

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\  
 Data File : BF121139.D  
 Acq On : 30 Jul 2020 20:50  
 Operator : JU/CG  
 Sample : L3436-08 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 8

Quant Time: Jul 31 00:32:35 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  | 137337   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 521932   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.84  | 164  | 260808   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 453284   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.97 | 240  | 342921   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.43 | 264  | 342412   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.40  | 112  | 143333   | 17.11 | ng    | -0.01    |
| 7) Phenol-d6                | 6.43  | 99   | 179650   | 16.60 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 102611   | 11.38 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 41822    | 14.65 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 219563   | 12.57 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.91 | 244  | 199400   | 12.64 | ng    | 0.00     |

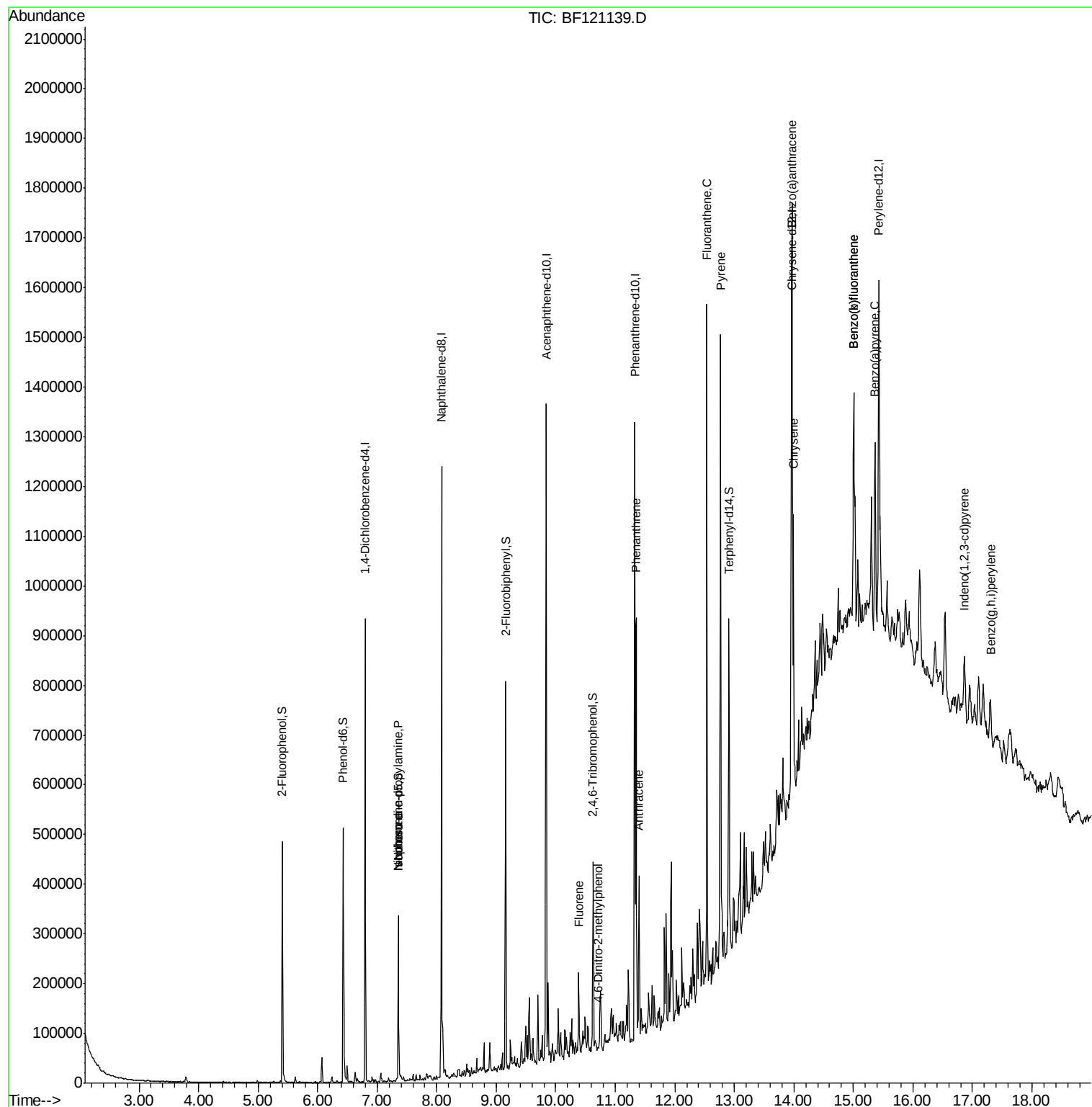
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.43  | 77   | 239      | Below Cal |       | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 14742    | 2.396     | ng    | # 79   |
| 25) Isophorone                 | 7.36  | 82   | 99391    | 5.521     | ng    | # 62   |
| 58) Fluorene                   | 10.39 | 166  | 42982    | 2.488     | ng    | # 99   |
| 65) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 371      | 3.973     | ng    | # 1    |
| 71) Phenanthrene               | 11.35 | 178  | 327818   | 14.062    | ng    | # 99   |
| 72) Anthracene                 | 11.40 | 178  | 118252   | 5.052     | ng    | # 98   |
| 75) Fluoranthene               | 12.54 | 202  | 515050   | 19.932    | ng    | # 98   |
| 78) Pyrene                     | 12.77 | 202  | 517312   | 21.337    | ng    | # 99   |
| 81) Benzo(a)anthracene         | 13.96 | 228  | 250755   | 12.076    | ng    | # 97   |
| 83) Chrysene                   | 13.99 | 228  | 218155   | 9.997     | ng    | # 96   |
| 87) Indeno(1,2,3-cd)pyrene     | 16.86 | 276  | 94024    | 3.948     | ng    | # 97   |
| 88) Benzo(b)fluoranthene       | 15.00 | 252  | 340733   | 16.462    | ng    | # 94   |
| 89) Benzo(k)fluoranthene       | 15.00 | 252  | 340733   | 18.051    | ng    | # 94   |
| 90) Benzo(a)pyrene             | 15.36 | 252  | 190920   | 10.110    | ng    | # 95   |
| 92) Benzo(g,h,i)perylene       | 17.30 | 276  | 87943    | 4.585     | ng    | # 95   |

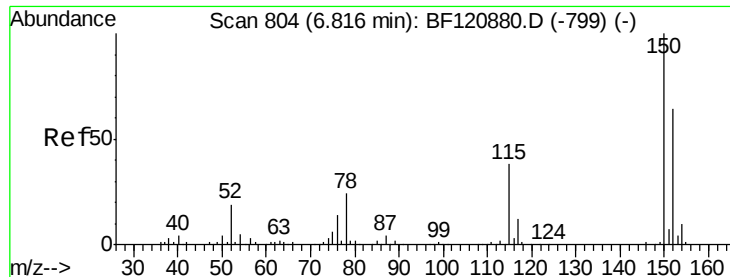
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\  
Data File : BF121139.D  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
8

Quant Time: Jul 31 00:32:35 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
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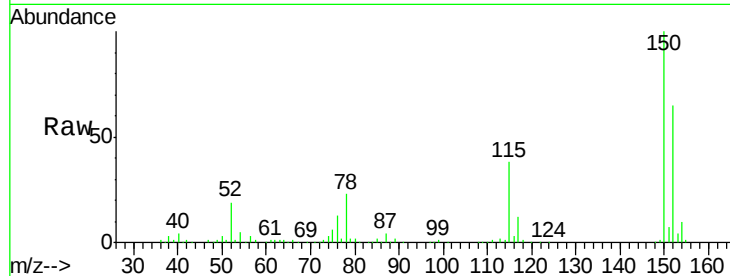


#1

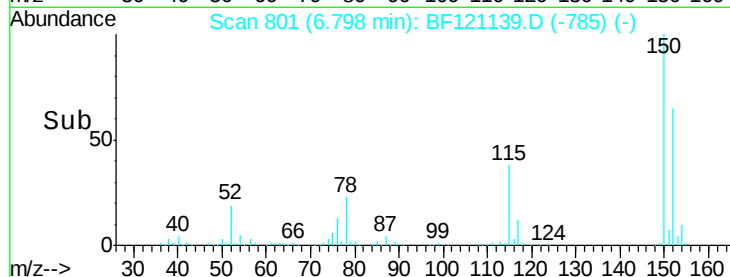
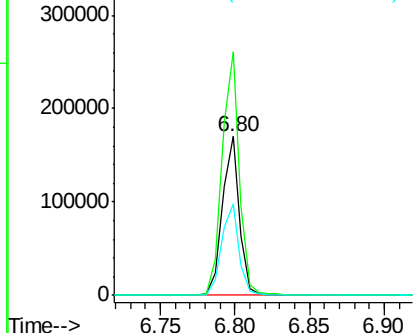
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. -0.01 min  
Lab File: BF121139.D  
Acq: 30 Jul 2020 20:50

Instrument :  
BNA\_F  
ClientSampleId :  
8

Tot Ion:152 Resp: 137337  
Ion Ratio Lower Upper  
152 100  
150 153.4 125.6 188.4  
115 57.6 46.2 69.2



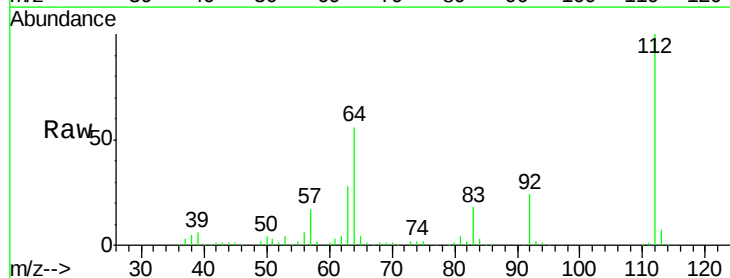
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



