

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081519\  
 Data File : BF116281.D  
 Acq On : 15 Aug 2019 16:08  
 Operator : HP/JU  
 Sample : K4329-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 16 03:08:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 2019  
 Response via : Initial Calibration

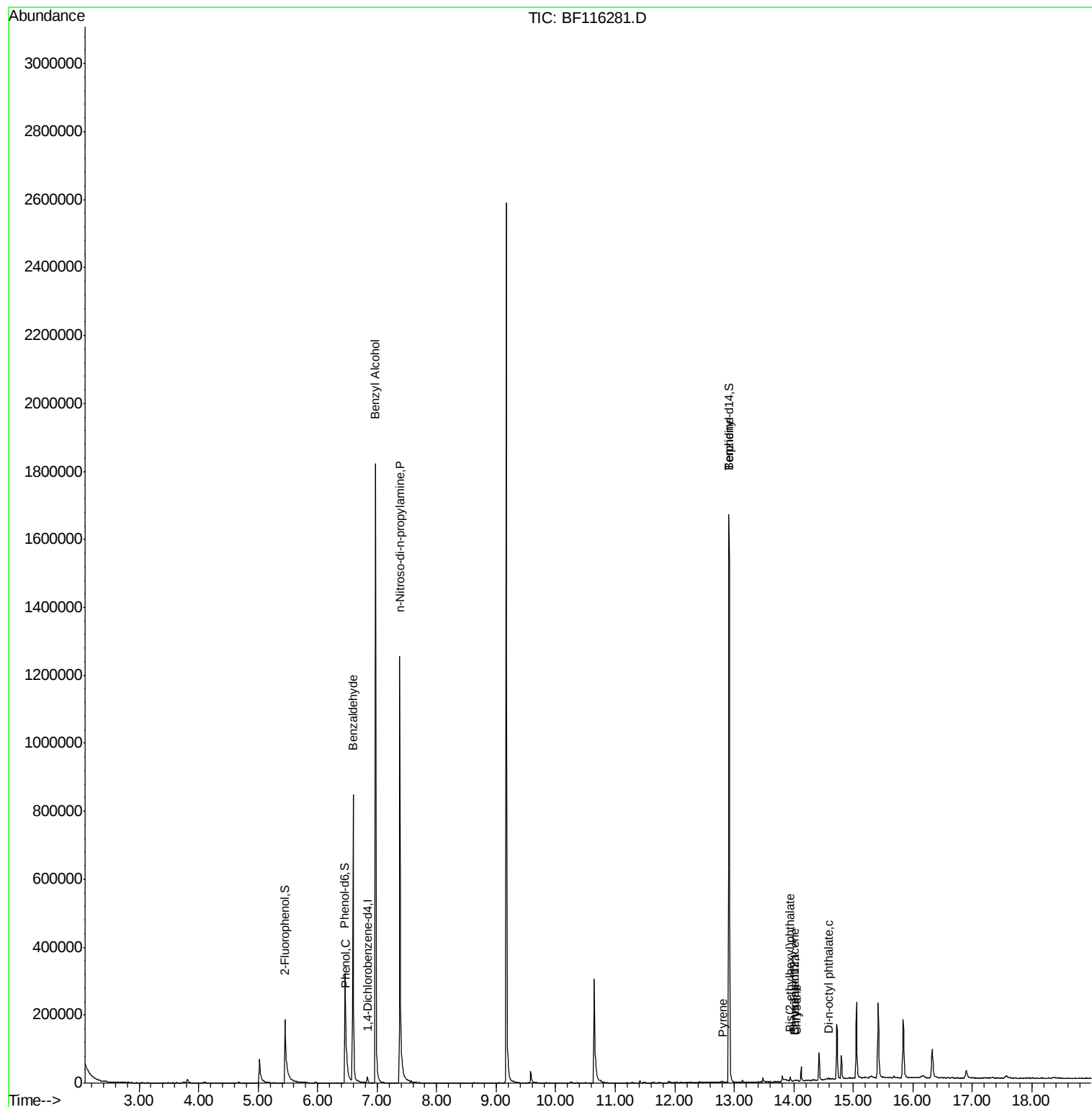
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 4742     | 20.00   | ng    | -0.01    |
| 21) Naphthalene-d8             | 0.00  | 136  | 0        | 0.00    | ng    | -8.13    |
| 39) Acenaphthene-d10           | 0.00  | 164  | 0        | 0.00    | ng    | -9.89    |
| 64) Phenanthrene-d10           | 0.00  | 188  | 0        | 0.00    | ng    | -11.37   |
| 76) Chrysene-d12               | 14.02 | 240  | 1705     | 20.00   | ng    | 0.00     |
| 87) Perylene-d12               | 0.00  | 264  | 0        | 0.00    | ng    | -15.47   |
| System Monitoring Compounds    |       |      |          |         |       |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 131641   | 464.73  | ng    | -0.02    |
| 7) Phenol-d6                   | 6.46  | 99   | 216372   | 605.43  | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.38  | 82   | 488331   | 0.00    | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol       | 10.65 | 330  | 65521    | 0.00    | ng    | -0.03    |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 852395   | 0.00    | ng    | -0.04    |
| 79) Terphenyl-d14              | 12.91 | 244  | 613738   | 7585.03 | ng    | -0.04    |
| Target Compounds               |       |      |          |         |       |          |
| 9) Benzaldehyde                | 6.59  | 77   | 6584     | 26.700  | ng    | # 72     |
| 10) Phenol                     | 6.48  | 94   | 7195     | 17.096  | ng    | # 71     |
| 15) Benzyl Alcohol             | 6.97  | 79   | 8362     | 30.831  | ng    | # 47     |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70   | 63779    | 287.988 | ng    | # 80     |
| 77) Benzidine                  | 12.91 | 184  | 8102     | 140.655 | ng    | # 96     |
| 78) Pyrene                     | 12.80 | 202  | 956      | 7.438   | ng    | # 56     |
| 81) Benzo(a)anthracene         | 14.01 | 228  | 899      | 8.249   | ng    | # 50     |
| 83) Chrysene                   | 14.04 | 228  | 2510     | 23.724  | ng    | # 82     |
| 84) Bis(2-ethylhexyl)phthalate | 13.94 | 149  | 3997     | 56.575  | ng    | # 98     |
| 85) Di-n-octyl phthalate       | 14.59 | 149  | 431      | 3.841   | ng    | # 77     |

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

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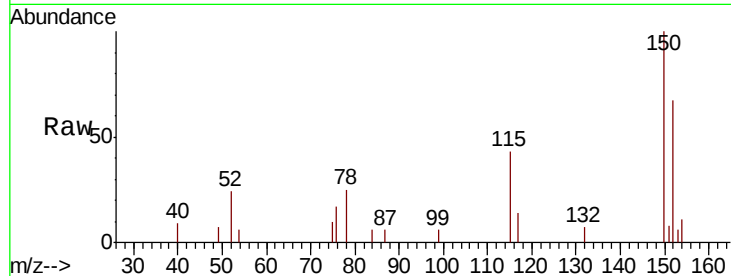


