

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082319\  
 Data File : BF116521.D  
 Acq On : 24 Aug 2019 14:07  
 Operator : HP/JU  
 Sample : K4462-02 2X  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 26 02:09:02 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 23 13:38:31 2019  
 Response via : Initial Calibration

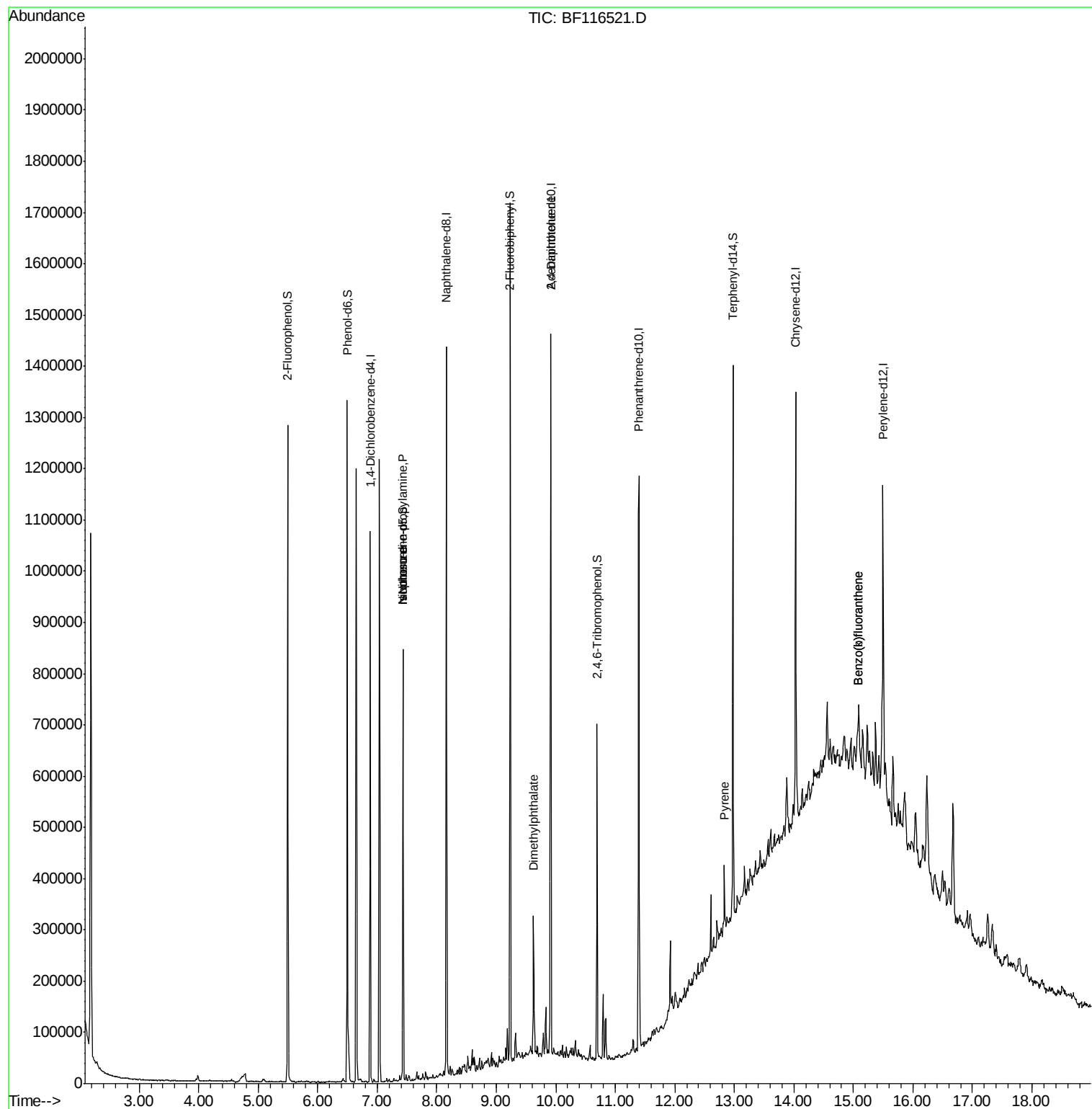
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 149351   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 558423   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.92  | 164  | 266836   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.40 | 188  | 400540   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.03 | 240  | 270272   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.50 | 264  | 286899   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 315519   | 30.87  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 419122   | 33.44  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 236315   | 23.15  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 68820    | 30.04  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 441930   | 26.67  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.97 | 244  | 345637   | 23.89  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 31907    | 3.731  | ng    | # 78     |
| 25) Isophorone                 | 7.43  | 82   | 236164   | 11.741 | ng    | # 67     |
| 50) Dimethylphthalate          | 9.62  | 163  | 79756    | 4.284  | ng    | 100      |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 35698    | 7.362  | ng    | # 21     |
| 78) Pyrene                     | 12.83 | 202  | 48798    | 2.258  | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 15.07 | 252  | 52607    | 2.968  | ng    | # 80     |
| 89) Benzo(k)fluoranthene       | 15.07 | 252  | 52607    | 3.276  | ng    | # 79     |

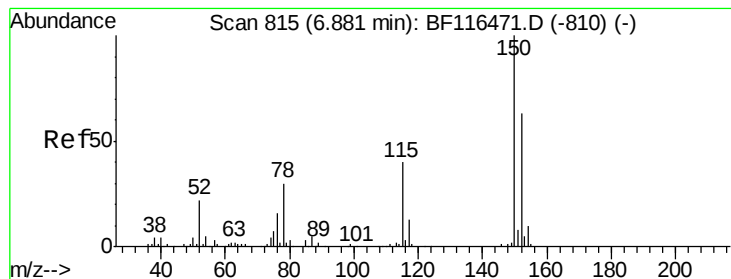
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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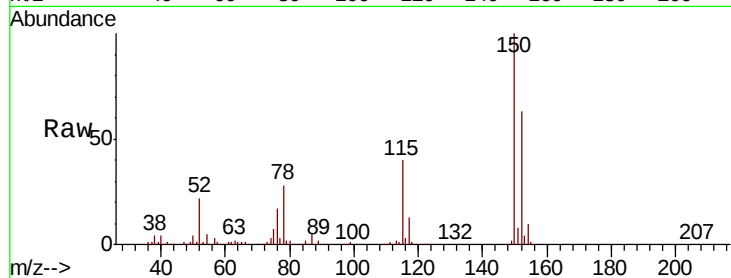


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.00 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.2 | 126.7 | 190.1 |
| 115     | 63.1  | 50.9  | 76.3  |

