

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF022323\  
 Data File : BF132531.D  
 Acq On : 23 Feb 2023 20:56  
 Operator : CG\JU  
 Sample : 01658-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 QAQC-COMP-1

Quant Time: Feb 24 00:40:38 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 23 00:59:42 2023  
 Response via : Initial Calibration

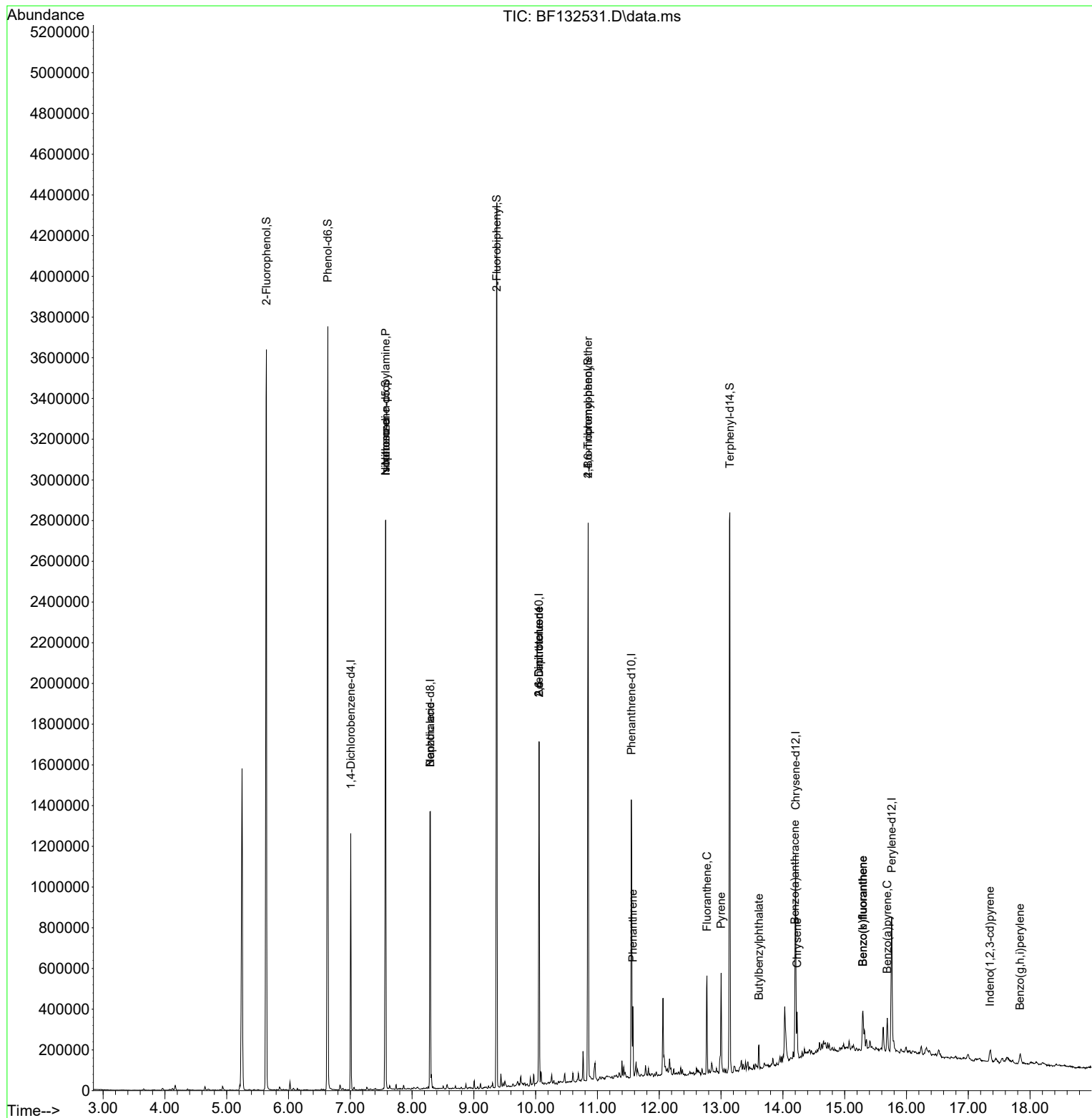
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.007  | 152  | 161210   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.295  | 136  | 600455   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 10.054 | 164  | 308083   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.548 | 188  | 483672   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.207 | 240  | 305706   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 15.760 | 264  | 319881   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.643  | 112  | 1020703  | 102.759 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.637  | 99   | 1288787  | 99.417  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.572  | 82   | 860306   | 67.976  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.848 | 330  | 288779   | 86.794  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.372  | 172  | 1327480  | 65.609  | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.142 | 244  | 1043119  | 57.691  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
| 19) n-Nitroso-di-n-propyla... | 7.572  | 70   | 118296   | 14.827  | ng    | # 76     |
| 25) Isophorone                | 7.572  | 82   | 859327   | 35.415  | ng    | # 67     |
| 32) Benzoic acid              | 8.295  | 122  | 61       | 3.844   | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 10.054 | 165  | 40754    | 7.977   | ng    | # 23     |
| 57) 2,4-Dinitrotoluene        | 10.054 | 165  | 40754    | 5.996   | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether | 10.848 | 248  | 19401    | 3.546   | ng    | # 1      |
| 71) Phenanthrene              | 11.572 | 178  | 116148   | 4.635   | ng    | 96       |
| 75) Fluoranthene              | 12.772 | 202  | 190187   | 6.943   | ng    | 96       |
| 78) Pyrene                    | 13.001 | 202  | 182977   | 6.583   | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.613 | 149  | 26665    | 2.431   | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.195 | 228  | 96135    | 4.203   | ng    | 99       |
| 83) Chrysene                  | 14.230 | 228  | 84829    | 3.966   | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.354 | 276  | 42807    | 2.042   | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.295 | 252  | 161507   | 7.534   | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.295 | 252  | 161507   | 7.698   | ng    | # 96     |
| 90) Benzo(a)pyrene            | 15.689 | 252  | 82508    | 4.112   | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.836 | 276  | 42233    | 3.729   | ng    | 93       |

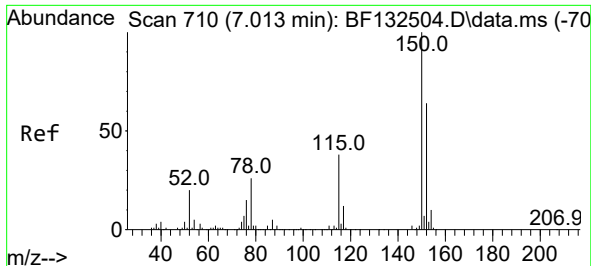
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF022323\  
Data File : BF132531.D  
Acq On : 23 Feb 2023 20:56  
Operator : CG\JU  
Sample : 01658-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

Quant Time: Feb 24 00:40:38 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 23 00:59:42 2023  
Response via : Initial Calibration

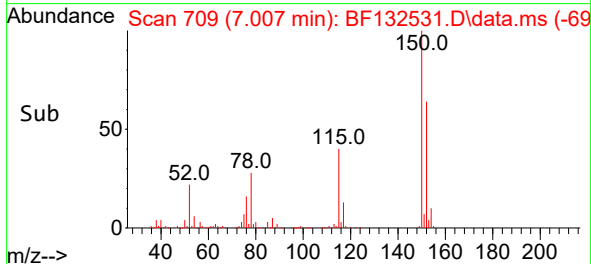
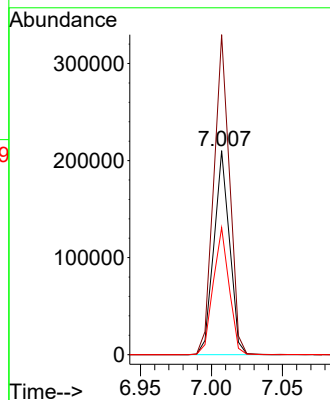
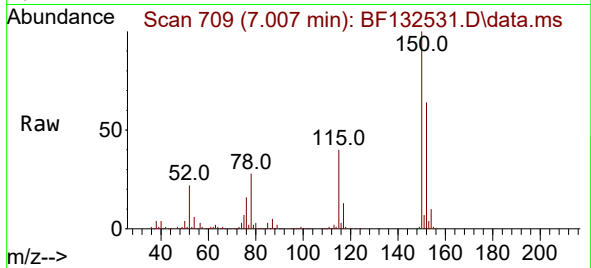




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.007 min Scan# 710  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

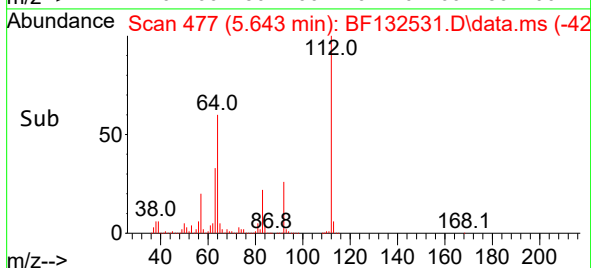
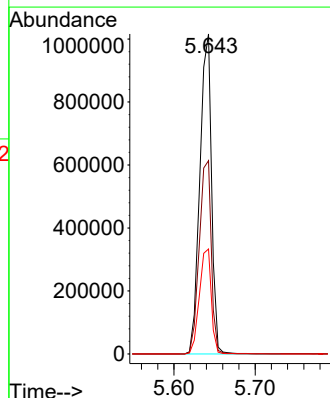
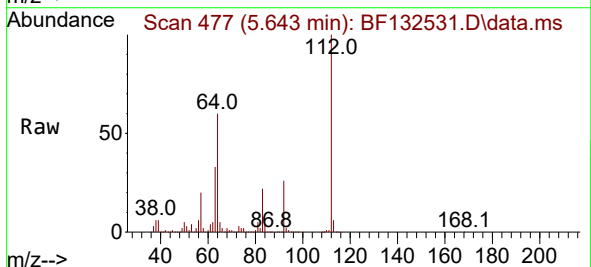
Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

