

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090519\  
 Data File : BF116834.D  
 Acq On : 5 Sep 2019 13:35  
 Operator : HP/JU  
 Sample : K4575-15  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 05 14:24:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 30 20:02:30 2019  
 Response via : Initial Calibration

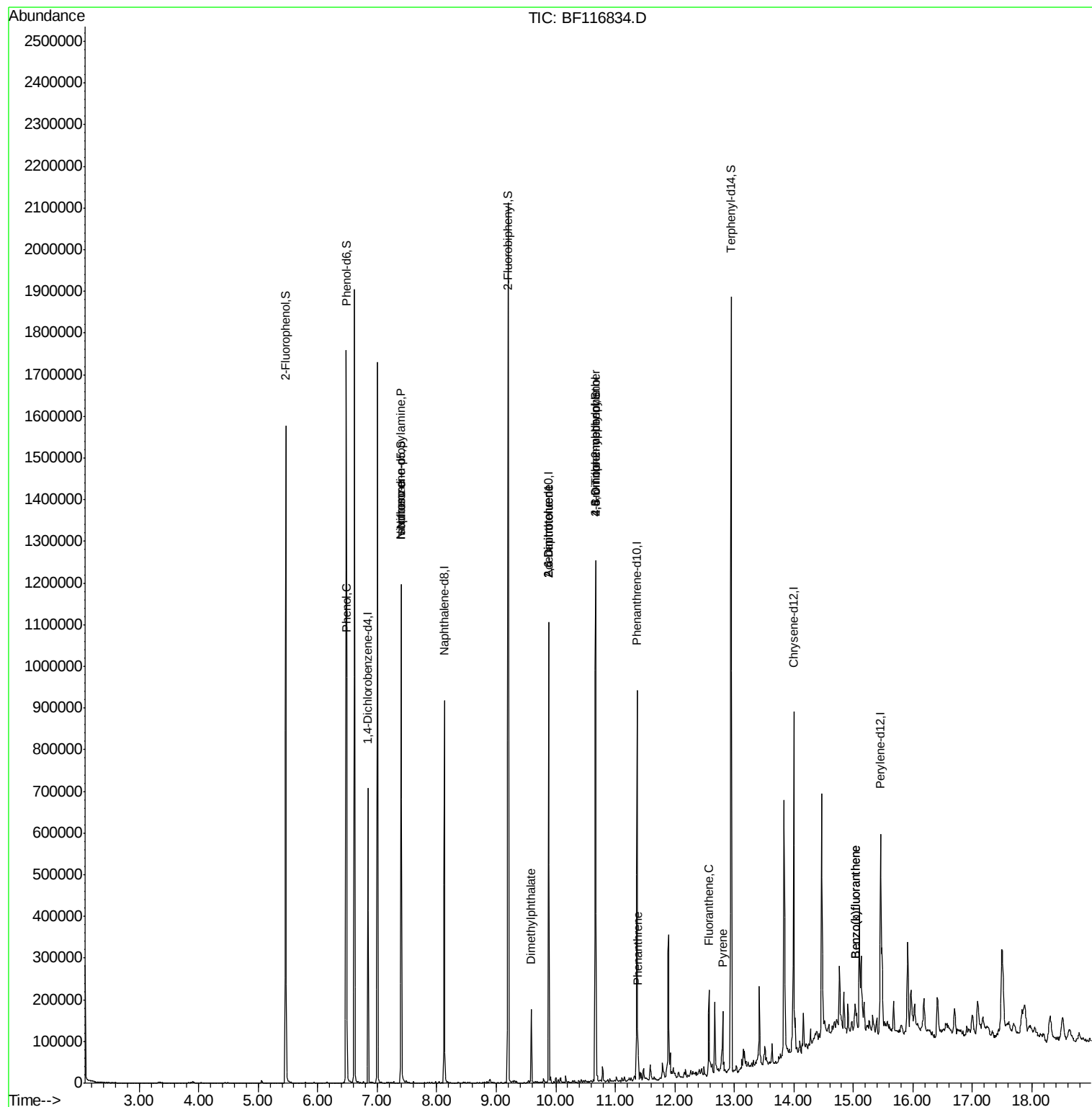
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 94513    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 383653   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.88  | 164  | 196014   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.36 | 188  | 314664   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.00 | 240  | 230259   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.46 | 264  | 208631   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 466002   | 79.88  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.48  | 99   | 642712   | 83.90  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 385357   | 57.34  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 125605   | 95.85  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 662570   | 57.02  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.94 | 244  | 548176   | 44.04  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.49  | 94   | 17805    | 2.099  | ng    | 98       |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 51241    | 10.159 | ng    | # 72     |
| 25) Isophorone                 | 7.40  | 82   | 385353   | 28.297 | ng    | # 66     |
| 50) Dimethylphthalate          | 9.59  | 163  | 67370    | 4.978  | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 9.88  | 165  | 25454    | 9.858  | ng    | # 20     |
| 57) 2,4-Dinitrotoluene         | 9.88  | 165  | 25454    | 8.062  | ng    | # 21     |
| 65) 4,6-Dinitro-2-methylphenol | 10.67 | 198  | 142      | 7.555  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.67 | 248  | 8157     | 2.552  | ng    | # 1      |
| 71) Phenanthrene               | 11.39 | 178  | 37756    | 2.155  | ng    | 98       |
| 75) Fluoranthene               | 12.57 | 202  | 67947    | 3.947  | ng    | 99       |
| 78) Pyrene                     | 12.80 | 202  | 59024    | 2.884  | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 15.03 | 252  | 42129    | 3.340  | ng    | # 90     |
| 89) Benzo(k)fluoranthene       | 15.03 | 252  | 42129    | 3.663  | ng    | # 90     |

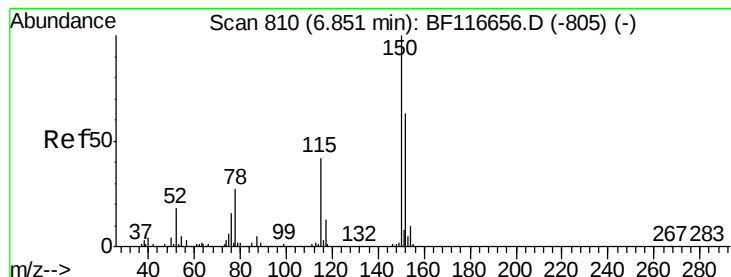
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K4575-15  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Sep 05 14:24:10 2019  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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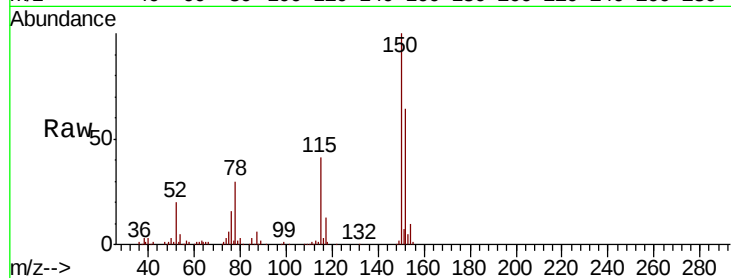


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.8 | 124.4 | 186.6 |
| 115     | 64.6  | 49.9  | 74.9  |

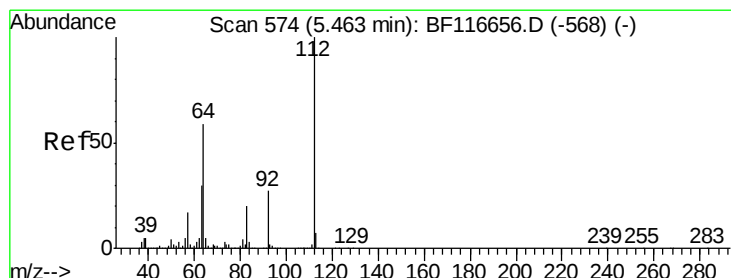
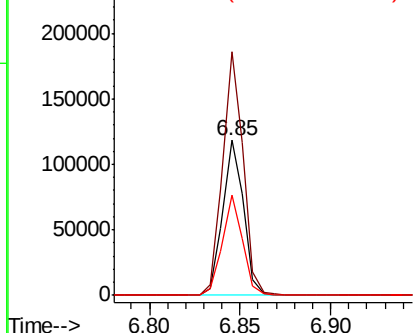
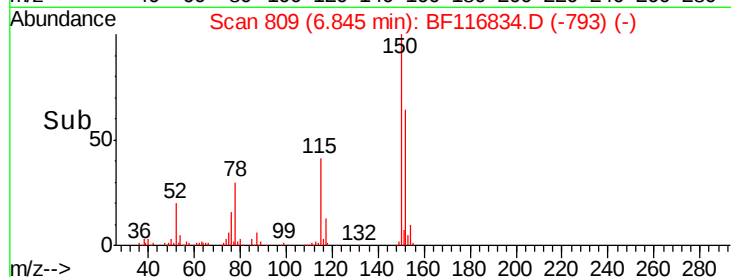


