

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\  
 Data File : BF121146.D  
 Acq On : 31 Jul 2020 00:25  
 Operator : JU/CG  
 Sample : L3449-01 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-059-A

Quant Time: Jul 31 00:51:10 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 29 14:55:43 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 142979   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 543605   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.84  | 164  | 266420   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 451351   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.97 | 240  | 344619   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.43 | 264  | 302102   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.41  | 112  | 179208   | 20.55 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 233141   | 20.69 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 127308   | 13.55 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 45643    | 15.65 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 284824   | 15.96 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.91 | 244  | 240038   | 15.14 | ng    | 0.00     |

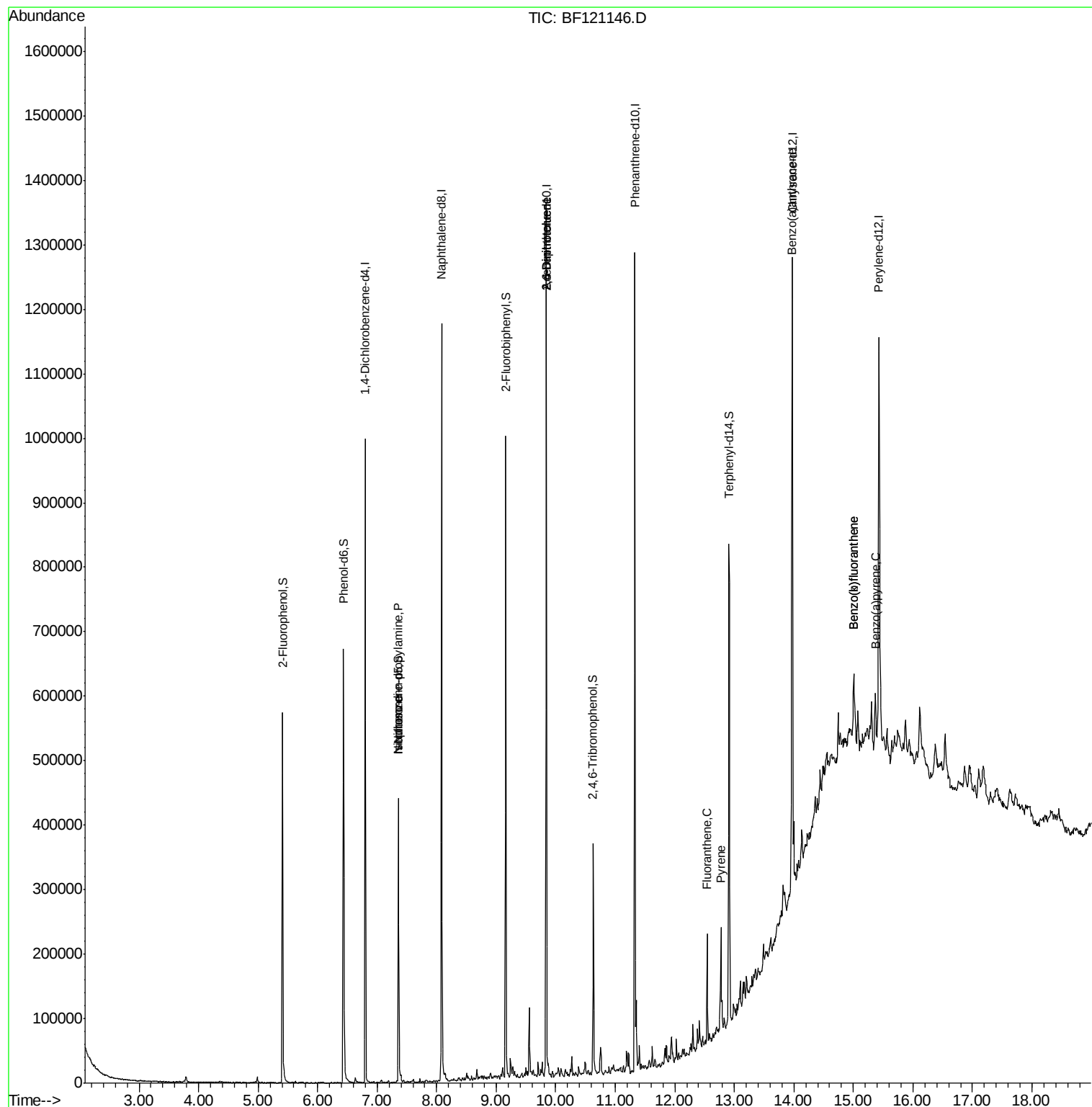
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.43  | 77   | 379      | Below Cal |       | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 16317    | 2.547     | ng    | # 79   |
| 25) Isophorone                 | 7.36  | 82   | 124548   | 6.643     | ng    | # 62   |
| 51) 2,6-Dinitrotoluene         | 9.84  | 165  | 34464    | 8.346     | ng    | # 27   |
| 57) 2,4-Dinitrotoluene         | 9.84  | 165  | 34464    | 6.355     | ng    | # 29   |
| 75) Fluoranthene               | 12.55 | 202  | 71235    | 2.769     | ng    | 100    |
| 78) Pyrene                     | 12.77 | 202  | 70158    | 2.879     | ng    | 99     |
| 81) Benzo(a)anthracene         | 13.96 | 228  | 42671    | 2.045     | ng    | 94     |
| 88) Benzo(b)fluoranthene       | 15.00 | 252  | 70981    | 3.887     | ng    | # 87   |
| 89) Benzo(k)fluoranthene       | 15.00 | 252  | 70981    | 4.262     | ng    | # 88   |
| 90) Benzo(a)pyrene             | 15.37 | 252  | 37118    | 2.228     | ng    | # 83   |

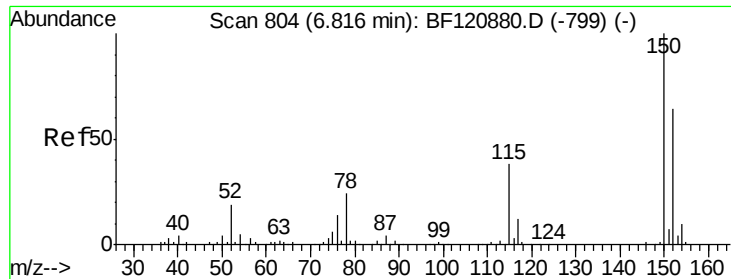
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L3449-01 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
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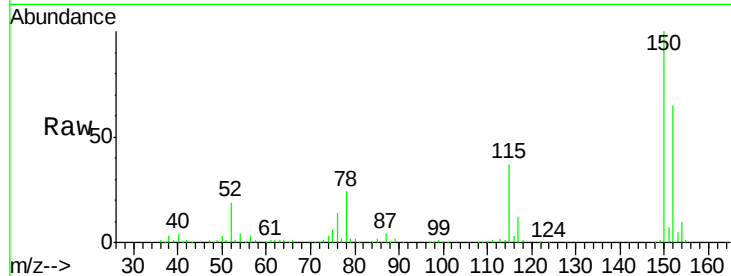


#1

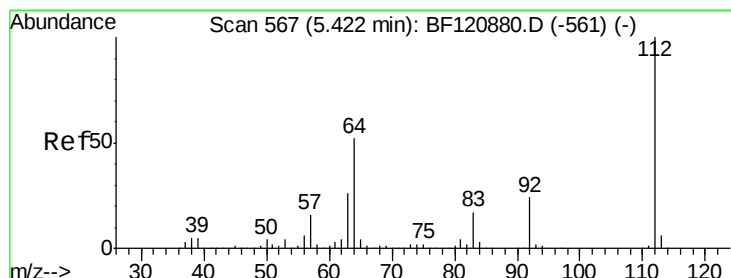
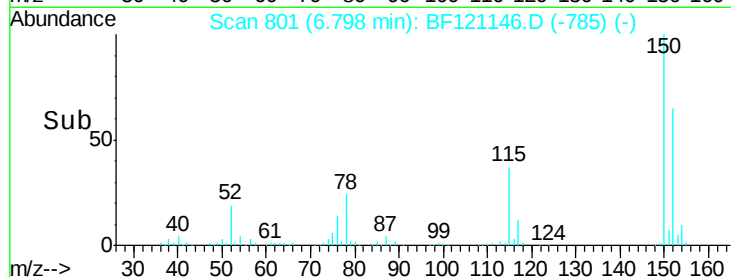
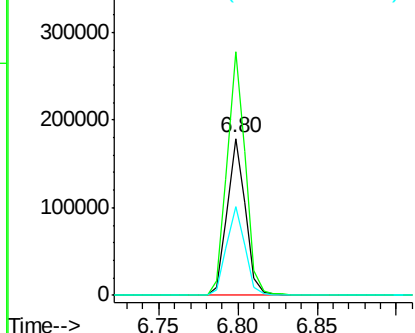
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.80 min Scan# 801  
 Delta R.T. -0.01 min  
 Lab File: BF121146.D  
 Acq: 31 Jul 2020 00:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-059-A

