

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\  
 Data File : VN059241.D  
 Acq On : 14 Nov 2019 17:56  
 Operator : JC/SP  
 Sample : K5670-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OK-03-111219

Quant Time: Nov 15 08:04:32 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

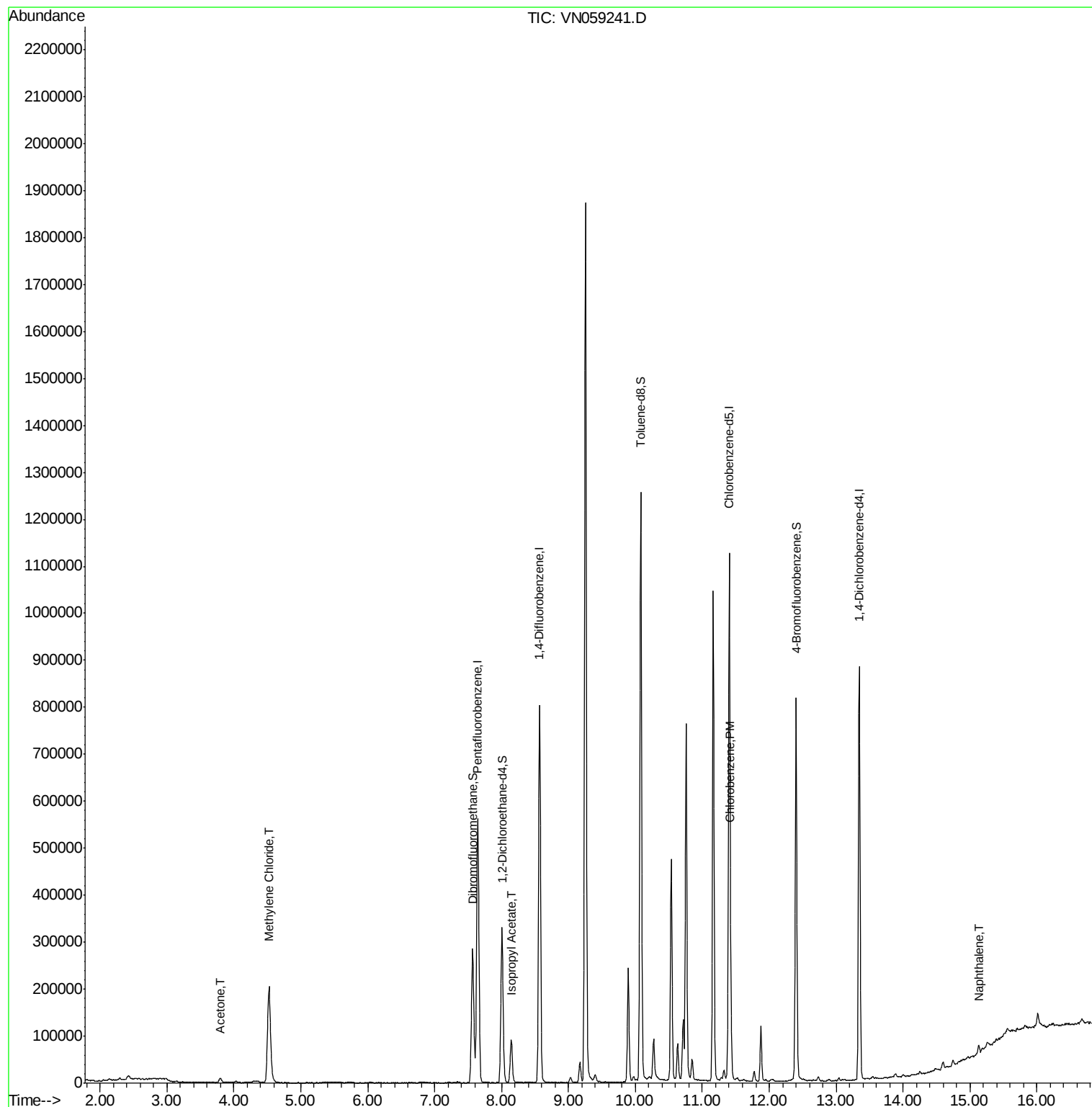
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.64  | 168  | 471089   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 732368   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.40 | 117  | 650999   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 243583   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 285139   | 49.24  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.48%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 218589   | 49.99  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 99.98%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 892771   | 51.83  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.66% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 287873   | 46.35  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 92.70%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 3.80  | 43   | 15391    | 5.111  | ug/l    | 96       |
| 20) Methylene Chloride      | 4.53  | 84   | 160396   | 30.573 | ug/l    | 99       |
| 43) Isopropyl Acetate       | 8.14  | 43   | 108474   | 8.935  | ug/l #  | 92       |
| 65) Chlorobenzene           | 11.43 | 112  | 49306    | 3.885  | ug/l    | 96       |
| 95) Naphthalene             | 15.13 | 128  | 12753    | 3.994  | ug/l    | 99       |

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

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Quant Method : Z:\V0ASRV\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: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA\_N

