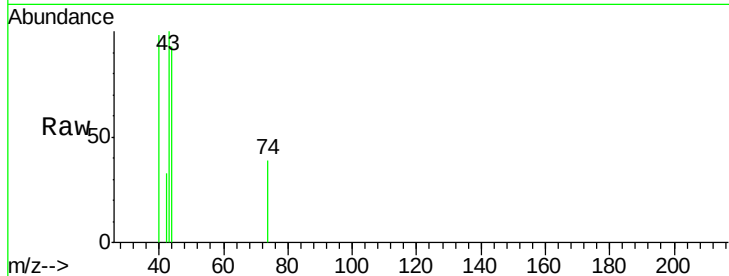
Time-->





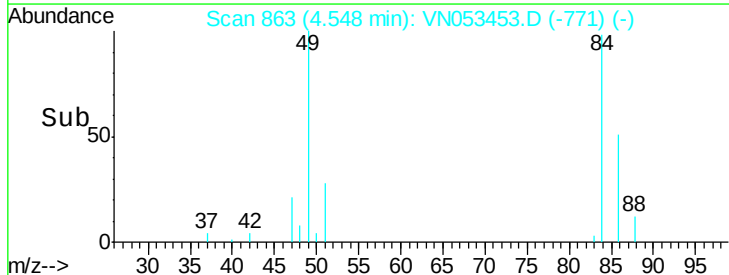
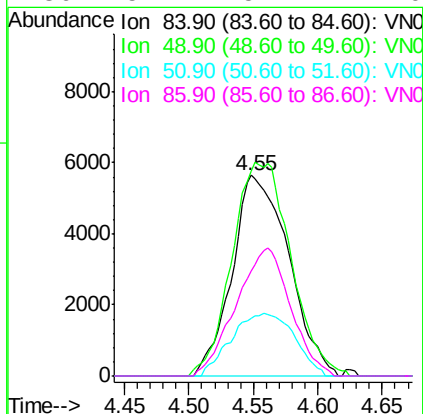
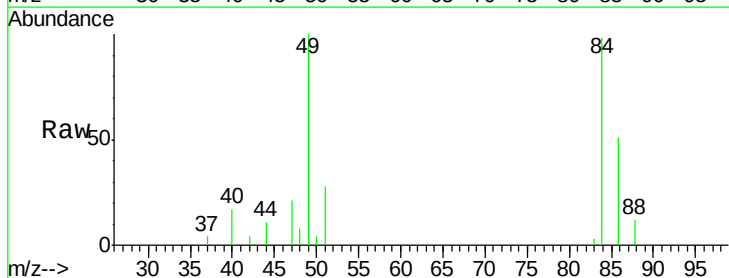
#18  
Methyl Acetate  
Concen: 0.279 ug/l  
RT: 4.33 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

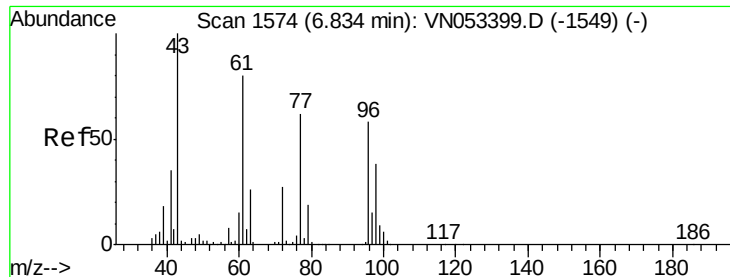
Tot Ion: 43 Resp: 1990  
Ion Ratio Lower Upper  
43 100  
74 29.0 19.4 29.2



#20  
Methylene Chloride  
Concen: 1.788 ug/l  
RT: 4.55 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

Tgt Ion: 84 Resp: 17253  
Ion Ratio Lower Upper  
84 100  
49 102.1 94.3 141.5  
51 28.5 29.4 44.2#  
86 52.1 51.4 77.0





#25

2-Butanone

Concen: 0.274 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053453.D

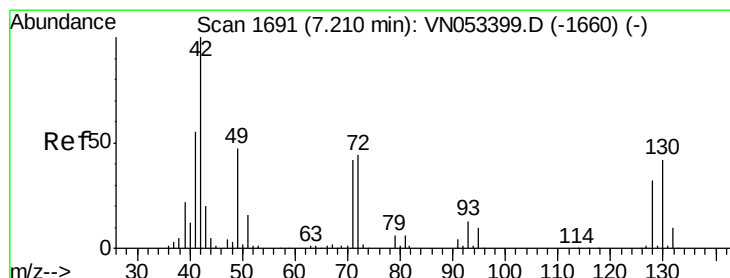
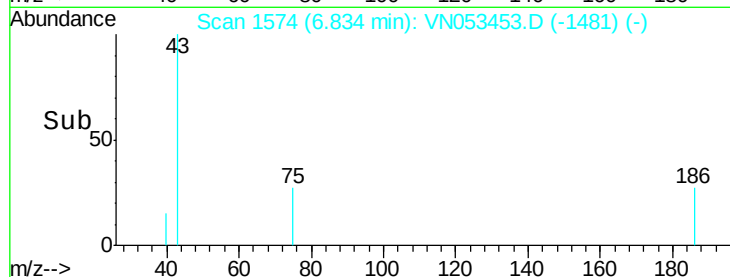
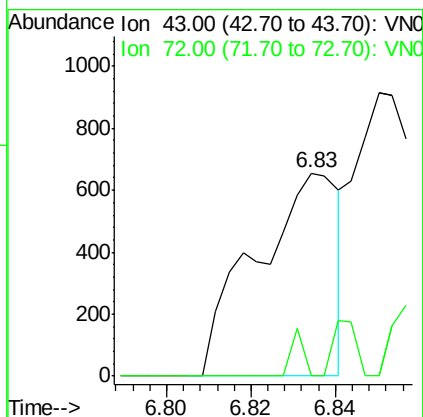
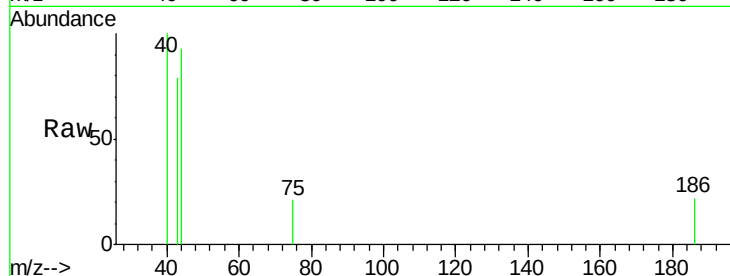
Acq: 17 Jan 2019 23:34

Tot Ion: 43 Resp: 892

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.541 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

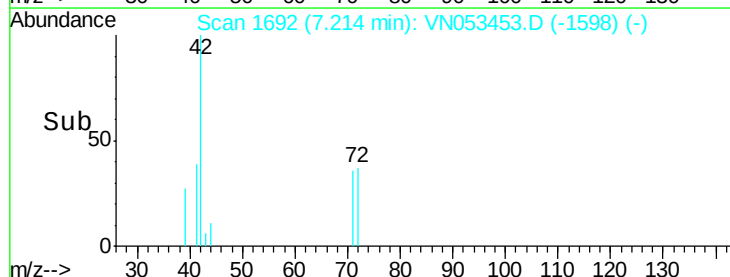
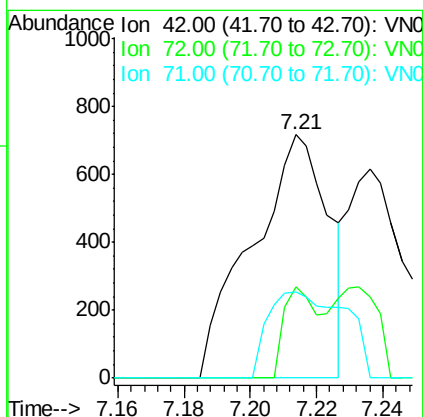
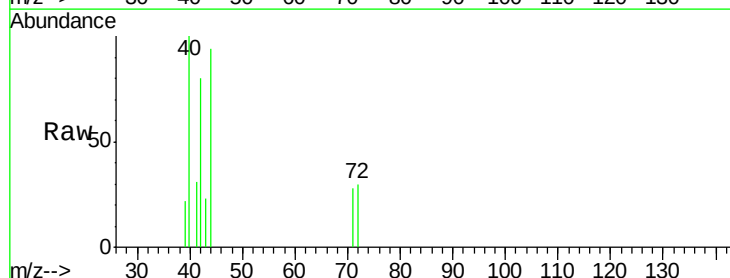
Tgt Ion: 42 Resp: 1146

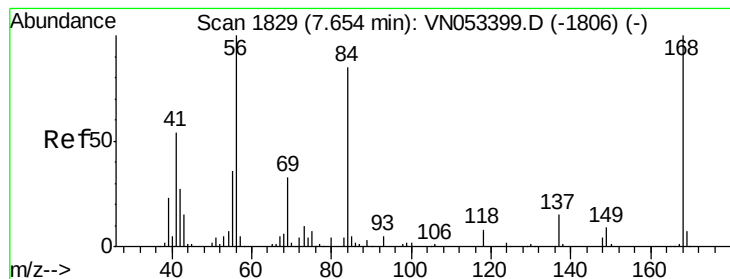
Ion Ratio Lower Upper

42 100

72 15.2 35.2 52.8#

71 35.8 33.0 49.4





#31

Cyclohexane

Concen: 0.661 ug/l

RT: 7.67 min Scan# 1833

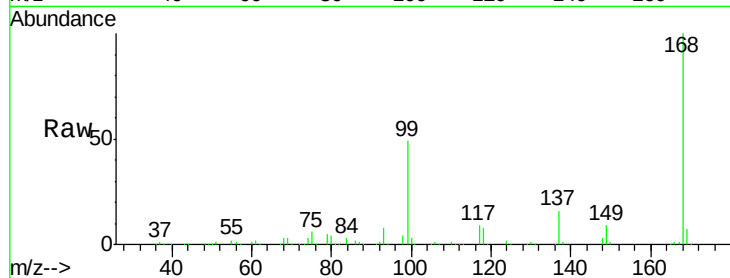
Delta R.T. 0.01 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

