

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
 Data File : BF121338.D  
 Acq On : 20 Aug 2020 10:38  
 Operator : JU/CG  
 Sample : L3712-01 5X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHRT-27137

Quant Time: Aug 20 11:10:35 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 20 04:56:10 2020  
 Response via : Initial Calibration

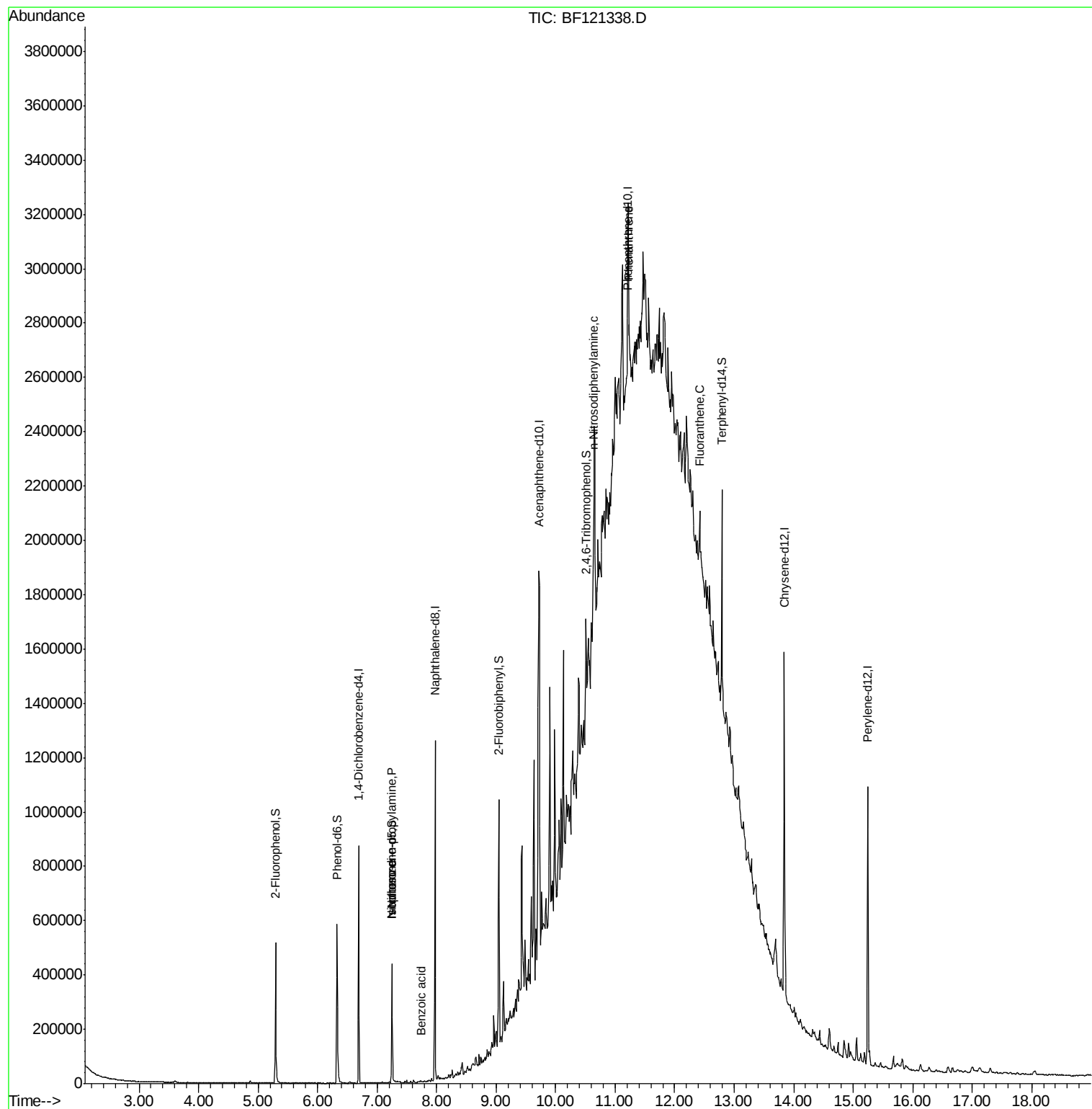
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 141635   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.97  | 136  | 545048   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.72  | 164  | 271919   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.21 | 188  | 414370   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.84 | 240  | 457348   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.24 | 264  | 443599   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 161833   | 18.74     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.33  | 99   | 203213   | 18.43     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 122316   | 12.69     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.51 | 330  | 55135    | 17.40     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.05  | 172  | 248802   | 5.47      | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.79 | 244  | 255358   | 10.91     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.25  | 70   | 15637    | 2.637     | ng    | # 81     |
| 25) Isophorone                 | 7.25  | 82   | 122314   | 6.974     | ng    | # 65     |
| 32) Benzoic acid               | 7.73  | 122  | 856      | 7.195     | ng    | # 74     |
| 55) Dibenzofuran               | 9.93  | 168  | 3126     | Below Cal | #     | 1        |
| 58) Fluorene                   | 10.27 | 166  | 4070     | Below Cal | #     | 23       |
| 61) 4-Chlorophenyl-phenylether | 10.28 | 204  | 4124     | Below Cal | #     | 24       |
| 66) n-Nitrosodiphenylamine     | 10.64 | 169  | 33084    | 2.588     | ng    | 88       |
| 71) Phenanthrene               | 11.23 | 178  | 45303    | 2.112     | ng    | # 67     |
| 75) Fluoranthene               | 12.42 | 202  | 64123    | 2.755     | ng    | 91       |

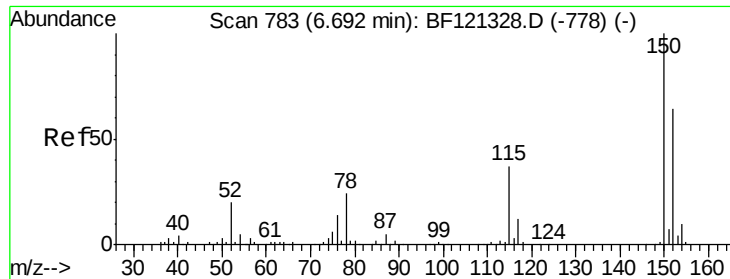
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.69 min Scan# 783

Delta R.T. -0.00 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Instrument :

BNA\_F

ClientSampleId :

CHRT-27137

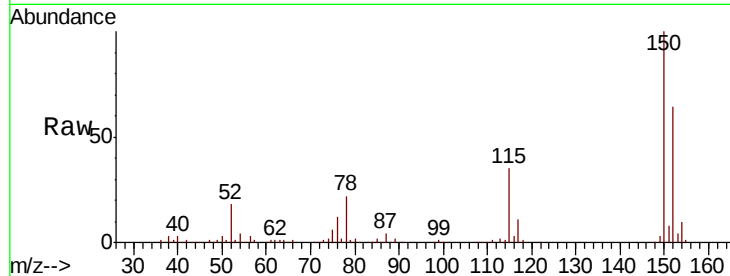
Tot Ion:152 Resp: 141635

Ion Ratio Lower Upper

152 100

150 156.0 124.8 187.2

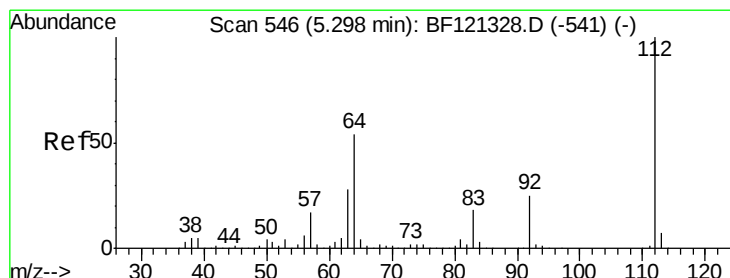
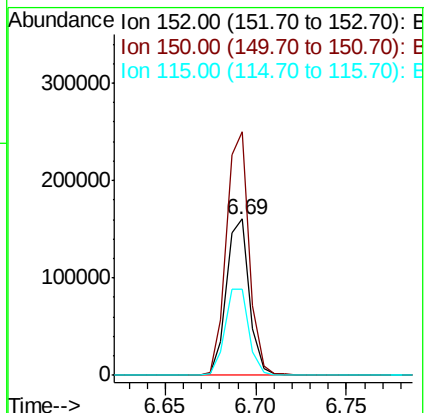
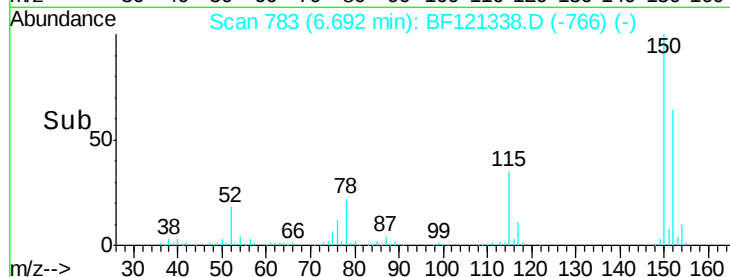
115 55.0 46.1 69.1