ClientSampleId :

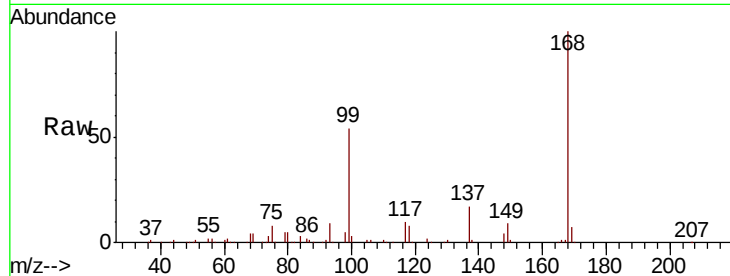
OK-03-111219

Tot Ion:168 Resp: 471089

Ion Ratio Lower Upper

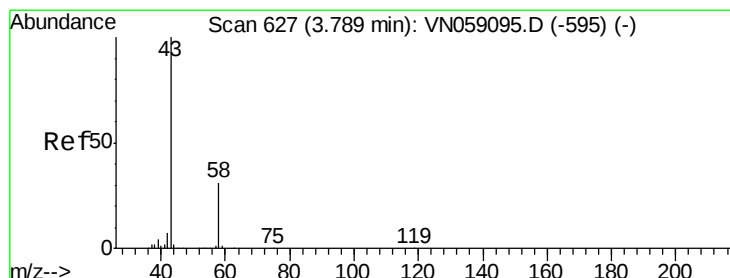
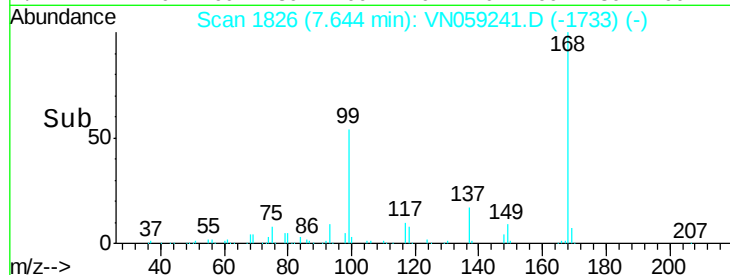
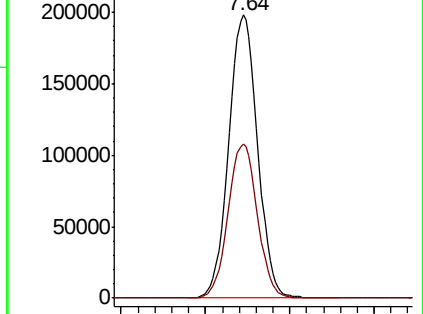
168 100

99 54.4 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 5.111 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059241.D

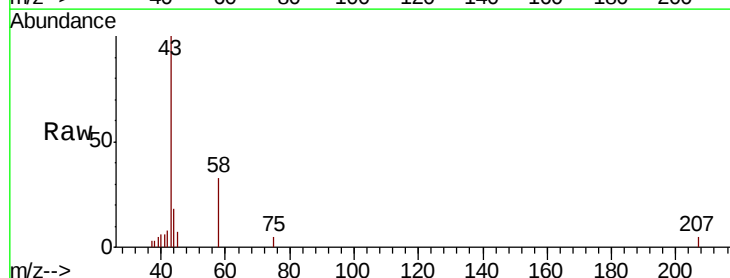
Acq: 14 Nov 2019 17:56

Tgt Ion: 43 Resp: 15391

Ion Ratio Lower Upper

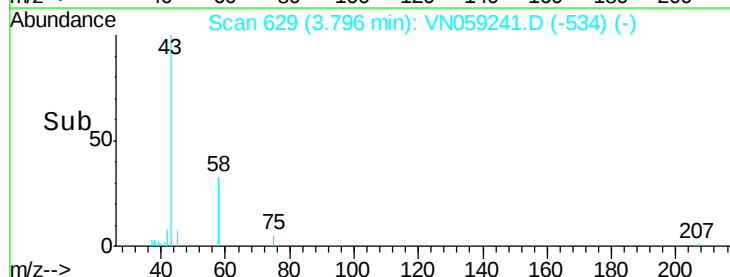
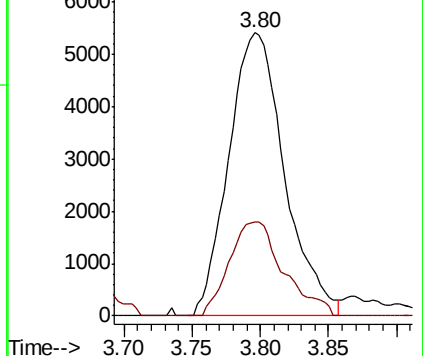
43 100

