

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081418\  
 Data File : VN050614.D  
 Acq On : 14 Aug 2018 20:08  
 Operator : MD\SY  
 Sample : J4469-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 961-IW-22(17)

Quant Time: Aug 15 13:35:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 08:07:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 625342   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 990321   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 832026   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 289192   | 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   | 414054   | 52.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.06% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 392424   | 49.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.26%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1378457  | 46.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.66%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 360178   | 36.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 73.28%  |          |

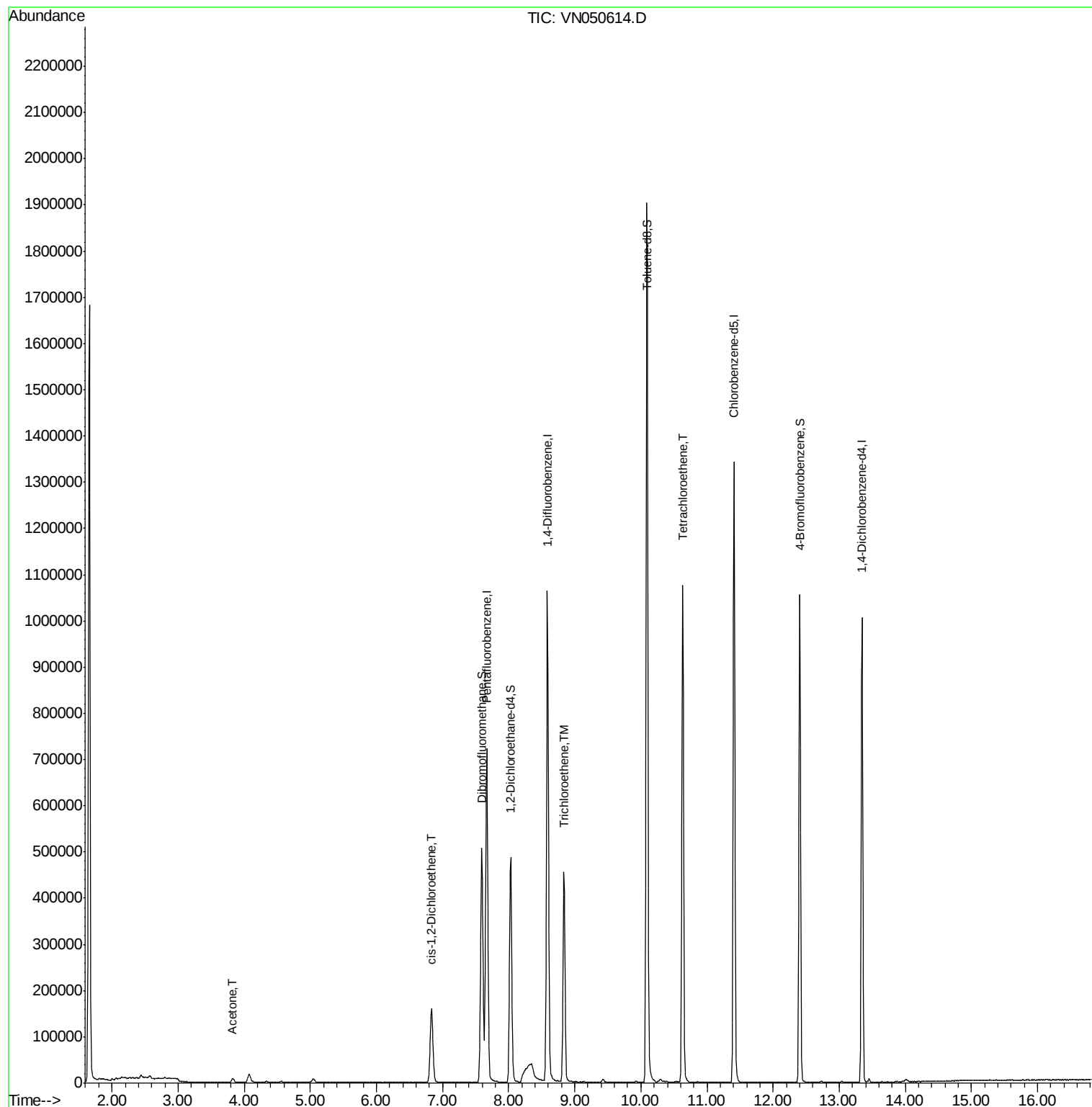
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 16) Acetone                | 3.82  | 43   | 14830    | 6.12  | ug/l  | 90     |
| 27) cis-1,2-Dichloroethene | 6.83  | 96   | 109642   | 13.39 | ug/l  | 91     |
| 44) Trichloroethene        | 8.84  | 130  | 179078   | 19.93 | ug/l  | 98     |
| 64) Tetrachloroethene      | 10.63 | 164  | 275051   | 35.60 | ug/l  | 99     |