Tot Ion: 56 Resp: 13963

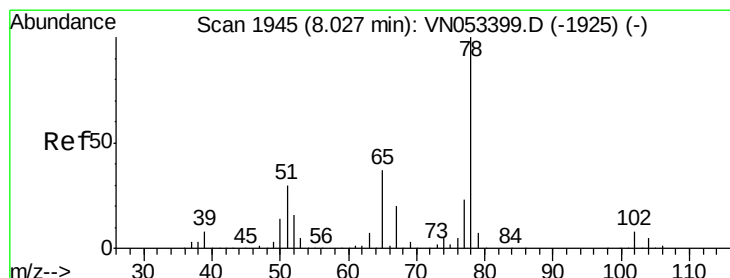
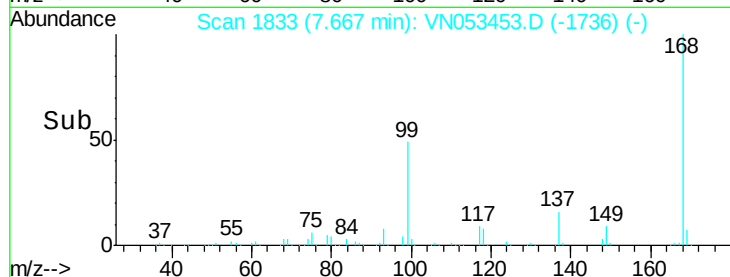
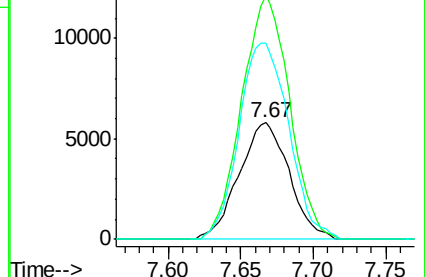
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 209.3 | 26.4  | 39.6#  |
| 84  | 168.7 | 67.9  | 101.9# |



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: N.D. ug/l

RT: 8.03 min Scan# 1945

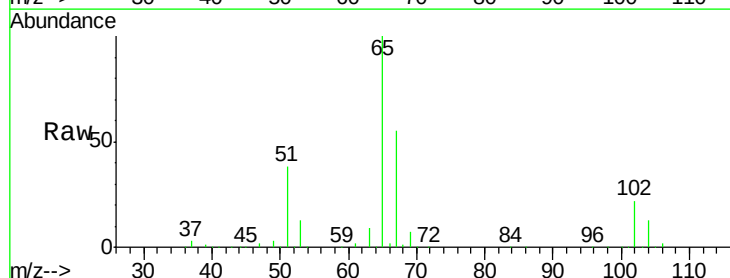
Delta R.T. 0.00 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

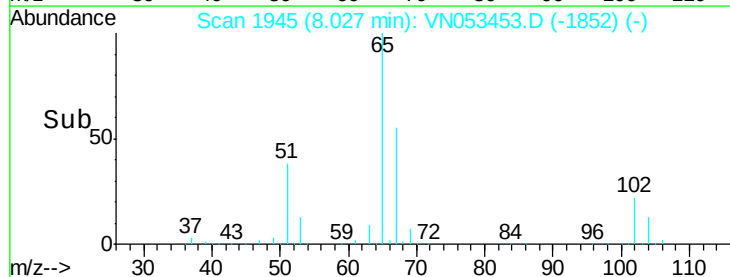
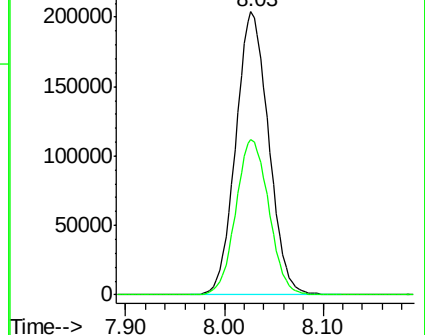
Tgt Ion: 65 Resp: 470000

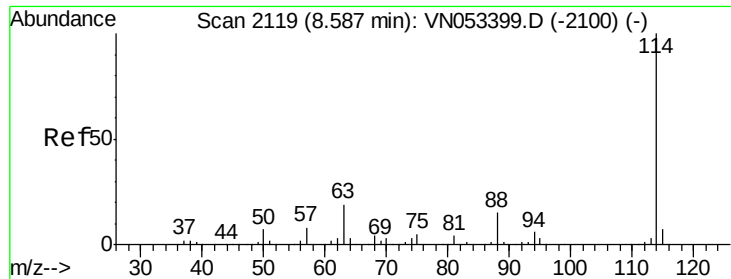
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 55.2  | 0.0   | 111.2 |



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: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

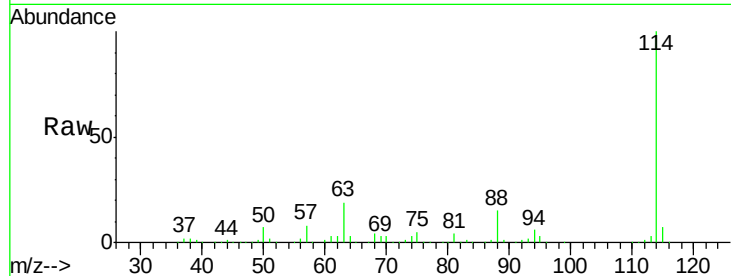
Tot Ion:114 Resp: 1434774

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.6

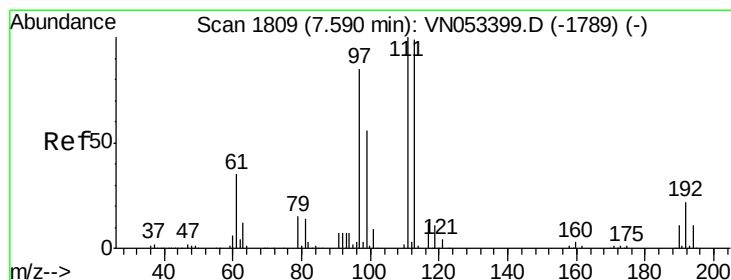
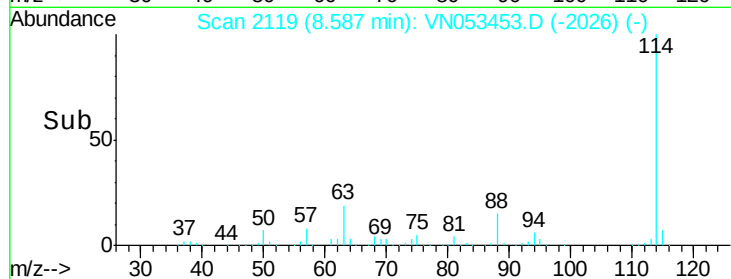
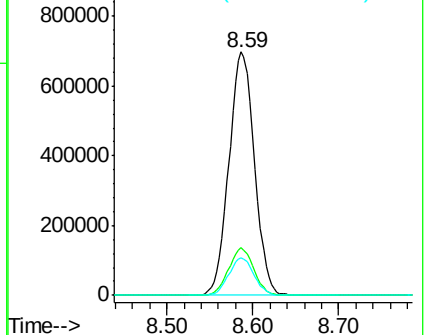
88 15.4 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

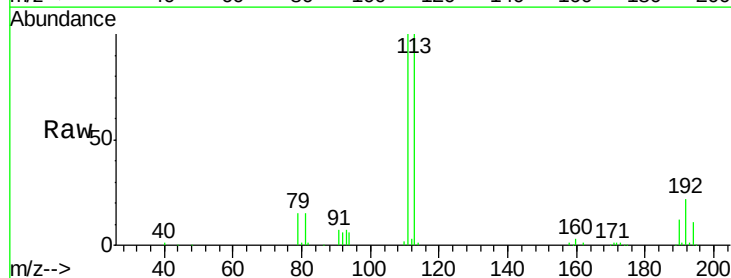
Tgt Ion:113 Resp: 416073

Ion Ratio Lower Upper

113 100

111 101.5 81.1 121.7

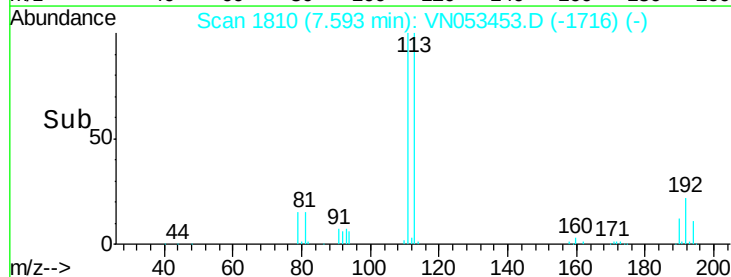
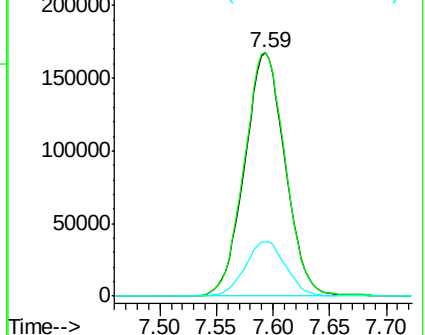
192 22.6 18.2 27.2

