

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF020519\  
 Data File : BF112409.D  
 Acq On : 5 Feb 2019 21:22  
 Operator : JU/SJ  
 Sample : K1341-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-020419-A

Quant Time: Feb 05 22:31:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

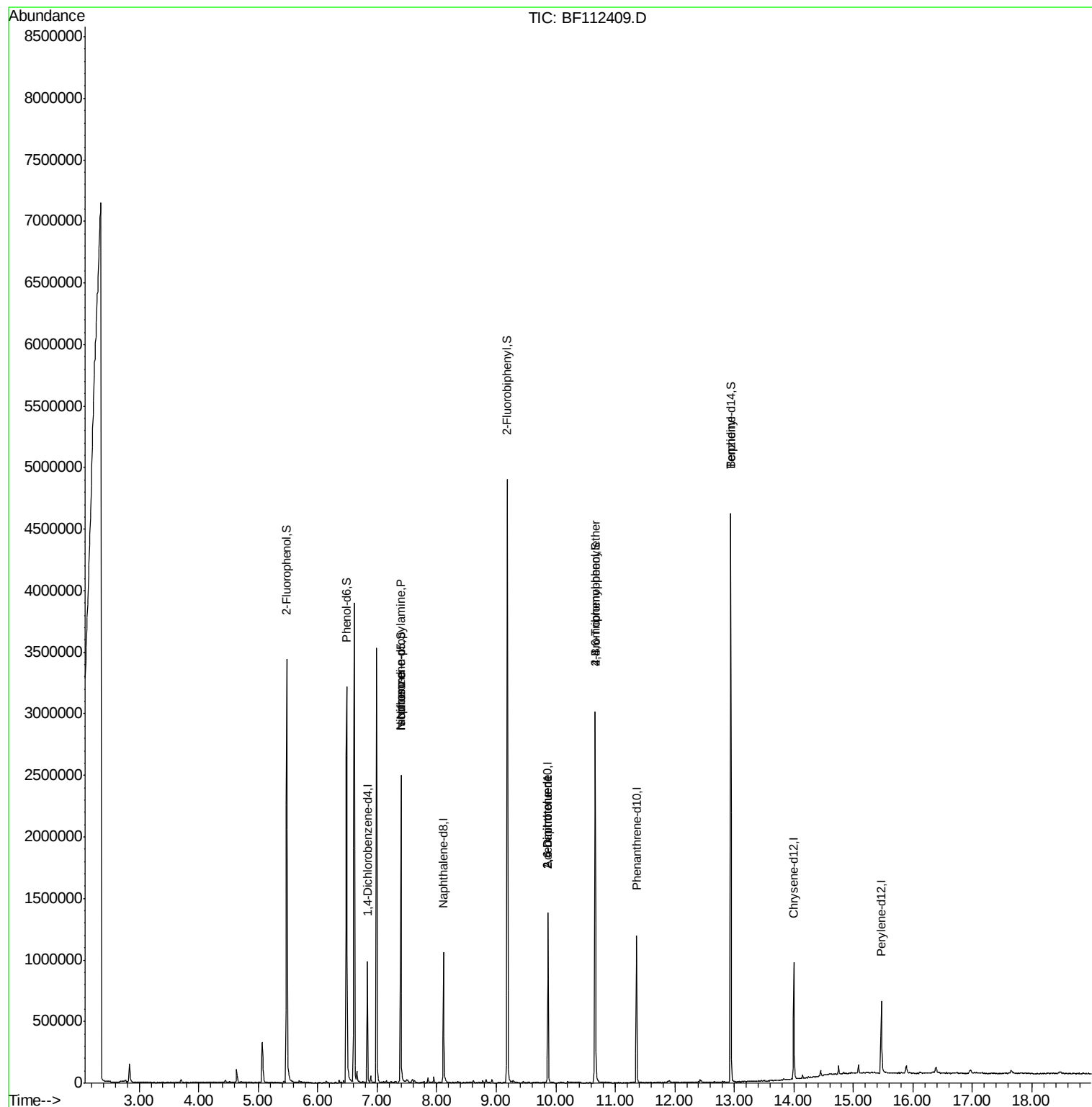
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 146530   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.12  | 136  | 556921   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.87  | 164  | 259454   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 453089   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 14.00 | 240  | 318365   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.47 | 264  | 273806   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 1002936  | 145.38 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.49  | 99   | 1168169  | 121.86 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 821425   | 84.99  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 387014   | 128.15 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 1669045  | 90.98  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.94 | 244  | 1496245  | 88.52  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 113046   | 17.103 | ng    | # 75     |
| 25) Isophorone                 | 7.40  | 82   | 821411   | 54.172 | ng    | # 63     |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 32802    | 7.266  | ng    | # 34     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 32802    | 5.707  | ng    | # 32     |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 23199    | 4.353  | ng    | # 1      |
| 77) Benzidine                  | 12.94 | 184  | 19555    | 2.232  | ng    | # 95     |

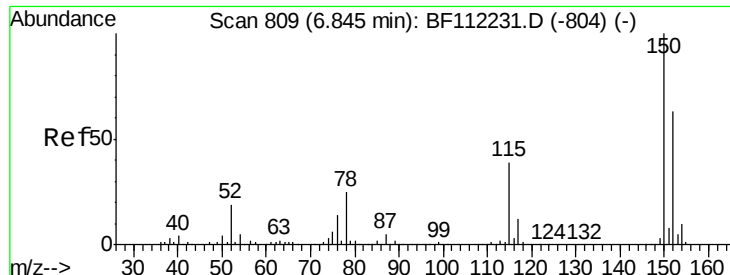
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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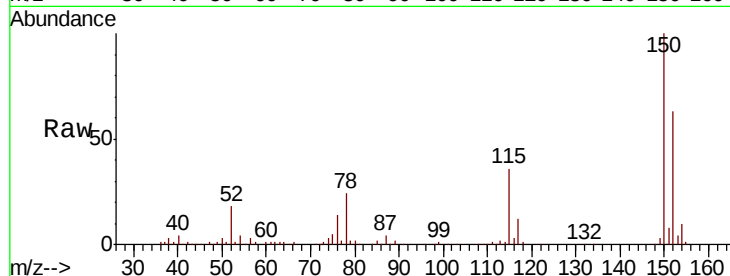


