

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050420\  
 Data File : VN061271.D  
 Acq On : 4 May 2020 12:34  
 Operator : JC/MD  
 Sample : L2445-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 05 03:42:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 29 08:14:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 102181   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 183664   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 174229   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 72985    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 81939    | 50.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.36% |      |
| 35) Dibromofluoromethane  | 7.54   | 113 | 52575    | 48.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.82%  |      |
| 50) Toluene-d8            | 10.06  | 98  | 227990   | 51.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.00% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 82823    | 49.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.42%  |      |

## Target Compounds

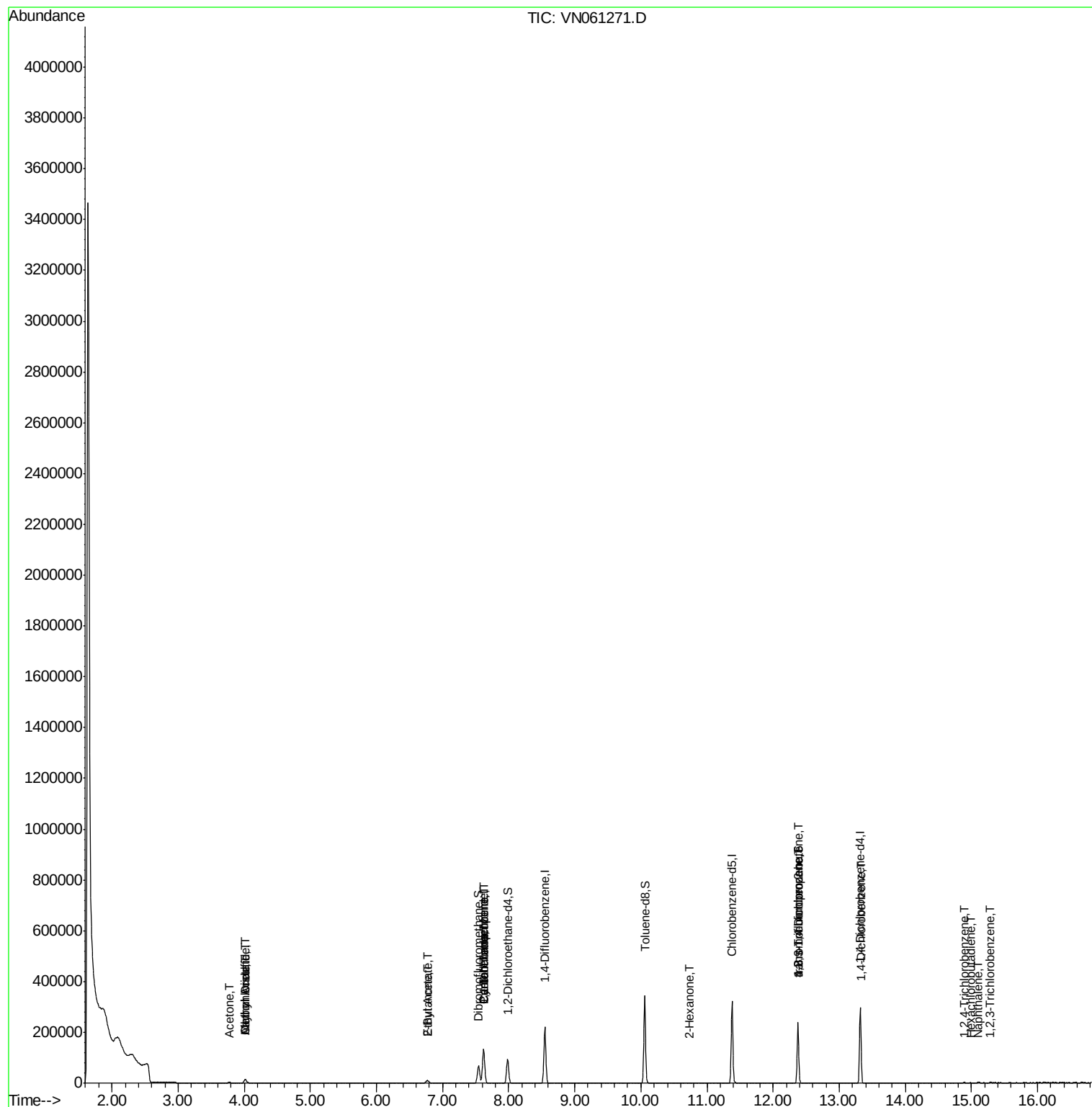
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 14) Allyl chloride             | 4.02  | 41  | 2320  | 1.161  | ug/l # | 84     |
| 16) Acetone                    | 3.77  | 43  | 5701  | 3.674  | ug/l   | 100    |
| 17) Carbon Disulfide           | 4.01  | 76  | 666   | 0.224  | ug/l # | 75     |
| 18) Methyl Acetate             | 4.01  | 43  | 5855  | 3.509  | ug/l # | 55     |
| 25) 2-Butanone                 | 6.76  | 43  | 481   | 0.503  | ug/l # | 53     |
| 31) Cyclohexane                | 7.62  | 56  | 2699  | 1.147  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.62  | 75  | 9403  | 5.114  | ug/l # | 50     |
| 37) Ethyl Acetate              | 6.76  | 43  | 481   | 0.223  | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.62  | 117 | 11052 | 8.574  | ug/l # | 16     |
| 59) 2-Hexanone                 | 10.72 | 43  | 469   | 0.306  | ug/l # | 27     |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75  | 44865 | 29.157 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75  | 44865 | 74.045 | ug/l # | 8      |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146 | 616   | 0.264  | ug/l # | 1      |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180 | 666   | 0.500  | ug/l # | 78     |
| 94) Hexachlorobutadiene        | 14.98 | 225 | 234   | 0.421  | ug/l   | 79     |
| 95) Naphthalene                | 15.11 | 128 | 2323  | 0.536  | ug/l # | 84     |
| 96) 1,2,3-Trichlorobenzene     | 15.28 | 180 | 576   | 0.438  | ug/l # | 73     |

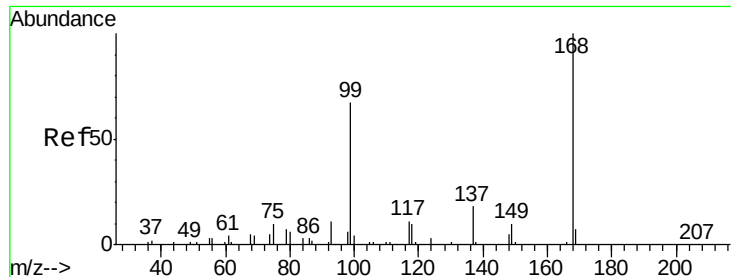
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Apr 29 08:14:26 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1876

Delta R.T. -0.00 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

Instrument :

MSVOA\_N

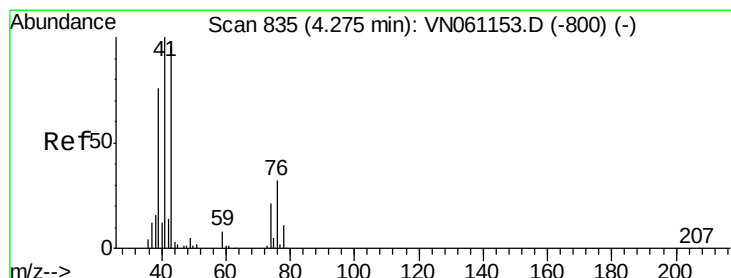
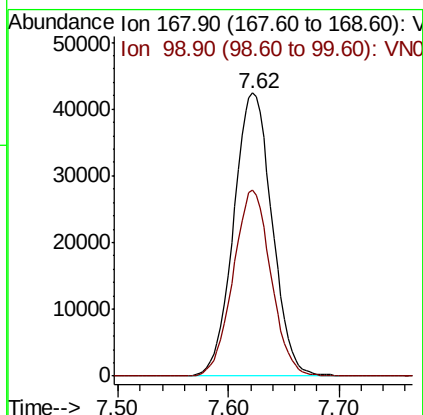
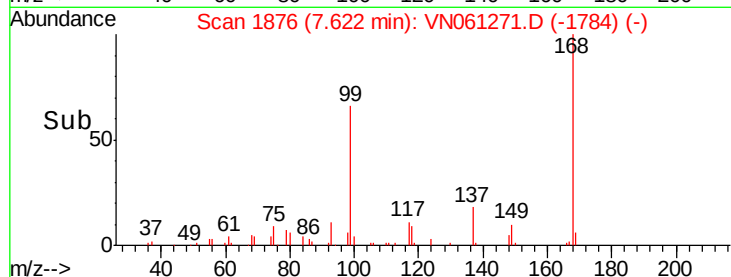
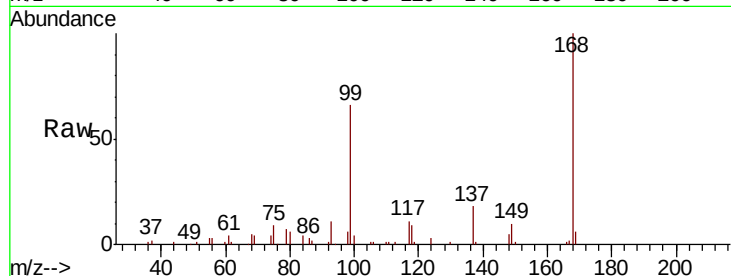
ClientSampleId :

