

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090617\  
 Data File : BF098308.D  
 Acq On : 7 Sep 2017 8:20  
 Operator : SJ/JU  
 Sample : I5090-02  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090117-TIDO-E-U-M

Quant Time: Sep 07 15:21:27 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.69  | 152  | 106860   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.98  | 136  | 401810   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.73  | 164  | 151205   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.21 | 188  | 246754   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 13.84 | 240  | 224937   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 15.26 | 264  | 150926   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 318373   | 45.32 | ng    | 0.00     |
| 7) Phenol-d6                | 6.33  | 99   | 308982   | 32.37 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 699616   | 94.59 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 101669   | 77.49 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 994596   | 96.64 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 715311   | 66.31 | ng    | -0.01    |

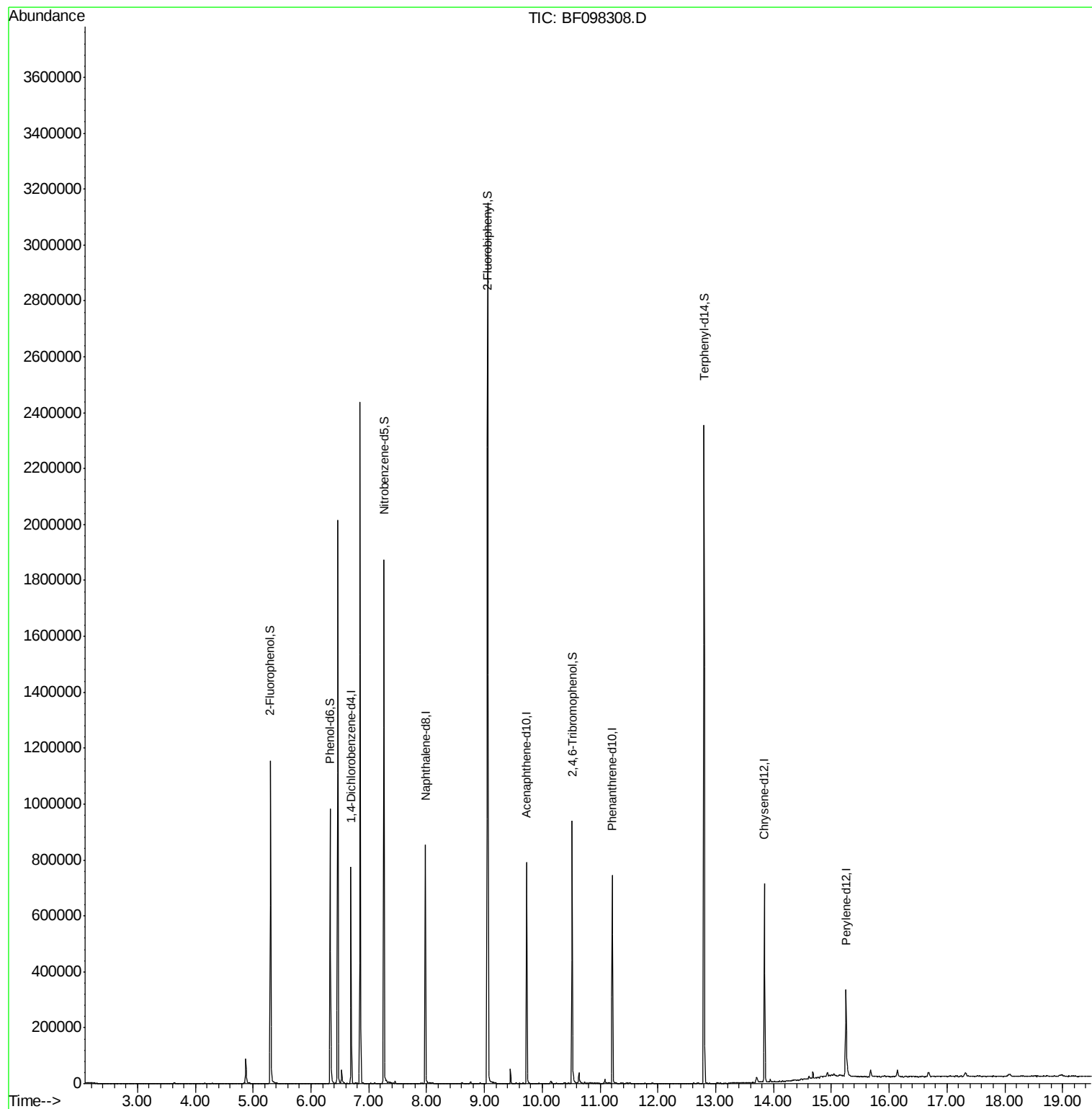
Target Compounds Qvalue

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

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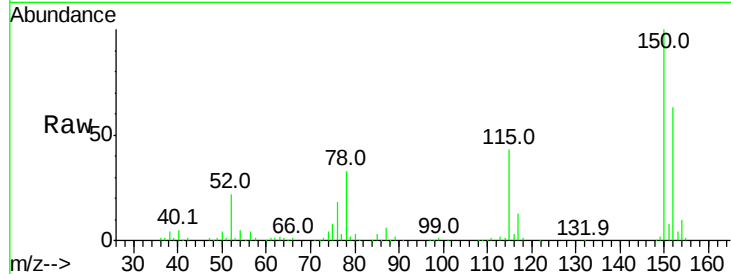


#1

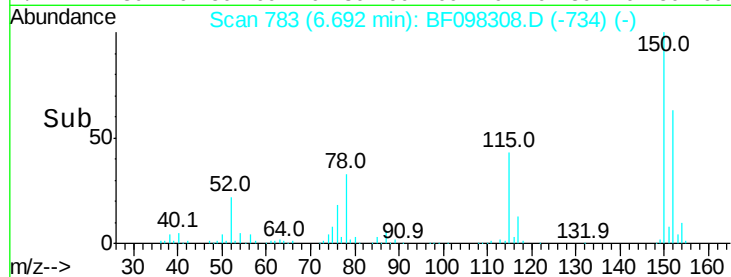
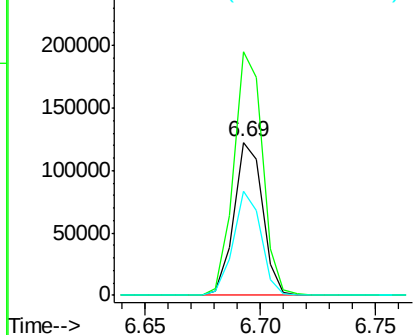
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.69 min Scan# 783  
Delta R.T. -0.01 min  
Lab File: BF098308.D  
Acq: 7 Sep 2017 8:20

Instrument :  
BNA\_F  
ClientSampleId :  
090117-TIDO-E-U-M

Tot Ion:152 Resp: 106860  
Ion Ratio Lower Upper  
152 100  
150 158.8 126.2 189.2  
115 67.7 52.2 78.2



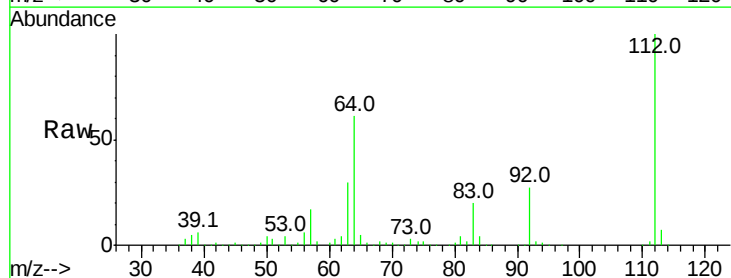
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



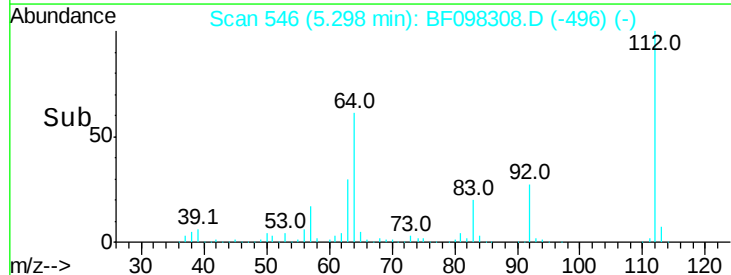
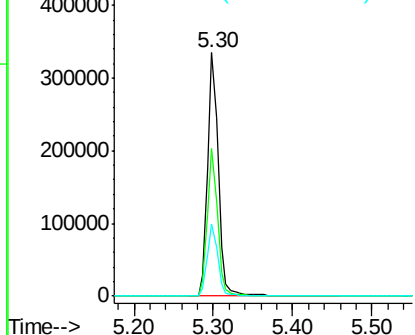
#5

