

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101221\  
 Data File : BF125803.D  
 Acq On : 12 Oct 2021 15:43  
 Operator : JU/CG  
 Sample : M4112-07  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 2-SIDE

Quant Time: Oct 12 16:28:21 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF100721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 07 17:16:23 2021  
 Response via : Initial Calibration

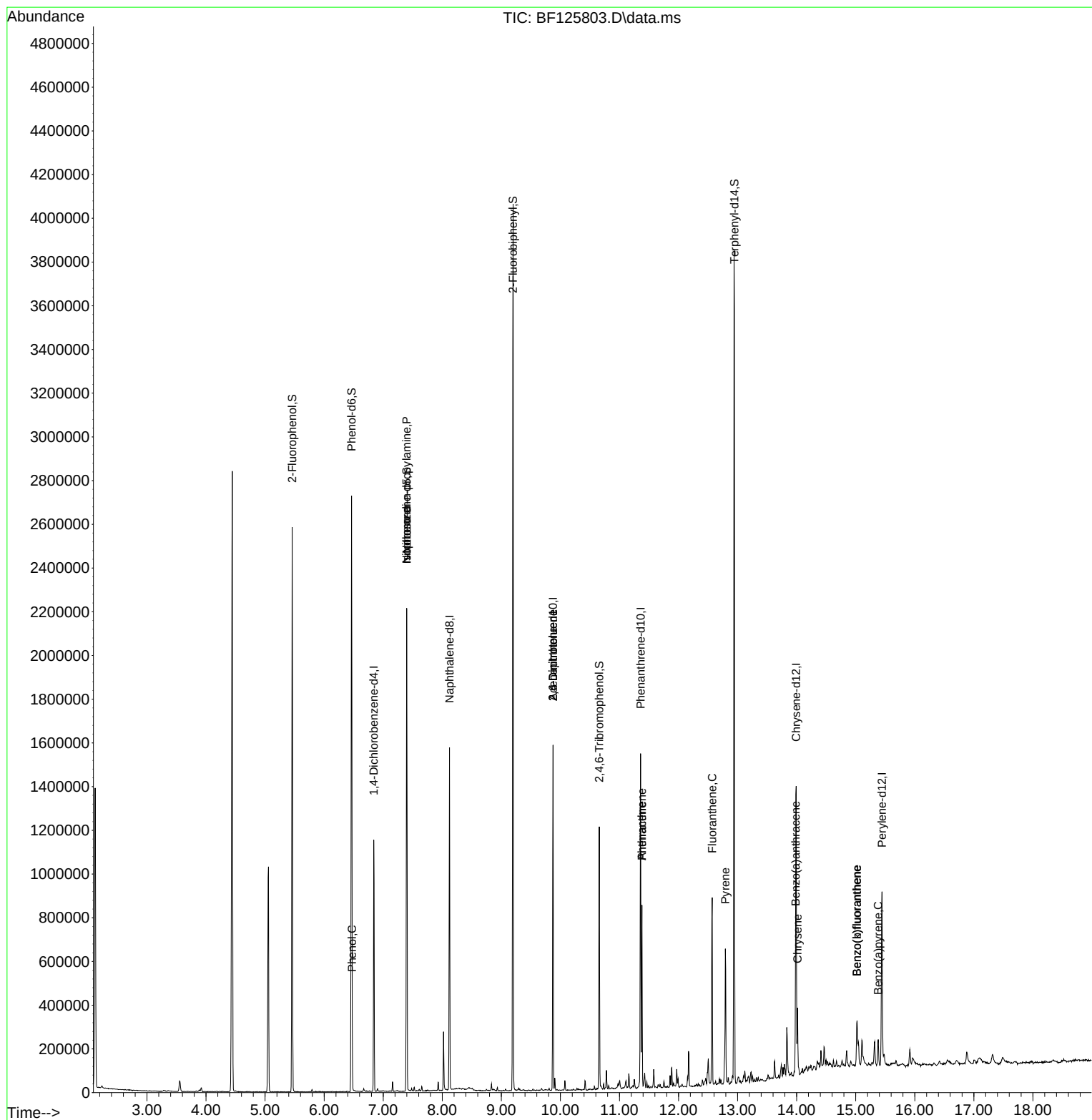
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.840  | 152  | 171308   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.122  | 136  | 631176   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.875  | 164  | 292914   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.357 | 188  | 493440   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.992 | 240  | 434715   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.445 | 264  | 355169   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.457  | 112  | 743730   | 70.924 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.463  | 99   | 988873   | 73.253 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.398  | 82   | 646325   | 63.652 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.657 | 330  | 132783   | 45.914 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.198  | 172  | 1231744  | 72.531 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.945 | 244  | 1330577  | 46.624 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 10) Phenol                    | 6.475  | 94   | 46927    | 3.575  | ng    | 90       |
| 19) n-Nitroso-di-n-propyla... | 7.398  | 70   | 80096    | 11.240 | ng    | # 52     |
| 25) Isophorone                | 7.398  | 82   | 643536   | 35.774 | ng    | # 59     |
| 51) 2,6-Dinitrotoluene        | 9.875  | 165  | 37586    | 9.644  | ng    | # 27     |
| 57) 2,4-Dinitrotoluene        | 9.875  | 165  | 37586    | 7.627  | ng    | # 19     |
| 71) Phenanthrene              | 11.380 | 178  | 285192   | 10.802 | ng    | 100      |
| 72) Anthracene                | 11.380 | 178  | 285192   | 10.815 | ng    | 98       |
| 75) Fluoranthene              | 12.569 | 202  | 333429   | 13.996 | ng    | 99       |
| 78) Pyrene                    | 12.792 | 202  | 243655   | 5.517  | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.980 | 228  | 60754    | 2.154  | ng    | 96       |
| 83) Chrysene                  | 14.016 | 228  | 113721   | 4.079  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.021 | 252  | 154156   | 7.688  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.021 | 252  | 154156   | 7.488  | ng    | # 97     |
| 90) Benzo(a)pyrene            | 15.380 | 252  | 57883    | 3.260  | ng    | 97       |
| -----                         |        |      |          |        |       |          |

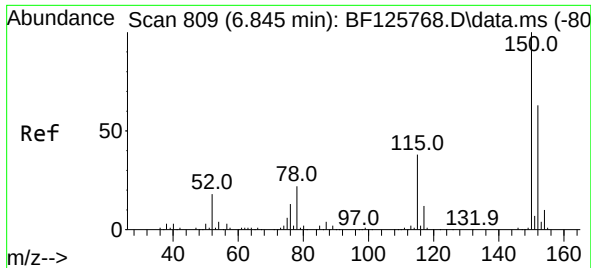
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101221\  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF100721.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 07 17:16:23 2021  
Response via : Initial Calibration

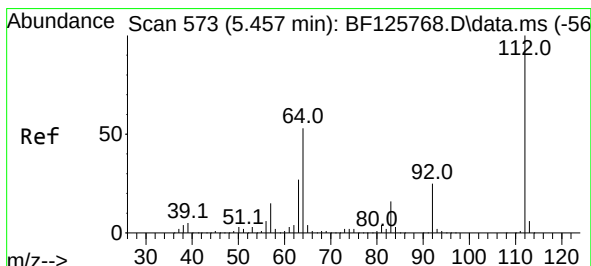
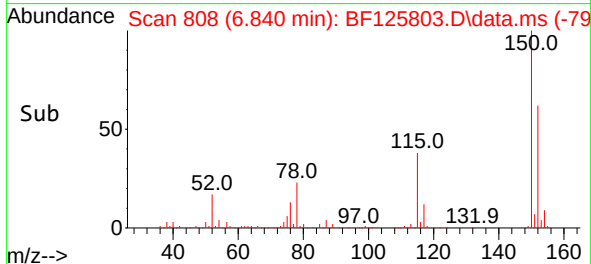
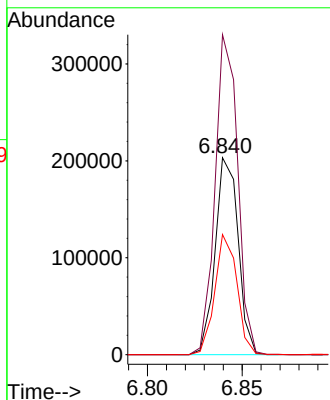
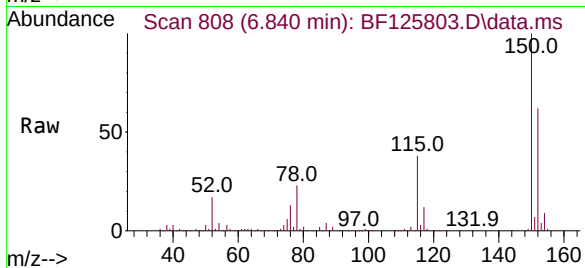




