

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\  
 Data File : VN053509.D  
 Acq On : 22 Jan 2019 10:44  
 Operator : JC/SP  
 Sample : VN0122MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0122MBL01

Quant Time: Jan 23 02:51:36 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      | 7.66  | 168  | 822941   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 1269520  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1169023  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 495849   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 404956   | 49.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.58%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 375278   | 51.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.60% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1559633  | 50.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.80% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 519021   | 48.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.60%  |          |

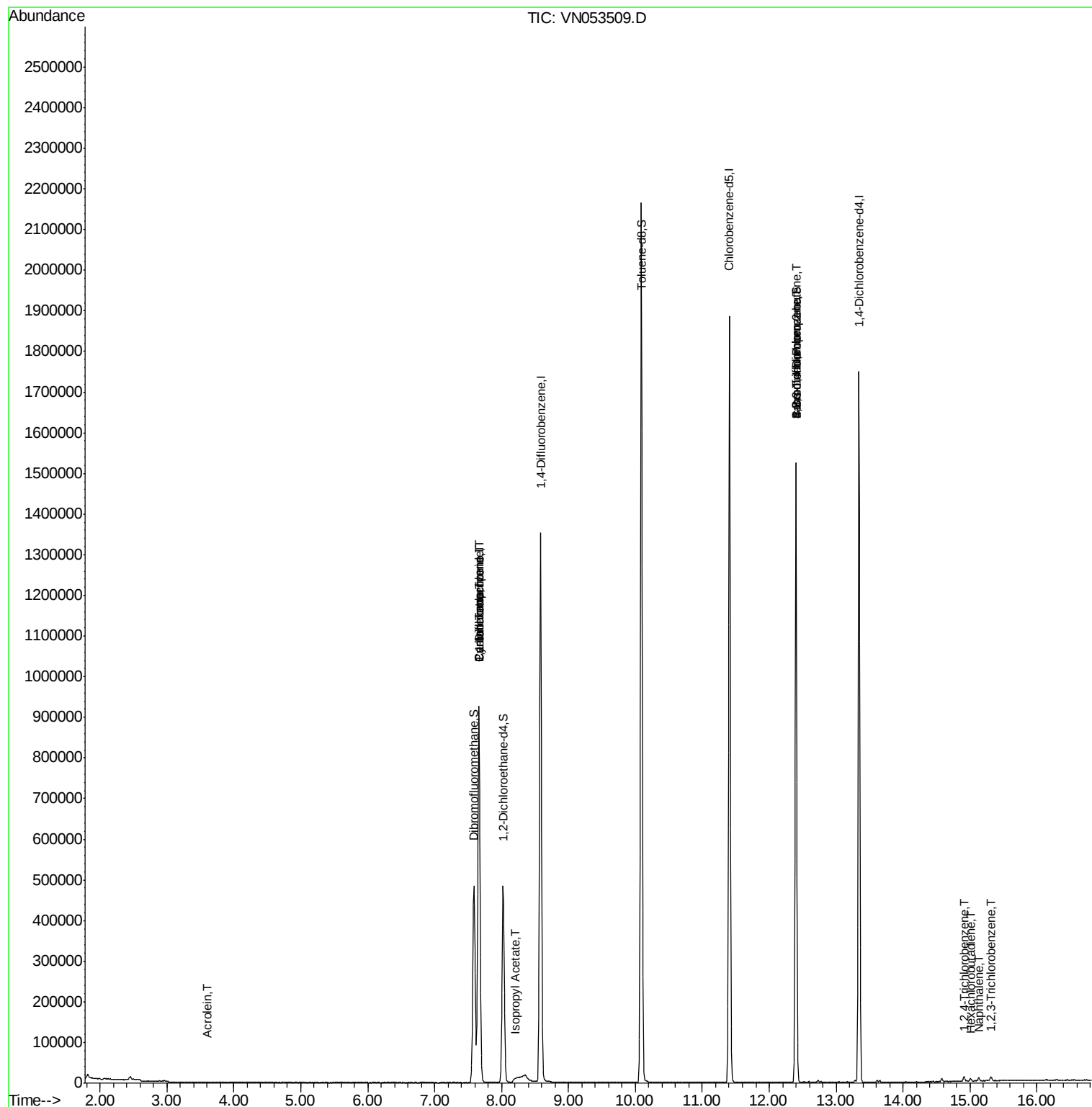
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acrolein                   | 3.61  | 56   | 439      | 23.251 | ug/l # | 22     |
| 31) Cyclohexane                | 7.66  | 56   | 12948    | 0.685  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 51606    | 4.464  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 71337    | 6.517  | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.20  | 43   | 6165     | 0.515  | ug/l # | 51     |
| 71) Bromoform                  | 12.40 | 173  | 3883     | 0.655  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 244717   | 37.451 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 244717   | 92.510 | ug/l # | 15     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 4230     | 3.351  | ug/l   | 96     |
| 94) Hexachlorobutadiene        | 15.00 | 225  | 1969     | 0.408  | ug/l   | 98     |
| 95) Naphthalene                | 15.13 | 128  | 9180     | 4.644  | ug/l # | 94     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 5066     | 4.838  | ug/l   | 95     |

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

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ALS Vial : 3 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Quant Time: Jan 23 02:51:36 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

Instrument :

MSVOA\_N

ClientSampleId :

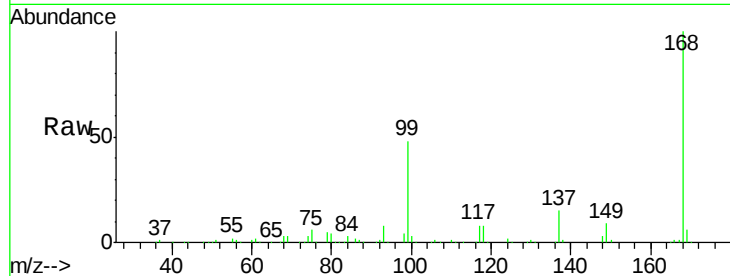
VN0122MBL01

Tot Ion:168 Resp: 822941

Ion Ratio Lower Upper

168 100

99 48.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053399.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN053399.D (-1812) (-)

7.66

400000

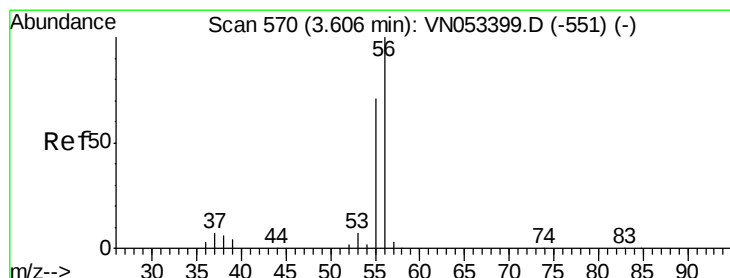
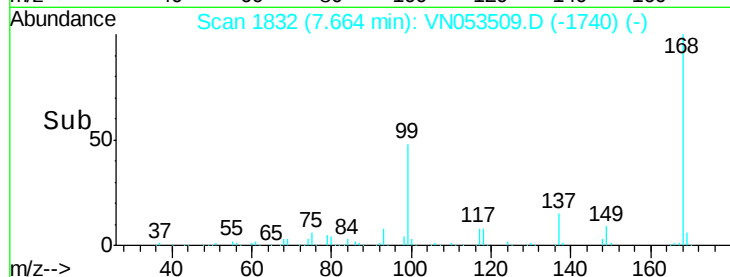
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 23.251 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053509.D

