

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102619\  
 Data File : VN058974.D  
 Acq On : 25 Oct 2019 10:19  
 Operator : JC/SP  
 Sample : VN1026MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 25 23:02:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 366793   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 587150   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 517767   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 185597   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 272878   | 50.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.44% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 194934   | 50.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.00% |          |
| 50) Toluene-d8              | 10.08 | 98   | 732952   | 48.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.82%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 228919   | 41.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.20%  |          |

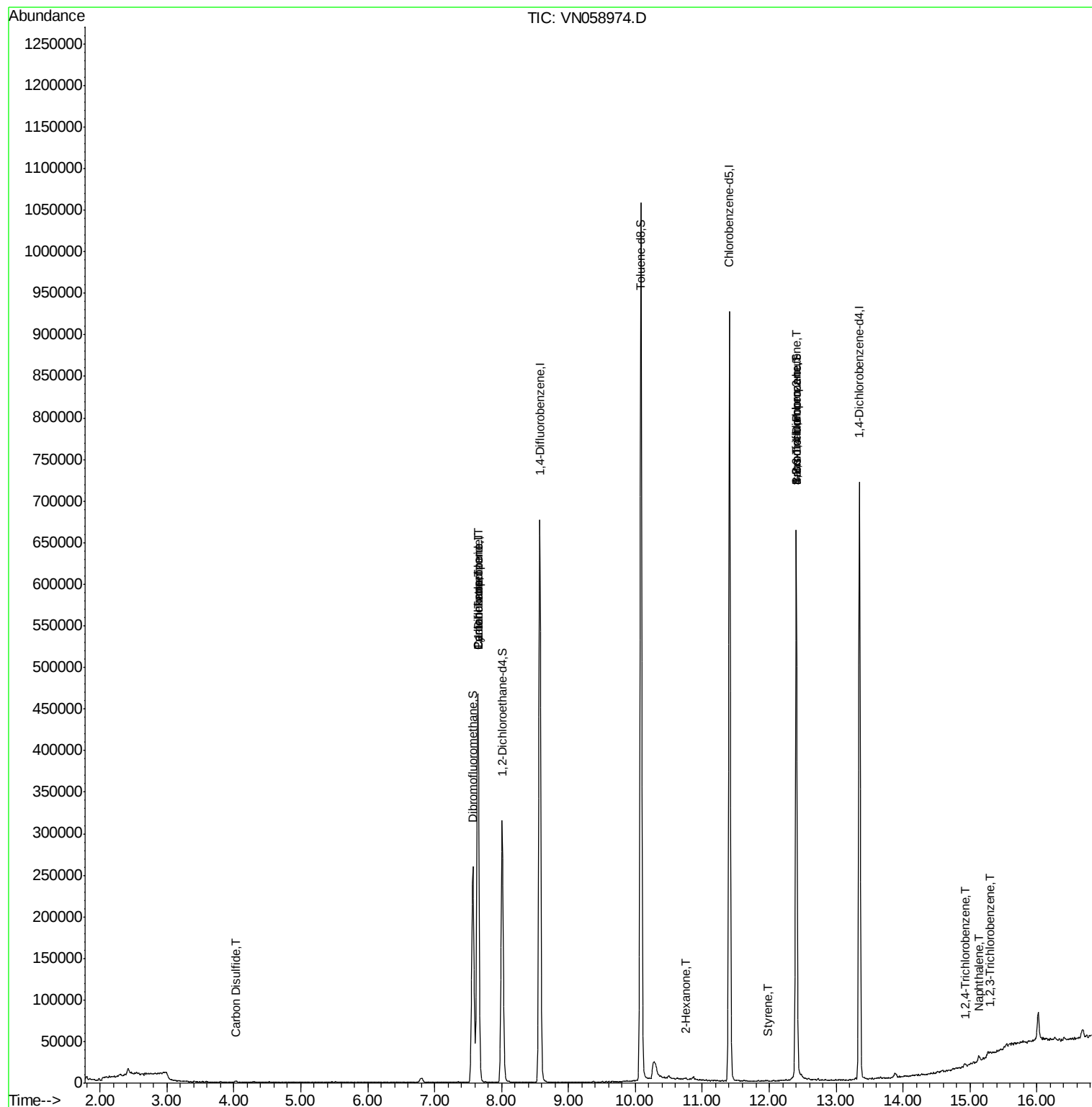
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 17) Carbon Disulfide           | 4.02  | 76   | 2376     | 0.204  | ug/l # | 75     |
| 31) Cyclohexane                | 7.65  | 56   | 8850     | 1.145  | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 31735    | 5.279  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 38410    | 6.202  | ug/l # | 16     |
| 59) 2-Hexanone                 | 10.76 | 43   | 985      | 0.208  | ug/l # | 43     |
| 70) Styrene                    | 11.97 | 104  | 485      | 1.752  | ug/l # | 37     |
| 71) Bromoform                  | 12.40 | 173  | 1296     | 0.420  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 119896   | 27.874 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 119896   | 72.613 | ug/l # | 10     |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 796      | 2.725  | ug/l   | 94     |
| 95) Naphthalene                | 15.13 | 128  | 3432     | 2.534  | ug/l # | 92     |
| 96) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 914      | 2.636  | ug/l   | 97     |

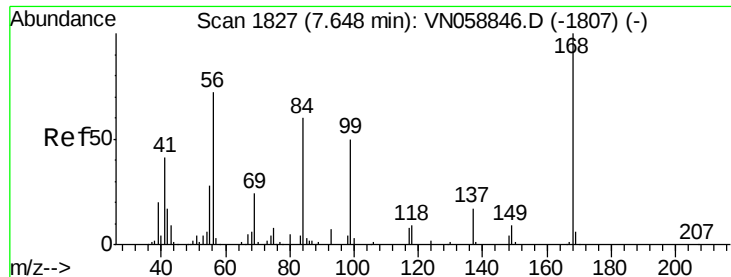
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102619\  
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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 25 23:02:21 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 19 00:16:20 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

Instrument :

MSVOA\_N

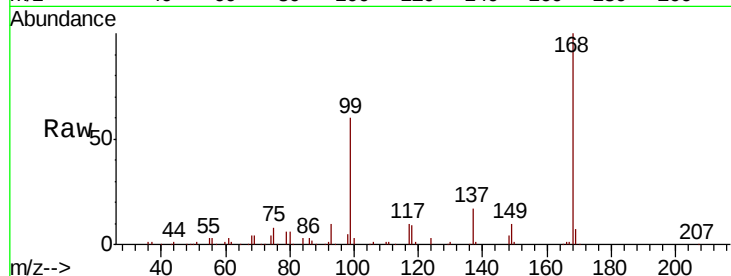
ClientSampleId :

Tot Ion:168 Resp: 366793

Ion Ratio Lower Upper

168 100

99 60.1 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VN058846.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN058846.D (-1807) (-)