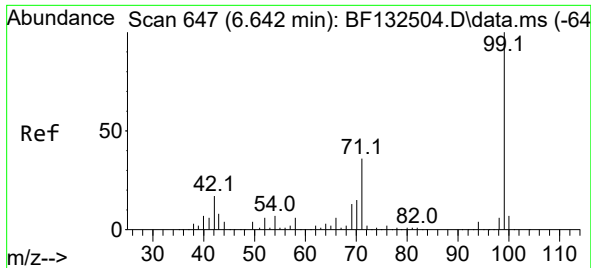
Tgt Ion:152 Resp: 161210  
Ion Ratio Lower Upper  
152 100  
150 156.8 125.4 188.2  
115 62.2 47.8 71.6



#5  
2-Fluorophenol  
Concen: 102.759 ng  
RT: 5.643 min Scan# 477  
Delta R.T. 0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:112 Resp: 1020703  
Ion Ratio Lower Upper  
112 100  
64 60.4 51.6 77.4  
63 32.8 27.4 41.2

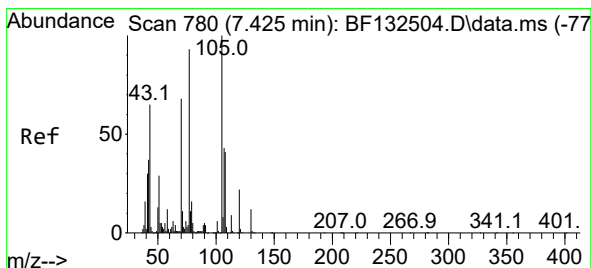
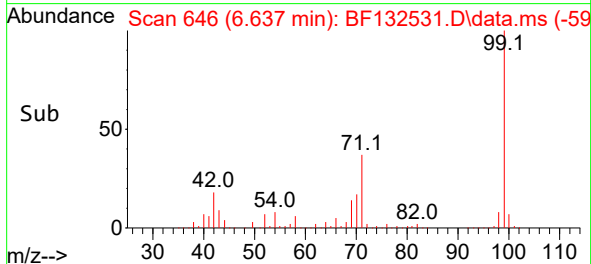
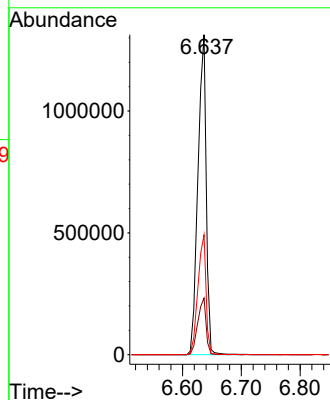
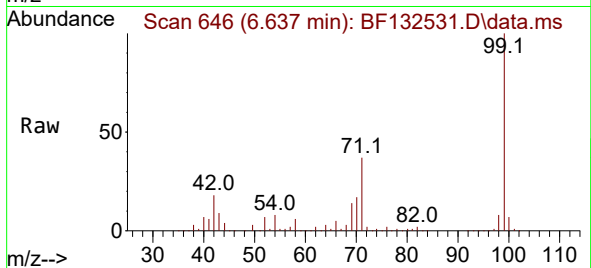




#7  
Phenol-d6  
Concen: 99.417 ng  
RT: 6.637 min Scan# 64  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

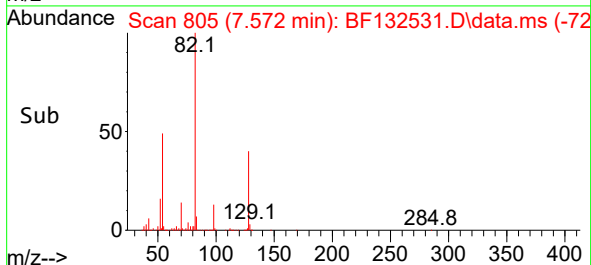
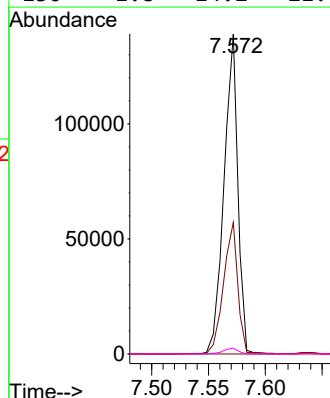
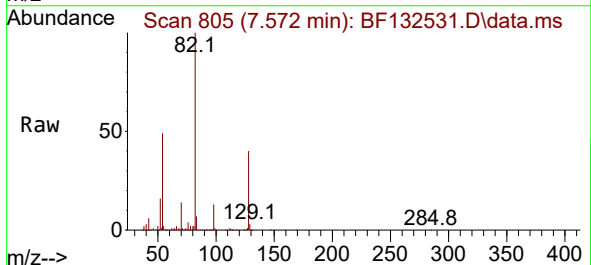
Instrument :  
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ClientSampleId :  
QAQC-COMP-1

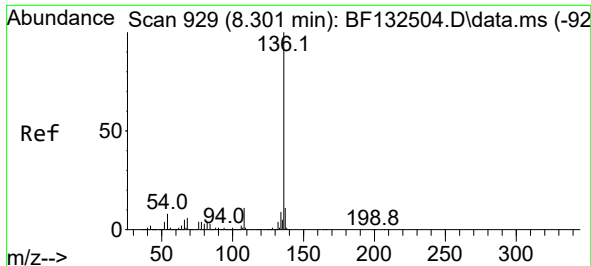
Tgt Ion: 99 Resp: 1288787  
Ion Ratio Lower Upper  
99 100  
42 17.7 13.9 20.9  
71 37.5 28.5 42.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 14.827 ng  
RT: 7.572 min Scan# 805  
Delta R.T. 0.147 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion: 70 Resp: 118296  
Ion Ratio Lower Upper  
70 100  
42 41.1 44.1 66.1#  
101 0.0 7.4 11.2#  
130 1.8 14.2 21.4#

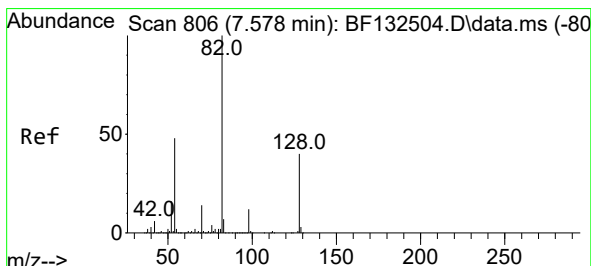
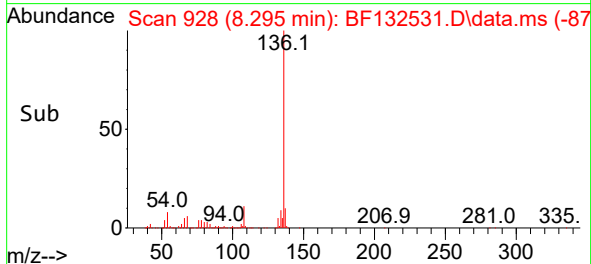
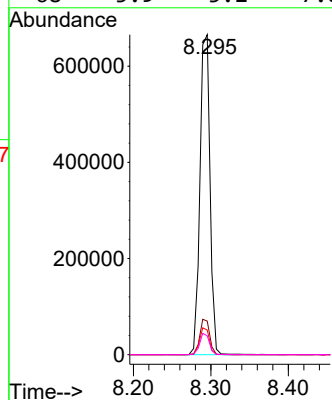
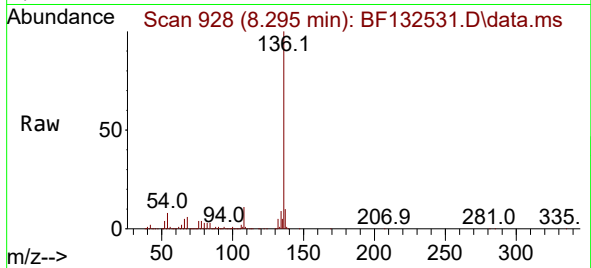




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.295 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

