

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\  
 Data File : BF118070.D  
 Acq On : 3 Dec 2019 18:57  
 Operator : JU  
 Sample : K6090-03  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 04 00:35:09 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 03 15:16:53 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 144409   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 551991   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 290834   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 553955   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.07 | 240  | 377160   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.56 | 264  | 349483   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.50  | 112  | 1133168  | 138.90 | ng    | 0.01     |
| 7) Phenol-d6                | 6.51  | 99   | 1417555  | 144.06 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 879670   | 94.73  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 488162   | 158.54 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 1674641  | 103.30 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.02 | 244  | 2040702  | 98.89  | ng    | 0.00     |

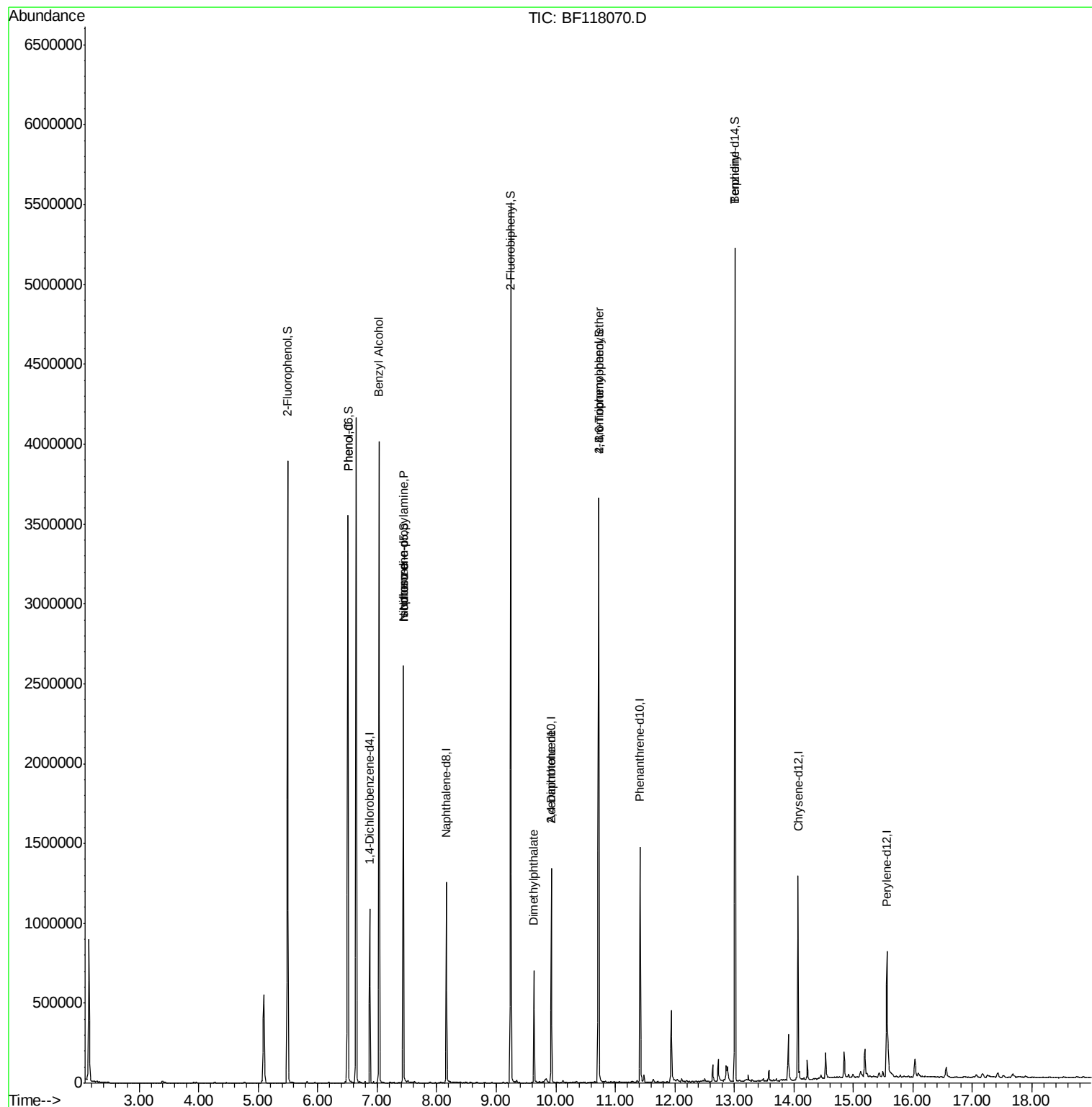
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.51  | 77   | 2675     | Below Cal |       | # 1    |
| 10) Phenol                     | 6.52  | 94   | 28196    | 2.757     | ng    | # 86   |
| 15) Benzyl Alcohol             | 7.03  | 79   | 15395    | 2.026     | ng    | # 45   |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 120634   | 19.872    | ng    | # 74   |
| 25) Isophorone                 | 7.44  | 82   | 879661   | 51.687    | ng    | # 63   |
| 50) Dimethylphthalate          | 9.63  | 163  | 263326   | 12.912    | ng    | # 99   |
| 57) 2,4-Dinitrotoluene         | 9.93  | 165  | 37821    | 6.670     | ng    | # 32   |
| 67) 4-Bromophenyl-phenylether  | 10.72 | 248  | 30045    | 5.027     | ng    | # 1    |
| 75) Fluoranthene               | 12.63 | 202  | 31651    | Below Cal |       | # 100  |
| 77) Benzidine                  | 13.01 | 184  | 28468    | 2.304     | ng    | # 92   |

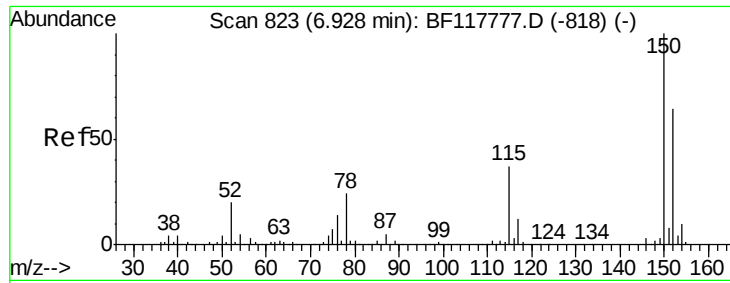
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 04 00:35:09 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 03 15:16:53 2019  
Response via : Initial Calibration

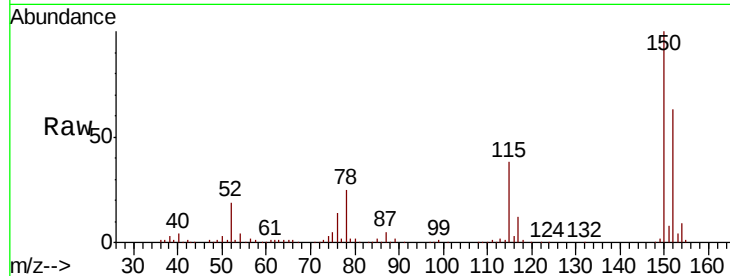




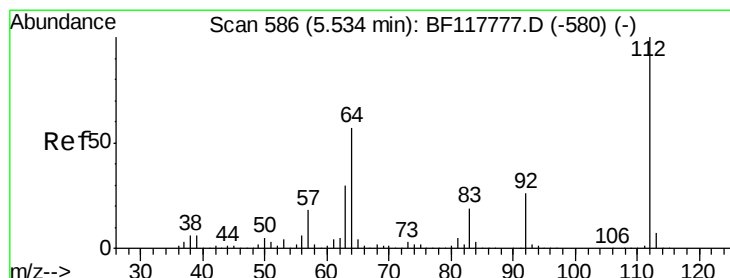
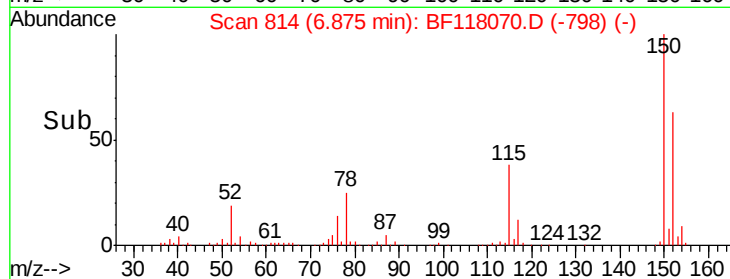
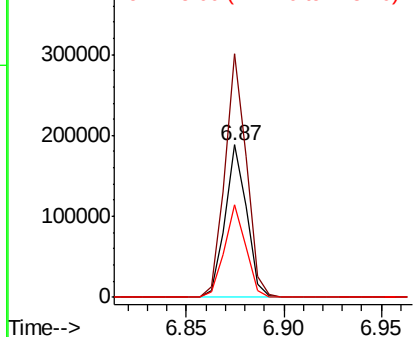
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.87 min Scan# 814  
 Delta R.T. -0.01 min  
 Lab File: BF118070.D  
 Acq: 3 Dec 2019 18:57