Tot Ion:152 Resp: 142979  
 Ion Ratio Lower Upper  
 152 100  
 150 154.9 125.6 188.4  
 115 56.8 46.2 69.2



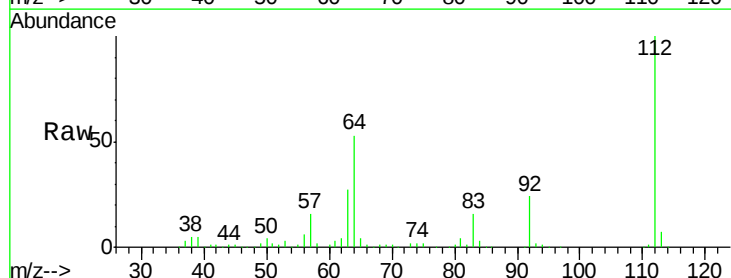
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



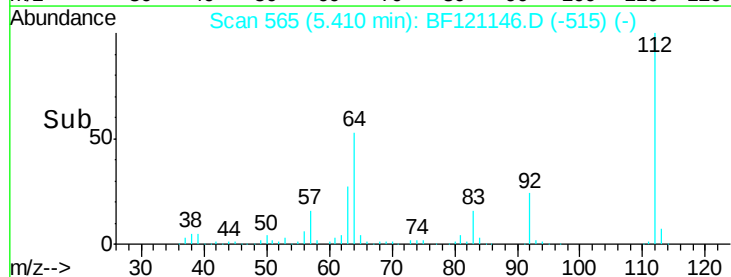
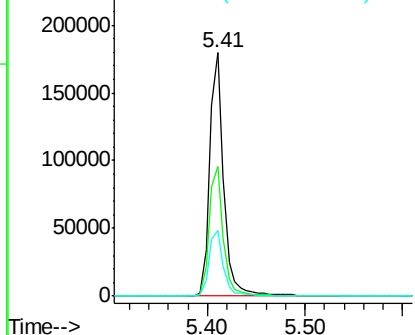
#5

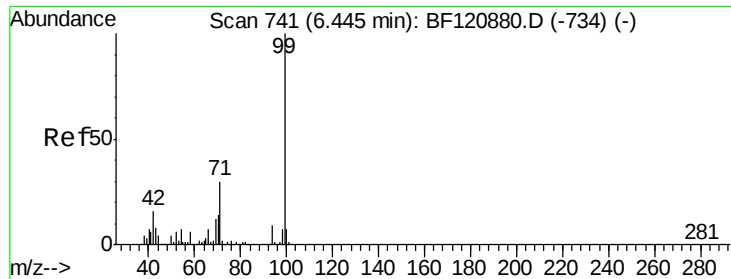
2-Fluorophenol  
 Concen: 20.547 ng  
 RT: 5.41 min Scan# 565  
 Delta R.T. -0.01 min  
 Lab File: BF121146.D  
 Acq: 31 Jul 2020 00:25

Tgt Ion:112 Resp: 179208  
 Ion Ratio Lower Upper  
 112 100  
 64 53.2 43.9 65.9  
 63 26.8 22.7 34.1



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF1  
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 20.694 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-059-A

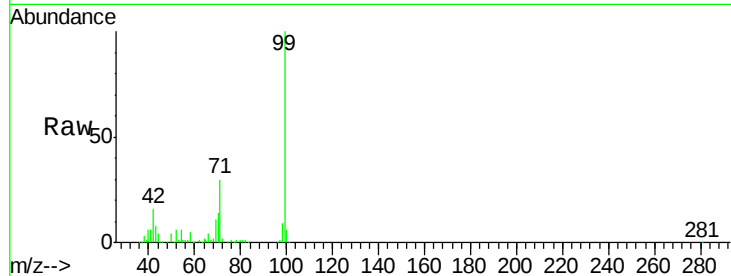
Tot Ion: 99 Resp: 233141

Ion Ratio Lower Upper

99 100

42 16.2 13.5 20.3

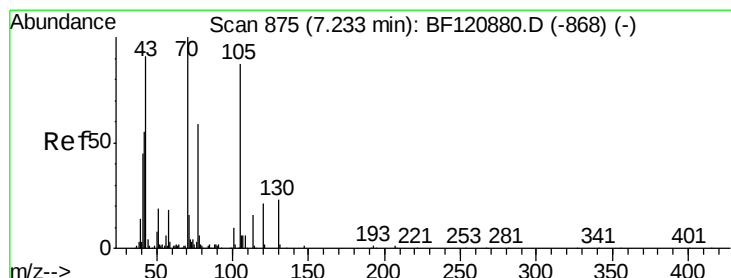
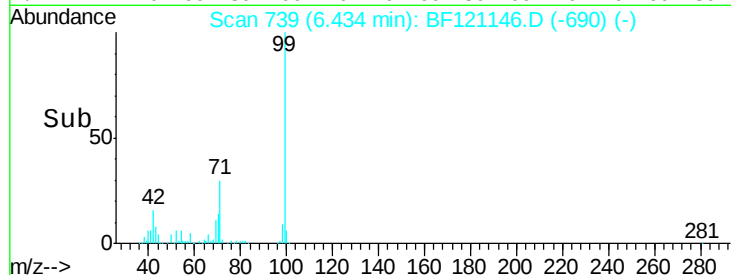
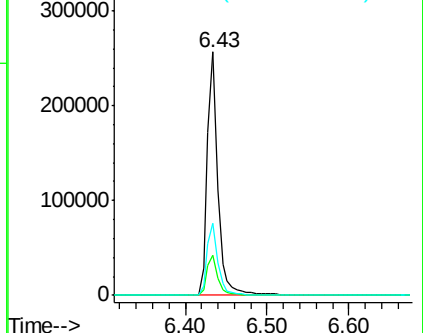
71 29.8 25.0 37.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.547 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.13 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

Tgt Ion: 70 Resp: 16317

Ion Ratio Lower Upper

70 100

42 47.5 43.3 64.9

101 0.0 8.4 12.6#

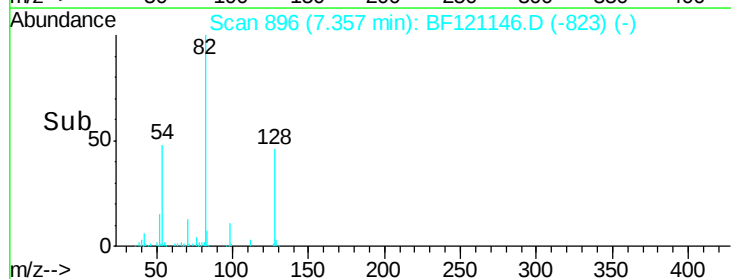
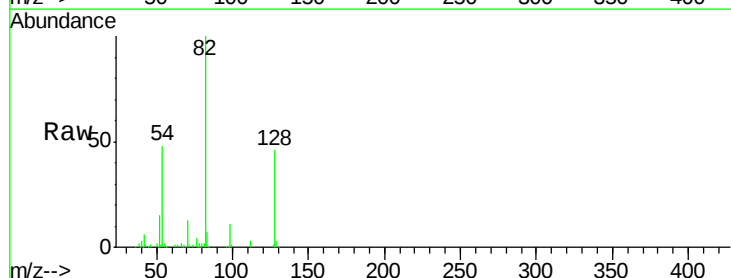
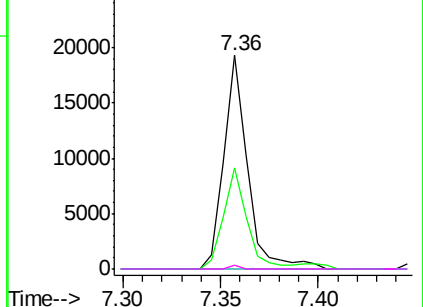
130 1.8 18.7 28.1#