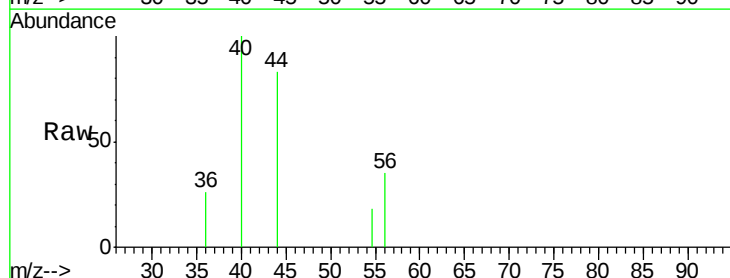
Acq: 22 Jan 2019 10:44

Tgt Ion: 56 Resp: 439

Ion Ratio Lower Upper

56 100

55 7.1 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN053399.D (-551) (-)

Ion 55.00 (54.70 to 55.70): VN053399.D (-551) (-)

3.61

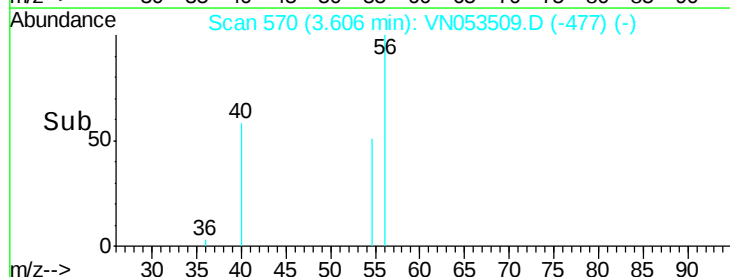
300

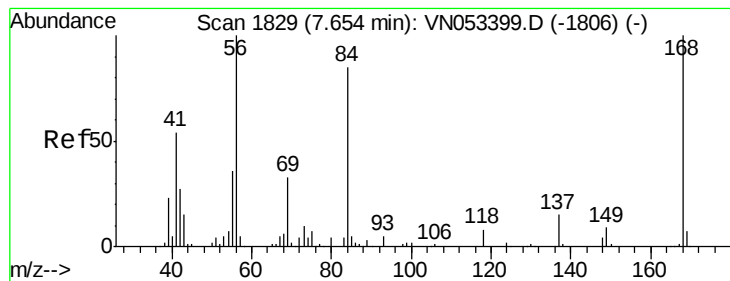
200

100

0

Time-->





#31

Cyclohexane

Concen: 0.685 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

Instrument :

MSVOA\_N

ClientSampled :

VN0122MBL01

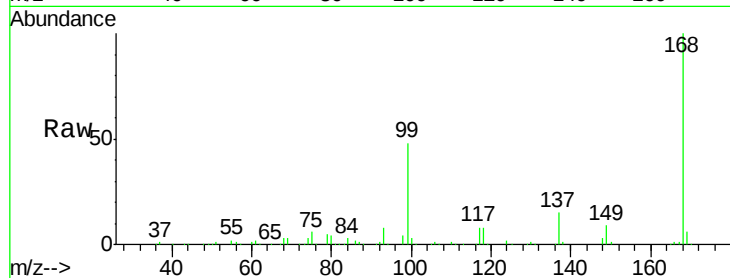
Tot Ion: 56 Resp: 12948

Ion Ratio Lower Upper

56 100

69 189.1 26.4 39.6#

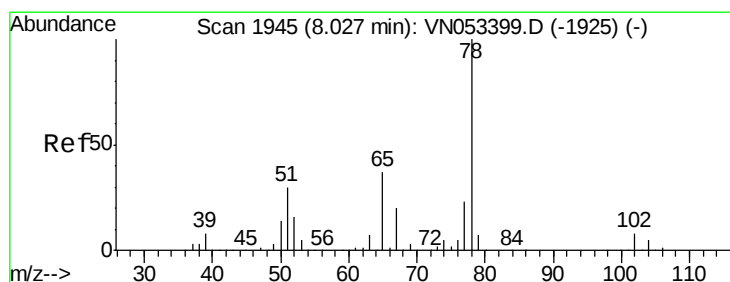
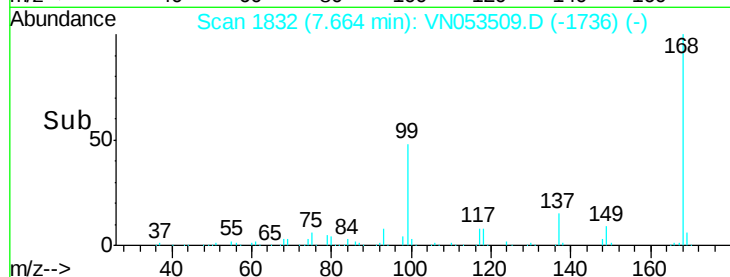
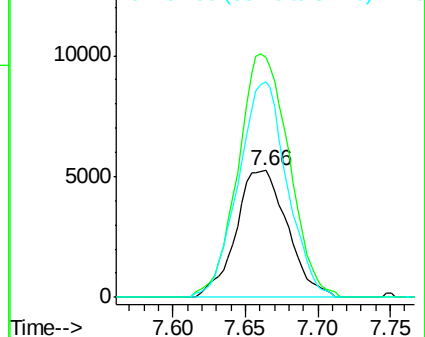
84 169.7 67.9 101.9#



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: Below ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN053509.D

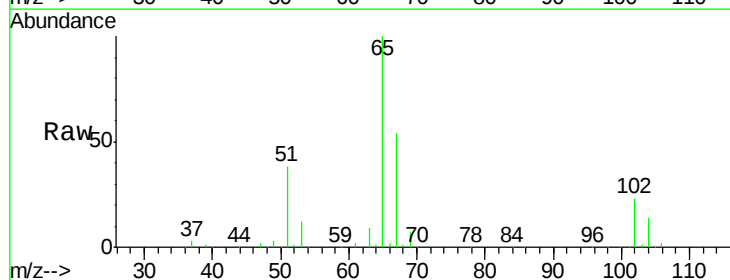
Acq: 22 Jan 2019 10:44

Tgt Ion: 65 Resp: 404956

Ion Ratio Lower Upper

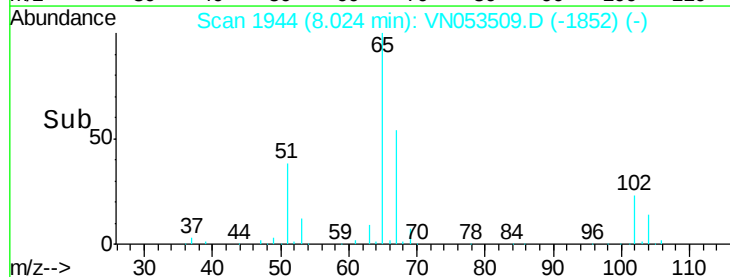
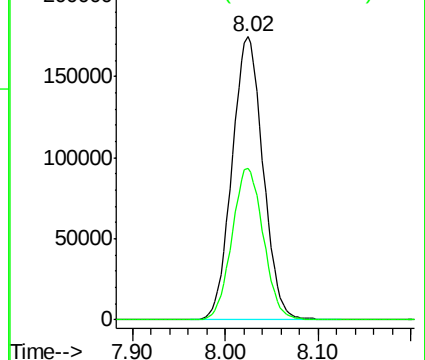
65 100

