

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060619\  
 Data File : BF114875.D  
 Acq On : 6 Jun 2019 21:09  
 Operator : HP/JU  
 Sample : K3184-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FOOTING-1

Quant Time: Jun 07 00:04:04 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 04 16:57:15 2019  
 Response via : Initial Calibration

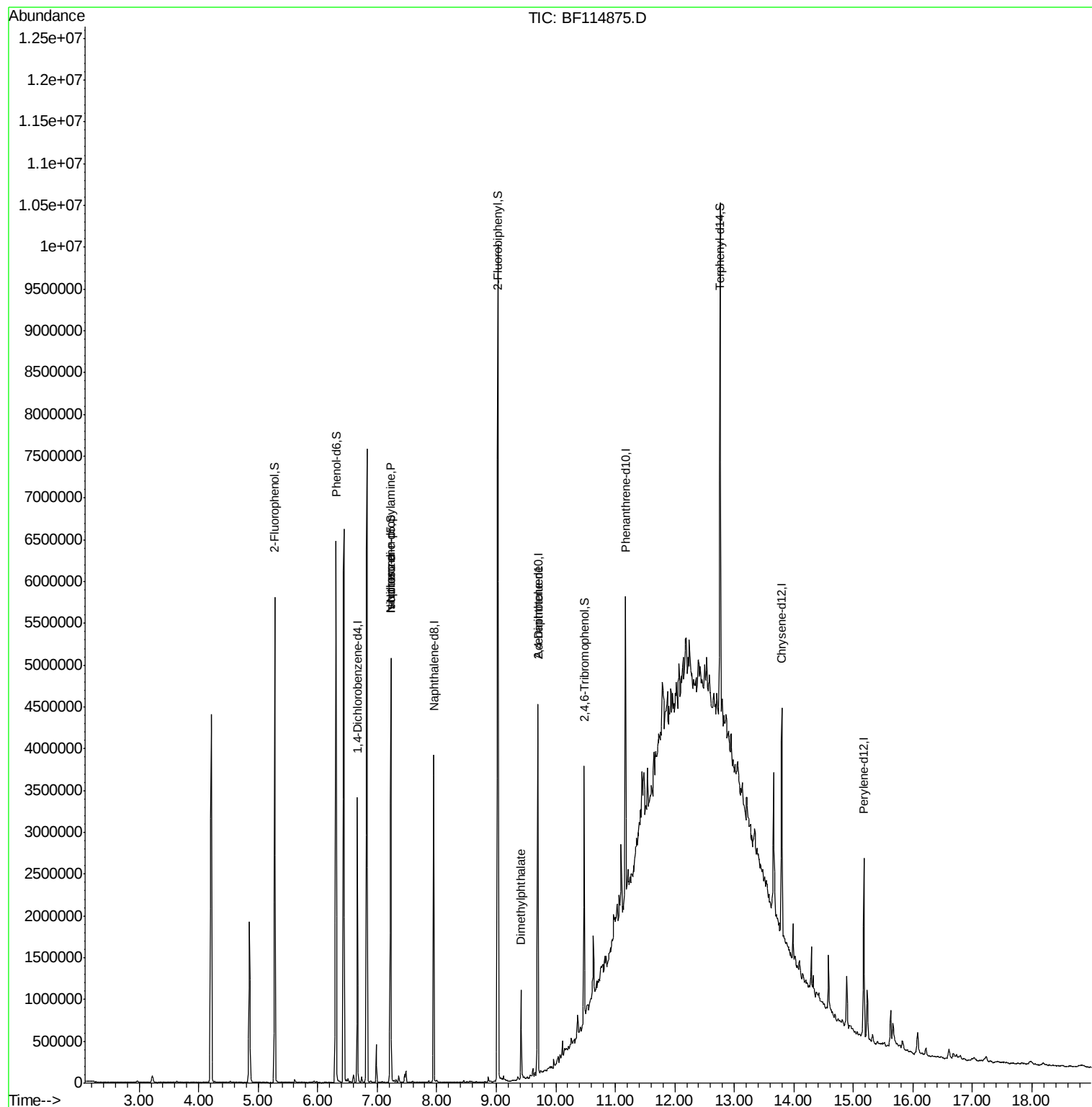
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.67  | 152  | 503032   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.95  | 136  | 1933735  | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.70  | 164  | 924641   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.17 | 188  | 1506669  | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.80 | 240  | 931792   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 15.17 | 264  | 935982   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.28  | 112  | 1741654  | 60.50     | ng    | 0.02     |
| 7) Phenol-d6                   | 6.31  | 99   | 2648826  | 75.62     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.23  | 82   | 1990080  | 63.35     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.48 | 330  | 408311   | 40.98     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.03  | 172  | 3426623  | 69.42     | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.76 | 244  | 2859698  | 59.69     | ng    | 0.01     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.23  | 70   | 271451   | 11.706    | ng    | # 76     |
| 25) Isophorone                 | 7.23  | 82   | 1891054  | 30.451    | ng    | # 61     |
| 50) Dimethylphthalate          | 9.42  | 163  | 411135   | 6.088     | ng    | 100      |
| 57) 2,4-Dinitrotoluene         | 9.70  | 165  | 122047   | 6.113     | ng    | # 32     |
| 58) Fluorene                   | 10.24 | 166  | 1314     | Below Cal |       | # 1      |

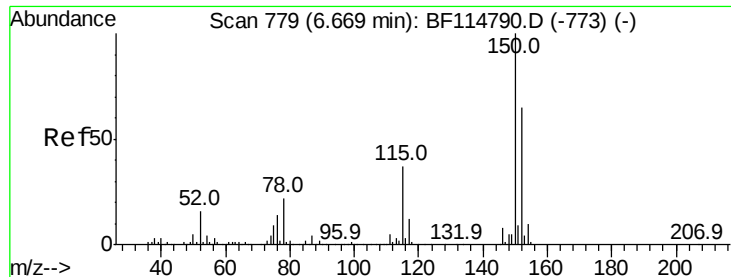
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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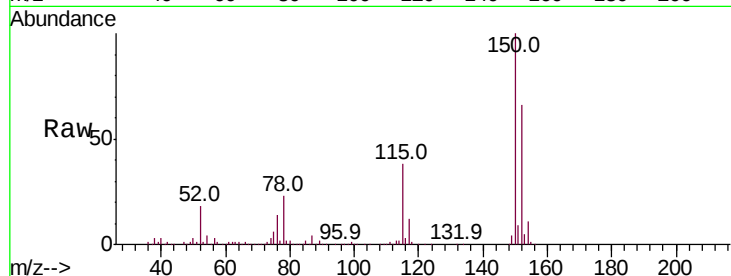