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.840 min Scan# 808  
Delta R.T. -0.005 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

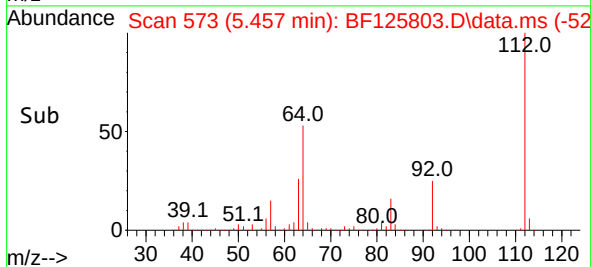
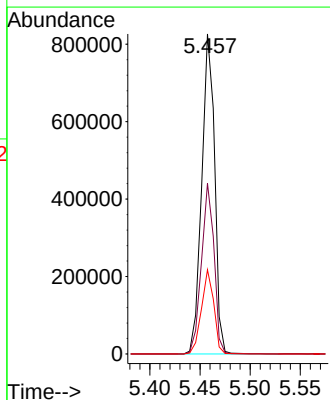
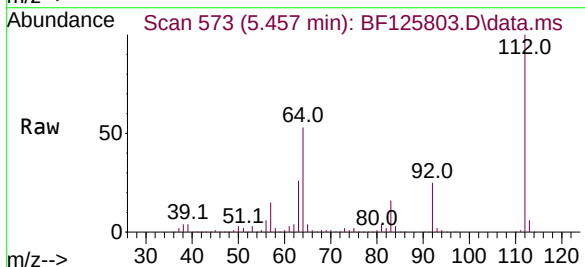
Instrument :  
BNA\_G  
ClientSampleId :  
2-SIDE

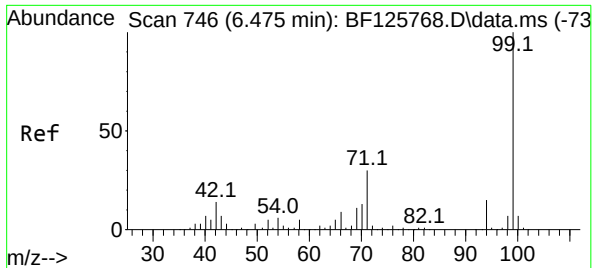
Tgt Ion:152 Resp: 171308  
Ion Ratio Lower Upper  
152 100  
150 162.5 117.6 176.4  
115 61.1 47.1 70.7



#5  
2-Fluorophenol  
Concen: 70.924 ng  
RT: 5.457 min Scan# 573  
Delta R.T. 0.000 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Tgt Ion:112 Resp: 743730  
Ion Ratio Lower Upper  
112 100  
64 53.3 44.2 66.2  
63 26.3 26.2 39.2

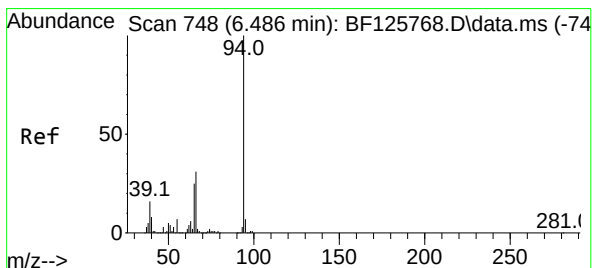
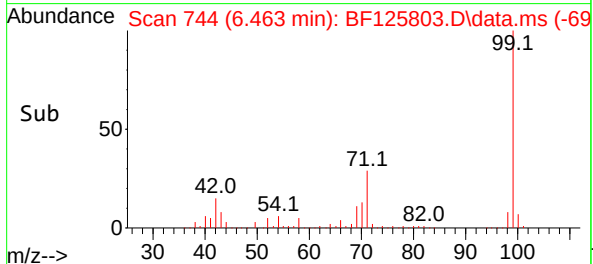
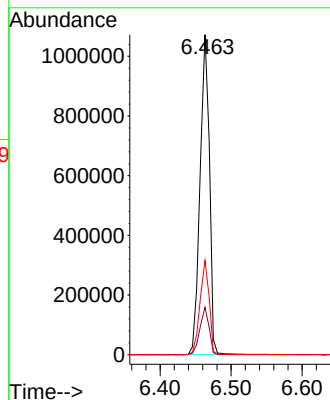
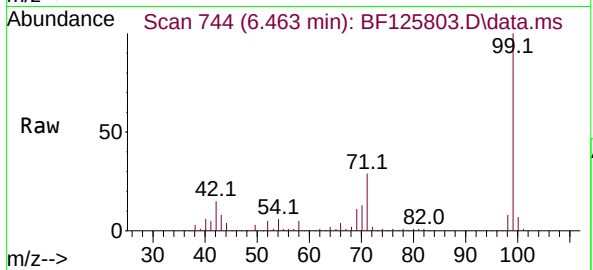




#7  
Phenol-d6  
Concen: 73.253 ng  
RT: 6.463 min Scan# 744  
Delta R.T. -0.012 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

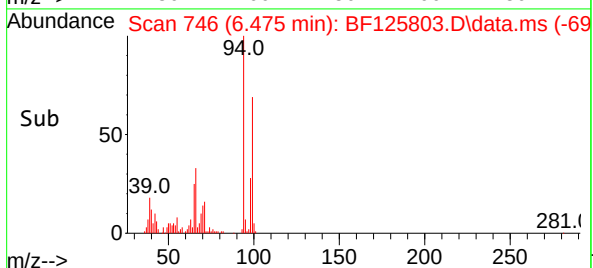
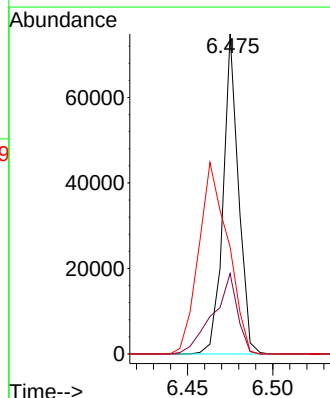
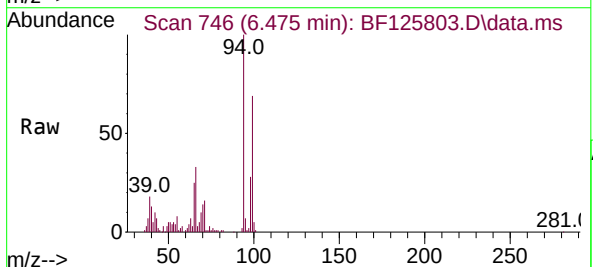
Instrument :  
BNA\_G  
ClientSampled :  
2-SIDE

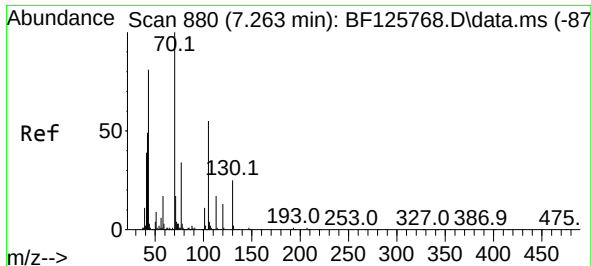
Tgt Ion: 99 Resp: 988873  
Ion Ratio Lower Upper  
99 100  
42 14.8 23.5 35.3#  
71 29.5 25.6 38.4



#10  
Phenol  
Concen: 3.575 ng  
RT: 6.475 min Scan# 746  
Delta R.T. -0.011 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

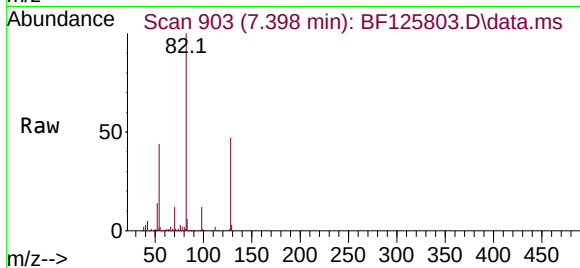
Tgt Ion: 94 Resp: 46927  
Ion Ratio Lower Upper  
94 100  
65 25.2 9.3 49.3  
66 33.4 20.3 60.3



