

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\  
 Data File : BF117898.D  
 Acq On : 20 Nov 2019 17:33  
 Operator : JU  
 Sample : K5927-09  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 21 03:07:29 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 18:36:07 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.92  | 152  | 183211   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.20  | 136  | 735444   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.97  | 164  | 386384   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.46 | 188  | 652139   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 14.11 | 240  | 384248   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.62 | 264  | 390399   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.53  | 112  | 742713   | 71.76 | ng    | 0.00     |
| 7) Phenol-d6                | 6.54  | 99   | 1007604  | 80.71 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.47  | 82   | 610331   | 49.33 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.76 | 330  | 291431   | 71.24 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.28  | 172  | 1212317  | 56.29 | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.04 | 244  | 1030476  | 49.01 | ng    | -0.01    |

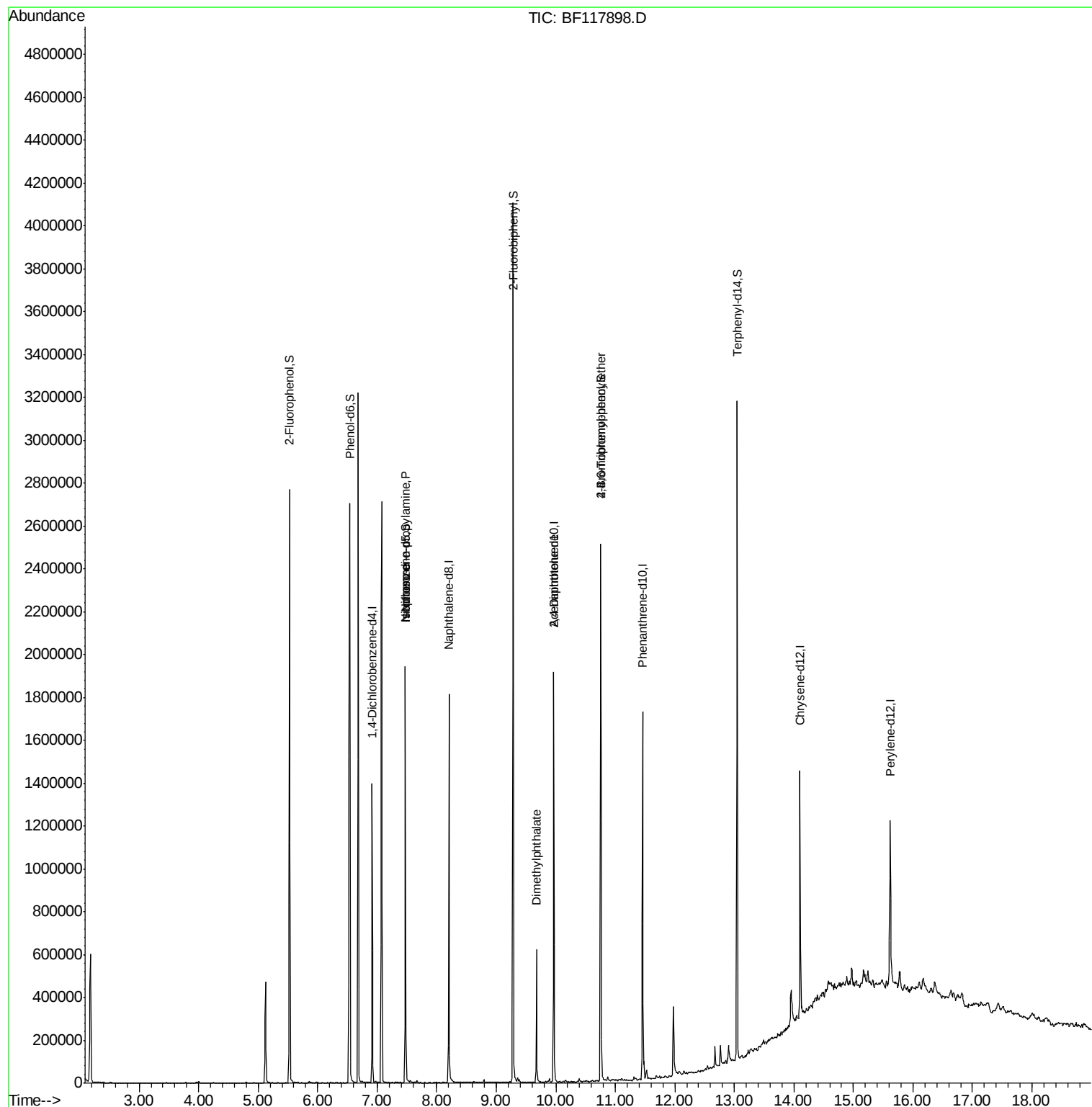
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.53  | 77   | 1799     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.47  | 70   | 83821    | 10.883    | ng    | # 77   |
| 25) Isophorone                 | 7.47  | 82   | 608112   | 26.818    | ng    | # 62   |
| 50) Dimethylphthalate          | 9.67  | 163  | 234500   | 8.655     | ng    | 97     |
| 57) 2,4-Dinitrotoluene         | 9.97  | 165  | 49783    | 6.609     | ng    | # 25   |
| 67) 4-Bromophenyl-phenylether  | 10.76 | 248  | 17645    | 2.508     | ng    | # 1    |
| 75) Fluoranthene               | 12.67 | 202  | 33002    | Below Cal |       | 98     |

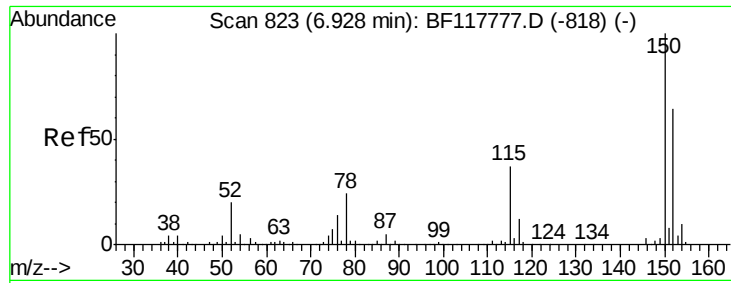
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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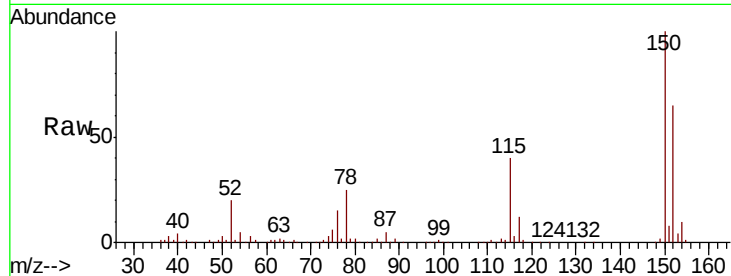