Tot Ion:168 Resp: 102181

Ion Ratio Lower Upper

168 100

99 65.8 51.2 76.8



#14

Allyl chloride

Concen: 1.161 ug/l

RT: 4.02 min Scan# 755

Delta R.T. -0.26 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

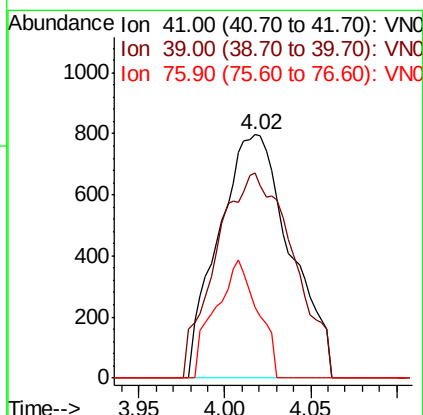
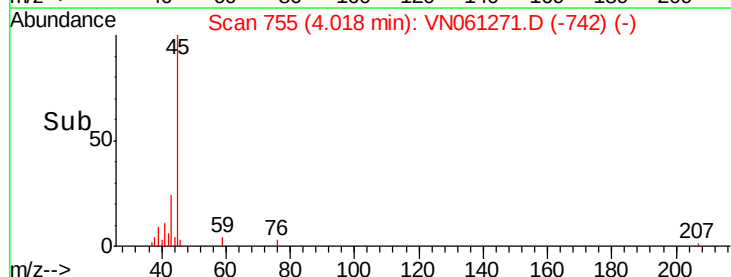
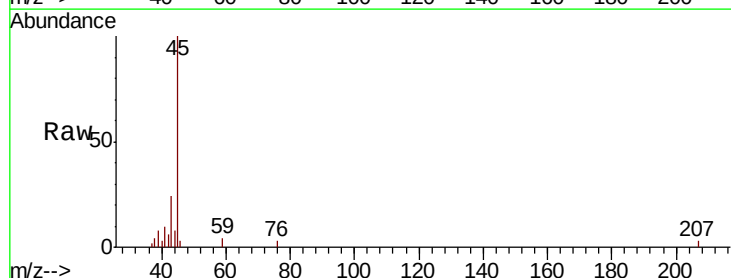
Tgt Ion: 41 Resp: 2320

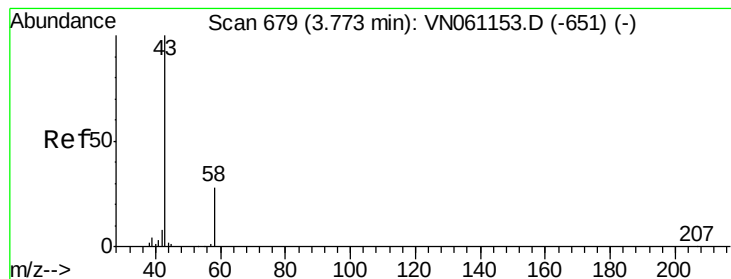
Ion Ratio Lower Upper

41 100

39 89.1 57.1 85.7#

76 28.7 24.3 36.5





#16

Acetone

Concen: 3.674 ug/l

RT: 3.77 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

Instrument :

MSVOA\_N

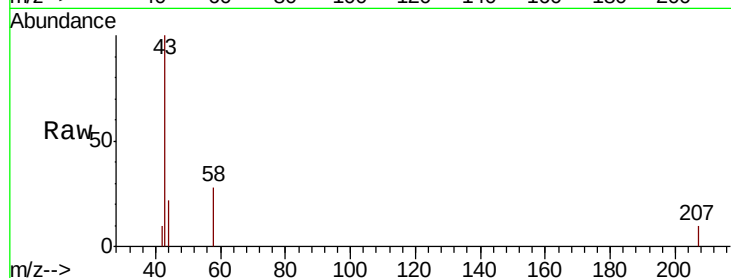
ClientSampled :

Tot Ion: 43 Resp: 5701

Ion Ratio Lower Upper

43 100

58 27.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-651) (-)

Ion 58.00 (57.70 to 58.70): VN061153.D (-651) (-)

3.77

2000

1500

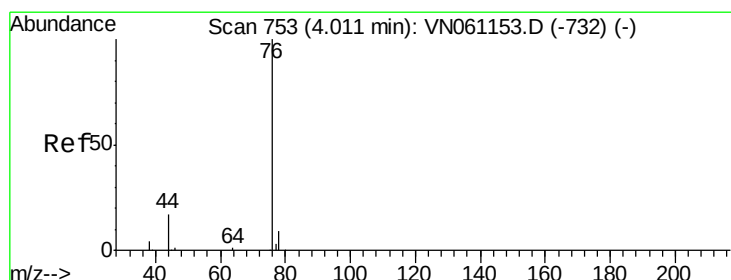
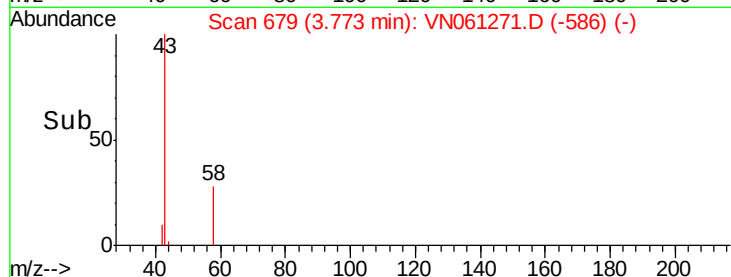
1000

500

0

Time-->

3.70 3.75 3.80 3.85



#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 4.01 min Scan# 752

Delta R.T. -0.00 min

Lab File: VN061271.D

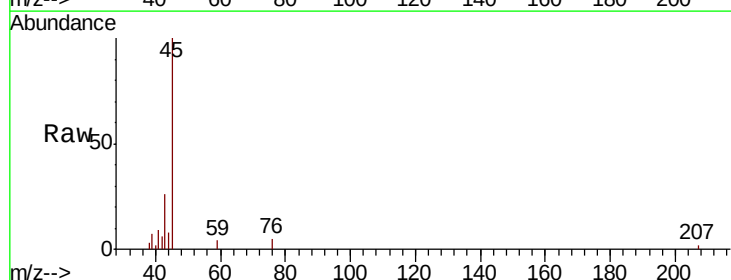
Acq: 4 May 2020 12:34

Tgt Ion: 76 Resp: 666

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN061153.D (-732) (-)

Ion 77.90 (77.60 to 78.60): VN061153.D (-732) (-)

4.01

400

300

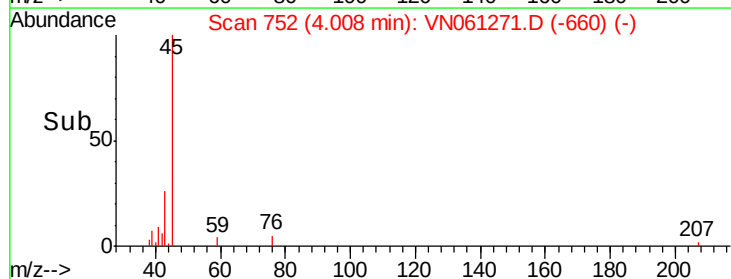
200

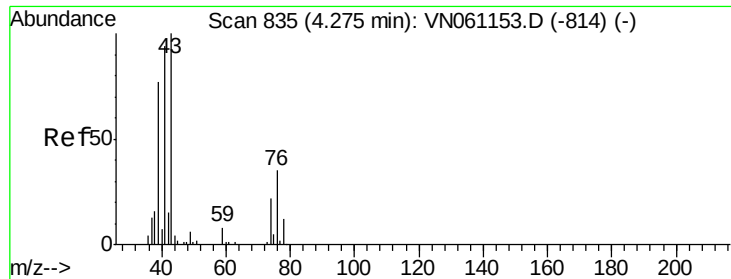
100

0

Time-->

4.00 4.05

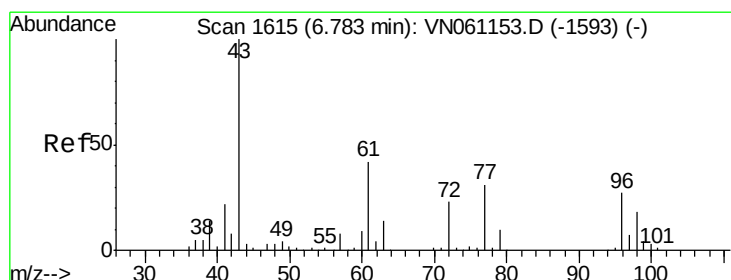
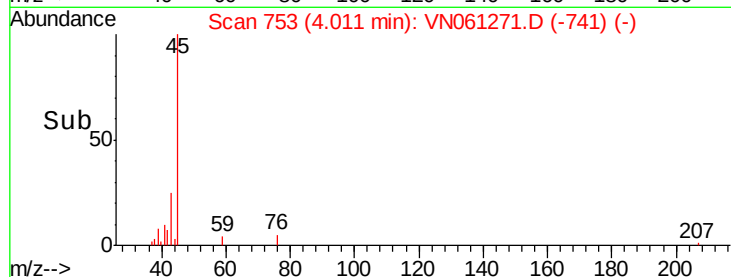
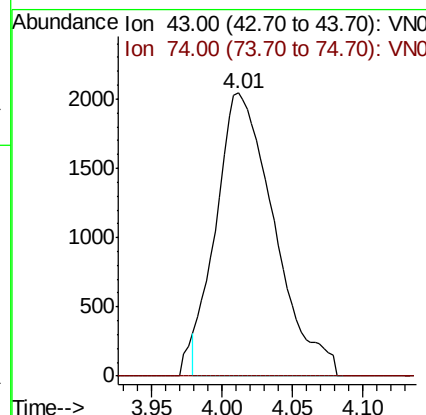
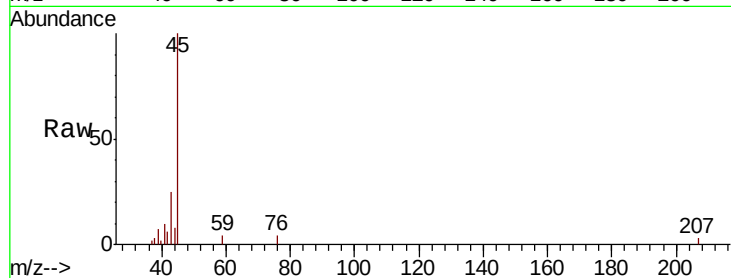




