

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082322\  
 Data File : BF129964.D  
 Acq On : 23 Aug 2022 21:28  
 Operator : CG\JU  
 Sample : N4295-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 XRDS-RECYCLED-SAND-SP-A-COMP

Quant Time: Aug 24 02:00:36 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 23 04:41:40 2022  
 Response via : Initial Calibration

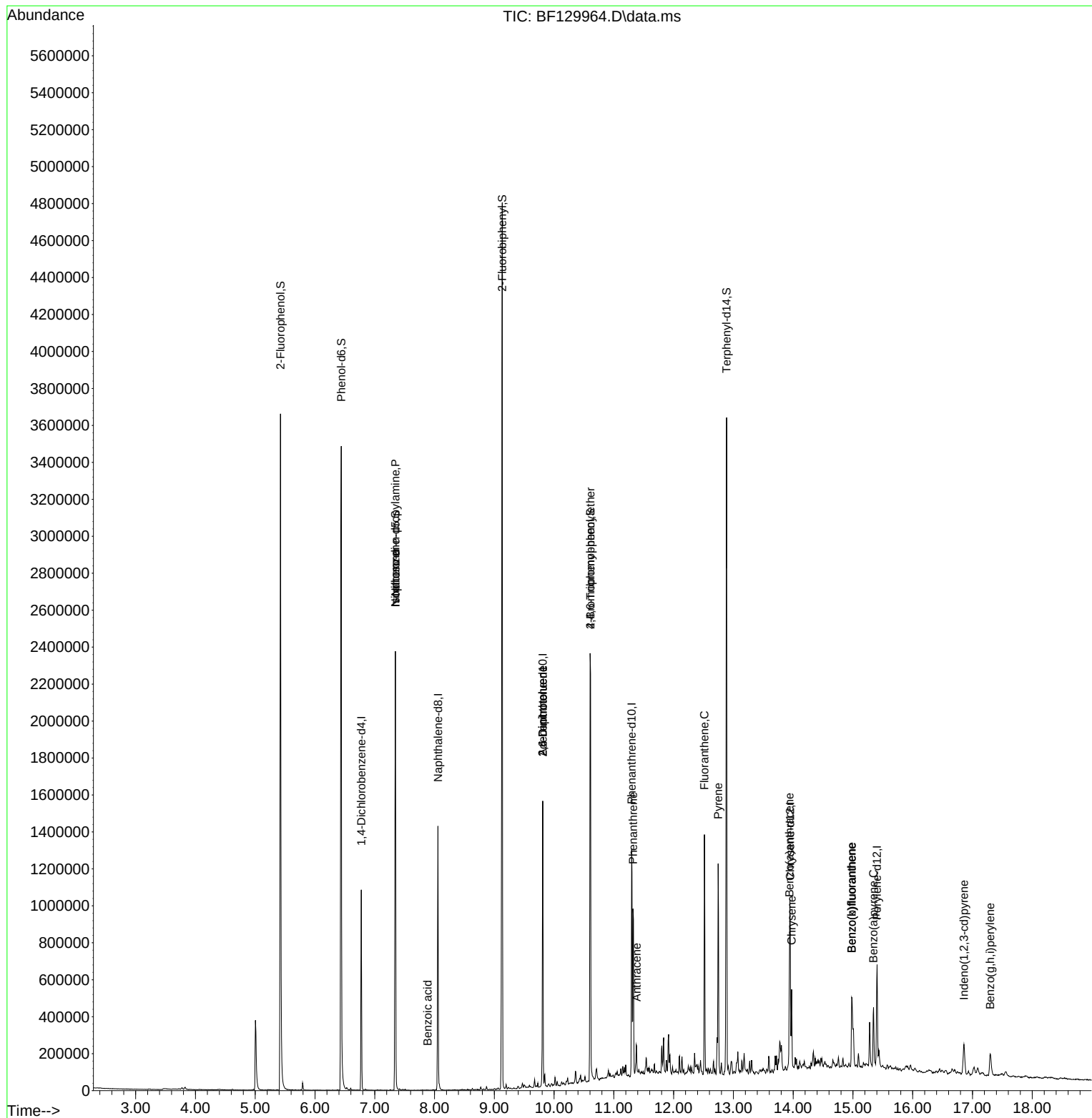
| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| -----                         |        |      |          |           |        |          |
| Internal Standards            |        |      |          |           |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.775  | 152  | 147111   | 20.000    | ng     | 0.00     |
| 21) Naphthalene-d8            | 8.057  | 136  | 580473   | 20.000    | ng     | 0.00     |
| 39) Acenaphthene-d10          | 9.810  | 164  | 294074   | 20.000    | ng     | 0.00     |
| 64) Phenanthrene-d10          | 11.298 | 188  | 443234   | 20.000    | ng     | 0.00     |
| 76) Chrysene-d12              | 13.951 | 240  | 241487   | 20.000    | ng     | 0.00     |
| 86) Perylene-d12              | 15.403 | 264  | 244104   | 20.000    | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |           |        |          |
| 5) 2-Fluorophenol             | 5.422  | 112  | 942541   | 106.081   | ng     | 0.01     |
| 7) Phenol-d6                  | 6.439  | 99   | 1196552  | 107.539   | ng     | 0.00     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 786285   | 72.512    | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.610 | 330  | 274617   | 93.044    | ng     | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.133  | 172  | 1417339  | 73.201    | ng     | 0.00     |
| 79) Terphenyl-d14             | 12.886 | 244  | 1088651  | 75.012    | ng     | 0.00     |
| Target Compounds              |        |      |          |           |        |          |
|                               |        |      |          |           | Qvalue |          |
| 9) Benzaldehyde               | 6.386  | 77   | 244      | Below Cal | #      | 41       |
| 19) n-Nitroso-di-n-propyla... | 7.345  | 70   | 106318   | 15.117    | ng     | # 80     |
| 25) Isophorone                | 7.345  | 82   | 786278   | 42.130    | ng     | # 65     |
| 32) Benzoic acid              | 7.886  | 122  | 60       | 2.171     | ng     | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.810  | 165  | 39105    | 8.551     | ng     | # 23     |
| 57) 2,4-Dinitrotoluene        | 9.810  | 165  | 39105    | 6.587     | ng     | # 18     |
| 67) 4-Bromophenyl-phenylether | 10.610 | 248  | 17874    | 3.443     | ng     | # 1      |
| 71) Phenanthrene              | 11.321 | 178  | 331963   | 13.410    | ng     | 99       |
| 72) Anthracene                | 11.380 | 178  | 63263    | 2.570     | ng     | 98       |
| 75) Fluoranthene              | 12.515 | 202  | 455221   | 17.971    | ng     | 98       |
| 77) Benzidine                 | 12.886 | 184  | 16642    | Below Cal | #      | 90       |
| 78) Pyrene                    | 12.745 | 202  | 427691   | 20.381    | ng     | 99       |
| 81) Benzo(a)anthracene        | 13.939 | 228  | 168771   | 10.160    | ng     | 98       |
| 83) Chrysene                  | 13.974 | 228  | 153065   | 9.843     | ng     | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.856 | 276  | 104039   | 6.208     | ng     | 94       |
| 88) Benzo(b)fluoranthene      | 14.980 | 252  | 275662   | 16.492    | ng     | 99       |
| 89) Benzo(k)fluoranthene      | 14.980 | 252  | 275662   | 17.197    | ng     | 98       |
| 90) Benzo(a)pyrene            | 15.345 | 252  | 157347   | 11.954    | ng     | 99       |
| 92) Benzo(g,h,i)perylene      | 17.297 | 276  | 96277    | 6.979     | ng     | 99       |
| -----                         |        |      |          |           |        |          |

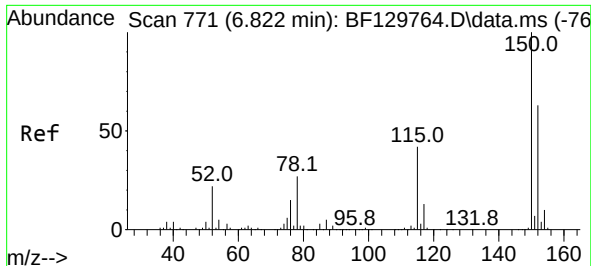
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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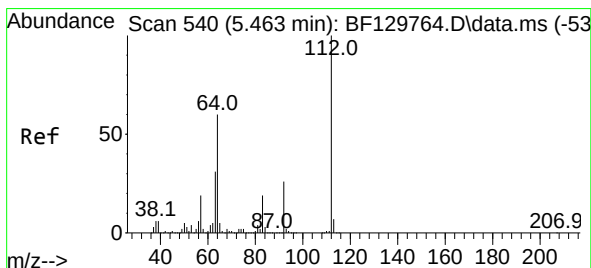
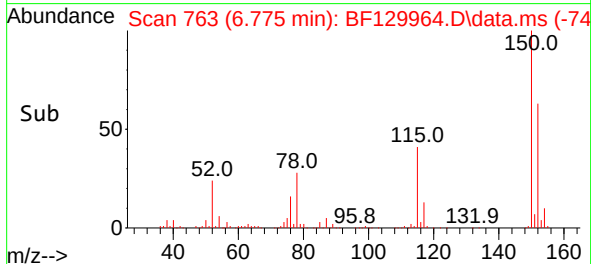
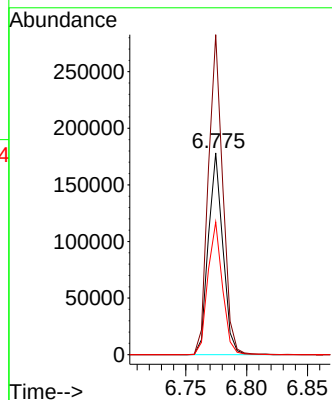
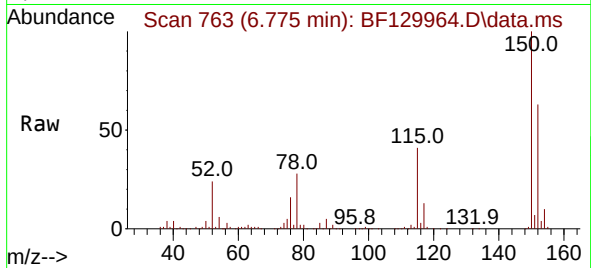