#1

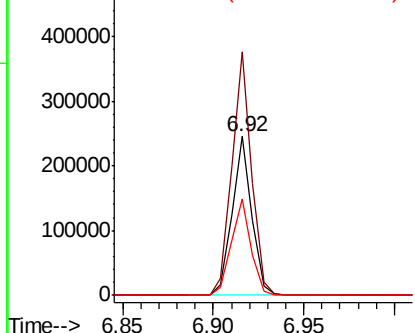
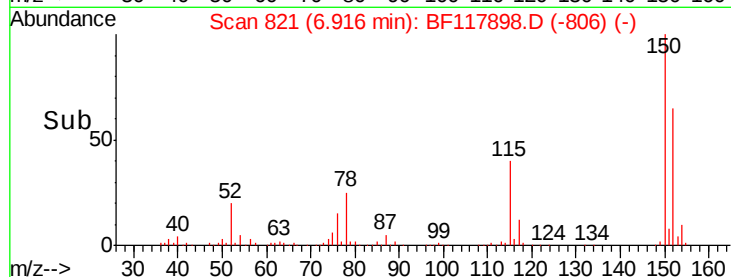
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.92 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BF117898.D  
Acq: 20 Nov 2019 17:33

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 183211  
Ion Ratio Lower Upper  
152 100  
150 153.2 125.3 187.9  
115 61.0 47.0 70.4



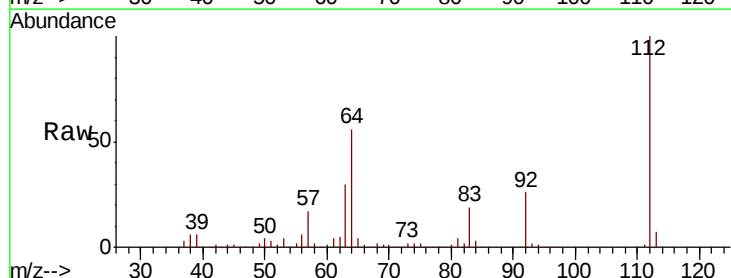
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



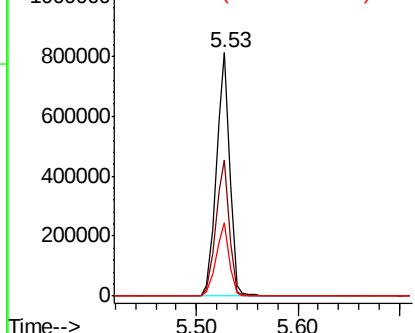
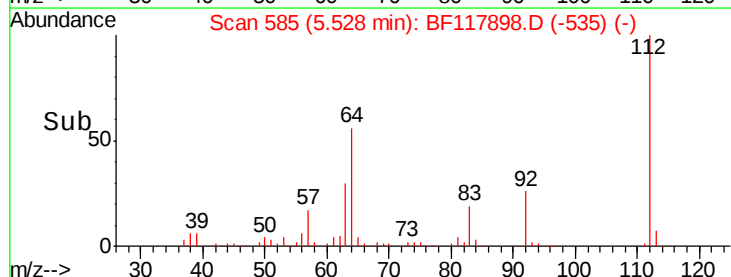
#5

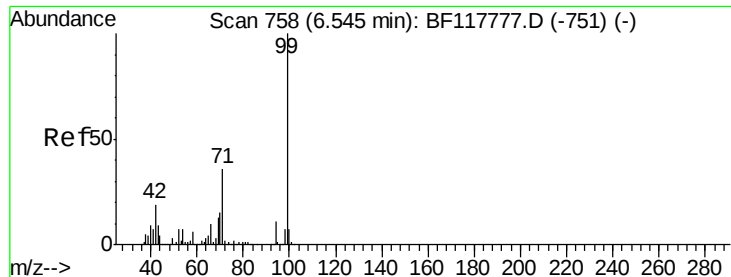
2-Fluorophenol  
Concen: 71.758 ng  
RT: 5.53 min Scan# 585  
Delta R.T. -0.01 min  
Lab File: BF117898.D  
Acq: 20 Nov 2019 17:33

Tgt Ion:112 Resp: 742713  
Ion Ratio Lower Upper  
112 100  
64 55.7 45.6 68.4  
63 30.0 24.1 36.1



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: 80.711 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

Instrument :

BNA\_F

ClientSampleId :

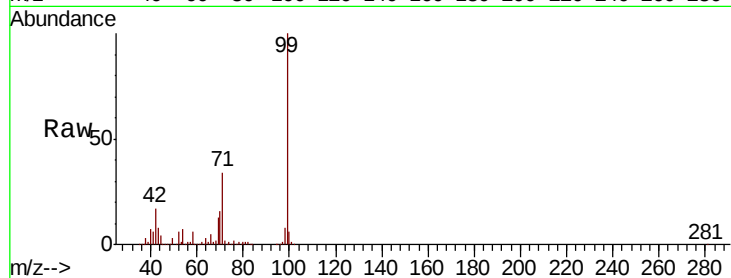
Tot Ion: 99 Resp: 1007604

Ion Ratio Lower Upper

99 100

42 16.8 14.9 22.3

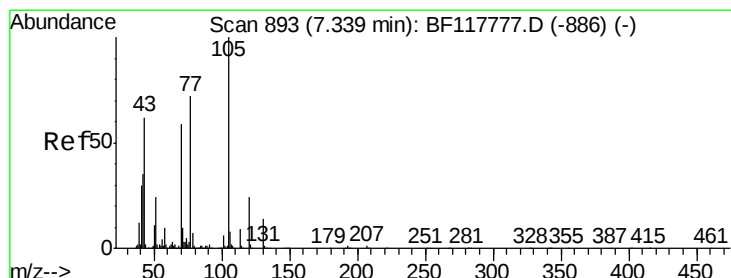
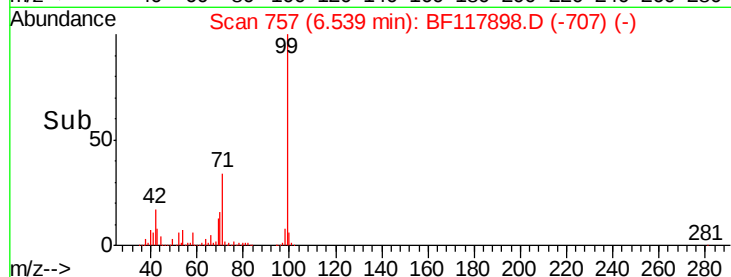
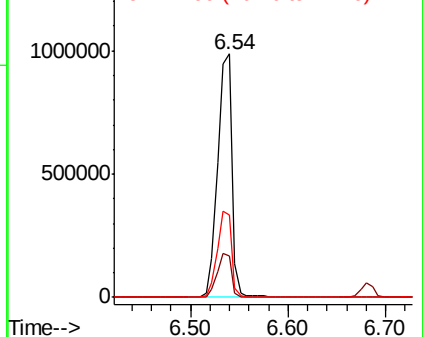
71 33.8 28.6 43.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 10.883 ng