#1

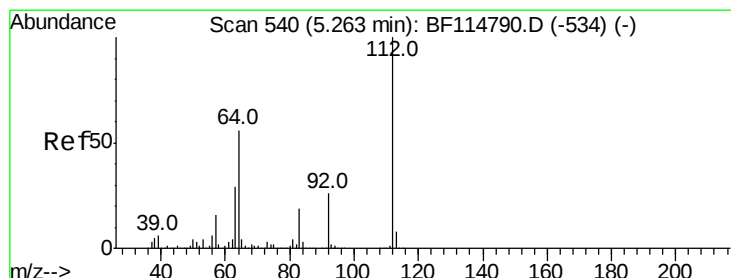
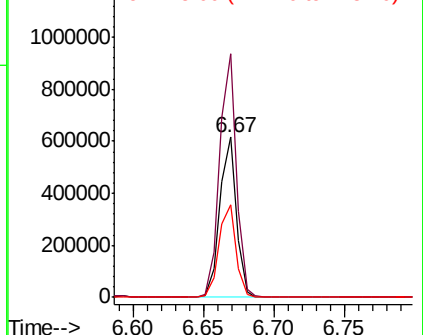
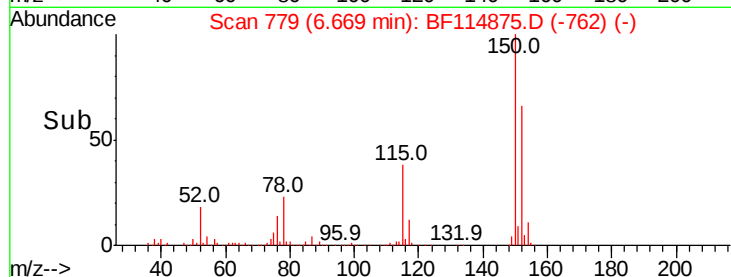
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.67 min Scan# 779  
Delta R.T. -0.00 min  
Lab File: BF114875.D  
Acq: 6 Jun 2019 21:09

Instrument :  
BNA\_F  
ClientSampleId :  
FOOTING-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.2 | 124.0 | 186.0 |
| 115     | 58.2  | 46.3  | 69.5  |



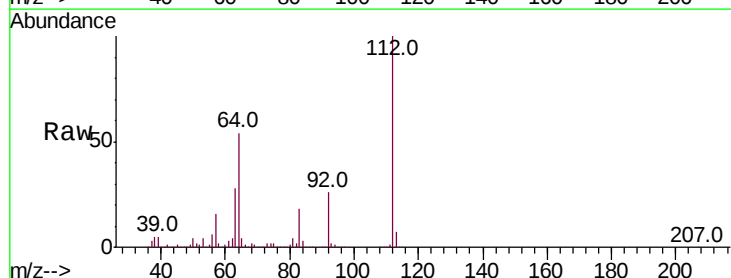
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



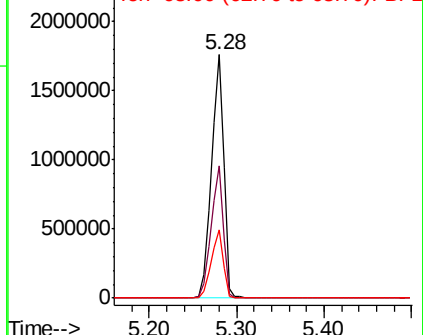
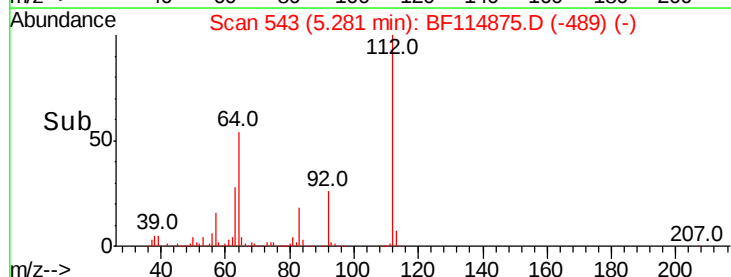
#5

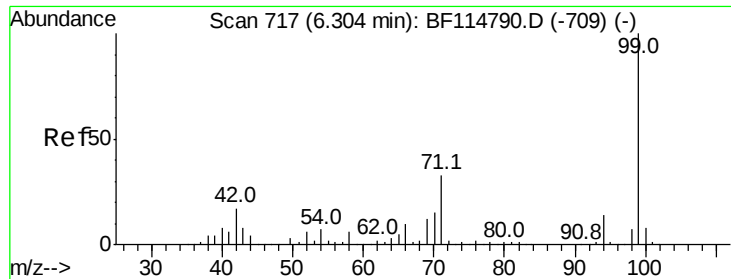
2-Fluorophenol  
Concen: 60.499 ng  
RT: 5.28 min Scan# 543  
Delta R.T. 0.02 min  
Lab File: BF114875.D  
Acq: 6 Jun 2019 21:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.5  | 44.6  | 66.8  |
| 63      | 28.0  | 23.0  | 34.4  |



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: 75.617 ng

RT: 6.31 min Scan# 718

Delta R.T. 0.01 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Instrument :

BNA\_F

ClientSampleId :