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.775 min Scan# 70  
Delta R.T. -0.000 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

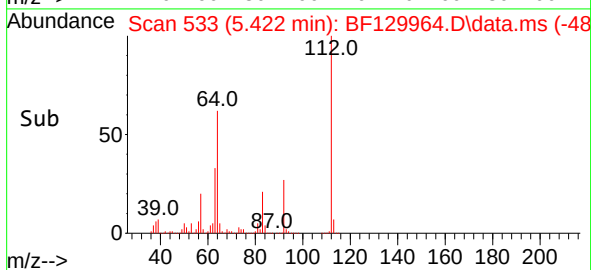
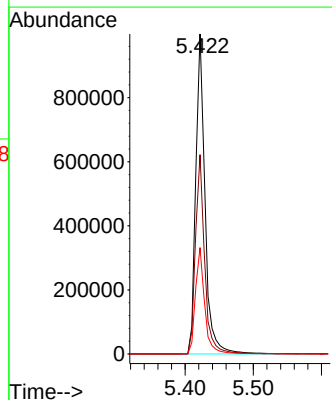
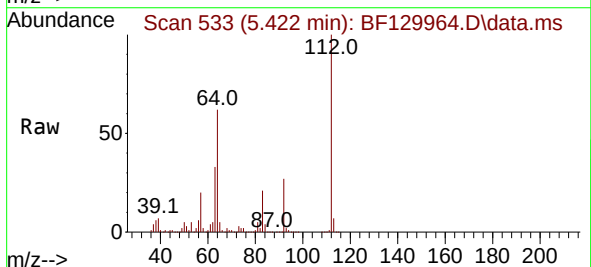
Instrument :  
BNA\_F  
ClientSampleId :  
XRDS-RECYCLED-SAND-SP-A-COMP

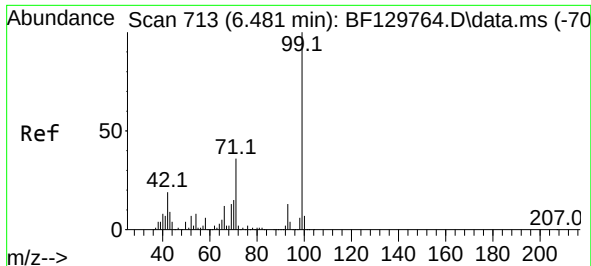
Tgt Ion:152 Resp: 147111  
Ion Ratio Lower Upper  
152 100  
150 158.5 126.9 190.3  
115 65.7 53.4 80.0



#5  
2-Fluorophenol  
Concen: 106.081 ng  
RT: 5.422 min Scan# 533  
Delta R.T. 0.012 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:112 Resp: 942541  
Ion Ratio Lower Upper  
112 100  
64 62.3 47.6 71.4  
63 33.3 24.6 37.0

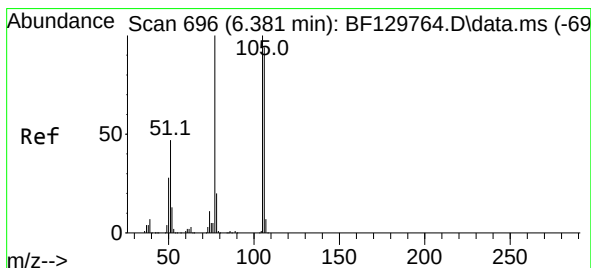
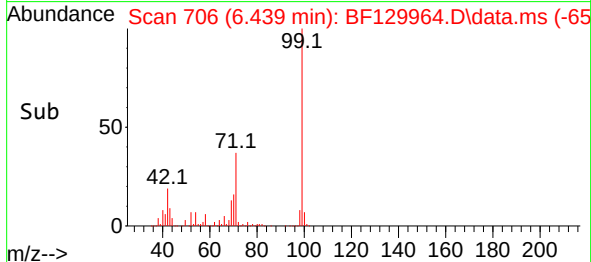
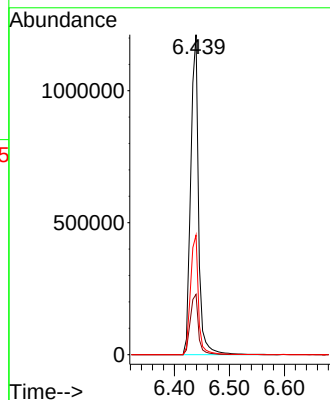
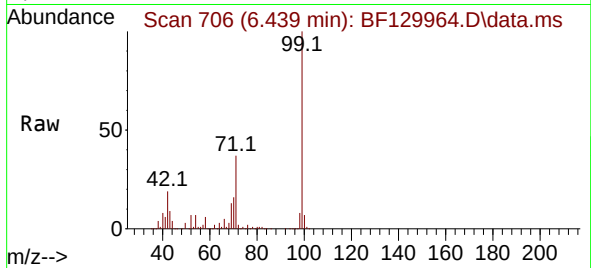




#7  
Phenol-d6  
Concen: 107.539 ng  
RT: 6.439 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

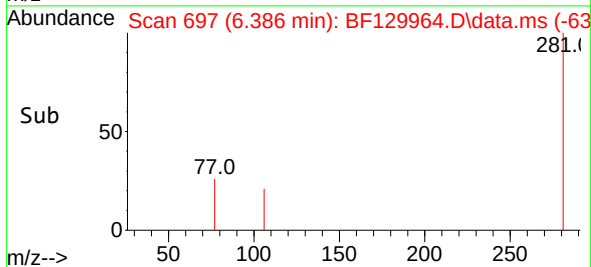
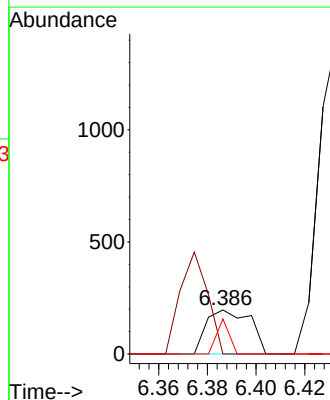
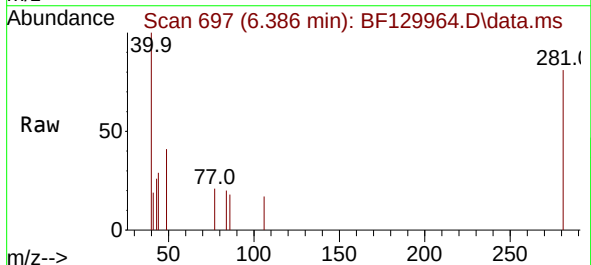
Instrument :  
BNA\_F  
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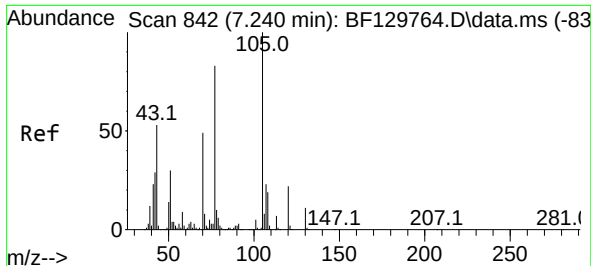
Tgt Ion: 99 Resp: 1196552  
Ion Ratio Lower Upper  
99 100  
42 18.8 15.0 22.4  
71 37.4 28.8 43.2



#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.386 min Scan# 697  
Delta R.T. 0.053 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion: 77 Resp: 244  
Ion Ratio Lower Upper  
77 100  
105 0.0 80.3 120.3#  
106 79.6 74.3 114.3

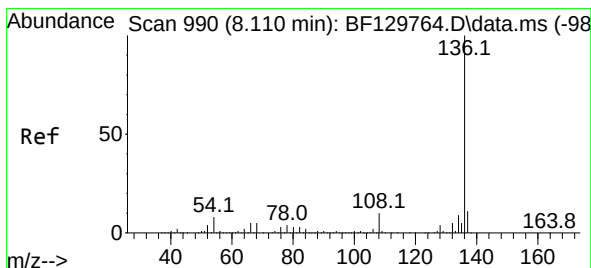
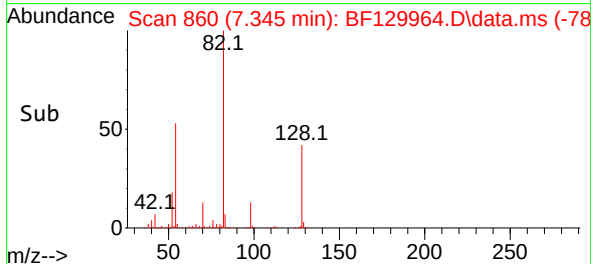
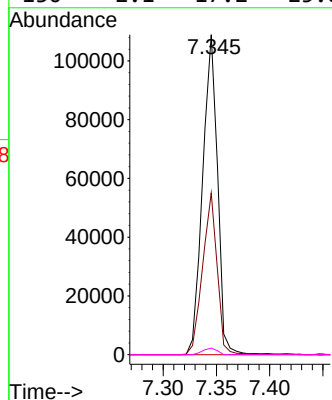
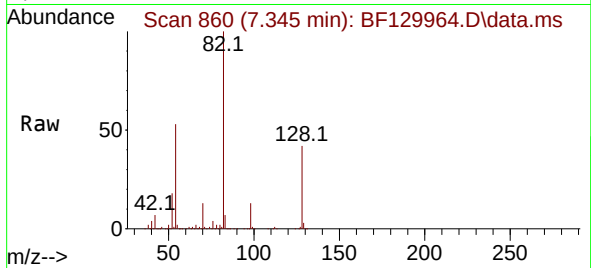




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.117 ng  
RT: 7.345 min Scan# 80  
Delta R.T. 0.147 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