RT: 7.47 min Scan# 916

Delta R.T. 0.14 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

Tgt Ion: 70 Resp: 83821

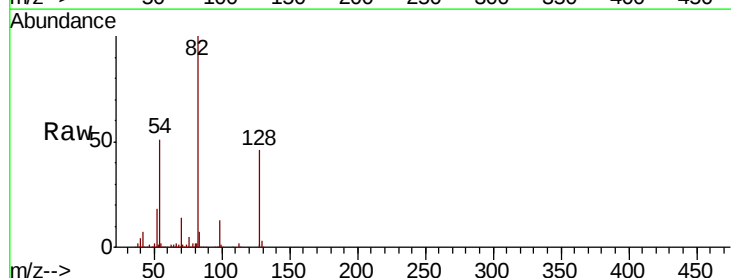
Ion Ratio Lower Upper

70 100

42 49.0 47.4 71.2

101 0.0 8.4 12.6#

130 2.4 18.8 28.2#

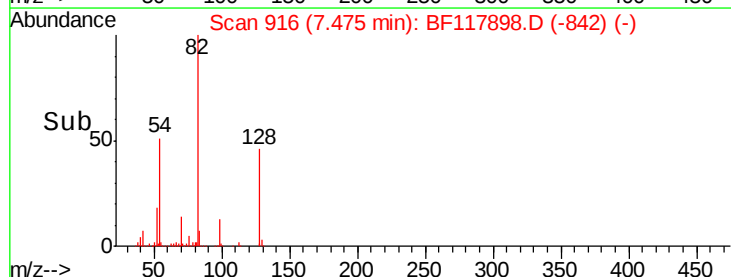
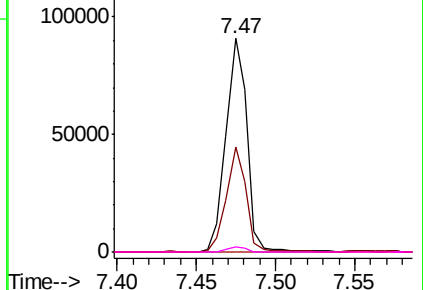


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

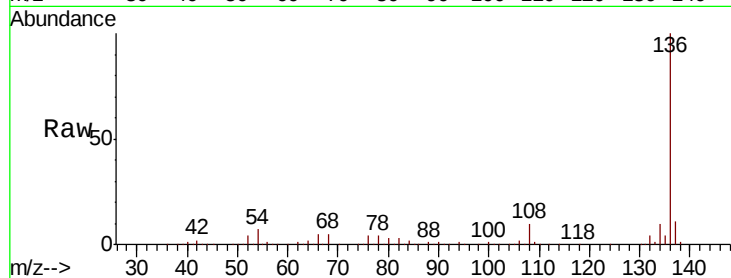




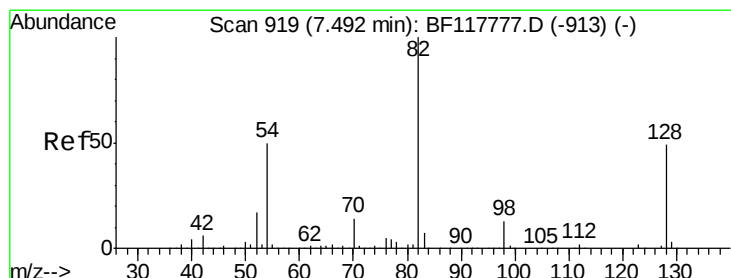
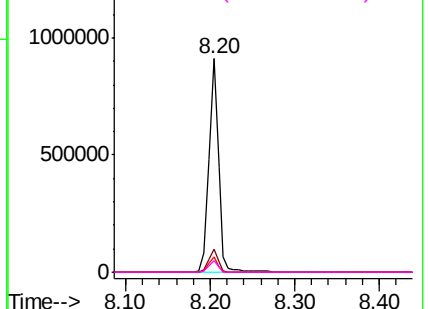
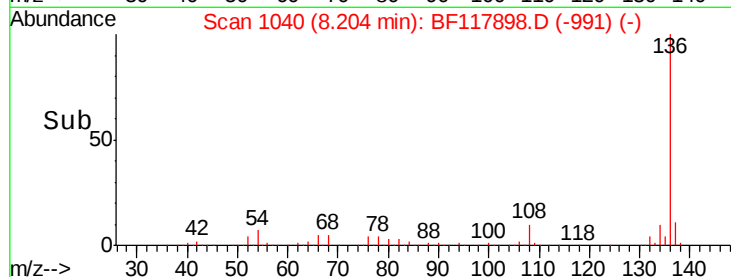
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BF117898.D  
Acq: 20 Nov 2019 17:33

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 735444   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.0  | 9.0 13.4 |
| 54          | 6.9   | 5.4 8.2  |
| 68          | 5.3   | 4.3 6.5  |

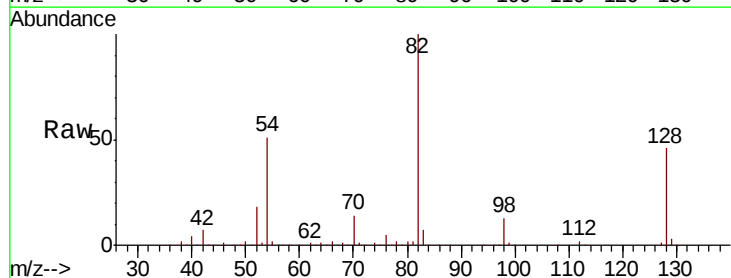


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

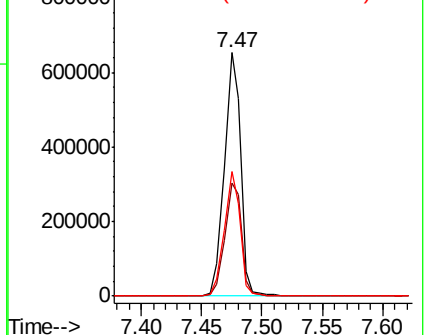
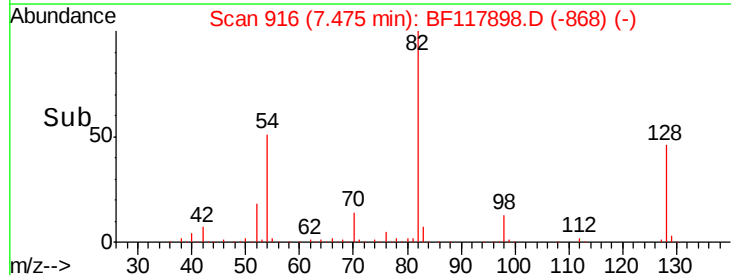