7.65

150000

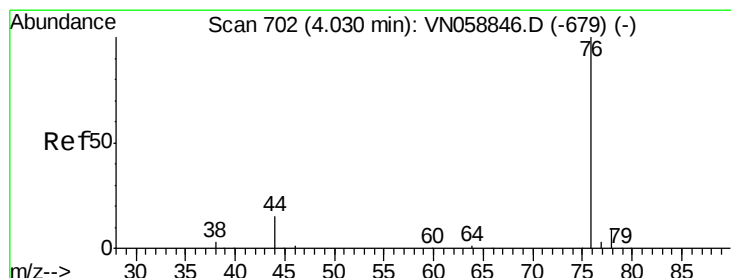
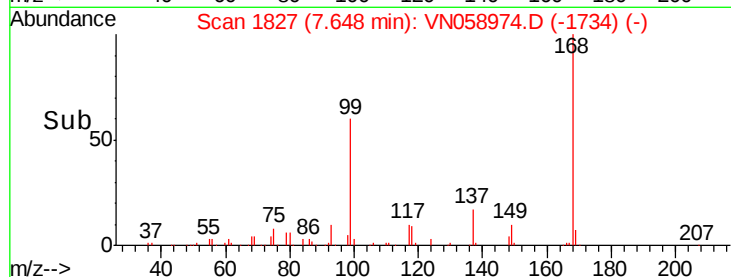
100000

50000

0

7.60 7.70

Time-->



#17

Carbon Disulfide

Concen: 0.204 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058974.D

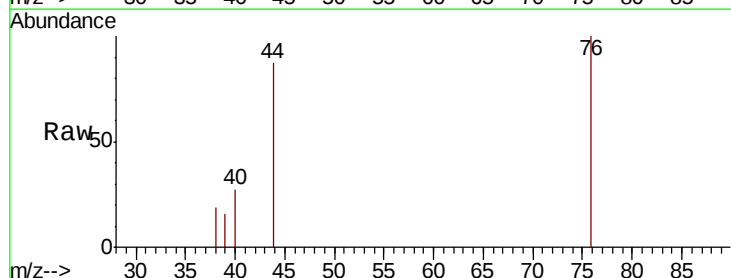
Acq: 25 Oct 2019 10:19

Tgt Ion: 76 Resp: 2376

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN058846.D (-679) (-)

Ion 77.90 (77.60 to 78.60): VN058846.D (-679) (-)

4.02

1000

800

600

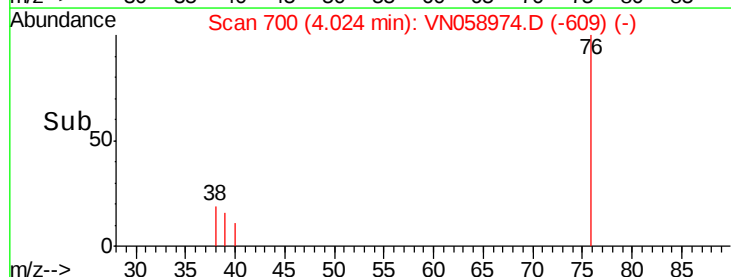
400

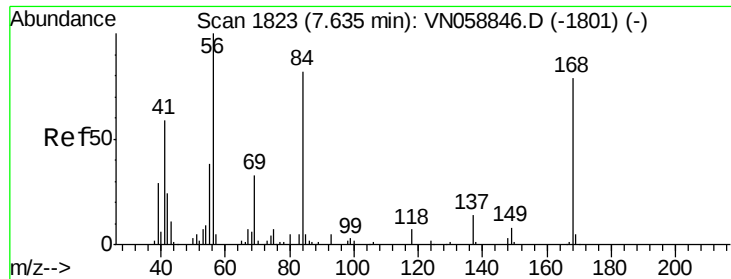
200

0

3.95 4.00 4.05

Time-->

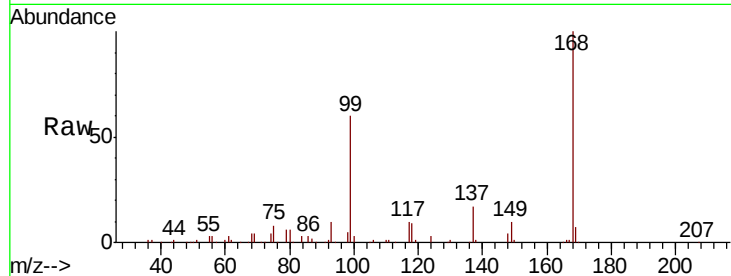




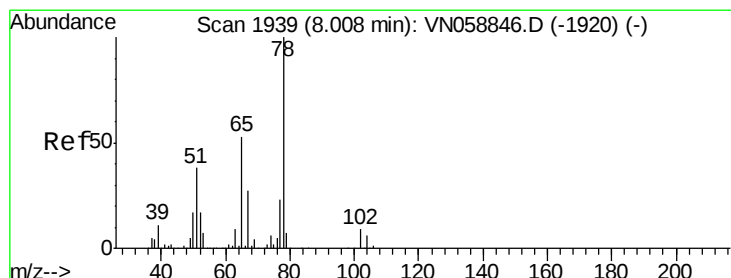
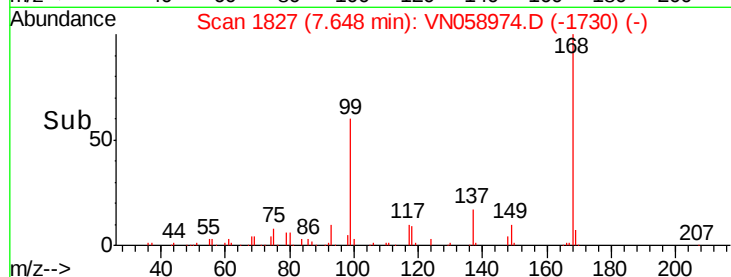
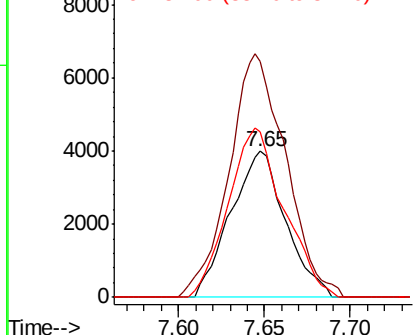
#31  
Cyclohexane  
Concen: 1.145 ug/l  
RT: 7.65 min Scan# 1827  
Delta R.T. 0.01 min  
Lab File: VN058974.D  
Acq: 25 Oct 2019 10:19

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 56 Resp: 8850  
Ion Ratio Lower Upper  
56 100  
69 155.2 26.2 39.4#  
84 113.2 65.6 98.4#

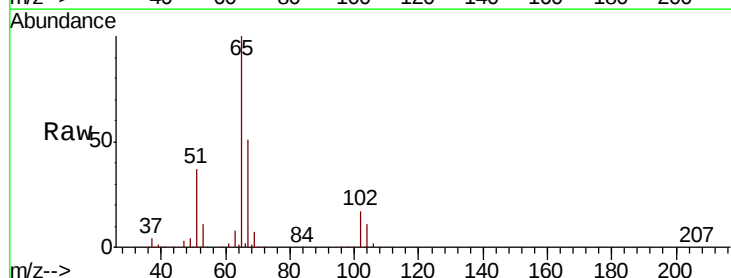


Abundance Ion 56.00 (55.70 to 56.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 84.00 (83.70 to 84.70): VNC