#18  
Methvl Acetate  
Concen: 3.509 ug/l  
RT: 4.01 min Scan# 753  
Delta R.T. -0.26 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

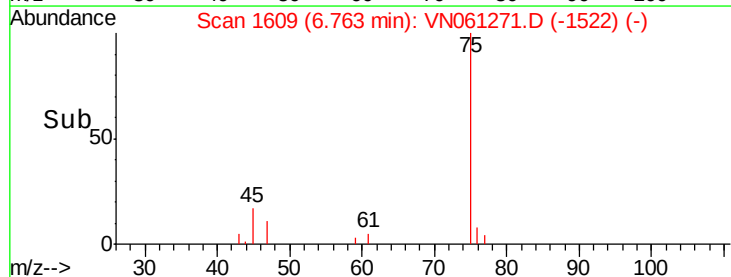
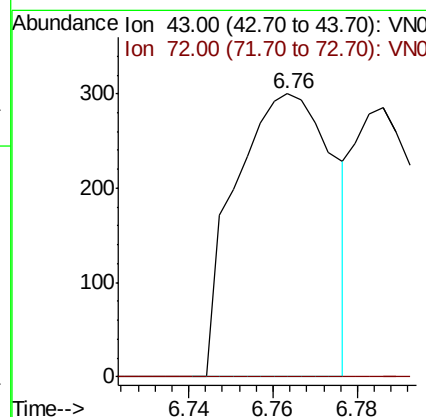
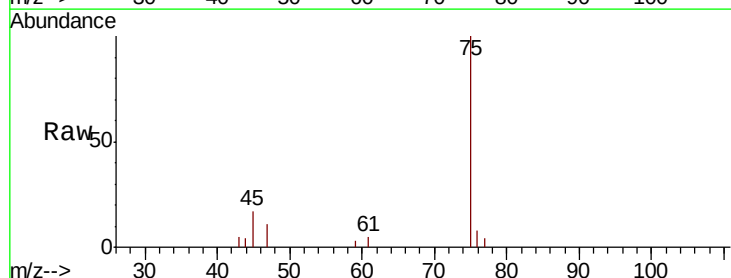
Instrument :  
MSVOA\_N  
ClientSampled :

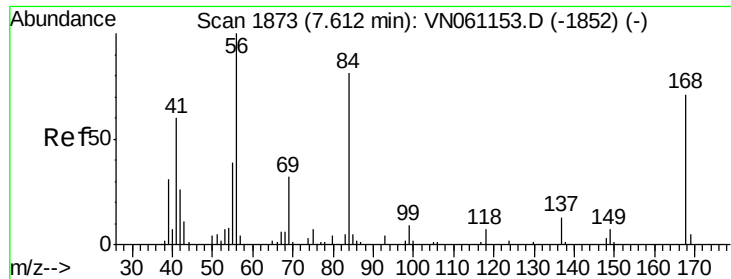
Tot Ion: 43 Resp: 5855  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.0 25.4#



#25  
2-Butanone  
Concen: 0.503 ug/l  
RT: 6.76 min Scan# 1609  
Delta R.T. -0.02 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

Tgt Ion: 43 Resp: 481  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.2 27.4#

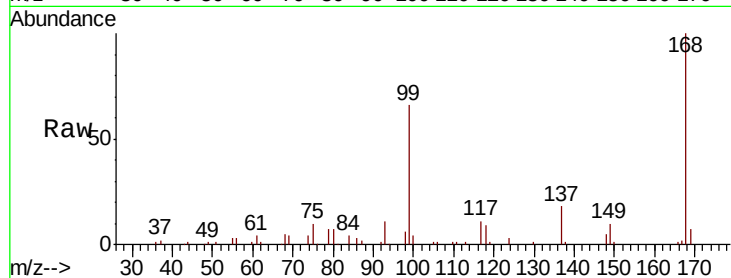




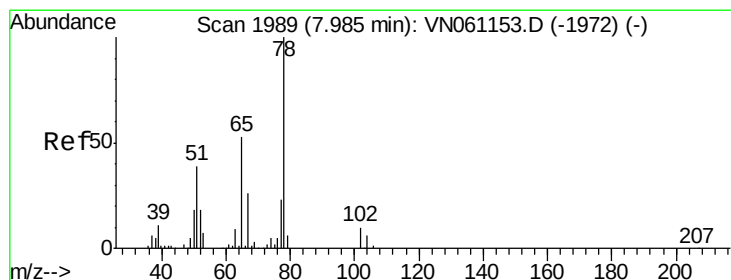
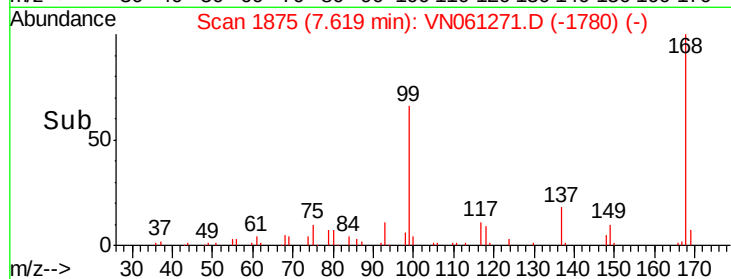
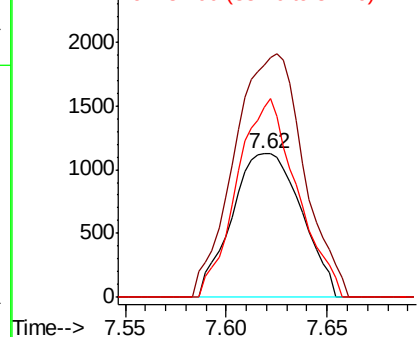
#31  
Cyclohexane  
Concen: 1.147 ug/l  
RT: 7.62 min Scan# 1875  
Delta R.T. 0.01 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 56 Resp: 2699  
Ion Ratio Lower Upper  
56 100  
69 161.5 25.7 38.5#  
84 132.2 64.6 97.0#

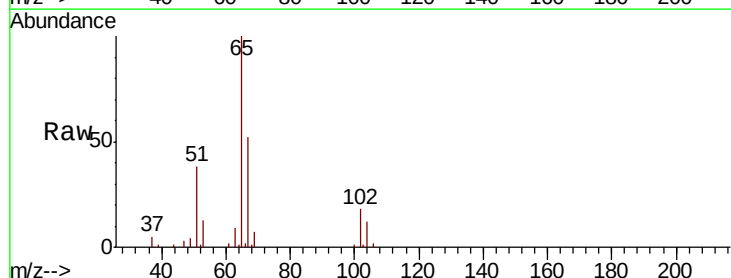


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

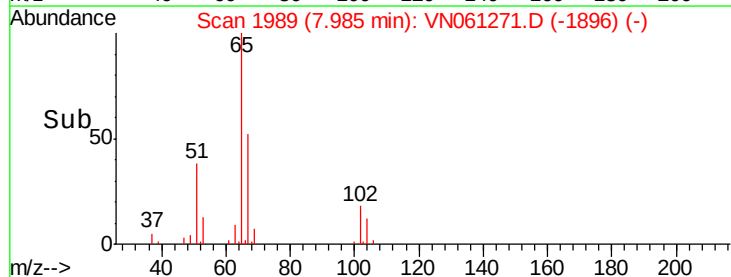
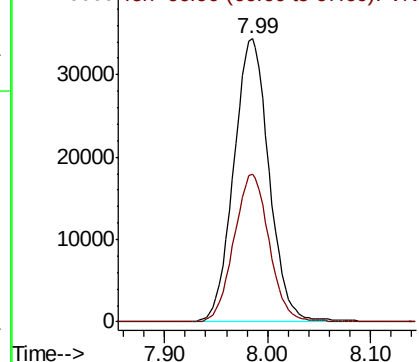