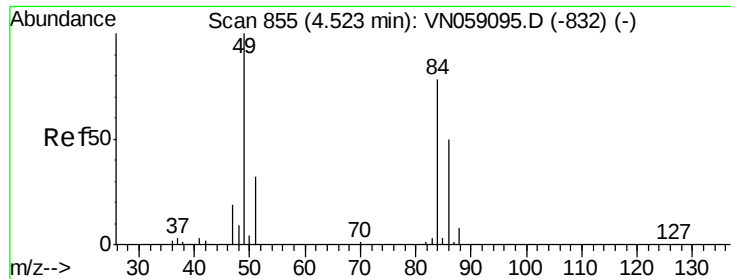
58 33.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

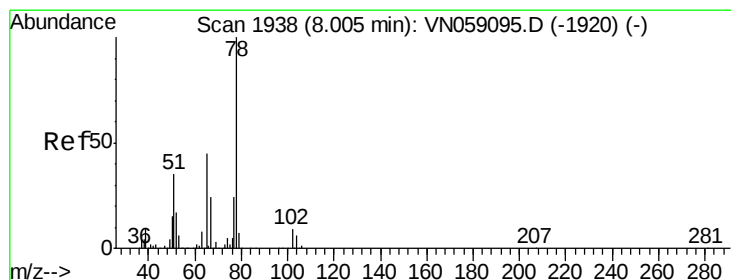
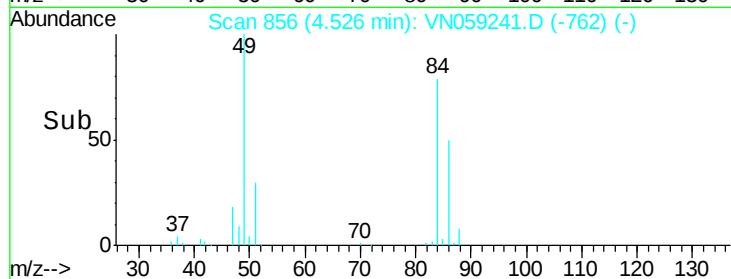
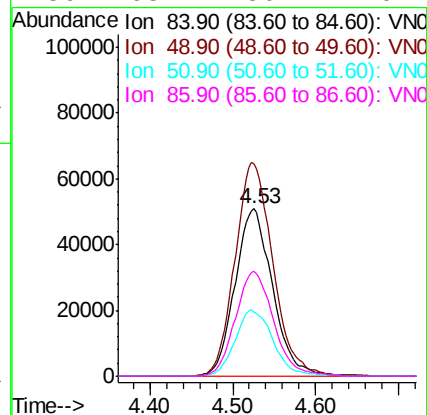
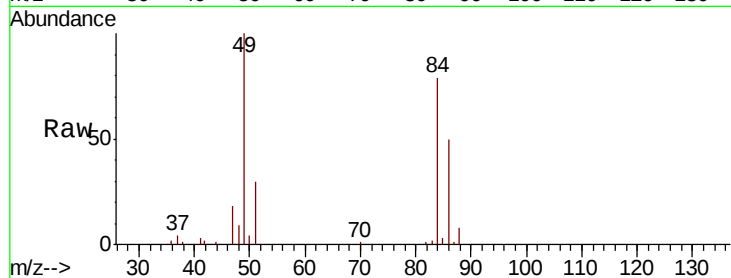




#20  
Methylene Chloride  
Concen: 30.573 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: VN059241.D  
Acq: 14 Nov 2019 17:56

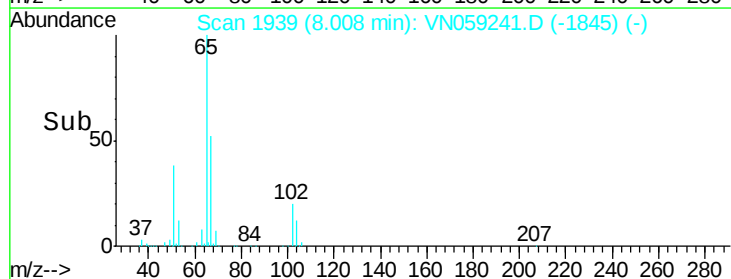
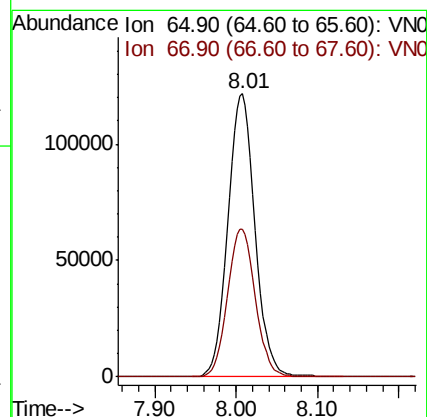
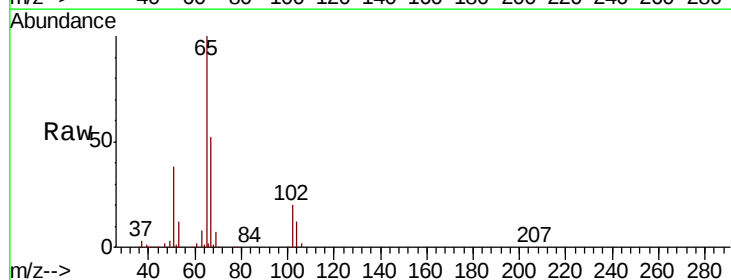
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-03-111219