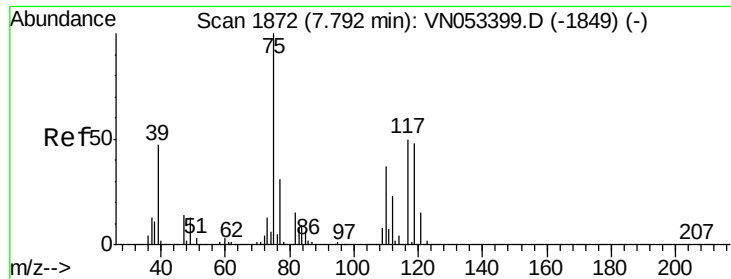


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.475 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

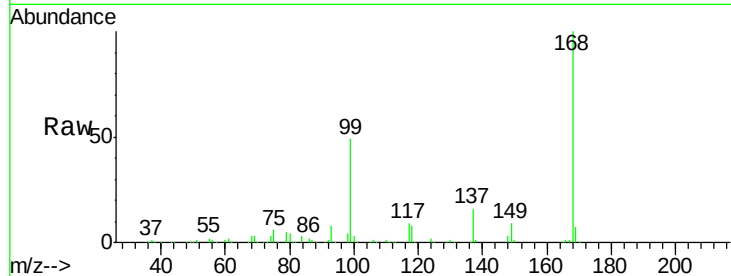
Tot Ion: 75 Resp: 58479

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.3#

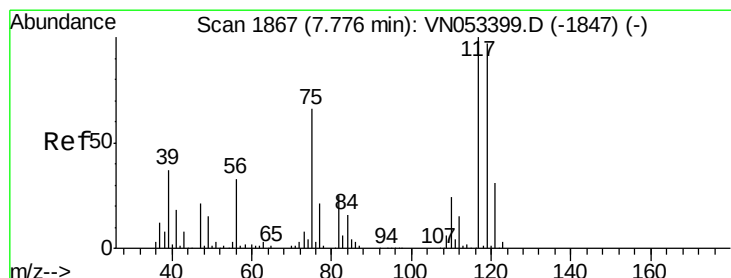
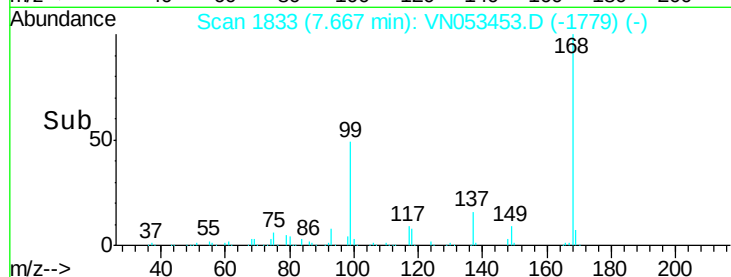
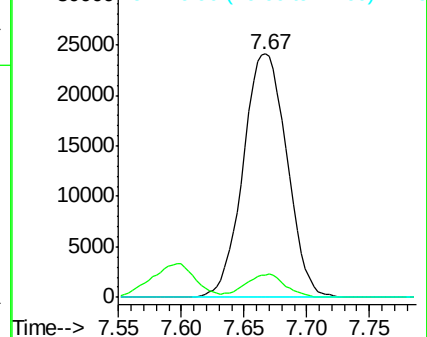
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.337 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

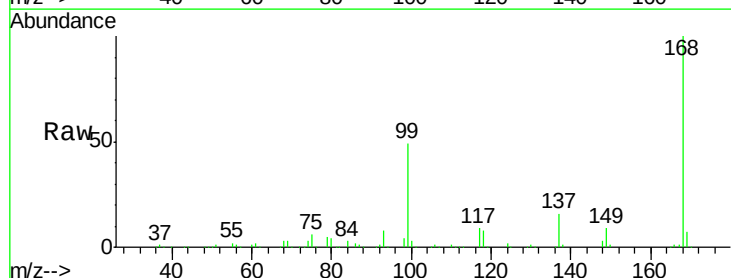
Tgt Ion: 117 Resp: 78390

Ion Ratio Lower Upper

117 100

119 4.8 77.2 115.8#

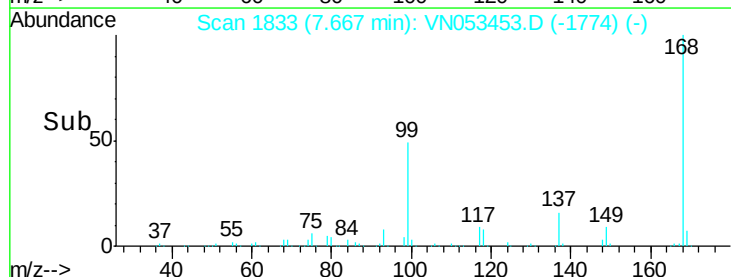
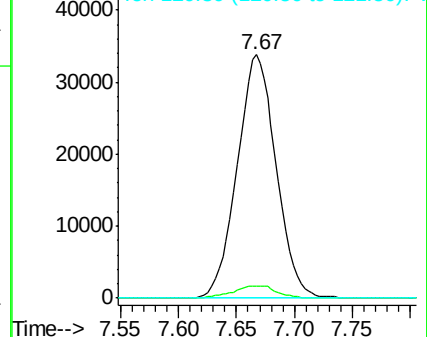
121 0.0 24.6 37.0#



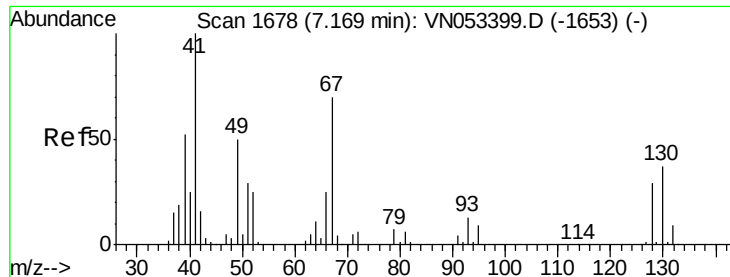
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

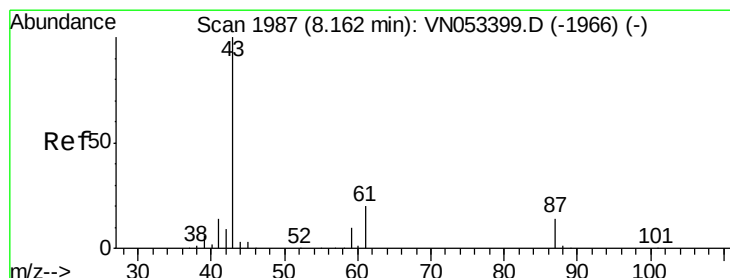
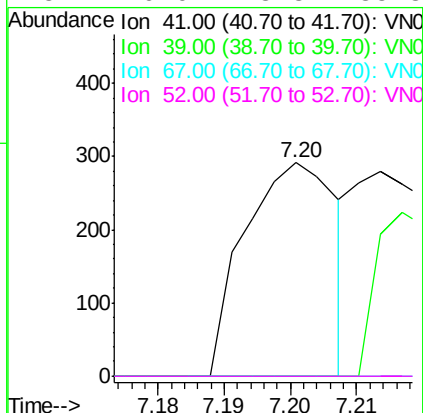
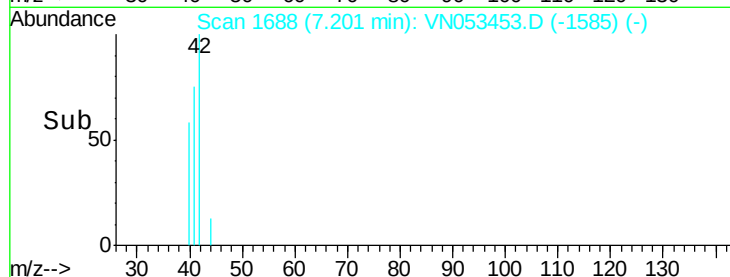
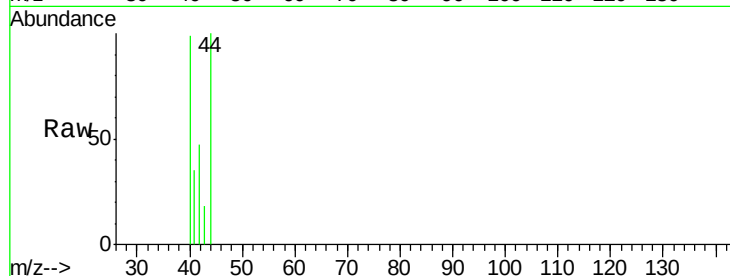






