

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100620\  
 Data File : BF121861.D  
 Acq On : 6 Oct 2020 19:33  
 Operator : JU/CG  
 Sample : L4248-02 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NP-SOIL

Quant Time: Oct 07 00:26:26 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 01 14:29:14 2020  
 Response via : Initial Calibration

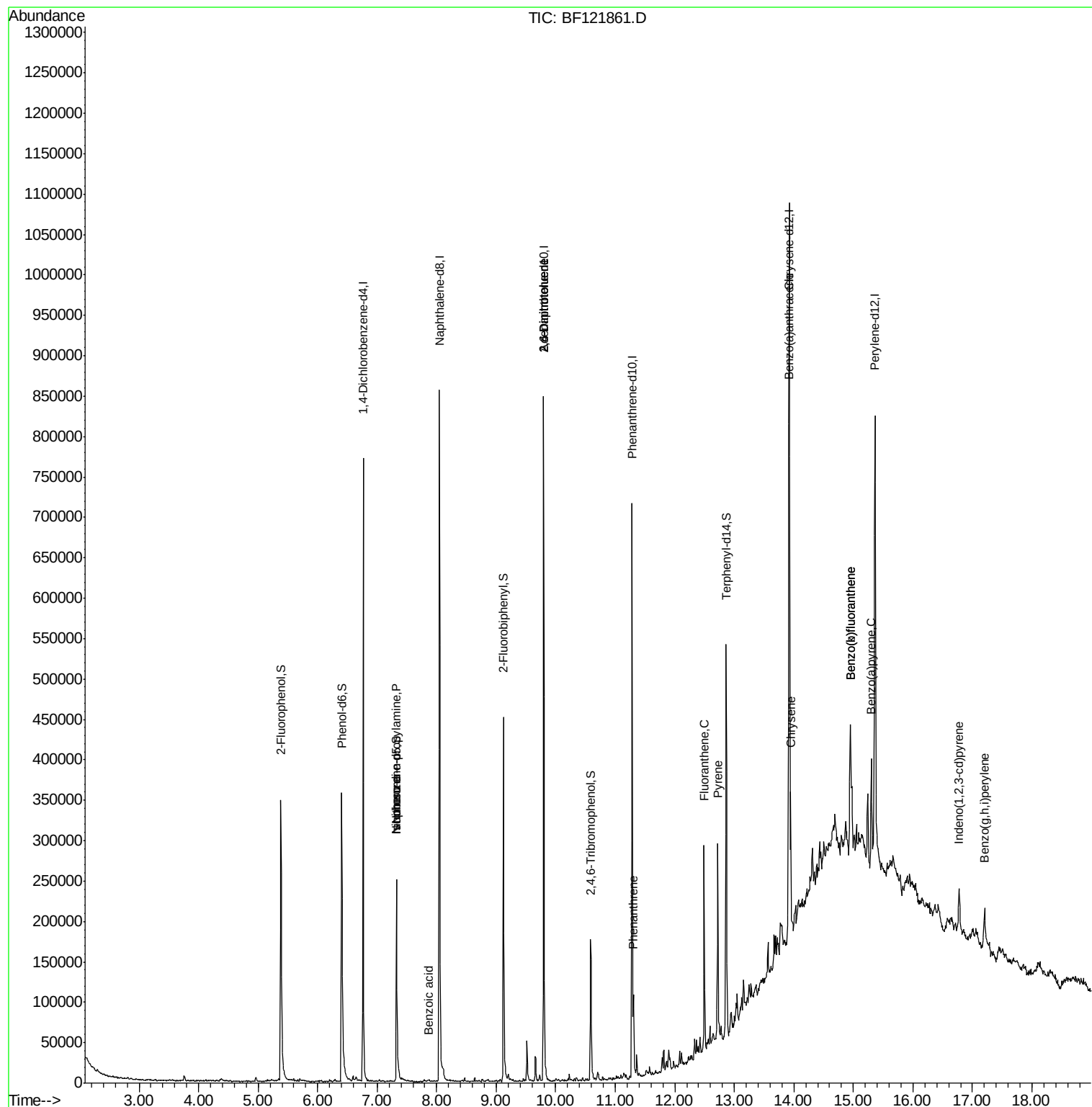
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.76  | 152  | 110735   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.05  | 136  | 397456   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.80  | 164  | 170467   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.28 | 188  | 275756   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12               | 13.92 | 240  | 280275   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 15.36 | 264  | 246580   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.38  | 112  | 124928   | 16.77 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.40  | 99   | 158090   | 16.17 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.33  | 82   | 99635    | 13.46 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.59 | 330  | 26674    | 12.59 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.12  | 172  | 173730   | 15.44 | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.86 | 244  | 139322   | 10.07 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.32  | 70   | 12861    | 2.283 | ng    | # 81     |
| 25) Isophorone                 | 7.33  | 82   | 99634    | 6.686 | ng    | # 67     |
| 32) Benzoic acid               | 7.86  | 122  | 251      | 6.979 | ng    | # 1      |
| 51) 2,6-Dinitrotoluene         | 9.80  | 165  | 21808    | 8.288 | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 9.80  | 165  | 21808    | 6.588 | ng    | # 20     |
| 71) Phenanthrene               | 11.30 | 178  | 33467    | 2.228 | ng    | 98       |
| 75) Fluoranthene               | 12.49 | 202  | 104875   | 6.539 | ng    | 99       |
| 78) Pyrene                     | 12.72 | 202  | 96526    | 4.714 | ng    | 98       |
| 81) Benzo(a)anthracene         | 13.91 | 228  | 70177    | 3.958 | ng    | 97       |
| 83) Chrysene                   | 13.95 | 228  | 65170    | 3.630 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene     | 16.78 | 276  | 33841    | 2.107 | ng    | 97       |
| 88) Benzo(b)fluoranthene       | 14.95 | 252  | 117100   | 7.104 | ng    | # 96     |
| 89) Benzo(k)fluoranthene       | 14.95 | 252  | 117100   | 7.757 | ng    | # 95     |
| 90) Benzo(a)pyrene             | 15.30 | 252  | 56850    | 4.057 | ng    | # 91     |
| 92) Benzo(a,h,i)perylene       | 17.20 | 276  | 29885    | 2.274 | ng    | 94       |

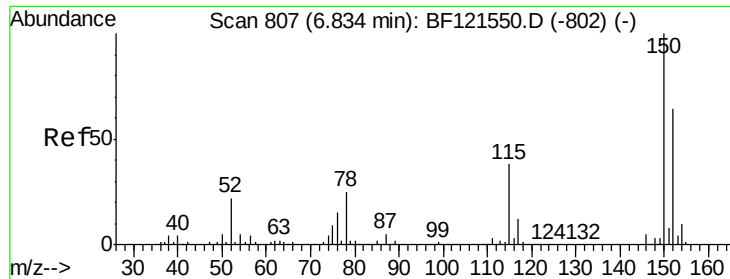
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100620\  
Data File : BF121861.D  
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Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NP-SOIL

Quant Time: Oct 07 00:26:26 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 01 14:29:14 2020  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.76 min Scan# 795

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Instrument :

BNA\_F

ClientSampleId :

NP-SOIL

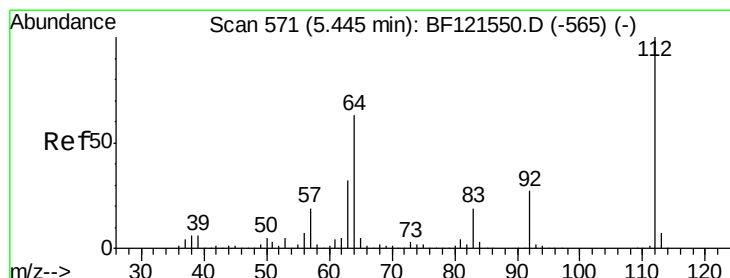
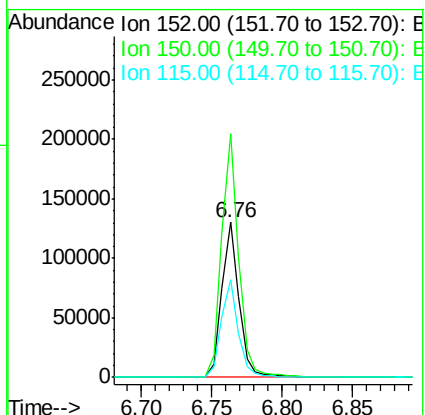
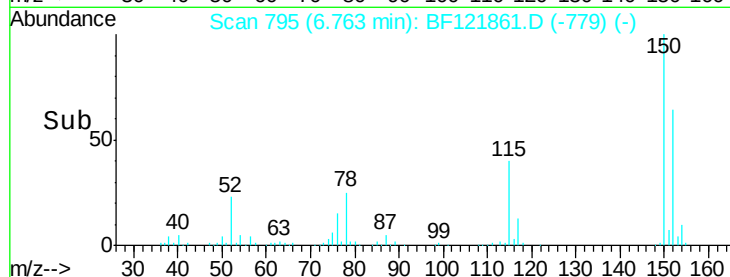
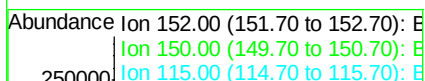
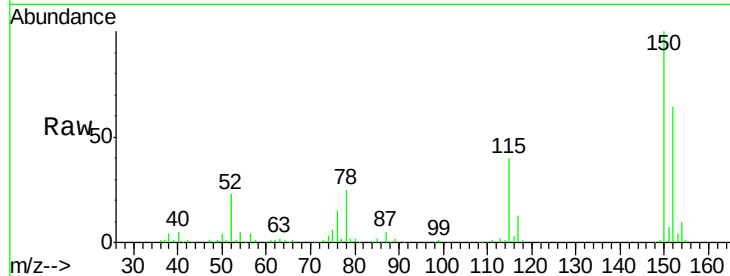
Tot Ion:152 Resp: 110735