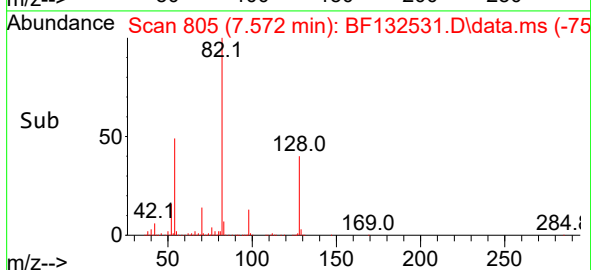
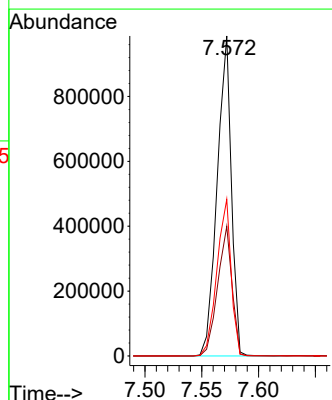
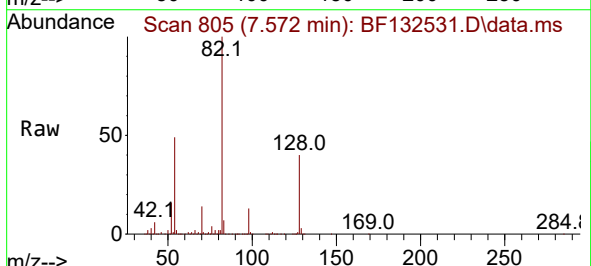
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ClientSampleId :  
QAQC-COMP-1

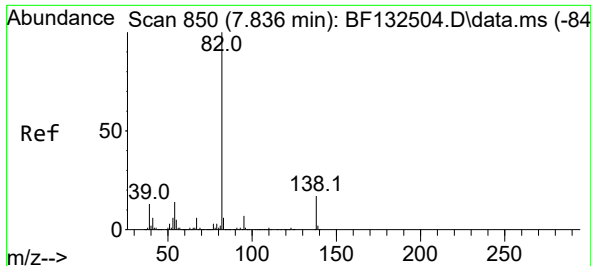
Tgt Ion:136 Resp: 600455  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.9 13.3  
54 7.7 6.2 9.4  
68 5.9 5.2 7.8



#23  
Nitrobenzene-d5  
Concen: 67.976 ng  
RT: 7.572 min Scan# 805  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion: 82 Resp: 860306  
Ion Ratio Lower Upper  
82 100  
128 40.5 32.2 48.2  
54 49.0 38.4 57.6

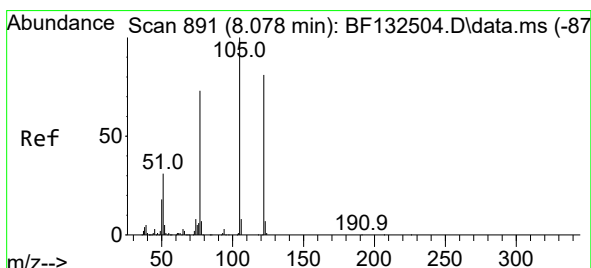
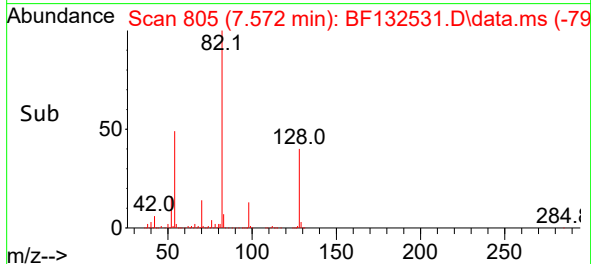
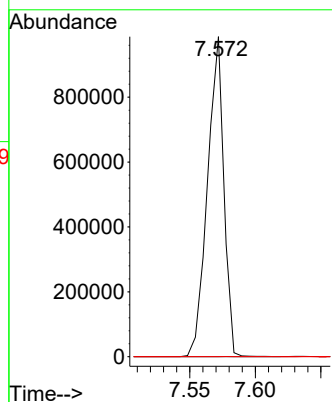
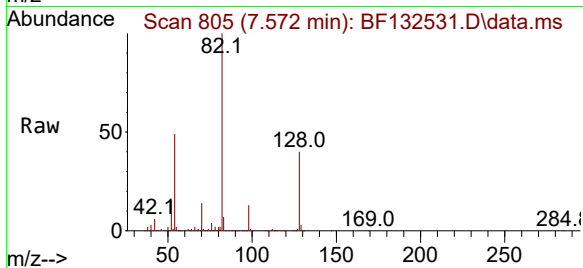




#25  
Isophorone  
Concen: 35.415 ng  
RT: 7.572 min Scan# 80  
Delta R.T. -0.265 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

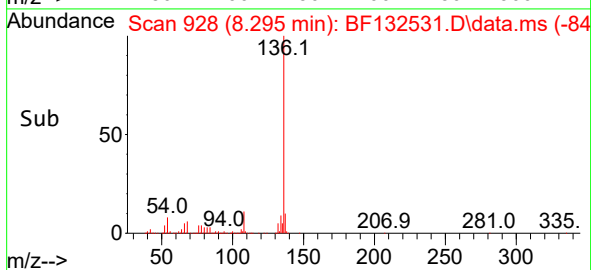
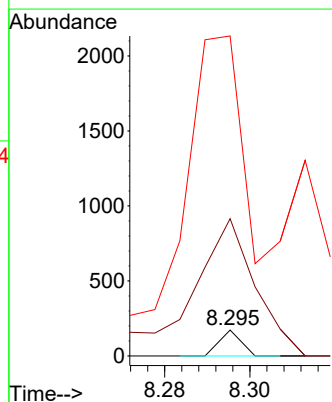
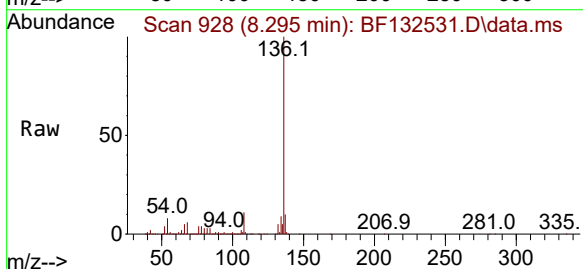
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ClientSampleId :  
QAQC-COMP-1

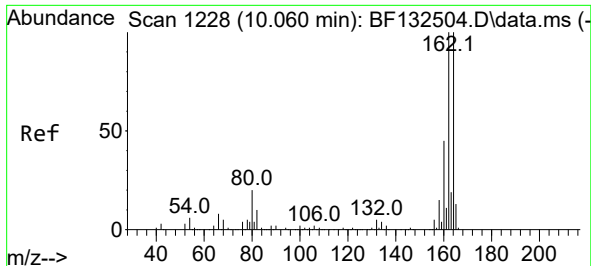
Tgt Ion: 82 Resp: 859327  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.3 19.9#



#32  
Benzoic acid  
Concen: 3.844 ng  
RT: 8.295 min Scan# 928  
Delta R.T. 0.217 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:122 Resp: 61  
Ion Ratio Lower Upper  
122 100  
105 528.9 102.6 142.6#  
77 1232.9 70.2 110.2#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.054 min Scan# 1227

Delta R.T. -0.006 min

Lab File: BF132531.D

Acq: 23 Feb 2023 20:56

Instrument :

BNA\_F

ClientSampleId :

QAQC-COMP-1

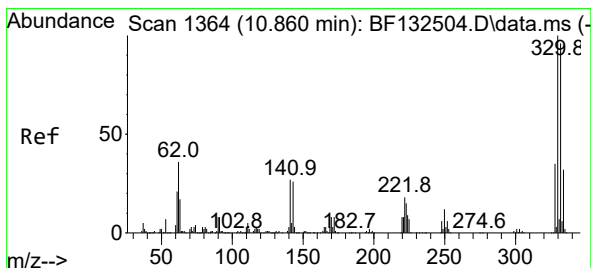
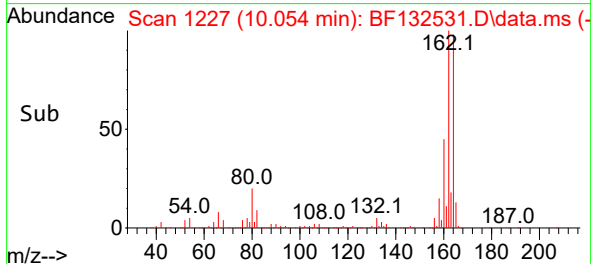
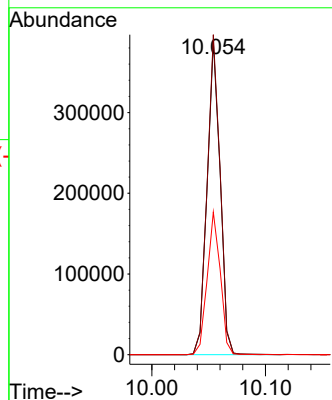
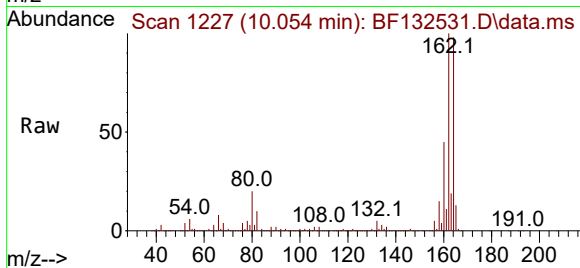
Tgt Ion:164 Resp: 308083

