

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072922\  
 Data File : BF129447.D  
 Acq On : 29 Jul 2022 18:04  
 Operator : CG\JU  
 Sample : N3964-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HMGP-WATER-1

Quant Time: Jul 30 01:10:22 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 25 17:24:17 2022  
 Response via : Initial Calibration

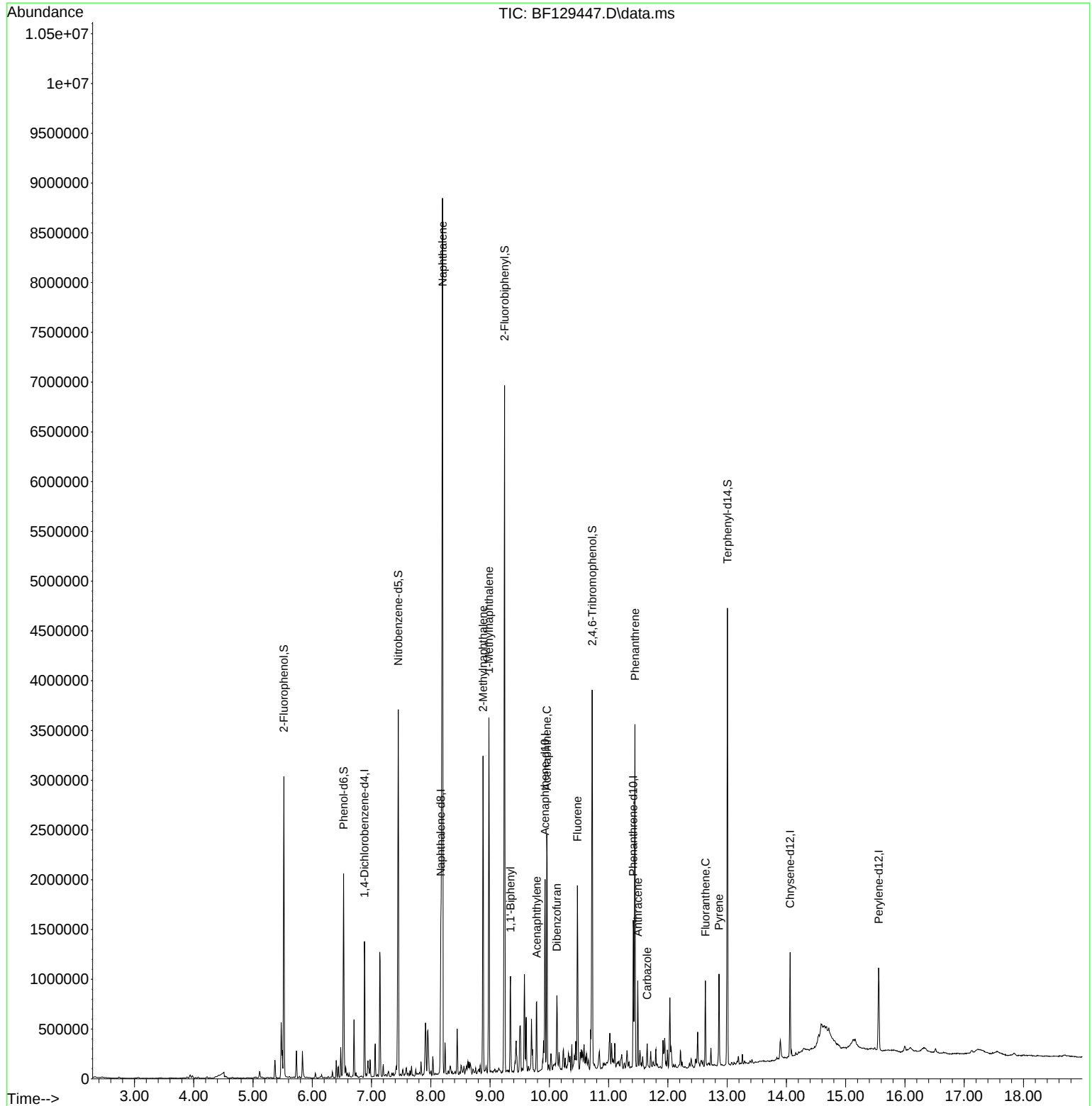
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.881  | 152  | 193201   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.169  | 136  | 754085   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.928  | 164  | 387847   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.416 | 188  | 575354   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12            | 14.063 | 240  | 313106   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.557 | 264  | 365440   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.522  | 112  | 770441   | 64.961  | ng    | 0.02     |
| 7) Phenol-d6                | 6.528  | 99   | 609896   | 40.912  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.451  | 82   | 1241251  | 89.855  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.722 | 330  | 443810   | 119.020 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.245  | 172  | 2063148  | 82.290  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.004 | 244  | 1508823  | 90.912  | ng    | 0.00     |
| Target Compounds            |        |      |          |         |       |          |
|                             |        |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 8.198  | 128  | 4627497  | 120.784 | ng    | 96       |
| 37) 2-Methylnaphthalene     | 8.881  | 142  | 829348   | 33.311  | ng    | 99       |
| 38) 1-Methylnaphthalene     | 8.981  | 142  | 891415   | 37.089  | ng    | 99       |
| 46) 1,1'-Biphenyl           | 9.345  | 154  | 285425   | 10.084  | ng    | 96       |
| 49) Acenaphthylene          | 9.786  | 152  | 145001   | 4.170   | ng    | # 94     |
| 52) Acenaphthene            | 9.957  | 154  | 489478   | 21.554  | ng    | 99       |
| 55) Dibenzofuran            | 10.128 | 168  | 161422   | 5.156   | ng    | 95       |
| 58) Fluorene                | 10.475 | 166  | 480540   | 19.185  | ng    | 99       |
| 71) Phenanthrene            | 11.445 | 178  | 1185053  | 37.732  | ng    | 99       |
| 72) Anthracene              | 11.492 | 178  | 290099   | 9.399   | ng    | 99       |
| 73) Carbazole               | 11.651 | 167  | 66899    | 2.303   | ng    | 97       |
| 75) Fluoranthene            | 12.633 | 202  | 300631   | 9.447   | ng    | 99       |
| 78) Pyrene                  | 12.863 | 202  | 348071   | 13.294  | ng    | 97       |
| -----                       |        |      |          |         |       |          |

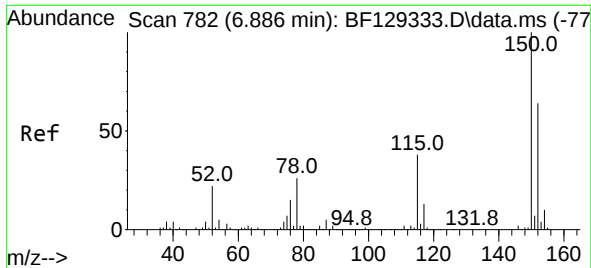
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072922\  
Data File : BF129447.D  
Acq On : 29 Jul 2022 18:04  
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Sample : N3964-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
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HMGP-WATER-1

Quant Time: Jul 30 01:10:22 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 25 17:24:17 2022  
Response via : Initial Calibration

