

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\  
 Data File : BF116704.D  
 Acq On : 31 Aug 2019 17:28  
 Operator : HP/JU  
 Sample : K4619-24  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP8-COMP

Quant Time: Sep 01 00:43:44 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

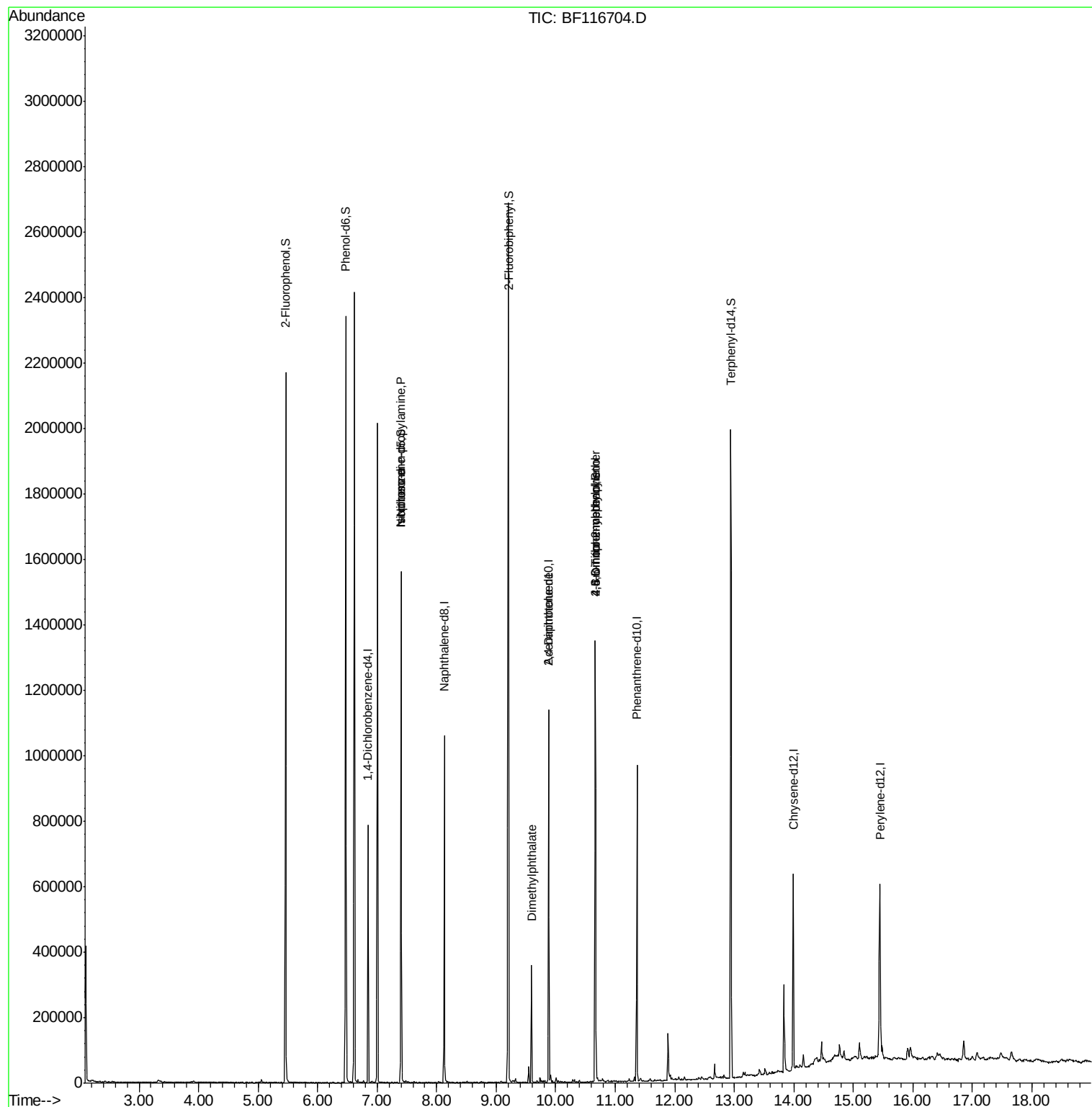
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 105509   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 417561   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.88  | 164  | 205077   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.36 | 188  | 322158   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.99 | 240  | 192546   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.44 | 264  | 235805   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 579043   | 88.91  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 784725   | 91.76  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 479832   | 65.60  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 130480   | 95.17  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 784138   | 64.50  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.94 | 244  | 619660   | 59.54  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 63743    | 11.320 | ng    | # 71     |
| 25) Isophorone                 | 7.40  | 82   | 479828   | 32.374 | ng    | # 66     |
| 50) Dimethylphthalate          | 9.59  | 163  | 126287   | 8.920  | ng    | 97       |
| 57) 2,4-Dinitrotoluene         | 9.88  | 165  | 26038    | 7.883  | ng    | # 21     |
| 65) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 234      | 7.618  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 8330     | 2.545  | ng    | # 1      |

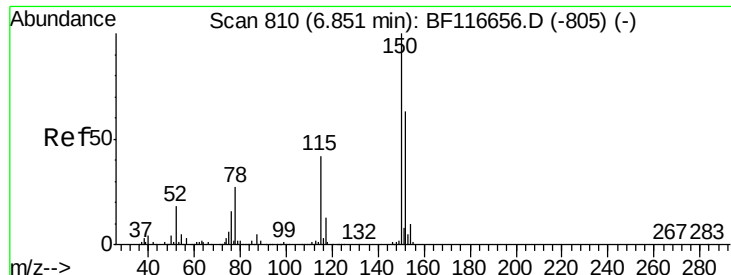
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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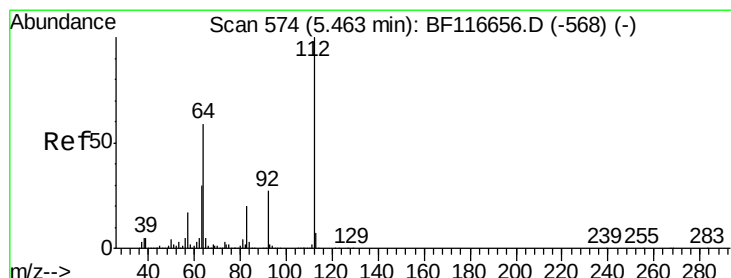
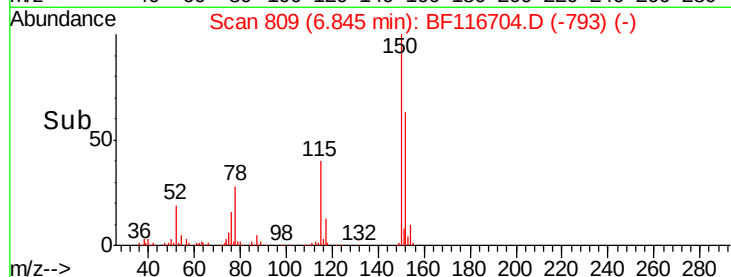
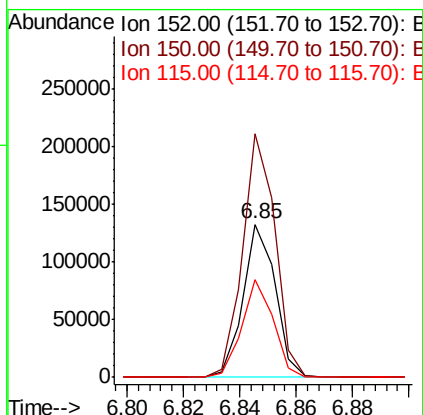
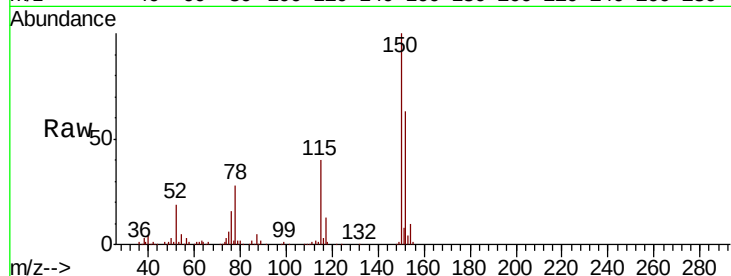