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

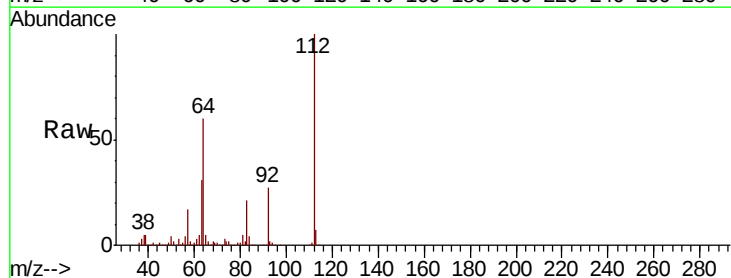
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 79.878 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.00 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.8  | 47.1  | 70.7  |
| 63      | 31.4  | 24.9  | 37.3  |

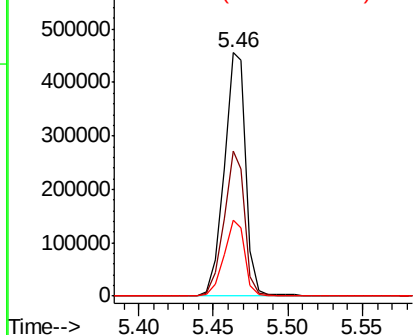
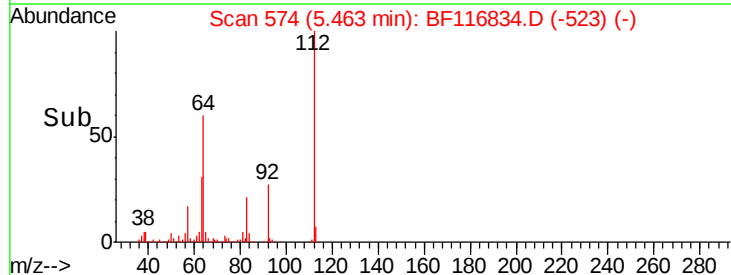


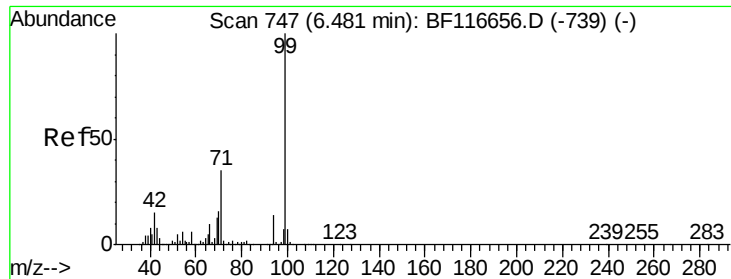
Abundance

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: 83.898 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.00 min

Lab File: BF116834.D

Acq: 5 Sep 2019 13:35

Instrument :

BNA\_F

ClientSampleId :

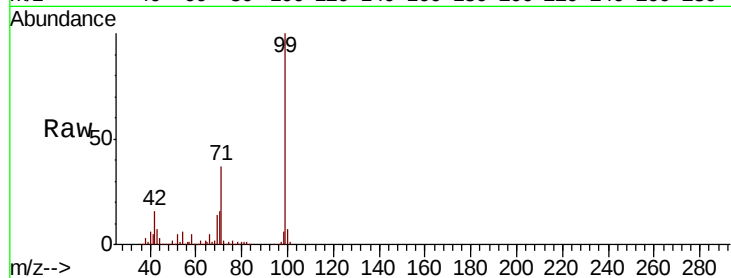
Tot Ion: 99 Resp: 642712

Ion Ratio Lower Upper

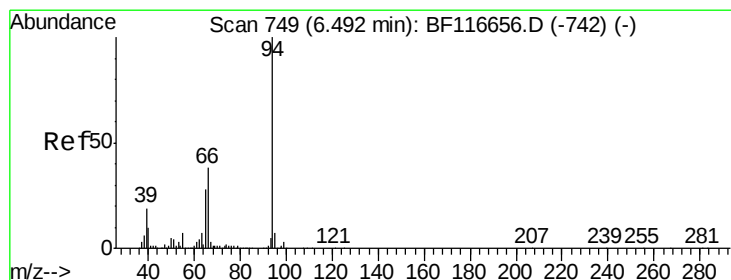
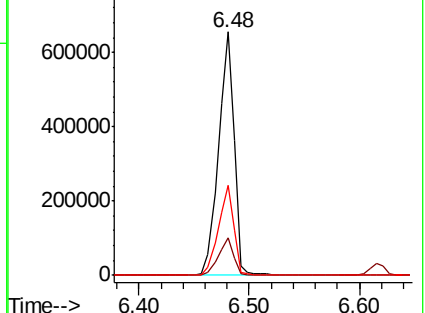
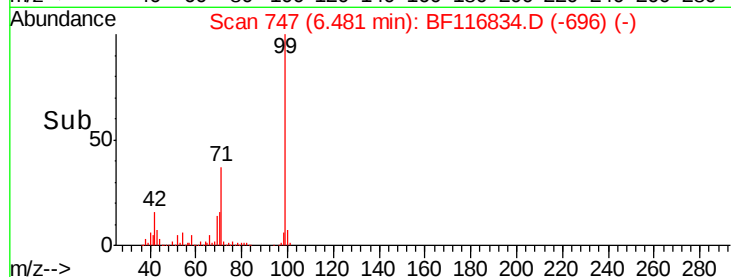
99 100

42 15.7 13.7 20.5

71 36.8 30.8 46.2



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: 2.099 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.00 min

Lab File: BF116834.D

Acq: 5 Sep 2019 13:35

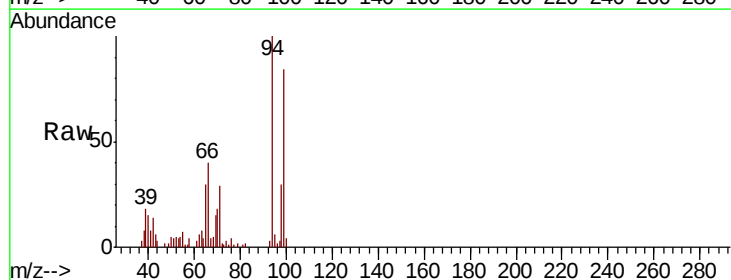
Tgt Ion: 94 Resp: 17805

Ion Ratio Lower Upper

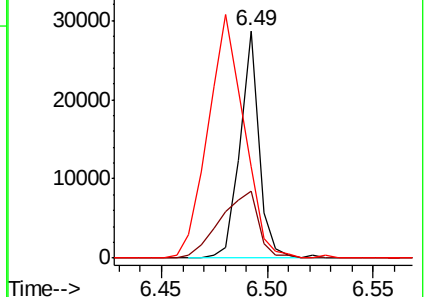
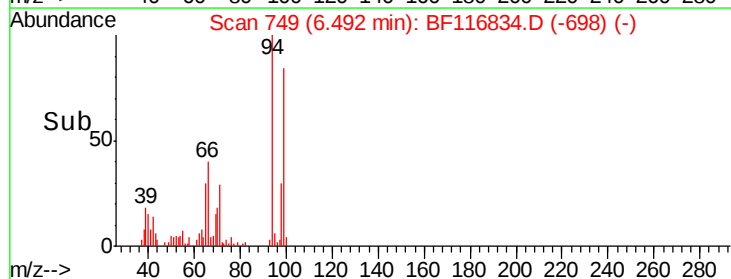
94 100

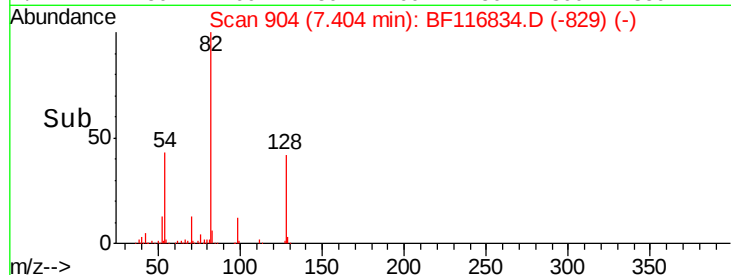
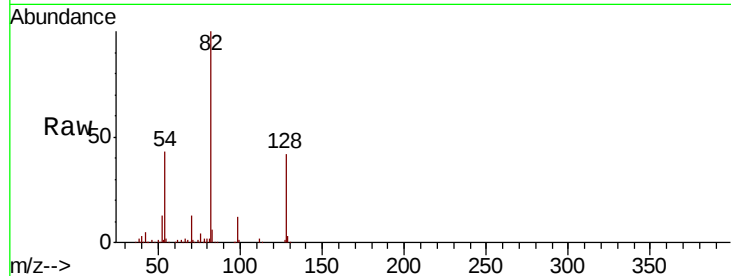
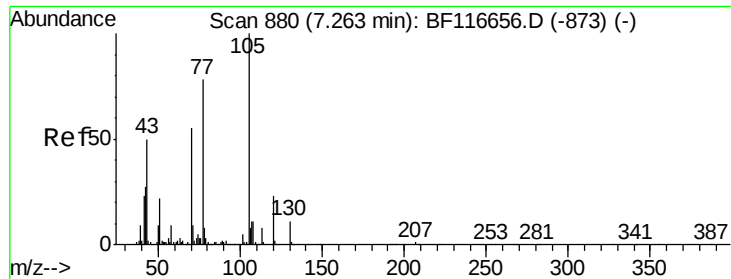
65 29.6 10.8 50.8