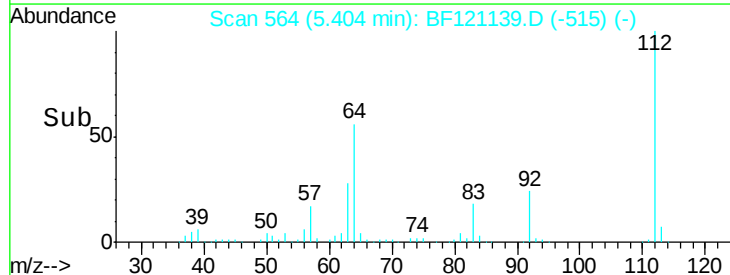
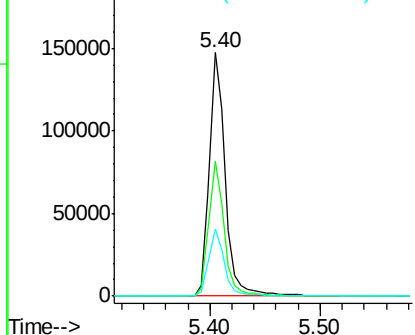
#5

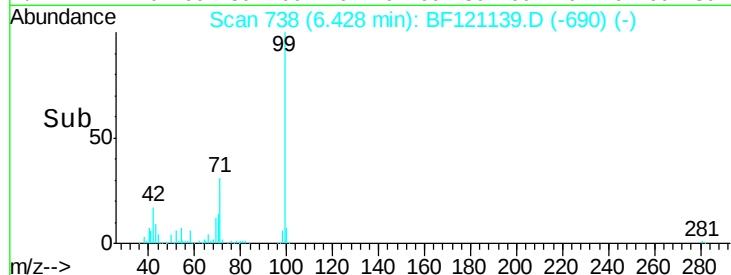
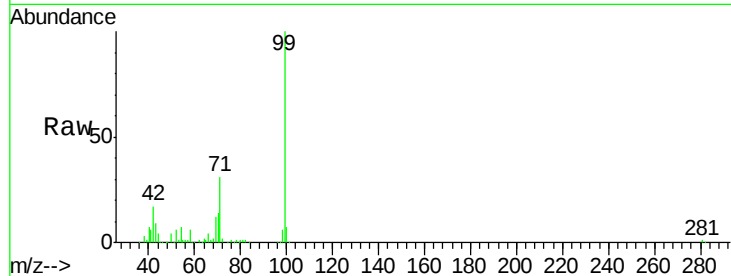
2-Fluorophenol  
Concen: 17.109 ng  
RT: 5.40 min Scan# 564  
Delta R.T. -0.01 min  
Lab File: BF121139.D  
Acq: 30 Jul 2020 20:50

Tgt Ion:112 Resp: 143333  
Ion Ratio Lower Upper  
112 100  
64 55.6 43.9 65.9  
63 27.7 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: 16.601 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.02 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

Instrument :

BNA\_F

ClientSampled :

8

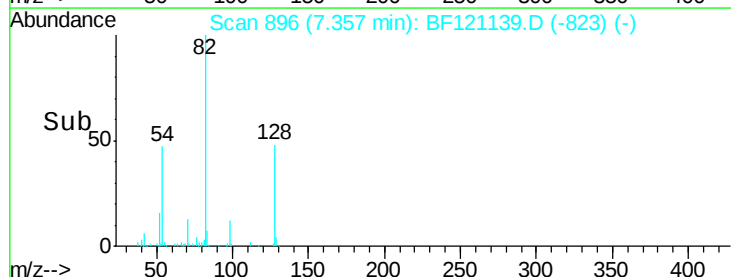
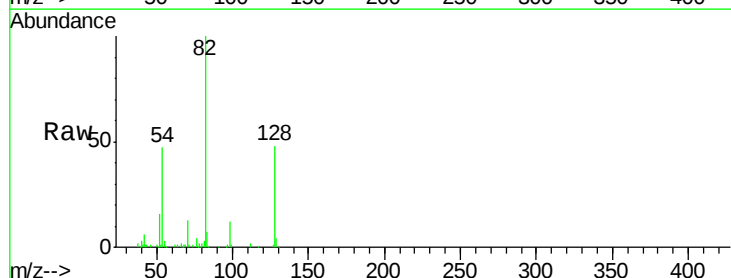
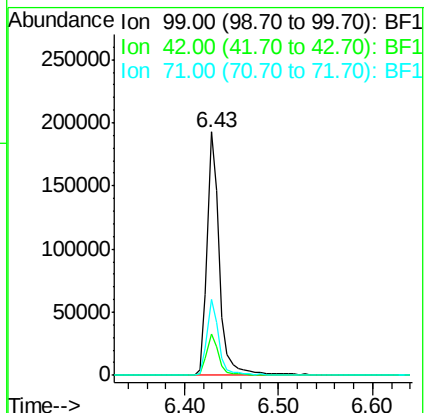
Tot Ion: 99 Resp: 179650

Ion Ratio Lower Upper

99 100

42 17.1 13.5 20.3

71 31.2 25.0 37.4



#19

n-Nitroso-di-n-propylamine

Concen: 2.396 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.13 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

Tgt Ion: 70 Resp: 14742

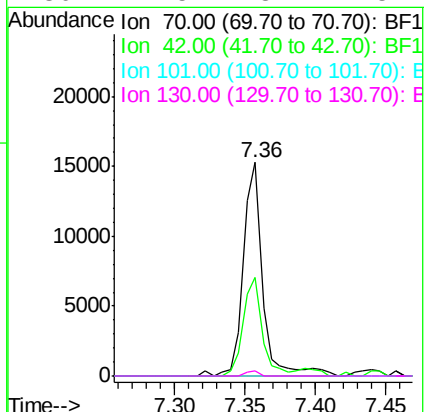
Ion Ratio Lower Upper

70 100

42 46.3 43.3 64.9

101 0.0 8.4 12.6#

130 2.5 18.7 28.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

Instrument :

BNA\_F

ClientSampleId :

8

Tot Ion:136 Resp: 521932

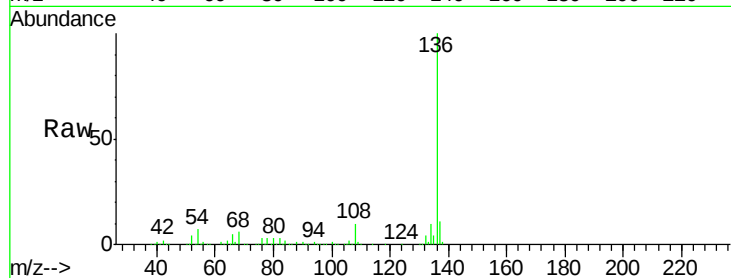
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 7.2 6.1 9.1

68 6.1 5.0 7.6

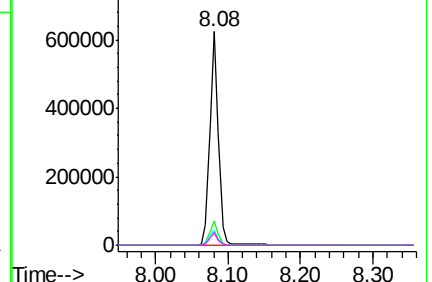
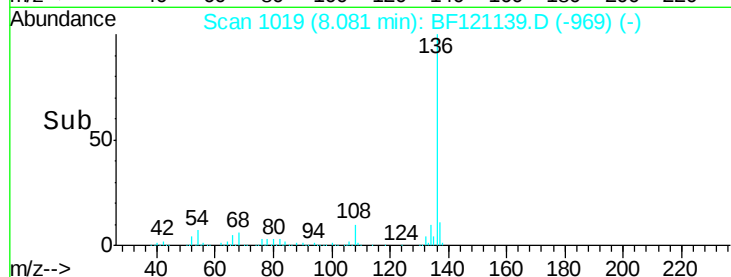


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.376 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.02 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

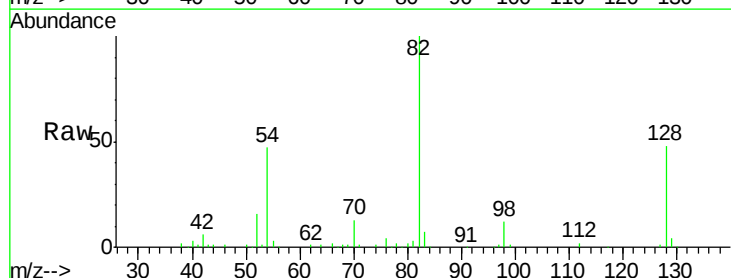
Tgt Ion: 82 Resp: 102611

Ion Ratio Lower Upper

82 100

128 48.3 39.2 58.8

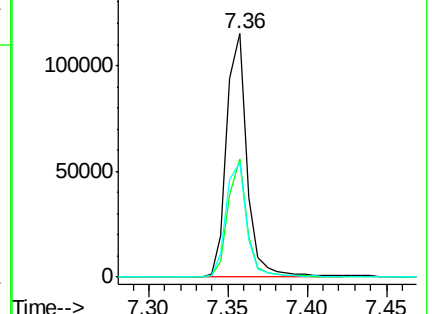
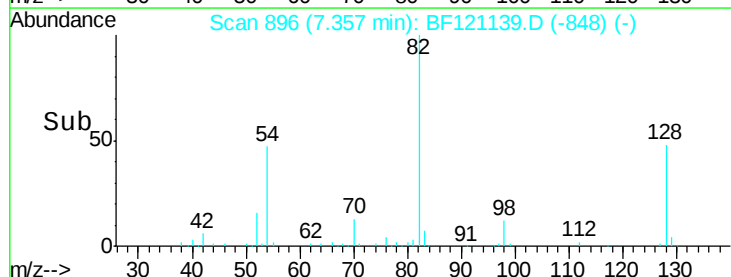
54 47.1 37.8 56.8

