

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\  
 Data File : BF114680.D  
 Acq On : 31 May 2019 00:20  
 Operator : HP/JU  
 Sample : K3065-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 31 05:48:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 19:08:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 431318   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.97  | 136  | 1554840  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.72  | 164  | 699634   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.19 | 188  | 1196566  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.82 | 240  | 839403   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.20 | 264  | 676819   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.31  | 112 | 2882761 | 117.34 | ng | 0.02 |
| 7) Phenol-d6                | 6.34  | 99  | 3472811 | 117.31 | ng | 0.01 |
| 23) Nitrobenzene-d5         | 7.26  | 82  | 2166314 | 86.92  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 10.50 | 330 | 735961  | 110.40 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 9.05  | 172 | 3099883 | 82.82  | ng | 0.00 |
| 79) Terphenyl-d14           | 12.78 | 244 | 2805214 | 62.83  | ng | 0.00 |

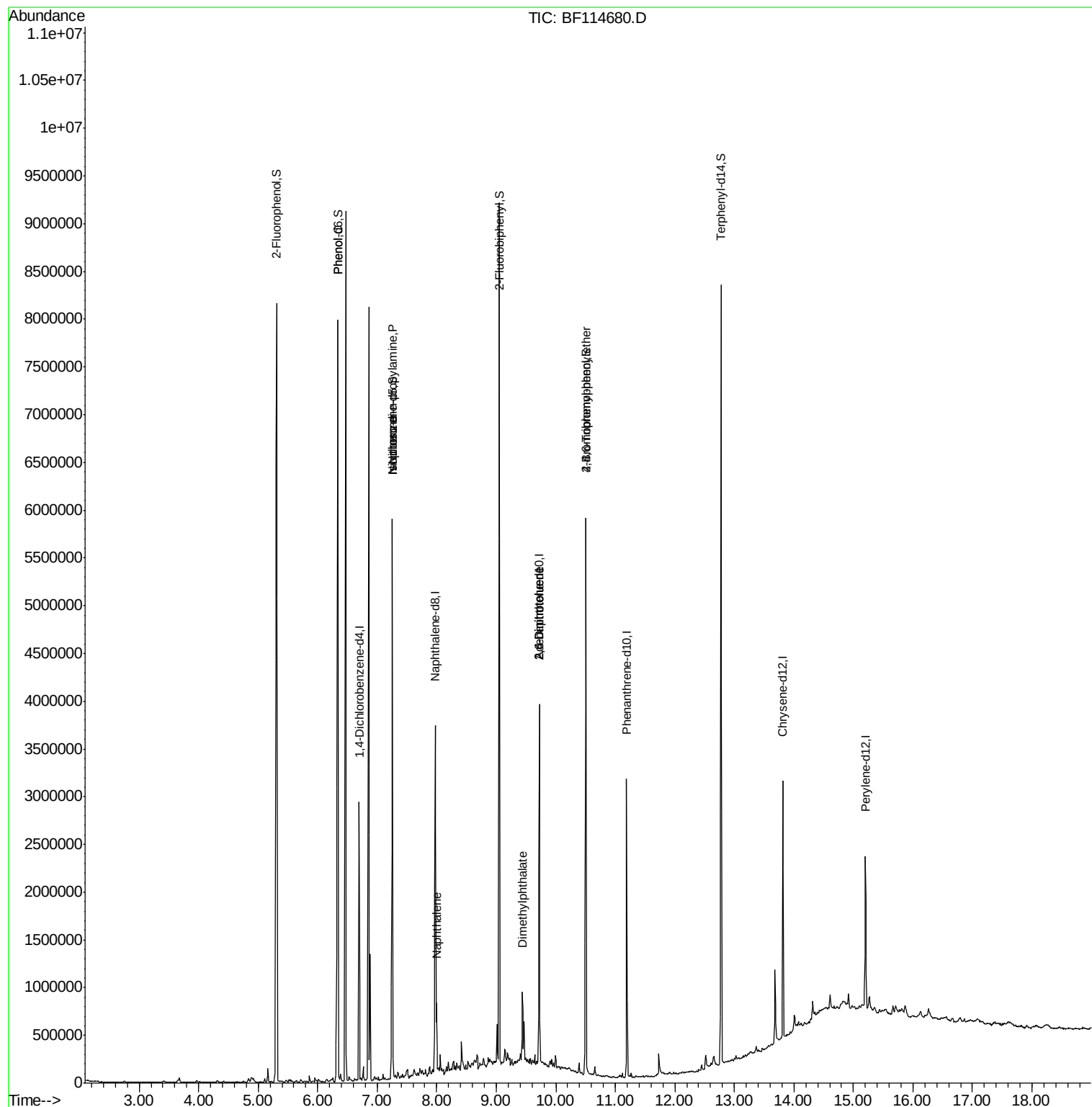
|                                |       |     |         |           |    |    |
|--------------------------------|-------|-----|---------|-----------|----|----|
| Target Compounds               |       |     |         | Qvalue    |    |    |
| 9) Benzaldehyde                | 6.34  | 77  | 7639    | Below Cal | #  | 1  |
| 10) Phenol                     | 6.35  | 94  | 105871  | 2.960     | ng | 84 |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70  | 301375  | 14.749    | ng | 75 |
| 25) Isophorone                 | 7.26  | 82  | 2137196 | 42.731    | ng | 63 |
| 31) Naphthalene                | 8.00  | 128 | 298910  | 4.174     | ng | 96 |
| 50) Dimethylphthalate          | 9.44  | 163 | 252084  | 5.171     | ng | 99 |
| 51) 2,6-Dinitrotoluene         | 9.72  | 165 | 93052   | 8.214     | ng | 31 |
| 57) 2,4-Dinitrotoluene         | 9.72  | 165 | 93052   | 6.400     | ng | 24 |
| 58) Fluorene                   | 10.26 | 166 | 3693    | Below Cal | #  | 89 |
| 61) 4-Chlorophenyl-phenylether | 10.22 | 204 | 143     | Below Cal | #  | 1  |
| 67) 4-Bromophenyl-phenylether  | 10.50 | 248 | 47491   | 3.701     | ng | 1  |
| 74) Di-n-butylphthalate        | 11.77 | 149 | 5150    | Below Cal | #  | 87 |

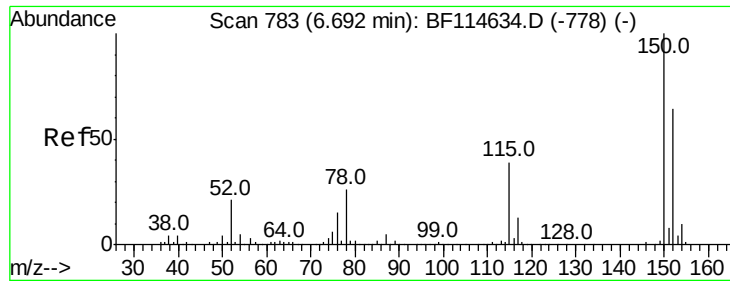
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\  
Data File : BF114680.D  
Acq On : 31 May 2019 00:20  
Operator : HP/JU  
Sample : K3065-10  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: May 31 05:48:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 19:08:51 2019  
Response via : Initial Calibration