#1

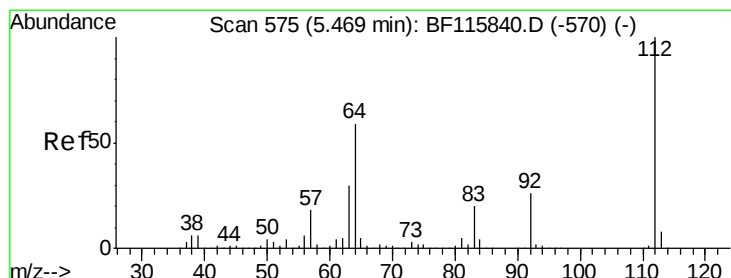
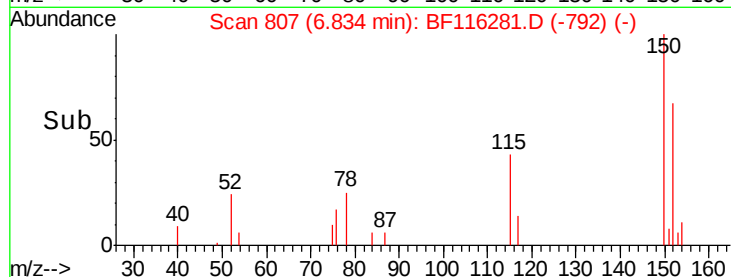
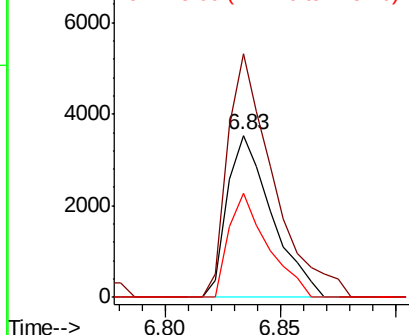
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 807  
Delta R.T. -0.01 min  
Lab File: BF116281.D  
Acq: 15 Aug 2019 16:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 4742  
Ion Ratio Lower Upper  
152 100  
150 150.1 126.2 189.2  
115 64.1 49.9 74.9



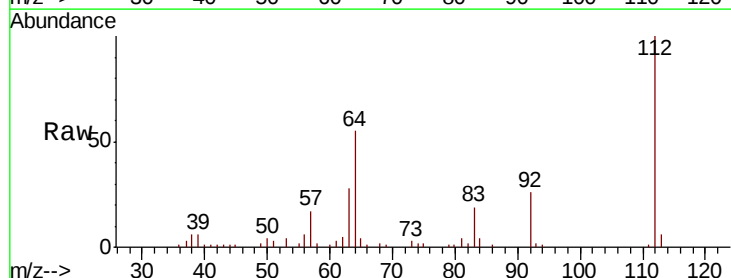
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



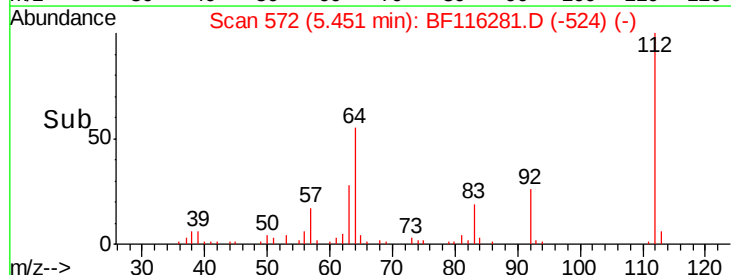
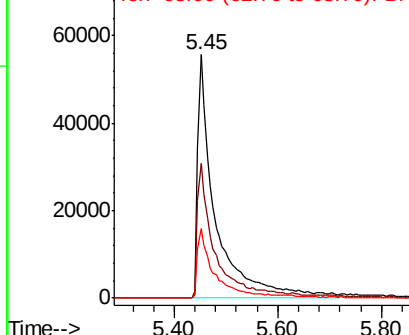
#5

2-Fluorophenol  
Concen: 464.730 ng  
RT: 5.45 min Scan# 572  
Delta R.T. -0.02 min  
Lab File: BF116281.D  
Acq: 15 Aug 2019 16:08

Tgt Ion:112 Resp: 131641  
Ion Ratio Lower Upper  
112 100  
64 55.4 45.4 68.2  
63 28.4 23.7 35.5



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: 605.429 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

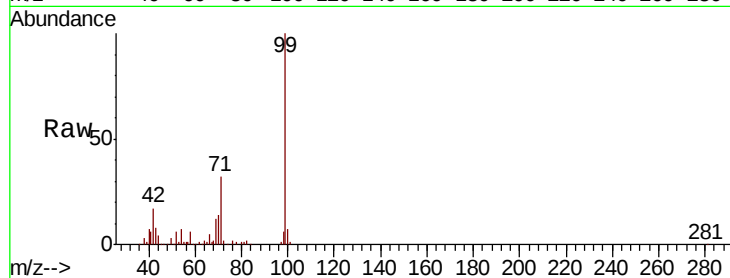
Tot Ion: 99 Resp: 216372

Ion Ratio Lower Upper

99 100

42 16.7 13.8 20.8

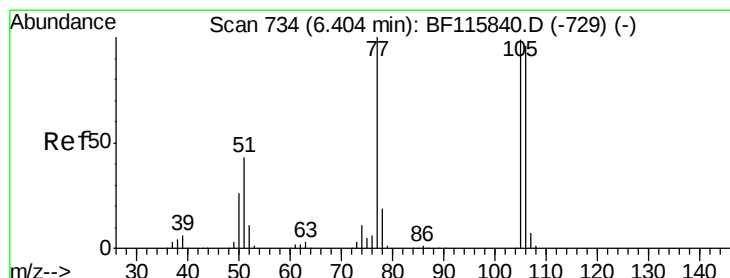
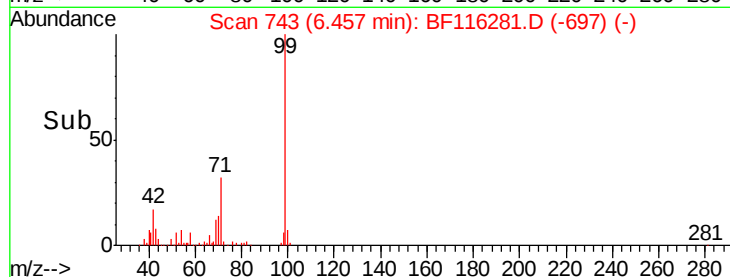
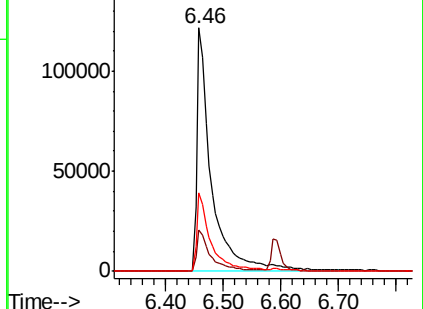
71 32.3 27.3 40.9



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



#9

Benzaldehyde

Concen: 26.700 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.19 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

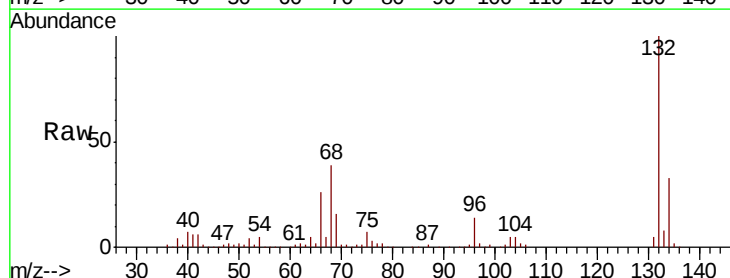
Tgt Ion: 77 Resp: 6584

Ion Ratio Lower Upper

77 100

105 80.1 79.2 119.2

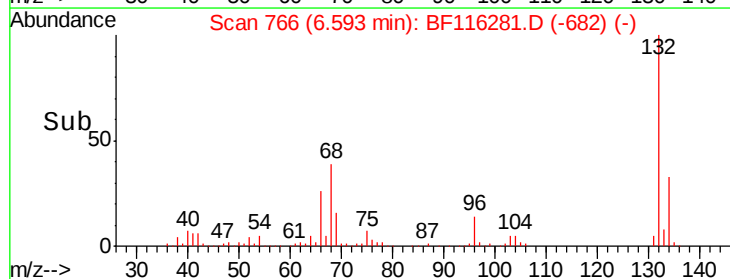
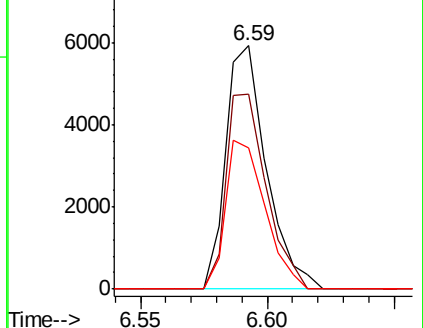
106 58.2 74.3 114.3#