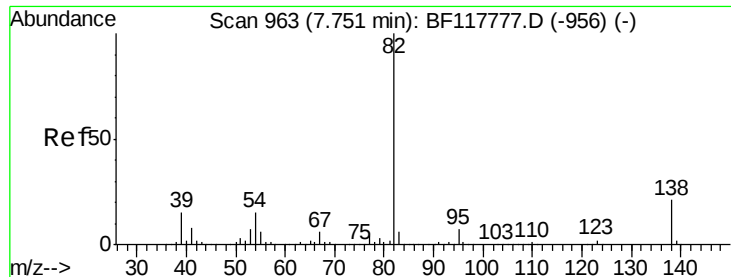
#23  
Nitrobenzene-d5  
Concen: 49.333 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: BF117898.D  
Acq: 20 Nov 2019 17:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 610331    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 46.3  | 38.9 58.3 |
| 54          | 51.0  | 39.8 59.6 |



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

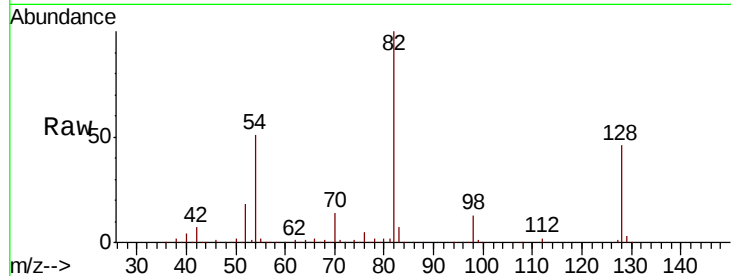




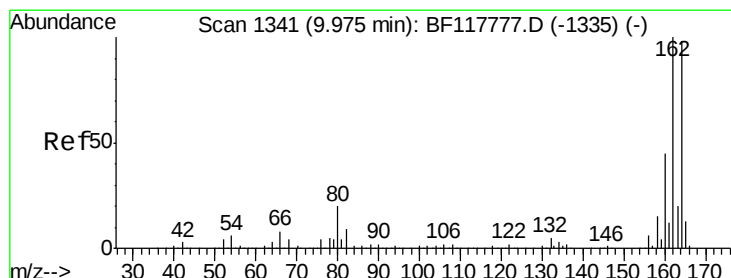
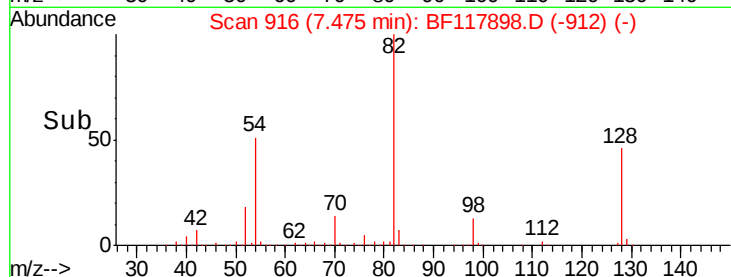
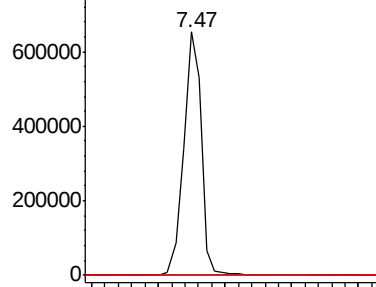
#25  
Isophorone  
Concen: 26.818 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.28 min  
Lab File: BF117898.D  
Acq: 20 Nov 2019 17:33

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 608112  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.8 8.8#  
138 0.0 16.5 24.7#

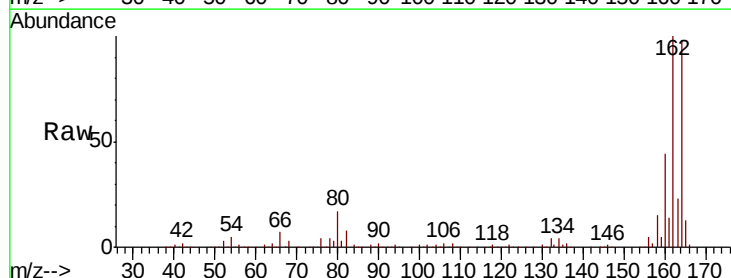


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

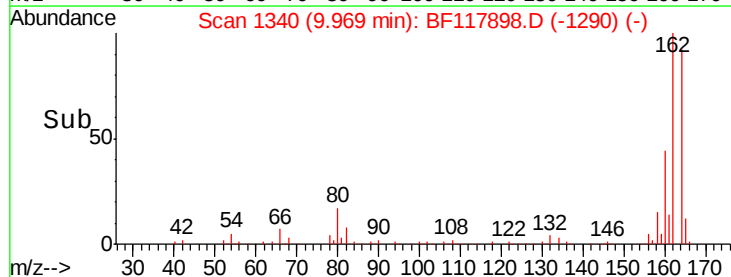
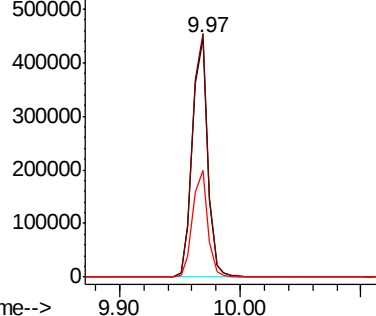


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.97 min Scan# 1340  
Delta R.T. -0.01 min  
Lab File: BF117898.D  
Acq: 20 Nov 2019 17:33

Tgt Ion: 164 Resp: 386384  
Ion Ratio Lower Upper  
164 100  
162 101.8 81.3 121.9  
160 44.7 36.6 55.0



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: 71.244 ng

RT: 10.76 min Scan# 1474

Delta R.T. -0.01 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

Instrument :

BNA\_F

ClientSampled :