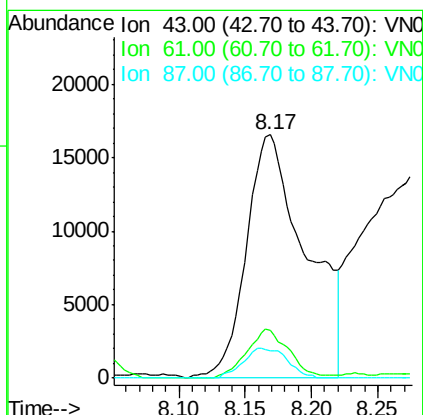
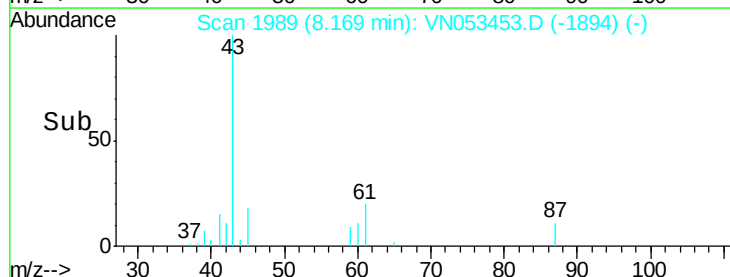
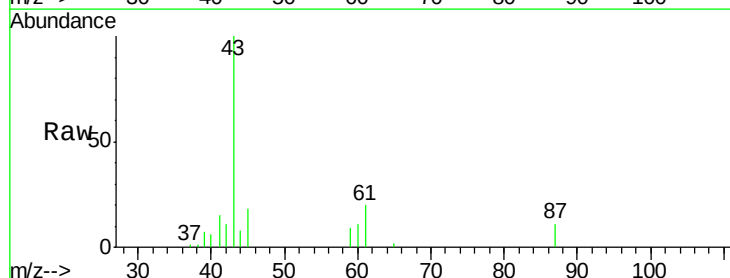
#41  
Methacrylonitrile  
Concen: 0.730 ug/l  
RT: 7.20 min Scan# 1688  
Delta R.T. 0.03 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

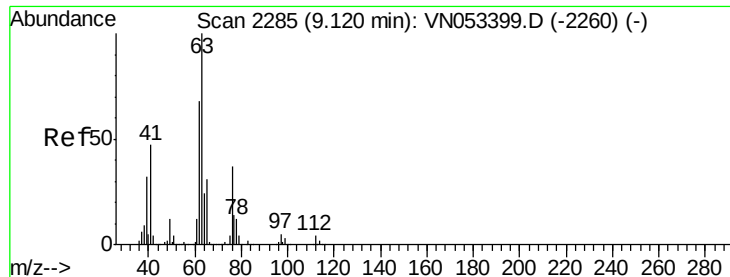
| Tot Ion: | 41    | Resp: | 281   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 54.1  | 46.8  | 70.2  |
| 67       | 0.0   | 63.0  | 94.6# |
| 52       | 0.0   | 23.8  | 35.8# |



#43  
Isopropyl Acetate  
Concen: 3.830 ug/l  
RT: 8.17 min Scan# 1989  
Delta R.T. 0.01 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

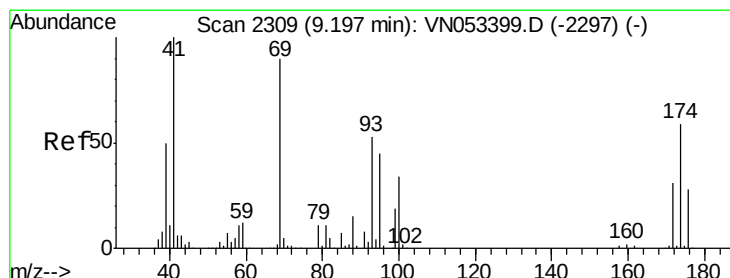
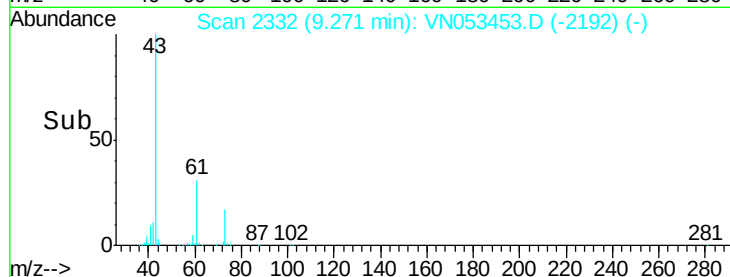
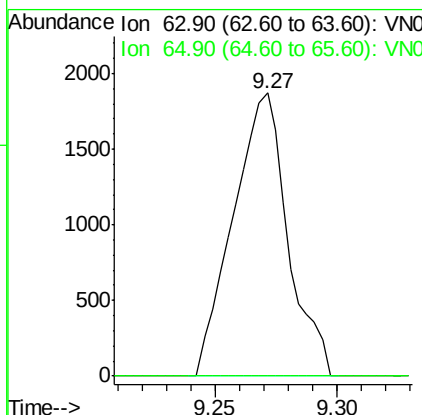
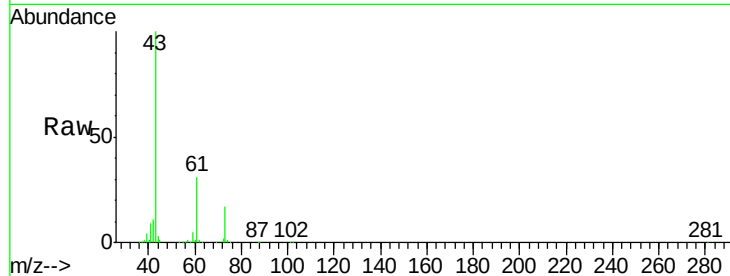
| Tgt Ion: | 43    | Resp: | 51775 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 14.2  | 23.9  | 35.9# |
| 87       | 9.0   | 11.0  | 16.6# |





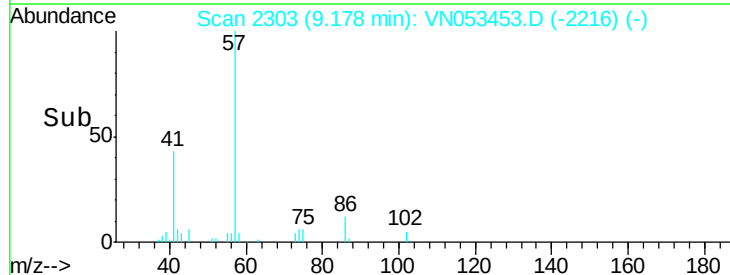
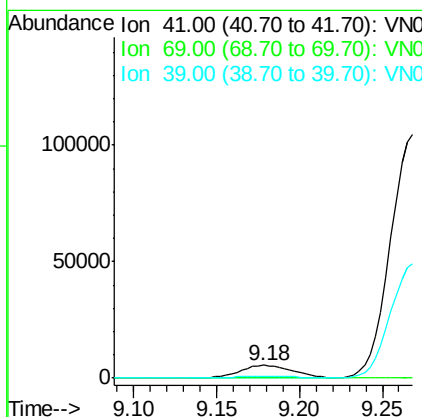
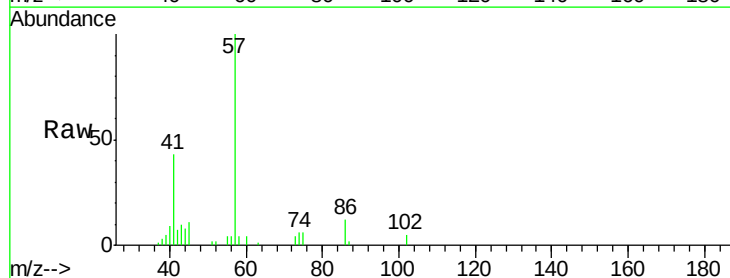
#45  
 1,2-Dichloropropane  
 Concen: 0.276 ug/l  
 RT: 9.27 min Scan# 2332  
 Delta R.T. 0.15 min  
 Lab File: VN053453.D  
 Acq: 17 Jan 2019 23:34

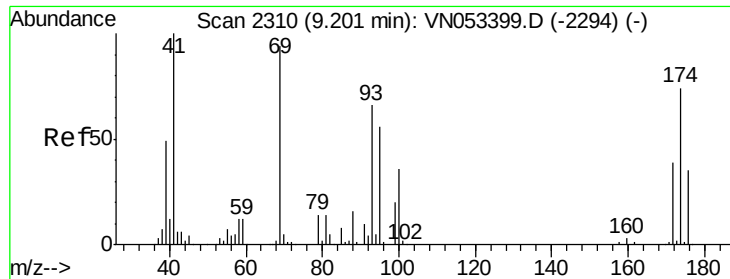
Tot Ion: 63 Resp: 2903  
 Ion Ratio Lower Upper  
 63 100  
 65 0.0 25.0 37.4#



#48  
 Methyl methacrylate  
 Concen: 1.778 ug/l  
 RT: 9.18 min Scan# 2303  
 Delta R.T. -0.02 min  
 Lab File: VN053453.D  
 Acq: 17 Jan 2019 23:34

Tgt Ion: 41 Resp: 12408  
 Ion Ratio Lower Upper  
 41 100  
 69 0.0 73.8 110.6#  
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 3.154 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