66 40.4 21.1 61.1



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

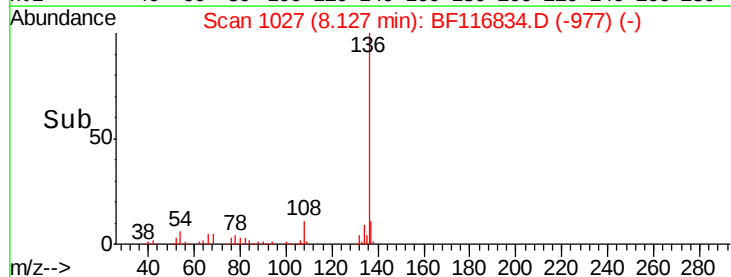
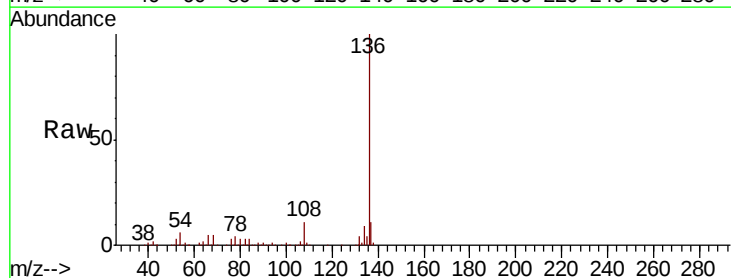
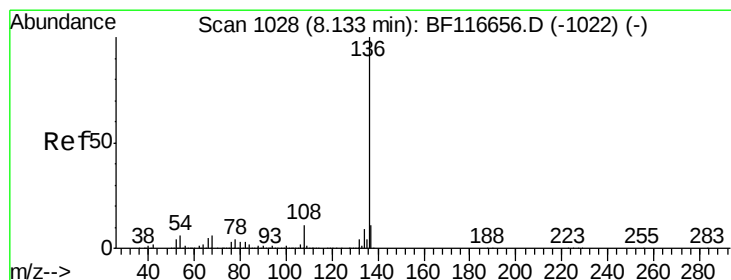
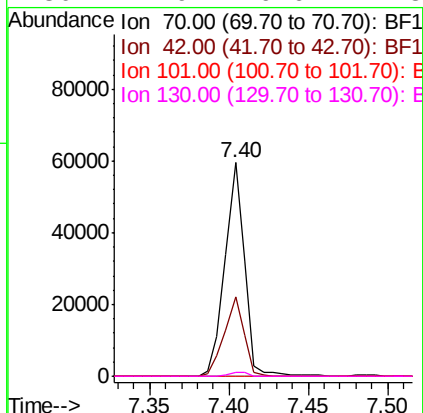




#19  
n-Nitroso-di-n-propylamine  
Concen: 10.159 ng  
RT: 7.40 min Scan# 904  
Delta R.T. 0.14 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

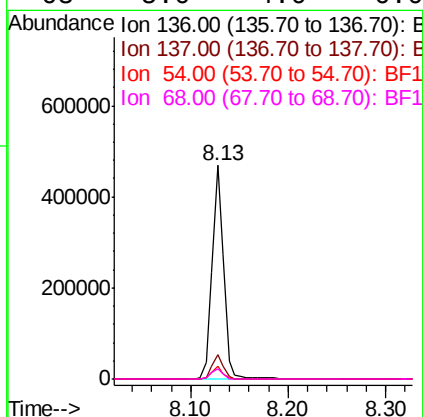
Instrument :  
BNA\_F  
ClientSampleId :

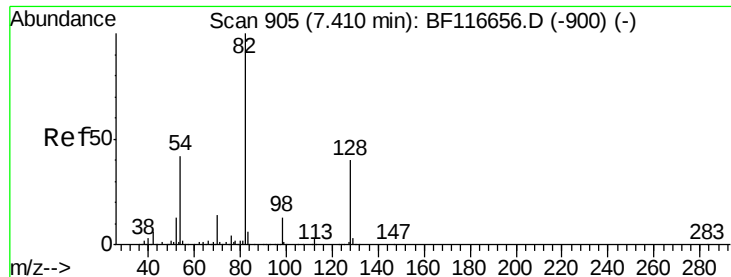
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 51241 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 37.3  | 43.5  | 65.3# |
| 101      | 0.0   | 7.8   | 11.6# |
| 130      | 1.9   | 16.6  | 24.8# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 383653 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.9   | 13.3   |
| 54       | 5.7   | 4.8   | 7.2    |
| 68       | 5.0   | 4.0   | 6.0    |

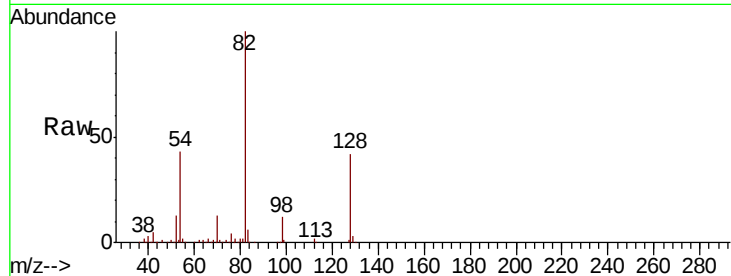




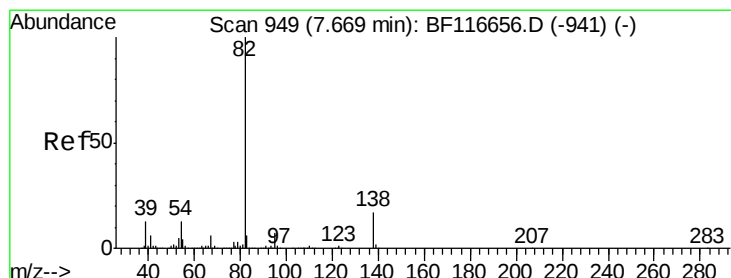
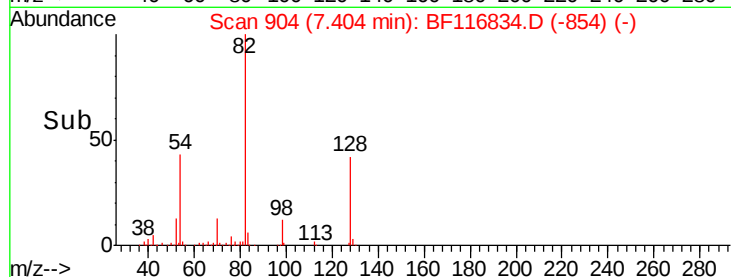
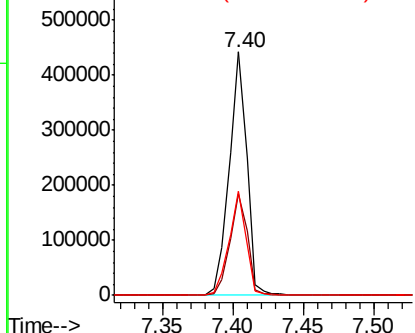
#23  
Nitrobenzene-d5  
Concen: 57.341 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion   | 82    | Resp  | 385357 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 41.6  | 32.8  | 49.2   |
| 54        | 42.8  | 36.9  | 55.3   |

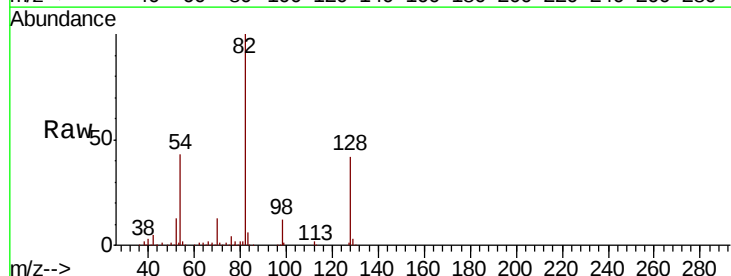


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

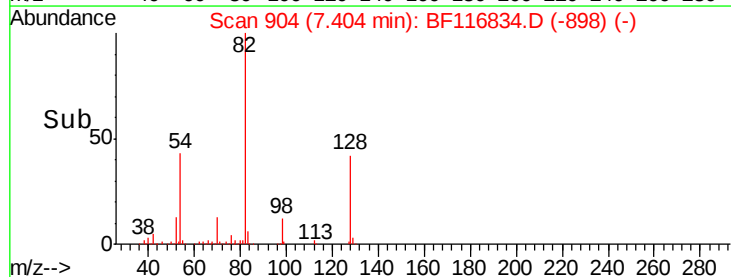
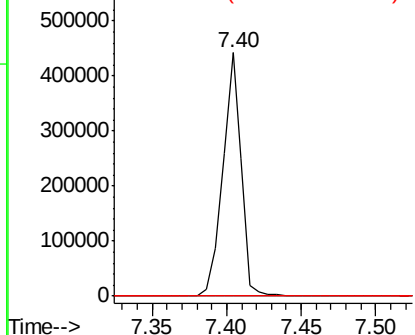