FOOTING-1

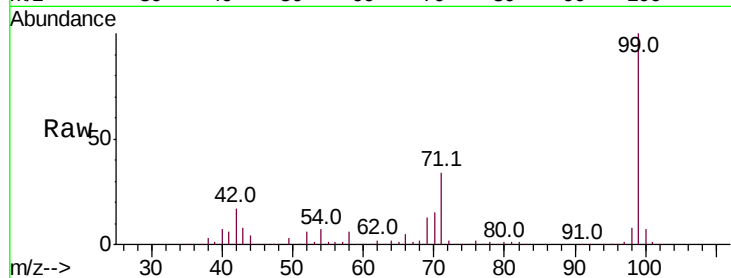
Tot Ion: 99 Resp: 2648826

Ion Ratio Lower Upper

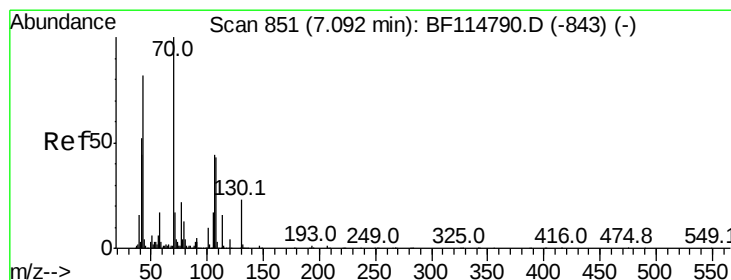
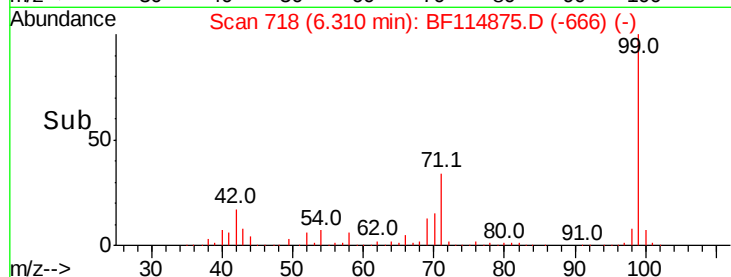
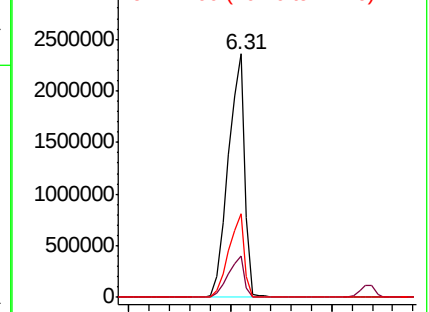
99 100

42 16.8 13.3 19.9

71 34.2 26.3 39.5



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: 11.706 ng

RT: 7.23 min Scan# 875

Delta R.T. 0.14 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Tgt Ion: 70 Resp: 271451

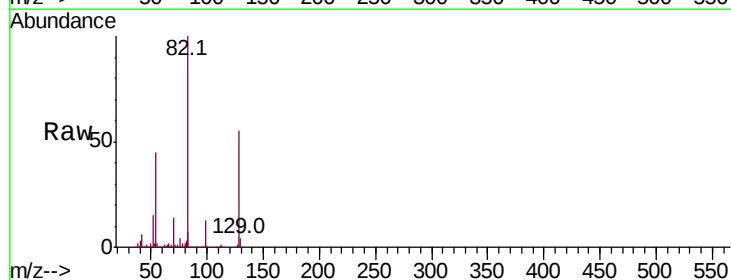
Ion Ratio Lower Upper

70 100

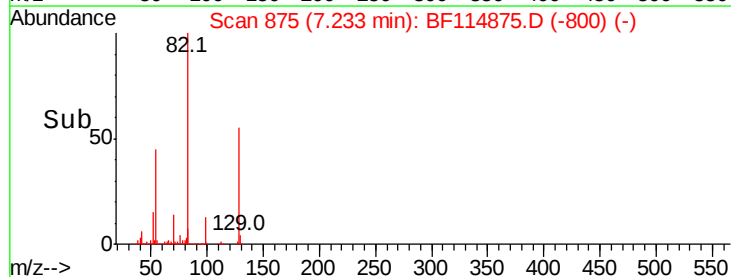
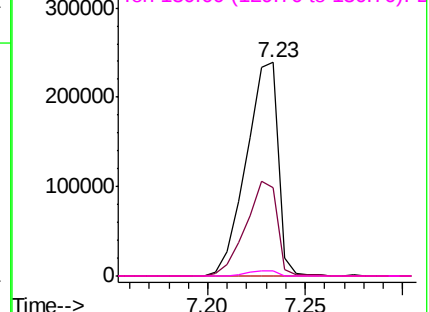
42 41.3 41.8 62.8#

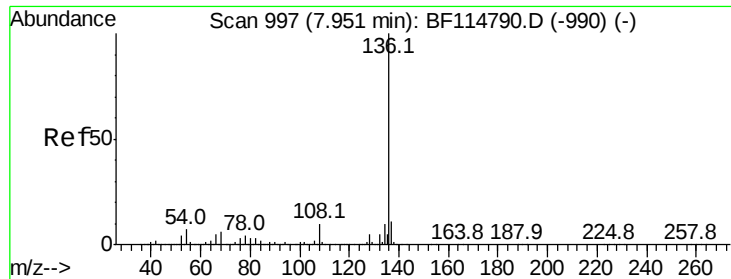
101 0.0 8.2 12.4#

130 2.4 18.5 27.7#



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: 7.95 min Scan# 997

Delta R.T. -0.00 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Instrument :

BNA\_F

ClientSampleId :

FOOTING-1

Tot Ion:136 Resp: 1933735

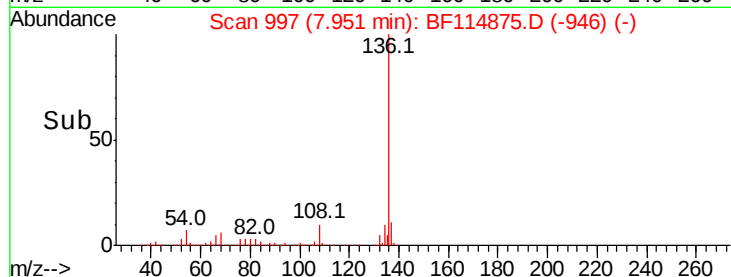
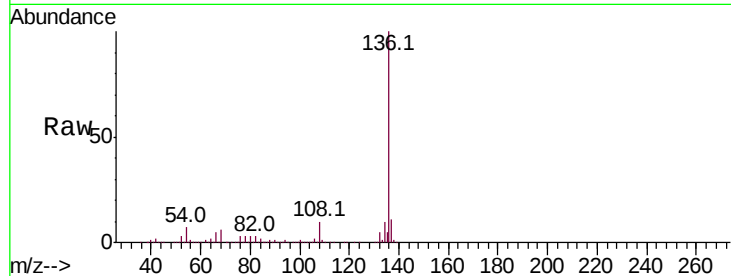
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.5  | 9.1   | 13.7  |
| 54  | 6.5   | 5.4   | 8.0   |
| 68  | 5.8   | 4.6   | 6.8   |