Ion Ratio Lower Upper

164 100

162 102.0 79.8 119.8

160 45.5 35.8 53.6



#42

2,4,6-Tribromophenol

Concen: 86.794 ng

RT: 10.848 min Scan# 1362

Delta R.T. -0.012 min

Lab File: BF132531.D

Acq: 23 Feb 2023 20:56

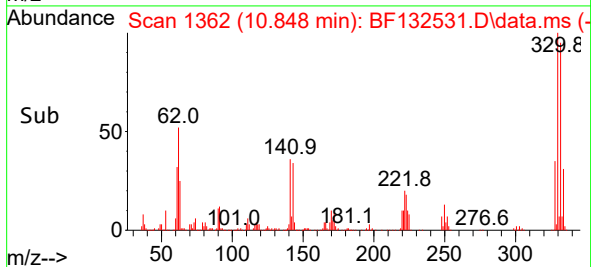
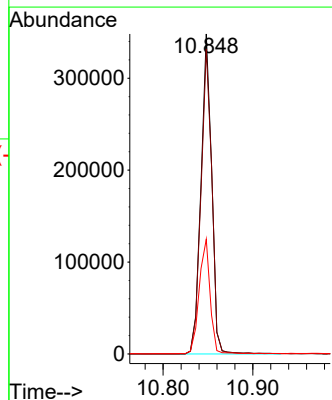
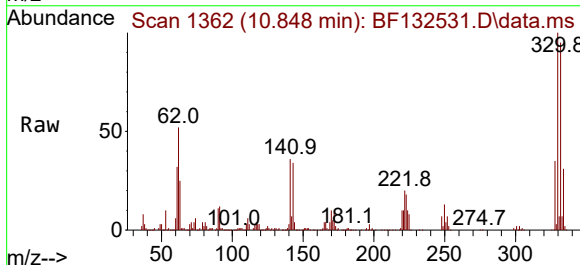
Tgt Ion:330 Resp: 288779

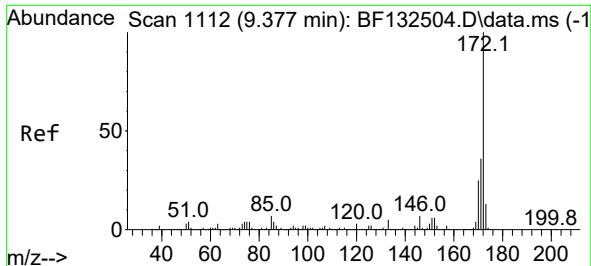
Ion Ratio Lower Upper

330 100

332 96.9 76.2 114.4

141 36.1 28.4 42.6

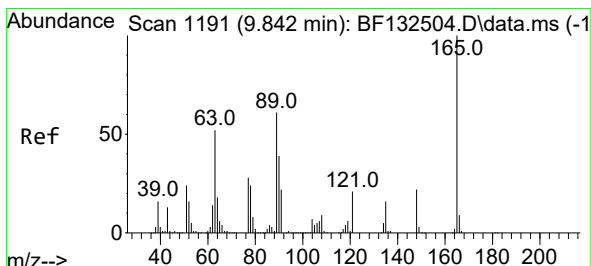
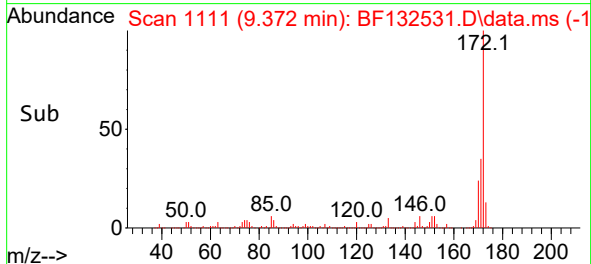
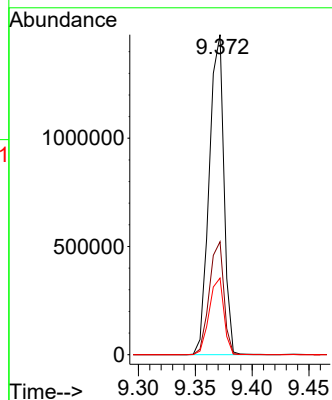
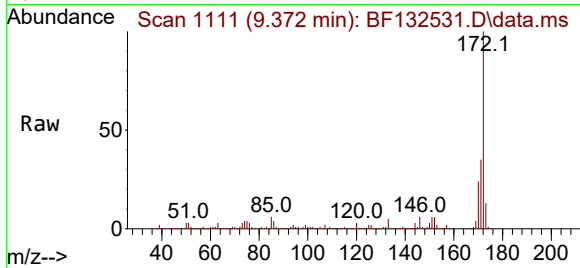




#45  
2-Fluorobiphenyl  
Concen: 65.609 ng  
RT: 9.372 min Scan# 1112  
Delta R.T. -0.005 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

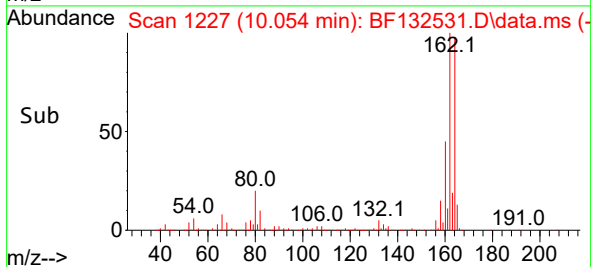
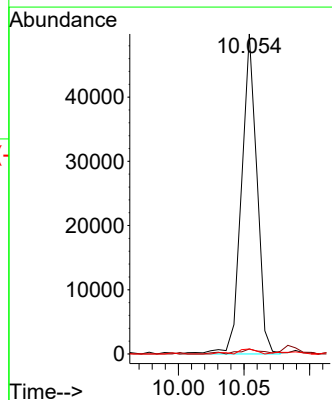
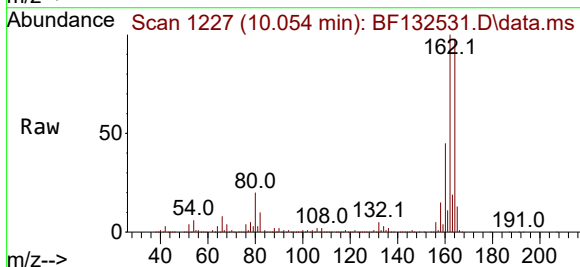
Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

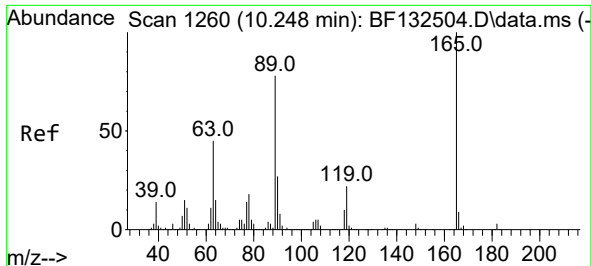
Tgt Ion:172 Resp: 1327480  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.8 43.2  
170 24.0 19.7 29.5



#51  
2,6-Dinitrotoluene  
Concen: 7.977 ng  
RT: 10.054 min Scan# 1227  
Delta R.T. 0.212 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:165 Resp: 40754  
Ion Ratio Lower Upper  
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63 1.5 47.3 70.9#  
89 1.6 48.9 73.3#

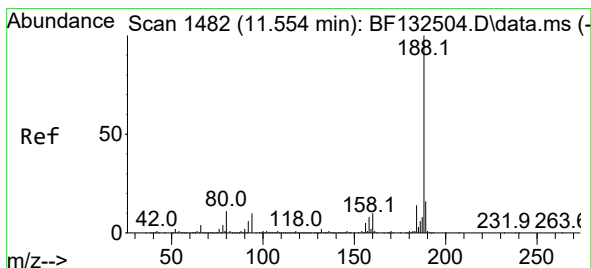
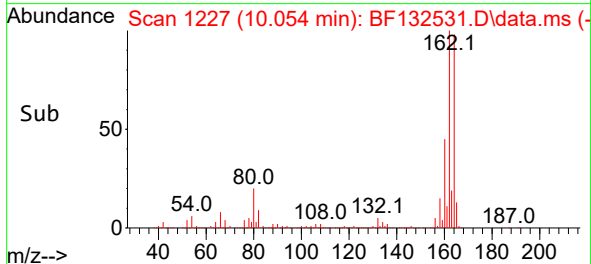
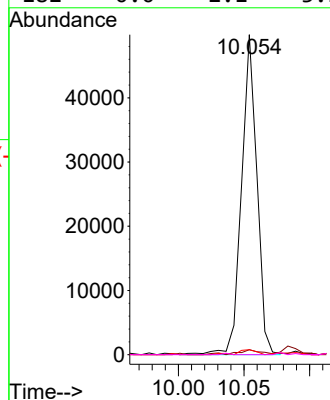
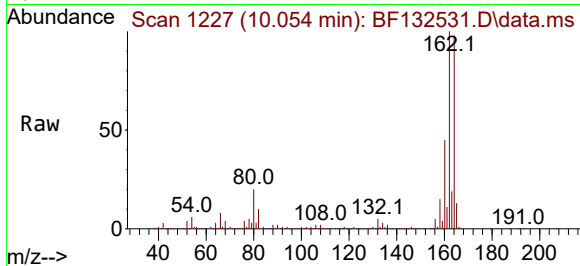




#57  
2,4-Dinitrotoluene  
Concen: 5.996 ng  
RT: 10.054 min Scan# 1227  
Delta R.T. -0.194 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