#1

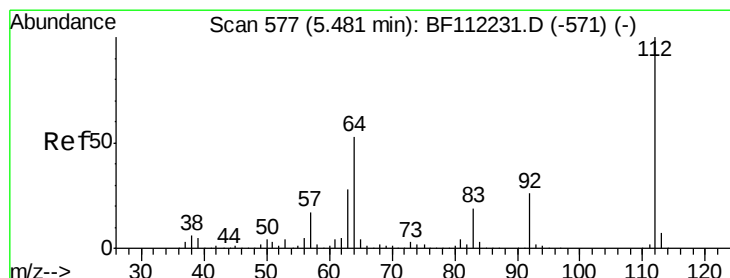
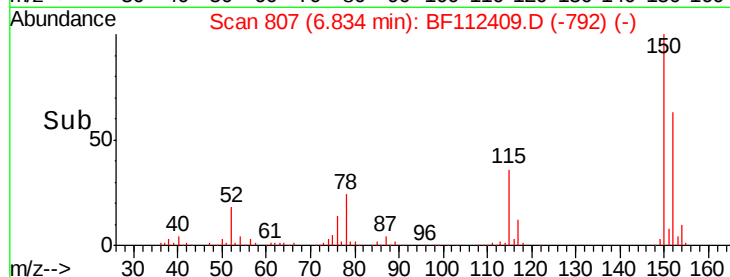
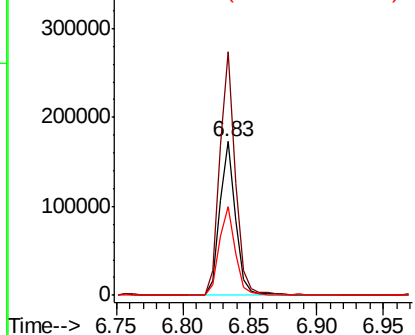
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.83 min Scan# 807  
 Delta R.T. -0.01 min  
 Lab File: BF112409.D  
 Acq: 5 Feb 2019 21:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-020419-A

Tgt Ion:152 Resp: 146530  
 Ion Ratio Lower Upper  
 152 100  
 150 158.1 127.4 191.0  
 115 57.7 45.5 68.3



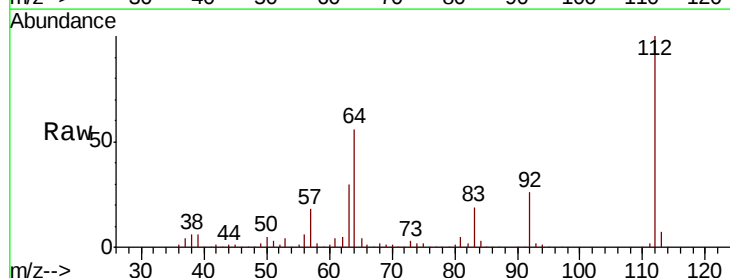
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



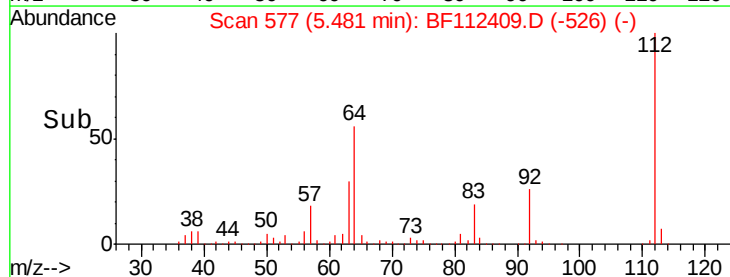
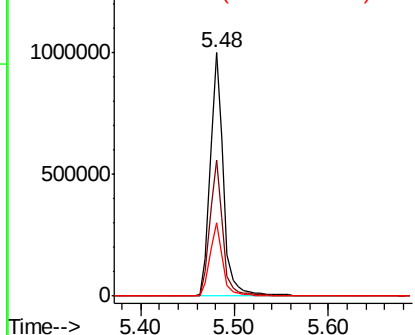
#5

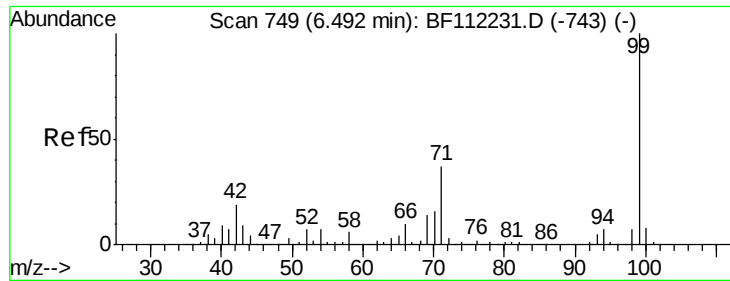
2-Fluorophenol  
 Concen: 145.383 ng  
 RT: 5.48 min Scan# 577  
 Delta R.T. 0.00 min  
 Lab File: BF112409.D  
 Acq: 5 Feb 2019 21:22

Tgt Ion:112 Resp: 1002936  
 Ion Ratio Lower Upper  
 112 100  
 64 55.8 45.7 68.5  
 63 30.1 23.6 35.4



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: 121.863 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

Instrument :

BNA\_F

ClientSampleId :

HR-05-020419-A

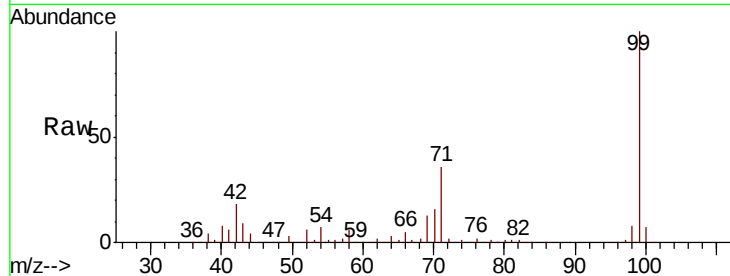
Tgt Ion: 99 Resp: 1168169

Ion Ratio Lower Upper

99 100

42 18.2 15.1 22.7

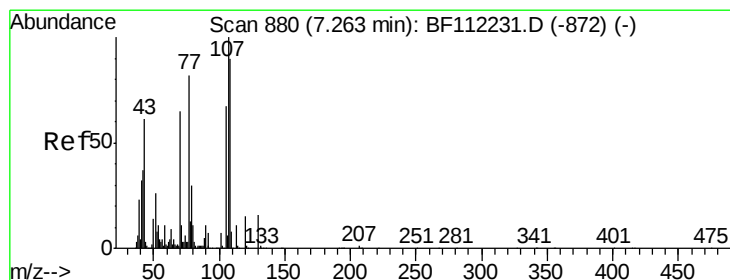
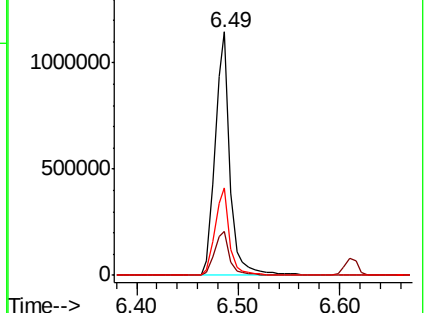
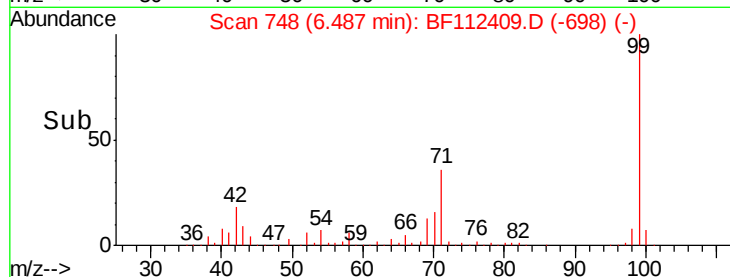
71 35.8 26.9 40.3