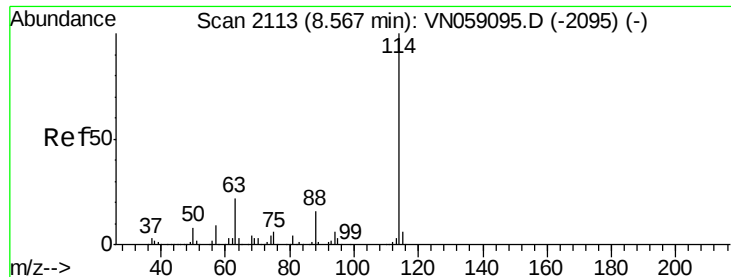
Tot Ion: 84 Resp: 160396  
Ion Ratio Lower Upper  
84 100  
49 127.1 102.0 153.0  
51 38.6 32.2 48.2  
86 63.1 50.7 76.1



#33  
1,2-Dichloroethane-d4  
Concen: 49.239 ug/l  
RT: 8.01 min Scan# 1939  
Delta R.T. 0.00 min  
Lab File: VN059241.D  
Acq: 14 Nov 2019 17:56

Tgt Ion: 65 Resp: 285139  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 107.4

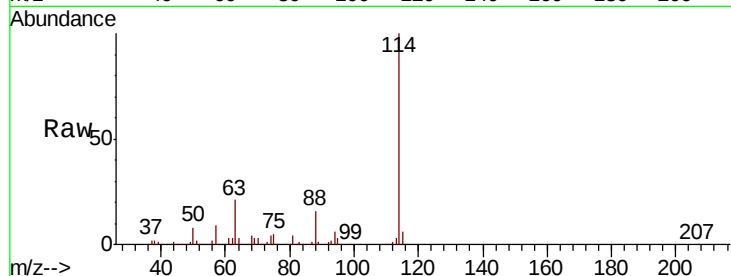




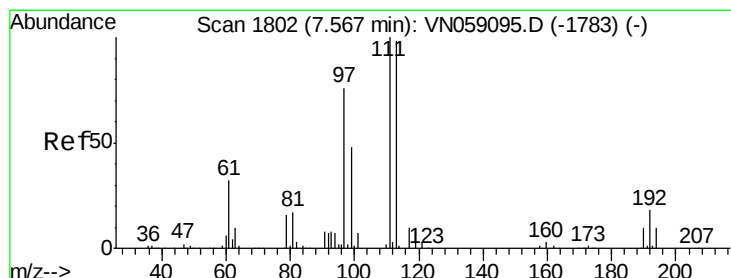
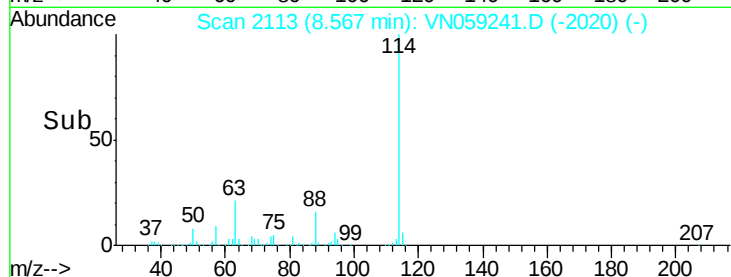
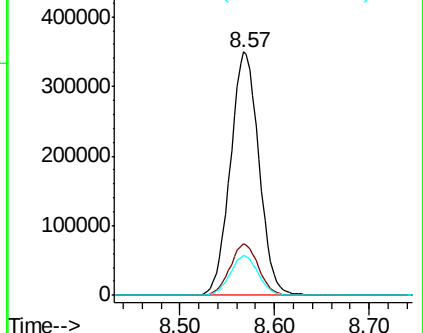
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN059241.D  
 Acq: 14 Nov 2019 17:56

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OK-03-111219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.1  | 0.0   | 43.4  |
| 88      | 16.3  | 0.0   | 32.2  |