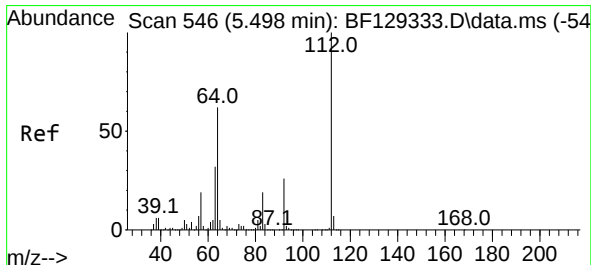
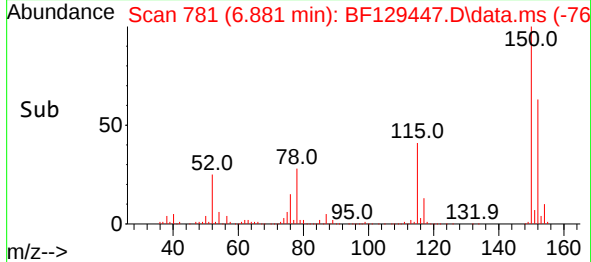
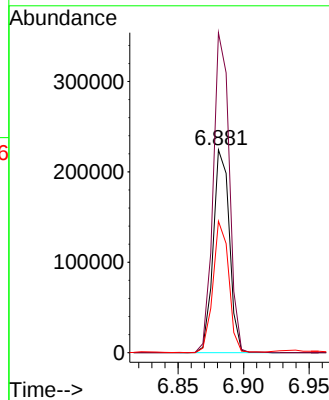
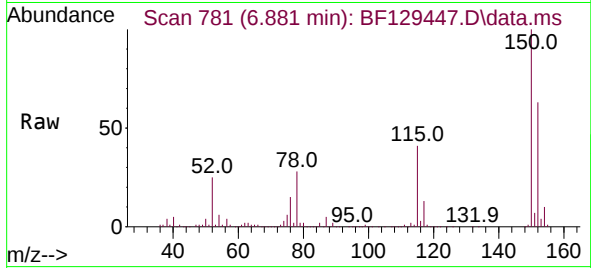




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.881 min Scan# 781  
 Delta R.T. -0.005 min  
 Lab File: BF129447.D  
 Acq: 29 Jul 2022 18:04

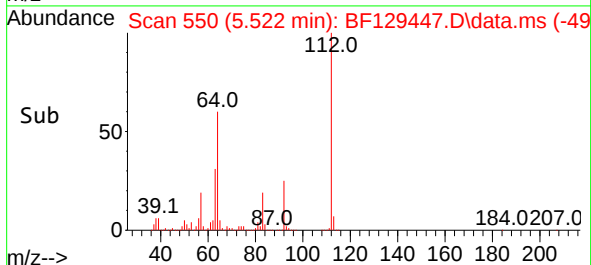
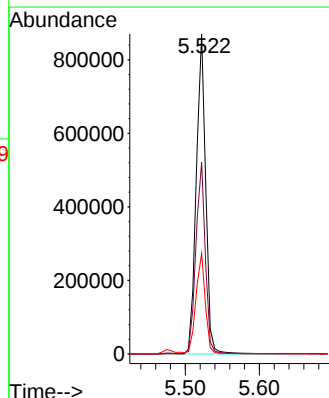
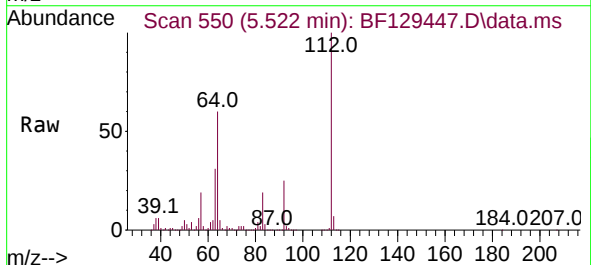
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HMGP-WATER-1

Tgt Ion:152 Resp: 193201  
 Ion Ratio Lower Upper  
 152 100  
 150 157.8 123.7 185.5  
 115 64.8 49.9 74.9



#5  
 2-Fluorophenol  
 Concen: 64.961 ng  
 RT: 5.522 min Scan# 550  
 Delta R.T. 0.024 min  
 Lab File: BF129447.D  
 Acq: 29 Jul 2022 18:04

Tgt Ion:112 Resp: 770441  
 Ion Ratio Lower Upper  
 112 100  
 64 59.9 53.3 79.9  
 63 31.4 28.0 42.0

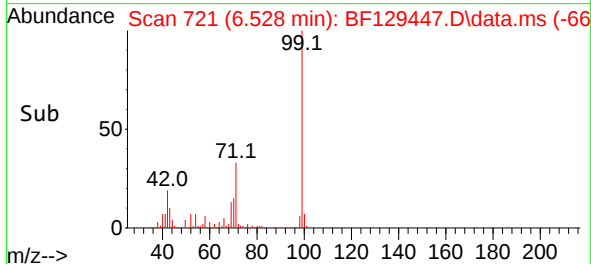
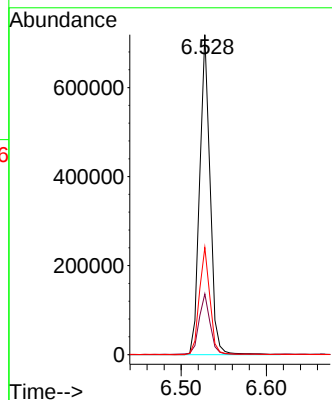
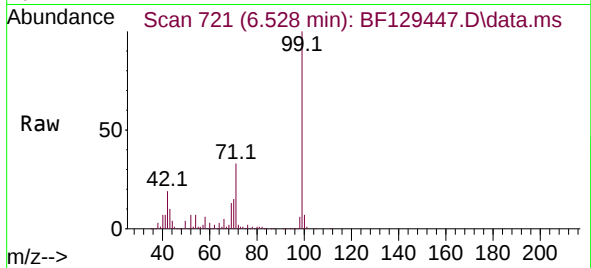




#7  
Phenol-d6  
Concen: 40.912 ng  
RT: 6.528 min Scan# 719  
Delta R.T. 0.012 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

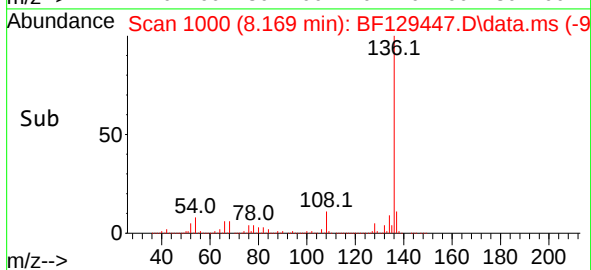
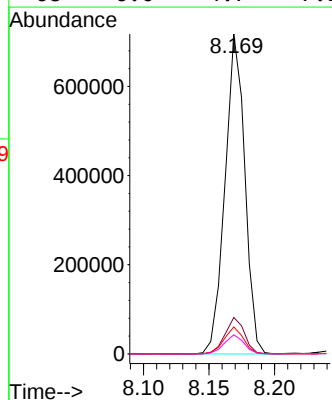
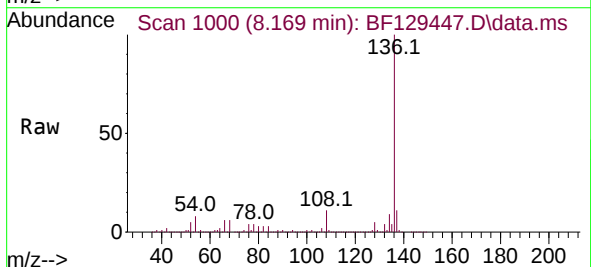
Instrument :  
BNA\_F  
ClientSampleId :  
HMGP-WATER-1

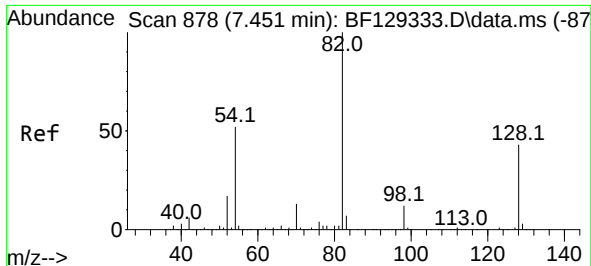
Tgt Ion: 99 Resp: 609896  
Ion Ratio Lower Upper  
99 100  
42 19.0 17.3 25.9  
71 33.5 28.9 43.3



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1000  
Delta R.T. 0.000 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

Tgt Ion: 136 Resp: 754085  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.8 13.2  
54 8.4 7.5 11.3  
68 6.0 4.7 7.1