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: 17.103 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.14 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

Tgt Ion: 70 Resp: 113046

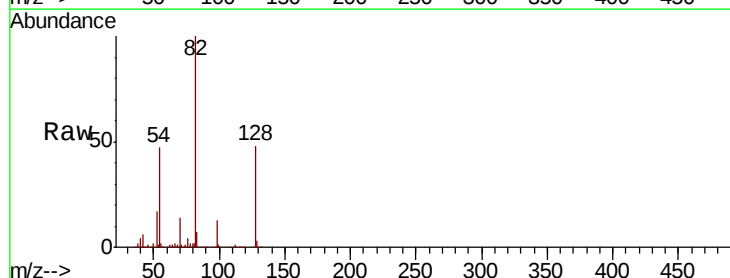
Ion Ratio Lower Upper

70 100

42 46.1 47.6 71.4#

101 0.0 7.9 11.9#

130 2.3 18.4 27.6#

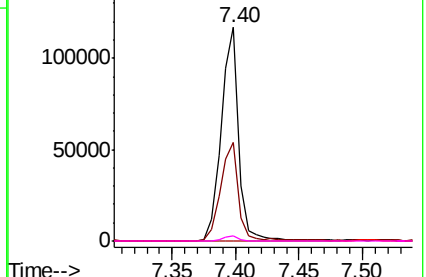
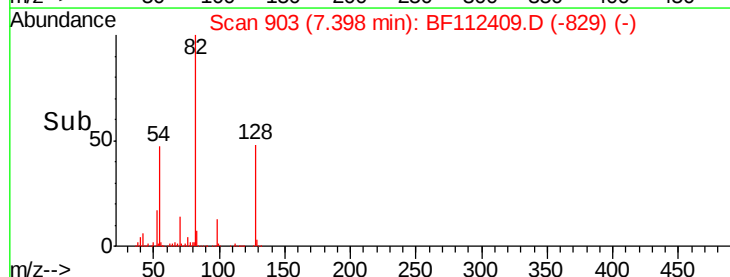


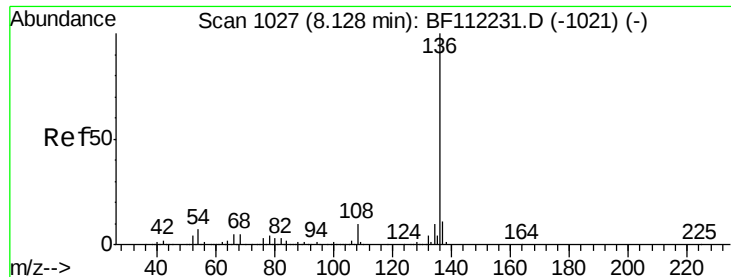
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

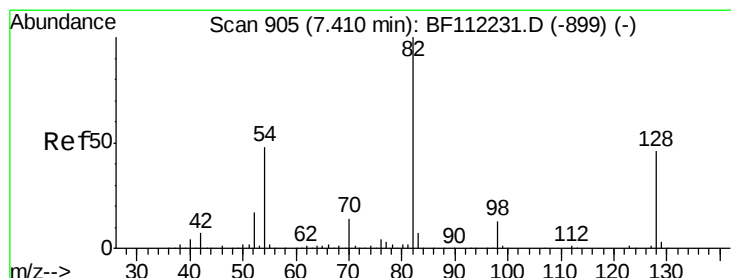
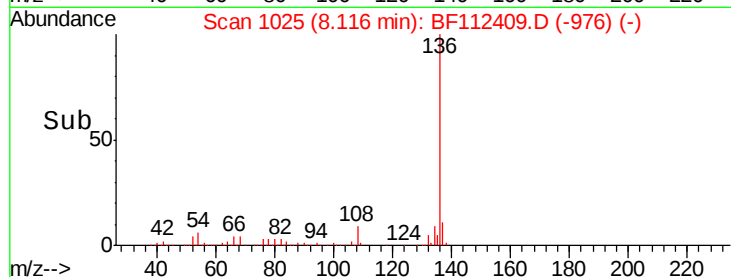
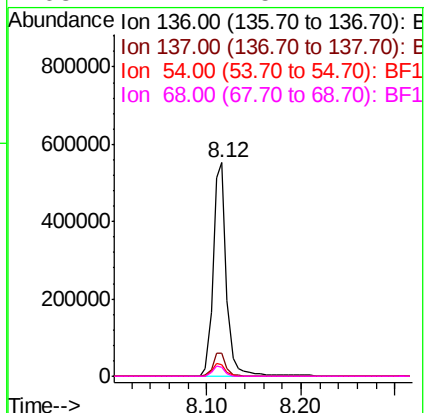
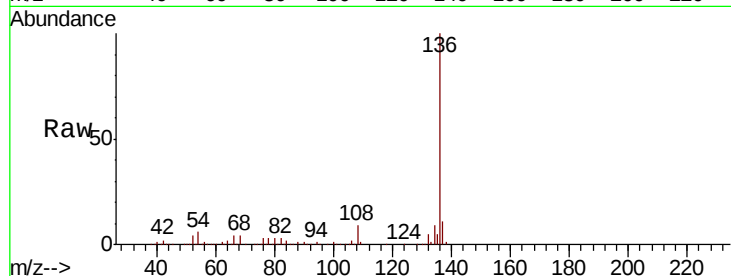




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF112409.D  
Acq: 5 Feb 2019 21:22