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 144409  
 Ion Ratio Lower Upper  
 152 100  
 150 159.8 121.4 182.2  
 115 61.0 48.8 73.2

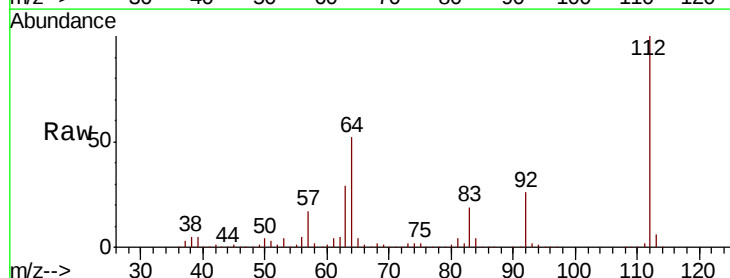


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

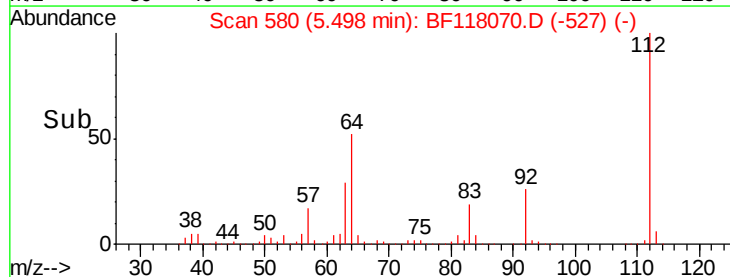
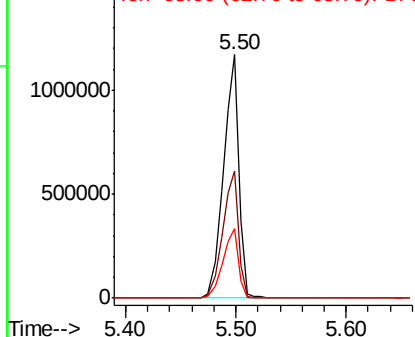


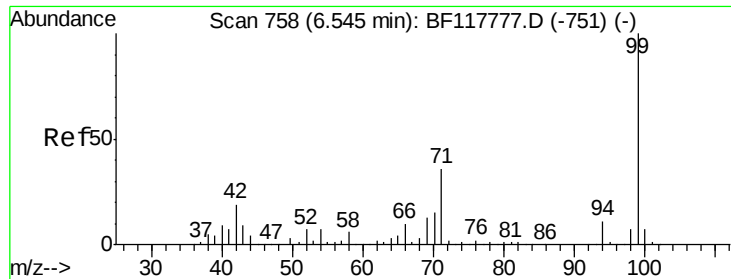
#5  
 2-Fluorophenol  
 Concen: 138.899 ng  
 RT: 5.50 min Scan# 580  
 Delta R.T. 0.01 min  
 Lab File: BF118070.D  
 Acq: 3 Dec 2019 18:57

Tgt Ion:112 Resp: 1133168  
 Ion Ratio Lower Upper  
 112 100  
 64 52.5 45.1 67.7  
 63 28.6 24.6 37.0



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF1  
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 144.059 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

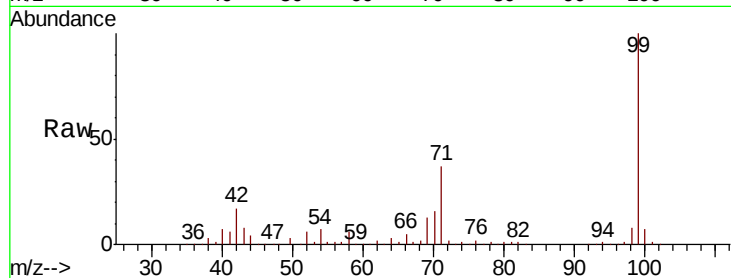
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1417555

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.4  | 14.0  | 21.0  |
| 71  | 37.1  | 29.2  | 43.8  |

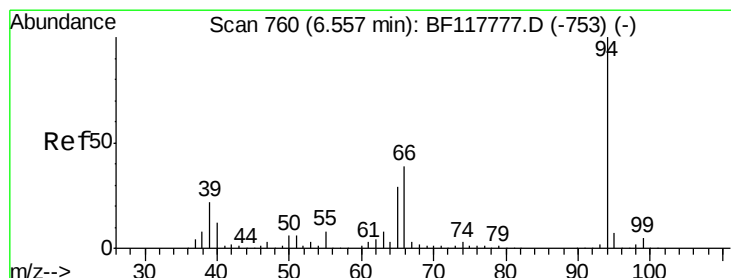
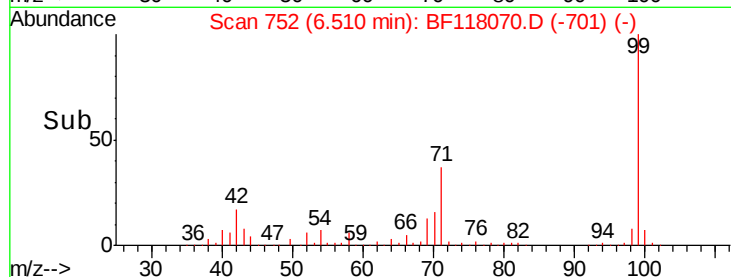
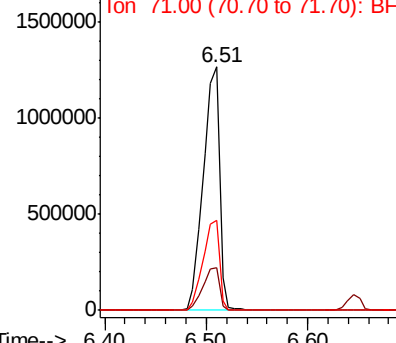


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.757 ng

RT: 6.52 min Scan# 753

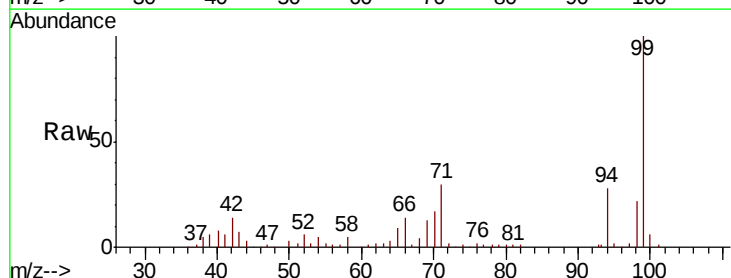
Delta R.T. -0.01 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

Tgt Ion: 94 Resp: 28196

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 30.5  | 6.9   | 46.9  |
| 66  | 49.8  | 18.6  | 58.6  |

