

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041219\  
 Data File : BF113760.D  
 Acq On : 13 Apr 2019 1:48  
 Operator : JU/SJ  
 Sample : K2359-01 10X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 13 03:45:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 04 04:05:31 2019  
 Response via : Initial Calibration

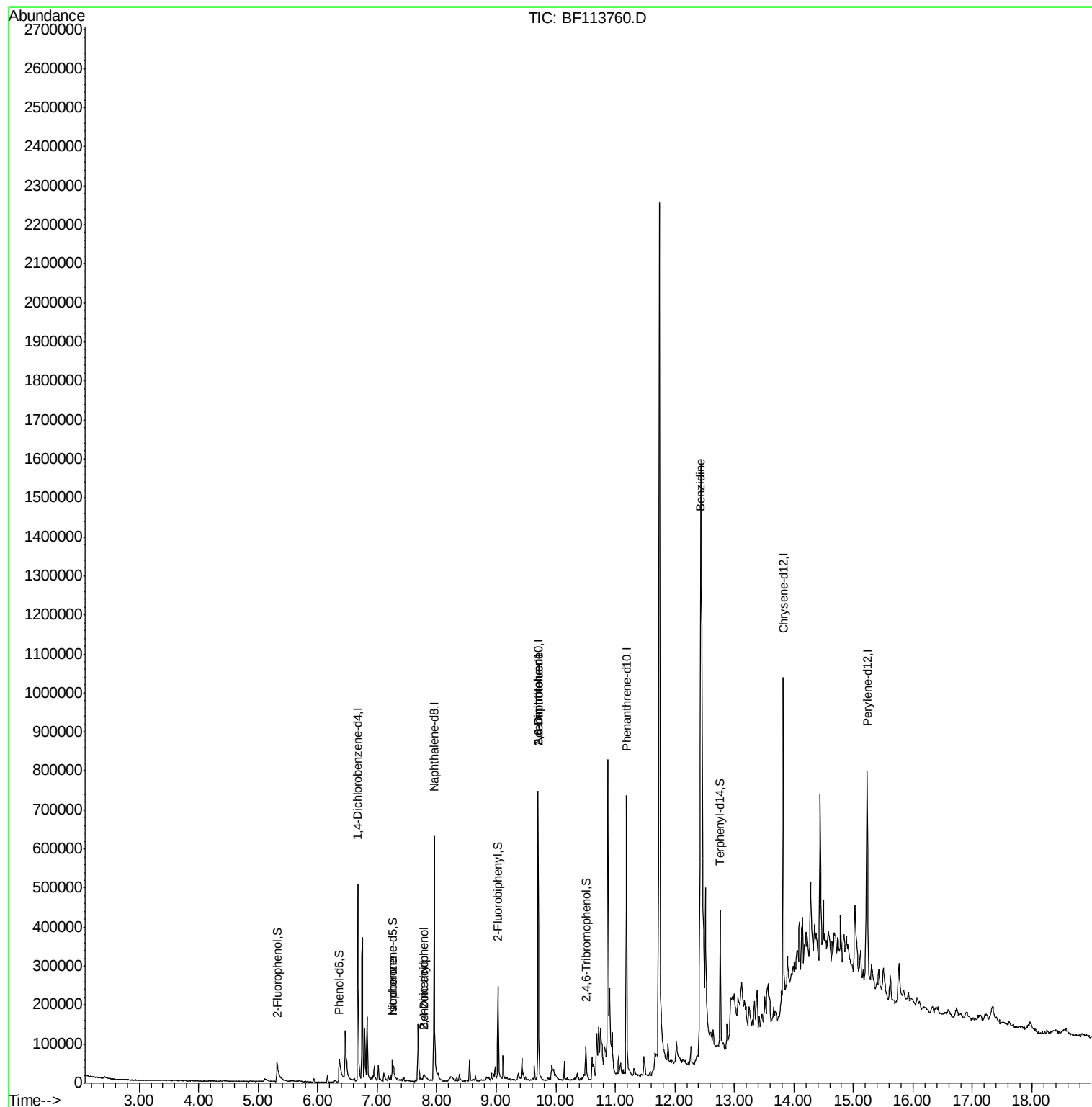
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.67  | 152  | 95505    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.96  | 136  | 358355   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.70  | 164  | 149428   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.19 | 188  | 290319   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12            | 13.82 | 240  | 299016   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12            | 15.23 | 264  | 239033   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 49399    | 8.82  | ng    | 0.02     |
| 7) Phenol-d6                | 6.36  | 99   | 61032    | 8.84  | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.25  | 82   | 42618    | 6.97  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.50 | 330  | 17043    | 9.49  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.03  | 172  | 91901    | 9.90  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.76 | 244  | 108237   | 7.37  | ng    | -0.03    |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.25  | 82   | 42618    | 3.616 | ng    | # 64     |
| 27) 2,4-Dimethylphenol      | 7.79  | 122  | 14493    | 2.990 | ng    | # 5      |
| 32) Benzoic acid            | 7.79  | 122  | 16282    | 4.338 | ng    | 94       |
| 51) 2,6-Dinitrotoluene      | 9.70  | 165  | 18578    | 7.652 | ng    | # 25     |
| 57) 2,4-Dinitrotoluene      | 9.70  | 165  | 18578    | 6.327 | ng    | # 22     |
| 77) Benzidine               | 12.43 | 184  | 80824    | 7.269 | ng    | # 88     |

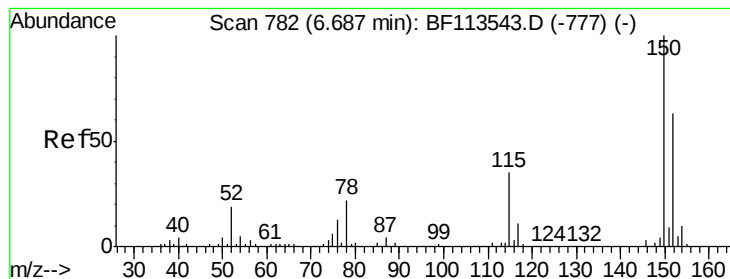
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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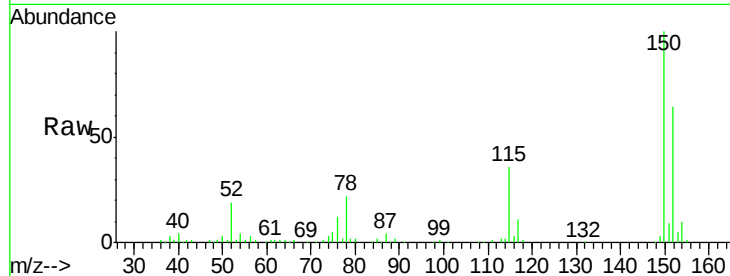


