

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\  
 Data File : BF112155.D  
 Acq On : 21 Jan 2019 13:38  
 Operator : JU/SJ  
 Sample : K1102-03 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-02(15-20)

Quant Time: Jan 21 14:09:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 19 01:02:12 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 232242   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 812928   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.89  | 164  | 324191   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 468641   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 334354   | 20.00 | ng    | 0.02     |
| 87) Perylene-d12          | 15.54 | 264  | 362469   | 20.00 | ng    | 0.04     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.48  | 112  | 271684   | 21.23 | ng    | -0.01    |
| 7) Phenol-d6                | 6.49  | 99   | 340731   | 21.28 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 189447   | 16.10 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.68 | 330  | 60689    | 17.35 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 376876   | 17.04 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.97 | 244  | 223161   | 14.20 | ng    | 0.00     |

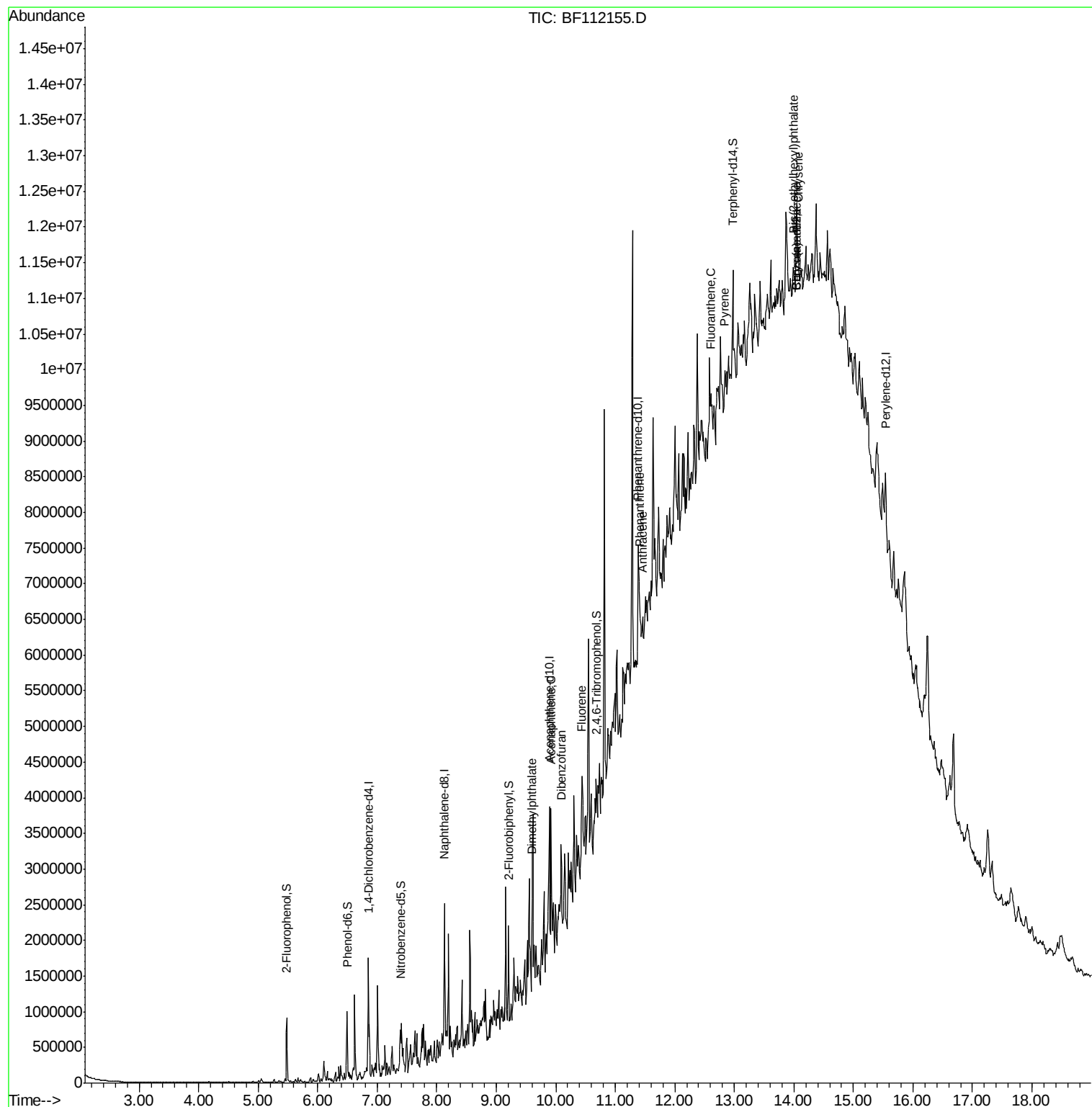
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 50) Dimethylphthalate          | 9.60  | 163  | 89243    | 3.775  | ng    | # 86   |
| 52) Acenaphthene               | 9.92  | 154  | 308971   | 16.308 | ng    | # 96   |
| 55) Dibenzofuran               | 10.10 | 168  | 186898   | 6.523  | ng    | # 91   |
| 58) Fluorene                   | 10.44 | 166  | 266375   | 12.444 | ng    | # 94   |
| 71) Phenanthrene               | 11.41 | 178  | 218502   | 9.265  | ng    | # 90   |
| 72) Anthracene                 | 11.46 | 178  | 126585   | 5.298  | ng    | # 78   |
| 75) Fluoranthene               | 12.61 | 202  | 291045   | 11.688 | ng    | # 93   |
| 78) Pyrene                     | 12.84 | 202  | 233879   | 10.602 | ng    | # 91   |
| 81) Benzo(a)anthracene         | 14.03 | 228  | 70070    | 3.655  | ng    | # 67   |
| 83) Chrysene                   | 14.07 | 228  | 61485    | 3.389  | ng    | # 62   |
| 84) Bis(2-ethylhexyl)phthalate | 14.01 | 149  | 137603   | 9.921  | ng    | # 75   |

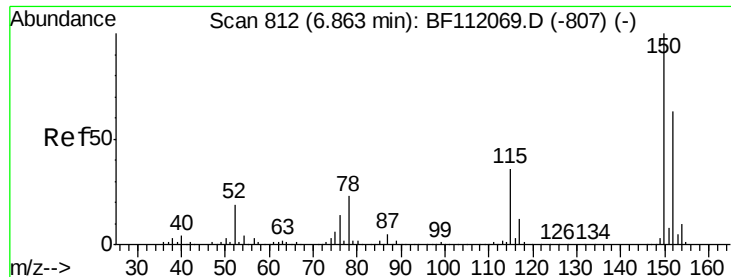
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 6 Sample Multiplier: 1

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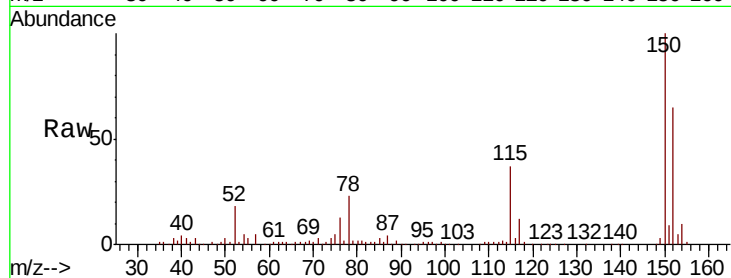


#1

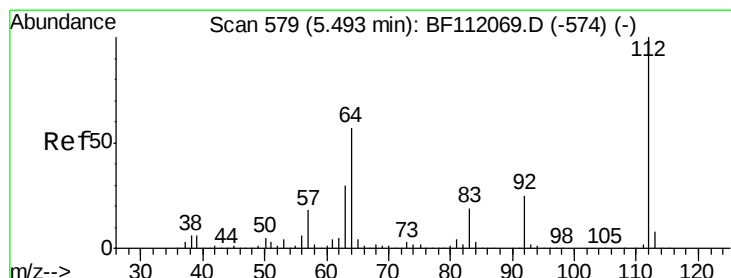
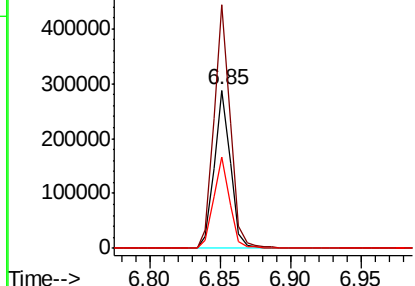
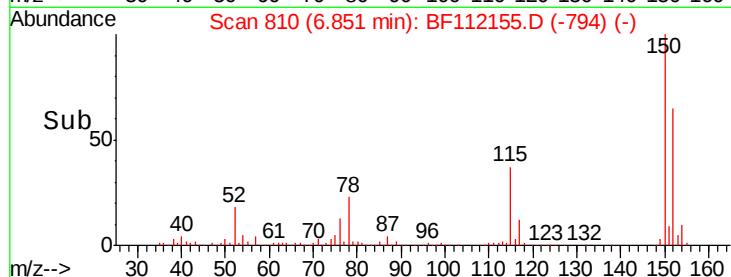
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.01 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-02(15-20)