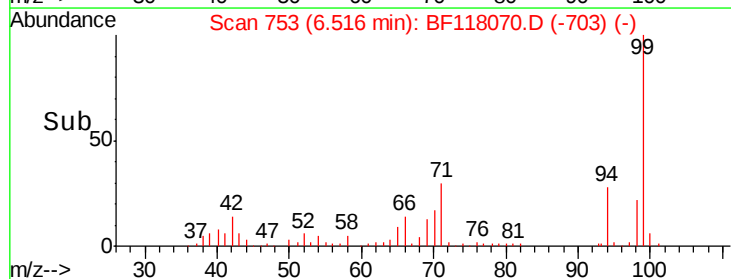
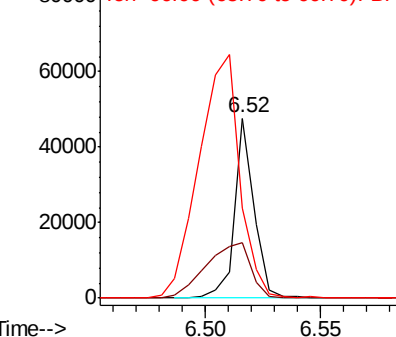


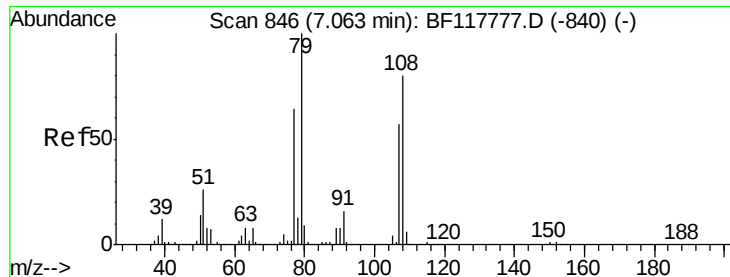
Abundance

Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#15

Benzyl Alcohol

Concen: 2.026 ng

RT: 7.03 min Scan# 841

Delta R.T. 0.01 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

Instrument :

BNA\_F

ClientSampleId :

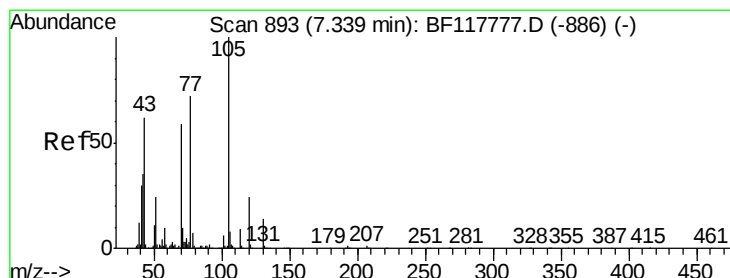
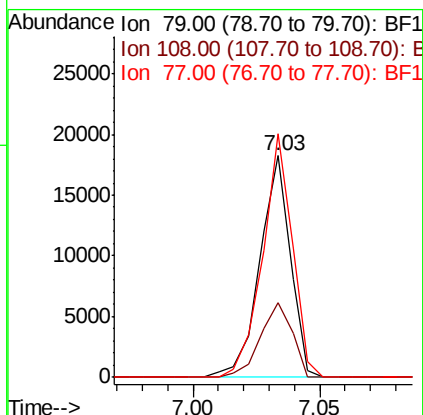
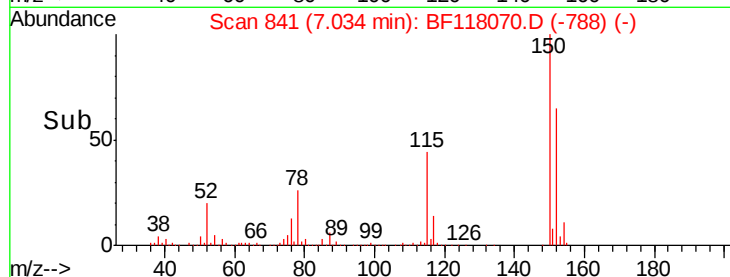
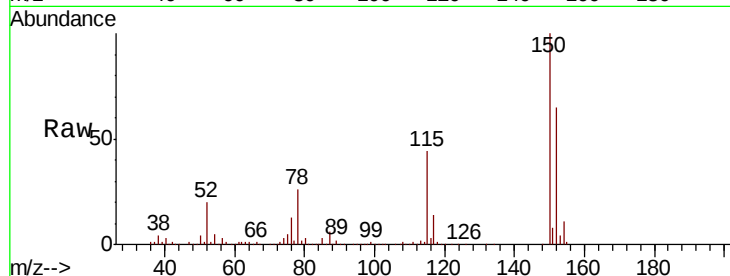
Tot Ion: 79 Resp: 15395

Ion Ratio Lower Upper

79 100

108 33.9 63.1 94.7#

77 109.9 50.6 76.0#



#19

n-Nitroso-di-n-propylamine

Concen: 19.872 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

Tgt Ion: 70 Resp: 120634

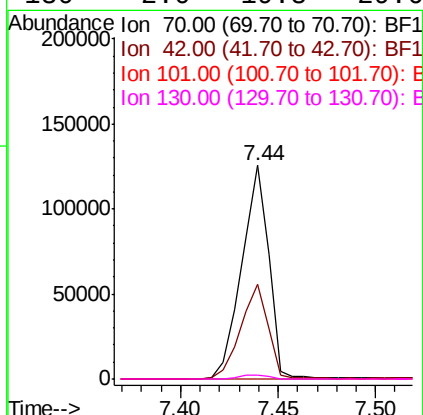
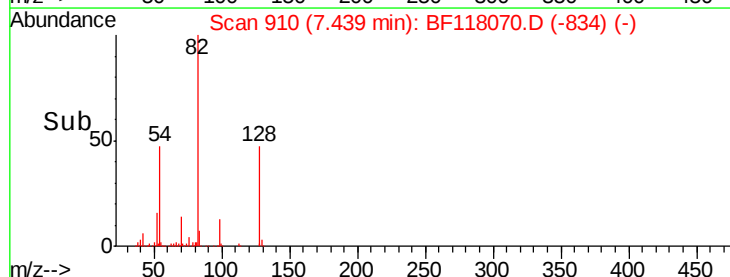
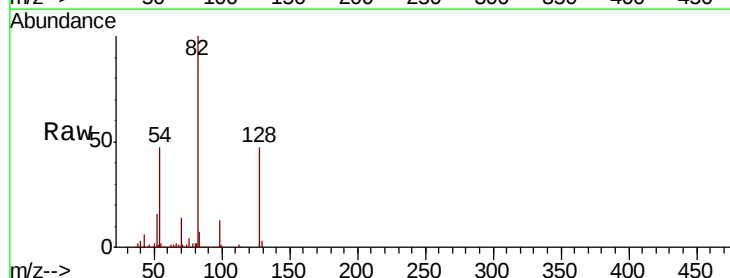
Ion Ratio Lower Upper