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: 18.736 ng

RT: 5.29 min Scan# 545

Delta R.T. -0.01 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

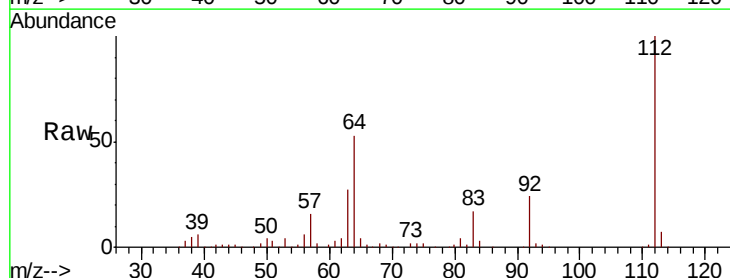
Tgt Ion:112 Resp: 161833

Ion Ratio Lower Upper

112 100

64 52.6 43.5 65.3

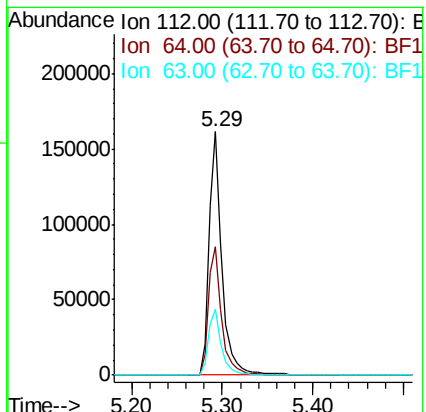
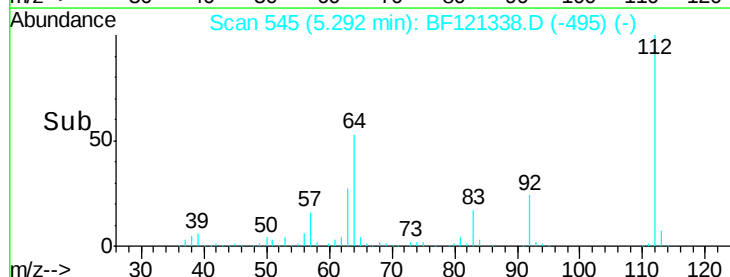
63 27.0 22.0 33.0



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: 18.429 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Instrument :

BNA\_F

ClientSampleId :

CHRT-27137

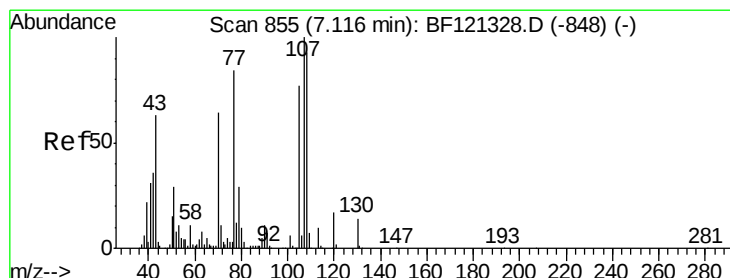
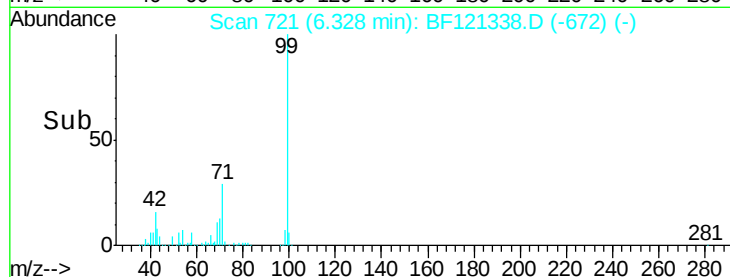
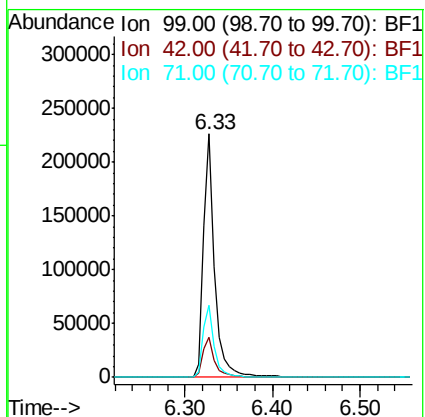
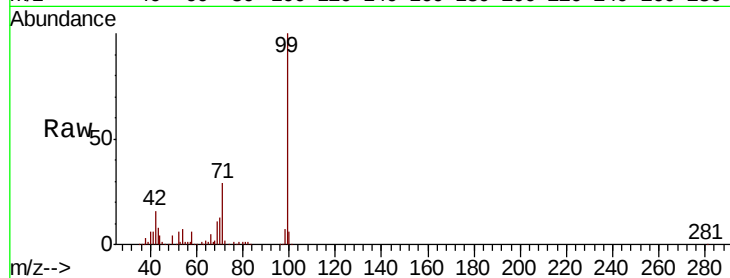
Tot Ion: 99 Resp: 203213

Ion Ratio Lower Upper

99 100

42 16.3 13.5 20.3

71 29.5 25.2 37.8



#19

n-Nitroso-di-n-propylamine

Concen: 2.637 ng

RT: 7.25 min Scan# 878

Delta R.T. 0.14 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Tgt Ion: 70 Resp: 15637

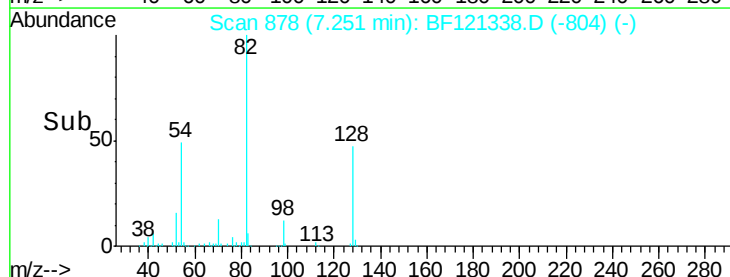
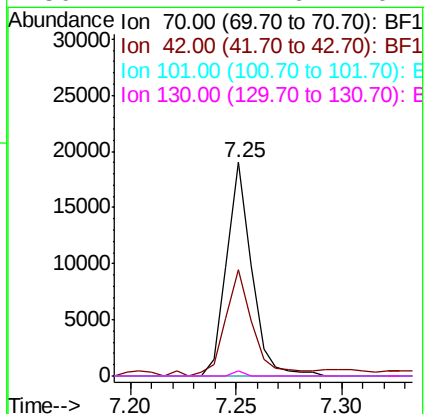
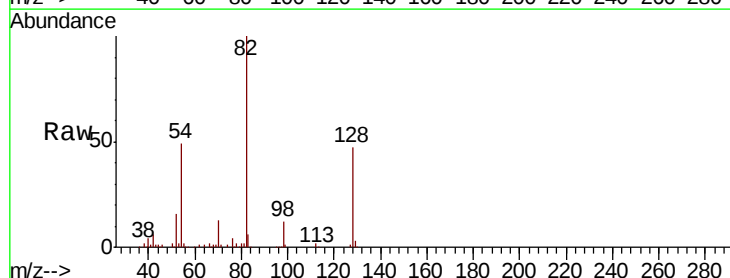
Ion Ratio Lower Upper