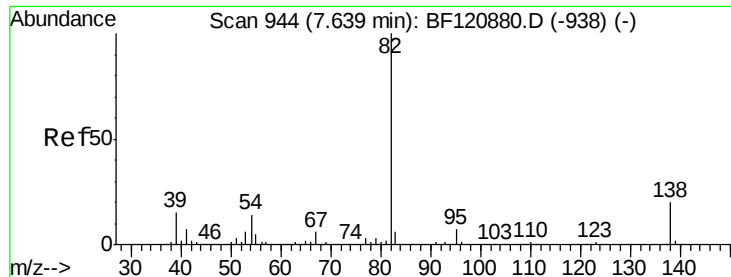


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

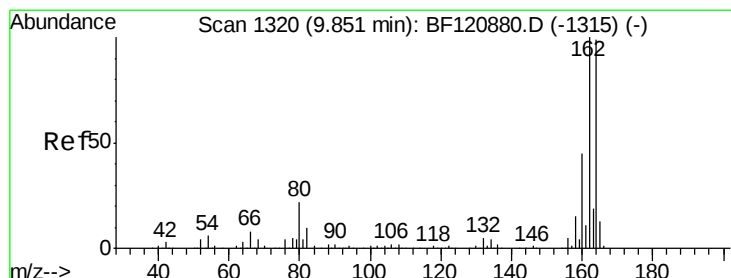
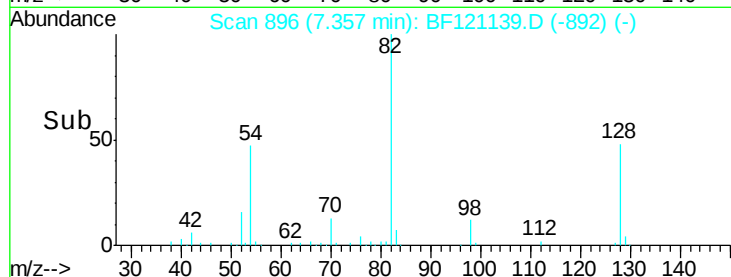
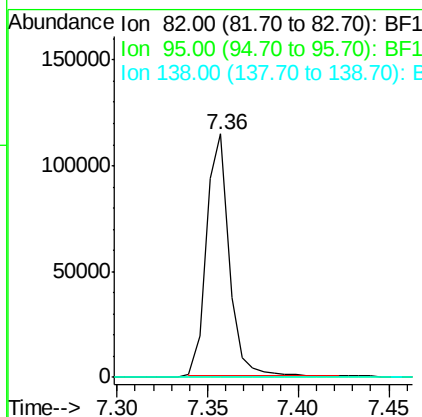
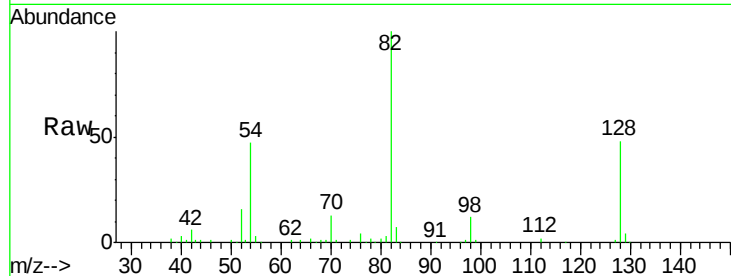




#25  
Isophorone  
Concen: 5.521 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.28 min  
Lab File: BF121139.D  
Acq: 30 Jul 2020 20:50

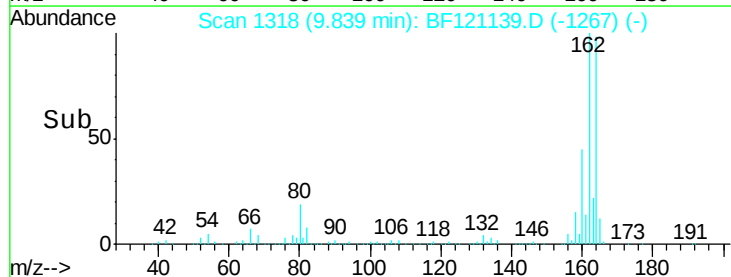
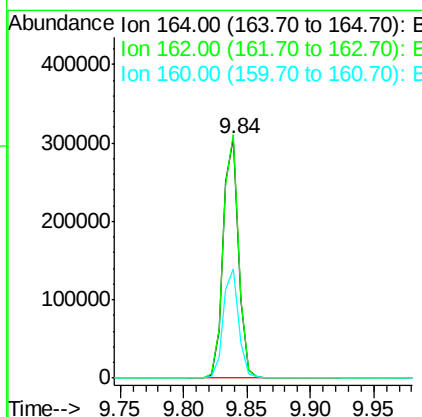
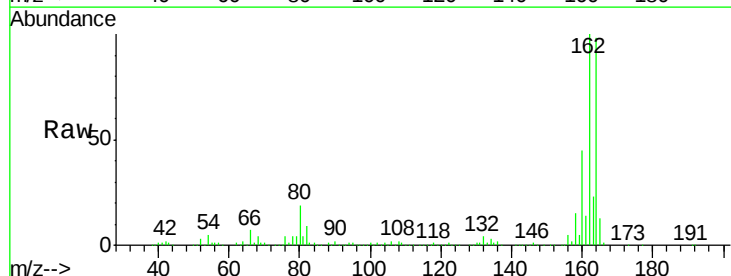
Instrument :  
BNA\_F  
ClientSampleId :  
8

Tot Ion: 82 Resp: 99391  
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: BF121139.D  
Acq: 30 Jul 2020 20:50

Tgt Ion:164 Resp: 260808  
Ion Ratio Lower Upper  
164 100  
162 101.6 82.2 123.2  
160 45.8 37.2 55.8

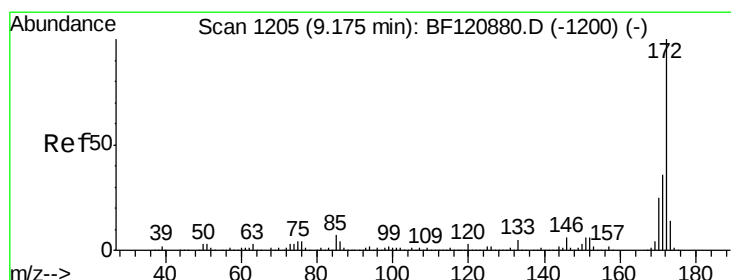
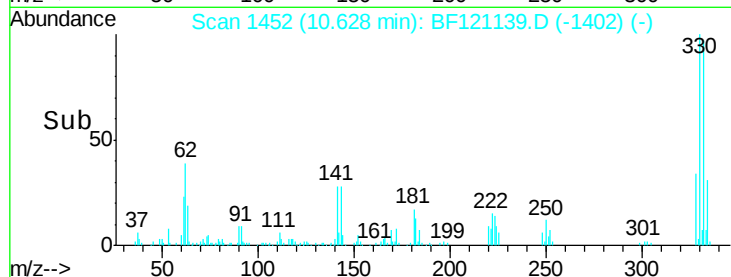
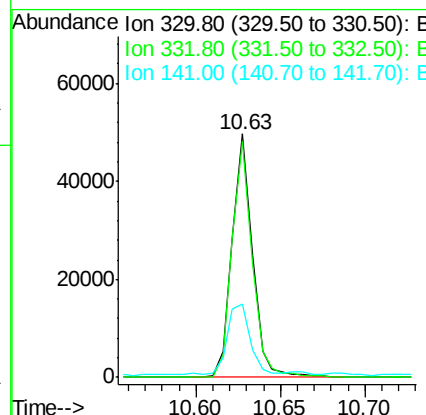
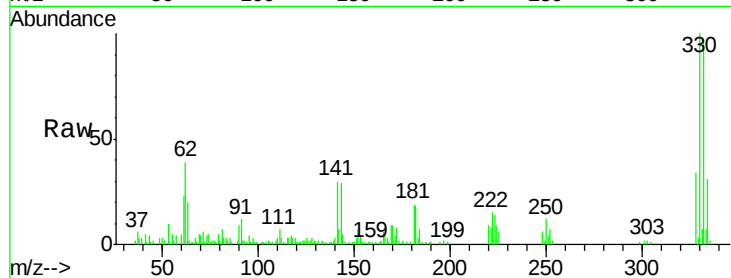




#42  
 2,4,6-Tribromophenol  
 Concen: 14.650 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.01 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