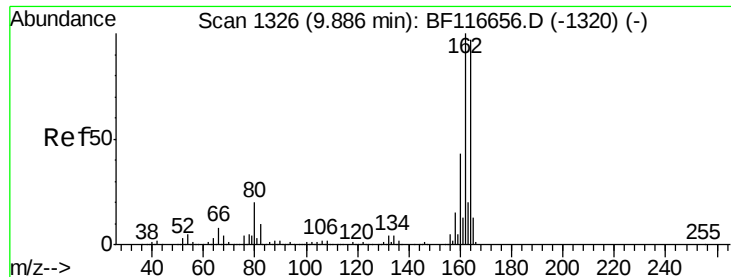
#25  
Isophorone  
Concen: 28.297 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.26 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

| Tgt Ion   | 82    | Resp  | 385353 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.8   | 8.6#   |
| 138       | 0.0   | 13.5  | 20.3#  |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

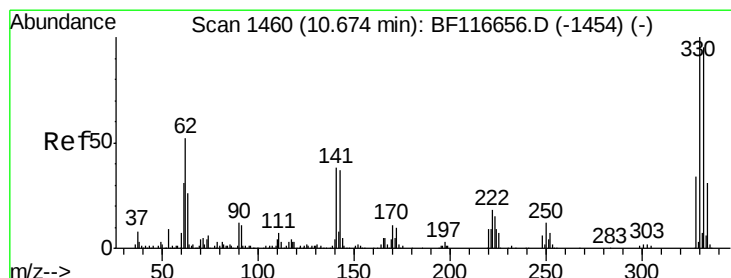
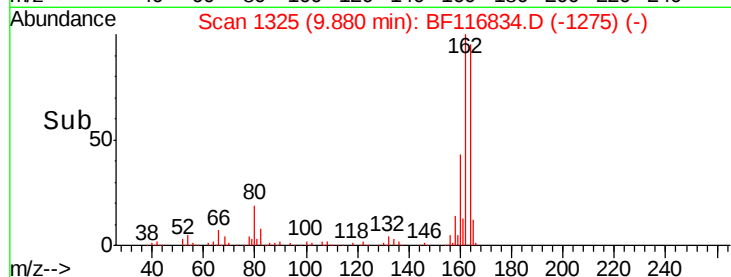
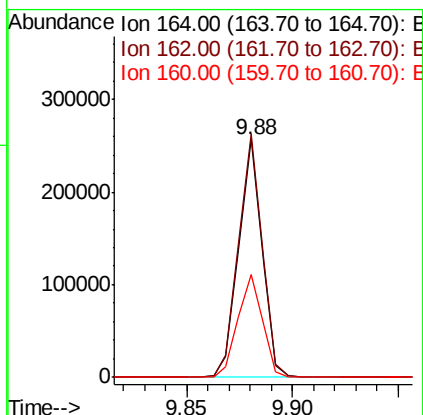
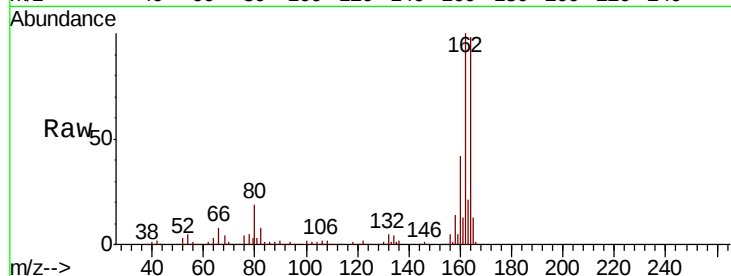




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

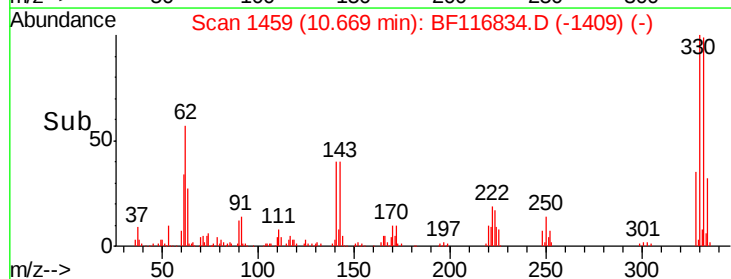
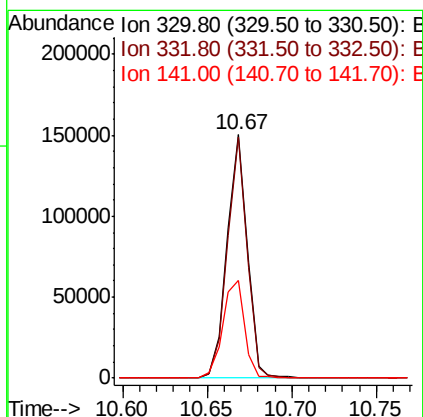
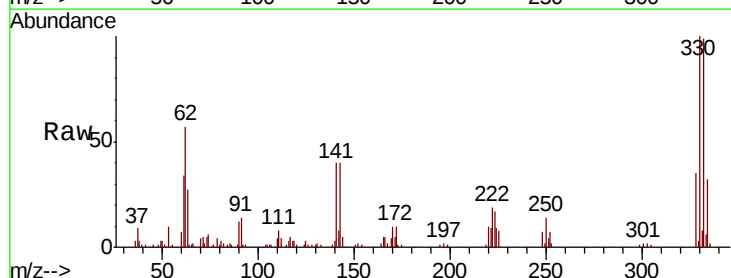
Instrument :  
BNA\_F  
ClientSampleId :

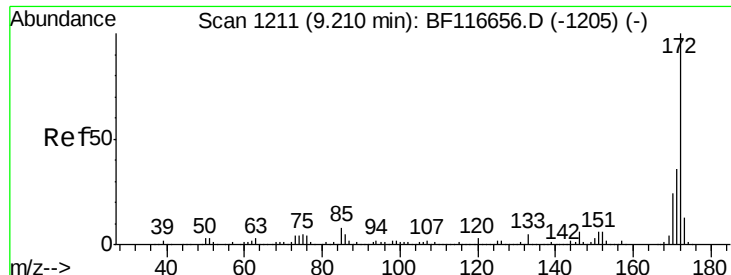
Tot Ion:164 Resp: 196014  
Ion Ratio Lower Upper  
164 100  
162 102.2 81.4 122.0  
160 43.4 35.4 53.2



#42  
2,4,6-Tribromophenol  
Concen: 95.853 ng  
RT: 10.67 min Scan# 1459  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Tgt Ion:330 Resp: 125605  
Ion Ratio Lower Upper  
330 100  
332 96.5 76.9 115.3  
141 43.2 31.4 47.2

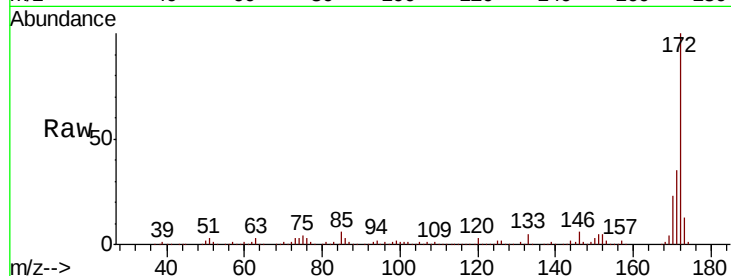




#45  
2-Fluorobiphenyl  
Concen: 57.021 ng  
RT: 9.20 min Scan# 1210  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 27.8  | 41.6  |
| 170     | 23.2  | 18.9  | 28.3  |

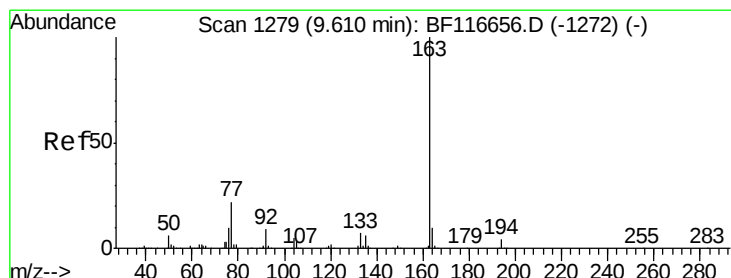
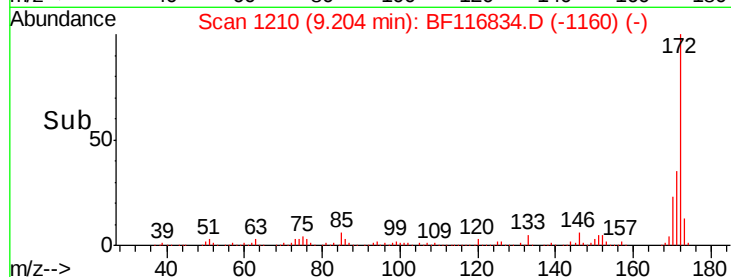
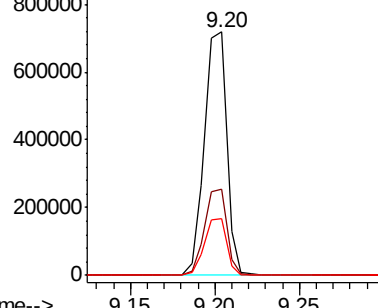


