

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021220\  
 Data File : VN060074.D  
 Acq On : 12 Feb 2020 15:09  
 Operator : JC/MD  
 Sample : VN0212MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 13 00:35:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N021220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 12 14:12:21 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 203200   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 316625   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 284925   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 119834   | 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   | 117645   | 47.58 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.16% |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 95995    | 49.32 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.64% |          |
| 50) Toluene-d8              | 10.08 | 98   | 374974   | 48.92 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.84% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 129351   | 45.93 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.86% |          |

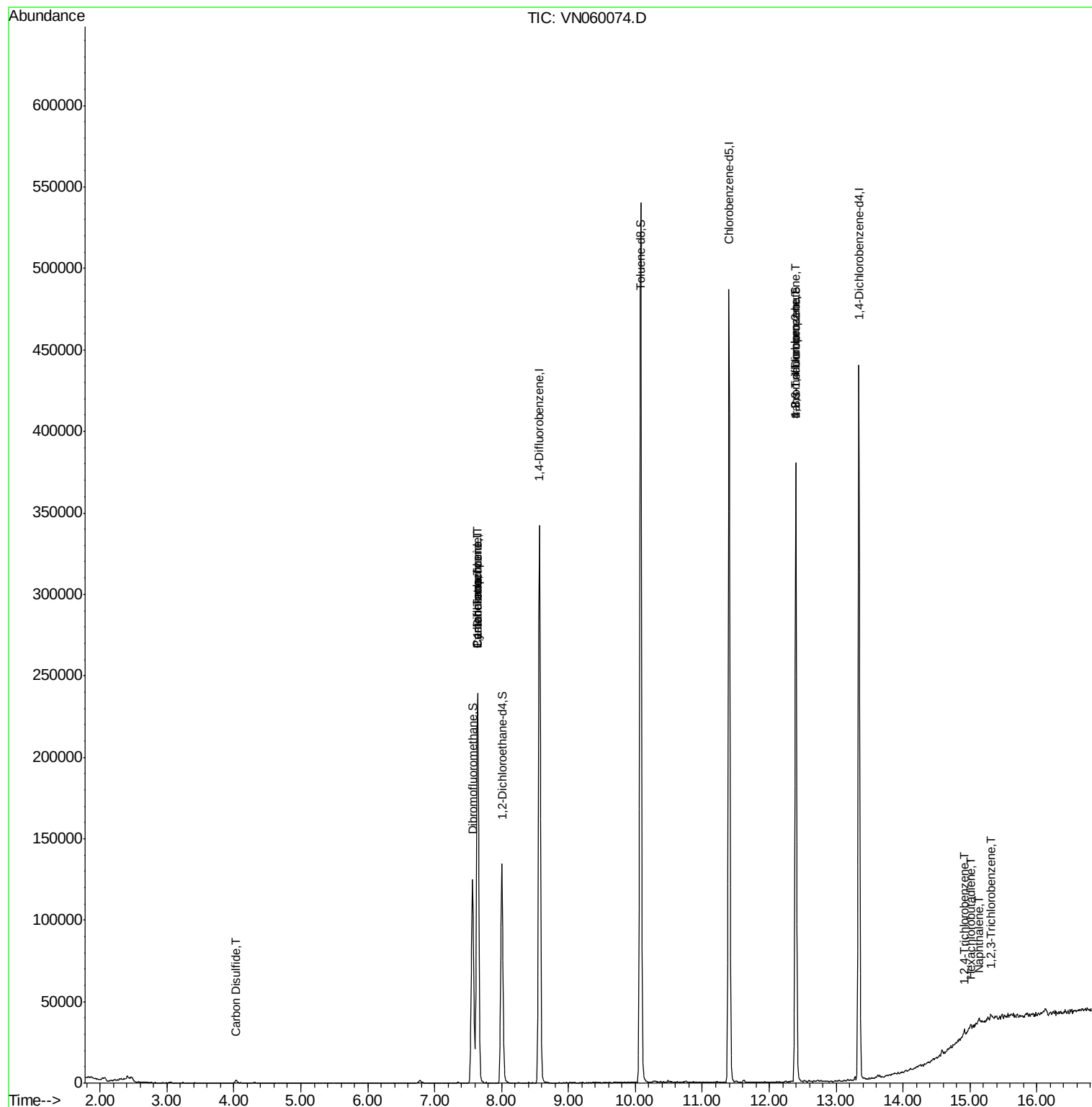
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 17) Carbon Disulfide           | 4.03  | 76   | 3129     | 0.540     | ug/l # | 76     |
| 31) Cyclohexane                | 7.64  | 56   | 4122     | 1.179     | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 14410    | 4.914     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18862    | 5.922     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 67166    | 29.296    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 67166    | 71.731    | ug/l # | 12     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75   | 64       | Below Cal | #      | 1      |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 1250     | 0.553     | ug/l   | 94     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 464      | 0.351     | ug/l   | 77     |
| 95) Naphthalene                | 15.13 | 128  | 3665     | 0.600     | ug/l # | 91     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 1416     | 0.629     | ug/l   | 96     |

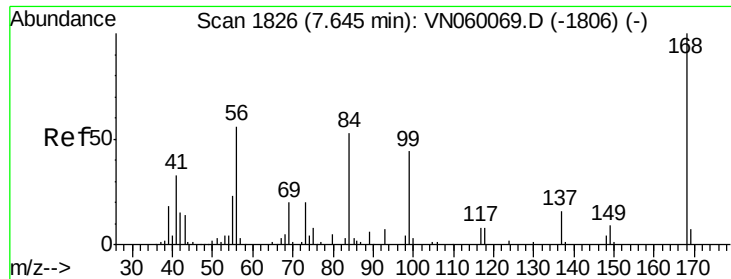
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN021220\  
Data File : VN060074.D  
Acq On : 12 Feb 2020 15:09  
Operator : JC/MD  
Sample : VN0212MBL01  
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Feb 13 00:35:43 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N021220W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 12 14:12:21 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA\_N

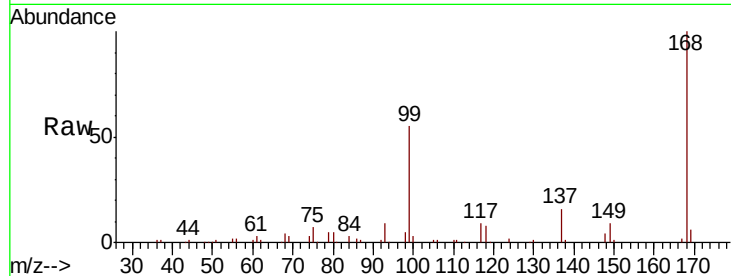
ClientSampleId :

Tot Ion:168 Resp: 203200

Ion Ratio Lower Upper

168 100

99 55.2 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060069.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN060069.D (-1806) (-)