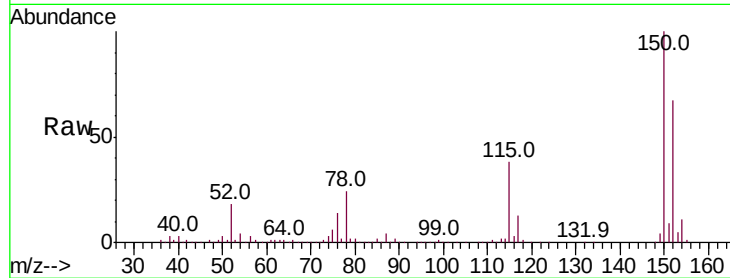


#1

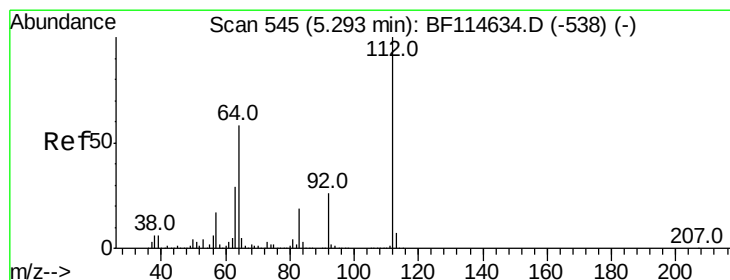
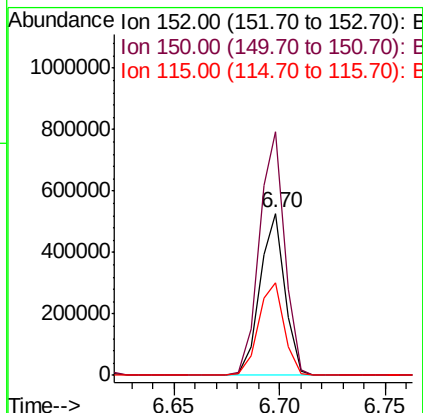
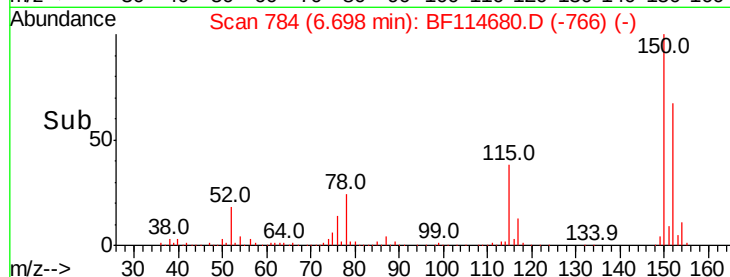
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 784  
Delta R.T. 0.01 min  
Lab File: BF114680.D  
Acq: 31 May 2019 00:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 431318  
Ion Ratio Lower Upper  
152 100  
150 150.3 124.4 186.6  
115 56.8 48.7 73.1



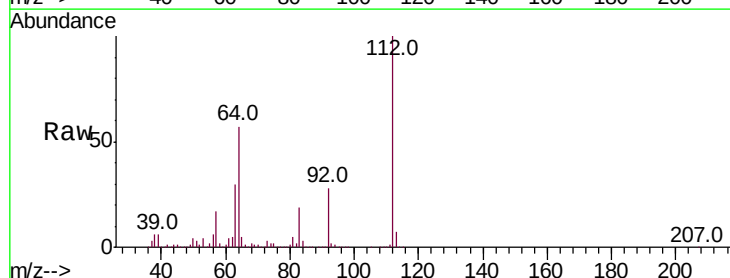
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



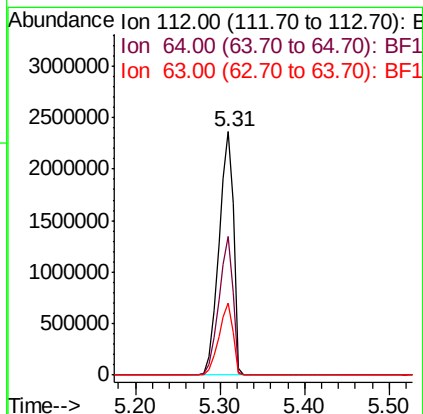
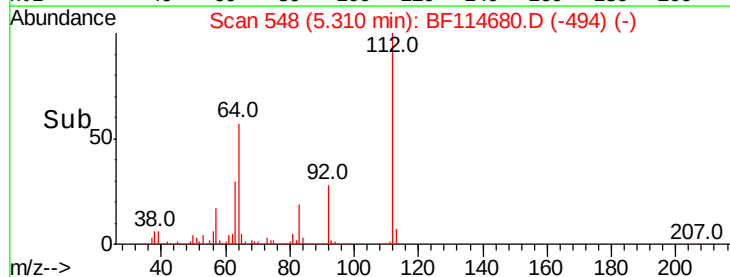
#5

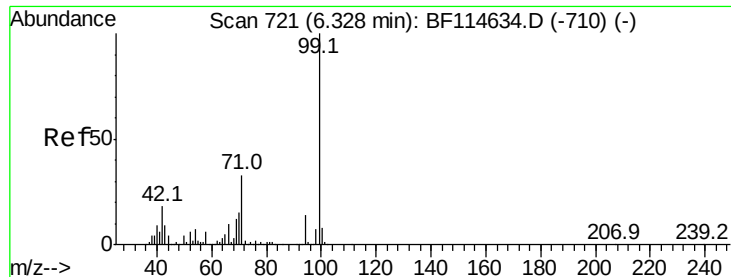
2-Fluorophenol  
Concen: 117.345 ng  
RT: 5.31 min Scan# 548  
Delta R.T. 0.02 min  
Lab File: BF114680.D  
Acq: 31 May 2019 00:20

Tgt Ion:112 Resp: 2882761  
Ion Ratio Lower Upper  
112 100  
64 57.2 46.1 69.1  
63 29.8 23.4 35.2



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: 117.310 ng

RT: 6.34 min Scan# 723

Delta R.T. 0.01 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

Instrument :

BNA\_F

ClientSampleId :

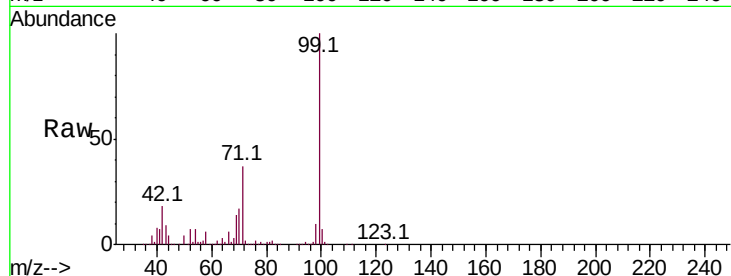
Tot Ion: 99 Resp: 3472811

Ion Ratio Lower Upper

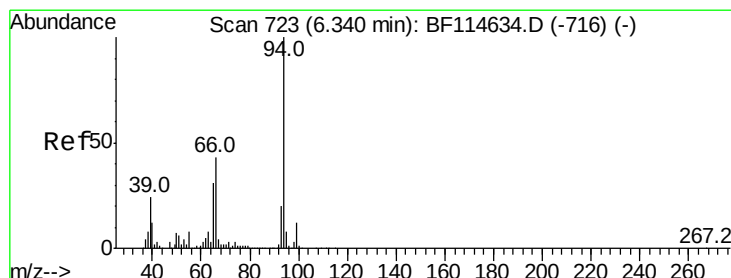
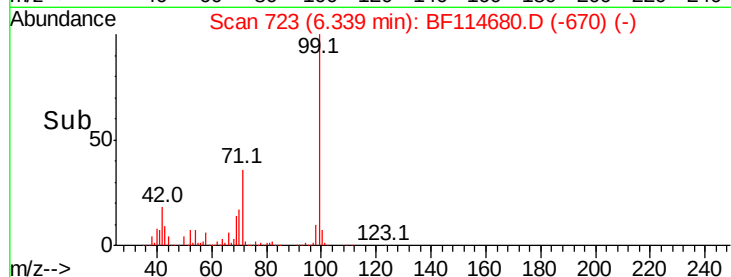
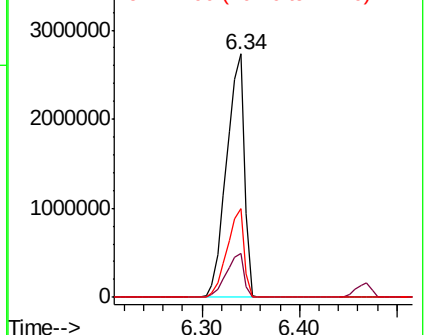
99 100