#1

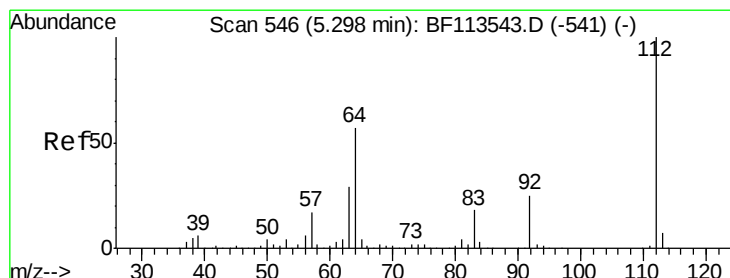
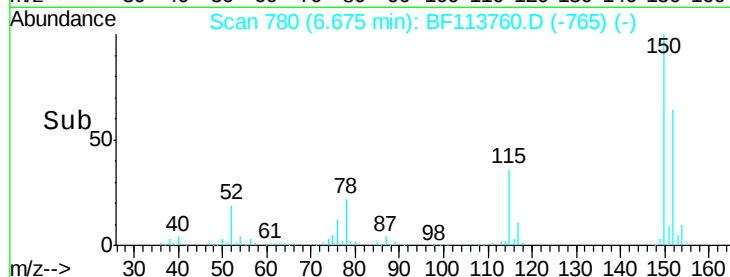
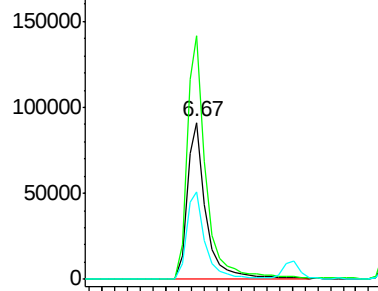
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.67 min Scan# 780  
Delta R.T. -0.01 min  
Lab File: BF113760.D  
Acq: 13 Apr 2019 1:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 95505  
Ion Ratio Lower Upper  
152 100  
150 155.1 124.7 187.1  
115 56.0 46.0 69.0



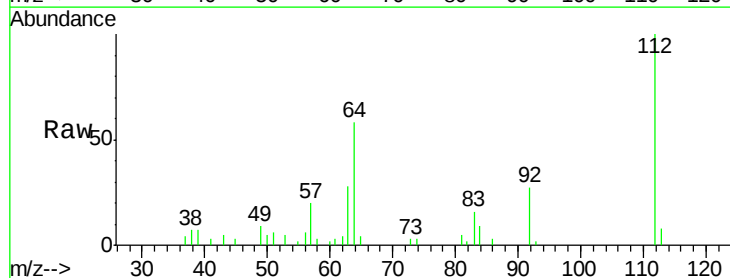
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



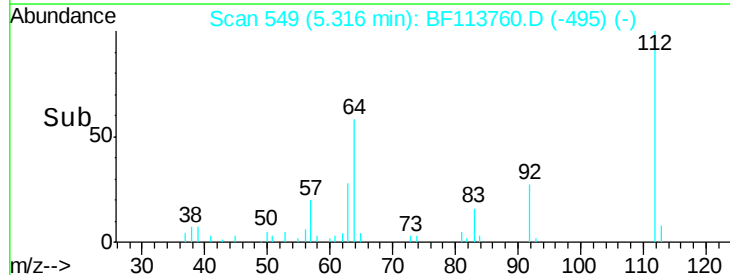
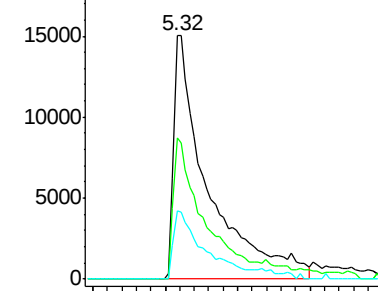
#5

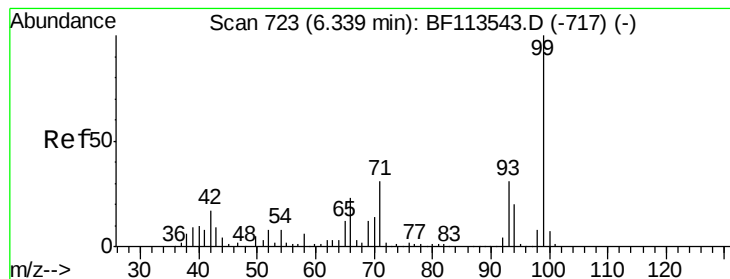
2-Fluorophenol  
Concen: 8.820 ng  
RT: 5.32 min Scan# 549  
Delta R.T. 0.02 min  
Lab File: BF113760.D  
Acq: 13 Apr 2019 1:48

Tgt Ion:112 Resp: 49399  
Ion Ratio Lower Upper  
112 100  
64 58.3 49.2 73.8  
63 27.9 24.9 37.3



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: 8.841 ng

RT: 6.36 min Scan# 727

Delta R.T. 0.02 min

Lab File: BF113760.D

Acq: 13 Apr 2019 1:48

Instrument :

BNA\_F

ClientSampleId :

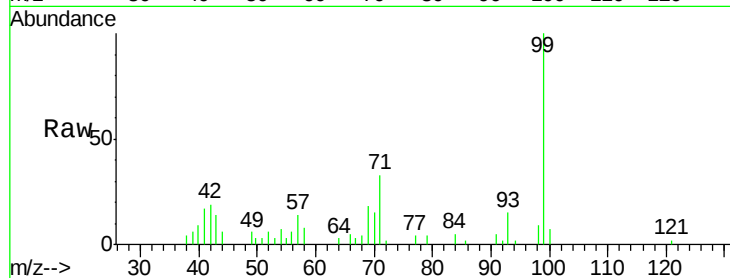
Tot Ion: 99 Resp: 61032

Ion Ratio Lower Upper

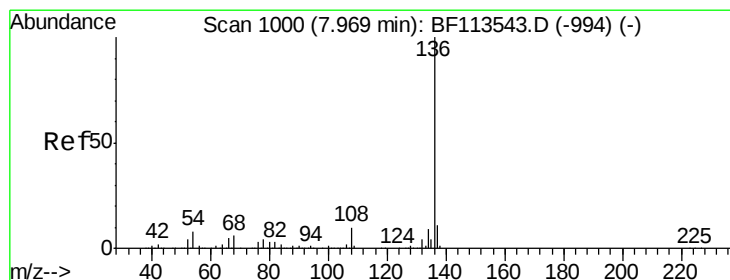
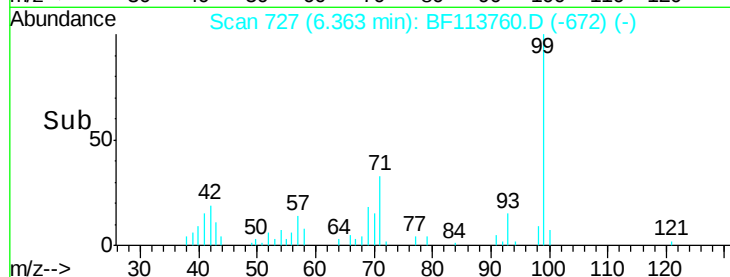
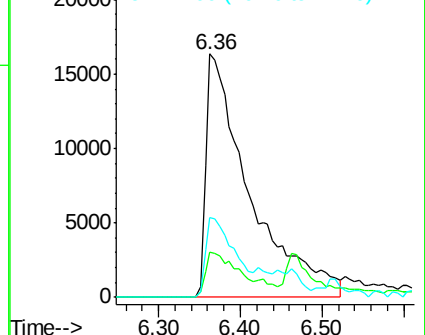
99 100