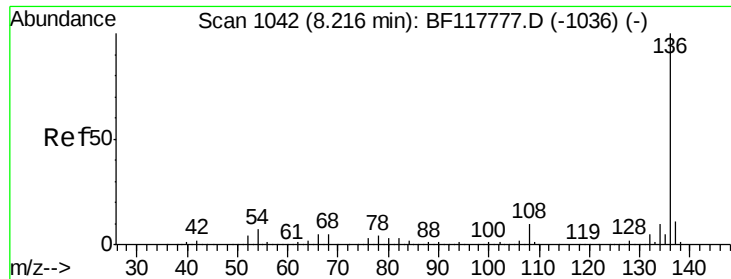
70 100

42 44.5 46.0 69.0#

101 0.0 8.8 13.2#

130 2.0 19.8 29.6#

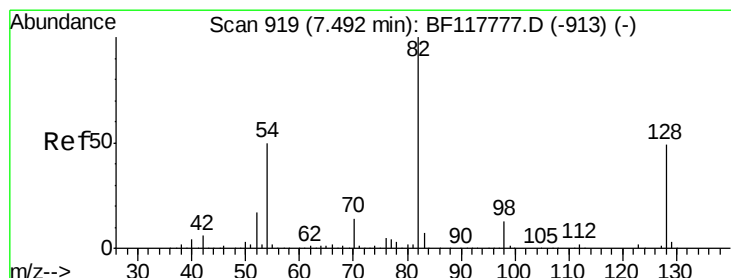
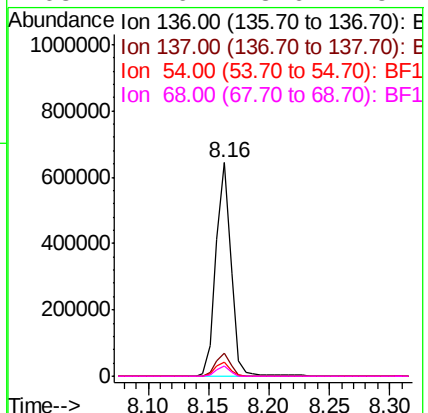
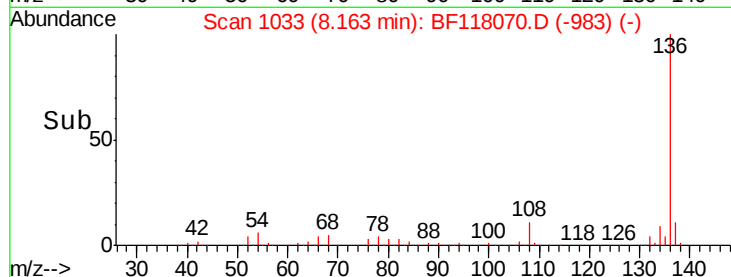
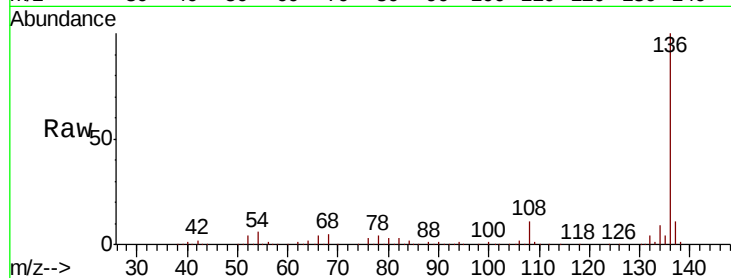




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF118070.D  
Acq: 3 Dec 2019 18:57

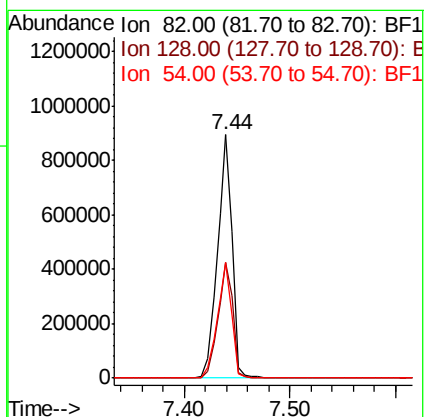
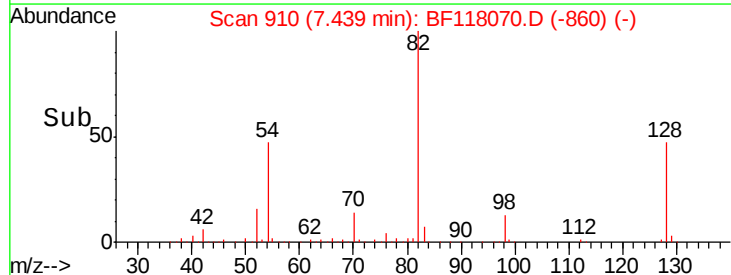
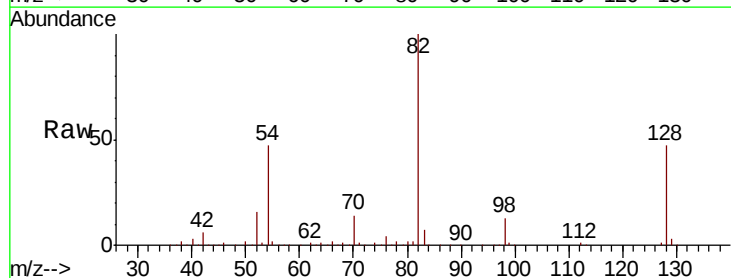
Instrument :  
BNA\_F  
ClientSampleId :

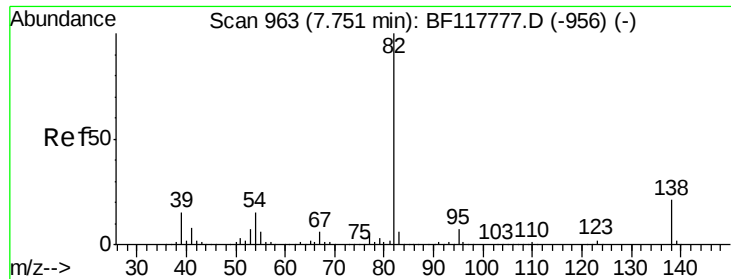
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 551991   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 9.1 13.7 |
| 54          | 6.4   | 4.9 7.3  |
| 68          | 4.6   | 3.6 5.4  |



#23  
Nitrobenzene-d5  
Concen: 94.735 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF118070.D  
Acq: 3 Dec 2019 18:57

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 879670    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.5  | 38.2 57.4 |
| 54          | 47.4  | 39.0 58.4 |





#25

Isophorone

Concen: 51.687 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

Instrument :

BNA\_F

ClientSampled :

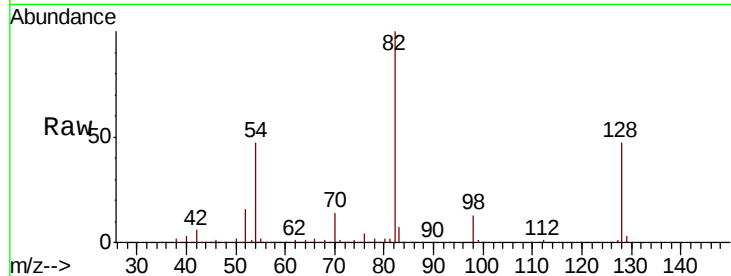
Tot Ion: 82 Resp: 879661

Ion Ratio Lower Upper

82 100

95 0.0 6.2 9.2#

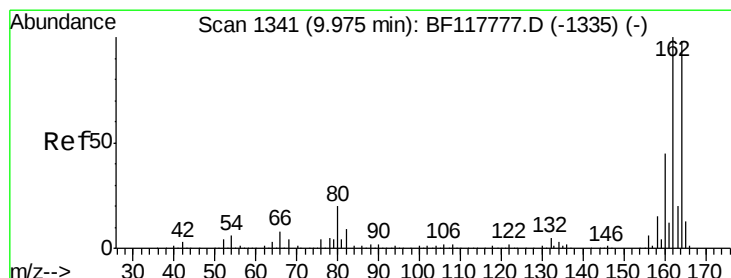
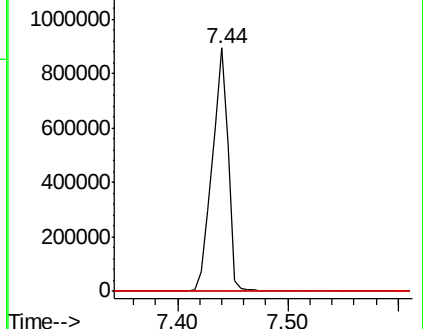
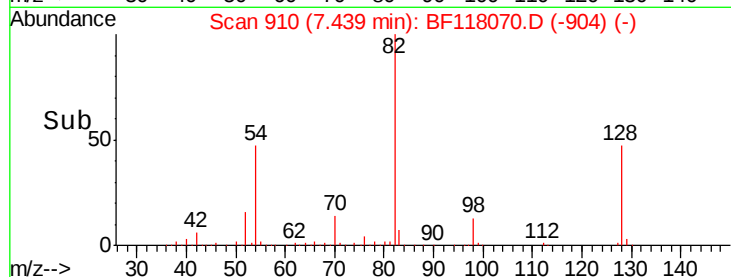
138 0.0 15.9 23.9#



Abundance Ion 82.00 (81.70 to 82.70): BF118070.D (-904) (-)

Ion 95.00 (94.70 to 95.70): BF118070.D (-904) (-)

Ion 138.00 (137.70 to 138.70): BF118070.D (-904) (-)