Tot Ion:152 Resp: 232242  
Ion Ratio Lower Upper  
152 100  
150 154.0 127.4 191.0  
115 57.4 45.5 68.3



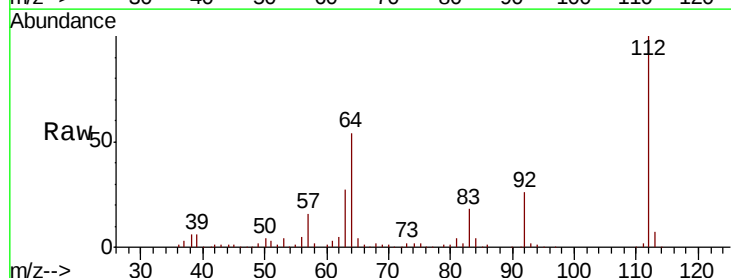
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



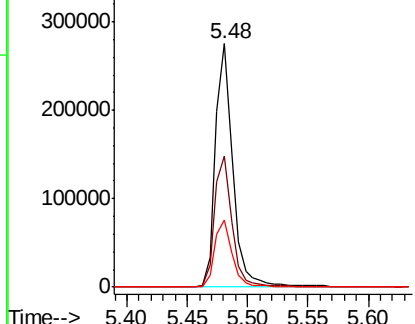
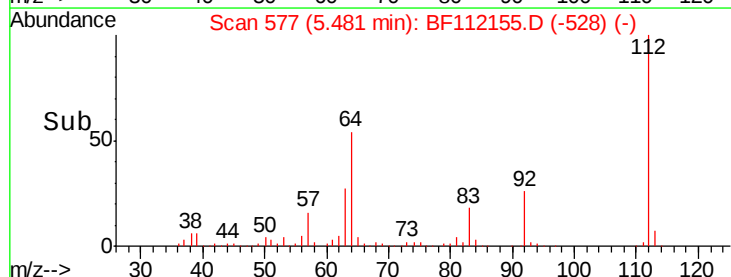
#5

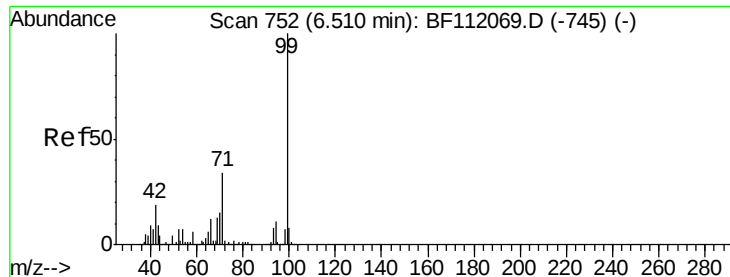
2-Fluorophenol  
Concen: 21.233 ng  
RT: 5.48 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

Tgt Ion:112 Resp: 271684  
Ion Ratio Lower Upper  
112 100  
64 53.6 45.7 68.5  
63 27.4 23.6 35.4



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: 21.284 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

Instrument :

BNA\_F

ClientSampleId :

CPSB-02(15-20)

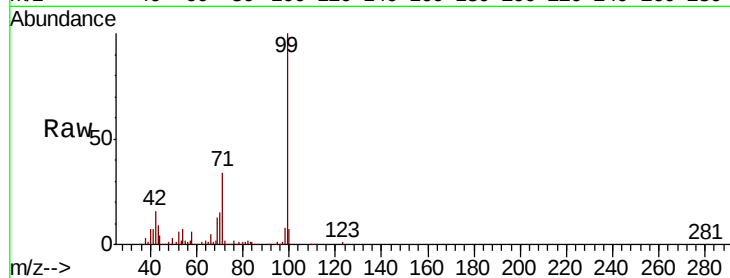
Tot Ion: 99 Resp: 340731

Ion Ratio Lower Upper

99 100

42 16.4 15.1 22.7

71 33.6 26.9 40.3



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

400000

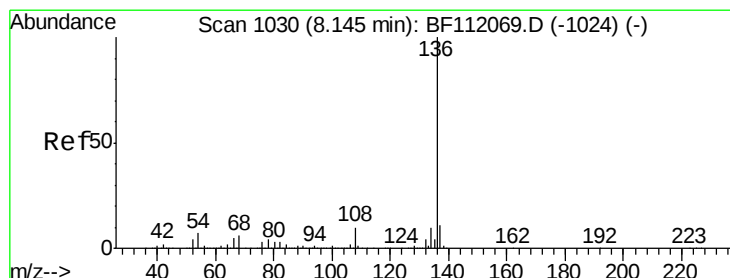
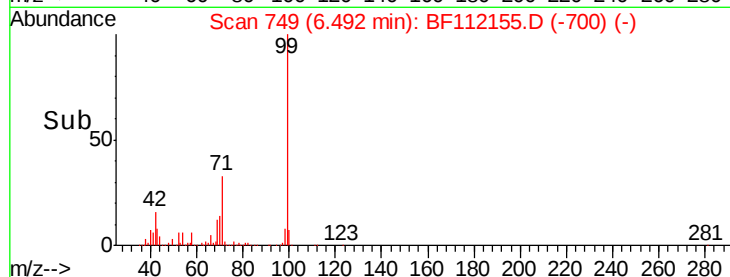
300000

200000

100000

0

Time--> 6.40 6.45 6.50 6.55 6.60



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

Tgt Ion: 136 Resp: 812928

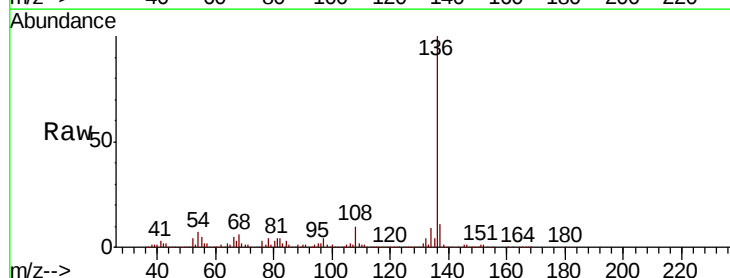
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 7.2 5.9 8.9