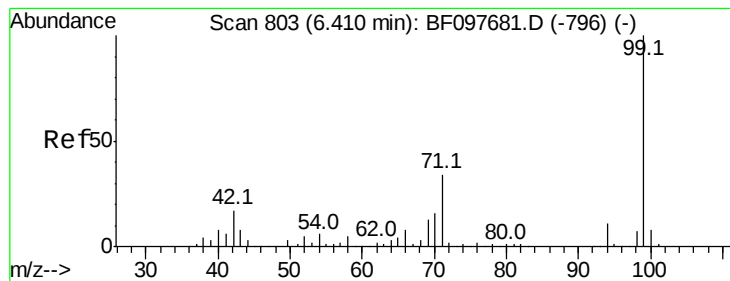
2-Fluorophenol  
Concen: 45.318 ng  
RT: 5.30 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: BF098308.D  
Acq: 7 Sep 2017 8:20

Tgt Ion:112 Resp: 318373  
Ion Ratio Lower Upper  
112 100  
64 60.9 46.0 69.0  
63 29.8 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 32.370 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

Instrument :

BNA\_F

ClientSampleId :

090117-TIDO-E-U-M

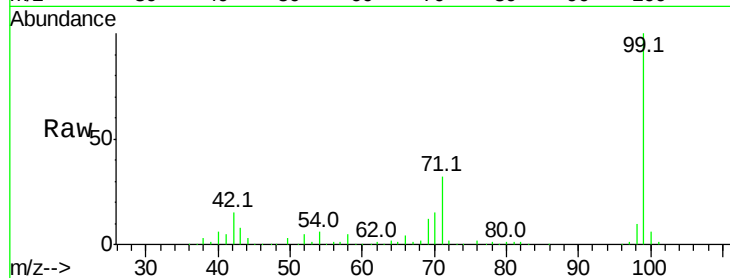
Tot Ion: 99 Resp: 308982

Ion Ratio Lower Upper

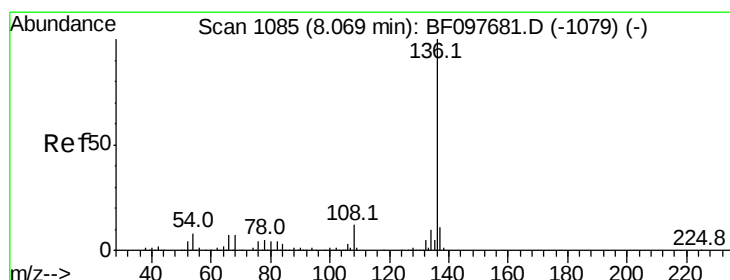
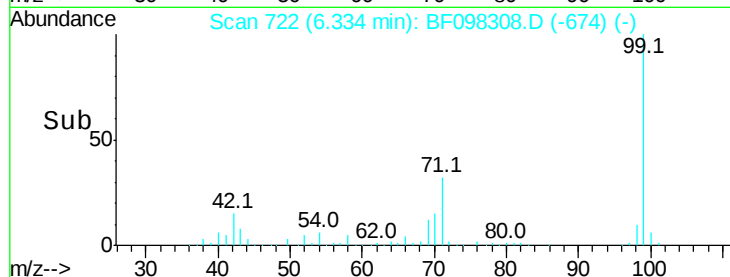
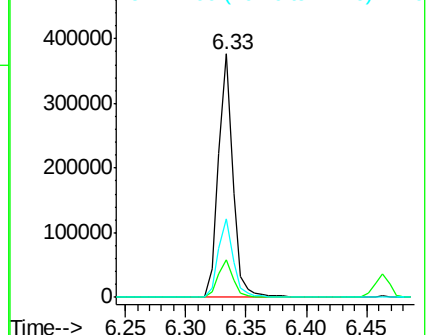
99 100