136 100

137 11.5 9.1 13.7

54 6.5 5.4 8.0

68 5.8 4.6 6.8

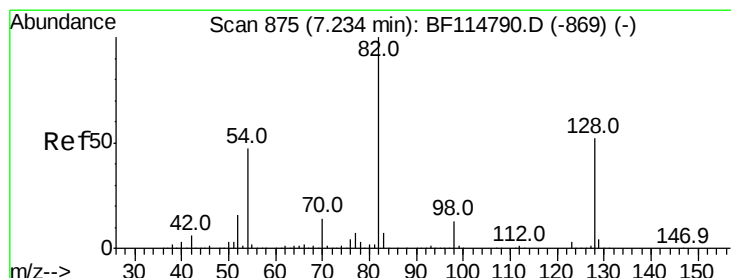
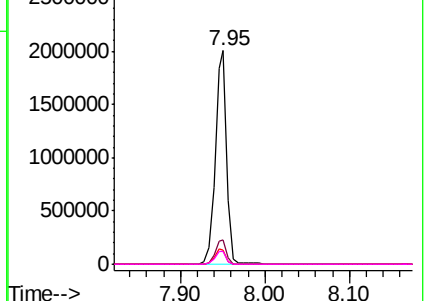


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 63.352 ng

RT: 7.23 min Scan# 875

Delta R.T. -0.00 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

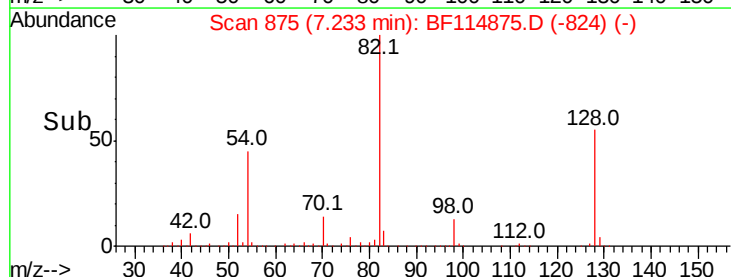
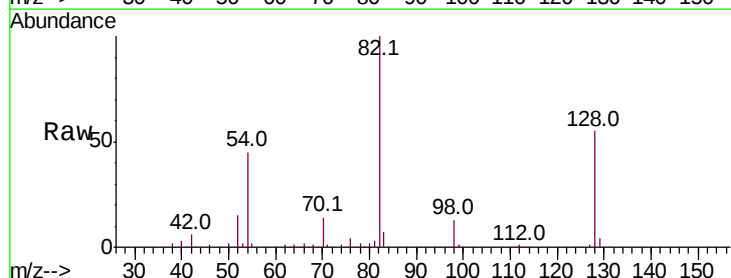
Tgt Ion: 82 Resp: 1990080

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 54.6  | 41.8  | 62.6  |
| 54  | 45.2  | 37.9  | 56.9  |

82 100

128 54.6 41.8 62.6

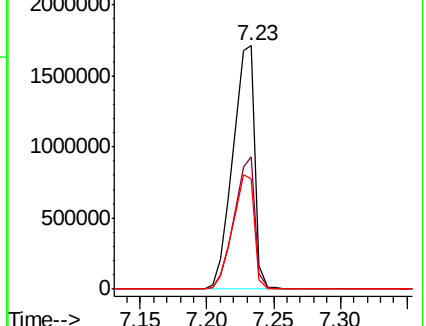
54 45.2 37.9 56.9

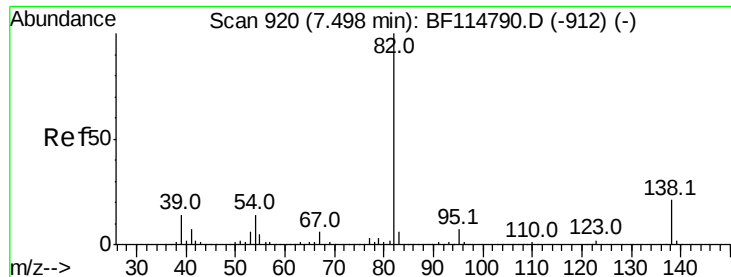


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 30.451 ng

RT: 7.23 min Scan# 875

Delta R.T. -0.26 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Instrument :

BNA\_F

ClientSampleId :

FOOTING-1

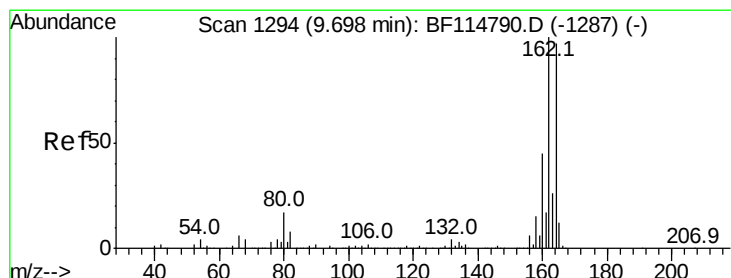
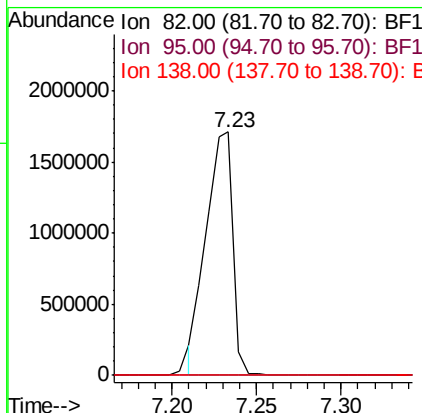
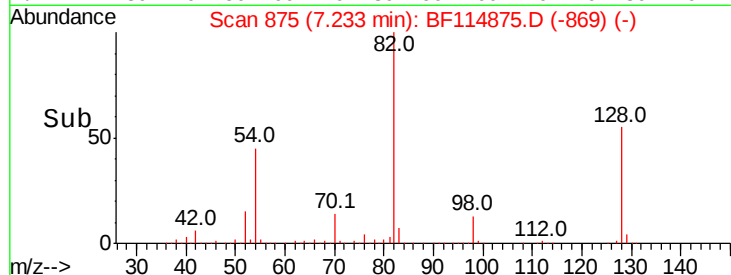
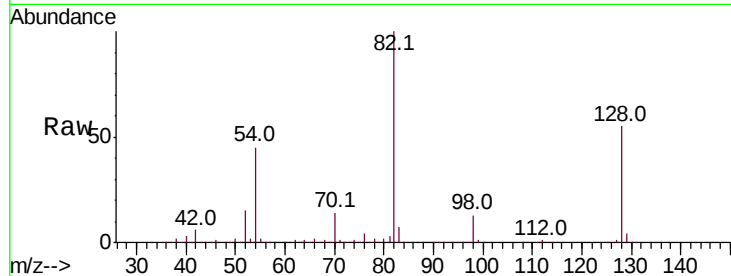
Tot Ion: 82 Resp: 1891054