42 18.3 14.7 22.1

71 36.5 26.6 40.0



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: 2.960 ng

RT: 6.35 min Scan# 724

Delta R.T. 0.01 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

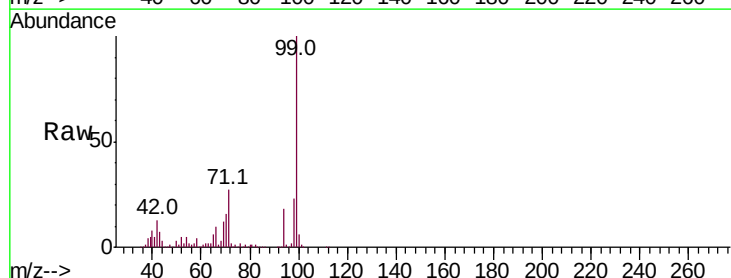
Tgt Ion: 94 Resp: 105871

Ion Ratio Lower Upper

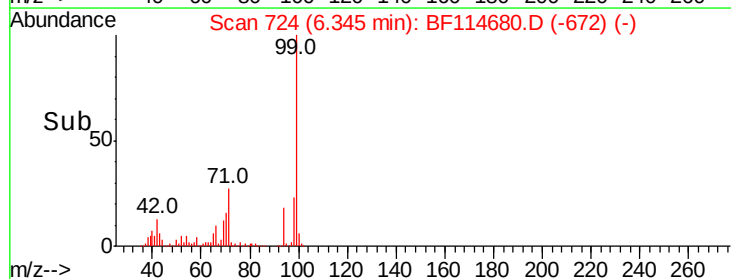
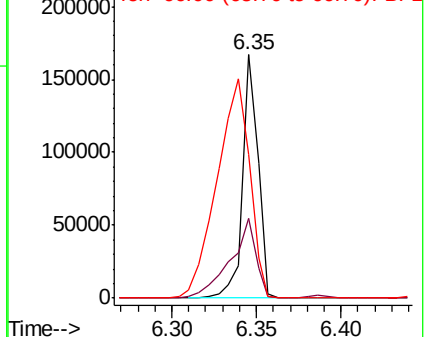
94 100

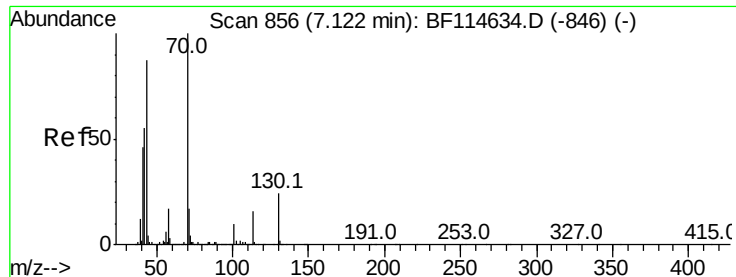
65 32.9 11.0 51.0

66 58.8 23.0 63.0



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

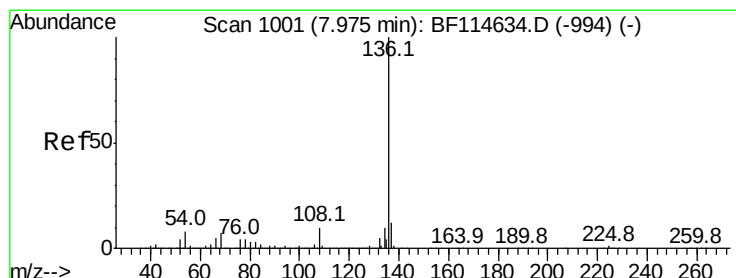
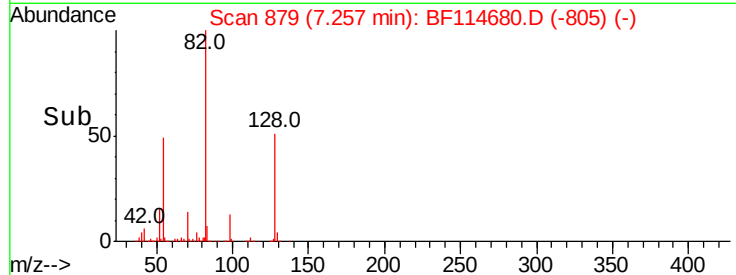
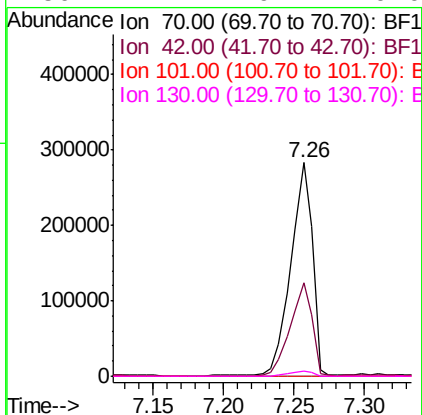
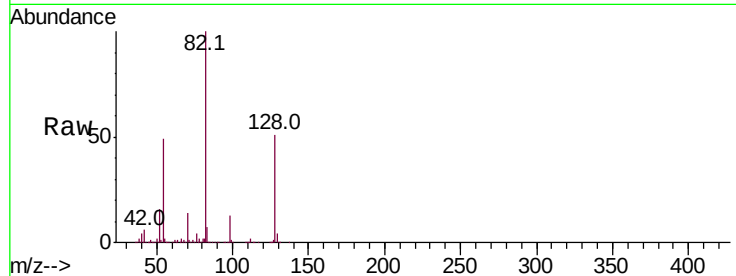




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.749 ng  
RT: 7.26 min Scan# 879  
Delta R.T. 0.14 min  
Lab File: BF114680.D  
Acq: 31 May 2019 00:20

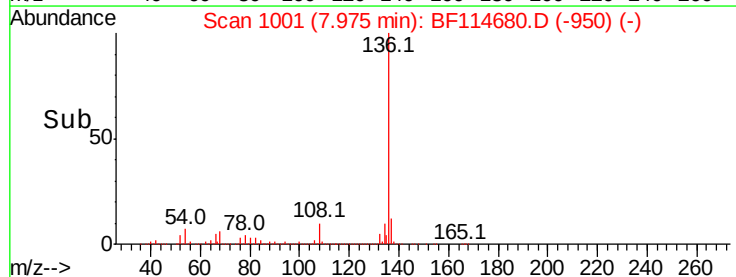
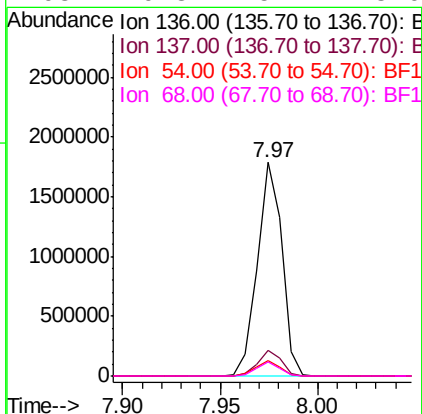
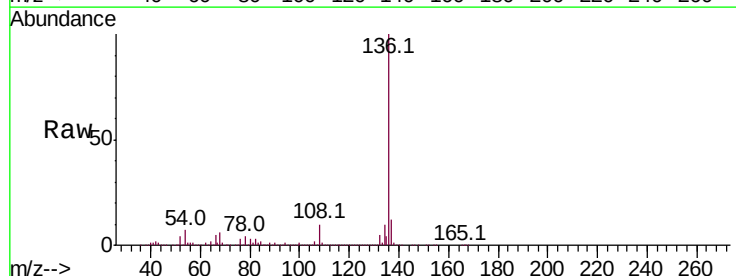
Instrument :  
BNA\_F  
ClientSampleId :