42 15.3 13.5 20.3

71 32.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

Tgt Ion: 136 Resp: 401810

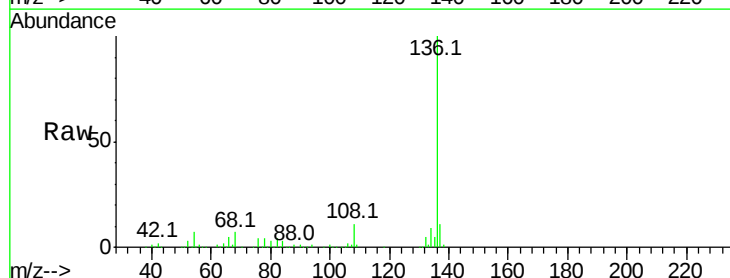
Ion Ratio Lower Upper

136 100

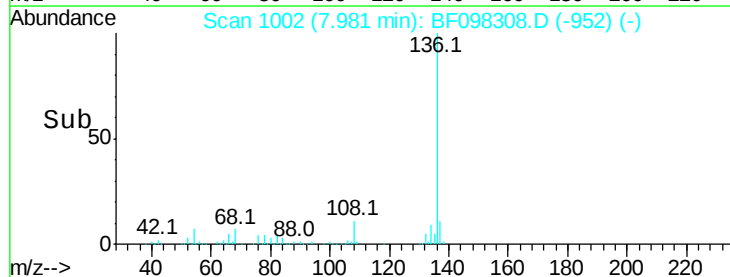
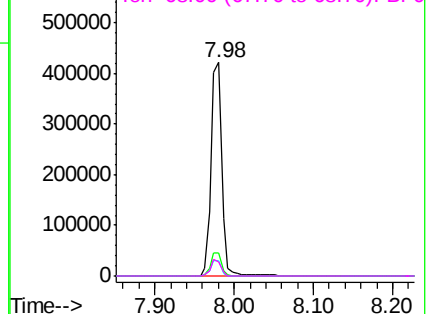
137 10.6 8.5 12.7

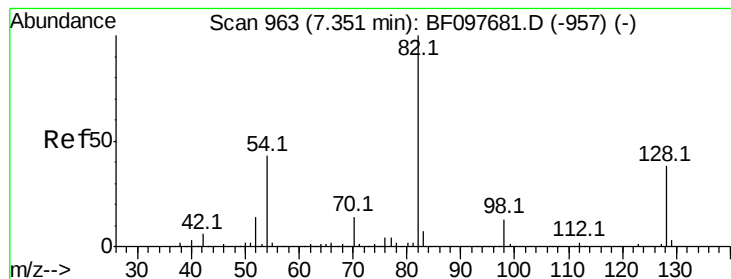
54 7.0 4.9 7.3

68 6.8 4.1 6.1#



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): BF0  
Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 94.588 ng

RT: 7.26 min Scan# 880

Delta R.T. -0.01 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

Instrument :

BNA\_F

ClientSampleId :

090117-TIDO-E-U-M

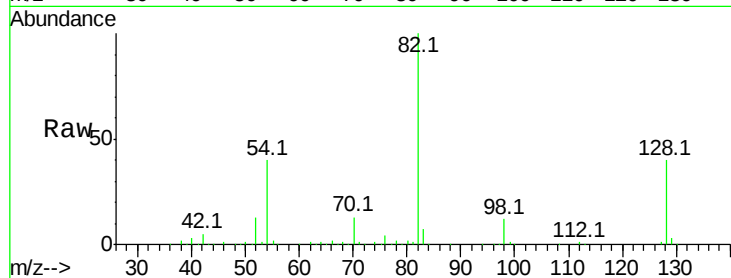
Tot Ion: 82 Resp: 699616

Ion Ratio Lower Upper

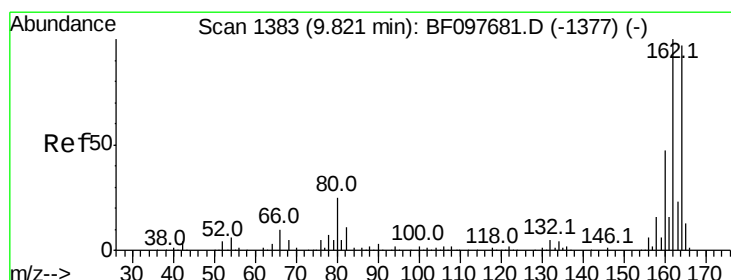
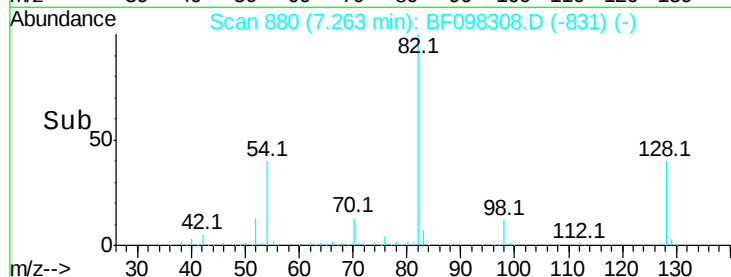
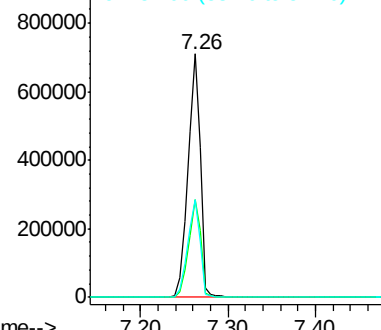
82 100