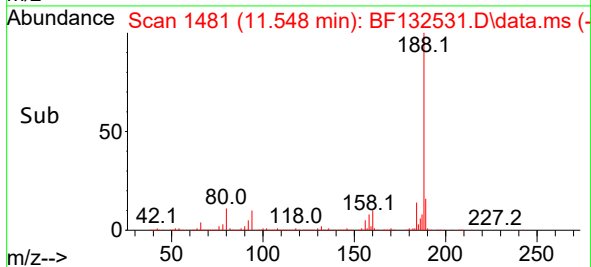
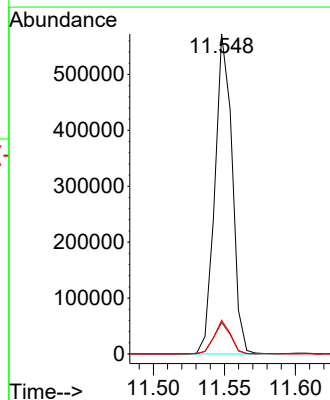
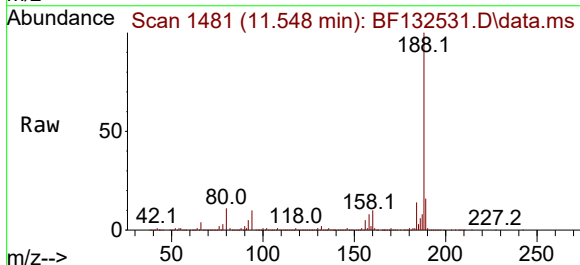
Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

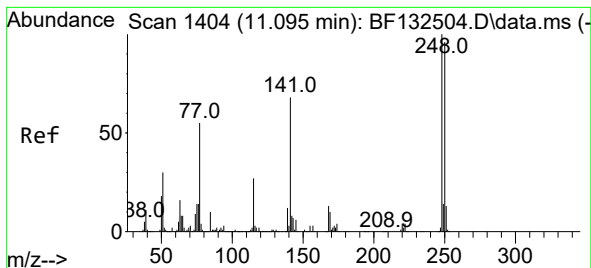
Tgt Ion:165 Resp: 40754  
Ion Ratio Lower Upper  
165 100  
63 1.5 36.5 54.7#  
89 1.6 62.4 93.6#  
182 0.0 2.1 3.1#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.548 min Scan# 1481  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:188 Resp: 483672  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.3 12.5  
80 10.6 8.7 13.1

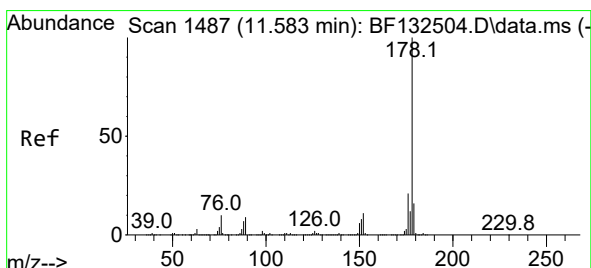
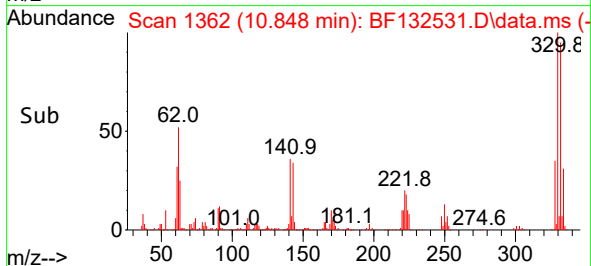
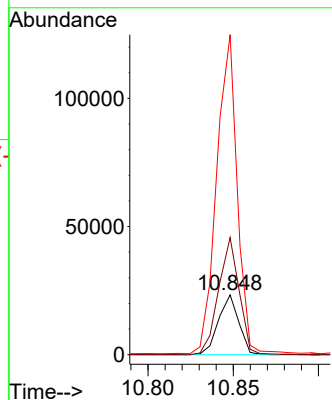
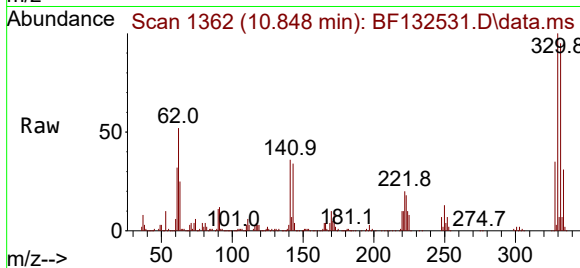




#67  
4-Bromophenyl-phenylether  
Concen: 3.546 ng  
RT: 10.848 min Scan# 11  
Delta R.T. -0.247 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

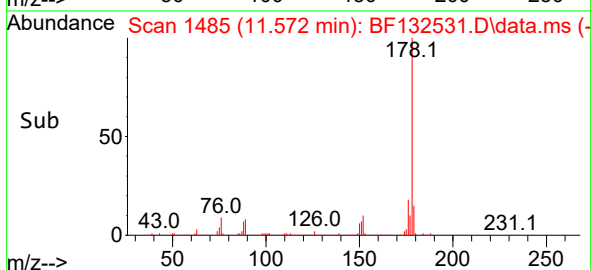
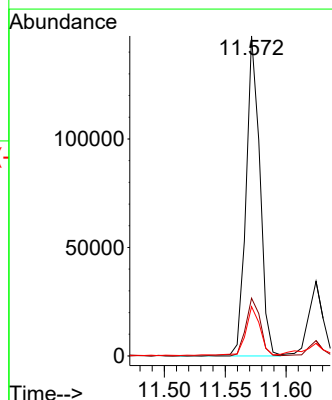
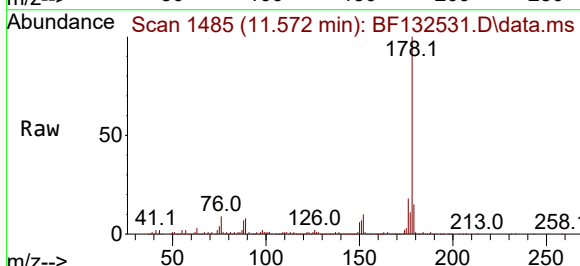
Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

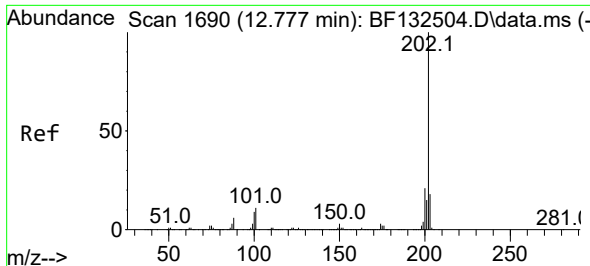
Tgt Ion:248 Resp: 19401  
Ion Ratio Lower Upper  
248 100  
250 195.7 77.0 115.4#  
141 534.7 54.2 81.2#



#71  
Phenanthrene  
Concen: 4.635 ng  
RT: 11.572 min Scan# 1485  
Delta R.T. -0.012 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:178 Resp: 116148  
Ion Ratio Lower Upper  
178 100  
176 18.1 16.5 24.7  
179 15.4 13.0 19.6

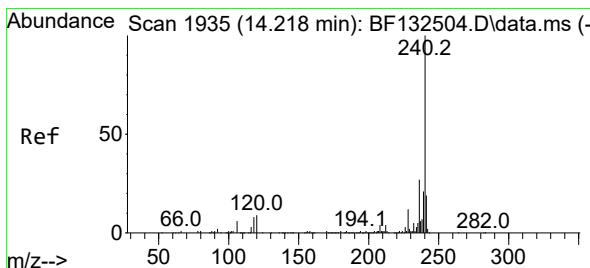
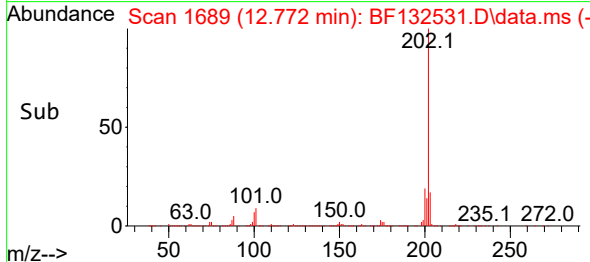
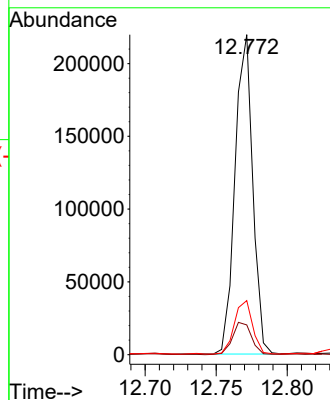
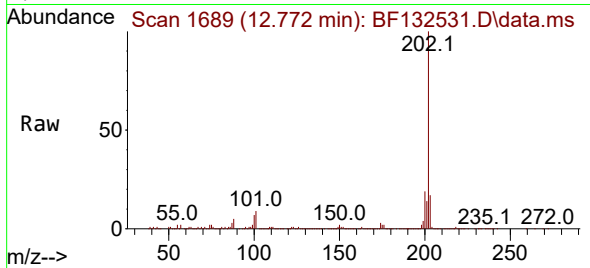




#75  
Fluoranthene  
Concen: 6.943 ng  
RT: 12.772 min Scan# 1689  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