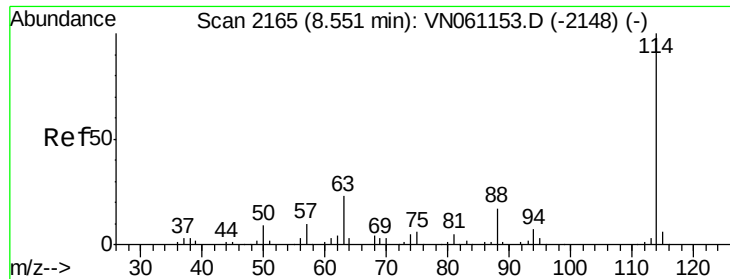
#33  
1,2-Dichloroethane-d4  
Concen: 50.679 ug/l  
RT: 7.99 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

Tgt Ion: 65 Resp: 81939  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 101.6



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

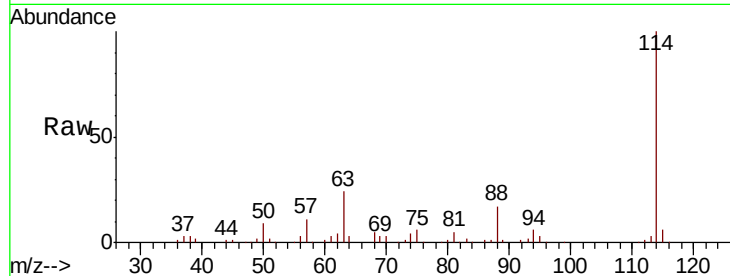




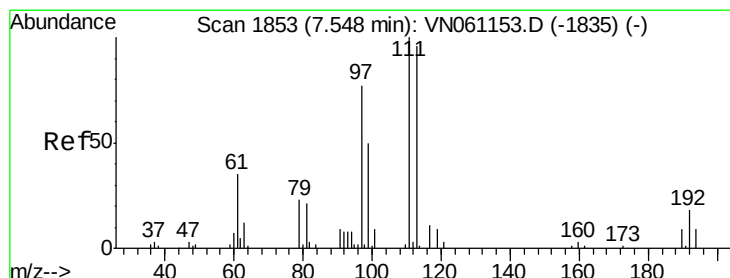
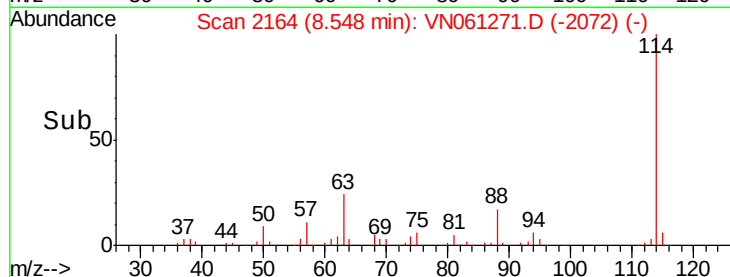
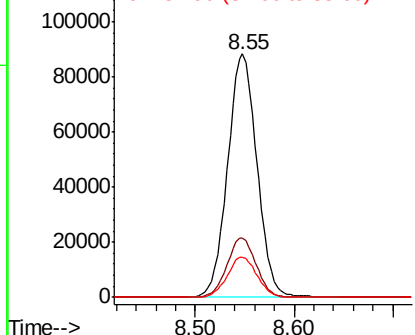
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2164  
 Delta R.T. -0.00 min  
 Lab File: VN061271.D  
 Acq: 4 May 2020 12:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion:114 Resp: 183664  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 46.6  
 88 16.7 0.0 33.4

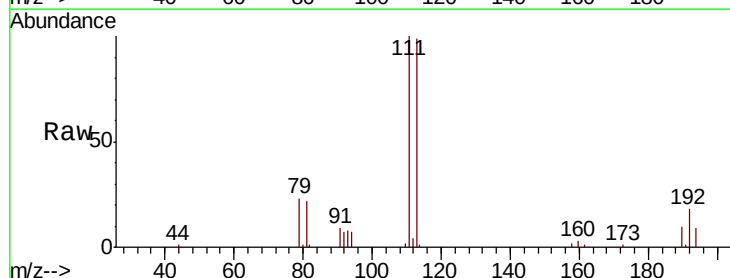


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

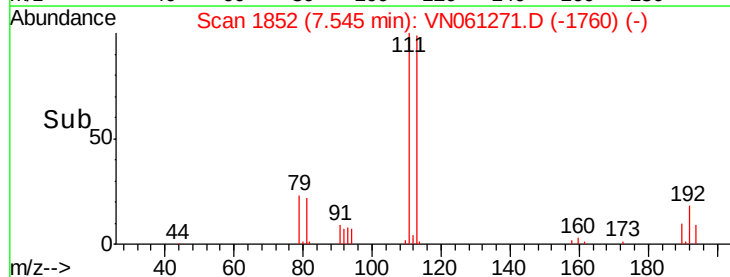
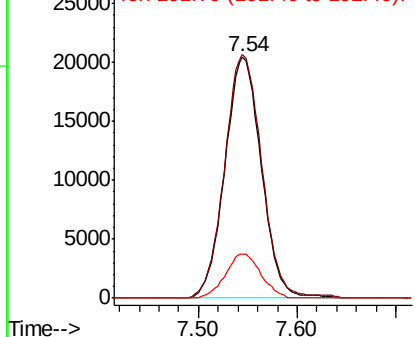


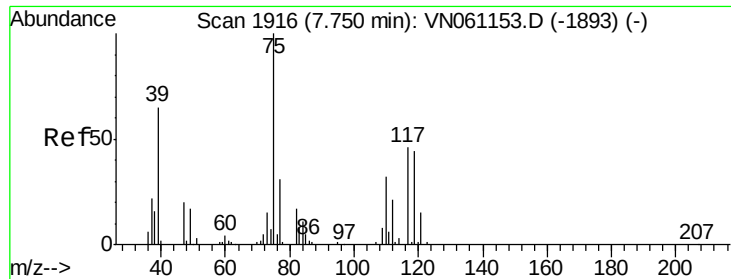
#35  
 Dibromofluoromethane  
 Concen: 48.409 ug/l  
 RT: 7.54 min Scan# 1852  
 Delta R.T. -0.00 min  
 Lab File: VN061271.D  
 Acq: 4 May 2020 12:34

Tgt Ion:113 Resp: 52575  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.9 124.3  
 192 17.8 14.7 22.1



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

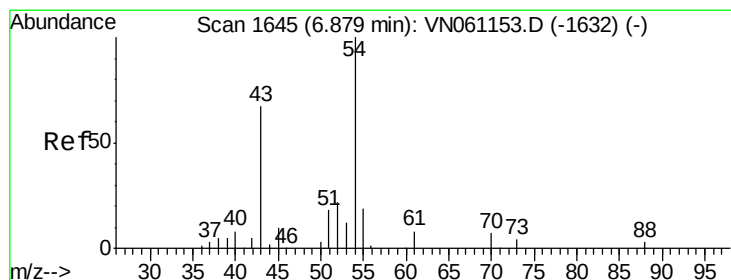
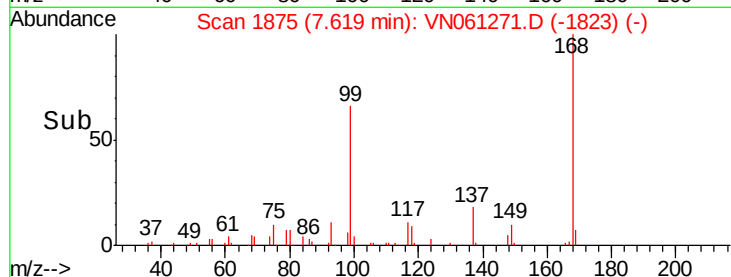
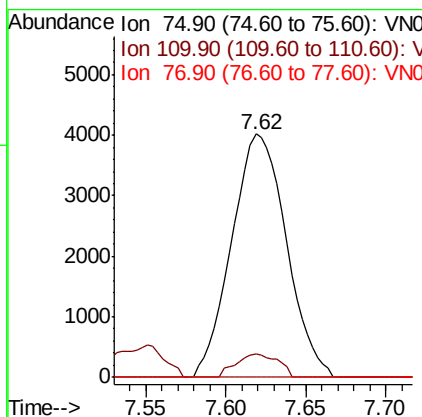
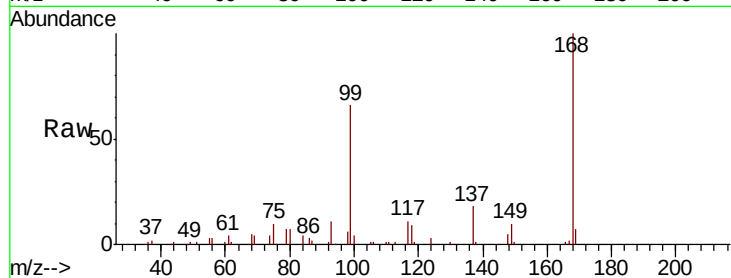




#36  
 1,1-Dichloropropene  
 Concen: 5.114 ug/l  
 RT: 7.62 min Scan# 1875  
 Delta R.T. -0.13 min  
 Lab File: VN061271.D  
 Acq: 4 May 2020 12:34