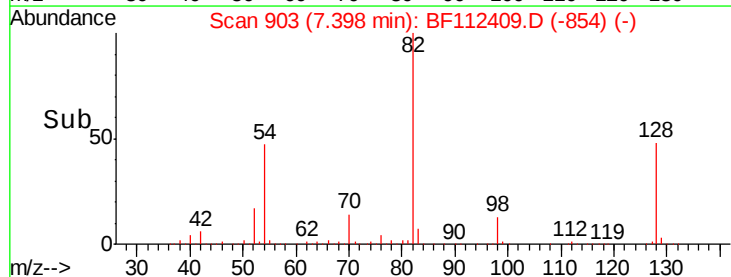
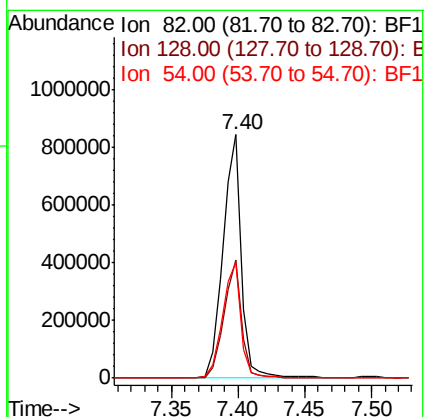
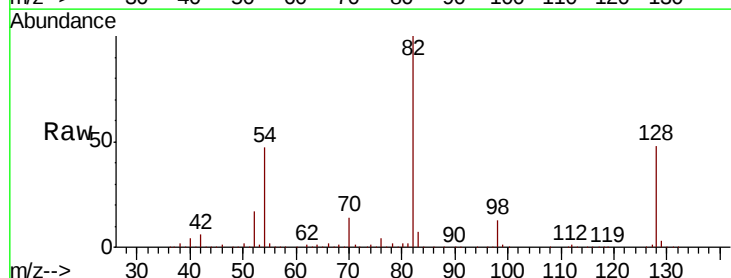
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-020419-A

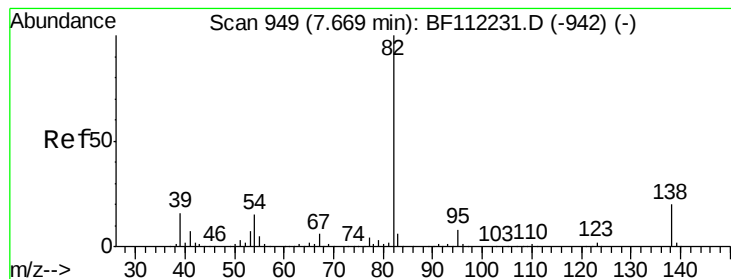
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 556921 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.1   | 13.7   |
| 54       | 5.6   | 5.9   | 8.9#   |
| 68       | 4.4   | 5.1   | 7.7#   |



#23  
Nitrobenzene-d5  
Concen: 84.986 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.01 min  
Lab File: BF112409.D  
Acq: 5 Feb 2019 21:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 821425 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 48.4  | 37.8  | 56.8   |
| 54       | 47.4  | 39.7  | 59.5   |





#25

Isophorone

Concen: 54.172 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.27 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

Instrument :

BNA\_F

ClientSampleId :

HR-05-020419-A

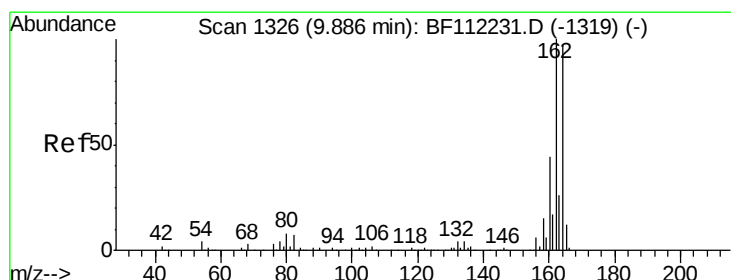
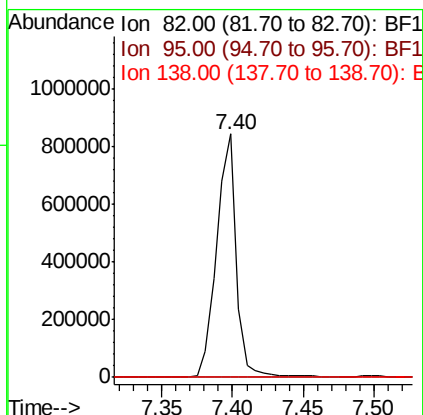
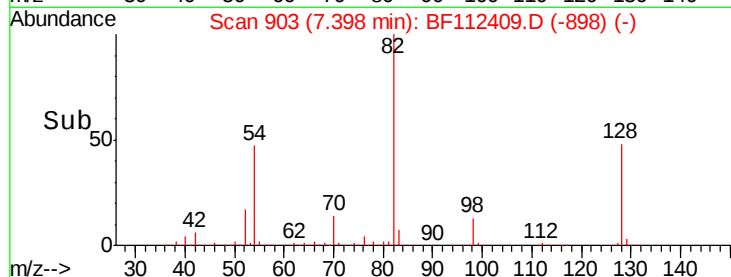
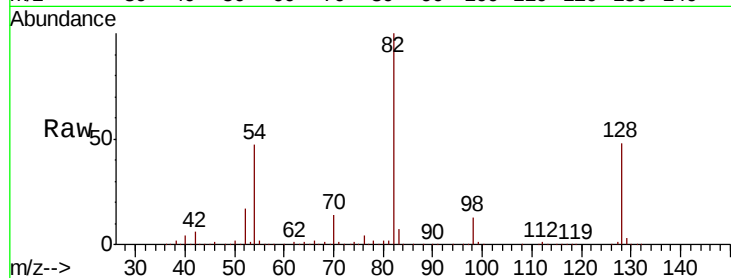
Tgt Ion: 82 Resp: 821411

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

138 0.0 15.4 23.0#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

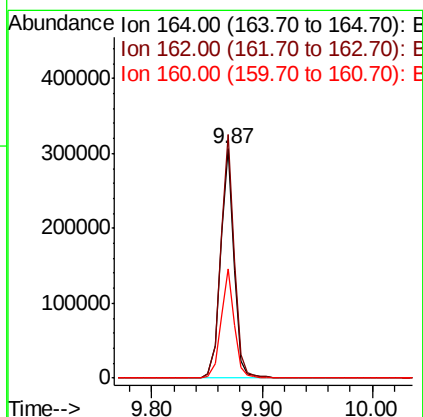
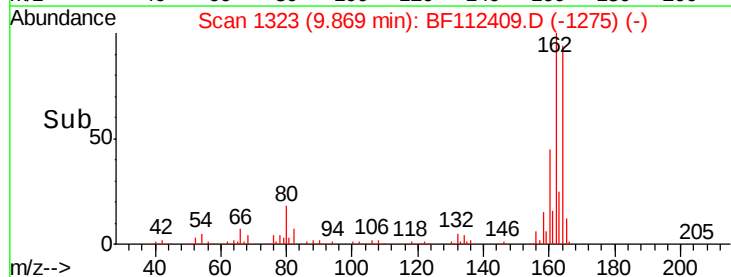
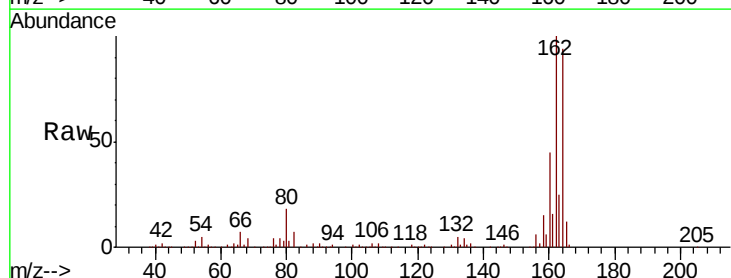
Tgt Ion: 164 Resp: 259454