42 18.7 14.8 22.2

71 32.6 24.9 37.3



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 998

Delta R.T. -0.01 min

Lab File: BF113760.D

Acq: 13 Apr 2019 1:48

Tgt Ion: 136 Resp: 358355

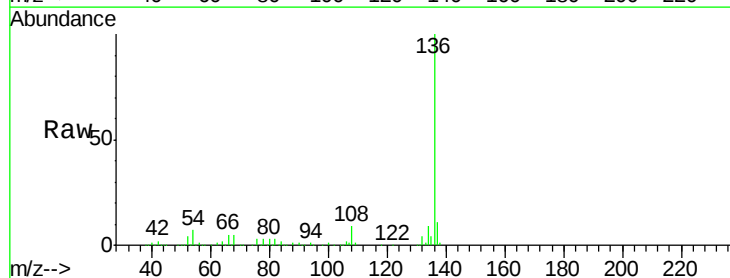
Ion Ratio Lower Upper

136 100

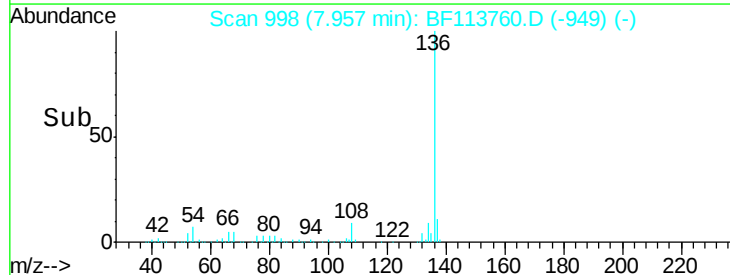
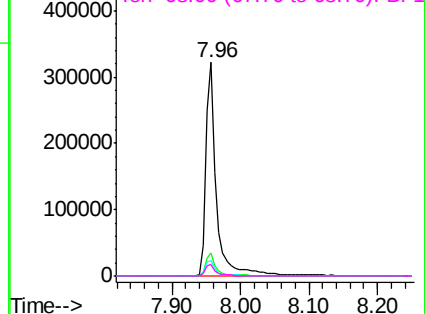
137 10.8 8.9 13.3

54 7.3 7.0 10.6

68 5.5 4.8 7.2



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

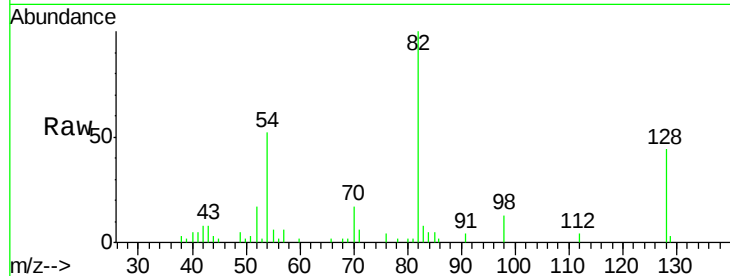




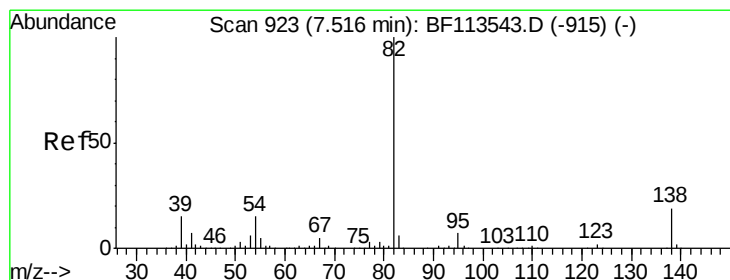
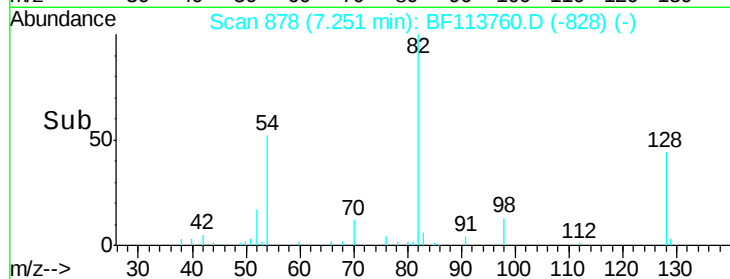
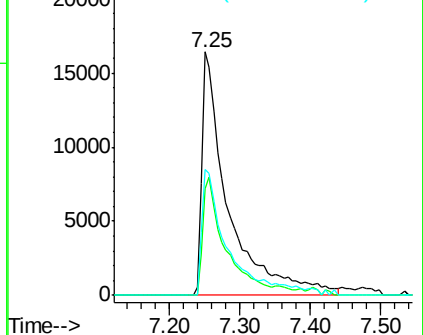
#23  
Nitrobenzene-d5  
Concen: 6.966 ng  
RT: 7.25 min Scan# 878  
Delta R.T. -0.01 min  
Lab File: BF113760.D  
Acq: 13 Apr 2019 1:48

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion   | 82    | Resp  | 42618 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 44.0  | 36.5  | 54.7  |
| 54        | 51.8  | 42.2  | 63.2  |

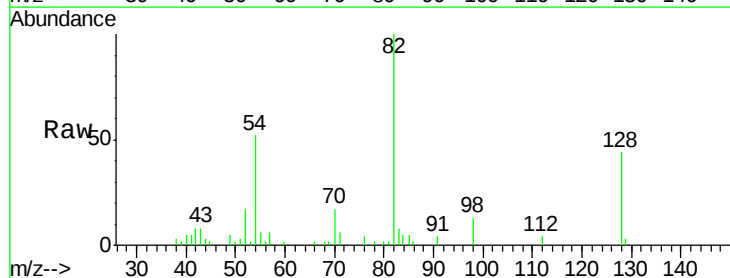


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

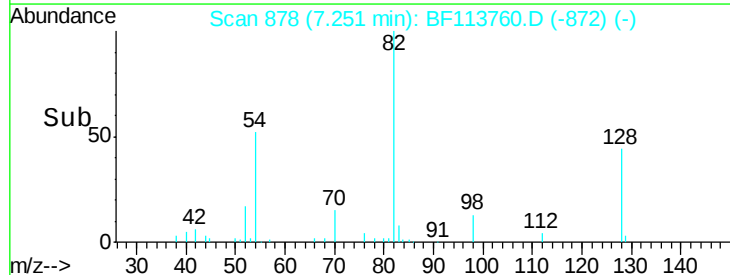
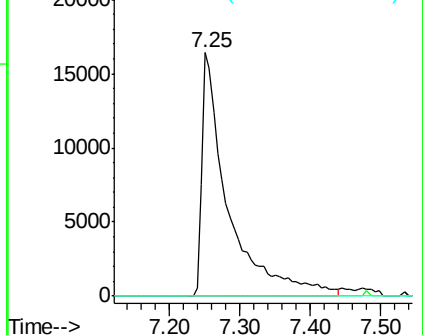