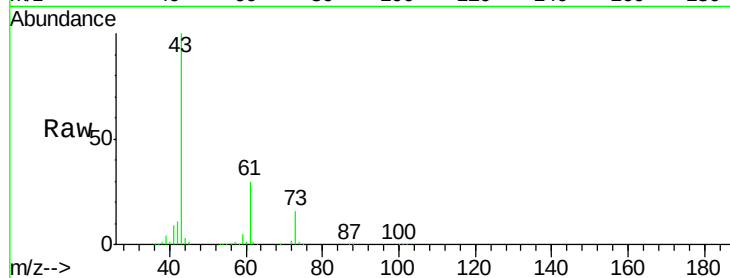
Tot Ion: 88 Resp: 215

Ion Ratio Lower Upper

88 100

43 988182.8 27.8 41.6#

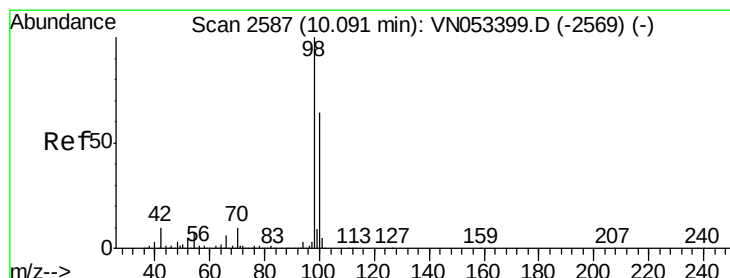
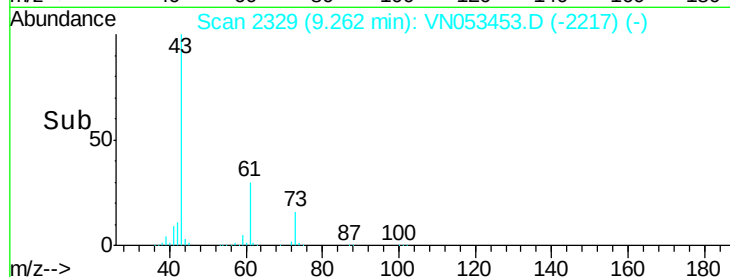
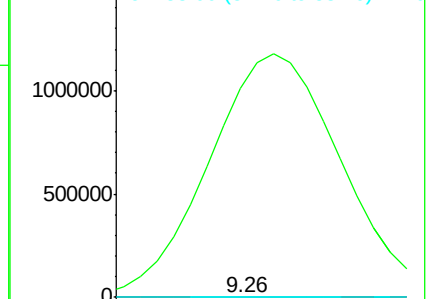
58 4537.7 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 3.154 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053453.D

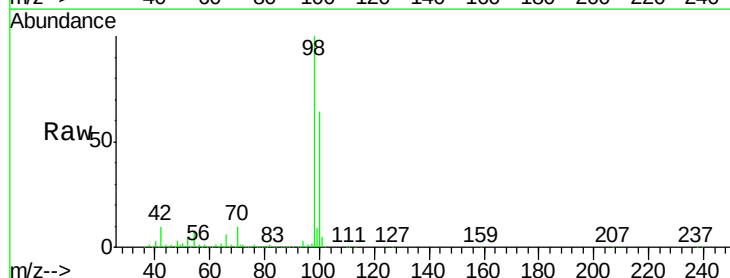
Acq: 17 Jan 2019 23:34

Tgt Ion: 98 Resp: 1791972

Ion Ratio Lower Upper

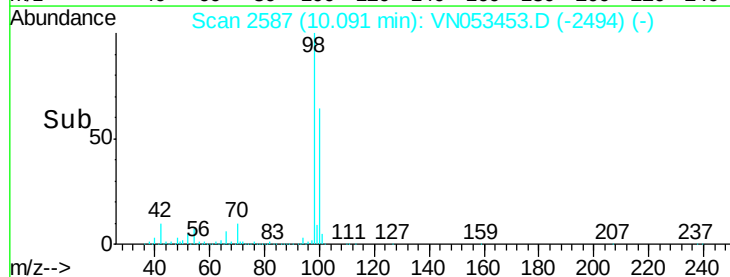
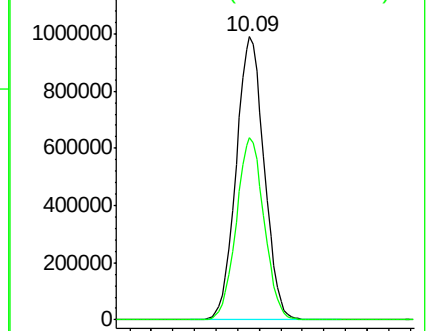
98 100

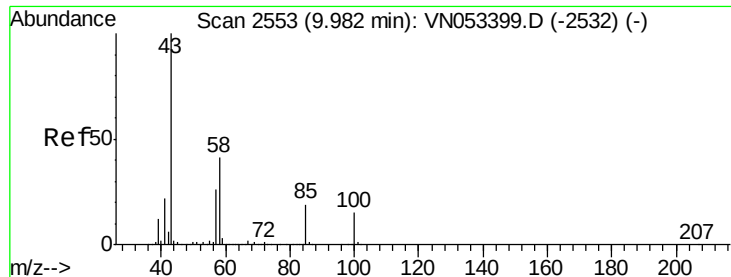
100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.956 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.05 min

Lab File: VN053453.D

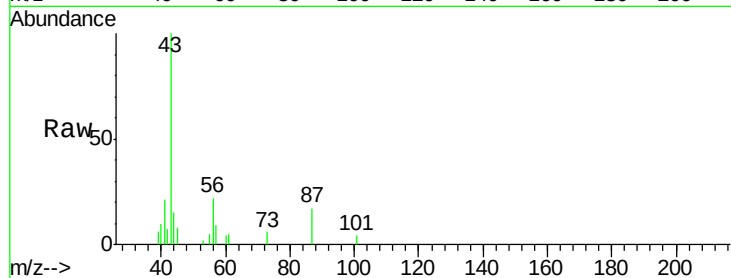
Acq: 17 Jan 2019 23:34

Tot Ion: 43 Resp: 14431

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

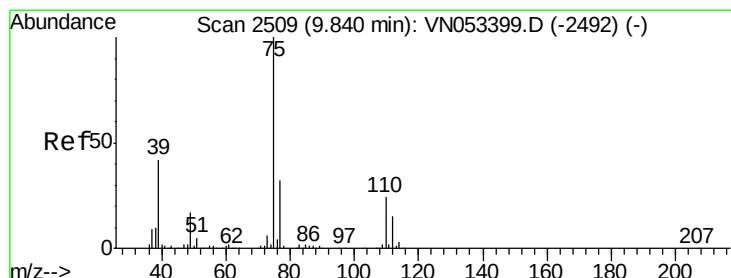
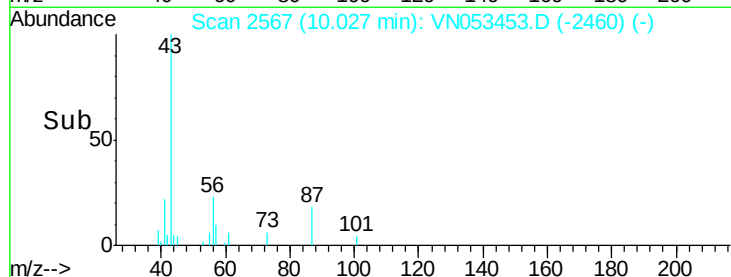
6000

4000

2000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.583 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