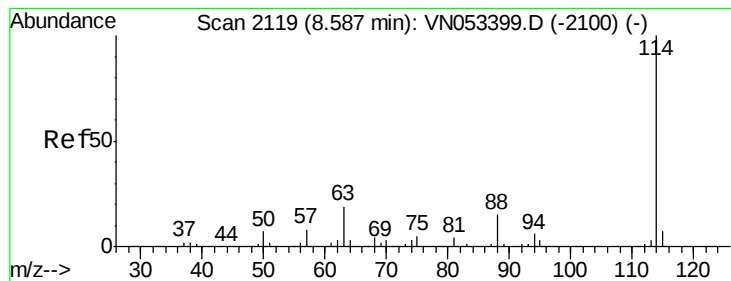
67 54.1 0.0 111.2



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: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

Instrument :

MSVOA\_N

ClientSampleId :

VN0122MBL01

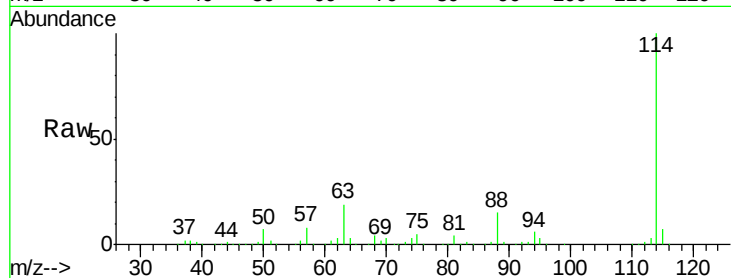
Tot Ion:114 Resp: 1269520

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

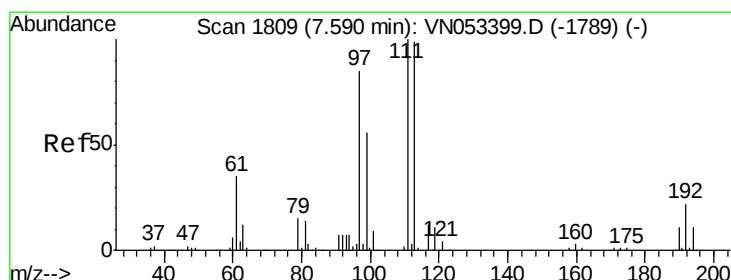
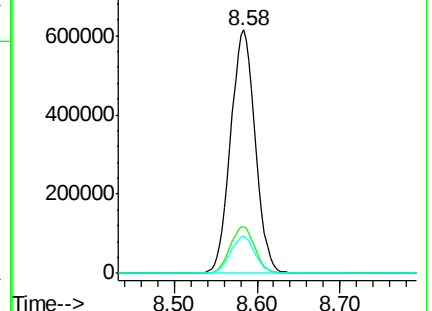
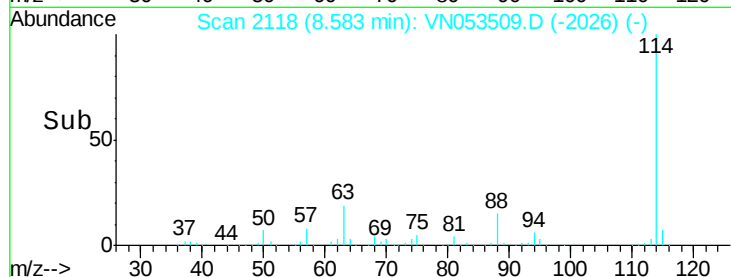
88 15.2 0.0 30.4



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: 50.000 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

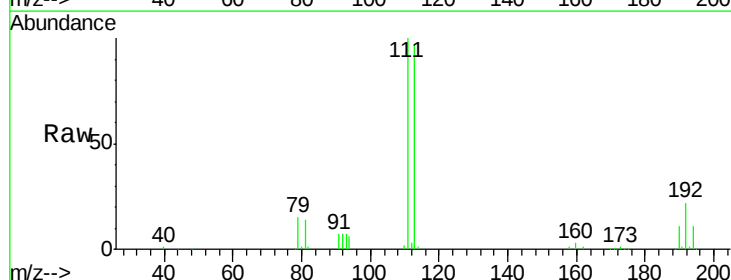
Tgt Ion:113 Resp: 375278

Ion Ratio Lower Upper

113 100

111 102.3 81.1 121.7

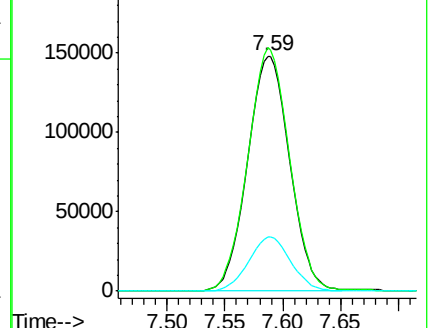
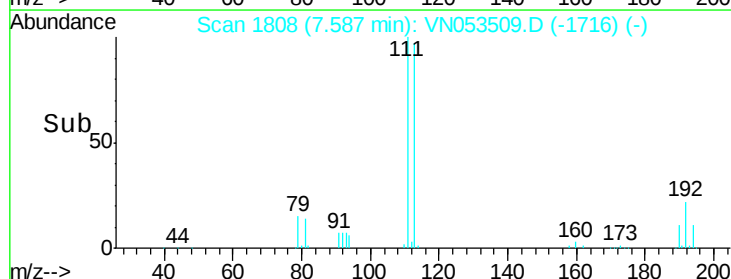
192 23.0 18.2 27.2