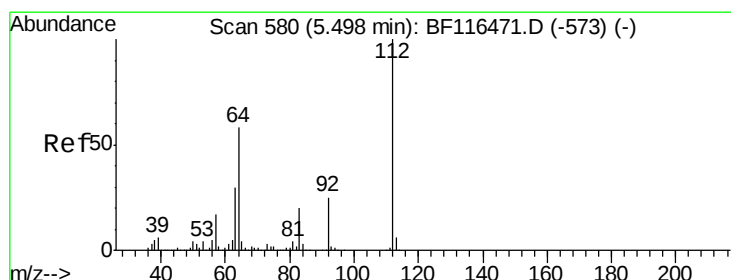
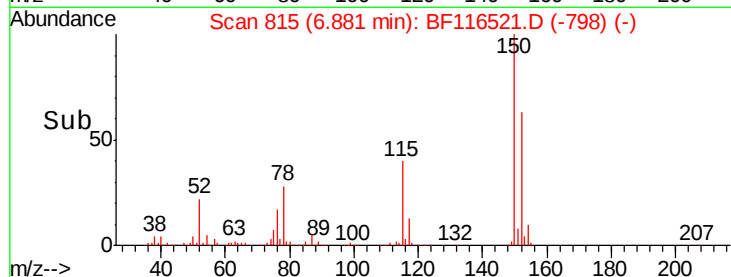
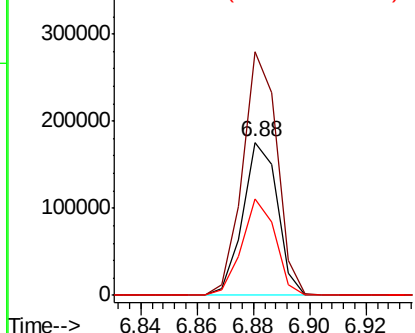


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

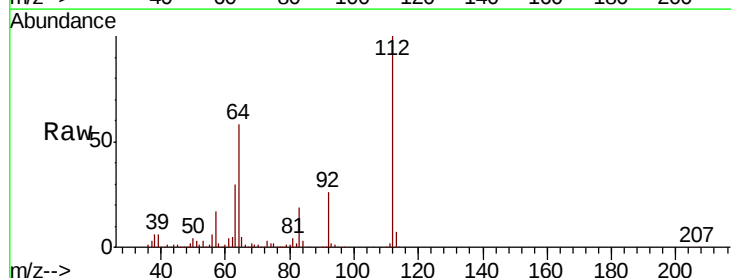
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 30.868 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.00 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.6  | 46.3  | 69.5  |
| 63      | 30.4  | 24.2  | 36.4  |

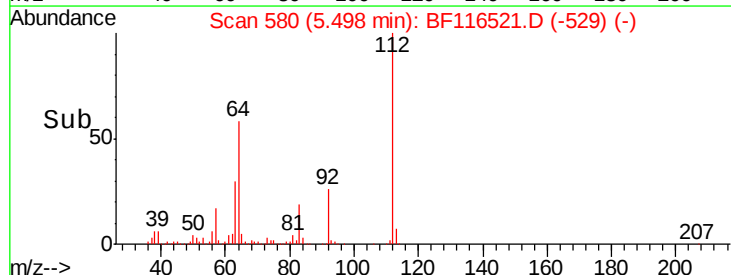
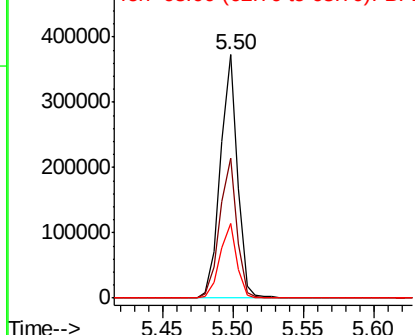


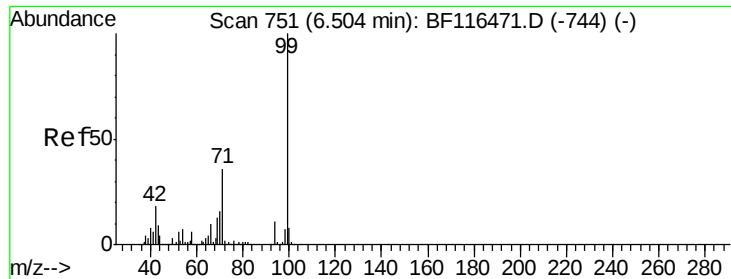
Abundance

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: 33.441 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

Instrument :

BNA\_F

ClientSampleId :

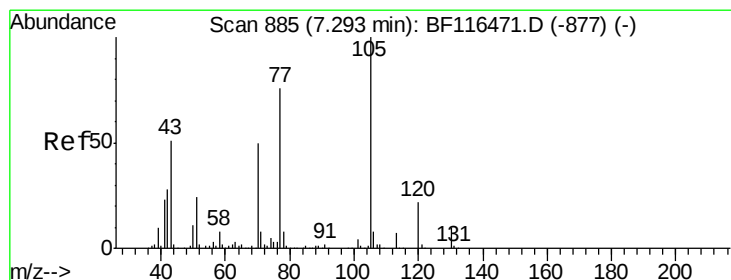
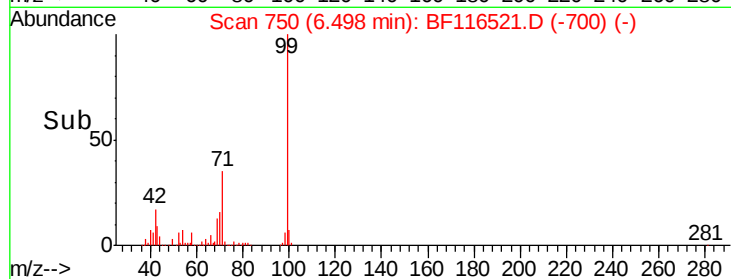
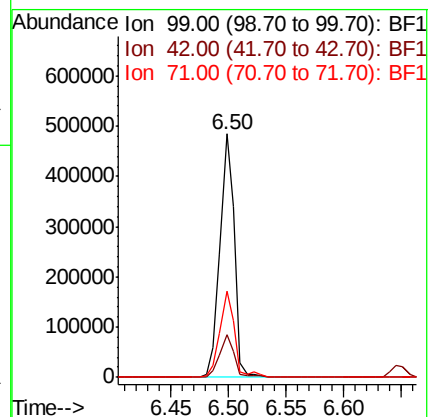
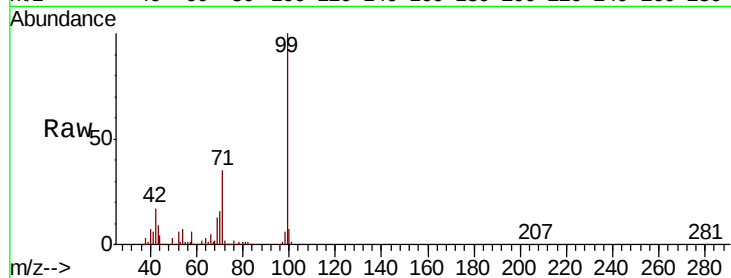
Tot Ion: 99 Resp: 419122

Ion Ratio Lower Upper

99 100

42 17.3 14.6 21.8

71 35.5 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 3.731 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.14 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

