

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF112322\  
 Data File : BF131375.D  
 Acq On : 23 Nov 2022 22:44  
 Operator : CG\JU  
 Sample : N5641-15  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-PILE-15

Quant Time: Nov 24 05:58:30 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112122.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 24 05:53:32 2022  
 Response via : Initial Calibration

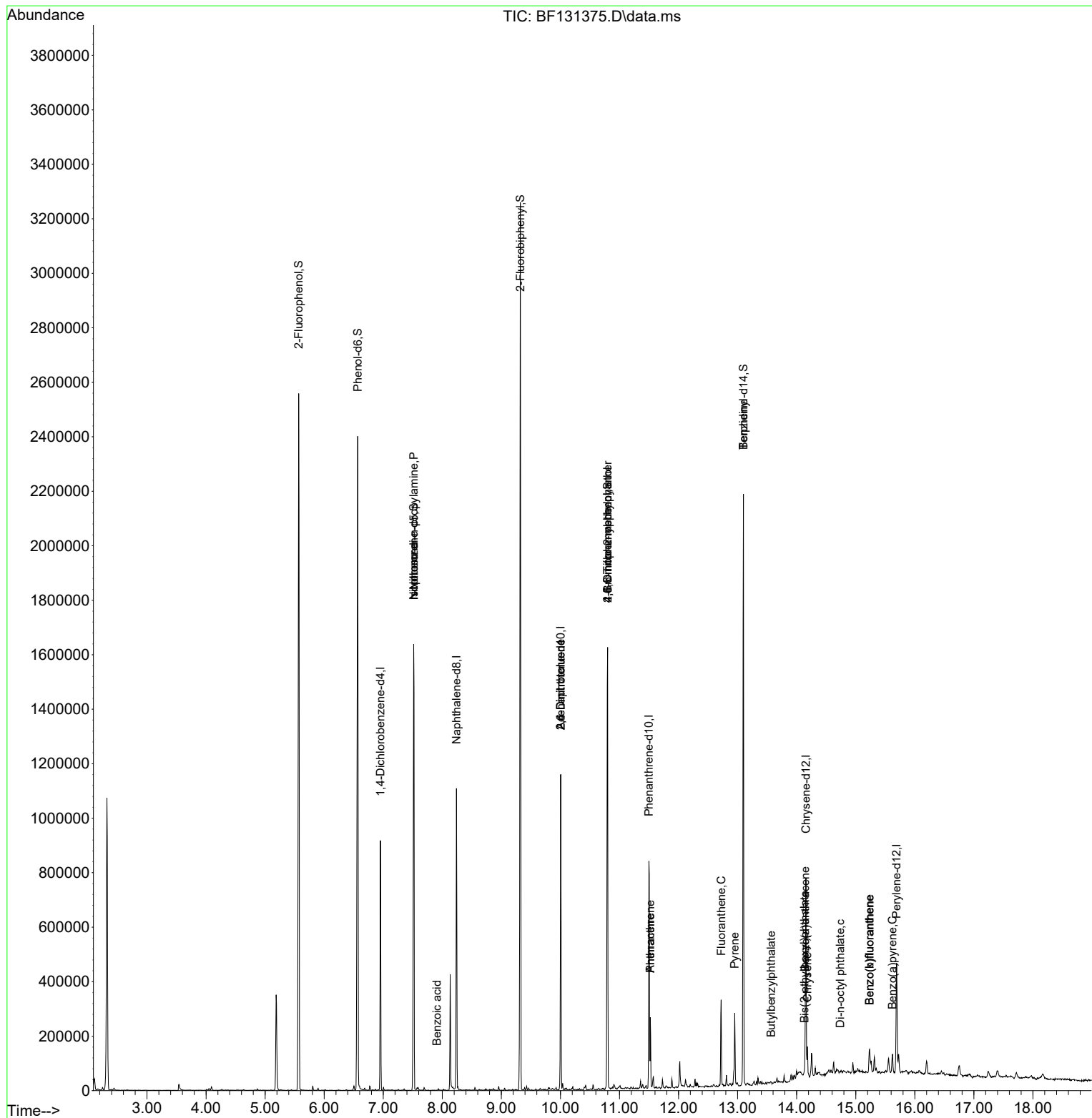
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.951  | 152  | 122072   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.239  | 136  | 419180   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 10.004 | 164  | 211727   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.498 | 188  | 318310   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 14.157 | 240  | 221426   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.692 | 264  | 192611   | 20.000    | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.569  | 112  | 685288   | 106.843   | ng    | 0.01     |
| 7) Phenol-d6                  | 6.569  | 99   | 835150   | 102.053   | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.516  | 82   | 553102   | 66.513    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.798 | 330  | 182256   | 102.318   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.322  | 172  | 919825   | 63.203    | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.098 | 244  | 720326   | 53.197    | ng    | 0.00     |
| Target Compounds              |        |      |          |           |       |          |
| 9) Benzaldehyde               | 6.504  | 77   | 181      | Below Cal |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.516  | 70   | 78314    | 13.072    | ng    | # 39     |
| 25) Isophorone                | 7.516  | 82   | 552211   | 37.221    | ng    | # 68     |
| 32) Benzoic acid              | 7.910  | 122  | 56       | 5.145     | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 10.004 | 165  | 27026    | 9.161     | ng    | # 14     |
| 57) 2,4-Dinitrotoluene        | 10.004 | 165  | 27026    | 7.281     | ng    | # 18     |
| 65) 4,6-Dinitro-2-methylph... | 10.798 | 198  | 485      | 4.972     | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.798 | 248  | 12487    | 3.201     | ng    | # 1      |
| 71) Phenanthrene              | 11.522 | 178  | 86652    | 5.037     | ng    | 98       |
| 72) Anthracene                | 11.522 | 178  | 86652    | 5.125     | ng    | 99       |
| 75) Fluoranthene              | 12.721 | 202  | 124437   | 6.865     | ng    | 99       |
| 77) Benzidine                 | 13.098 | 184  | 9476     | 2.317     | ng    | # 96     |
| 78) Pyrene                    | 12.951 | 202  | 105528   | 5.402     | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.568 | 149  | 794      | 4.254     | ng    | # 66     |
| 81) Benzo(a)anthracene        | 14.145 | 228  | 44051    | 2.902     | ng    | 98       |
| 83) Chrysene                  | 14.180 | 228  | 38902    | 2.612     | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 14.133 | 149  | 3553     | 4.124     | ng    | # 98     |
| 85) Di-n-octyl phthalate      | 14.739 | 149  | 305      | 3.930     | ng    | # 1      |
| 88) Benzo(b)fluoranthene      | 15.233 | 252  | 66326    | 5.184     | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.233 | 252  | 66326    | 5.044     | ng    | # 97     |
| 90) Benzo(a)pyrene            | 15.621 | 252  | 34031    | 3.241     | ng    | 99       |

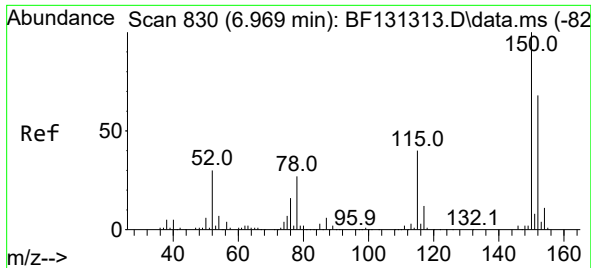
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF112322\  
Data File : BF131375.D  
Acq On : 23 Nov 2022 22:44  
Operator : CG\JU  
Sample : N5641-15  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

Quant Time: Nov 24 05:58:30 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 24 05:53:32 2022  
Response via : Initial Calibration

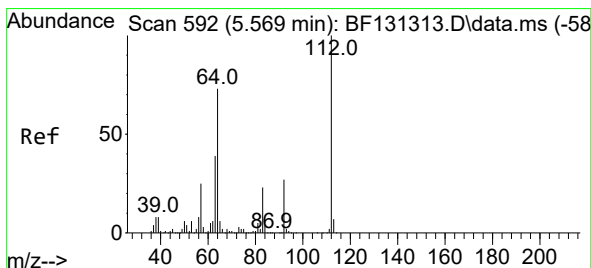
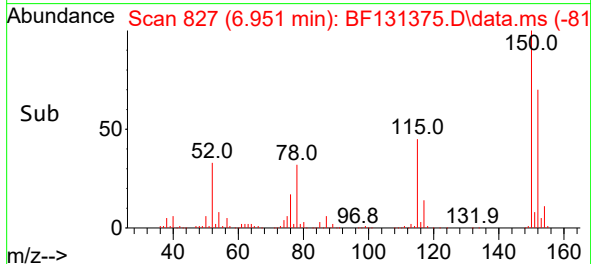
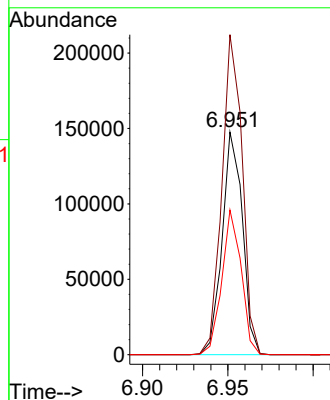
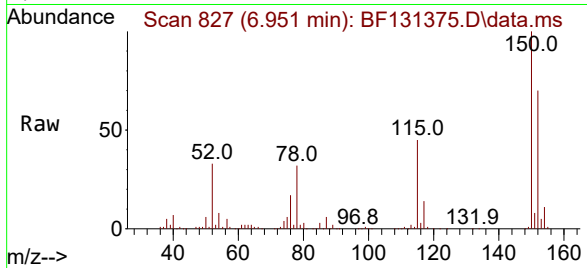




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.951 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