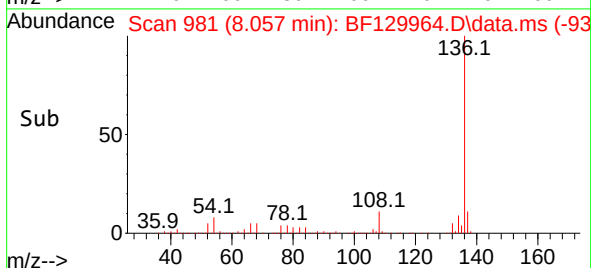
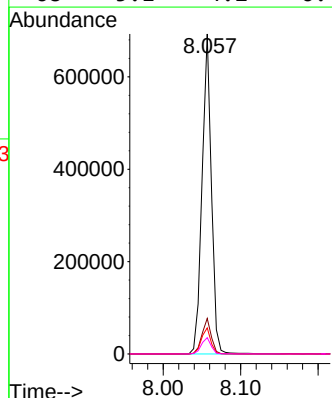
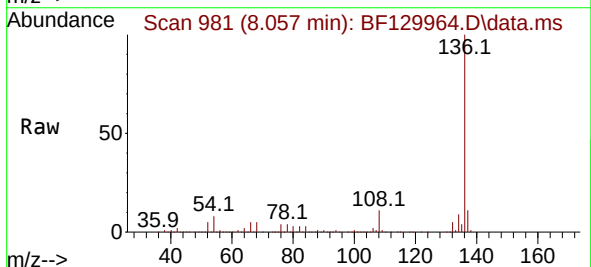
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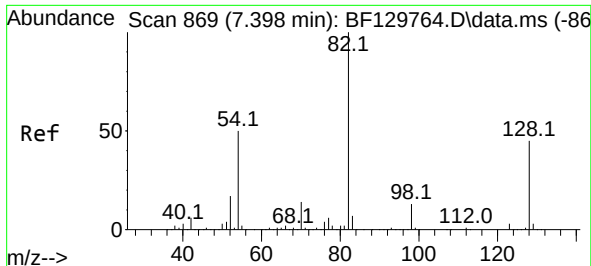
Tgt Ion: 70 Resp: 106318  
Ion Ratio Lower Upper  
70 100  
42 50.5 47.6 71.4  
101 0.0 8.1 12.1#  
130 2.1 17.2 25.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.057 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion: 136 Resp: 580473  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.4 12.6  
54 8.2 6.2 9.2  
68 5.1 4.2 6.4

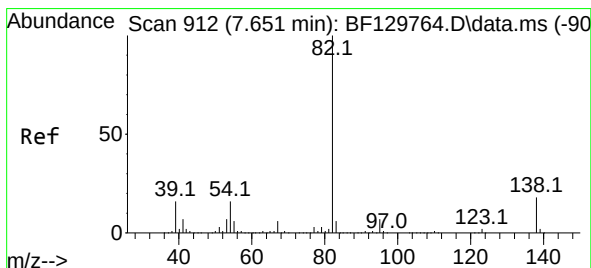
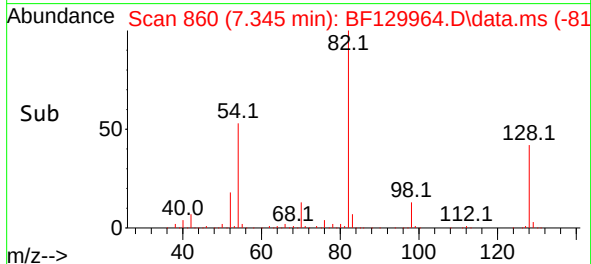
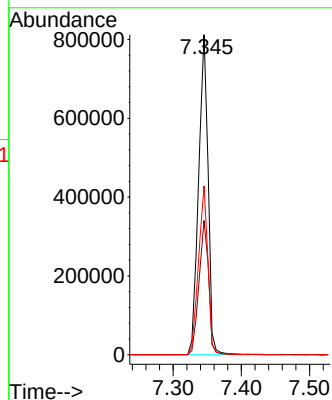
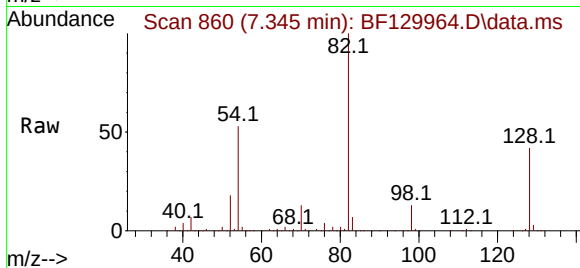




#23  
Nitrobenzene-d5  
Concen: 72.512 ng  
RT: 7.345 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

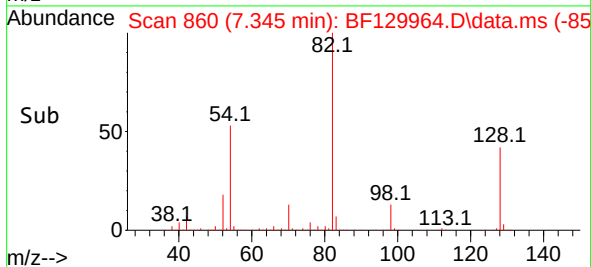
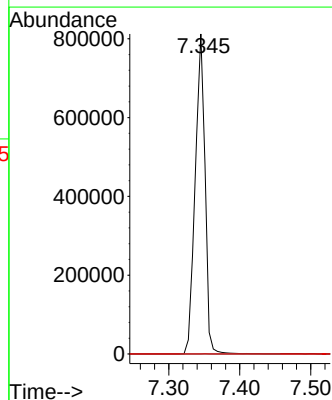
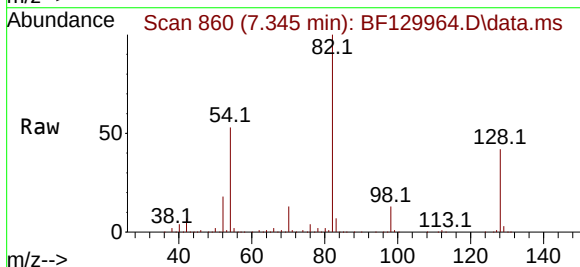
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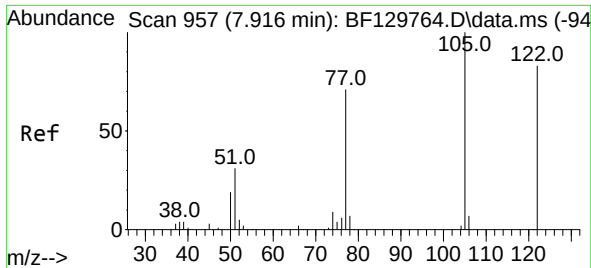
Tgt Ion: 82 Resp: 786285  
Ion Ratio Lower Upper  
82 100  
128 42.0 36.1 54.1  
54 52.8 40.0 60.0



#25  
Isophorone  
Concen: 42.130 ng  
RT: 7.345 min Scan# 860  
Delta R.T. -0.259 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion: 82 Resp: 786278  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.9 8.9#  
138 0.0 14.6 21.8#

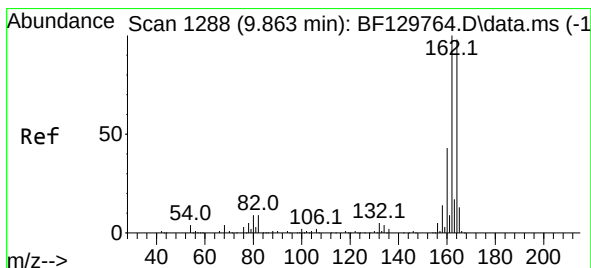
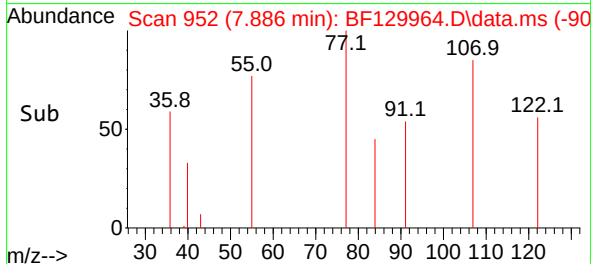
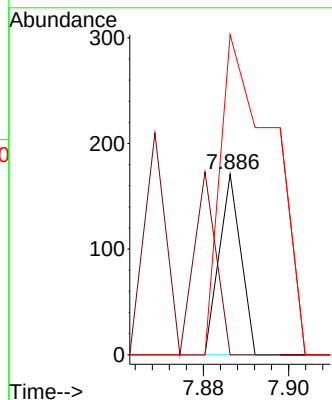
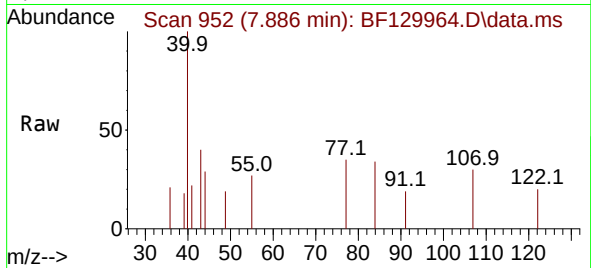




#32  
Benzoic acid  
Concen: 2.171 ng  
RT: 7.886 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

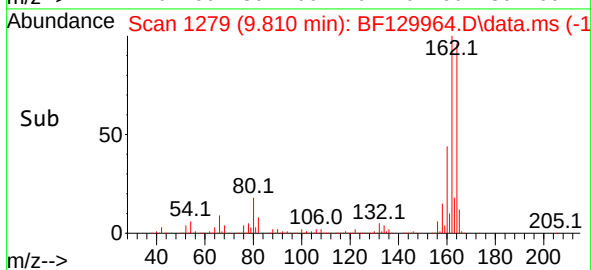
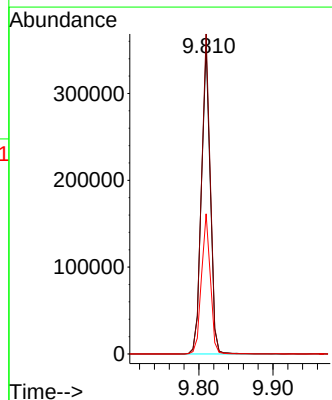
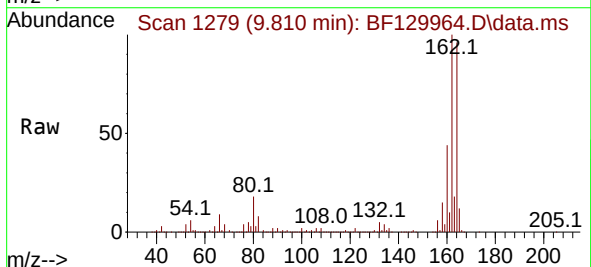
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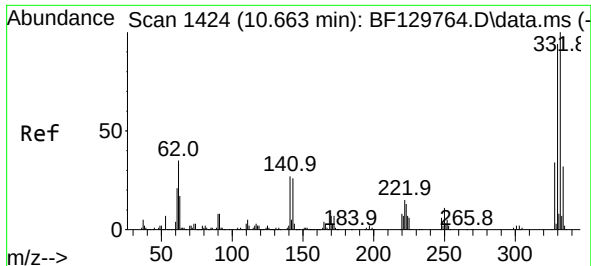
Tgt Ion:122 Resp: 60  
Ion Ratio Lower Upper  
122 100  
105 0.0 99.9 139.9#  
77 177.2 65.9 105.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.810 min Scan# 1279  
Delta R.T. -0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:164 Resp: 294074  
Ion Ratio Lower Upper  
164 100  
162 104.1 82.0 123.0  
160 45.6 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 93.044 ng