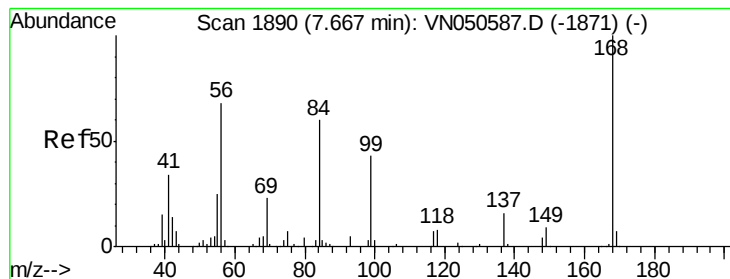
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081418\  
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961-IW-22(17)

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Quant Title : SW846 8260  
QLast Update : Tue Aug 14 08:07:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA\_N

ClientSampleId :

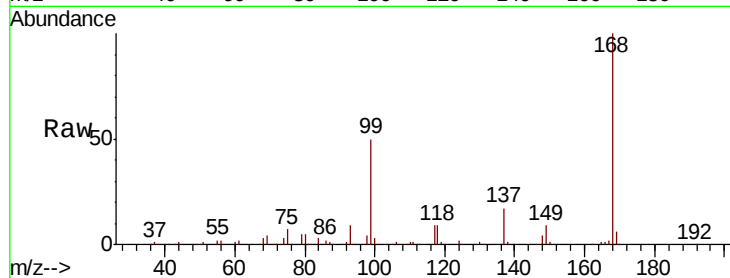
961-IW-22(17)

Tot Ion:168 Resp: 625342

Ion Ratio Lower Upper

168 100

99 50.0 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

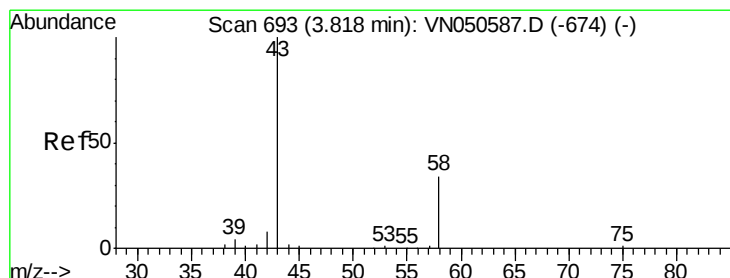
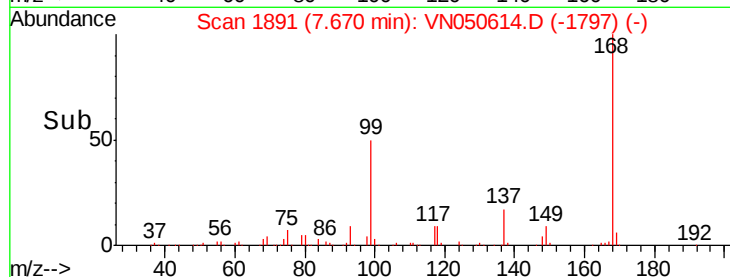
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 6.12 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050614.D