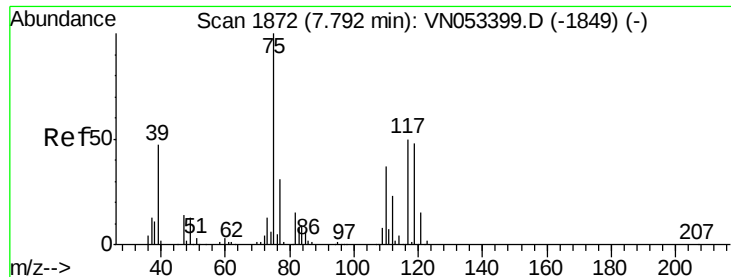


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

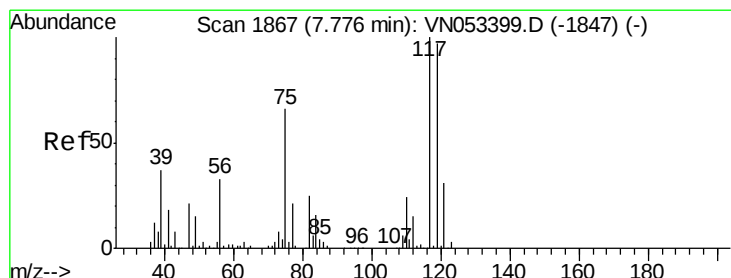
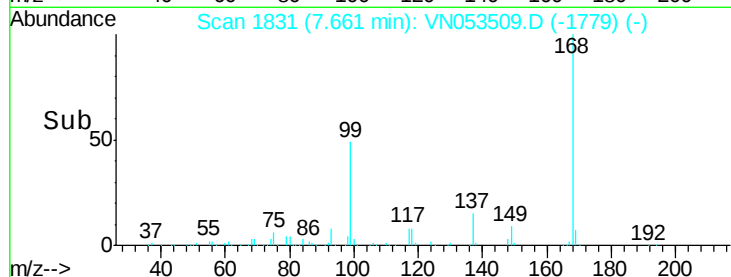
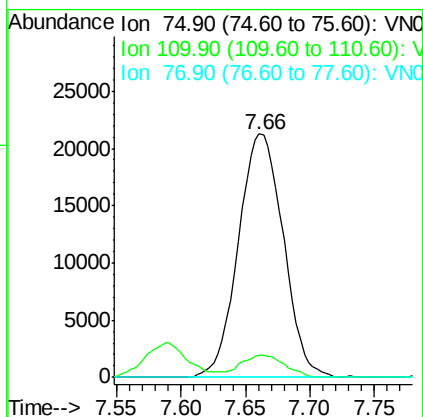
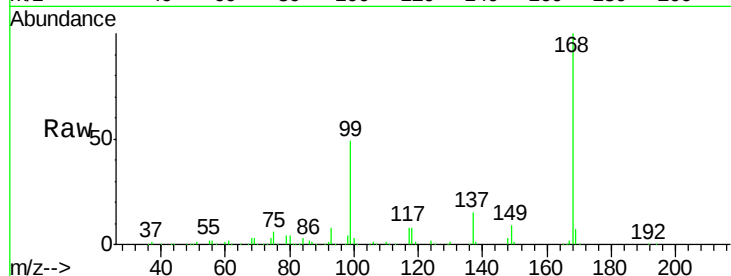




#36  
 1,1-Dichloropropene  
 Concen: 4.464 ug/l  
 RT: 7.66 min Scan# 1831  
 Delta R.T. -0.13 min  
 Lab File: VN053509.D  
 Acq: 22 Jan 2019 10:44

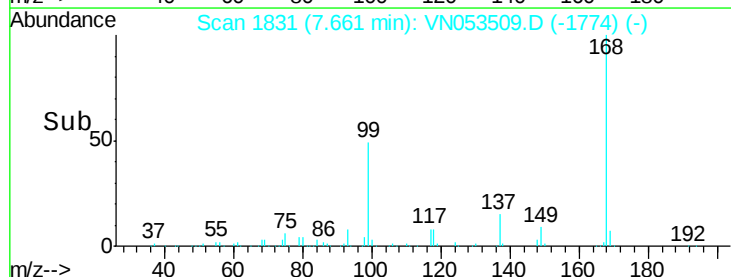
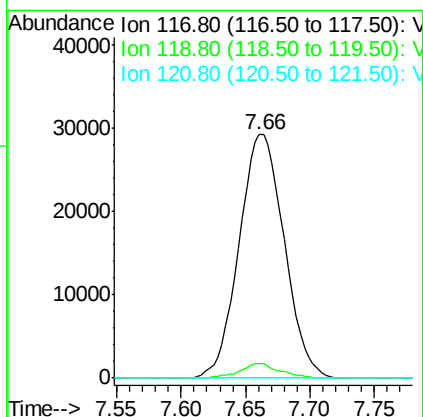
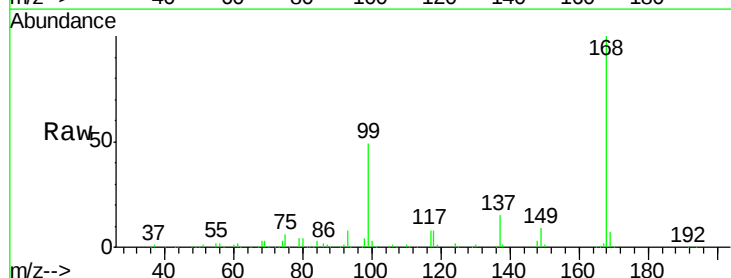
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0122MBL01

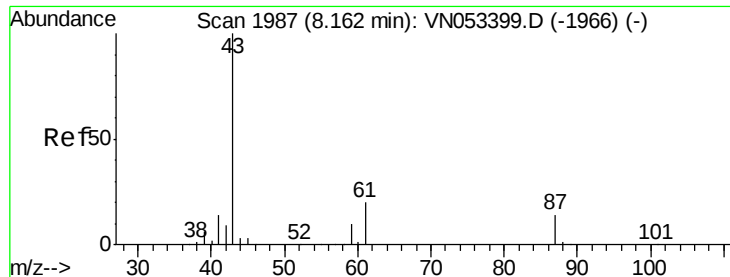
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 18.1  | 54.3# |
| 77      | 0.0   | 25.1  | 37.7# |



#38  
 Carbon Tetrachloride  
 Concen: 6.517 ug/l  
 RT: 7.66 min Scan# 1831  
 Delta R.T. -0.12 min  
 Lab File: VN053509.D  
 Acq: 22 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.2   | 77.2  | 115.8# |
| 121     | 0.0   | 24.6  | 37.0#  |





#43

Isopropyl Acetate

Concen: 0.515 ug/l

RT: 8.20 min Scan# 1999

Delta R.T. 0.04 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

Instrument :

MSVOA\_N

ClientSampleId :