128 40.0 34.0 51.0

54 40.2 42.2 63.2#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

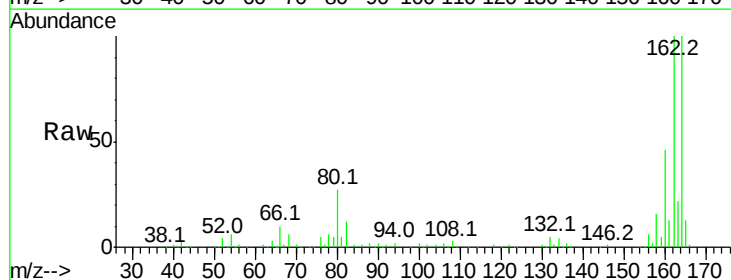
Tgt Ion: 164 Resp: 151205

Ion Ratio Lower Upper

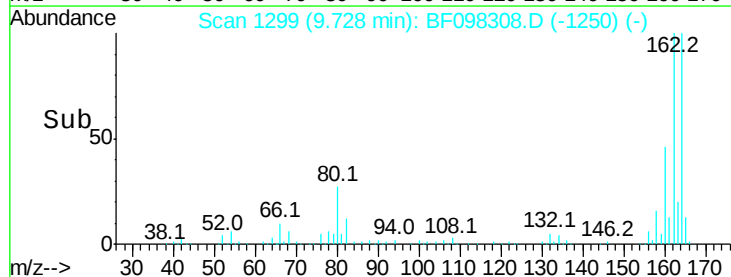
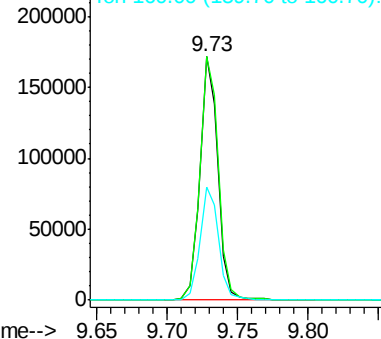
164 100

162 100.2 82.6 123.8

160 46.3 36.2 54.2



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

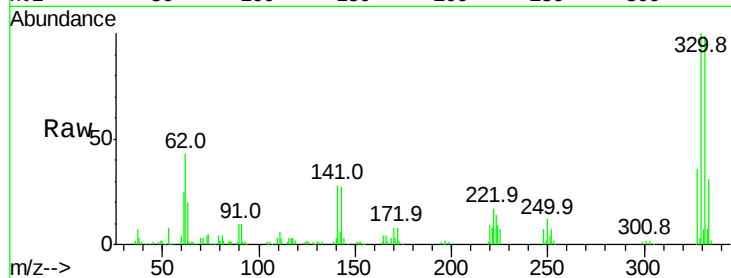




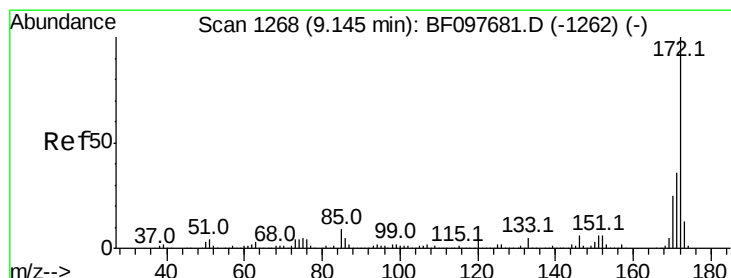
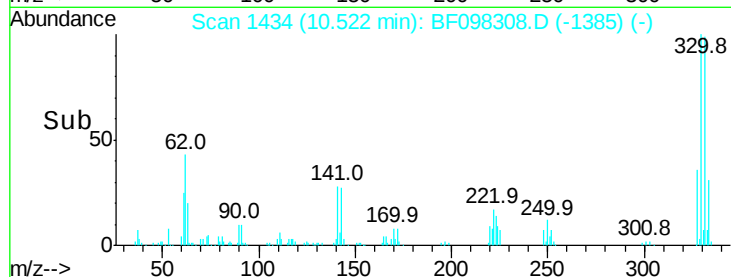
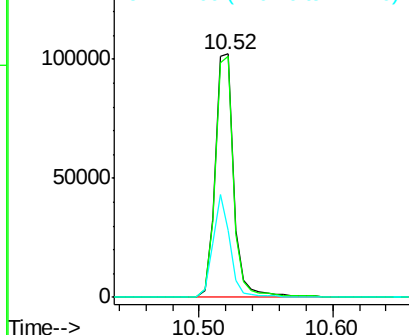
#41  
 2,4,6-Tribromophenol  
 Concen: 77.495 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF098308.D  
 Acq: 7 Sep 2017 8:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090117-TIDO-E-U-M