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF116704.D  
Acq: 31 Aug 2019 17:28

Instrument :  
BNA\_F  
ClientSampleId :  
TP8-COMP

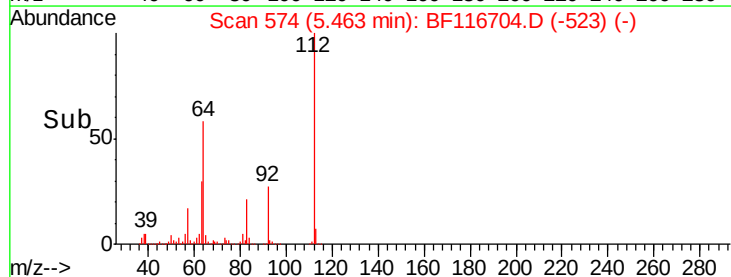
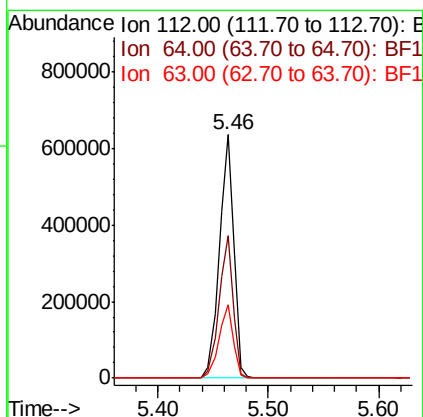
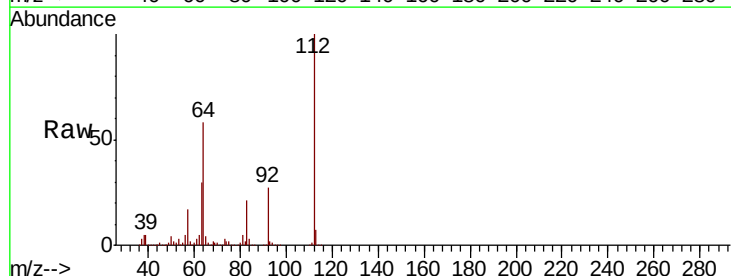
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.9 | 124.4 | 186.6 |
| 115     | 64.0  | 49.9  | 74.9  |

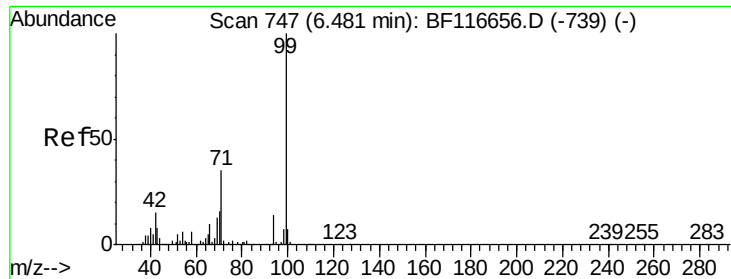


#5

2-Fluorophenol  
Concen: 88.910 ng  
RT: 5.46 min Scan# 574  
Delta R.T. 0.00 min  
Lab File: BF116704.D  
Acq: 31 Aug 2019 17:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.5  | 47.1  | 70.7  |
| 63      | 30.0  | 24.9  | 37.3  |





#7

Phenol-d6

Concen: 91.761 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

Instrument :

BNA\_F

ClientSampleId :

TP8-COMP

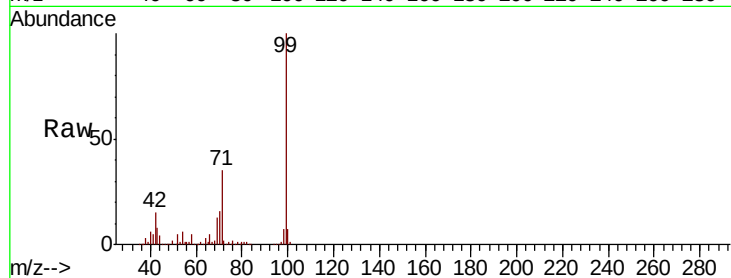
Tot Ion: 99 Resp: 784725

Ion Ratio Lower Upper

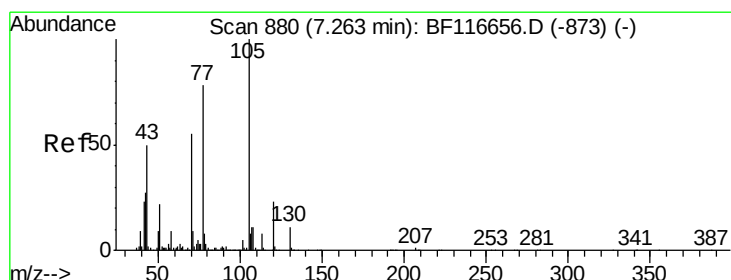
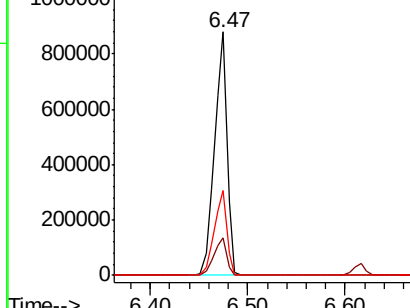
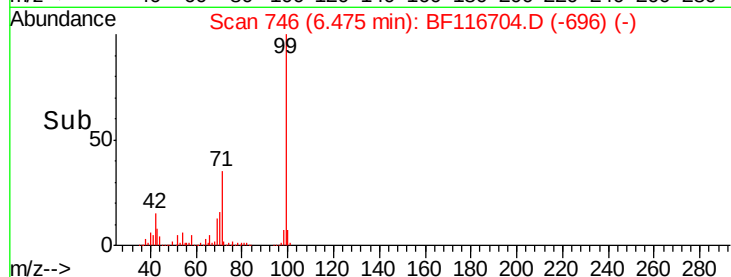
99 100