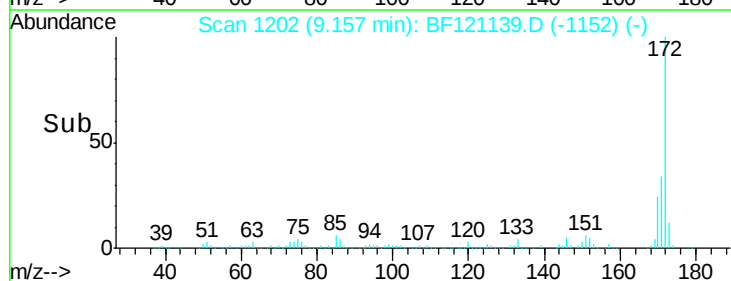
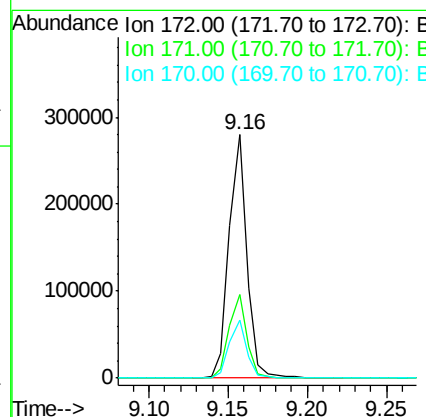
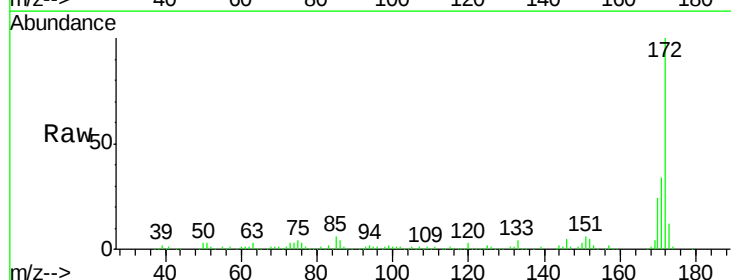
Instrument :  
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 ClientSampleId :  
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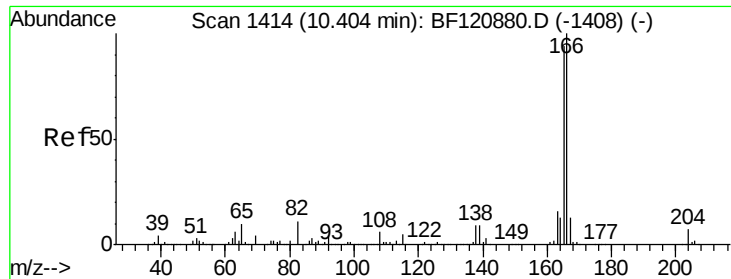
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 76.1  | 114.1 |
| 141     | 31.9  | 24.1  | 36.1  |



#45  
 2-Fluorobiphenyl  
 Concen: 12.569 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. -0.01 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.5  | 29.0  | 43.4  |
| 170     | 23.7  | 19.6  | 29.4  |

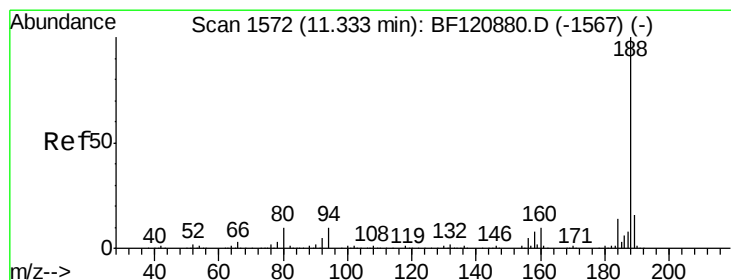
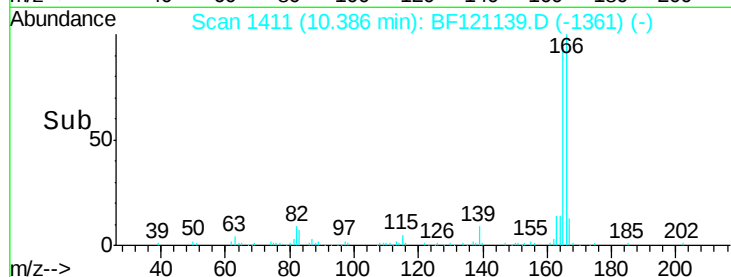
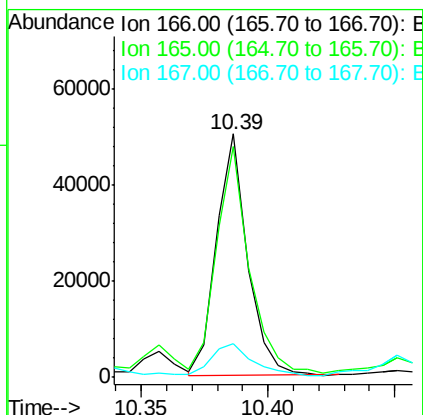
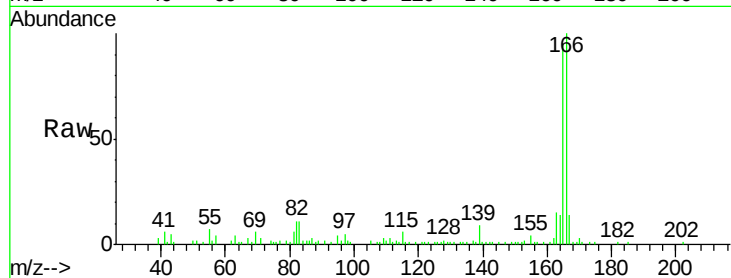




#58  
 Fluorene  
 Concen: 2.488 ng  
 RT: 10.39 min Scan# 1411  
 Delta R.T. -0.01 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

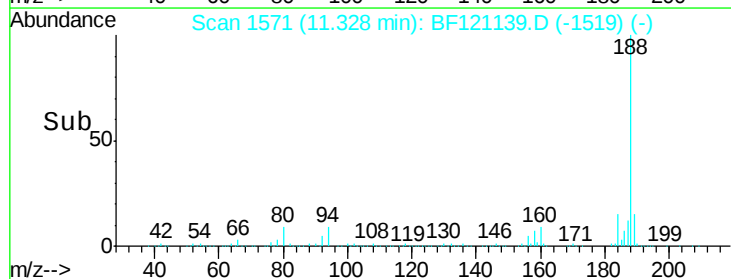
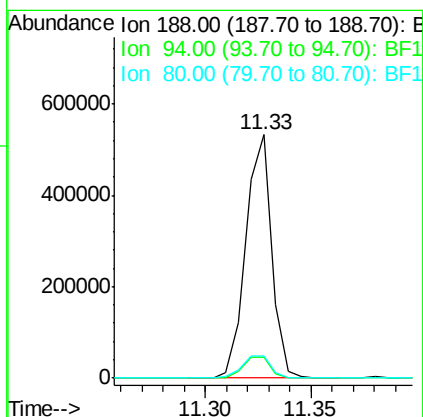
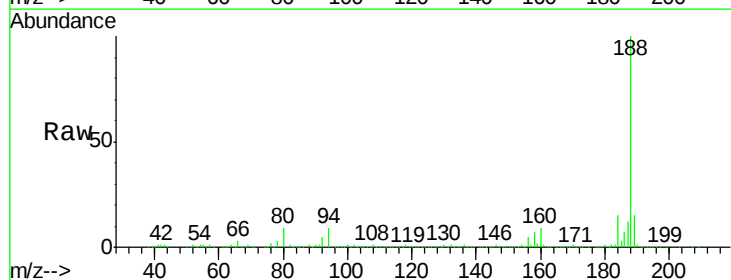
Instrument :  
 BNA\_F  
 ClientSampled :  
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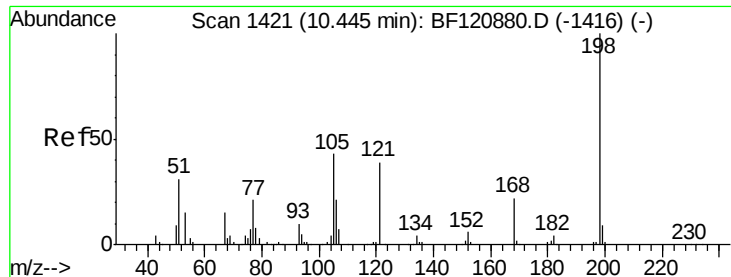
Tot Ion:166 Resp: 42982  
 Ion Ratio Lower Upper  
 166 100  
 165 94.6 76.4 114.6  
 167 13.7 10.7 16.1



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1571  
 Delta R.T. 0.01 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

Tgt Ion:188 Resp: 453284  
 Ion Ratio Lower Upper  
 188 100  
 94 8.7 8.0 12.0  
 80 9.0 8.3 12.5





#65

4,6-Dinitro-2-methylphenol

Concen: 3.973 ng

RT: 10.70 min Scan# 1465

Delta R.T. 0.26 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

Instrument :

BNA\_F

ClientSampled :

8

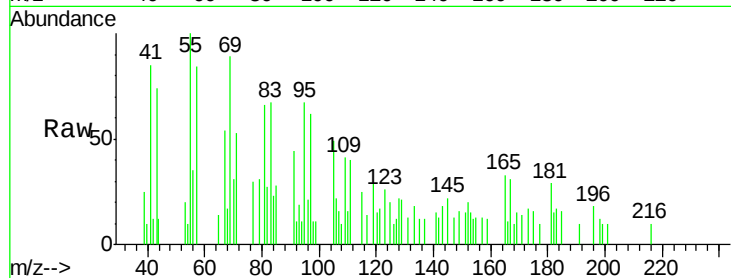
Tot Ion:198 Resp: 371

Ion Ratio Lower Upper

198 100

51 0.0 23.4 63.4#

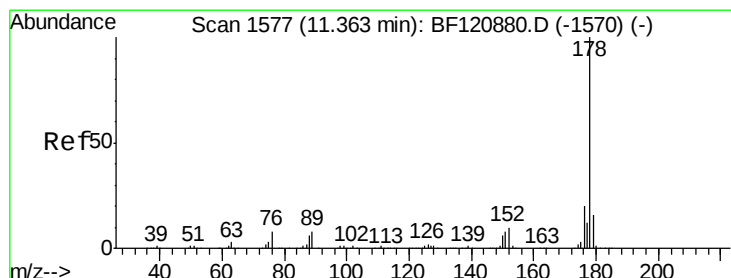
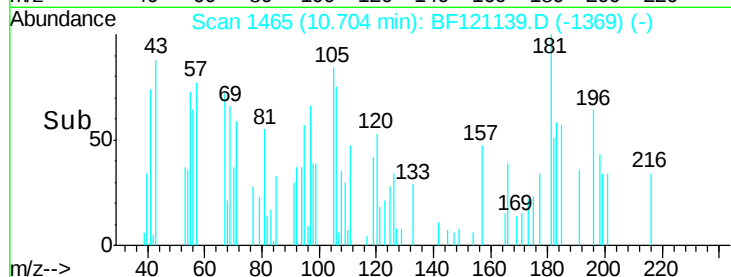
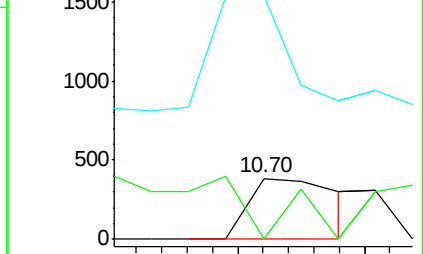
105 400.5 23.7 63.7#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#71