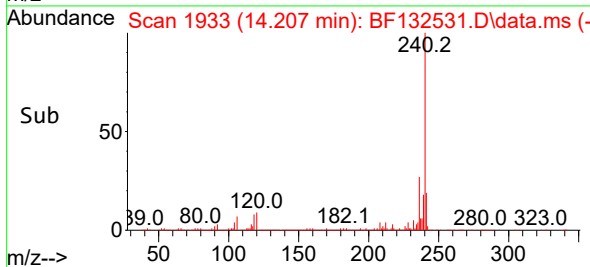
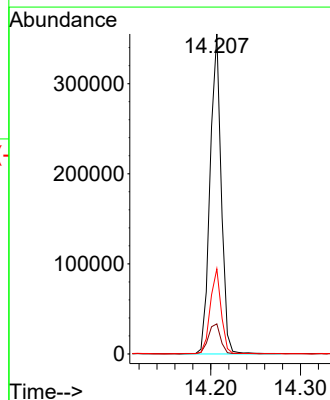
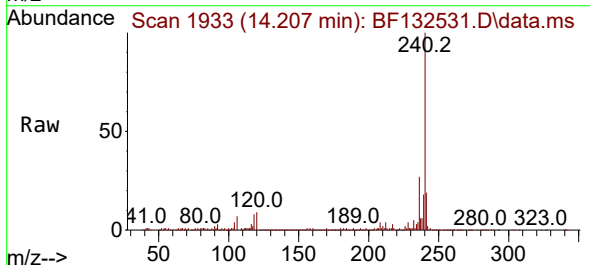
Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

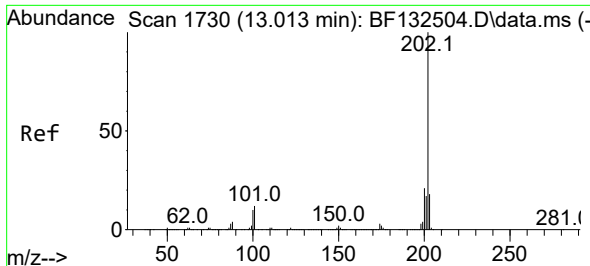
Tgt Ion:202 Resp: 190187  
Ion Ratio Lower Upper  
202 100  
101 9.3 0.0 31.4  
203 16.9 0.0 38.0



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.207 min Scan# 1933  
Delta R.T. -0.012 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:240 Resp: 305706  
Ion Ratio Lower Upper  
240 100  
120 9.4 7.2 10.8  
236 26.6 21.8 32.6

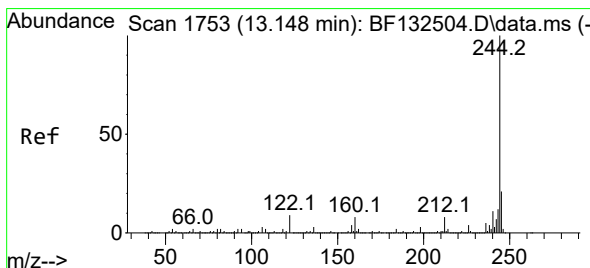
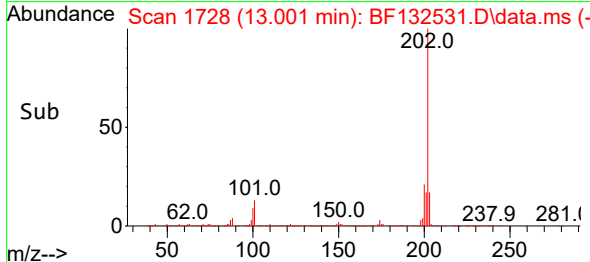
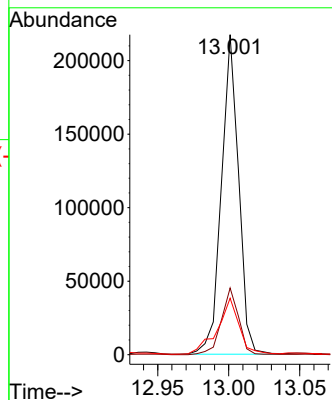
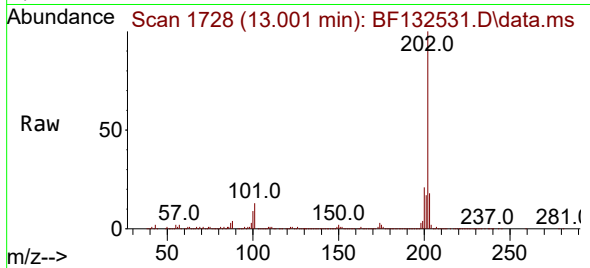




#78  
Pyrene  
Concen: 6.583 ng  
RT: 13.001 min Scan# 1728  
Delta R.T. -0.012 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

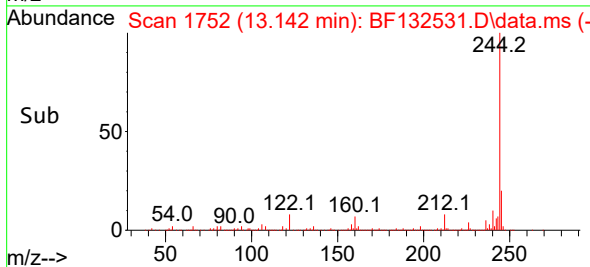
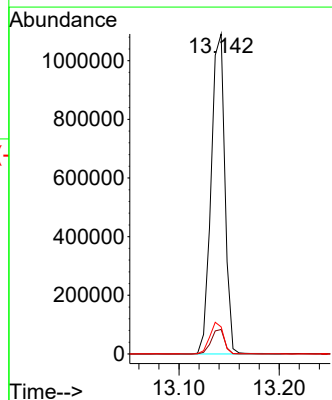
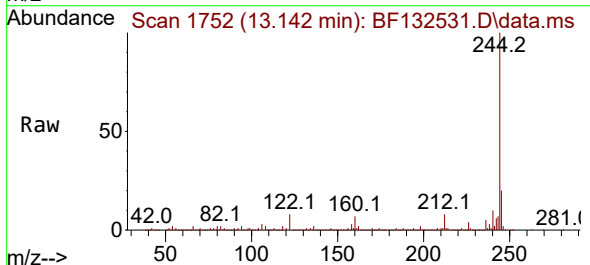
Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

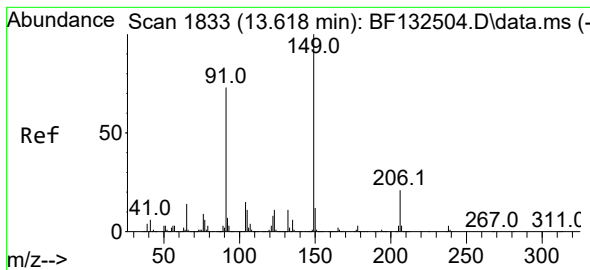
Tgt Ion:202 Resp: 182977  
Ion Ratio Lower Upper  
202 100  
200 20.8 17.1 25.7  
203 17.6 14.6 21.8



#79  
Terphenyl-d14  
Concen: 57.691 ng  
RT: 13.142 min Scan# 1752  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:244 Resp: 1043119  
Ion Ratio Lower Upper  
244 100  
212 7.7 6.5 9.7  
122 8.5 7.5 11.3

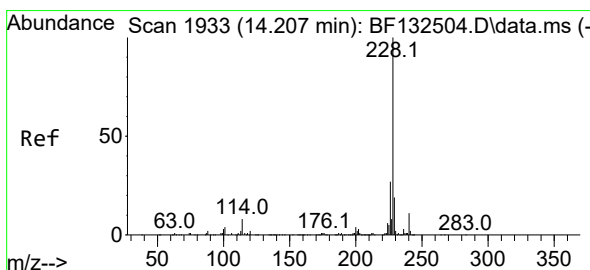
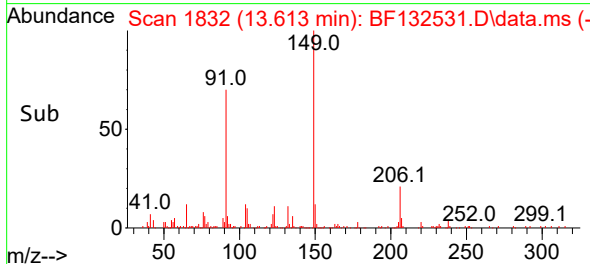
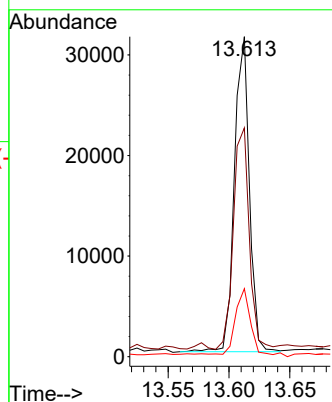
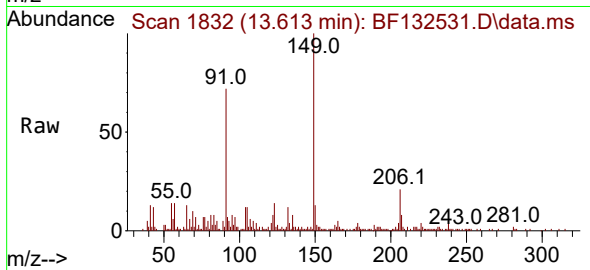