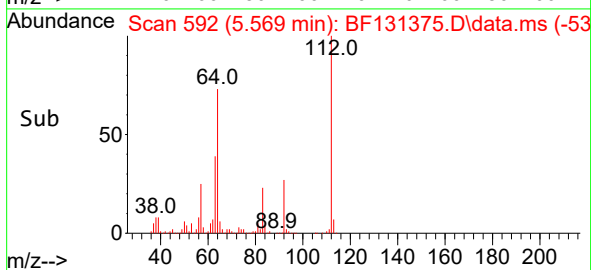
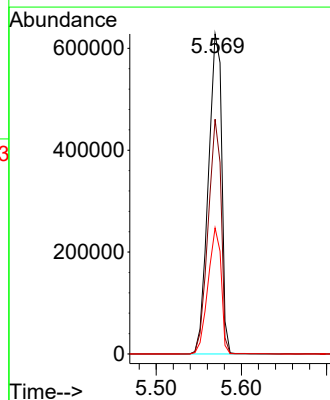
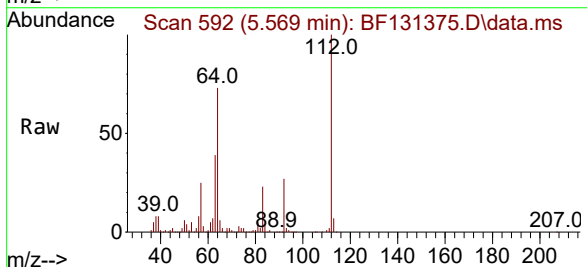
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

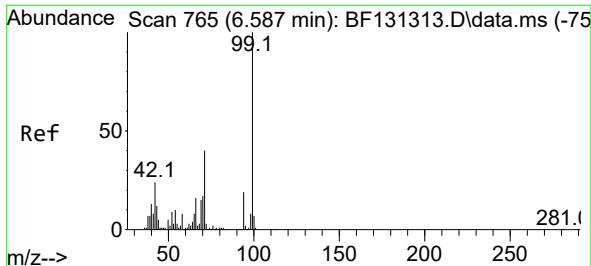
Tgt Ion:152 Resp: 122072  
Ion Ratio Lower Upper  
152 100  
150 143.7 117.8 176.8  
115 65.0 47.1 70.7



#5  
2-Fluorophenol  
Concen: 106.843 ng  
RT: 5.569 min Scan# 592  
Delta R.T. 0.012 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:112 Resp: 685288  
Ion Ratio Lower Upper  
112 100  
64 73.3 58.6 88.0  
63 39.4 31.4 47.0

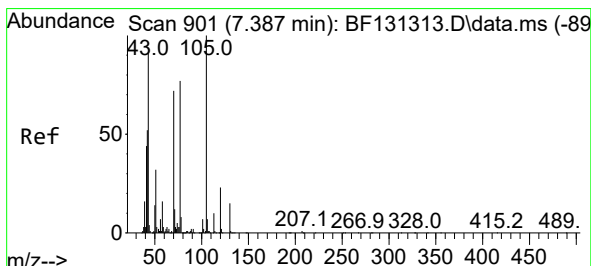
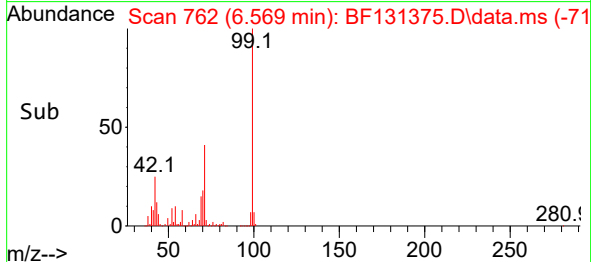
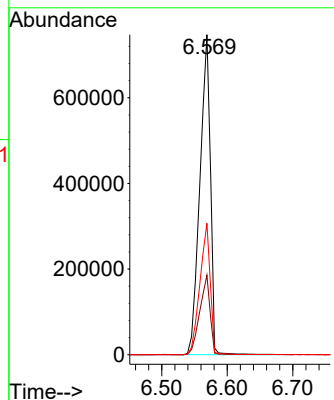
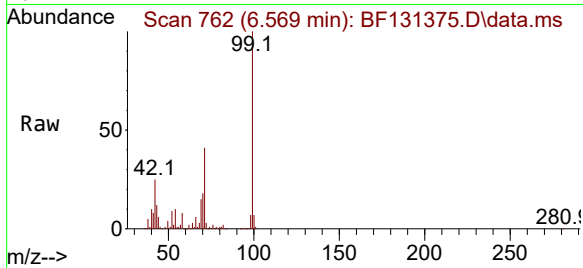




#7  
Phenol-d6  
Concen: 102.053 ng  
RT: 6.569 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

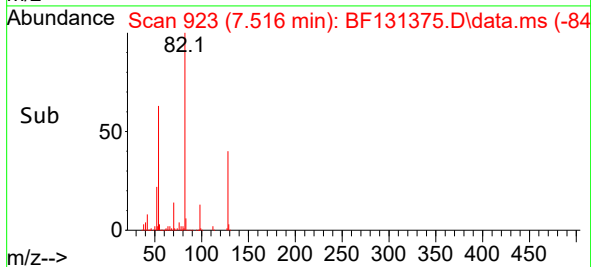
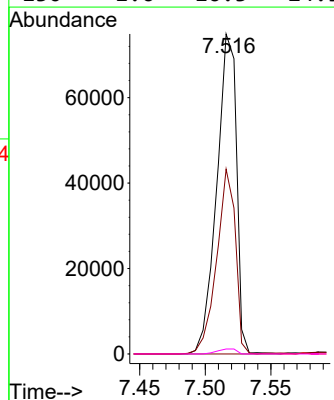
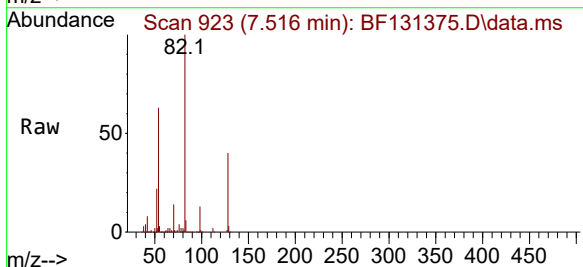
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

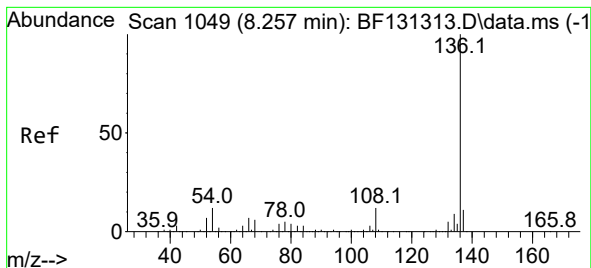
Tgt Ion: 99 Resp: 835150  
Ion Ratio Lower Upper  
99 100  
42 24.9 19.4 29.2  
71 41.1 32.3 48.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 13.072 ng  
RT: 7.516 min Scan# 923  
Delta R.T. 0.147 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion: 70 Resp: 78314  
Ion Ratio Lower Upper  
70 100  
42 57.8 57.6 86.4  
101 0.0 8.2 12.2#  
130 1.6 16.3 24.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.239 min Scan# 1046

Delta R.T. -0.006 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

Instrument :

BNA\_F

ClientSampleId :

SOIL-PILE-15

Tgt Ion:136 Resp: 419180

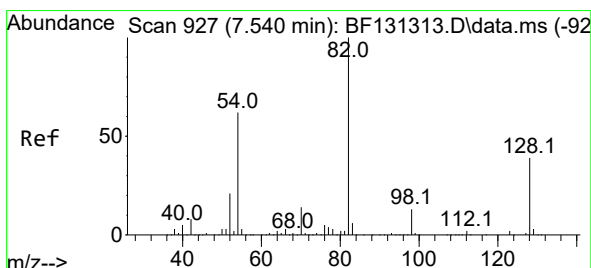
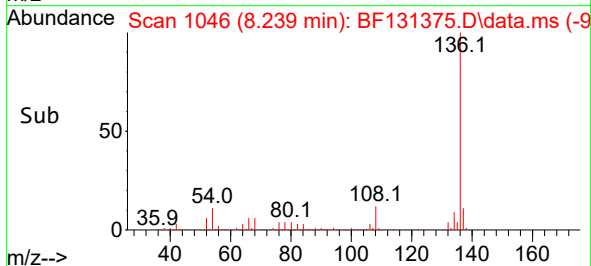
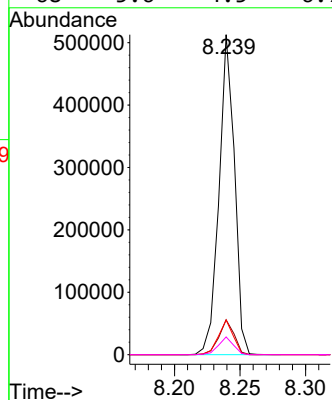
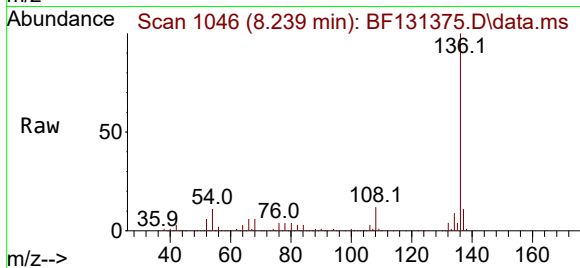
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.6

54 10.9 9.4 14.0

68 5.6 4.5 6.7



#23

Nitrobenzene-d5

Concen: 66.513 ng

RT: 7.516 min Scan# 923

Delta R.T. -0.006 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

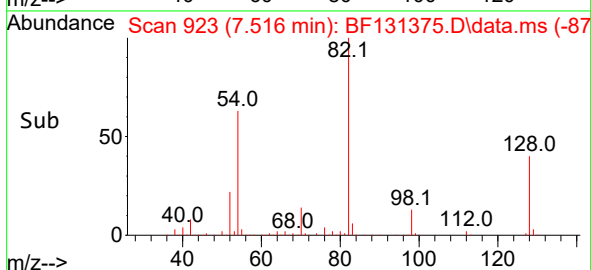
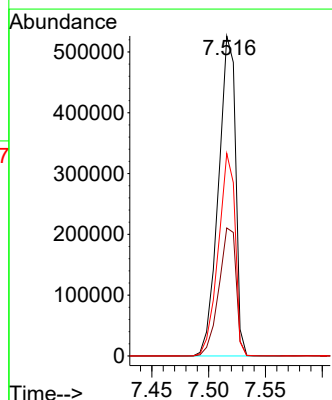
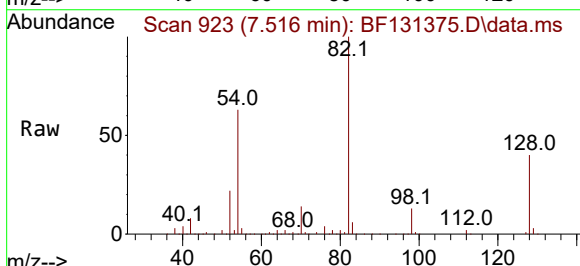
Tgt Ion: 82 Resp: 553102