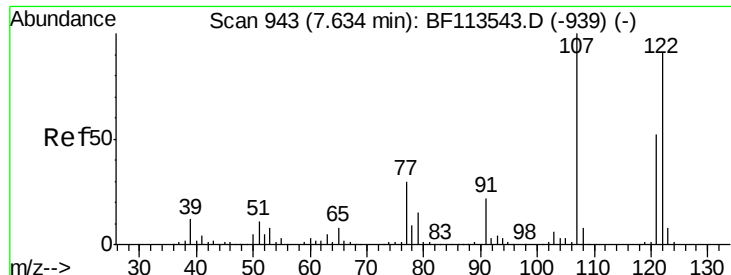
#25  
Isophorone  
Concen: 3.616 ng  
RT: 7.25 min Scan# 878  
Delta R.T. -0.26 min  
Lab File: BF113760.D  
Acq: 13 Apr 2019 1:48

| Tgt Ion   | 82    | Resp  | 42618 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 95        | 0.0   | 5.5   | 8.3#  |
| 138       | 0.0   | 15.2  | 22.8# |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

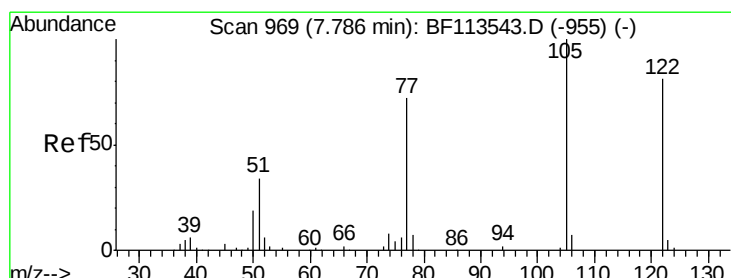
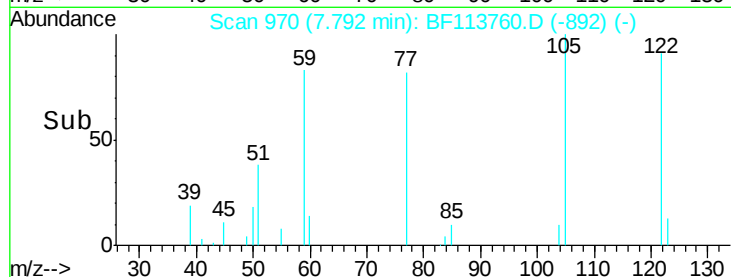
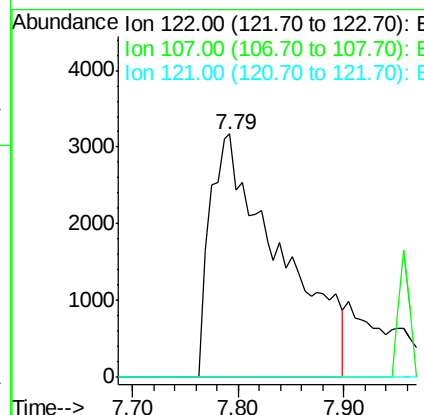
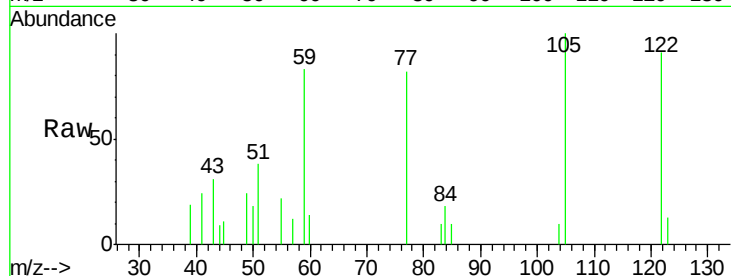




#27  
2,4-Dimethylphenol  
Concen: 2.990 ng  
RT: 7.79 min Scan# 970  
Delta R.T. 0.16 min  
Lab File: BF113760.D  
Acq: 13 Apr 2019 1:48

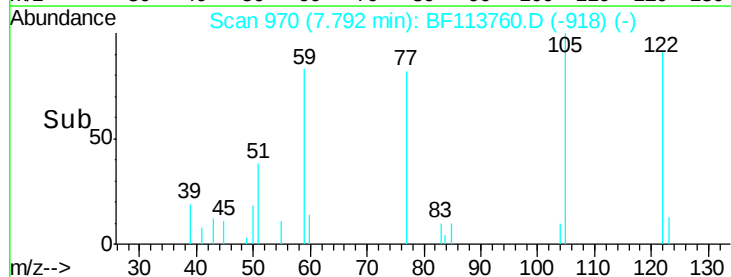
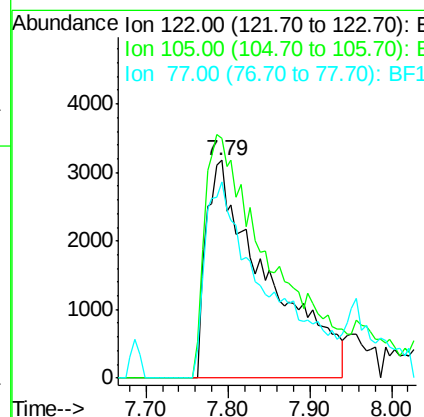
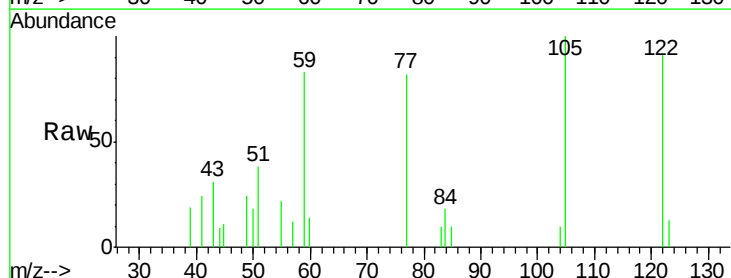
Instrument :  
BNA\_F  
ClientSampleId :