Ion Ratio Lower Upper

152 100

150 157.4 125.3 187.9

115 62.9 51.9 77.9



#5

2-Fluorophenol

Concen: 16.766 ng

RT: 5.38 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

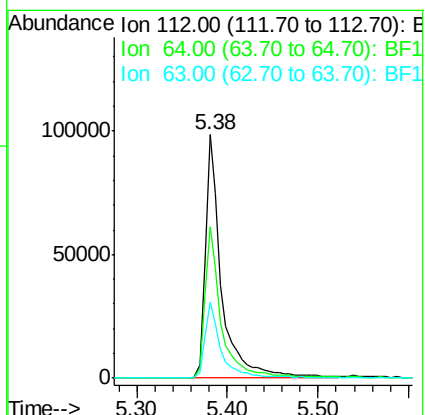
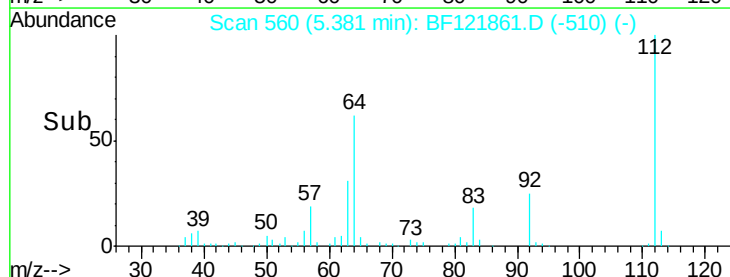
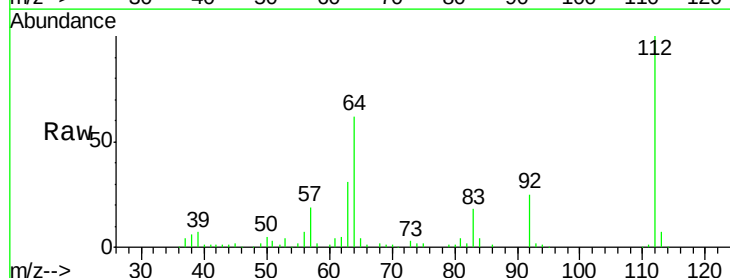
Tgt Ion:112 Resp: 124928

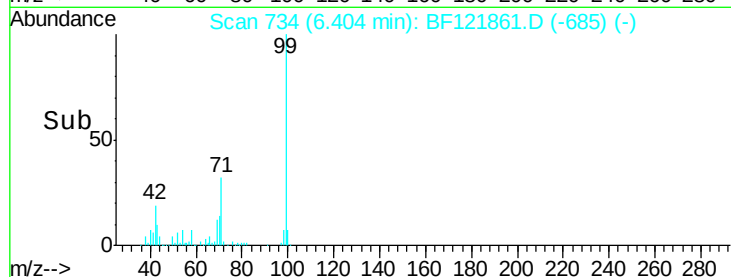
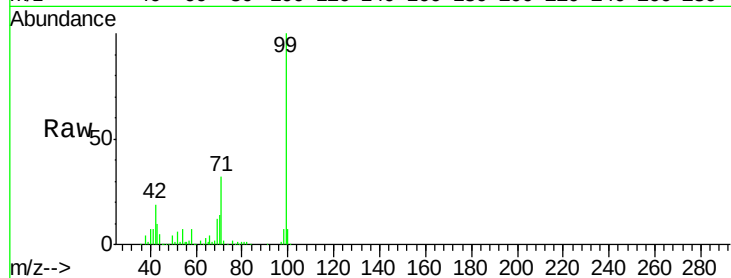
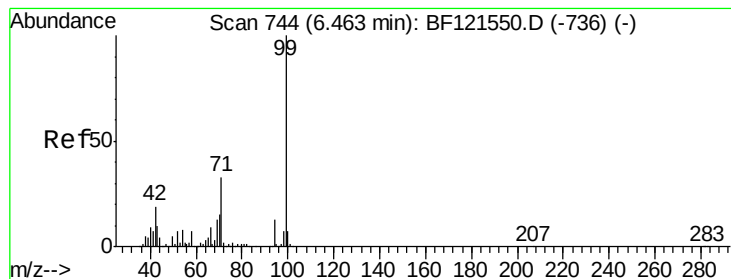
Ion Ratio Lower Upper

112 100

64 62.3 50.4 75.6

63 31.3 25.8 38.6





#7

Phenol-d6

Concen: 16.172 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Instrument :

BNA\_F

ClientSampleId :

NP-SOIL

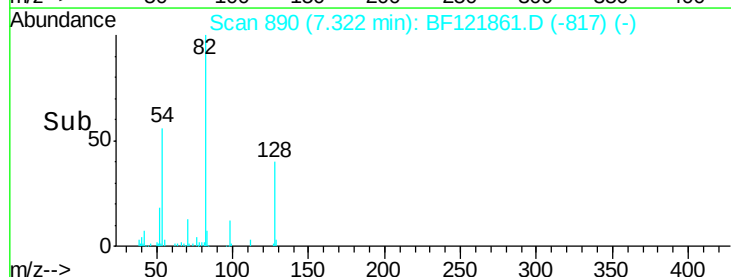
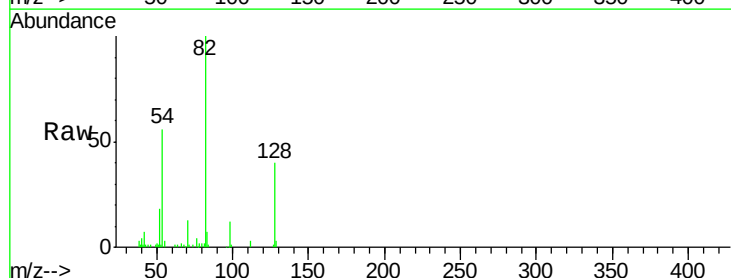
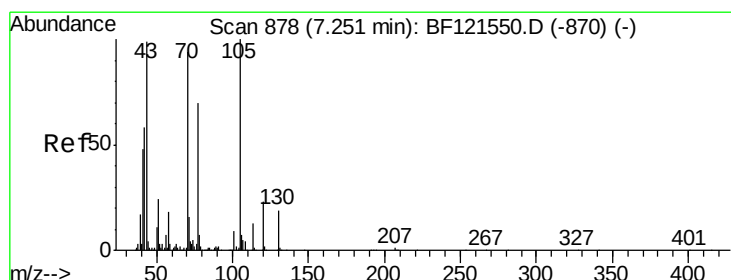
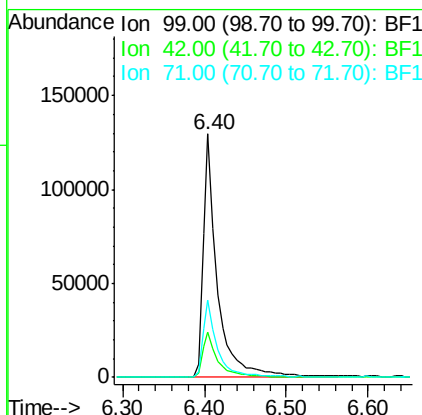
Tot Ion: 99 Resp: 158090

Ion Ratio Lower Upper

99 100

42 18.5 15.9 23.9

71 31.9 27.1 40.7



#19

n-Nitroso-di-n-propylamine

Concen: 2.283 ng

RT: 7.32 min Scan# 890

Delta R.T. 0.13 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Tgt Ion: 70 Resp: 12861

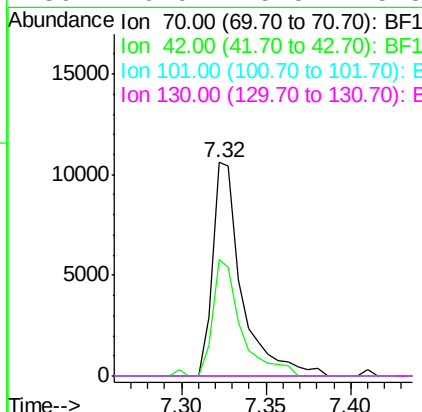
Ion Ratio Lower Upper

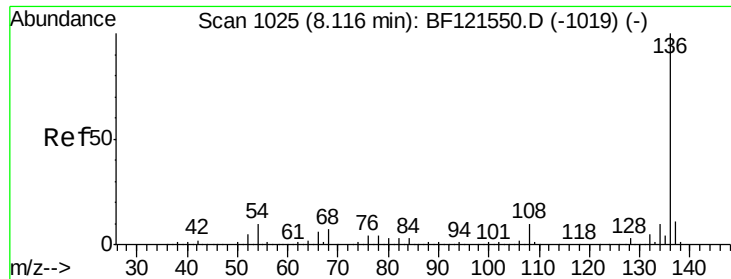
70 100

42 54.7 50.2 75.4

101 0.0 7.5 11.3#

130 0.0 15.5 23.3#

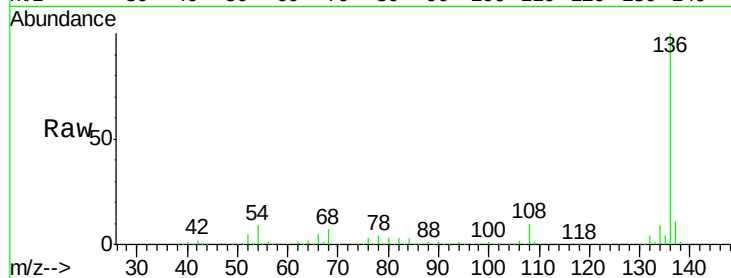




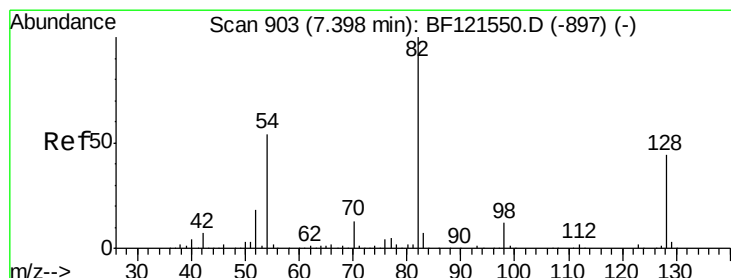
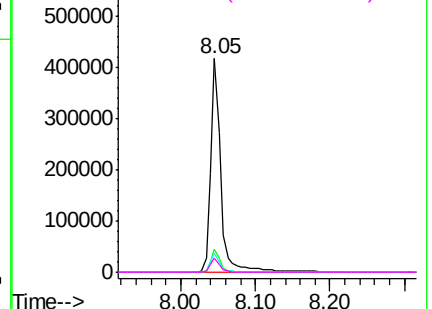
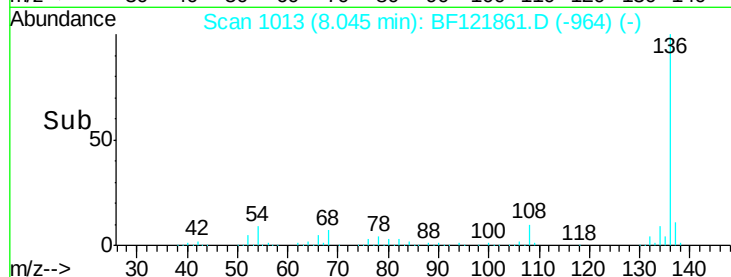
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.05 min Scan# 1013  
Delta R.T. -0.01 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Instrument :  
BNA\_F  
ClientSampleId :  
NP-SOIL