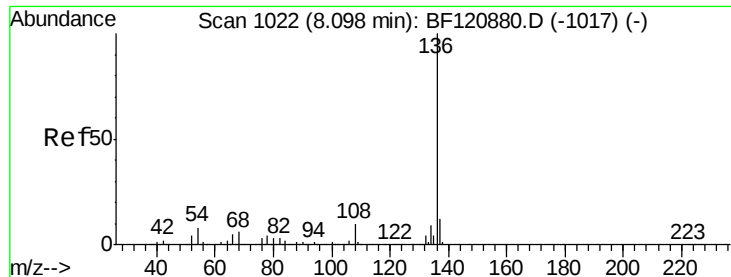
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-059-A

Tot Ion:136 Resp: 543605

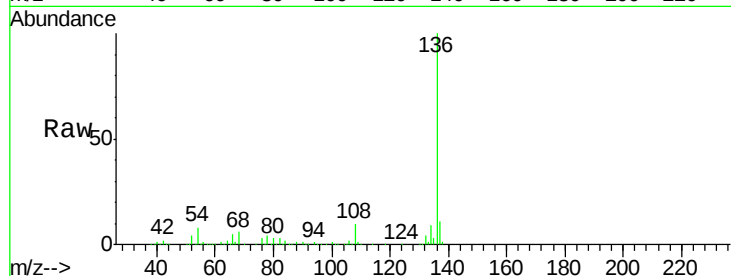
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 7.9 6.1 9.1

68 6.3 5.0 7.6

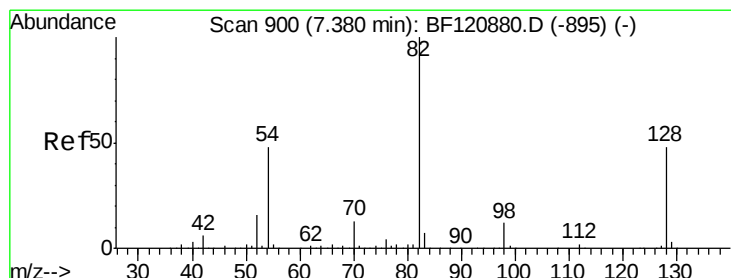
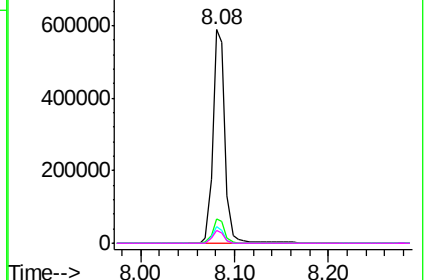
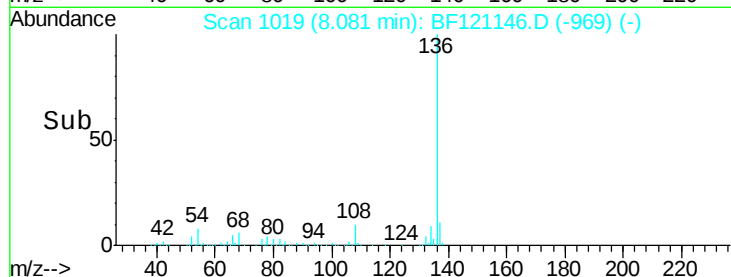


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 13.551 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.02 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

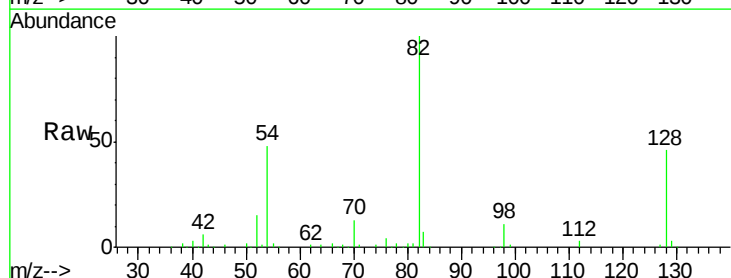
Tgt Ion: 82 Resp: 127308

Ion Ratio Lower Upper

82 100

128 46.2 39.2 58.8

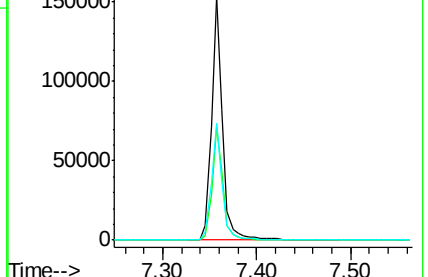
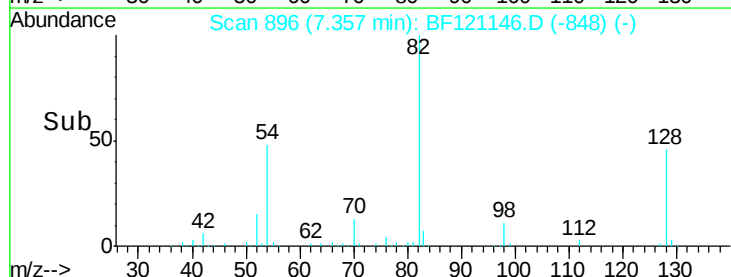
54 48.3 37.8 56.8

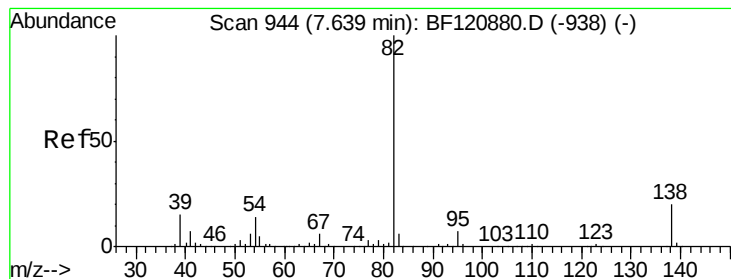


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 6.643 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.28 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-059-A

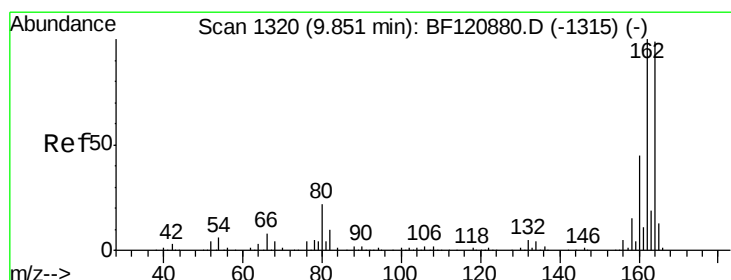
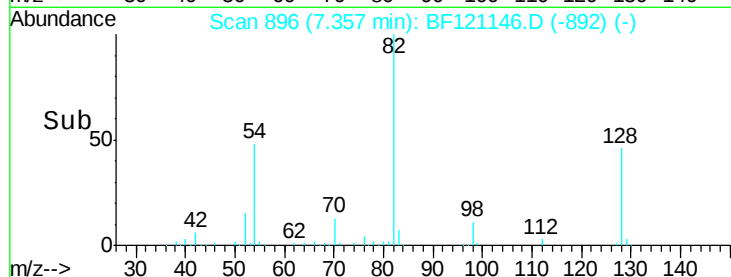
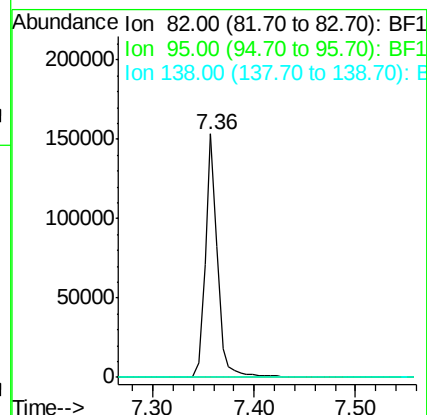
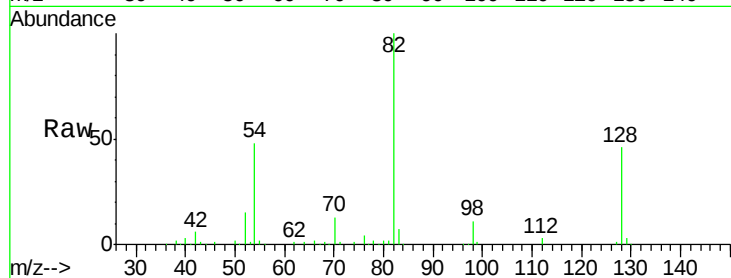
Tot Ion: 82 Resp: 124548