Tgt Ion: 70 Resp: 31907

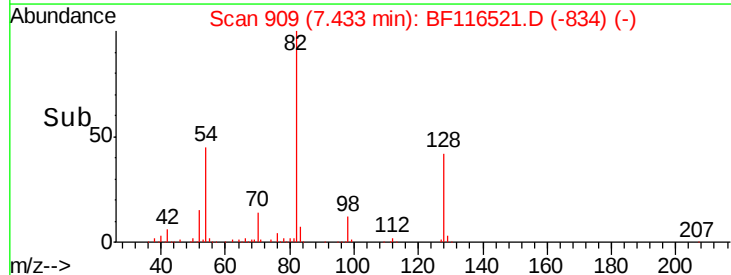
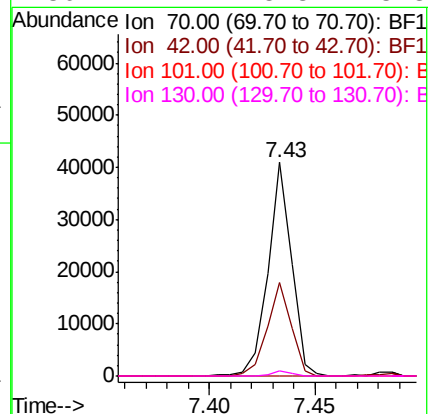
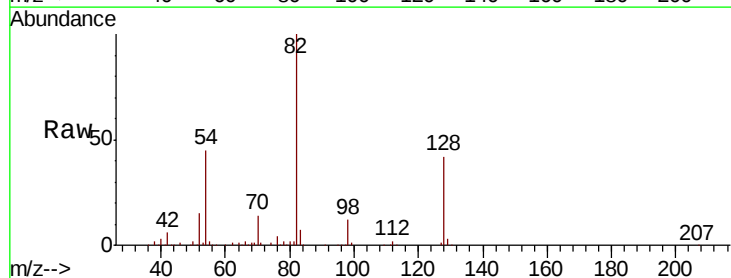
Ion Ratio Lower Upper

70 100

42 43.9 44.4 66.6#

101 0.0 7.1 10.7#

130 2.2 15.8 23.8#

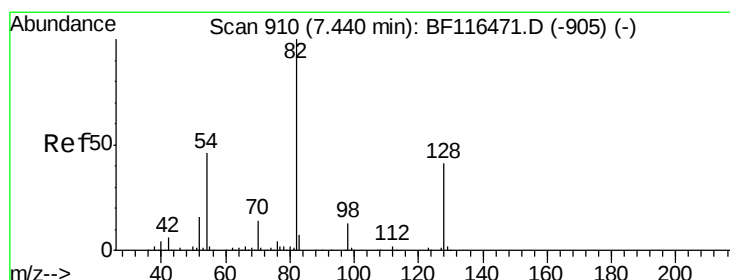
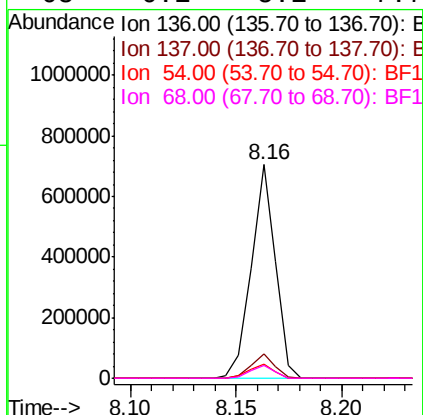
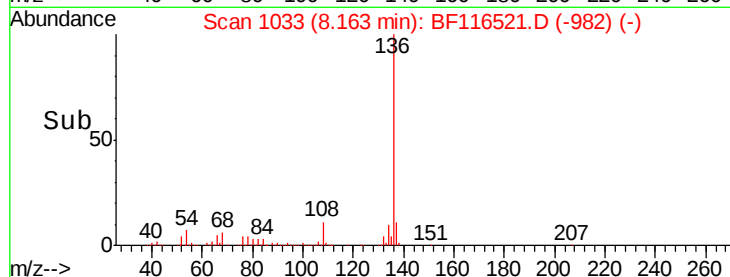
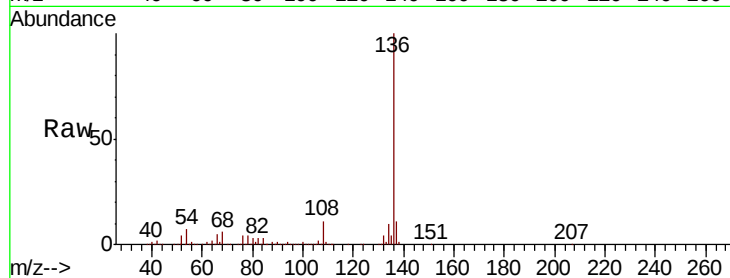




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.00 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

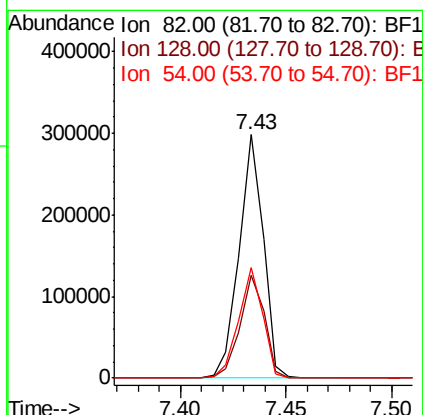
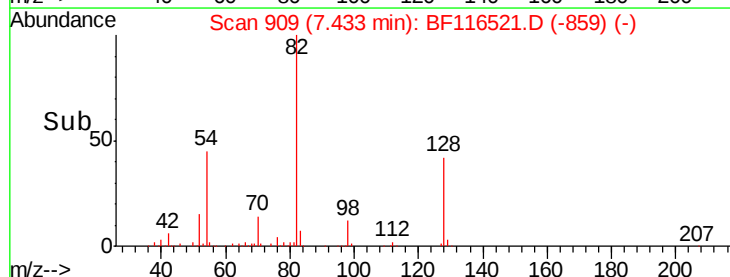
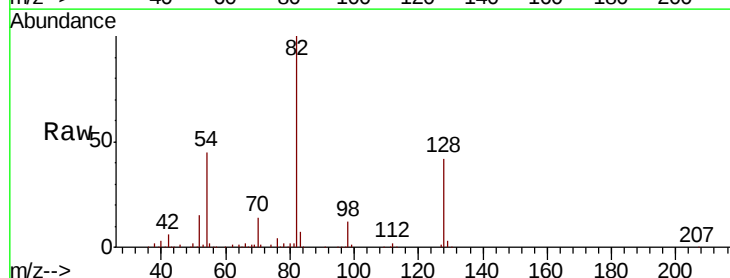
Instrument :  
BNA\_F  
ClientSampleId :