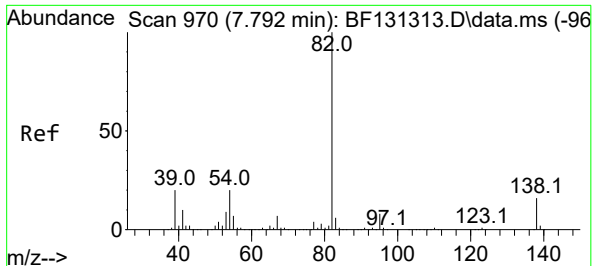
Ion Ratio Lower Upper

82 100

128 40.0 31.4 47.0

54 63.3 49.8 74.6





#25

Isophorone

Concen: 37.221 ng

RT: 7.516 min Scan# 91

Delta R.T. -0.265 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

Instrument :

BNA\_F

ClientSampleId :

SOIL-PILE-15

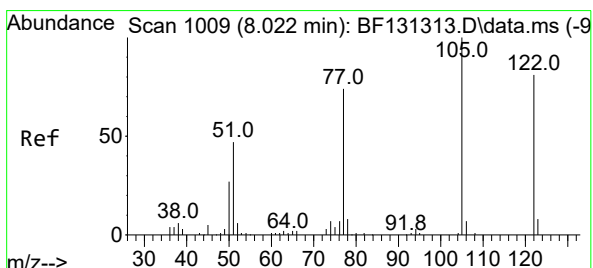
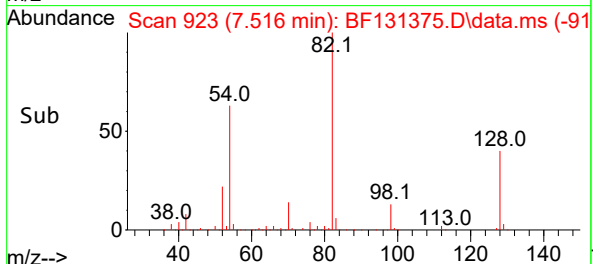
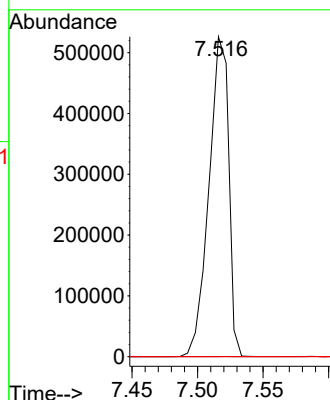
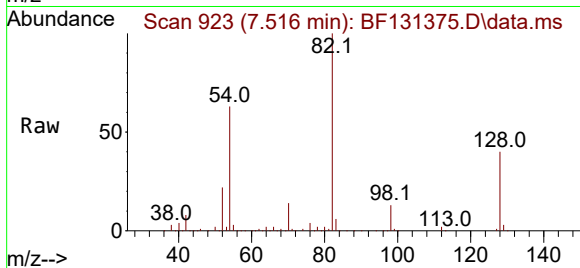
Tgt Ion: 82 Resp: 552211

Ion Ratio Lower Upper

82 100

95 0.0 6.2 9.2#

138 0.0 12.7 19.1#



#32

Benzoic acid

Concen: 5.145 ng

RT: 7.910 min Scan# 990

Delta R.T. -0.088 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

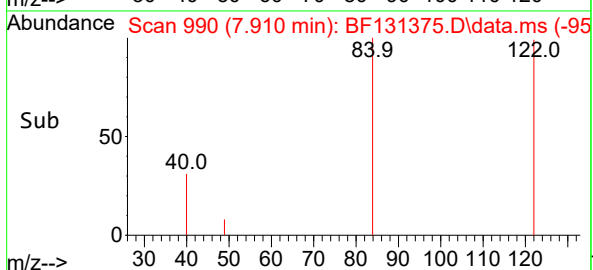
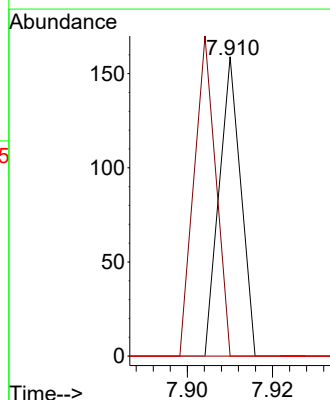
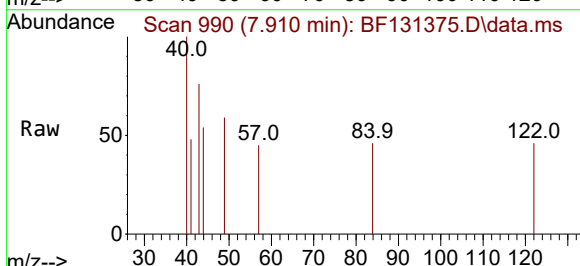
Tgt Ion: 122 Resp: 56

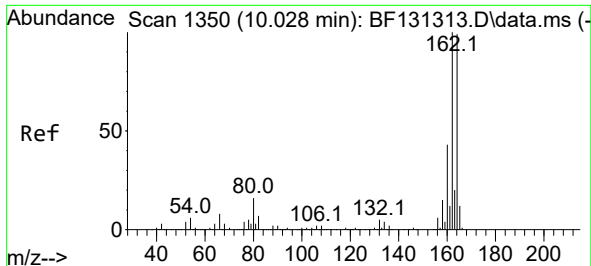
Ion Ratio Lower Upper

122 100

105 0.0 103.8 143.8#

77 0.0 74.3 114.3#

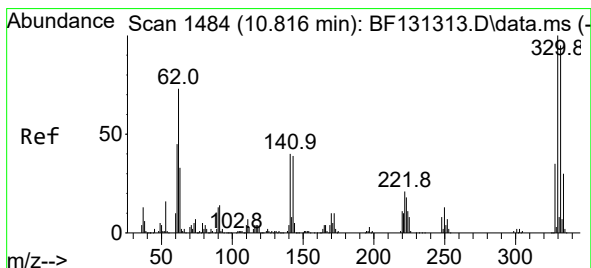
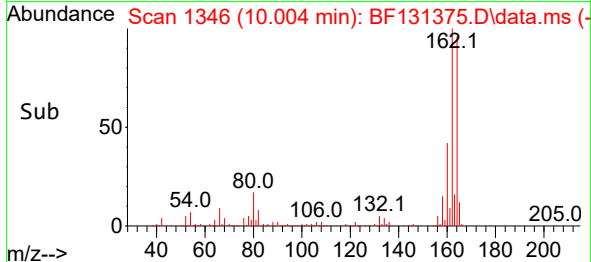
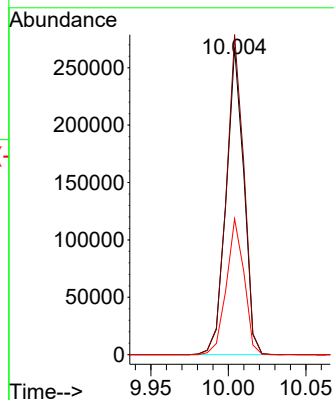
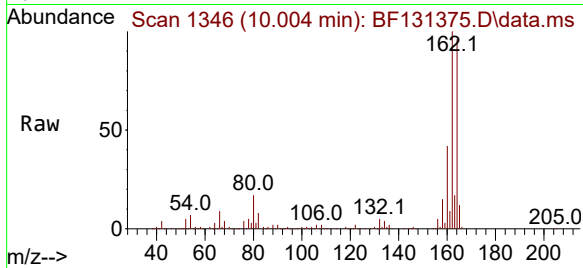




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.004 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

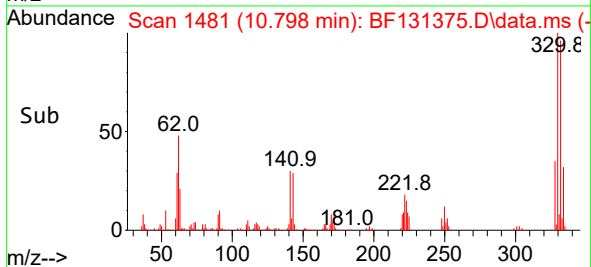
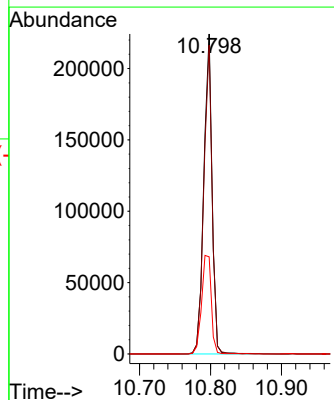
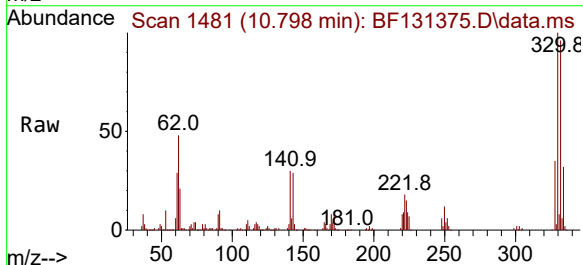
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

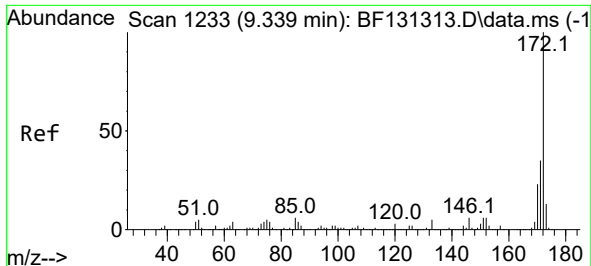
Tgt Ion:164 Resp: 211727  
Ion Ratio Lower Upper  
164 100  
162 104.2 80.6 120.8  
160 44.2 34.4 51.6