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

138 0.0 16.2 24.2#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

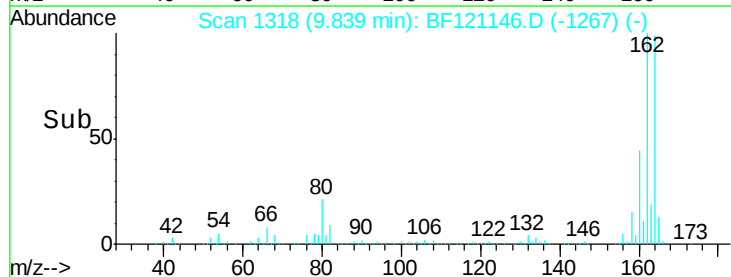
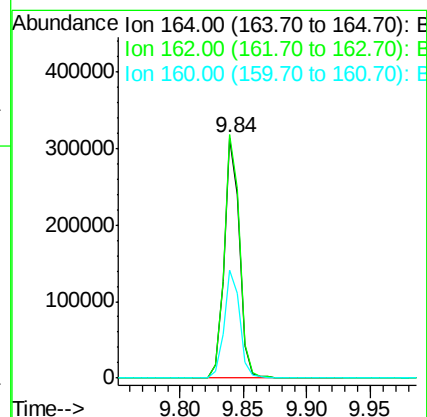
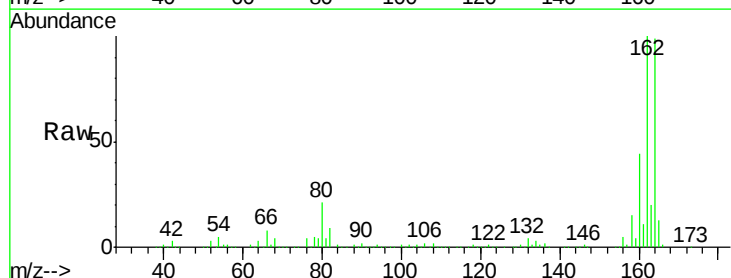
Tgt Ion: 164 Resp: 266420

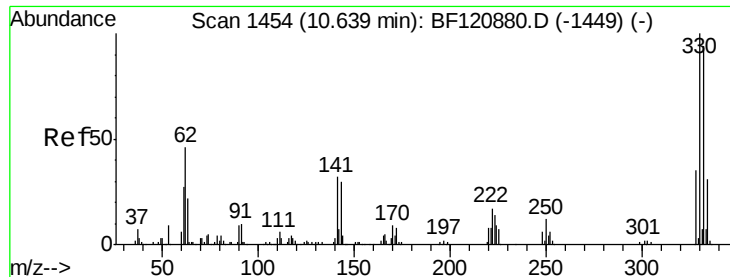
Ion Ratio Lower Upper

164 100

162 101.3 82.2 123.2

160 45.1 37.2 55.8





#42

2,4,6-Tribromophenol

Concen: 15.651 ng

RT: 10.63 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-059-A

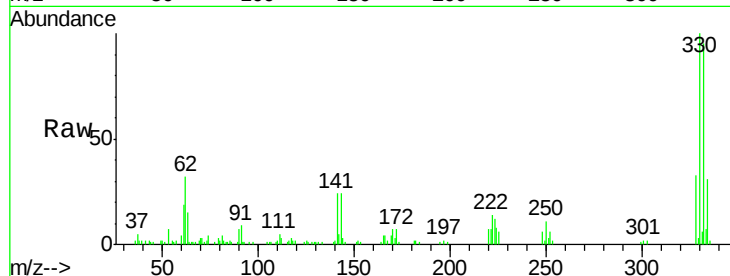
Tot Ion:330 Resp: 45643

Ion Ratio Lower Upper

330 100

332 95.7 76.1 114.1

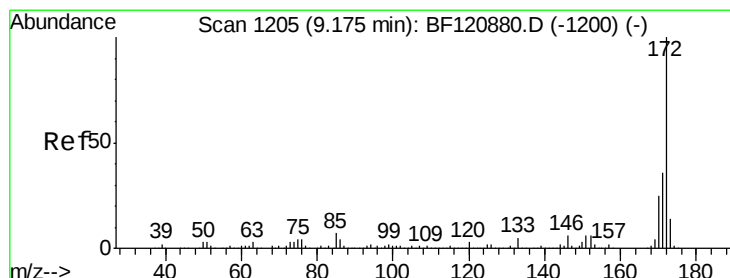
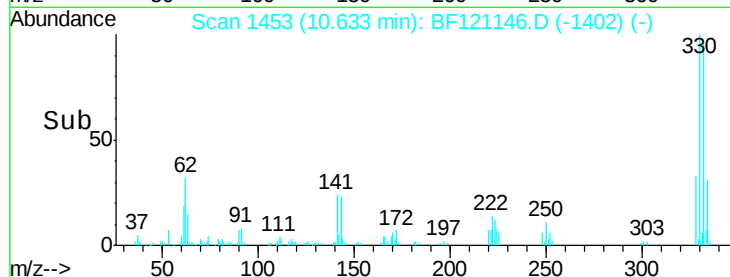
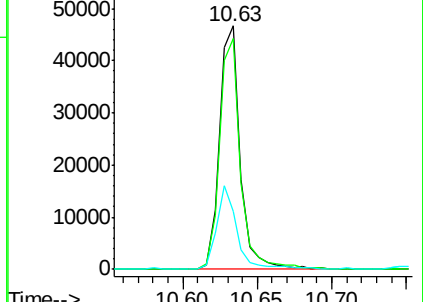
141 33.6 24.1 36.1



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 15.962 ng

RT: 9.16 min Scan# 1202

Delta R.T. -0.01 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

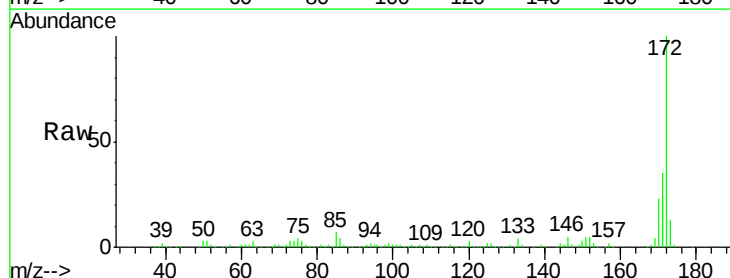
Tgt Ion:172 Resp: 284824

Ion Ratio Lower Upper

172 100

171 34.7 29.0 43.4

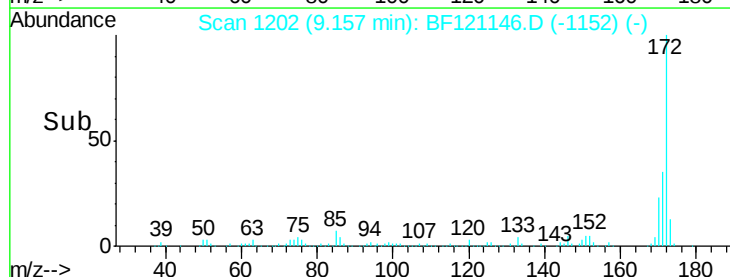
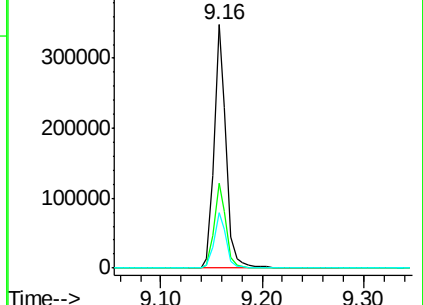
170 23.0 19.6 29.4