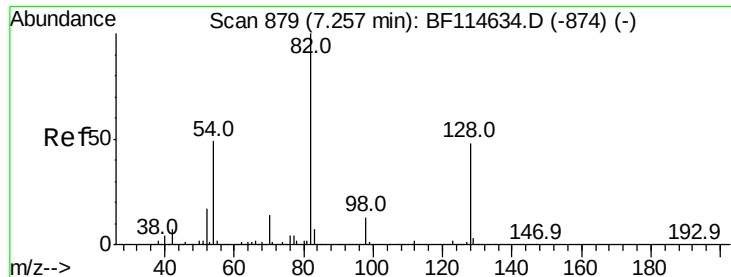
Tot Ion: 70 Resp: 301375  
Ion Ratio Lower Upper  
70 100  
42 43.8 44.4 66.6#  
101 0.0 8.2 12.4#  
130 2.4 19.4 29.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. -0.00 min  
Lab File: BF114680.D  
Acq: 31 May 2019 00:20

Tgt Ion: 136 Resp: 1554840  
Ion Ratio Lower Upper  
136 100  
137 11.8 9.3 13.9  
54 7.5 6.3 9.5  
68 6.3 5.4 8.0





#23

Nitrobenzene-d5

Concen: 86.925 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.00 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

Instrument :

BNA\_F

ClientSampleId :

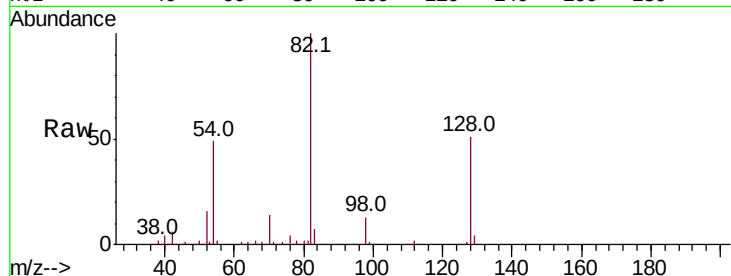
Tot Ion: 82 Resp: 2166314

Ion Ratio Lower Upper

82 100

128 50.6 38.5 57.7

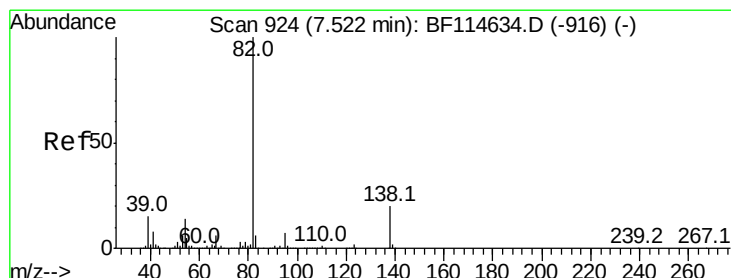
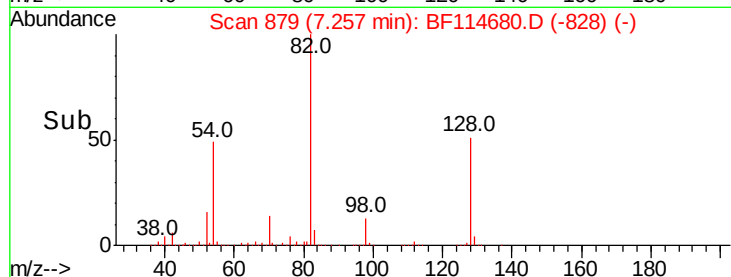
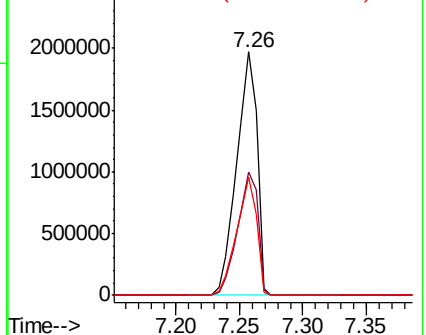
54 48.6 39.1 58.7



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: 42.731 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.26 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

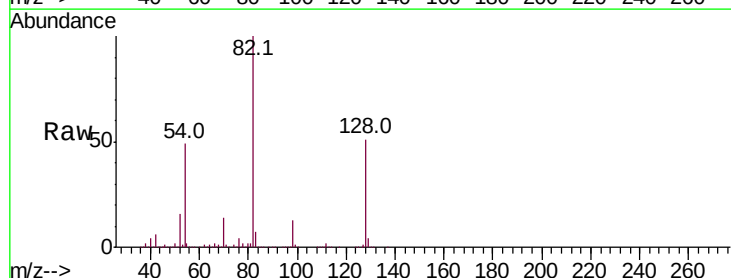
Tgt Ion: 82 Resp: 2137196

Ion Ratio Lower Upper

82 100

95 0.1 5.6 8.4#

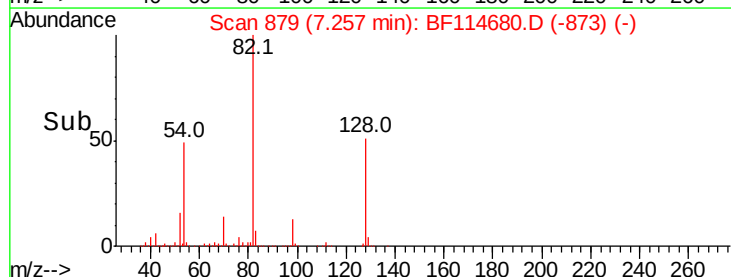
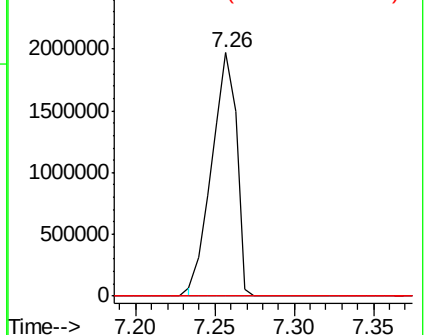
138 0.0 15.9 23.9#

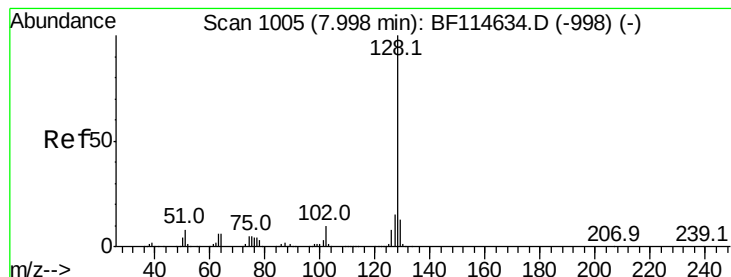


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 4.174 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

Instrument :

BNA\_F

ClientSampleId :