42 15.2 13.7 20.5

71 35.1 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



#19

n-Nitroso-di-n-propylamine

Concen: 11.320 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

Tgt Ion: 70 Resp: 63743

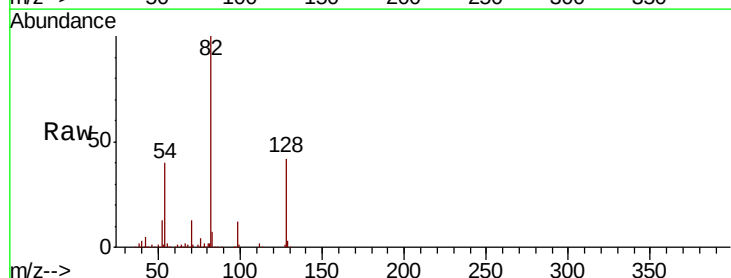
Ion Ratio Lower Upper

70 100

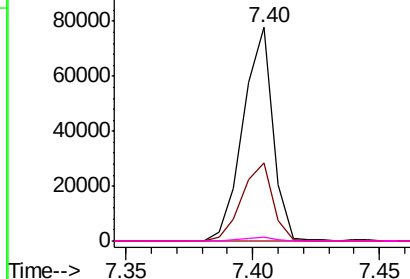
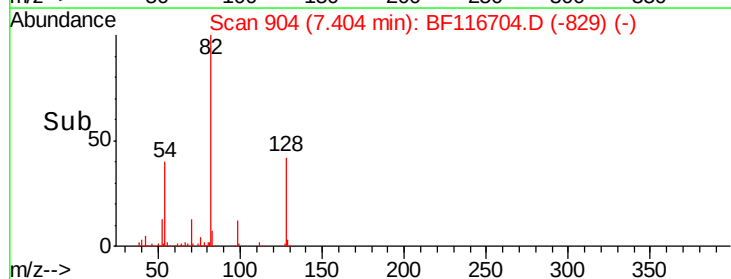
42 36.4 43.5 65.3#

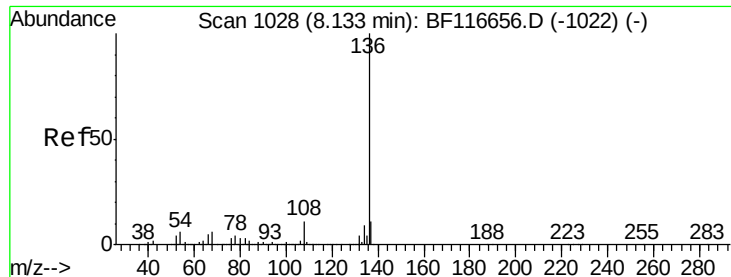
101 0.0 7.8 11.6#

130 1.8 16.6 24.8#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1

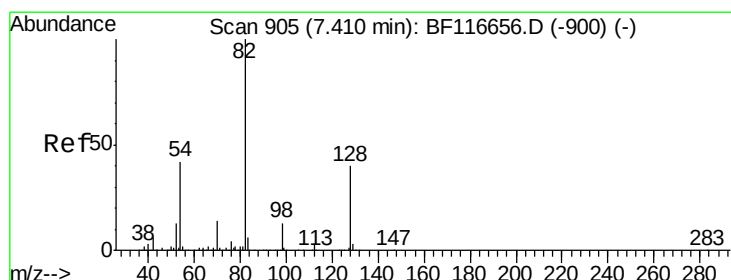
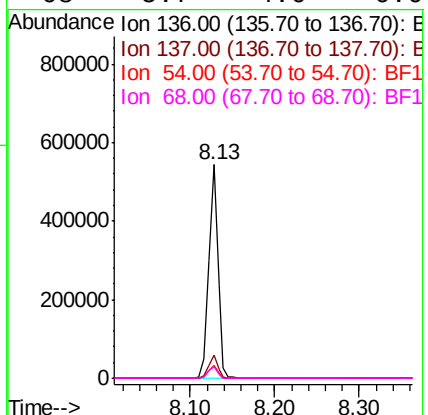
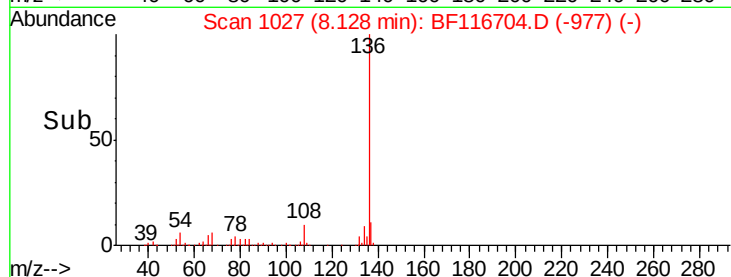
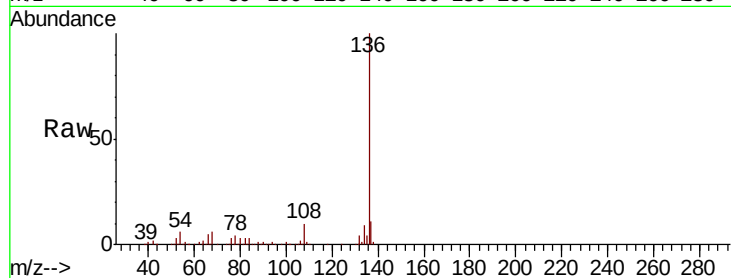




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF116704.D  
Acq: 31 Aug 2019 17:28