7.64

80000

60000

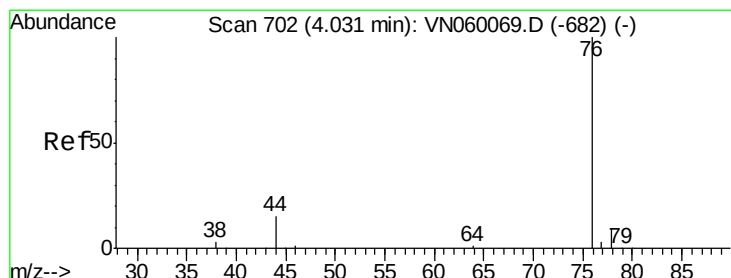
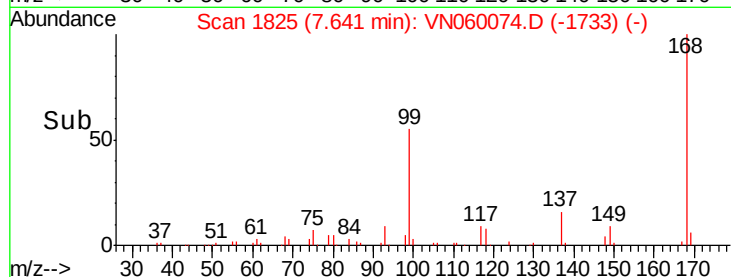
40000

20000

0

7.50 7.60 7.70 7.80

Time-->



#17

Carbon Disulfide

Concen: 0.540 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN060074.D

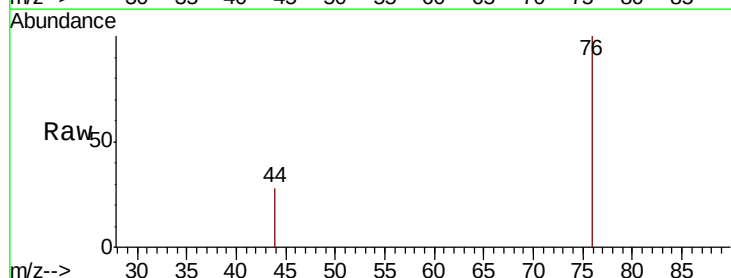
Acq: 12 Feb 2020 15:09

Tgt Ion: 76 Resp: 3129

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060069.D (-682) (-)

Ion 77.90 (77.60 to 78.60): VN060069.D (-682) (-)

4.03

1500

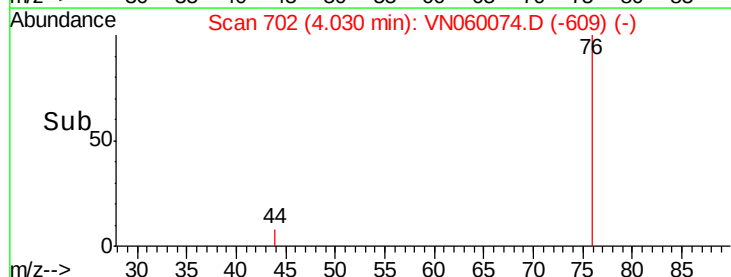
1000

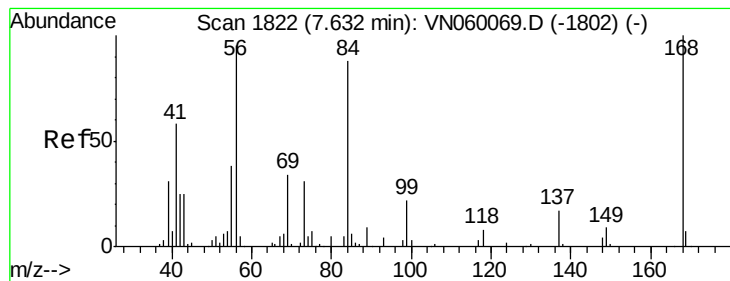
500

0

4.00 4.05 4.10

Time-->





#31

Cyclohexane

Concen: 1.179 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA\_N

ClientSampled :

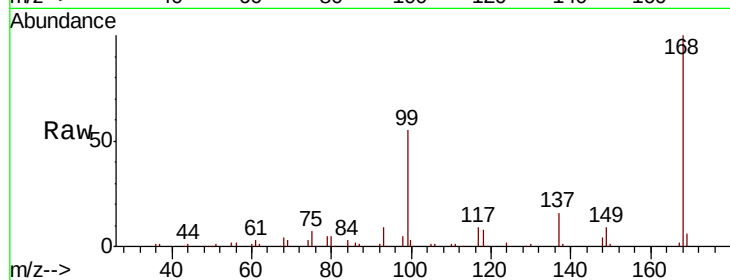
Tot Ion: 56 Resp: 4122

Ion Ratio Lower Upper

56 100

69 157.0 28.3 42.5#

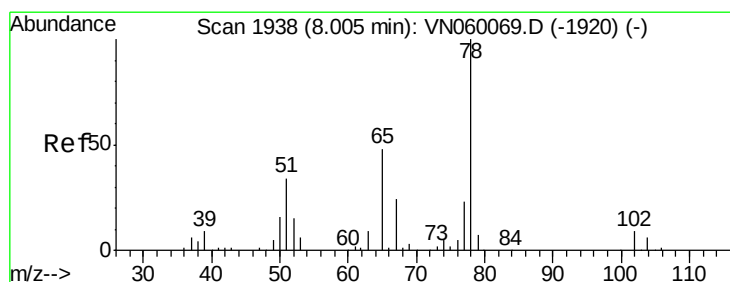
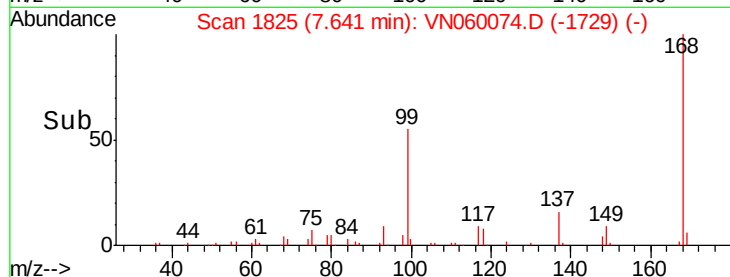
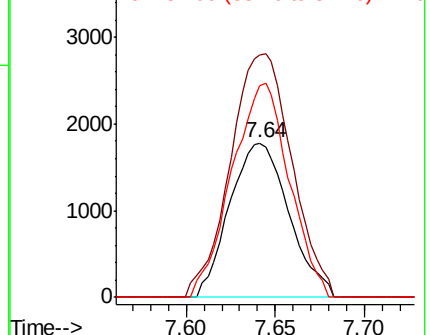
84 137.6 72.6 108.8#



Abundance Ion 56.00 (55.70 to 56.70): VN060069.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN060069.D (-1802) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.580 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060074.D