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

138 0.0 16.9 25.3#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.00 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

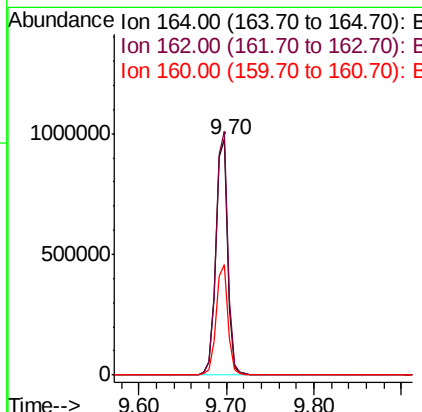
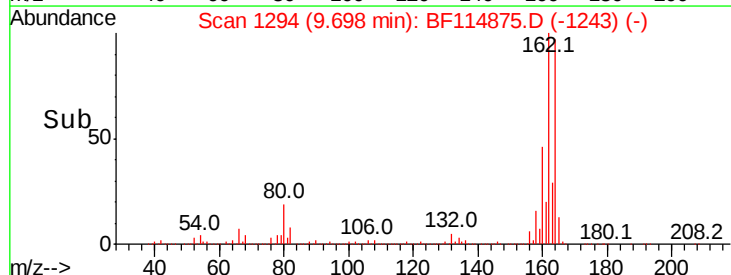
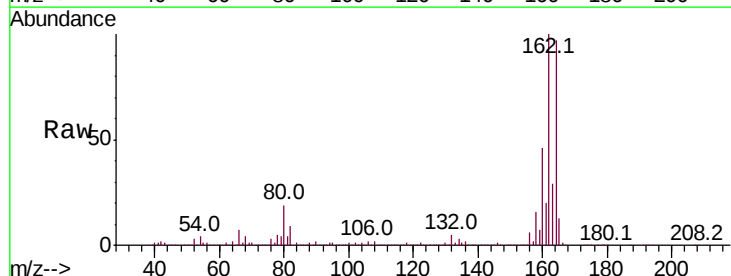
Tgt Ion:164 Resp: 924641

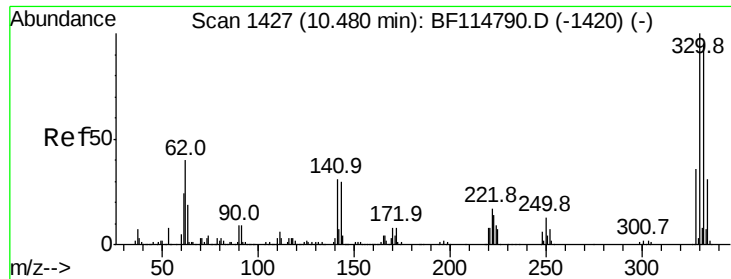
Ion Ratio Lower Upper

164 100

162 103.4 82.3 123.5

160 47.2 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 40.977 ng

RT: 10.48 min Scan# 1427

Delta R.T. -0.00 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Instrument :

BNA\_F

ClientSampleId :

FOOTING-1

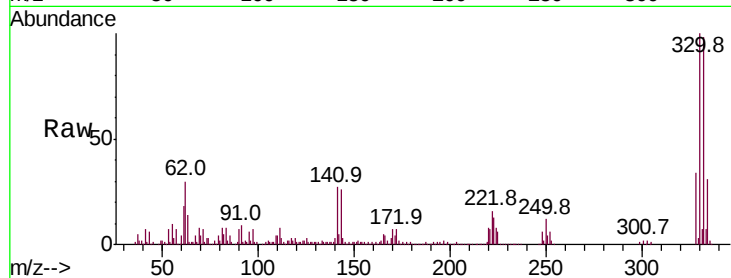
Tot Ion:330 Resp: 408311

Ion Ratio Lower Upper

330 100

332 96.9 77.3 115.9

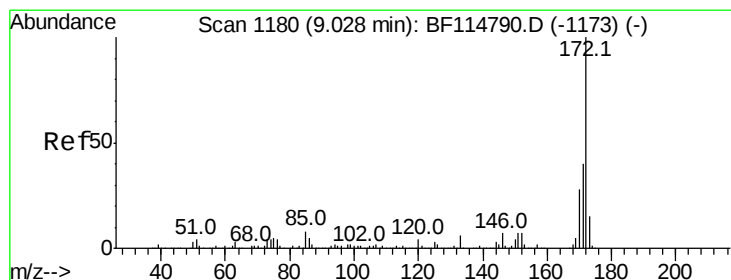
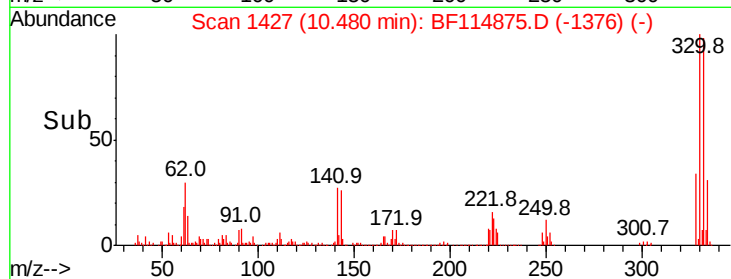
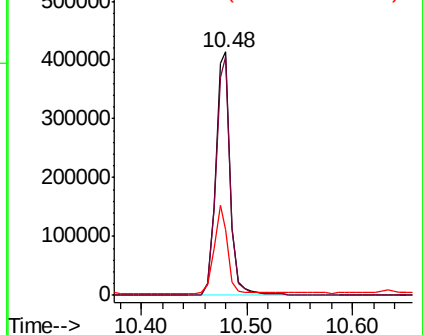
141 34.0 26.2 39.4