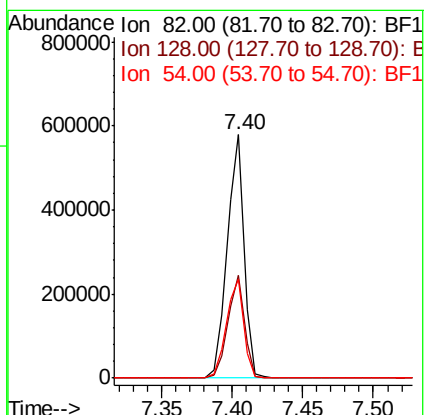
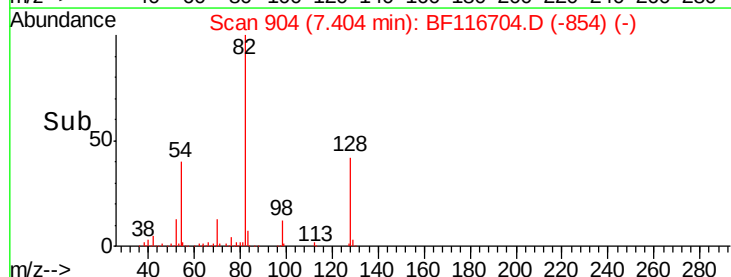
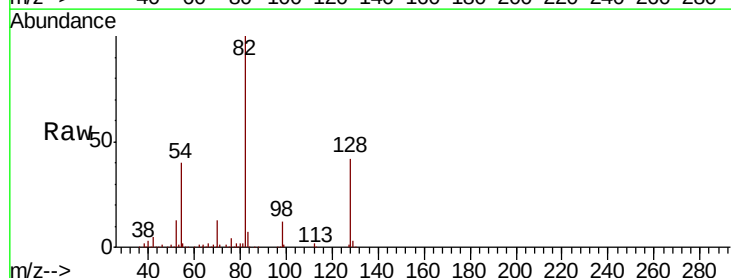
Instrument :  
BNA\_F  
ClientSampleId :  
TP8-COMP

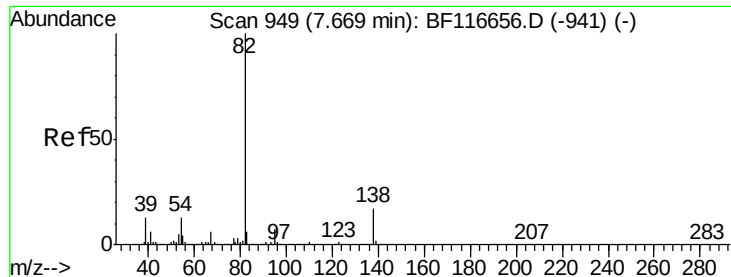
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 417561      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 8.9 13.3    |
| 54          | 5.9   | 4.8 7.2     |
| 68          | 5.7   | 4.0 6.0     |



#23  
Nitrobenzene-d5  
Concen: 65.601 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF116704.D  
Acq: 31 Aug 2019 17:28

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 479832      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 42.3  | 32.8 49.2   |
| 54          | 40.4  | 36.9 55.3   |





#25

Isophorone

Concen: 32.374 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

Instrument :

BNA\_F

ClientSampleId :

TP8-COMP

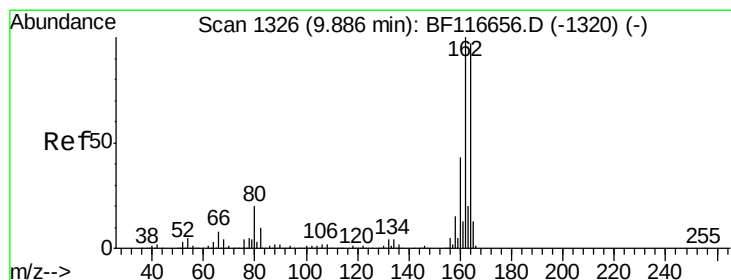
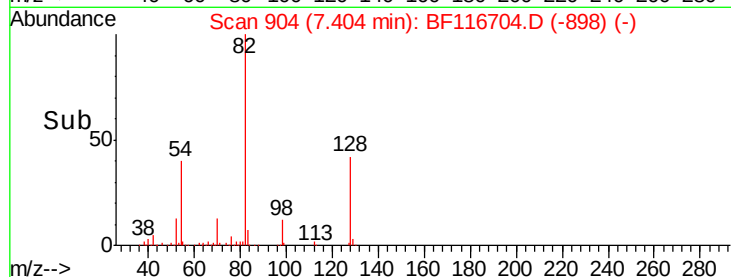
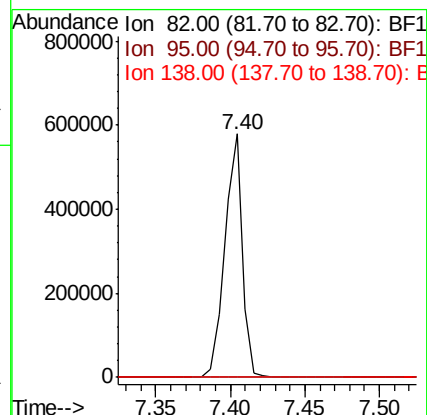
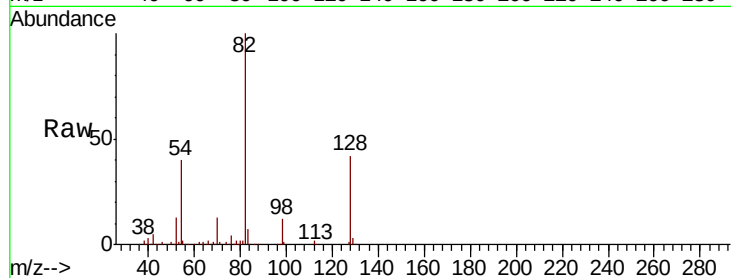
Tot Ion: 82 Resp: 479828

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 13.5 20.3#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

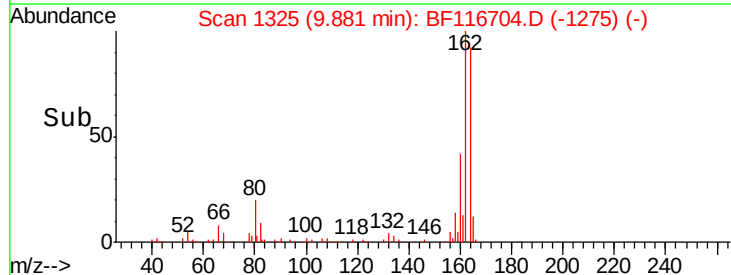
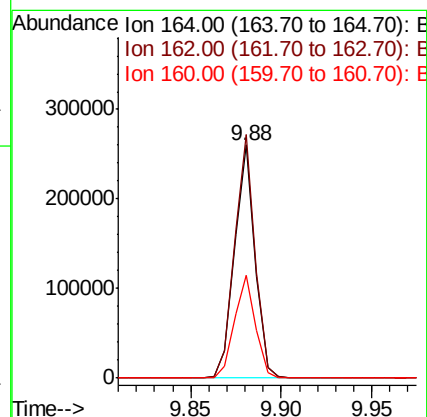
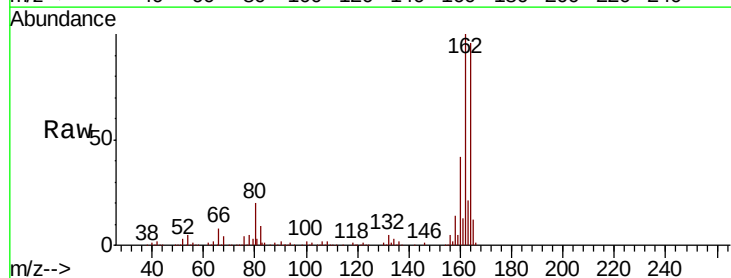
Tgt Ion: 164 Resp: 205077