#42  
2,4,6-Tribromophenol  
Concen: 102.318 ng  
RT: 10.798 min Scan# 1481  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:330 Resp: 182256  
Ion Ratio Lower Upper  
330 100  
332 96.7 77.5 116.3  
141 36.0 29.3 43.9





#45

2-Fluorobiphenyl

Concen: 63.203 ng

RT: 9.322 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

Instrument :

BNA\_F

ClientSampleId :

SOIL-PILE-15

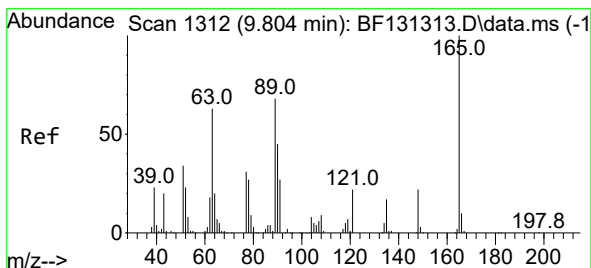
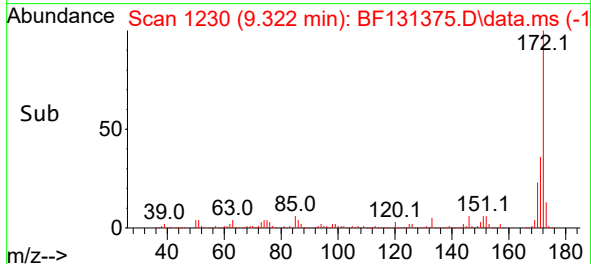
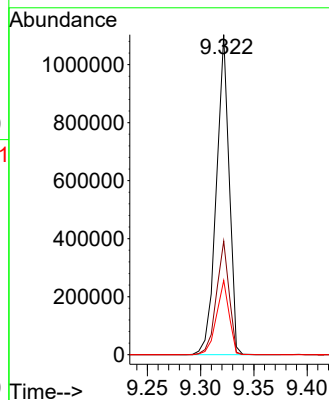
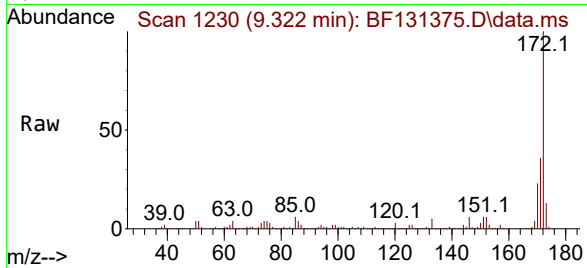
Tgt Ion:172 Resp: 919825

Ion Ratio Lower Upper

172 100

171 35.5 28.2 42.2

170 23.2 18.7 28.1



#51

2,6-Dinitrotoluene

Concen: 9.161 ng

RT: 10.004 min Scan# 1346

Delta R.T. 0.212 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

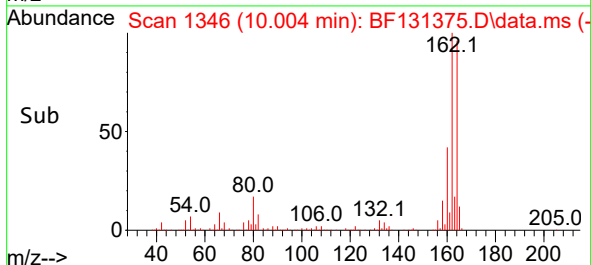
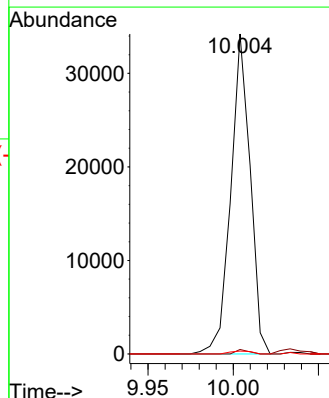
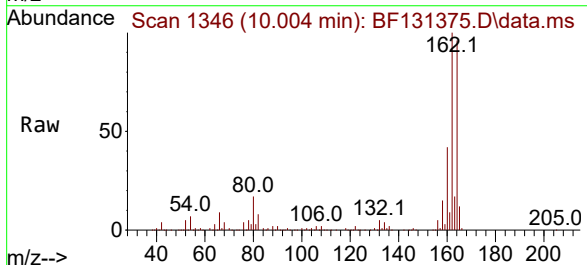
Tgt Ion:165 Resp: 27026

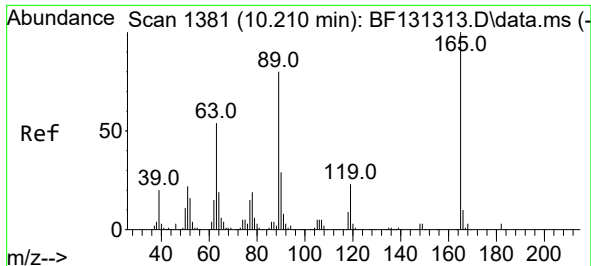
Ion Ratio Lower Upper

165 100

63 1.4 62.0 93.0#

89 0.9 54.4 81.6#

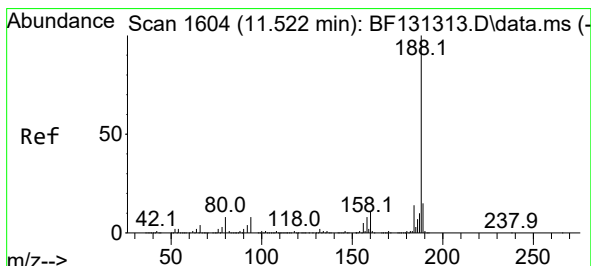
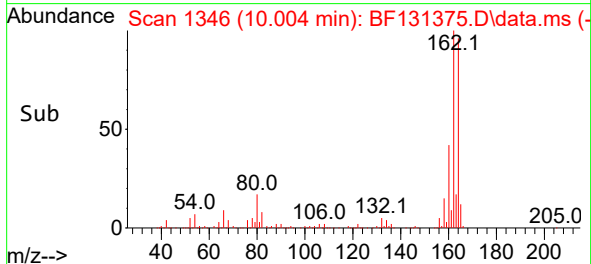
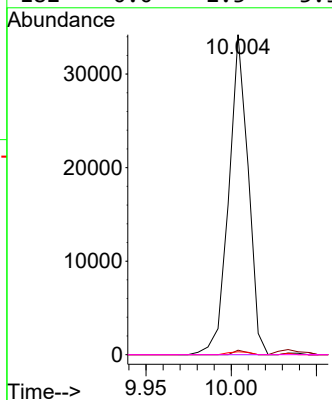
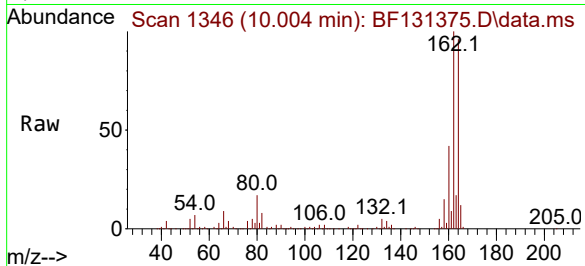




#57  
2,4-Dinitrotoluene  
Concen: 7.281 ng  
RT: 10.004 min Scan# 11  
Delta R.T. -0.188 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

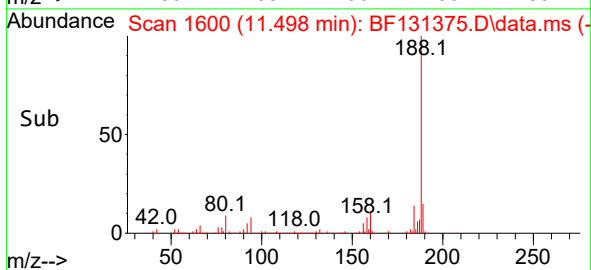
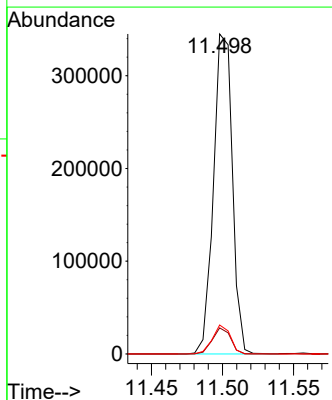
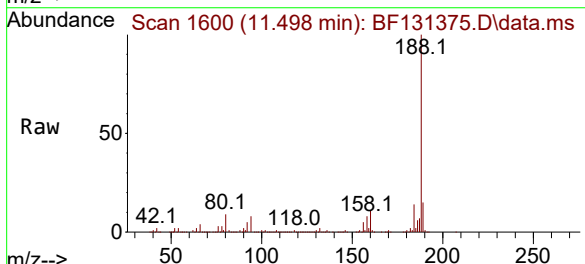
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

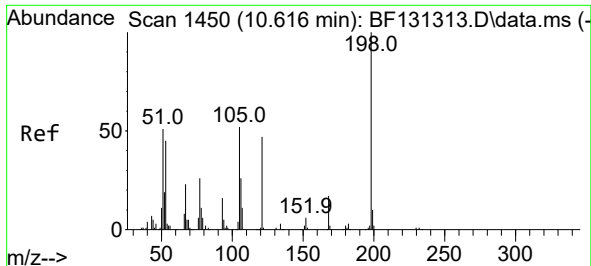
Tgt Ion:165 Resp: 27026  
Ion Ratio Lower Upper  
165 100  
63 1.4 43.4 65.2#  
89 0.9 64.0 96.0#  
182 0.0 2.3 3.5#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.498 min Scan# 1600  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:188 Resp: 318310  
Ion Ratio Lower Upper  
188 100  
94 8.1 6.3 9.5  
80 9.1 6.8 10.2