68 6.4 5.1 7.7



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

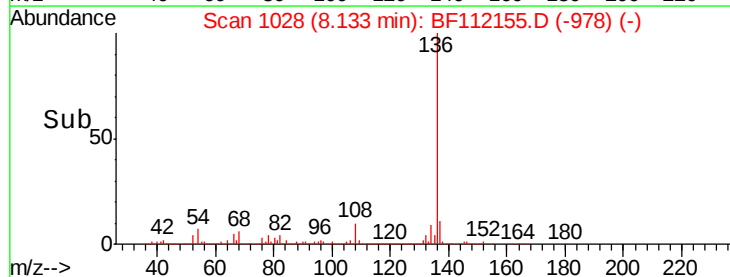
1500000

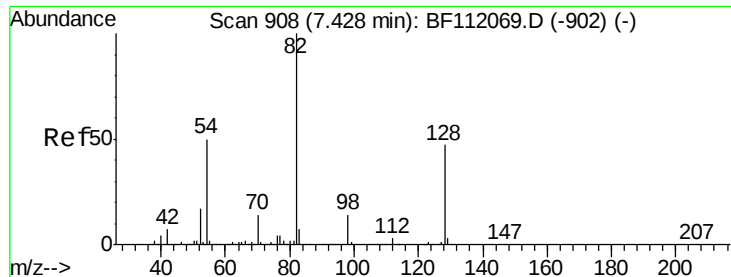
1000000

500000

0

Time--> 8.10 8.15 8.20 8.25

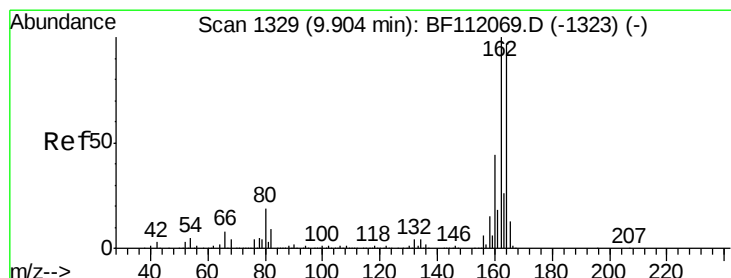
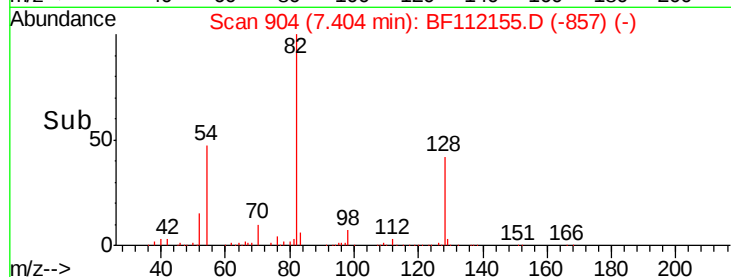
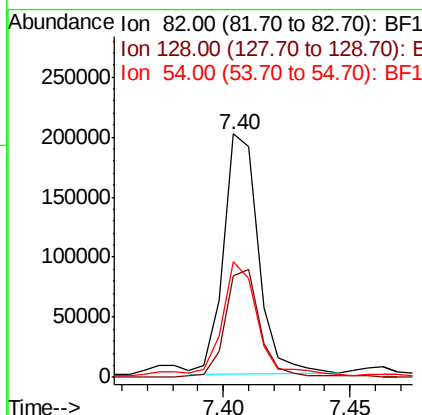
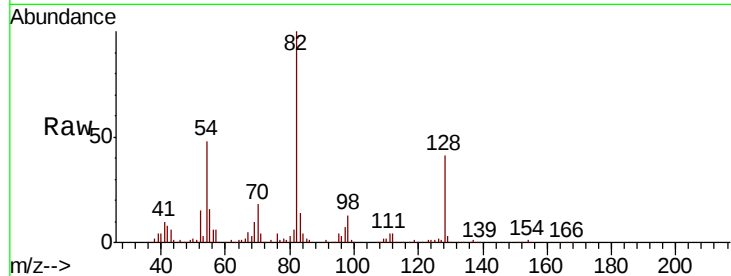




#23  
 Nitrobenzene-d5  
 Concen: 16.101 ng  
 RT: 7.40 min Scan# 904  
 Delta R.T. -0.02 min  
 Lab File: BF112155.D  
 Acq: 21 Jan 2019 13:38

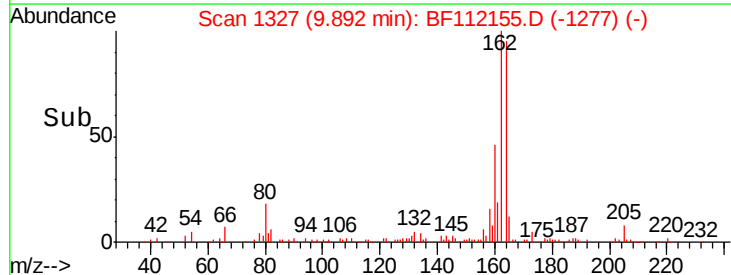
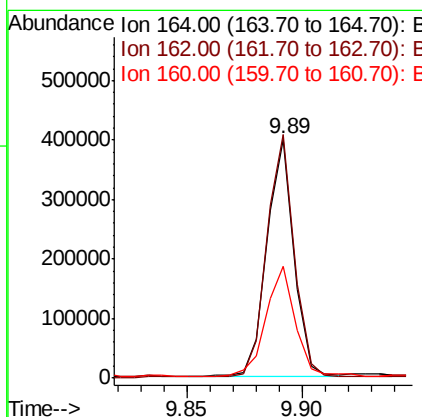
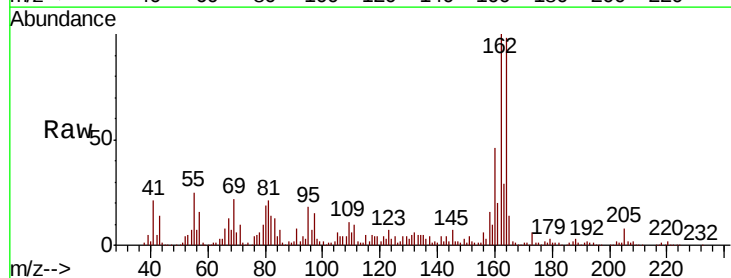
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-02(15-20)

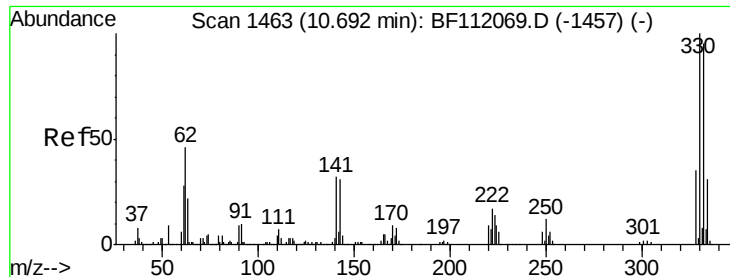
| Tot Ion   | 82    | Resp  | 189447 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 41.5  | 37.8  | 56.8   |
| 54        | 47.6  | 39.7  | 59.5   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. -0.01 min  
 Lab File: BF112155.D  
 Acq: 21 Jan 2019 13:38

| Tgt Ion   | 164   | Resp  | 324191 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 102.0 | 82.2  | 123.4  |
| 160       | 46.9  | 36.2  | 54.4   |





#42

2,4,6-Tribromophenol

Concen: 17.353 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

Instrument :

BNA\_F

ClientSampleId :

CPSB-02(15-20)

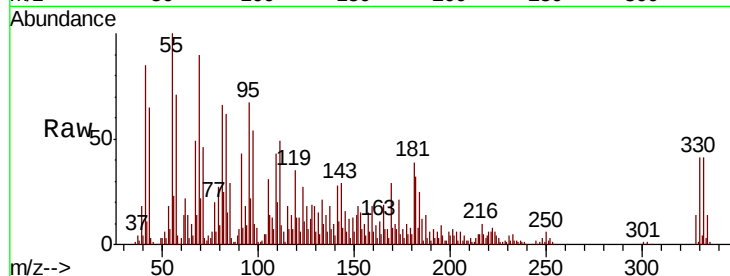
Tot Ion:330 Resp: 60689

Ion Ratio Lower Upper

330 100

332 98.7 76.6 114.8

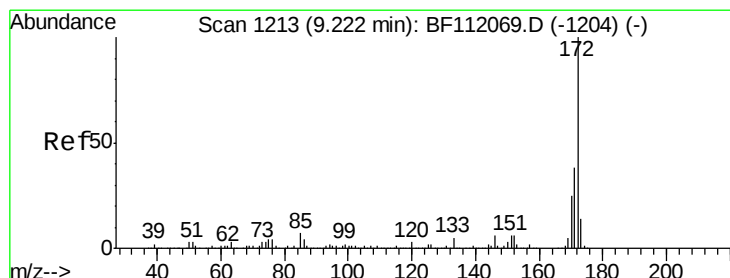
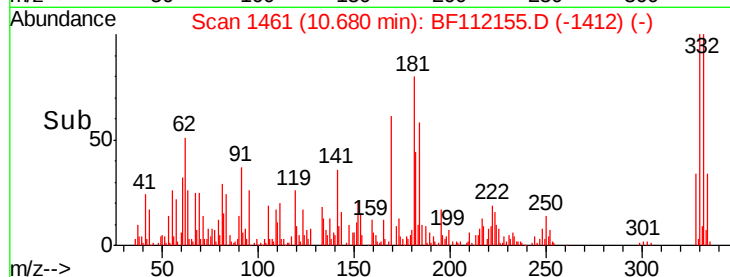
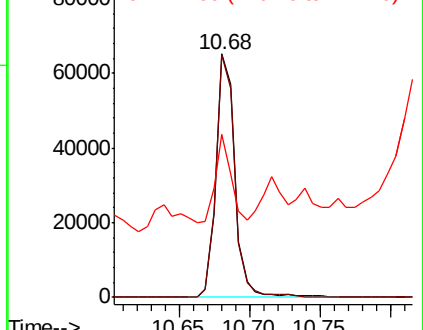
141 29.1 24.3 36.5



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: 17.044 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