Phenanthrene

Concen: 14.062 ng

RT: 11.35 min Scan# 1575

Delta R.T. 0.00 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

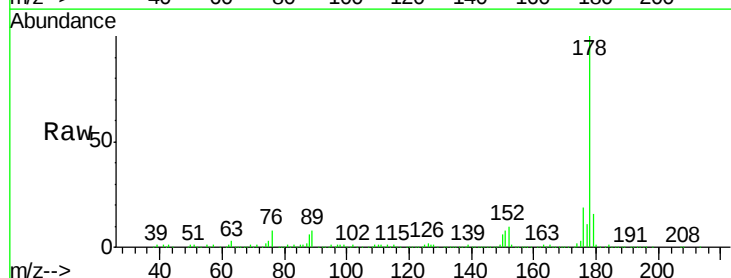
Tgt Ion:178 Resp: 327818

Ion Ratio Lower Upper

178 100

176 19.4 16.2 24.2

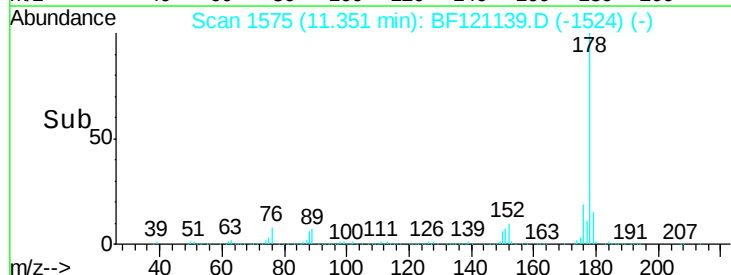
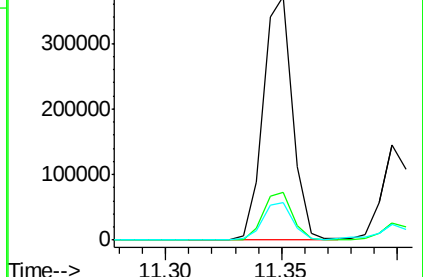
179 15.6 12.6 19.0

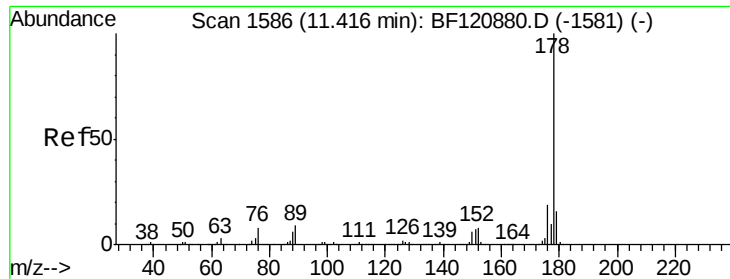


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

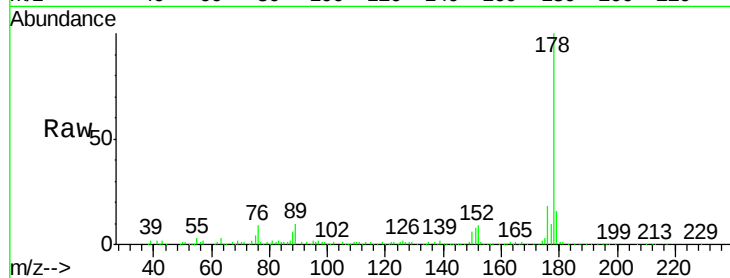




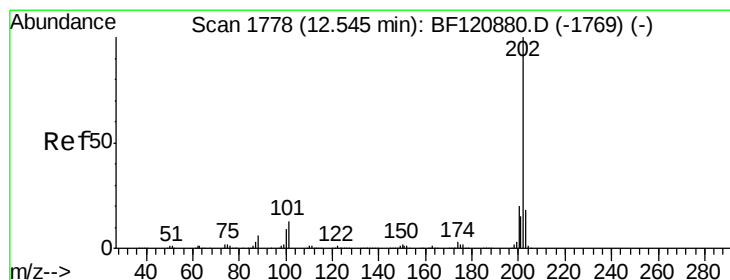
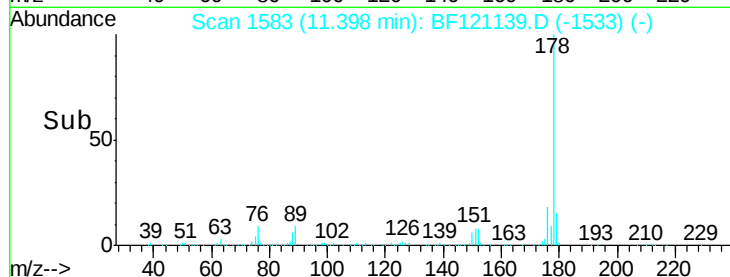
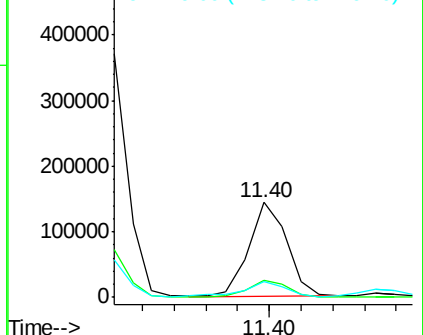
#72  
 Anthracene  
 Concen: 5.052 ng  
 RT: 11.40 min Scan# 1583  
 Delta R.T. -0.01 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 8

Tot Ion:178 Resp: 118252  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 15.8 23.8  
 179 16.0 12.6 19.0

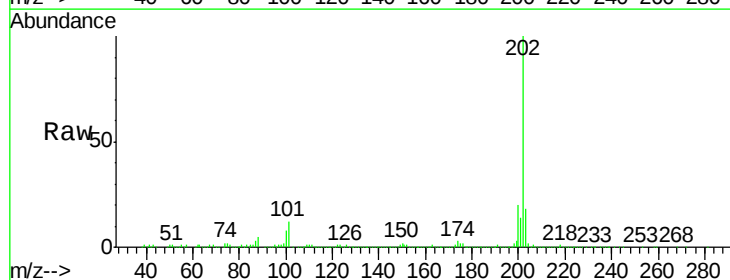


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

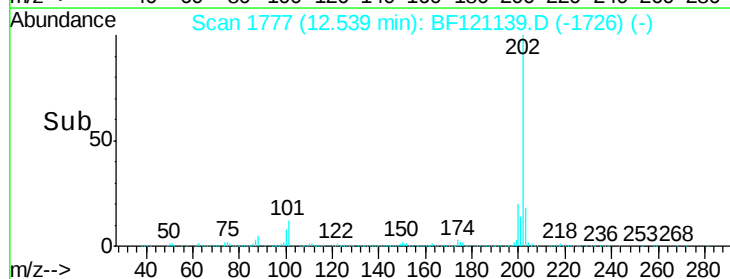
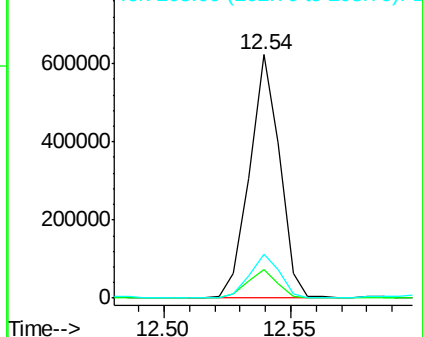


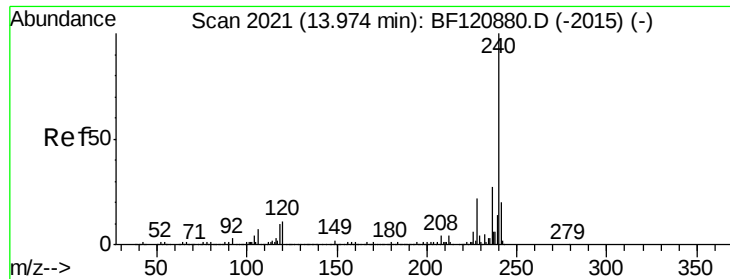
#75  
 Fluoranthene  
 Concen: 19.932 ng  
 RT: 12.54 min Scan# 1777  
 Delta R.T. 0.00 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

Tgt Ion:202 Resp: 515050  
 Ion Ratio Lower Upper  
 202 100  
 101 11.9 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