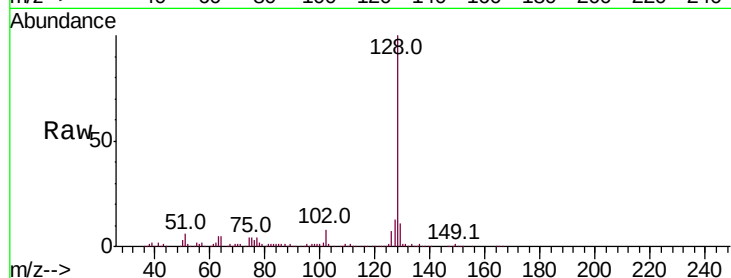
Tot Ion:128 Resp: 298910

Ion Ratio Lower Upper

128 100

129 11.1 10.2 15.2

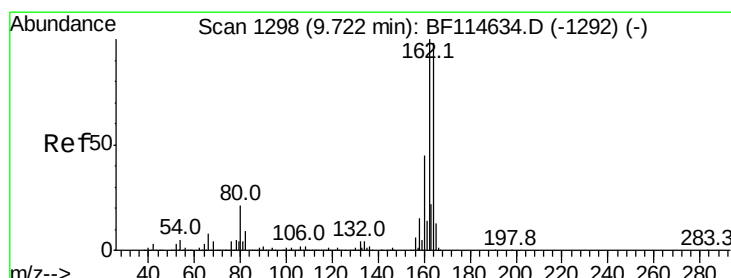
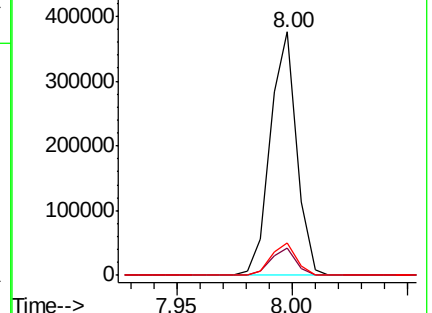
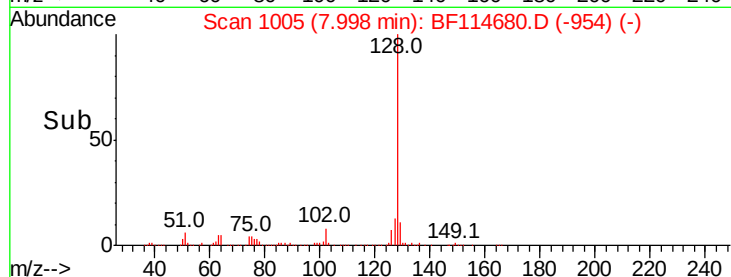
127 13.2 11.9 17.9



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.72 min Scan# 1298

Delta R.T. -0.00 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

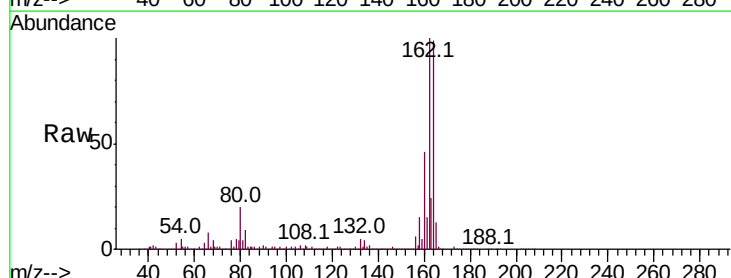
Tgt Ion:164 Resp: 699634

Ion Ratio Lower Upper

164 100

162 100.9 81.4 122.2

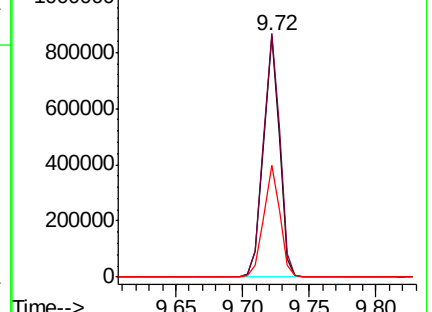
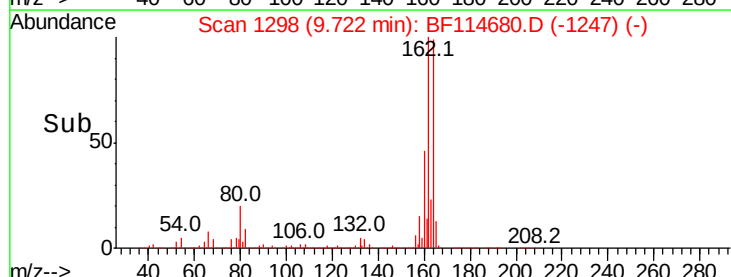
160 46.1 36.6 54.8

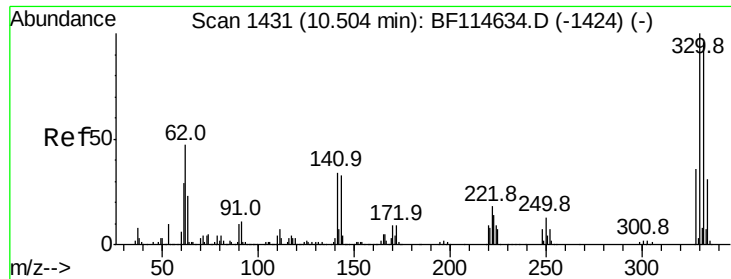


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

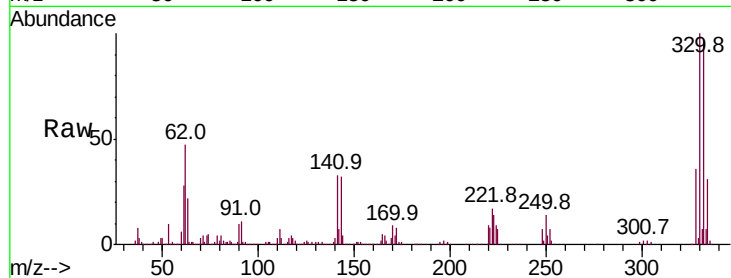




#42  
 2,4,6-Tribromophenol  
 Concen: 110.398 ng  
 RT: 10.50 min Scan# 1431  
 Delta R.T. -0.00 min  
 Lab File: BF114680.D  
 Acq: 31 May 2019 00:20

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.4  | 75.8  | 113.8 |
| 141     | 32.7  | 27.8  | 41.8  |

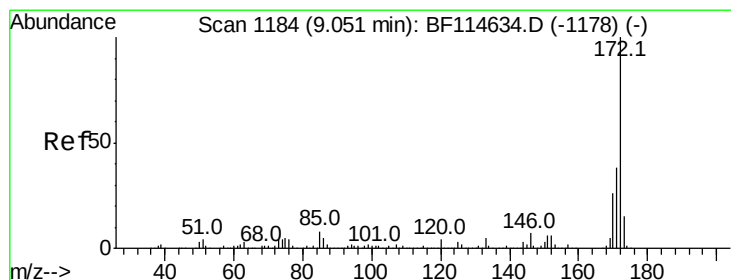
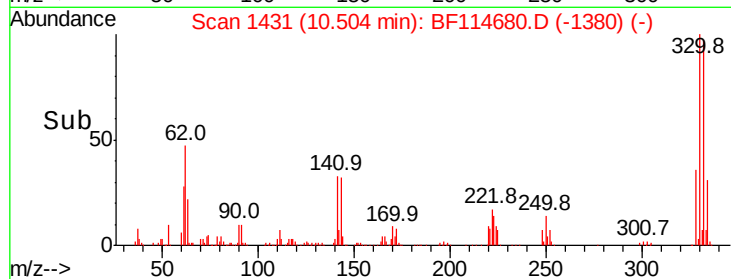
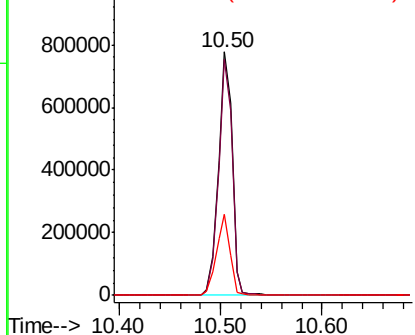