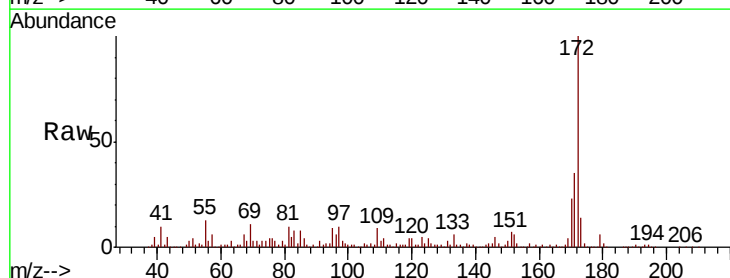
Tgt Ion:172 Resp: 376876

Ion Ratio Lower Upper

172 100

171 35.4 30.5 45.7

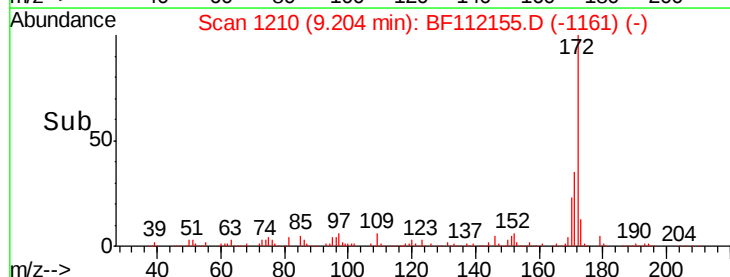
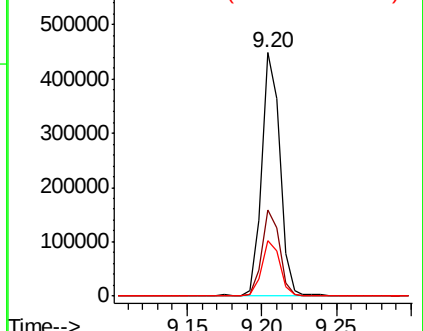
170 22.7 20.2 30.4

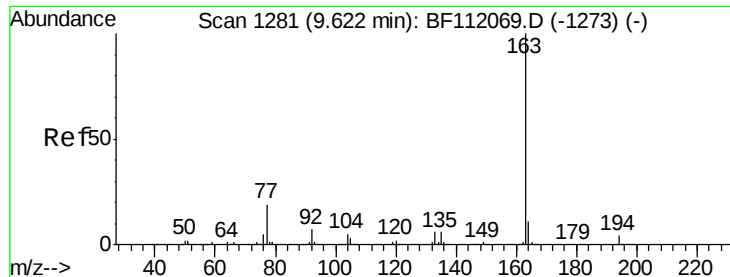


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

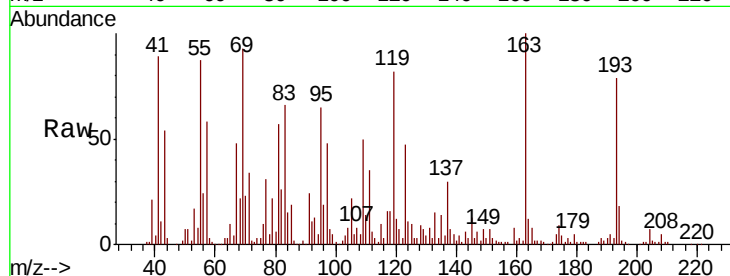




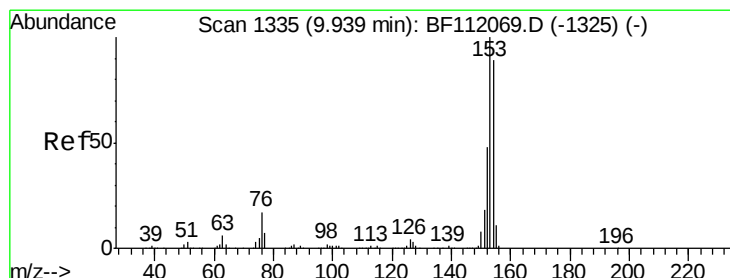
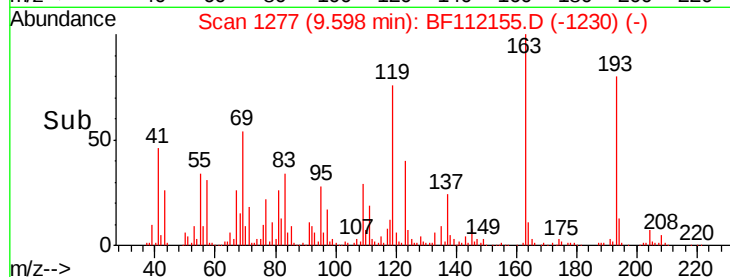
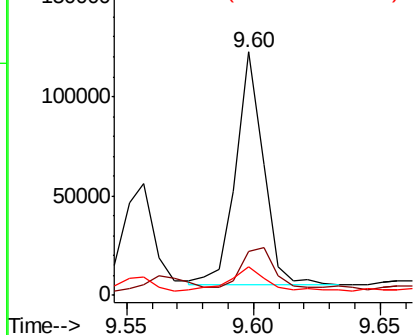
#50  
Dimethylphthalate  
Concen: 3.775 ng  
RT: 9.60 min Scan# 1277  
Delta R.T. -0.02 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

Instrument :  
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CPSB-02(15-20)

Tot Ion:163 Resp: 89243  
Ion Ratio Lower Upper  
163 100  
194 18.0 3.3 4.9#  
164 12.0 8.5 12.7

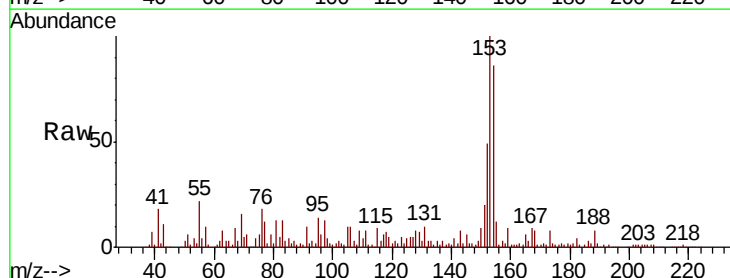


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

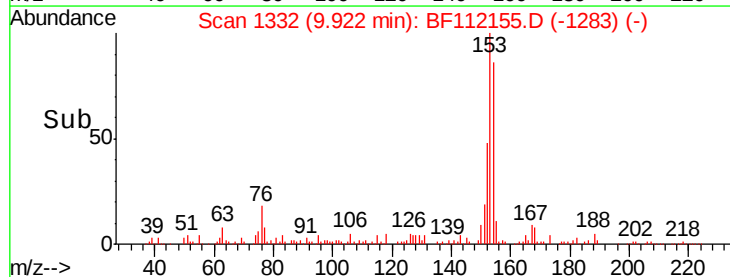
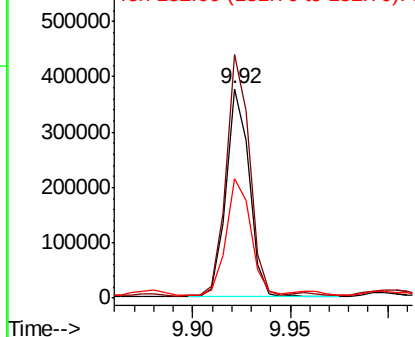


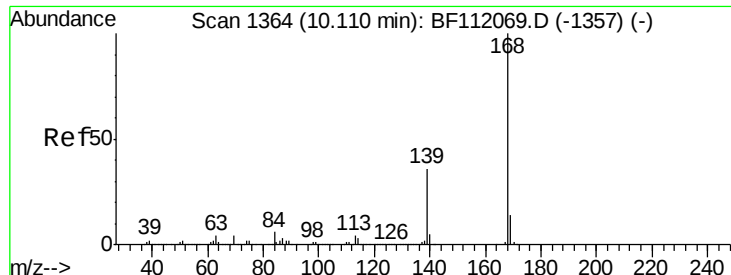
#52  
Acenaphthene  
Concen: 16.308 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

Tgt Ion:154 Resp: 308971  
Ion Ratio Lower Upper  
154 100  
153 116.3 89.8 134.6  
152 57.1 43.5 65.3