Tot Ion:136 Resp: 397456  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 13.0  
54 9.3 7.1 10.7  
68 6.8 5.0 7.4

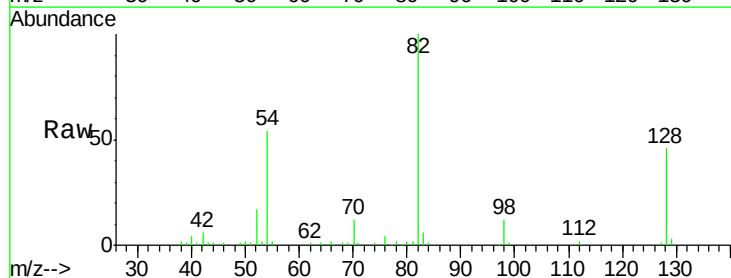


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

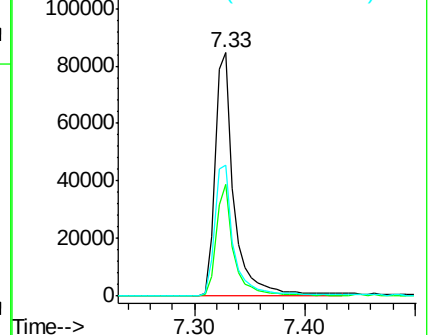
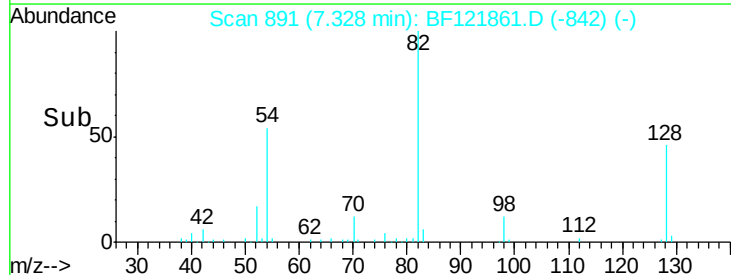


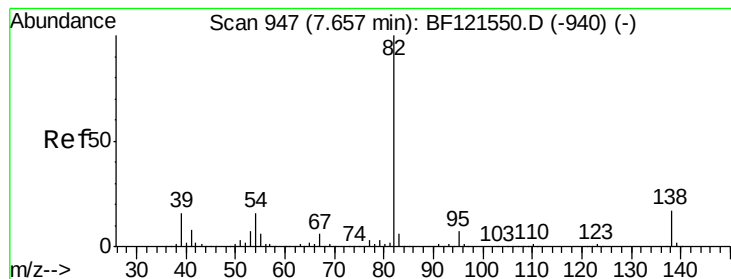
#23  
Nitrobenzene-d5  
Concen: 13.460 ng  
RT: 7.33 min Scan# 891  
Delta R.T. -0.01 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Tgt Ion: 82 Resp: 99635  
Ion Ratio Lower Upper  
82 100  
128 45.8 35.0 52.4  
54 53.8 43.9 65.9



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: 6.686 ng

RT: 7.33 min Scan# 891

Delta R.T. -0.27 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Instrument :

BNA\_F

ClientSampleId :

NP-SOIL

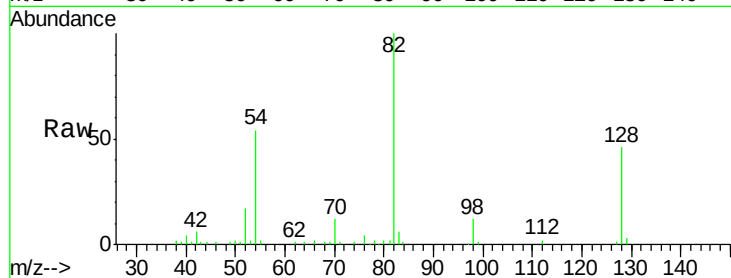
Tot Ion: 82 Resp: 99634

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

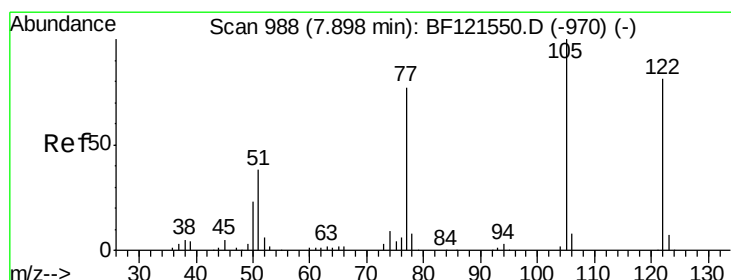
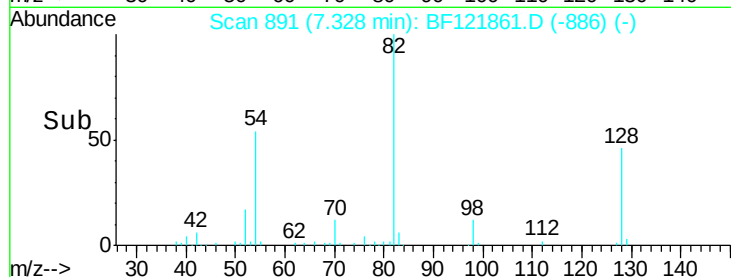
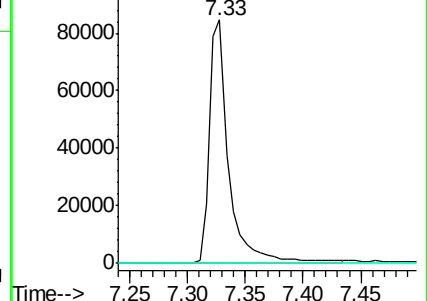
138 0.0 13.4 20.0#



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



#32

Benzoic acid

Concen: 6.979 ng

RT: 7.86 min Scan# 982

Delta R.T. 0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

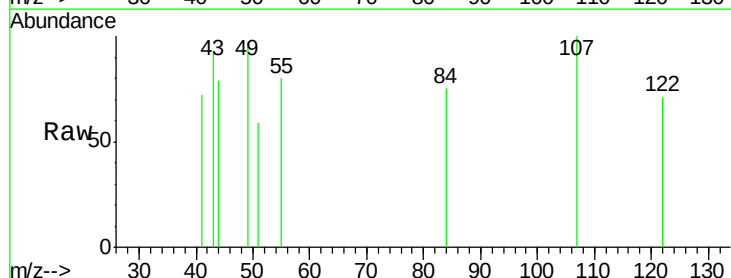
Tgt Ion: 122 Resp: 251

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

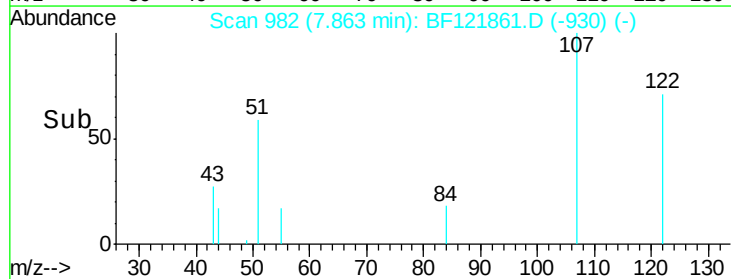
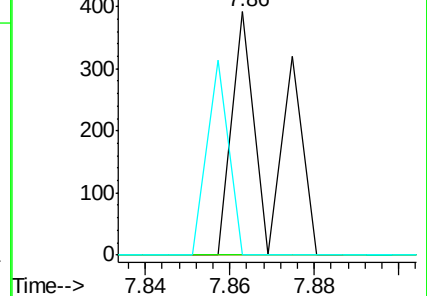
77 0.0 73.9 113.9#

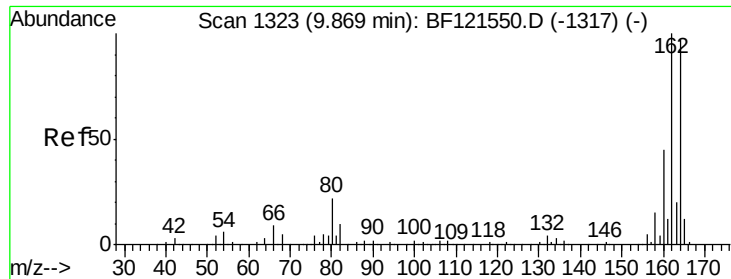


Abundance Ion 122.00 (121.70 to 122.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 77.00 (76.70 to 77.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.80 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Instrument :

BNA\_F

ClientSampled :