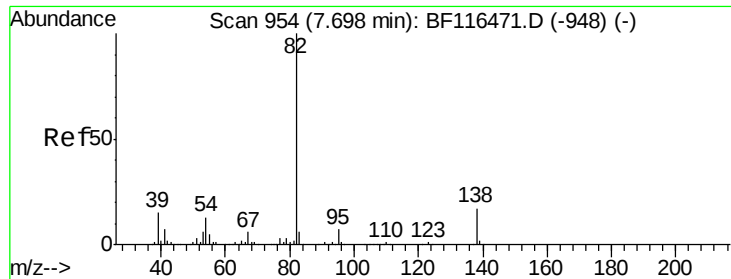
|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 558423 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.2    | 9.0   | 13.4   |  |
| 54 6.8      | 5.8   | 8.6    |  |
| 68 6.1      | 5.1   | 7.7    |  |



#23  
Nitrobenzene-d5  
Concen: 23.152 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 236315 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 42.1    | 32.2  | 48.4   |
| 54  | 45.4    | 36.5  | 54.7   |





#25

Isophorone

Concen: 11.741 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.26 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

Instrument :

BNA\_F

ClientSampleId :

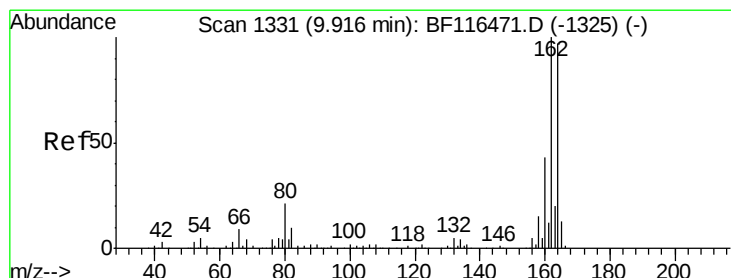
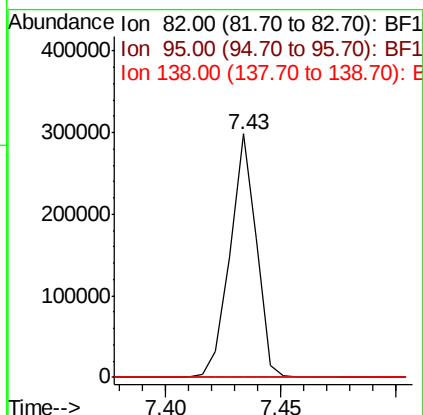
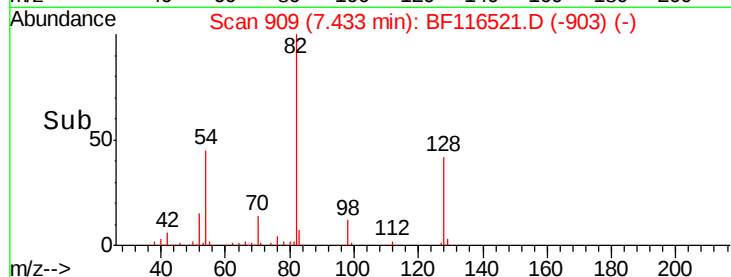
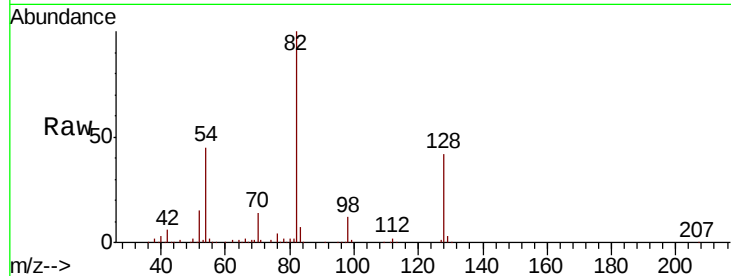
Tot Ion: 82 Resp: 236164

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

138 0.0 13.3 19.9#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.00 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

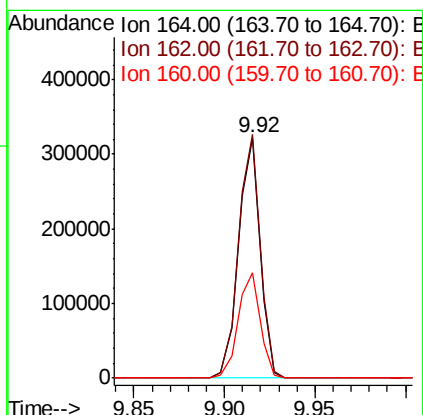
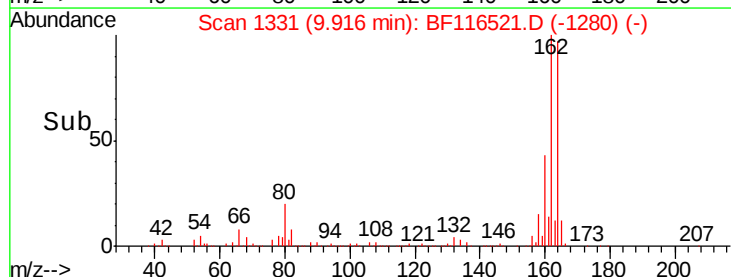
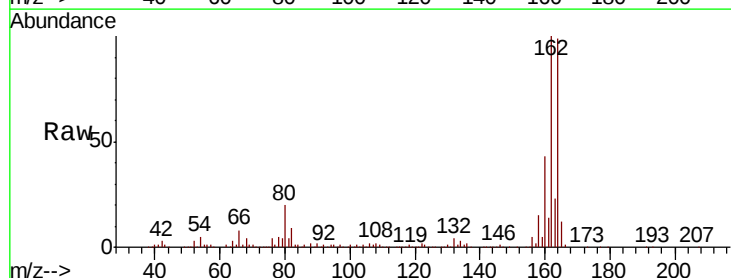
Tgt Ion:164 Resp: 266836

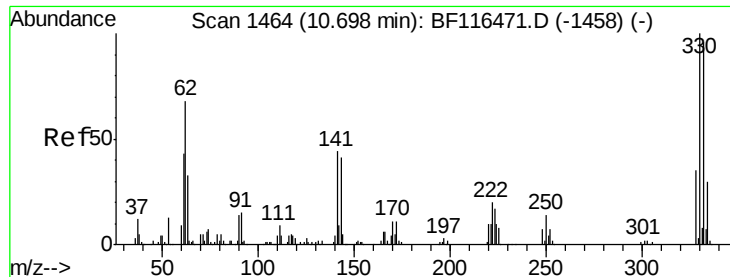
Ion Ratio Lower Upper

164 100

162 101.4 82.6 123.8

160 44.1 35.8 53.8

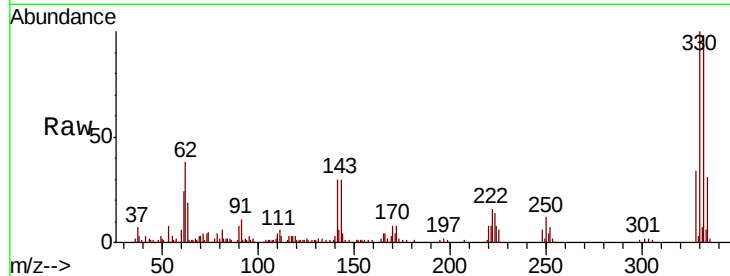




#42  
 2,4,6-Tribromophenol  
 Concen: 30.036 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.00 min  
 Lab File: BF116521.D  
 Acq: 24 Aug 2019 14:07