#80  
 Butylbenzylphthalate  
 Concen: 2.431 ng  
 RT: 13.613 min Scan# 1832  
 Delta R.T. -0.006 min  
 Lab File: BF132531.D  
 Acq: 23 Feb 2023 20:56

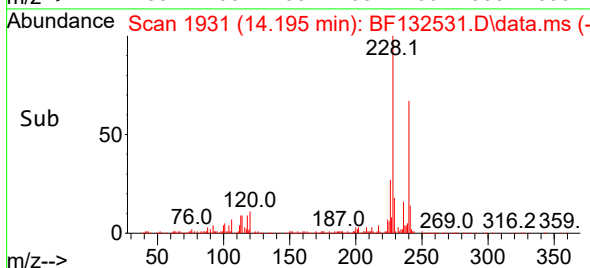
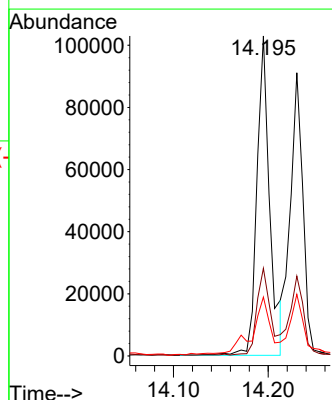
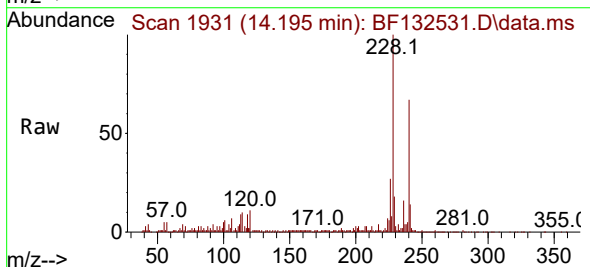
Instrument :  
 BNA\_F  
 ClientSampleId :  
 QAQC-COMP-1

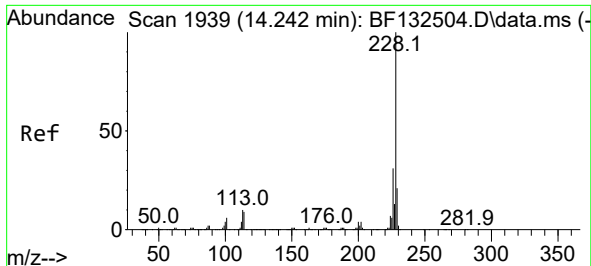
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 26665 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 91        | 71.5  | 58.4  | 87.6  |
| 206       | 21.2  | 16.8  | 25.2  |



#81  
 Benzo(a)anthracene  
 Concen: 4.203 ng  
 RT: 14.195 min Scan# 1931  
 Delta R.T. -0.012 min  
 Lab File: BF132531.D  
 Acq: 23 Feb 2023 20:56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 96135 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.4  | 21.7  | 32.5  |
| 229       | 18.4  | 15.4  | 23.2  |

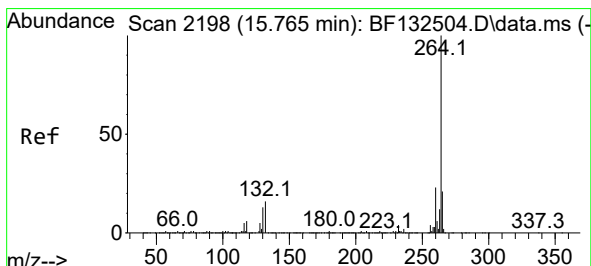
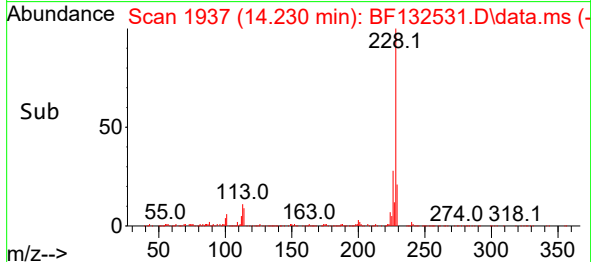
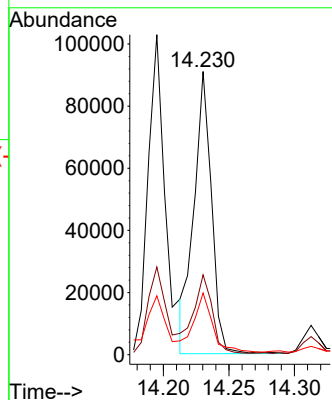
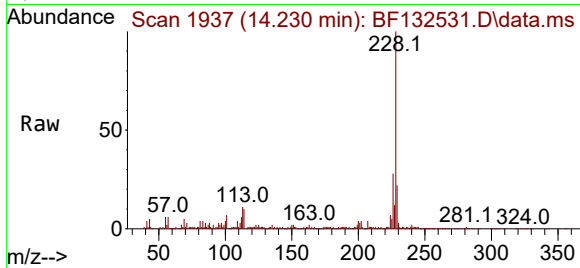




#83  
Chrysene  
Concen: 3.966 ng  
RT: 14.230 min Scan# 1937  
Delta R.T. -0.012 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

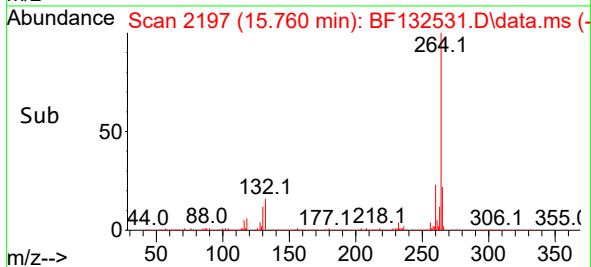
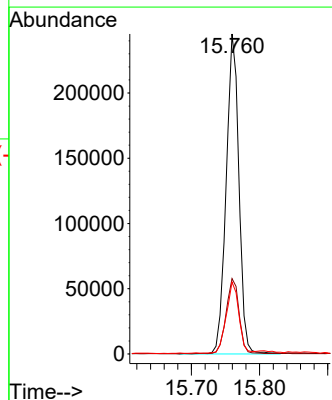
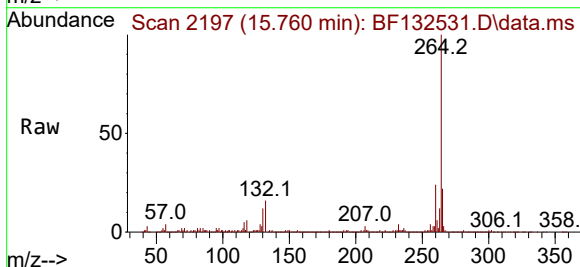
Instrument :  
BNA\_F  
ClientSampleId :  
QAQC-COMP-1

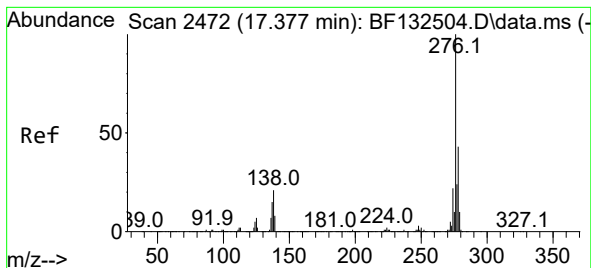
Tgt Ion:228 Resp: 84829  
Ion Ratio Lower Upper  
228 100  
226 28.2 25.0 37.6  
229 21.8 16.4 24.6



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.760 min Scan# 2197  
Delta R.T. -0.006 min  
Lab File: BF132531.D  
Acq: 23 Feb 2023 20:56

Tgt Ion:264 Resp: 319881  
Ion Ratio Lower Upper  
264 100  
260 23.5 18.8 28.2  
265 22.5 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.042 ng

RT: 17.354 min Scan# 2472

Delta R.T. -0.023 min

Lab File: BF132531.D

Acq: 23 Feb 2023 20:56

Instrument :

BNA\_F

ClientSampleId :

QAQC-COMP-1

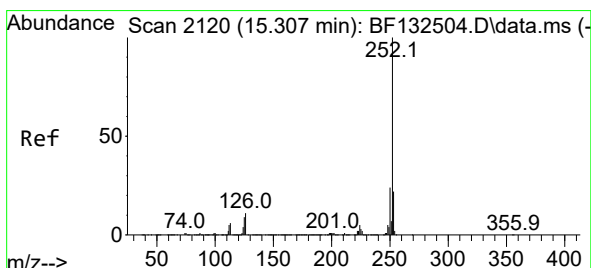
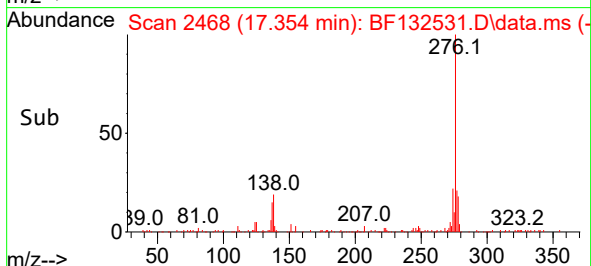
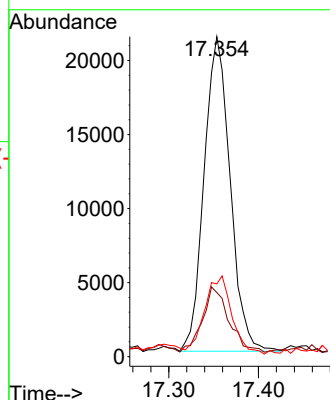
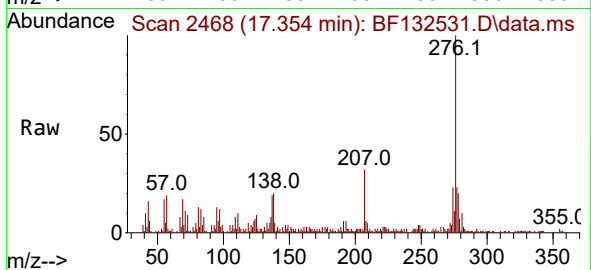
Tgt Ion:276 Resp: 42807