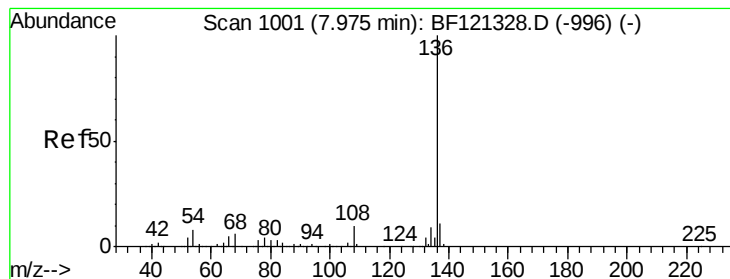
70 100

42 49.5 45.2 67.8

101 0.0 7.7 11.5#

130 2.2 17.6 26.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Instrument :

BNA\_F

ClientSampleId :

CHRT-27137

Tot Ion:136 Resp: 545048

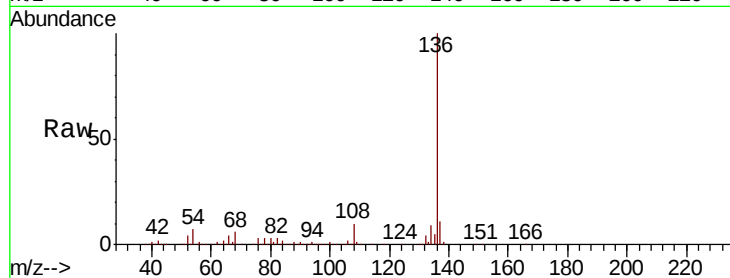
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 7.0 6.1 9.1

68 5.7 5.0 7.4

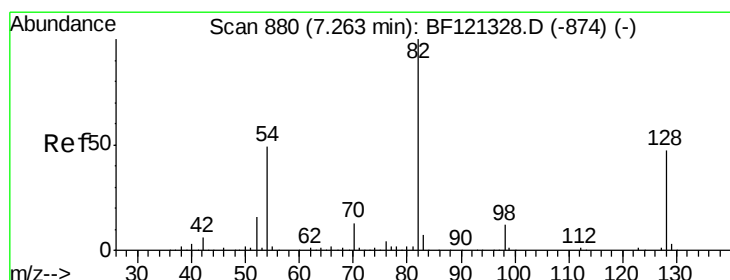
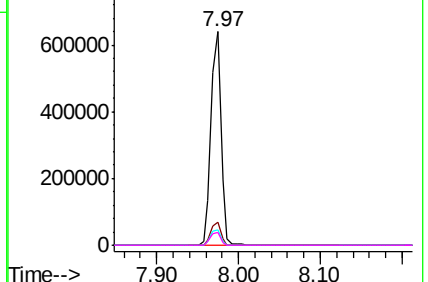
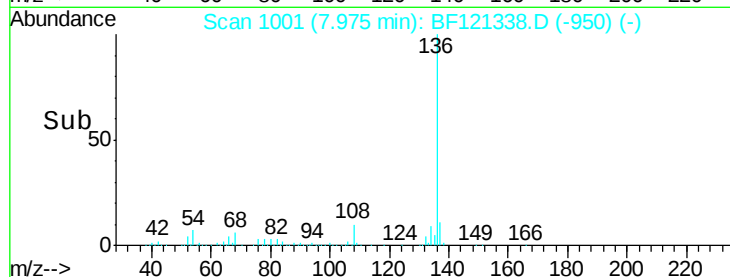


Abundance Ion 136.00 (135.70 to 136.70): E

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: 12.692 ng

RT: 7.25 min Scan# 878

Delta R.T. -0.01 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

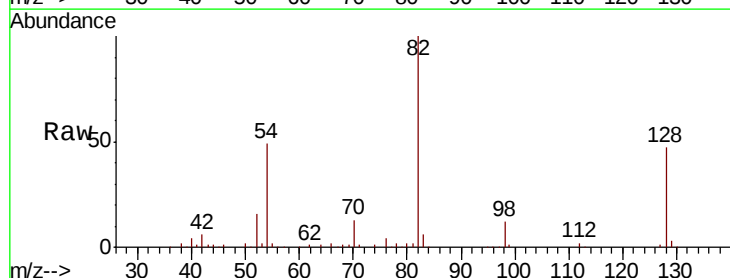
Tgt Ion: 82 Resp: 122316

Ion Ratio Lower Upper

82 100

128 47.0 37.9 56.9

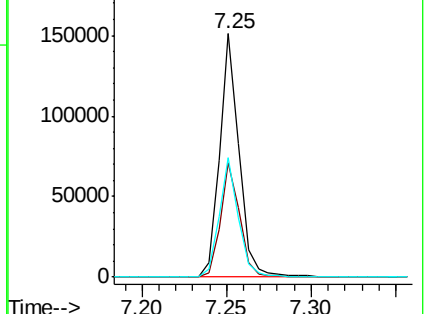
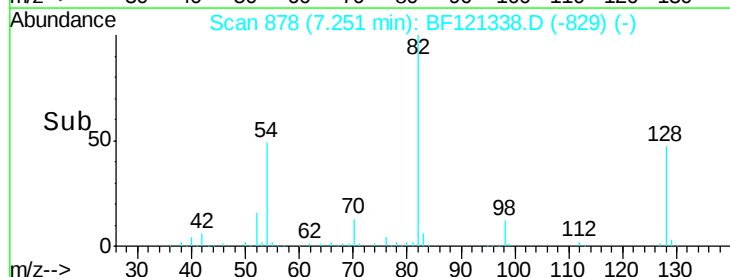
54 49.2 39.0 58.4

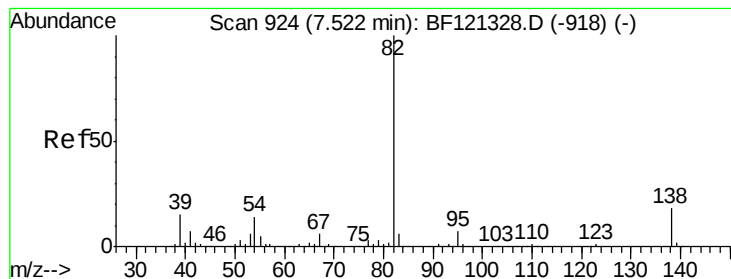


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 6.974 ng

RT: 7.25 min Scan# 878

Delta R.T. -0.27 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Instrument :

BNA\_F

ClientSampleId :