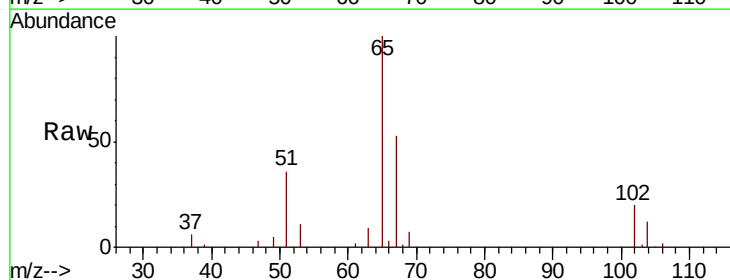
Acq: 12 Feb 2020 15:09

Tgt Ion: 65 Resp: 117645

Ion Ratio Lower Upper

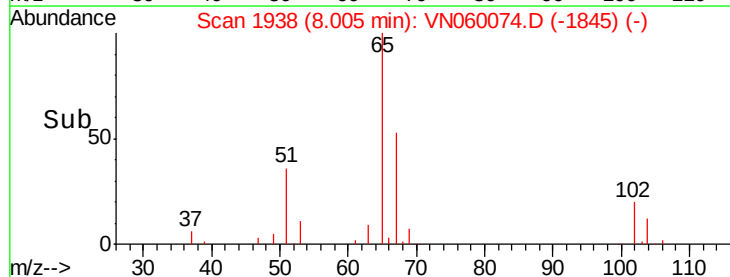
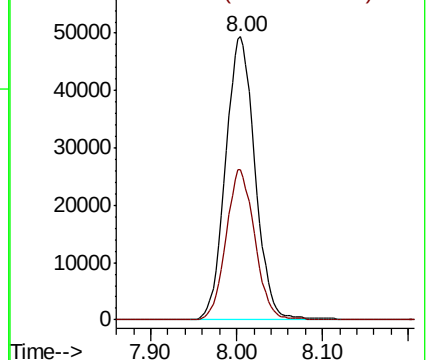
65 100

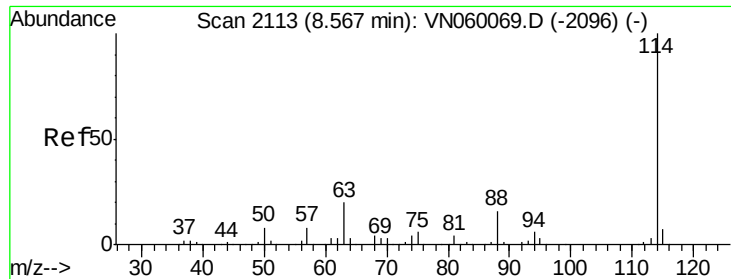
67 51.8 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)

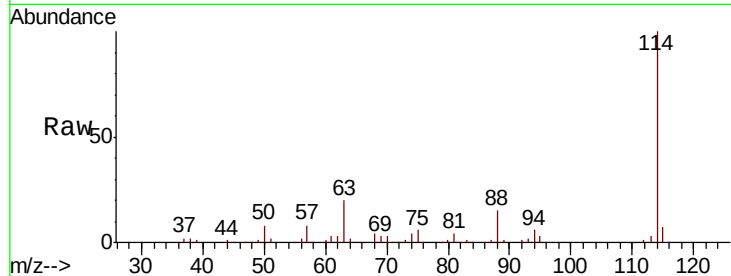




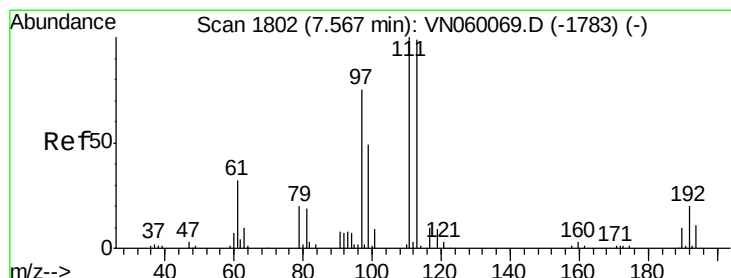
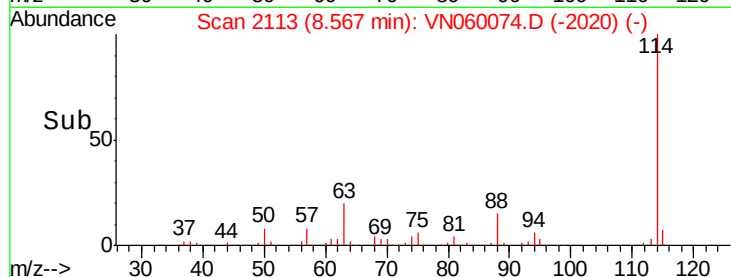
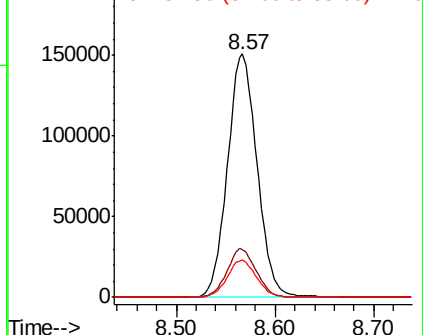
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2113  
Delta R.T. -0.00 min  
Lab File: VN060074.D  
Acq: 12 Feb 2020 15:09

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:114 Resp: 316625  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 40.0  
88 15.3 0.0 31.6

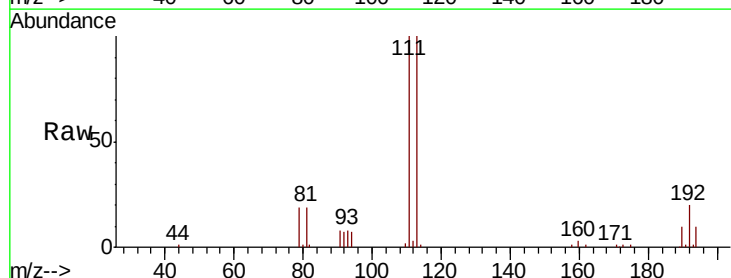


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

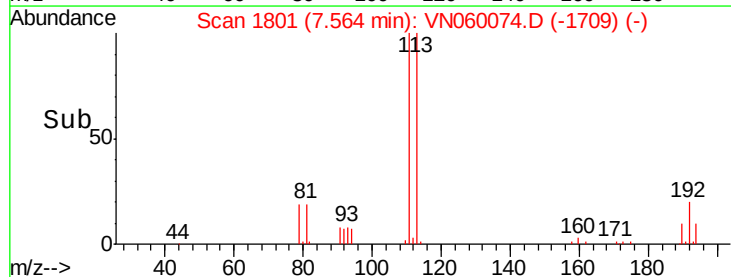
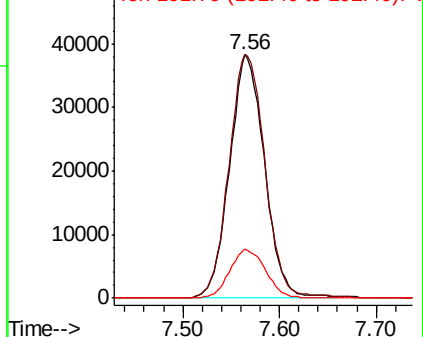