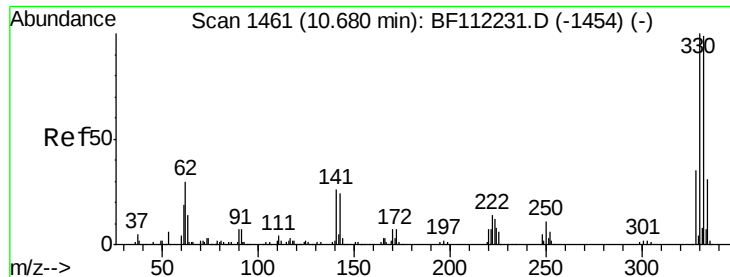
Ion Ratio Lower Upper

164 100

162 106.1 82.2 123.4

160 47.5 36.2 54.4

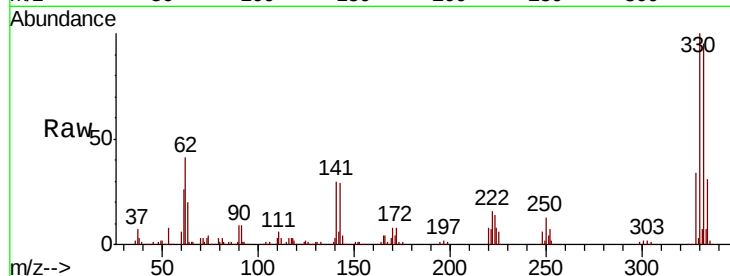




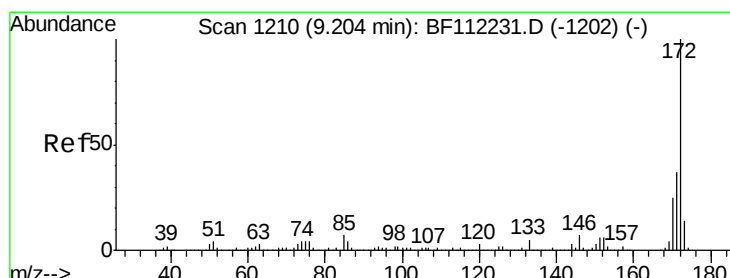
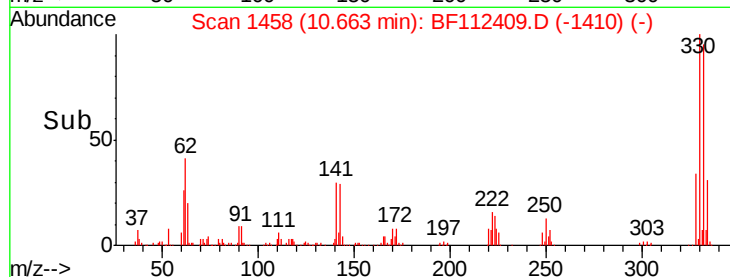
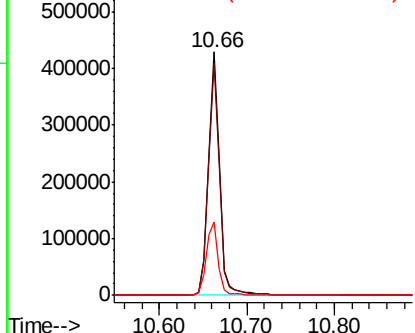
#42  
 2,4,6-Tribromophenol  
 Concen: 128.151 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.02 min  
 Lab File: BF112409.D  
 Acq: 5 Feb 2019 21:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-020419-A

Tgt Ion:330 Resp: 387014  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 76.6 114.8  
 141 31.5 24.3 36.5

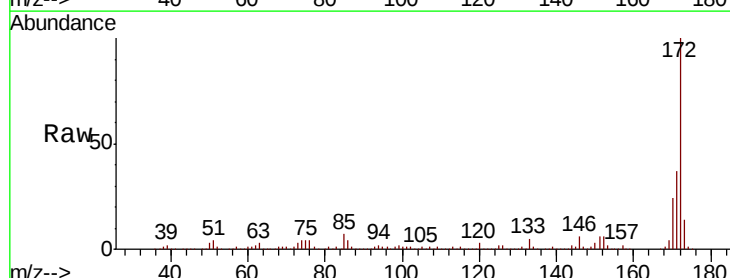


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

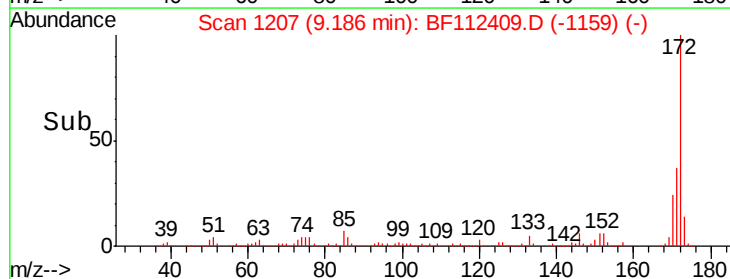
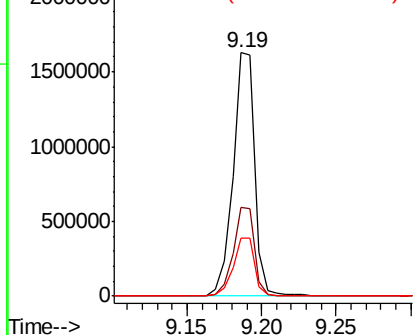


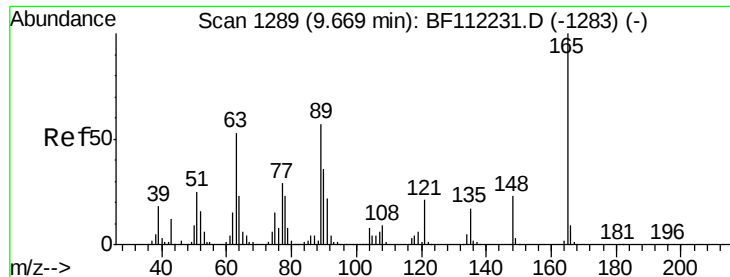
#45  
 2-Fluorobiphenyl  
 Concen: 90.983 ng  
 RT: 9.19 min Scan# 1207  
 Delta R.T. -0.02 min  
 Lab File: BF112409.D  
 Acq: 5 Feb 2019 21:22

Tgt Ion:172 Resp: 1669045  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 30.5 45.7  
 170 24.0 20.2 30.4



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





#51

2,6-Dinitrotoluene

Concen: 7.266 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.20 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

Instrument :