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

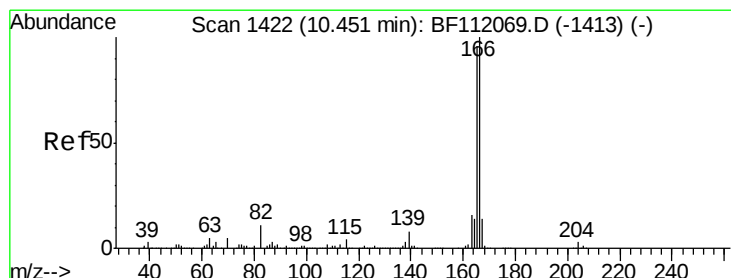
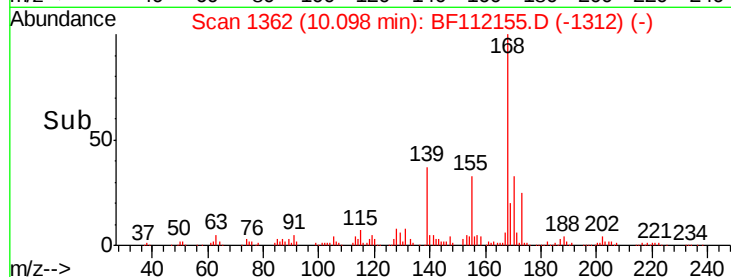
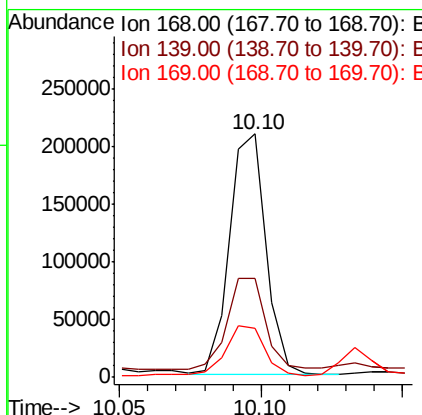
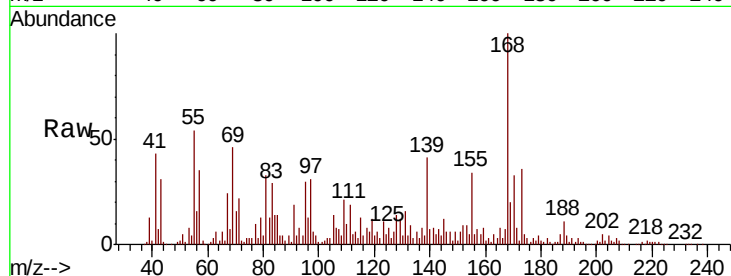




#55  
Dibenzofuran  
Concen: 6.523 ng  
RT: 10.10 min Scan# 1362  
Delta R.T. -0.01 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

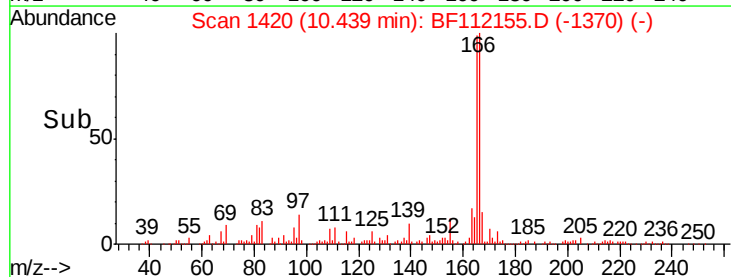
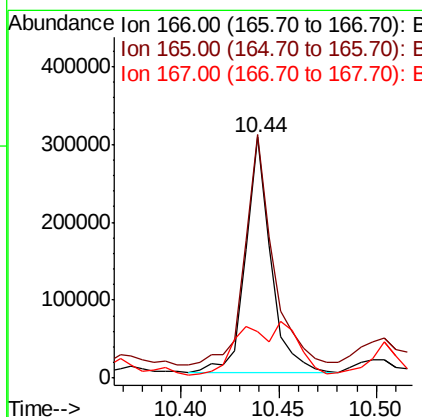
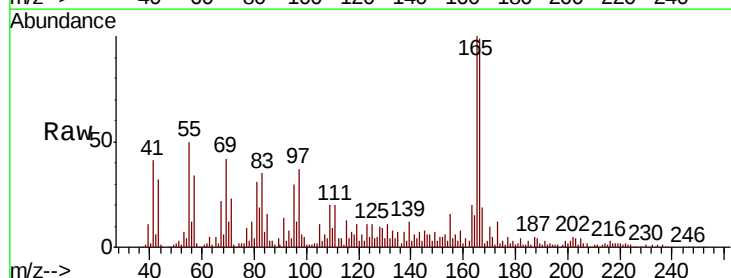
Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-02(15-20)

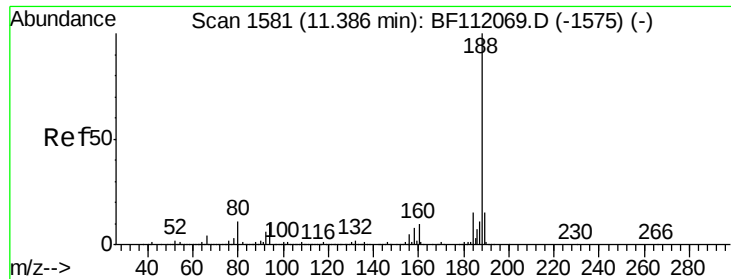
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.6  | 29.2  | 43.8  |
| 169     | 20.2  | 11.4  | 17.0  |



#58  
Fluorene  
Concen: 12.444 ng  
RT: 10.44 min Scan# 1420  
Delta R.T. -0.01 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.2 | 77.1  | 115.7 |
| 167     | 19.2  | 11.3  | 16.9  |

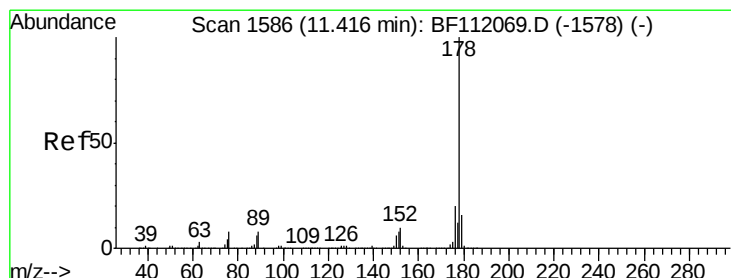
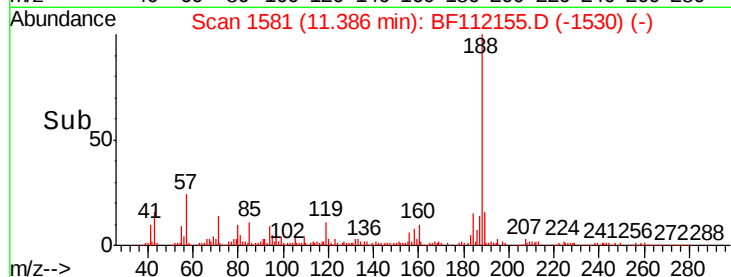
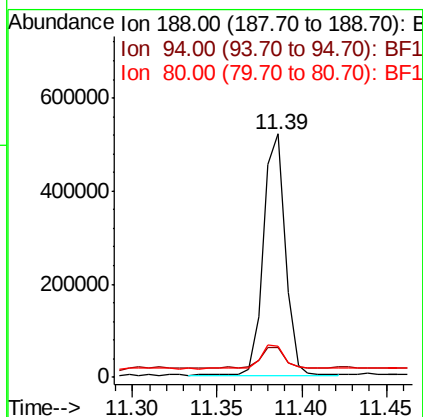
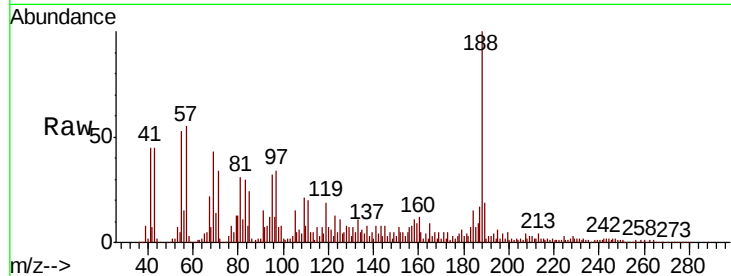




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. 0.00 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