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.5  | 76.6  | 115.0 |
| 141     | 38.1  | 31.4  | 47.2  |

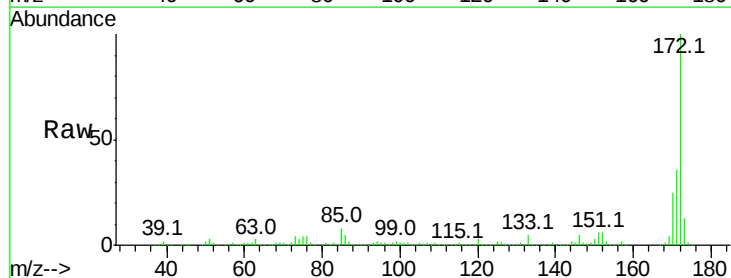


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

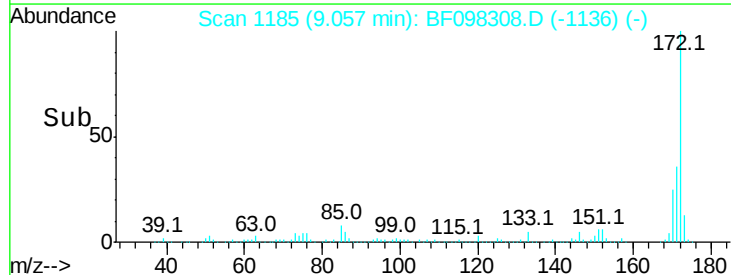
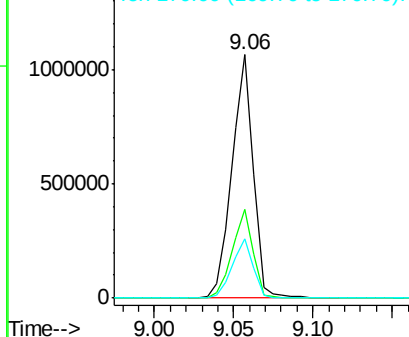


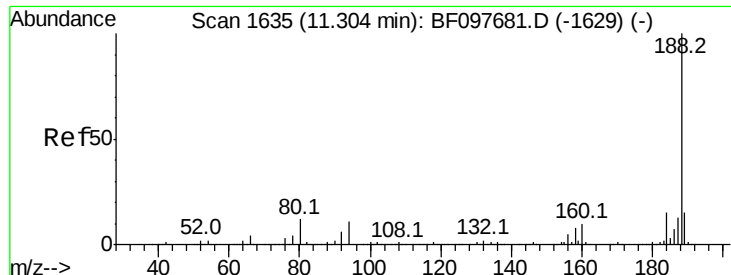
#44  
 2-Fluorobiphenyl  
 Concen: 96.641 ng  
 RT: 9.06 min Scan# 1185  
 Delta R.T. -0.01 min  
 Lab File: BF098308.D  
 Acq: 7 Sep 2017 8:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 29.6  | 44.4  |
| 170     | 24.5  | 19.8  | 29.8  |



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.21 min Scan# 1551

Delta R.T. -0.01 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

Instrument :

BNA\_F

ClientSampleId :