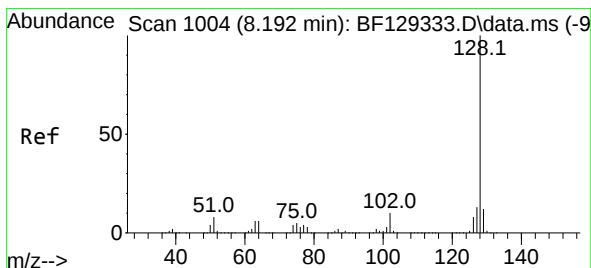
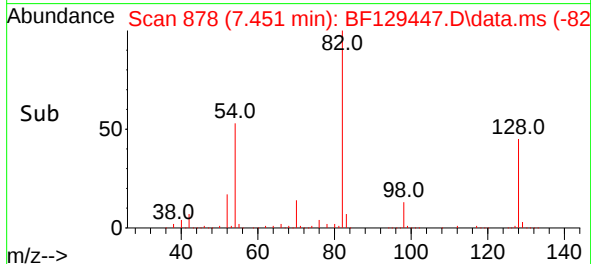
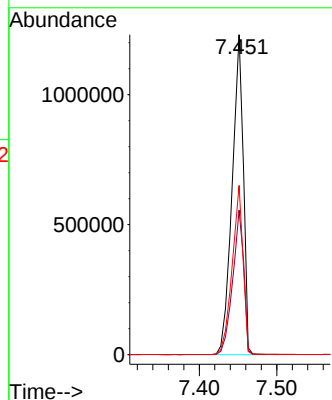
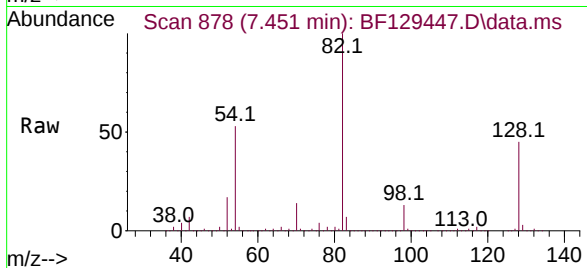


#23  
 Nitrobenzene-d5  
 Concen: 89.855 ng  
 RT: 7.451 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: BF129447.D  
 Acq: 29 Jul 2022 18:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HMGP-WATER-1

Tgt Ion: 82 Resp: 1241251  

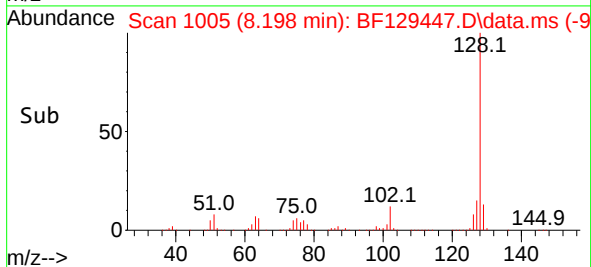
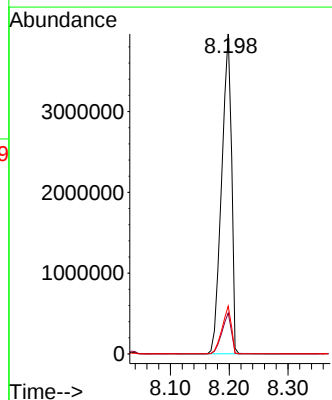
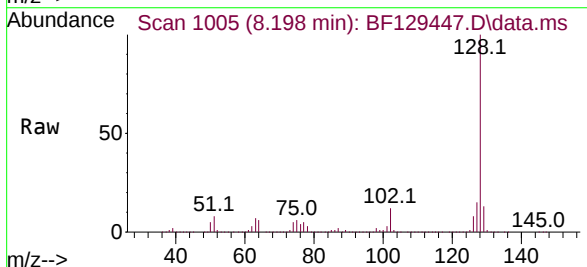
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 45.1  | 34.0  | 51.0  |
| 54  | 52.9  | 46.9  | 70.3  |

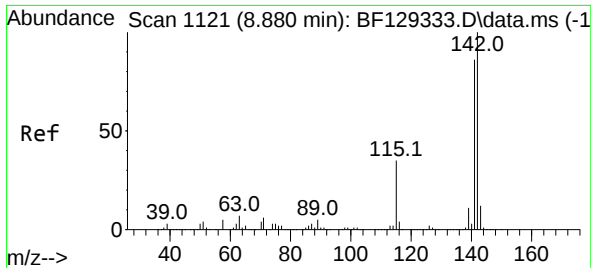


#31  
 Naphthalene  
 Concen: 120.784 ng  
 RT: 8.198 min Scan# 1005  
 Delta R.T. 0.006 min  
 Lab File: BF129447.D  
 Acq: 29 Jul 2022 18:04

Tgt Ion: 128 Resp: 4627497  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 12.8  | 9.2   | 13.8  |
| 127 | 14.9  | 10.5  | 15.7  |





#37

2-Methylnaphthalene

Concen: 33.311 ng

RT: 8.881 min Scan# 1121

Delta R.T. 0.000 min

Lab File: BF129447.D

Acq: 29 Jul 2022 18:04

Instrument :

BNA\_F

ClientSampleId :

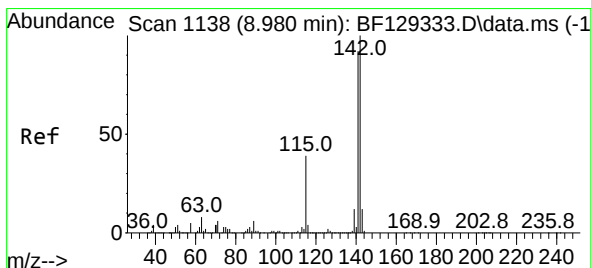
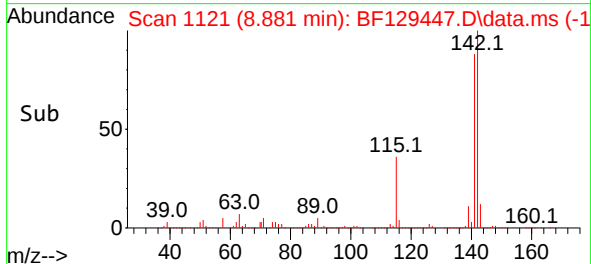
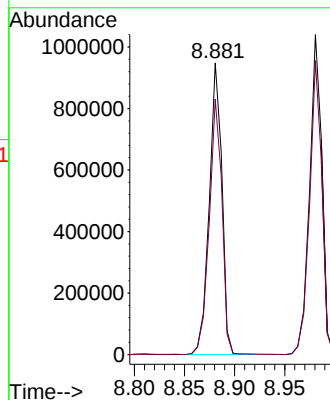
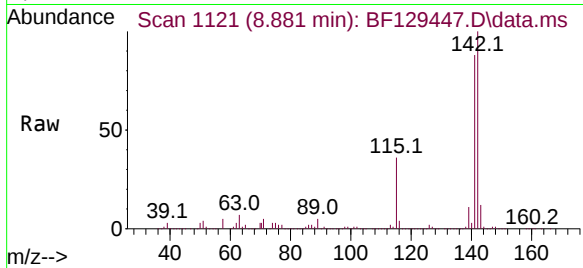
HMGP-WATER-1

Tgt Ion:142 Resp: 829348

Ion Ratio Lower Upper

142 100

141 87.6 71.0 106.4



#38

1-Methylnaphthalene

Concen: 37.089 ng

RT: 8.981 min Scan# 1138

Delta R.T. 0.000 min

Lab File: BF129447.D

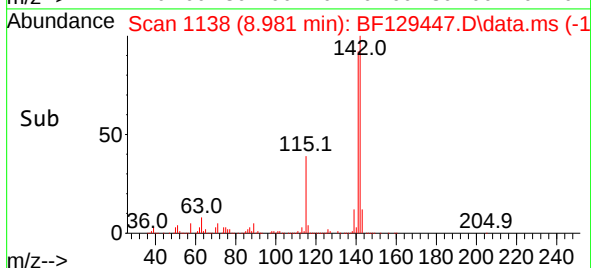
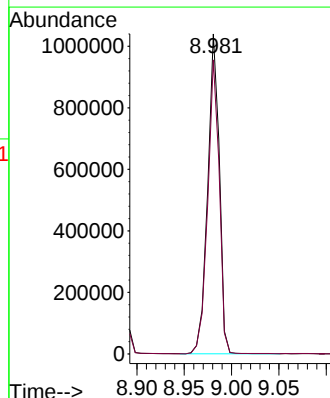
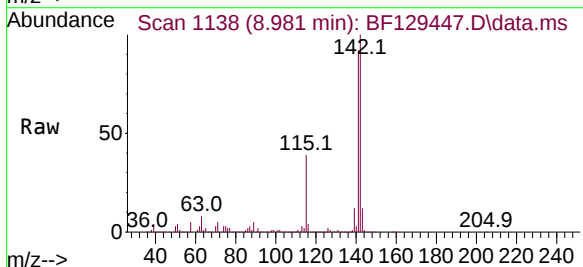
Acq: 29 Jul 2022 18:04