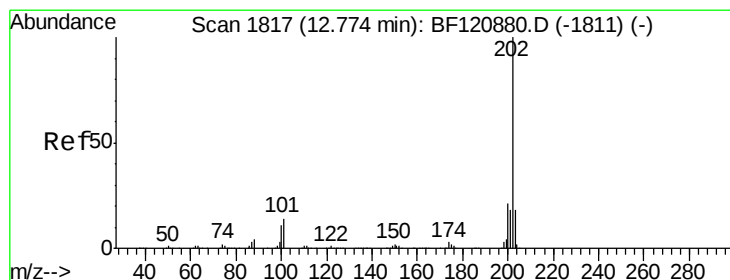
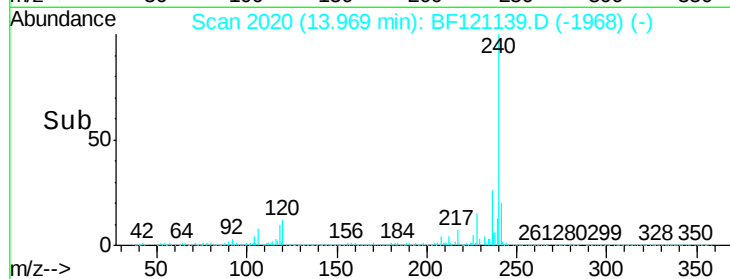
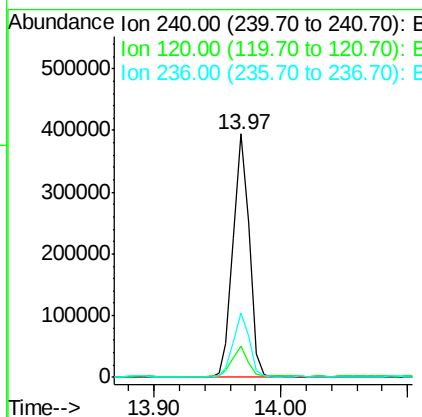
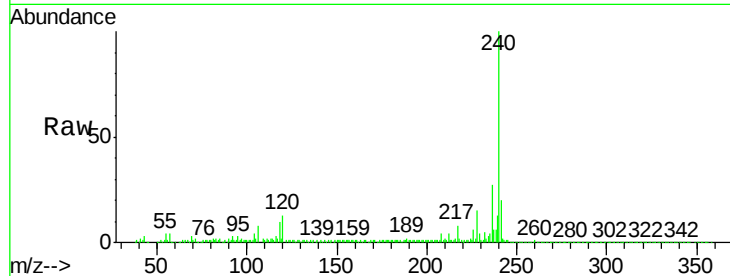




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. 0.01 min  
Lab File: BF121139.D  
Acq: 30 Jul 2020 20:50

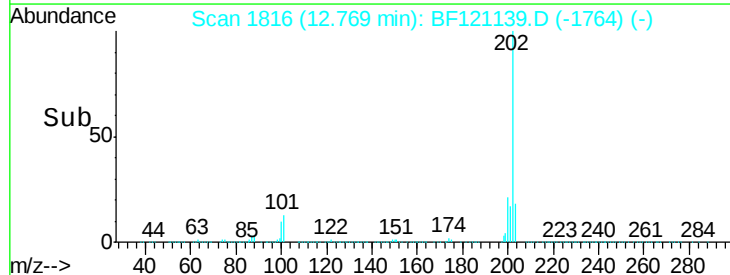
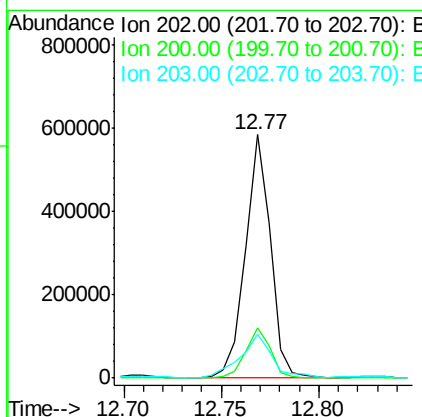
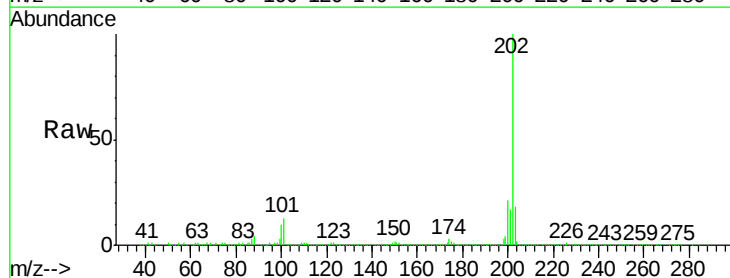
Instrument :  
BNA\_F  
ClientSampleId :  
8

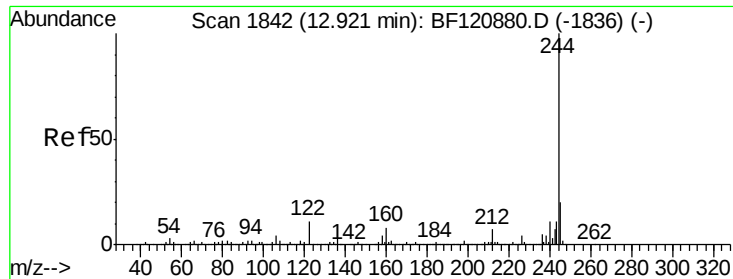
Tot Ion:240 Resp: 342921  
Ion Ratio Lower Upper  
240 100  
120 12.6 9.3 13.9  
236 26.7 21.1 31.7



#78  
Pyrene  
Concen: 21.337 ng  
RT: 12.77 min Scan# 1816  
Delta R.T. 0.01 min  
Lab File: BF121139.D  
Acq: 30 Jul 2020 20:50

Tgt Ion:202 Resp: 517312  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.0 25.6  
203 18.1 14.6 21.8





#79

Terphenyl-d14

Concen: 12.640 ng

RT: 12.91 min Scan# 1840

Delta R.T. 0.00 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

Instrument :

BNA\_F

ClientSampleId :

8

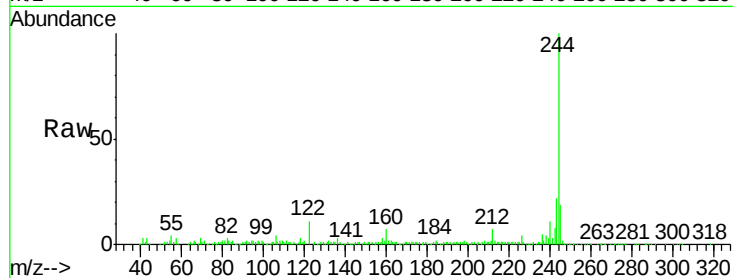
Tot Ion:244 Resp: 199400

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

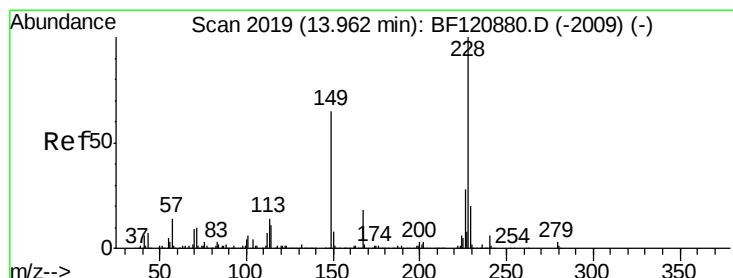
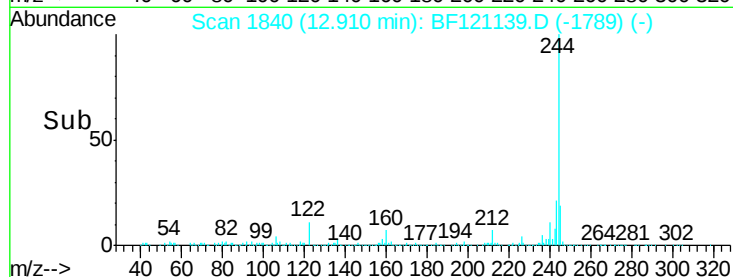
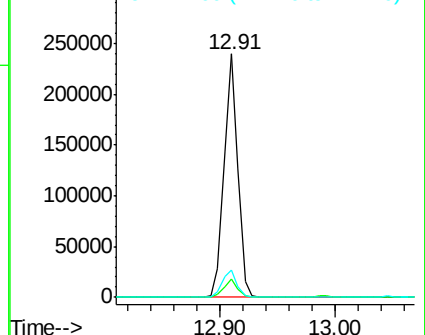
122 11.0 8.3 12.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 12.076 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

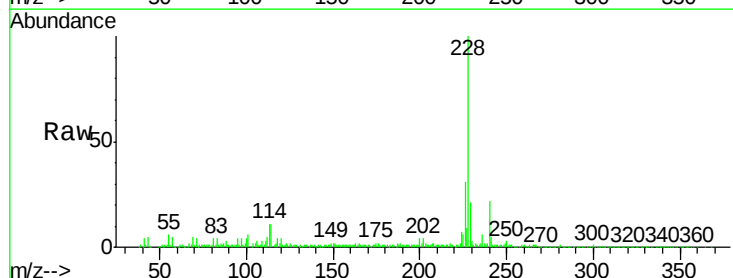
Tgt Ion:228 Resp: 250755

Ion Ratio Lower Upper

228 100

226 30.8 22.6 34.0

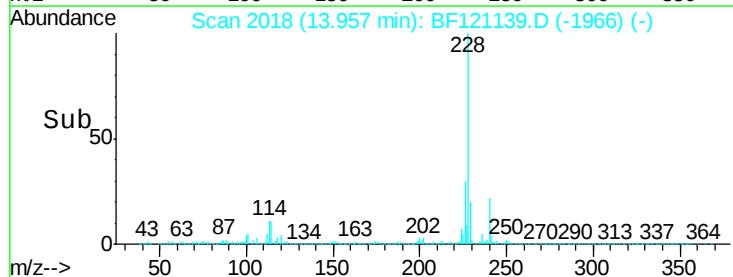
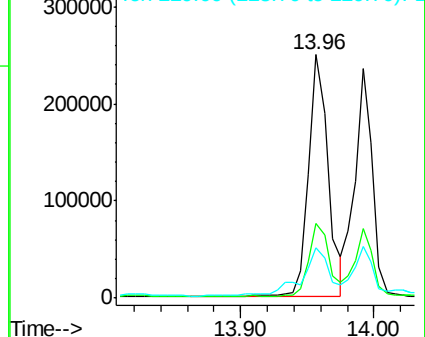
229 20.8 16.1 24.1