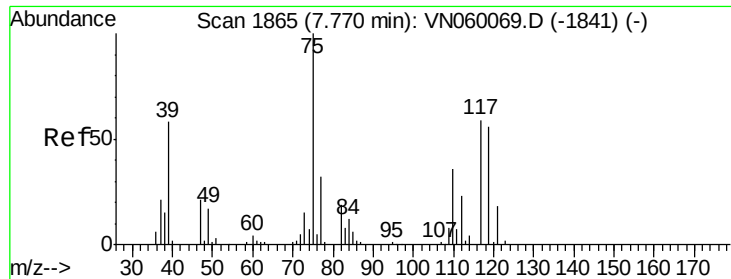
#35  
Dibromofluoromethane  
Concen: 49.322 ug/l  
RT: 7.56 min Scan# 1801  
Delta R.T. -0.00 min  
Lab File: VN060074.D  
Acq: 12 Feb 2020 15:09

Tgt Ion:113 Resp: 95995  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.4 122.2  
192 20.4 16.2 24.2



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

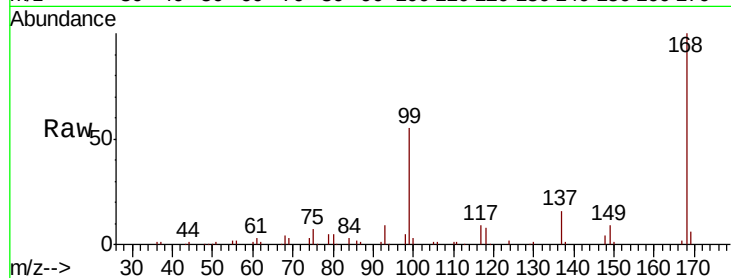




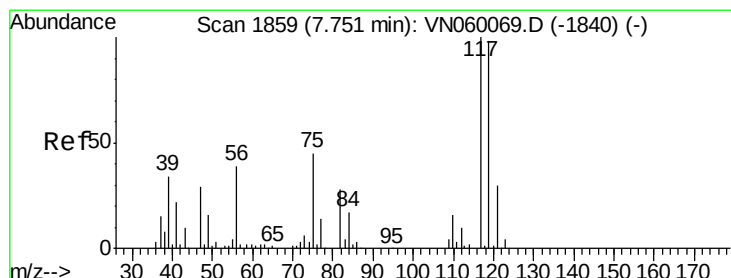
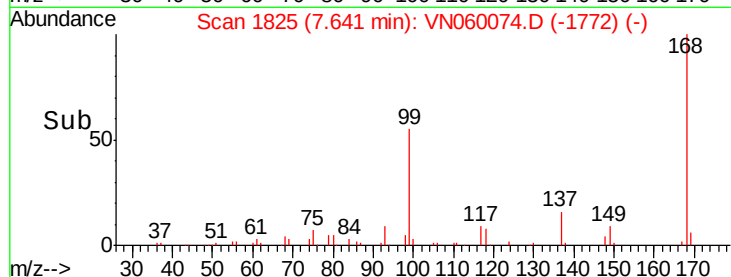
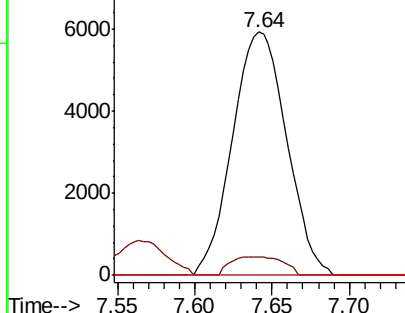
#36  
 1,1-Dichloropropene  
 Concen: 4.914 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN060074.D  
 Acq: 12 Feb 2020 15:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.3   | 18.1  | 54.3# |
| 77      | 0.0   | 25.1  | 37.7# |

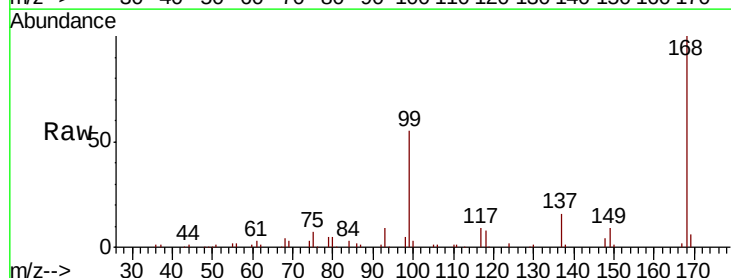


Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-1841) (-)  
 Ion 109.90 (109.60 to 110.60): VN060069.D (-1841) (-)  
 Ion 76.90 (76.60 to 77.60): VN060069.D (-1841) (-)

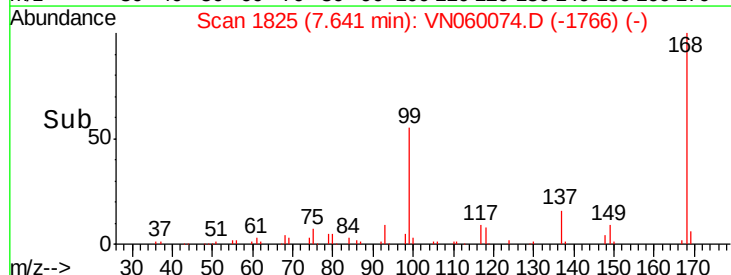
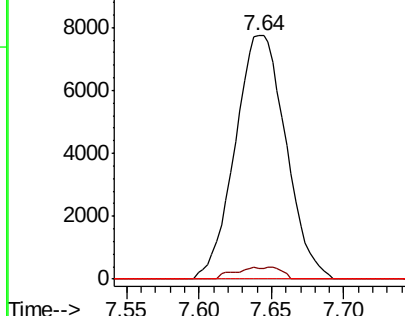


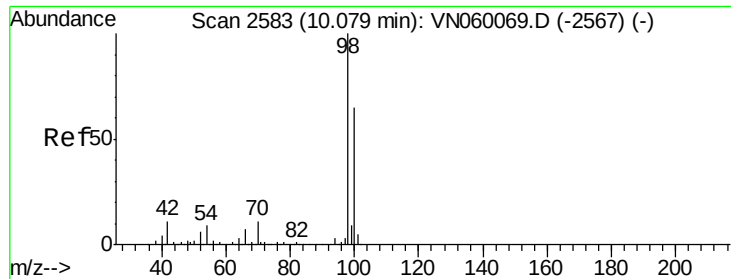
#38  
 Carbon Tetrachloride  
 Concen: 5.922 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.11 min  
 Lab File: VN060074.D  
 Acq: 12 Feb 2020 15:09

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.5   | 78.2  | 117.4# |
| 121     | 0.0   | 24.2  | 36.2#  |



Abundance Ion 116.80 (116.50 to 117.50): VN060069.D (-1840) (-)  
 Ion 118.80 (118.50 to 119.50): VN060069.D (-1840) (-)  
 Ion 120.80 (120.50 to 121.50): VN060069.D (-1840) (-)