Abundance

Ion 172.00 (171.70 to 172.70): E

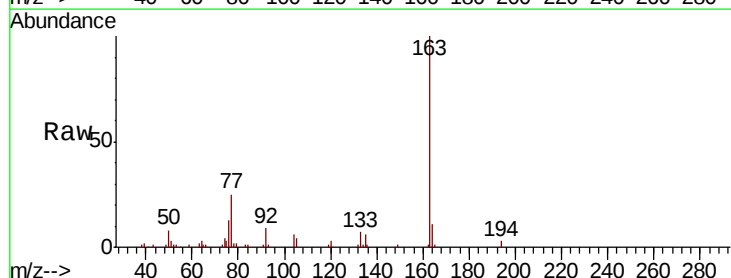
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 4.978 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.4   | 2.8   | 4.2   |
| 164     | 10.9  | 8.6   | 12.8  |

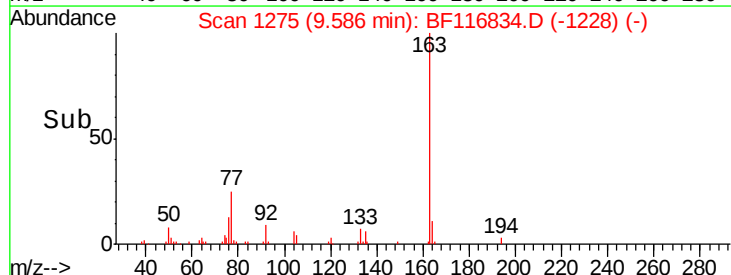
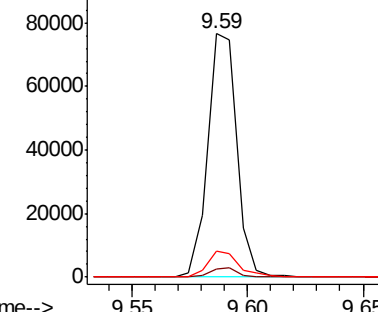


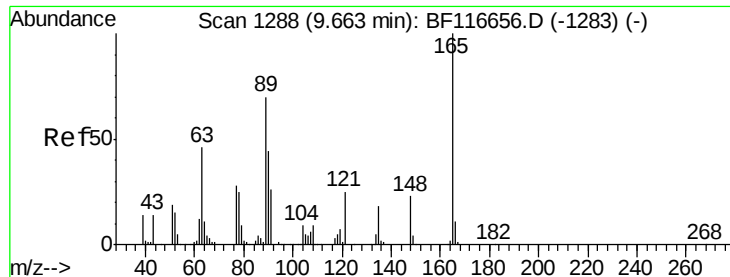
Abundance

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

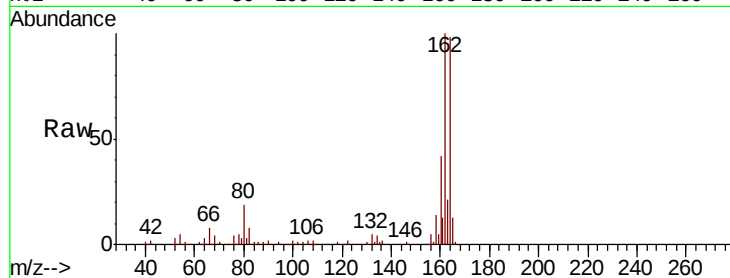




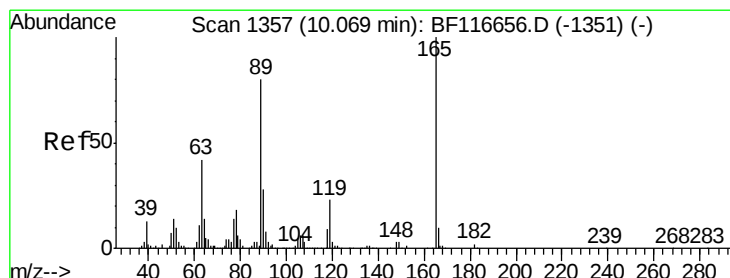
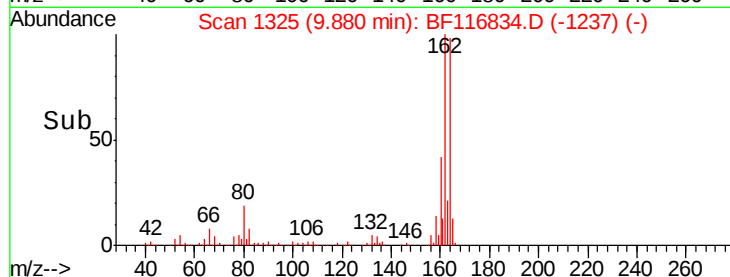
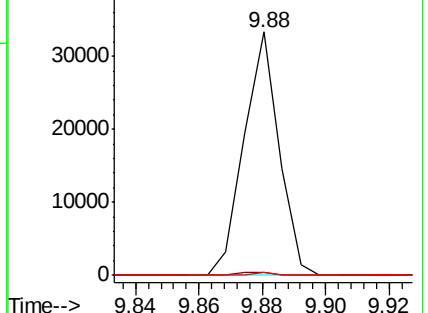
#51  
2,6-Dinitrotoluene  
Concen: 9.858 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. 0.22 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 25454  
Ion Ratio Lower Upper  
165 100  
63 1.0 47.3 70.9#  
89 1.0 52.5 78.7#

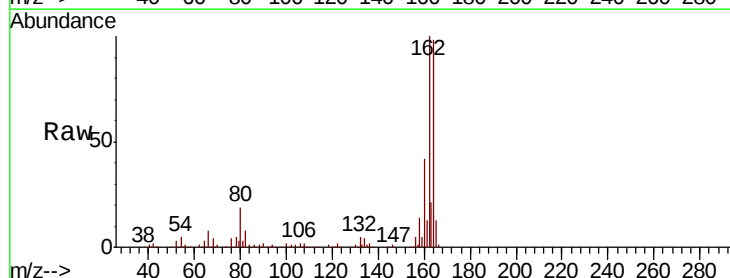


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

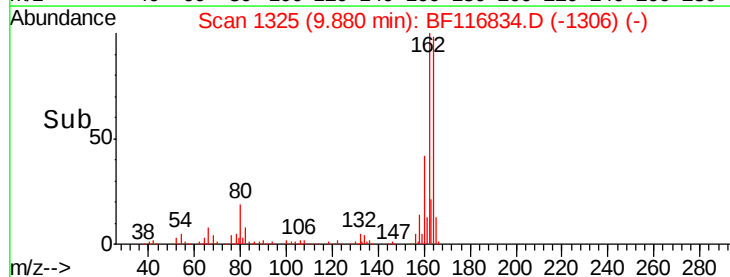
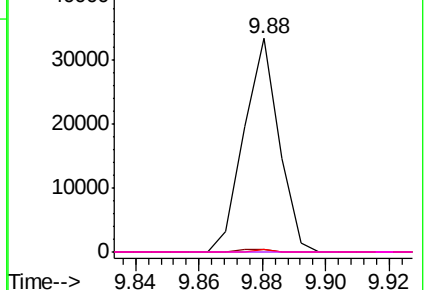


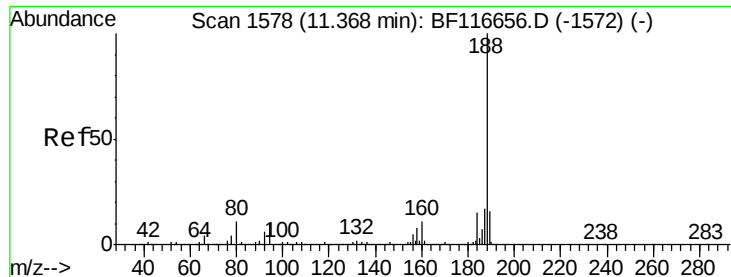
#57  
2,4-Dinitrotoluene  
Concen: 8.062 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.19 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Tgt Ion:165 Resp: 25454  
Ion Ratio Lower Upper  
165 100  
63 1.0 36.4 54.6#  
89 1.0 62.6 94.0#  
182 0.0 2.1 3.1#