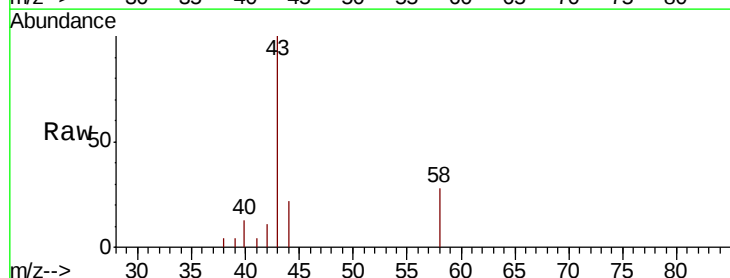
Acq: 14 Aug 2018 20:08

Tgt Ion: 43 Resp: 14830

Ion Ratio Lower Upper

43 100

58 28.4 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

5000

4000

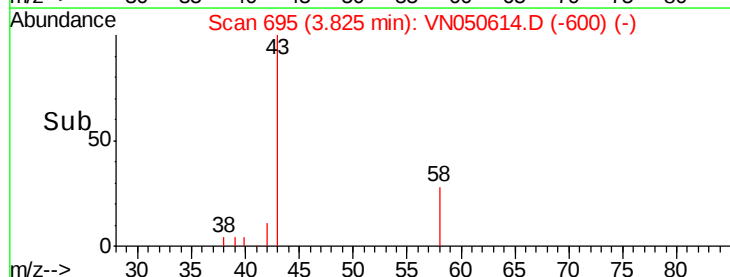
3000

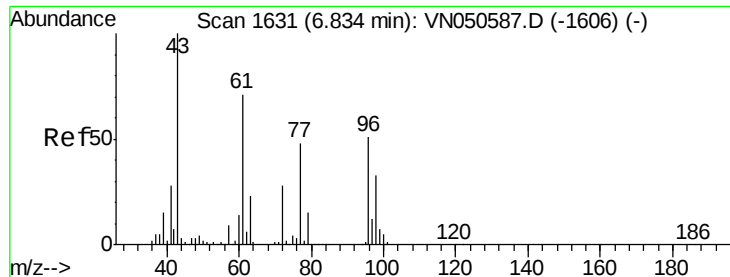
2000

1000

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 13.39 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA\_N

ClientSampleId :

961-IW-22(17)

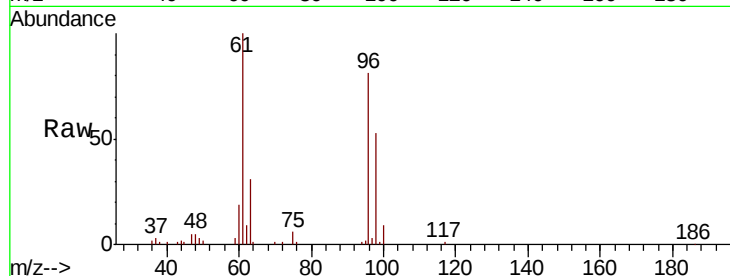
Tot Ion: 96 Resp: 109642

Ion Ratio Lower Upper

96 100

61 123.9 0.0 278.2

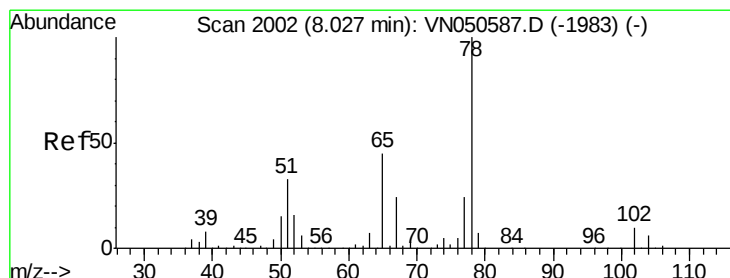
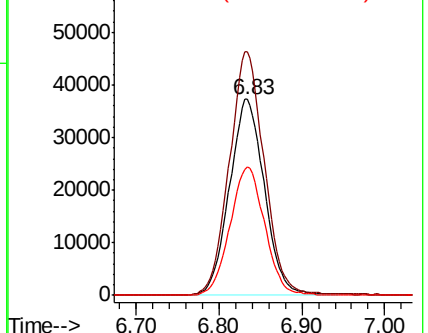
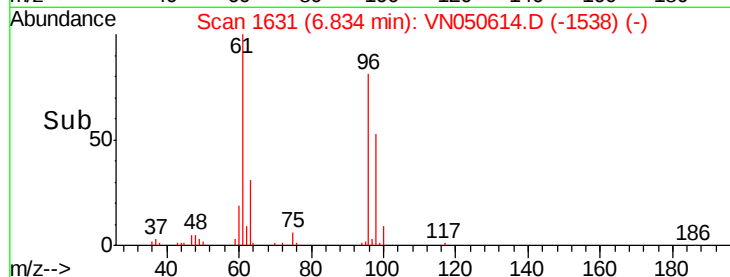
98 64.9 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.53 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050614.D