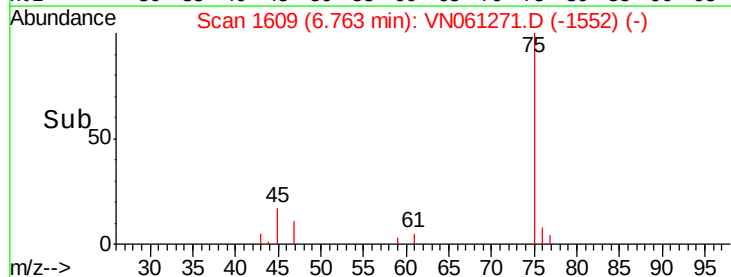
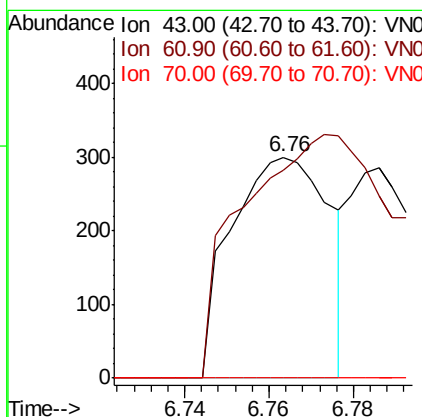
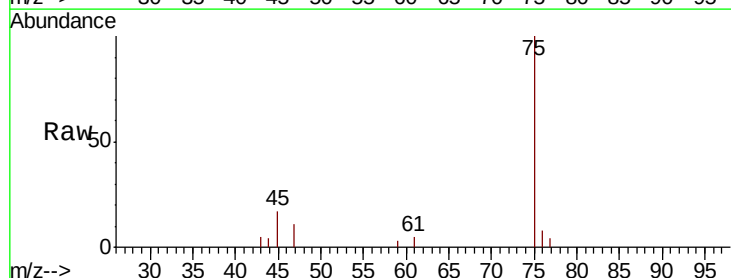
Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 75 Resp: 9403  
 Ion Ratio Lower Upper  
 75 100  
 110 7.3 16.0 48.0#  
 77 0.0 24.6 37.0#

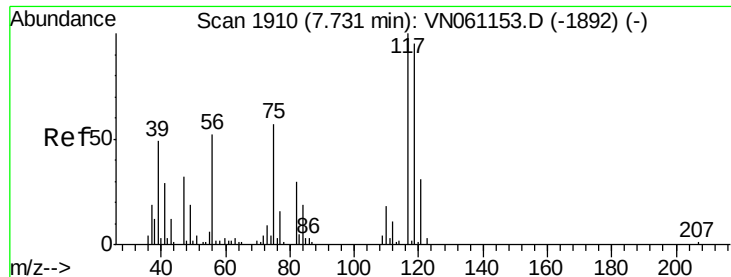


#37  
 Ethyl Acetate  
 Concen: 0.223 ug/l  
 RT: 6.76 min Scan# 1609  
 Delta R.T. -0.12 min  
 Lab File: VN061271.D  
 Acq: 4 May 2020 12:34

Tgt Ion: 43 Resp: 481  
 Ion Ratio Lower Upper  
 43 100  
 61 174.6 10.2 15.2#  
 70 0.0 7.2 10.8#







#38

Carbon Tetrachloride

Concen: 8.574 ug/l

RT: 7.62 min Scan# 1876

Delta R.T. -0.11 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

Instrument :

MSVOA\_N

ClientSampled :

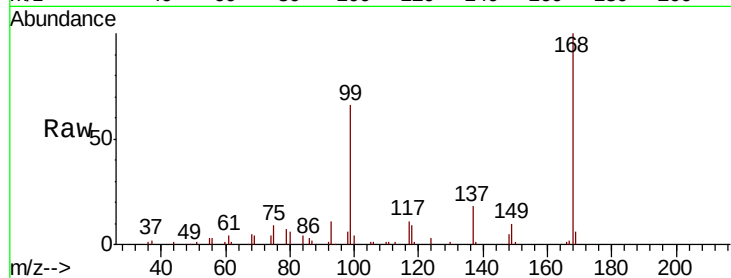
Tot Ion:117 Resp: 11052

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.6#

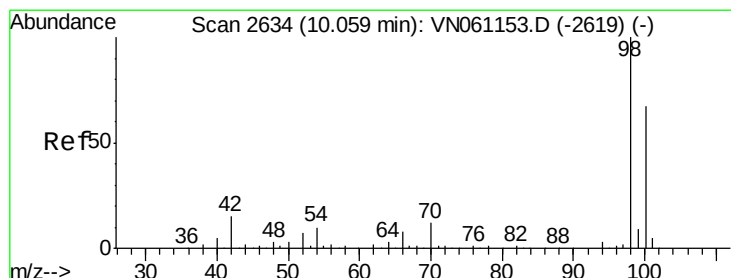
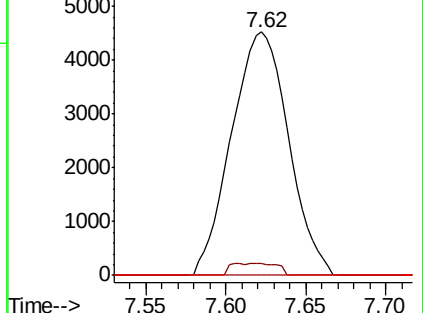
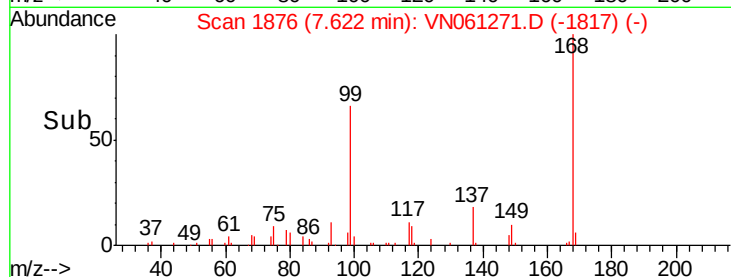
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 51.496 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061271.D

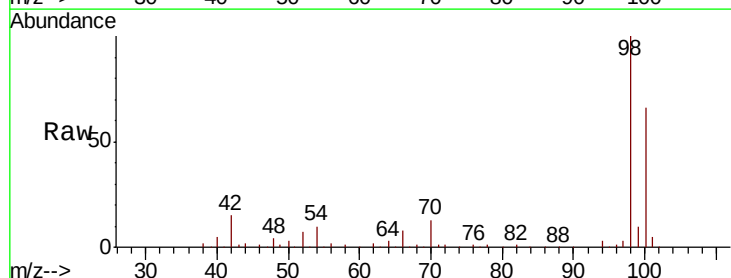
Acq: 4 May 2020 12:34

Tgt Ion: 98 Resp: 227990

Ion Ratio Lower Upper

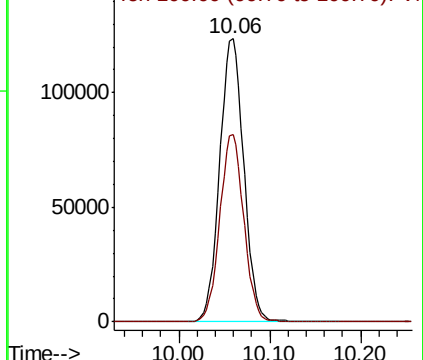
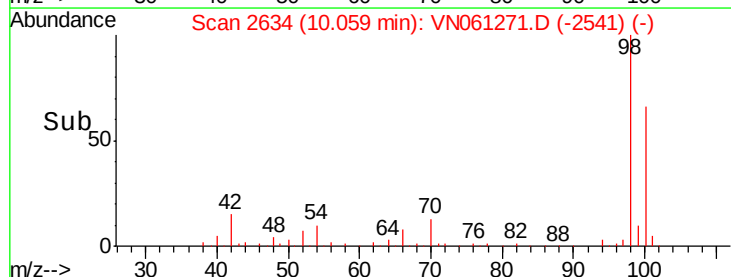
98 100

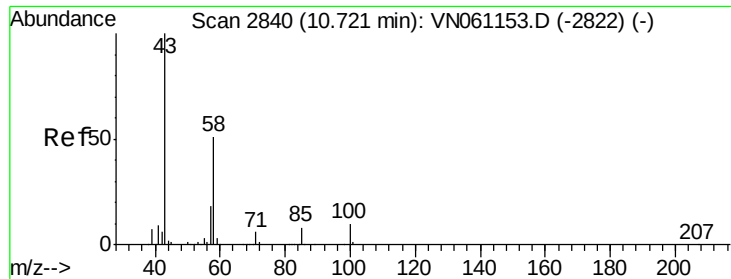
100 65.6 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