RT: 10.610 min Scan# 1415

Delta R.T. -0.000 min

Lab File: BF129964.D

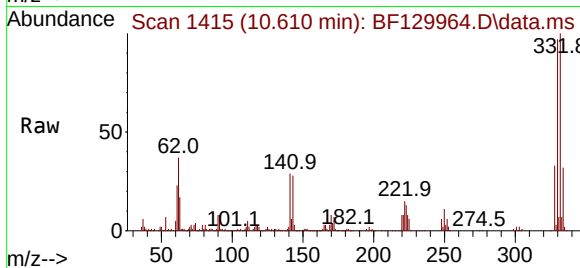
Acq: 23 Aug 2022 21:28

Instrument :

BNA\_F

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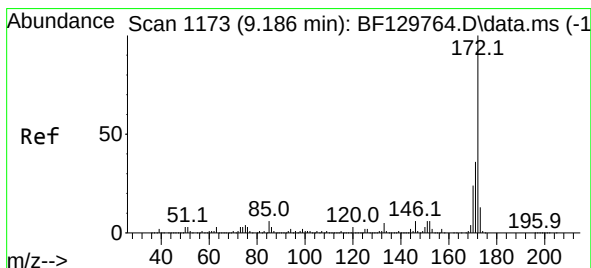
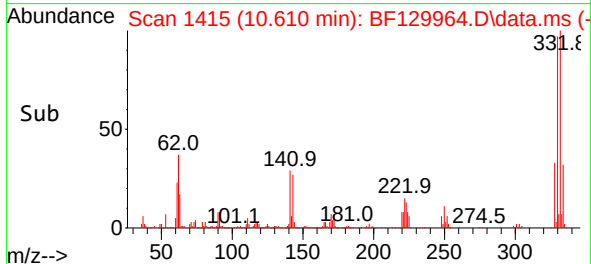
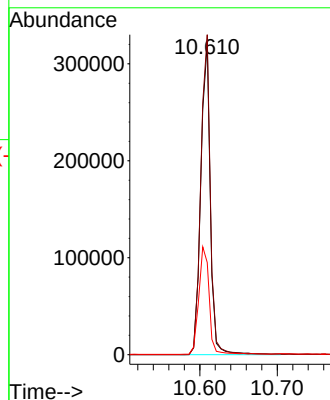
Tgt Ion:330 Resp: 274617

Ion Ratio Lower Upper

330 100

332 103.5 82.6 124.0

141 37.6 27.6 41.4



#45

2-Fluorobiphenyl

Concen: 73.201 ng

RT: 9.133 min Scan# 1164

Delta R.T. -0.000 min

Lab File: BF129964.D

Acq: 23 Aug 2022 21:28

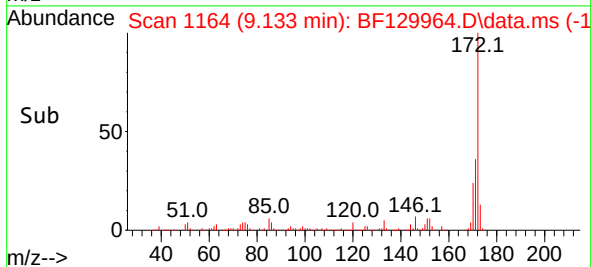
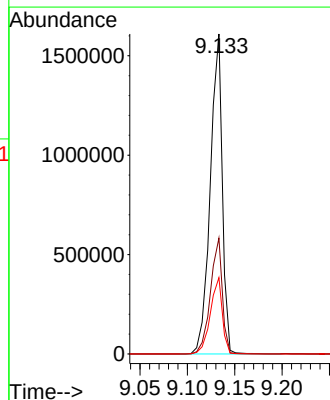
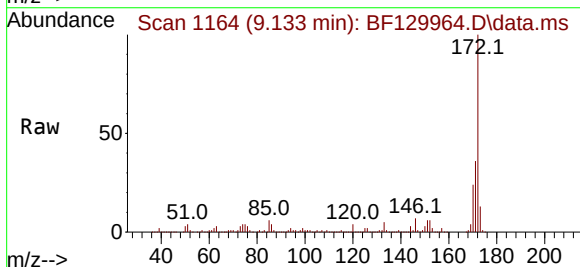
Tgt Ion:172 Resp: 1417339

Ion Ratio Lower Upper

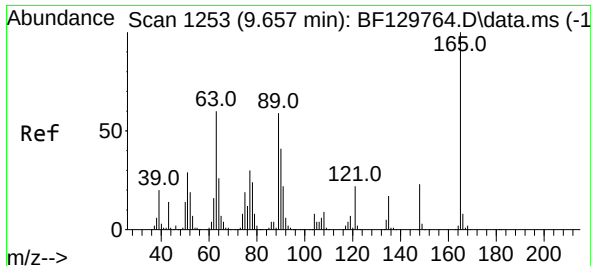
172 100

171 36.2 28.4 42.6

170 23.8 19.1 28.7



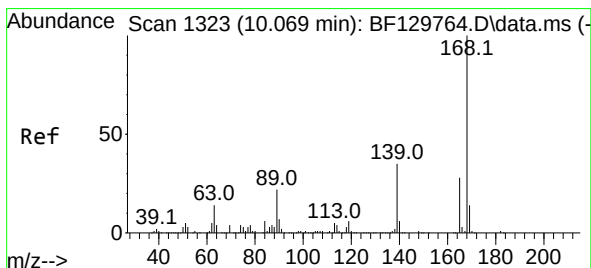
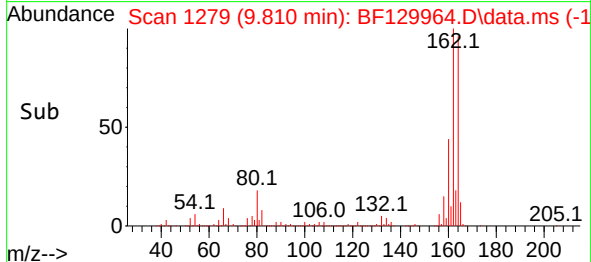
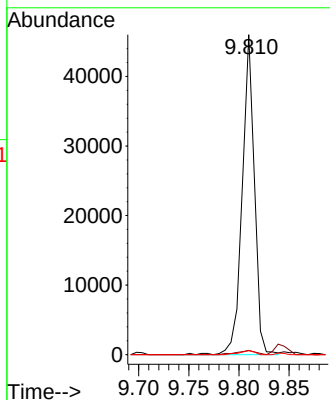
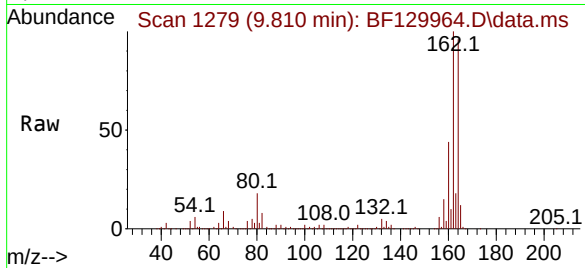




#51  
2,6-Dinitrotoluene  
Concen: 8.551 ng  
RT: 9.810 min Scan# 1279  
Delta R.T. 0.194 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

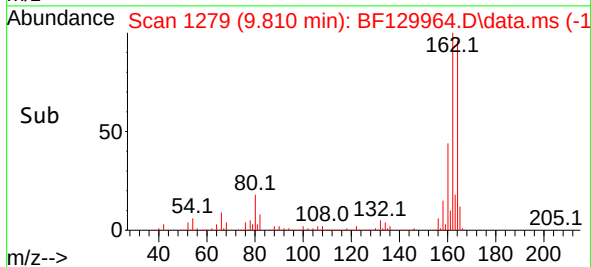
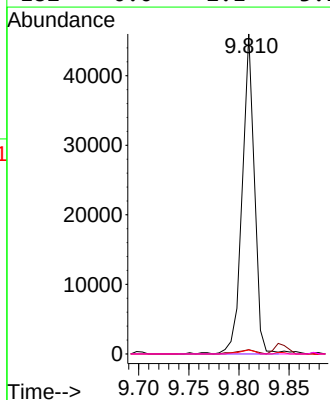
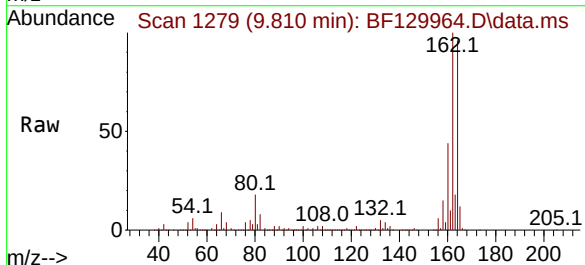
Instrument :  
BNA\_F  
ClientSampleId :  
XRDS-RECYCLED-SAND-SP-A-COMP