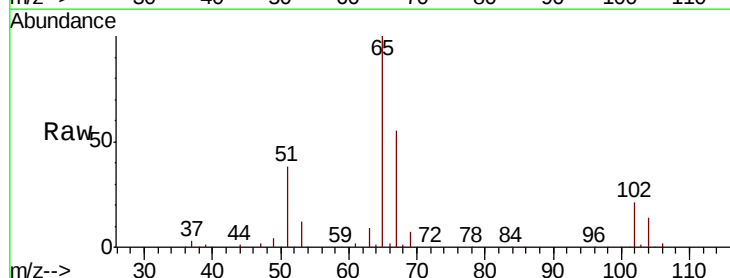
Acq: 14 Aug 2018 20:08

Tgt Ion: 65 Resp: 414054

Ion Ratio Lower Upper

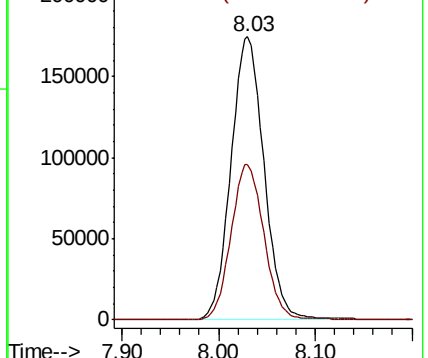
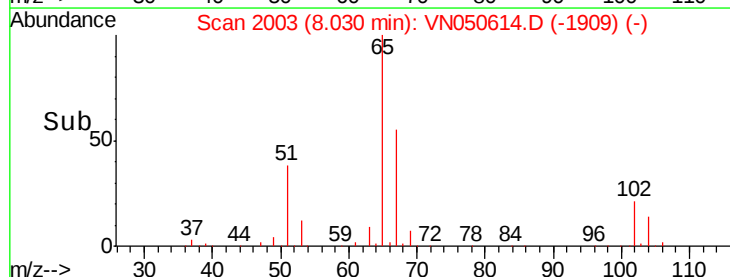
65 100

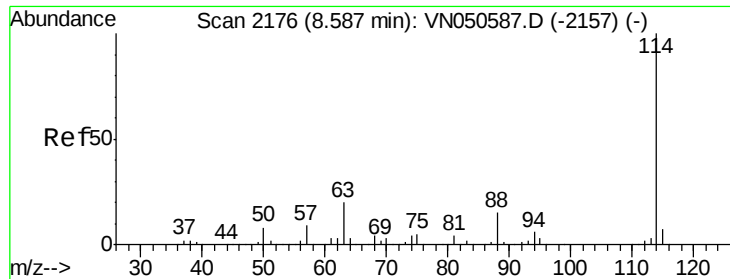
67 54.9 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

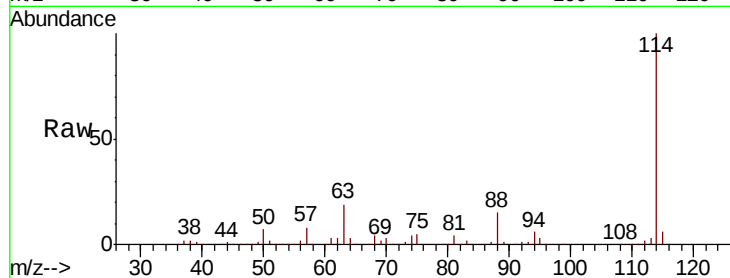




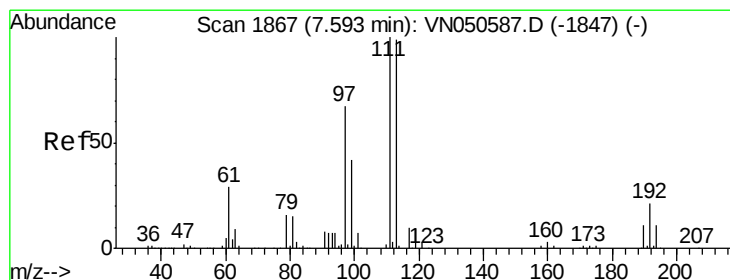
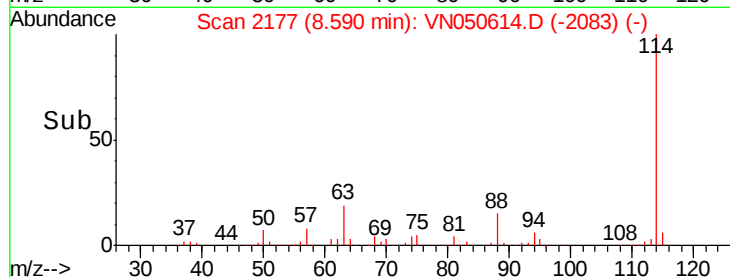
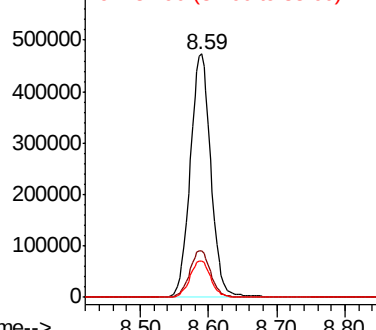
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VN050614.D  
 Acq: 14 Aug 2018 20:08