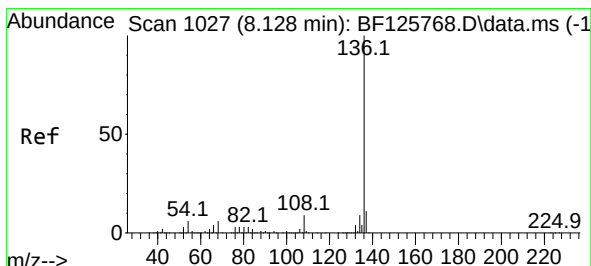
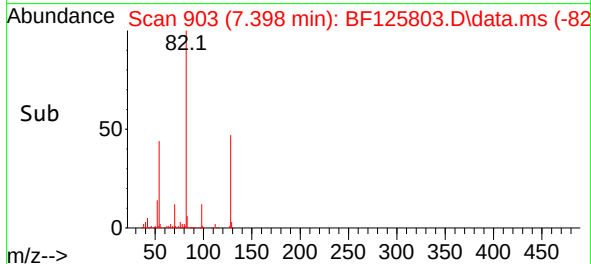
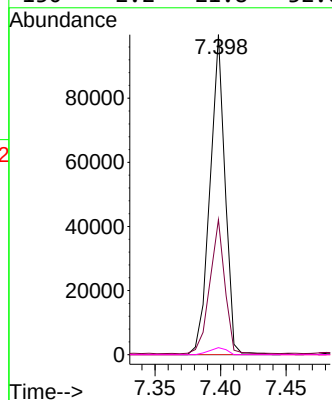


#19  
n-Nitroso-di-n-propylamine  
Concen: 11.240 ng  
RT: 7.398 min Scan# 903  
Delta R.T. 0.136 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Instrument :  
BNA\_G  
ClientSampled :  
2-SIDE

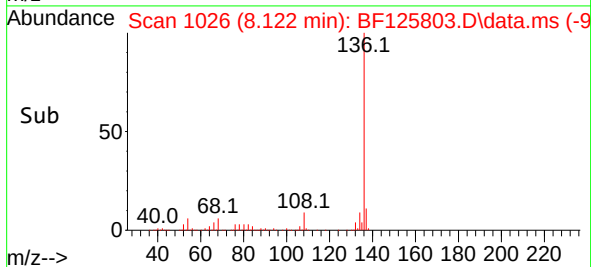
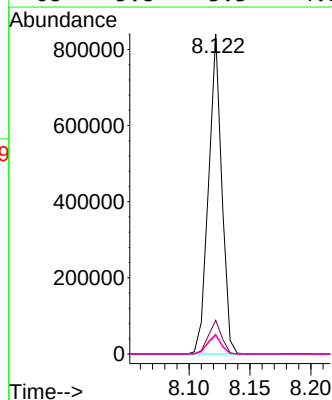
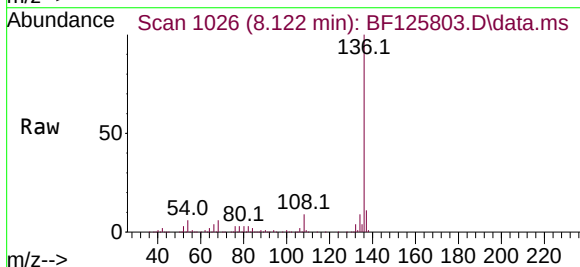


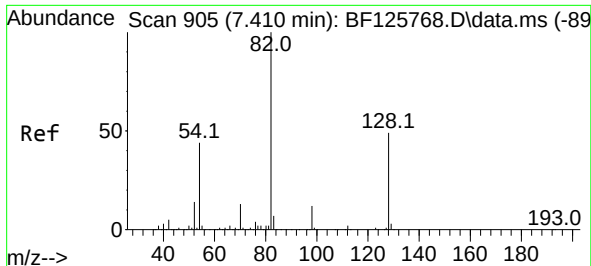
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 70      | 100   |       |        |
| 42      | 42.2  | 72.2  | 108.2# |
| 101     | 0.0   | 7.8   | 11.8#  |
| 130     | 2.2   | 21.8  | 32.6#  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.122 min Scan# 1026  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.6  | 9.8   | 14.6  |
| 54      | 6.1   | 6.4   | 9.6#  |
| 68      | 5.8   | 3.3   | 4.9#  |

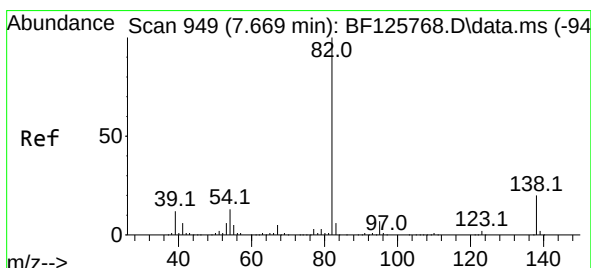
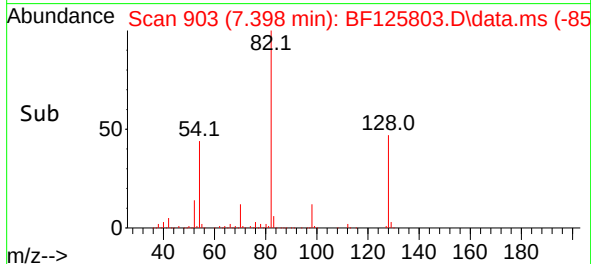
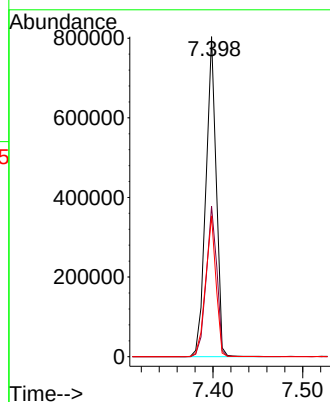
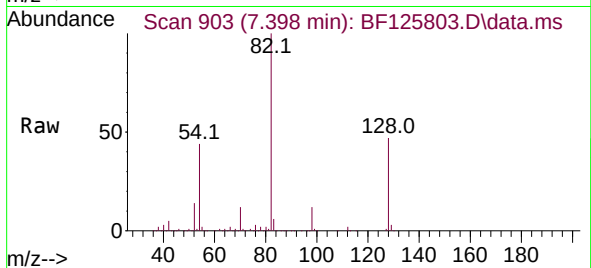




#23  
Nitrobenzene-d5  
Concen: 63.652 ng  
RT: 7.398 min Scan# 903  
Delta R.T. -0.012 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

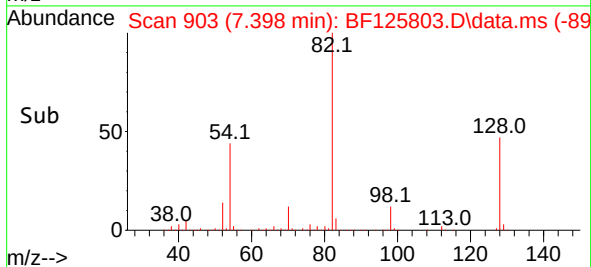
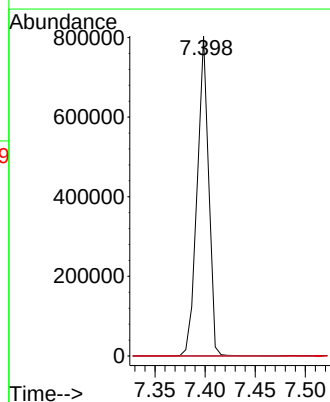
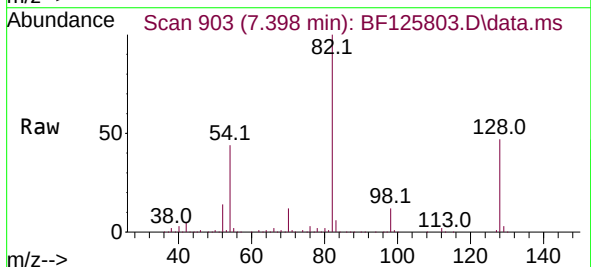
Instrument :  
BNA\_G  
ClientSampleId :  
2-SIDE