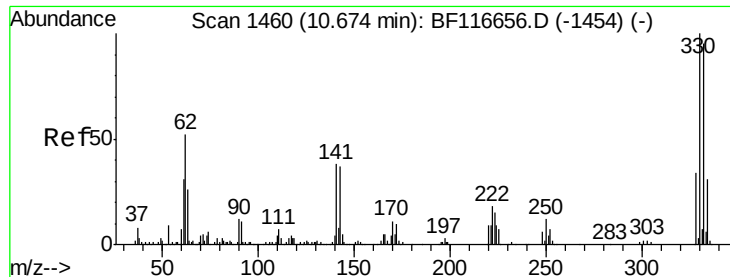
Ion Ratio Lower Upper

164 100

162 104.6 81.4 122.0

160 43.9 35.4 53.2

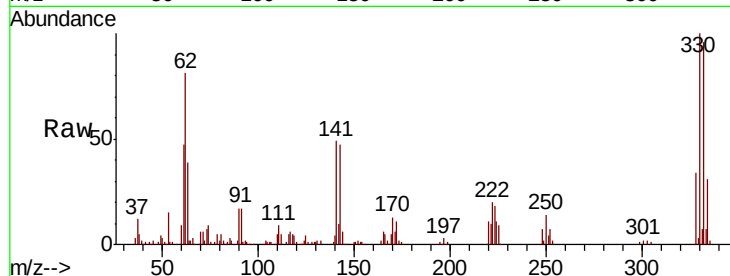




#42  
 2,4,6-Tribromophenol  
 Concen: 95.173 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.01 min  
 Lab File: BF116704.D  
 Acq: 31 Aug 2019 17:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP8-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 76.9  | 115.3 |
| 141     | 44.6  | 31.4  | 47.2  |

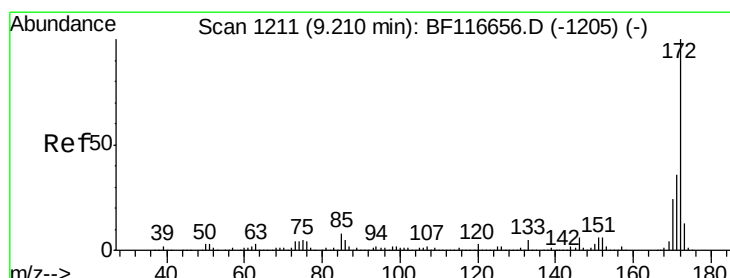
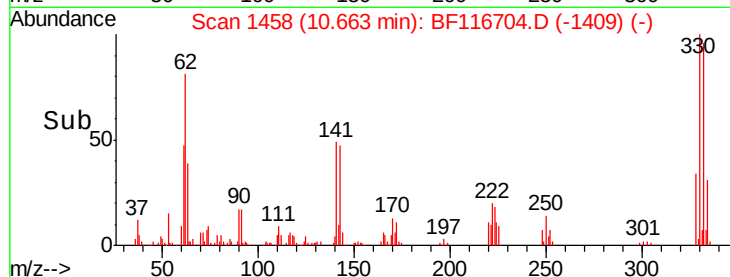
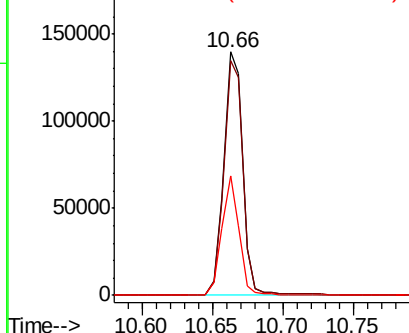


Abundance

Ion 329.80 (329.50 to 330.50): E

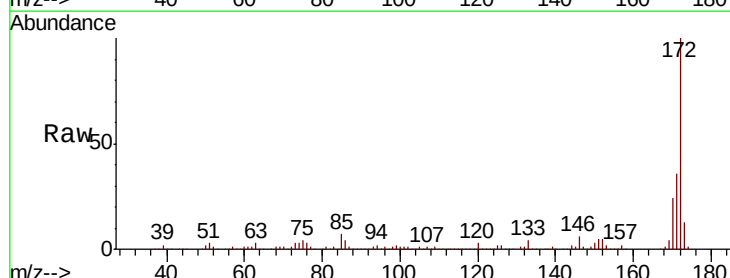
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 64.501 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.00 min  
 Lab File: BF116704.D  
 Acq: 31 Aug 2019 17:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 27.8  | 41.6  |
| 170     | 24.0  | 18.9  | 28.3  |

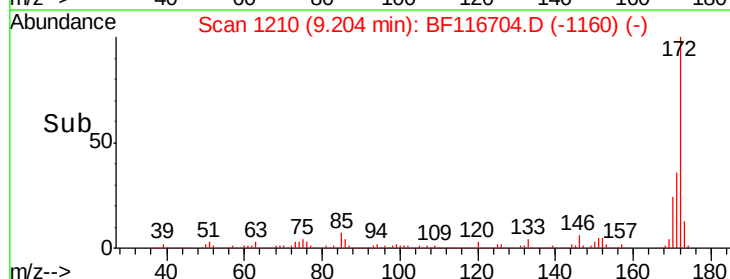
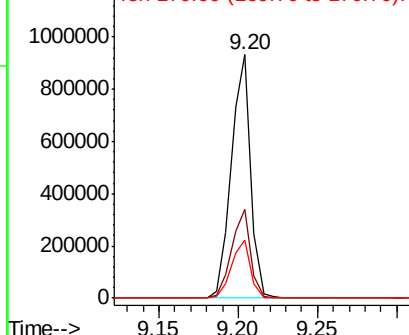


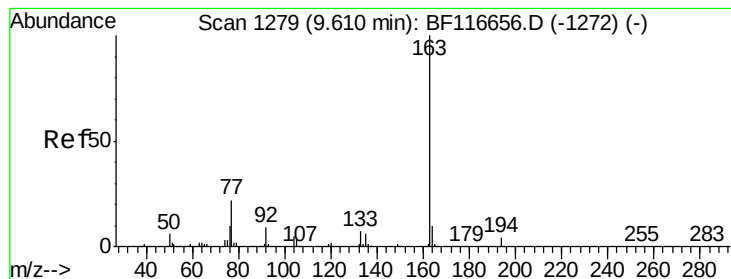
Abundance

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: 8.920 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

Instrument :

BNA\_F

ClientSampleId :