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 961-IW-22(17)

Tot Ion:114 Resp: 990321  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 40.0  
 88 15.1 0.0 30.8

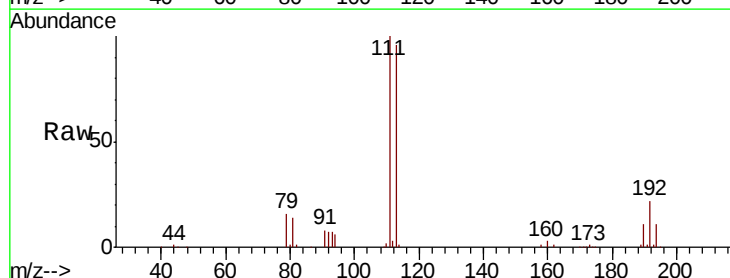


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

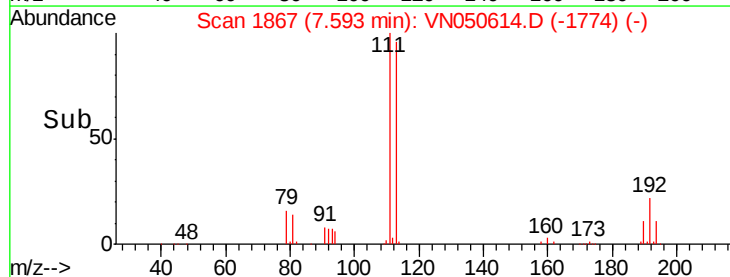
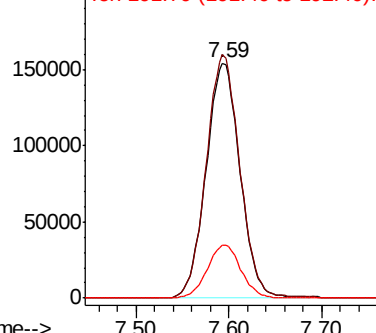


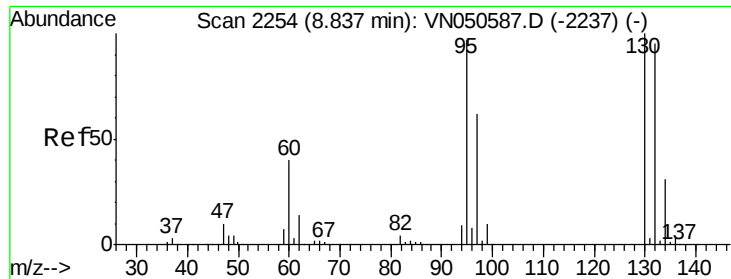
#35  
 Dibromofluoromethane  
 Concen: 49.63 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN050614.D  
 Acq: 14 Aug 2018 20:08

Tgt Ion:113 Resp: 392424  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 81.0 121.6  
 192 22.4 17.6 26.4