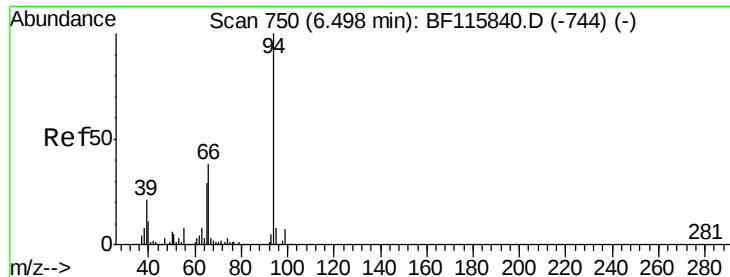


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 17.096 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.02 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

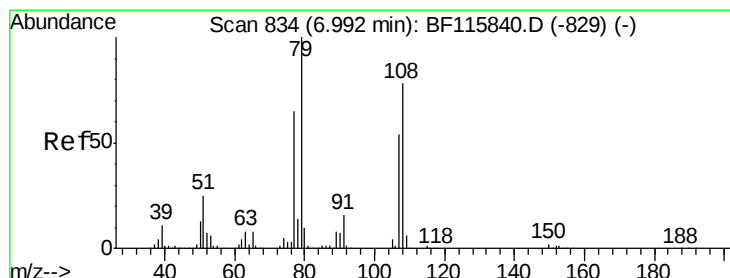
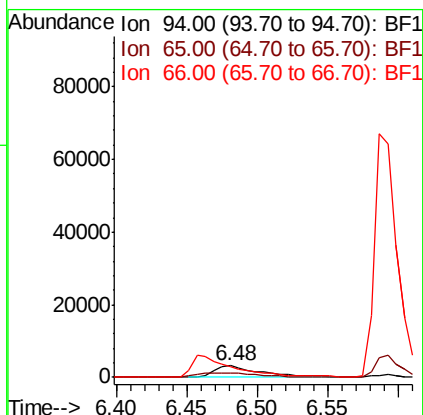
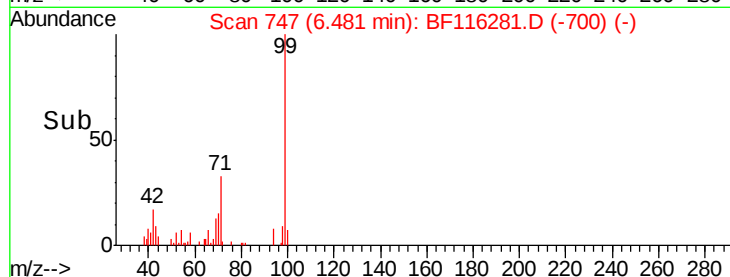
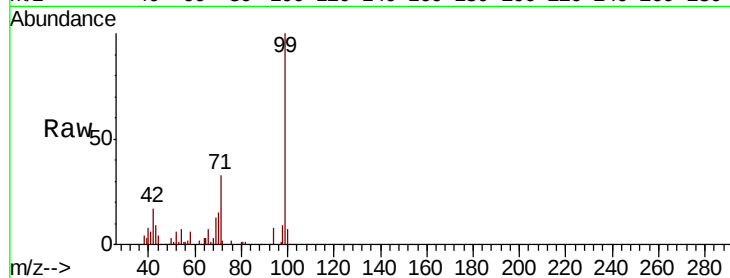
Tot Ion: 94 Resp: 7195

Ion Ratio Lower Upper

94 100

65 39.6 16.8 56.8

66 87.1 34.2 74.2#



#15

Benzyl Alcohol

Concen: 30.831 ng

RT: 6.97 min Scan# 830

Delta R.T. -0.02 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

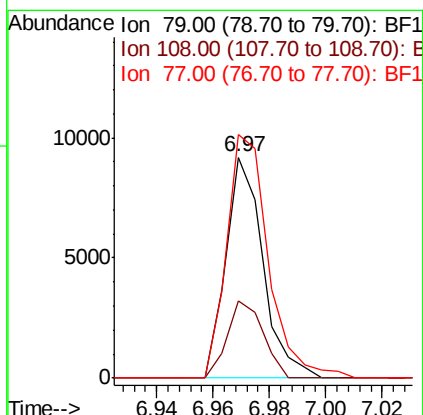
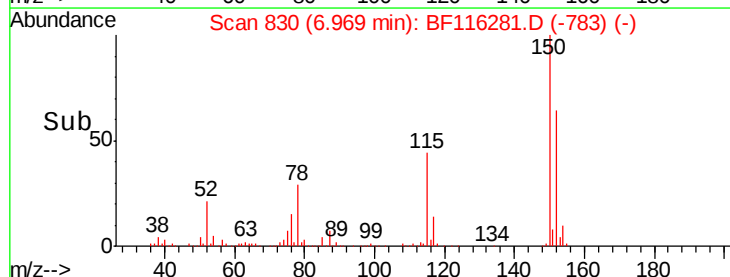
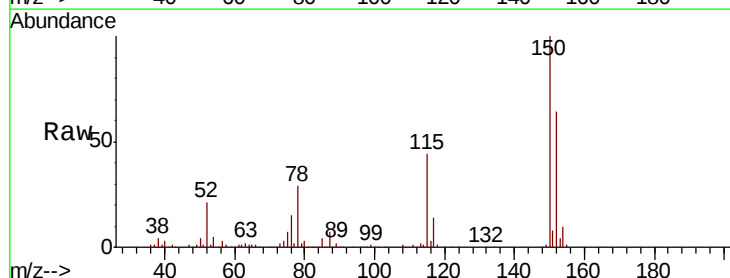
Tgt Ion: 79 Resp: 8362

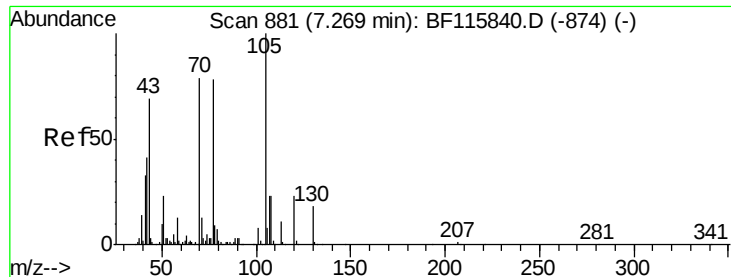
Ion Ratio Lower Upper

79 100

108 34.8 62.7 94.1#

77 110.1 52.2 78.2#

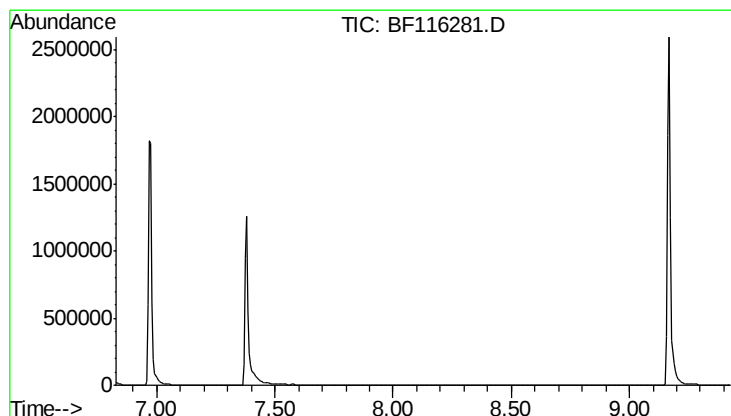
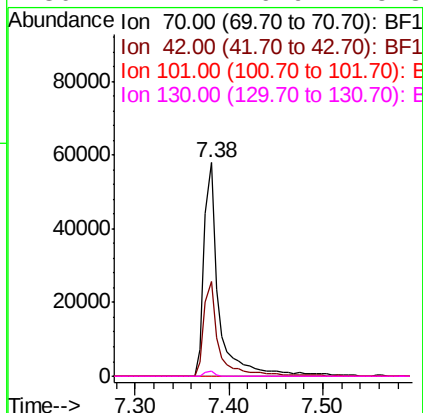
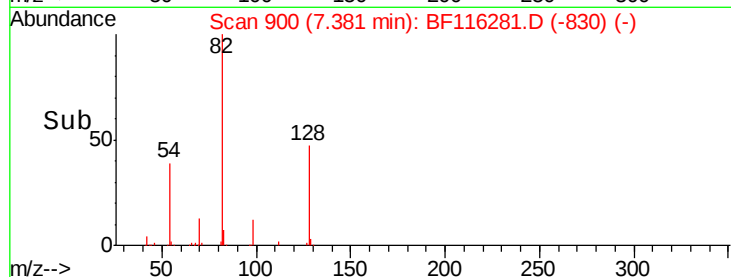
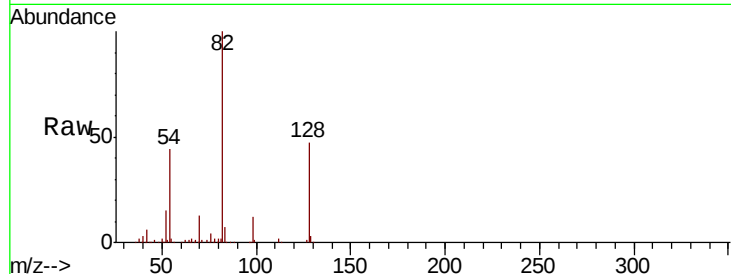