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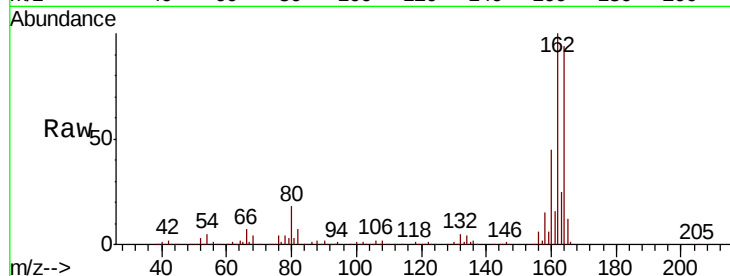
Tgt Ion:165 Resp: 32802

Ion Ratio Lower Upper

165 100

63 1.5 33.8 50.8#

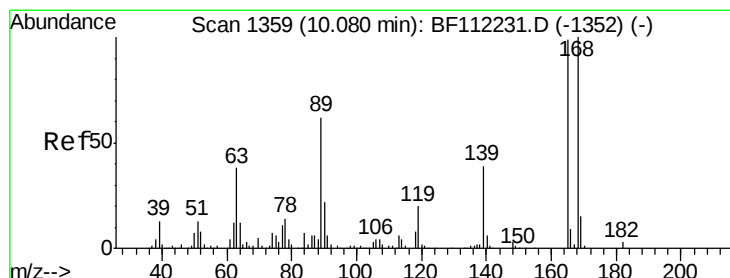
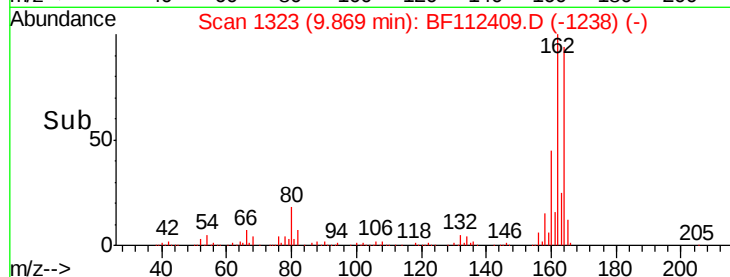
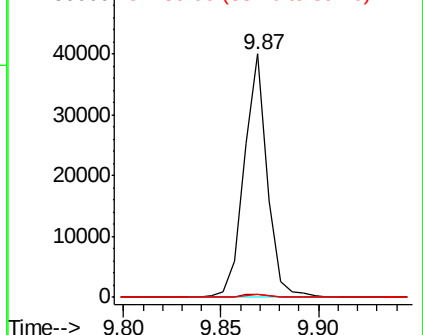
89 1.3 36.9 55.3#



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: 5.707 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.21 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

Tgt Ion:165 Resp: 32802

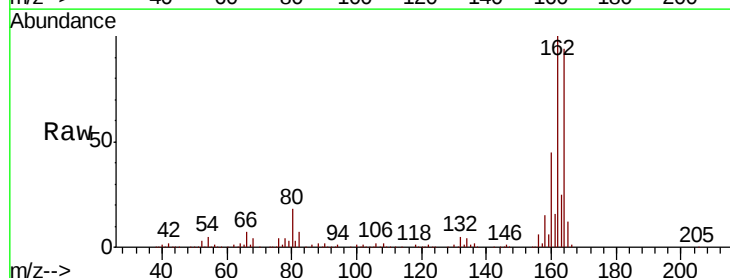
Ion Ratio Lower Upper

165 100

63 1.5 27.9 41.9#

89 1.3 47.9 71.9#

182 0.0 2.2 3.4#

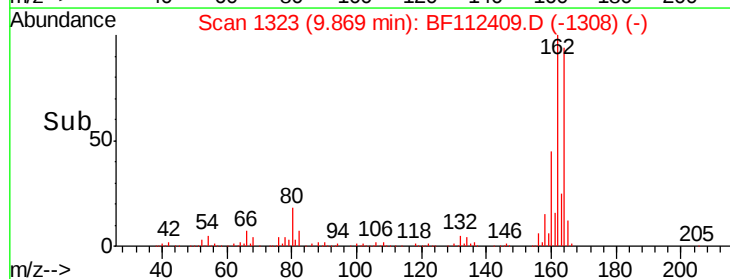
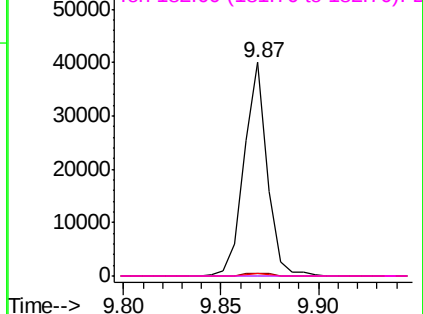


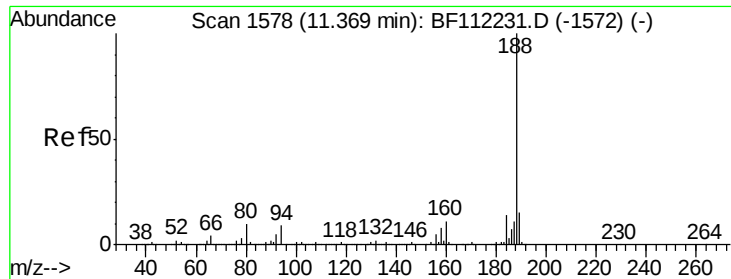
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): BF1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

Instrument :

BNA\_F

ClientSampleId :