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

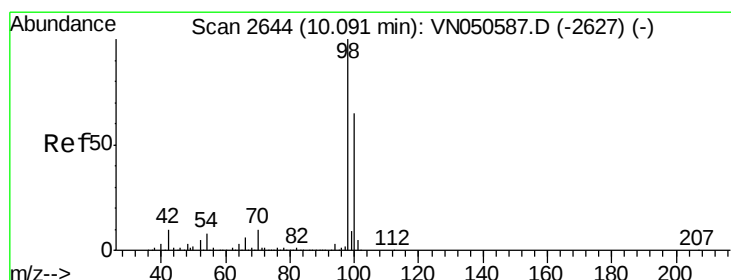
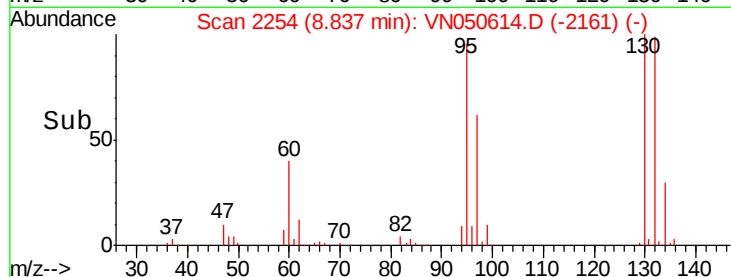
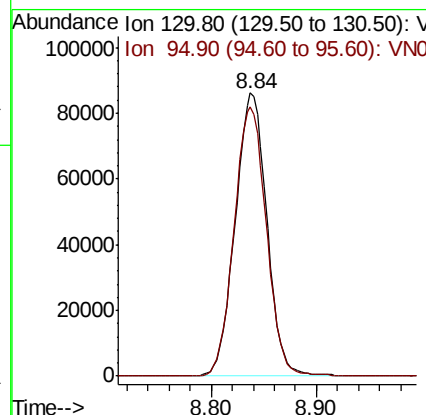
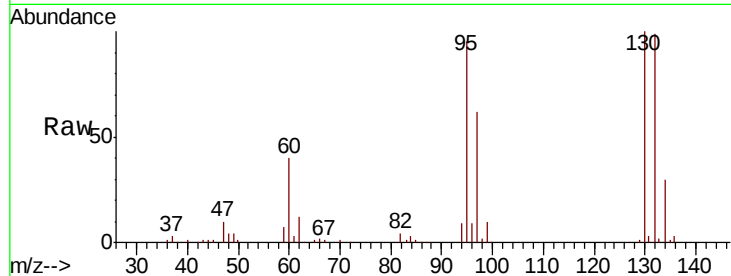




#44  
 Trichloroethene  
 Concen: 19.93 ug/l  
 RT: 8.84 min Scan# 2254  
 Delta R.T. -0.00 min  
 Lab File: VN050614.D  
 Acq: 14 Aug 2018 20:08

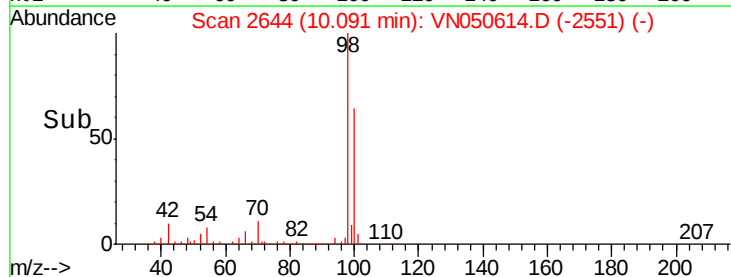
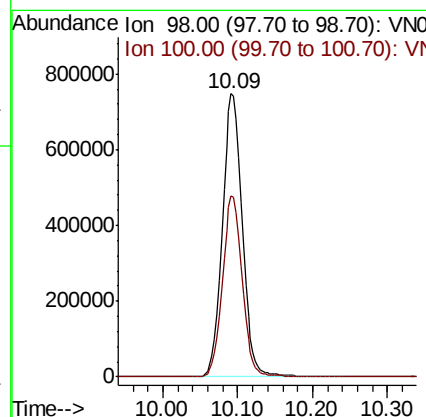
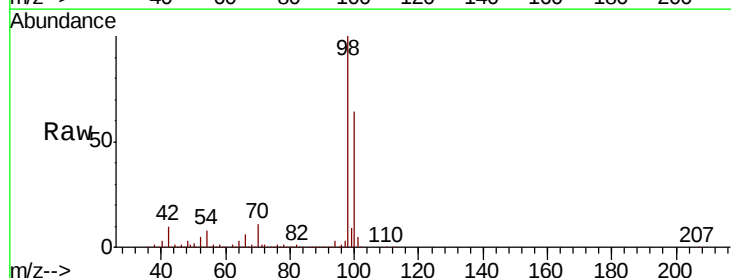
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 961-IW-22(17)

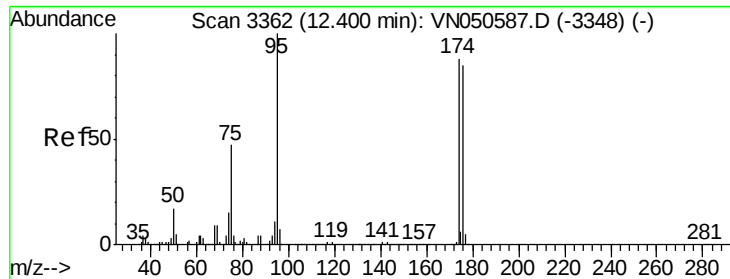
Tot Ion:130 Resp: 179078  
 Ion Ratio Lower Upper  
 130 100  
 95 95.3 0.0 193.8