#50

Toluene-d8

Concen: 48.924 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA\_N

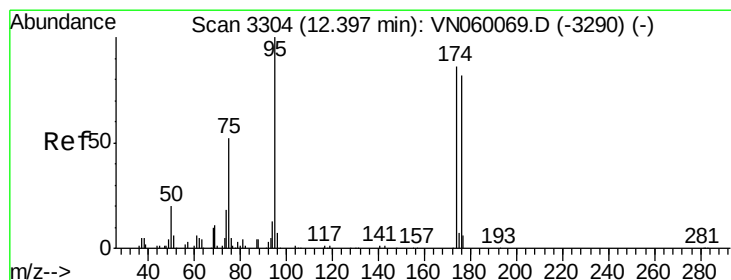
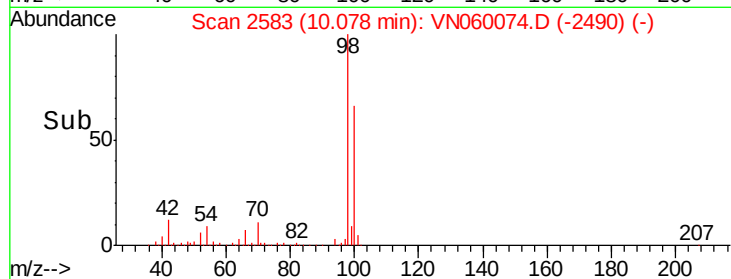
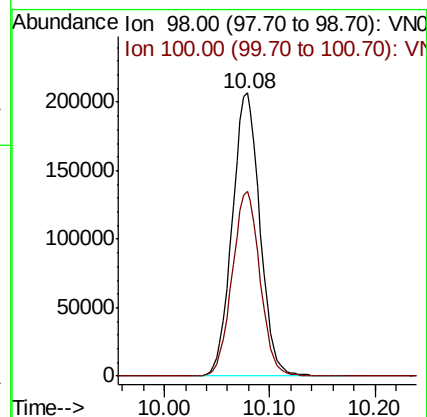
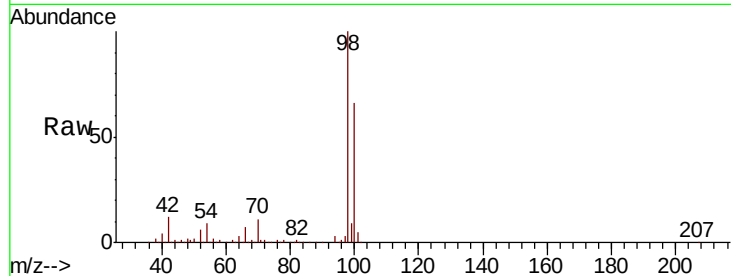
ClientSampleId :

Tot Ion: 98 Resp: 374974

Ion Ratio Lower Upper

98 100

100 65.5 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 45.929 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

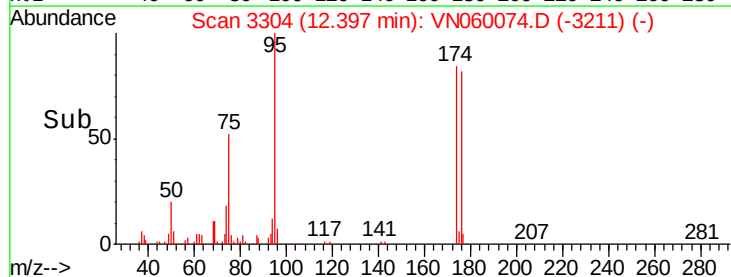
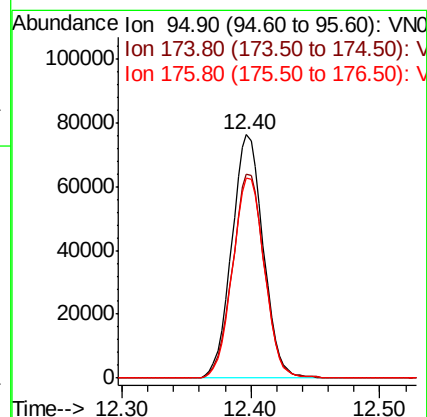
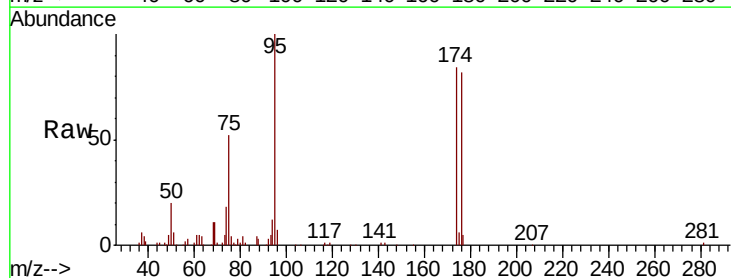
Tgt Ion: 95 Resp: 129351

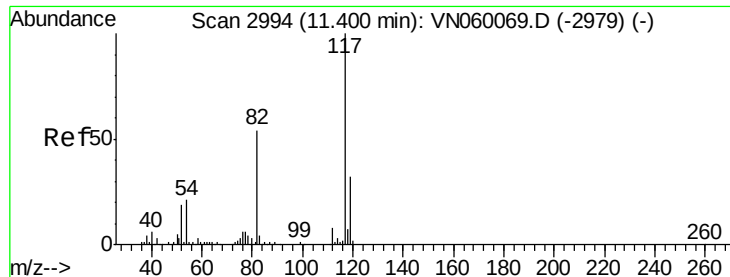
Ion Ratio Lower Upper

95 100

174 84.8 0.0 169.8

176 83.2 0.0 164.8

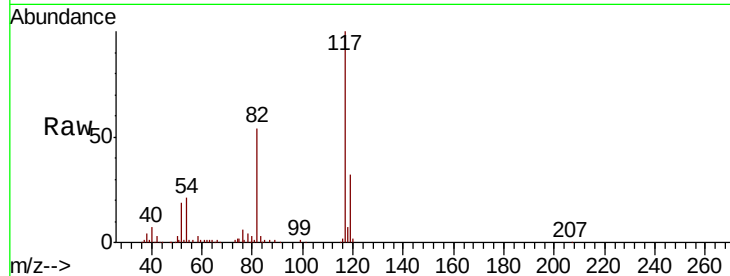




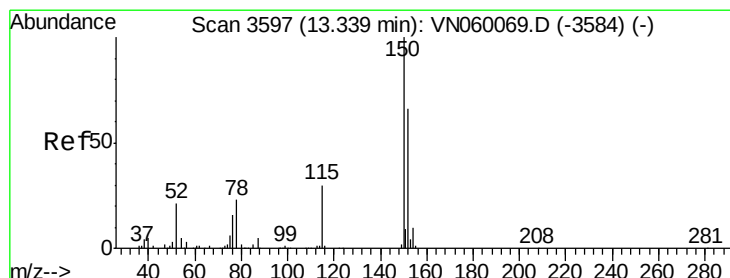
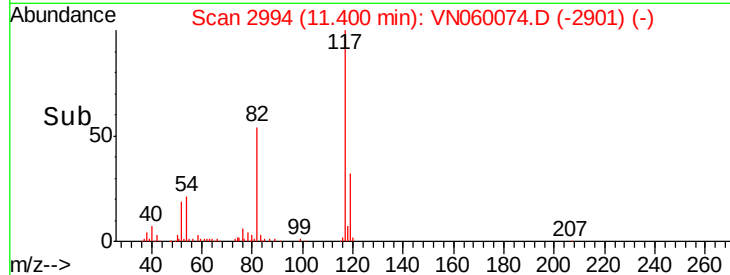
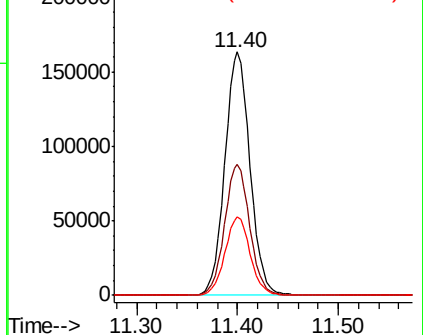
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060074.D  
Acq: 12 Feb 2020 15:09