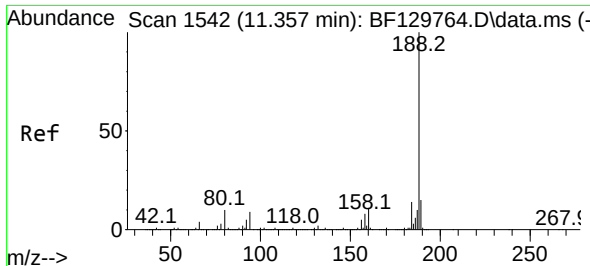
Tgt Ion:165 Resp: 39105  
Ion Ratio Lower Upper  
165 100  
63 1.4 47.8 71.8#  
89 1.2 47.2 70.8#



#57  
2,4-Dinitrotoluene  
Concen: 6.587 ng  
RT: 9.810 min Scan# 1279  
Delta R.T. -0.212 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:165 Resp: 39105  
Ion Ratio Lower Upper  
165 100  
63 1.4 48.4 72.6#  
89 1.2 62.3 93.5#  
182 0.0 2.1 3.1#

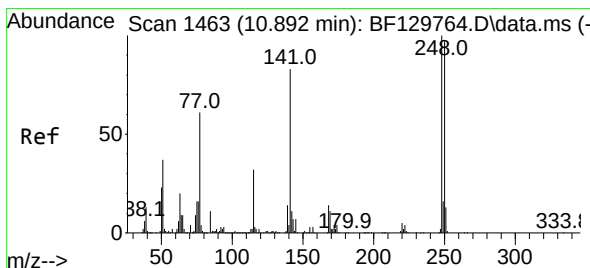
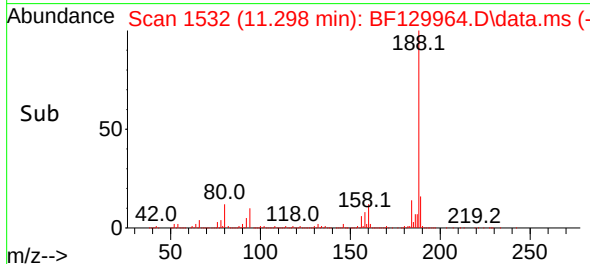
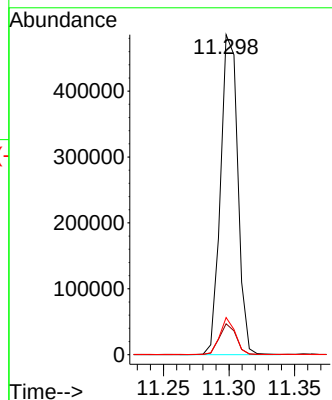
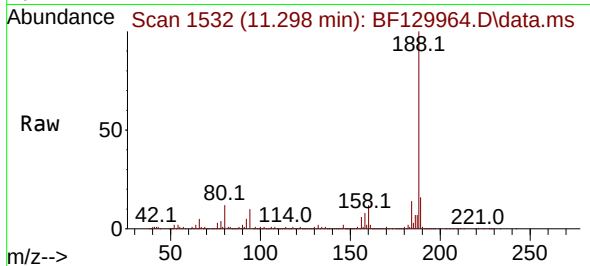




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.298 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

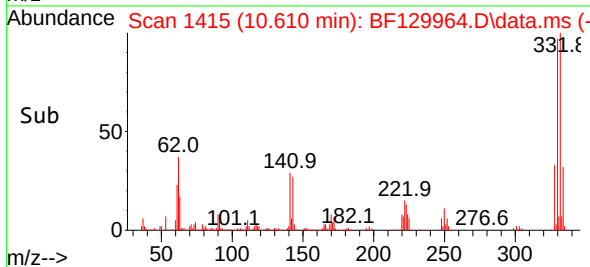
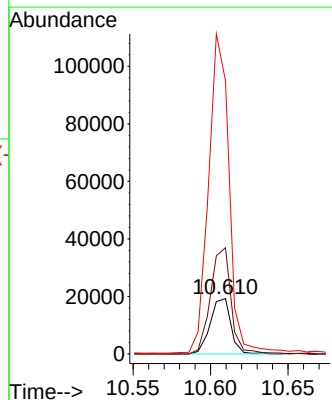
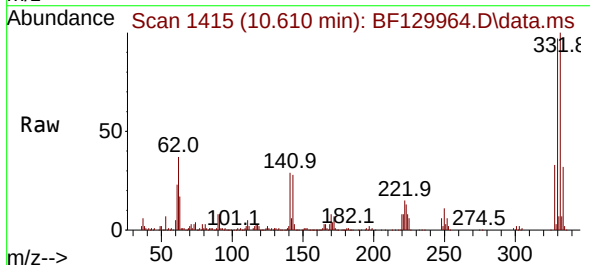
Instrument :  
BNA\_F  
ClientSampleId :  
XRDS-RECYCLED-SAND-SP-A-COMP

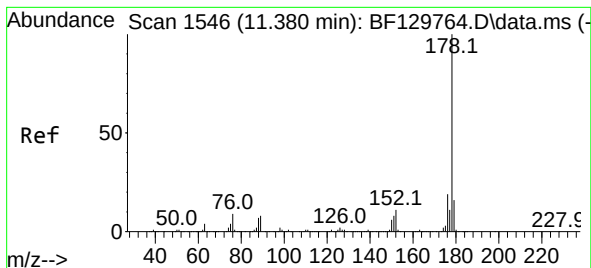
Tgt Ion:188 Resp: 443234  
Ion Ratio Lower Upper  
188 100  
94 9.7 7.4 11.2  
80 11.6 7.9 11.9



#67  
4-Bromophenyl-phenylether  
Concen: 3.443 ng  
RT: 10.610 min Scan# 1415  
Delta R.T. -0.235 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:248 Resp: 17874  
Ion Ratio Lower Upper  
248 100  
250 191.7 77.8 116.6#  
141 492.9 66.2 99.2#





#71

Phenanthrene

Concen: 13.410 ng

RT: 11.321 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF129964.D

Acq: 23 Aug 2022 21:28

Instrument :

BNA\_F

ClientSampleId :

XRDS-RECYCLED-SAND-SP-A-COMP

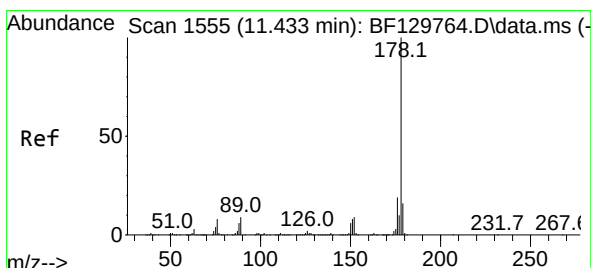
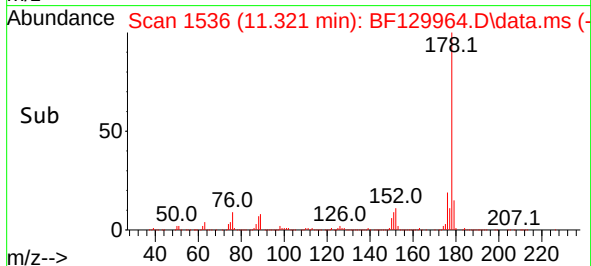
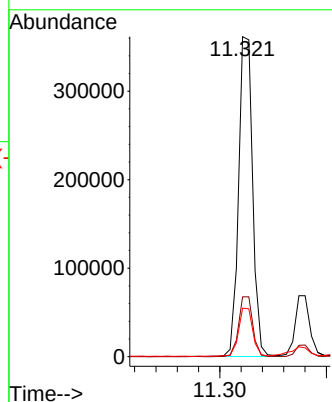
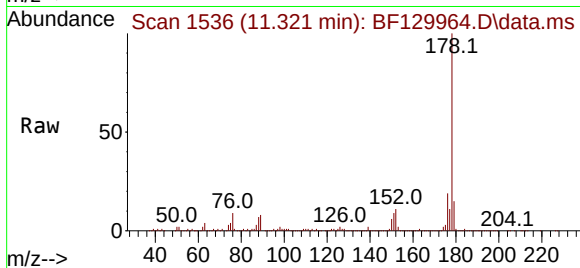
Tgt Ion:178 Resp: 331963

Ion Ratio Lower Upper

178 100

176 18.7 15.5 23.3

179 15.2 12.5 18.7



#72

Anthracene

Concen: 2.570 ng

RT: 11.380 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BF129964.D

Acq: 23 Aug 2022 21:28

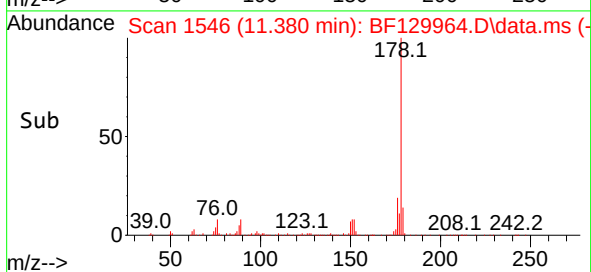
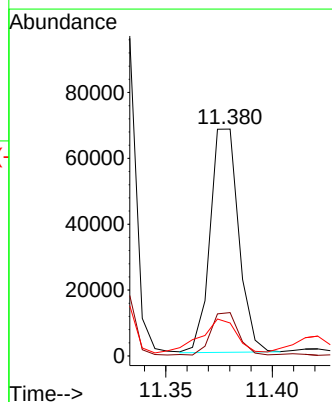
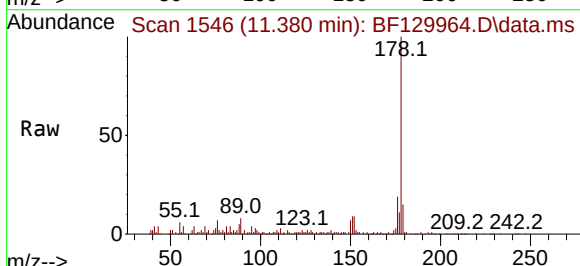
Tgt Ion:178 Resp: 63263