#50  
 Toluene-d8  
 Concen: 46.33 ug/l  
 RT: 10.09 min Scan# 2644  
 Delta R.T. -0.00 min  
 Lab File: VN050614.D  
 Acq: 14 Aug 2018 20:08

Tgt Ion: 98 Resp: 1378457  
 Ion Ratio Lower Upper  
 98 100  
 100 63.3 51.8 77.8





#62

4-Bromofluorobenzene

Concen: 36.64 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA\_N

ClientSampled :

961-IW-22(17)

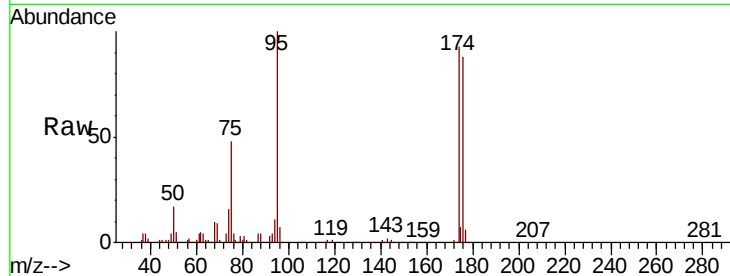
Tot Ion: 95 Resp: 360178

Ion Ratio Lower Upper

95 100

174 92.2 0.0 177.8

176 87.1 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050587.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050587.D (-3348) (-)

12.40

250000

200000

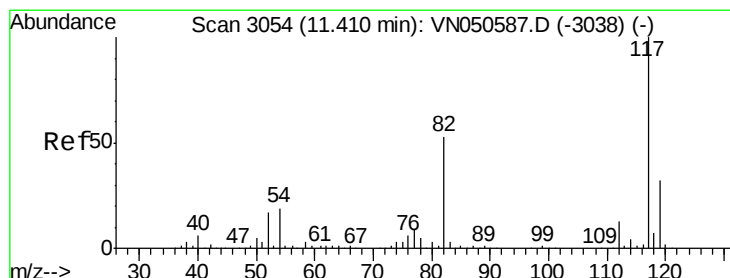
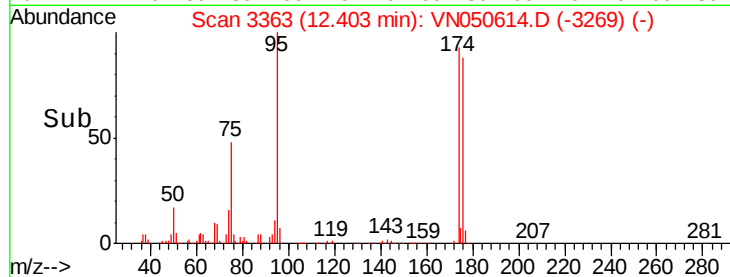
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

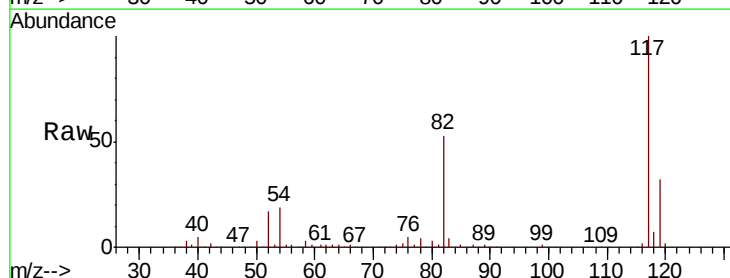
Tgt Ion: 117 Resp: 832026

Ion Ratio Lower Upper

117 100

82 53.3 42.4 63.6

119 32.2 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050587.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050587.D (-3038) (-)