CHRT-27137

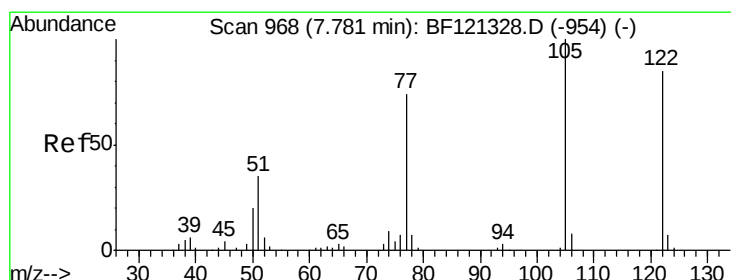
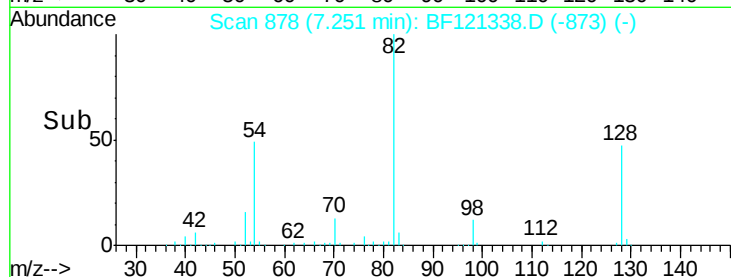
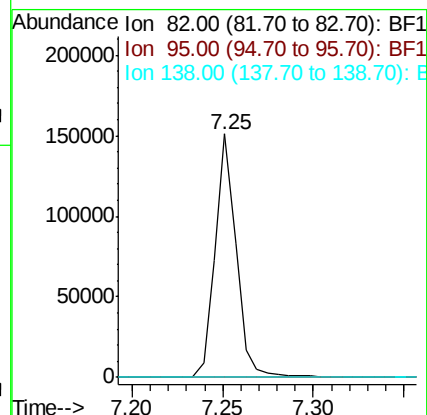
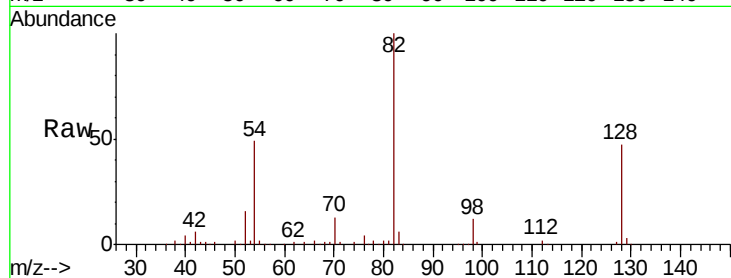
Tot Ion: 82 Resp: 122314

Ion Ratio Lower Upper

82 100

95 0.2 5.3 7.9#

138 0.0 14.6 21.8#



#32

Benzoic acid

Concen: 7.195 ng

RT: 7.73 min Scan# 959

Delta R.T. -0.05 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

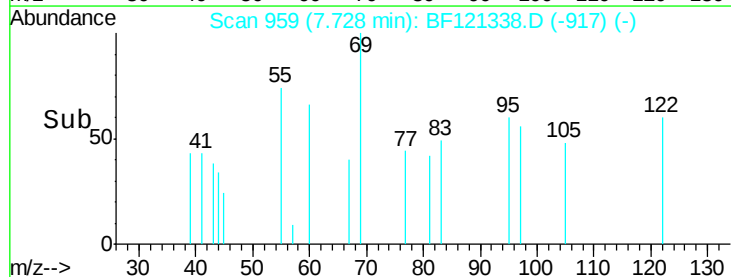
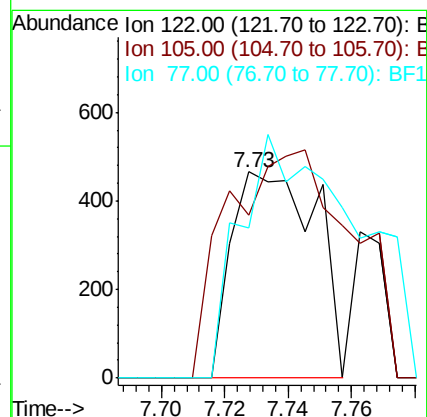
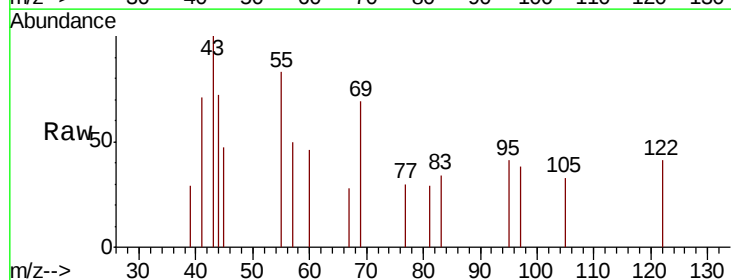
Tgt Ion: 122 Resp: 856

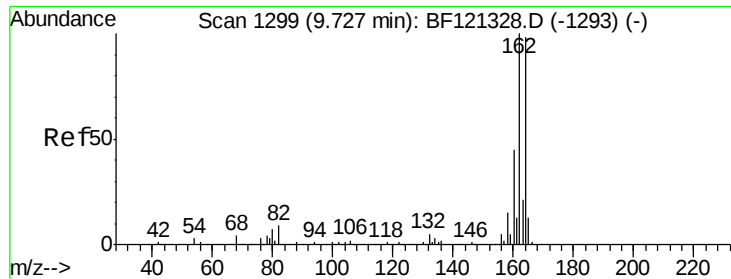
Ion Ratio Lower Upper

122 100

105 79.1 96.7 136.7#

77 72.9 66.7 106.7

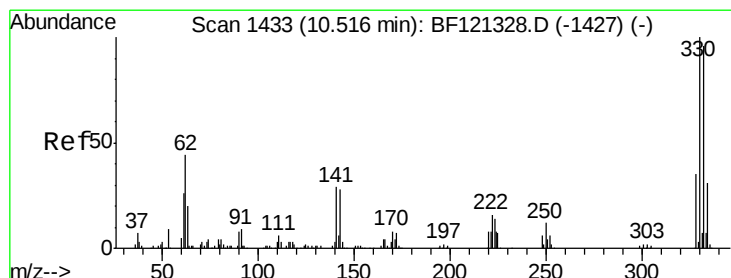
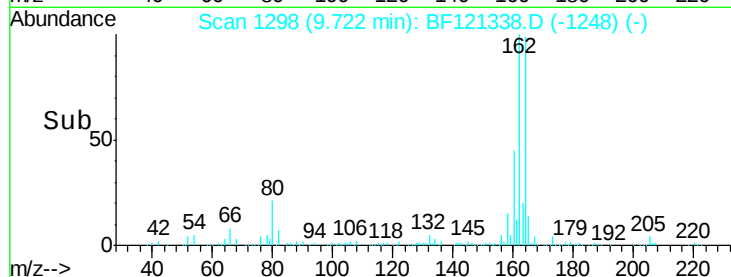
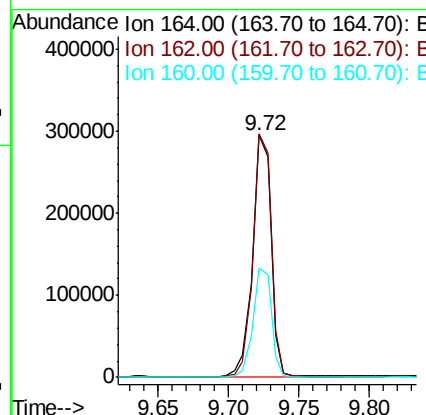
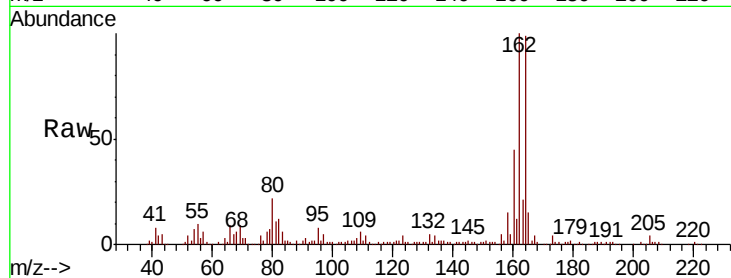




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.72 min Scan# 1298  
 Delta R.T. -0.01 min  
 Lab File: BF121338.D  
 Acq: 20 Aug 2020 10:38