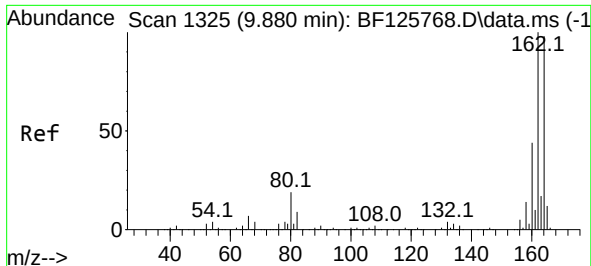
Tgt Ion: 82 Resp: 646325  
Ion Ratio Lower Upper  
82 100  
128 47.0 40.6 60.8  
54 44.0 49.6 74.4#



#25  
Isophorone  
Concen: 35.774 ng  
RT: 7.398 min Scan# 903  
Delta R.T. -0.270 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Tgt Ion: 82 Resp: 643536  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.5 9.7#  
138 0.0 18.4 27.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.875 min Scan# 1324

Delta R.T. -0.006 min

Lab File: BF125803.D

Acq: 12 Oct 2021 15:43

Tgt Ion:164 Resp: 292914

Ion Ratio Lower Upper

164 100

162 103.4 81.3 121.9

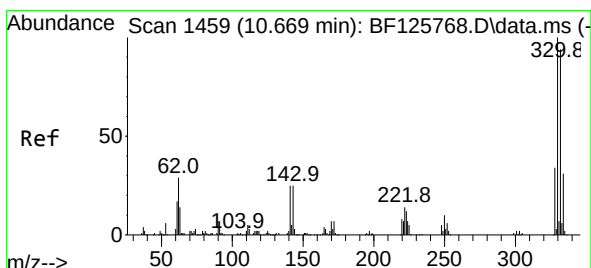
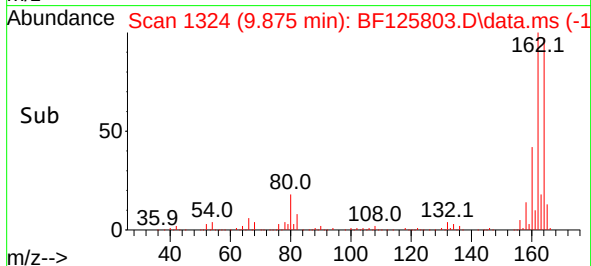
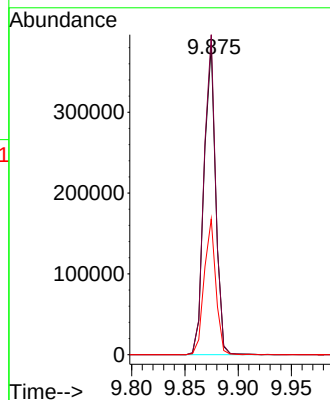
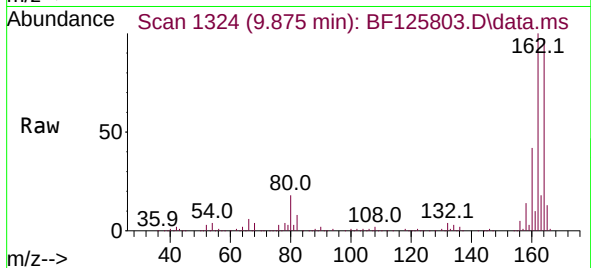
160 43.8 38.0 57.0

Instrument :

BNA\_G

ClientSampleId :

2-SIDE



#42

2,4,6-Tribromophenol

Concen: 45.914 ng

RT: 10.657 min Scan# 1457

Delta R.T. -0.012 min

Lab File: BF125803.D

Acq: 12 Oct 2021 15:43

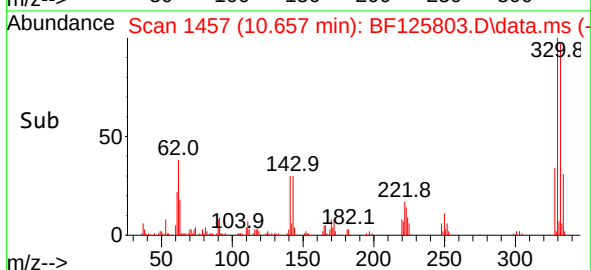
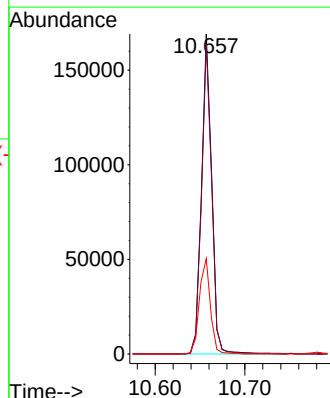
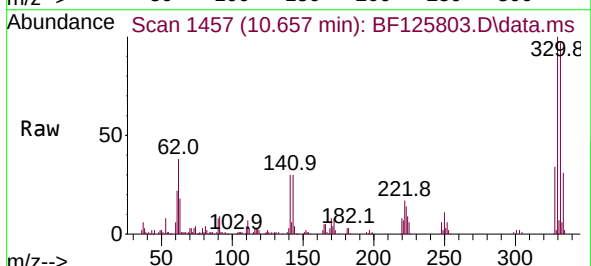
Tgt Ion:330 Resp: 132783

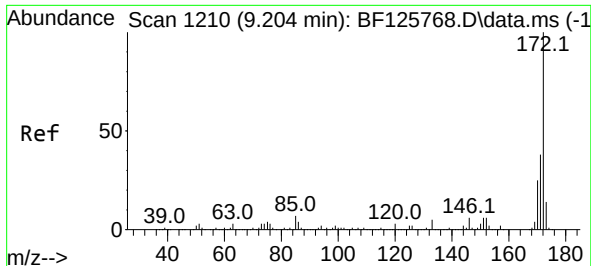
Ion Ratio Lower Upper

330 100

332 96.9 76.2 114.4

141 32.0 44.6 66.8#

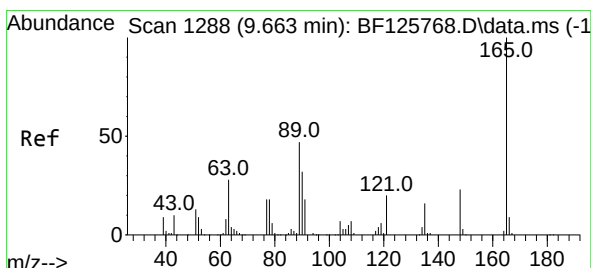
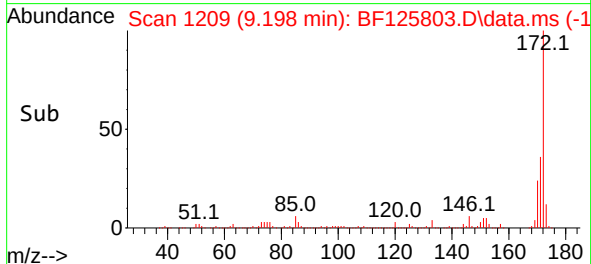
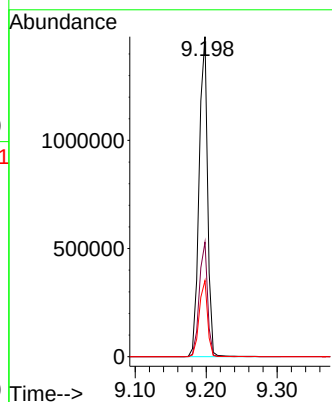
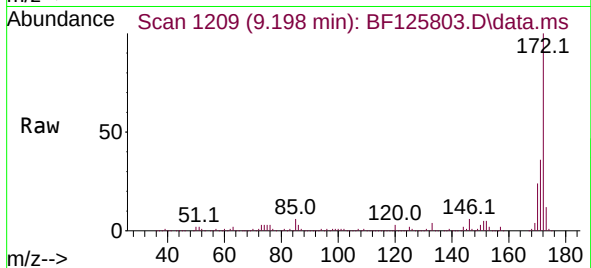




#45  
2-Fluorobiphenyl  
Concen: 72.531 ng  
RT: 9.198 min Scan# 1209  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