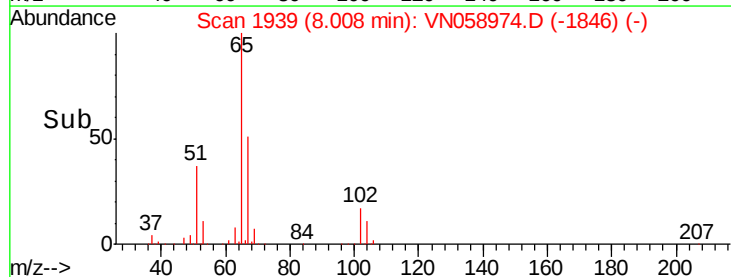
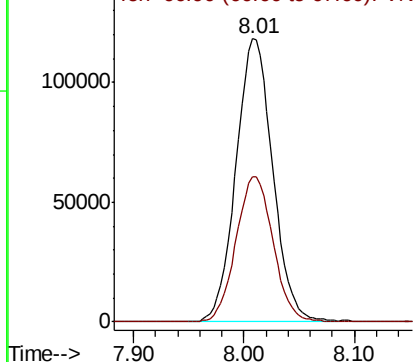


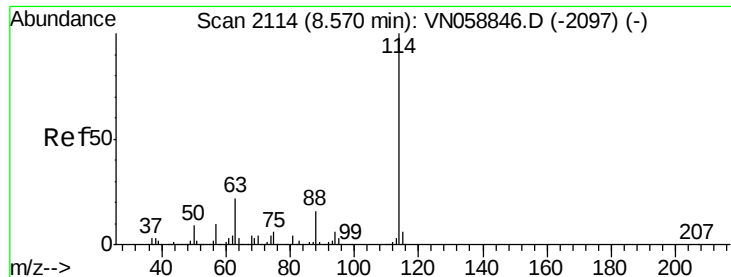
#33  
1,2-Dichloroethane-d4  
Concen: 50.725 ug/l  
RT: 8.01 min Scan# 1939  
Delta R.T. 0.00 min  
Lab File: VN058974.D  
Acq: 25 Oct 2019 10:19

Tgt Ion: 65 Resp: 272878  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 103.2



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

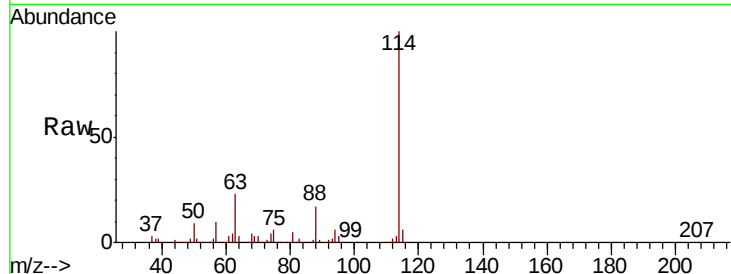




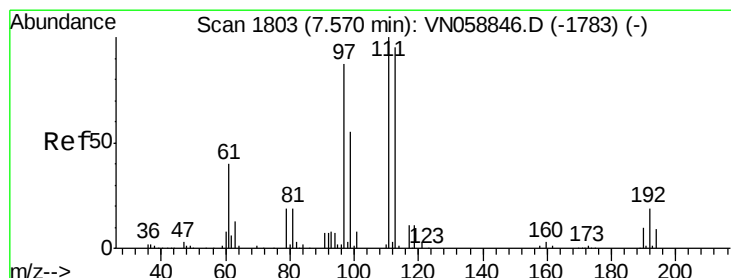
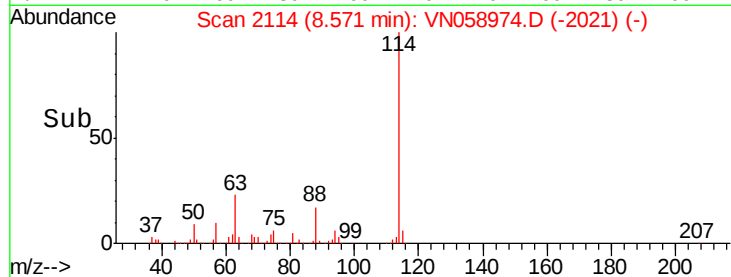
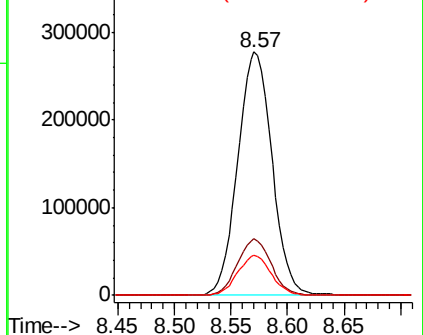
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VN058974.D  
 Acq: 25 Oct 2019 10:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.1  | 0.0   | 44.4  |
| 88      | 16.6  | 0.0   | 31.4  |

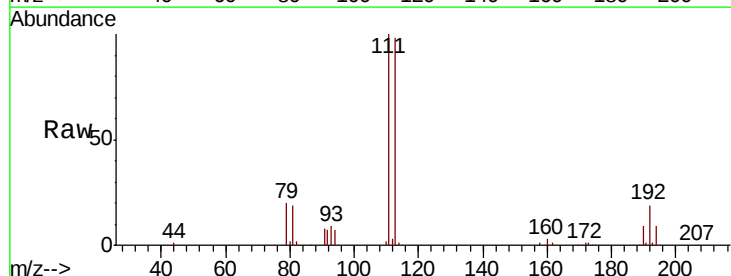


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

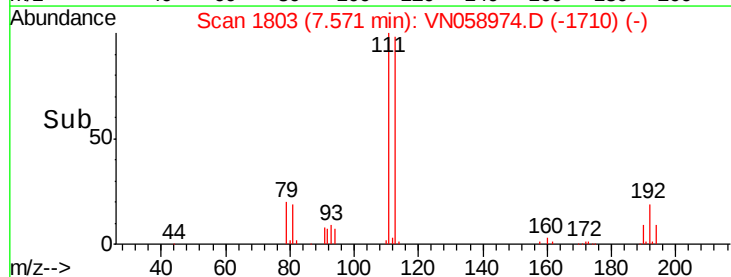
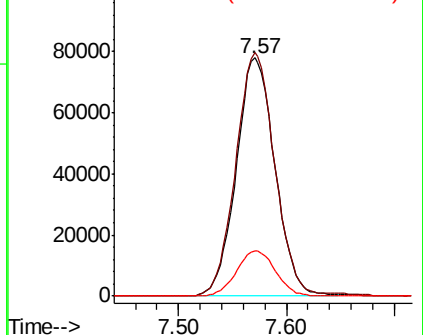


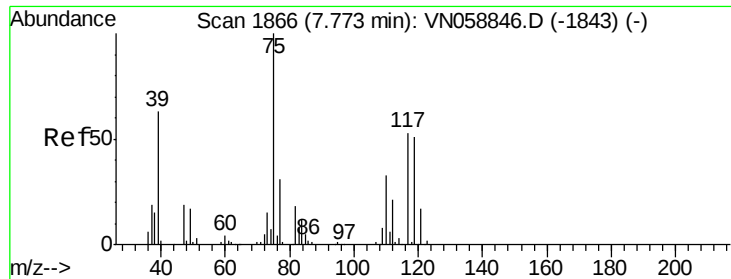
#35  
 Dibromofluoromethane  
 Concen: 50.496 ug/l  
 RT: 7.57 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VN058974.D  
 Acq: 25 Oct 2019 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 82.0  | 123.0 |
| 192     | 19.1  | 15.0  | 22.6  |



