

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\  
 Data File : VN059219.D  
 Acq On : 14 Nov 2019 9:50  
 Operator : JC/SP  
 Sample : VN1114MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1114MBL01

Quant Time: Nov 15 06:25:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 450727   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 700764   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 602760   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 202647   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 284386   | 51.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.66% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 222515   | 53.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.36% |          |
| 50) Toluene-d8              | 10.08 | 98   | 844971   | 51.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.54% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 253520   | 42.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 85.32%  |          |

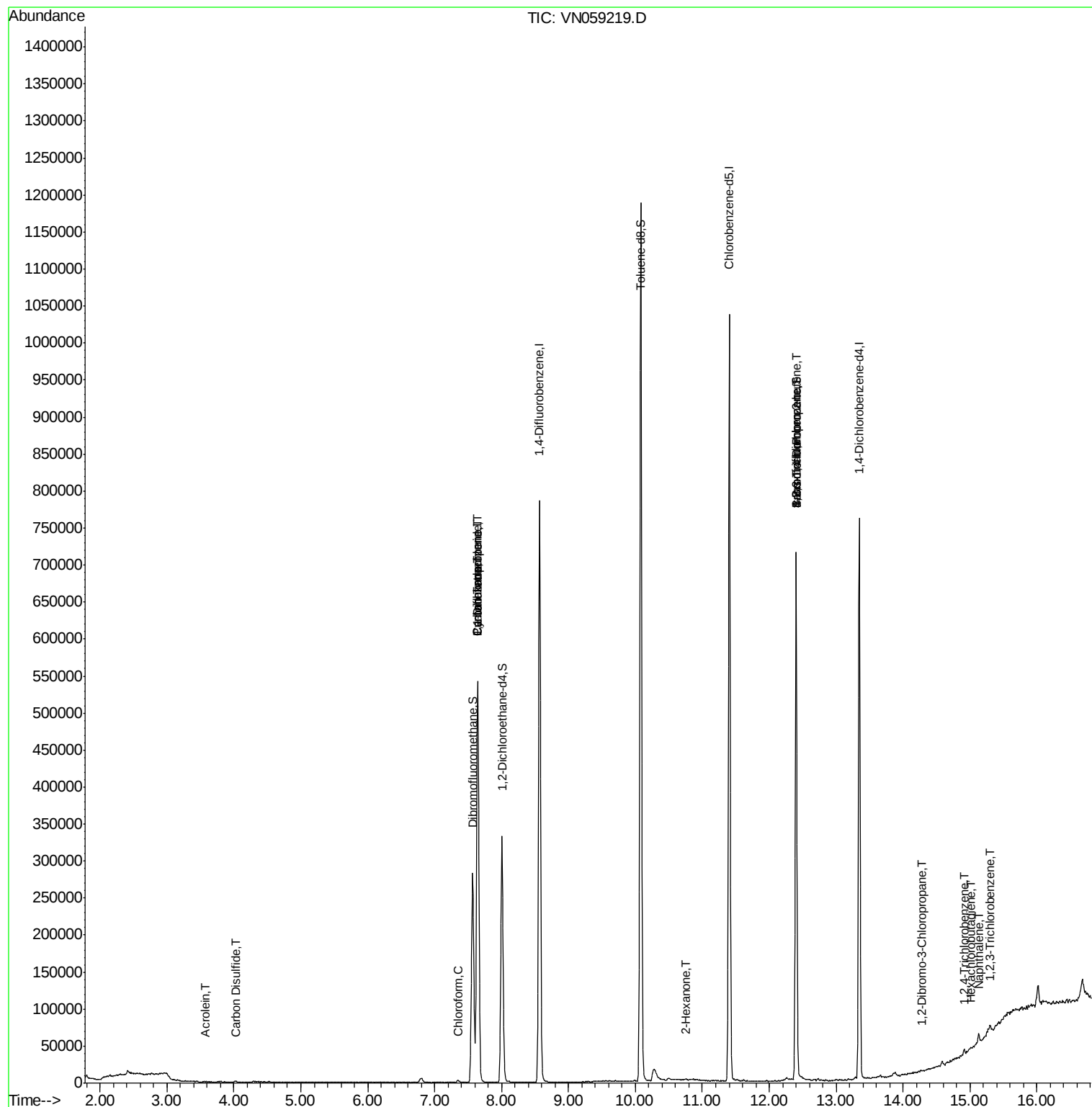
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acrolein                   | 3.58  | 56   | 171      | 0.314  | ug/l # | 73     |
| 17) Carbon Disulfide           | 4.03  | 76   | 2889     | 0.221  | ug/l # | 75     |
| 30) Chloroform                 | 7.36  | 83   | 3457     | 0.396  | ug/l   | 98     |
| 31) Cyclohexane                | 7.64  | 56   | 9140     | 1.060  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 34122    | 5.209  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 41928    | 6.431  | ug/l # | 17     |
| 59) 2-Hexanone                 | 10.75 | 43   | 1589     | 0.315  | ug/l   | 72     |
| 71) Bromoform                  | 12.41 | 173  | 1604     | 0.468  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 127764   | 27.693 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 127764   | 73.145 | ug/l # | 13     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 716      | 0.741  | ug/l # | 3      |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 2192     | 3.590  | ug/l   | 93     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 484      | 0.225  | ug/l # | 52     |
| 95) Naphthalene                | 15.13 | 128  | 9215     | 3.869  | ug/l # | 90     |
| 96) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 3583     | 1.025  | ug/l   | 86     |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN111419\  
Data File : VN059219.D  
Acq On : 14 Nov 2019 9:50  
Operator : JC/SP  
Sample : VN1114MBL01  
Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1114MBL01

Quant Time: Nov 15 06:25:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 07 04:00:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

Instrument :

MSVOA\_N

ClientSampleId :

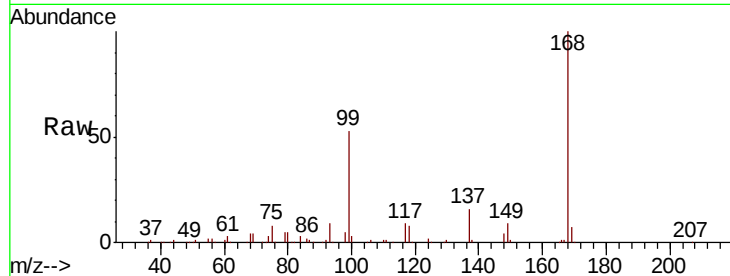
VN1114MBL01

Tot Ion:168 Resp: 450727

Ion Ratio Lower Upper

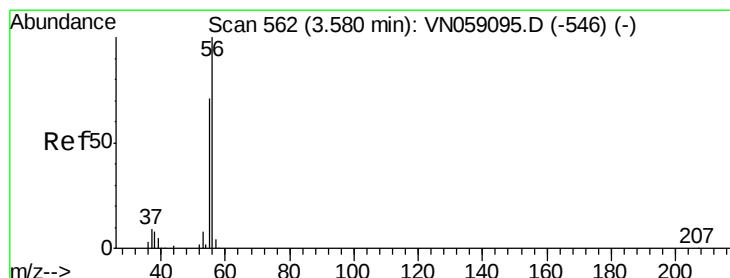
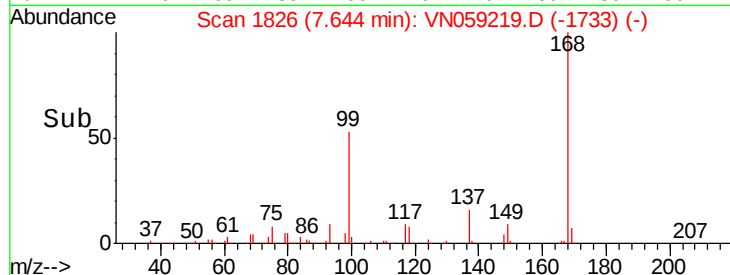
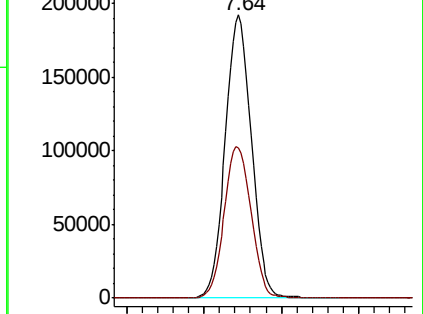
168 100

99 53.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 0.314 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059219.D