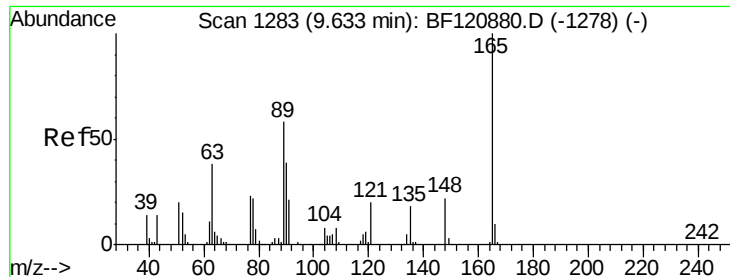


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

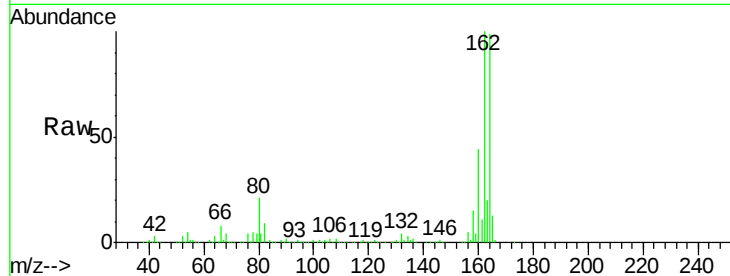




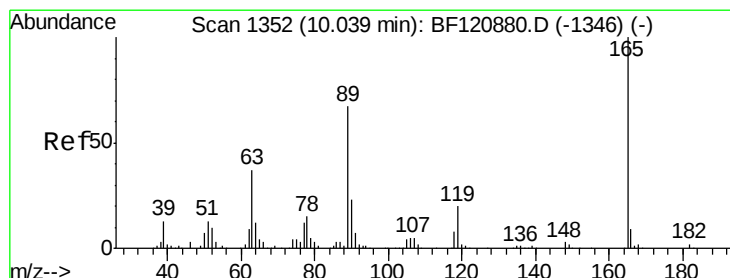
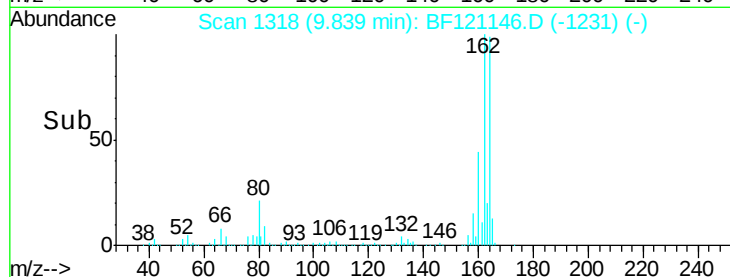
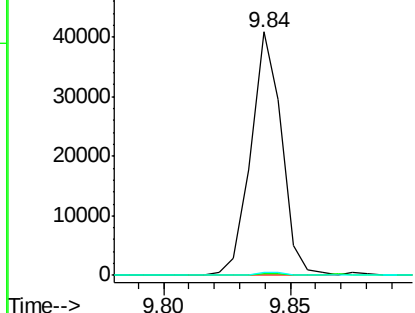
#51  
2,6-Dinitrotoluene  
Concen: 8.346 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. 0.21 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-059-A

Tot Ion:165 Resp: 34464  
Ion Ratio Lower Upper  
165 100  
63 0.9 41.1 61.7#  
89 1.2 43.5 65.3#



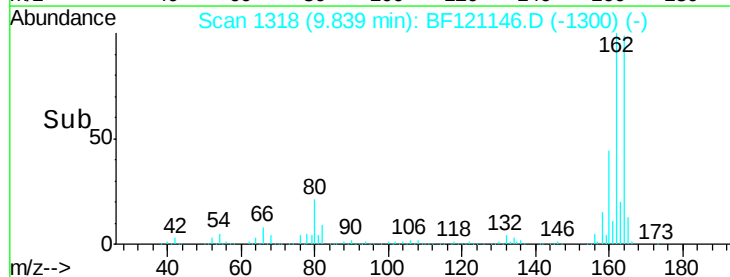
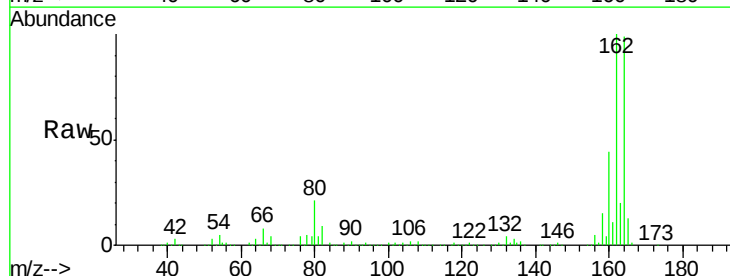
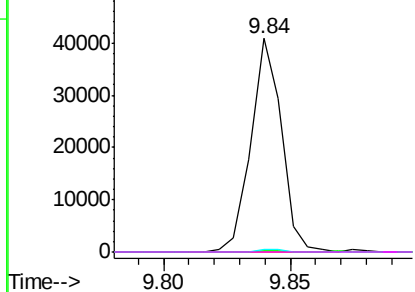
Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

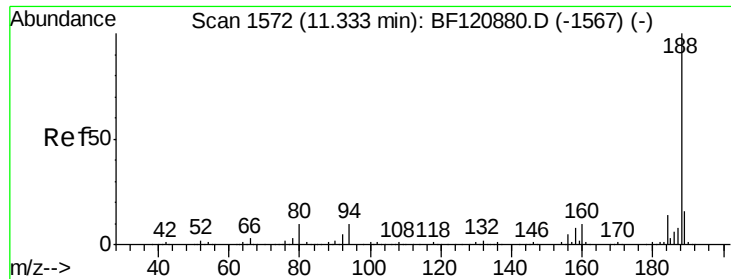


#57  
2,4-Dinitrotoluene  
Concen: 6.355 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.19 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Tgt Ion:165 Resp: 34464  
Ion Ratio Lower Upper  
165 100  
63 0.9 29.8 44.8#  
89 1.2 50.3 75.5#  
182 0.0 2.1 3.1#

Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-059-A

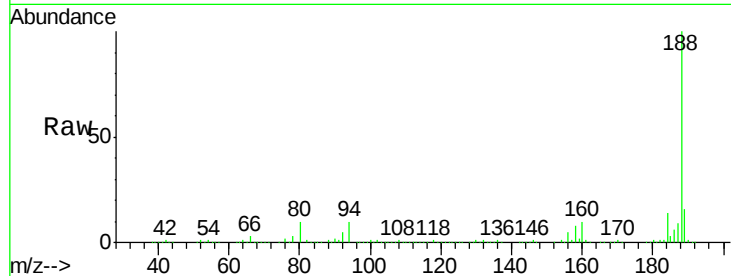
Tot Ion:188 Resp: 451351

Ion Ratio Lower Upper

188 100

94 9.6 8.0 12.0

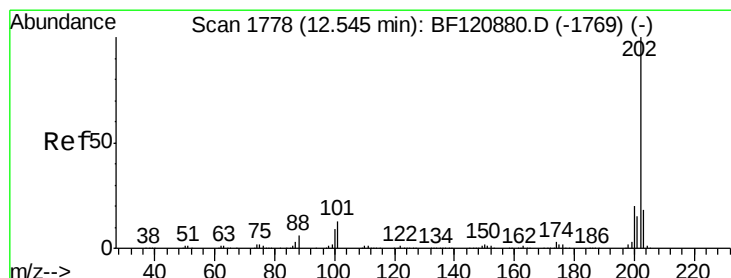
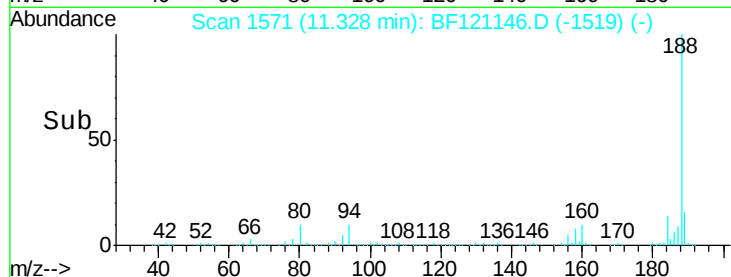
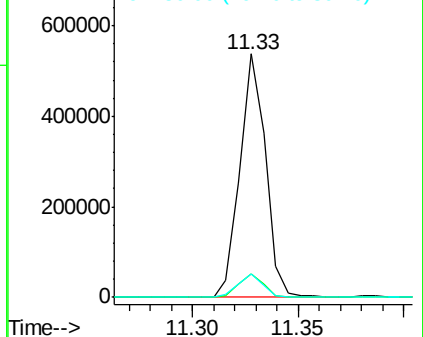
80 9.7 8.3 12.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#75

Fluoranthene

Concen: 2.769 ng

RT: 12.55 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

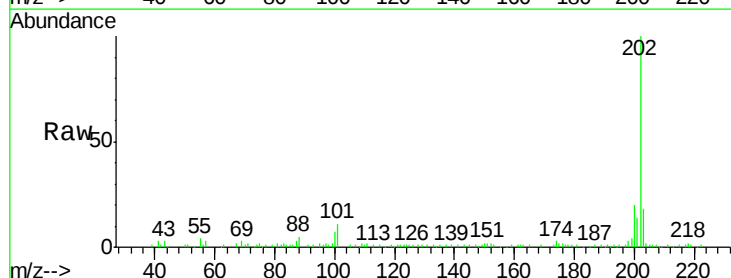
Tgt Ion:202 Resp: 71235

Ion Ratio Lower Upper

202 100

101 10.6 0.0 30.5

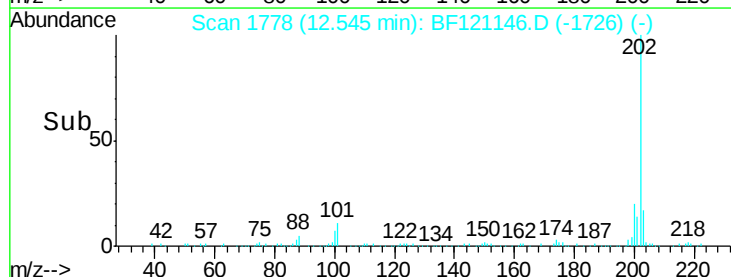
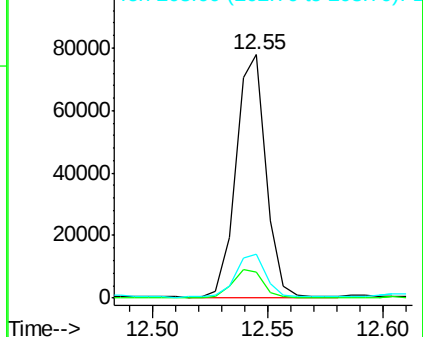
203 17.8 0.0 37.7

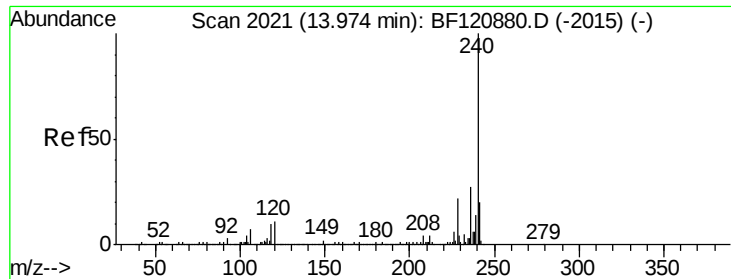


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

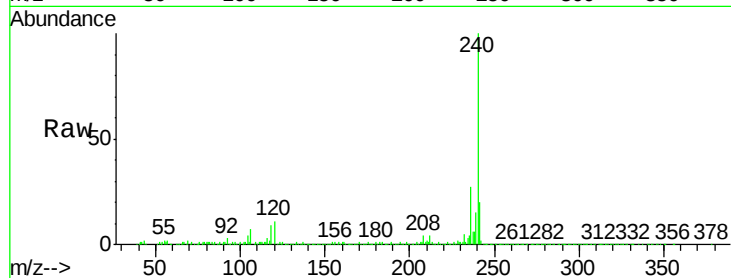




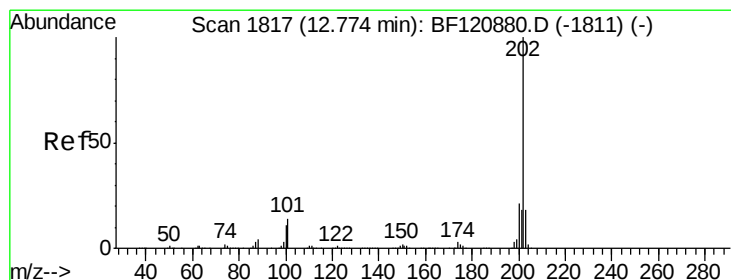
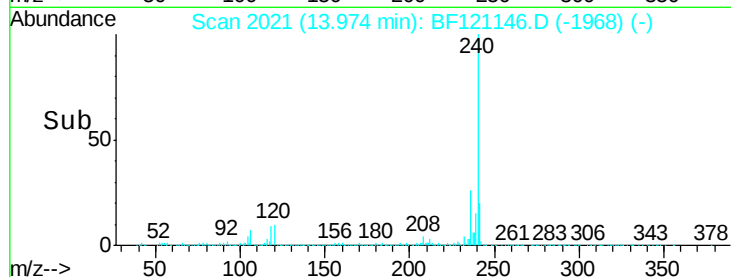
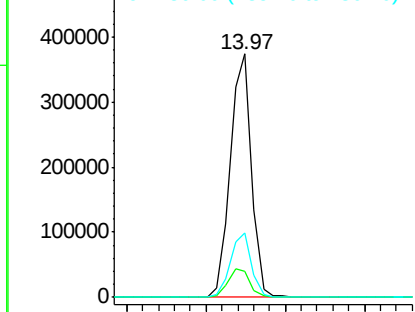
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. 0.01 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-059-A

Tot Ion:240 Resp: 344619  
Ion Ratio Lower Upper  
240 100  
120 10.6 9.3 13.9  
236 26.5 21.1 31.7

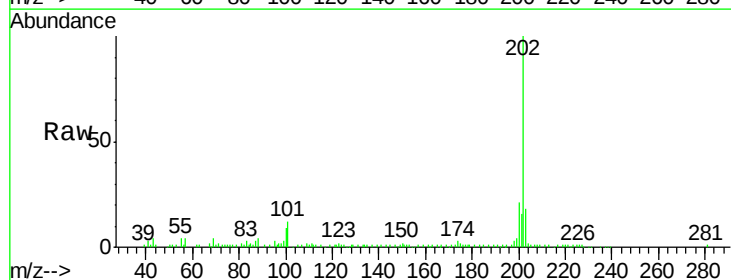


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

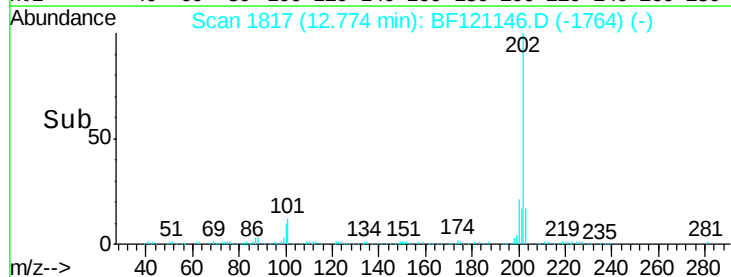
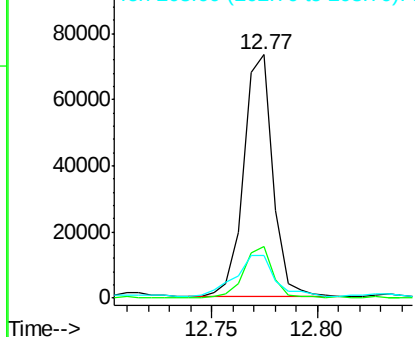