Abundance

Ion 329.80 (329.50 to 330.50): E

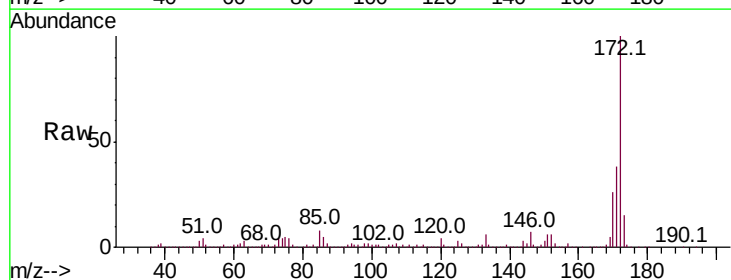
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 82.820 ng  
 RT: 9.05 min Scan# 1184  
 Delta R.T. -0.00 min  
 Lab File: BF114680.D  
 Acq: 31 May 2019 00:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.4  | 30.6  | 45.8  |
| 170     | 26.4  | 20.7  | 31.1  |

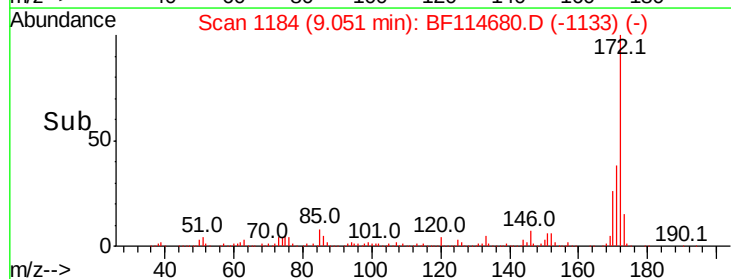
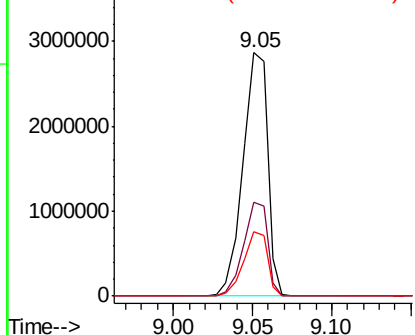


Abundance

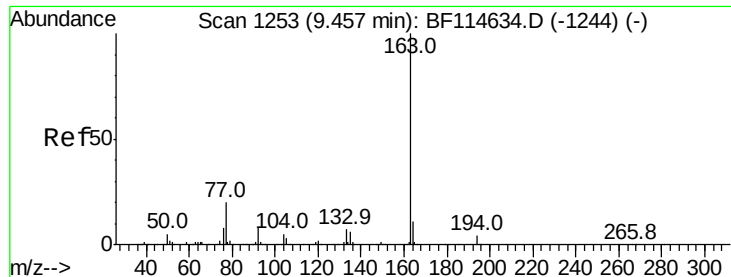
Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E







#50

Dimethylphthalate

Concen: 5.171 ng

RT: 9.44 min Scan# 1250

Delta R.T. -0.02 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

Instrument :

BNA\_F

ClientSampleId :

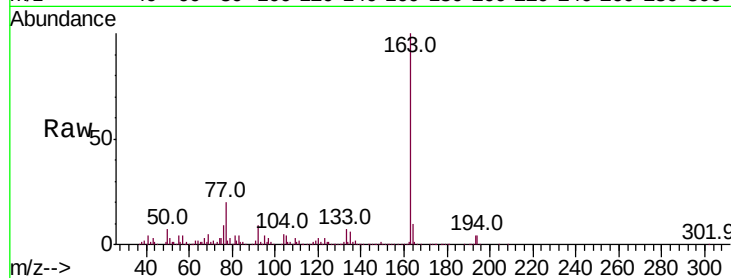
Tot Ion:163 Resp: 252084

Ion Ratio Lower Upper

163 100

194 4.3 3.4 5.0

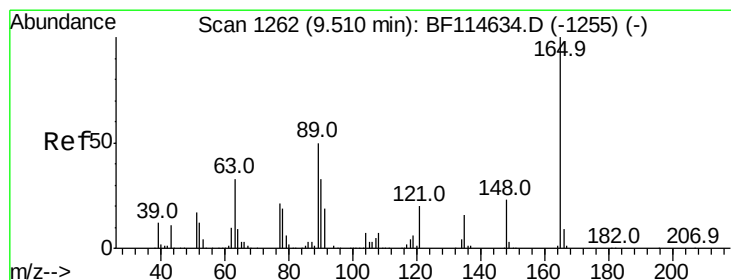
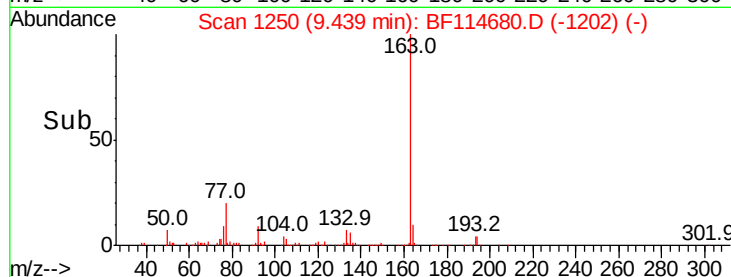
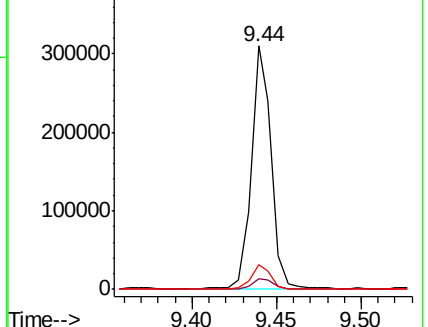
164 10.1 8.6 13.0



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: 8.214 ng

RT: 9.72 min Scan# 1298

Delta R.T. 0.21 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

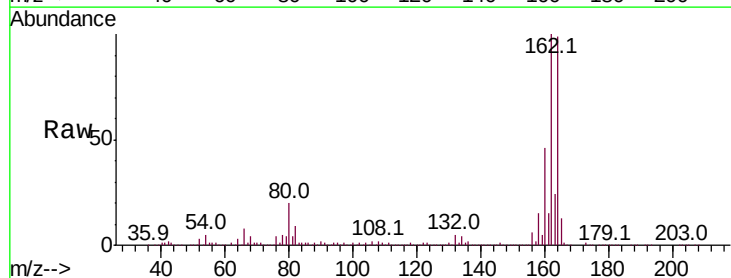
Tgt Ion:165 Resp: 93052

Ion Ratio Lower Upper

165 100

63 1.2 36.6 54.8#

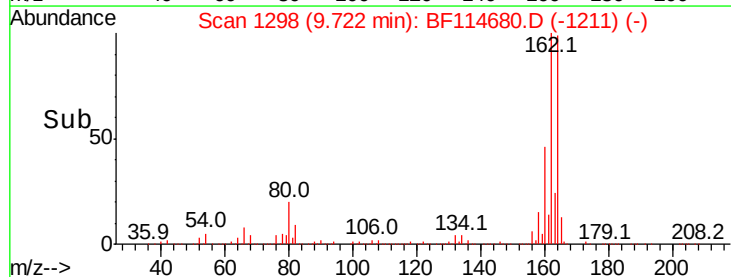
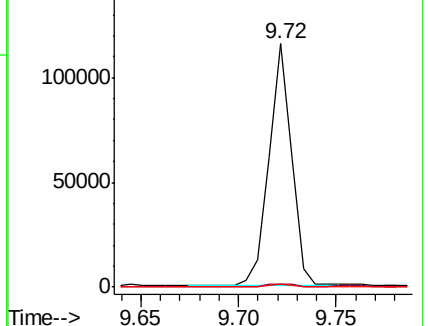
89 1.3 40.2 60.4#