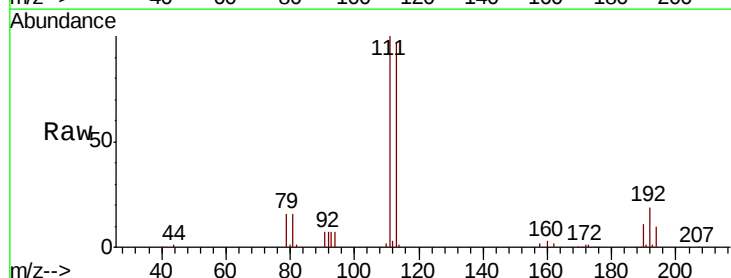


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

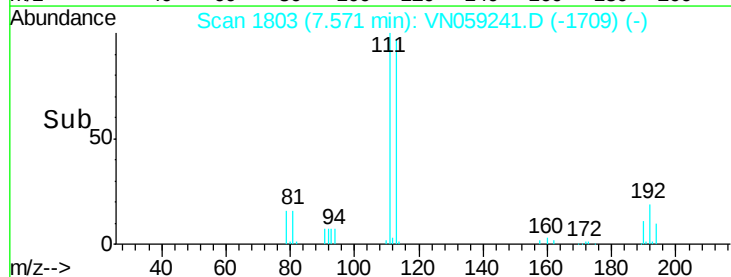
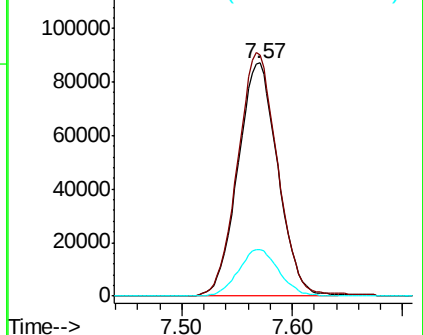


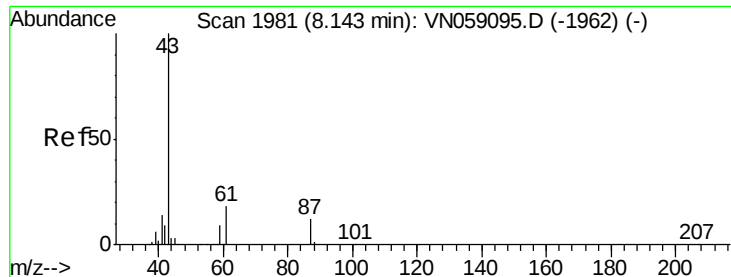
#35  
 Dibromofluoromethane  
 Concen: 49.987 ug/l  
 RT: 7.57 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VN059241.D  
 Acq: 14 Nov 2019 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.5 | 82.8  | 124.2 |
| 192     | 20.3  | 16.1  | 24.1  |



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





#43

Isopropyl Acetate

Concen: 8.935 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA\_N

ClientSampleId :

OK-03-111219

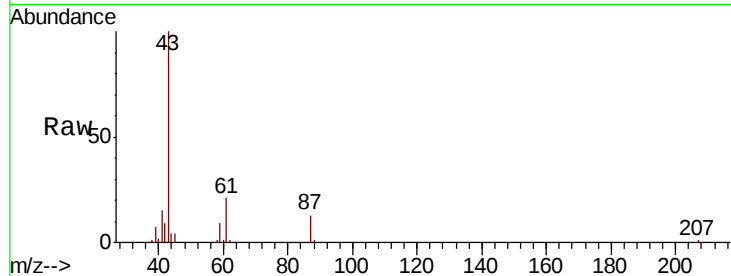
Tot Ion: 43 Resp: 108474

Ion Ratio Lower Upper

43 100

61 20.5 21.0 31.6#

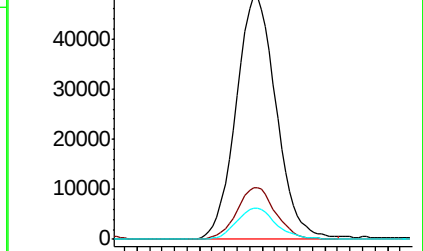
87 12.4 9.8 14.6



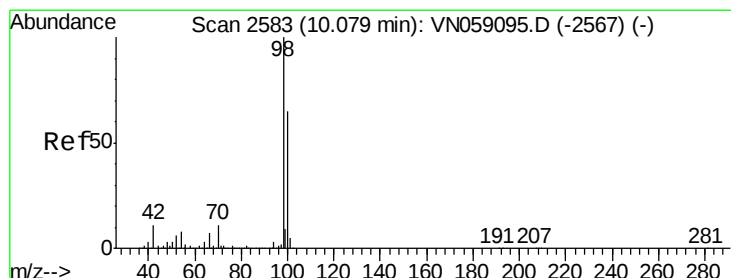
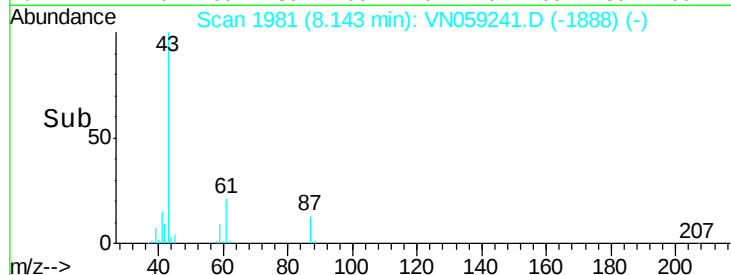
Abundance Ion 43.00 (42.70 to 43.70): VN059241.D (-1888) (-)

Ion 61.00 (60.70 to 61.70): VN059241.D (-1888) (-)

Ion 87.00 (86.70 to 87.70): VN059241.D (-1888) (-)