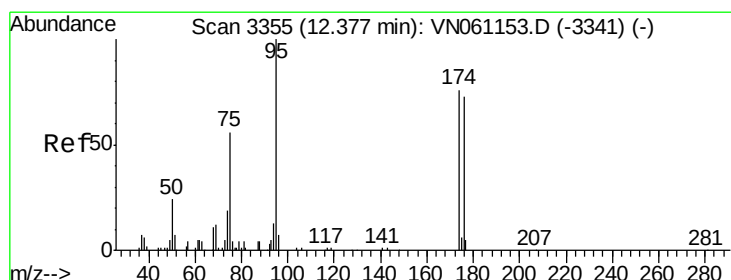
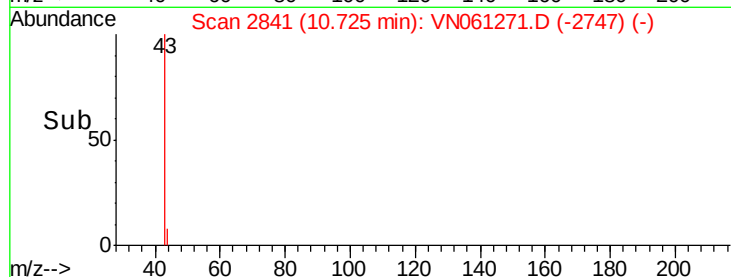
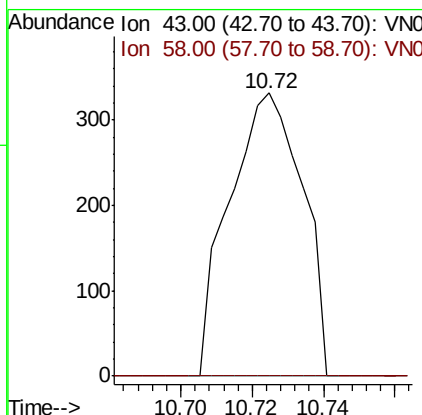
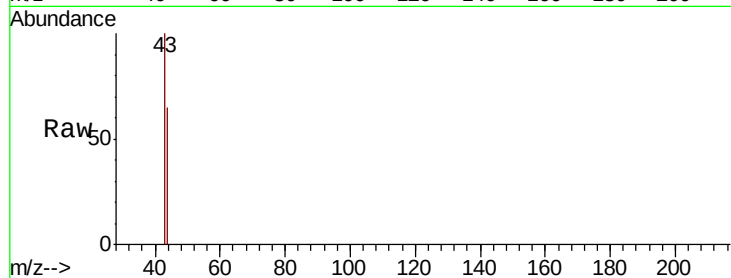




#59  
2-Hexanone  
Concen: 0.306 ug/l  
RT: 10.72 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

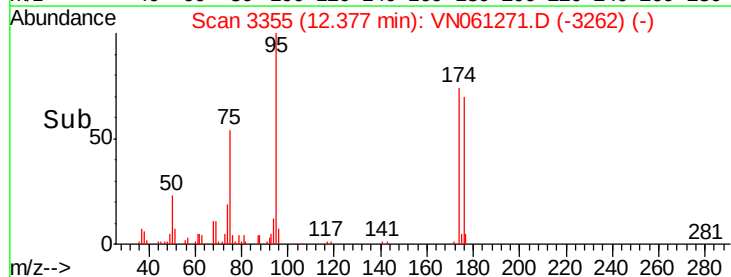
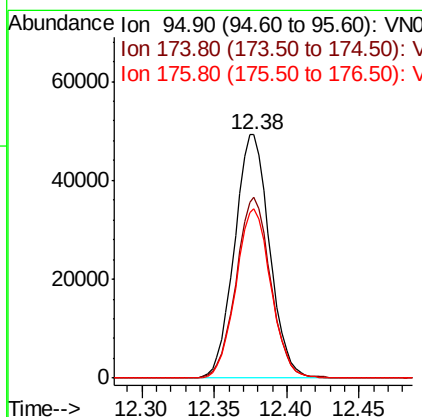
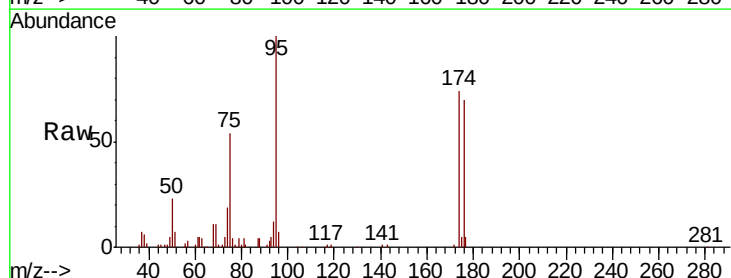
Instrument :  
MSVOA\_N  
ClientSampleId :

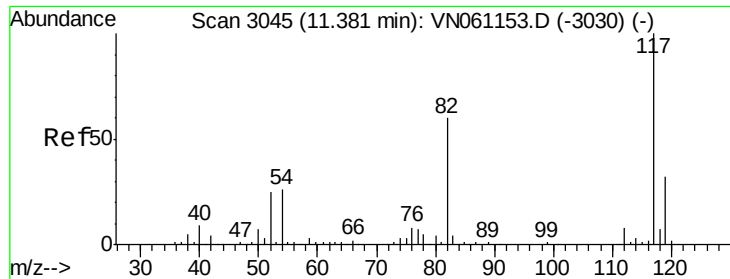
Tot Ion: 43 Resp: 469  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.4 76.4#



#62  
4-Bromofluorobenzene  
Concen: 49.712 ug/l  
RT: 12.38 min Scan# 3355  
Delta R.T. 0.00 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

Tgt Ion: 95 Resp: 82823  
Ion Ratio Lower Upper  
95 100  
174 73.2 0.0 149.4  
176 69.4 0.0 144.8

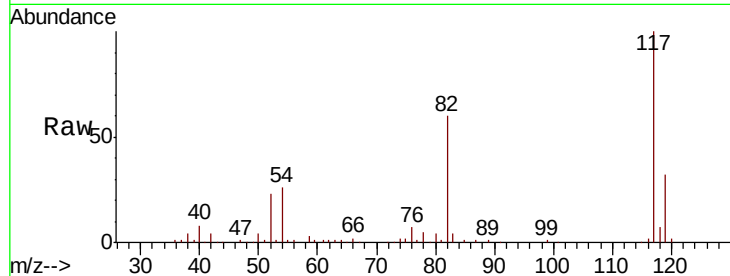




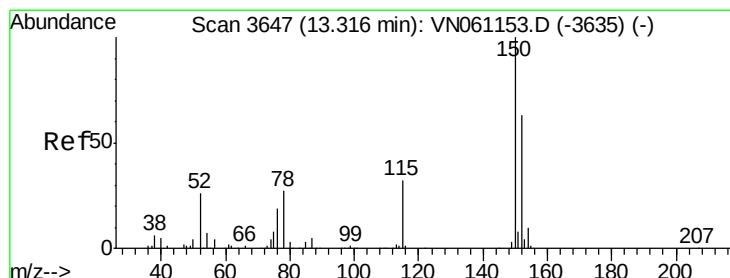
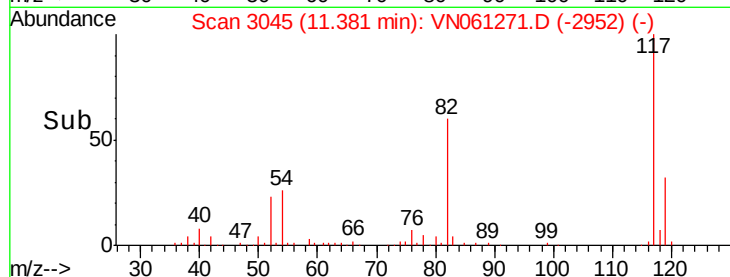
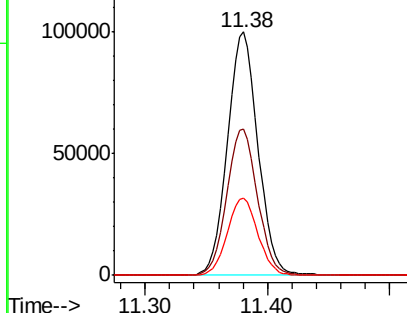
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 3045  
Delta R.T. 0.00 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 174229  
Ion Ratio Lower Upper  
117 100  
82 60.0 47.8 71.8  
119 31.9 25.8 38.6

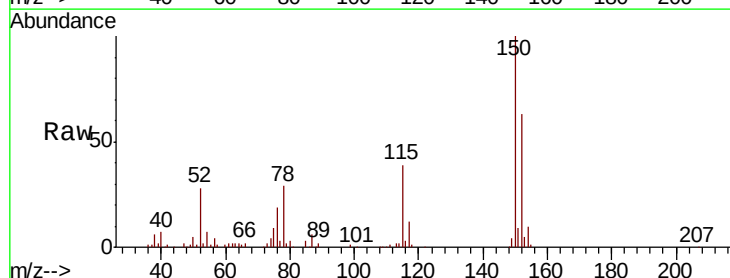


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

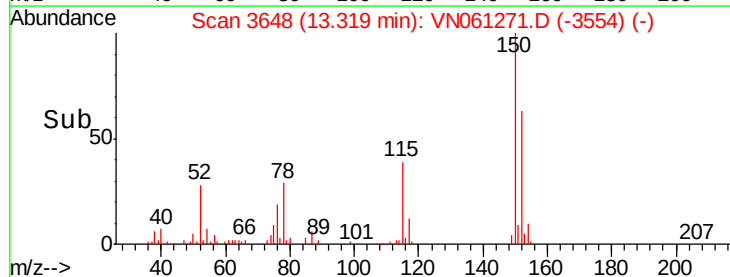
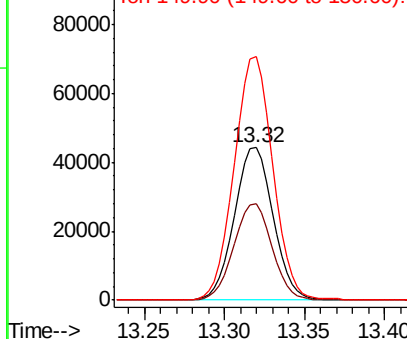