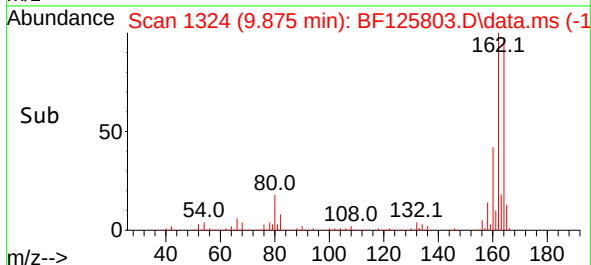
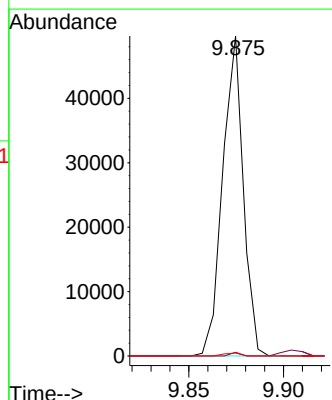
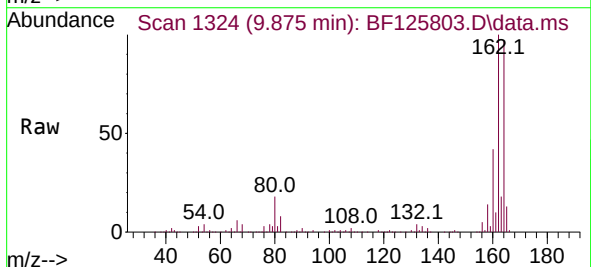
Instrument :  
BNA\_G  
ClientSampleId :  
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Tgt Ion:172 Resp: 1231744  
Ion Ratio Lower Upper  
172 100  
171 35.8 26.5 39.7  
170 23.8 18.8 28.2

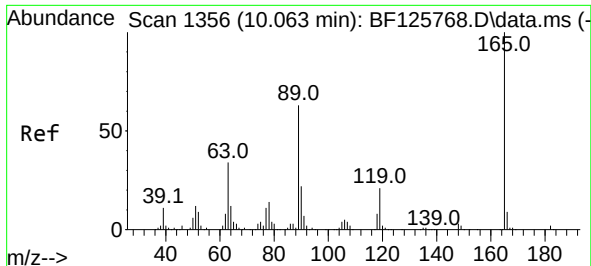


#51  
2,6-Dinitrotoluene  
Concen: 9.644 ng  
RT: 9.875 min Scan# 1324  
Delta R.T. 0.212 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Tgt Ion:165 Resp: 37586  
Ion Ratio Lower Upper  
165 100  
63 1.1 42.6 63.8#  
89 0.9 40.6 60.8#

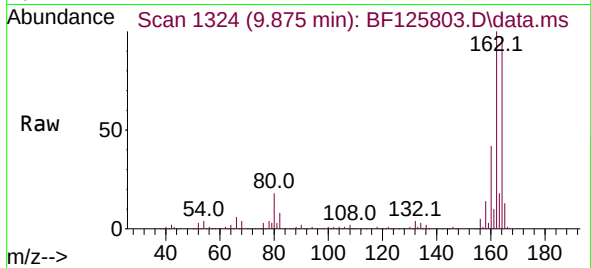




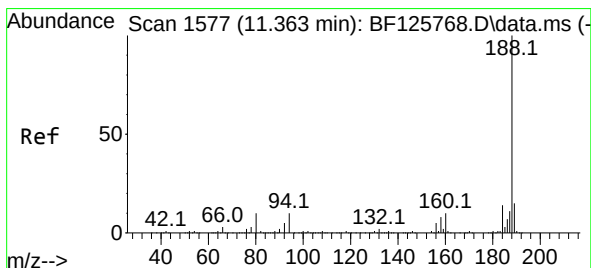
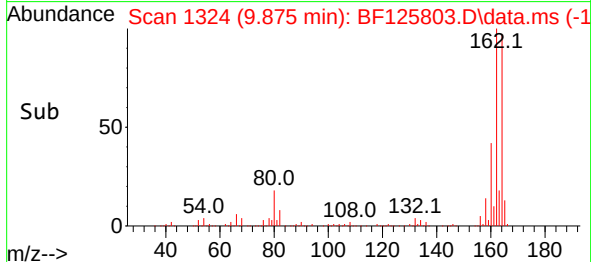
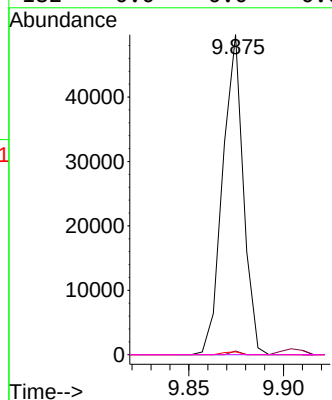


#57  
2,4-Dinitrotoluene  
Concen: 7.627 ng  
RT: 9.875 min Scan# 1324  
Delta R.T. -0.188 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Instrument :  
BNA\_G  
ClientSampled :  
2-SIDE

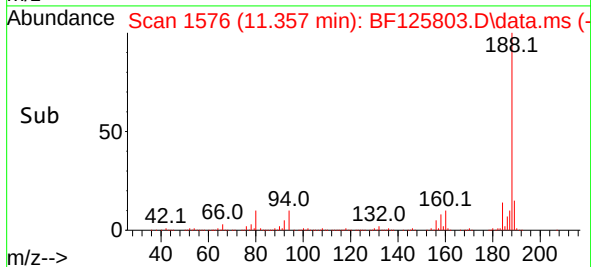
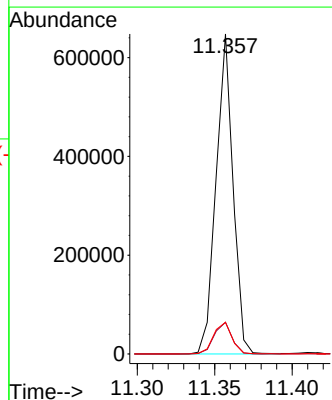
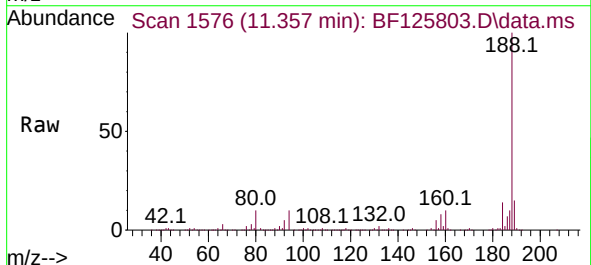


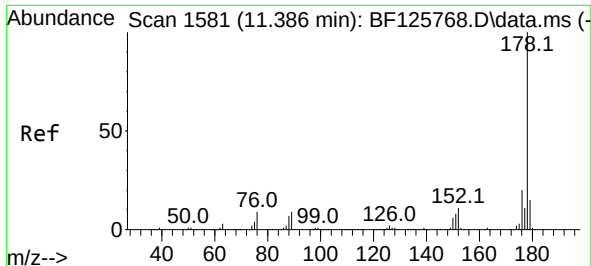
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 37586      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.1   | 40.9 61.3# |
| 89          | 0.9   | 59.7 89.5# |
| 182         | 0.0   | 0.0 0.0    |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.357 min Scan# 1576  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 493440   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 9.9   | 6.7 10.1 |
| 80          | 9.9   | 7.5 11.3 |

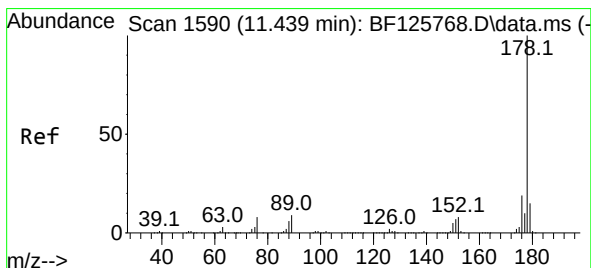
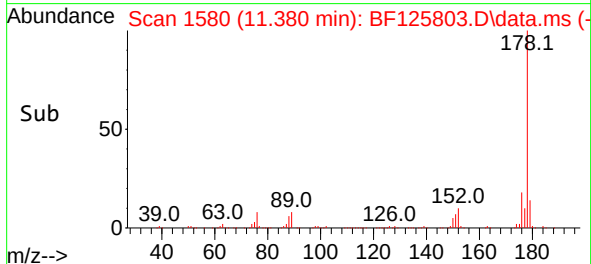
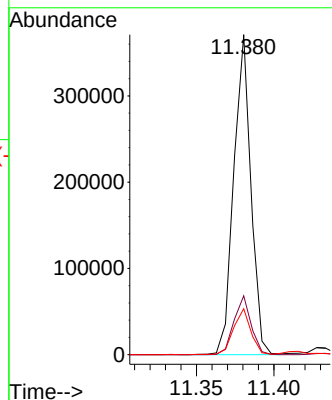
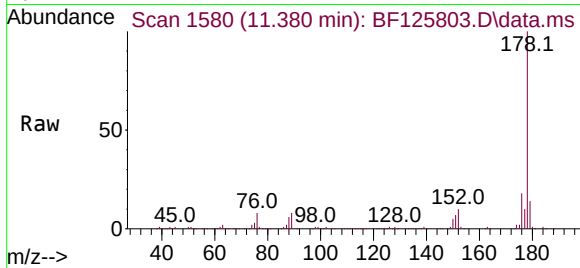