Time-->



#50

Toluene-d8

Concen: 51.831 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059241.D

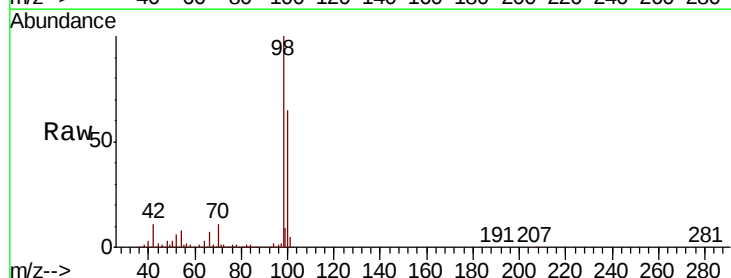
Acq: 14 Nov 2019 17:56

Tgt Ion: 98 Resp: 892771

Ion Ratio Lower Upper

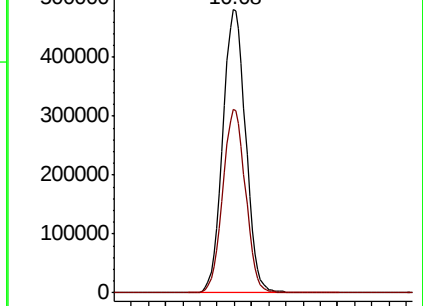
98 100

100 64.3 52.2 78.2

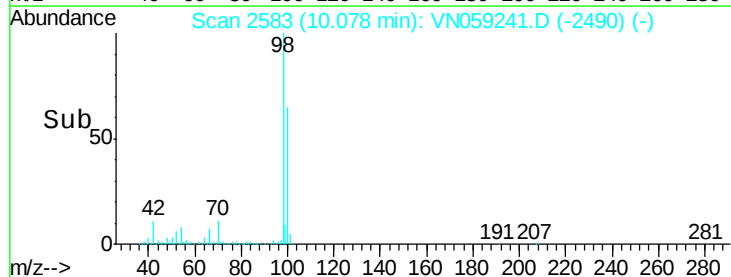


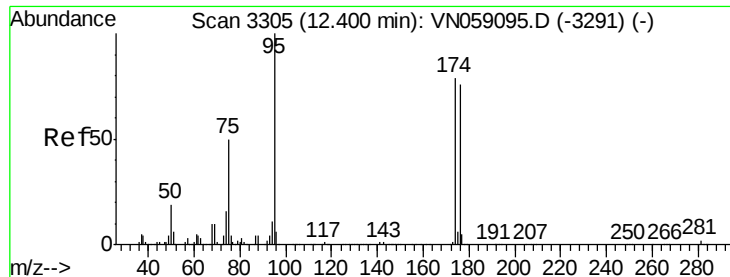
Abundance Ion 98.00 (97.70 to 98.70): VN059241.D (-2490) (-)

Ion 100.00 (99.70 to 100.70): VN059241.D (-2490) (-)



Time-->





#62

4-Bromofluorobenzene

Concen: 46.352 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA\_N

ClientSampleId :

OK-03-111219

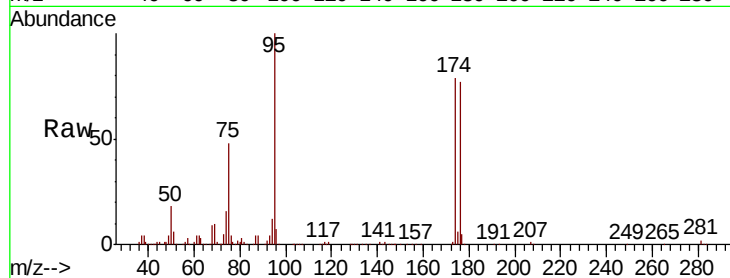
Tot Ion: 95 Resp: 287873

Ion Ratio Lower Upper

95 100

174 80.1 0.0 158.2

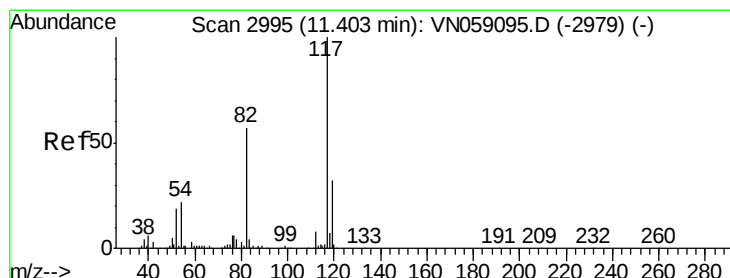
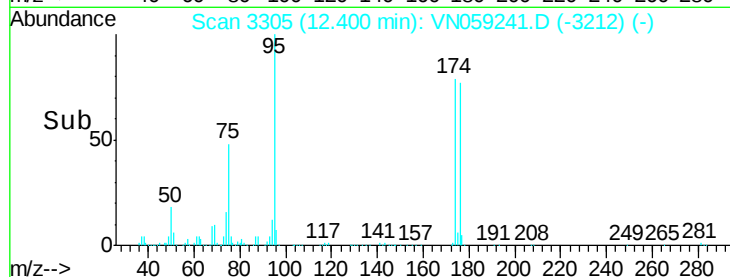
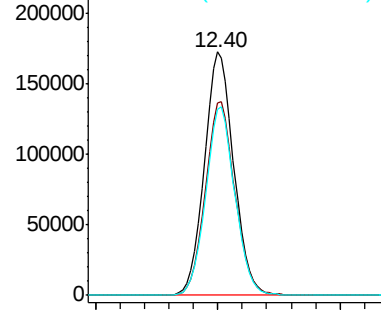
176 77.2 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN059241.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059241.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059241.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