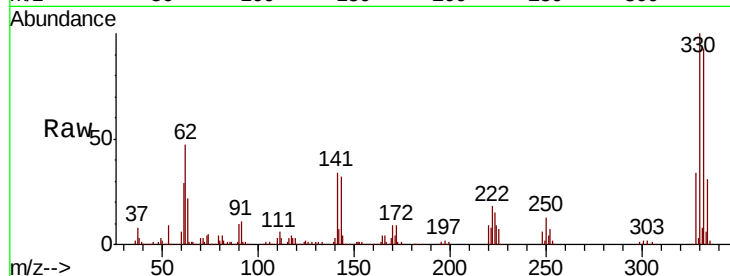
Tot Ion:330 Resp: 291431

Ion Ratio Lower Upper

330 100

332 95.7 76.7 115.1

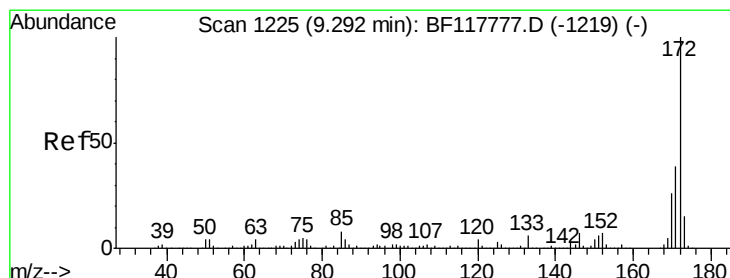
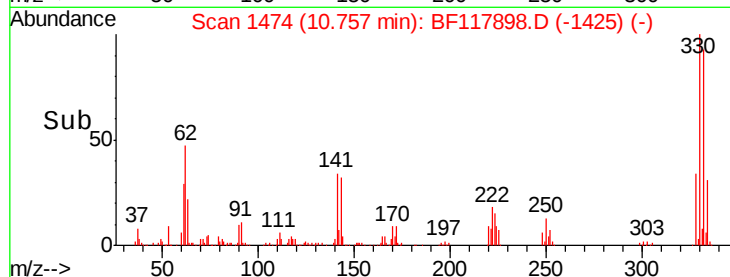
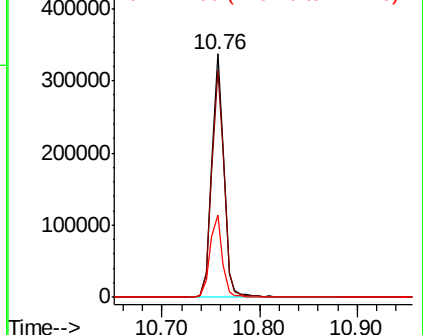
141 34.4 27.7 41.5



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: 56.290 ng

RT: 9.28 min Scan# 1223

Delta R.T. -0.01 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

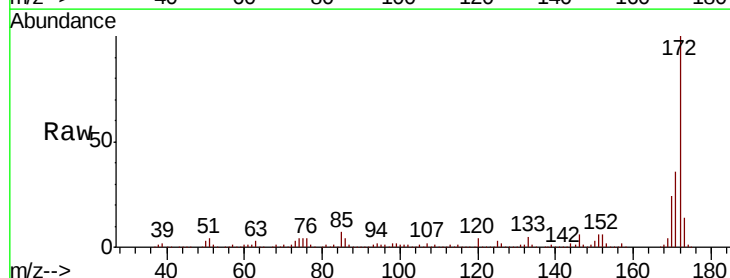
Tgt Ion:172 Resp: 1212317

Ion Ratio Lower Upper

172 100

171 35.9 30.9 46.3

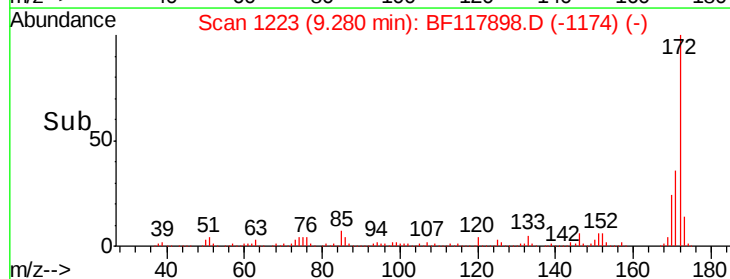
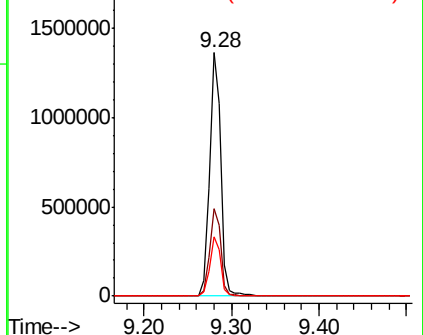
170 24.4 21.0 31.4

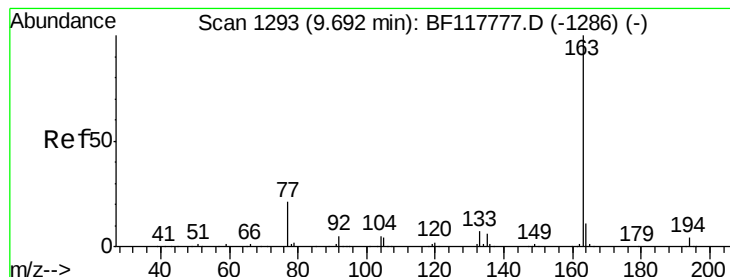


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 8.655 ng

RT: 9.67 min Scan# 1290

Delta R.T. -0.02 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

Instrument :

BNA\_F

ClientSampleId :