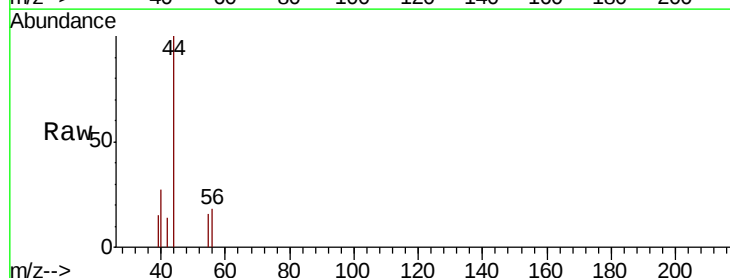
Acq: 14 Nov 2019 9:50

Tgt Ion: 56 Resp: 171

Ion Ratio Lower Upper

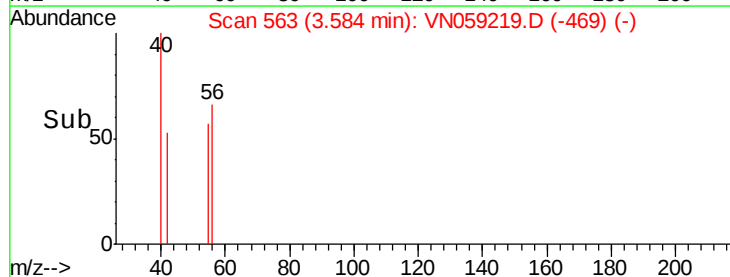
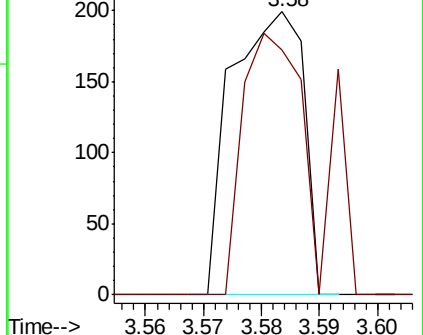
56 100

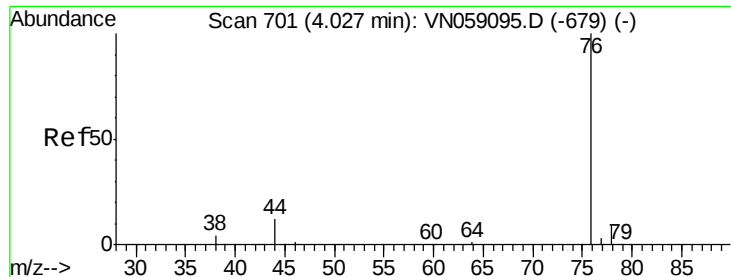
55 92.4 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

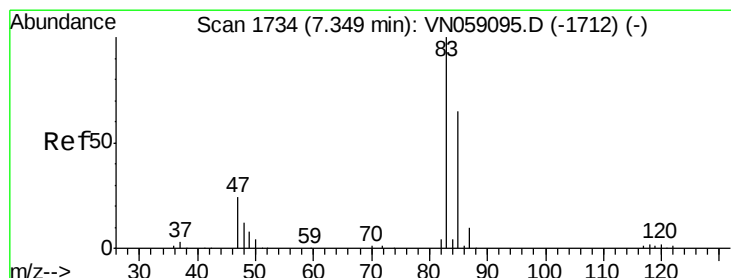
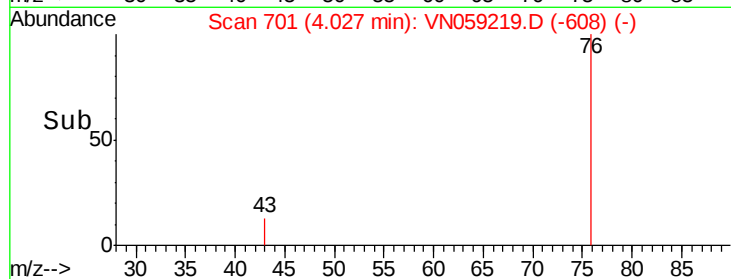
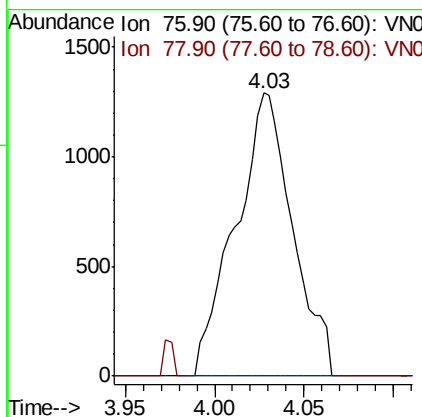
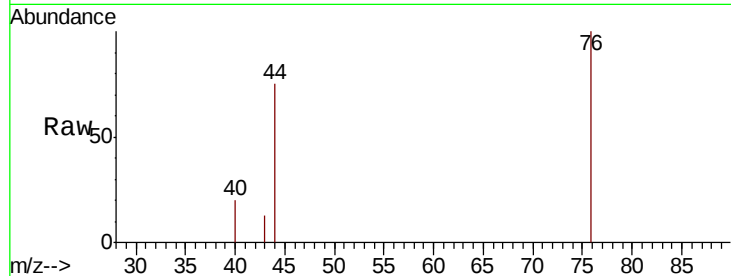




#17  
Carbon Disulfide  
Concen: 0.221 ug/l  
RT: 4.03 min Scan# 701  
Delta R.T. -0.00 min  
Lab File: VN059219.D  
Acq: 14 Nov 2019 9:50

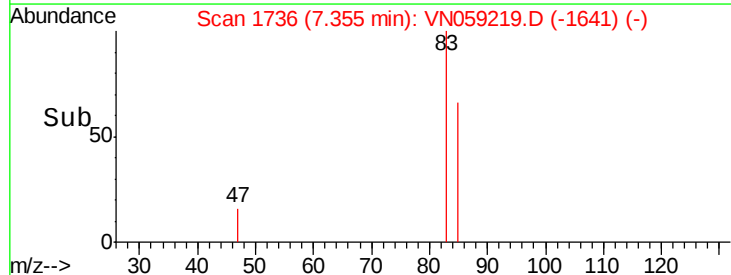
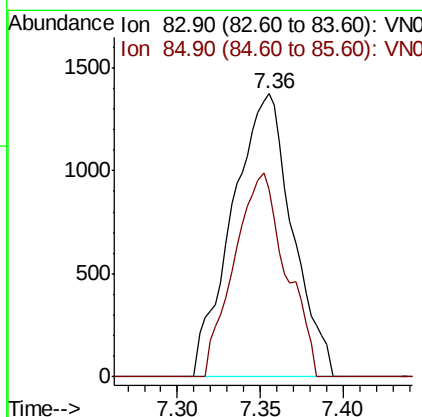
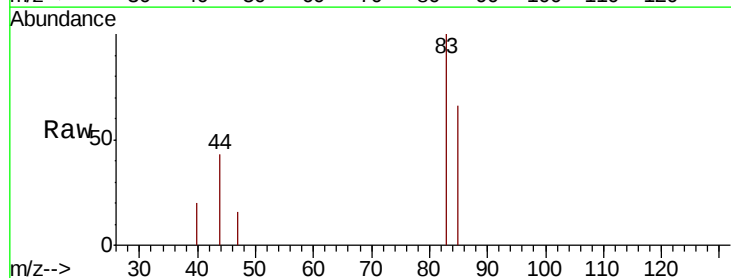
Instrument :  
MSVOA\_N  
ClientSampled :  
VN1114MBL01

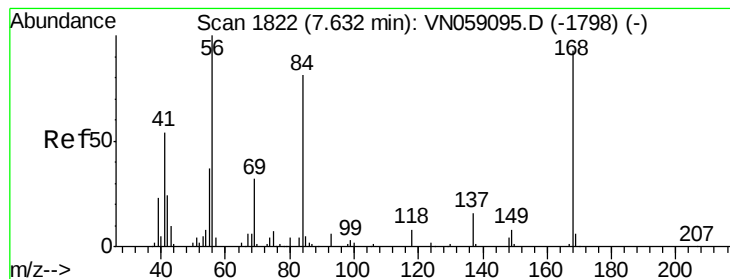
Tot Ion: 76 Resp: 2889  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#30  
Chloroform  
Concen: 0.396 ug/l  
RT: 7.36 min Scan# 1736  
Delta R.T. 0.01 min  
Lab File: VN059219.D  
Acq: 14 Nov 2019 9:50