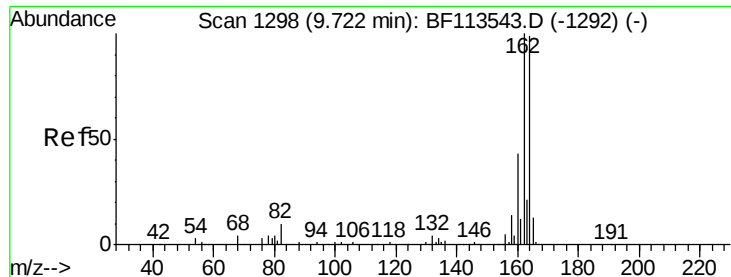
Tot Ion:122 Resp: 14493  
Ion Ratio Lower Upper  
122 100  
107 0.0 88.8 133.2#  
121 0.0 45.5 68.3#



#32  
Benzoic acid  
Concen: 4.338 ng  
RT: 7.79 min Scan# 970  
Delta R.T. 0.01 min  
Lab File: BF113760.D  
Acq: 13 Apr 2019 1:48

Tgt Ion:122 Resp: 16282  
Ion Ratio Lower Upper  
122 100  
105 110.1 100.4 140.4  
77 90.4 69.0 109.0

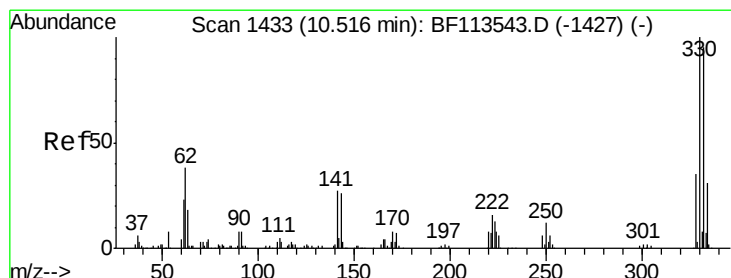
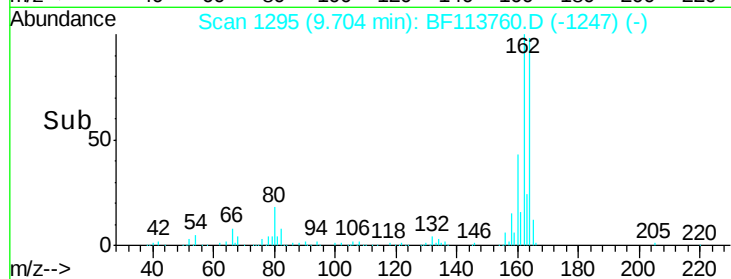
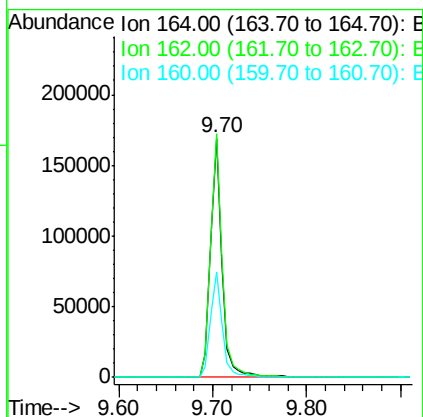
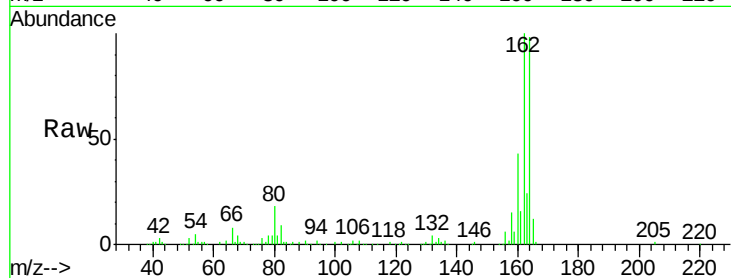




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.02 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

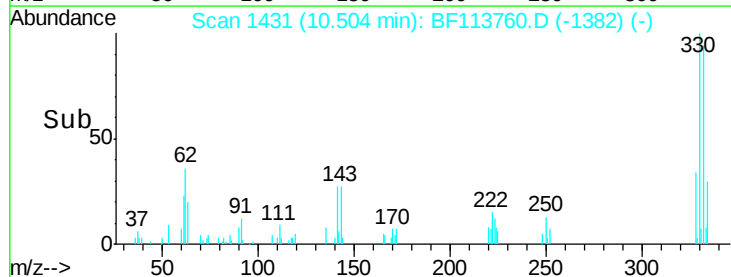
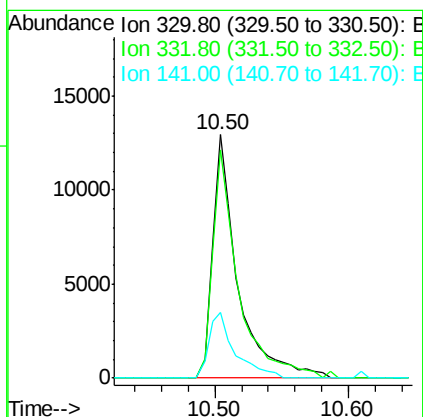
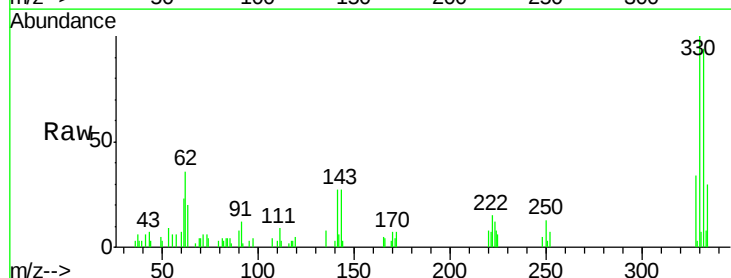
Instrument :  
 BNA\_F  
 ClientSampleId :

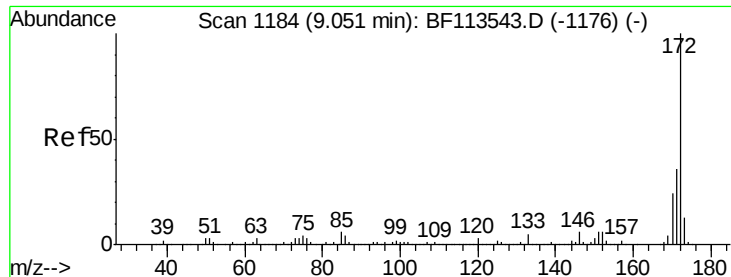
Tot Ion:164 Resp: 149428  
 Ion Ratio Lower Upper  
 164 100  
 162 102.0 81.8 122.6  
 160 44.3 36.4 54.6



#42  
 2,4,6-Tribromophenol  
 Concen: 9.495 ng  
 RT: 10.50 min Scan# 1431  
 Delta R.T. -0.01 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

Tgt Ion:330 Resp: 17043  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 77.8 116.6  
 141 28.2 22.7 34.1