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

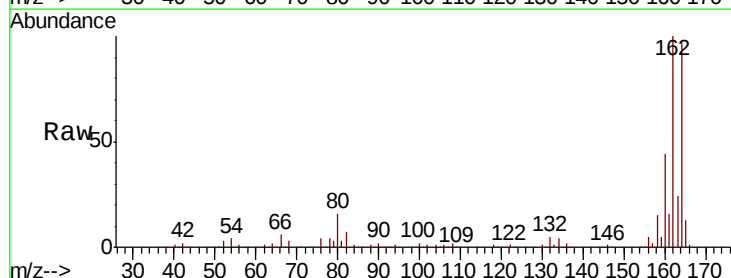
Tgt Ion: 164 Resp: 290834

Ion Ratio Lower Upper

164 100

162 103.2 81.8 122.8

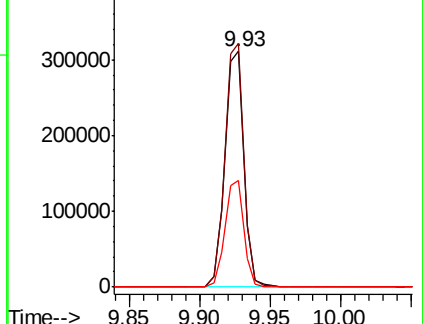
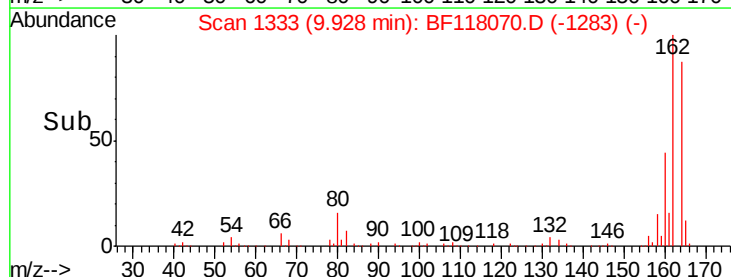
160 45.5 35.9 53.9

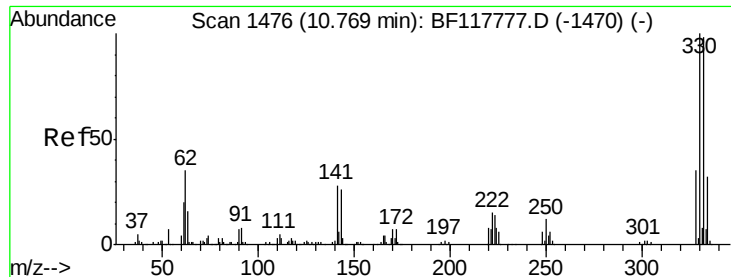


Abundance Ion 164.00 (163.70 to 164.70): BF118070.D (-1283) (-)

Ion 162.00 (161.70 to 162.70): BF118070.D (-1283) (-)

Ion 160.00 (159.70 to 160.70): BF118070.D (-1283) (-)





#42

2,4,6-Tribromophenol

Concen: 158.544 ng

RT: 10.72 min Scan# 1468

Delta R.T. 0.00 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

Instrument :

BNA\_F

ClientSampleId :

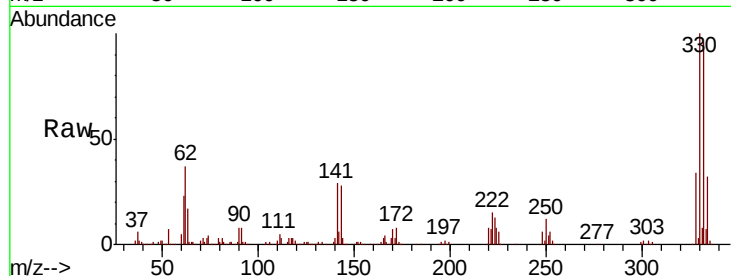
Tot Ion:330 Resp: 488162

Ion Ratio Lower Upper

330 100

332 95.8 78.3 117.5

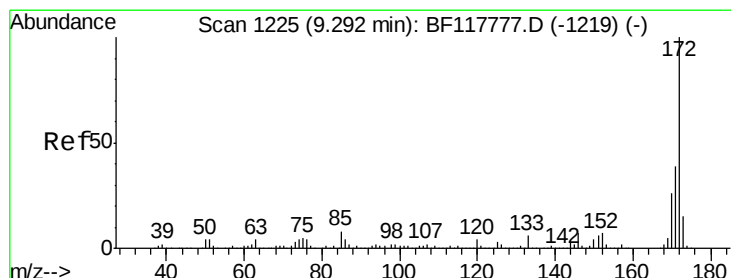
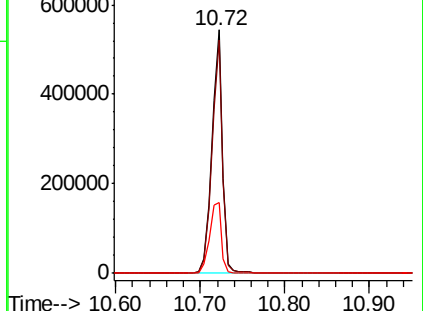
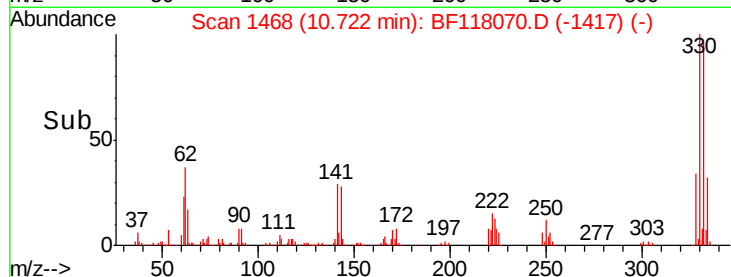
141 32.4 26.4 39.6



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 103.302 ng

RT: 9.25 min Scan# 1217

Delta R.T. 0.00 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

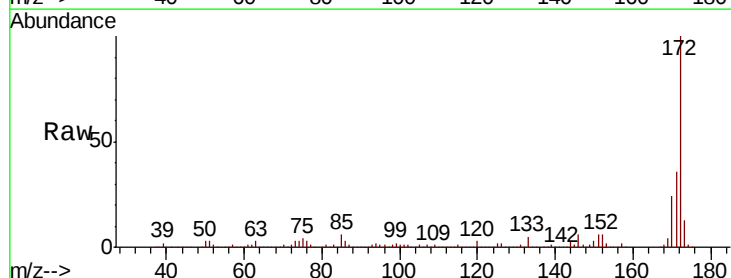
Tgt Ion:172 Resp: 1674641

Ion Ratio Lower Upper

172 100

171 36.3 29.2 43.8

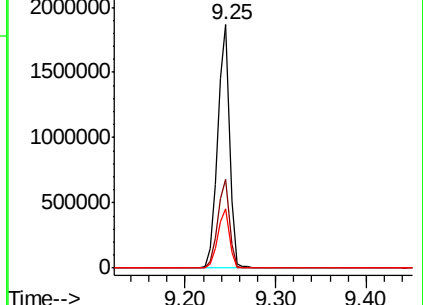
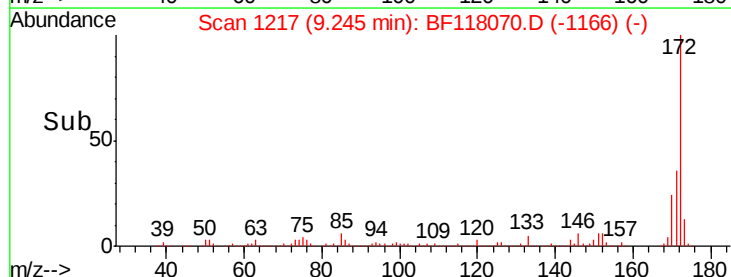
170 24.3 19.3 28.9