#19  
n-Nitroso-di-n-propylamine  
Concen: 287.988 ng  
RT: 7.38 min Scan# 900  
Delta R.T. 0.11 min  
Lab File: BF116281.D  
Acq: 15 Aug 2019 16:08

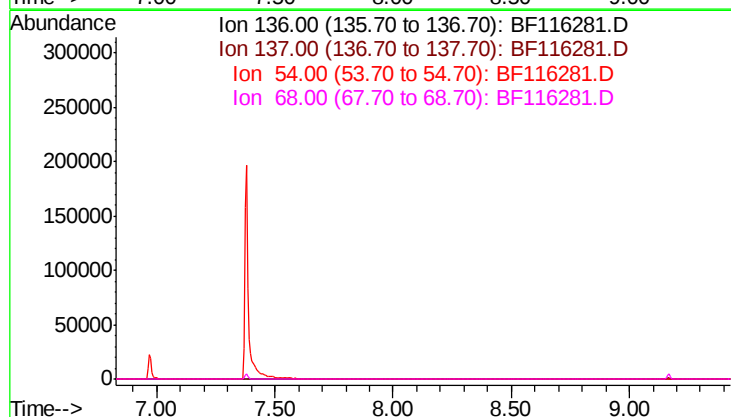
Instrument :  
BNA\_F  
ClientSampleId :

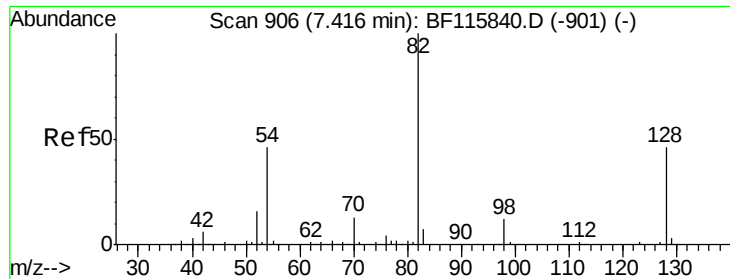
Tot Ion: 70 Resp: 63779  
Ion Ratio Lower Upper  
70 100  
42 44.1 40.9 61.3  
101 0.0 7.9 11.9#  
130 2.2 16.9 25.3#



#21  
Naphthalene-d8  
Concen: 0.000 ng  
Expected RT: 8.13 min  
Lab File: BF116281.D  
Acq: 15 Aug 2019 16:08

Tgt Ion: 136  
Sig Exp Ratio  
136 100  
137 11.2  
54 7.2  
68 6.5

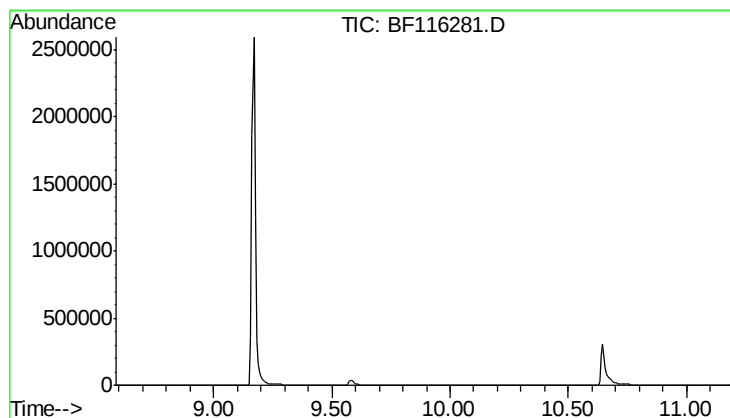
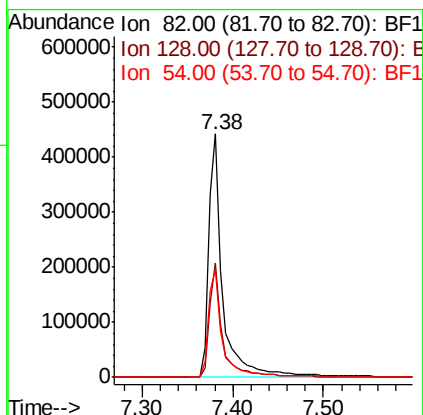
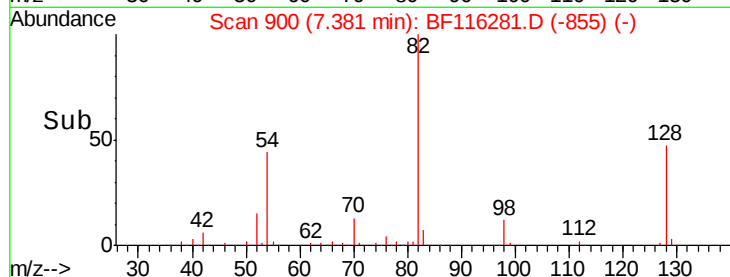
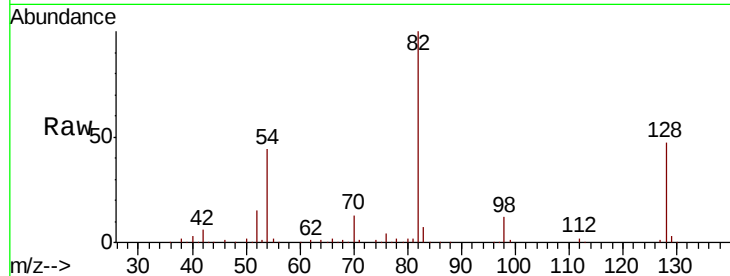




#23  
 Nitrobenzene-d5  
 Concen: 0.000 ng  
 RT: 7.38 min Scan# 900  
 Delta R.T. -0.04 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

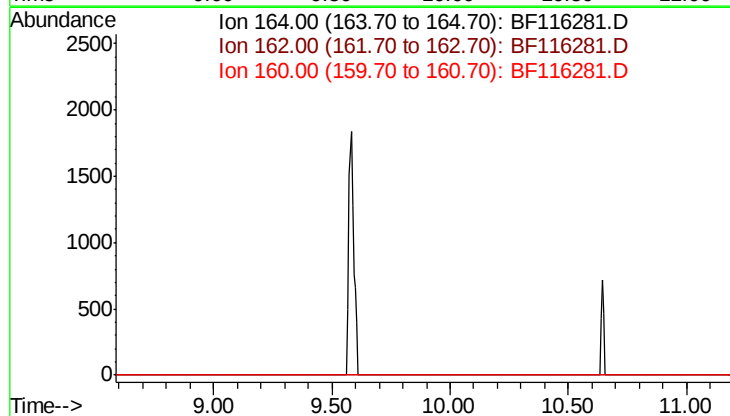
Instrument :  
 BNA\_F  
 ClientSampleId :