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

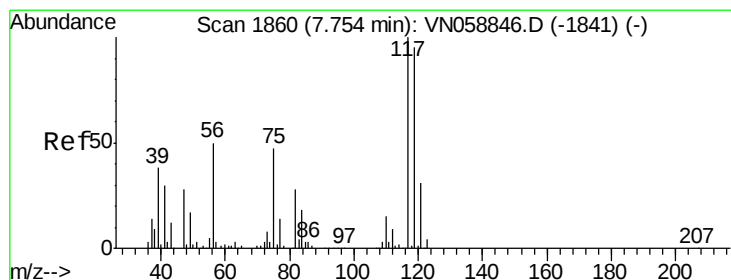
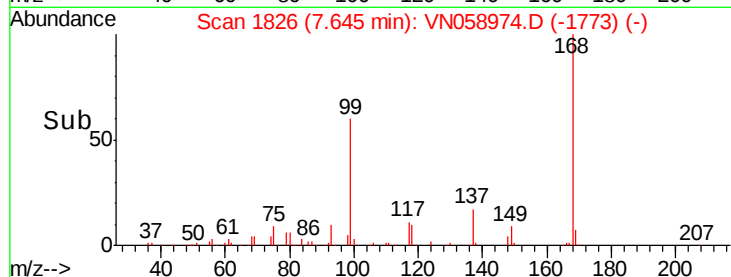
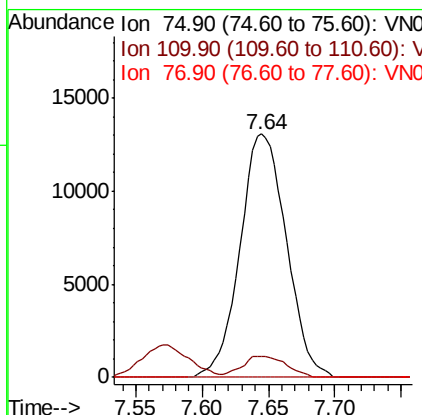
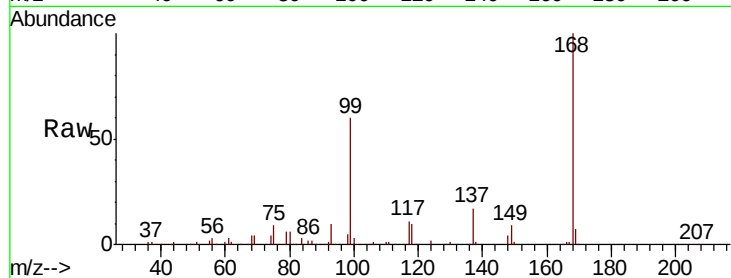




#36  
 1,1-Dichloropropene  
 Concen: 5.279 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.13 min  
 Lab File: VN058974.D  
 Acq: 25 Oct 2019 10:19

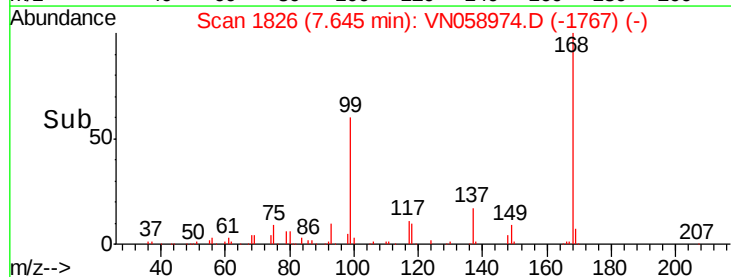
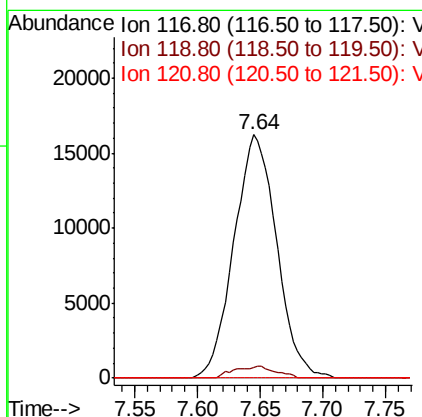
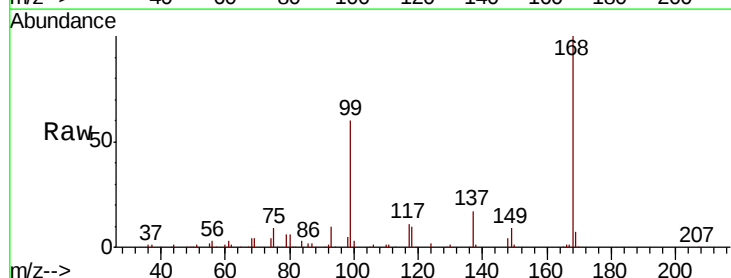
Instrument :  
 MSVOA\_N  
 ClientSampled :

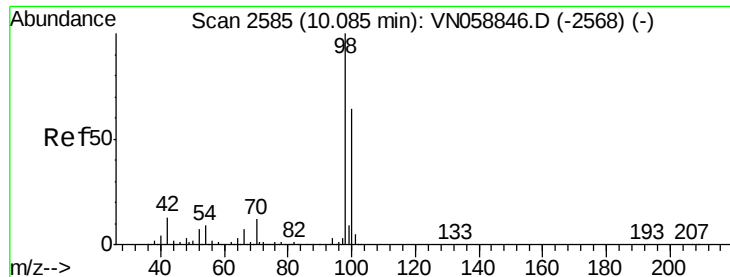
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.2   | 16.3  | 48.9# |
| 77      | 0.0   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 6.202 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.11 min  
 Lab File: VN058974.D  
 Acq: 25 Oct 2019 10:19

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.3   | 75.7  | 113.5# |
| 121     | 0.0   | 25.0  | 37.6#  |





#50

Toluene-d8

Concen: 48.911 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

Instrument :

MSVOA\_N

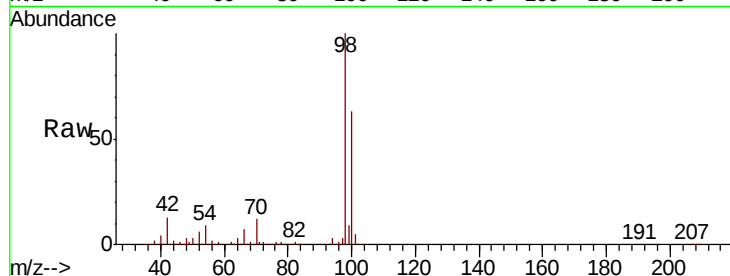
ClientSampleId :