VN0122MBL01

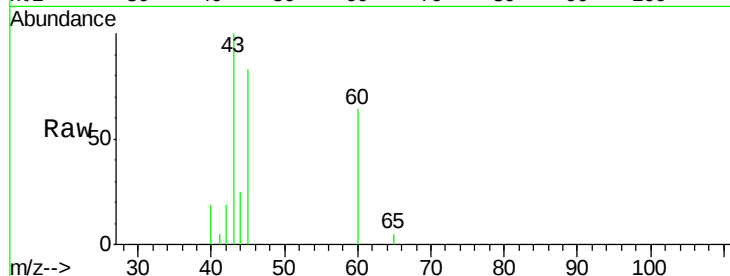
Tot Ion: 43 Resp: 6165

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

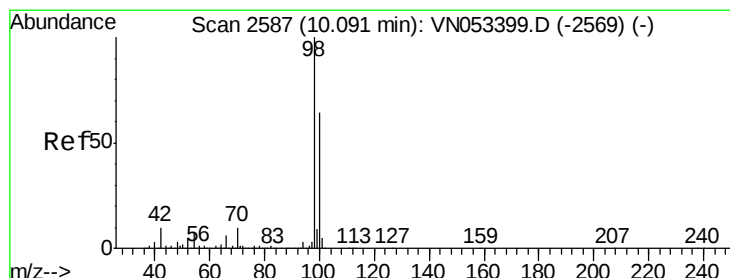
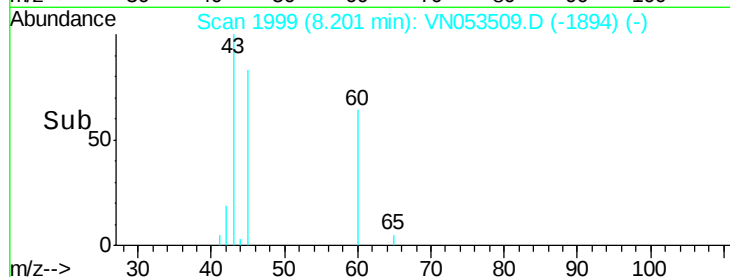
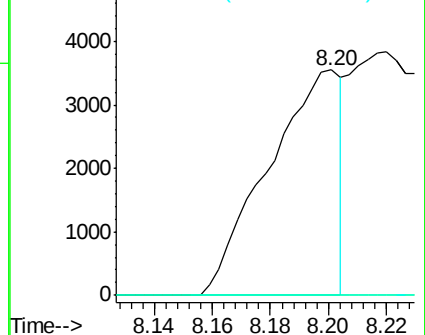
87 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN053399.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN053399.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN053399.D (-1966) (-)



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN053509.D

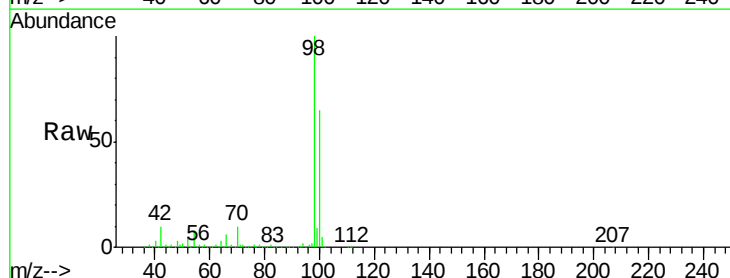
Acq: 22 Jan 2019 10:44

Tgt Ion: 98 Resp: 1559633

Ion Ratio Lower Upper

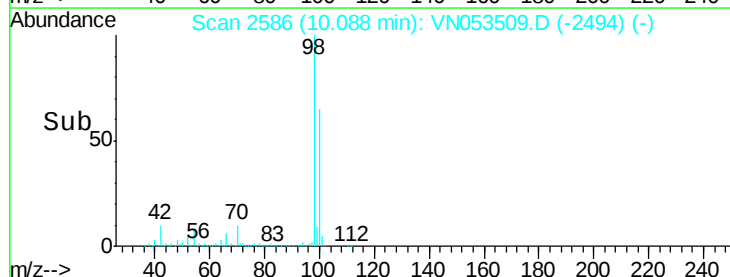
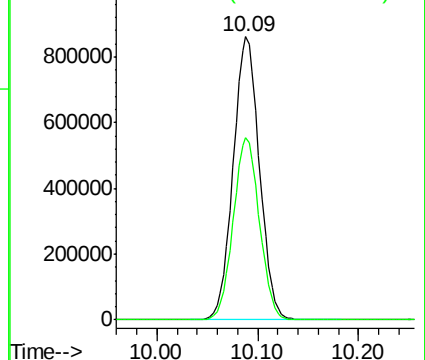
98 100

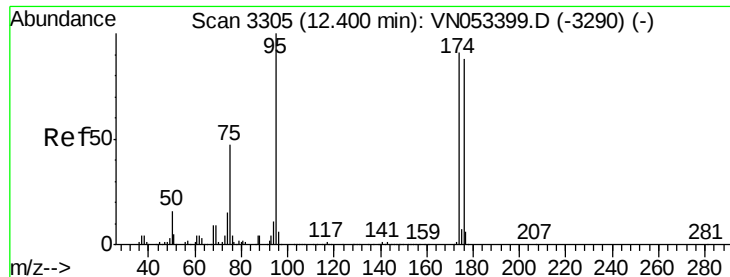
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053399.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN053399.D (-2569) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

Instrument :

MSVOA\_N

ClientSampleId :

VN0122MBL01

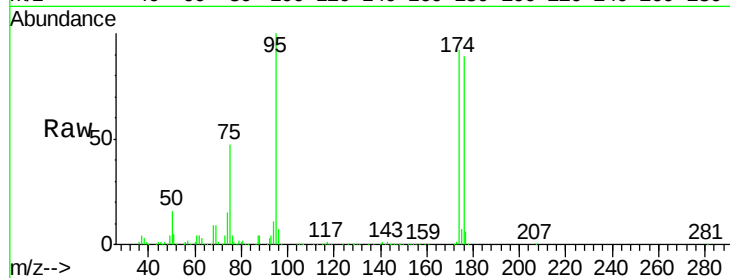
Tot Ion: 95 Resp: 519021

Ion Ratio Lower Upper

95 100

174 92.0 0.0 183.2

176 89.6 0.0 177.4

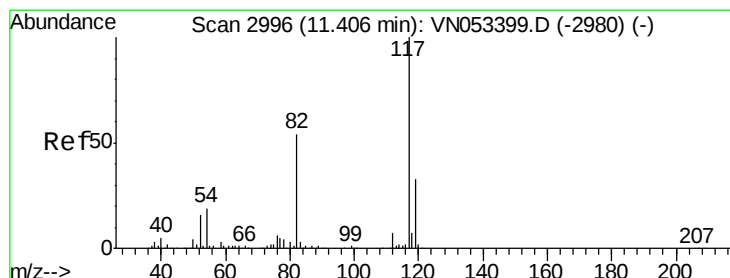
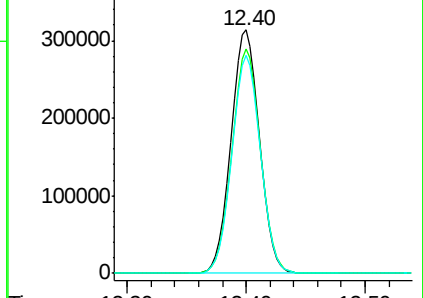
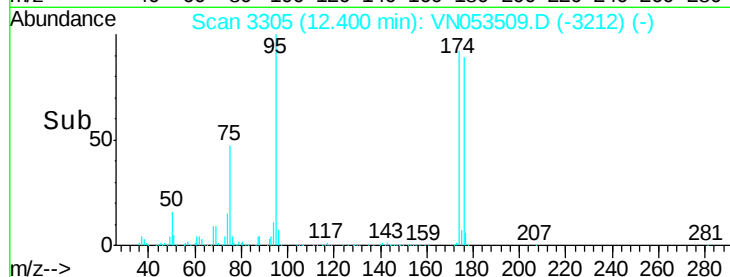


Abundance Ion 94.90 (94.60 to 95.60): VN053399.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN053399.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN053399.D (-3290) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