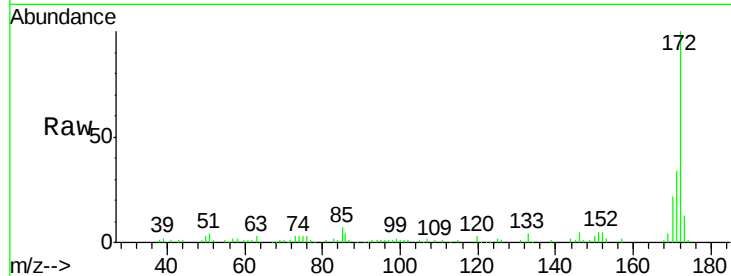




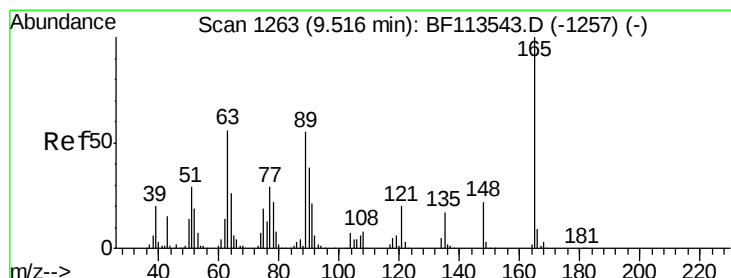
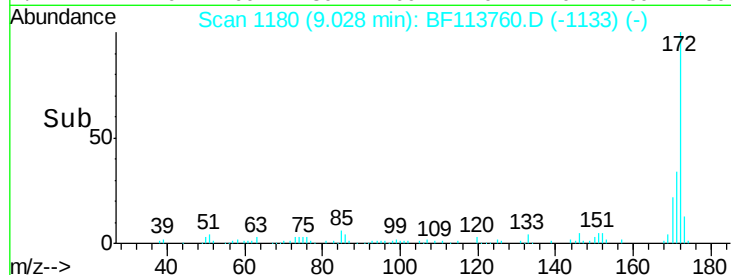
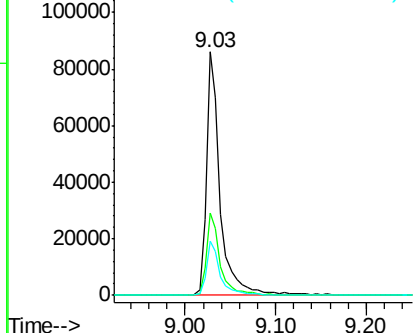
#45  
 2-Fluorobiphenyl  
 Concen: 9.901 ng  
 RT: 9.03 min Scan# 1180  
 Delta R.T. -0.02 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:172 Resp: 91901  
 Ion Ratio Lower Upper  
 172 100  
 171 33.7 29.0 43.6  
 170 22.5 19.5 29.3

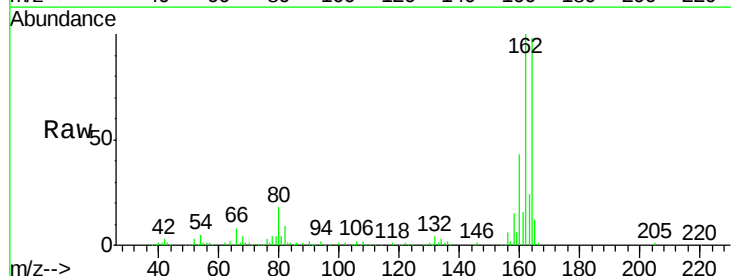


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

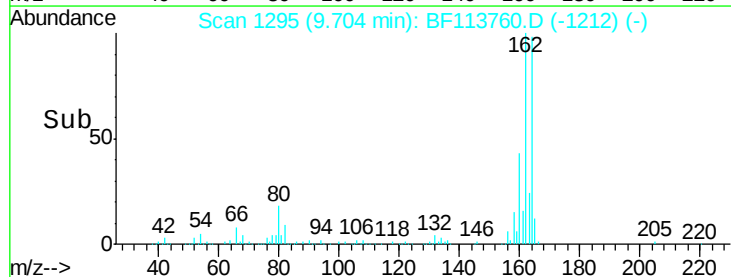
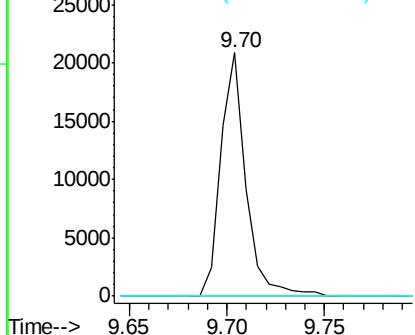


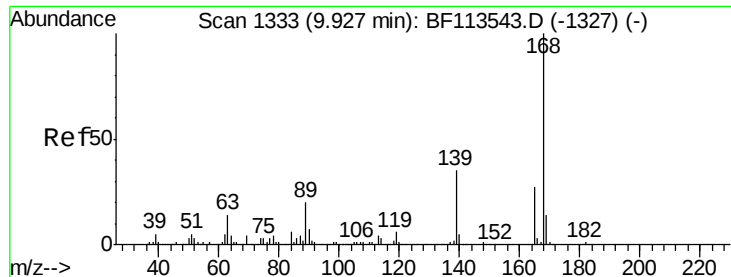
#51  
 2,6-Dinitrotoluene  
 Concen: 7.652 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. 0.19 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

Tgt Ion:165 Resp: 18578  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 43.4 65.0#  
 89 0.0 43.1 64.7#



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

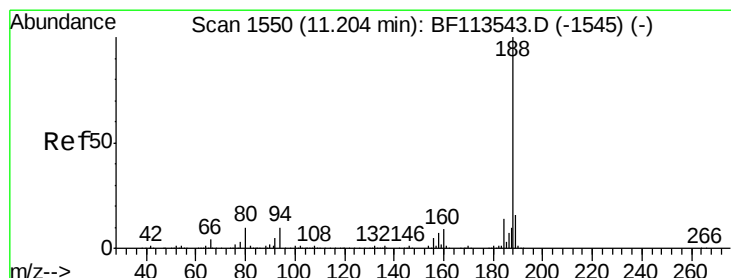
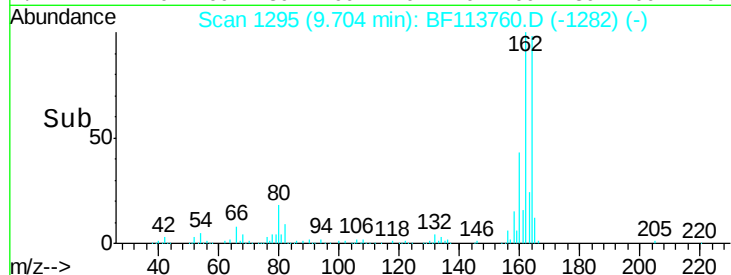
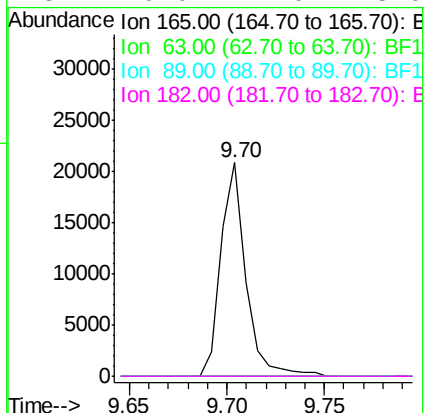
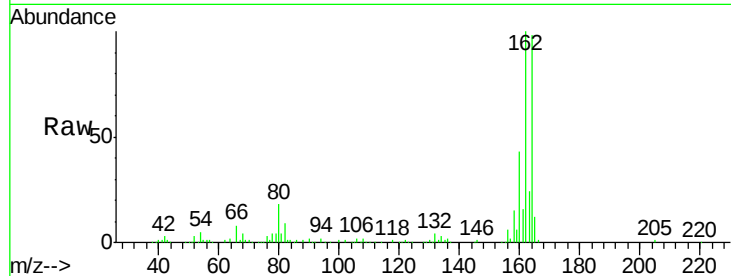