Tot Ion: 98 Resp: 732952

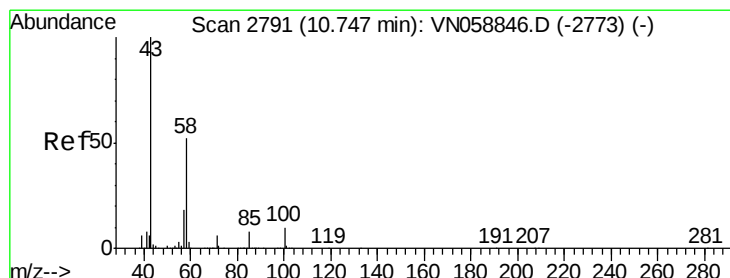
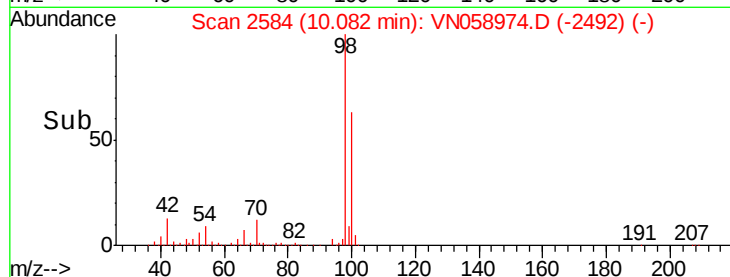
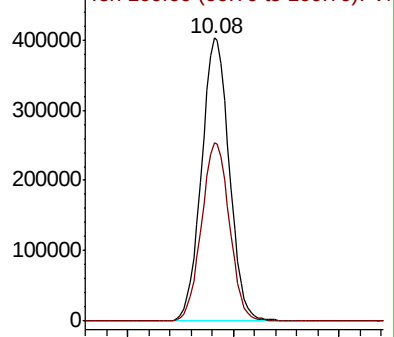
Ion Ratio Lower Upper

98 100

100 63.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)



#59

2-Hexanone

Concen: 0.208 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN058974.D

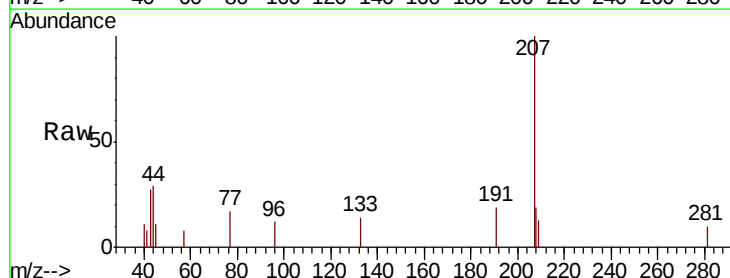
Acq: 25 Oct 2019 10:19

Tgt Ion: 43 Resp: 985

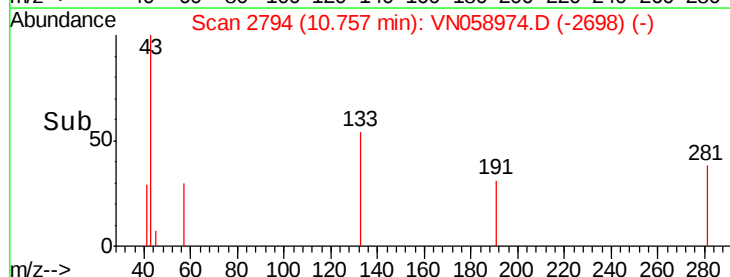
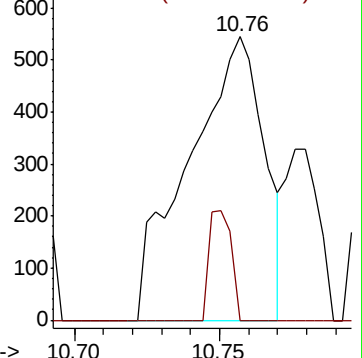
Ion Ratio Lower Upper

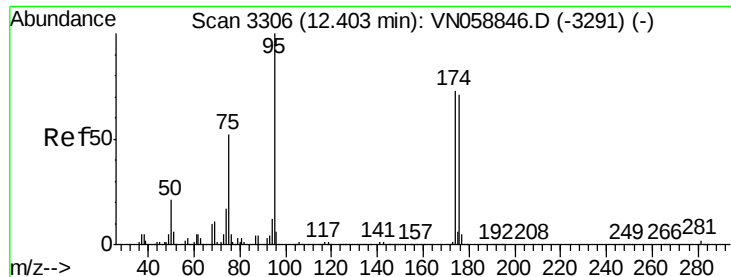
43 100

58 11.6 25.9 77.7#



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-2773) (-)





#62

4-Bromofluorobenzene

Concen: 41.599 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

Instrument :

MSVOA\_N

ClientSampleId :

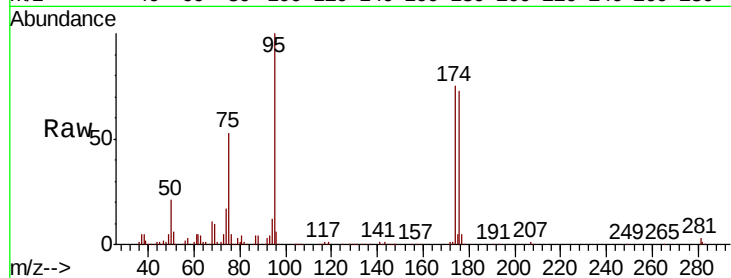
Tot Ion: 95 Resp: 228919

Ion Ratio Lower Upper

95 100

174 76.3 0.0 147.6

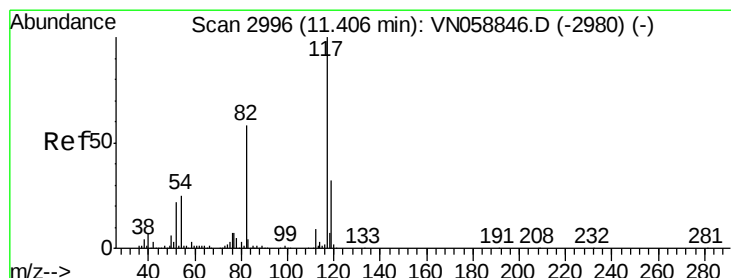
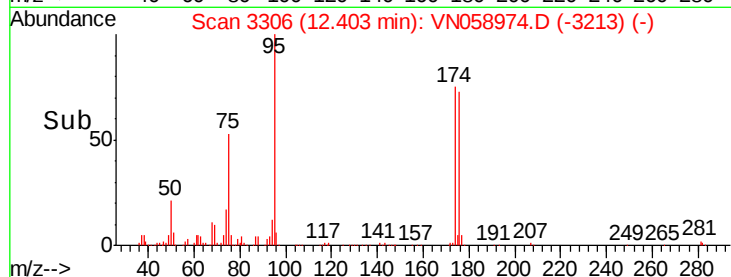
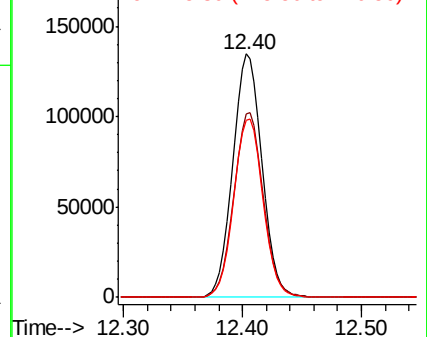
176 73.7 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