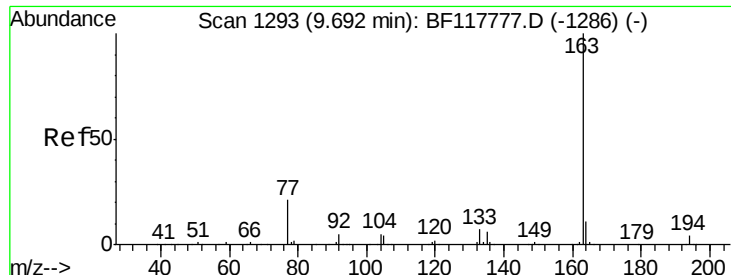


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

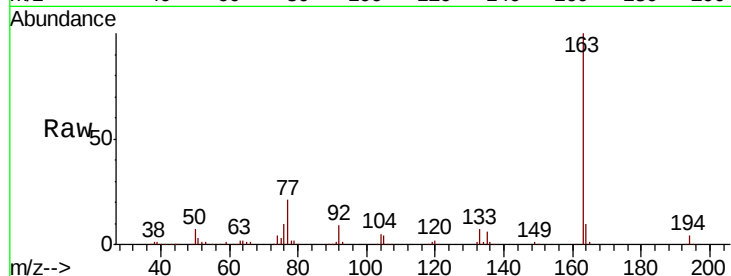




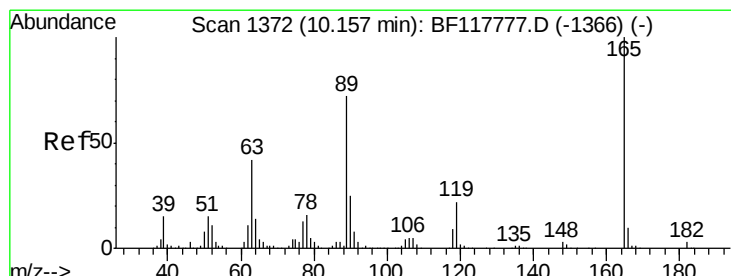
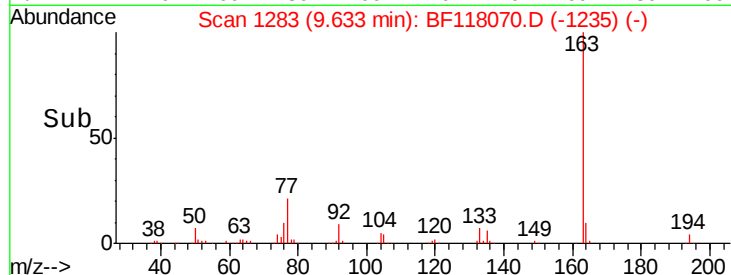
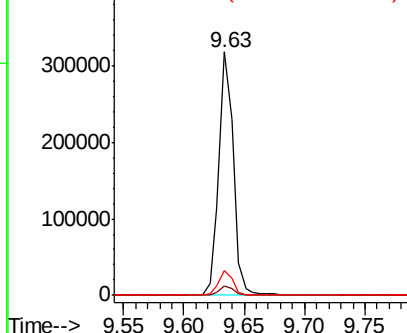
#50  
Dimethylphthalate  
Concen: 12.912 ng  
RT: 9.63 min Scan# 1283  
Delta R.T. -0.02 min  
Lab File: BF118070.D  
Acq: 3 Dec 2019 18:57

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 3.1   | 4.7   |
| 164     | 10.3  | 7.9   | 11.9  |



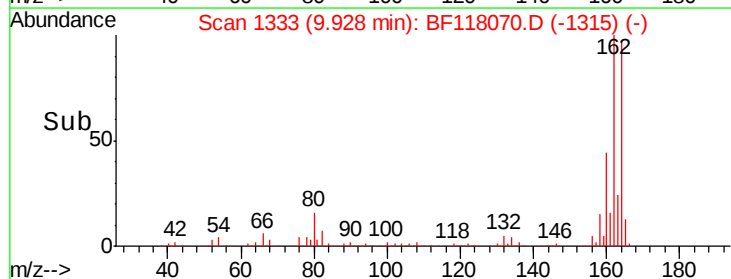
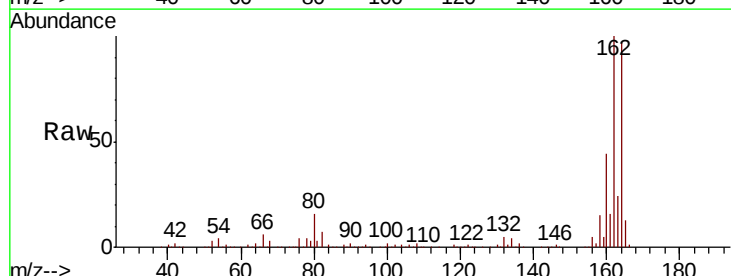
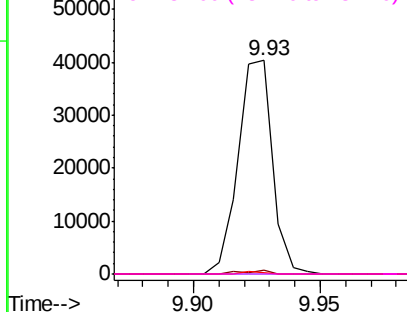
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

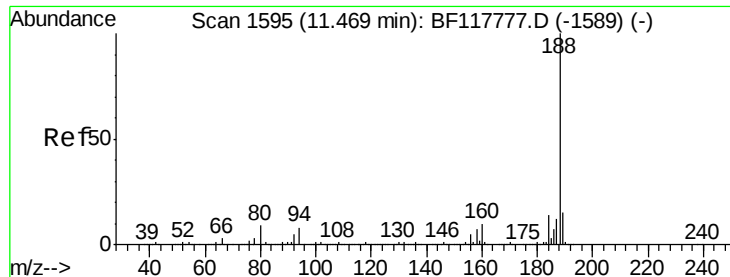


#57  
2,4-Dinitrotoluene  
Concen: 6.670 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.19 min  
Lab File: BF118070.D  
Acq: 3 Dec 2019 18:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 26.5  | 39.7# |
| 89      | 0.9   | 47.2  | 70.8# |
| 182     | 0.0   | 2.3   | 3.5#  |

Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

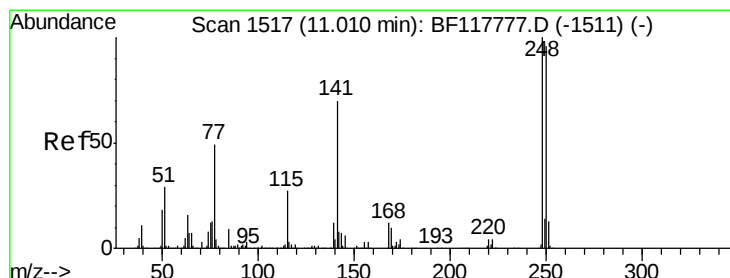
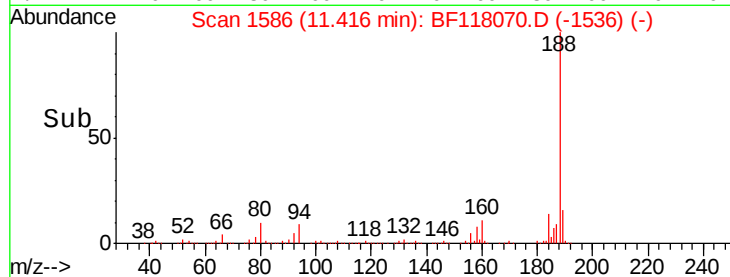
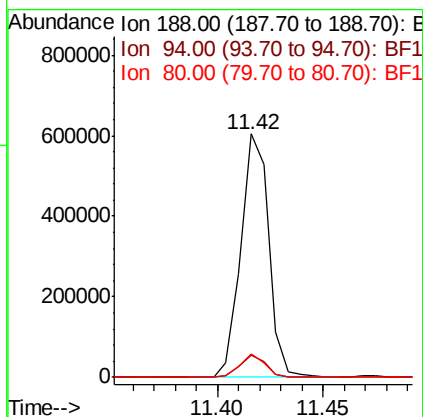
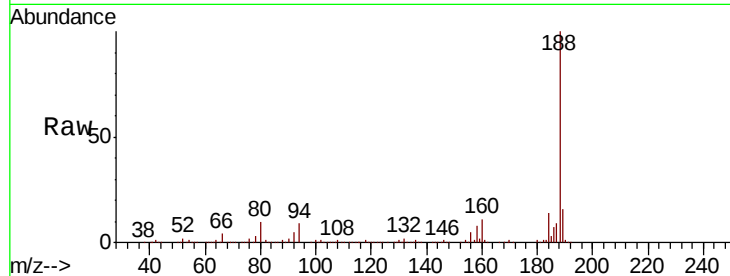