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.2  | 115.8 |
| 141     | 38.2  | 33.3  | 49.9  |

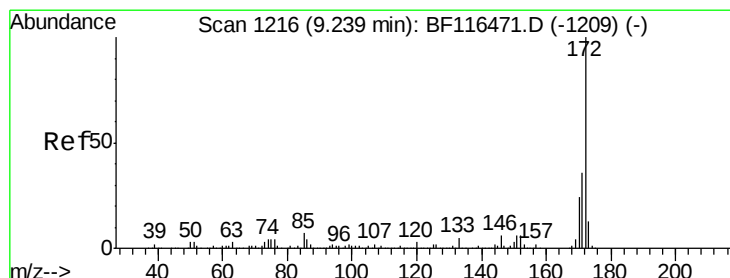
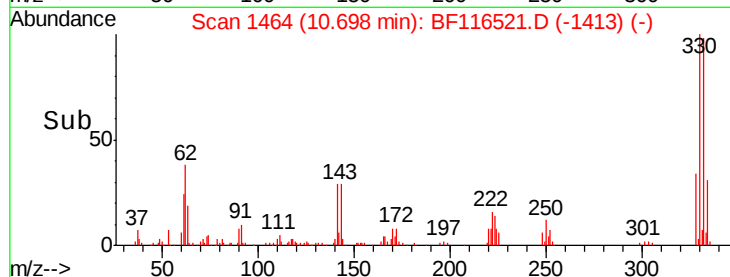
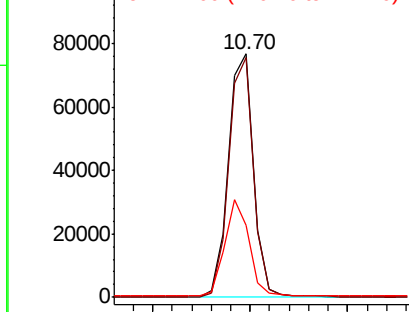


Abundance

Ion 329.80 (329.50 to 330.50): E

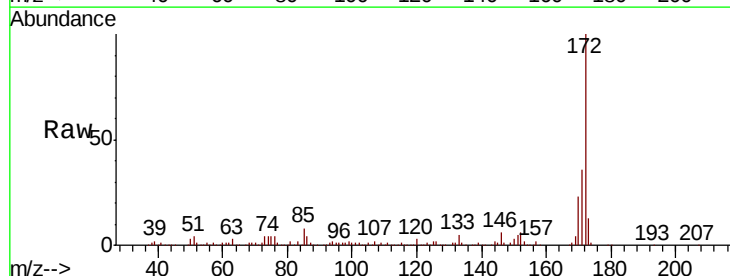
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 26.671 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. -0.01 min  
 Lab File: BF116521.D  
 Acq: 24 Aug 2019 14:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 28.9  | 43.3  |
| 170     | 23.4  | 19.4  | 29.0  |

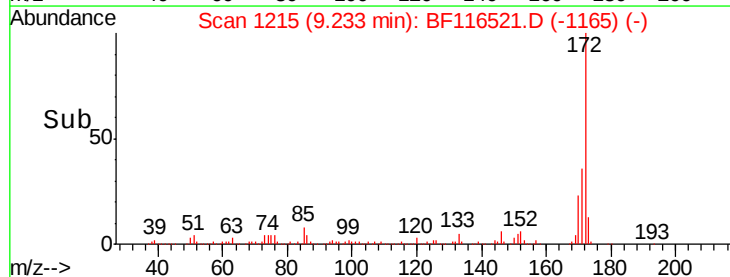
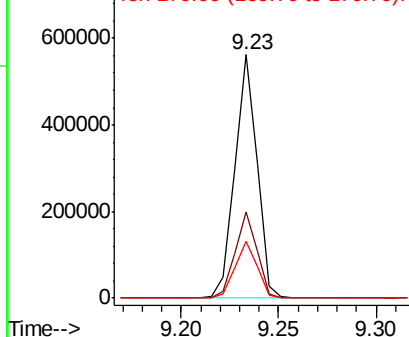


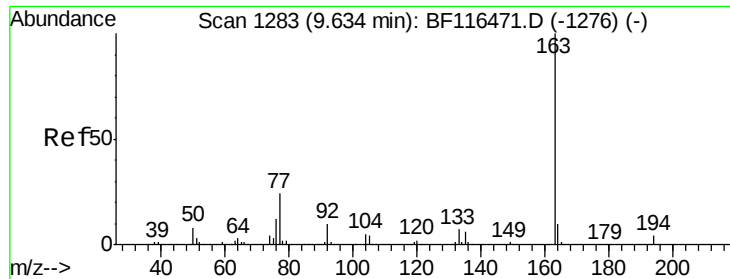
Abundance

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

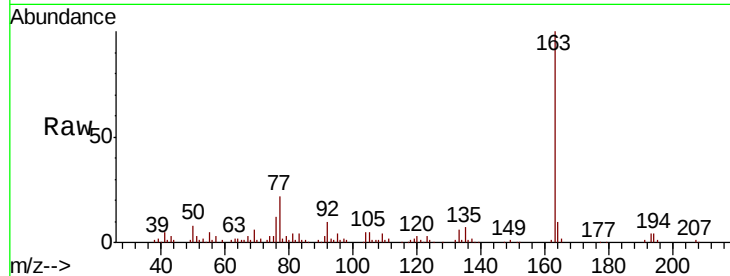




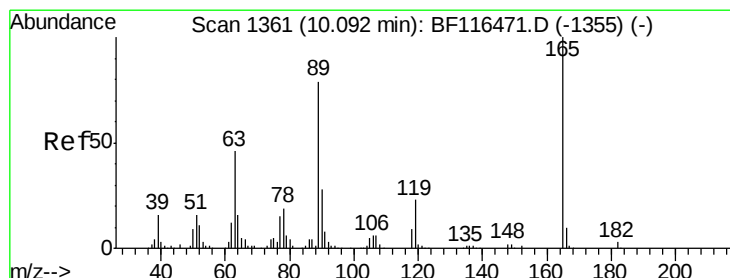
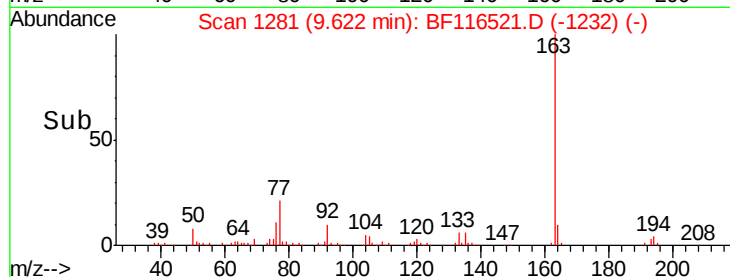
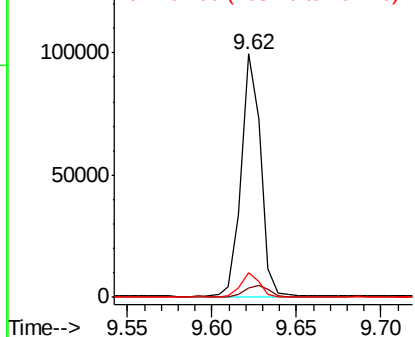
#50  
Dimethylphthalate  
Concen: 4.284 ng  
RT: 9.62 min Scan# 1281  
Delta R.T. -0.01 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 2.9   | 4.3   |
| 164     | 10.2  | 8.2   | 12.2  |