HR-05-020419-A

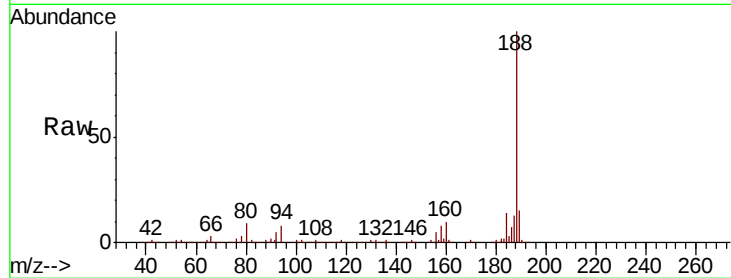
Tgt Ion:188 Resp: 453089

Ion Ratio Lower Upper

188 100

94 7.6 8.2 12.2#

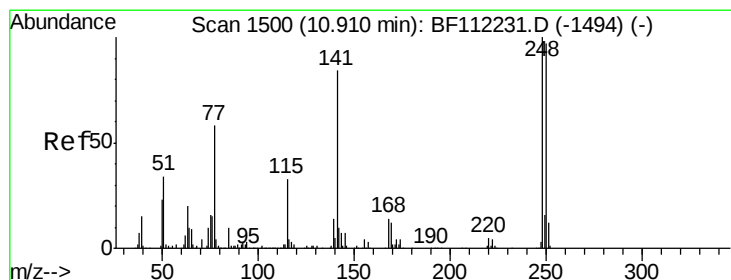
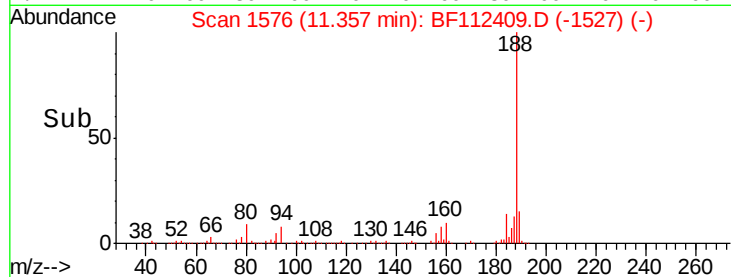
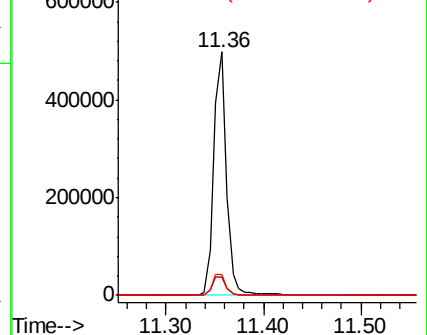
80 8.7 8.9 13.3#



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: 4.353 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.25 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

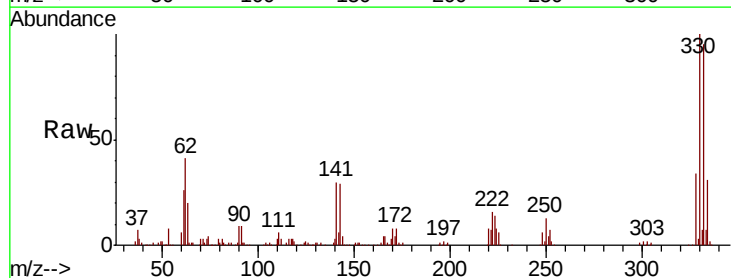
Tgt Ion:248 Resp: 23199

Ion Ratio Lower Upper

248 100

250 208.6 79.7 119.5#

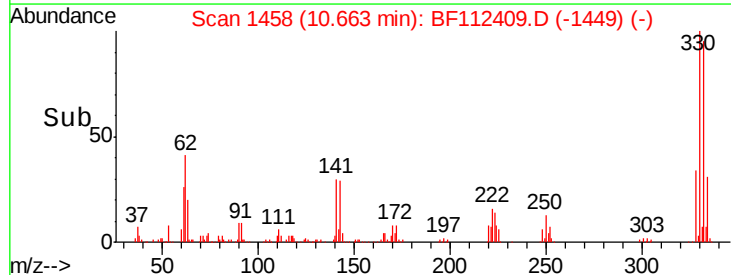
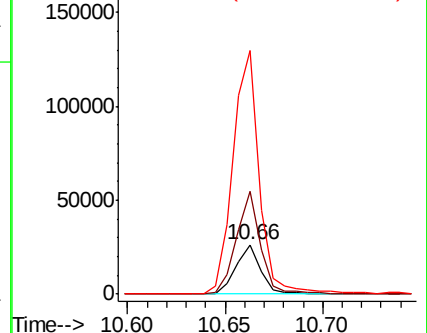
141 495.5 60.3 90.5#

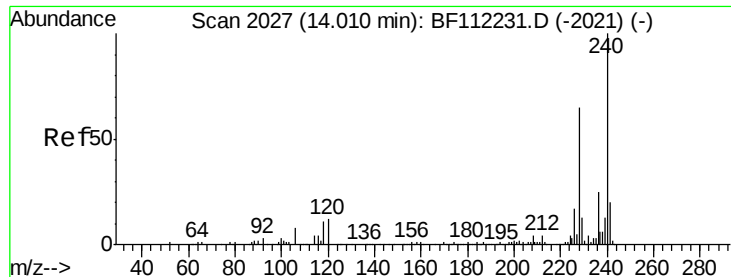


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

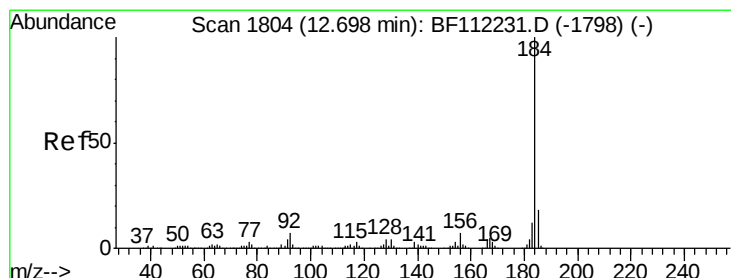
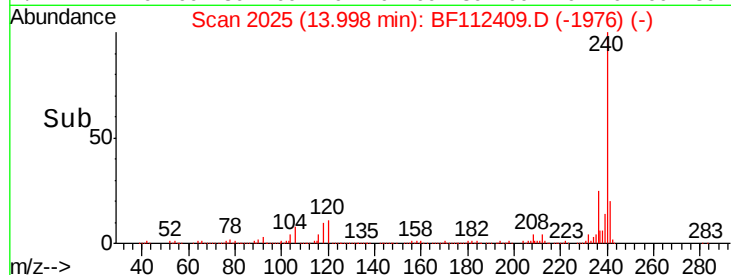
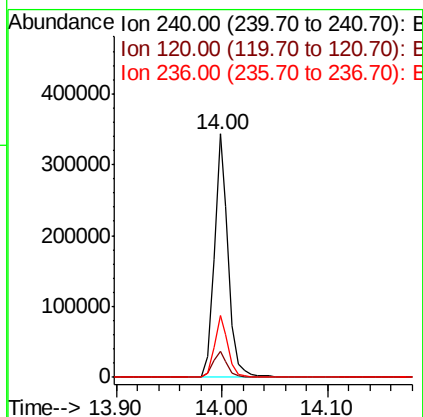
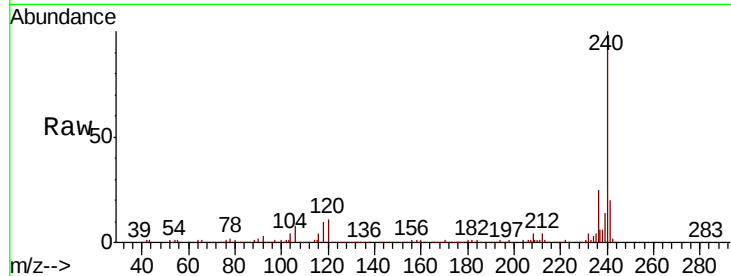




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.01 min  
Lab File: BF112409.D  
Acq: 5 Feb 2019 21:22