#71  
Phenanthrene  
Concen: 10.802 ng  
RT: 11.380 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

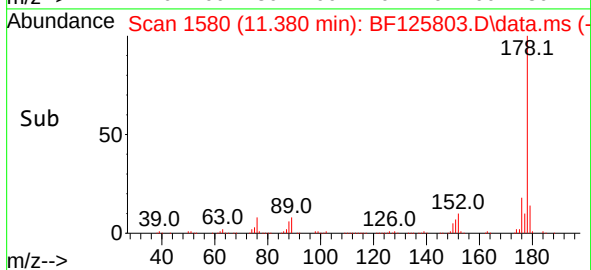
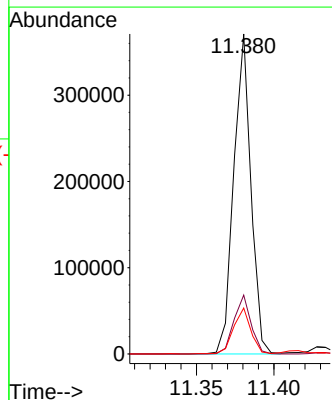
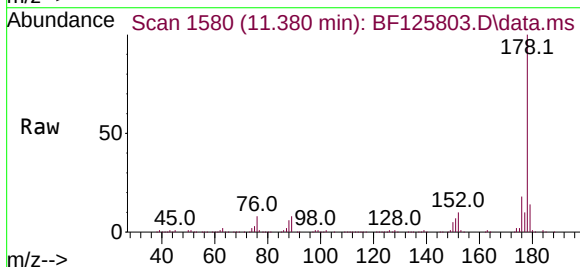
Instrument :  
BNA\_G  
ClientSampleId :  
2-SIDE

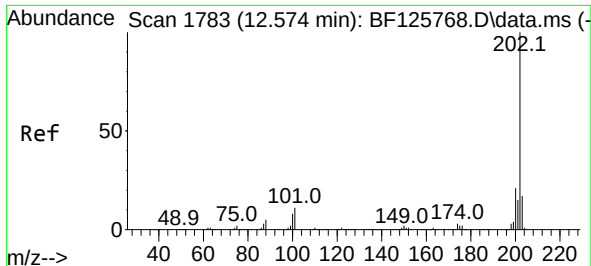
Tgt Ion:178 Resp: 285192  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.7 22.1  
179 14.3 11.5 17.3



#72  
Anthracene  
Concen: 10.815 ng  
RT: 11.380 min Scan# 1580  
Delta R.T. -0.059 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Tgt Ion:178 Resp: 285192  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.3 21.5  
179 14.3 12.2 18.4

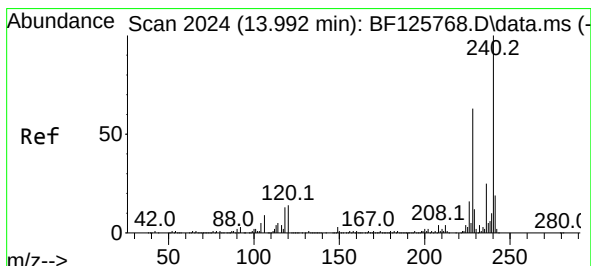
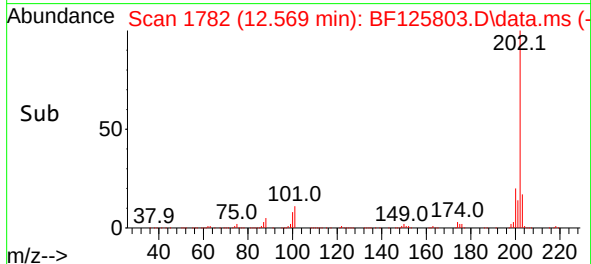
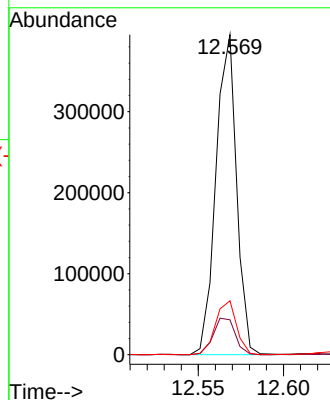
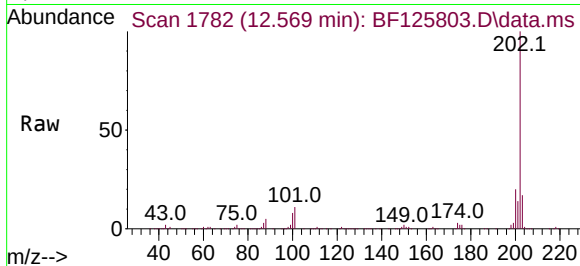




#75  
Fluoranthene  
Concen: 13.996 ng  
RT: 12.569 min Scan# 1782  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

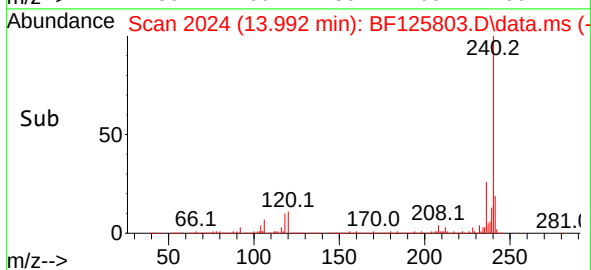
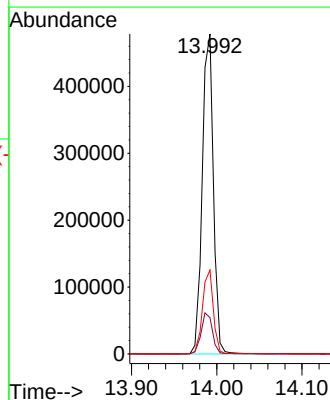
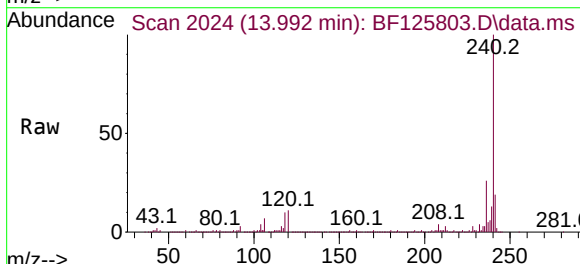
Instrument :  
BNA\_G  
ClientSampleId :  
2-SIDE

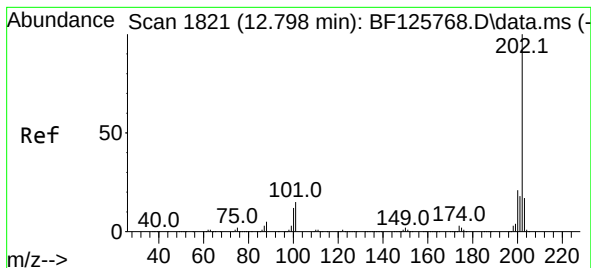
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 333429   |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 10.9  | 0.0 30.7 |
| 203         | 16.9  | 0.0 36.3 |



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.992 min Scan# 2024  
Delta R.T. 0.000 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 434715    |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 11.4  | 10.8 16.2 |
| 236         | 26.2  | 21.6 32.4 |