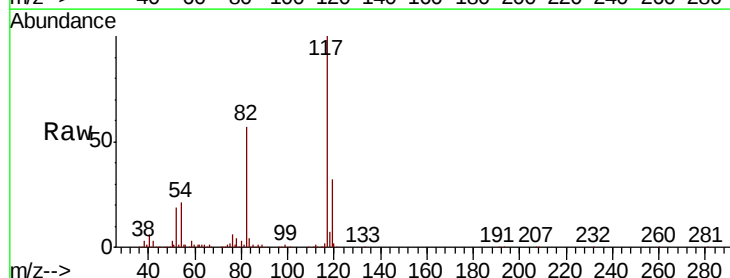
Tgt Ion: 117 Resp: 650999

Ion Ratio Lower Upper

117 100

82 57.1 45.8 68.8

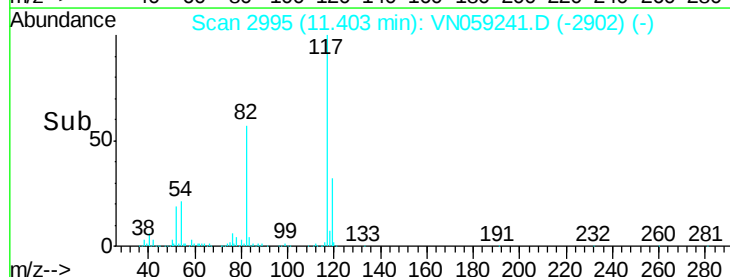
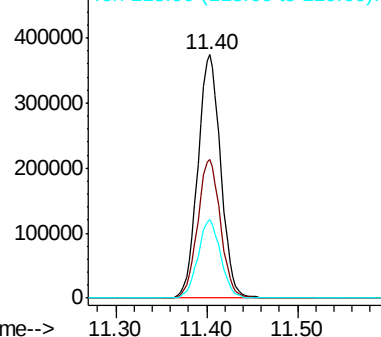
119 32.1 25.8 38.6

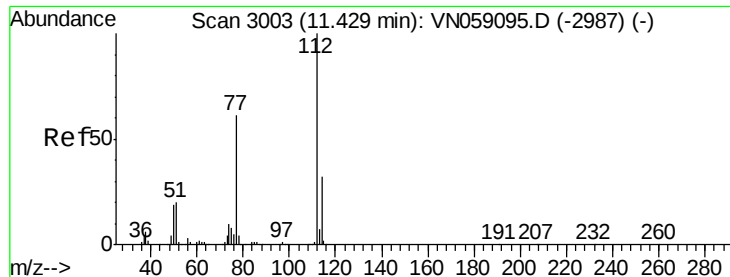


Abundance Ion 116.90 (116.60 to 117.60): VN059241.D (-2902) (-)

Ion 82.00 (81.70 to 82.70): VN059241.D (-2902) (-)

Ion 118.90 (118.60 to 119.60): VN059241.D (-2902) (-)





#65

Chlorobenzene

Concen: 3.885 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA\_N

ClientSampleId :

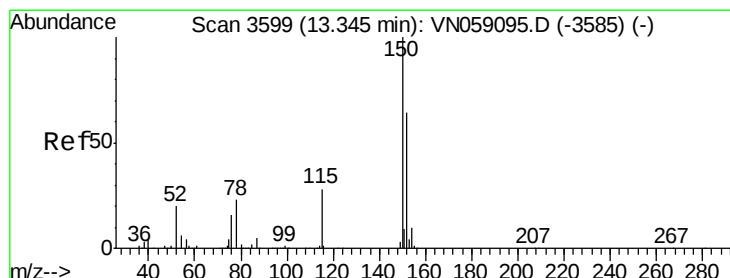
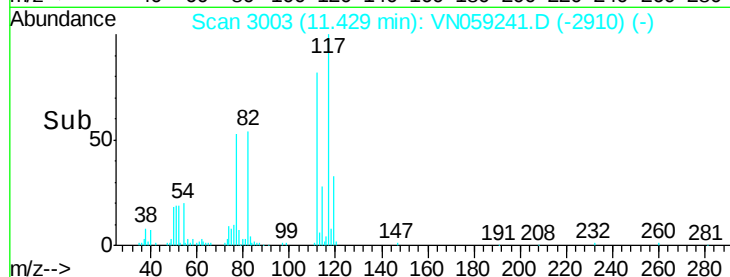
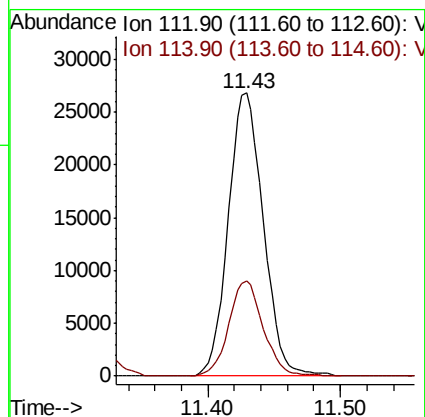
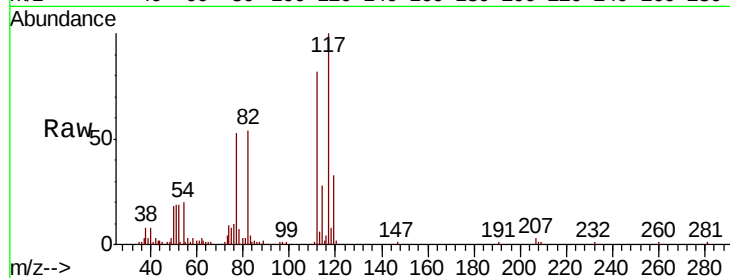
OK-03-111219