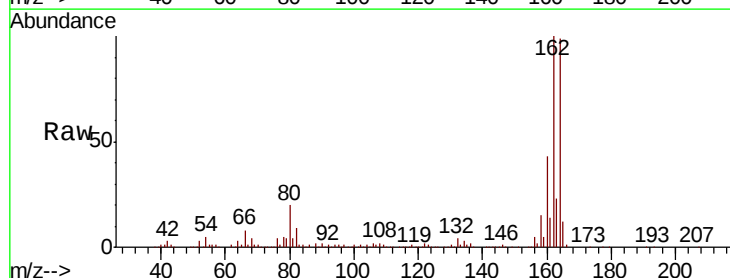


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

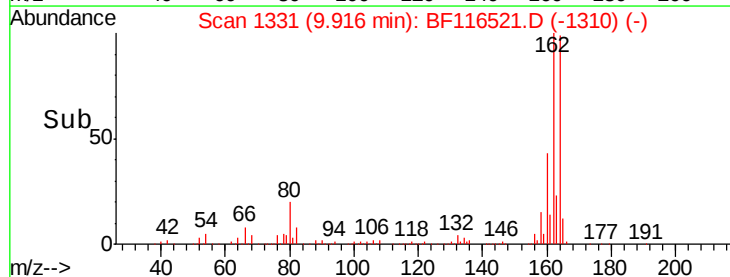
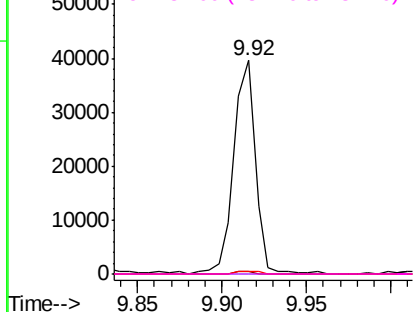


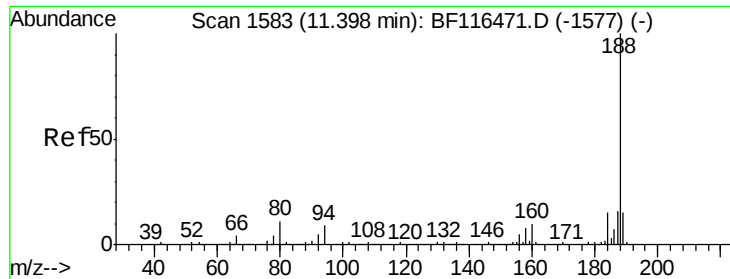
#57  
2,4-Dinitrotoluene  
Concen: 7.362 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.18 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 36.9  | 55.3# |
| 89      | 1.5   | 63.4  | 95.0# |
| 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

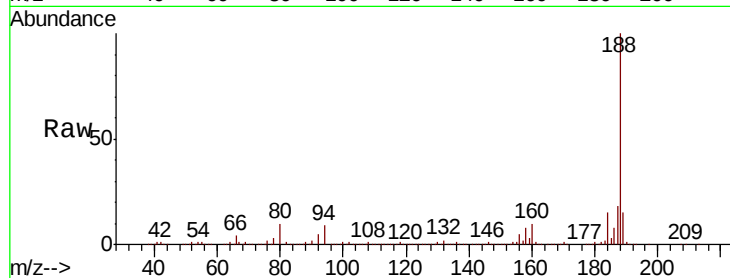




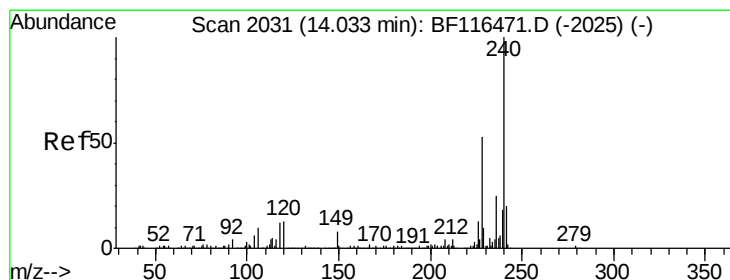
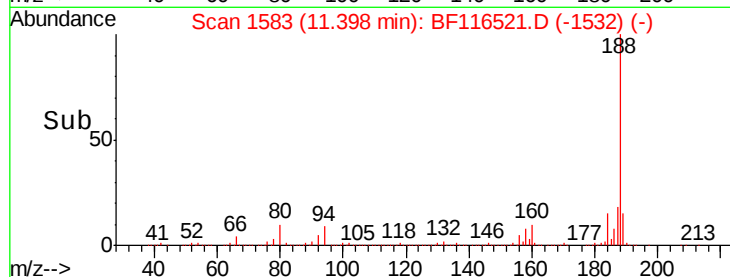
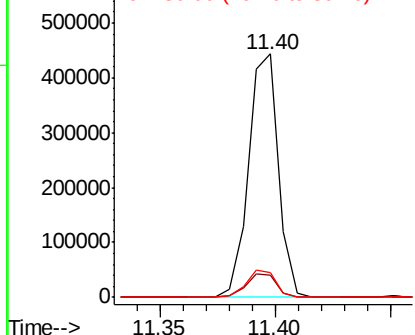
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.00 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 400540  
Ion Ratio Lower Upper  
188 100  
94 8.9 7.4 11.2  
80 10.0 8.6 12.8