Tgt Ion: 83 Resp: 3457  
Ion Ratio Lower Upper  
83 100  
85 66.1 51.8 77.8





#31

Cyclohexane

Concen: 1.060 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

Instrument :

MSVOA\_N

ClientSampleId :

VN1114MBL01

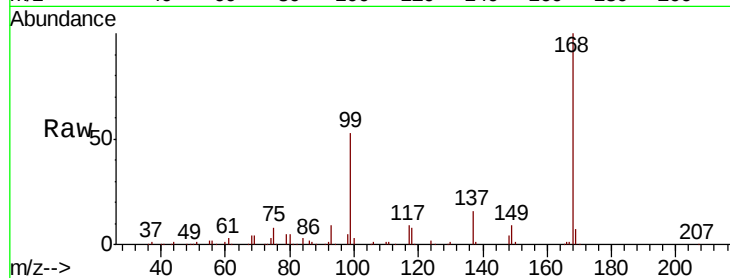
Tot Ion: 56 Resp: 9140

Ion Ratio Lower Upper

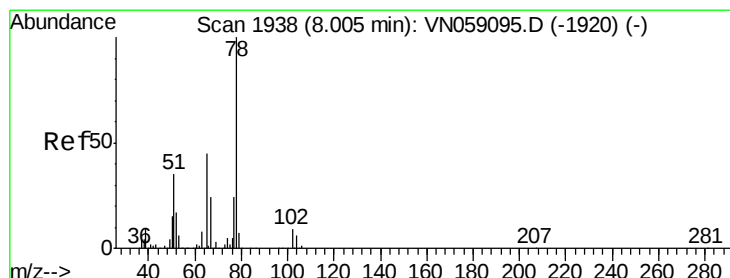
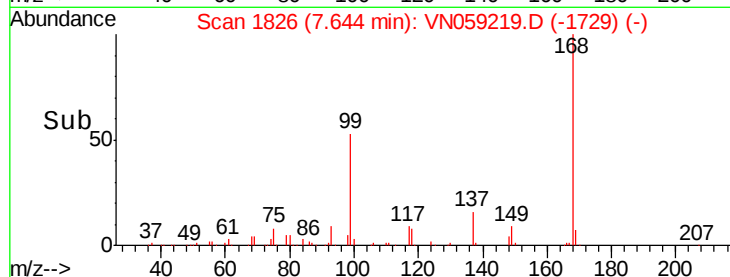
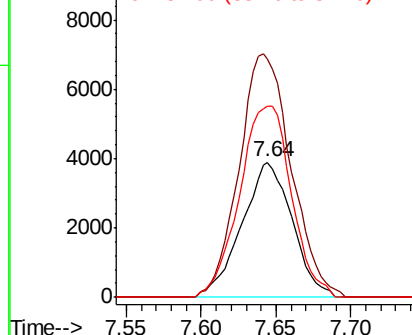
56 100

69 176.1 25.8 38.8#

84 141.0 65.0 97.4#



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



#33

1,2-Dichloroethane-d4

Concen: 51.328 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059219.D

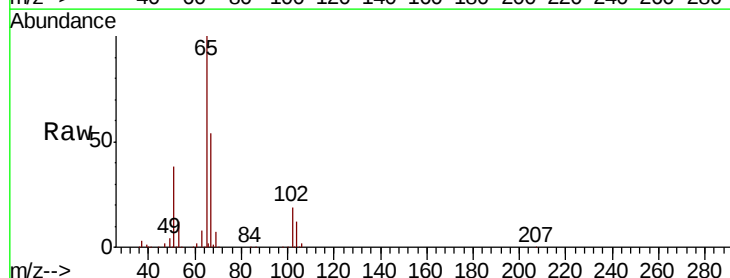
Acq: 14 Nov 2019 9:50

Tgt Ion: 65 Resp: 284386

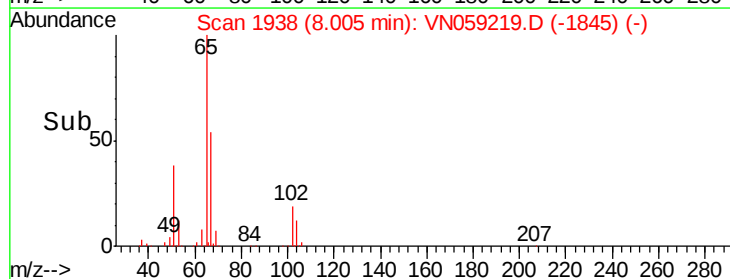
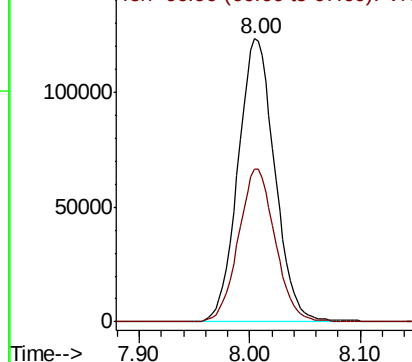
Ion Ratio Lower Upper

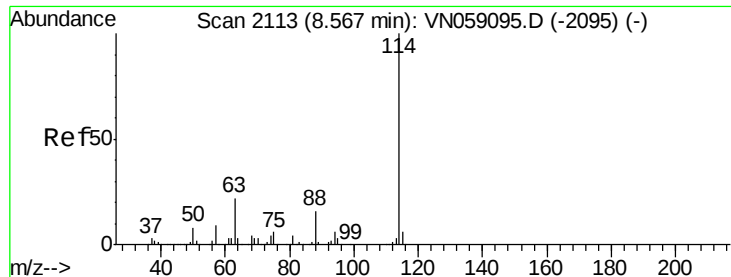
65 100

67 54.0 0.0 107.4



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

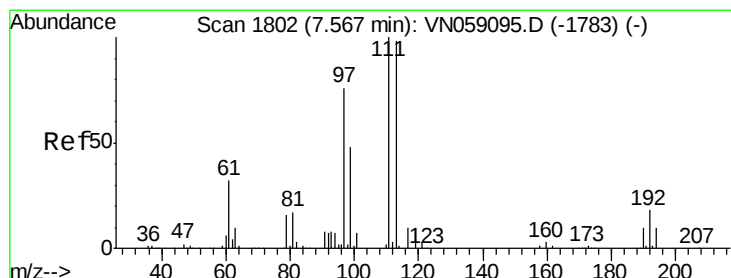
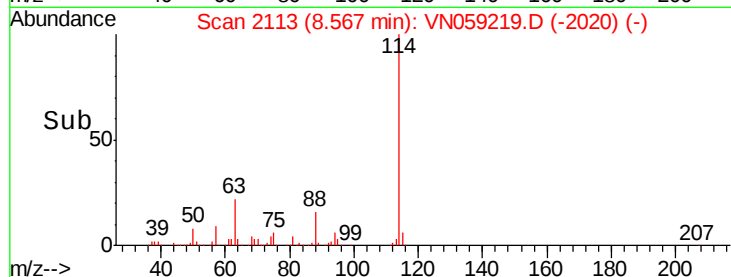
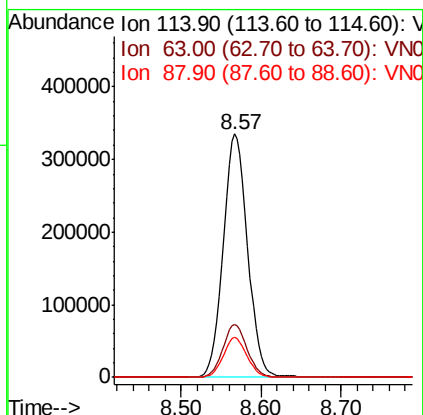
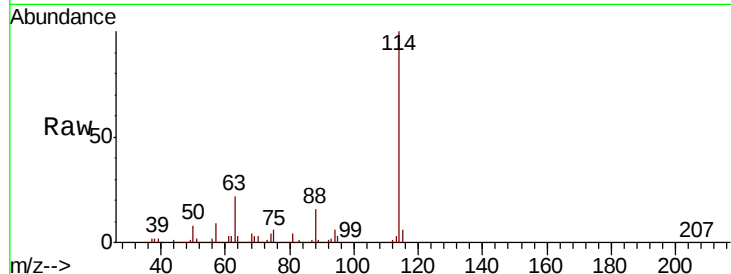