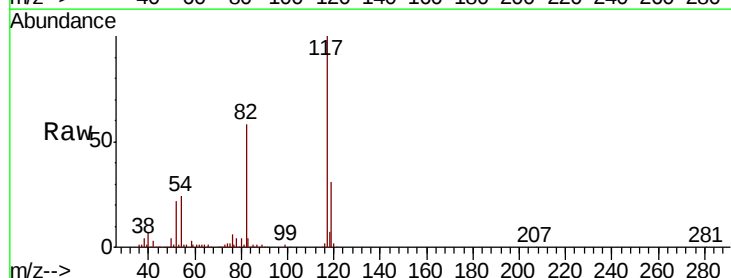
Tgt Ion: 117 Resp: 517767

Ion Ratio Lower Upper

117 100

82 58.4 46.6 69.8

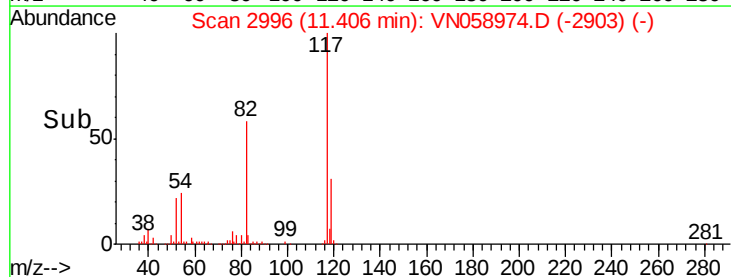
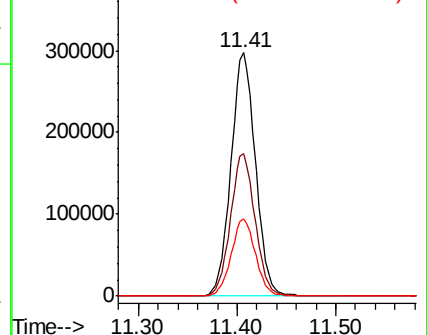
119 31.5 25.6 38.4

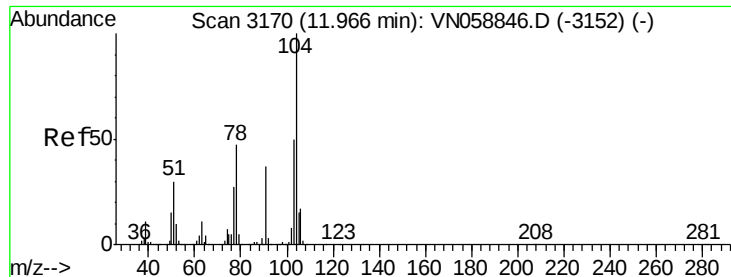


Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)





#70

Stvrene

Concen: 1.752 ug/l

RT: 11.97 min Scan# 3171

Delta R.T. 0.00 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

Instrument :

MSVOA\_N

ClientSampleId :

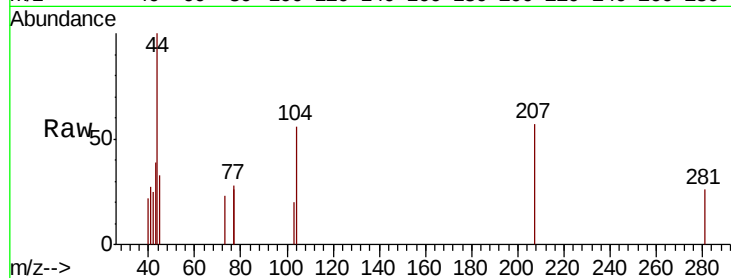
Tot Ion:104 Resp: 485

Ion Ratio Lower Upper

104 100

78 6.2 42.8 64.2#

103 12.4 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V

11.97

400

300

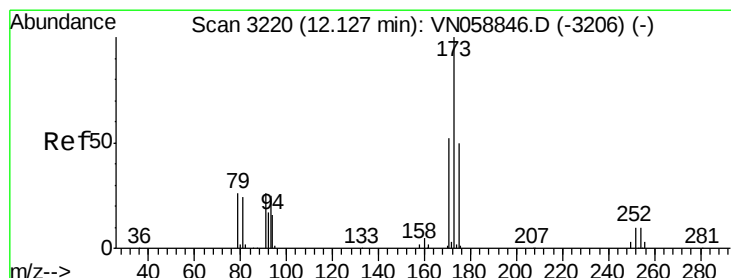
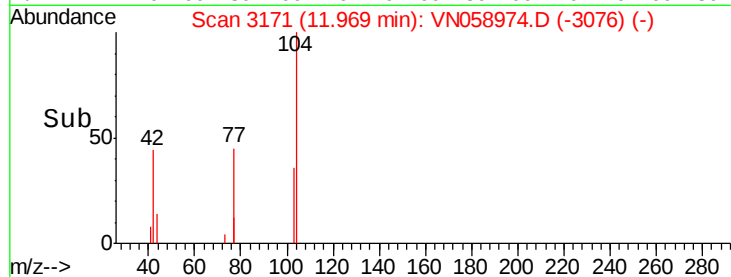
200