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

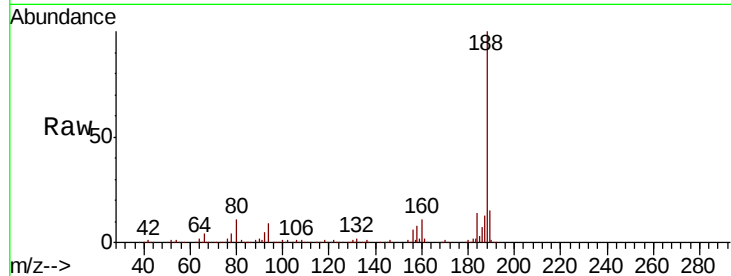




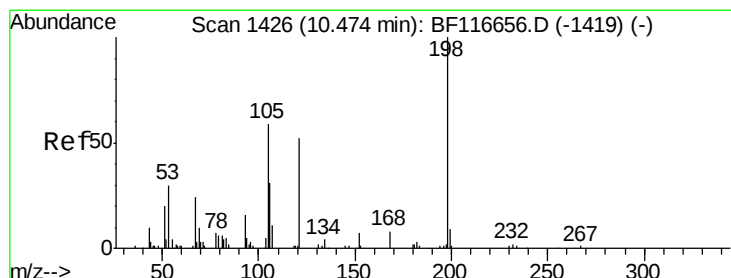
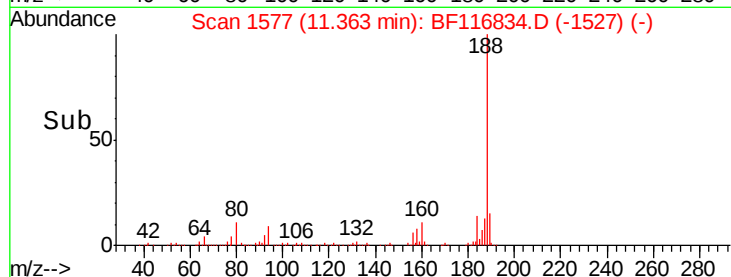
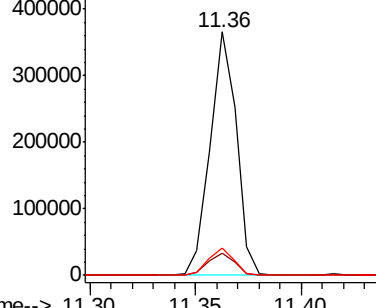
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:188 Resp: 314664  
Ion Ratio Lower Upper  
188 100  
94 9.3 7.3 10.9  
80 11.4 8.4 12.6

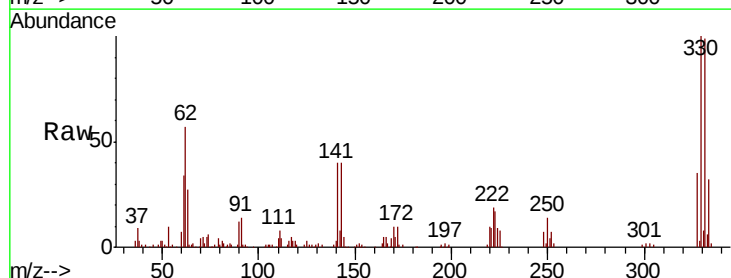


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

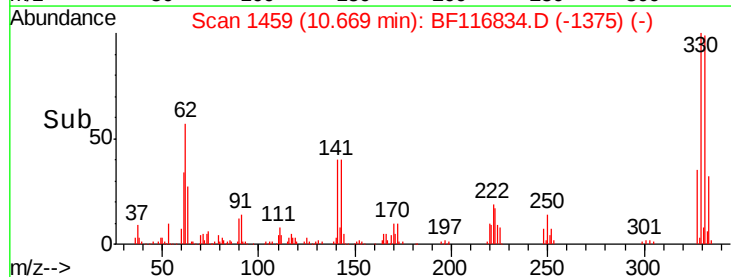
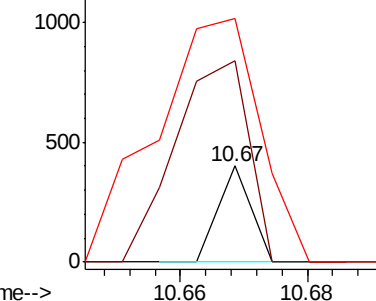


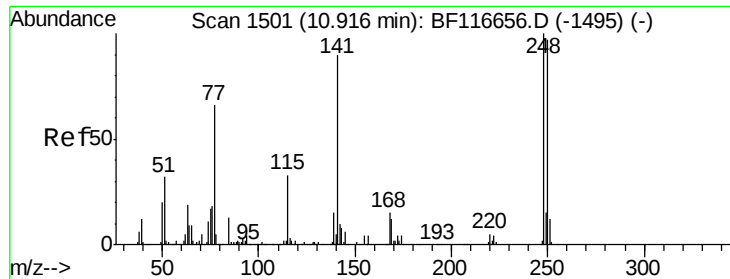
#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.555 ng  
RT: 10.67 min Scan# 1459  
Delta R.T. 0.19 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Tgt Ion:198 Resp: 142  
Ion Ratio Lower Upper  
198 100  
51 209.0 18.4 58.4#  
105 253.4 22.9 62.9#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

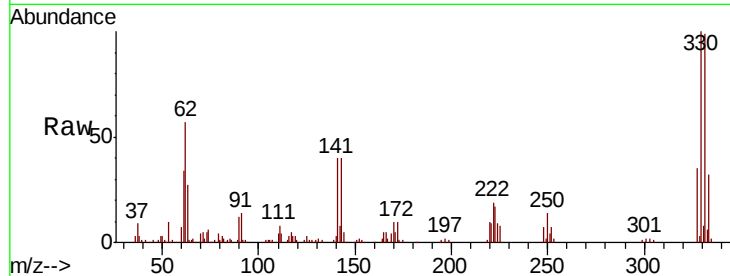




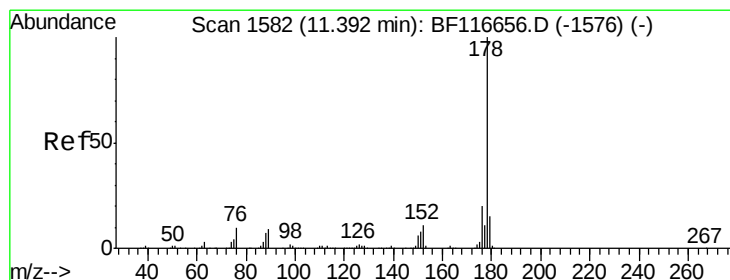
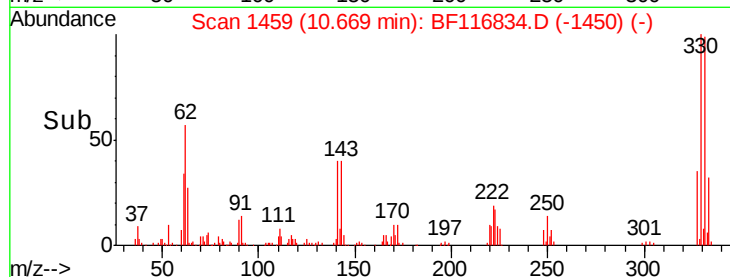
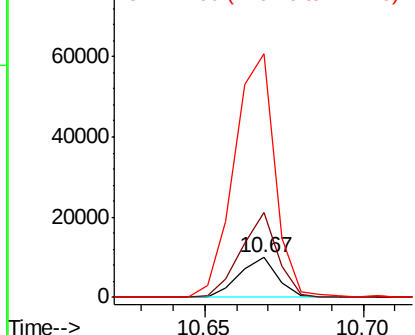
#67  
4-Bromophenyl-phenylether  
Concen: 2.552 ng  
RT: 10.67 min Scan# 1459  
Delta R.T. -0.25 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 8157  
Ion Ratio Lower Upper  
248 100  
250 213.3 77.8 116.8#  
141 615.9 75.9 113.9#

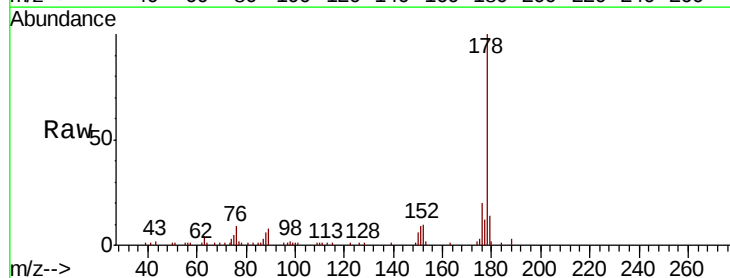


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

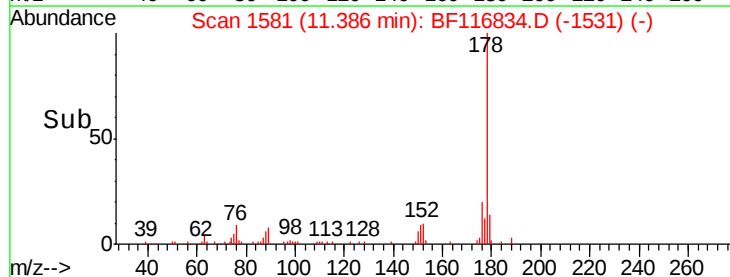
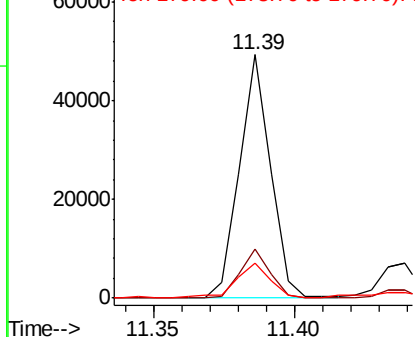