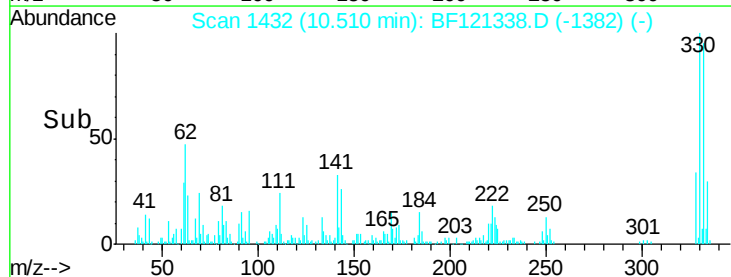
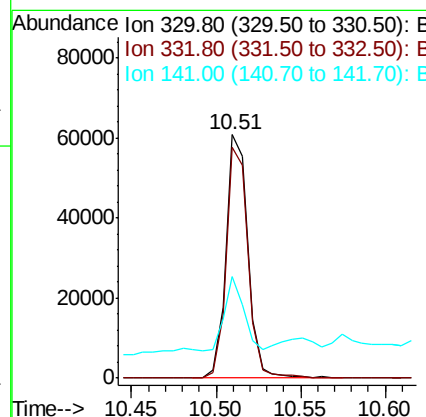
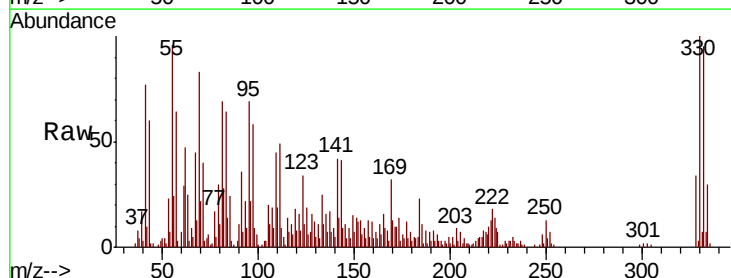
Instrument :  
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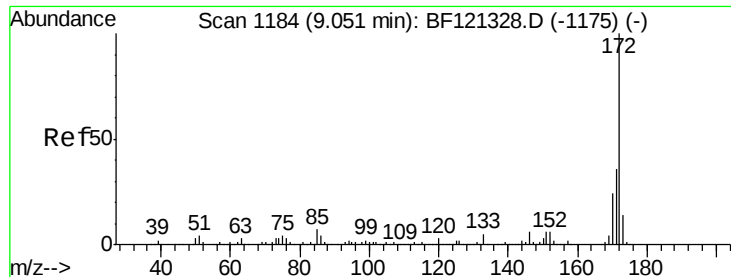
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.6 | 81.7  | 122.5 |
| 160     | 44.9  | 37.0  | 55.4  |



#42  
 2,4,6-Tribromophenol  
 Concen: 17.400 ng  
 RT: 10.51 min Scan# 1432  
 Delta R.T. -0.01 min  
 Lab File: BF121338.D  
 Acq: 20 Aug 2020 10:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.2  | 76.9  | 115.3 |
| 141     | 26.3  | 22.8  | 34.2  |

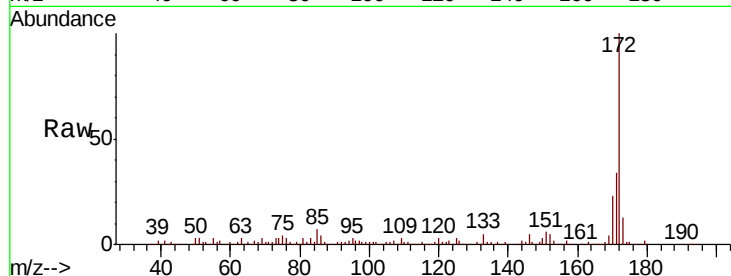




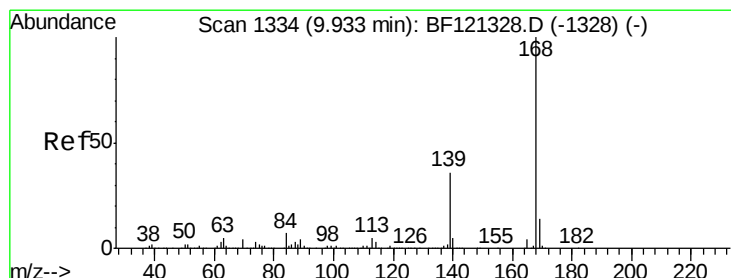
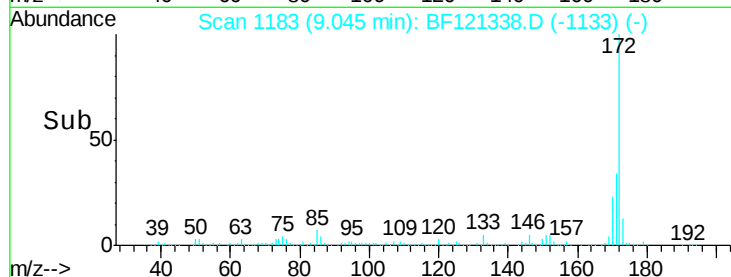
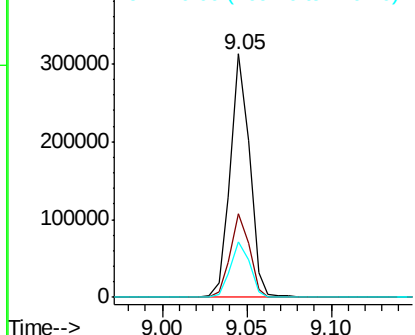
#45  
2-Fluorobiphenyl  
Concen: 5.469 ng  
RT: 9.05 min Scan# 1183  
Delta R.T. -0.01 min  
Lab File: BF121338.D  
Acq: 20 Aug 2020 10:38

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-27137

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:172 | Resp: | 248802    |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 34.2  | 29.0 43.6 |
| 170         | 22.9  | 19.4 29.2 |

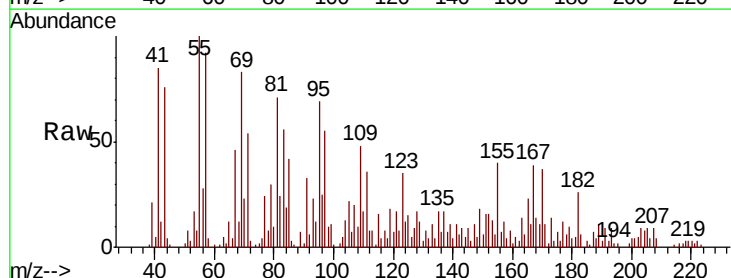


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

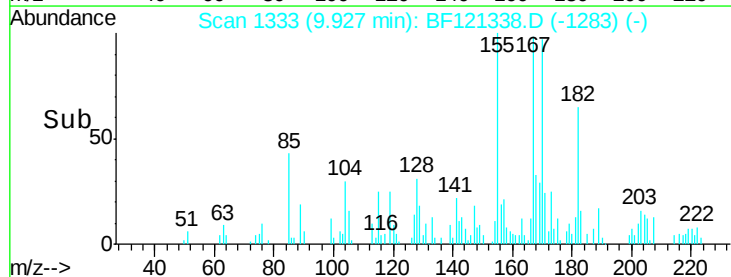
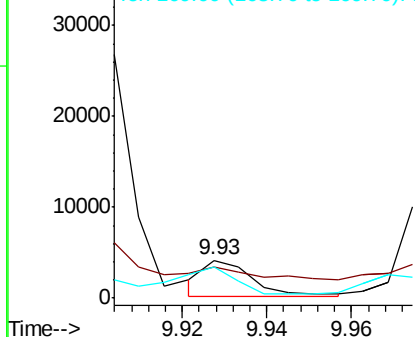


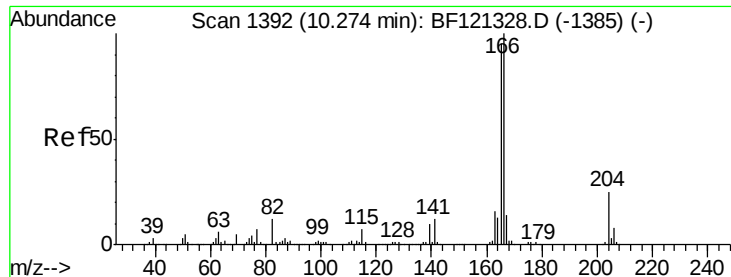
#55  
Dibenzofuran  
Concen: Below Cal  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BF121338.D  
Acq: 20 Aug 2020 10:38