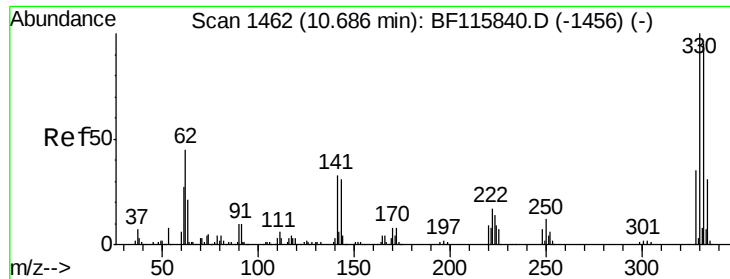
Tot Ion: 82 Resp: 488331  
 Ion Ratio Lower Upper  
 82 100  
 128 46.8 36.5 54.7  
 54 44.4 36.0 54.0



#39  
 Acenaphthene-d10  
 Concen: 0.000 ng  
 Expected RT: 9.89 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

Tgt Ion: 164  
 Sig Exp Ratio  
 164 100  
 162 103.3  
 160 47.0

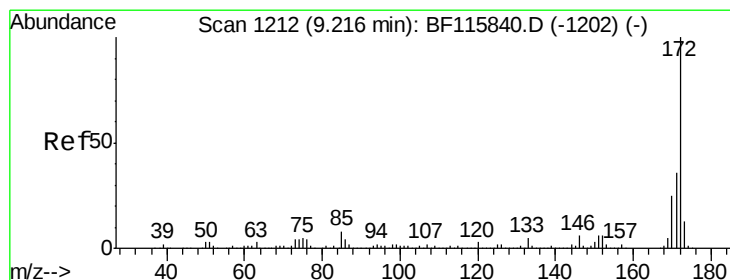
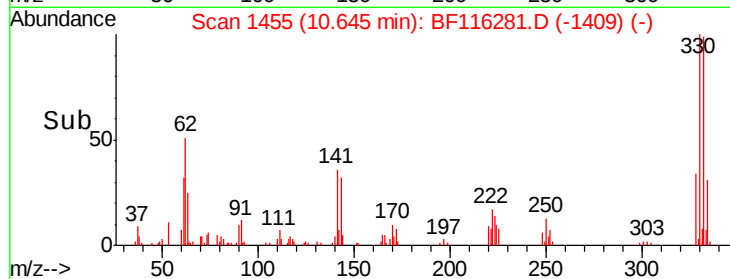
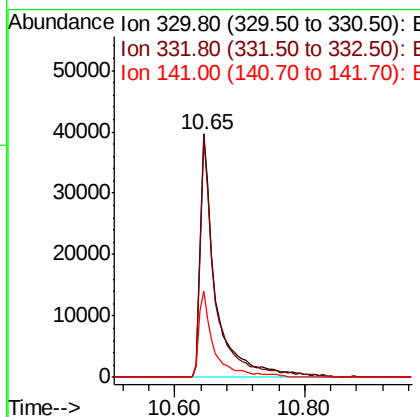
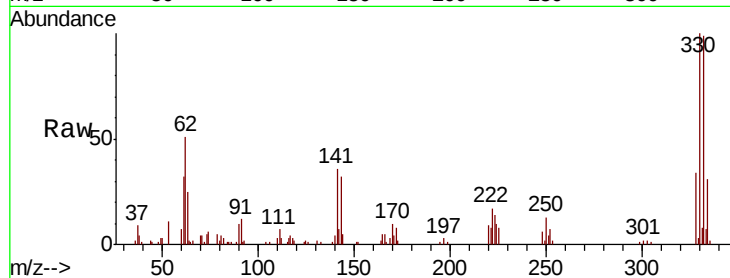




#42  
 2,4,6-Tribromophenol  
 Concen: 0.000 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. -0.03 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

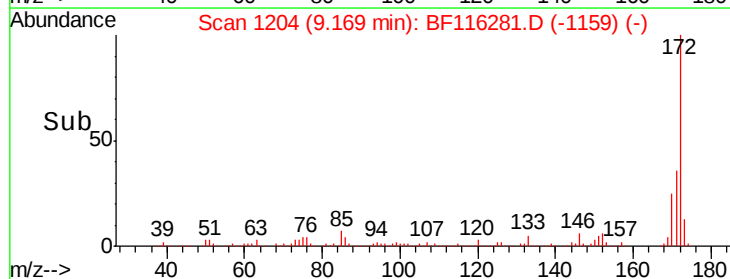
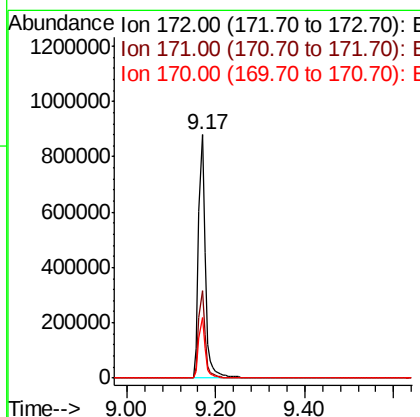
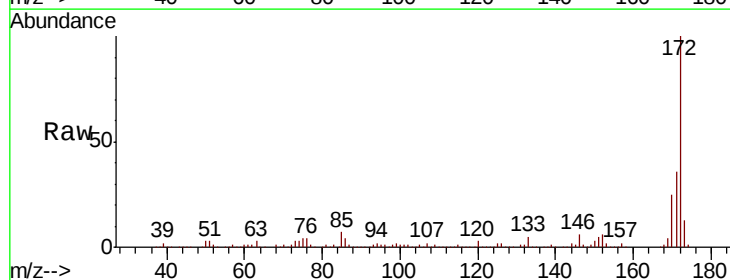
Instrument :  
 BNA\_F  
 ClientSampled :

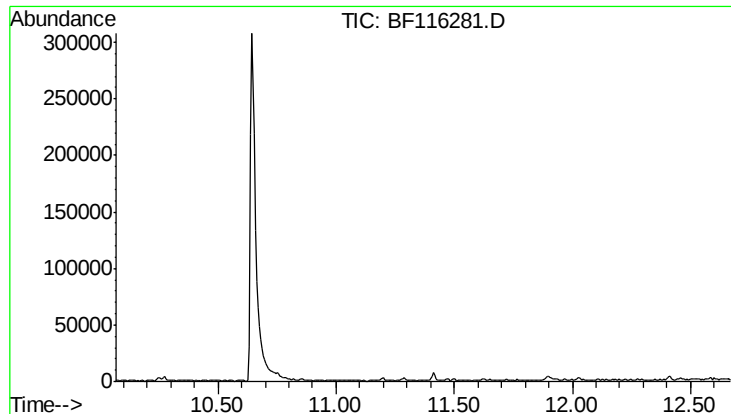
Tot Ion:330 Resp: 65521  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 76.8 115.2  
 141 34.4 26.3 39.5



#45  
 2-Fluorobiphenyl  
 Concen: 0.000 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.04 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

Tgt Ion:172 Resp: 852395  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.6 44.4  
 170 24.7 20.1 30.1

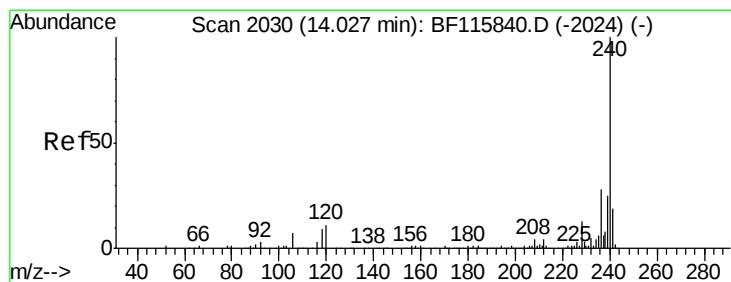
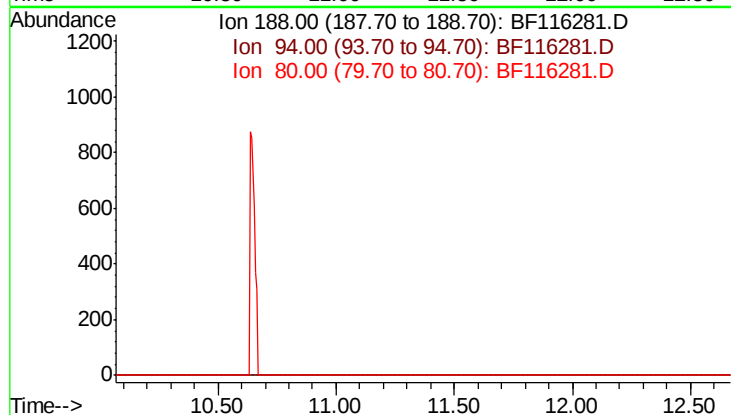