NP-SOIL

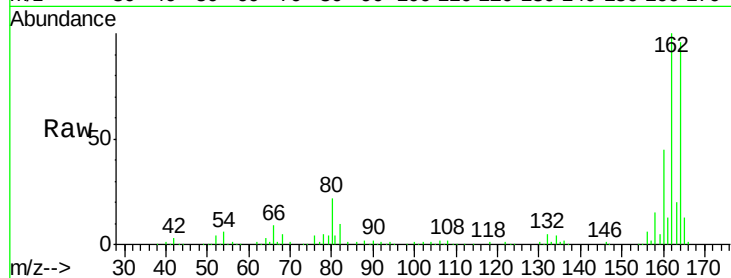
Tot Ion:164 Resp: 170467

Ion Ratio Lower Upper

164 100

162 103.6 83.2 124.8

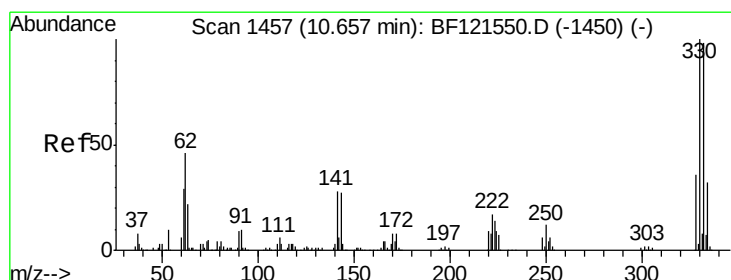
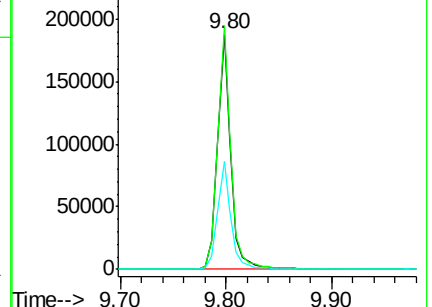
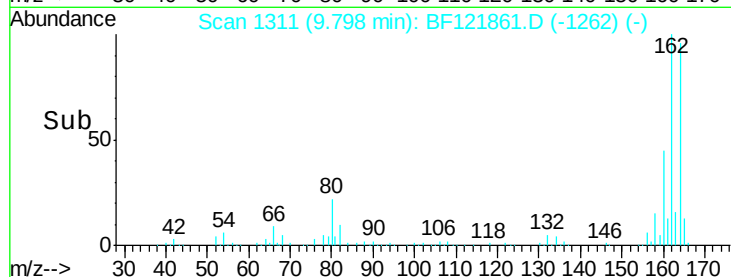
160 46.2 37.5 56.3



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: 12.590 ng

RT: 10.59 min Scan# 1446

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

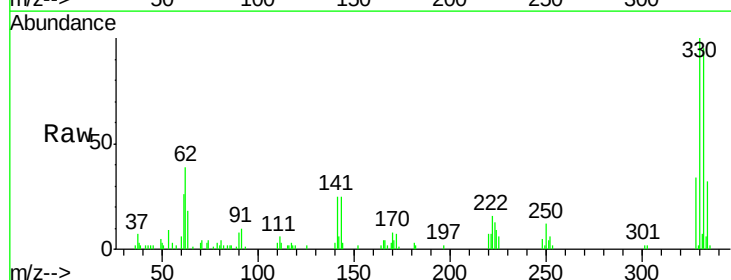
Tgt Ion:330 Resp: 26674

Ion Ratio Lower Upper

330 100

332 95.9 77.3 115.9

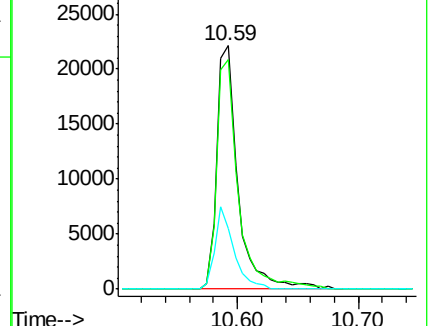
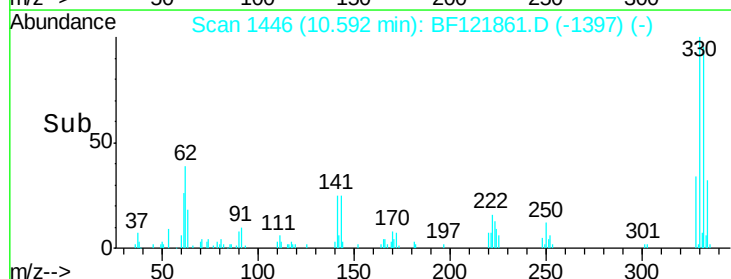
141 30.0 22.3 33.5

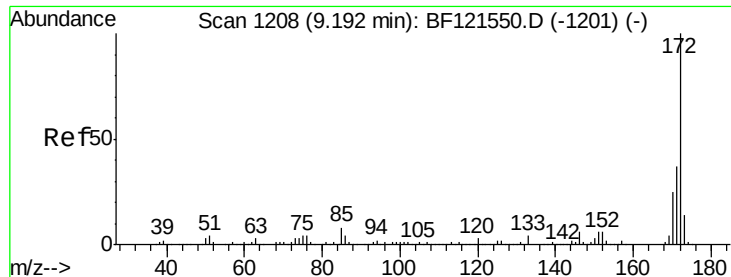


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

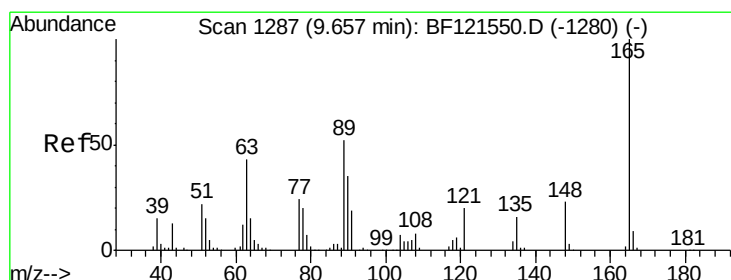
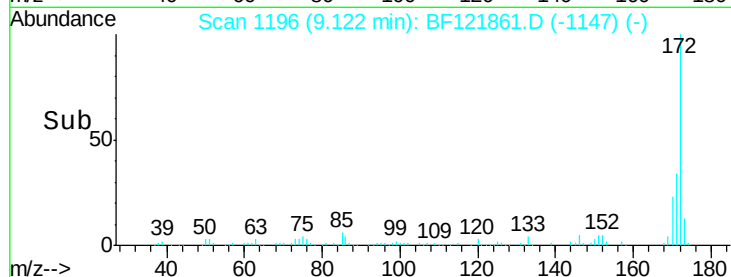
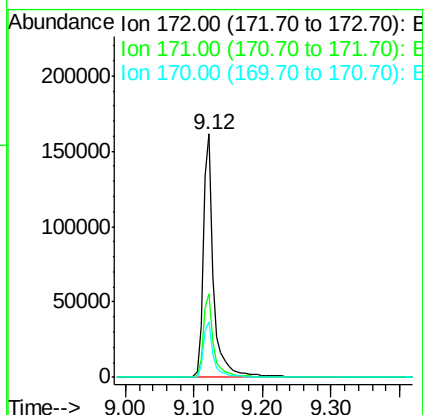
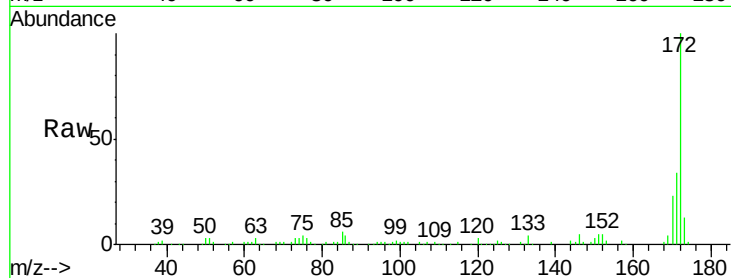




#45  
2-Fluorobiphenyl  
Concen: 15.435 ng  
RT: 9.12 min Scan# 1196  
Delta R.T. -0.01 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

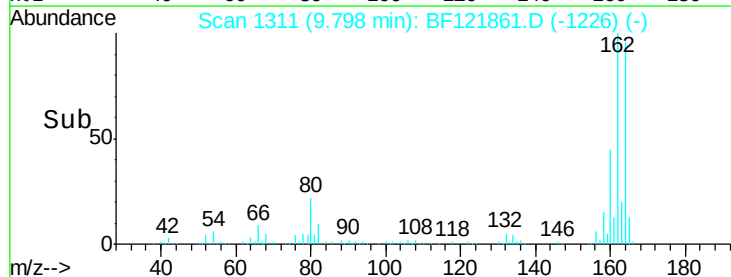
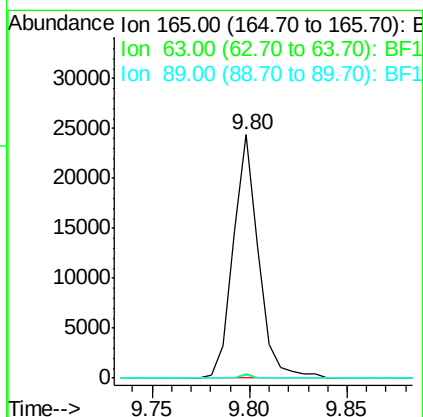
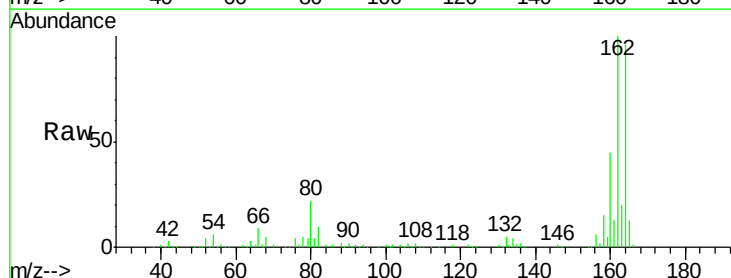
Instrument :  
BNA\_F  
ClientSampleId :  
NP-SOIL

Tot Ion:172 Resp: 173730  
Ion Ratio Lower Upper  
172 100  
171 34.4 29.1 43.7  
170 22.8 19.8 29.6