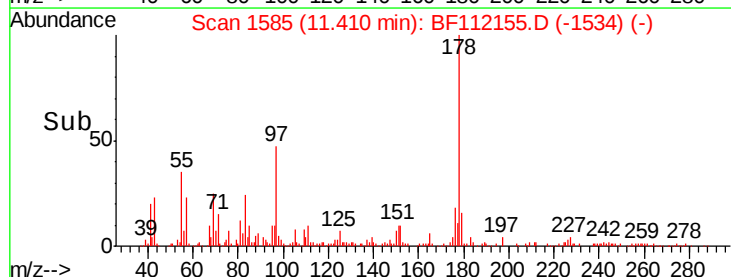
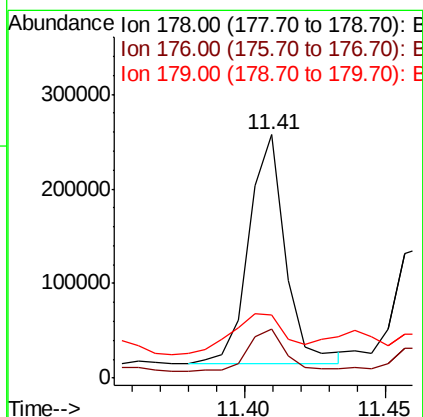
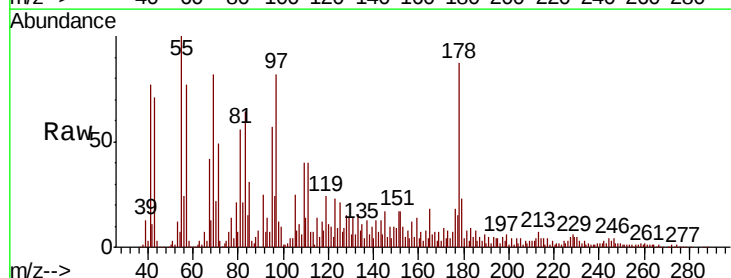
Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-02(15-20)

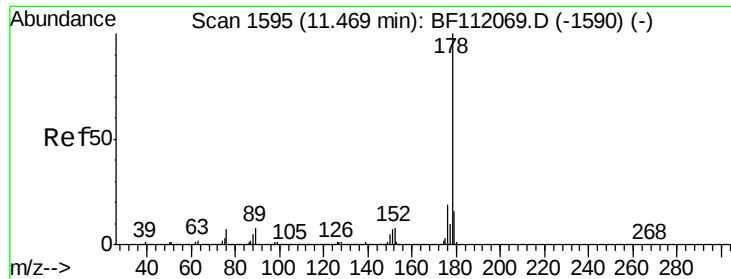
Tot Ion:188 Resp: 468641  
Ion Ratio Lower Upper  
188 100  
94 12.4 8.2 12.2#  
80 12.9 8.9 13.3



#71  
Phenanthrene  
Concen: 9.265 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. 0.00 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

Tgt Ion:178 Resp: 218502  
Ion Ratio Lower Upper  
178 100  
176 20.3 16.3 24.5  
179 26.0 13.0 19.4#





#72

Anthracene

Concen: 5.298 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

Instrument :

BNA\_F

ClientSampleId :

CPSB-02(15-20)

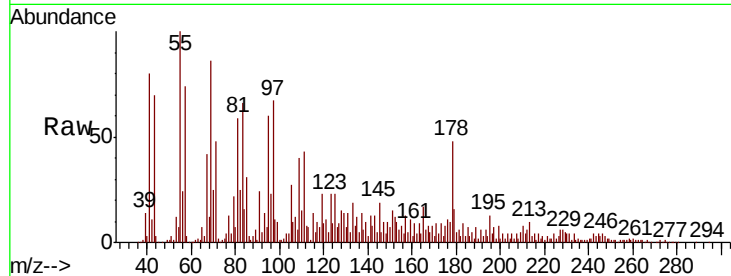
Tot Ion:178 Resp: 126585

Ion Ratio Lower Upper

178 100

176 22.2 15.5 23.3

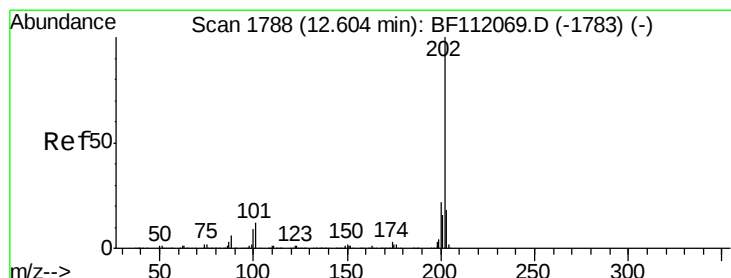
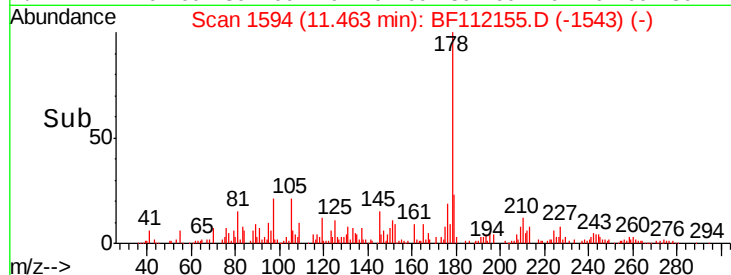
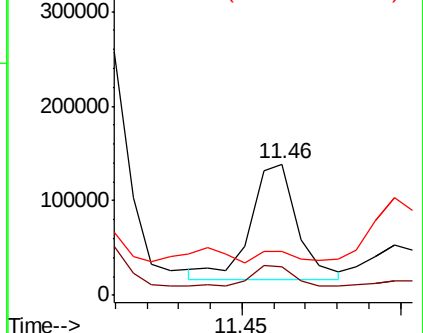
179 33.4 12.8 19.2#



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: 11.688 ng

RT: 12.61 min Scan# 1789

Delta R.T. 0.01 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

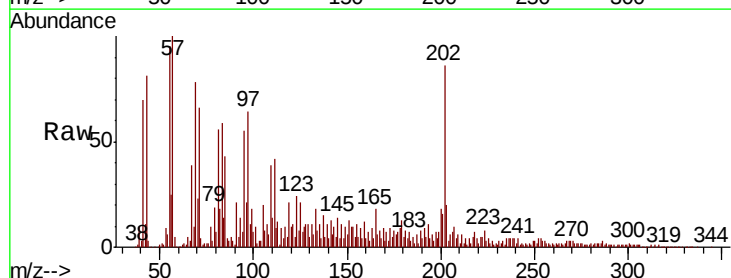
Tgt Ion:202 Resp: 291045

Ion Ratio Lower Upper

202 100

101 11.6 0.0 31.8

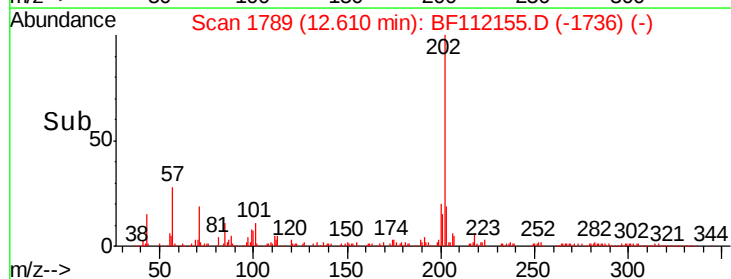
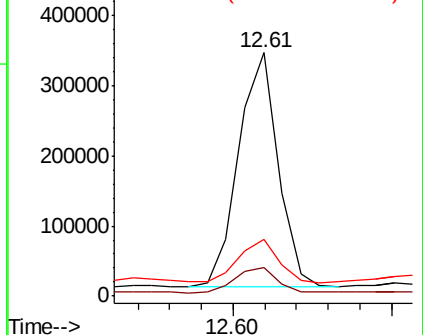
203 23.0 0.0 38.4