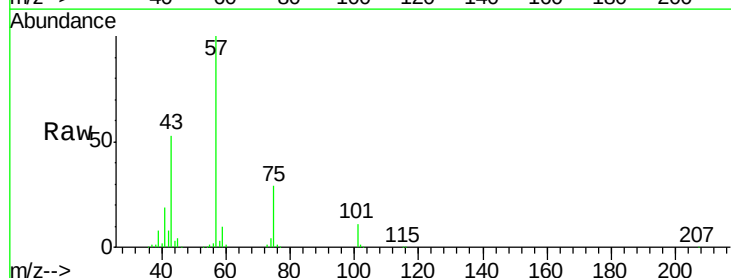
Tgt Ion: 75 Resp: 99392

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

39 26.2 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

80000

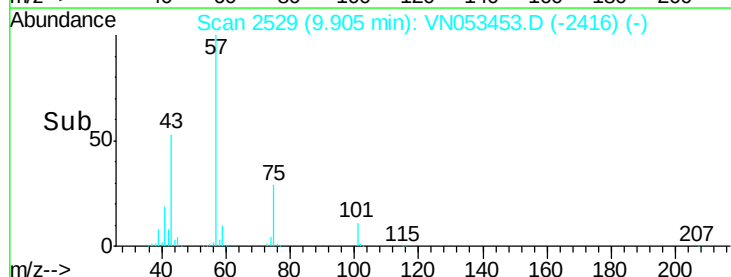
60000

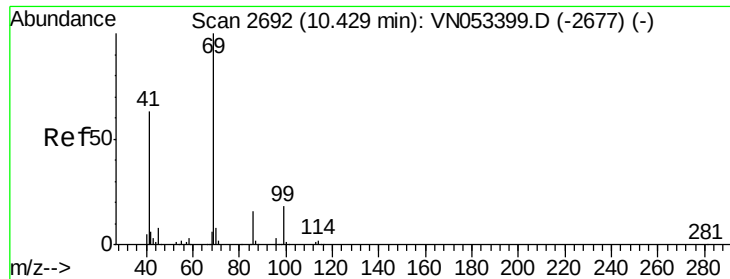
40000

20000

0

Time-->





#56

Ethyl methacrylate

Concen: 2.179 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN053453.D

Acq: 17 Jan 2019 23:34

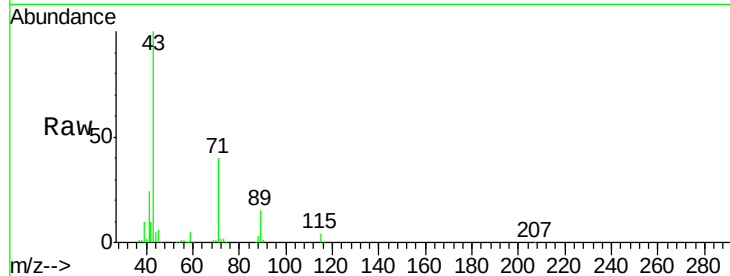
Tot Ion: 69 Resp: 1530

Ion Ratio Lower Upper

69 100

41 4479.2 49.4 74.0#

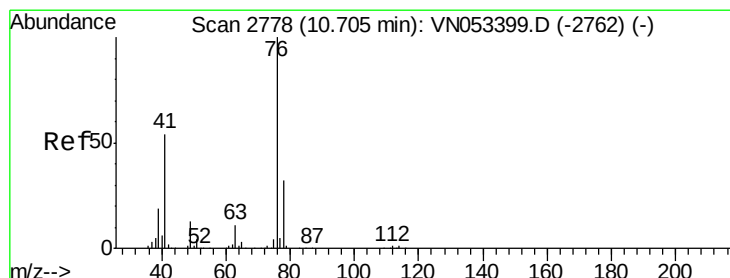
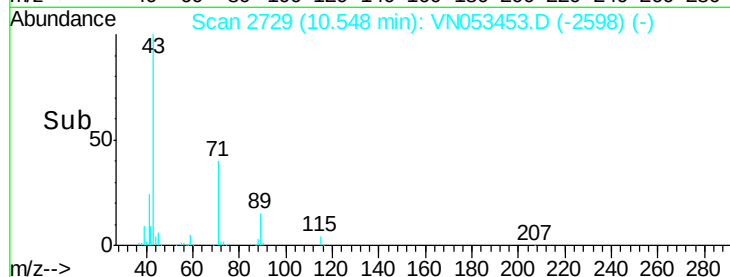
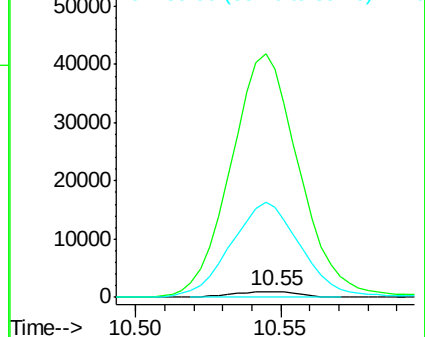
39 1795.8 23.3 34.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.476 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053453.D

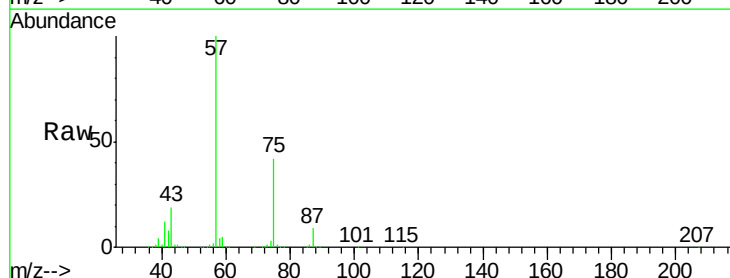
Acq: 17 Jan 2019 23:34

Tgt Ion: 76 Resp: 21697

Ion Ratio Lower Upper

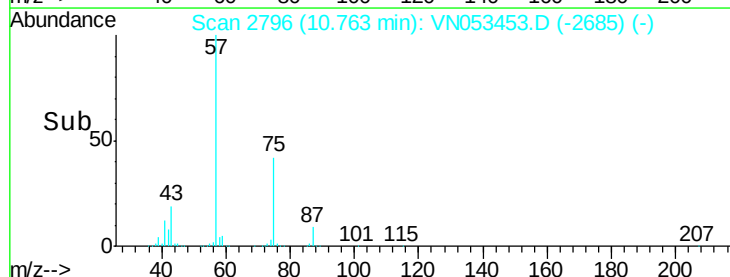
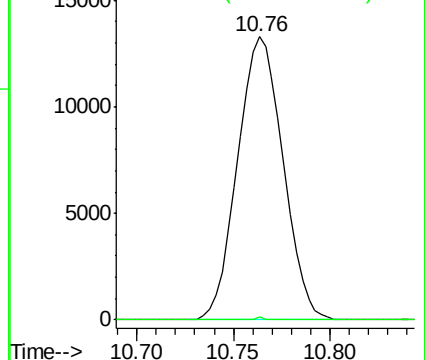
76 100

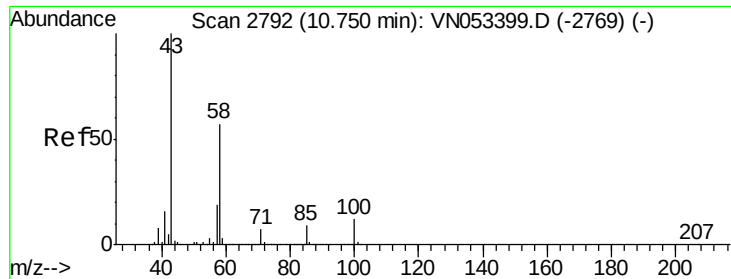
78 0.1 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

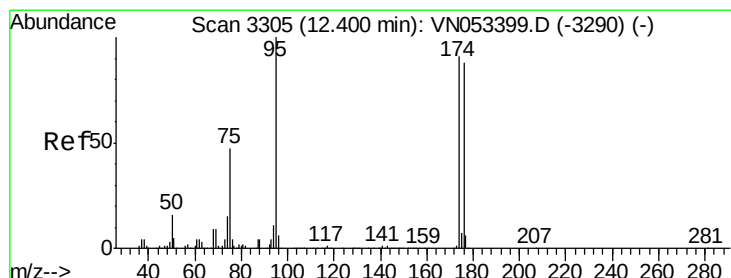
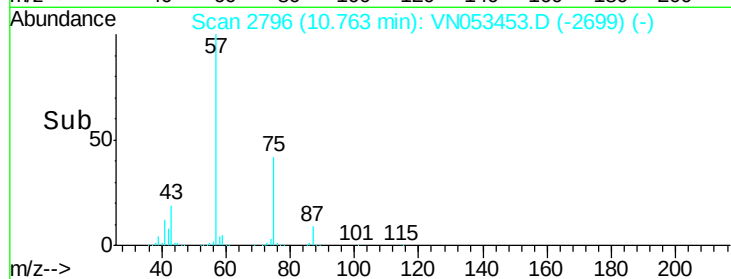
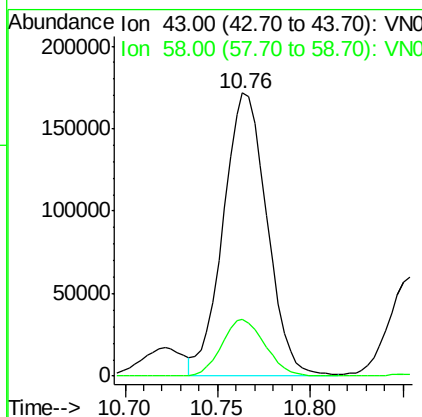
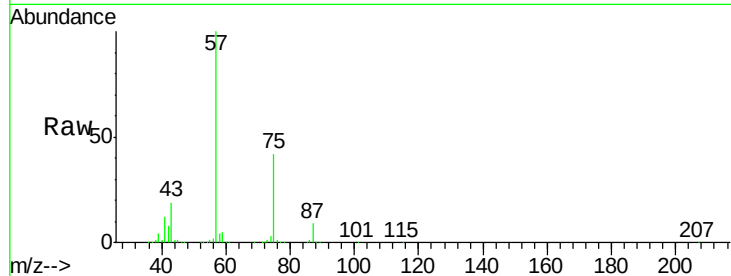
Ion 77.90 (77.60 to 78.60): VN0





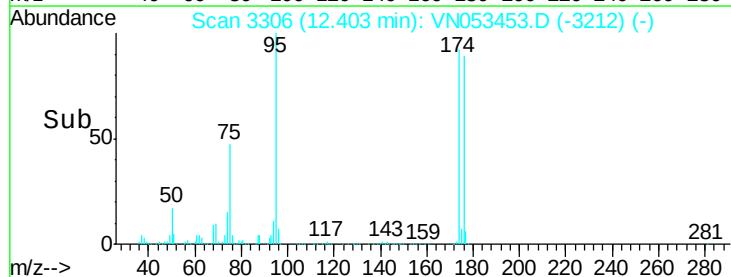
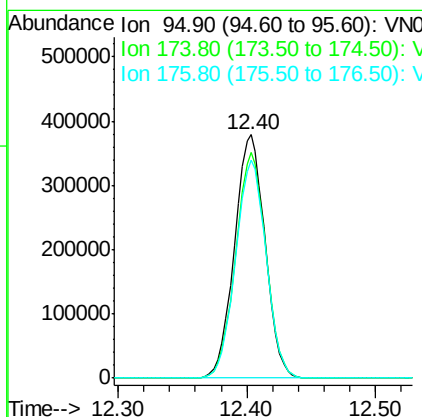
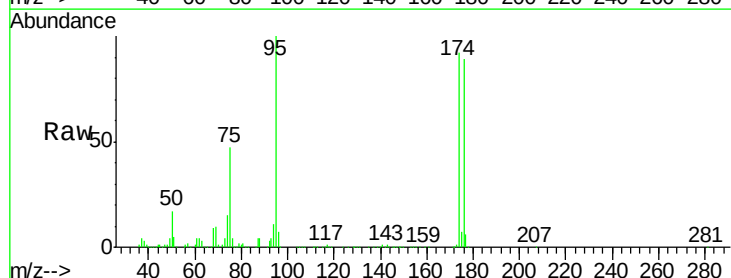
#59  
2-Hexanone  
Concen: 53.862 ug/l  
RT: 10.76 min Scan# 2796  
Delta R.T. 0.01 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