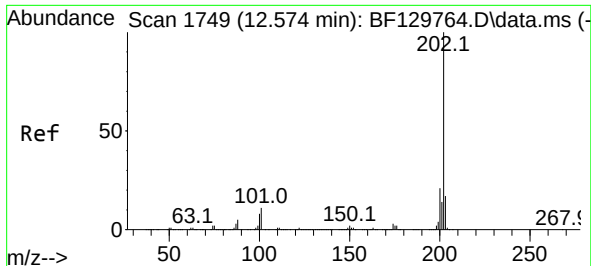
Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

179 14.5 12.6 18.8

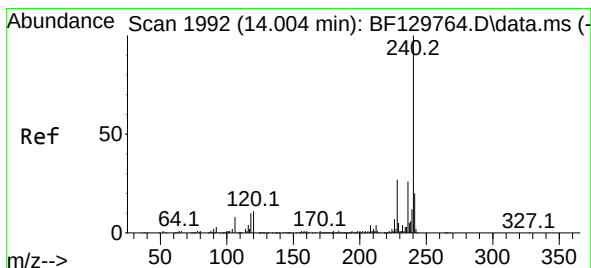
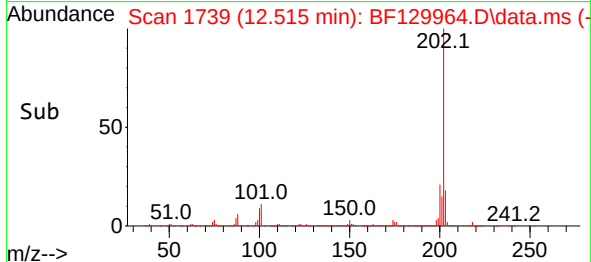
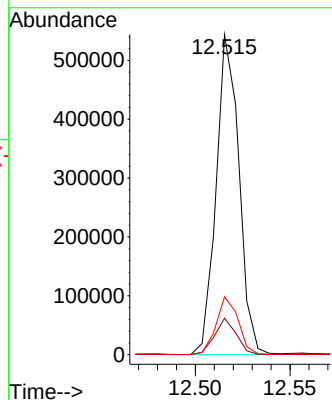
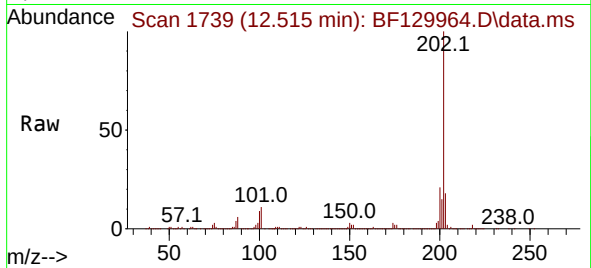




#75  
Fluoranthene  
Concen: 17.971 ng  
RT: 12.515 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

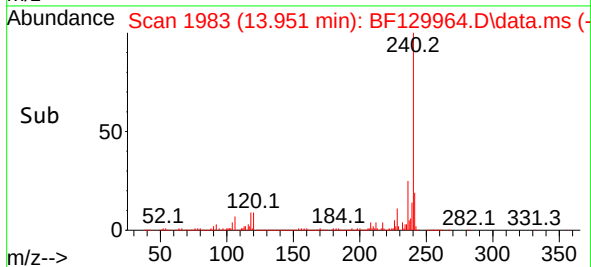
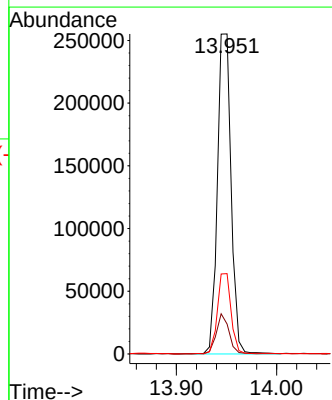
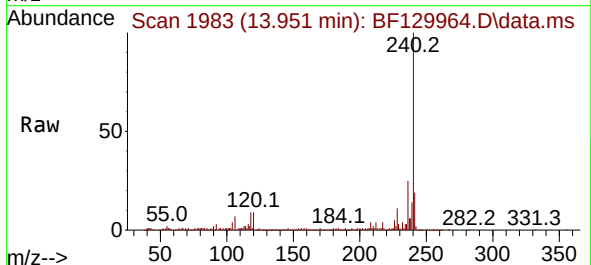
Instrument :  
BNA\_F  
ClientSampleId :  
XRDS-RECYCLED-SAND-SP-A-COMP

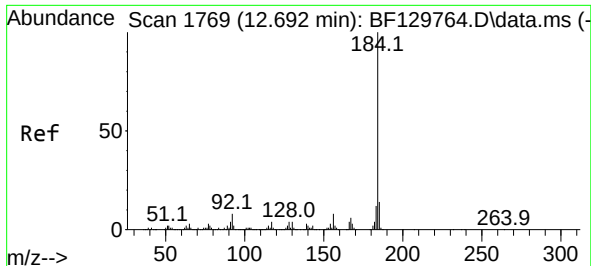
Tgt Ion:202 Resp: 455221  
Ion Ratio Lower Upper  
202 100  
101 11.4 0.0 30.7  
203 18.1 0.0 37.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.951 min Scan# 1983  
Delta R.T. -0.000 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:240 Resp: 241487  
Ion Ratio Lower Upper  
240 100  
120 9.4 9.2 13.8  
236 25.1 20.7 31.1

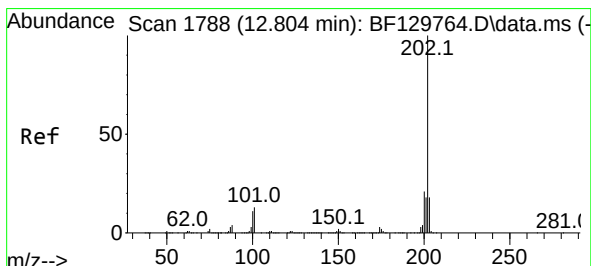
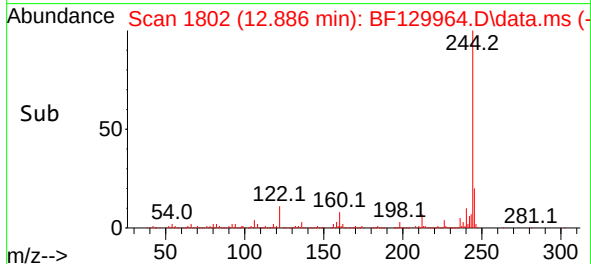
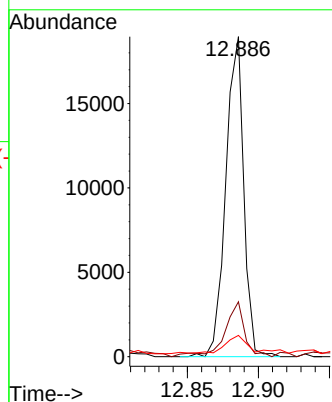
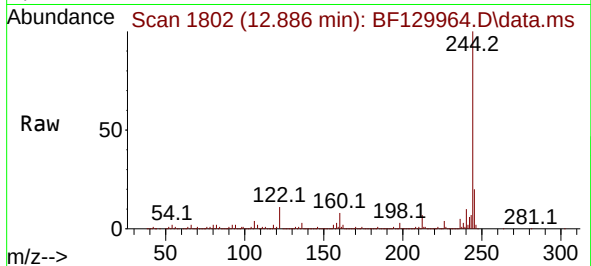




#77  
Benzidine  
Concen: Below Cal  
RT: 12.886 min Scan# 1780  
Delta R.T. 0.241 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

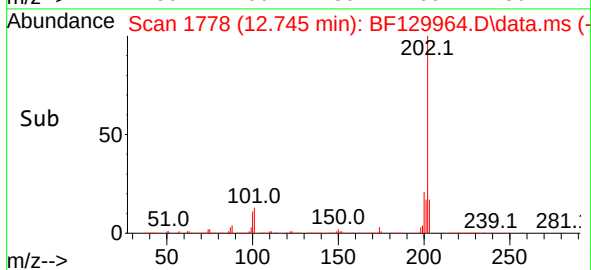
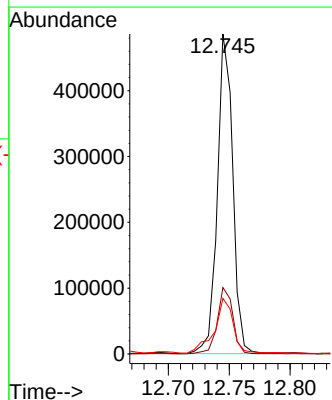
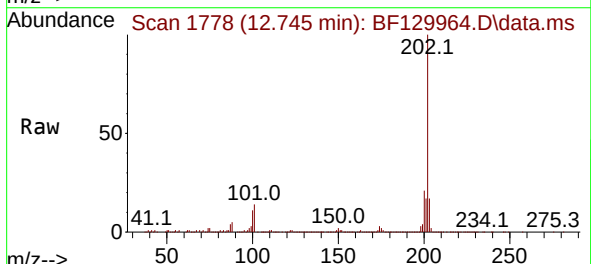
Instrument :  
BNA\_F  
ClientSampleId :  
XRDS-RECYCLED-SAND-SP-A-COMP

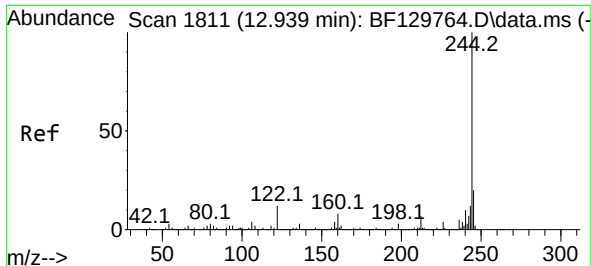
Tgt Ion:184 Resp: 16642  
Ion Ratio Lower Upper  
184 100  
185 17.2 11.4 17.2#  
183 6.6 9.4 14.2#



#78  
Pyrene  
Concen: 20.381 ng  
RT: 12.745 min Scan# 1778  
Delta R.T. -0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:202 Resp: 427691  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.0 25.6  
203 17.3 14.1 21.1