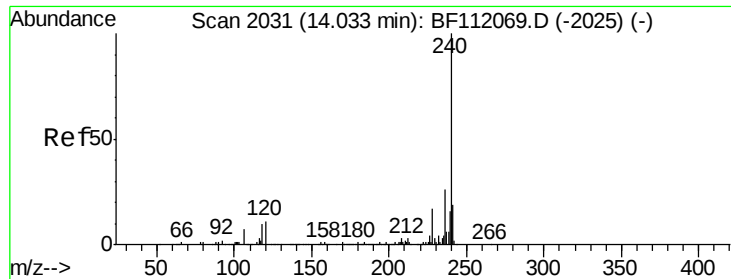


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

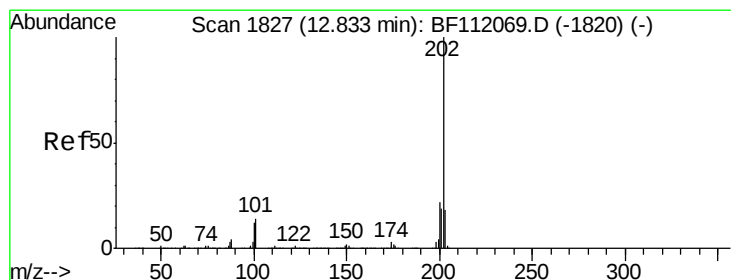
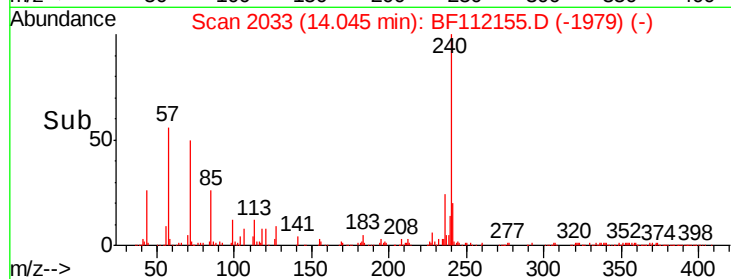
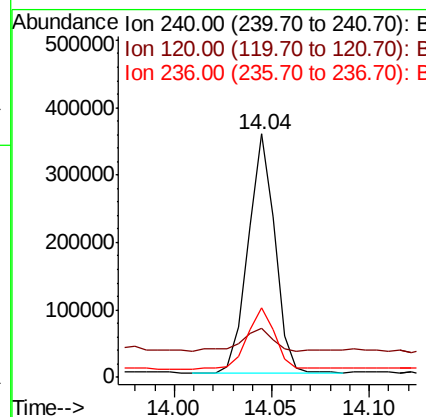
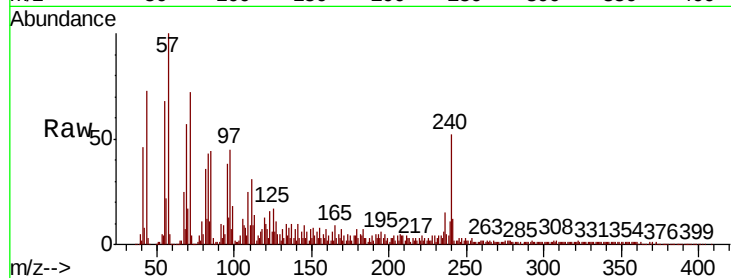




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.04 min Scan# 2033  
Delta R.T. 0.02 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

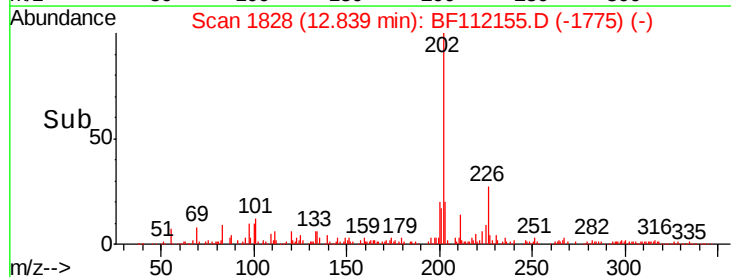
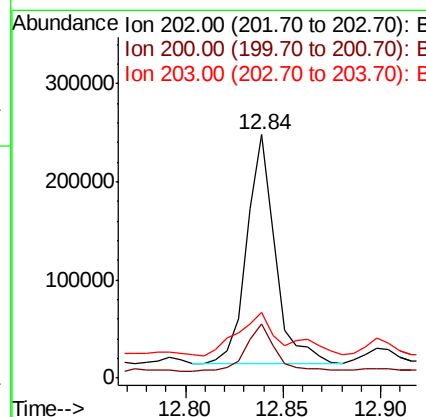
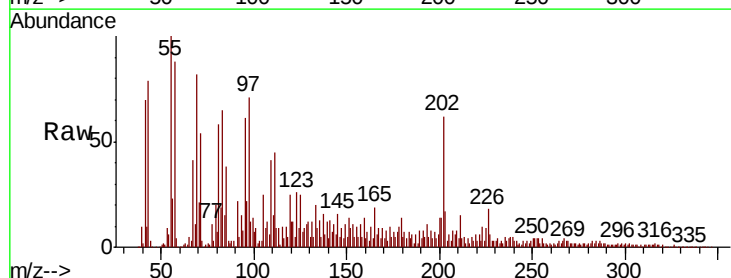
Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-02(15-20)

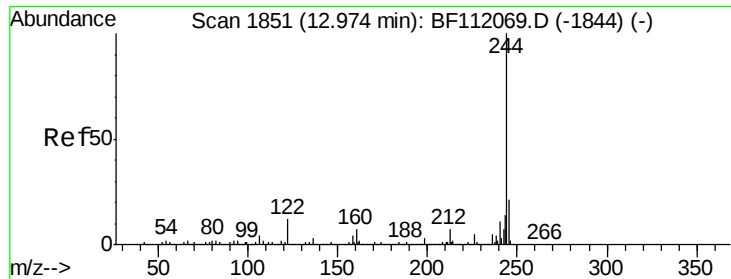
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 19.9  | 9.0   | 13.6# |
| 236     | 28.3  | 20.7  | 31.1  |



#78  
Pyrene  
Concen: 10.602 ng  
RT: 12.84 min Scan# 1828  
Delta R.T. 0.01 min  
Lab File: BF112155.D  
Acq: 21 Jan 2019 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.2  | 17.7  | 26.5  |
| 203     | 27.1  | 14.6  | 22.0# |

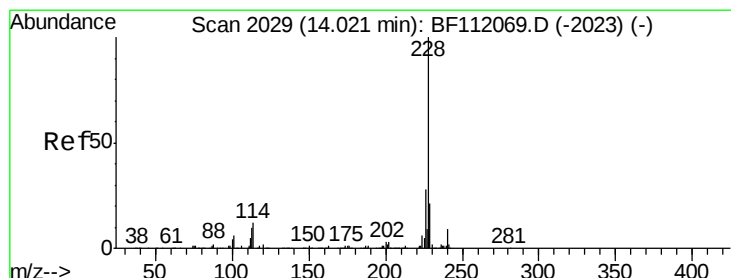
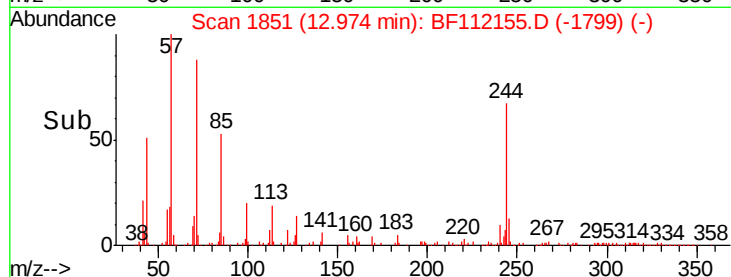
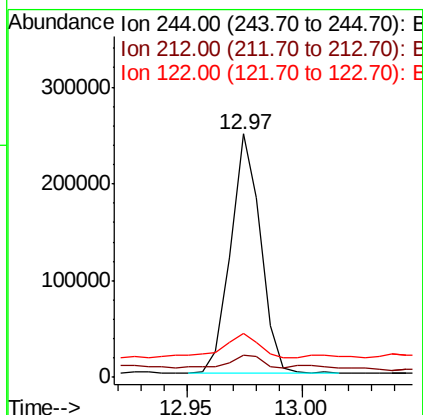
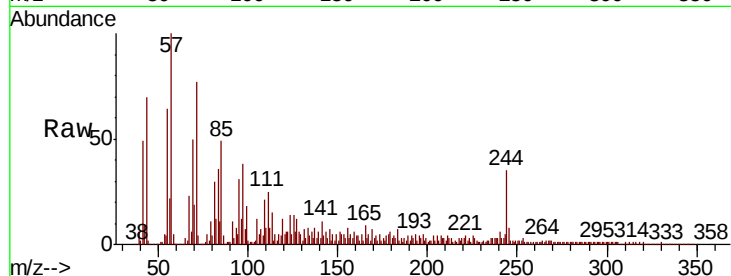




#79  
 Terphenyl-d14  
 Concen: 14.199 ng  
 RT: 12.97 min Scan# 1851  
 Delta R.T. 0.01 min  
 Lab File: BF112155.D  
 Acq: 21 Jan 2019 13:38