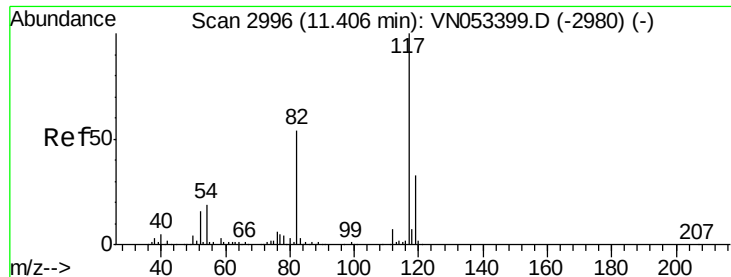
Tot Ion: 43 Resp: 279012  
Ion Ratio Lower Upper  
43 100  
58 20.1 28.6 85.8#



#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

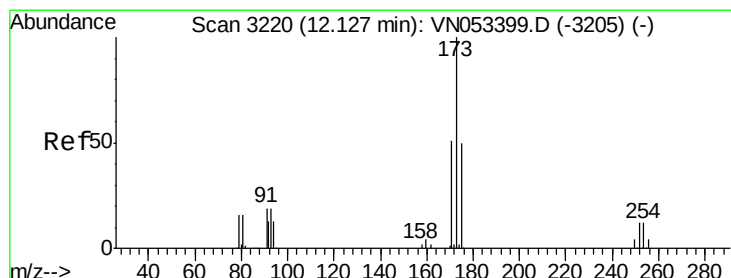
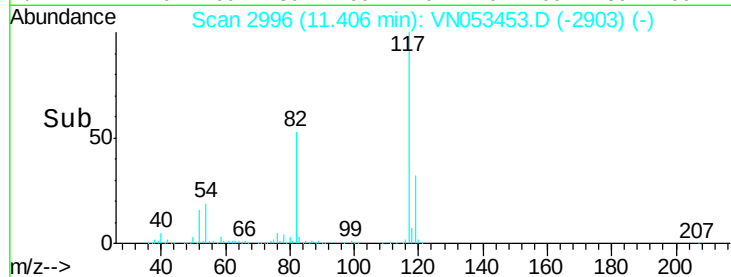
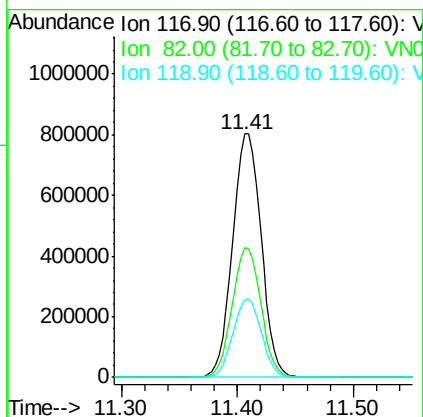
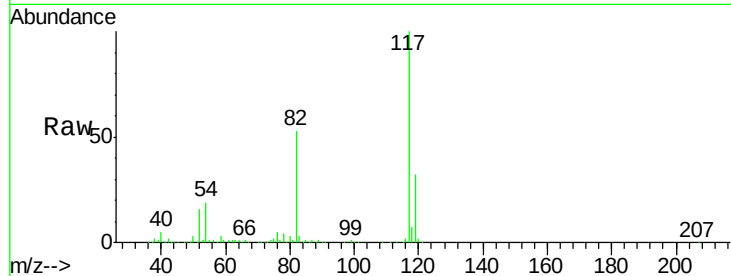
Tgt Ion: 95 Resp: 622858  
Ion Ratio Lower Upper  
95 100  
174 92.0 0.0 183.2  
176 89.5 0.0 177.4





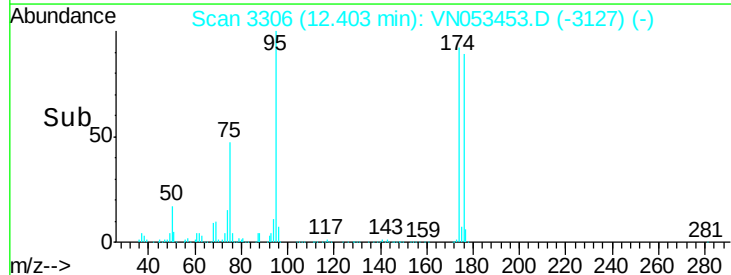
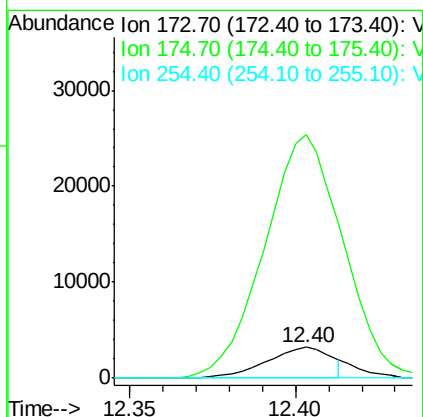
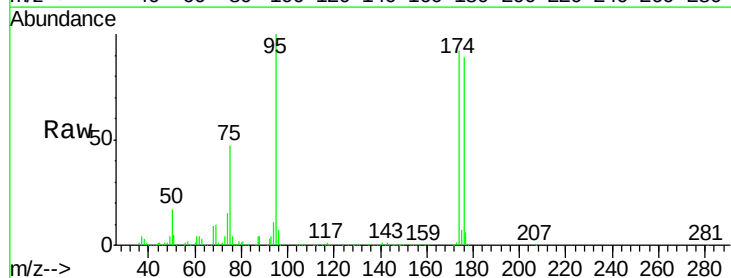
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

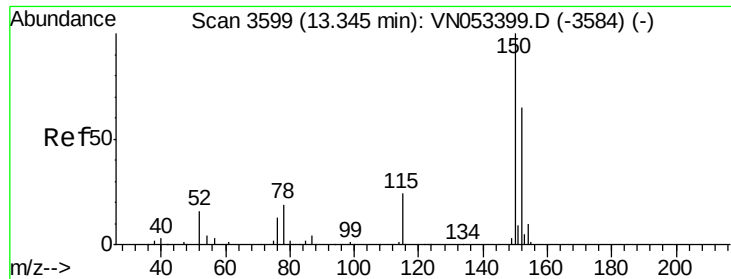
Tot Ion:117 Resp: 1372325  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.9 64.3  
119 32.0 26.0 39.0



#71  
Bromoform  
Concen: 0.634 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.28 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

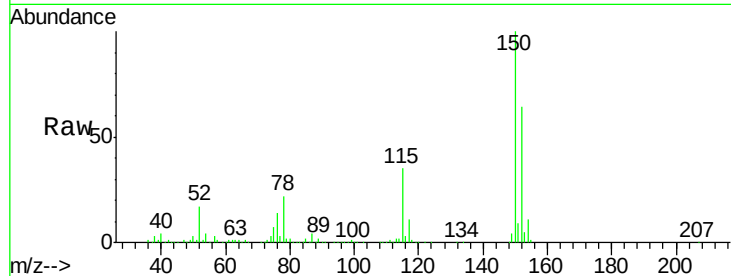
Tgt Ion:173 Resp: 4410  
Ion Ratio Lower Upper  
173 100  
175 811.3 24.6 74.0#  
254 0.0 0.2 0.2#



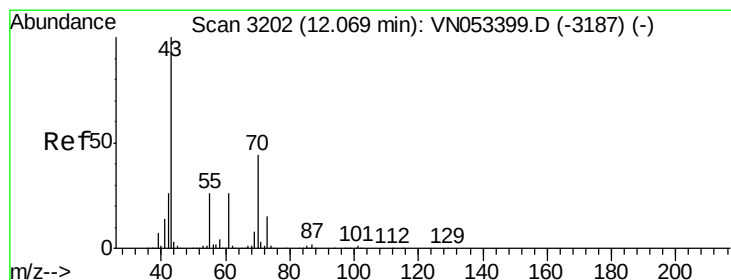
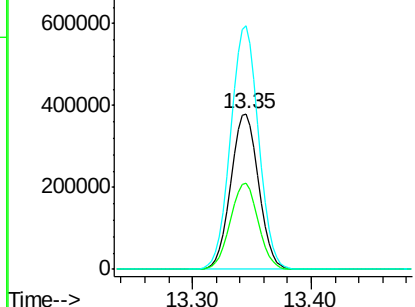
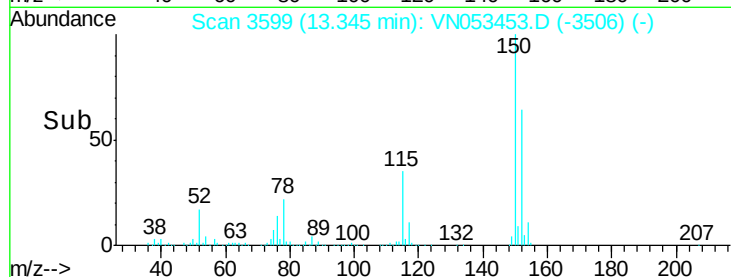