Instrument :  
MSVOA\_N  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.7  | 43.4  | 65.0  |
| 119     | 32.2  | 25.8  | 38.6  |

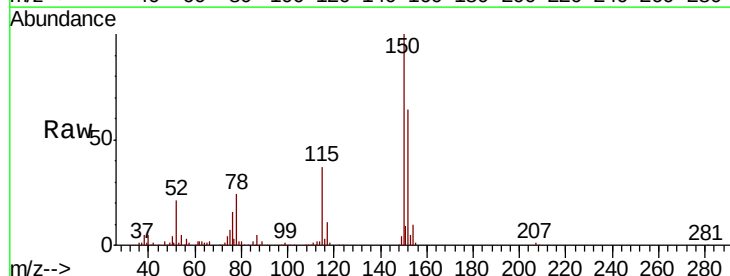


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

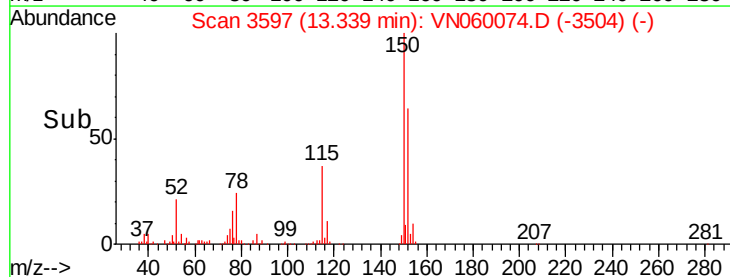
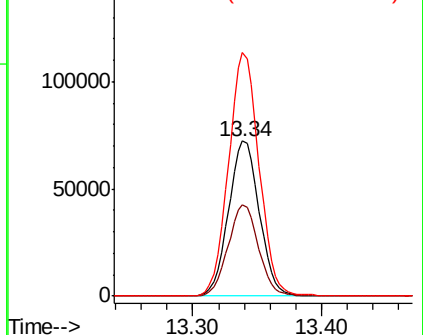


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. -0.00 min  
Lab File: VN060074.D  
Acq: 12 Feb 2020 15:09

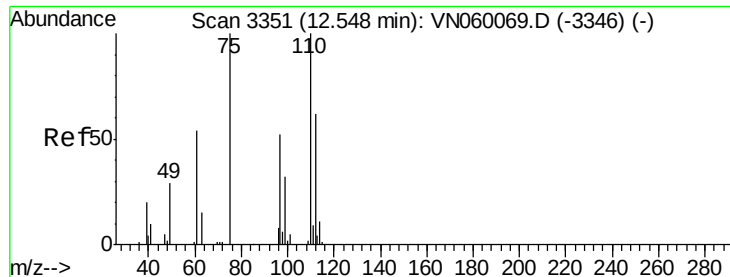
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.4  | 28.9  | 86.8  |
| 150     | 155.5 | 0.0   | 342.4 |



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: 29.296 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA\_N

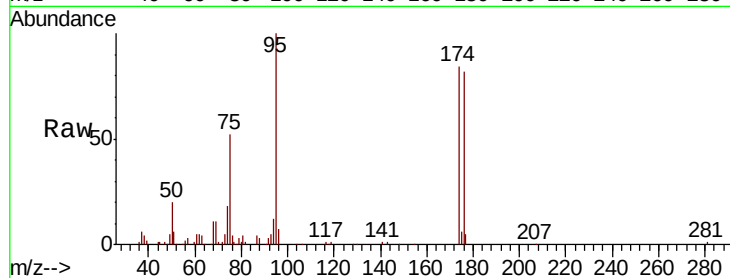
ClientSampled :

Tot Ion: 75 Resp: 67166

Ion Ratio Lower Upper

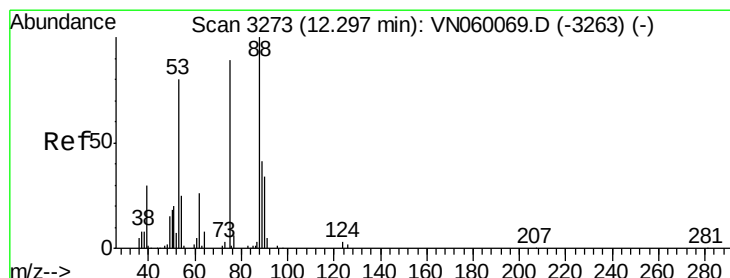
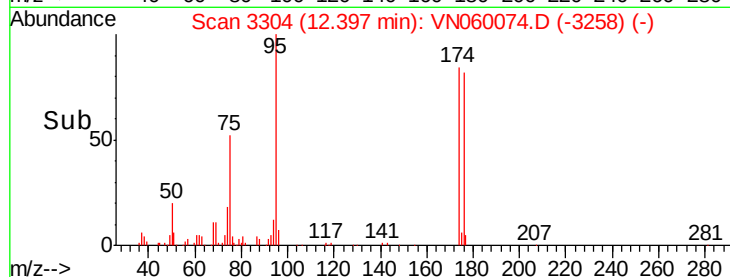
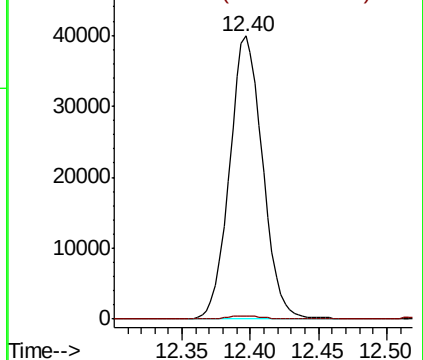
75 100

77 1.1 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: 71.731 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