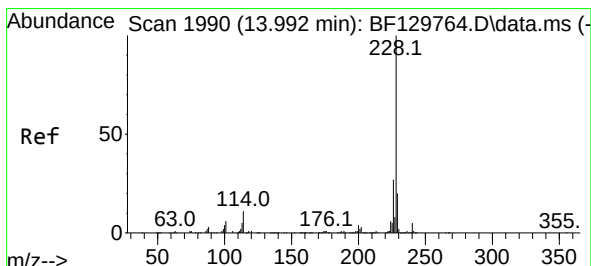
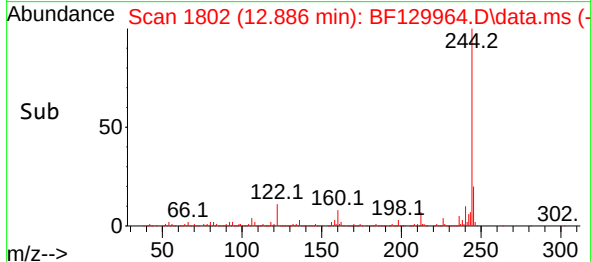
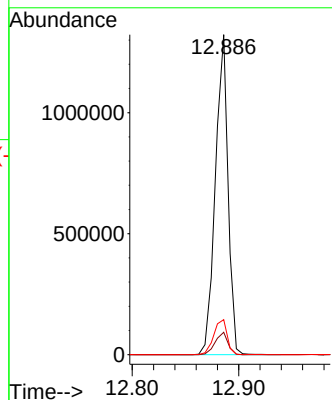
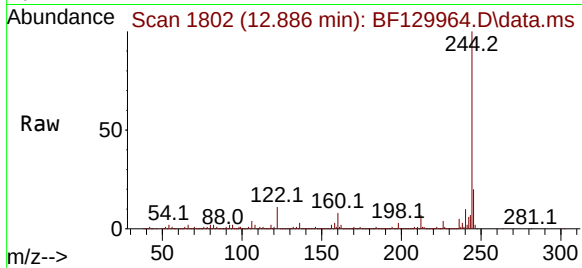




#79  
 Terphenyl-d14  
 Concen: 75.012 ng  
 RT: 12.886 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: BF129964.D  
 Acq: 23 Aug 2022 21:28

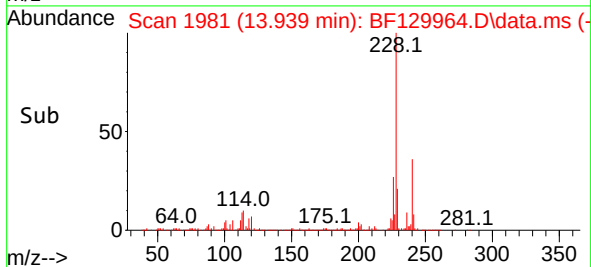
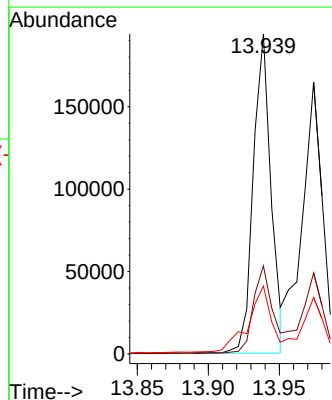
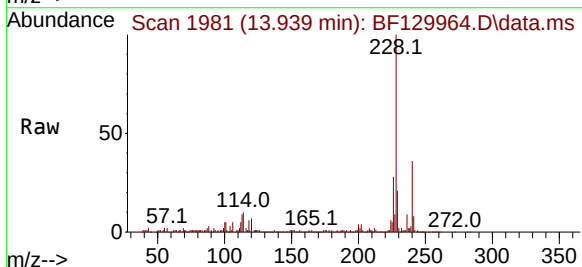
Instrument :  
 BNA\_F  
 ClientSampleId :  
 XRDS-RECYCLED-SAND-SP-A-COMP

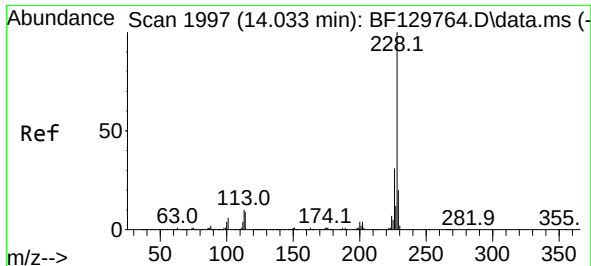
Tgt Ion:244 Resp: 1088651  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.9 8.9  
 122 10.9 9.9 14.9



#81  
 Benzo(a)anthracene  
 Concen: 10.160 ng  
 RT: 13.939 min Scan# 1981  
 Delta R.T. -0.000 min  
 Lab File: BF129964.D  
 Acq: 23 Aug 2022 21:28

Tgt Ion:228 Resp: 168771  
 Ion Ratio Lower Upper  
 228 100  
 226 27.5 21.4 32.0  
 229 21.2 16.1 24.1

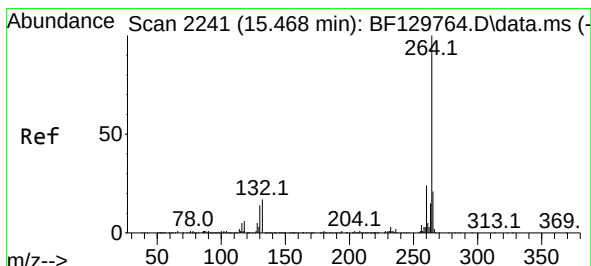
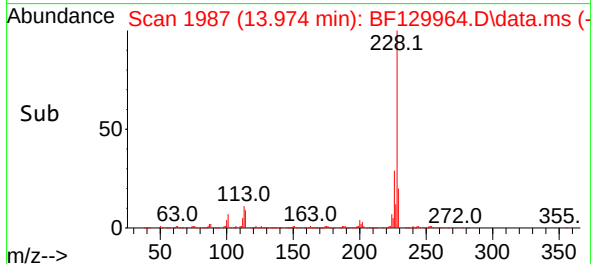
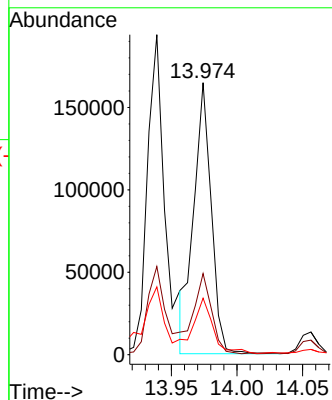
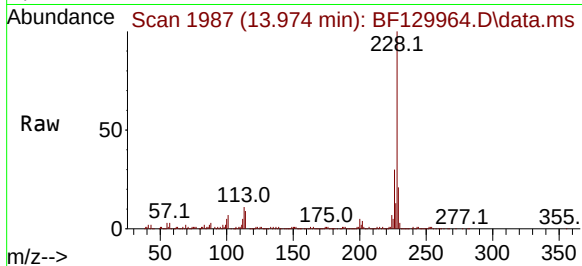




#83  
Chrysene  
Concen: 9.843 ng  
RT: 13.974 min Scan# 1997  
Delta R.T. -0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

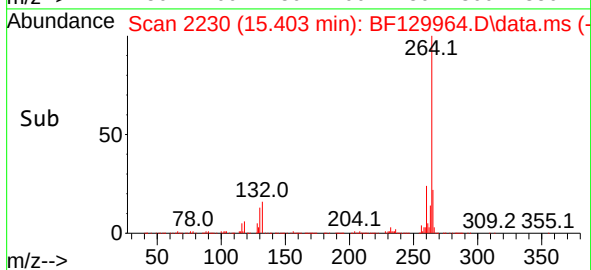
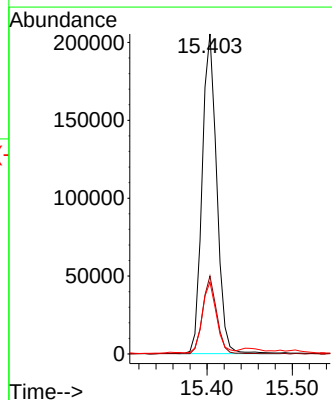
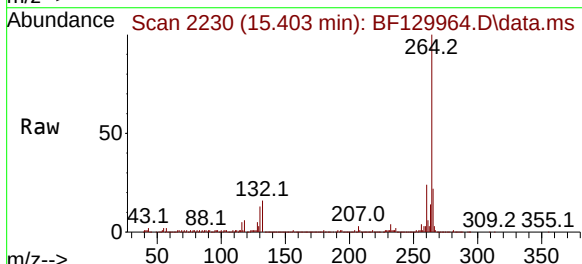
Instrument :  
BNA\_F  
ClientSampleId :  
XRDS-RECYCLED-SAND-SP-A-COMP

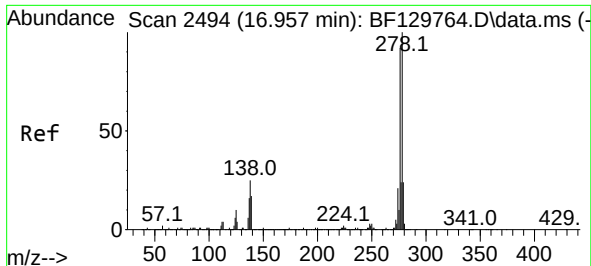
Tgt Ion:228 Resp: 153065  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.4 36.6  
229 20.8 15.9 23.9



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.403 min Scan# 2230  
Delta R.T. 0.006 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:264 Resp: 244104  
Ion Ratio Lower Upper  
264 100  
260 24.4 19.1 28.7  
265 22.5 16.7 25.1