#57  
 2,4-Dinitrotoluene  
 Concen: 6.327 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.22 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

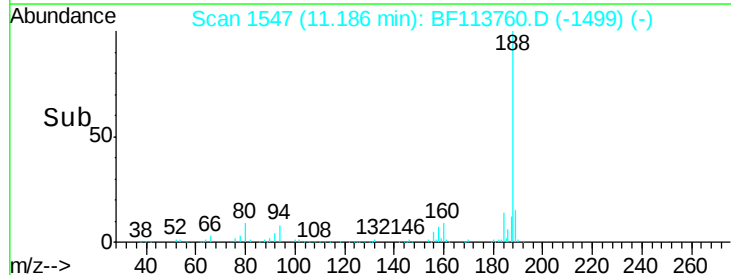
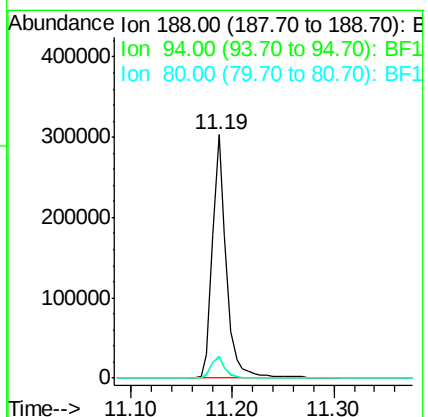
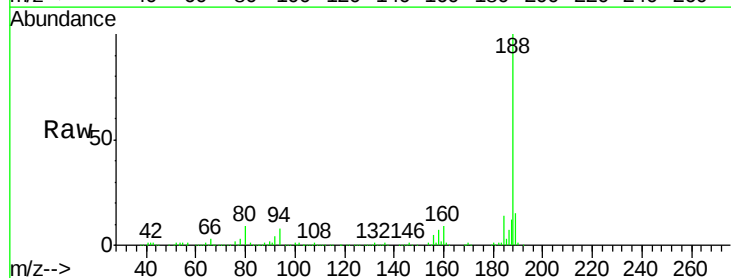
Instrument :  
 BNA\_F  
 ClientSampleId :

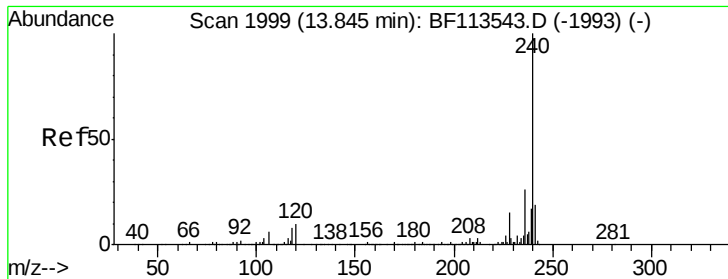
Tot Ion:165 Resp: 18578  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 37.5 56.3#  
 89 0.0 57.4 86.2#  
 182 0.0 2.0 3.0#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.19 min Scan# 1547  
 Delta R.T. -0.02 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

Tgt Ion:188 Resp: 290319  
 Ion Ratio Lower Upper  
 188 100  
 94 8.3 7.0 10.6  
 80 9.1 7.7 11.5

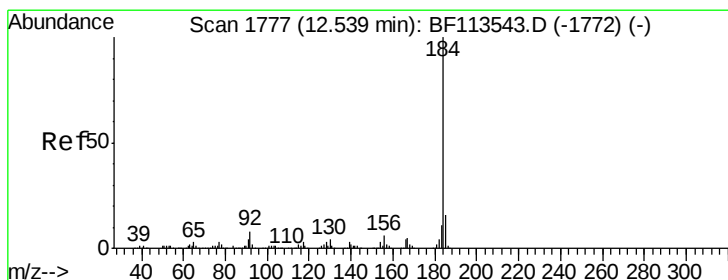
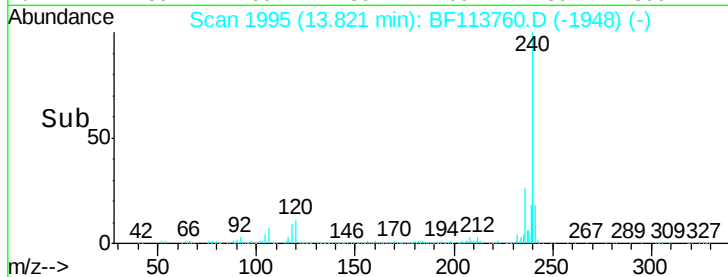
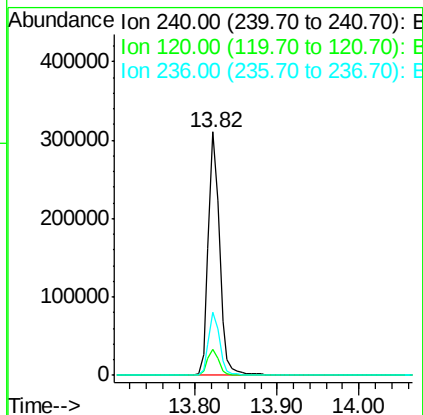
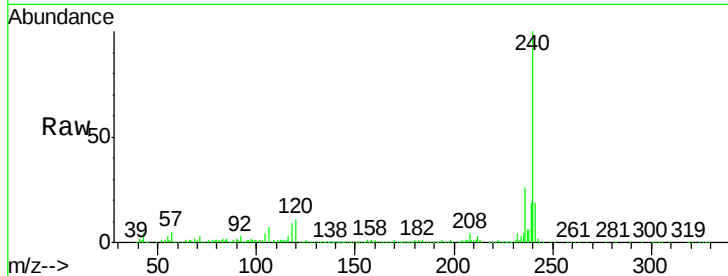




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.82 min Scan# 1995  
 Delta R.T. -0.02 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