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.35 min Scan# 3599  
 Delta R.T. 0.00 min  
 Lab File: VN053453.D  
 Acq: 17 Jan 2019 23:34

Tot Ion:152 Resp: 616412  
 Ion Ratio Lower Upper  
 152 100  
 115 55.5 27.8 83.4  
 150 156.6 0.0 349.0

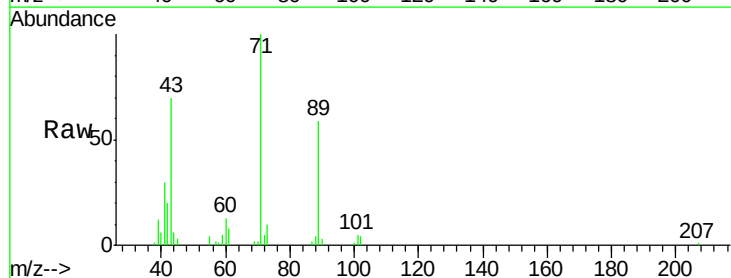


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

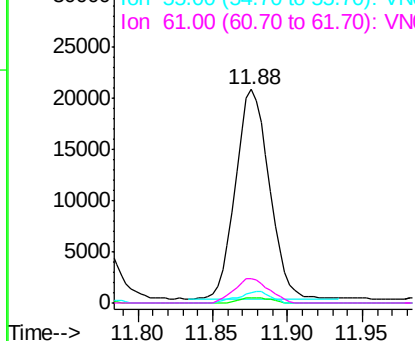
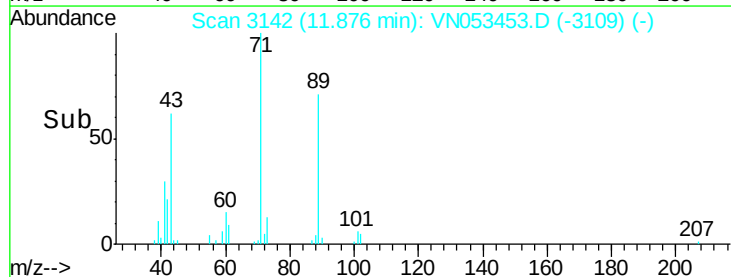


#74  
 N-ethyl acetate  
 Concen: 2.678 ug/l  
 RT: 11.88 min Scan# 3142  
 Delta R.T. -0.19 min  
 Lab File: VN053453.D  
 Acq: 17 Jan 2019 23:34

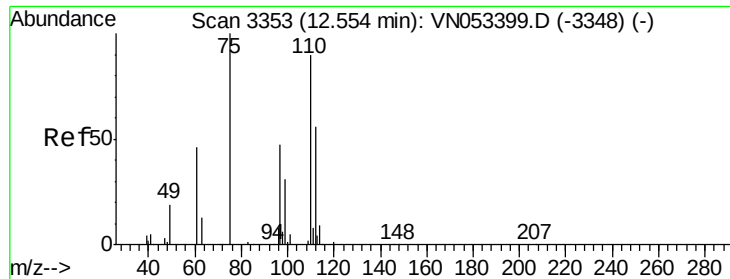
Tgt Ion: 43 Resp: 32220  
 Ion Ratio Lower Upper  
 43 100  
 70 2.4 35.4 53.2#  
 55 5.4 20.9 31.3#  
 61 11.9 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): V  
 Ion 70.00 (69.70 to 70.70): V  
 Ion 55.00 (54.70 to 55.70): V  
 Ion 61.00 (60.70 to 61.70): V



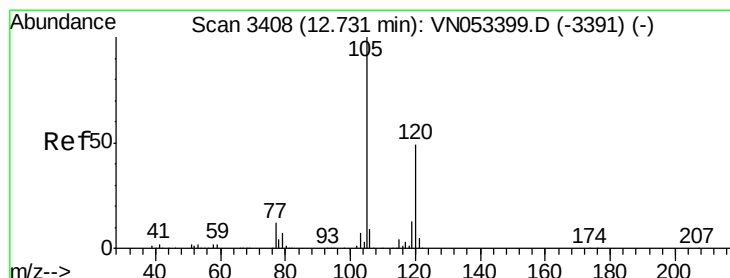
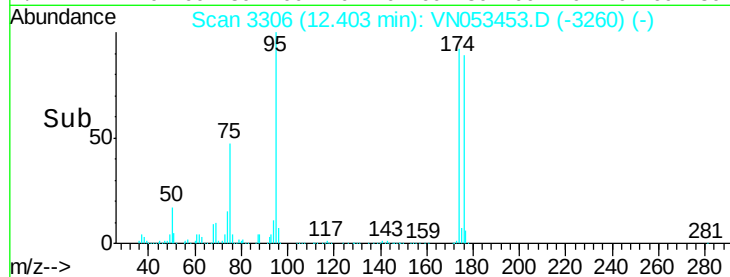
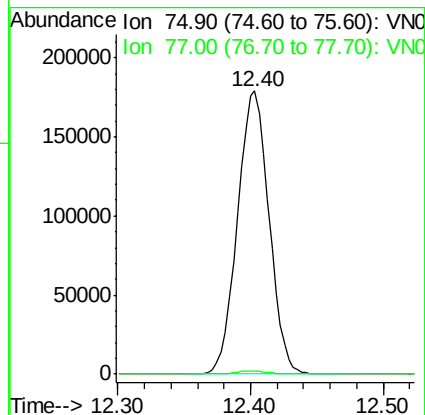
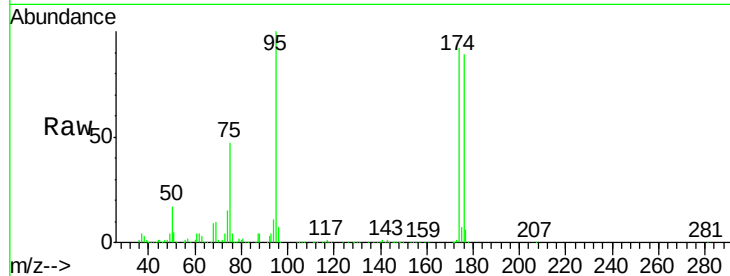




#76

1,2,3-Trichloropropane  
Concen: 36.360 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. -0.15 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

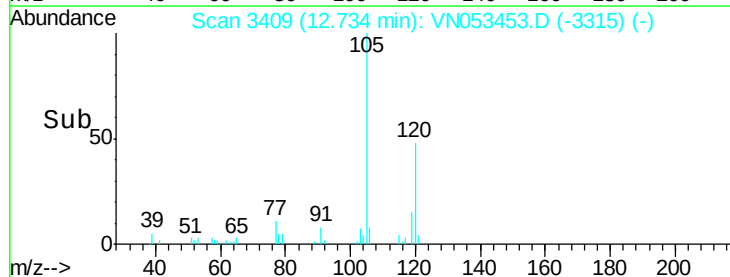
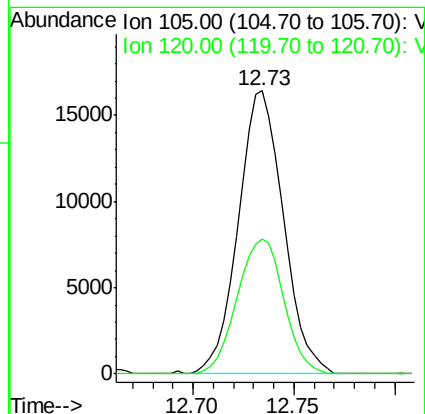
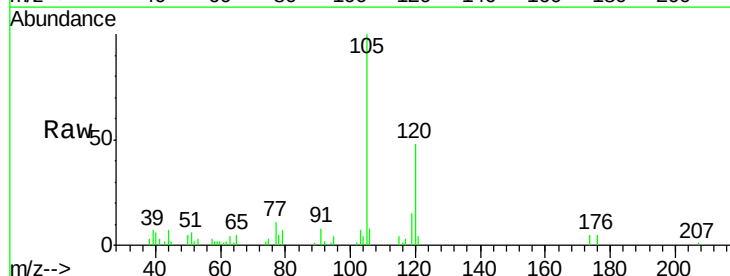
Tot Ion: 75 Resp: 295357  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#

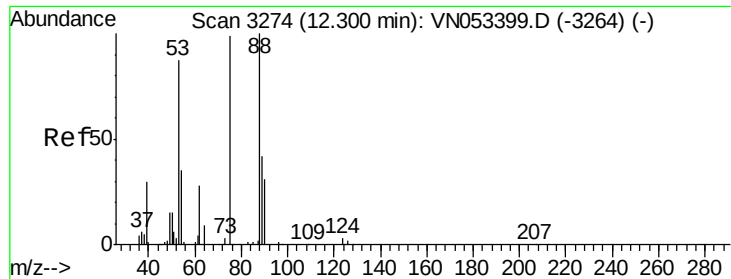


#80

1,3,5-Trimethylbenzene  
Concen: 0.701 ug/l  
RT: 12.73 min Scan# 3409  
Delta R.T. 0.00 min  
Lab File: VN053453.D  
Acq: 17 Jan 2019 23:34

Tgt Ion: 105 Resp: 25759  
Ion Ratio Lower Upper  
105 100  
120 49.2 24.9 74.6





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 89.889 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.10 min  
 Lab File: VN053453.D  
 Acq: 17 Jan 2019 23:34

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 69.8  | 104.6# |
| 89      | 0.0   | 35.6  | 53.4#  |