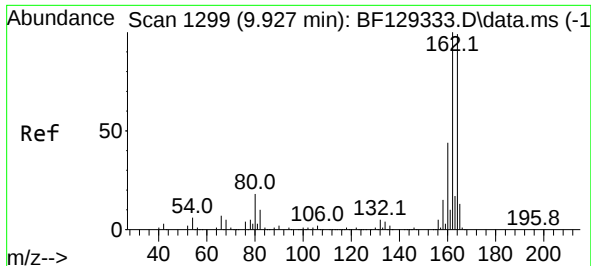
Tgt Ion:142 Resp: 891415

Ion Ratio Lower Upper

142 100

141 91.9 74.2 111.4

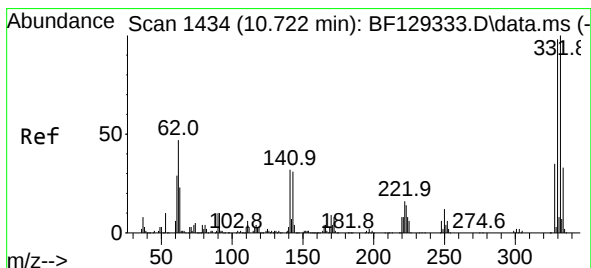
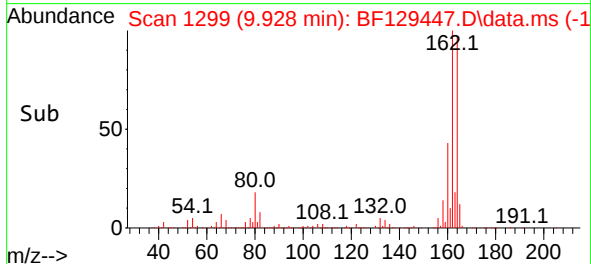
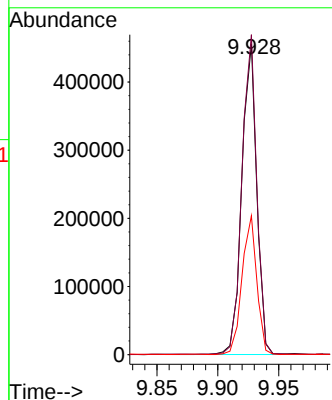
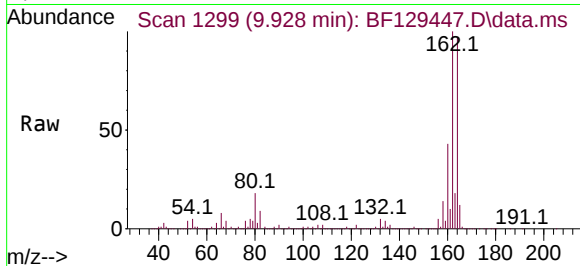




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.928 min Scan# 1299  
Delta R.T. 0.000 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

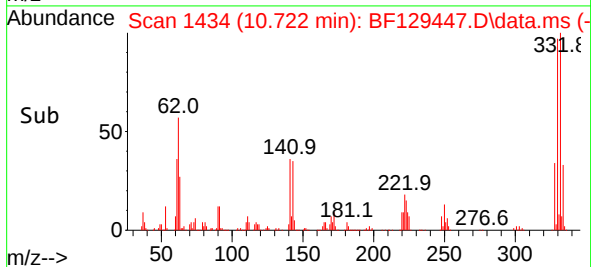
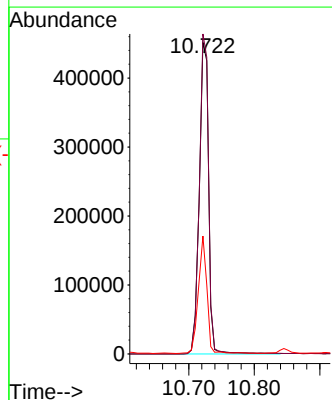
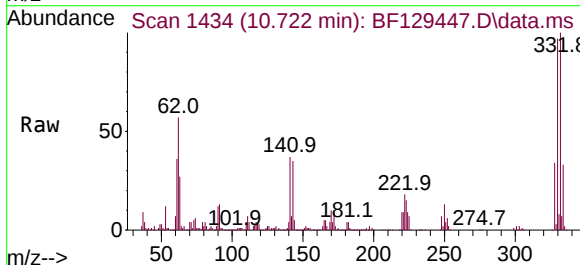
Instrument :  
BNA\_F  
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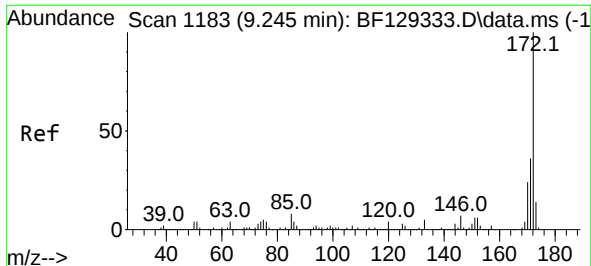
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Ion Ratio Lower Upper  
164 100  
162 102.9 79.5 119.3  
160 44.6 34.2 51.4



#42  
2,4,6-Tribromophenol  
Concen: 119.020 ng  
RT: 10.722 min Scan# 1434  
Delta R.T. 0.000 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

Tgt Ion:330 Resp: 443810  
Ion Ratio Lower Upper  
330 100  
332 102.0 76.8 115.2  
141 34.5 28.0 42.0





#45

2-Fluorobiphenyl

Concen: 82.290 ng

RT: 9.245 min Scan# 1183

Delta R.T. 0.000 min

Lab File: BF129447.D

Acq: 29 Jul 2022 18:04

Instrument :

BNA\_F

ClientSampleId :

HMGP-WATER-1

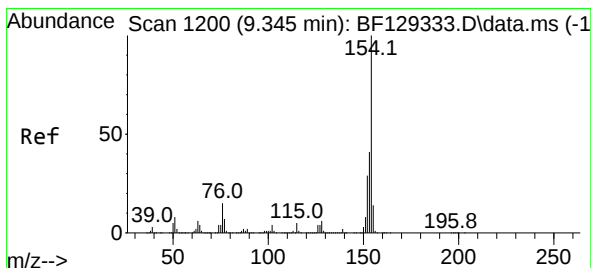
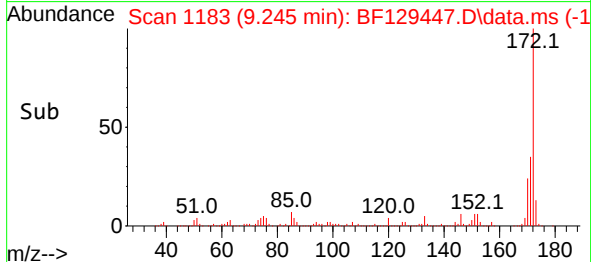
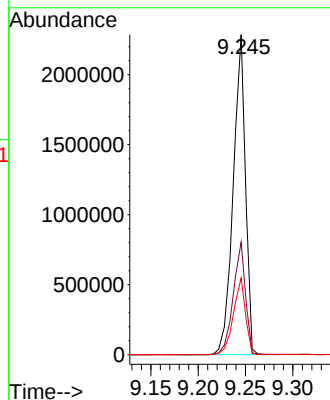
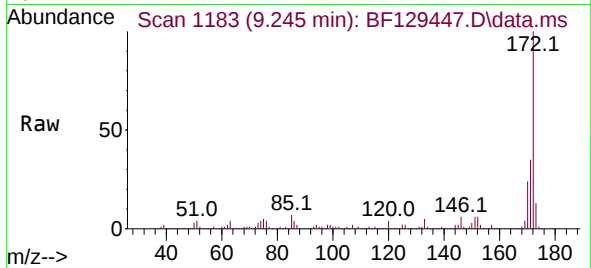
Tgt Ion:172 Resp: 2063148