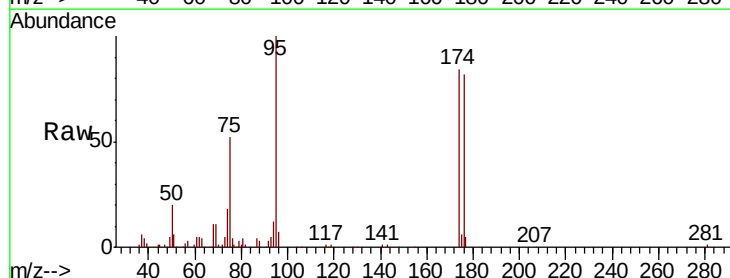
Tgt Ion: 75 Resp: 67166

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

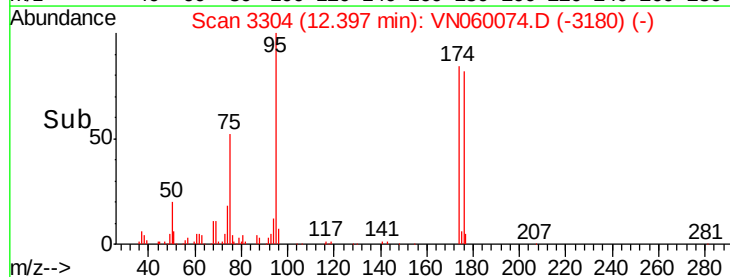
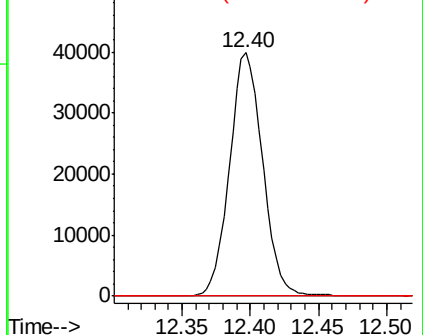
89 0.0 37.0 55.4#

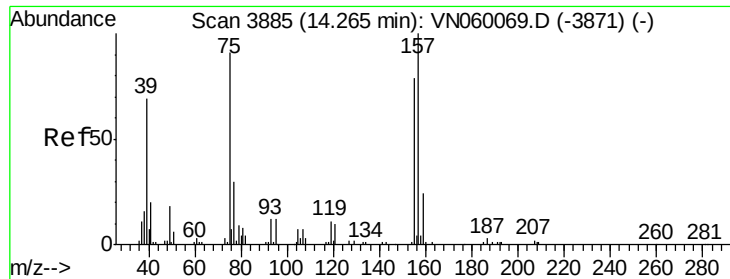


Abundance Ion 74.90 (74.60 to 75.60): VN0

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: Below Cal

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA\_N

ClientSampleId :

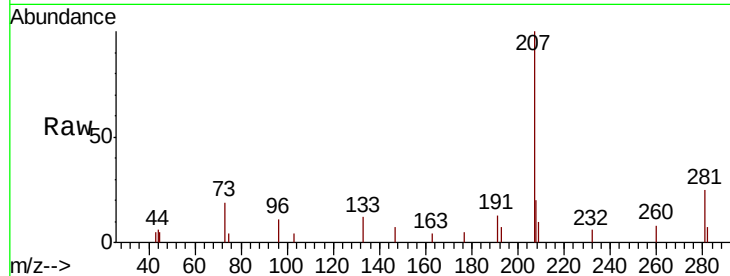
Tot Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

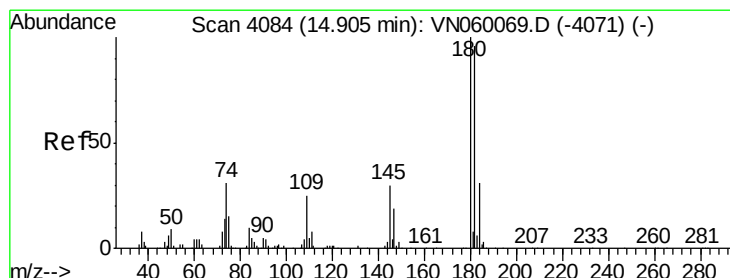
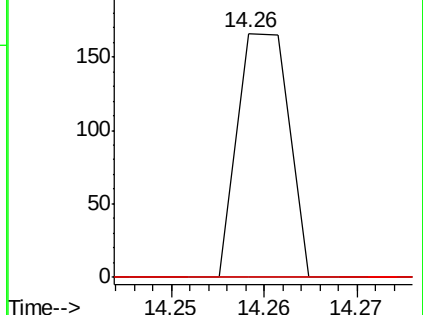
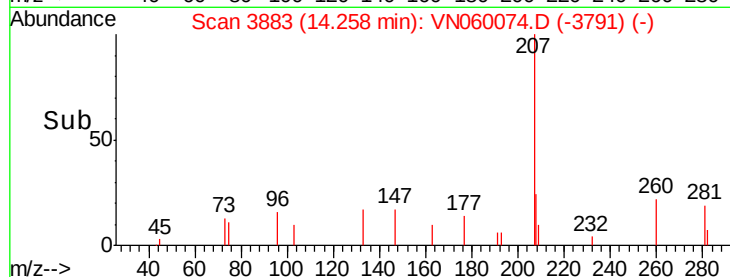
157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060074.D (-3871) (-)

Ion 154.80 (154.50 to 155.50): VN060074.D (-3871) (-)

Ion 156.80 (156.50 to 157.50): VN060074.D (-3871) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.553 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

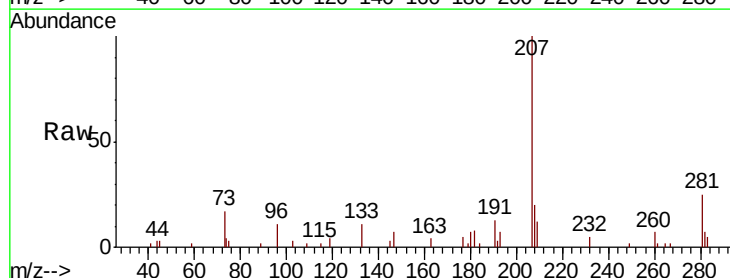
Tgt Ion: 180 Resp: 1250

Ion Ratio Lower Upper

180 100

182 92.4 47.9 143.8

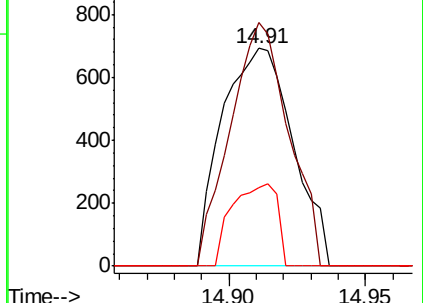
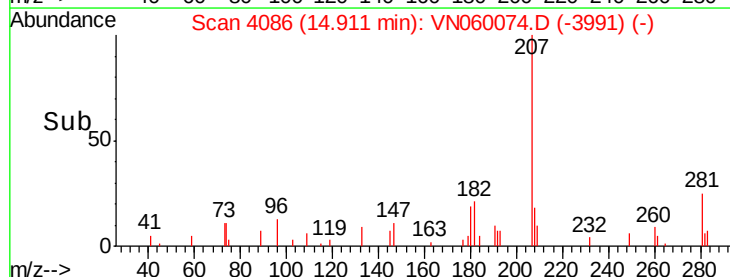
145 24.0 15.2 45.5