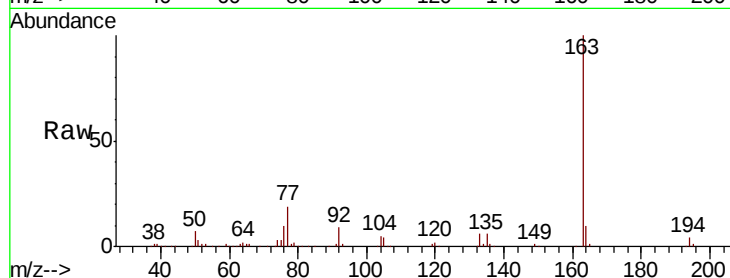
Tot Ion:163 Resp: 234500

Ion Ratio Lower Upper

163 100

194 3.8 3.3 4.9

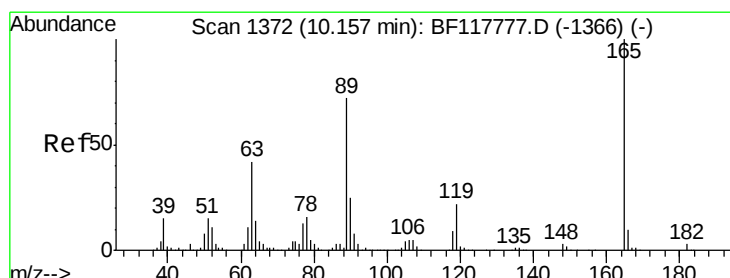
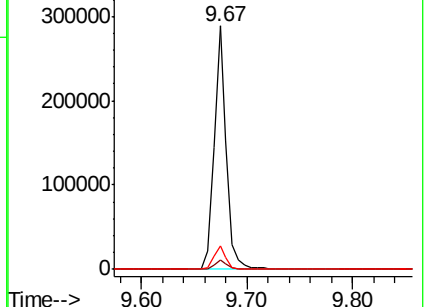
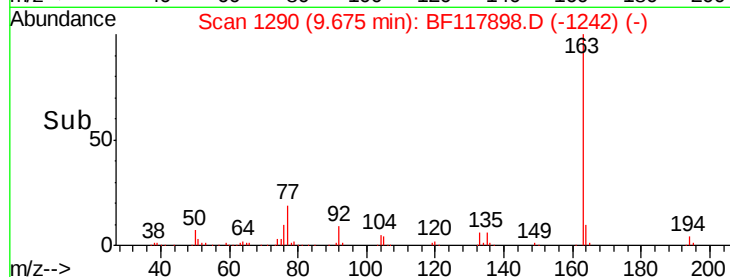
164 9.7 8.7 13.1



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: 6.609 ng

RT: 9.97 min Scan# 1340

Delta R.T. -0.19 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

Tgt Ion:165 Resp: 49783

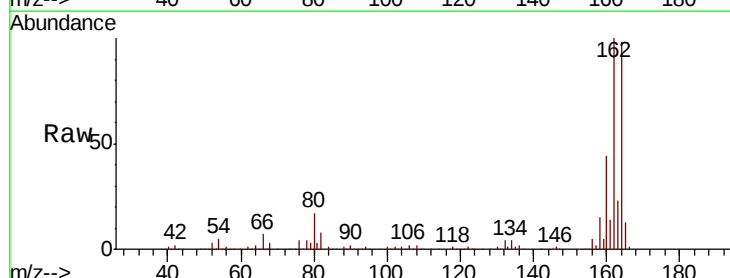
Ion Ratio Lower Upper

165 100

63 1.3 33.7 50.5#

89 1.4 57.3 85.9#

182 0.0 2.3 3.5#

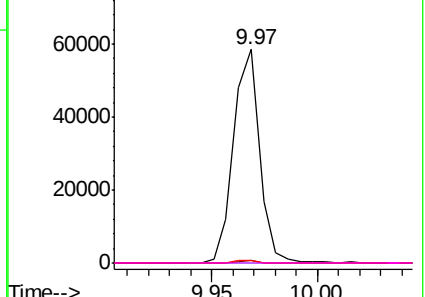
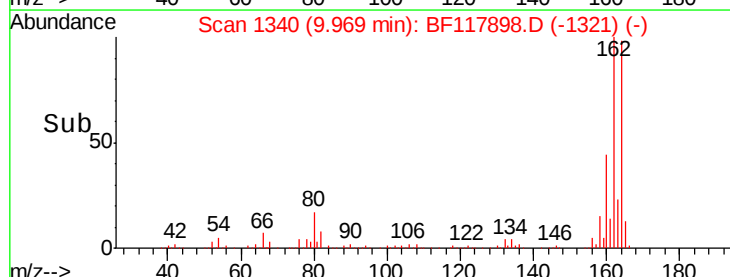


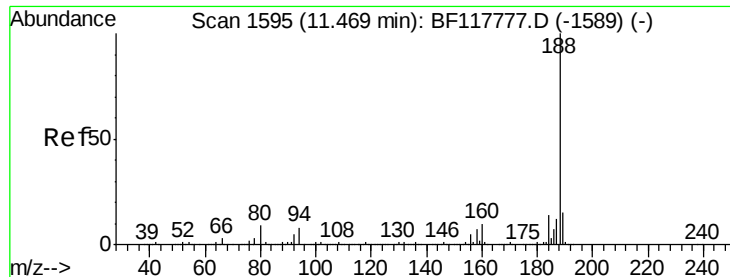
Abundance Ion 165.00 (164.70 to 165.70): E

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

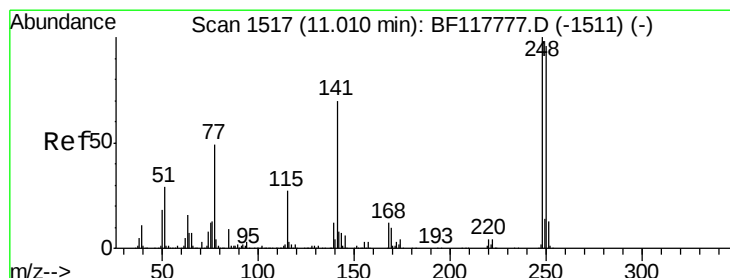
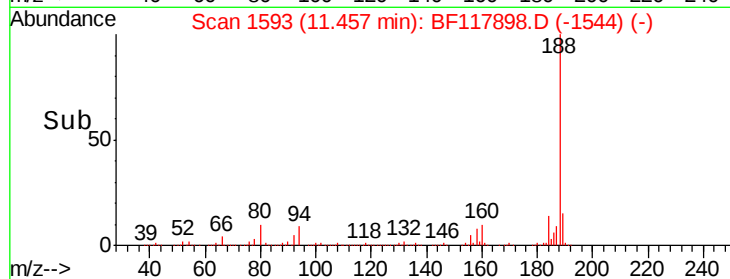
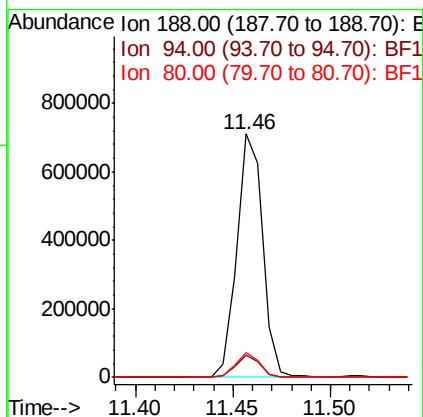
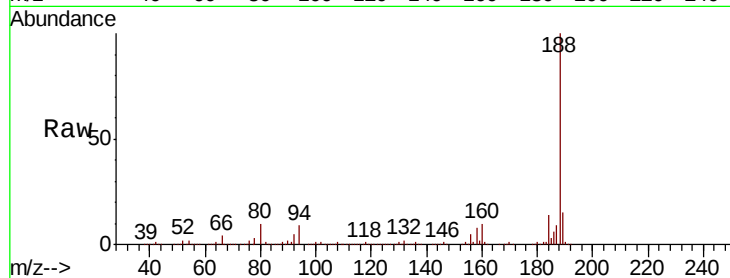