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: 69.422 ng

RT: 9.03 min Scan# 1180

Delta R.T. -0.00 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

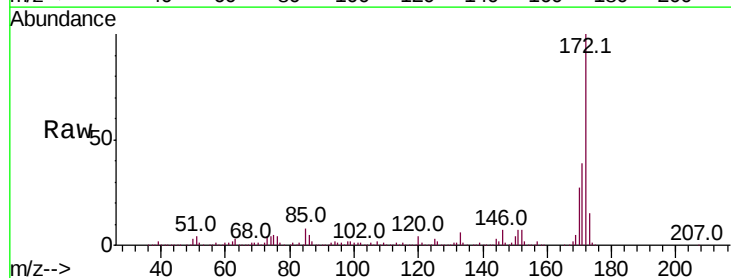
Tgt Ion:172 Resp: 3426623

Ion Ratio Lower Upper

172 100

171 39.5 32.3 48.5

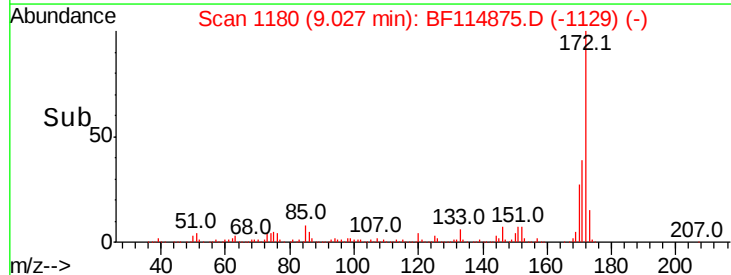
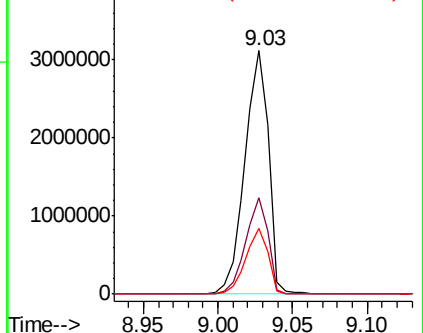
170 27.1 22.4 33.6

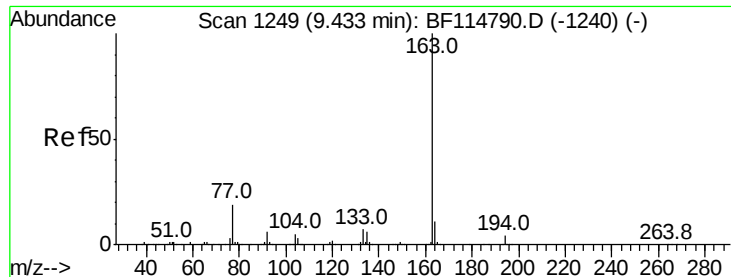


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 6.088 ng

RT: 9.42 min Scan# 1246

Delta R.T. -0.02 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Instrument :

BNA\_F

ClientSampleId :

FOOTING-1

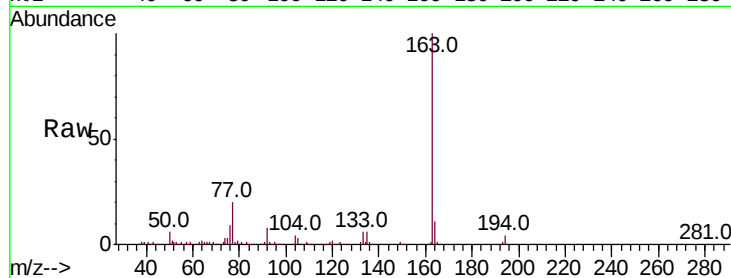
Tot Ion:163 Resp: 411135

Ion Ratio Lower Upper

163 100

194 4.0 3.4 5.2

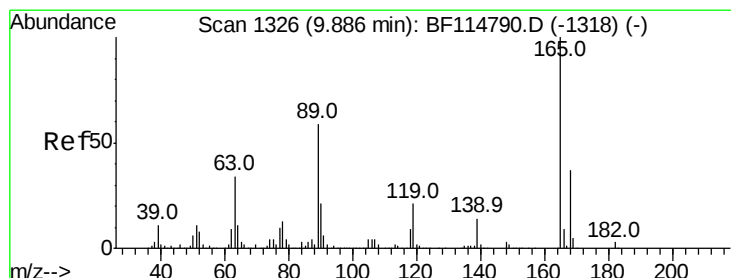
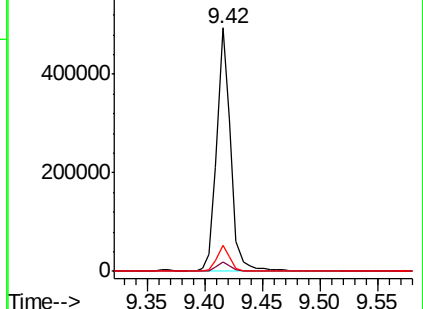
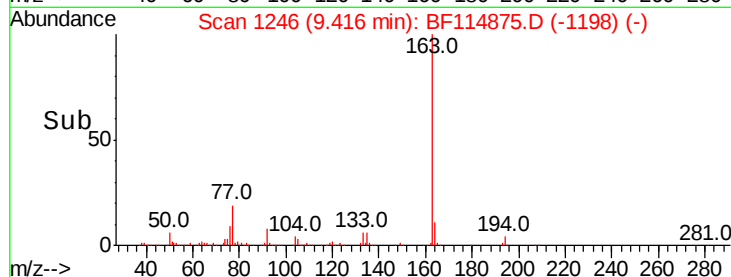
164 10.7 8.6 13.0



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



#57

2,4-Dinitrotoluene

Concen: 6.113 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.19 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Tgt Ion:165 Resp: 122047

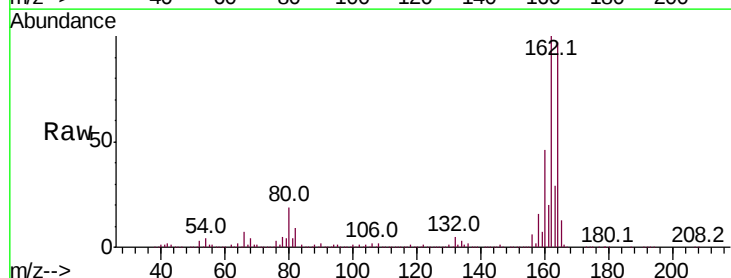
Ion Ratio Lower Upper

165 100

63 1.2 27.0 40.4#

89 1.5 47.0 70.6#

182 0.0 2.2 3.2#

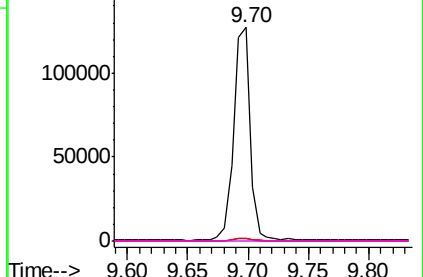
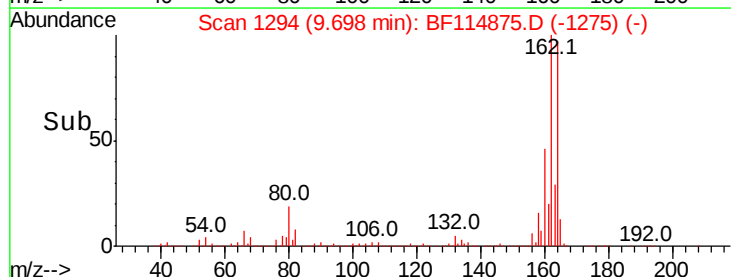