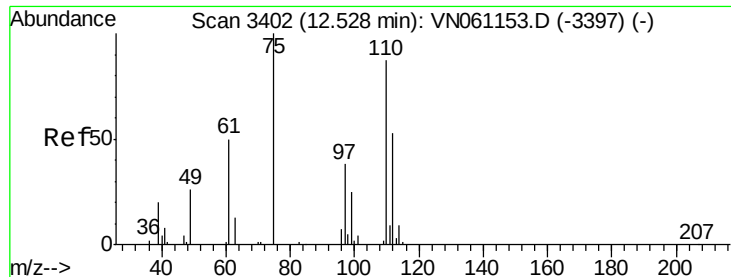
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3648  
Delta R.T. 0.00 min  
Lab File: VN061271.D  
Acq: 4 May 2020 12:34

Tgt Ion:152 Resp: 72985  
Ion Ratio Lower Upper  
152 100  
115 62.4 31.0 93.0  
150 159.4 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: 29.157 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. -0.15 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

Instrument :

MSVOA\_N

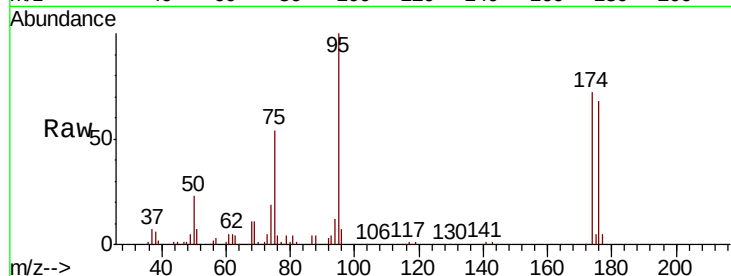
ClientSampled :

Tot Ion: 75 Resp: 44865

Ion Ratio Lower Upper

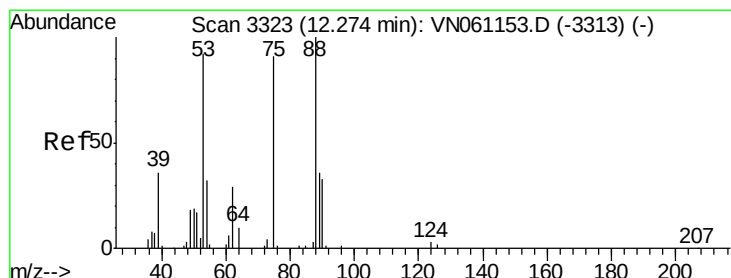
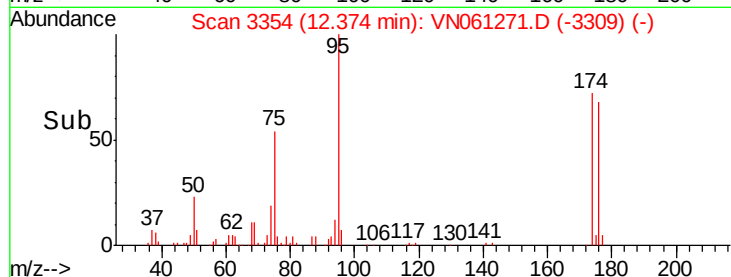
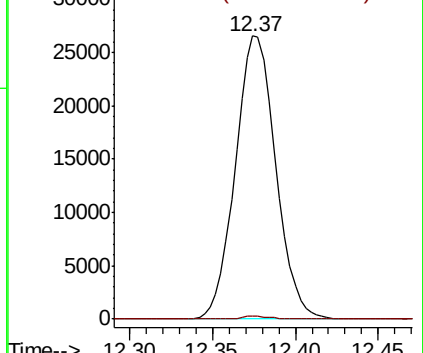
75 100

77 0.6 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: 74.045 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. 0.10 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

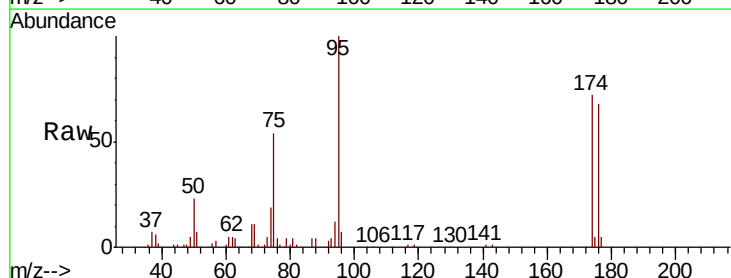
Tgt Ion: 75 Resp: 44865

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

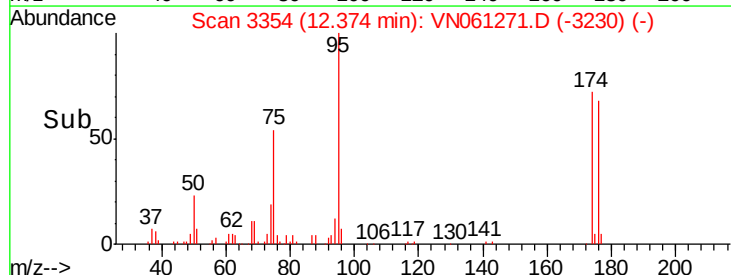
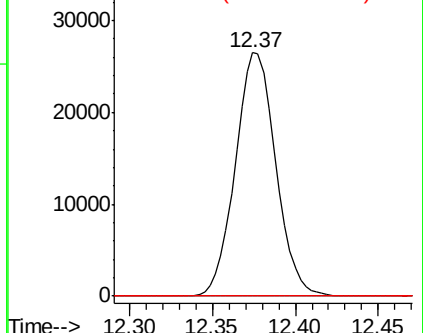
89 0.0 35.2 52.8#

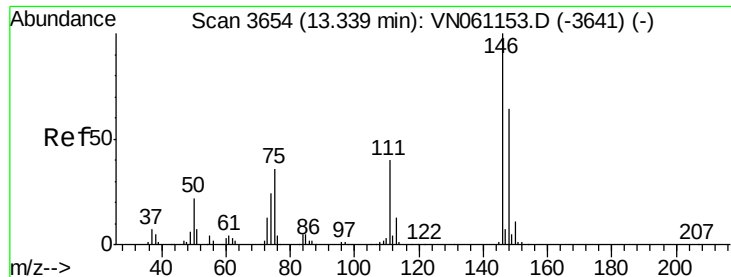


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

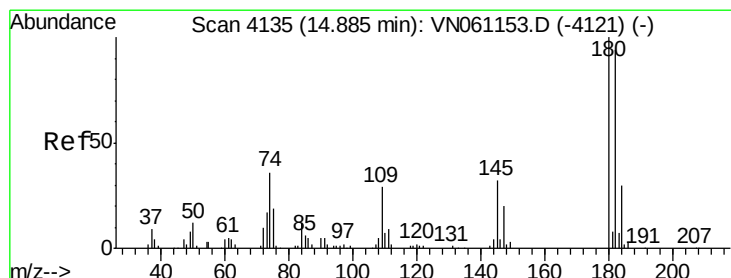
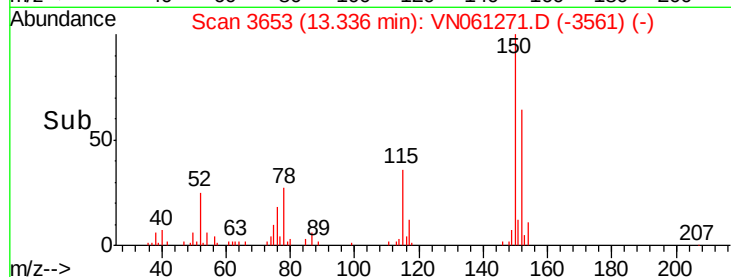
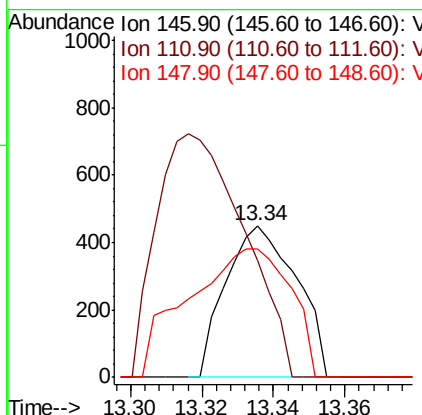
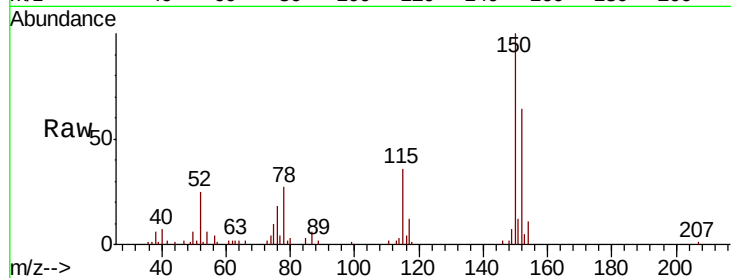




#88  
 1,4-Dichlorobenzene  
 Concen: 0.264 ug/l  
 RT: 13.34 min Scan# 3653  
 Delta R.T. -0.00 min  
 Lab File: VN061271.D  
 Acq: 4 May 2020 12:34