Tot Ion:112 Resp: 49306

Ion Ratio Lower Upper

112 100

114 33.6 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

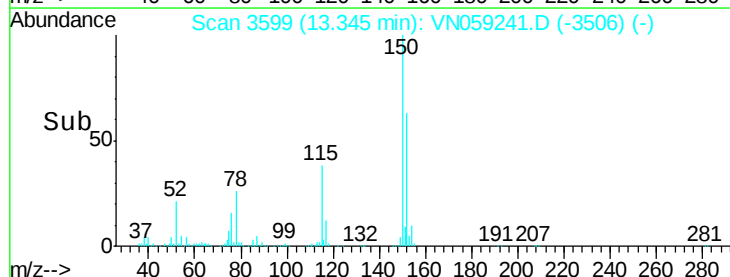
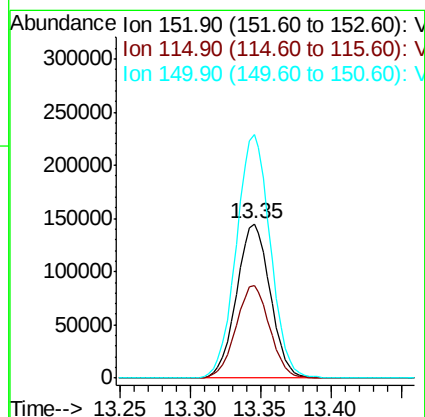
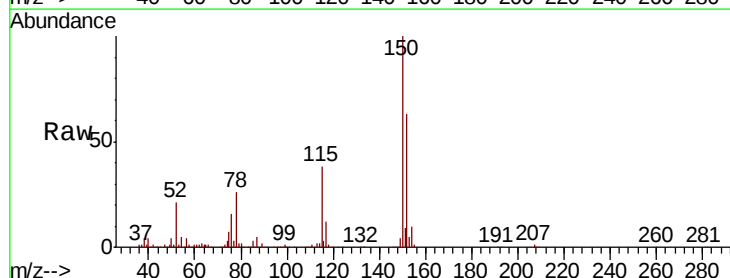
Tgt Ion:152 Resp: 243583

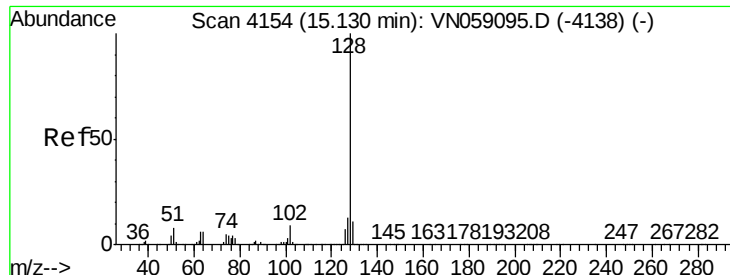
Ion Ratio Lower Upper

152 100

115 60.0 29.4 88.2

150 159.0 0.0 345.8





#95

Naphthalene

Concen: 3.994 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA\_N

ClientSampleId :

OK-03-111219

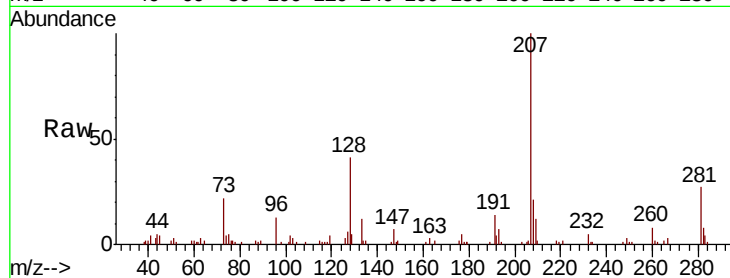
Tot Ion:128 Resp: 12753

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.2

129 11.3 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