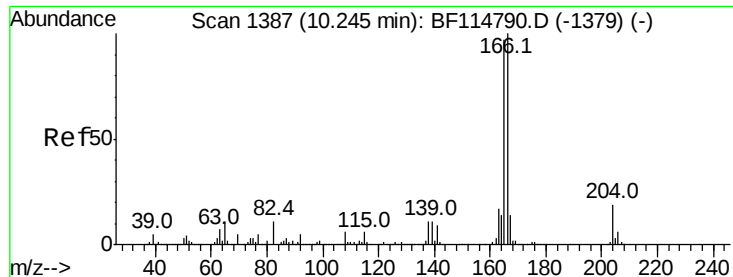
Abundance Ion 165.00 (164.70 to 165.70): E

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





#58

Fluorene

Concen: Below Cal

RT: 10.24 min Scan# 1386

Delta R.T. -0.01 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

Instrument :

BNA\_F

ClientSampled :

FOOTING-1

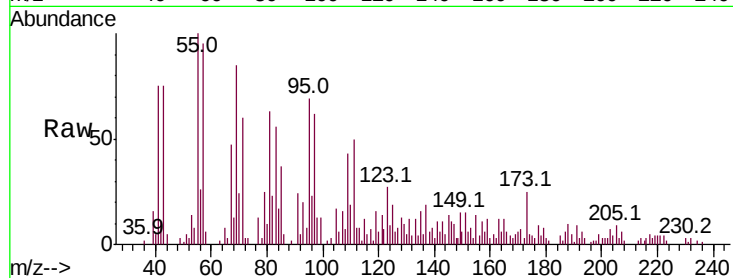
Tot Ion:166 Resp: 1314

Ion Ratio Lower Upper

166 100

165 192.9 77.9 116.9#

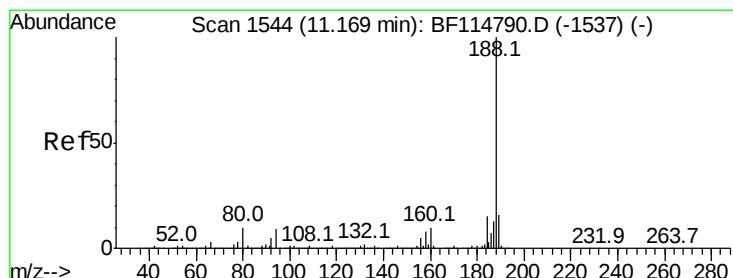
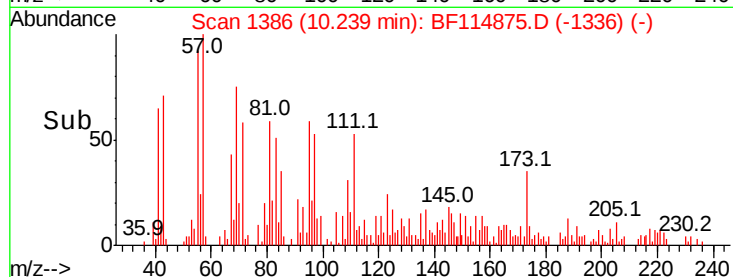
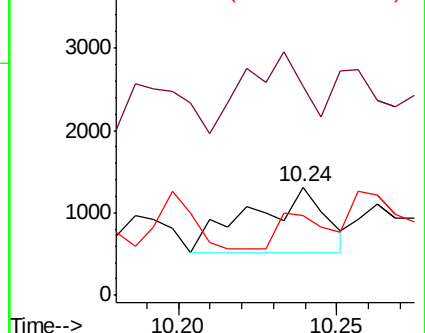
167 73.5 11.3 16.9#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.17 min Scan# 1545

Delta R.T. 0.01 min

Lab File: BF114875.D

Acq: 6 Jun 2019 21:09

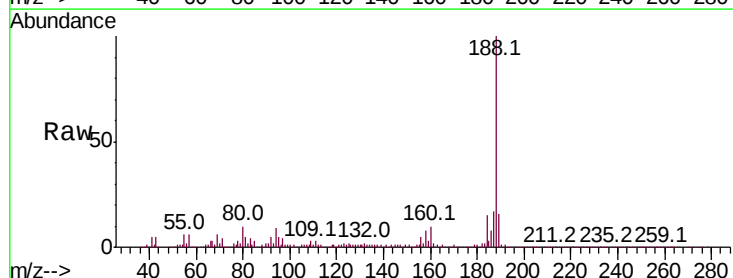
Tgt Ion:188 Resp: 1506669

Ion Ratio Lower Upper

188 100

94 9.4 7.6 11.4

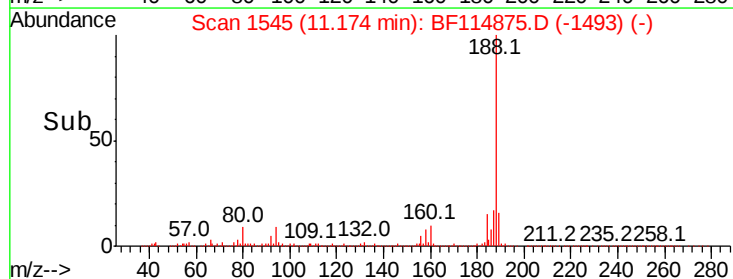
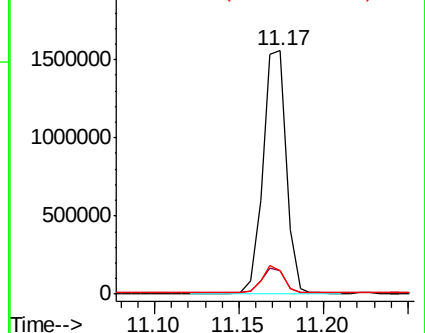
80 9.7 8.3 12.5