Ion Ratio Lower Upper

172 100

171 35.2 28.8 43.2

170 24.0 19.8 29.8



#46

1,1'-Biphenyl

Concen: 10.084 ng

RT: 9.345 min Scan# 1200

Delta R.T. 0.000 min

Lab File: BF129447.D

Acq: 29 Jul 2022 18:04

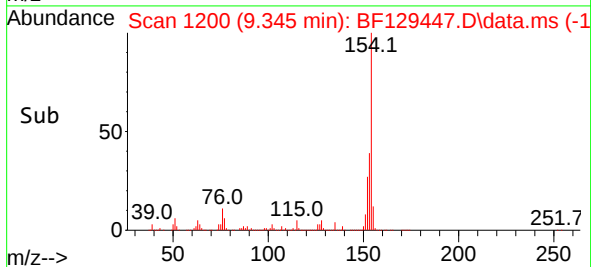
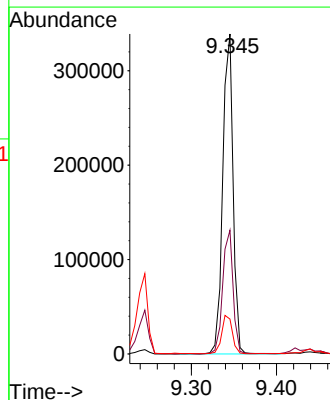
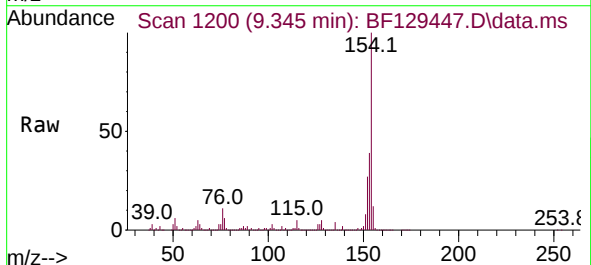
Tgt Ion:154 Resp: 285425

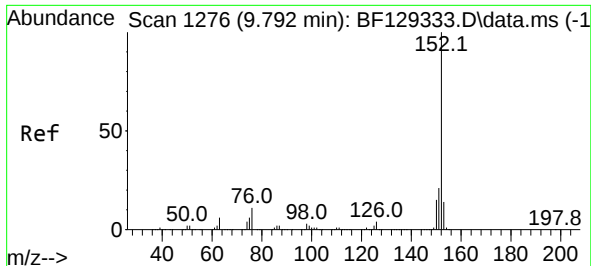
Ion Ratio Lower Upper

154 100

153 38.6 20.6 60.6

76 10.9 0.0 33.3





#49

Acenaphthylene

Concen: 4.170 ng

RT: 9.786 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF129447.D

Acq: 29 Jul 2022 18:04

Instrument :

BNA\_F

ClientSampleId :

HMGP-WATER-1

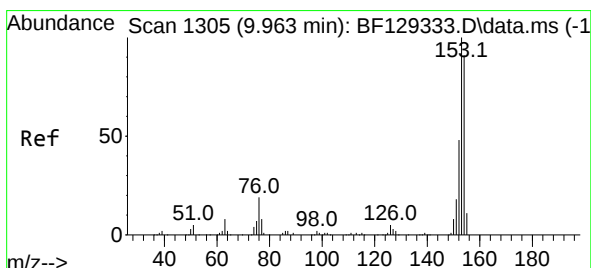
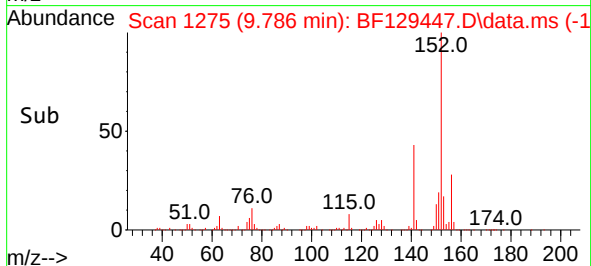
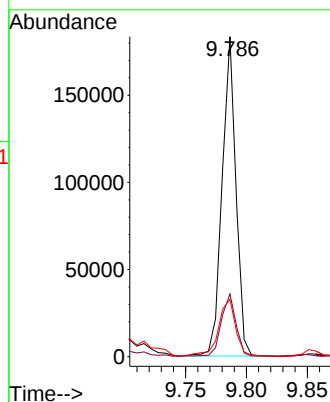
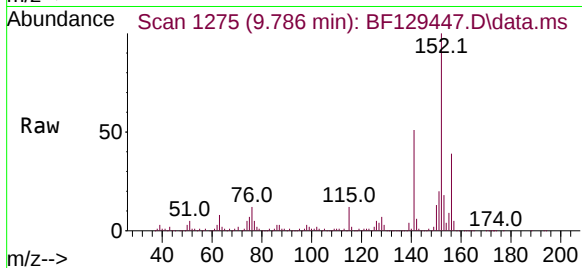
Tgt Ion:152 Resp: 145001

Ion Ratio Lower Upper

152 100

151 19.6 16.2 24.4

153 18.0 10.7 16.1#



#52

Acenaphthene

Concen: 21.554 ng

RT: 9.957 min Scan# 1304

Delta R.T. -0.006 min

Lab File: BF129447.D

Acq: 29 Jul 2022 18:04

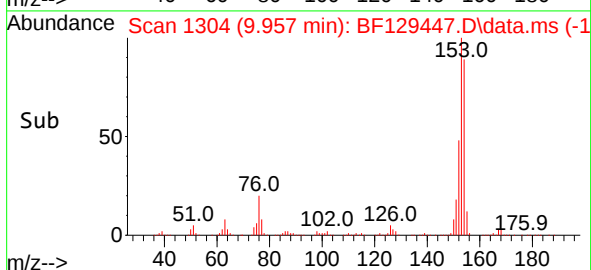
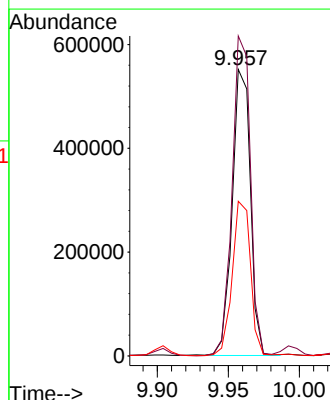
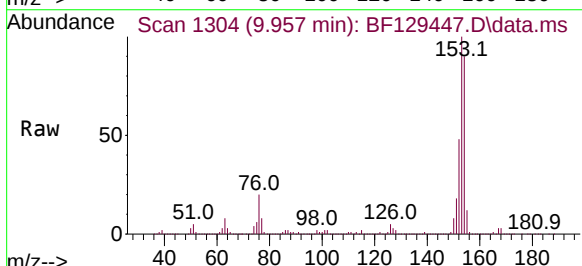
Tgt Ion:154 Resp: 489478