TP8-COMP

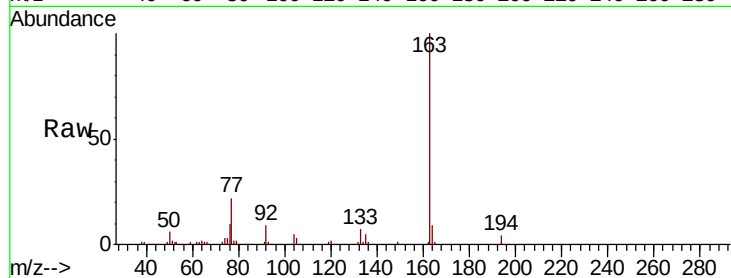
Tot Ion:163 Resp: 126287

Ion Ratio Lower Upper

163 100

194 3.9 2.8 4.2

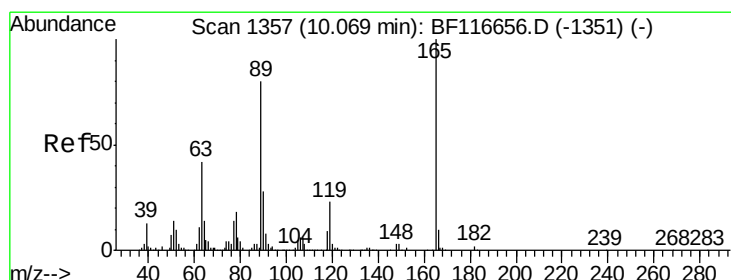
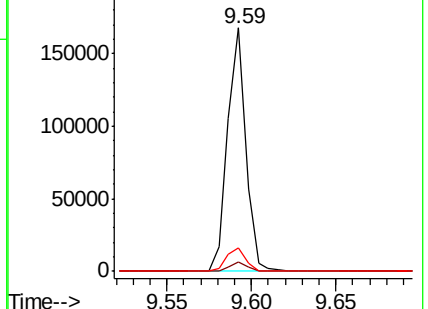
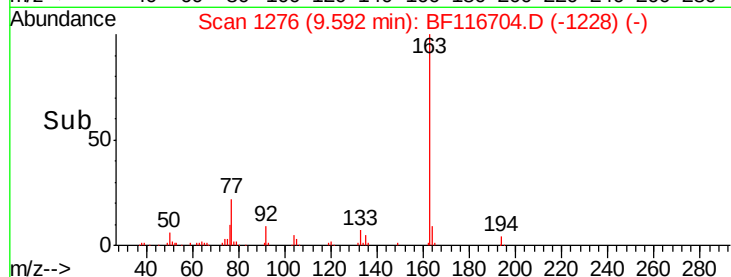
164 9.5 8.6 12.8



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



#57

2,4-Dinitrotoluene

Concen: 7.883 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.19 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

Tgt Ion:165 Resp: 26038

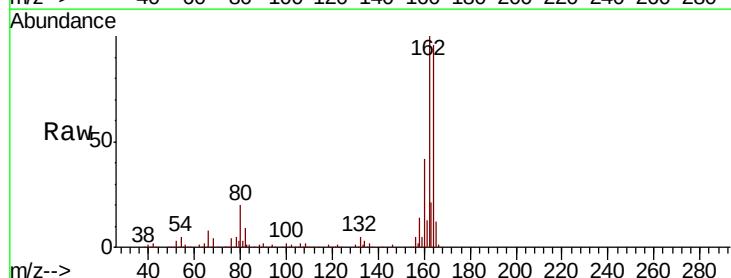
Ion Ratio Lower Upper

165 100

63 1.3 36.4 54.6#

89 1.5 62.6 94.0#

182 0.0 2.1 3.1#

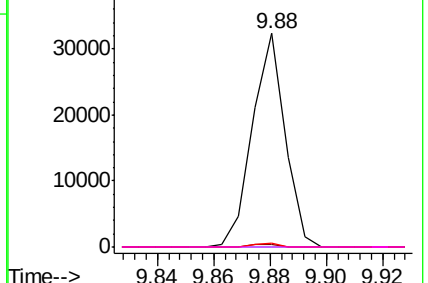
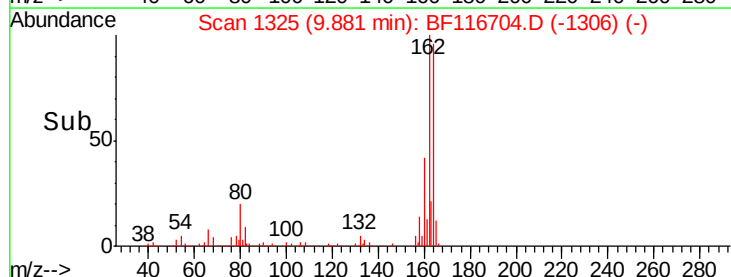


Abundance Ion 165.00 (164.70 to 165.70): E

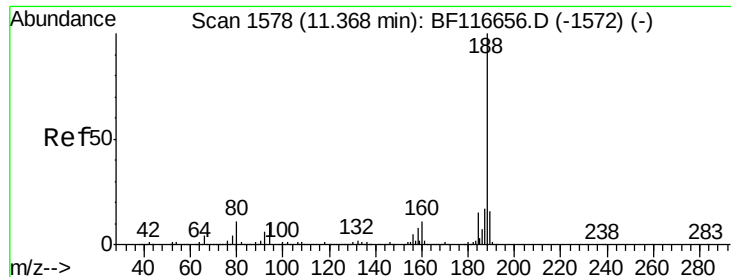
Ion 63.00 (62.70 to 63.70): BF1

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: BF116704.D

Acq: 31 Aug 2019 17:28

Instrument :

BNA\_F

ClientSampleId :