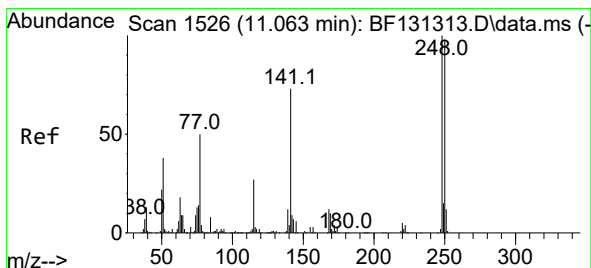
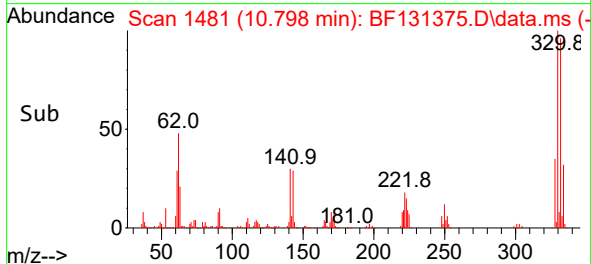
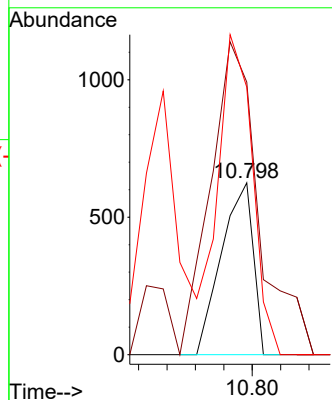
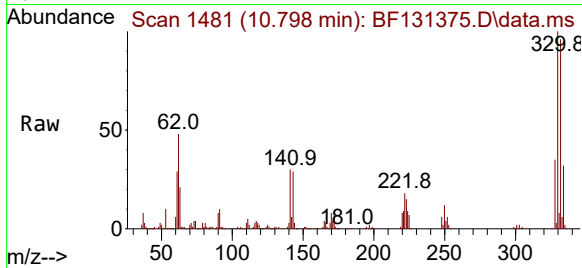




#65  
4,6-Dinitro-2-methylphenol  
Concen: 4.972 ng  
RT: 10.798 min Scan# 1450  
Delta R.T. 0.194 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

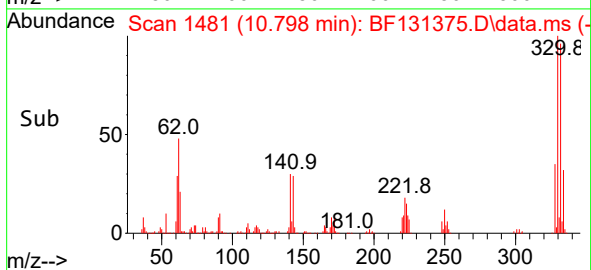
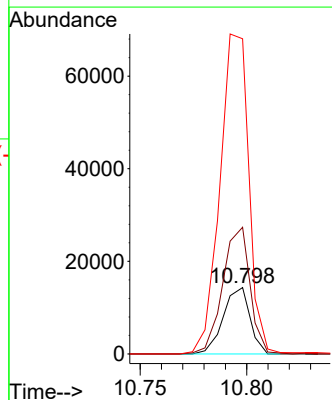
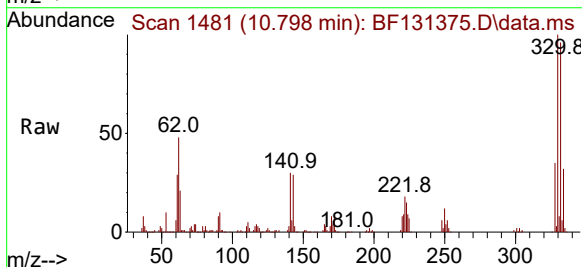
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

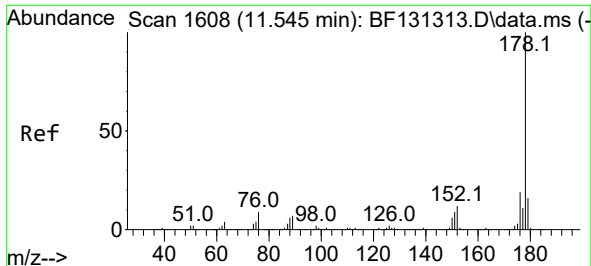
Tgt Ion:198 Resp: 485  
Ion Ratio Lower Upper  
198 100  
51 158.7 50.1 90.1#  
105 155.7 32.5 72.5#



#67  
4-Bromophenyl-phenylether  
Concen: 3.201 ng  
RT: 10.798 min Scan# 1481  
Delta R.T. -0.247 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:248 Resp: 12487  
Ion Ratio Lower Upper  
248 100  
250 190.9 78.3 117.5#  
141 474.5 58.0 87.0#

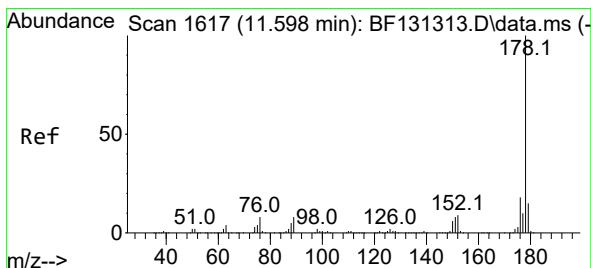
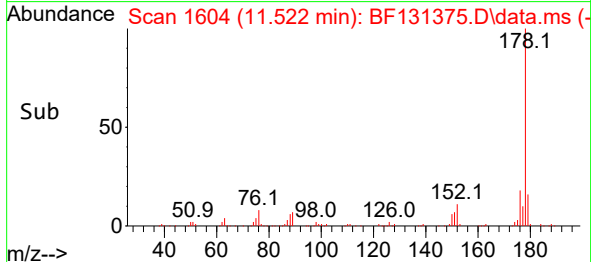
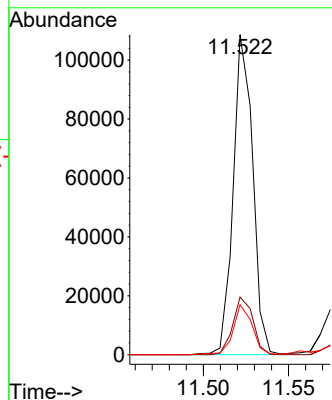
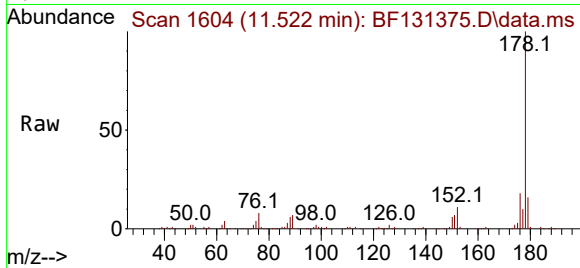




#71  
Phenanthrene  
Concen: 5.037 ng  
RT: 11.522 min Scan# 1604  
Delta R.T. -0.012 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

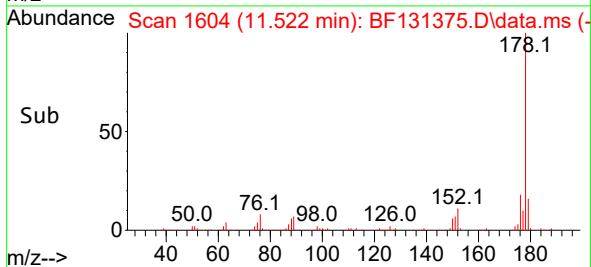
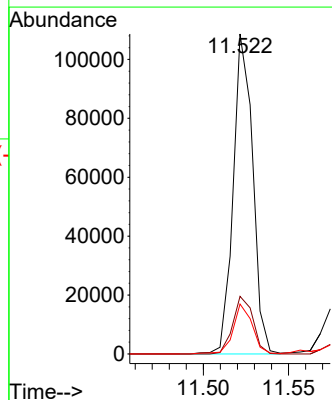
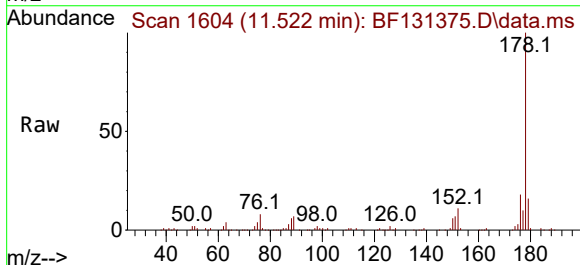
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

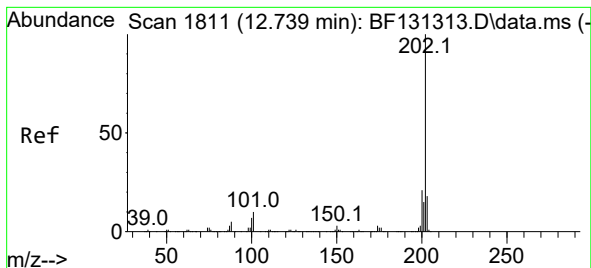
Tgt Ion:178 Resp: 86652  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.6 23.4  
179 15.6 12.4 18.6



#72  
Anthracene  
Concen: 5.125 ng  
RT: 11.522 min Scan# 1604  
Delta R.T. -0.059 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:178 Resp: 86652  
Ion Ratio Lower Upper  
178 100  
176 18.0 14.7 22.1  
179 15.6 12.2 18.4





#75

Fluoranthene

Concen: 6.865 ng

RT: 12.721 min Scan# 1808

Delta R.T. -0.006 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

Instrument :

BNA\_F

ClientSampleId :