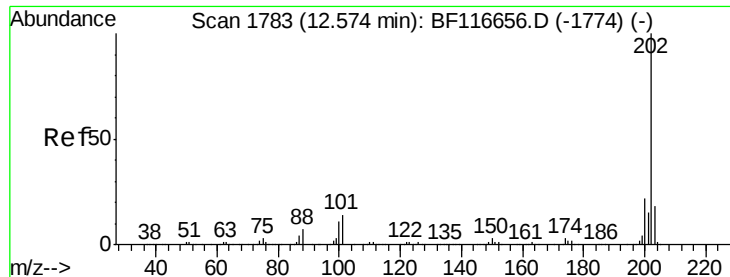
#71  
Phenanthrene  
Concen: 2.155 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Tgt Ion:178 Resp: 37756  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.4 23.0  
179 14.4 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 3.947 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF116834.D

Acq: 5 Sep 2019 13:35

Instrument :

BNA\_F

ClientSampleId :

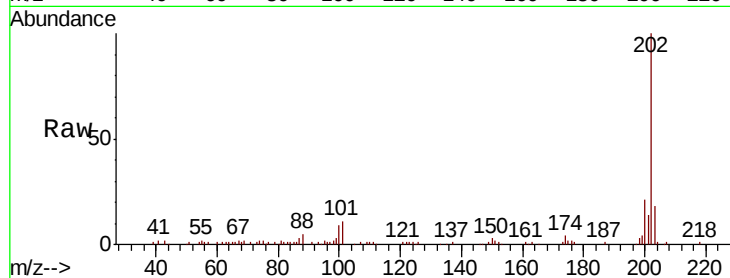
Tot Ion:202 Resp: 67947

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.3

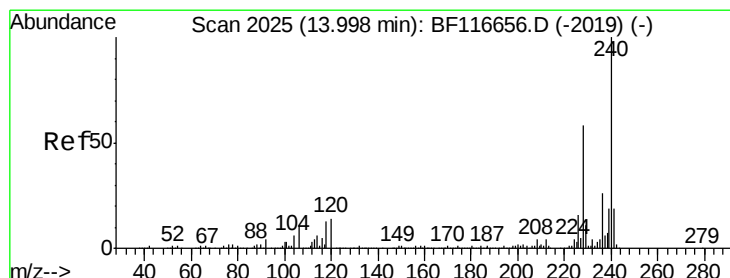
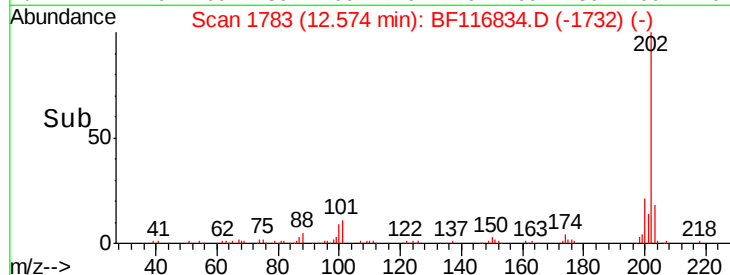
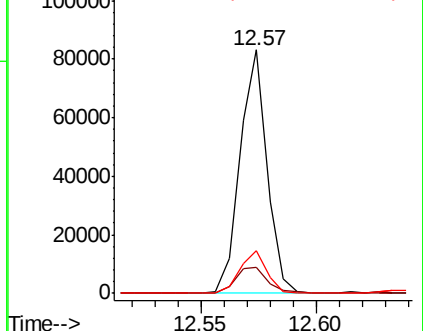
203 17.6 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.00 min

Lab File: BF116834.D

Acq: 5 Sep 2019 13:35

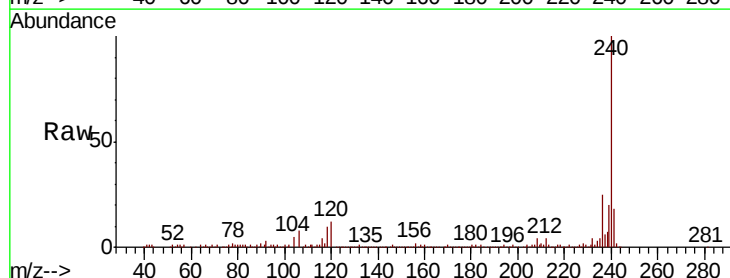
Tgt Ion:240 Resp: 230259

Ion Ratio Lower Upper

240 100

120 12.0 9.1 13.7

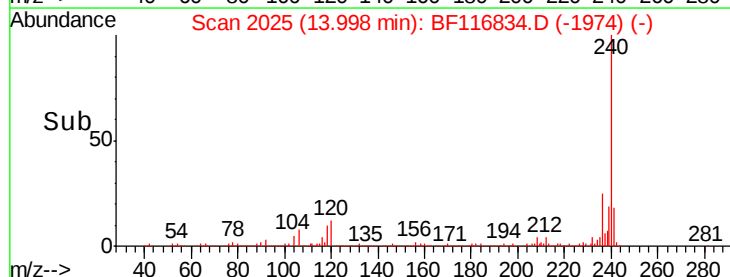
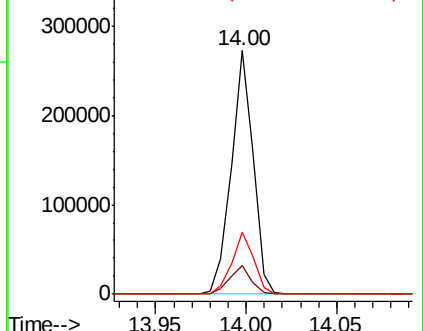
236 25.4 21.1 31.7

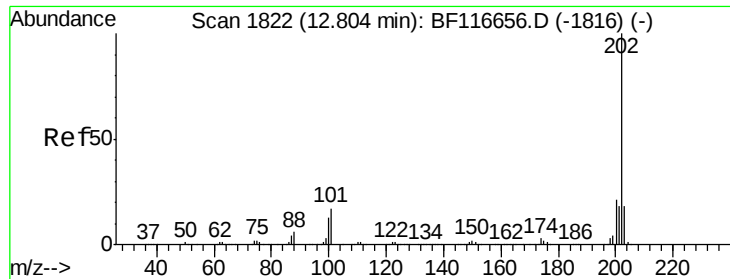


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

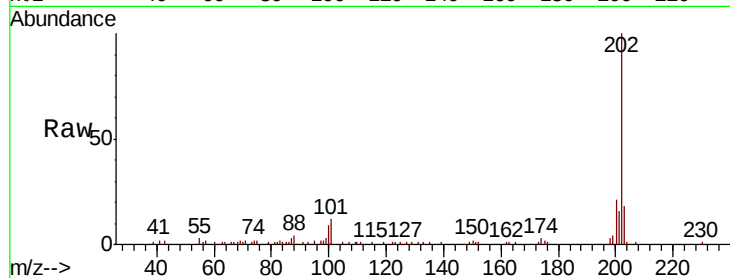




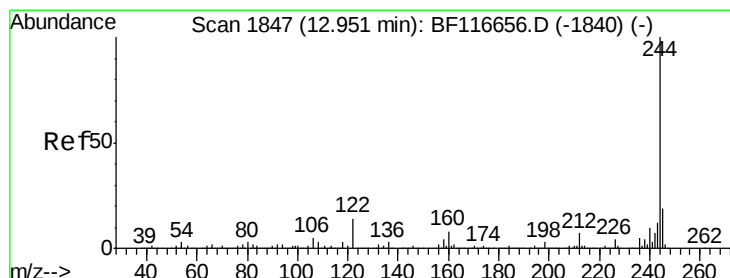
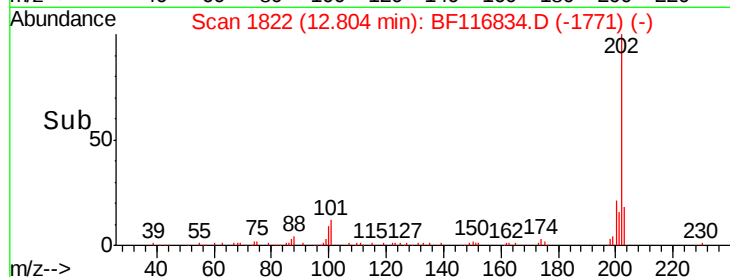
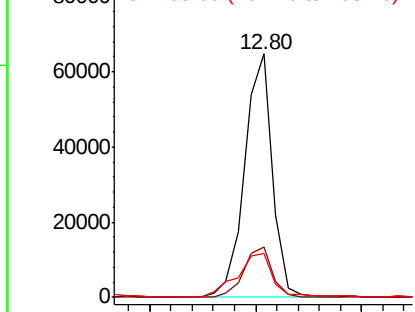
#78  
Pvrene  
Concen: 2.884 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.5  | 24.7  |
| 203     | 17.9  | 13.7  | 20.5  |