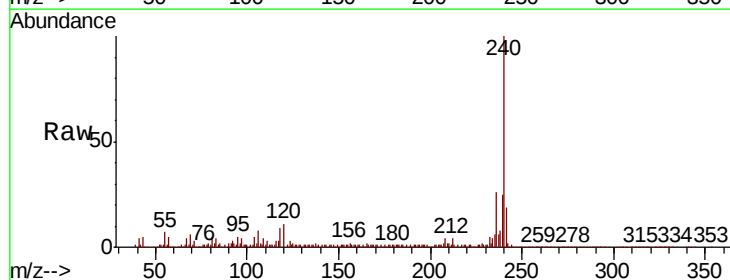


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

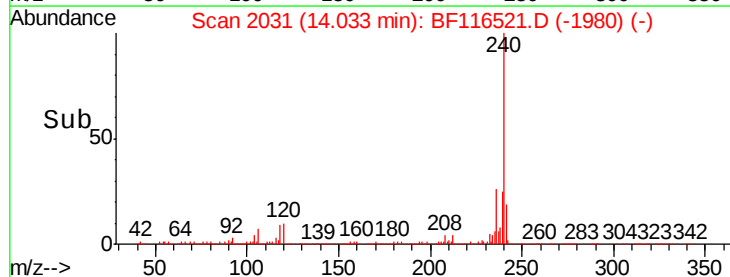
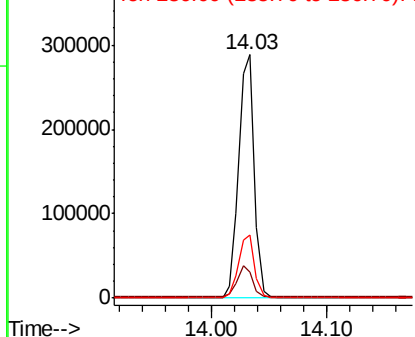


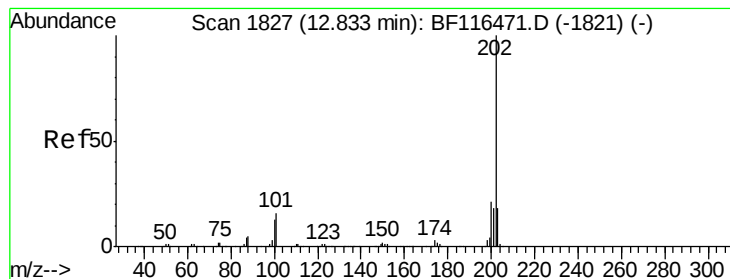
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.00 min  
Lab File: BF116521.D  
Acq: 24 Aug 2019 14:07

Tgt Ion:240 Resp: 270272  
Ion Ratio Lower Upper  
240 100  
120 10.6 10.5 15.7  
236 26.2 20.2 30.2



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: 2.258 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.00 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

Instrument :

BNA\_F

ClientSampleId :

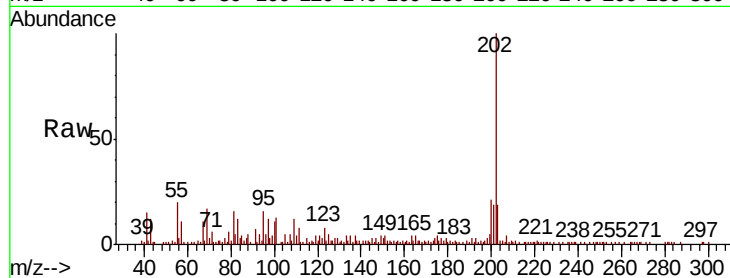
Tot Ion:202 Resp: 48798

Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.4

203 18.7 14.2 21.4

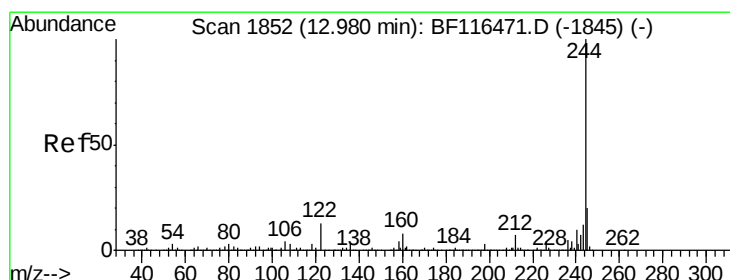
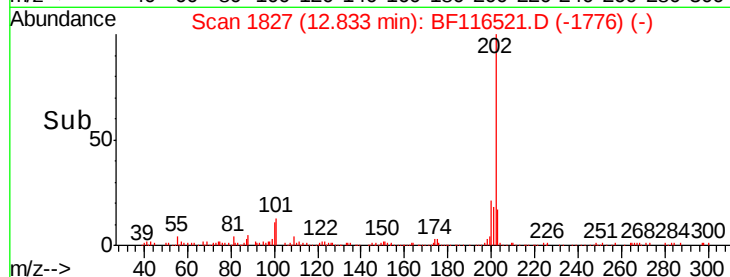
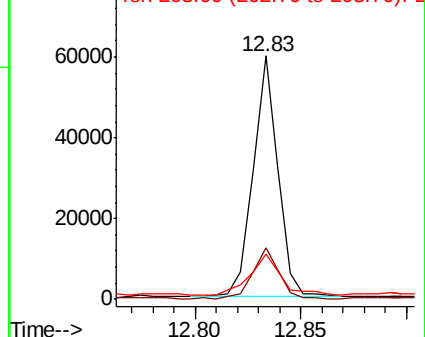


Abundance

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: 23.888 ng

RT: 12.97 min Scan# 1851

Delta R.T. -0.01 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

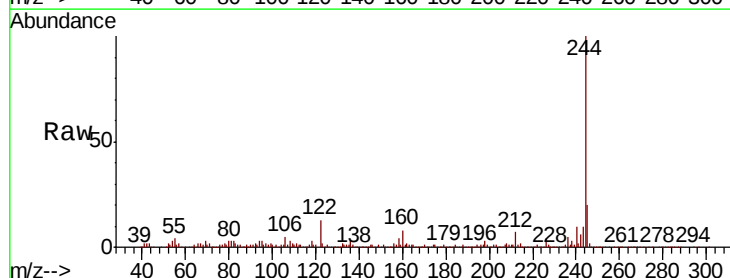
Tgt Ion:244 Resp: 345637

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

122 13.2 10.2 15.4

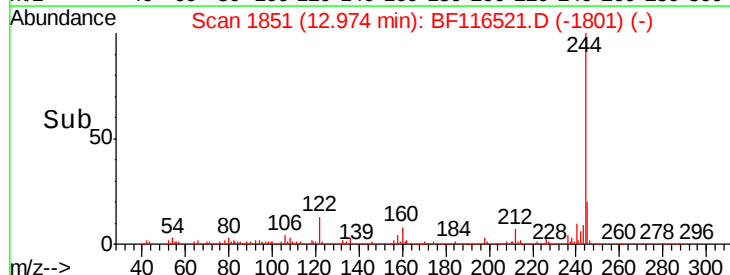
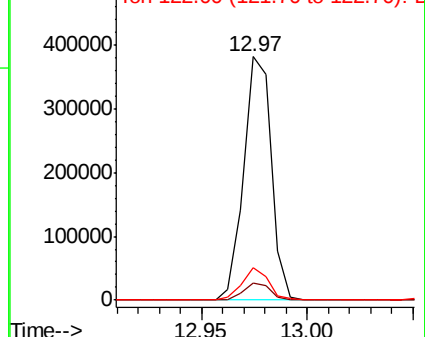