#64  
 Phenanthrene-d10  
 Concen: 0.000 ng  
 Expected RT: 11.37 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

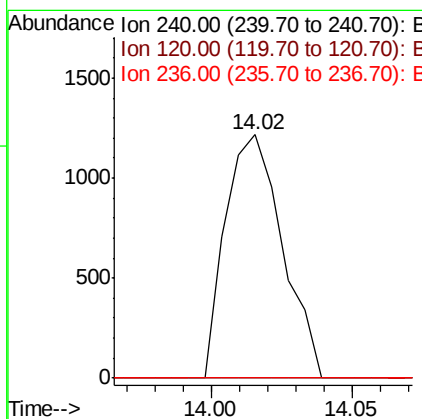
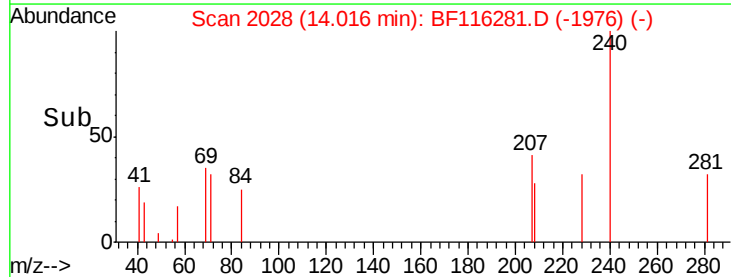
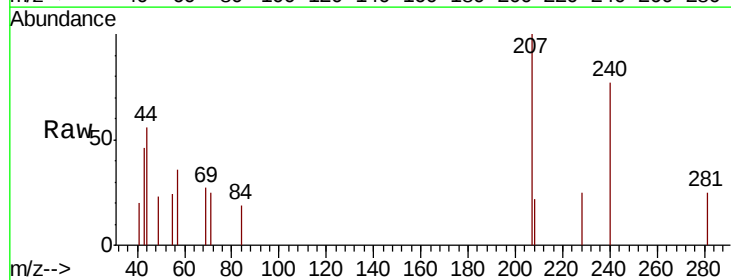
Instrument :  
 BNA\_F  
 ClientSampleId :

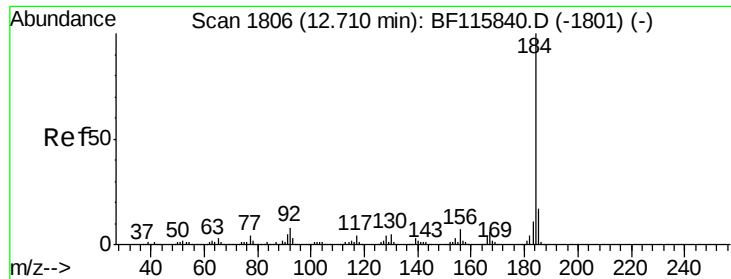
Tot Ion: 188  
 Sig Exp Ratio  
 188 100  
 94 10.1  
 80 10.9



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2028  
 Delta R.T. 0.01 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

Tgt Ion: 240 Resp: 1705  
 Ion Ratio Lower Upper  
 240 100  
 120 0.0 10.7 16.1#  
 236 0.0 22.2 33.2#





#77

Benzidine

Concen: 140.655 ng

RT: 12.91 min Scan# 1840

Delta R.T. 0.21 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

Instrument :

BNA\_F

ClientSampled :

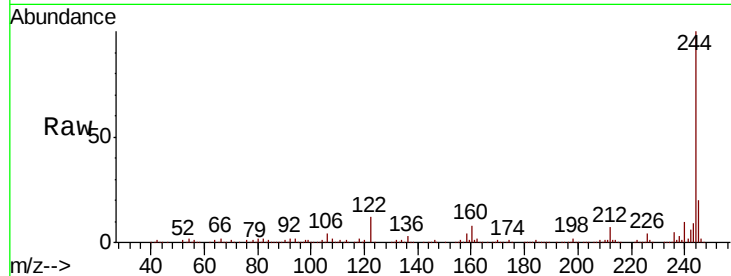
Tot Ion:184 Resp: 8102

Ion Ratio Lower Upper

184 100

185 15.2 12.8 19.2

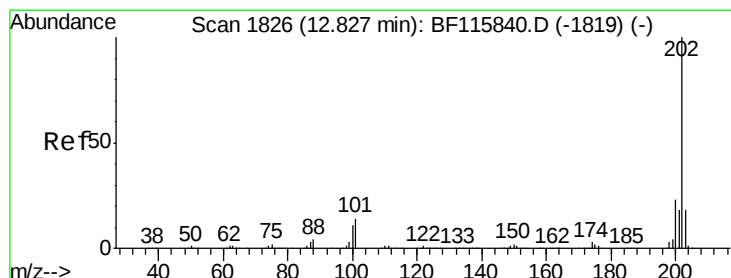
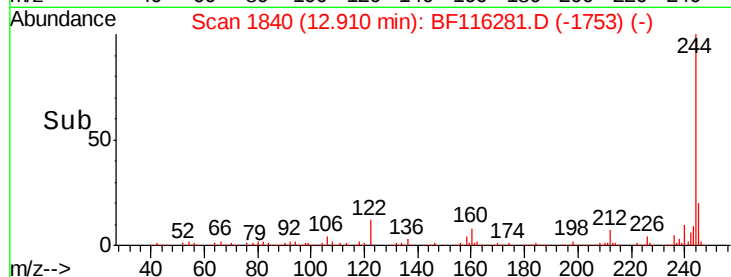
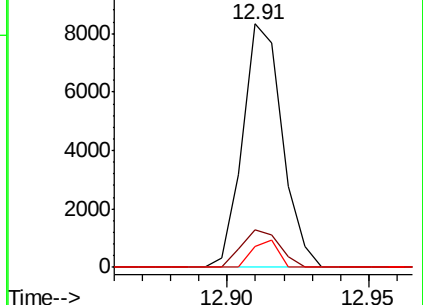
183 8.7 9.4 14.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 7.438 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

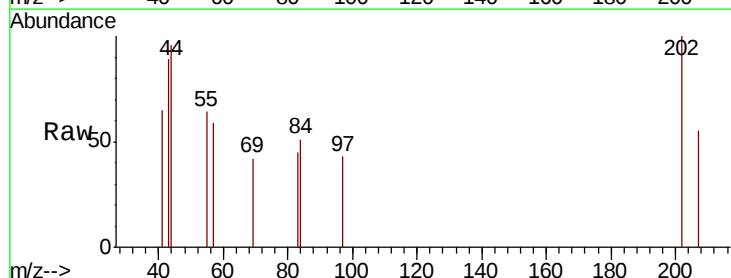
Tgt Ion:202 Resp: 956

Ion Ratio Lower Upper

202 100

200 0.0 18.0 27.0#

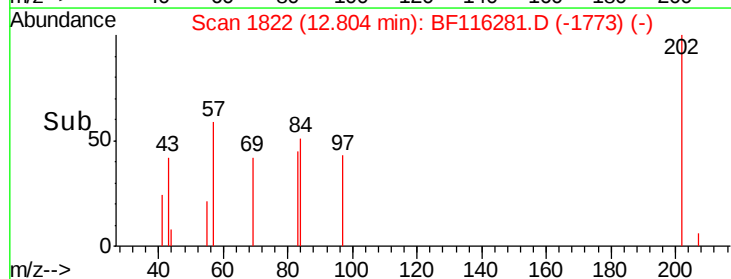
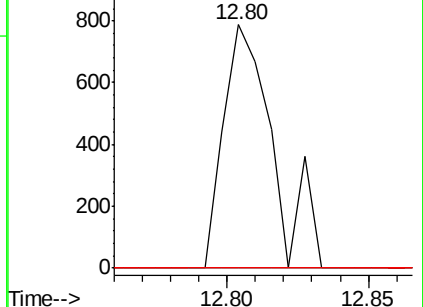
203 0.0 14.1 21.1#