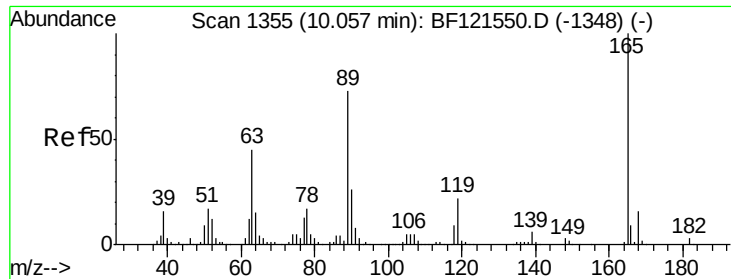


#51  
2,6-Dinitrotoluene  
Concen: 8.288 ng  
RT: 9.80 min Scan# 1311  
Delta R.T. 0.20 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Tgt Ion:165 Resp: 21808  
Ion Ratio Lower Upper  
165 100  
63 1.5 51.8 77.6#  
89 1.4 49.0 73.6#



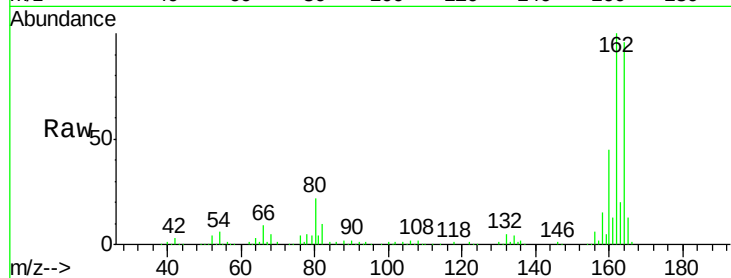




#57  
 2,4-Dinitrotoluene  
 Concen: 6.588 ng  
 RT: 9.80 min Scan# 1311  
 Delta R.T. -0.21 min  
 Lab File: BF121861.D  
 Acq: 6 Oct 2020 19:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NP-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 41.3  | 61.9# |
| 89      | 1.4   | 61.8  | 92.8# |
| 182     | 0.0   | 2.1   | 3.1#  |

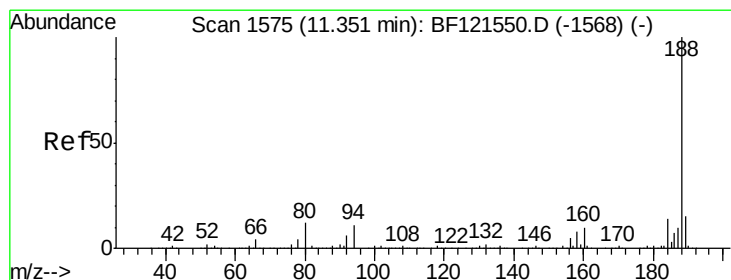
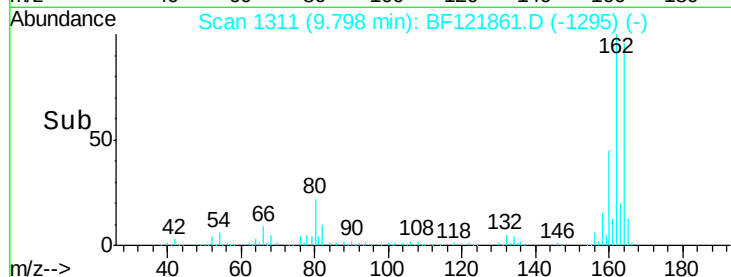
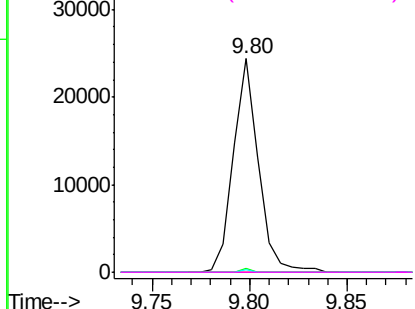


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

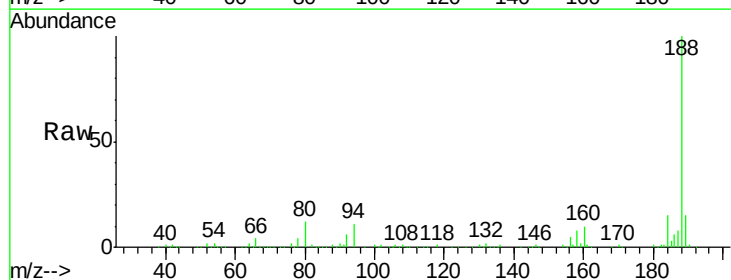
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.28 min Scan# 1563  
 Delta R.T. -0.01 min  
 Lab File: BF121861.D  
 Acq: 6 Oct 2020 19:33

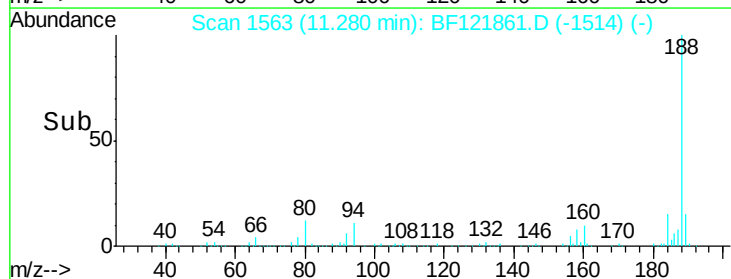
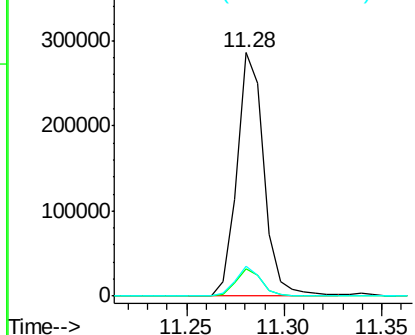
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.5  | 8.3   | 12.5  |
| 80      | 12.0  | 9.1   | 13.7  |

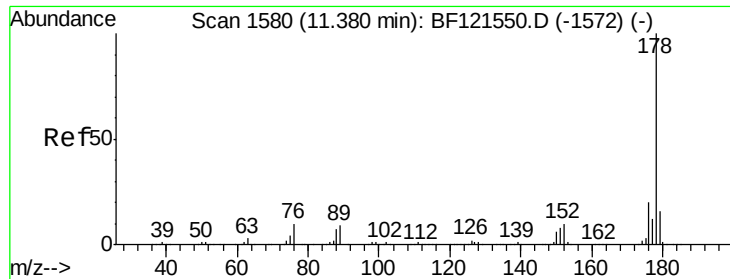


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

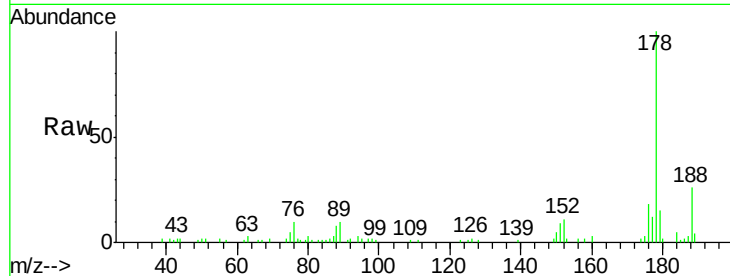




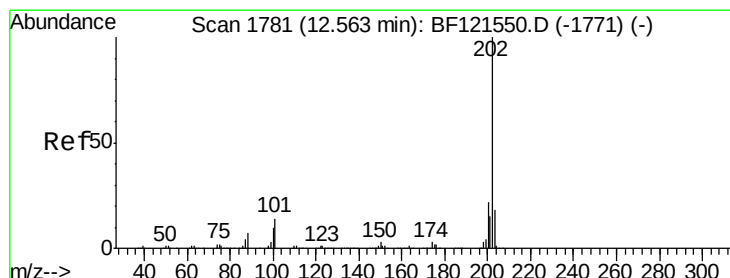
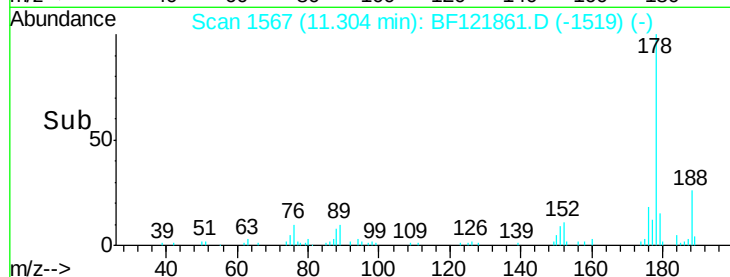
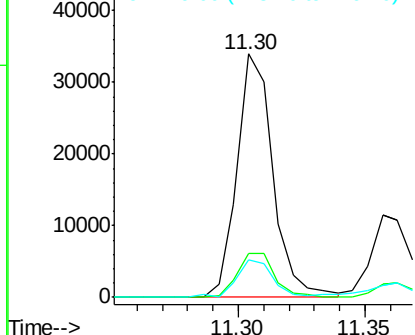
#71  
Phenanthrene  
Concen: 2.228 ng  
RT: 11.30 min Scan# 1567  
Delta R.T. -0.02 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Instrument :  
BNA\_F  
ClientSampleId :  
NP-SOIL

Tot Ion:178 Resp: 33467  
Ion Ratio Lower Upper  
178 100  
176 18.2 15.9 23.9  
179 15.2 12.2 18.4