TP8-COMP

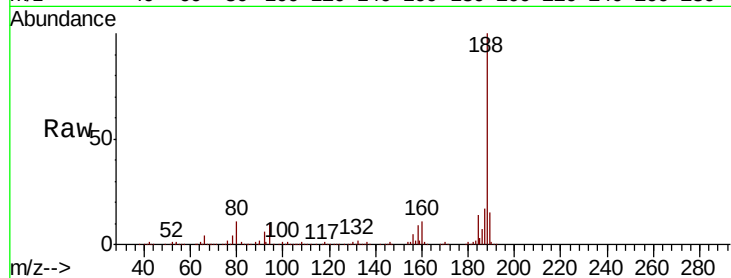
Tot Ion:188 Resp: 322158

Ion Ratio Lower Upper

188 100

94 10.1 7.3 10.9

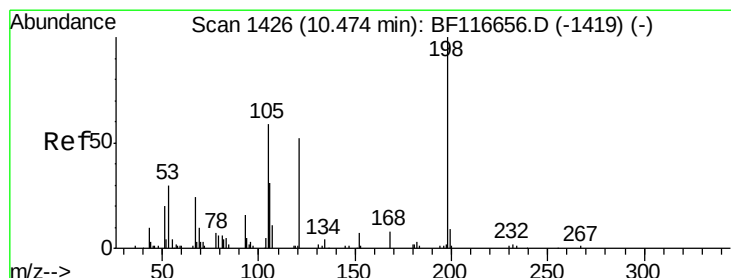
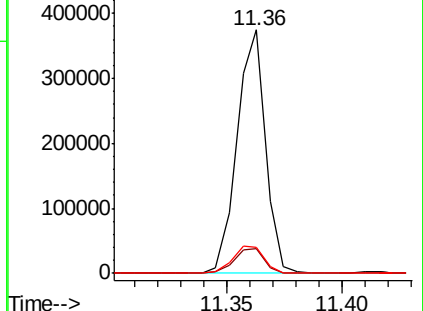
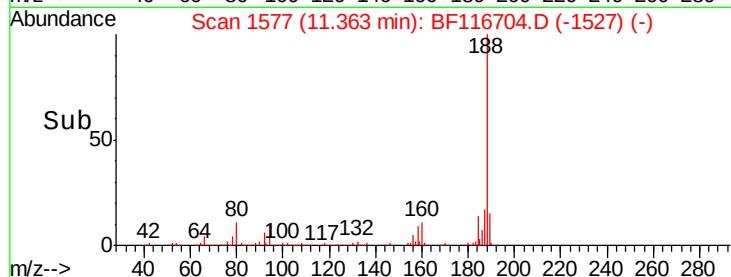
80 10.8 8.4 12.6



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: 7.618 ng

RT: 10.66 min Scan# 1458

Delta R.T. 0.19 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

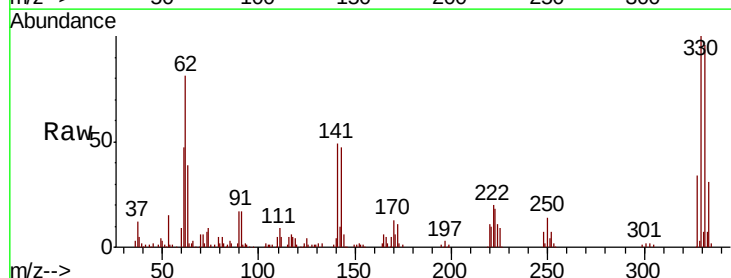
Tgt Ion:198 Resp: 234

Ion Ratio Lower Upper

198 100

51 232.1 18.4 58.4#

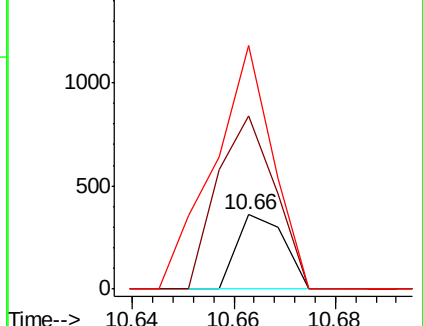
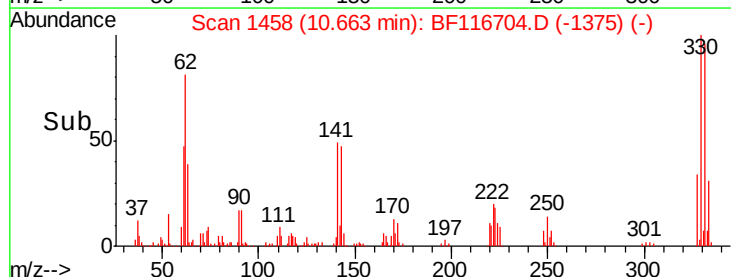
105 326.6 22.9 62.9#

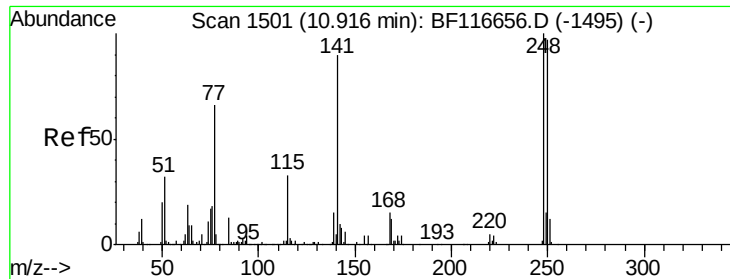


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

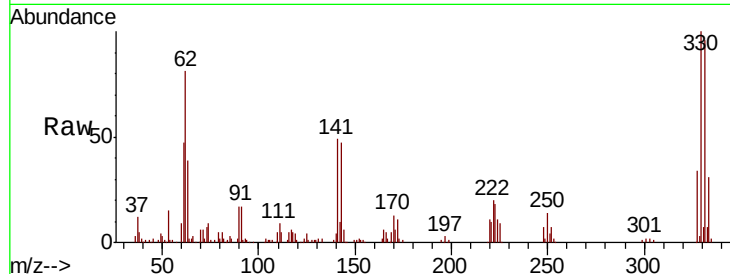




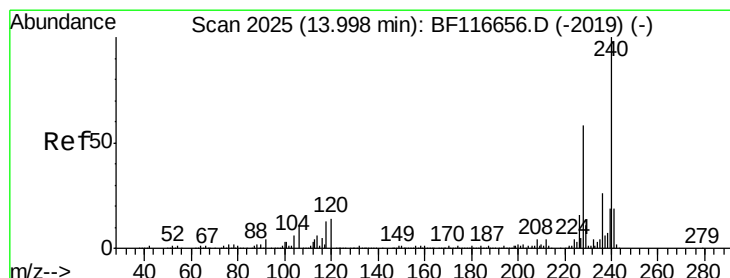
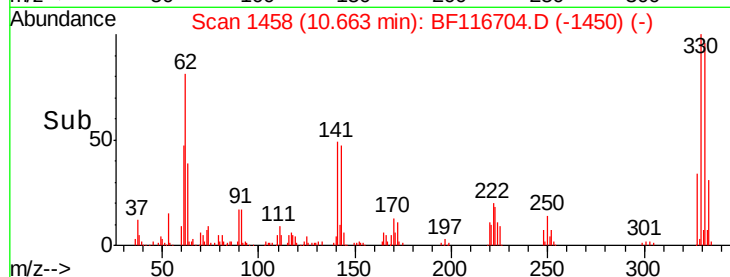
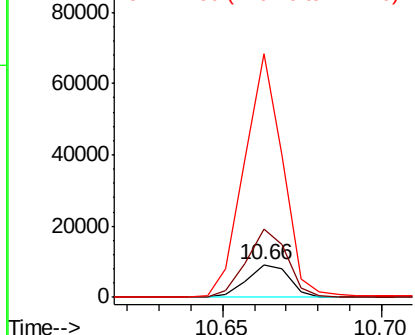
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.545 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.25 min  
 Lab File: BF116704.D  
 Acq: 31 Aug 2019 17:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP8-COMP