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN059219.D  
 Acq: 14 Nov 2019 9:50

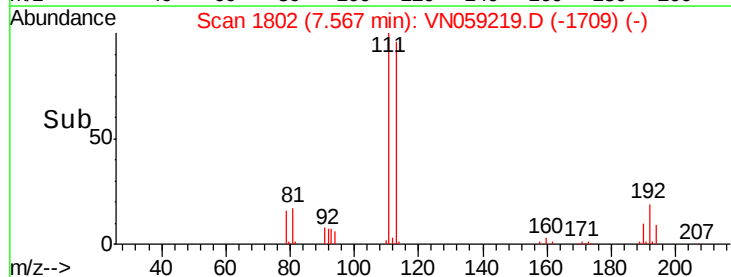
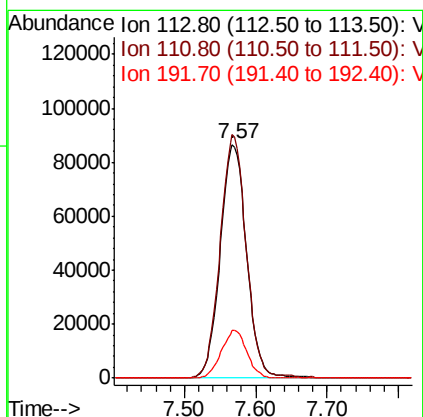
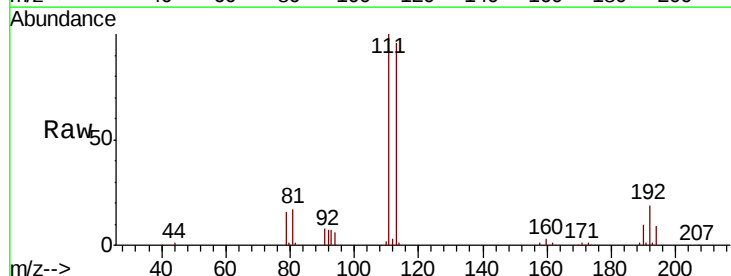
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1114MBL01

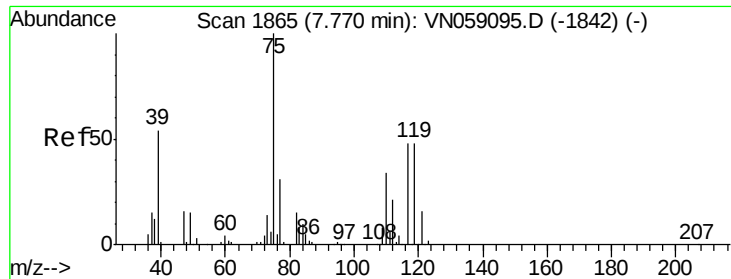
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.7  | 0.0   | 43.4  |
| 88      | 16.3  | 0.0   | 32.2  |



#35  
 Dibromofluoromethane  
 Concen: 53.179 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VN059219.D  
 Acq: 14 Nov 2019 9:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 82.8  | 124.2 |
| 192     | 19.8  | 16.1  | 24.1  |

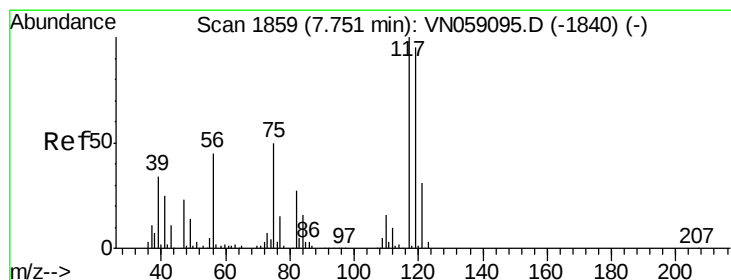
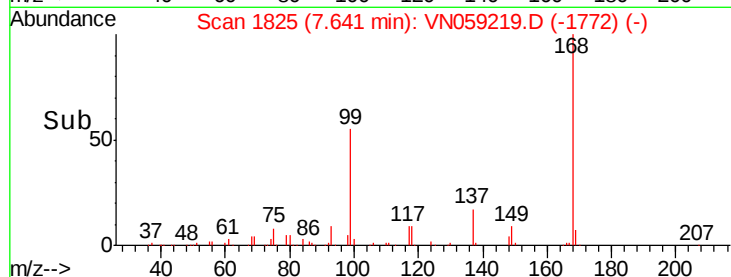
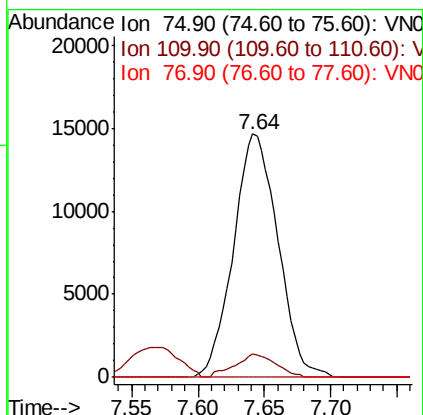
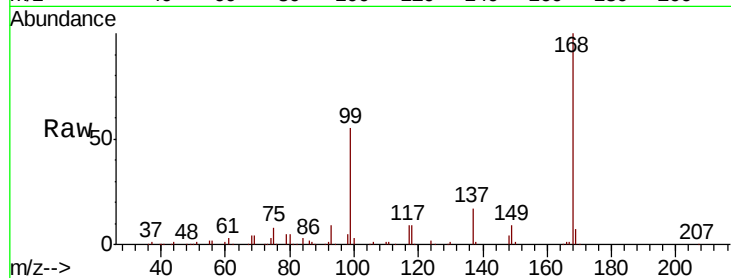




#36  
 1,1-Dichloropropene  
 Concen: 5.209 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN059219.D  
 Acq: 14 Nov 2019 9:50

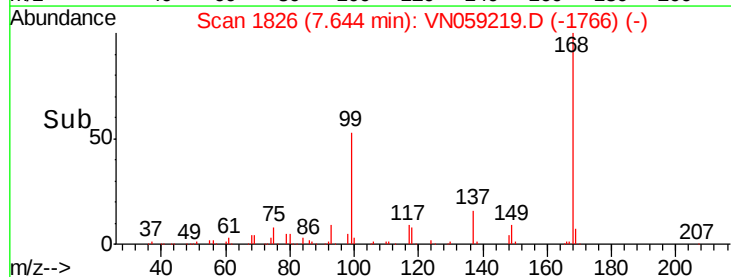
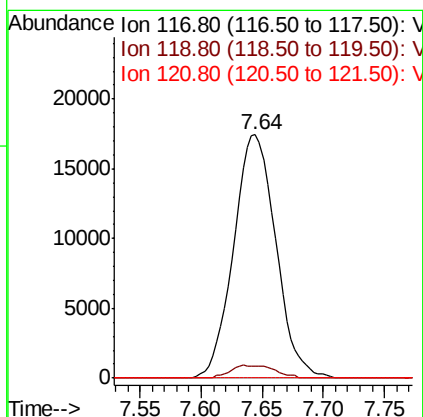
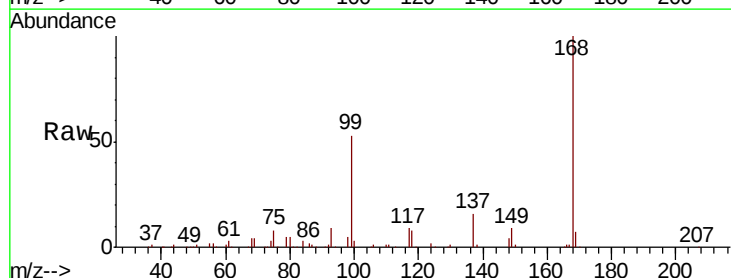
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1114MBL01

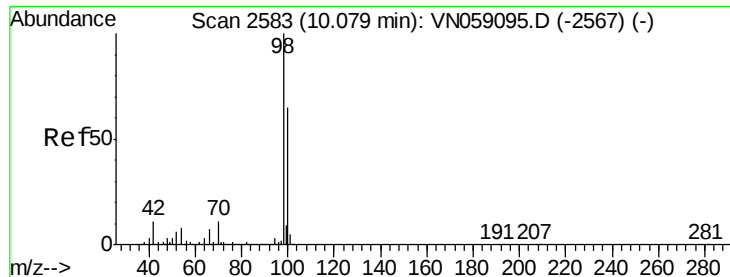
| Tot Ion   | 75    | Resp  | 34122 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.8   | 17.1  | 51.2# |
| 77        | 0.0   | 24.8  | 37.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.431 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.11 min  
 Lab File: VN059219.D  
 Acq: 14 Nov 2019 9:50

| Tgt Ion   | 117   | Resp  | 41928  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.1   | 75.6  | 113.4# |
| 121       | 0.0   | 24.6  | 36.8#  |