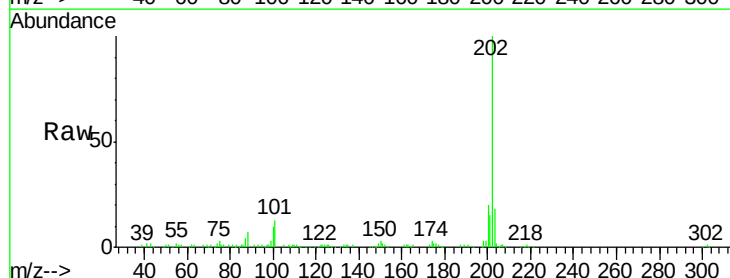


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

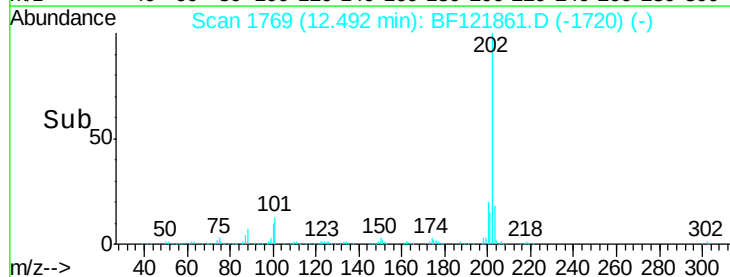
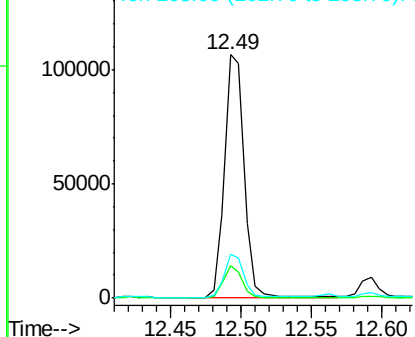


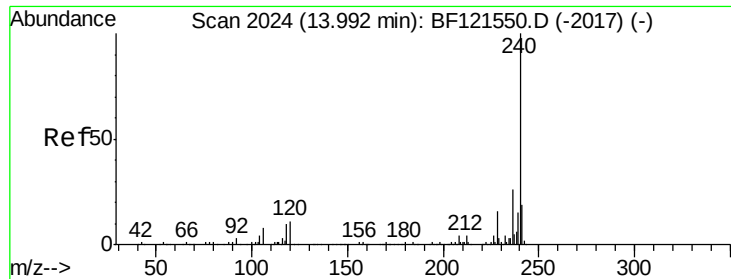
#75  
Fluoranthene  
Concen: 6.539 ng  
RT: 12.49 min Scan# 1769  
Delta R.T. -0.01 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Tgt Ion:202 Resp: 104875  
Ion Ratio Lower Upper  
202 100  
101 13.2 0.0 33.4  
203 18.3 0.0 37.9



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

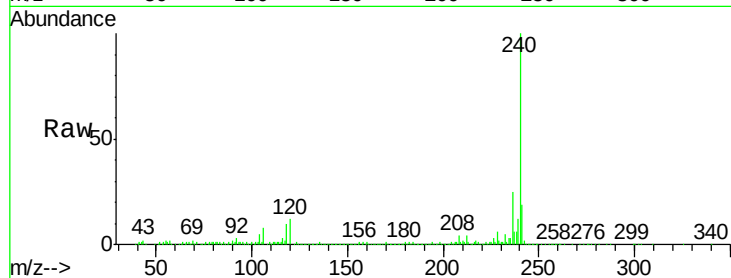




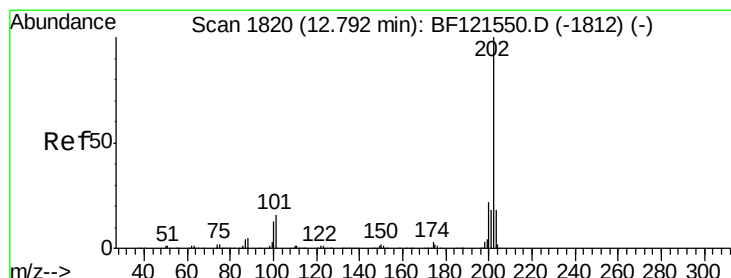
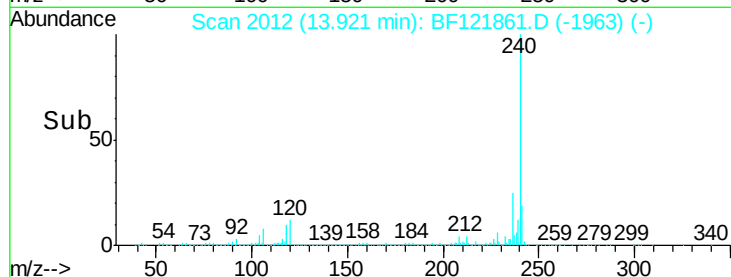
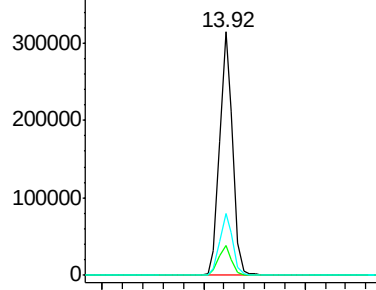
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. -0.01 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Instrument :  
BNA\_F  
ClientSampleId :  
NP-SOIL

Tot Ion:240 Resp: 280275  
Ion Ratio Lower Upper  
240 100  
120 12.3 9.2 13.8  
236 25.4 20.9 31.3

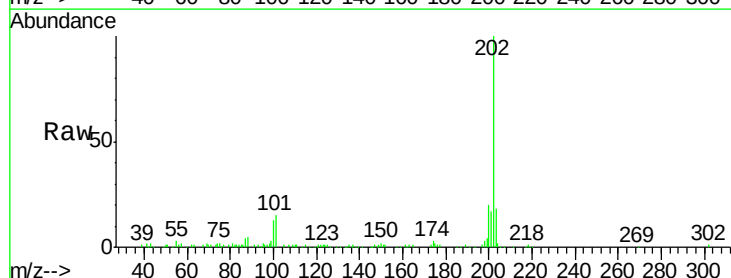


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

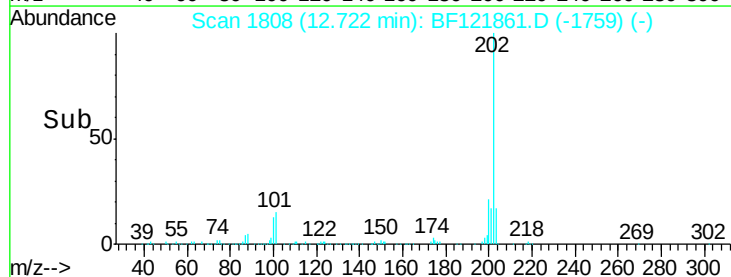
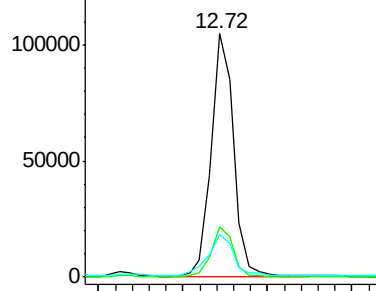


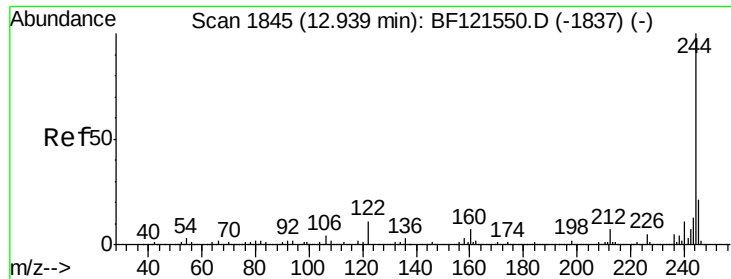
#78  
Pyrene  
Concen: 4.714 ng  
RT: 12.72 min Scan# 1808  
Delta R.T. -0.01 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Tgt Ion:202 Resp: 96526  
Ion Ratio Lower Upper  
202 100  
200 20.5 17.4 26.2  
203 17.6 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 10.071 ng

RT: 12.86 min Scan# 1832

Delta R.T. -0.02 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Instrument :

BNA\_F

ClientSampleId :

NP-SOIL

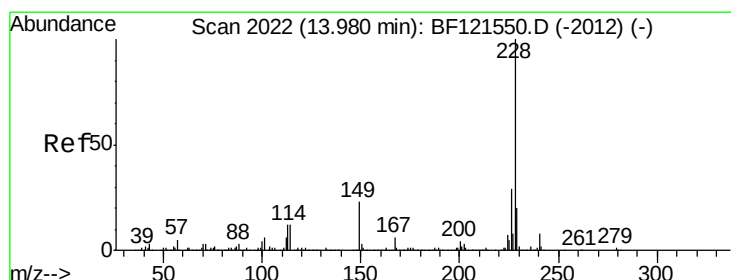
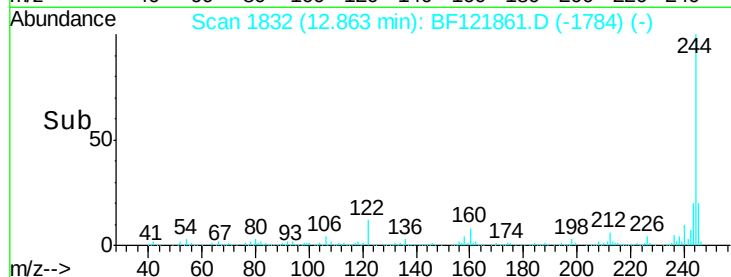
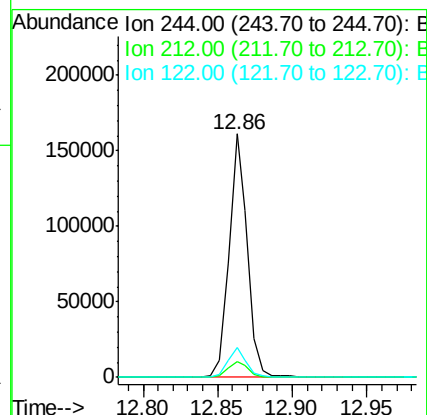
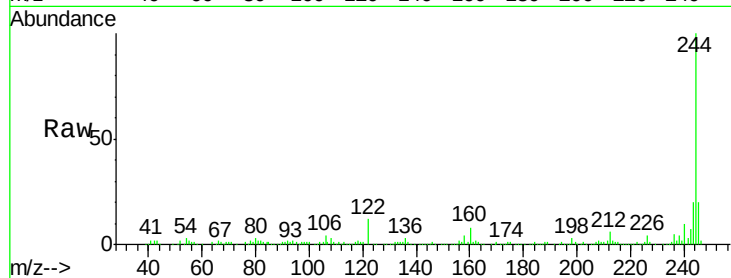
Tot Ion:244 Resp: 139322