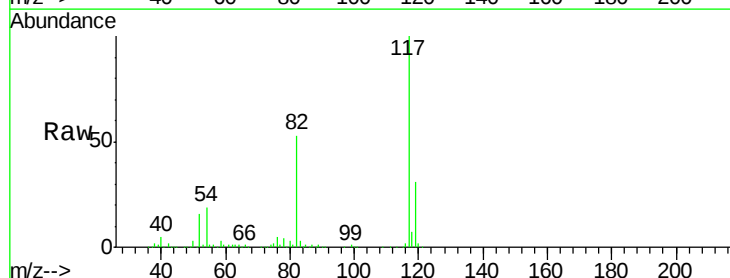
Tgt Ion: 117 Resp: 1169023

Ion Ratio Lower Upper

117 100

82 53.2 42.9 64.3

119 31.2 26.0 39.0

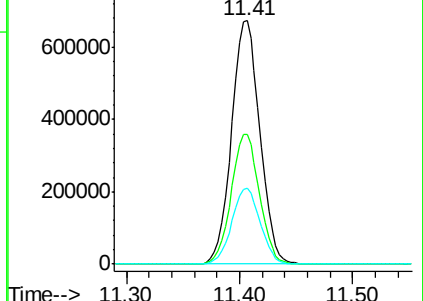
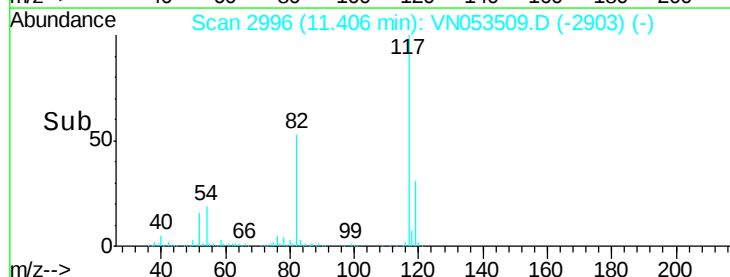


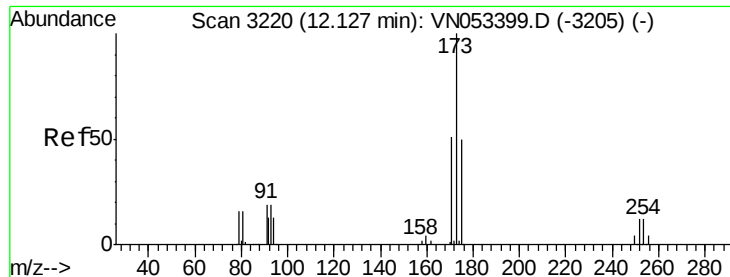
Abundance Ion 116.90 (116.60 to 117.60): VN053399.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053399.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053399.D (-2980) (-)

Time--> 11.30 11.40 11.50

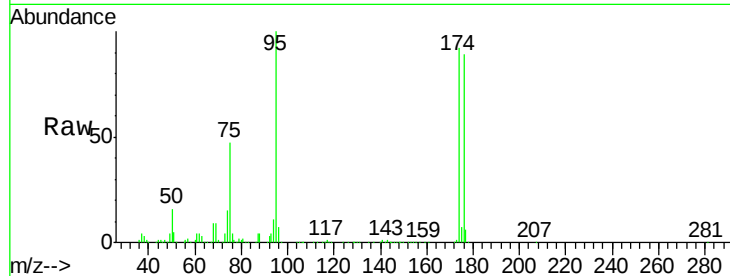




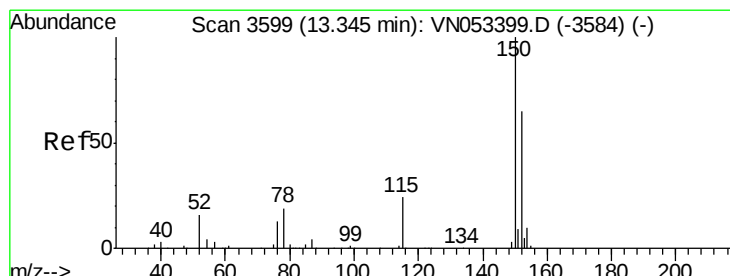
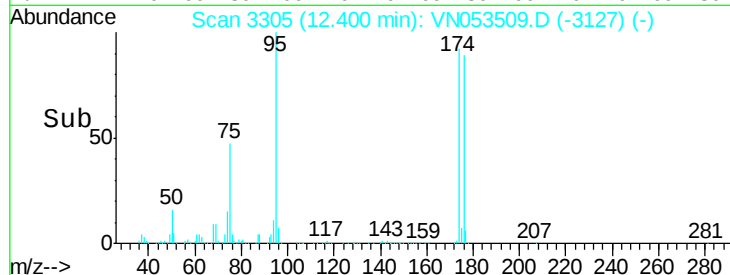
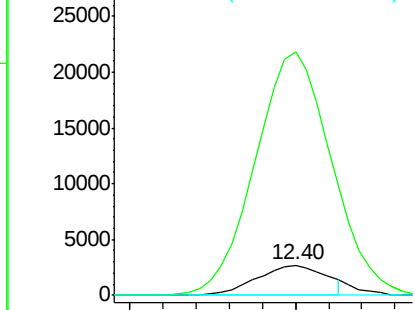
#71  
Bromoform  
Concen: 0.655 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN053509.D  
Acq: 22 Jan 2019 10:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0122MBL01

Tot Ion:173 Resp: 3883  
Ion Ratio Lower Upper  
173 100  
175 825.6 24.6 74.0#  
254 0.0 0.2 0.2#

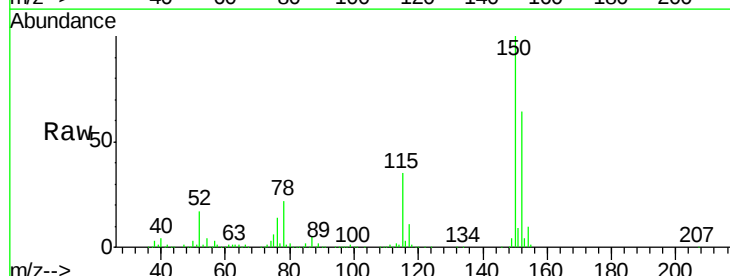


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

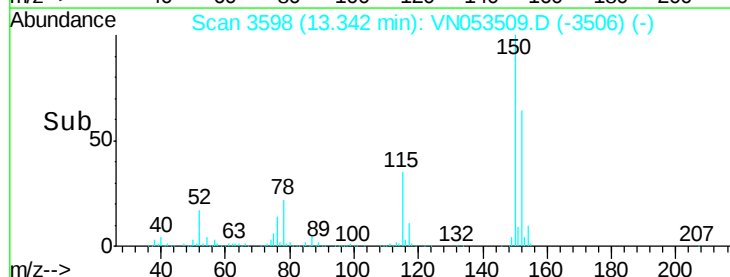
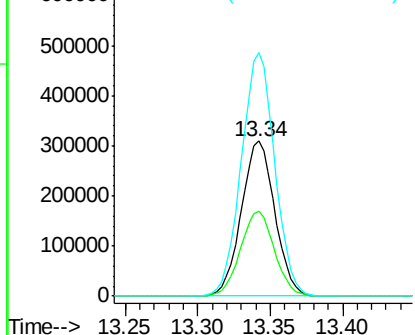