#78

Pyrene

Concen: 5.517 ng

RT: 12.792 min Scan# 1820

Delta R.T. -0.006 min

Lab File: BF125803.D

Acq: 12 Oct 2021 15:43

Tgt Ion:202 Resp: 243655

Ion Ratio Lower Upper

202 100

200 20.6 15.3 22.9

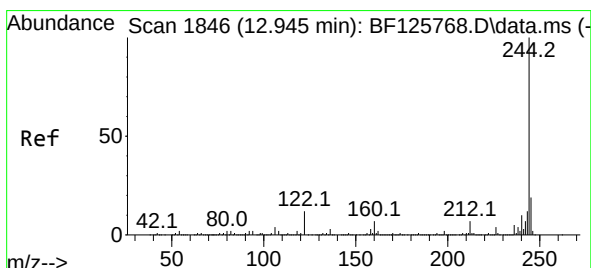
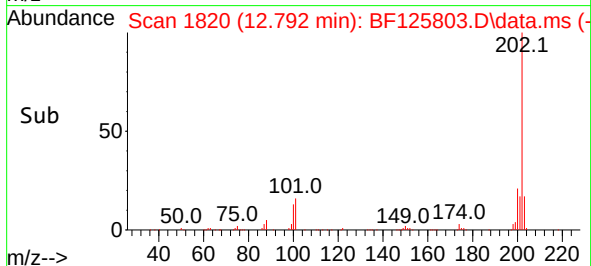
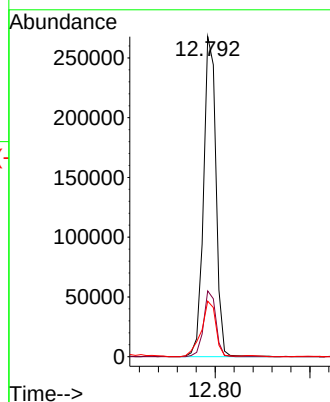
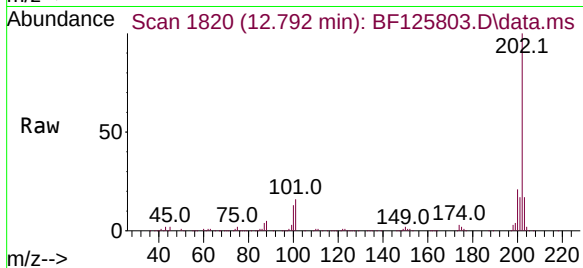
203 17.4 13.4 20.0

Instrument :

BNA\_G

ClientSampleId :

2-SIDE



#79

Terphenyl-d14

Concen: 46.624 ng

RT: 12.945 min Scan# 1846

Delta R.T. 0.000 min

Lab File: BF125803.D

Acq: 12 Oct 2021 15:43

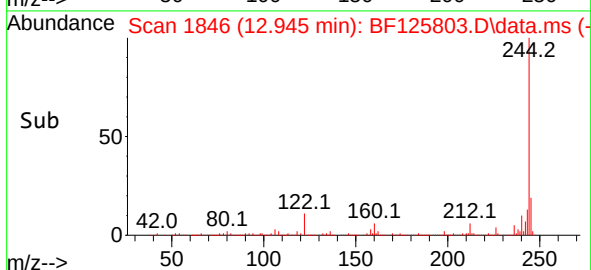
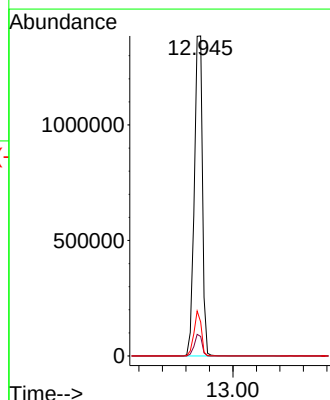
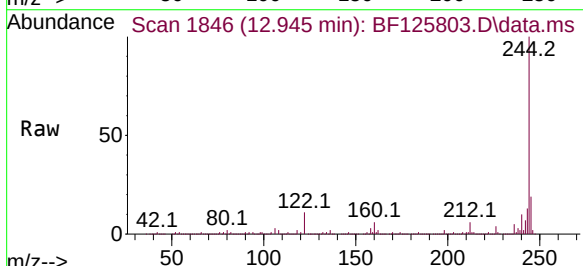
Tgt Ion:244 Resp: 1330577

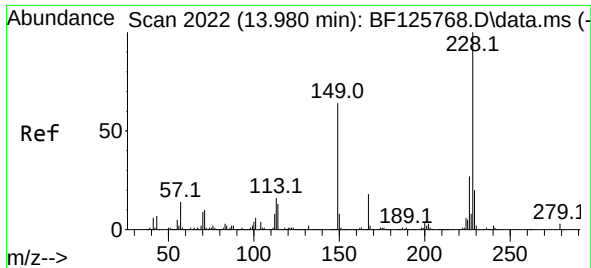
Ion Ratio Lower Upper

244 100

212 6.1 5.9 8.9

122 10.6 9.0 13.4

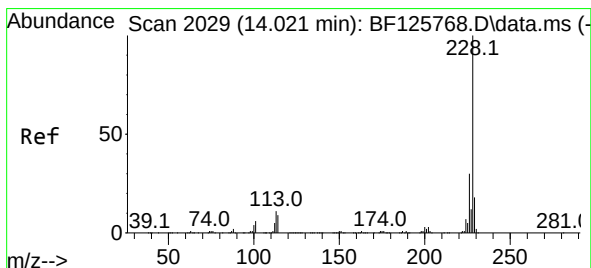
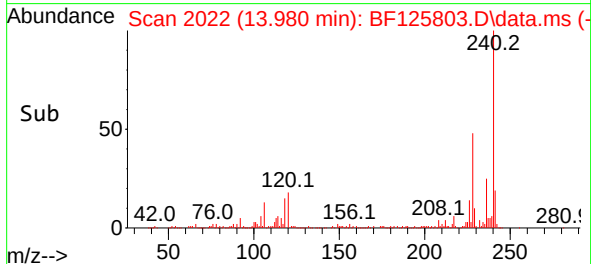
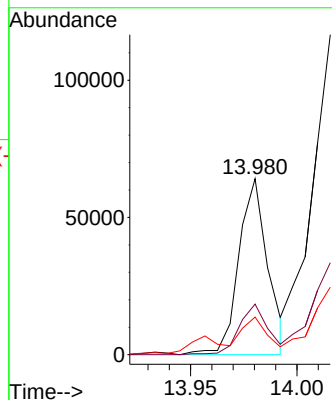
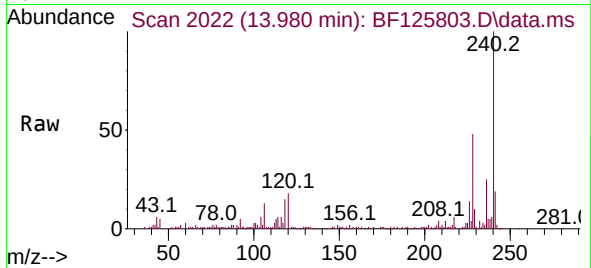




#81  
Benzo(a)anthracene  
Concen: 2.154 ng  
RT: 13.980 min Scan# 2022  
Delta R.T. 0.000 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

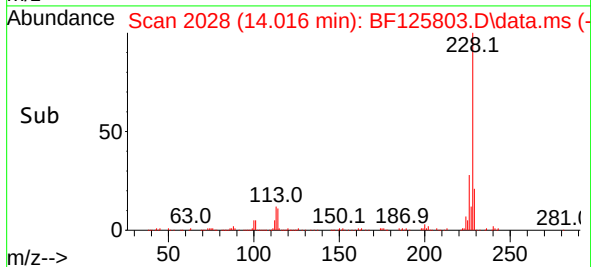
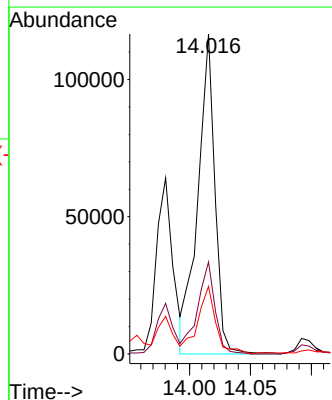
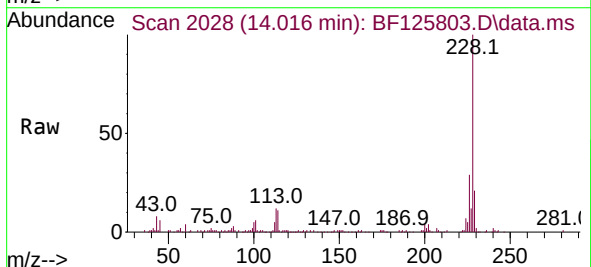
Instrument :  
BNA\_G  
ClientSampled :  
2-SIDE