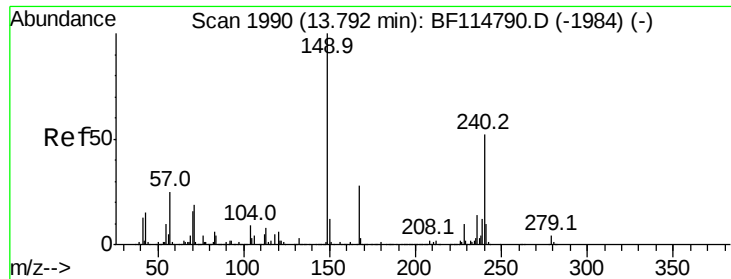


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

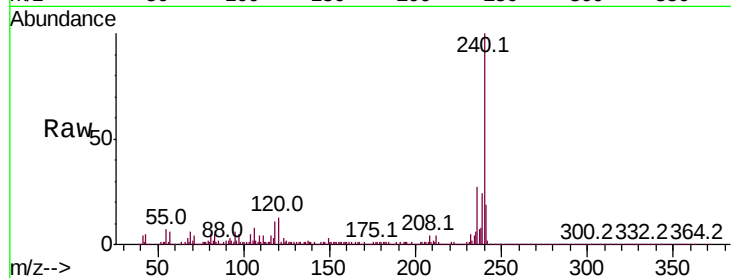




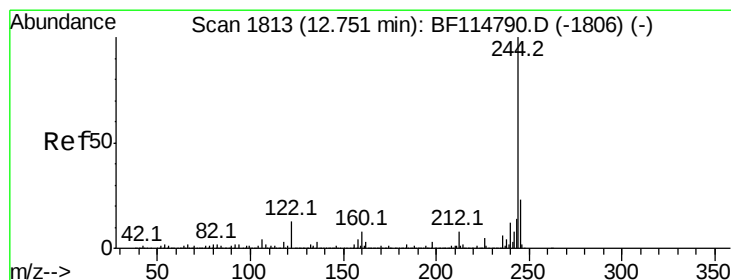
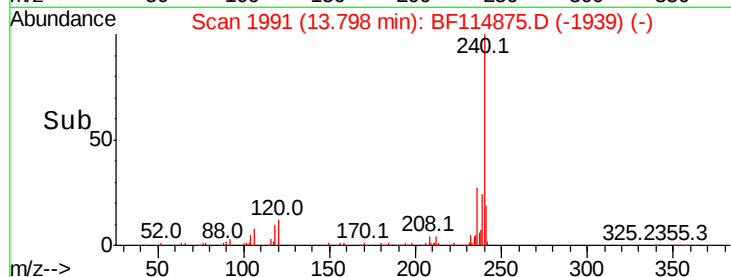
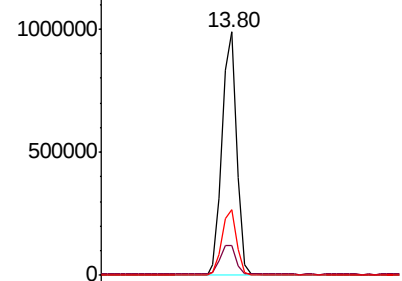
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.80 min Scan# 1991  
Delta R.T. 0.01 min  
Lab File: BF114875.D  
Acq: 6 Jun 2019 21:09

Instrument :  
BNA\_F  
ClientSampleId :  
FOOTING-1

Tot Ion:240 Resp: 931792  
Ion Ratio Lower Upper  
240 100  
120 12.5 9.0 13.4  
236 27.1 21.4 32.0

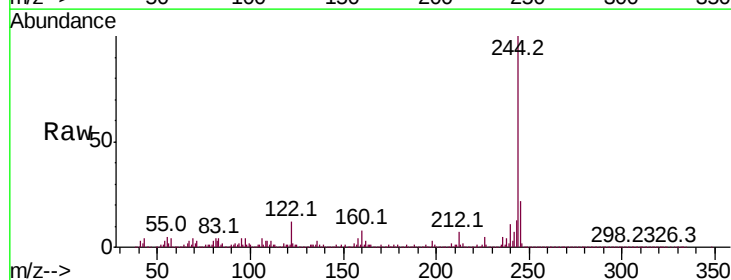


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

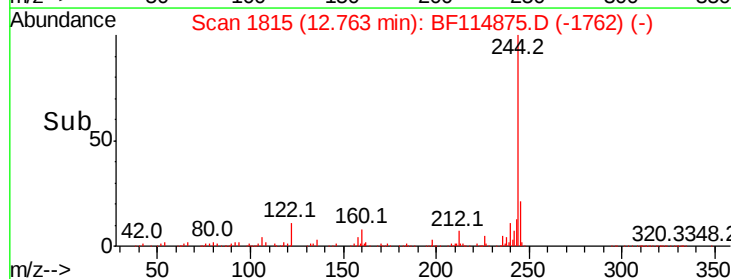
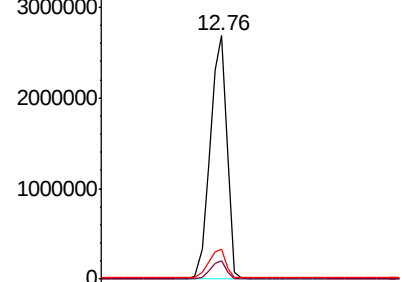


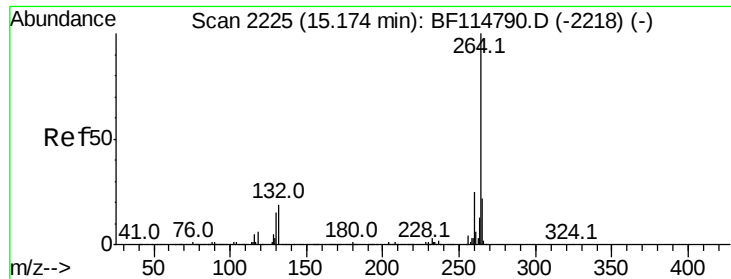
#79  
Terphenyl-d14  
Concen: 59.685 ng  
RT: 12.76 min Scan# 1815  
Delta R.T. 0.01 min  
Lab File: BF114875.D  
Acq: 6 Jun 2019 21:09

Tgt Ion:244 Resp: 2859698  
Ion Ratio Lower Upper  
244 100  
212 7.5 6.5 9.7  
122 12.0 10.5 15.7



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: 15.17 min Scan# 2225  
Delta R.T. -0.00 min  
Lab File: BF114875.D  
Acq: 6 Jun 2019 21:09

Instrument :  
BNA\_F  
ClientSampleId :  
FOOTING-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 20.1  | 30.1  |
| 265     | 22.6  | 17.7  | 26.5  |