11.41

600000

500000

400000

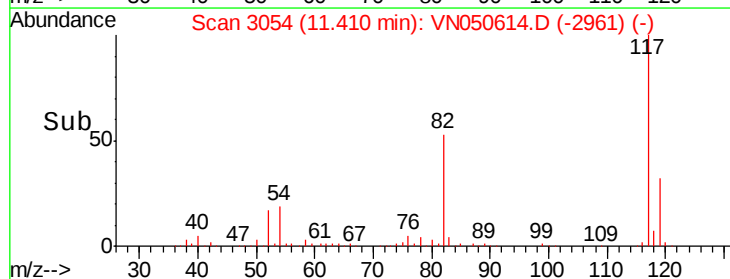
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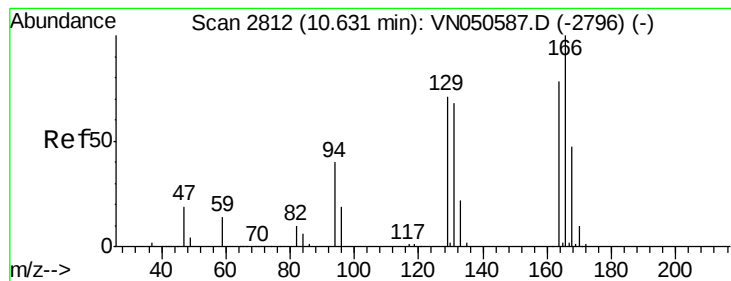
200000

100000

0

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 35.60 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA\_N

ClientSampleId :

961-IW-22(17)

Tot Ion:164 Resp: 275051

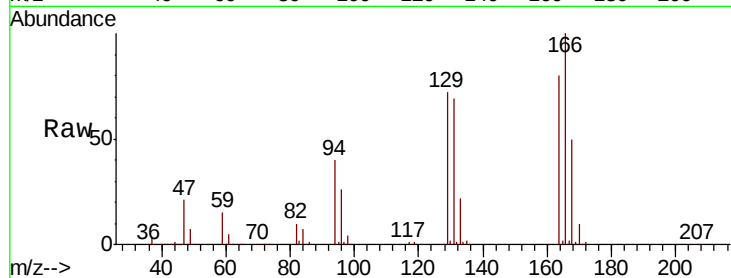
Ion Ratio Lower Upper

164 100

166 125.6 102.1 153.1

129 90.4 72.7 109.1

131 86.2 69.9 104.9



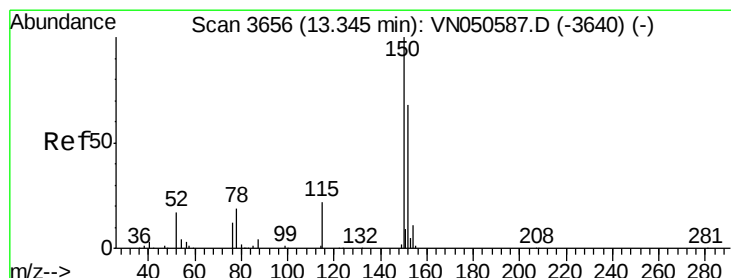
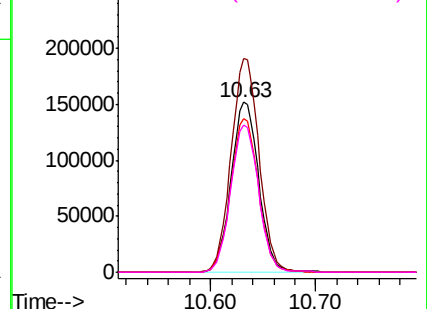
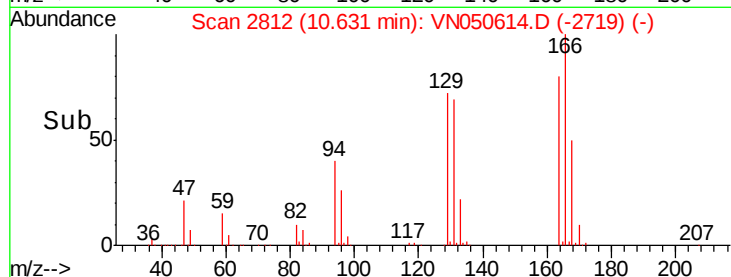
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

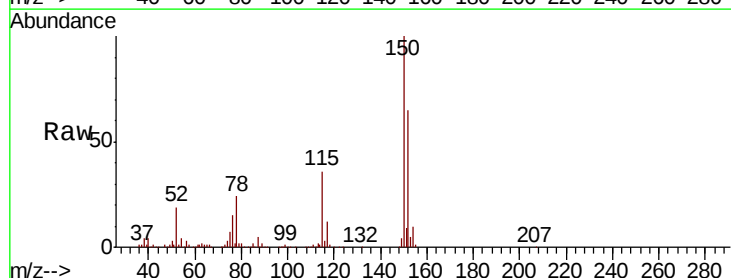
Tgt Ion:152 Resp: 289192

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.2

150 155.1 0.0 347.8



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