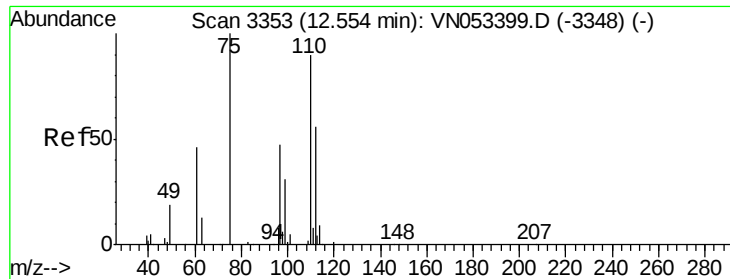
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN053509.D  
Acq: 22 Jan 2019 10:44

Tgt Ion:152 Resp: 495849  
Ion Ratio Lower Upper  
152 100  
115 55.4 27.8 83.4  
150 157.3 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: 37.451 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

Instrument :

MSVOA\_N

ClientSampleId :

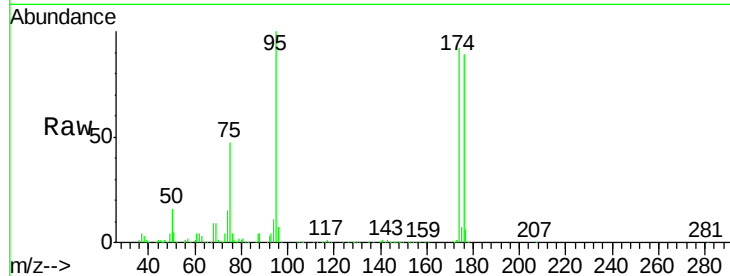
VN0122MBL01

Tot Ion: 75 Resp: 244717

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

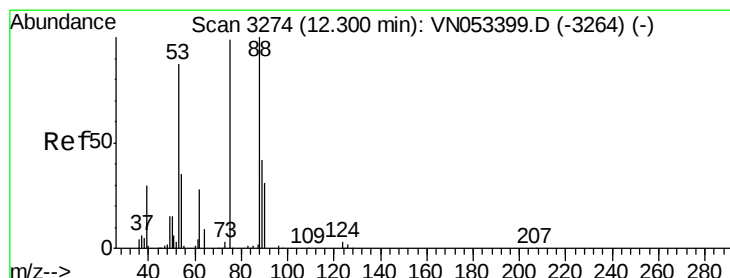
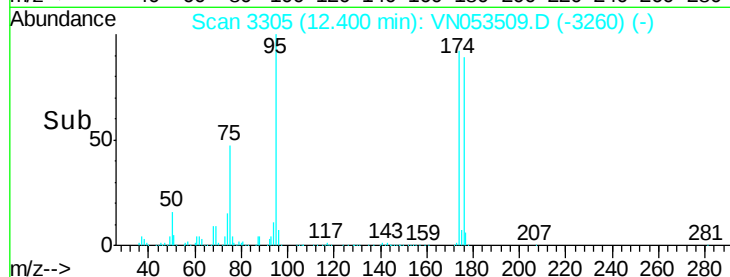
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 92.510 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

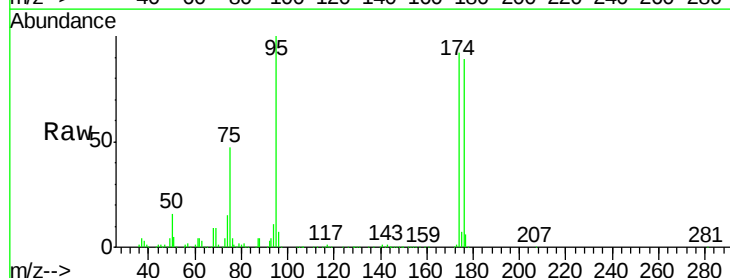
Tgt Ion: 75 Resp: 244717

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

200000

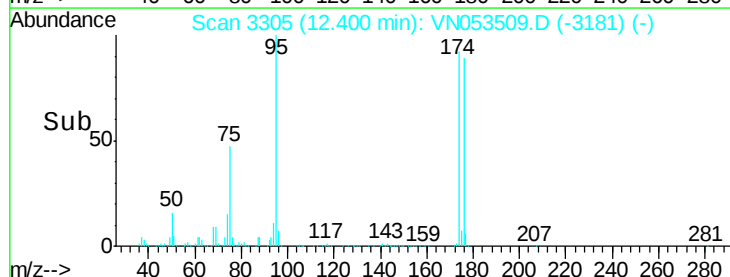
150000

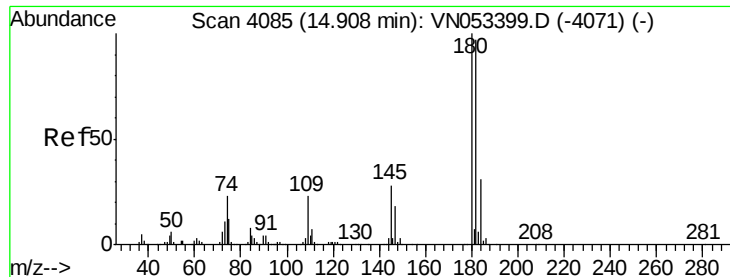
100000

50000

0

Time-->

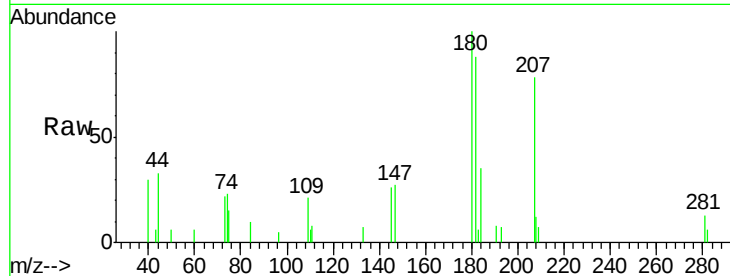




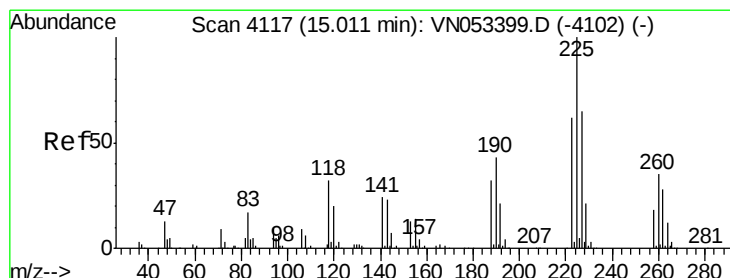
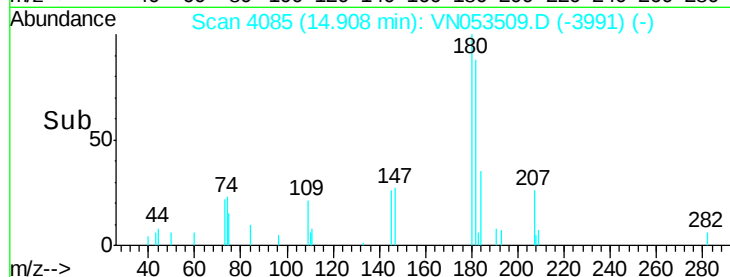
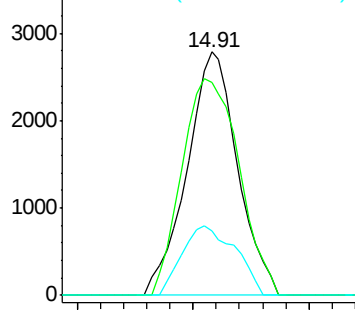
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.351 ug/l  
 RT: 14.91 min Scan# 4085  
 Delta R.T. 0.00 min  
 Lab File: VN053509.D  
 Acq: 22 Jan 2019 10:44