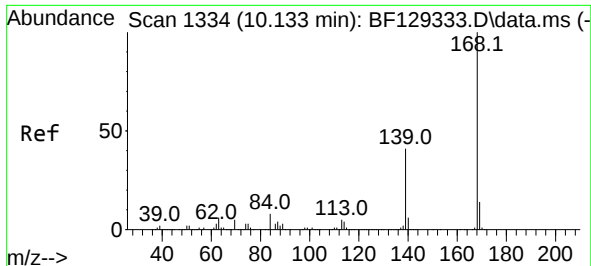
Ion Ratio Lower Upper

154 100

153 111.7 89.6 134.4

152 54.0 42.4 63.6

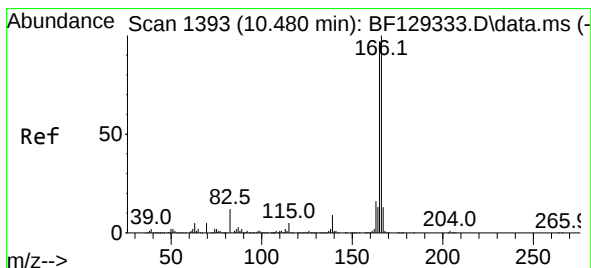
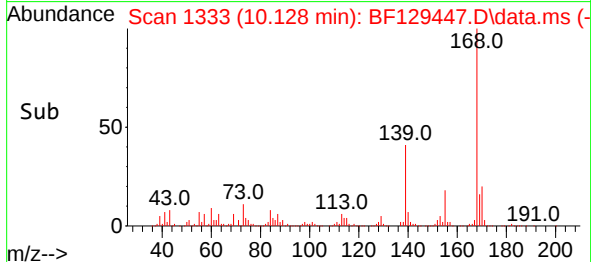
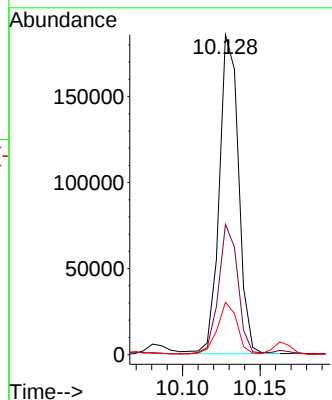
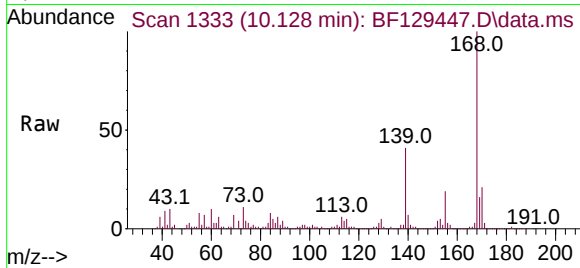




#55  
Dibenzenofuran  
Concen: 5.156 ng  
RT: 10.128 min Scan# 1333  
Delta R.T. -0.006 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

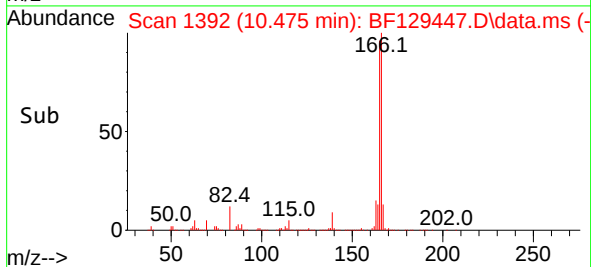
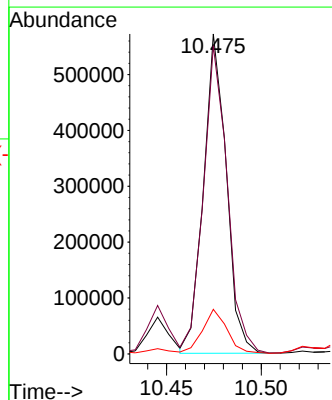
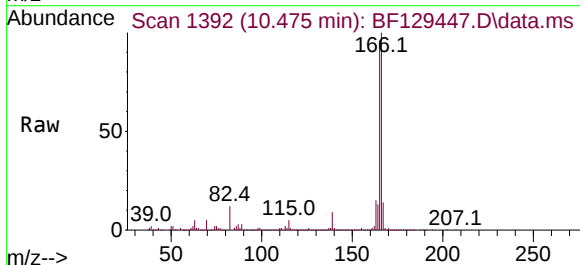
Instrument :  
BNA\_F  
ClientSampleId :  
HMGP-WATER-1

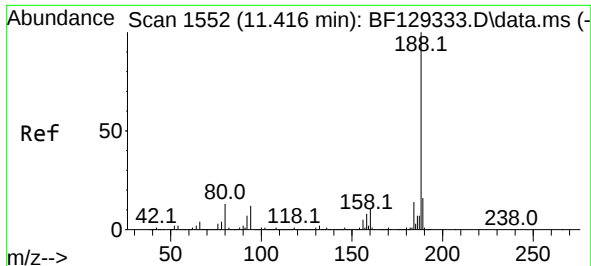
Tgt Ion:168 Resp: 161422  
Ion Ratio Lower Upper  
168 100  
139 40.7 30.6 46.0  
169 16.3 11.0 16.6



#58  
Fluorene  
Concen: 19.185 ng  
RT: 10.475 min Scan# 1392  
Delta R.T. -0.006 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

Tgt Ion:166 Resp: 480540  
Ion Ratio Lower Upper  
166 100  
165 96.3 78.1 117.1  
167 13.9 10.5 15.7

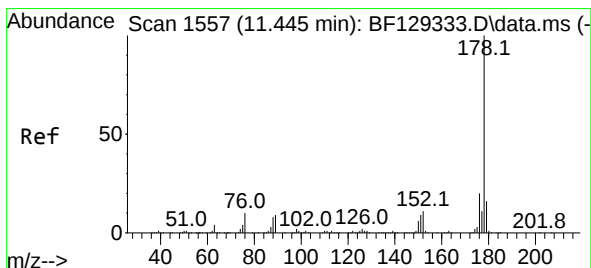
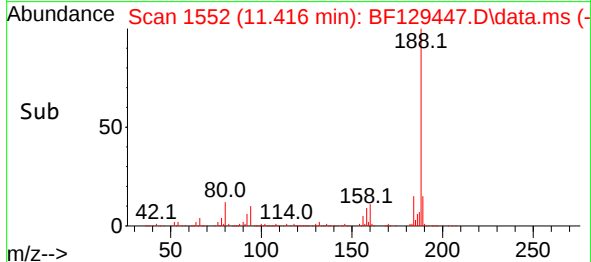
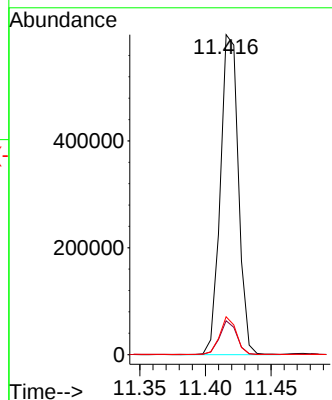
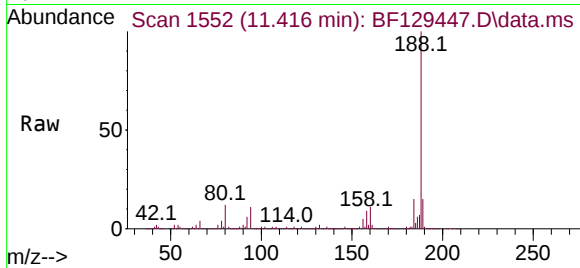




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

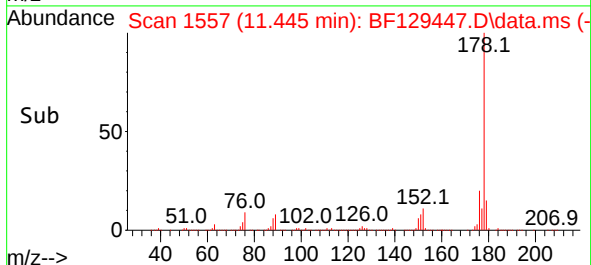
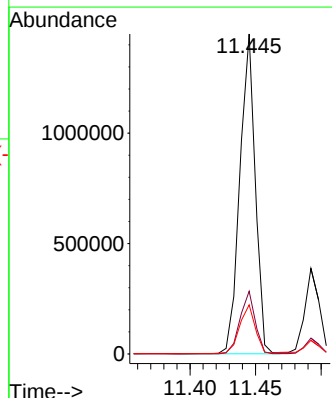
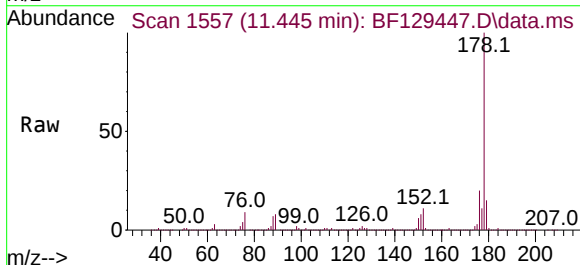
Instrument :  
BNA\_F  
ClientSampleId :  
HMGP-WATER-1