SOIL-PILE-15

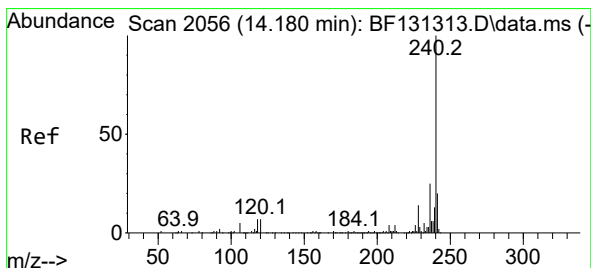
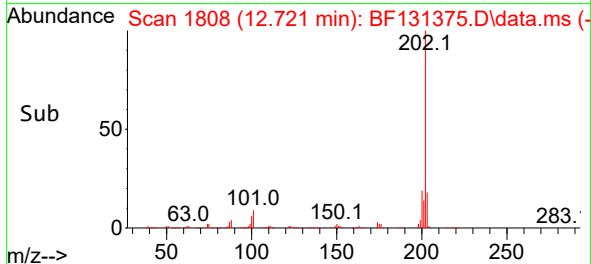
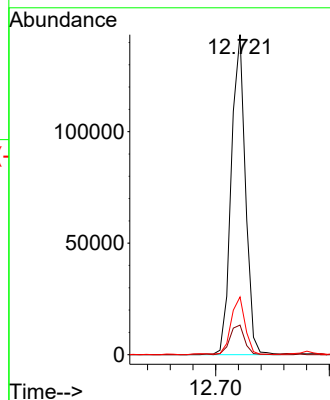
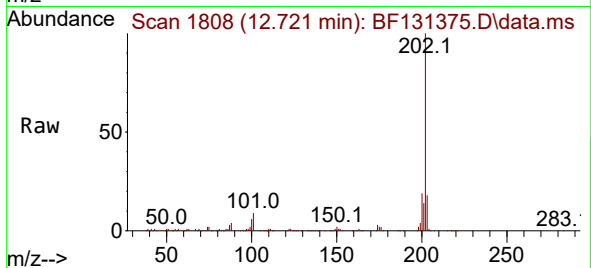
Tgt Ion:202 Resp: 124437

Ion Ratio Lower Upper

202 100

101 9.3 0.0 29.6

203 18.0 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.157 min Scan# 2052

Delta R.T. -0.006 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

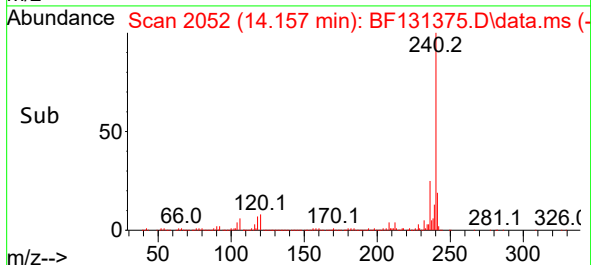
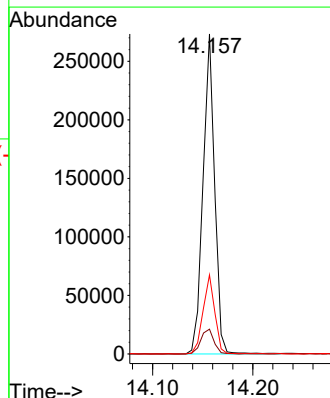
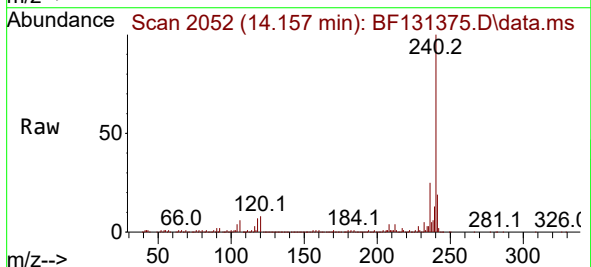
Tgt Ion:240 Resp: 221426

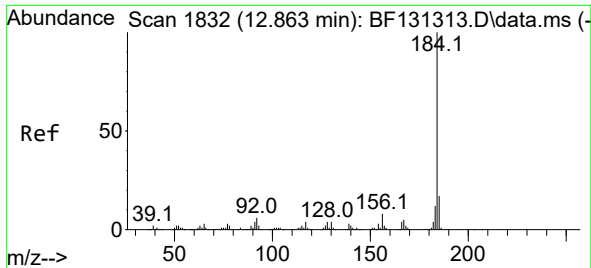
Ion Ratio Lower Upper

240 100

120 7.7 5.8 8.8

236 24.7 20.3 30.5

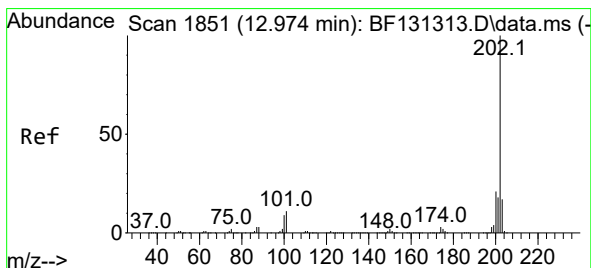
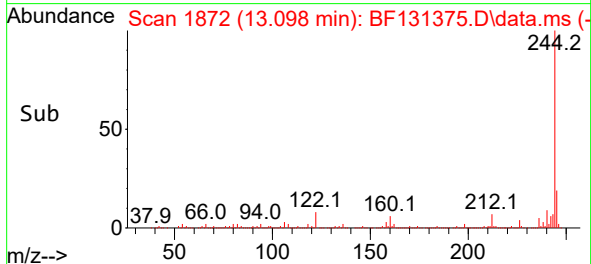
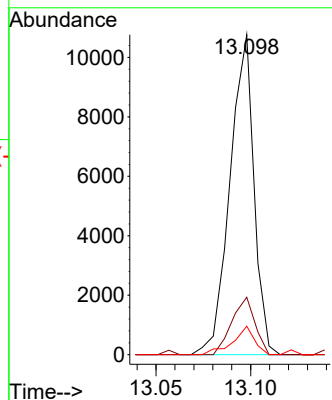
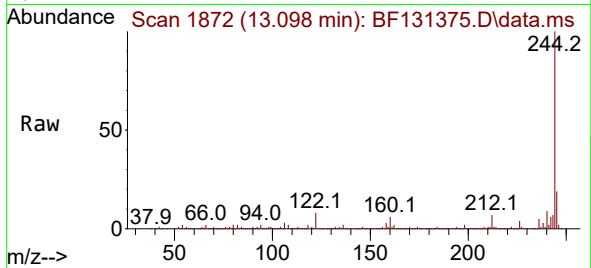




#77  
Benzidine  
Concen: 2.317 ng  
RT: 13.098 min Scan# 1872  
Delta R.T. 0.253 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

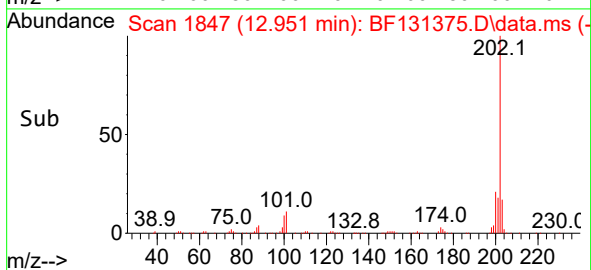
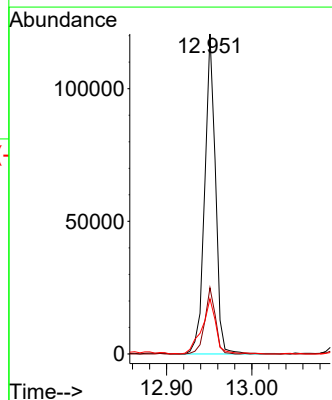
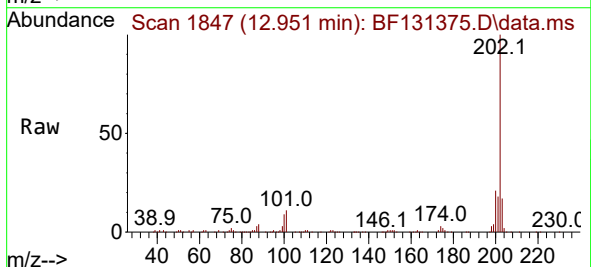
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

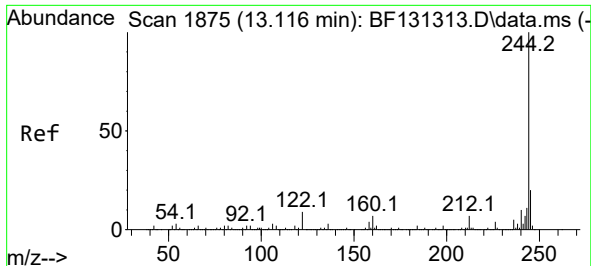
Tgt Ion:184 Resp: 9476  
Ion Ratio Lower Upper  
184 100  
185 18.0 13.8 20.8  
183 8.9 9.6 14.4#



#78  
Pyrene  
Concen: 5.402 ng  
RT: 12.951 min Scan# 1847  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:202 Resp: 105528  
Ion Ratio Lower Upper  
202 100  
200 20.7 16.9 25.3  
203 17.3 13.9 20.9

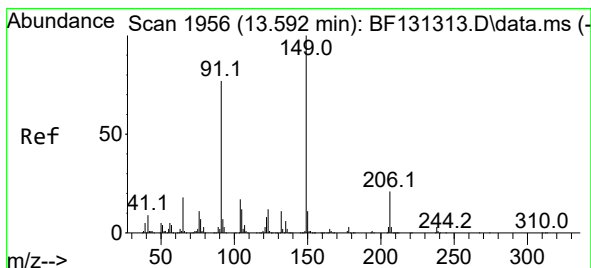
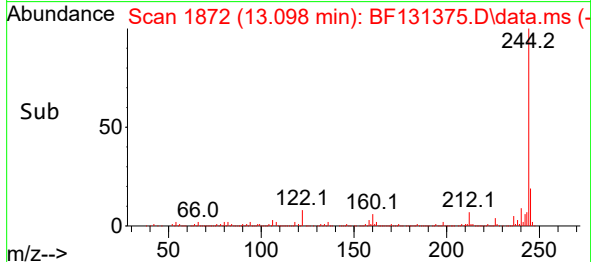
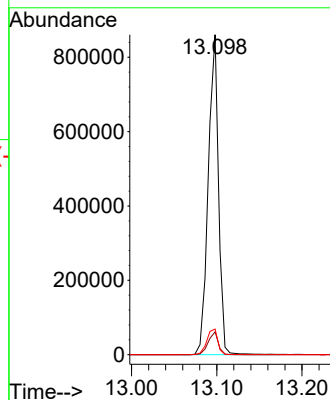
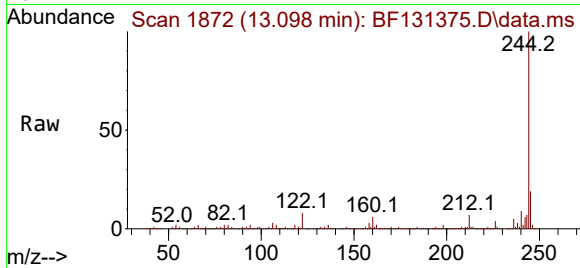