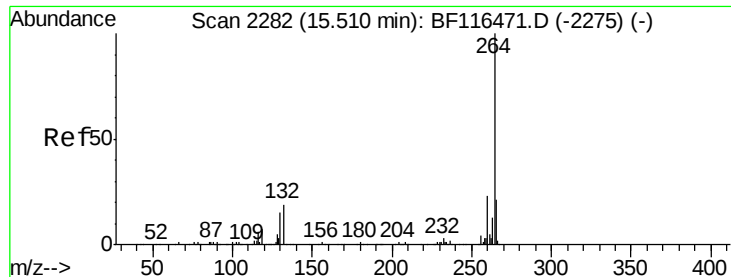
Abundance

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: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

Instrument :

BNA\_F

ClientSampled :

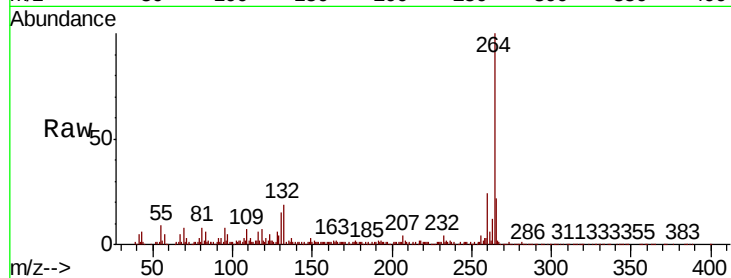
Tot Ion:264 Resp: 286899

Ion Ratio Lower Upper

264 100

260 24.1 18.8 28.2

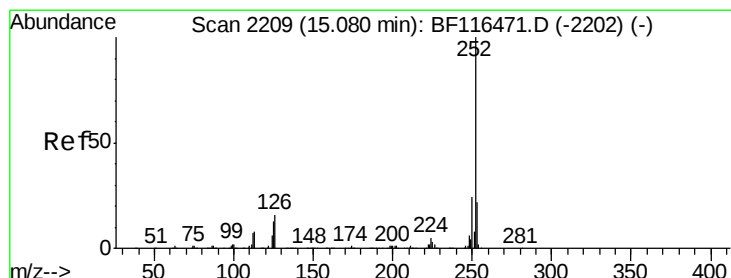
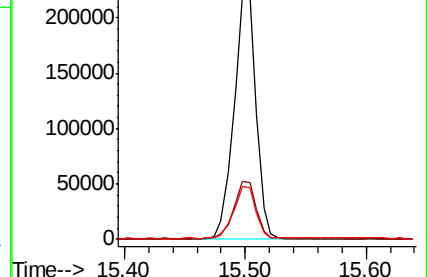
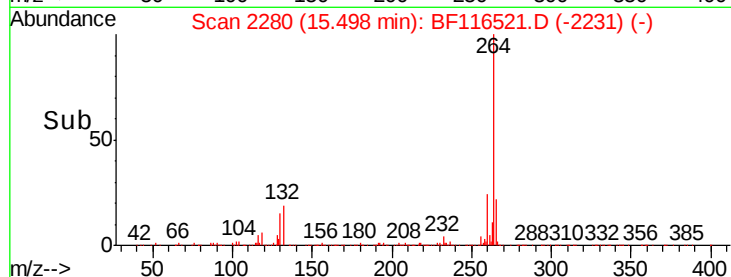
265 21.9 17.1 25.7



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: 2.968 ng

RT: 15.07 min Scan# 2207

Delta R.T. -0.01 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

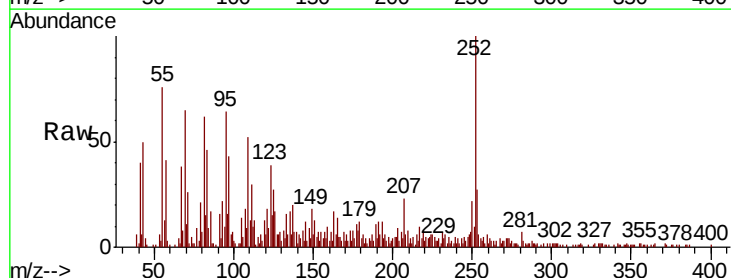
Tgt Ion:252 Resp: 52607

Ion Ratio Lower Upper

252 100

253 26.9 17.5 26.3#

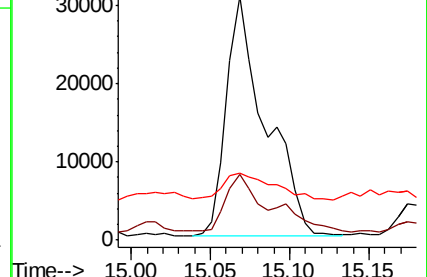
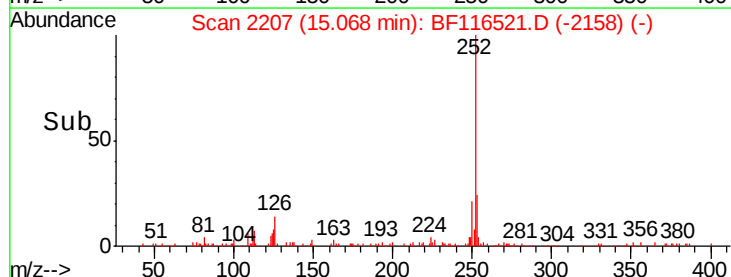
125 27.3 10.1 15.1#

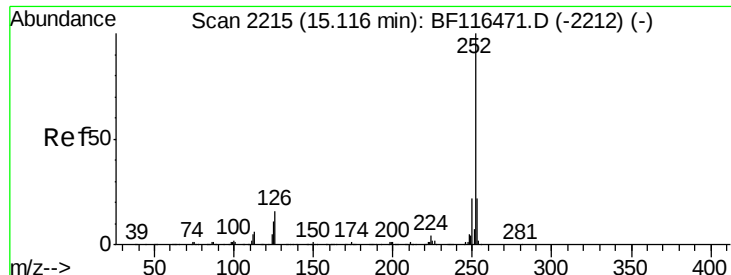


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 3.276 ng

RT: 15.07 min Scan# 2207

Delta R.T. -0.05 min

Lab File: BF116521.D

Acq: 24 Aug 2019 14:07

Instrument :

BNA\_F

ClientSampleId :

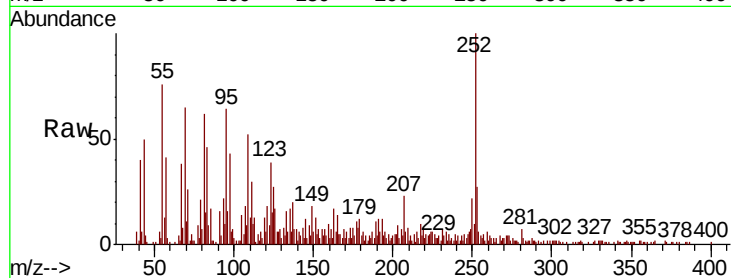
Tot Ion:252 Resp: 52607

Ion Ratio Lower Upper

252 100

253 26.9 17.4 26.2#

125 27.3 9.1 13.7#



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