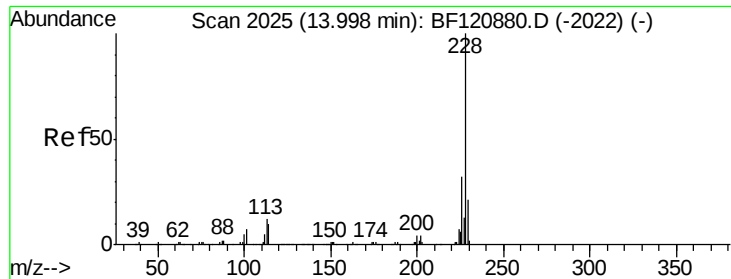


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 9.997 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.00 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

Instrument :

BNA\_F

ClientSampleId :

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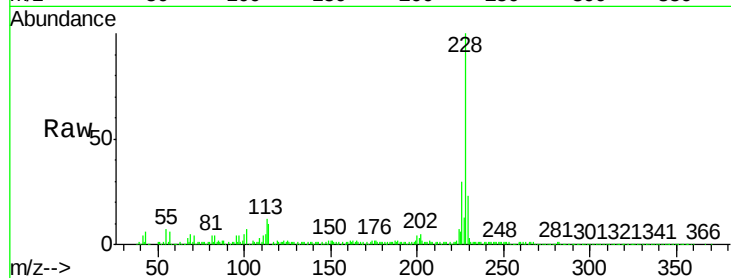
Tot Ion:228 Resp: 218155

Ion Ratio Lower Upper

228 100

226 30.1 25.4 38.0

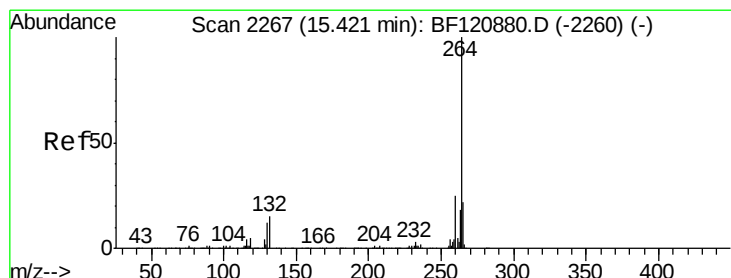
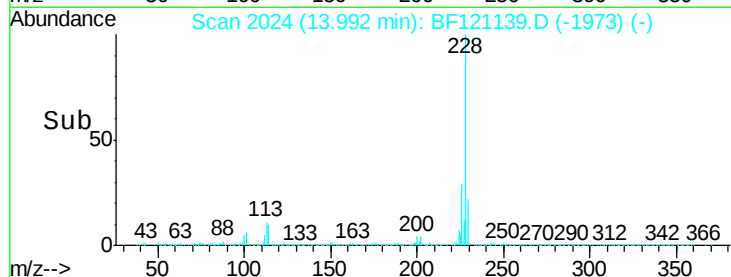
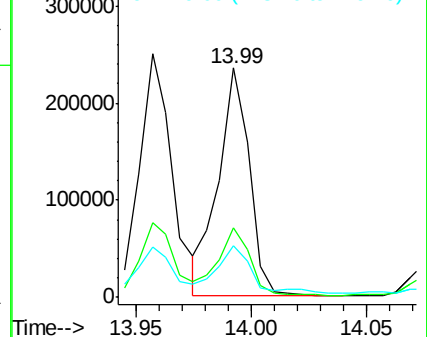
229 22.8 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.43 min Scan# 2268

Delta R.T. 0.02 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

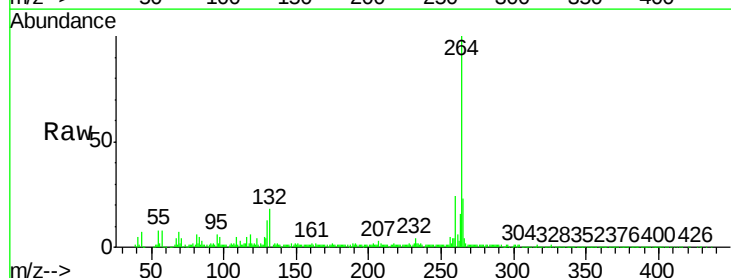
Tgt Ion:264 Resp: 342412

Ion Ratio Lower Upper

264 100

260 24.5 19.9 29.9

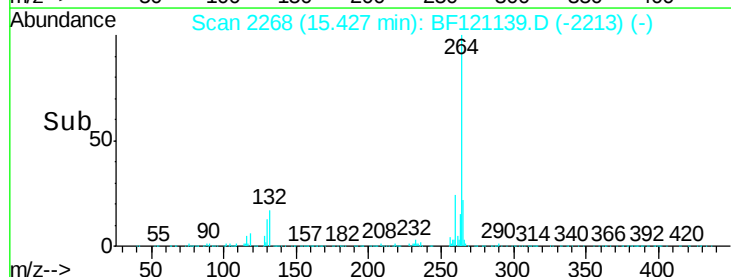
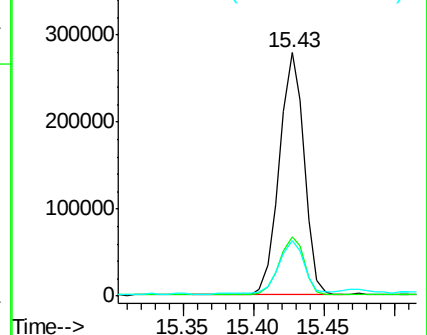
265 22.6 17.8 26.8

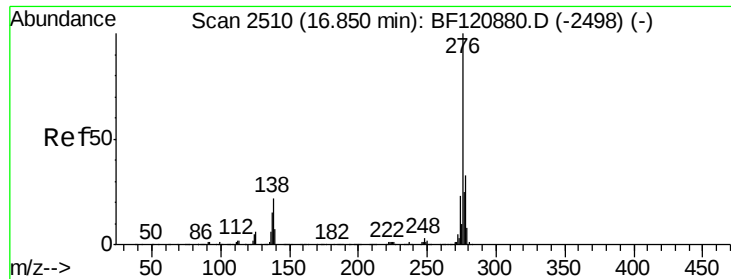


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

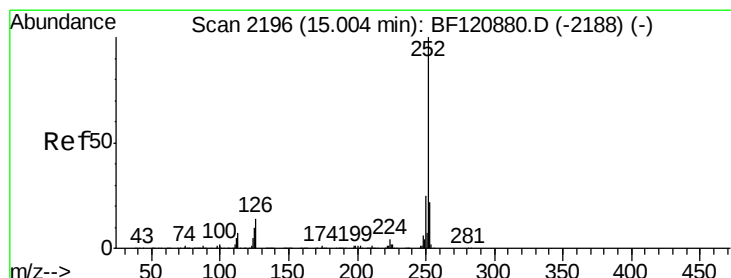
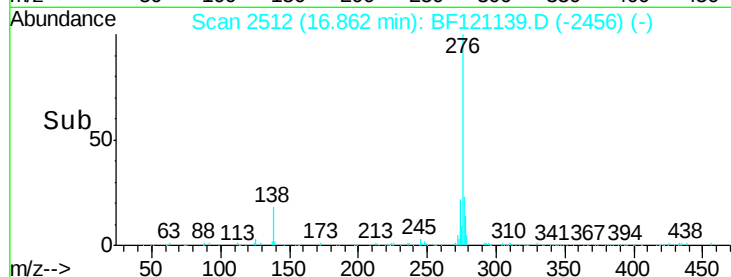
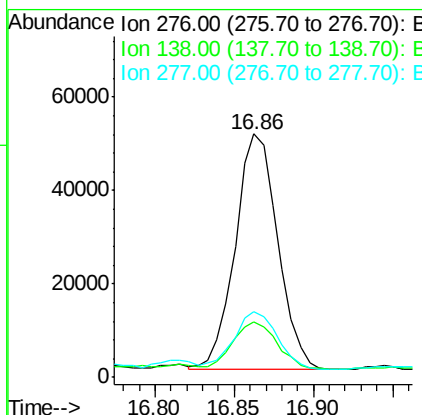
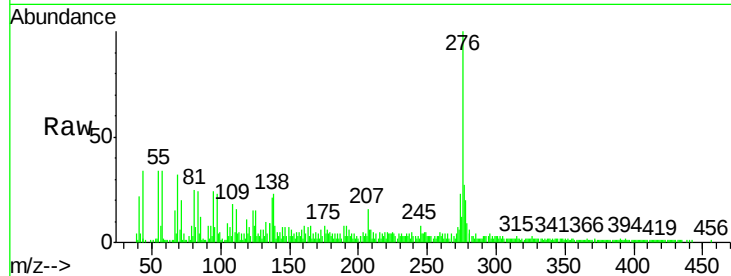




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.948 ng  
 RT: 16.86 min Scan# 2512  
 Delta R.T. 0.03 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