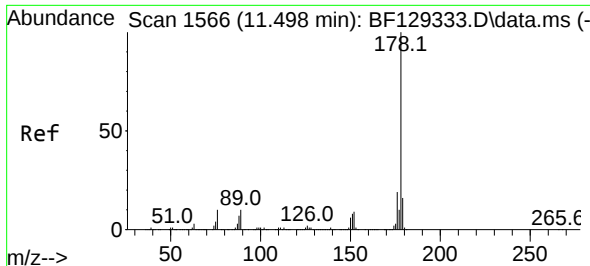
Tgt Ion:188 Resp: 575354  
Ion Ratio Lower Upper  
188 100  
94 10.6 7.0 10.6#  
80 11.8 7.6 11.4#



#71  
Phenanthrene  
Concen: 37.732 ng  
RT: 11.445 min Scan# 1557  
Delta R.T. 0.000 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

Tgt Ion:178 Resp: 1185053  
Ion Ratio Lower Upper  
178 100  
176 19.6 16.0 24.0  
179 15.3 12.6 19.0

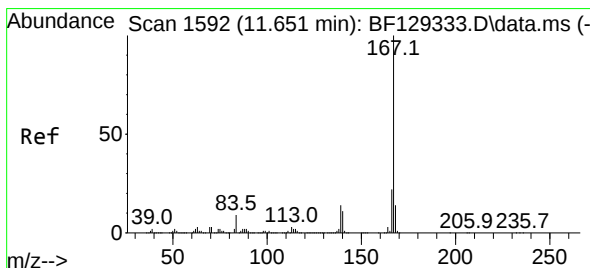
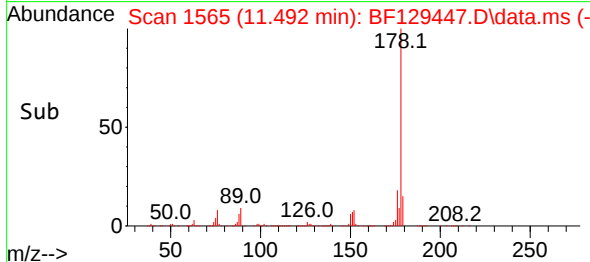
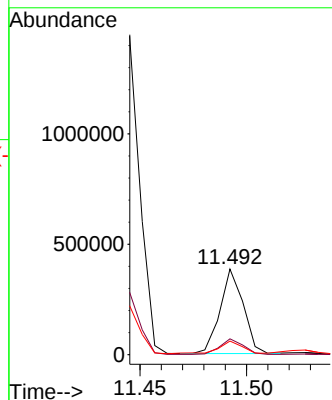
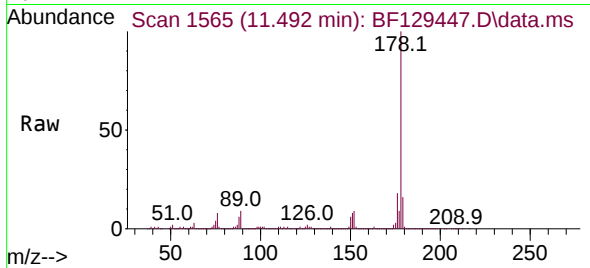




#72  
 Anthracene  
 Concen: 9.399 ng  
 RT: 11.492 min Scan# 1566  
 Delta R.T. -0.006 min  
 Lab File: BF129447.D  
 Acq: 29 Jul 2022 18:04

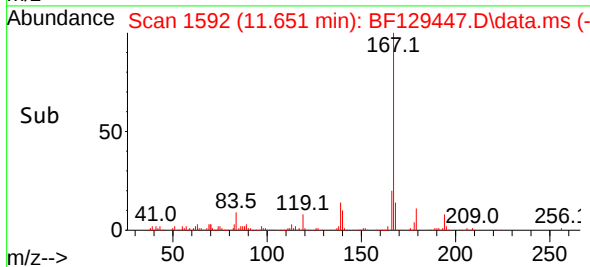
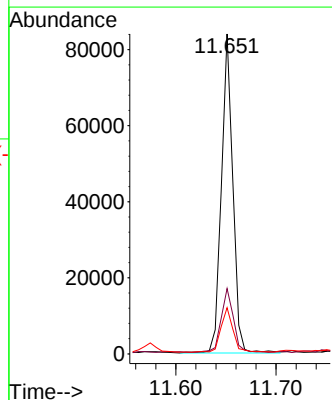
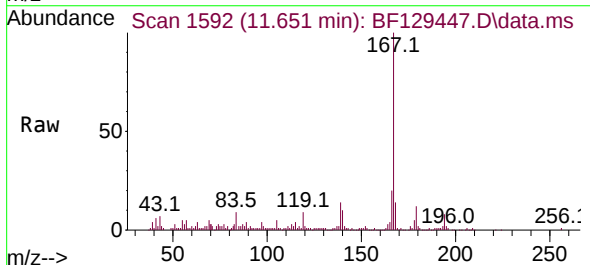
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HMGP-WATER-1

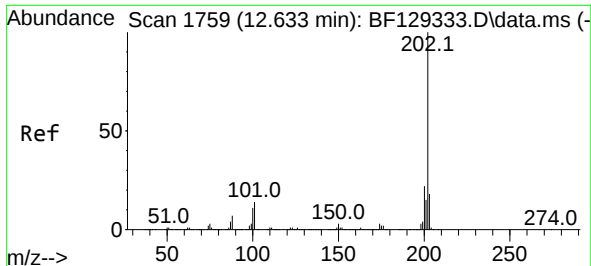
Tgt Ion:178 Resp: 290099  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 15.4 23.2  
 179 15.8 12.6 19.0



#73  
 Carbazole  
 Concen: 2.303 ng  
 RT: 11.651 min Scan# 1592  
 Delta R.T. 0.000 min  
 Lab File: BF129447.D  
 Acq: 29 Jul 2022 18:04

Tgt Ion:167 Resp: 66899  
 Ion Ratio Lower Upper  
 167 100  
 166 20.4 17.7 26.5  
 139 14.4 11.2 16.8

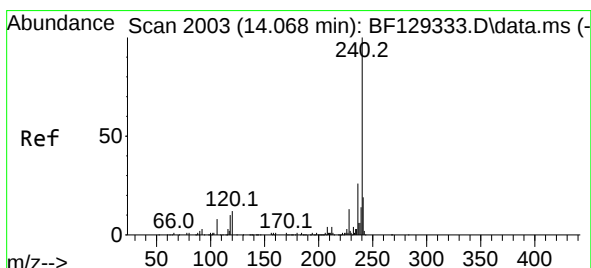
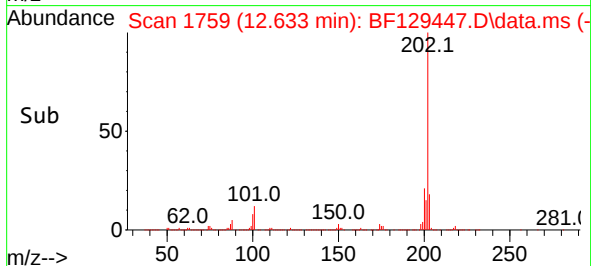
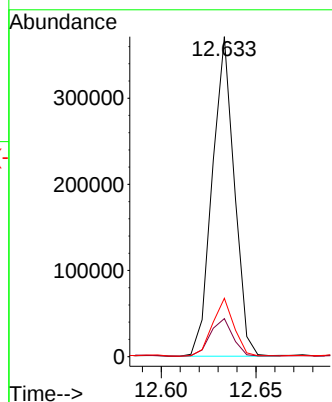
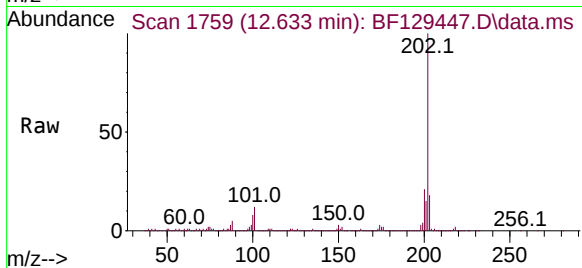