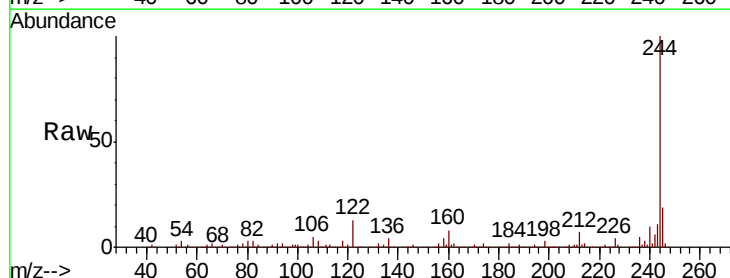


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

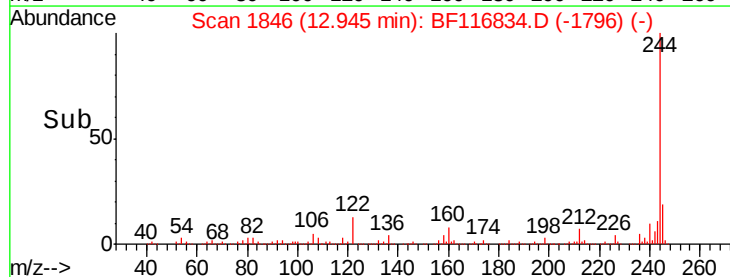
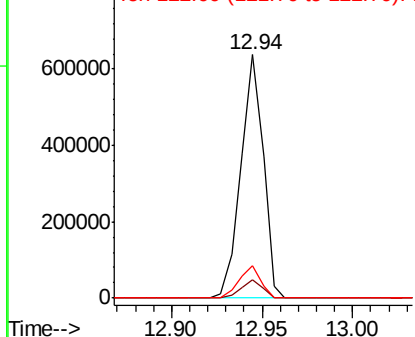


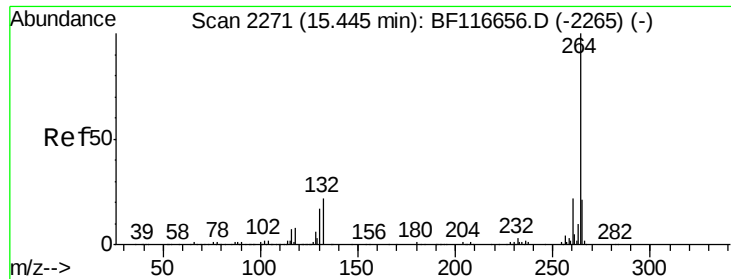
#79  
Terphenyl-d14  
Concen: 44.041 ng  
RT: 12.94 min Scan# 1846  
Delta R.T. -0.01 min  
Lab File: BF116834.D  
Acq: 5 Sep 2019 13:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.5   | 6.1   | 9.1   |
| 122     | 13.3  | 10.2  | 15.4  |



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: 15.46 min Scan# 2273

Delta R.T. 0.01 min

Lab File: BF116834.D

Acq: 5 Sep 2019 13:35

Instrument :

BNA\_F

ClientSampleId :

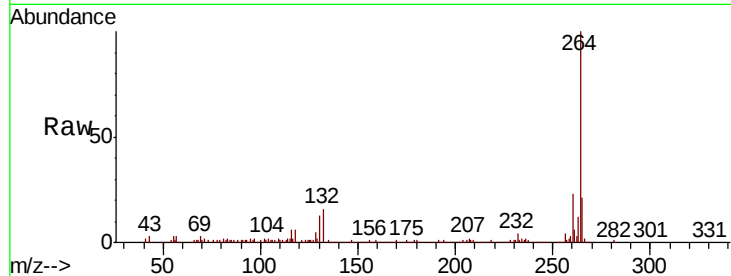
Tot Ion:264 Resp: 208631

Ion Ratio Lower Upper

264 100

260 22.8 18.3 27.5

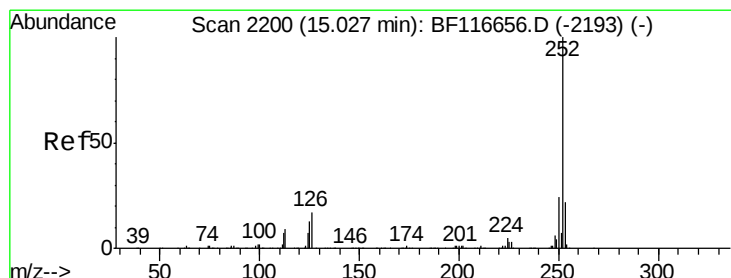
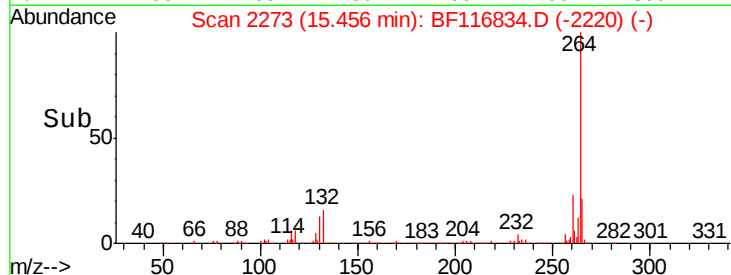
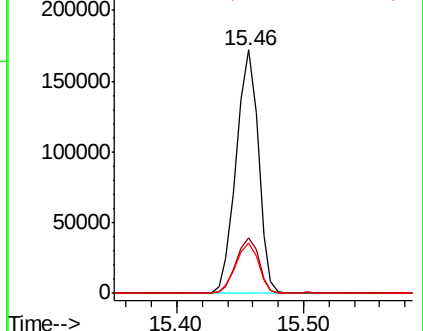
265 20.8 16.5 24.7



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



#88

Benzo(b)fluoranthene

Concen: 3.340 ng

RT: 15.03 min Scan# 2200

Delta R.T. -0.00 min

Lab File: BF116834.D

Acq: 5 Sep 2019 13:35

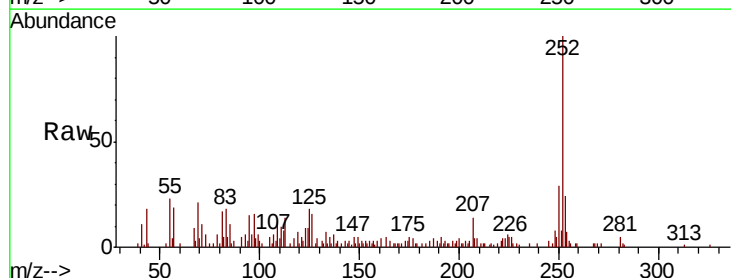
Tgt Ion:252 Resp: 42129

Ion Ratio Lower Upper

252 100

253 24.4 17.7 26.5

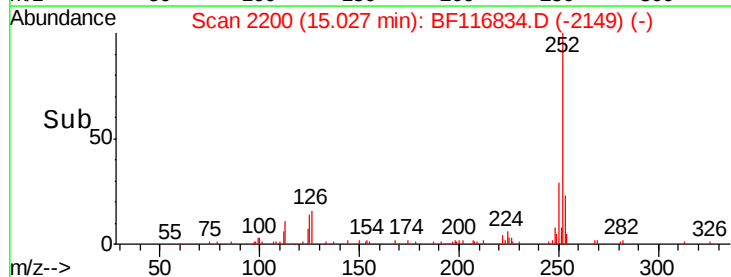
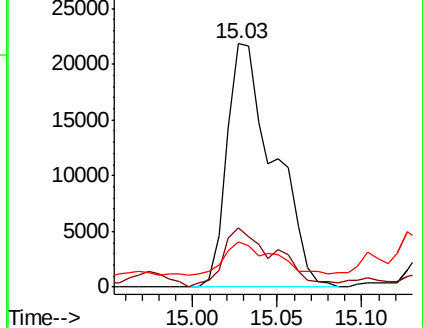
125 18.4 8.2 12.2#

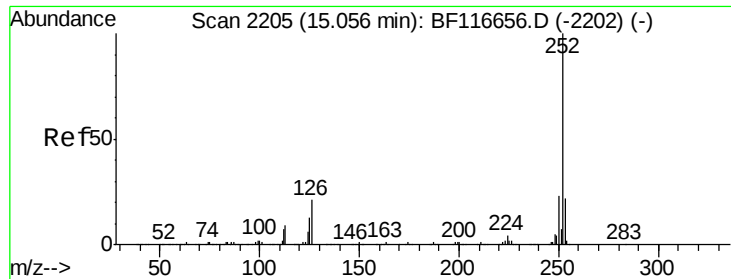


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

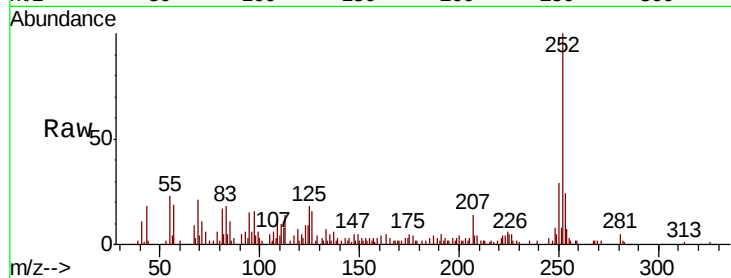




#89  
 Benzo(k)fluoranthene  
 Concen: 3.663 ng  
 RT: 15.03 min Scan# 2200  
 Delta R.T. -0.03 min  
 Lab File: BF116834.D  
 Acq: 5 Sep 2019 13:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.7  | 26.5  |
| 125     | 18.4  | 8.6   | 13.0  |



Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