100

0

11.94 11.96 11.98

Time-->



#71

Bromoform

Concen: 0.420 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

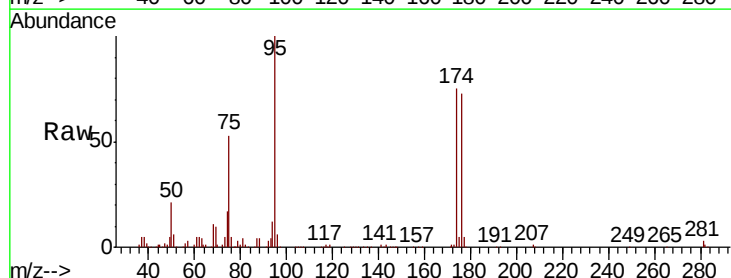
Tgt Ion:173 Resp: 1296

Ion Ratio Lower Upper

173 100

175 758.5 24.7 74.1#

254 0.0 0.0 0.0



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

12.40

8000

6000

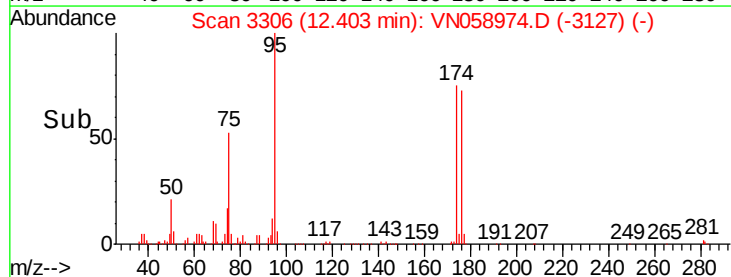
4000

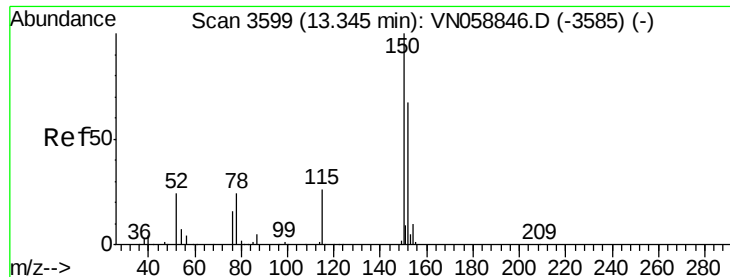
2000

0

12.36 12.38 12.40 12.42

Time-->



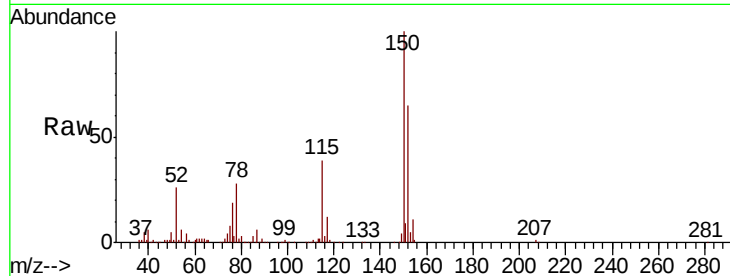


#72

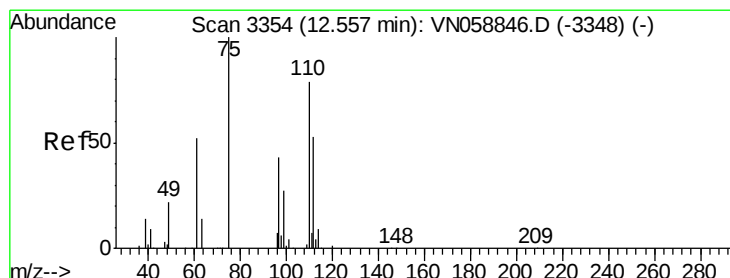
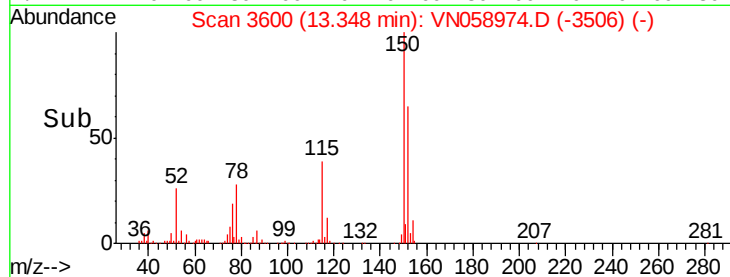
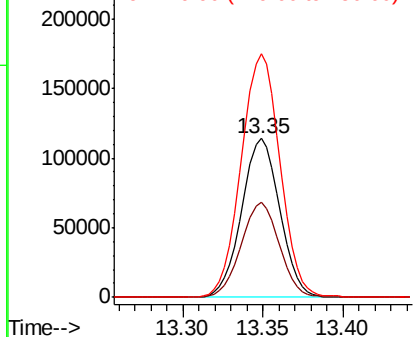
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN058974.D  
Acq: 25 Oct 2019 10:19

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.0  | 30.5  | 91.5  |
| 150     | 156.2 | 0.0   | 344.4 |



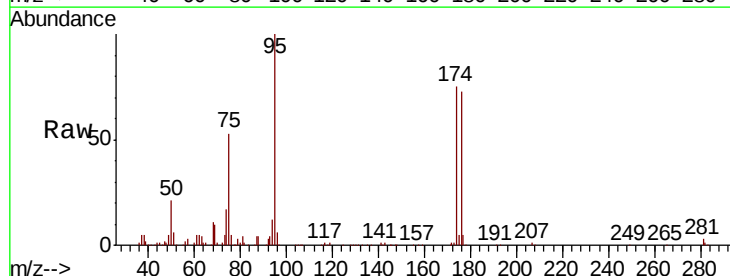
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



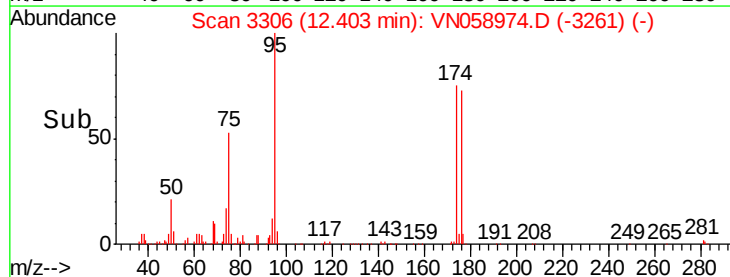
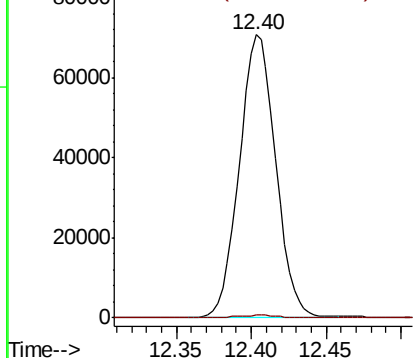
#76

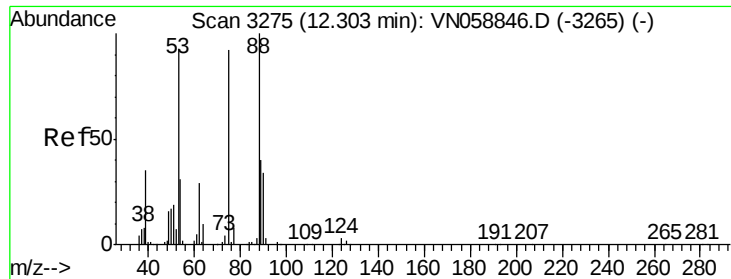
1,2,3-Trichloropropane  
Concen: 27.874 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. -0.15 min  
Lab File: VN058974.D  
Acq: 25 Oct 2019 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.1   | 0.0   | 0.0#  |



Abundance Ion 74.90 (74.60 to 75.60): V  
Ion 77.00 (76.70 to 77.70): V

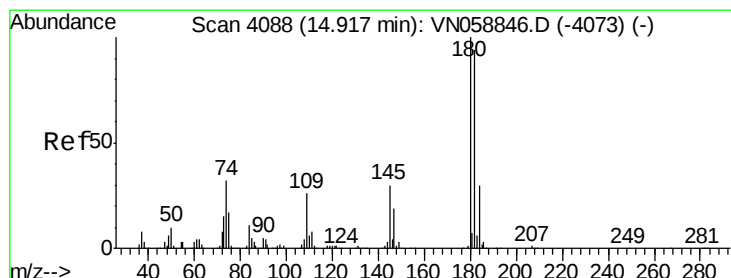
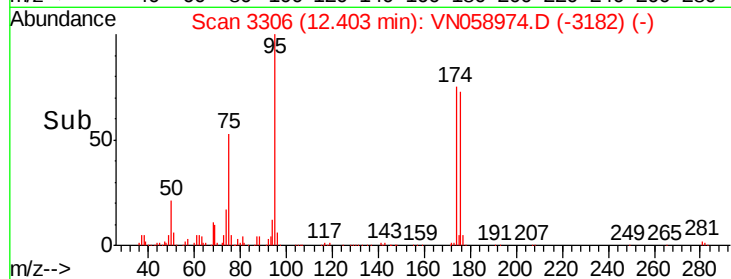
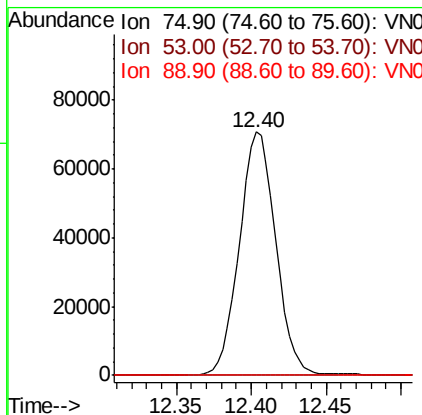
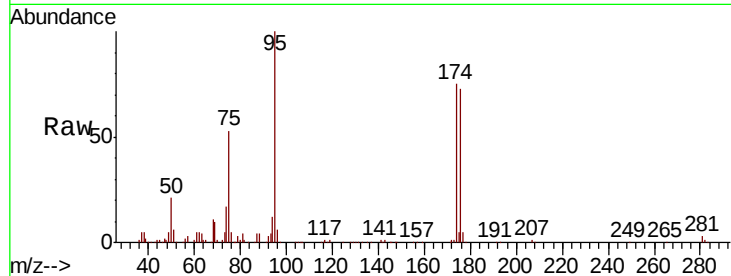