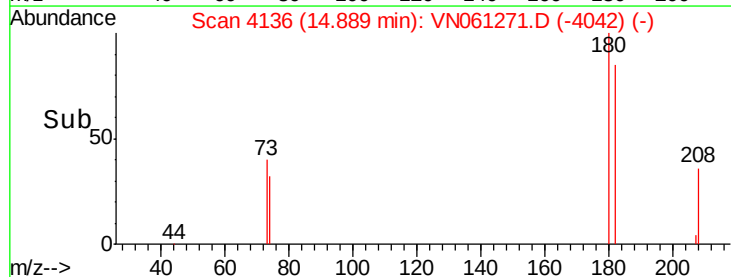
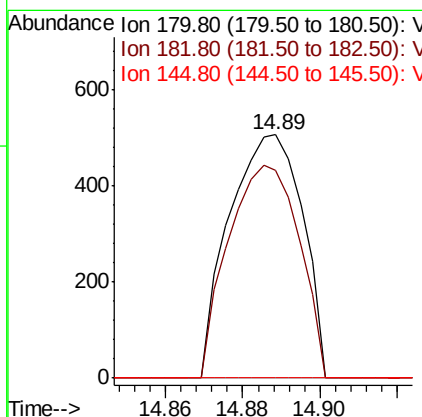
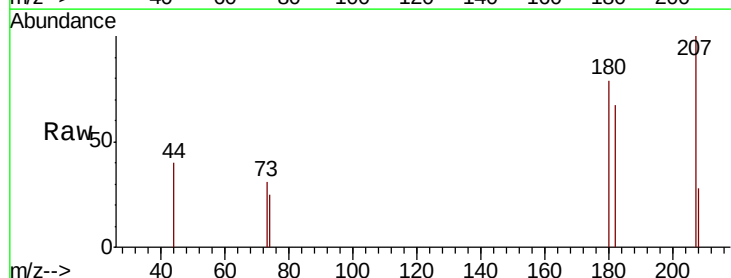
Instrument :  
 MSVOA\_N  
 ClientSampled :

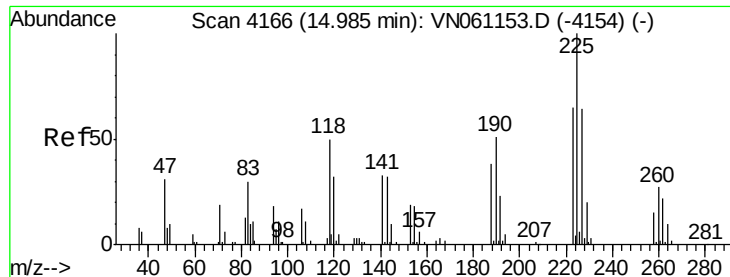
Tot Ion:146 Resp: 616  
 Ion Ratio Lower Upper  
 146 100  
 111 198.9 20.4 61.3#  
 148 122.6 31.9 95.7#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.500 ug/l  
 RT: 14.89 min Scan# 4136  
 Delta R.T. 0.00 min  
 Lab File: VN061271.D  
 Acq: 4 May 2020 12:34

Tgt Ion:180 Resp: 666  
 Ion Ratio Lower Upper  
 180 100  
 182 84.7 47.3 141.9  
 145 0.0 16.0 47.9#





#94

Hexachlorobutadiene

Concen: 0.421 ug/l

RT: 14.98 min Scan# 4165

Delta R.T. -0.00 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

Instrument :

MSVOA\_N

ClientSampleId :

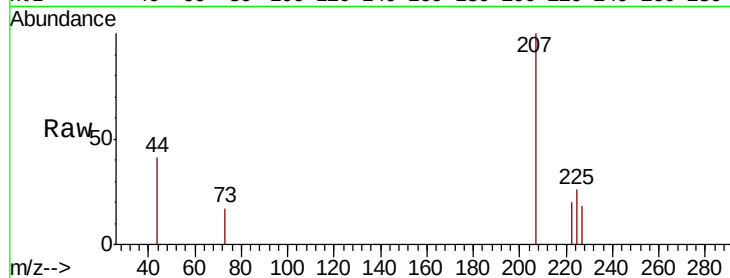
Tot Ion:225 Resp: 234

Ion Ratio Lower Upper

225 100

223 55.1 32.4 97.0

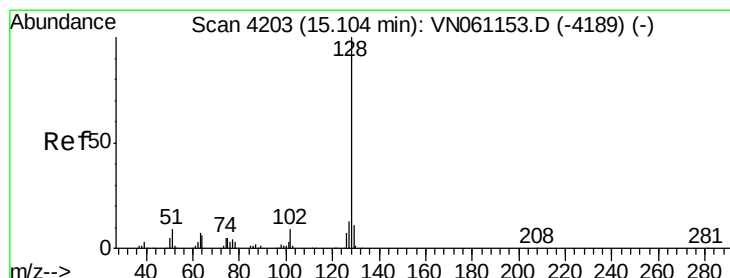
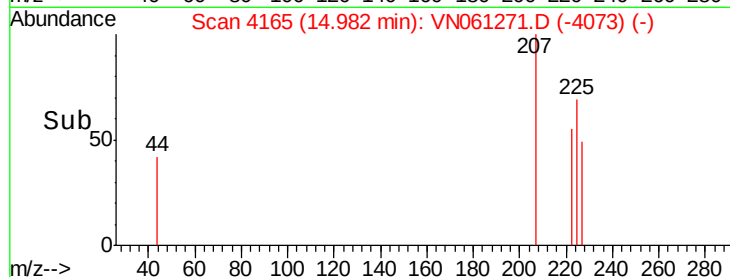
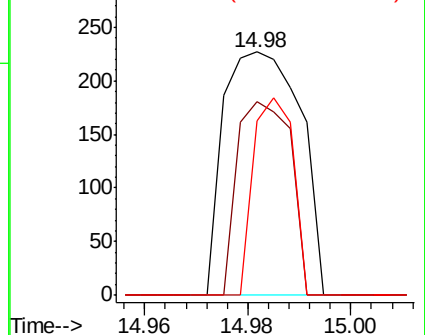
227 41.9 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.536 ug/l

RT: 15.11 min Scan# 4205

Delta R.T. 0.01 min

Lab File: VN061271.D

Acq: 4 May 2020 12:34

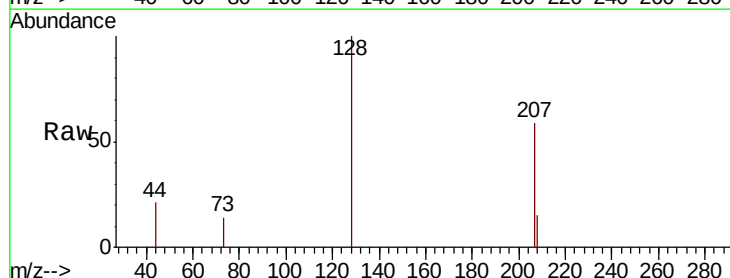
Tgt Ion:128 Resp: 2323

Ion Ratio Lower Upper

128 100

127 6.6 10.4 15.6#

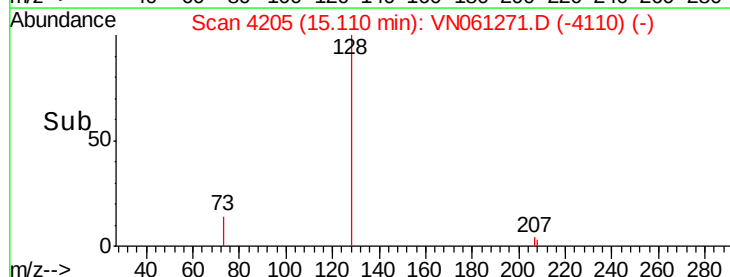
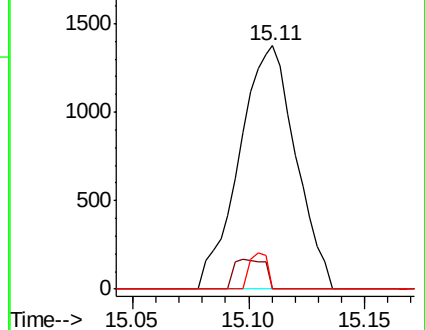
129 4.6 8.7 13.1#

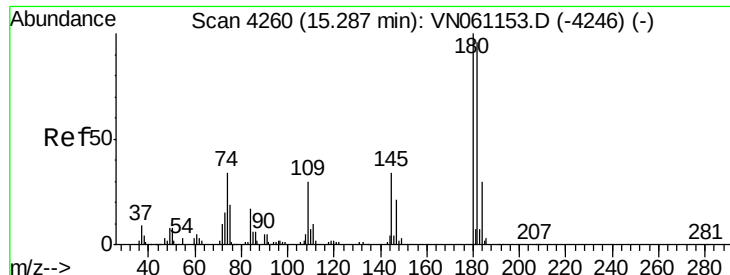


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.438 ug/l  
 RT: 15.28 min Scan# 4259  
 Delta R.T. -0.00 min  
 Lab File: VN061271.D  
 Acq: 4 May 2020 12:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 109.5 | 47.5  | 142.5 |
| 145     | 0.0   | 16.9  | 50.7  |