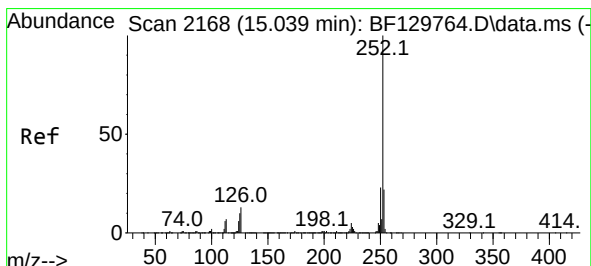
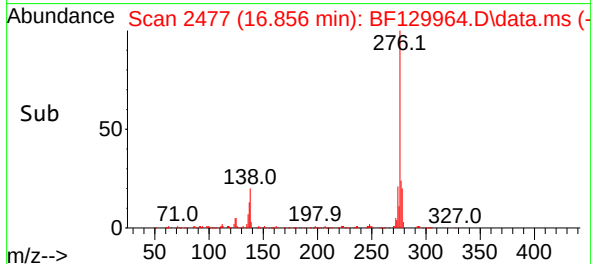
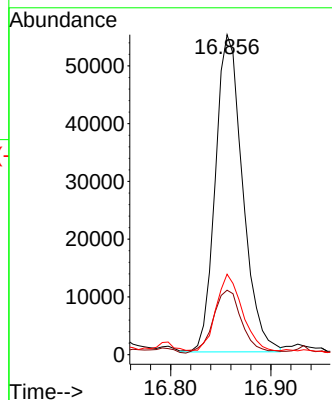
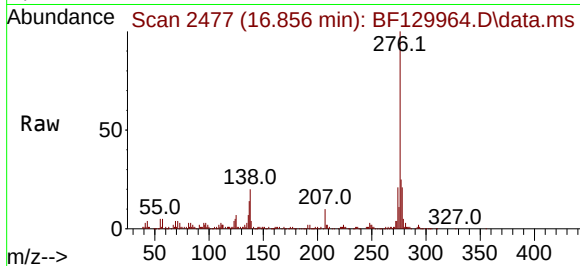




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 6.208 ng  
RT: 16.856 min Scan# 2494  
Delta R.T. -0.000 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

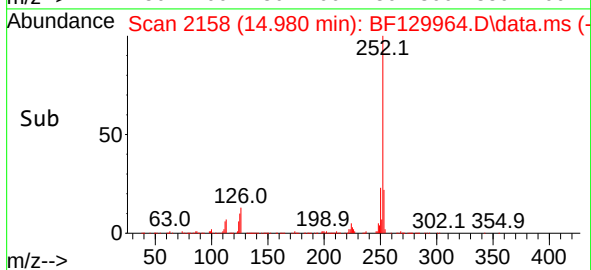
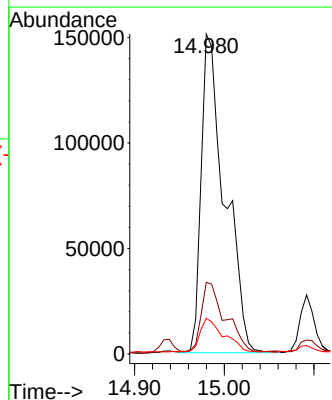
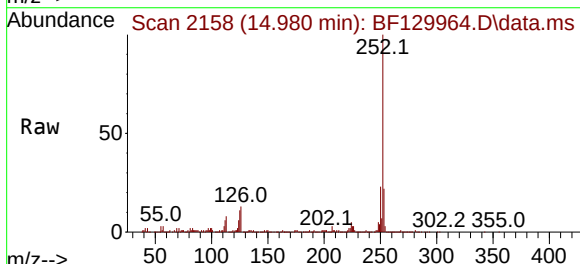
Instrument :  
BNA\_F  
ClientSampleId :  
XRDS-RECYCLED-SAND-SP-A-COMP

Tgt Ion:276 Resp: 104039  
Ion Ratio Lower Upper  
276 100  
138 20.9 19.8 29.8  
277 23.1 20.4 30.6

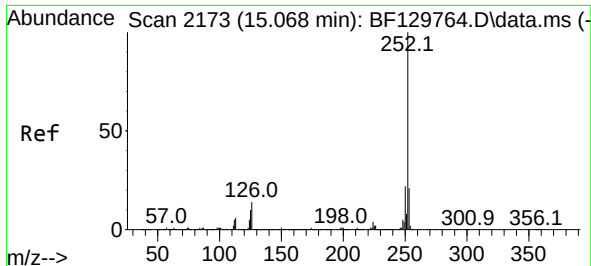


#88  
Benzo(b)fluoranthene  
Concen: 16.492 ng  
RT: 14.980 min Scan# 2158  
Delta R.T. -0.000 min  
Lab File: BF129964.D  
Acq: 23 Aug 2022 21:28

Tgt Ion:252 Resp: 275662  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.5 26.3  
125 11.1 8.3 12.5







#89

Benzo(k)fluoranthene

Concen: 17.197 ng

RT: 14.980 min Scan# 2173

Delta R.T. -0.030 min

Lab File: BF129964.D

Acq: 23 Aug 2022 21:28

Instrument :

BNA\_F

ClientSampleId :

XRDS-RECYCLED-SAND-SP-A-COMP

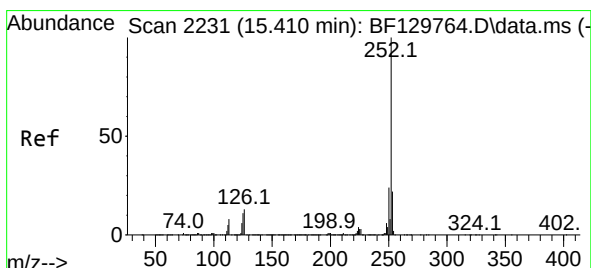
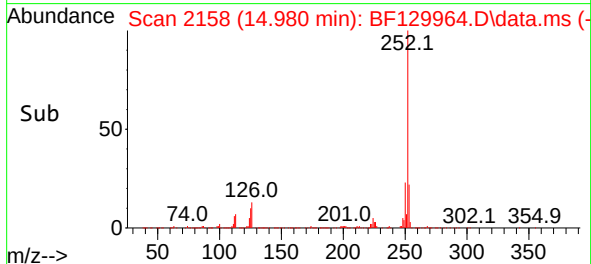
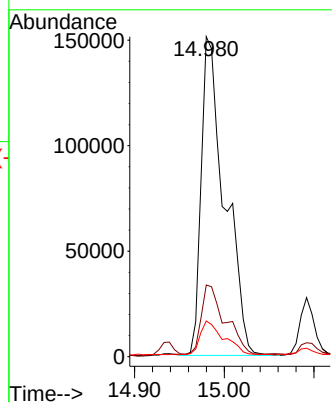
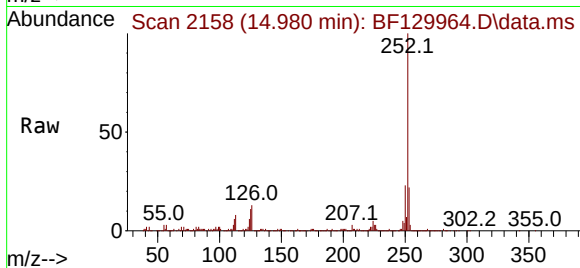
Tgt Ion:252 Resp: 275662

Ion Ratio Lower Upper

252 100

253 22.4 17.1 25.7

125 11.1 8.3 12.5



#90

Benzo(a)pyrene

Concen: 11.954 ng

RT: 15.345 min Scan# 2220

Delta R.T. 0.006 min

Lab File: BF129964.D

Acq: 23 Aug 2022 21:28

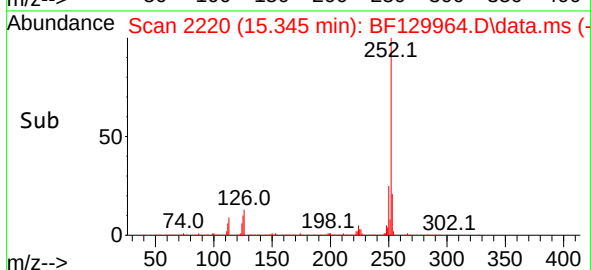
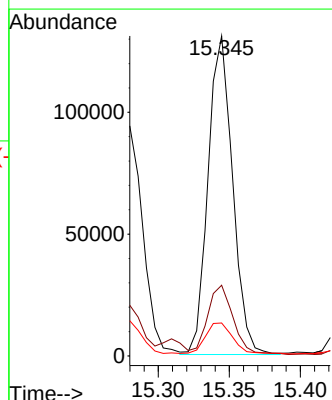
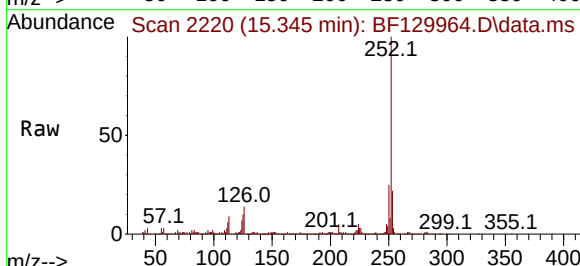
Tgt Ion:252 Resp: 157347

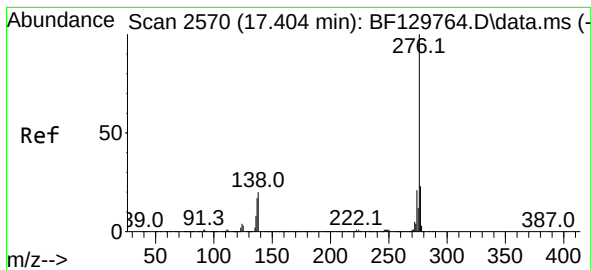
Ion Ratio Lower Upper

252 100

253 22.1 17.2 25.8

125 10.3 8.8 13.2





#92

Benzo(g,h,i)perylene

Concen: 6.979 ng

RT: 17.297 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF129964.D

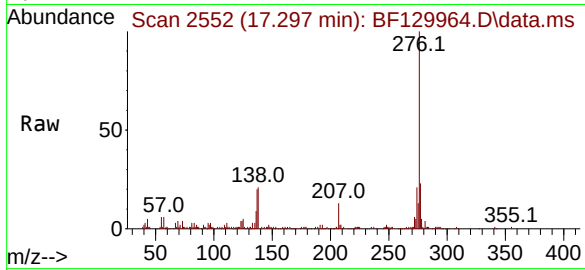
Acq: 23 Aug 2022 21:28

Instrument :

BNA\_F

ClientSampleId :

XRDS-RECYCLED-SAND-SP-A-COMP



Tgt Ion:276 Resp: 96277

Ion Ratio Lower Upper

276 100

277 22.8 18.2 27.4

138 20.7 15.8 23.8