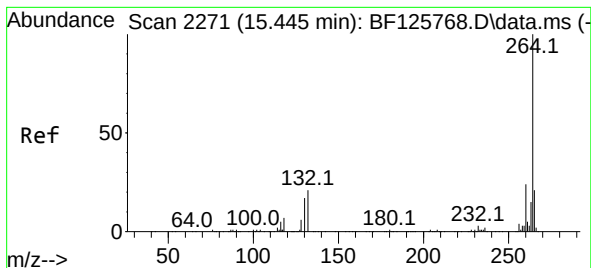
Tgt Ion:228 Resp: 60754  
Ion Ratio Lower Upper  
228 100  
226 28.7 21.6 32.4  
229 21.4 15.6 23.4



#83  
Chrysene  
Concen: 4.079 ng  
RT: 14.016 min Scan# 2028  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Tgt Ion:228 Resp: 113721  
Ion Ratio Lower Upper  
228 100  
226 28.7 22.6 34.0  
229 21.1 15.9 23.9

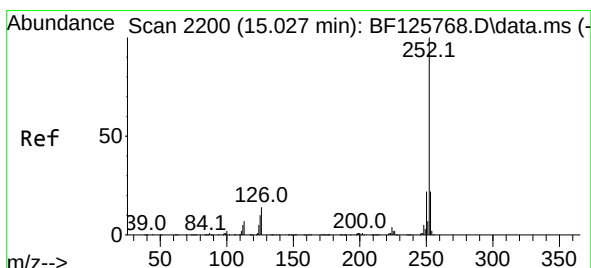
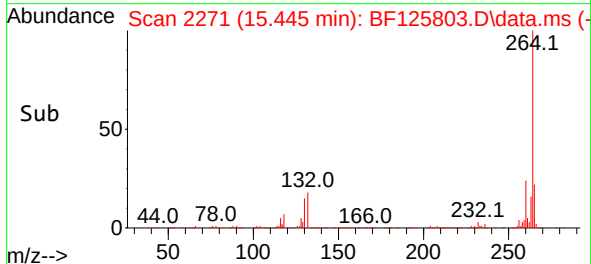
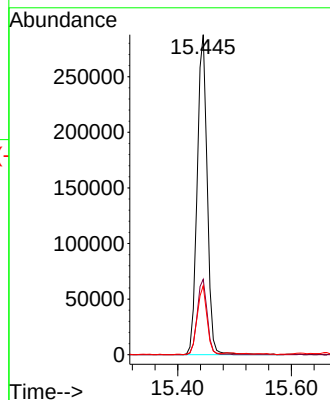
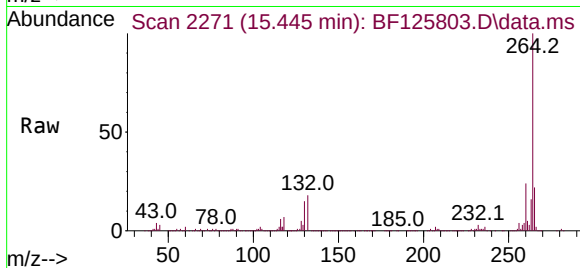




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.445 min Scan# 2271  
Delta R.T. 0.000 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

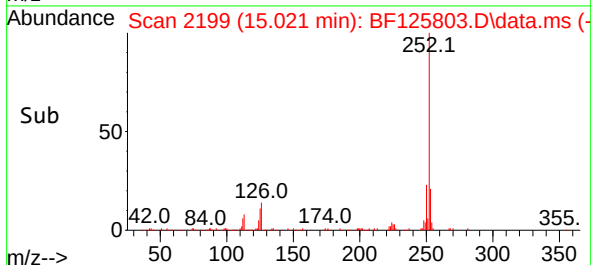
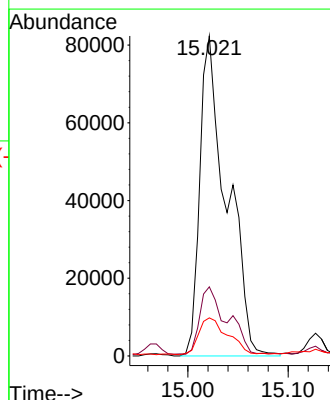
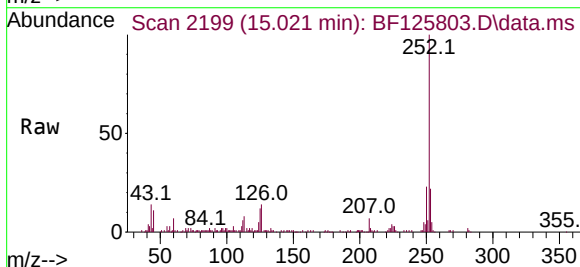
Instrument :  
BNA\_G  
ClientSampleId :  
2-SIDE

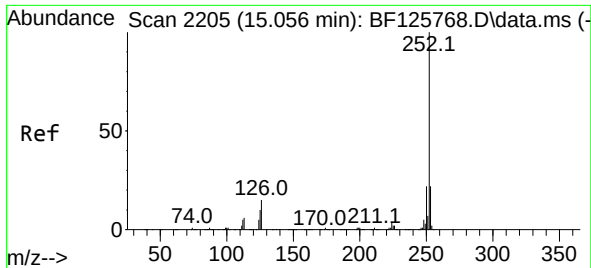
Tgt Ion:264 Resp: 355169  
Ion Ratio Lower Upper  
264 100  
260 23.6 19.6 29.4  
265 21.6 17.2 25.8



#88  
Benzo(b)fluoranthene  
Concen: 7.688 ng  
RT: 15.021 min Scan# 2199  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Tgt Ion:252 Resp: 154156  
Ion Ratio Lower Upper  
252 100  
253 21.6 16.8 25.2  
125 11.9 9.8 14.8

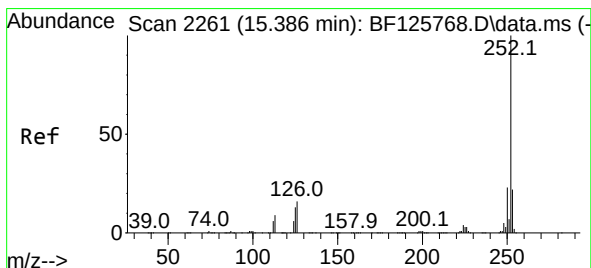
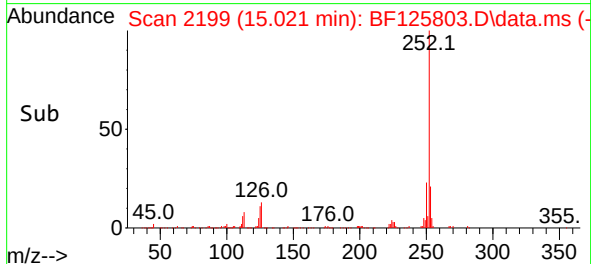
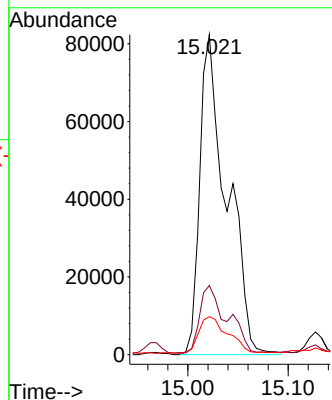
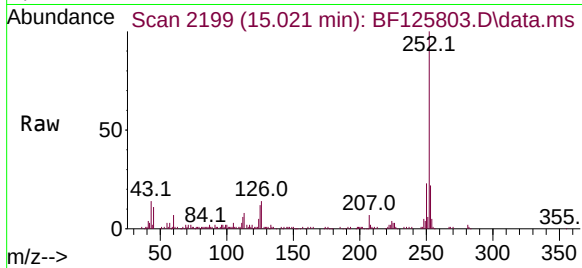




#89  
Benzo(k)fluoranthene  
Concen: 7.488 ng  
RT: 15.021 min Scan# 2199  
Delta R.T. -0.035 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Instrument :  
BNA\_G  
ClientSampled :  
2-SIDE

Tgt Ion:252 Resp: 154156  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.8 26.8  
125 11.9 7.2 10.8#



#90  
Benzo(a)pyrene  
Concen: 3.260 ng  
RT: 15.380 min Scan# 2260  
Delta R.T. -0.006 min  
Lab File: BF125803.D  
Acq: 12 Oct 2021 15:43

Tgt Ion:252 Resp: 57883  
Ion Ratio Lower Upper  
252 100  
253 21.1 18.4 27.6  
125 13.3 9.9 14.9