#50

Toluene-d8

Concen: 51.268 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

Instrument :

MSVOA\_N

ClientSampled :

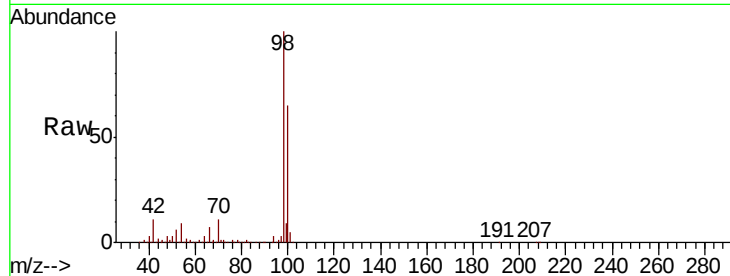
VN1114MBL01

Tot Ion: 98 Resp: 844971

Ion Ratio Lower Upper

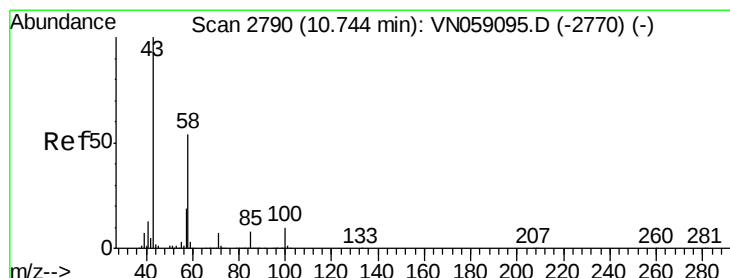
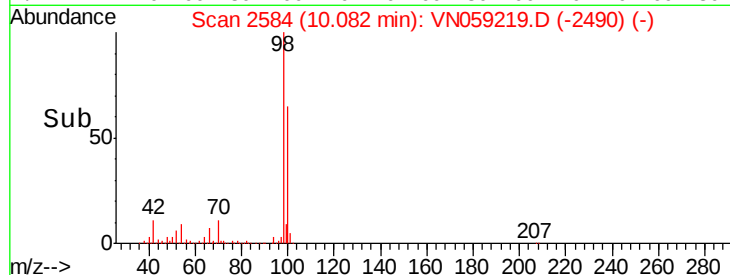
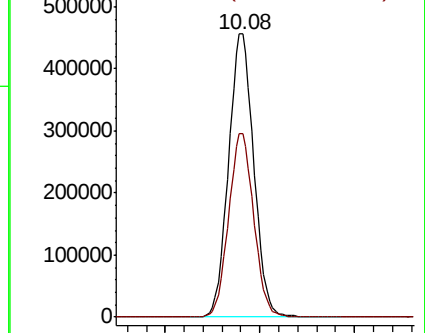
98 100

100 64.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 0.315 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN059219.D

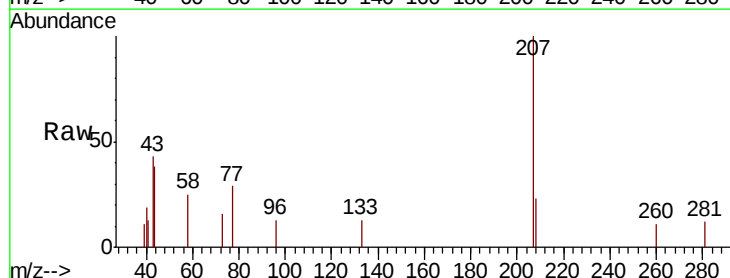
Acq: 14 Nov 2019 9:50

Tgt Ion: 43 Resp: 1589

Ion Ratio Lower Upper

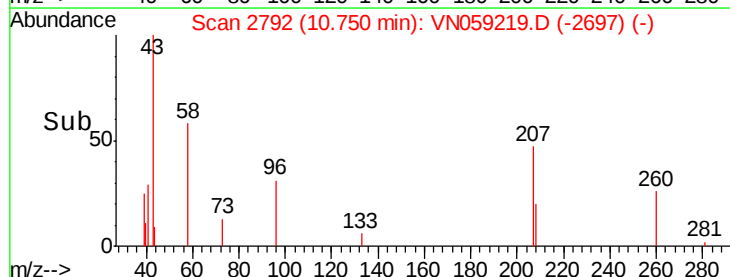
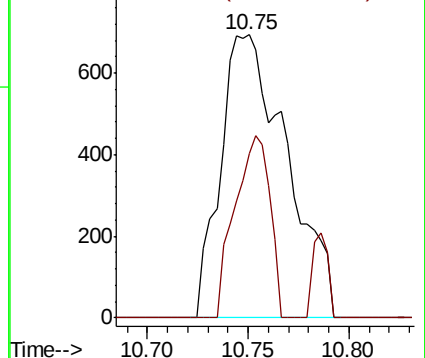
43 100

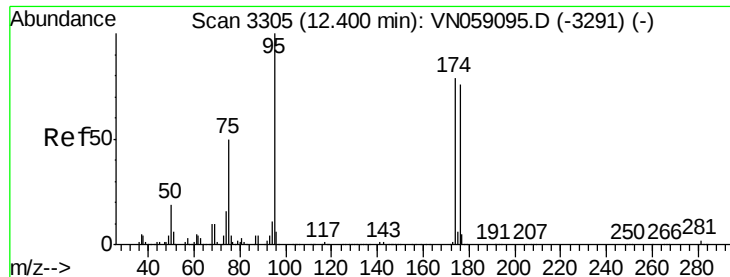
58 34.3 27.3 81.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

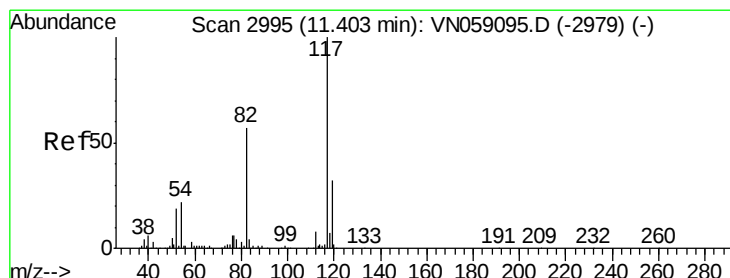
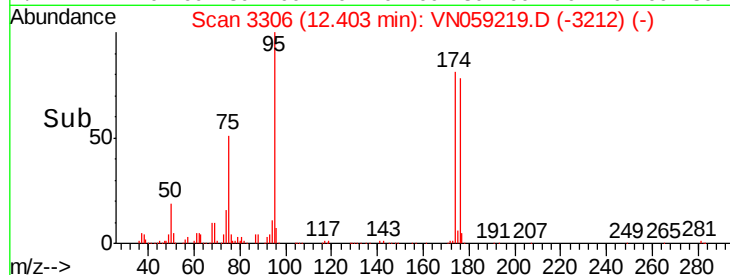
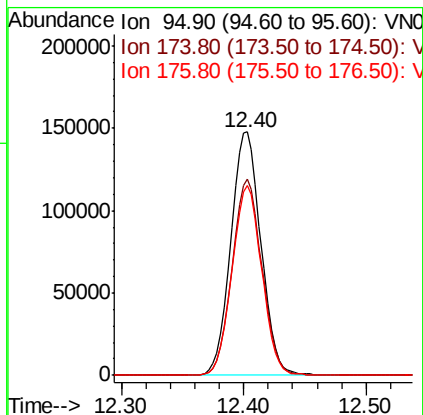
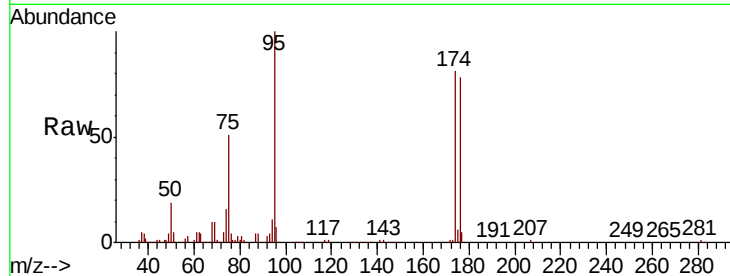