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:168 | Resp: | 3126       |
| Ion Ratio   | Lower | Upper      |
| 168         | 100   |            |
| 139         | 81.0  | 29.1 43.7# |
| 169         | 81.3  | 11.0 16.6# |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: Below Cal

RT: 10.27 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Instrument :

BNA\_F

ClientSampleId :

CHRT-27137

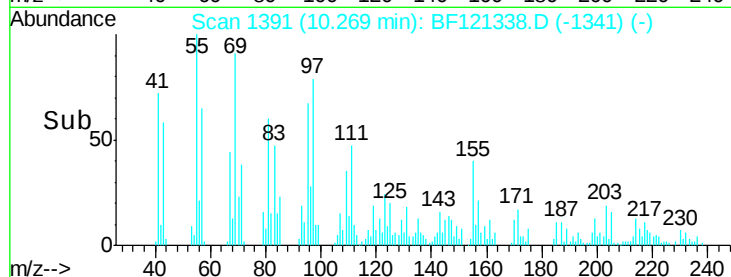
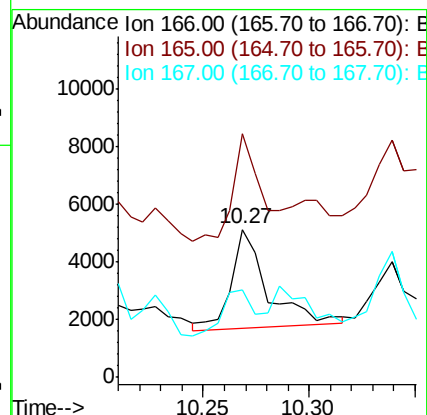
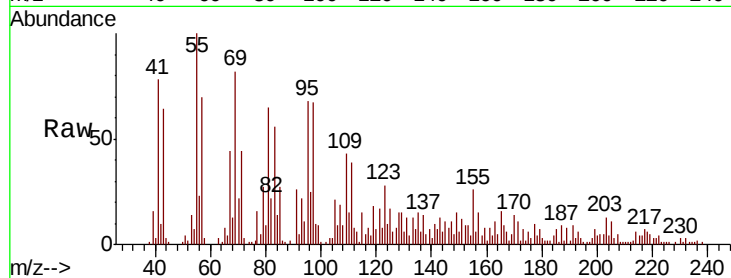
Tot Ion:166 Resp: 4070

Ion Ratio Lower Upper

166 100

165 164.8 75.8 113.8#

167 59.4 11.0 16.4#



#61

4-Chlorophenyl-phenylether

Concen: Below Cal

RT: 10.28 min Scan# 1393

Delta R.T. 0.01 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

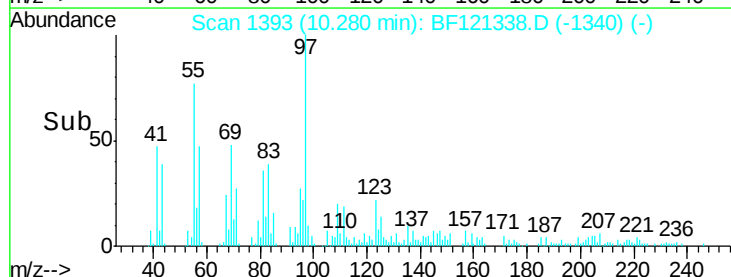
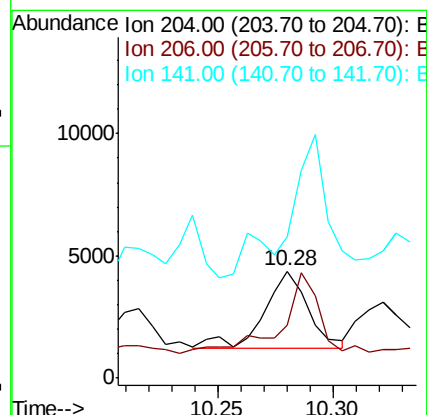
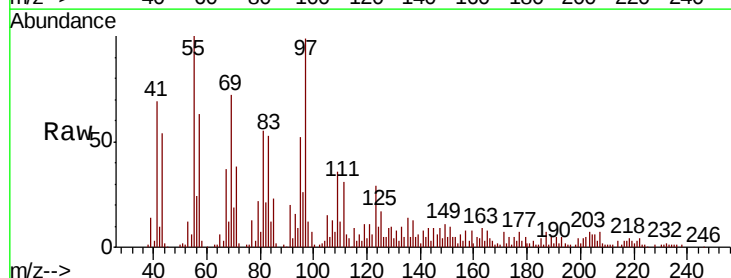
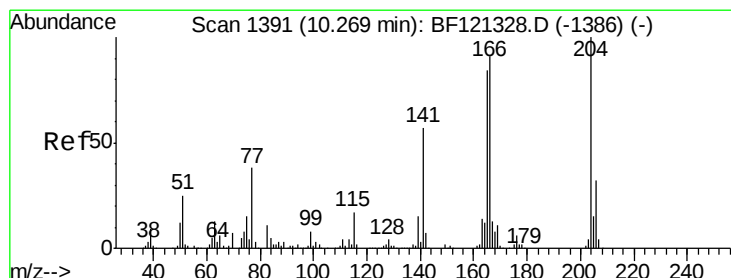
Tgt Ion:204 Resp: 4124

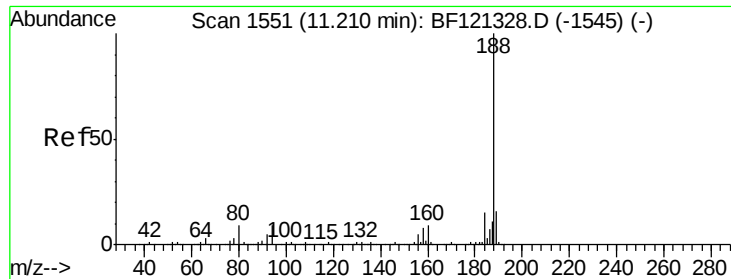
Ion Ratio Lower Upper

204 100

206 49.0 25.9 38.9#

141 132.3 45.5 68.3#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.21 min Scan# 1551

Delta R.T. -0.00 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Instrument :

BNA\_F

ClientSampleId :

CHRT-27137

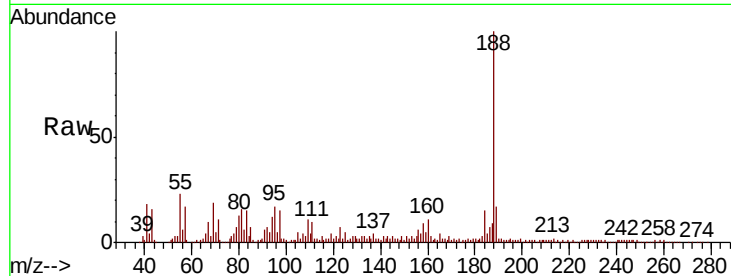
Tot Ion:188 Resp: 414370

Ion Ratio Lower Upper

188 100

94 11.9 7.2 10.8#

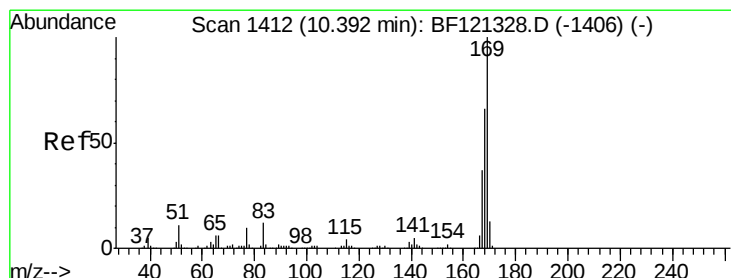
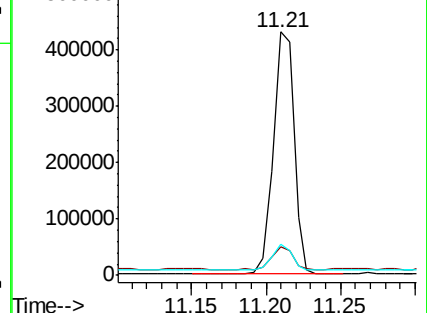
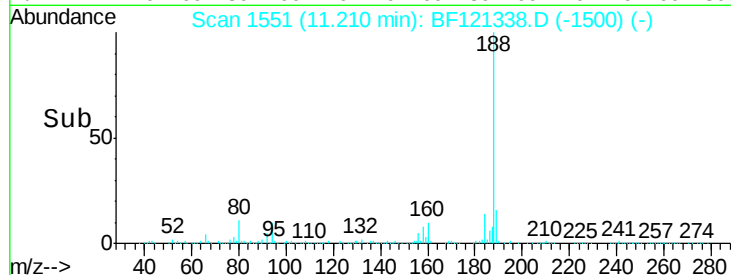
80 12.6 7.4 11.0#