#79  
Terphenyl-d14  
Concen: 53.197 ng  
RT: 13.098 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

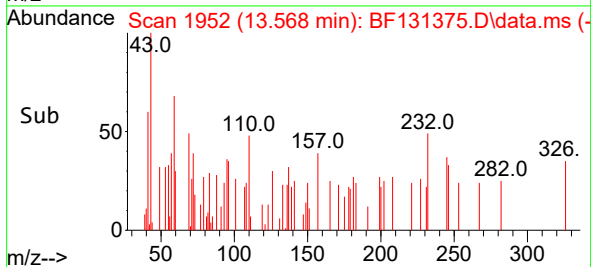
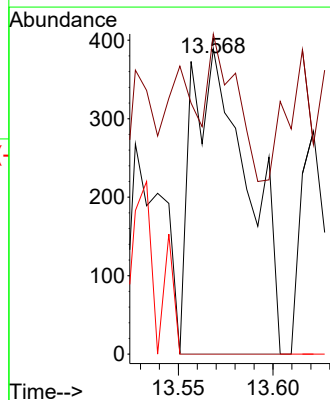
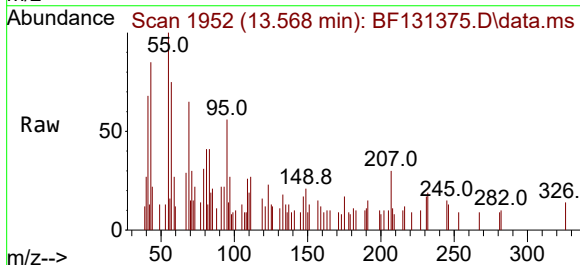
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

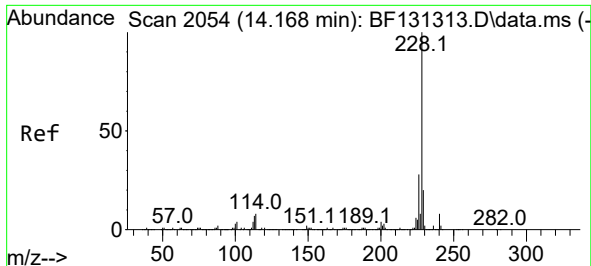
Tgt Ion:244 Resp: 720326  
Ion Ratio Lower Upper  
244 100  
212 7.2 5.9 8.9  
122 8.0 7.5 11.3



#80  
Butylbenzylphthalate  
Concen: 4.254 ng  
RT: 13.568 min Scan# 1952  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:149 Resp: 794  
Ion Ratio Lower Upper  
149 100  
91 104.9 61.9 92.9#  
206 0.0 16.5 24.7#

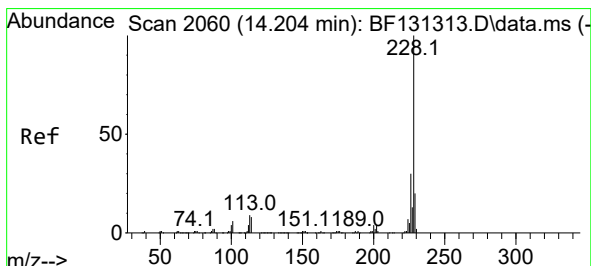
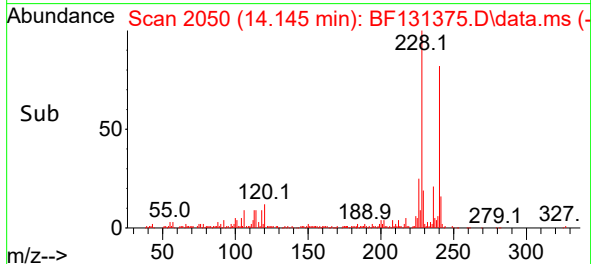
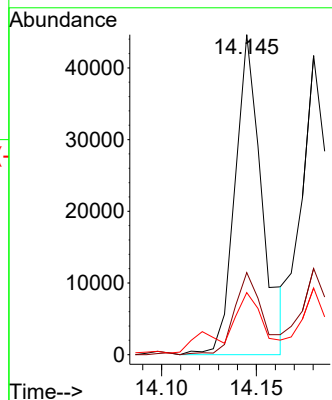
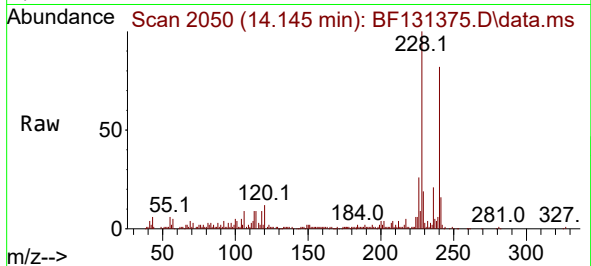




#81  
Benzo(a)anthracene  
Concen: 2.902 ng  
RT: 14.145 min Scan# 2050  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

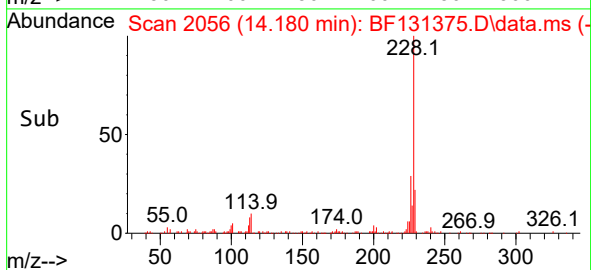
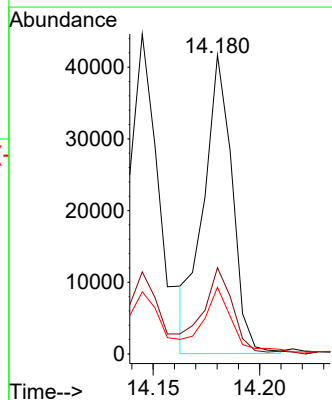
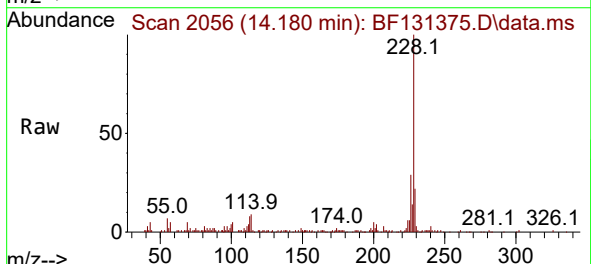
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

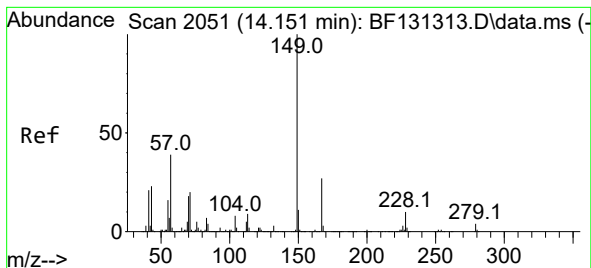
Tgt Ion:228 Resp: 44051  
Ion Ratio Lower Upper  
228 100  
226 25.7 22.0 33.0  
229 19.4 15.7 23.5



#83  
Chrysene  
Concen: 2.612 ng  
RT: 14.180 min Scan# 2056  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:228 Resp: 38902  
Ion Ratio Lower Upper  
228 100  
226 28.8 23.7 35.5  
229 22.3 16.2 24.4

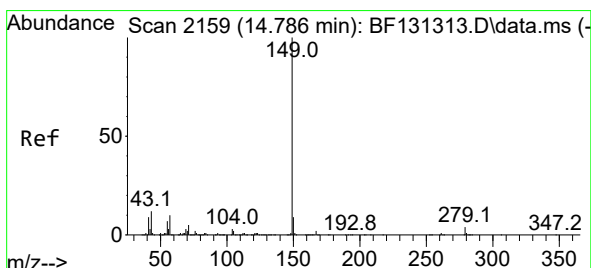
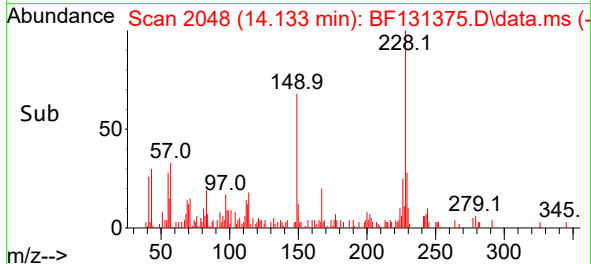
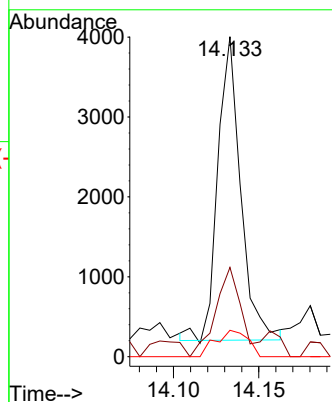
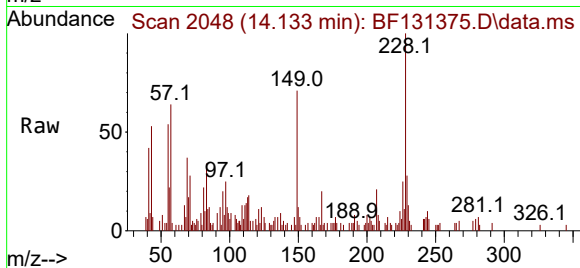




#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.124 ng  
 RT: 14.133 min Scan# 2048  
 Delta R.T. -0.000 min  
 Lab File: BF131375.D  
 Acq: 23 Nov 2022 22:44