#62  
4-Bromofluorobenzene  
Concen: 42.662 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN059219.D  
Acq: 14 Nov 2019 9:50

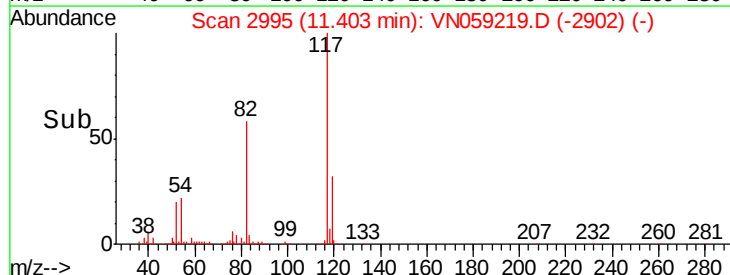
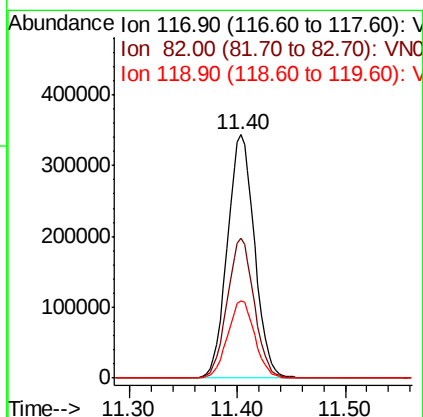
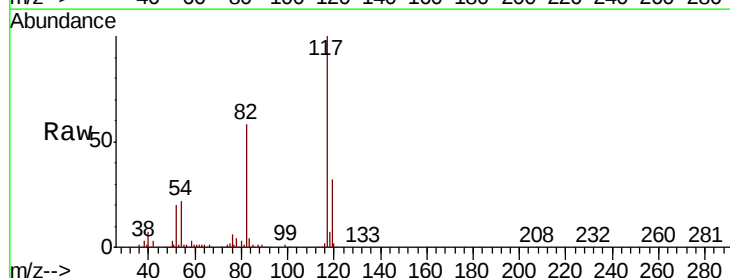
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1114MBL01

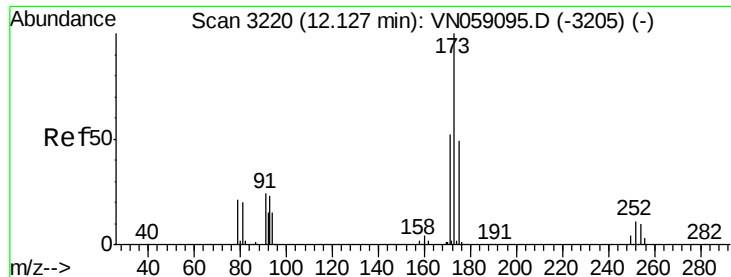
Tot Ion: 95 Resp: 253520  
Ion Ratio Lower Upper  
95 100  
174 80.1 0.0 158.2  
176 76.9 0.0 151.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. -0.00 min  
Lab File: VN059219.D  
Acq: 14 Nov 2019 9:50

Tgt Ion: 117 Resp: 602760  
Ion Ratio Lower Upper  
117 100  
82 57.5 45.8 68.8  
119 32.0 25.8 38.6





#71

Bromoform

Concen: 0.468 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

Instrument :

MSVOA\_N

ClientSampled :

VN1114MBL01

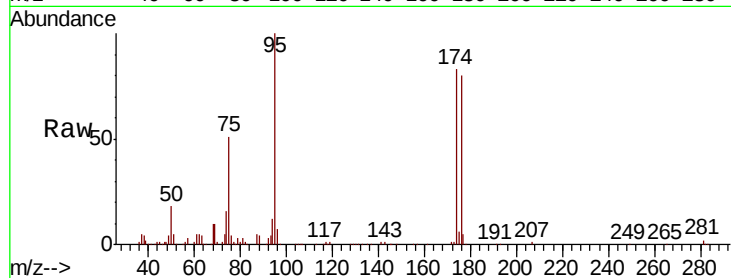
Tot Ion:173 Resp: 1604

Ion Ratio Lower Upper

173 100

175 761.9 24.2 72.6#

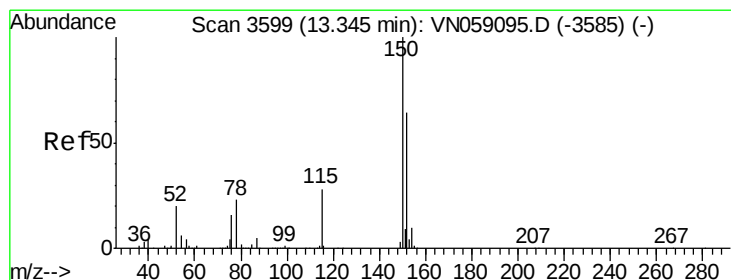
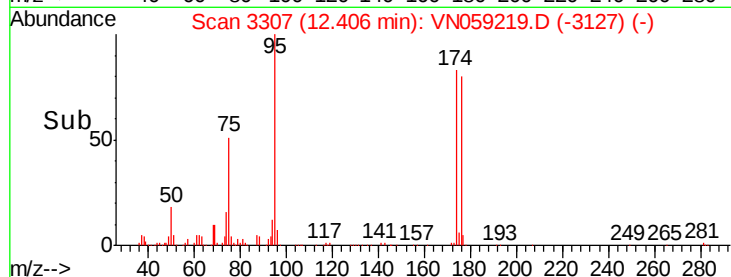
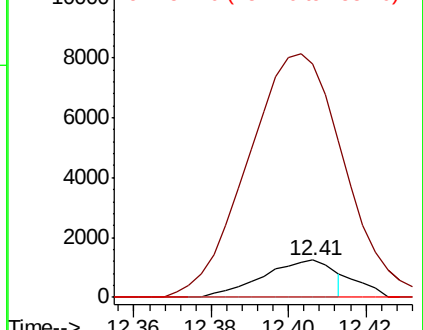
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

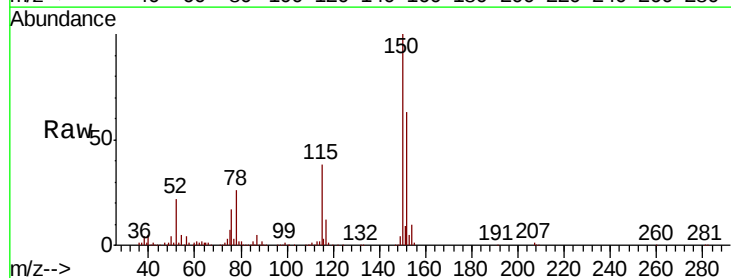
Tgt Ion:152 Resp: 202647

Ion Ratio Lower Upper

152 100

115 60.5 29.4 88.2

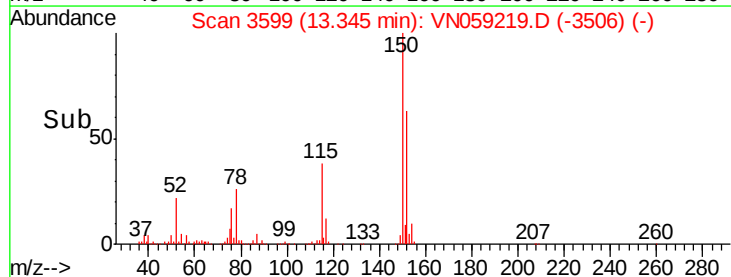
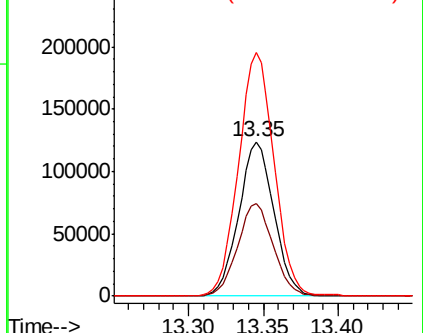
150 159.8 0.0 345.8