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



#66

n-Nitrosodiphenylamine

Concen: 2.588 ng

RT: 10.64 min Scan# 1454

Delta R.T. 0.25 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

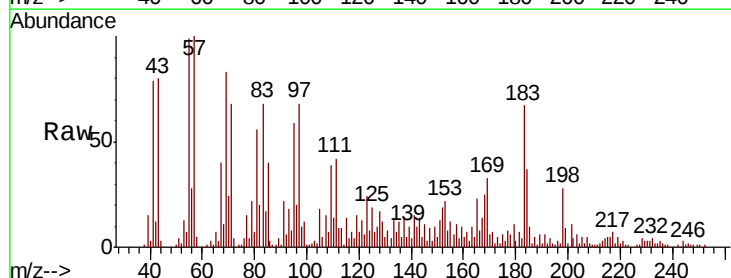
Tgt Ion:169 Resp: 33084

Ion Ratio Lower Upper

169 100

168 76.3 53.0 79.6

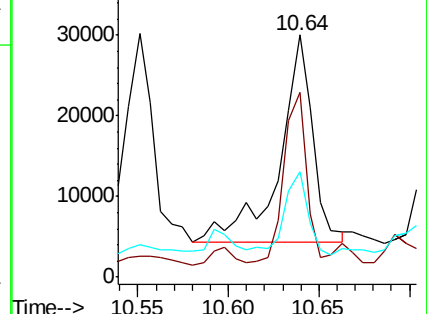
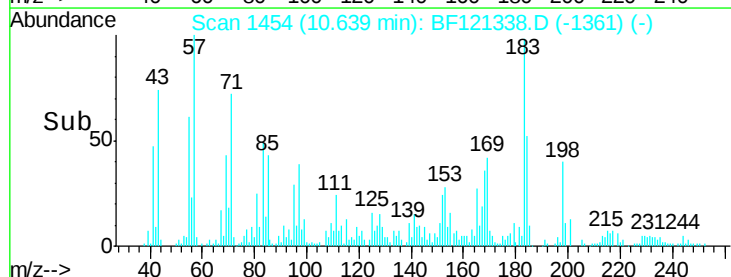
167 43.7 29.5 44.3

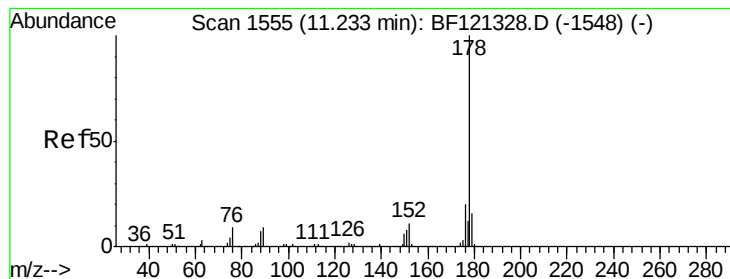


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#71

Phenanthrene

Concen: 2.112 ng

RT: 11.23 min Scan# 1555

Delta R.T. 0.00 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

Instrument :

BNA\_F

ClientSampleId :

CHRT-27137

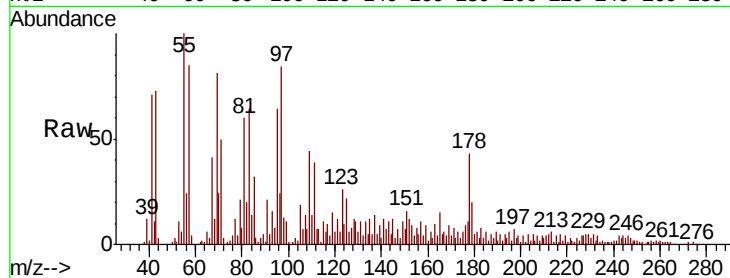
Tot Ion:178 Resp: 45303

Ion Ratio Lower Upper

178 100

176 21.7 16.0 24.0

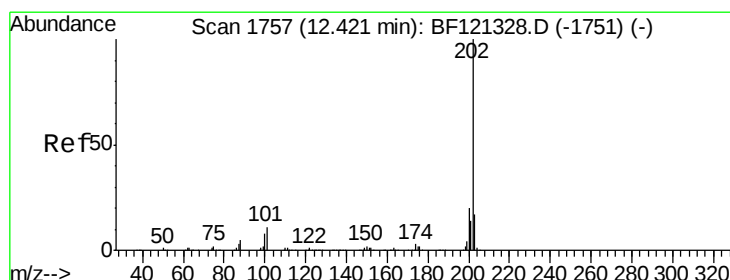
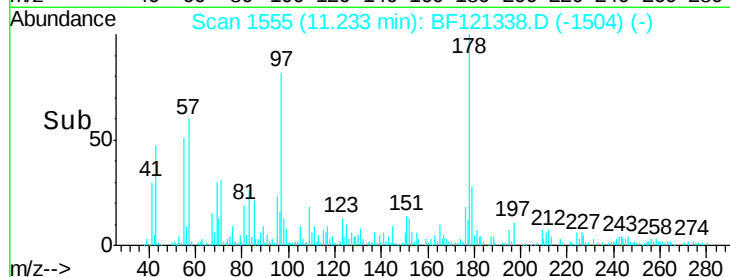
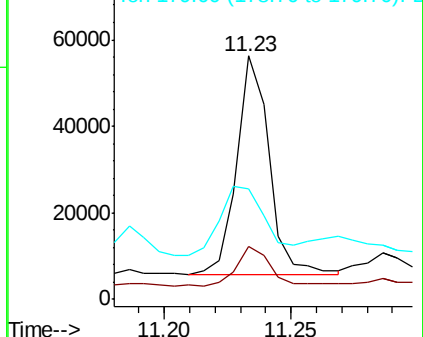
179 45.5 12.8 19.2#



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: 2.755 ng

RT: 12.42 min Scan# 1757

Delta R.T. 0.00 min

Lab File: BF121338.D

Acq: 20 Aug 2020 10:38

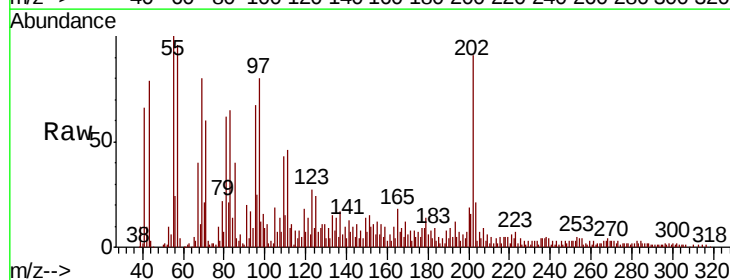
Tgt Ion:202 Resp: 64123

Ion Ratio Lower Upper

202 100

101 12.3 0.0 30.6

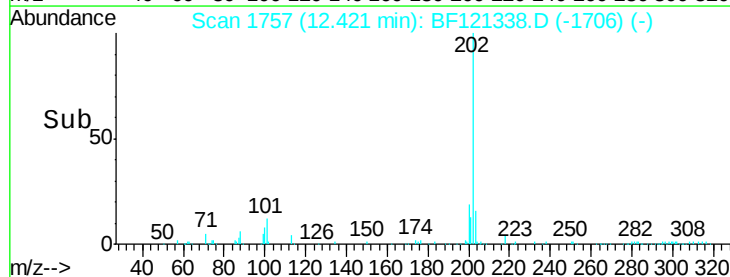
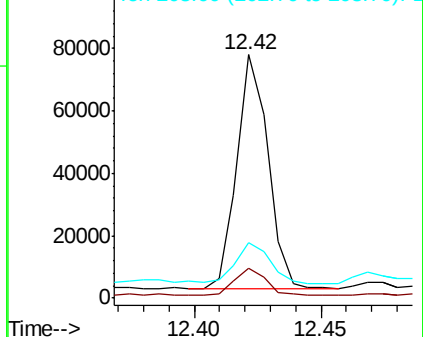
203 22.7 0.0 37.5