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

122 12.5 8.1 12.1#



#81

Benzo(a)anthracene

Concen: 3.958 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

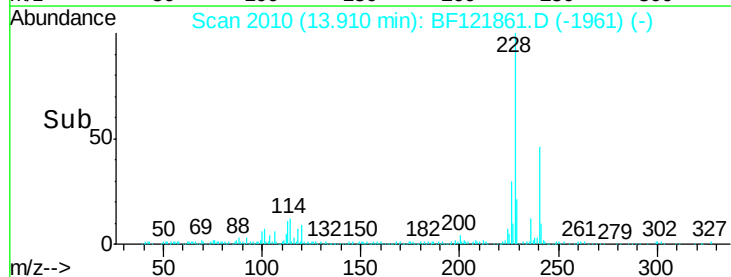
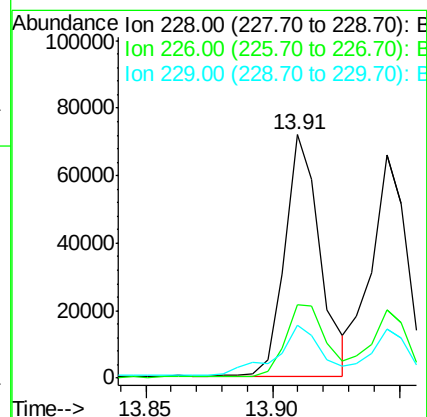
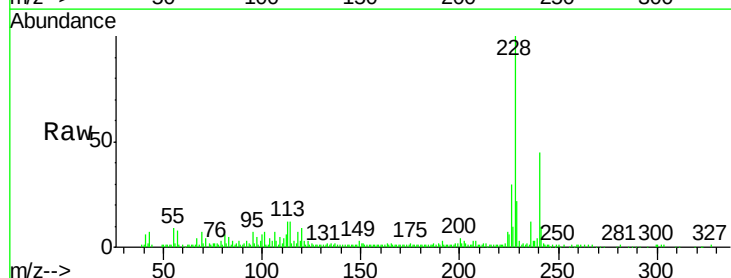
Tgt Ion:228 Resp: 70177

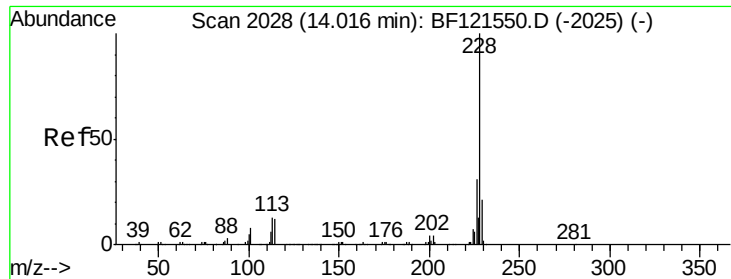
Ion Ratio Lower Upper

228 100

226 30.0 22.3 33.5

229 21.5 16.2 24.4

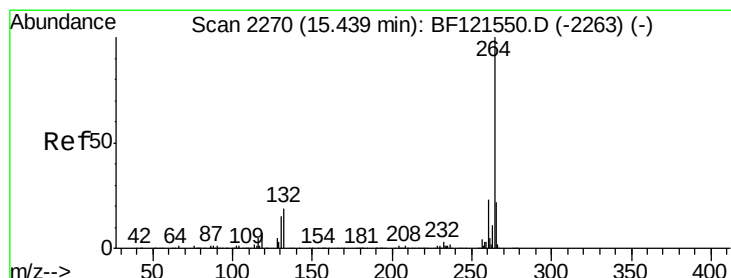
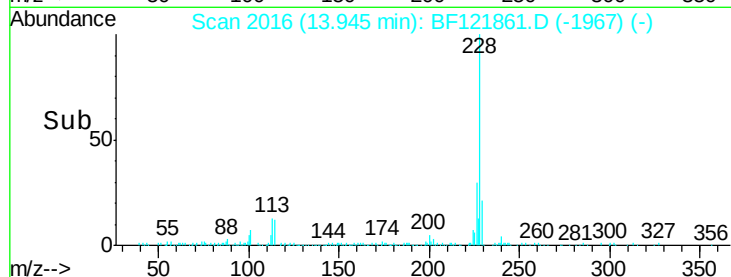
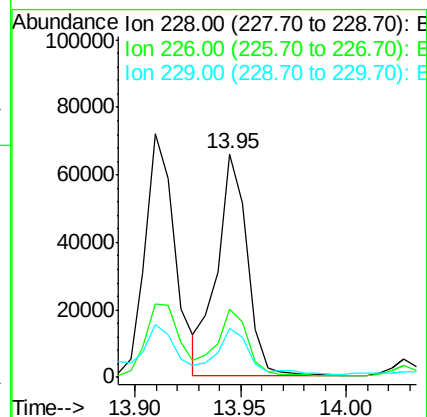
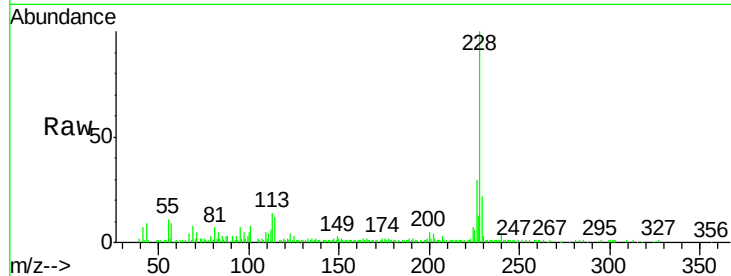




#83  
Chrysene  
Concen: 3.630 ng  
RT: 13.95 min Scan# 2016  
Delta R.T. -0.01 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

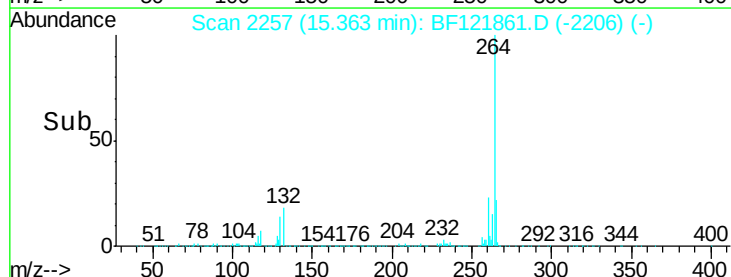
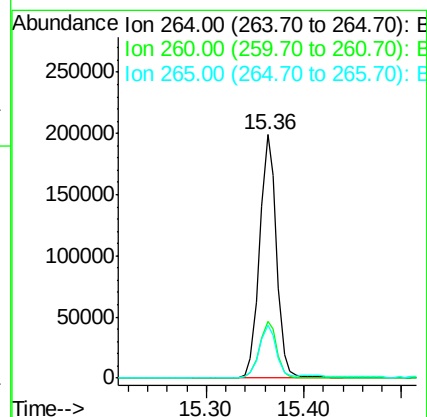
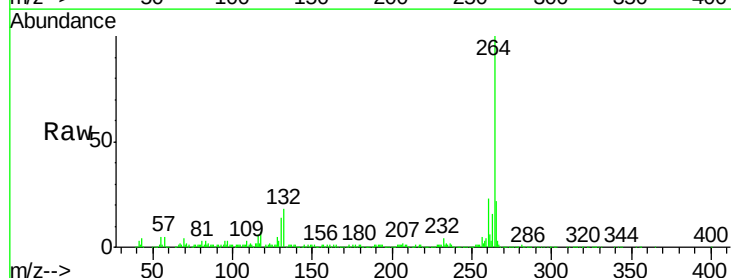
Instrument :  
BNA\_F  
ClientSampleId :  
NP-SOIL

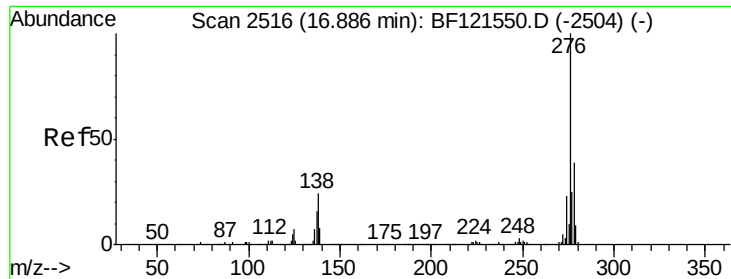
Tot Ion:228 Resp: 65170  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.6 37.0  
229 22.0 15.9 23.9



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.36 min Scan# 2257  
Delta R.T. 0.00 min  
Lab File: BF121861.D  
Acq: 6 Oct 2020 19:33

Tgt Ion:264 Resp: 246580  
Ion Ratio Lower Upper  
264 100  
260 23.2 18.7 28.1  
265 21.8 17.3 25.9