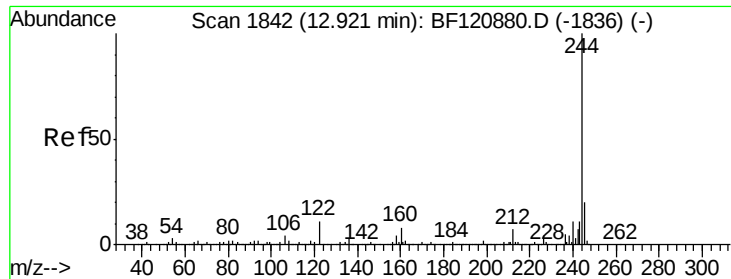
#78  
Pyrene  
Concen: 2.879 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. 0.01 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Tgt Ion:202 Resp: 70158  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.0 25.6  
203 17.6 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 15.141 ng

RT: 12.91 min Scan# 1840

Delta R.T. 0.00 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-059-A

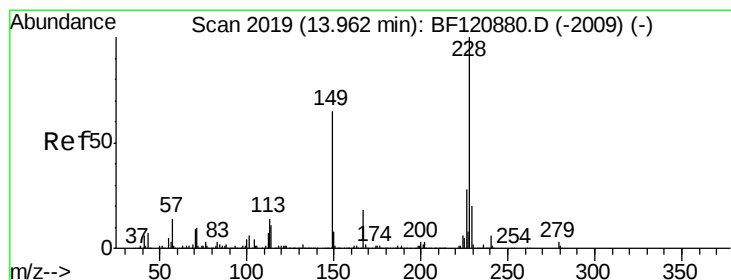
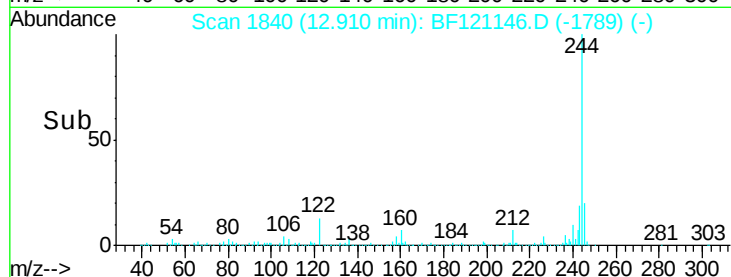
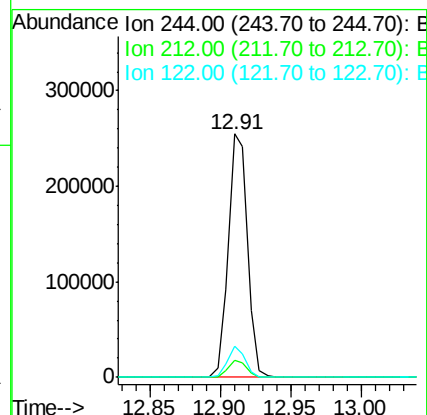
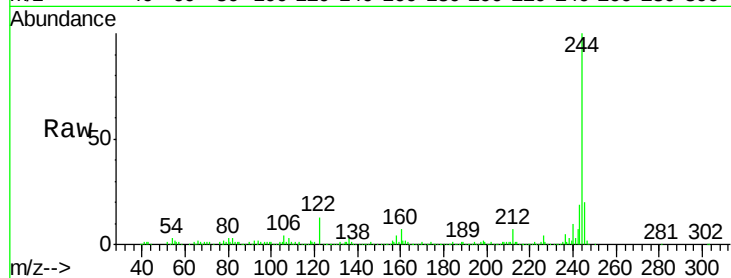
Tot Ion:244 Resp: 240038

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

122 12.8 8.3 12.5#



#81

Benzo(a)anthracene

Concen: 2.045 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF121146.D

Acq: 31 Jul 2020 00:25

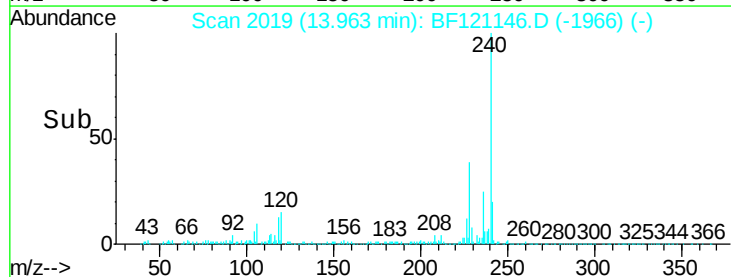
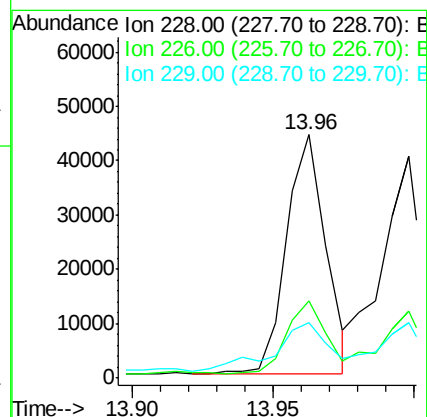
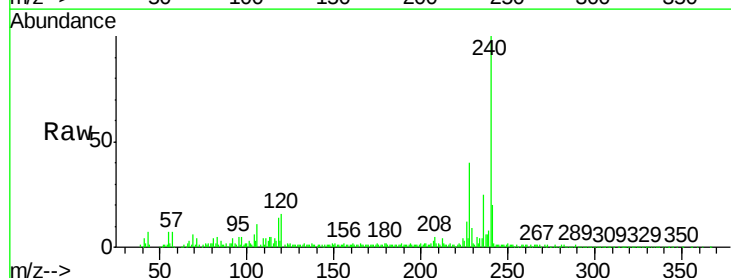
Tgt Ion:228 Resp: 42671