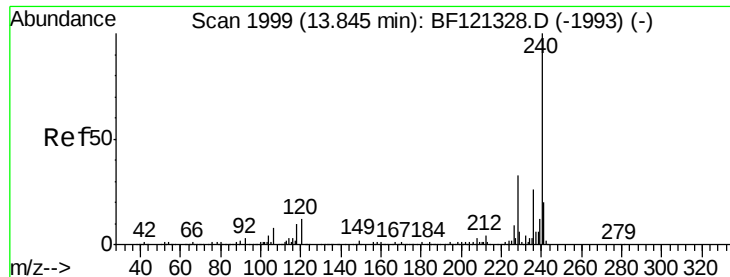


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

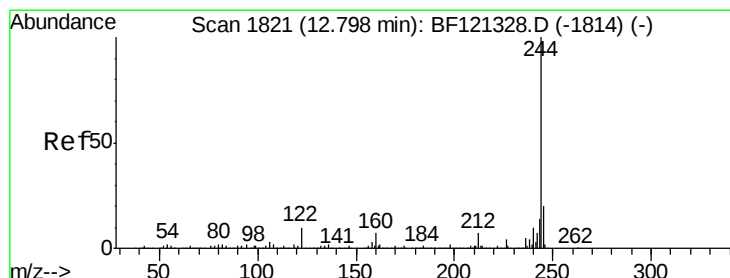
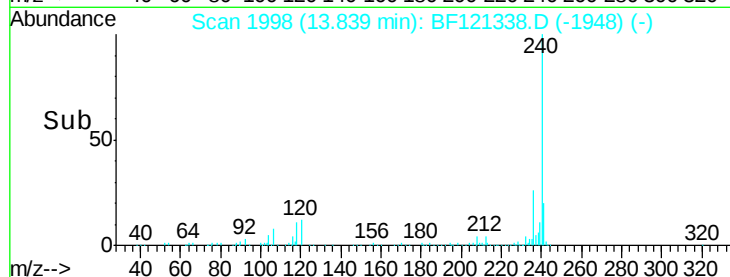
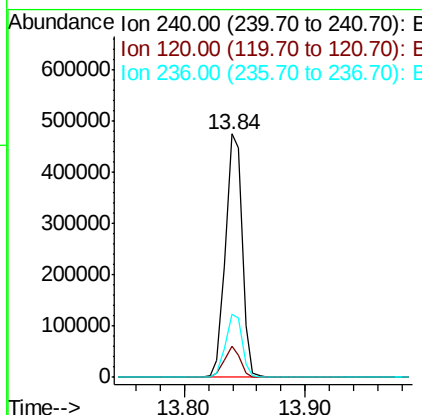
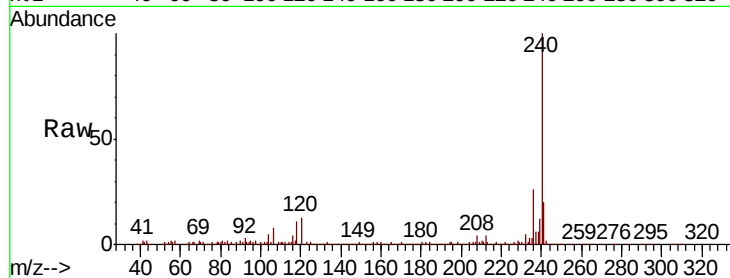




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.84 min Scan# 1998  
Delta R.T. -0.01 min  
Lab File: BF121338.D  
Acq: 20 Aug 2020 10:38

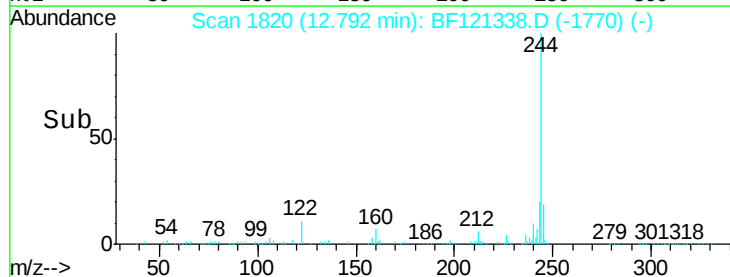
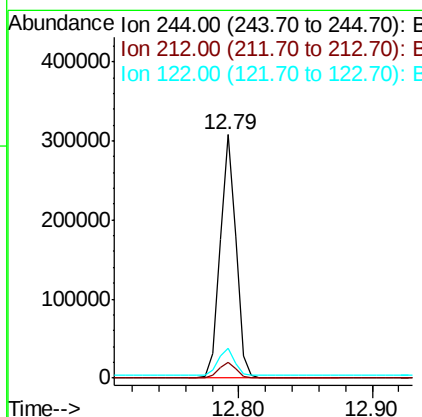
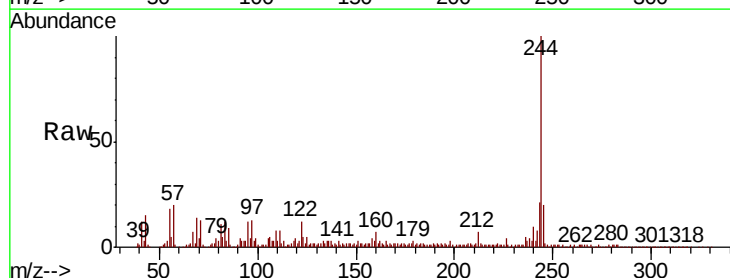
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-27137

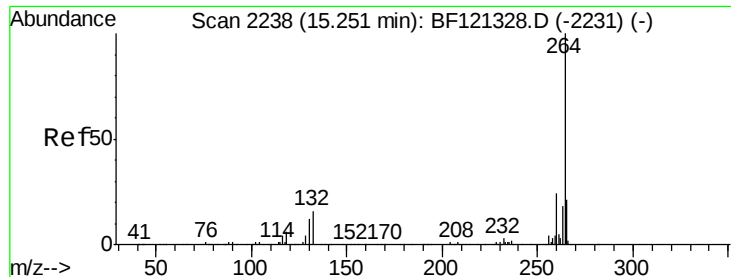
Tot Ion:240 Resp: 457348  
Ion Ratio Lower Upper  
240 100  
120 12.8 9.6 14.4  
236 26.2 20.6 31.0



#79  
Terphenyl-d14  
Concen: 10.911 ng  
RT: 12.79 min Scan# 1820  
Delta R.T. -0.01 min  
Lab File: BF121338.D  
Acq: 20 Aug 2020 10:38

Tgt Ion:244 Resp: 255358  
Ion Ratio Lower Upper  
244 100  
212 6.7 5.4 8.0  
122 12.2 7.8 11.8#





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.24 min Scan# 2237  
Delta R.T. -0.01 min  
Lab File: BF121338.D  
Acq: 20 Aug 2020 10:38

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-27137

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.5  | 29.3  |
| 265     | 21.6  | 17.1  | 25.7  |