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.46 min Scan# 1593  
 Delta R.T. -0.01 min  
 Lab File: BF117898.D  
 Acq: 20 Nov 2019 17:33

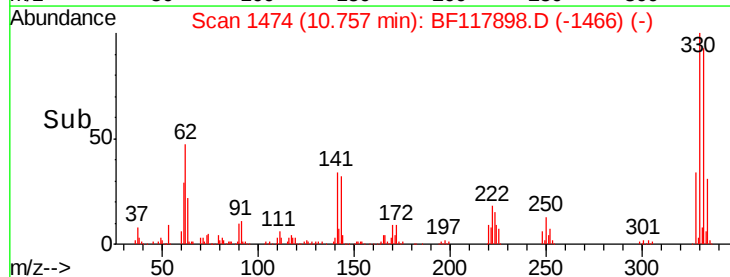
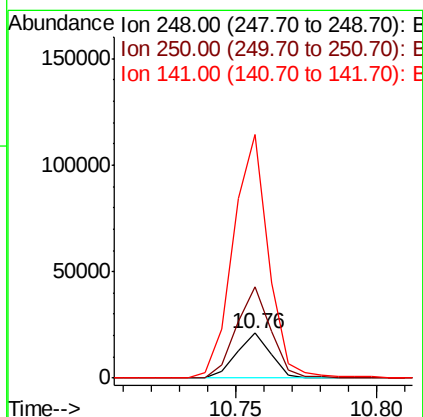
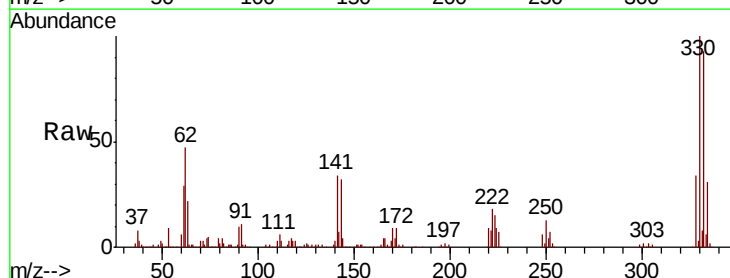
Instrument :  
 BNA\_F  
 ClientSampleId :

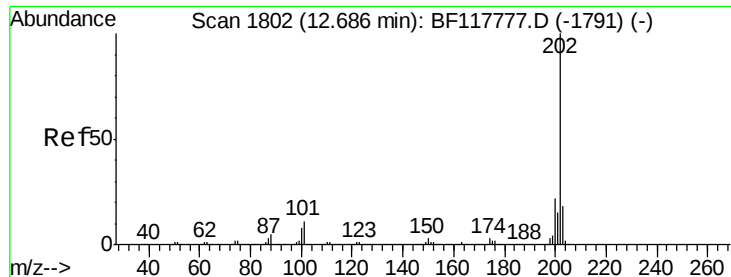
Tot Ion:188 Resp: 652139  
 Ion Ratio Lower Upper  
 188 100  
 94 9.1 6.6 10.0  
 80 10.0 7.2 10.8



#67  
 4-Bromophenyl-phenylether  
 Concen: 2.508 ng  
 RT: 10.76 min Scan# 1474  
 Delta R.T. -0.25 min  
 Lab File: BF117898.D  
 Acq: 20 Nov 2019 17:33

Tgt Ion:248 Resp: 17645  
 Ion Ratio Lower Upper  
 248 100  
 250 202.4 76.6 115.0#  
 141 542.7 55.9 83.9#





#75

Fluoranthene

Concen: Below Cal

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

Instrument :

BNA\_F

ClientSampled :

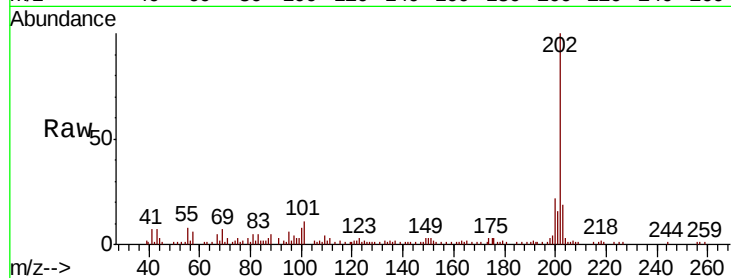
Tot Ion:202 Resp: 33002

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.1

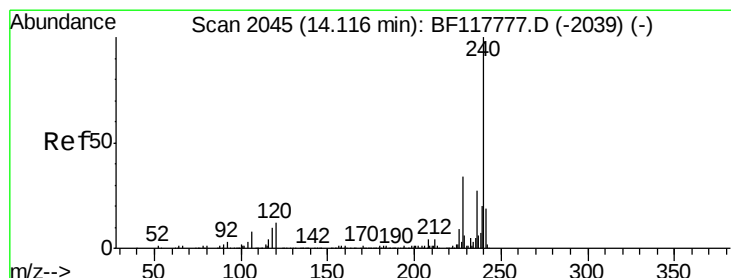
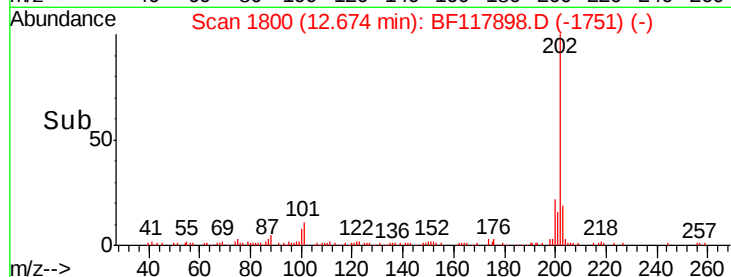
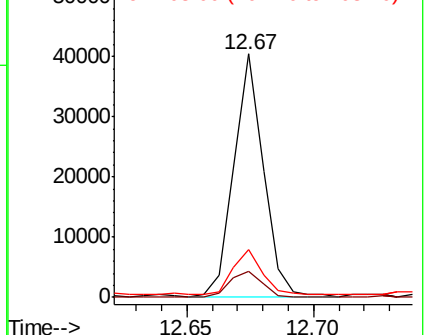
203 19.4 0.0 38.2