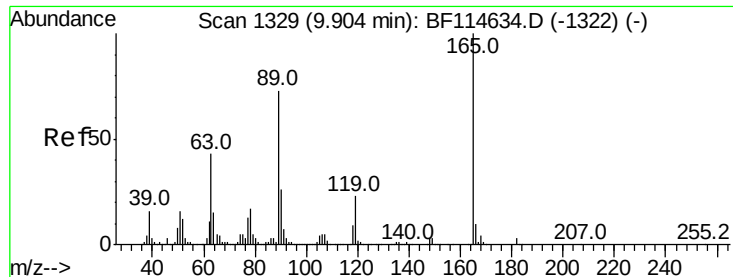


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

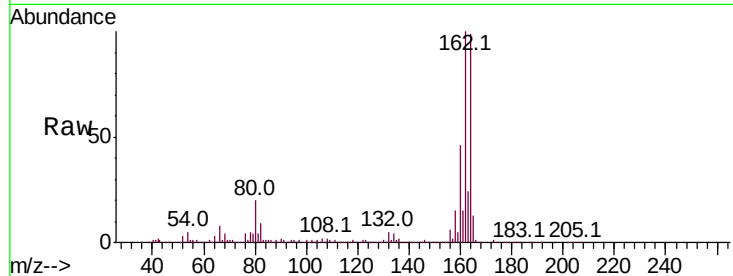




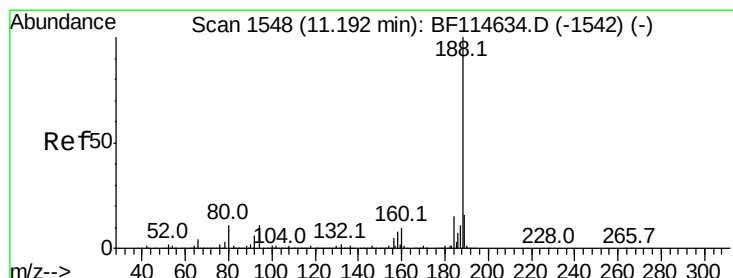
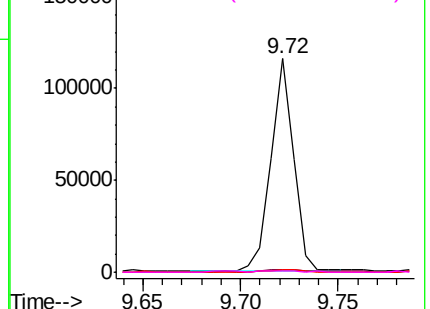
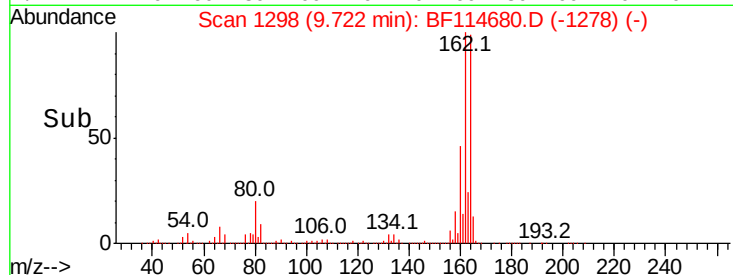
#57  
 2,4-Dinitrotoluene  
 Concen: 6.400 ng  
 RT: 9.72 min Scan# 1298  
 Delta R.T. -0.18 min  
 Lab File: BF114680.D  
 Acq: 31 May 2019 00:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 93052  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 34.8 52.2#  
 89 1.3 58.5 87.7#  
 182 0.7 2.2 3.2#

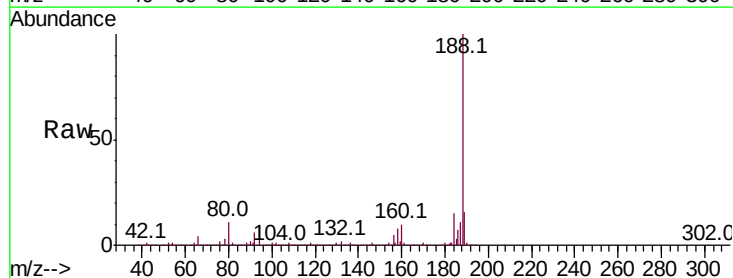


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

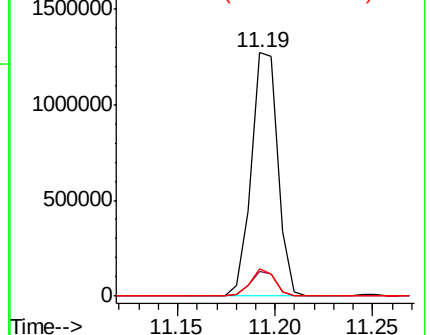
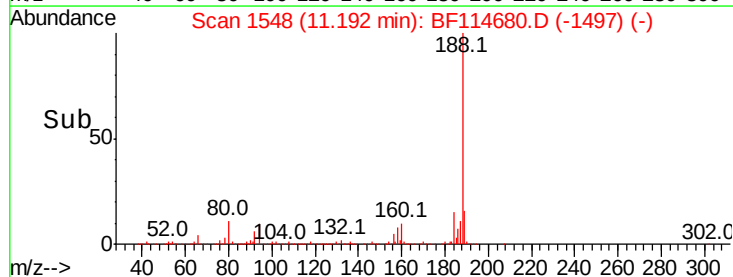


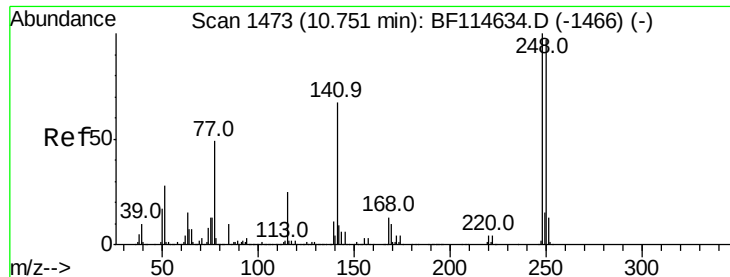
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.19 min Scan# 1548  
 Delta R.T. -0.00 min  
 Lab File: BF114680.D  
 Acq: 31 May 2019 00:20

Tgt Ion:188 Resp: 1196566  
 Ion Ratio Lower Upper  
 188 100  
 94 10.2 8.6 13.0  
 80 11.0 9.0 13.6