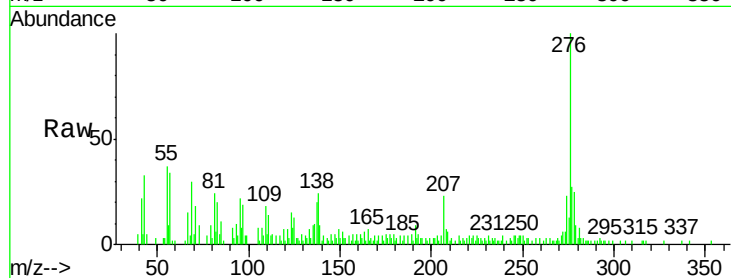




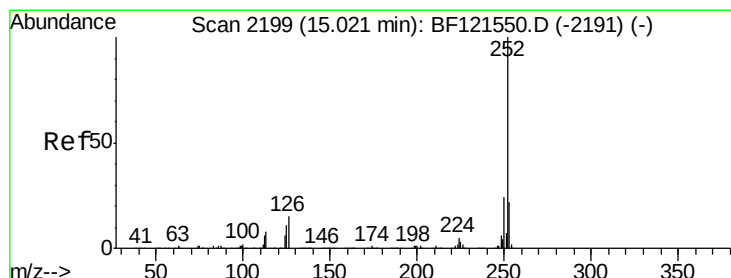
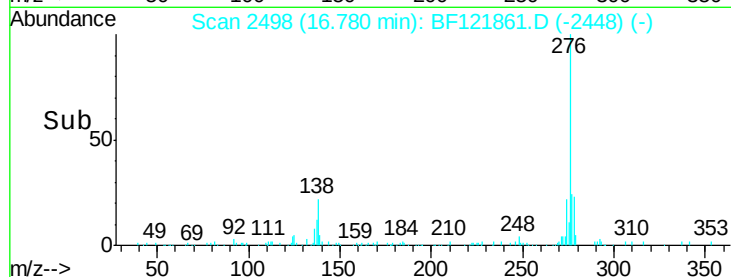
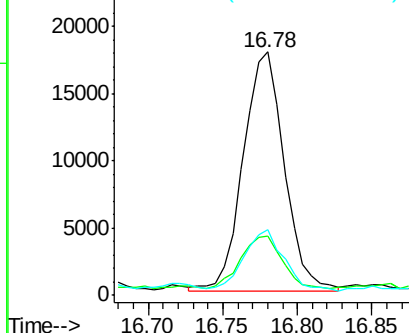
#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.107 ng  
 RT: 16.78 min Scan# 2498  
 Delta R.T. -0.01 min  
 Lab File: BF121861.D  
 Acq: 6 Oct 2020 19:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NP-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.4  | 19.9  | 29.9  |
| 277     | 25.4  | 20.4  | 30.6  |

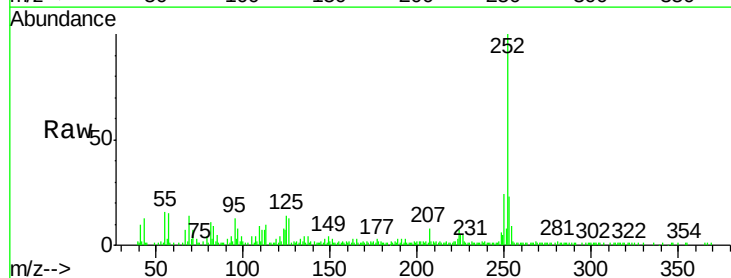


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

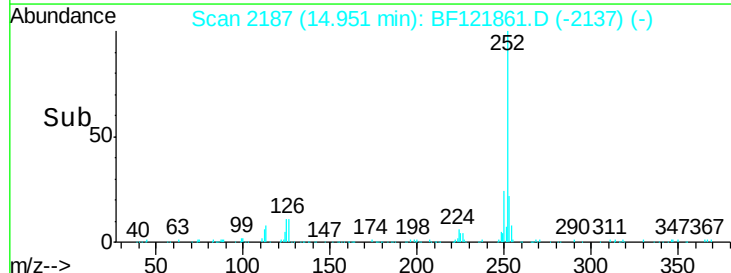
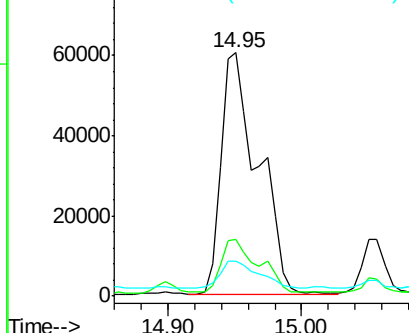


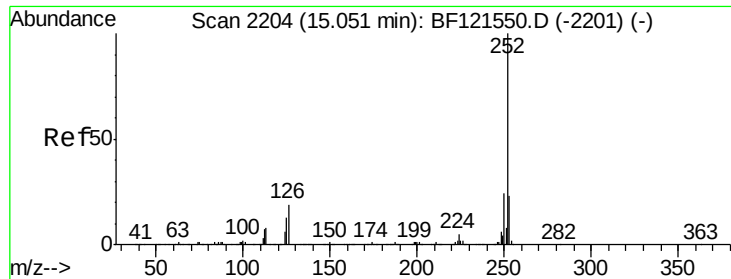
#88  
 Benzo(b)fluoranthene  
 Concen: 7.104 ng  
 RT: 14.95 min Scan# 2187  
 Delta R.T. -0.01 min  
 Lab File: BF121861.D  
 Acq: 6 Oct 2020 19:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.2  | 27.2  |
| 125     | 14.1  | 8.0   | 12.0  |



Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 253.00 (252.70 to 253.70): E  
 Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 7.757 ng

RT: 14.95 min Scan# 2187

Delta R.T. -0.04 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Instrument :

BNA\_F

ClientSampleId :

NP-SOIL

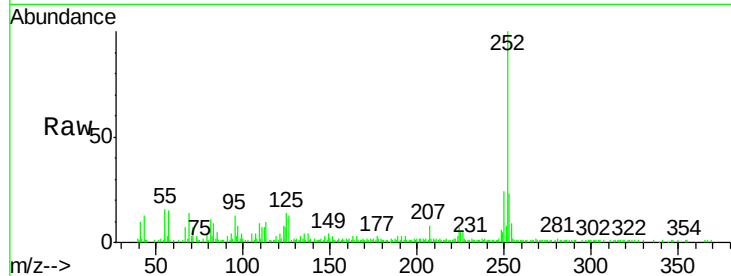
Tot Ion:252 Resp: 117100

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

125 14.1 7.7 11.5#

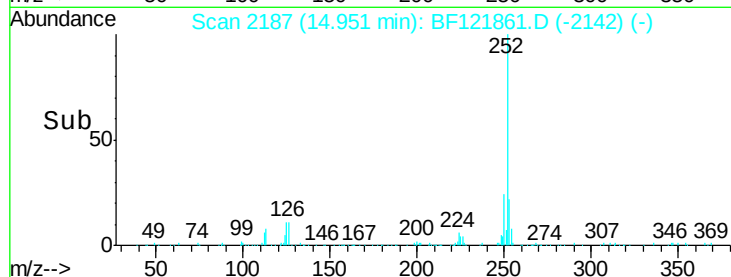


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

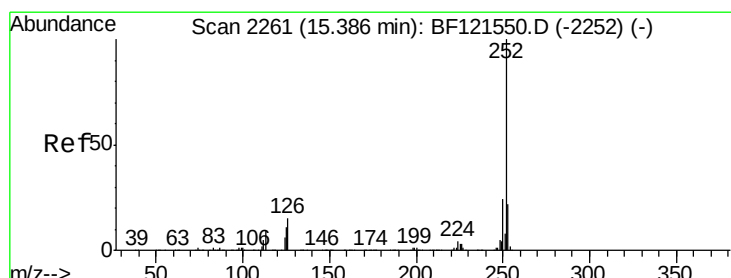
Ion 125.00 (124.70 to 125.70): E

Time-->



Abundance

Time-->



#90

Benzo(a)pyrene

Concen: 4.057 ng

RT: 15.30 min Scan# 2246

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

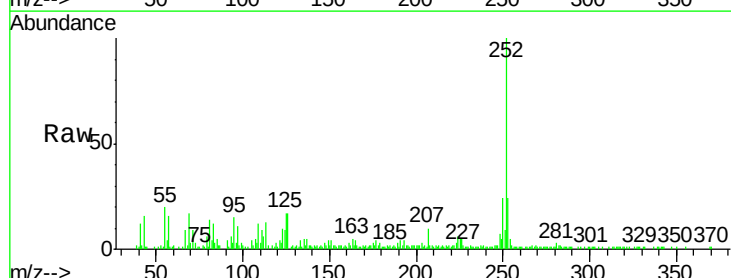
Tgt Ion:252 Resp: 56850

Ion Ratio Lower Upper

252 100

253 24.1 17.3 25.9

125 17.3 8.6 13.0#

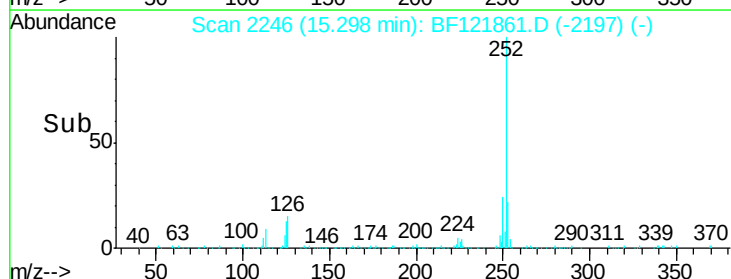


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

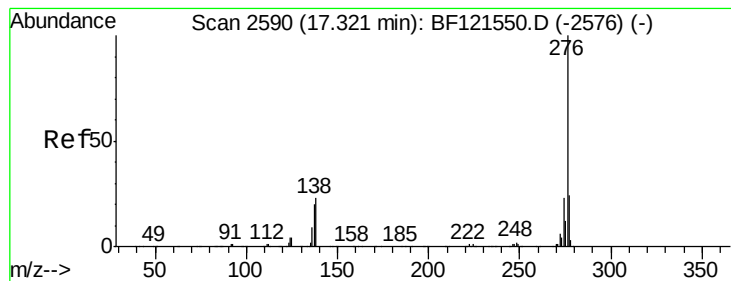
Ion 125.00 (124.70 to 125.70): E

Time-->



Abundance

Time-->



#92

Benzo(a,h,i)perylene

Concen: 2.274 ng

RT: 17.20 min Scan# 2570

Delta R.T. -0.01 min

Lab File: BF121861.D

Acq: 6 Oct 2020 19:33

Instrument :

BNA\_F

ClientSampleId :

NP-SOIL

Tot Ion: 276 Resp: 29885

Ion Ratio Lower Upper

276 100

277 27.5 19.4 29.2

138 24.9 17.8 26.6