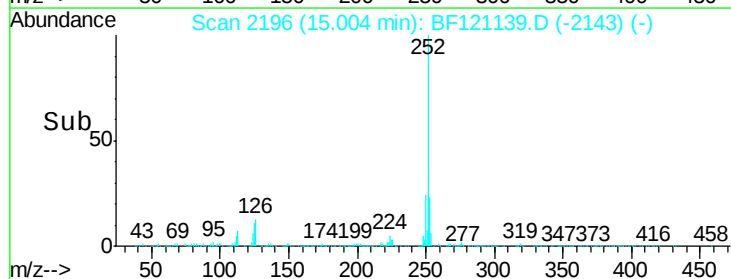
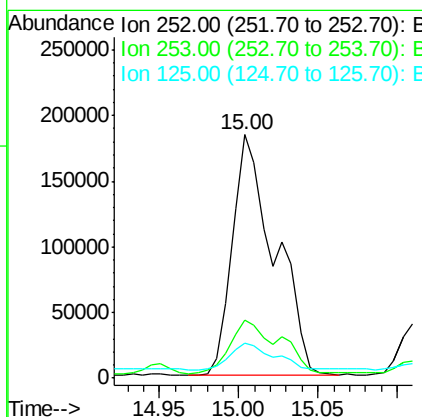
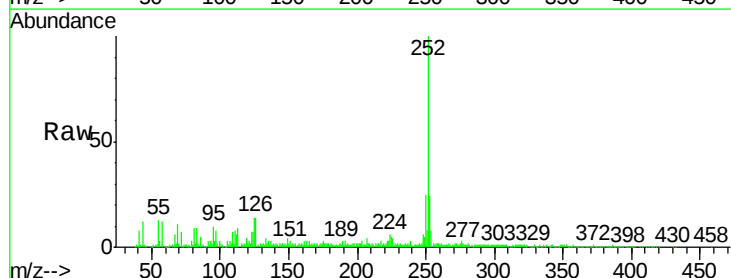
Instrument :  
 BNA\_F  
 ClientSampleId :  
 8

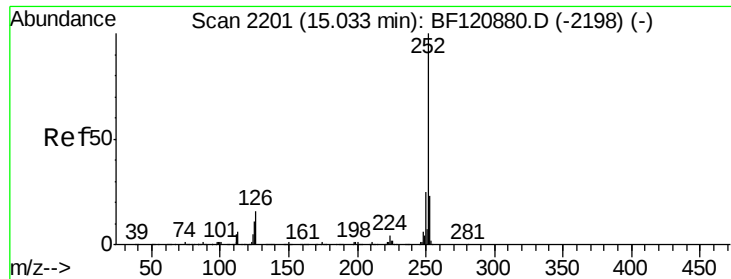
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.2  | 19.3  | 28.9  |
| 277     | 25.5  | 20.1  | 30.1  |



#88  
 Benzo(b)fluoranthene  
 Concen: 16.462 ng  
 RT: 15.00 min Scan# 2196  
 Delta R.T. 0.01 min  
 Lab File: BF121139.D  
 Acq: 30 Jul 2020 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.9  | 26.9  |
| 125     | 14.2  | 8.1   | 12.1  |

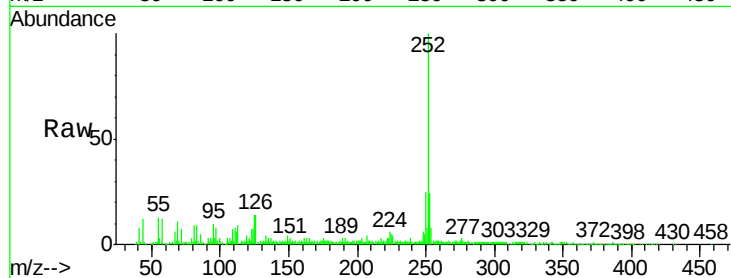




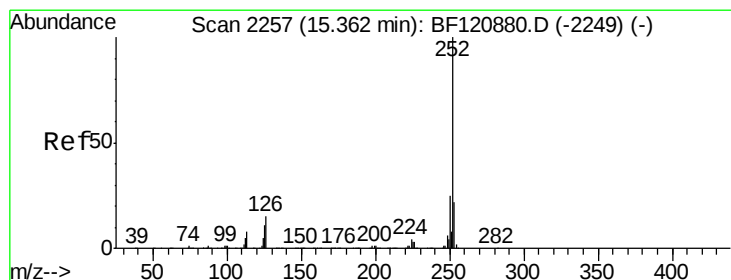
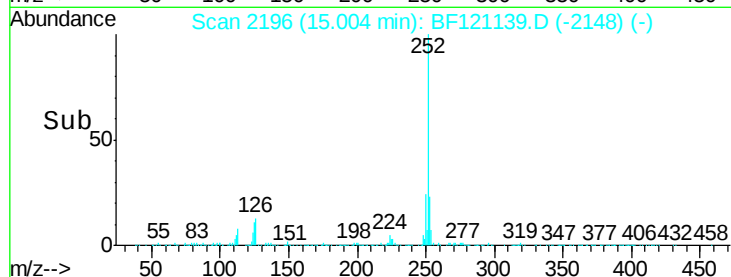
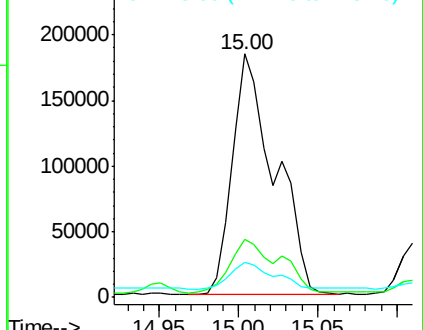
#89  
Benzo(k)fluoranthene  
Concen: 18.051 ng  
RT: 15.00 min Scan# 2196  
Delta R.T. -0.02 min  
Lab File: BF121139.D  
Acq: 30 Jul 2020 20:50

Instrument :  
BNA\_F  
ClientSampleId :  
8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 18.1  | 27.1  |
| 125     | 14.2  | 8.0   | 12.0  |

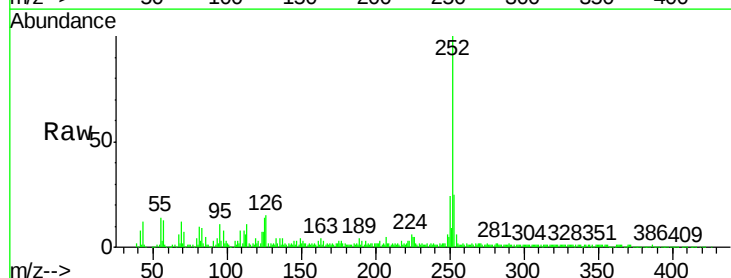


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

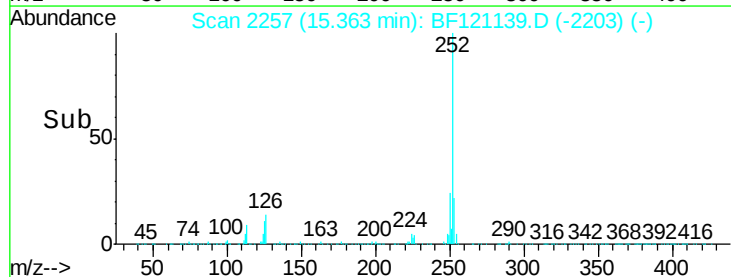
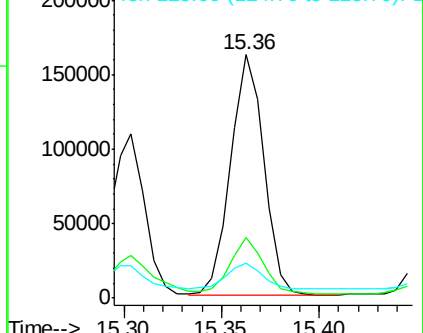


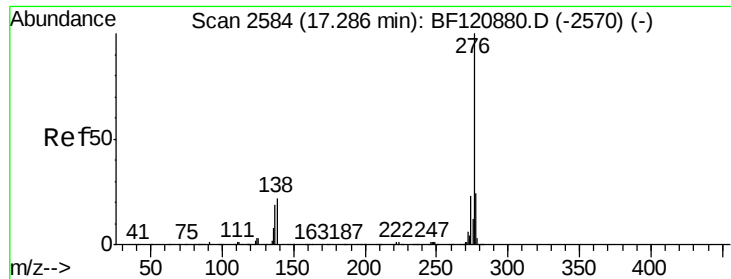
#90  
Benzo(a)pyrene  
Concen: 10.110 ng  
RT: 15.36 min Scan# 2257  
Delta R.T. 0.02 min  
Lab File: BF121139.D  
Acq: 30 Jul 2020 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 18.0  | 27.0  |
| 125     | 14.5  | 9.5   | 14.3  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 4.585 ng

RT: 17.30 min Scan# 2586

Delta R.T. 0.04 min

Lab File: BF121139.D

Acq: 30 Jul 2020 20:50

Instrument :

BNA\_F

ClientSampleId :

8

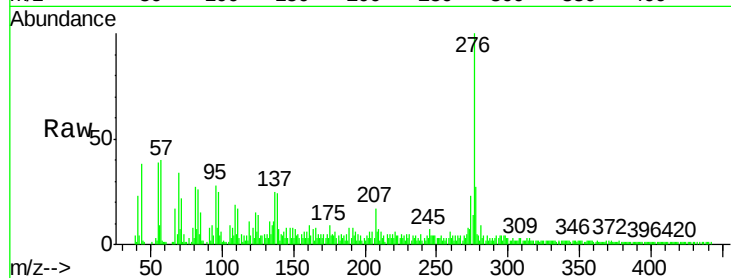
Tot Ion: 276 Resp: 87943

Ion Ratio Lower Upper

276 100

277 27.3 19.4 29.0

138 23.7 17.2 25.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