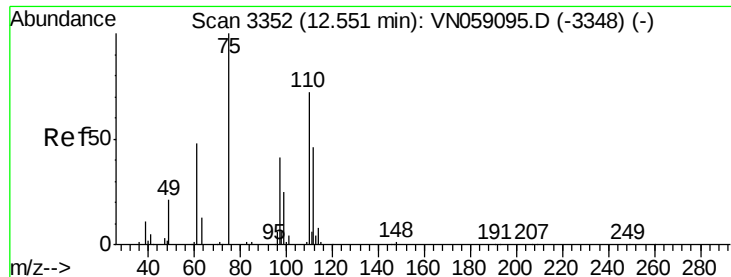


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.693 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

Instrument :

MSVOA\_N

ClientSampleId :

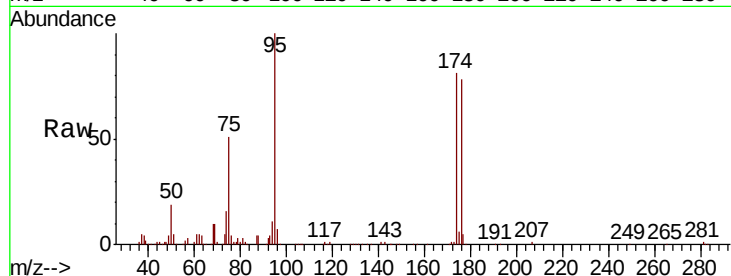
VN1114MBL01

Tot Ion: 75 Resp: 127764

Ion Ratio Lower Upper

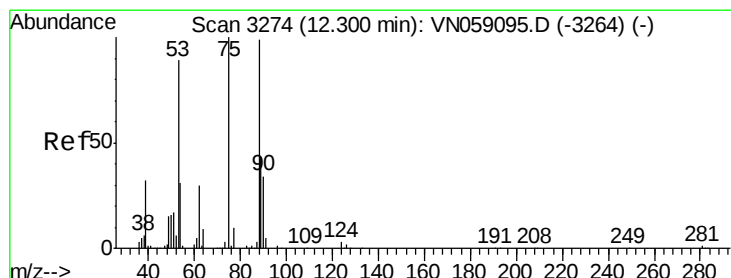
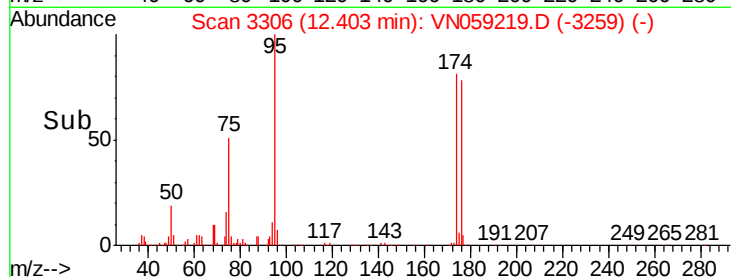
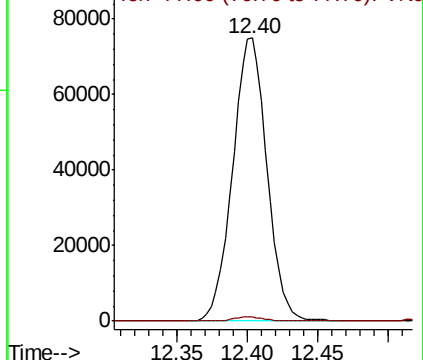
75 100

77 1.4 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: 73.145 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

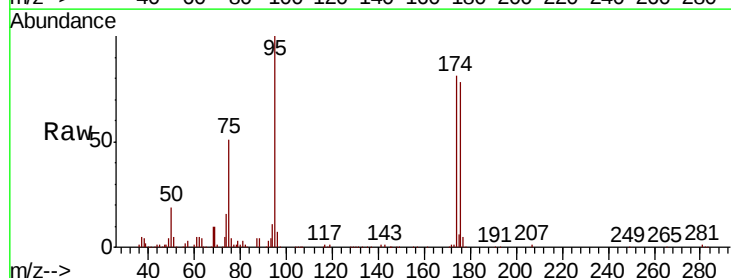
Tgt Ion: 75 Resp: 127764

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

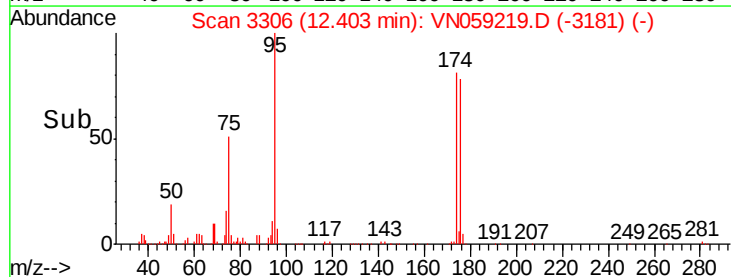
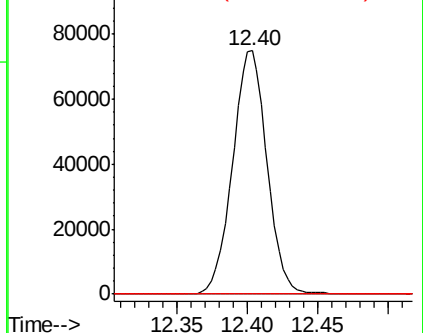
89 0.0 35.8 53.8#

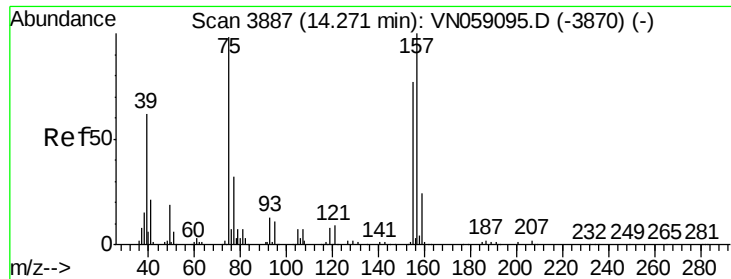


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.741 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

Instrument :

MSVOA\_N

ClientSampled :

VN1114MBL01

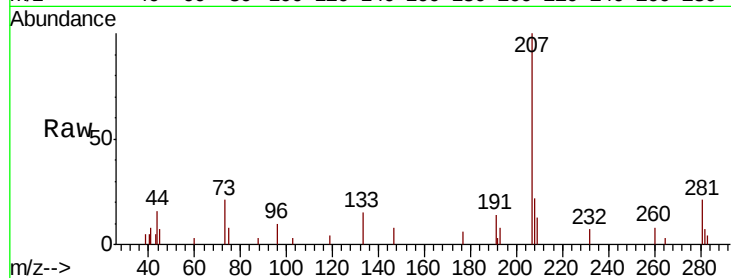
Tot Ion: 75 Resp: 716

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

157 0.0 51.8 155.5#



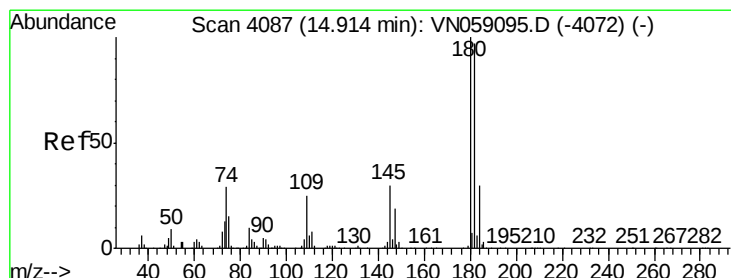
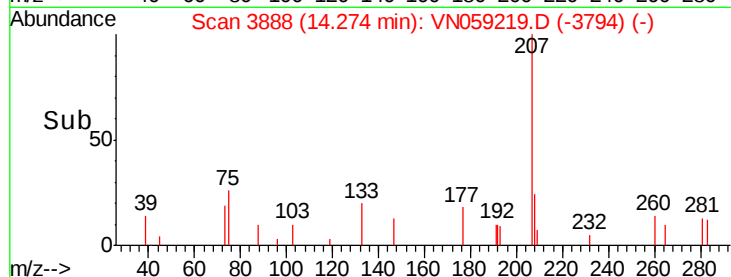
Abundance Ion 74.90 (74.60 to 75.60): VN059219.D (-3870) (-)

Ion 154.80 (154.50 to 155.50): VN059219.D (-3870) (-)

Ion 156.80 (156.50 to 157.50): VN059219.D (-3870) (-)