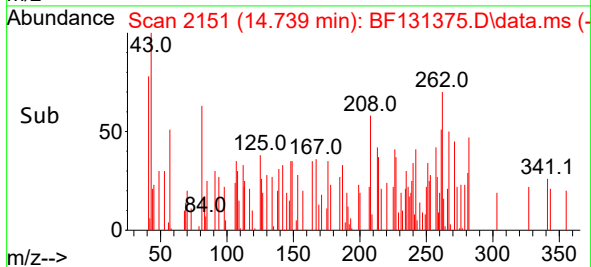
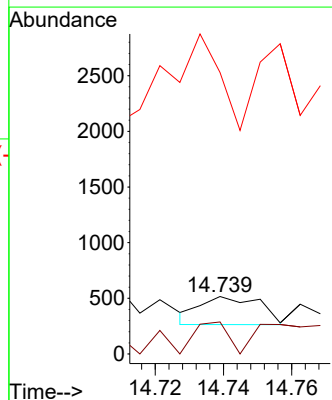
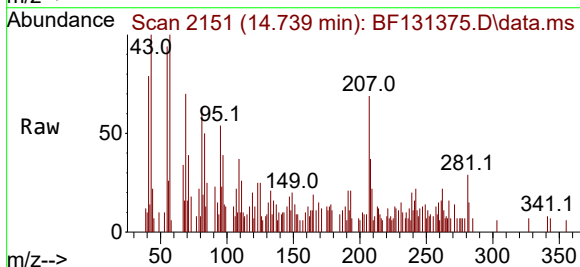
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-PILE-15

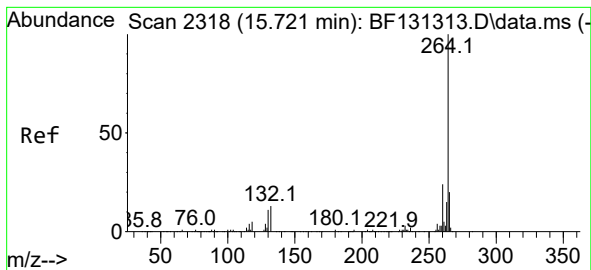
Tgt Ion:149 Resp: 3553  
 Ion Ratio Lower Upper  
 149 100  
 167 27.9 21.9 32.9  
 279 8.3 3.0 4.4#



#85  
 Di-n-octyl phthalate  
 Concen: 3.930 ng  
 RT: 14.739 min Scan# 2151  
 Delta R.T. -0.024 min  
 Lab File: BF131375.D  
 Acq: 23 Nov 2022 22:44

Tgt Ion:149 Resp: 305  
 Ion Ratio Lower Upper  
 149 100  
 167 88.9 1.2 1.8#  
 43 294.8 10.7 16.1#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.692 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

Instrument :

BNA\_F

ClientSampleId :

SOIL-PILE-15

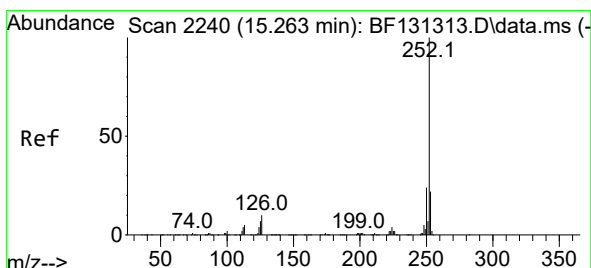
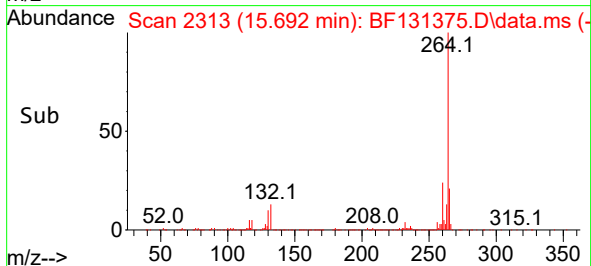
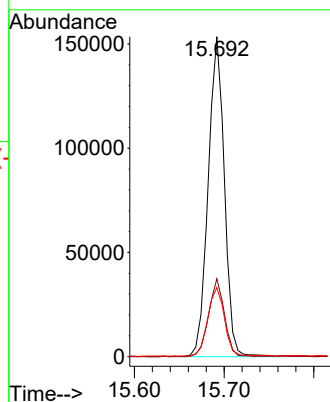
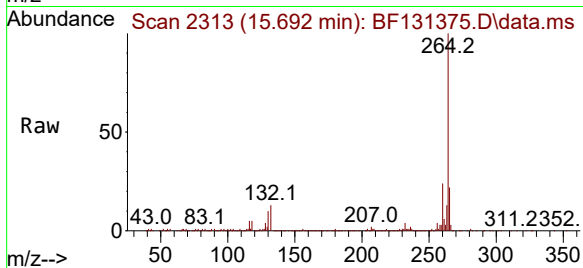
Tgt Ion:264 Resp: 192611

Ion Ratio Lower Upper

264 100

260 24.3 19.0 28.4

265 21.6 16.4 24.6



#88

Benzo(b)fluoranthene

Concen: 5.184 ng

RT: 15.233 min Scan# 2235

Delta R.T. -0.006 min

Lab File: BF131375.D

Acq: 23 Nov 2022 22:44

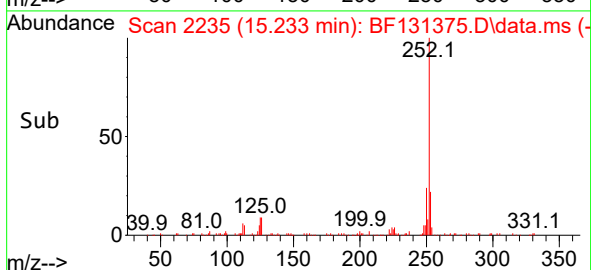
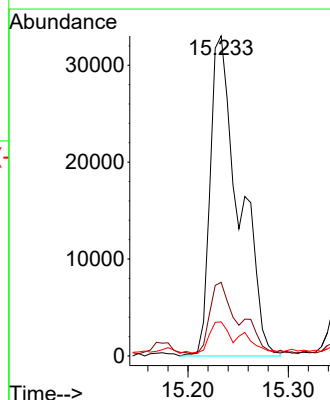
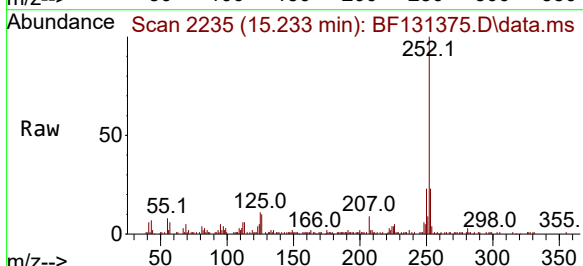
Tgt Ion:252 Resp: 66326

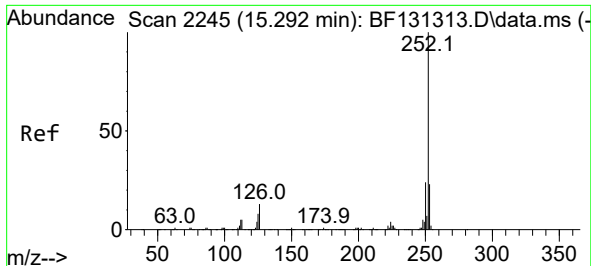
Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 10.7 5.8 8.6#

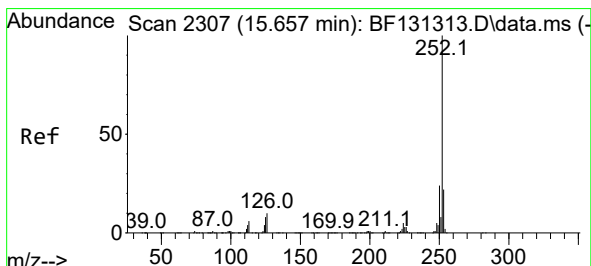
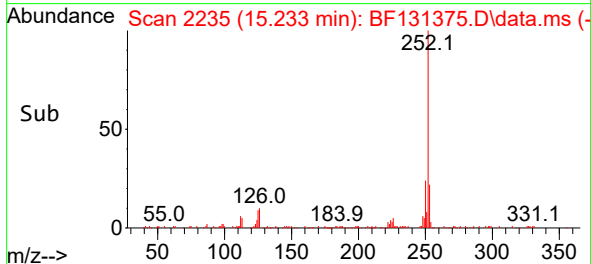
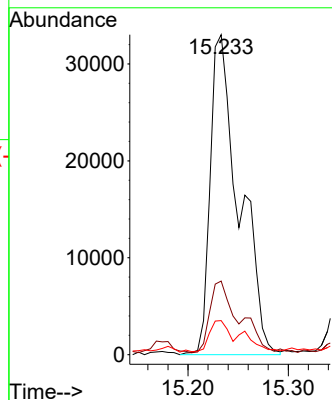
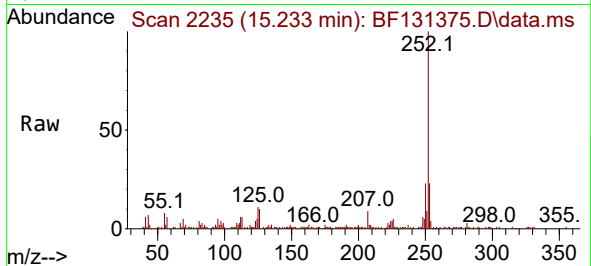




#89  
Benzo(k)fluoranthene  
Concen: 5.044 ng  
RT: 15.233 min Scan# 21  
Delta R.T. -0.035 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE-15

Tgt Ion:252 Resp: 66326  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.9 26.9  
125 10.7 6.6 10.0#



#90  
Benzo(a)pyrene  
Concen: 3.241 ng  
RT: 15.621 min Scan# 2301  
Delta R.T. -0.006 min  
Lab File: BF131375.D  
Acq: 23 Nov 2022 22:44

Tgt Ion:252 Resp: 34031  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.5 26.3  
125 8.4 6.1 9.1