Tot Ion:248 Resp: 8330  
 Ion Ratio Lower Upper  
 248 100  
 250 210.2 77.8 116.8#  
 141 745.8 75.9 113.9#

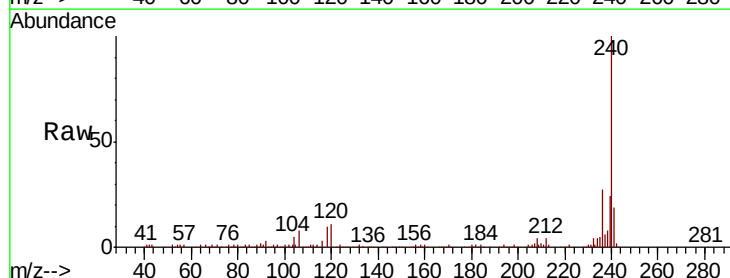


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

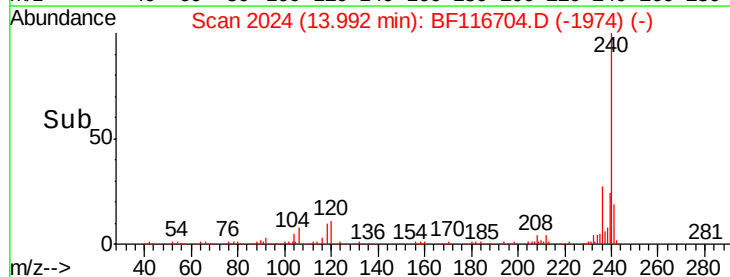
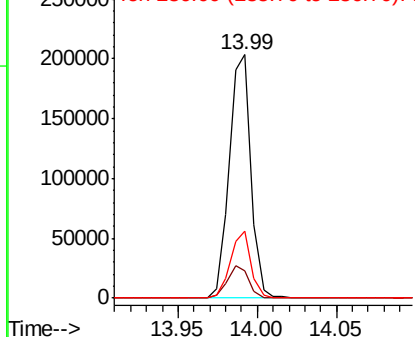


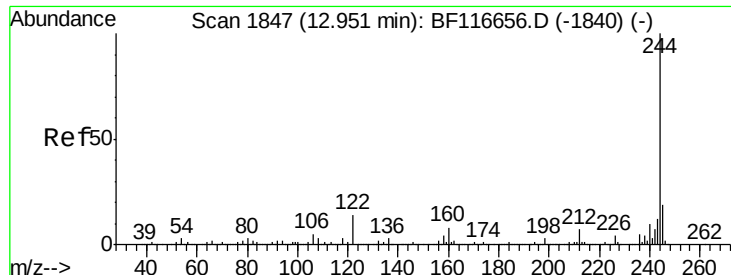
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.99 min Scan# 2024  
 Delta R.T. -0.01 min  
 Lab File: BF116704.D  
 Acq: 31 Aug 2019 17:28

Tgt Ion:240 Resp: 192546  
 Ion Ratio Lower Upper  
 240 100  
 120 11.5 9.1 13.7  
 236 27.4 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





#79

Terphenyl-d14

Concen: 59.536 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

Instrument :

BNA\_F

ClientSampleId :

TP8-COMP

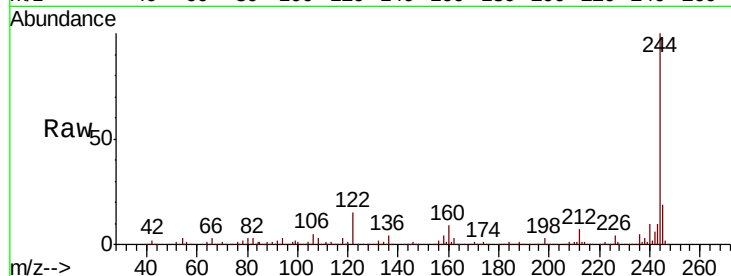
Tot Ion:244 Resp: 619660

Ion Ratio Lower Upper

244 100

212 7.1 6.1 9.1

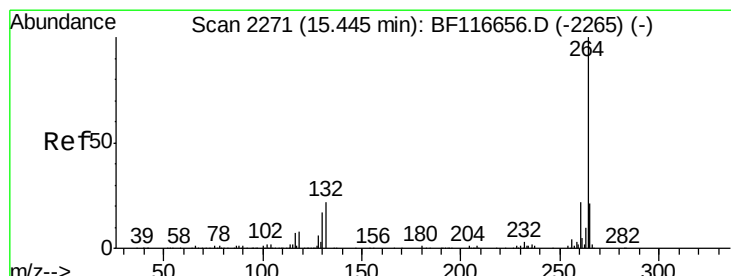
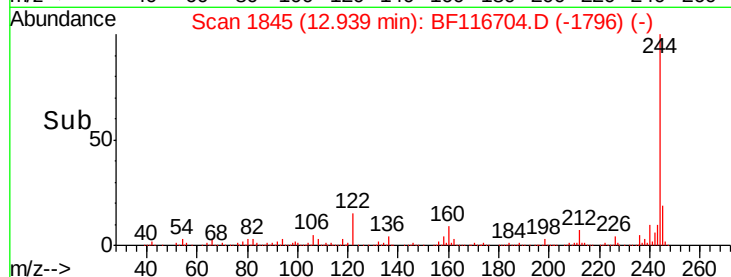
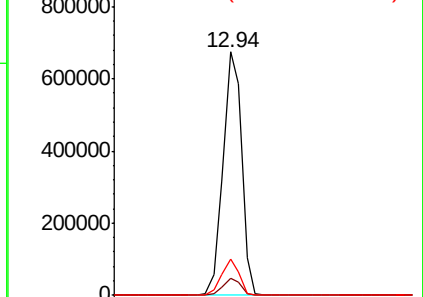
122 14.8 10.2 15.4



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

Perylene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2271

Delta R.T. 0.00 min

Lab File: BF116704.D

Acq: 31 Aug 2019 17:28

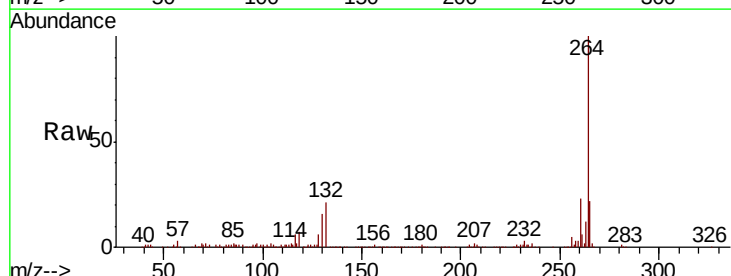
Tgt Ion:264 Resp: 235805

Ion Ratio Lower Upper

264 100

260 23.3 18.3 27.5

265 21.7 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