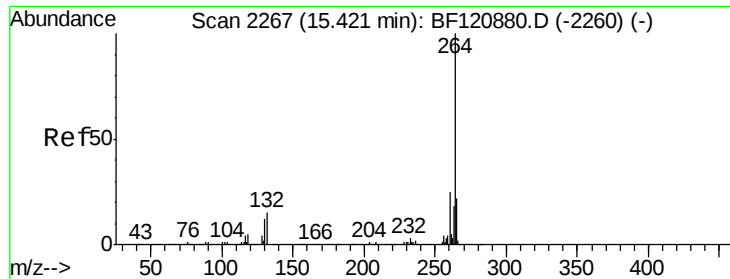
Ion Ratio Lower Upper

228 100

226 31.6 22.6 34.0

229 22.7 16.1 24.1



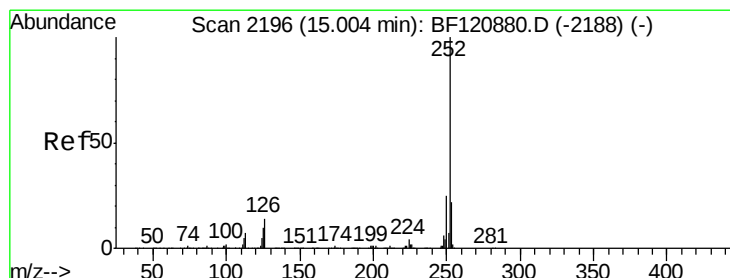
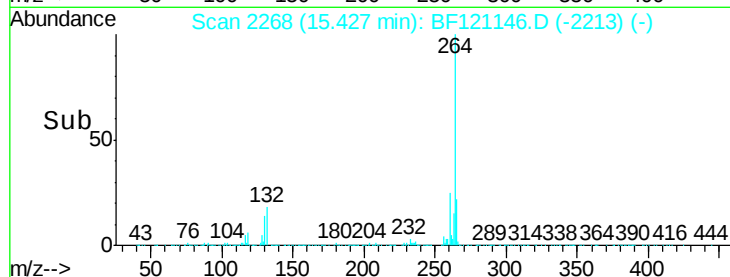
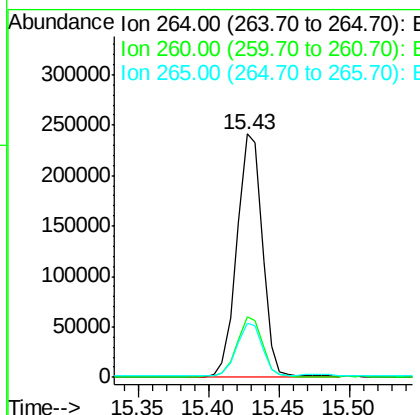
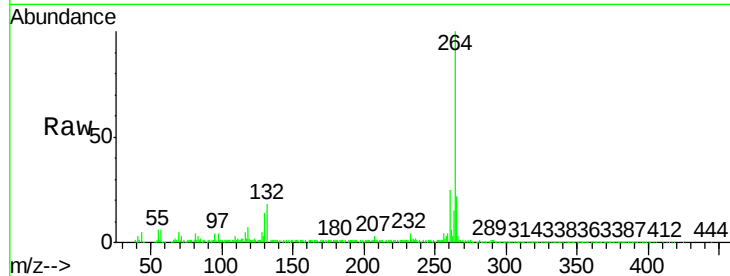


#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2268  
Delta R.T. 0.02 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-059-A

Tot Ion:264 Resp: 302102  

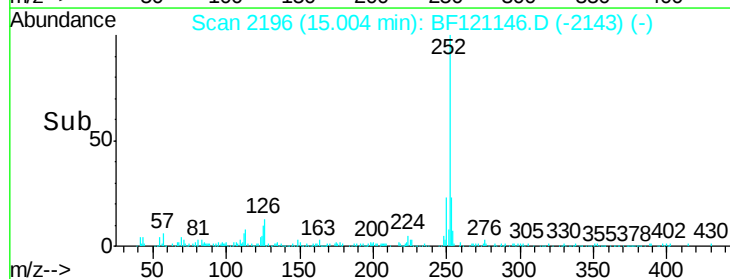
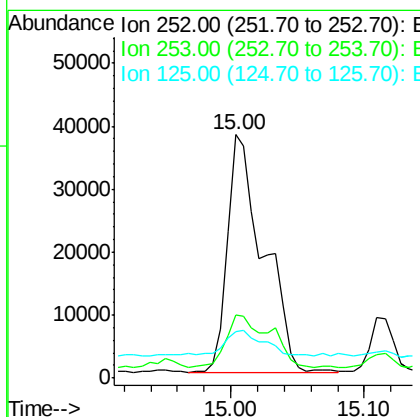
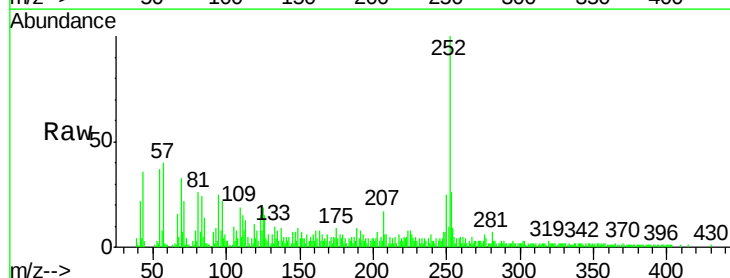
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.9  | 19.9  | 29.9  |
| 265 | 22.3  | 17.8  | 26.8  |

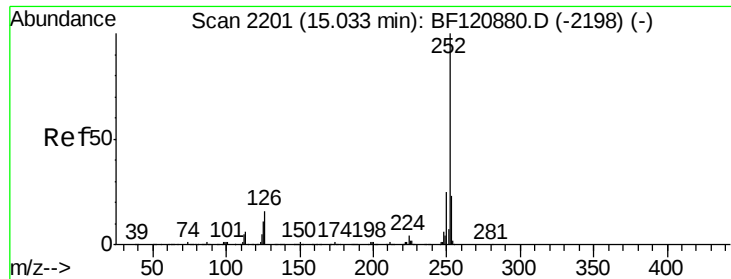


#88  
Benzo(b)fluoranthene  
Concen: 3.887 ng  
RT: 15.00 min Scan# 2196  
Delta R.T. 0.01 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Tgt Ion:252 Resp: 70981  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.9  | 17.9  | 26.9  |
| 125 | 19.3  | 8.1   | 12.1# |

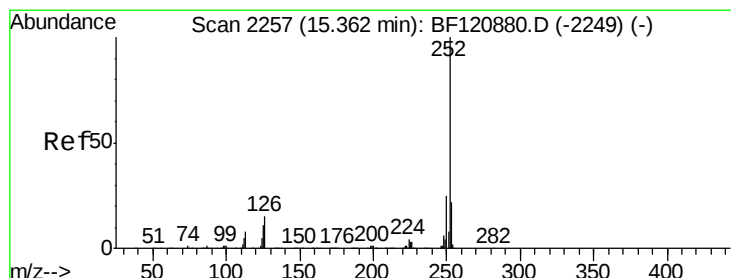
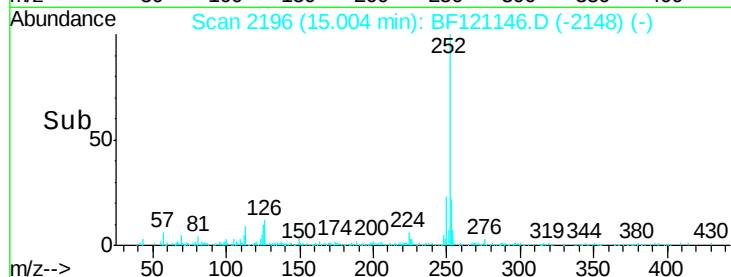
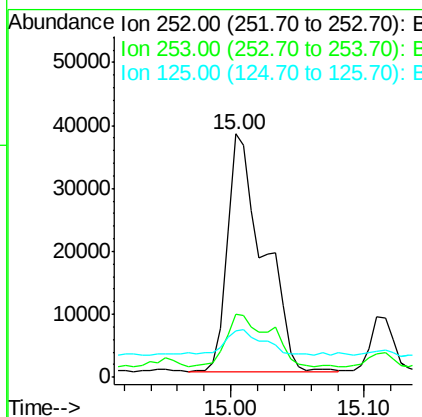
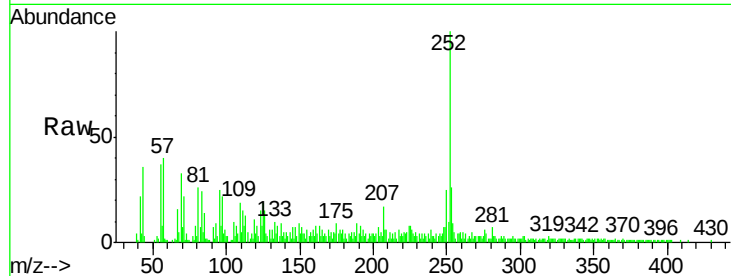




#89  
Benzo(k)fluoranthene  
Concen: 4.262 ng  
RT: 15.00 min Scan# 2196  
Delta R.T. -0.02 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-059-A

Tot Ion:252 Resp: 70981  
Ion Ratio Lower Upper  
252 100  
253 25.9 18.1 27.1  
125 19.3 8.0 12.0#



#90  
Benzo(a)pyrene  
Concen: 2.228 ng  
RT: 15.37 min Scan# 2258  
Delta R.T. 0.02 min  
Lab File: BF121146.D  
Acq: 31 Jul 2020 00:25

Tgt Ion:252 Resp: 37118  
Ion Ratio Lower Upper  
252 100  
253 28.9 18.0 27.0#  
125 20.9 9.5 14.3#