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

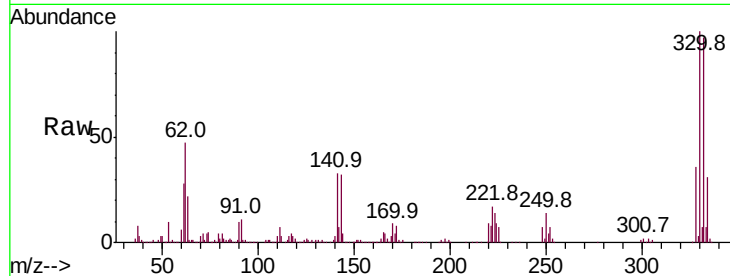




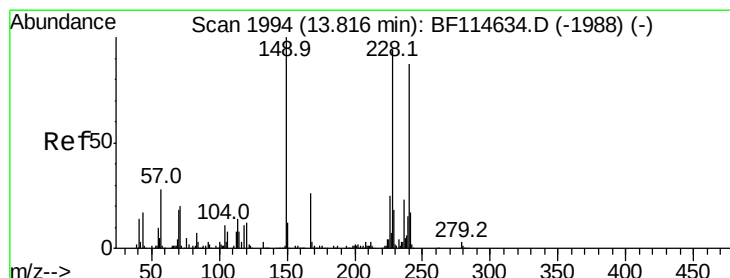
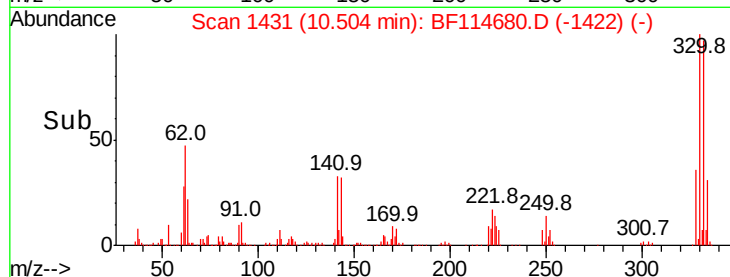
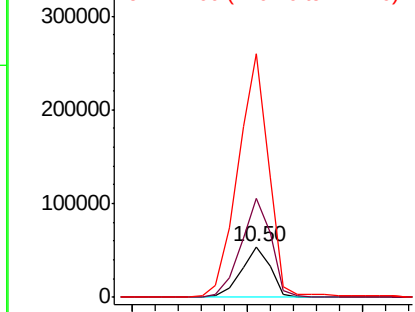
#67  
4-Bromophenyl-phenylether  
Concen: 3.701 ng  
RT: 10.50 min Scan# 1431  
Delta R.T. -0.25 min  
Lab File: BF114680.D  
Acq: 31 May 2019 00:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 47491  
Ion Ratio Lower Upper  
248 100  
250 197.7 78.0 117.0#  
141 483.8 53.8 80.8#

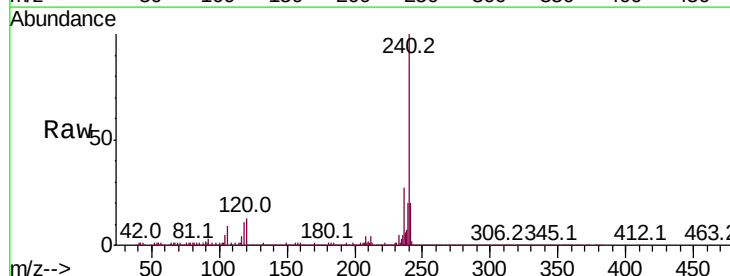


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

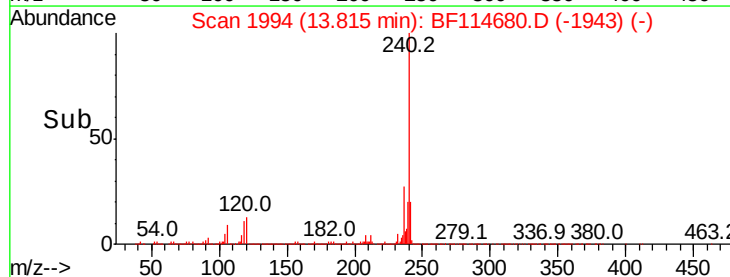
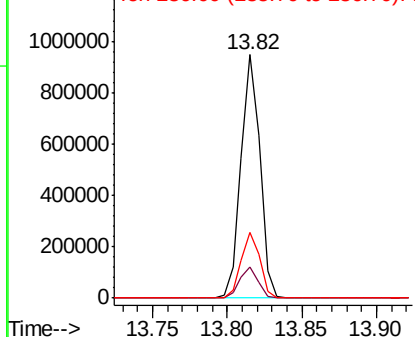


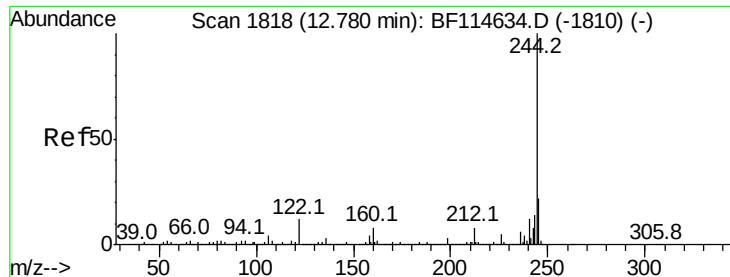
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.82 min Scan# 1994  
Delta R.T. -0.00 min  
Lab File: BF114680.D  
Acq: 31 May 2019 00:20

Tgt Ion:240 Resp: 839403  
Ion Ratio Lower Upper  
240 100  
120 12.8 11.2 16.8  
236 26.8 21.2 31.8



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





#79

Terphenyl-d14

Concen: 62.833 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

Instrument :

BNA\_F

ClientSampleId :

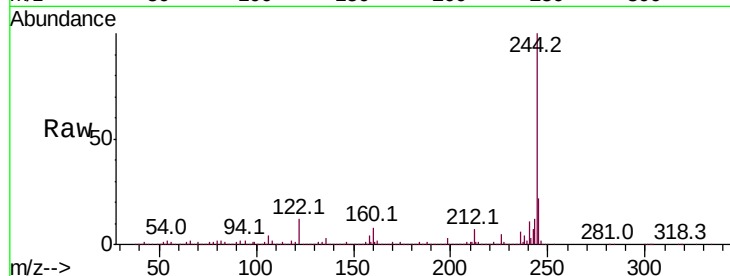
Tot Ion:244 Resp: 2805214

Ion Ratio Lower Upper

244 100

212 7.3 6.1 9.1

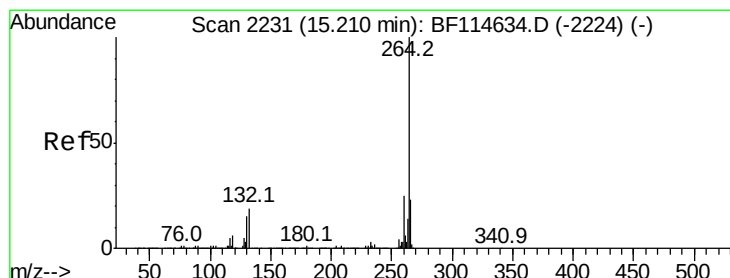
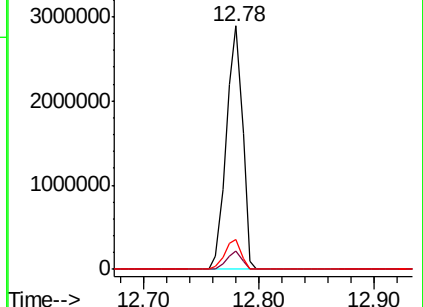
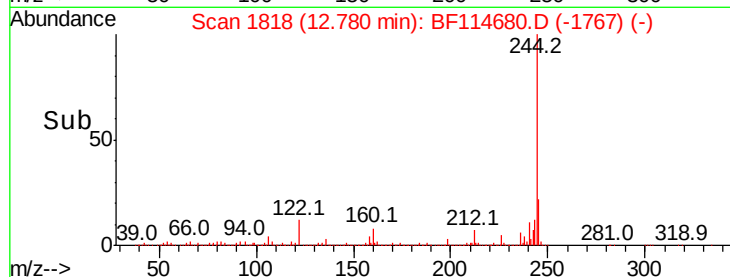
122 12.3 9.8 14.8



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

Perylene-d12

Concen: 20.000 ng

RT: 15.20 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BF114680.D

Acq: 31 May 2019 00:20

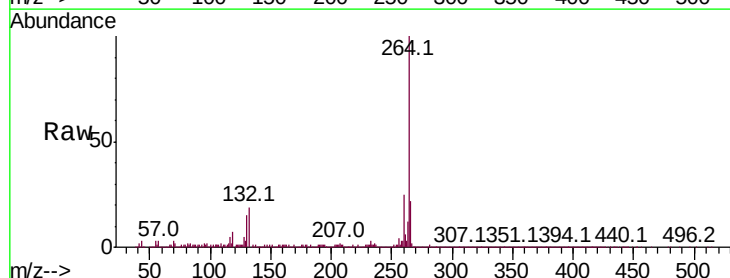
Tgt Ion:264 Resp: 676819

Ion Ratio Lower Upper

264 100

260 24.8 19.7 29.5

265 21.9 18.1 27.1



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