#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.613 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.10 min  
Lab File: VN058974.D  
Acq: 25 Oct 2019 10:19

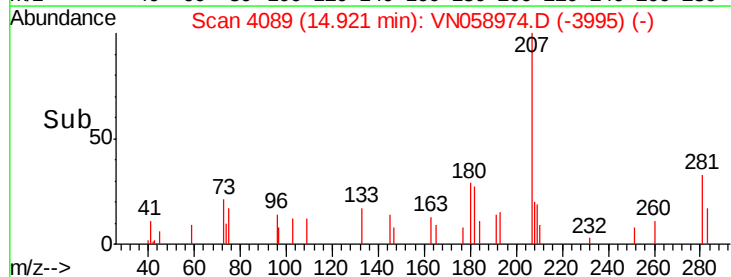
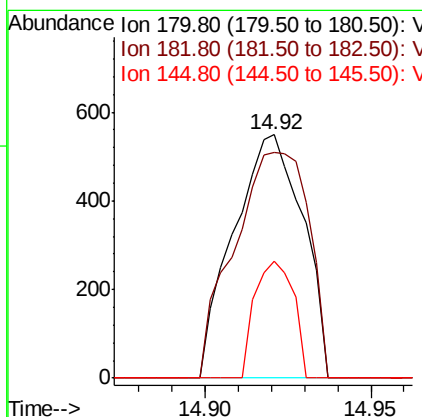
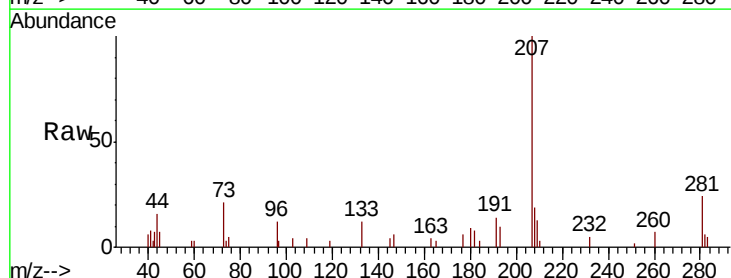
Instrument :  
MSVOA\_N  
ClientSampled :

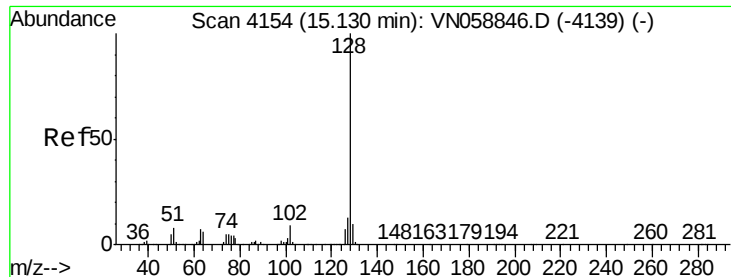
Tot Ion: 75 Resp: 119896  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.6 118.0#  
89 0.0 35.4 53.0#



#93  
1,2,4-Trichlorobenzene  
Concen: 2.725 ug/l  
RT: 14.92 min Scan# 4089  
Delta R.T. 0.00 min  
Lab File: VN058974.D  
Acq: 25 Oct 2019 10:19

Tgt Ion:180 Resp: 796  
Ion Ratio Lower Upper  
180 100  
182 99.7 47.3 142.0  
145 26.6 15.3 45.8





#95

Naphthalene

Concen: 2.534 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

Instrument :

MSVOA\_N

ClientSampled :

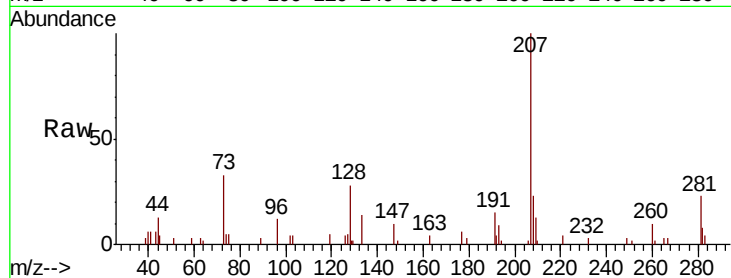
Tot Ion:128 Resp: 3432

Ion Ratio Lower Upper

128 100

127 11.6 10.2 15.2

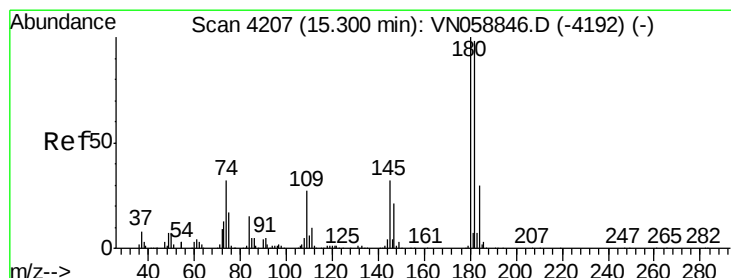
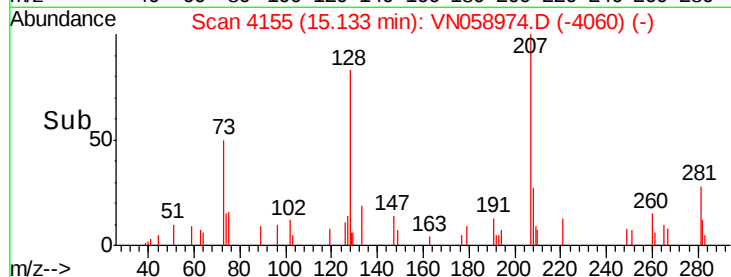
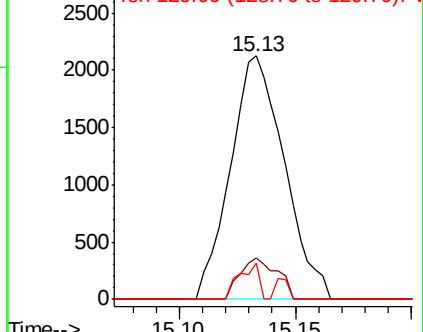
129 5.3 8.4 12.6#



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: 2.636 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058974.D

Acq: 25 Oct 2019 10:19

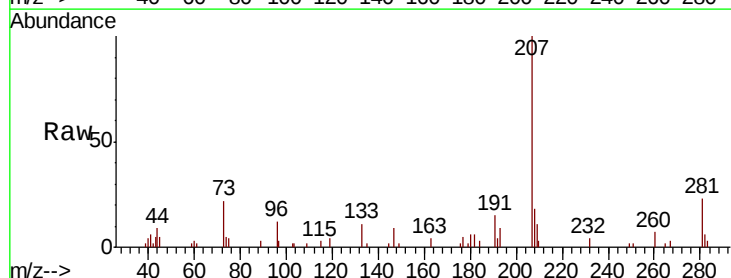
Tgt Ion:180 Resp: 914

Ion Ratio Lower Upper

180 100

182 93.5 47.9 143.7

145 33.8 15.9 47.7



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