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0122MBL01

Tot Ion:180 Resp: 4230  
 Ion Ratio Lower Upper  
 180 100  
 182 100.6 48.1 144.3  
 145 29.9 13.9 41.6

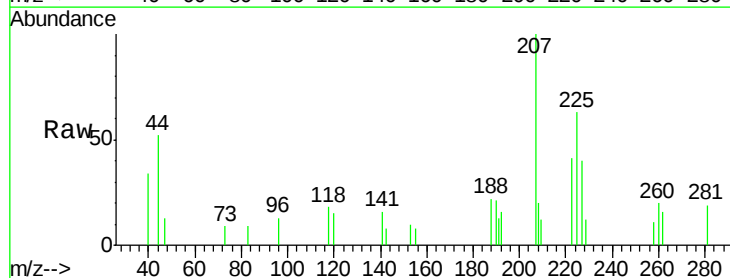


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

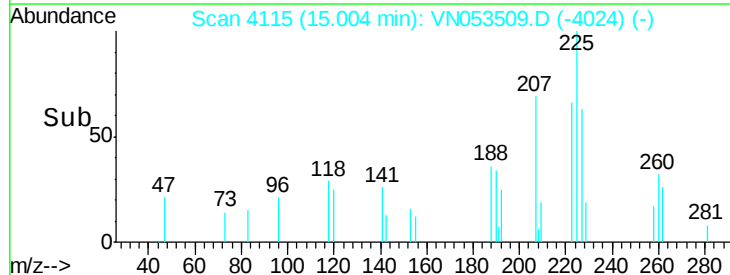
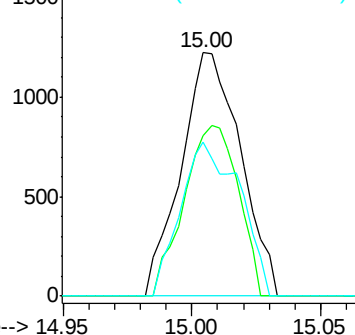


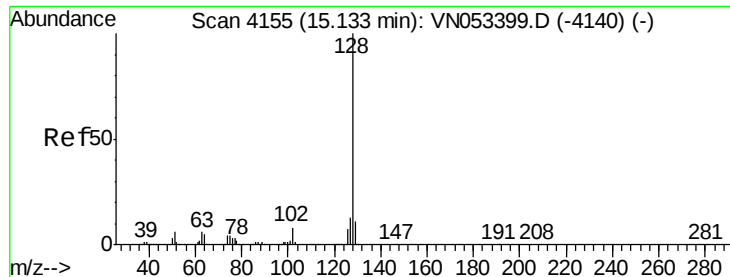
#94  
 Hexachlorobutadiene  
 Concen: 0.408 ug/l  
 RT: 15.00 min Scan# 4115  
 Delta R.T. -0.01 min  
 Lab File: VN053509.D  
 Acq: 22 Jan 2019 10:44

Tgt Ion:225 Resp: 1969  
 Ion Ratio Lower Upper  
 225 100  
 223 63.9 31.1 93.2  
 227 63.1 32.0 96.2



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: 4.644 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

Instrument :

MSVOA\_N

ClientSampleId :

VN0122MBL01

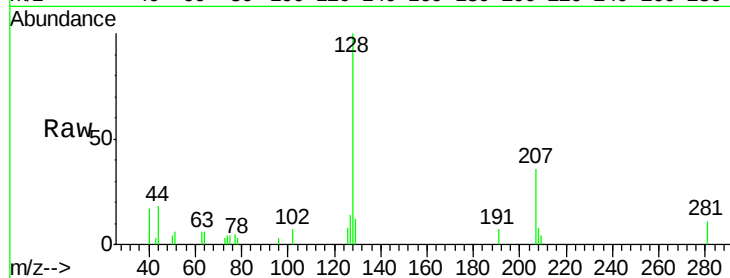
Tot Ion:128 Resp: 9180

Ion Ratio Lower Upper

128 100

127 11.0 10.3 15.5

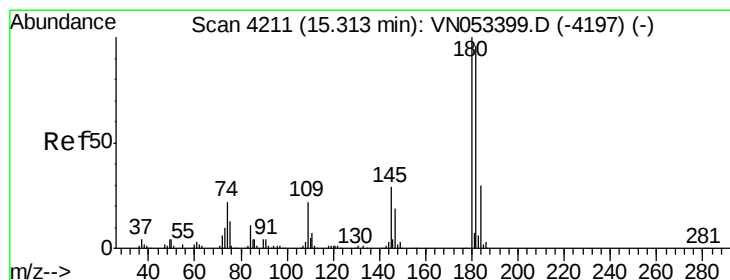
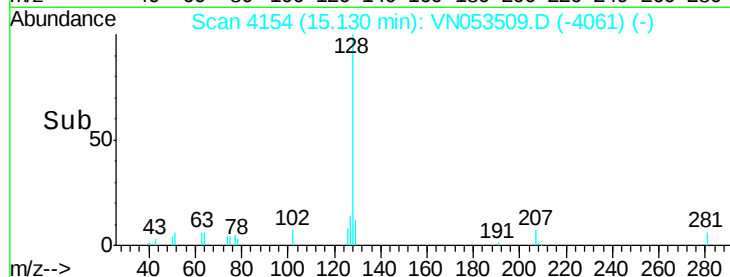
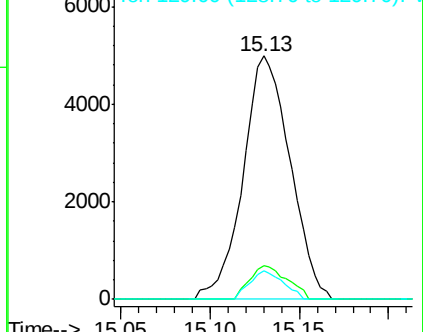
129 8.4 8.6 13.0#



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: 4.838 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053509.D

Acq: 22 Jan 2019 10:44

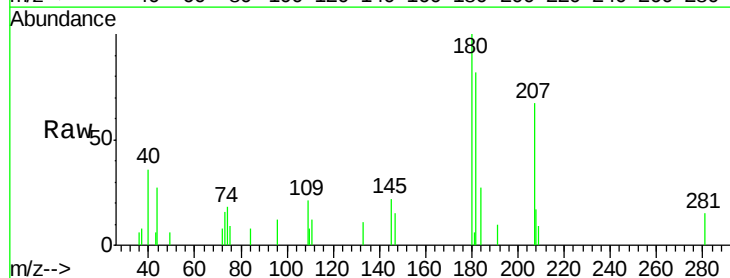
Tgt Ion:180 Resp: 5066

Ion Ratio Lower Upper

180 100

182 90.2 47.9 143.8

145 27.3 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