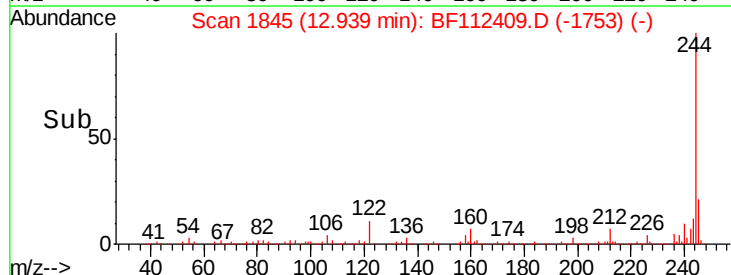
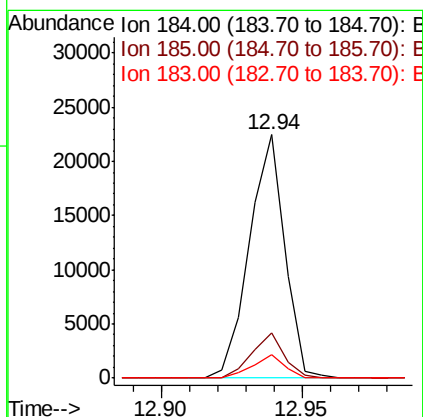
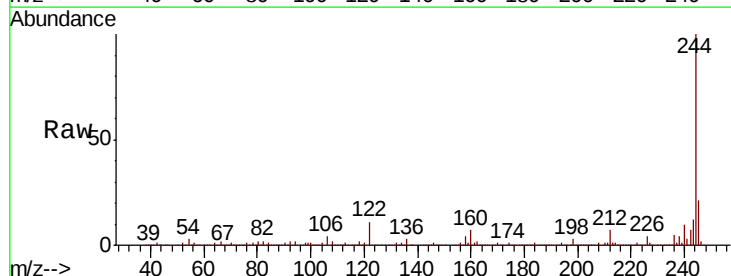
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-020419-A

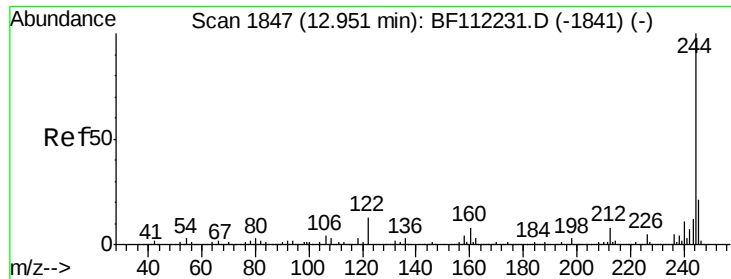
Tgt Ion:240 Resp: 318365  
Ion Ratio Lower Upper  
240 100  
120 10.8 9.0 13.6  
236 25.5 20.7 31.1



#77  
Benzidine  
Concen: 2.232 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. 0.24 min  
Lab File: BF112409.D  
Acq: 5 Feb 2019 21:22

Tgt Ion:184 Resp: 19555  
Ion Ratio Lower Upper  
184 100  
185 18.6 13.9 20.9  
183 9.7 10.0 15.0#





#79

Terphenyl-d14

Concen: 88.518 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

Instrument :

BNA\_F

ClientSampleId :

HR-05-020419-A

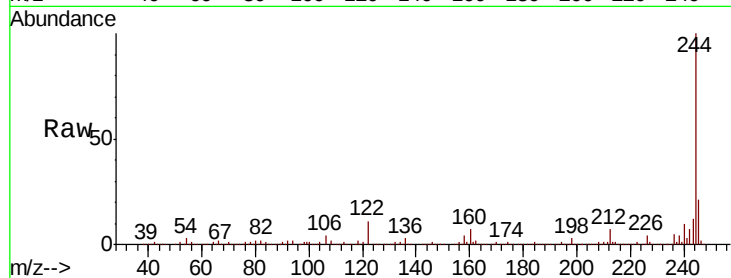
Tgt Ion:244 Resp: 1496245

Ion Ratio Lower Upper

244 100

212 7.3 5.9 8.9

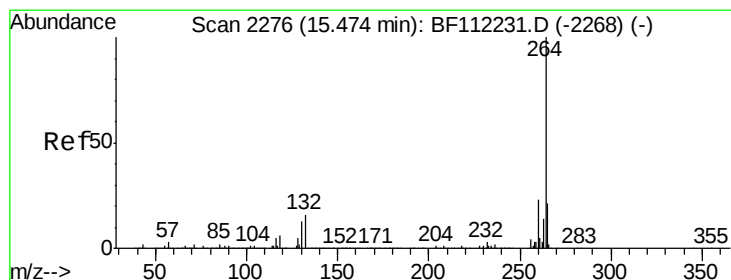
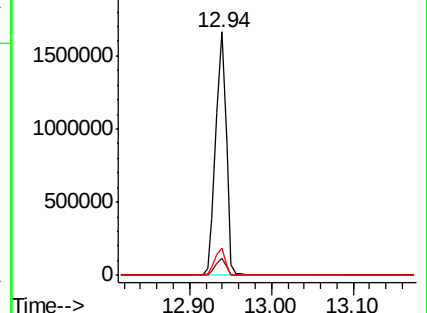
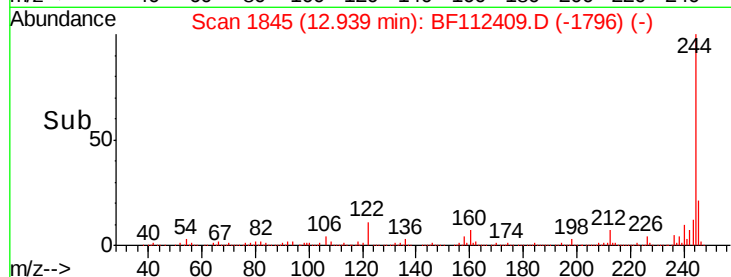
122 11.2 9.8 14.6



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: 15.47 min Scan# 2275

Delta R.T. -0.01 min

Lab File: BF112409.D

Acq: 5 Feb 2019 21:22

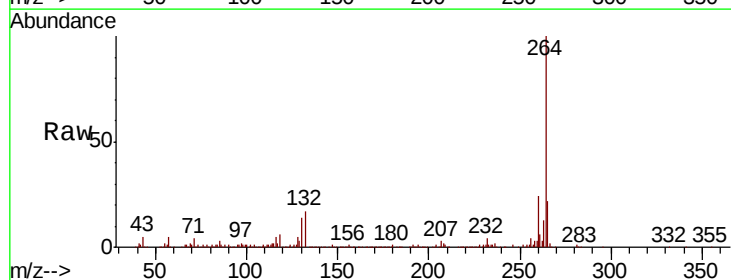
Tgt Ion:264 Resp: 273806

Ion Ratio Lower Upper

264 100

260 24.1 18.2 27.2

265 21.8 17.0 25.4



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