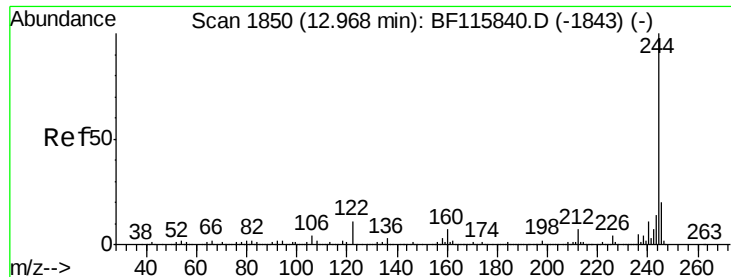


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

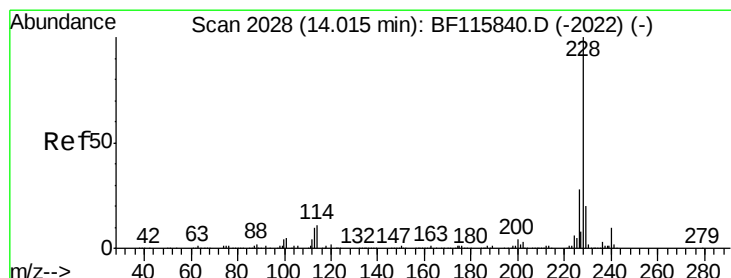
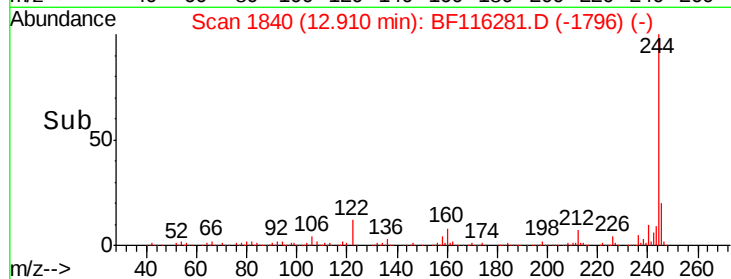
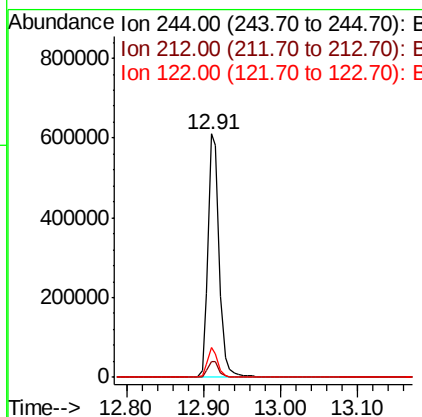
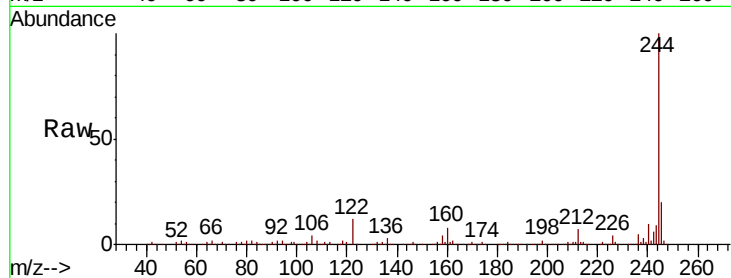




#79  
 Terphenyl-d14  
 Concen: 7585.029 ng  
 RT: 12.91 min Scan# 1840  
 Delta R.T. -0.04 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

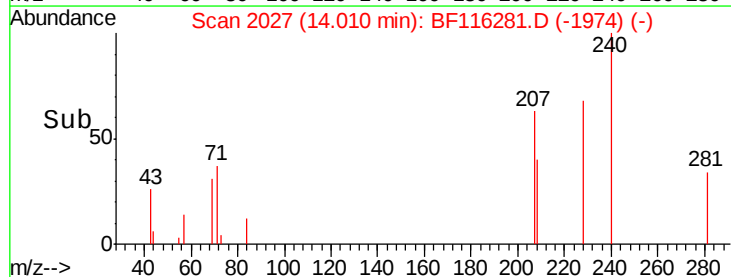
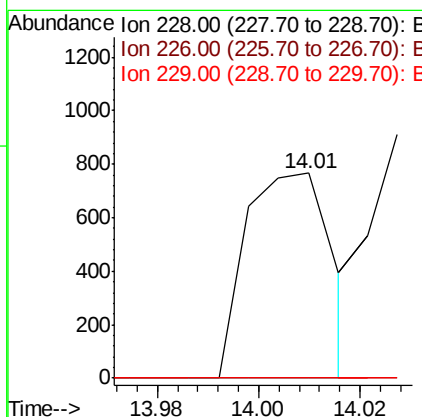
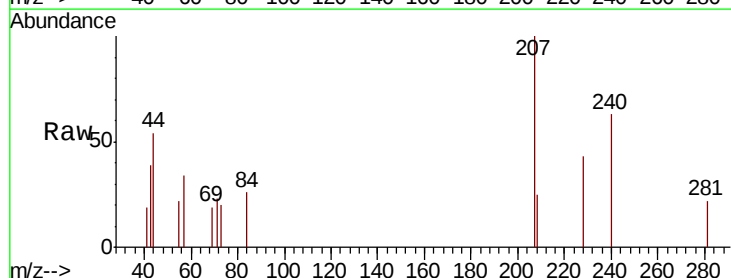
Instrument :  
 BNA\_F  
 ClientSampleId :

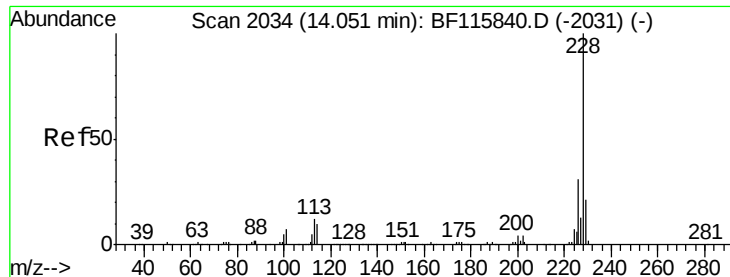
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.8   | 8.8   |
| 122     | 12.4  | 9.0   | 13.4  |



#81  
 Benzo(a)anthracene  
 Concen: 8.249 ng  
 RT: 14.01 min Scan# 2027  
 Delta R.T. 0.01 min  
 Lab File: BF116281.D  
 Acq: 15 Aug 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 0.0   | 22.7  | 34.1# |
| 229     | 0.0   | 16.2  | 24.4# |