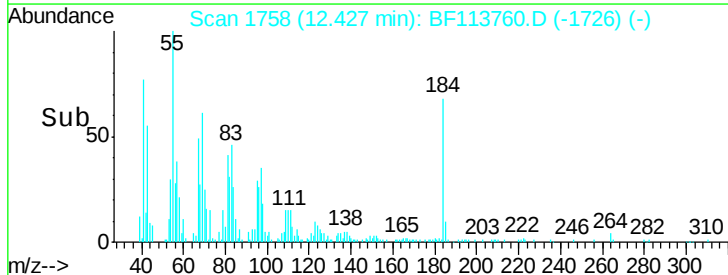
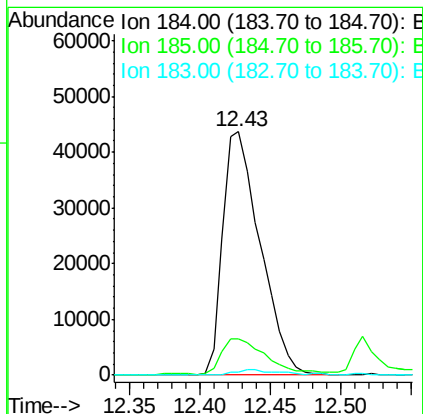
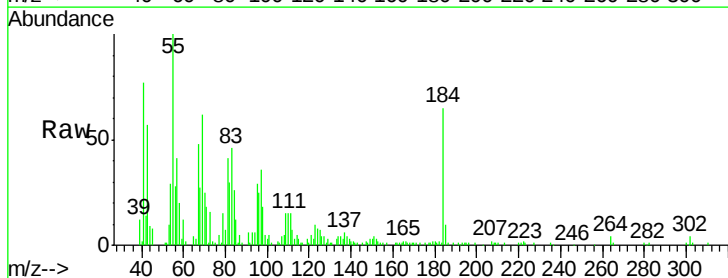
Instrument :  
 BNA\_F  
 ClientSampleId :

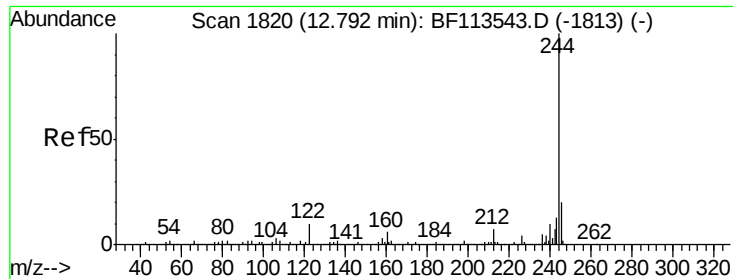
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.9  | 8.8   | 13.2  |
| 236     | 25.7  | 20.9  | 31.3  |



#77  
 Benzidine  
 Concen: 7.269 ng  
 RT: 12.43 min Scan# 1758  
 Delta R.T. -0.11 min  
 Lab File: BF113760.D  
 Acq: 13 Apr 2019 1:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 15.0  | 13.0  | 19.6  |
| 183     | 1.1   | 9.0   | 13.4# |





#79

Terphenyl-d14

Concen: 7.370 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.03 min

Lab File: BF113760.D

Acq: 13 Apr 2019 1:48

Instrument :

BNA\_F

ClientSampleId :

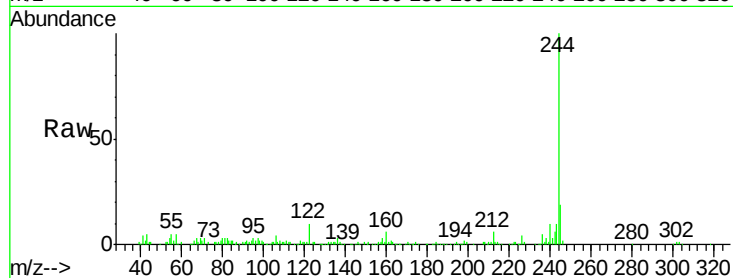
Tot Ion:244 Resp: 108237

Ion Ratio Lower Upper

244 100

212 6.2 5.5 8.3

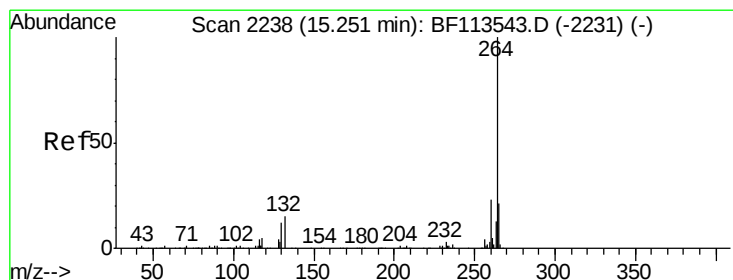
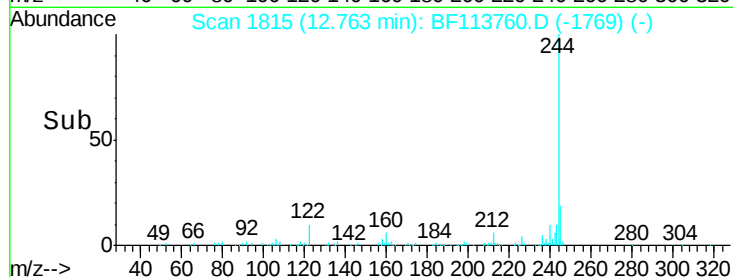
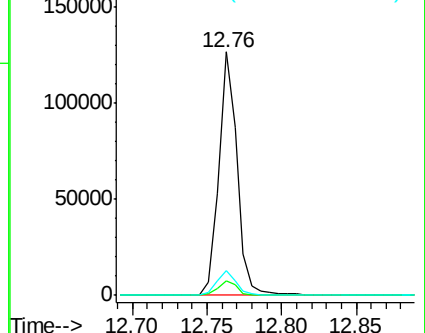
122 10.4 8.6 13.0



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.23 min Scan# 2235

Delta R.T. -0.02 min

Lab File: BF113760.D

Acq: 13 Apr 2019 1:48

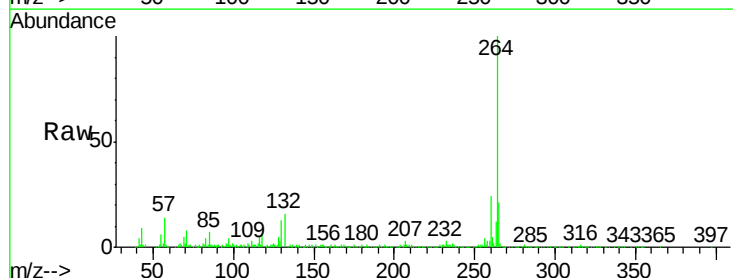
Tgt Ion:264 Resp: 239033

Ion Ratio Lower Upper

264 100

260 23.5 19.1 28.7

265 21.2 17.1 25.7



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