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: 14.11 min Scan# 2044

Delta R.T. -0.01 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

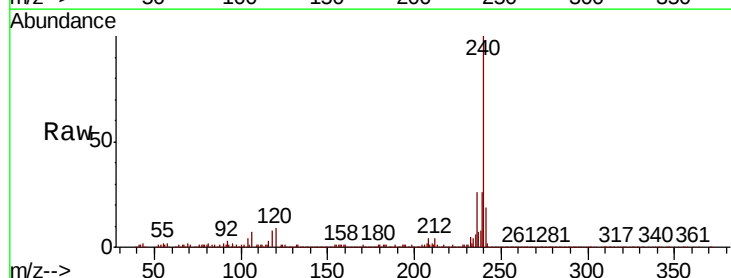
Tgt Ion:240 Resp: 384248

Ion Ratio Lower Upper

240 100

120 9.3 9.5 14.3#

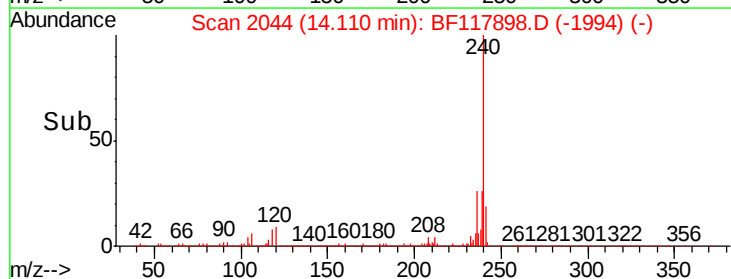
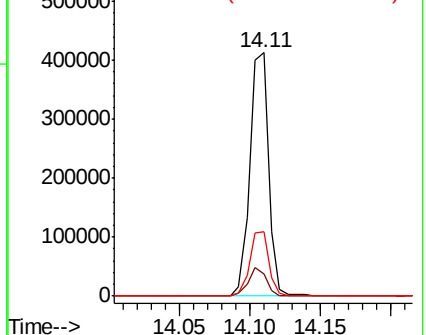
236 26.4 21.3 31.9

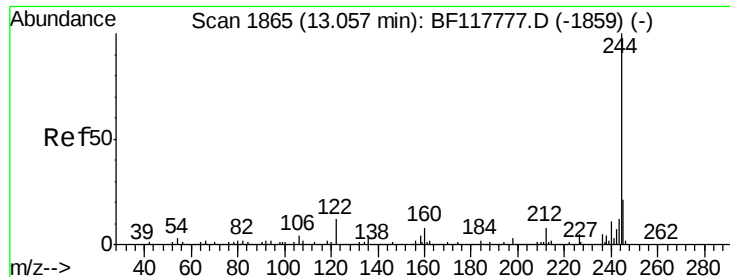


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 49.013 ng

RT: 13.04 min Scan# 1863

Delta R.T. -0.01 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

Instrument :

BNA\_F

ClientSampled :

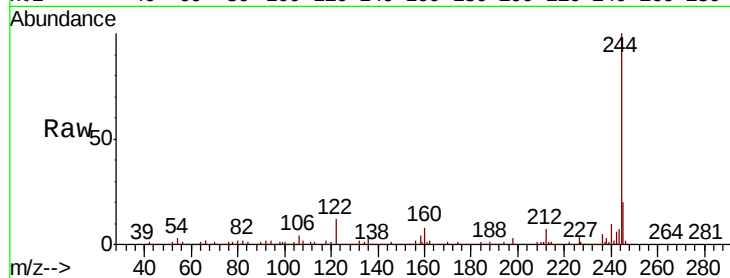
Tot Ion:244 Resp: 1030476

Ion Ratio Lower Upper

244 100

212 7.2 6.3 9.5

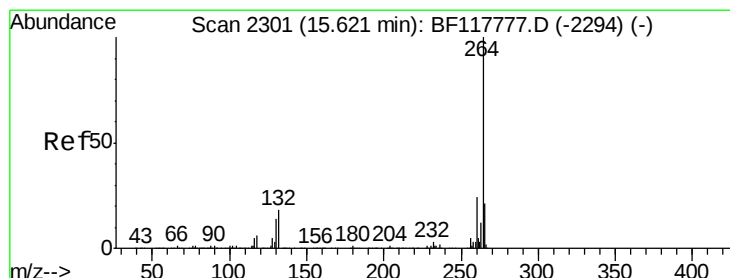
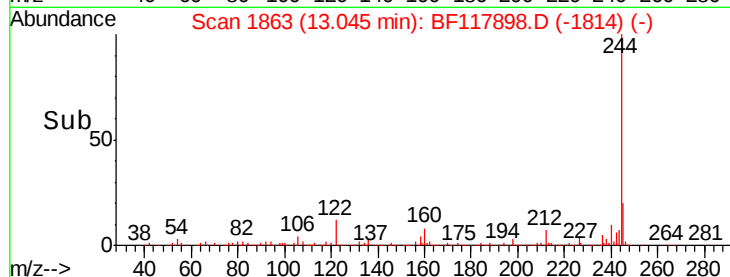
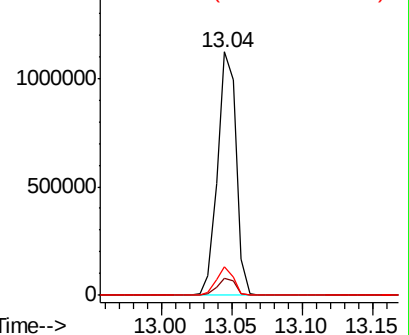
122 11.8 9.4 14.2



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: 15.62 min Scan# 2300

Delta R.T. -0.01 min

Lab File: BF117898.D

Acq: 20 Nov 2019 17:33

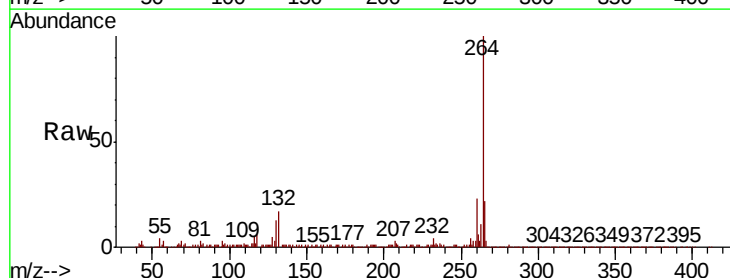
Tgt Ion:264 Resp: 390399

Ion Ratio Lower Upper

264 100

260 23.5 19.4 29.0

265 21.6 17.1 25.7



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