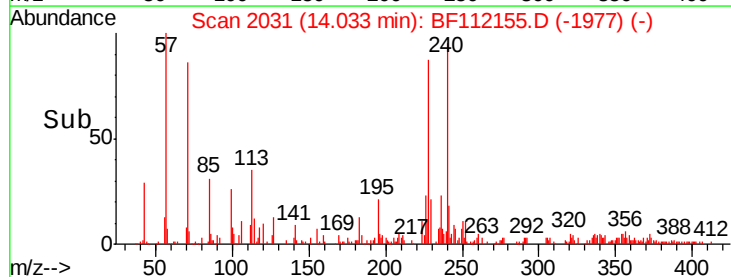
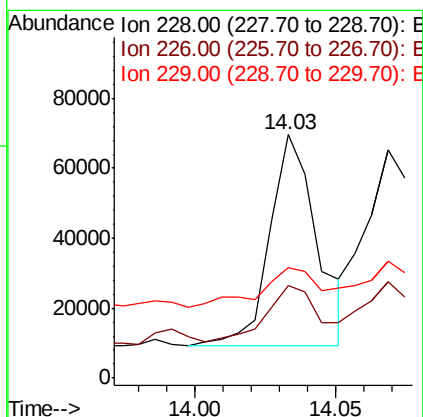
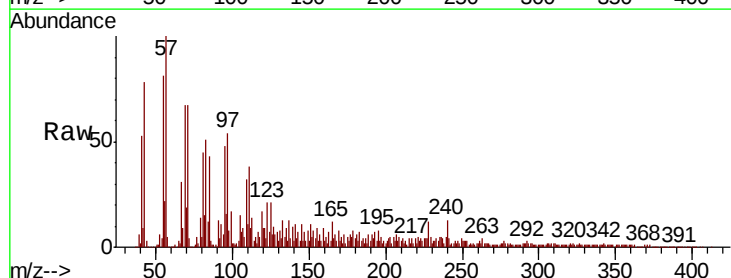
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-02(15-20)

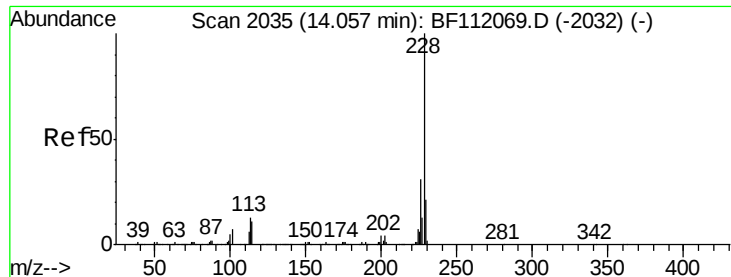
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.9   | 5.9   | 8.9   |
| 122     | 17.9  | 9.8   | 14.6  |



#81  
 Benzo(a)anthracene  
 Concen: 3.655 ng  
 RT: 14.03 min Scan# 2031  
 Delta R.T. 0.02 min  
 Lab File: BF112155.D  
 Acq: 21 Jan 2019 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 37.8  | 22.6  | 34.0  |
| 229     | 45.5  | 16.5  | 24.7  |





#83

Chrysene

Concen: 3.389 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

Instrument :

BNA\_F

ClientSampleId :

CPSB-02(15-20)

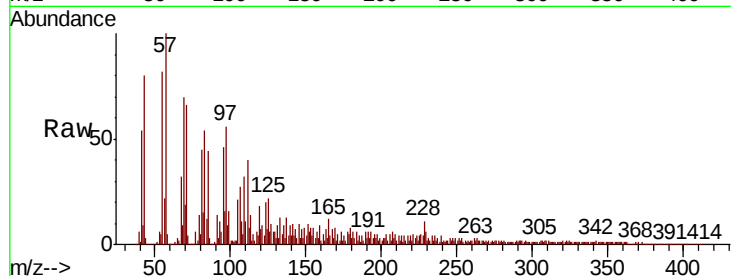
Tot Ion:228 Resp: 61485

Ion Ratio Lower Upper

228 100

226 42.4 25.0 37.6#

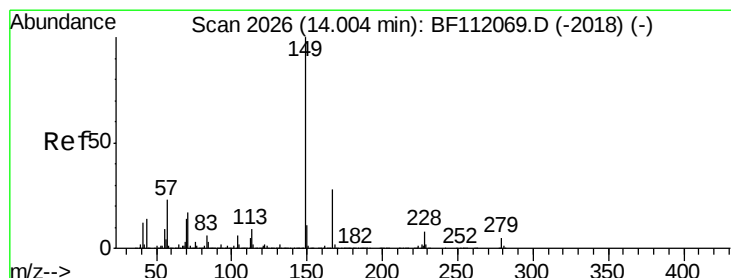
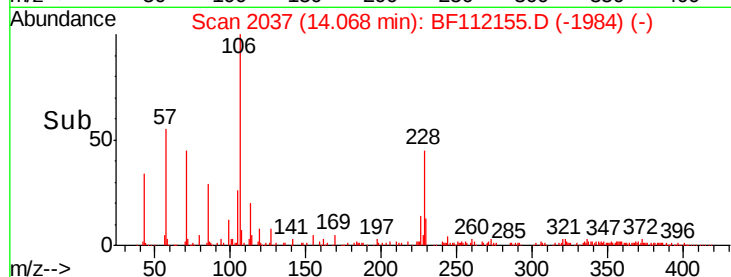
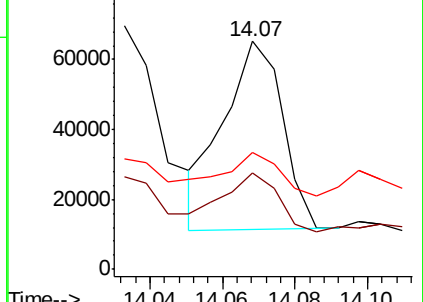
229 51.3 16.6 24.8#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 9.921 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF112155.D

Acq: 21 Jan 2019 13:38

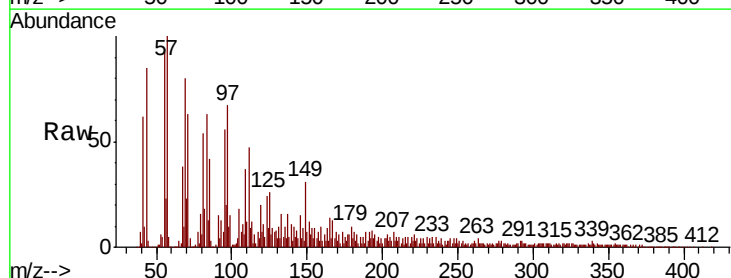
Tgt Ion:149 Resp: 137603

Ion Ratio Lower Upper

149 100

167 42.4 22.5 33.7#

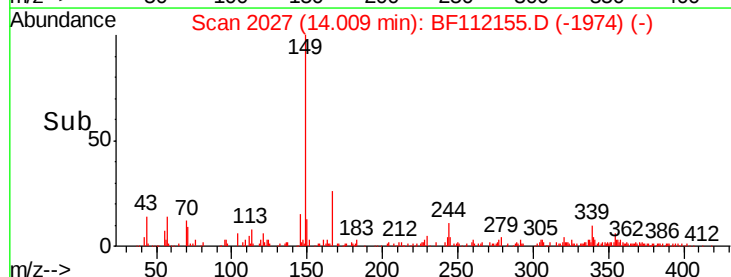
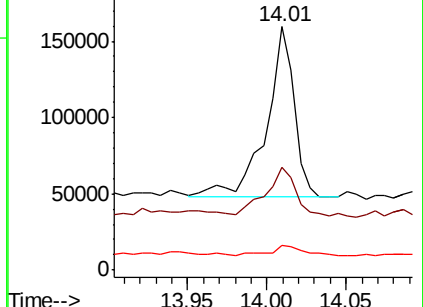
279 9.9 3.8 5.6#

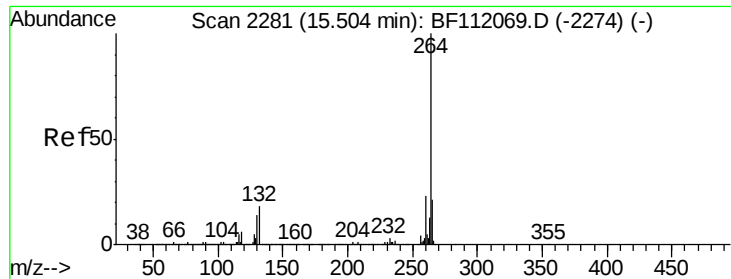


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

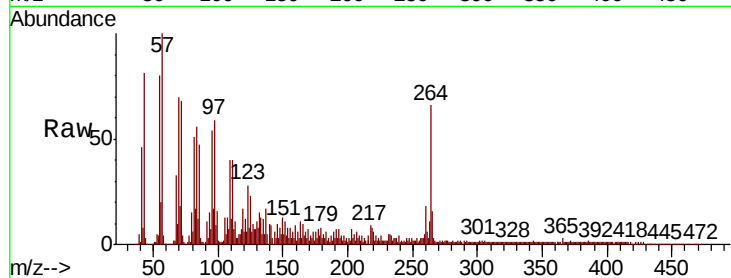




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.54 min Scan# 2287  
 Delta R.T. 0.04 min  
 Lab File: BF112155.D  
 Acq: 21 Jan 2019 13:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-02(15-20)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.6  | 18.2  | 27.2  |
| 265     | 23.6  | 17.0  | 25.4  |



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