#75  
Fluoranthene  
Concen: 9.447 ng  
RT: 12.633 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

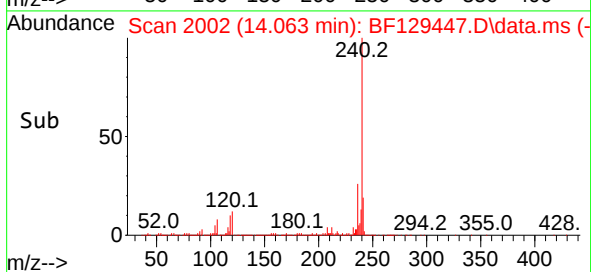
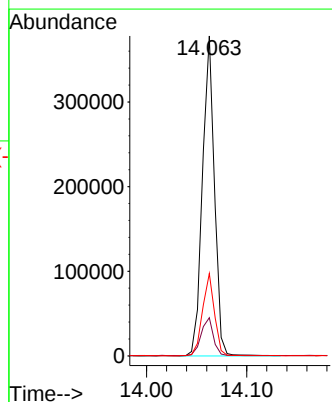
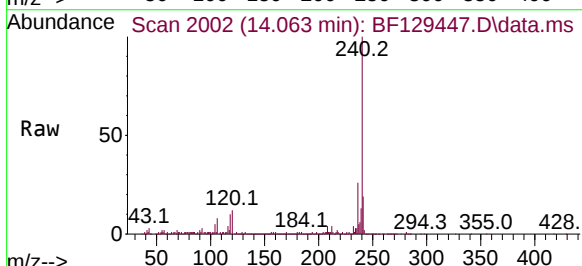
Instrument :  
BNA\_F  
ClientSampleId :  
HMGP-WATER-1

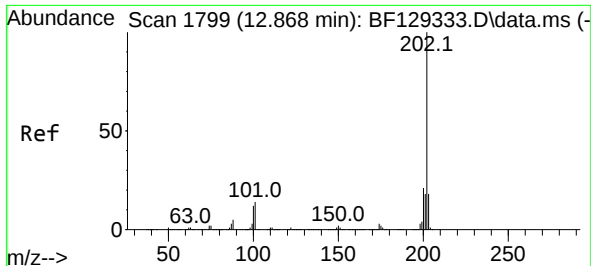
Tgt Ion:202 Resp: 300631  
Ion Ratio Lower Upper  
202 100  
101 11.9 0.0 31.4  
203 18.2 0.0 38.0



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.063 min Scan# 2002  
Delta R.T. -0.006 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

Tgt Ion:240 Resp: 313106  
Ion Ratio Lower Upper  
240 100  
120 11.9 8.9 13.3  
236 25.7 20.8 31.2

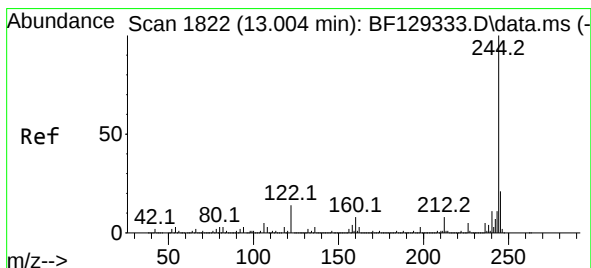
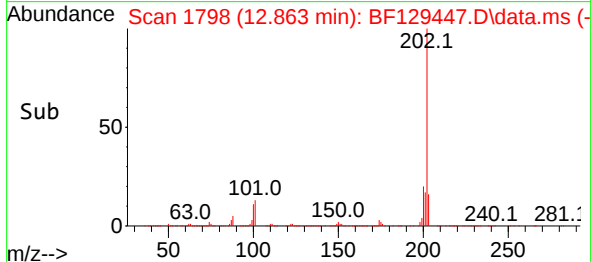
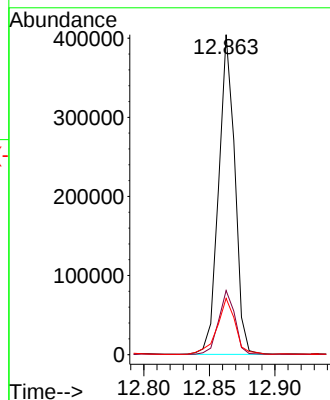
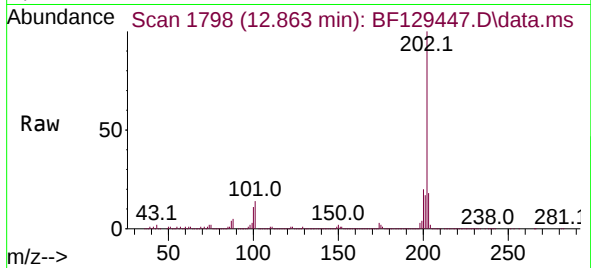




#78  
Pyrene  
Concen: 13.294 ng  
RT: 12.863 min Scan# 1799  
Delta R.T. -0.006 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

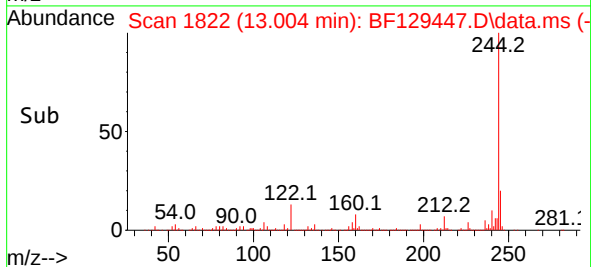
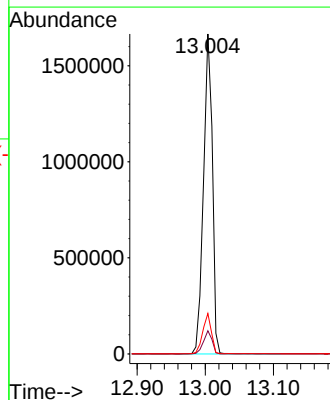
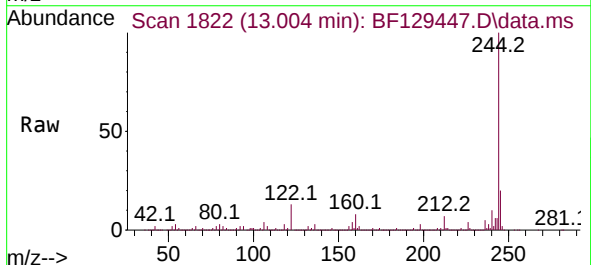
Instrument :  
BNA\_F  
ClientSampleId :  
HMGP-WATER-1

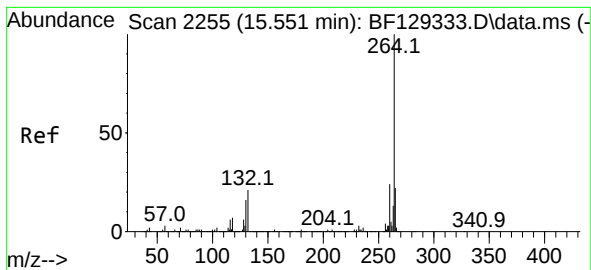
Tgt Ion:202 Resp: 348071  
Ion Ratio Lower Upper  
202 100  
200 20.0 17.7 26.5  
203 17.6 14.6 21.8



#79  
Terphenyl-d14  
Concen: 90.912 ng  
RT: 13.004 min Scan# 1822  
Delta R.T. 0.000 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

Tgt Ion:244 Resp: 1508823  
Ion Ratio Lower Upper  
244 100  
212 7.2 6.1 9.1  
122 12.6 8.8 13.2





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.557 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF129447.D  
Acq: 29 Jul 2022 18:04

Instrument :  
BNA\_F  
ClientSampleId :  
HMGP-WATER-1

Tgt Ion:264 Resp: 365440  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.2  | 18.4  | 27.6  |
| 265 | 21.7  | 17.2  | 25.8  |