#83

Chrysene

Concen: 23.724 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

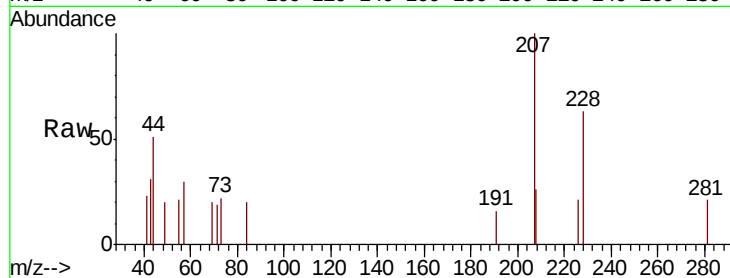
Tot Ion:228 Resp: 2510

Ion Ratio Lower Upper

228 100

226 32.7 25.5 38.3

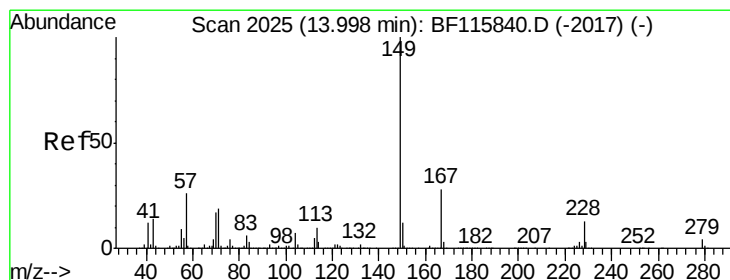
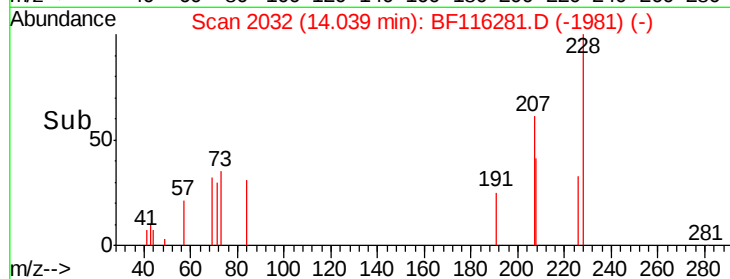
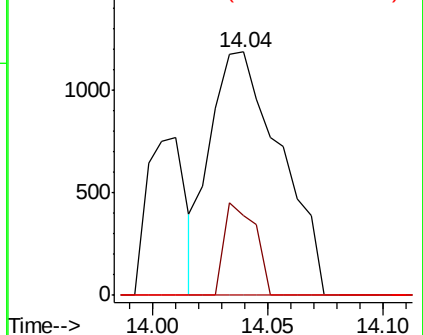
229 0.0 16.6 24.8#



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 56.575 ng

RT: 13.94 min Scan# 2015

Delta R.T. -0.04 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

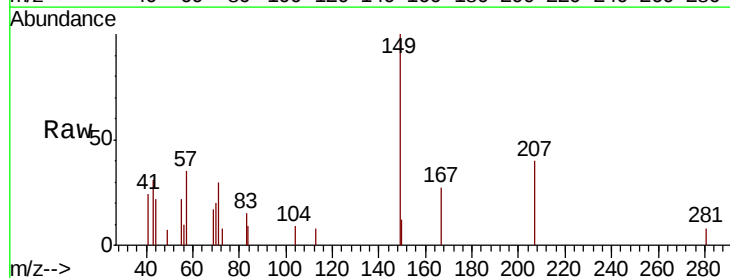
Tgt Ion:149 Resp: 3997

Ion Ratio Lower Upper

149 100

167 26.9 21.6 32.4

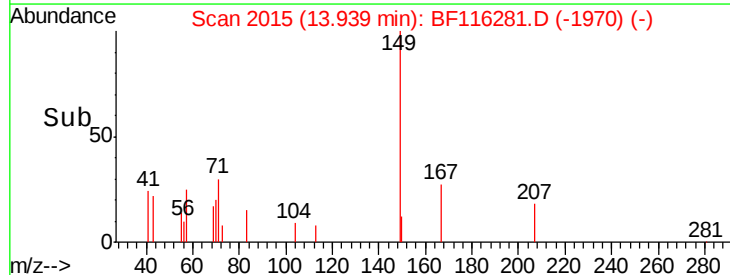
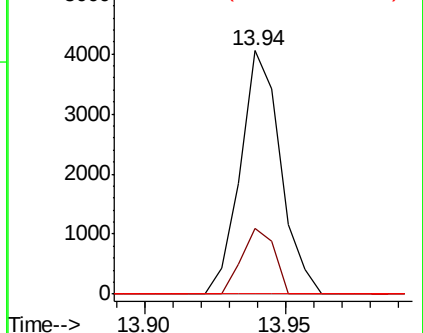
279 0.0 3.0 4.4#

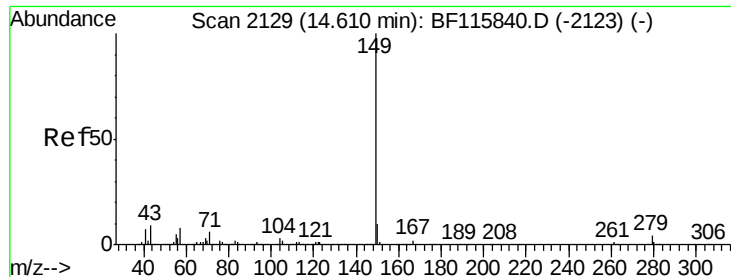


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 3.841 ng

RT: 14.59 min Scan# 2125

Delta R.T. 0.00 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

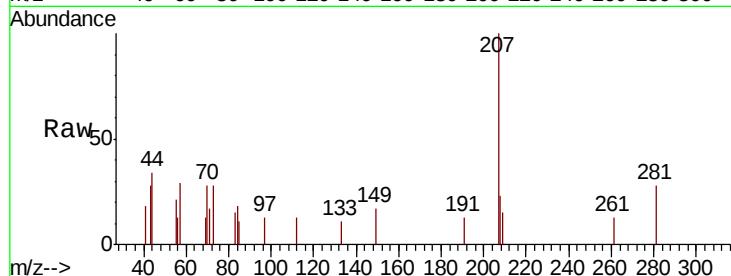
Tot Ion: 149 Resp: 431

Ion Ratio Lower Upper

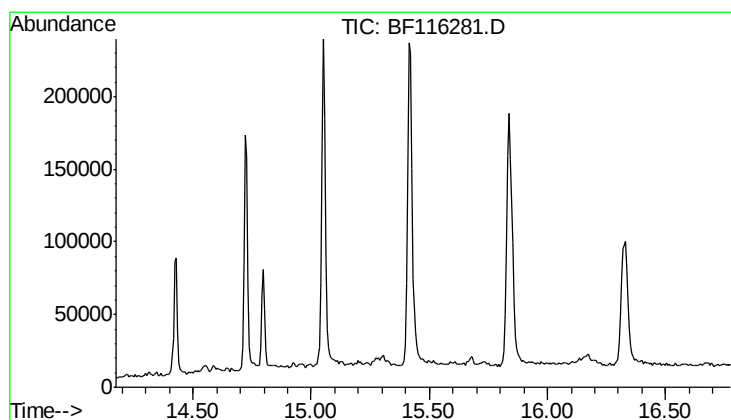
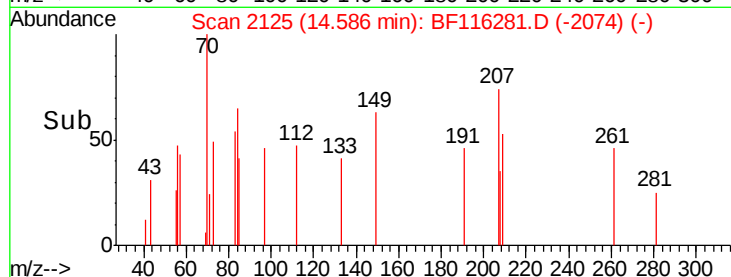
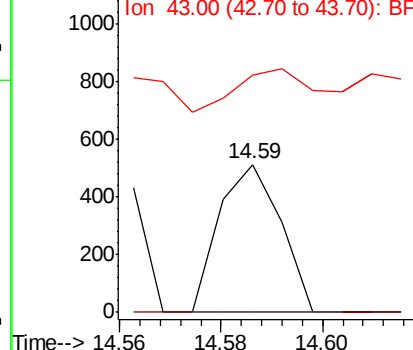
149 100

167 0.0 1.4 2.0#

43 0.0 7.5 11.3#



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 43.00 (42.70 to 43.70): BF1



#87

Perylene-d12

Concen: 0.000 ng

Expected RT: 15.47 min

Lab File: BF116281.D

Acq: 15 Aug 2019 16:08

Tgt Ion: 264

Sig Exp Ratio

264 100

260 24.6

265 21.7