090117-TIDO-E-U-M

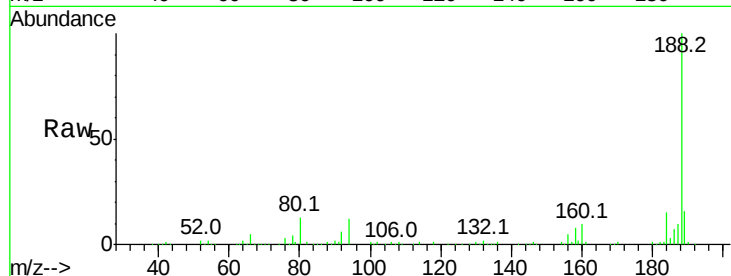
Tot Ion:188 Resp: 246754

Ion Ratio Lower Upper

188 100

94 12.0 9.4 14.2

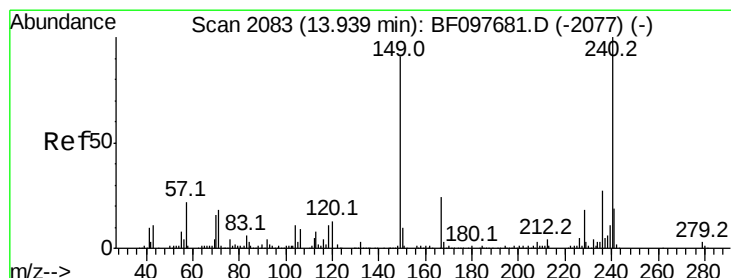
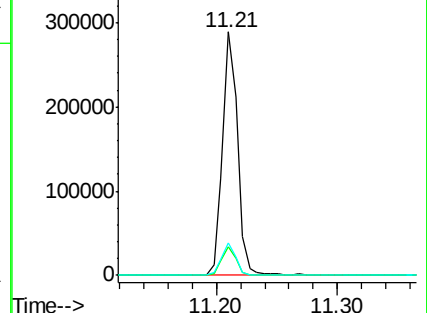
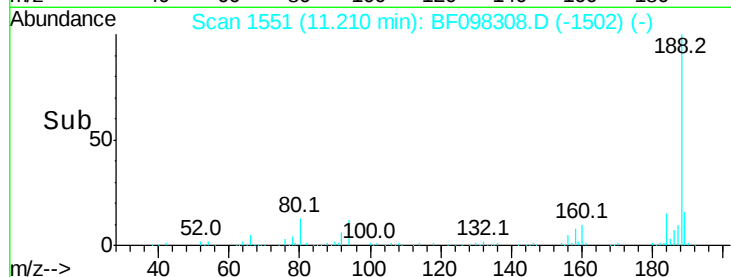
80 13.4 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.02 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

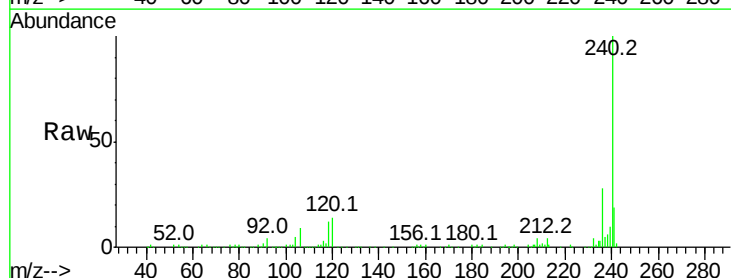
Tgt Ion:240 Resp: 224937

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

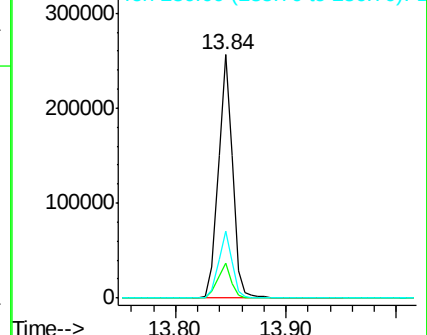
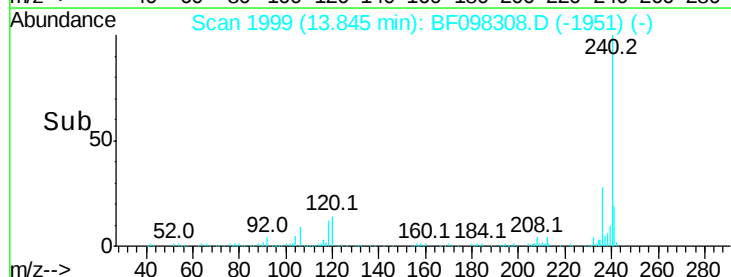
236 27.7 20.5 30.7