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.42 min Scan# 1586  
 Delta R.T. -0.01 min  
 Lab File: BF118070.D  
 Acq: 3 Dec 2019 18:57

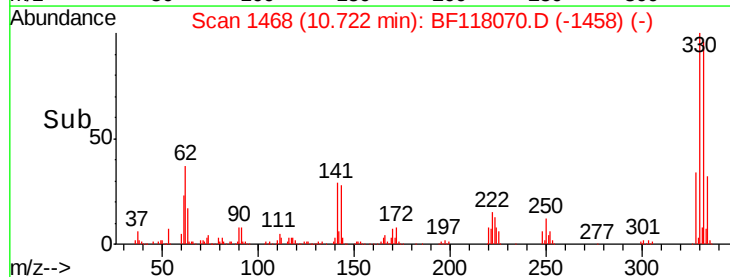
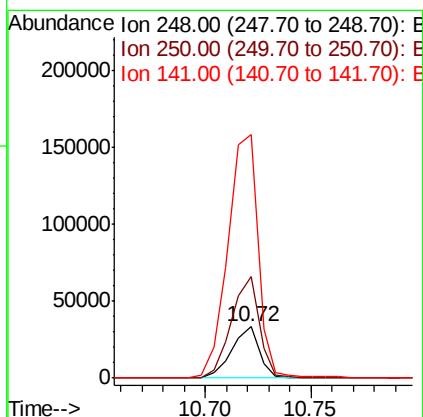
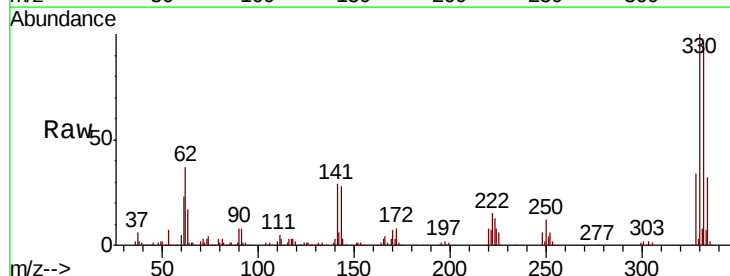
Instrument :  
 BNA\_F  
 ClientSampleId :

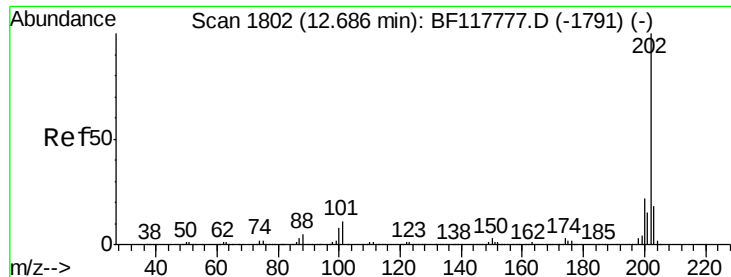
Tot Ion:188 Resp: 553955  
 Ion Ratio Lower Upper  
 188 100  
 94 9.2 7.0 10.6  
 80 9.7 7.2 10.8



#67  
 4-Bromophenyl-phenylether  
 Concen: 5.027 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. -0.24 min  
 Lab File: BF118070.D  
 Acq: 3 Dec 2019 18:57

Tgt Ion:248 Resp: 30045  
 Ion Ratio Lower Upper  
 248 100  
 250 197.7 78.0 117.0#  
 141 476.9 64.0 96.0#





#75

Fluoranthene

Concen: Below Cal

RT: 12.63 min Scan# 1793

Delta R.T. -0.01 min

Lab File: BF118070.D

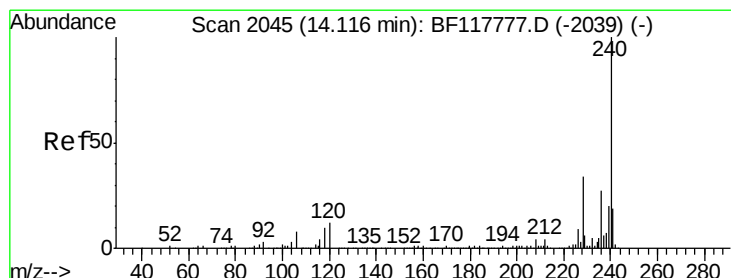
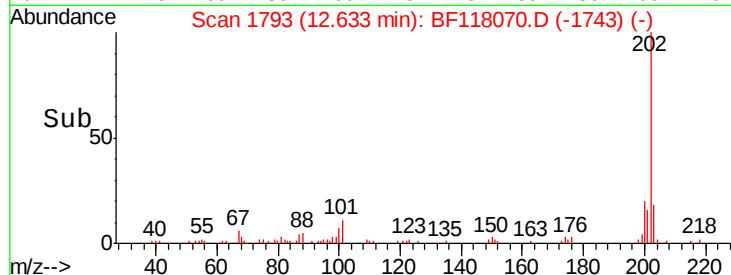
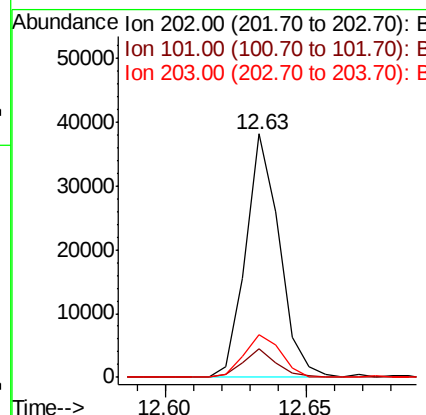
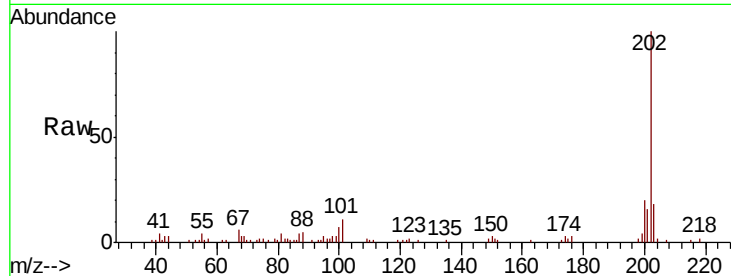
Acq: 3 Dec 2019 18:57

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 202   | Resp: | 31651 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 11.5  | 0.0   | 31.5  |
| 203      | 17.6  | 0.0   | 37.6  |



#76

Chrysene-d12

Concen: 20.000 ng

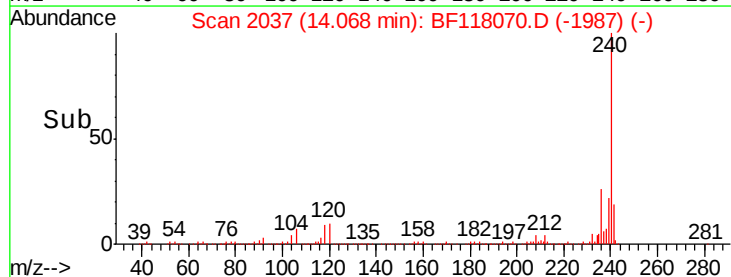
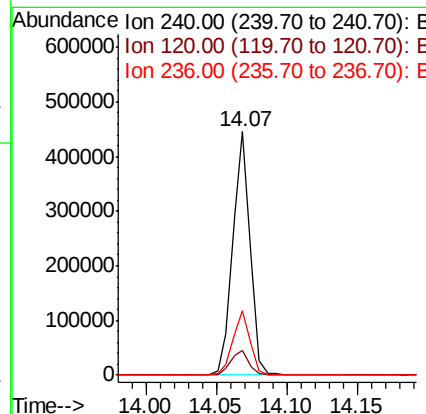
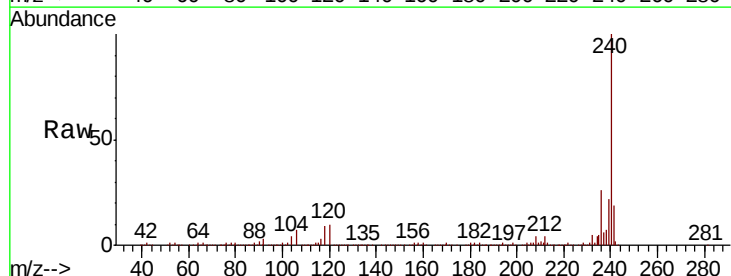
RT: 14.07 min Scan# 2037