Time-->

14.25 14.30



#93

1,2,4-Trichlorobenzene

Concen: 3.590 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

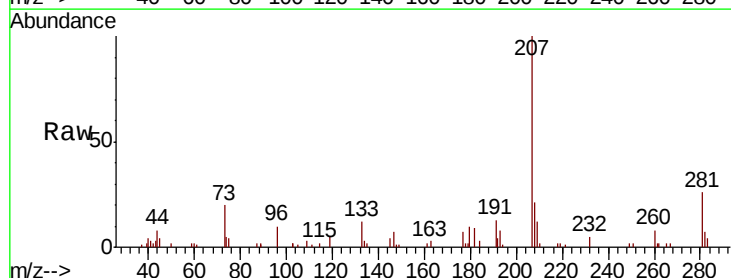
Tgt Ion: 180 Resp: 2192

Ion Ratio Lower Upper

180 100

182 88.0 48.1 144.3

145 30.5 15.1 45.3



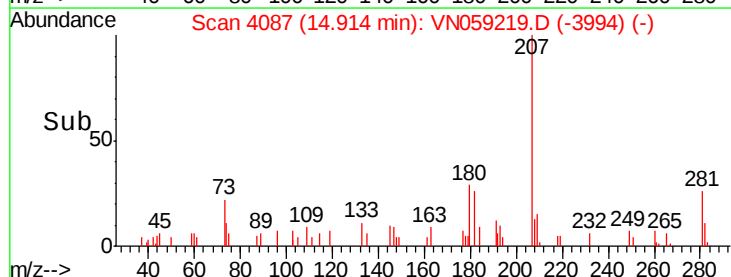
Abundance Ion 179.80 (179.50 to 180.50): VN059219.D (-4072) (-)

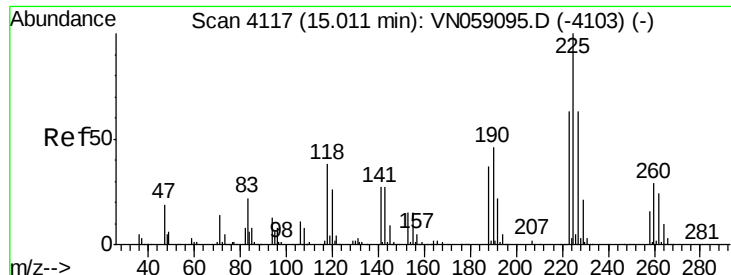
Ion 181.80 (181.50 to 182.50): VN059219.D (-4072) (-)

Ion 144.80 (144.50 to 145.50): VN059219.D (-4072) (-)

Time-->

14.90 14.95





#94

Hexachlorobutadiene

Concen: 0.225 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

Instrument :

MSVOA\_N

ClientSampled :

VN1114MBL01

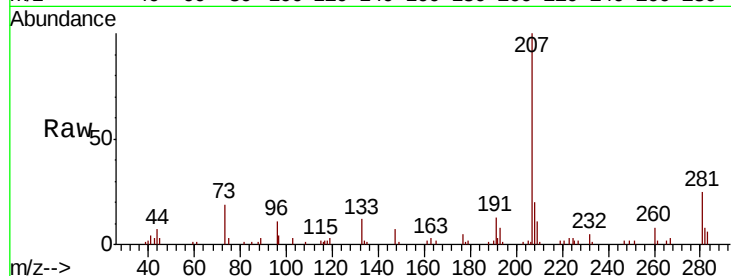
Tot Ion:225 Resp: 484

Ion Ratio Lower Upper

225 100

223 112.0 31.3 93.9#

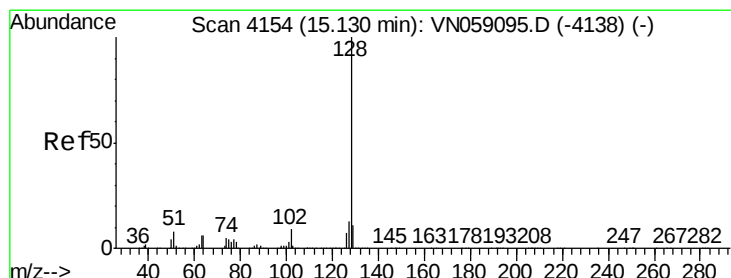
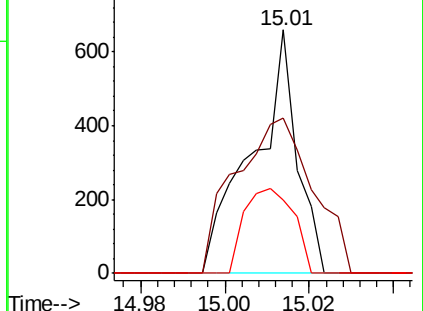
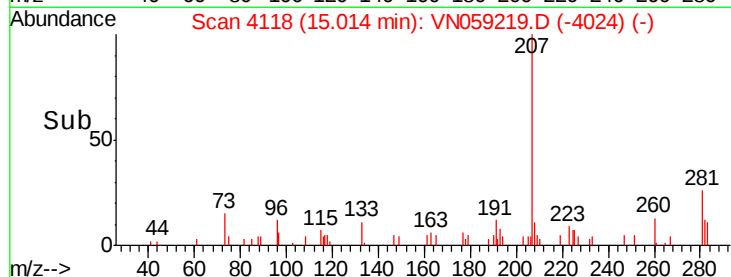
227 38.6 31.5 94.5



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: 3.869 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059219.D

Acq: 14 Nov 2019 9:50

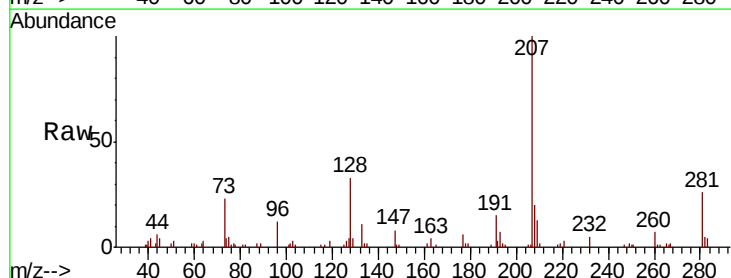
Tgt Ion:128 Resp: 9215

Ion Ratio Lower Upper

128 100

127 5.3 10.2 15.2#

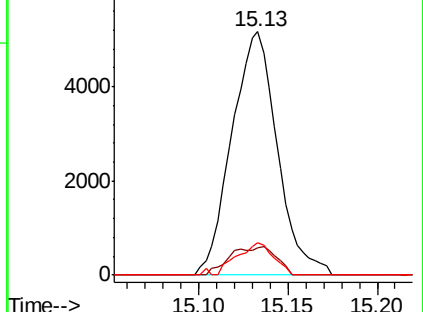
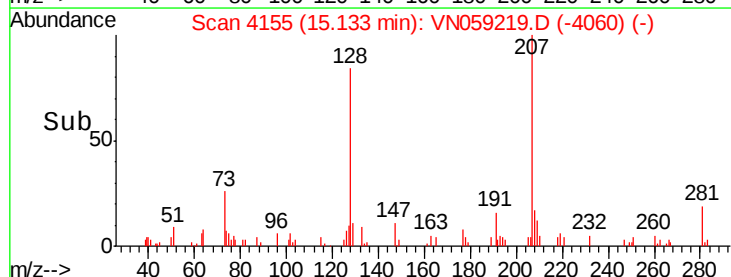
129 10.5 8.6 12.8

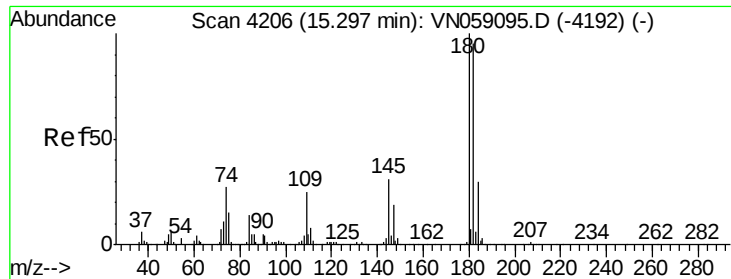


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.025 ug/l  
 RT: 15.30 min Scan# 4206  
 Delta R.T. -0.00 min  
 Lab File: VN059219.D  
 Acq: 14 Nov 2019 9:50

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1114MBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 80.9  | 47.3  | 141.8 |
| 145     | 38.4  | 15.8  | 47.3  |