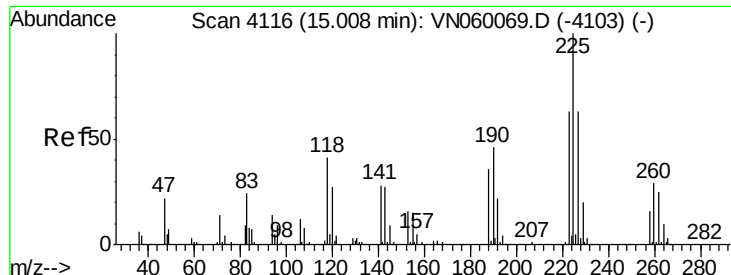


Abundance Ion 179.80 (179.50 to 180.50): VN060074.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN060074.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN060074.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: 0.351 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA\_N

ClientSampled :

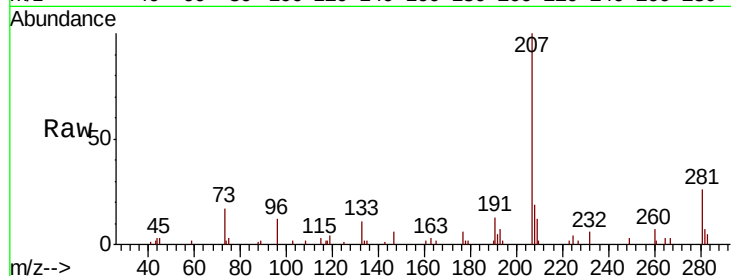
Tot Ion:225 Resp: 464

Ion Ratio Lower Upper

225 100

223 52.2 31.5 94.5

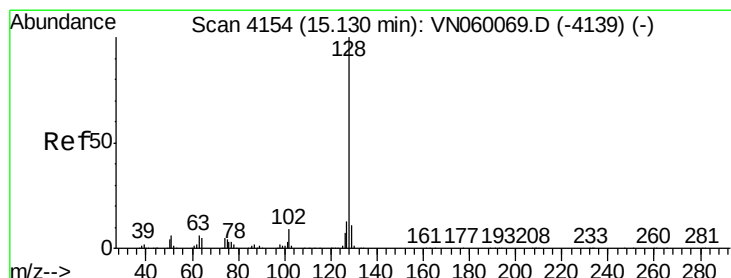
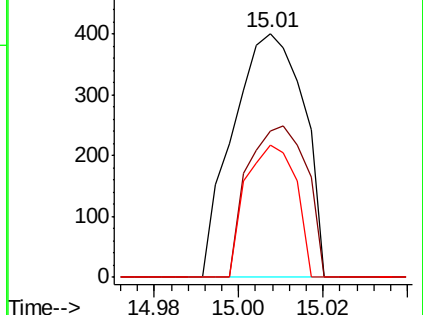
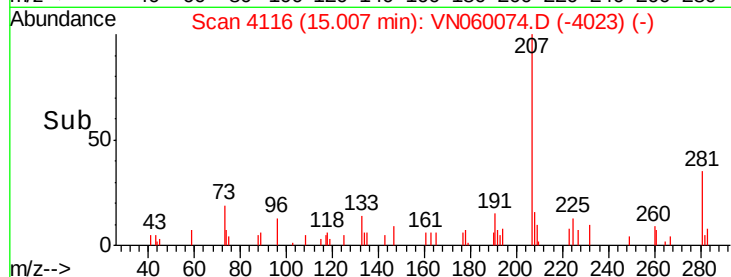
227 38.6 31.8 95.4



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: 0.600 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN060074.D

Acq: 12 Feb 2020 15:09

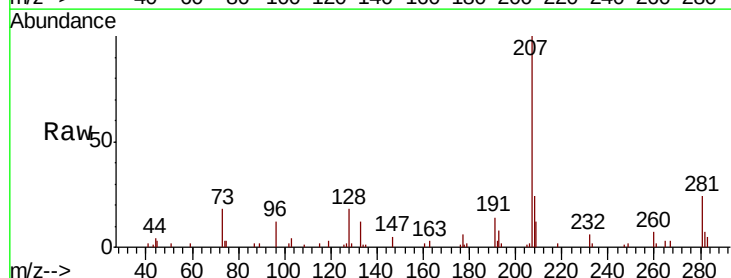
Tgt Ion:128 Resp: 3665

Ion Ratio Lower Upper

128 100

127 9.7 10.3 15.5#

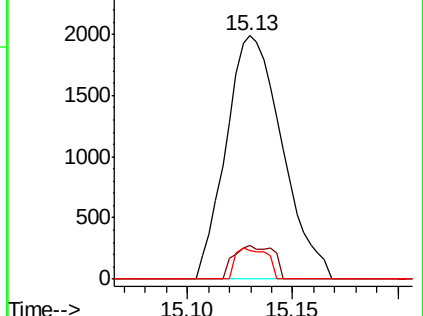
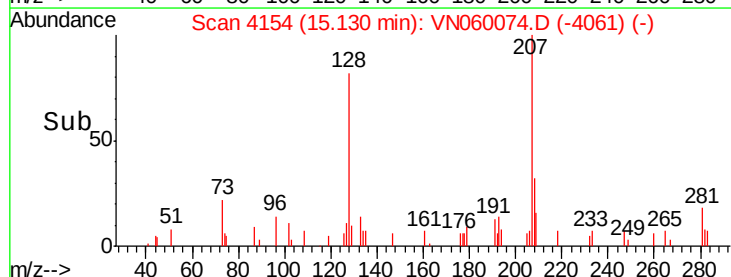
129 7.1 8.6 13.0#

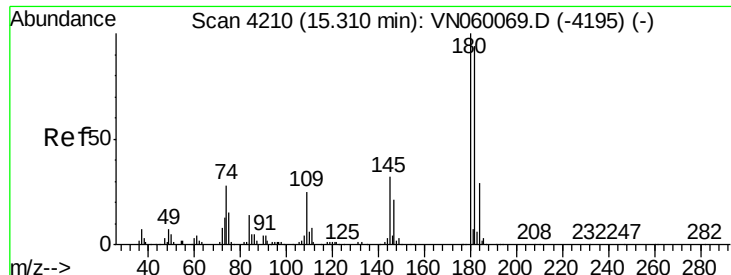


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

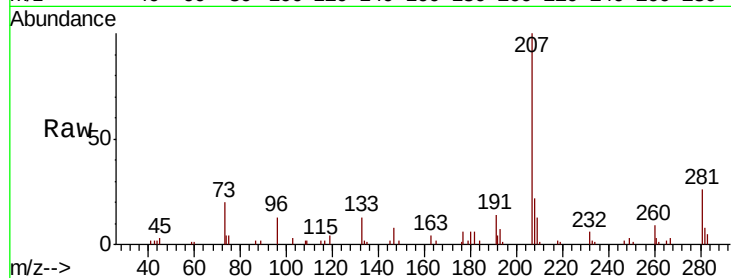




#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.629 ug/l  
 RT: 15.31 min Scan# 4210  
 Delta R.T. -0.00 min  
 Lab File: VN060074.D  
 Acq: 12 Feb 2020 15:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 90.1  | 47.5  | 142.5 |
| 145     | 32.3  | 16.1  | 48.3  |



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