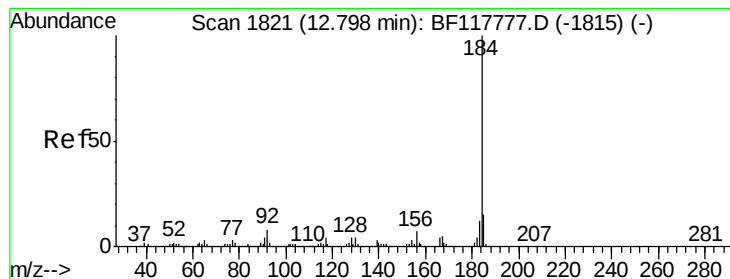
Delta R.T. -0.01 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 377160 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 10.4  | 8.4   | 12.6   |
| 236      | 26.3  | 20.6  | 31.0   |





#77

Benzidine

Concen: 2.304 ng

RT: 13.01 min Scan# 1857

Delta R.T. 0.25 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

Instrument :

BNA\_F

ClientSampleId :

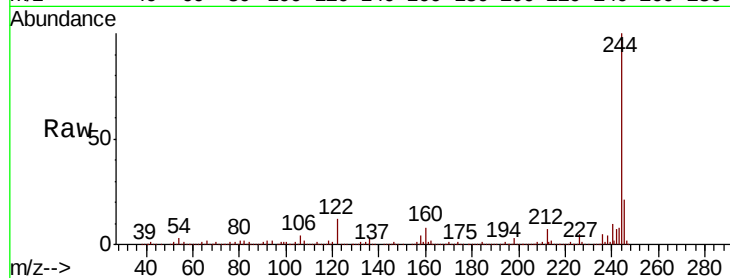
Tot Ion:184 Resp: 28468

Ion Ratio Lower Upper

184 100

185 16.0 11.6 17.4

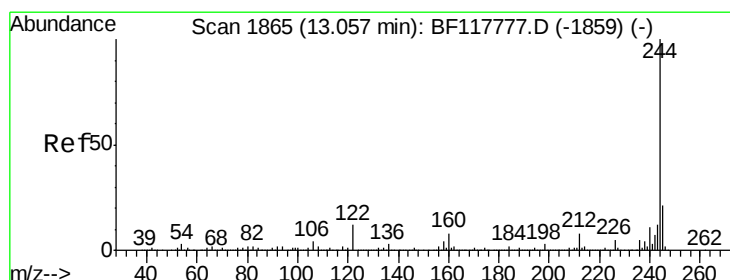
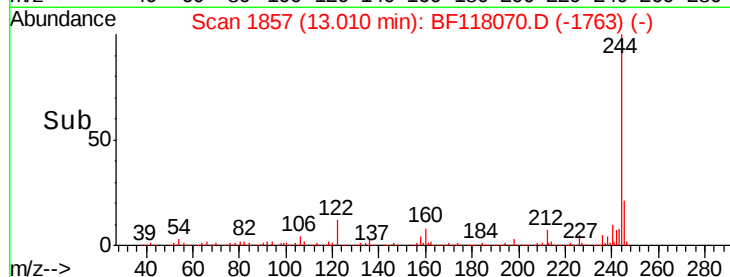
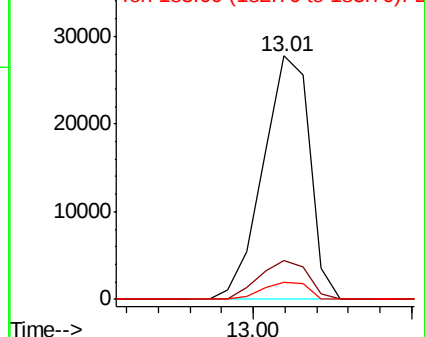
183 7.0 9.7 14.5#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 98.887 ng

RT: 13.02 min Scan# 1858

Delta R.T. 0.00 min

Lab File: BF118070.D

Acq: 3 Dec 2019 18:57

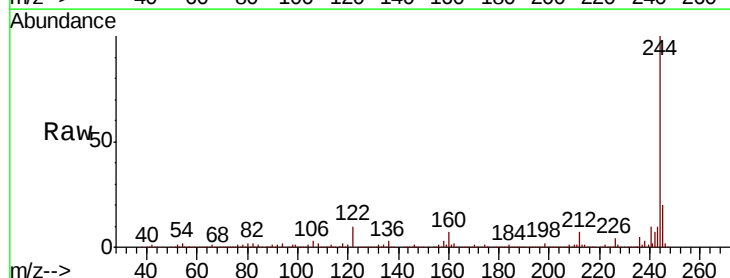
Tgt Ion:244 Resp: 2040702

Ion Ratio Lower Upper

244 100

212 6.8 5.2 7.8

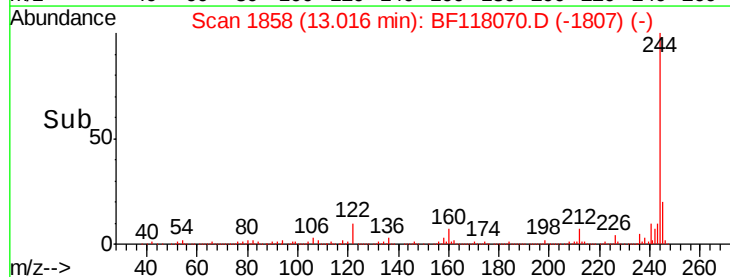
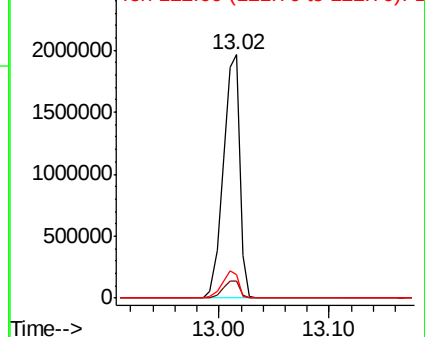
122 9.8 7.2 10.8

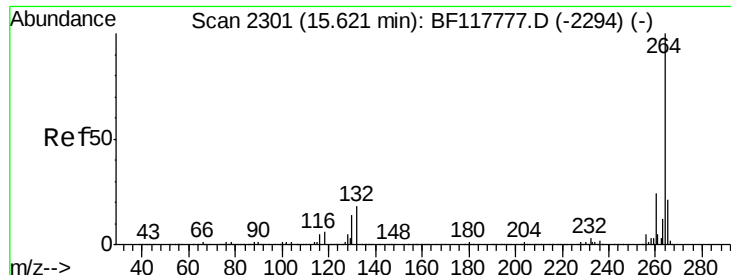


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

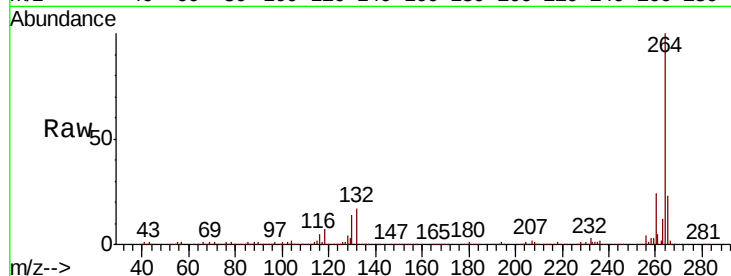




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.56 min Scan# 2291  
 Delta R.T. -0.01 min  
 Lab File: BF118070.D  
 Acq: 3 Dec 2019 18:57

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.0  | 28.6  |
| 265     | 22.6  | 16.4  | 24.6  |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