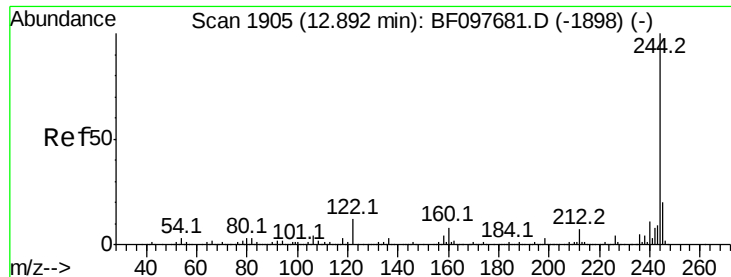


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 66.315 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

Instrument :

BNA\_F

ClientSampleId :

090117-TIDO-E-U-M

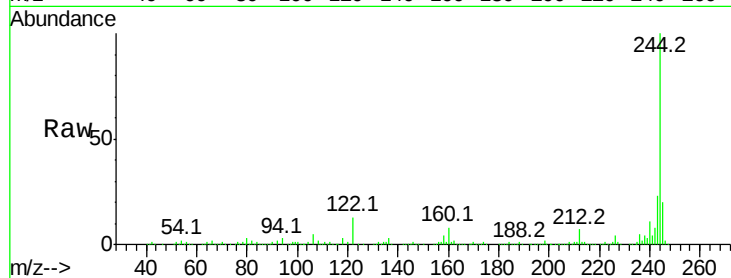
Tot Ion:244 Resp: 715311

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

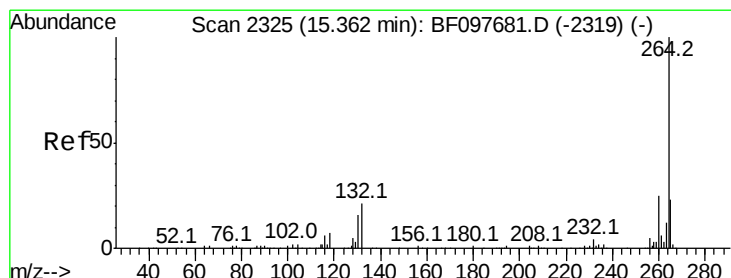
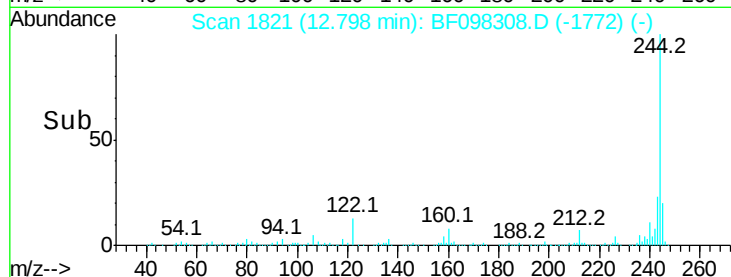
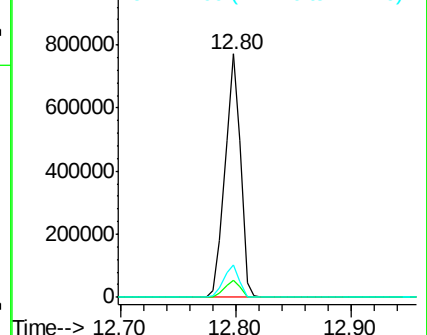
122 13.5 10.3 15.5



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.26 min Scan# 2239

Delta R.T. -0.01 min

Lab File: BF098308.D

Acq: 7 Sep 2017 8:20

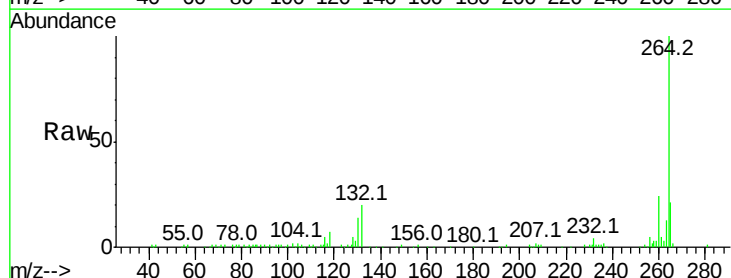
Tgt Ion:264 Resp: 150926

Ion Ratio Lower Upper

264 100

260 23.9 19.5 29.3

265 20.6 17.2 25.8



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