Ion Ratio Lower Upper

276 100

138 20.8 19.0 28.4

277 25.9 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 7.534 ng

RT: 15.295 min Scan# 2118

Delta R.T. -0.012 min

Lab File: BF132531.D

Acq: 23 Feb 2023 20:56

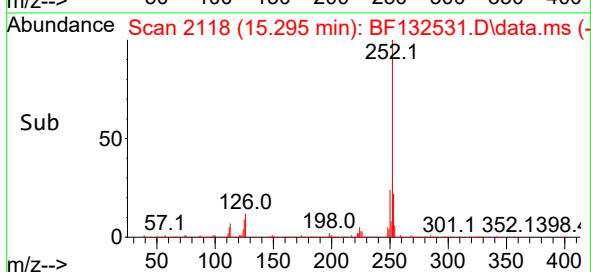
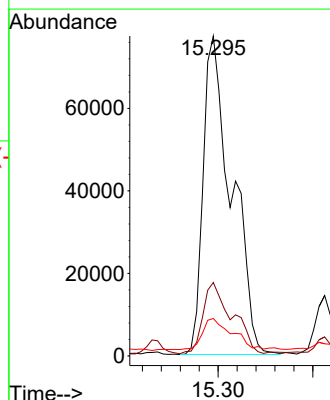
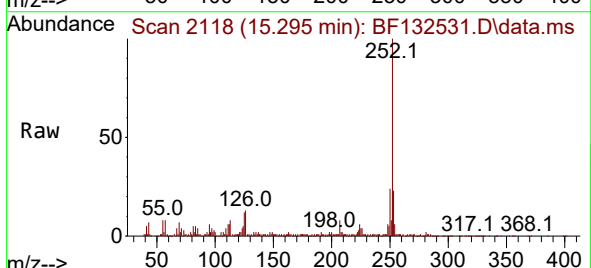
Tgt Ion:252 Resp: 161507

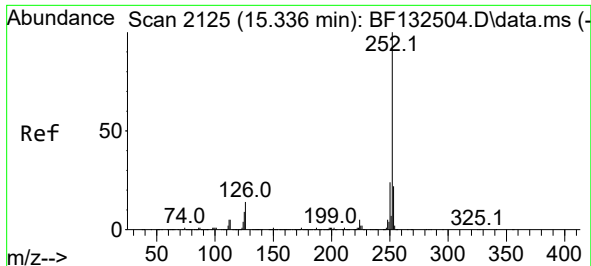
Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

125 11.7 7.0 10.6#





#89

Benzo(k)fluoranthene

Concen: 7.698 ng

RT: 15.295 min Scan# 2118

Delta R.T. -0.041 min

Lab File: BF132531.D

Acq: 23 Feb 2023 20:56

Instrument :

BNA\_F

ClientSampleId :

QAQC-COMP-1

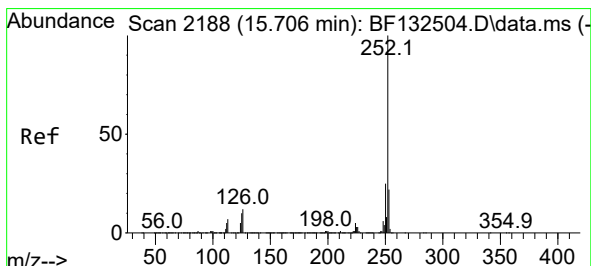
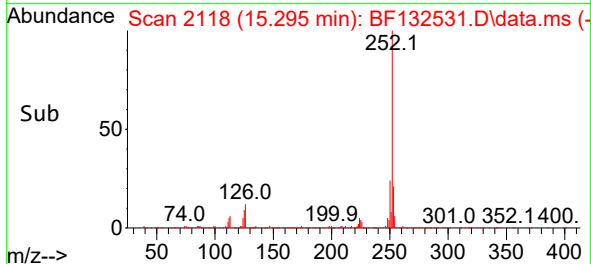
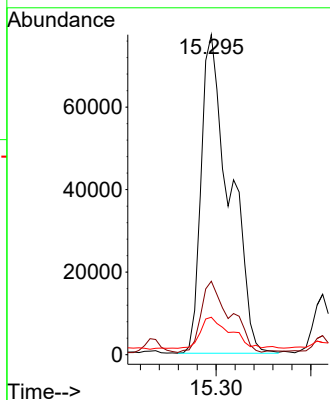
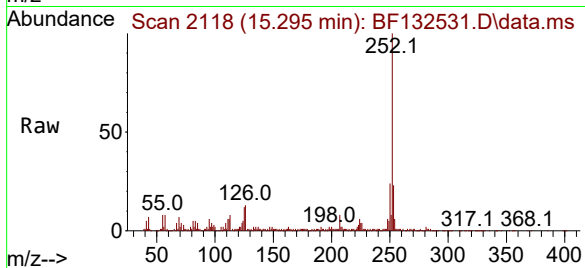
Tgt Ion:252 Resp: 161507

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 11.7 7.2 10.8#



#90

Benzo(a)pyrene

Concen: 4.112 ng

RT: 15.689 min Scan# 2185

Delta R.T. -0.018 min

Lab File: BF132531.D

Acq: 23 Feb 2023 20:56

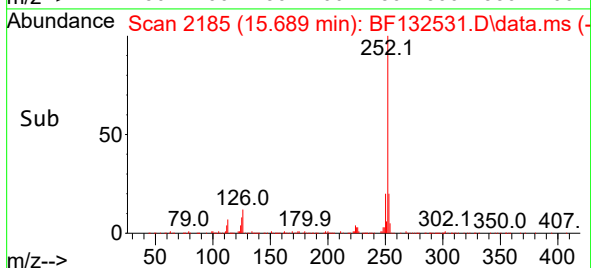
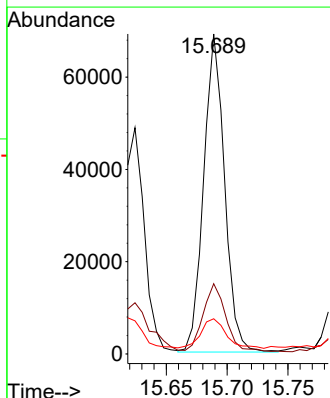
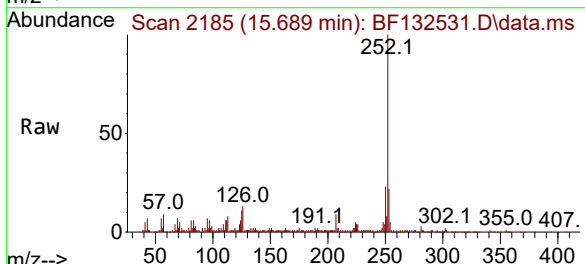
Tgt Ion:252 Resp: 82508

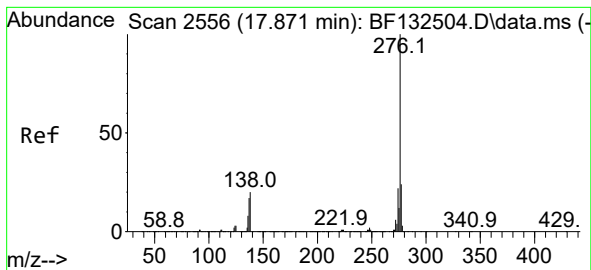
Ion Ratio Lower Upper

252 100

253 22.0 17.2 25.8

125 11.0 8.0 12.0





#92

Benzo(g,h,i)perylene

Concen: 3.729 ng

RT: 17.836 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF132531.D

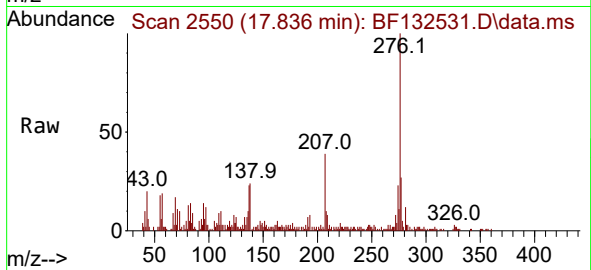
Acq: 23 Feb 2023 20:56

Instrument :

BNA\_F

ClientSampleId :

QAQC-COMP-1



Tgt Ion:276 Resp: 42233

Ion Ratio Lower Upper

276 100

277 27.2 18.9 28.3

138 23.8 16.2 24.4

