

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081519\  
 Data File : BF116294.D  
 Acq On : 15 Aug 2019 22:31  
 Operator : HP/JU  
 Sample : K4321-03  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 16 03:11:53 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

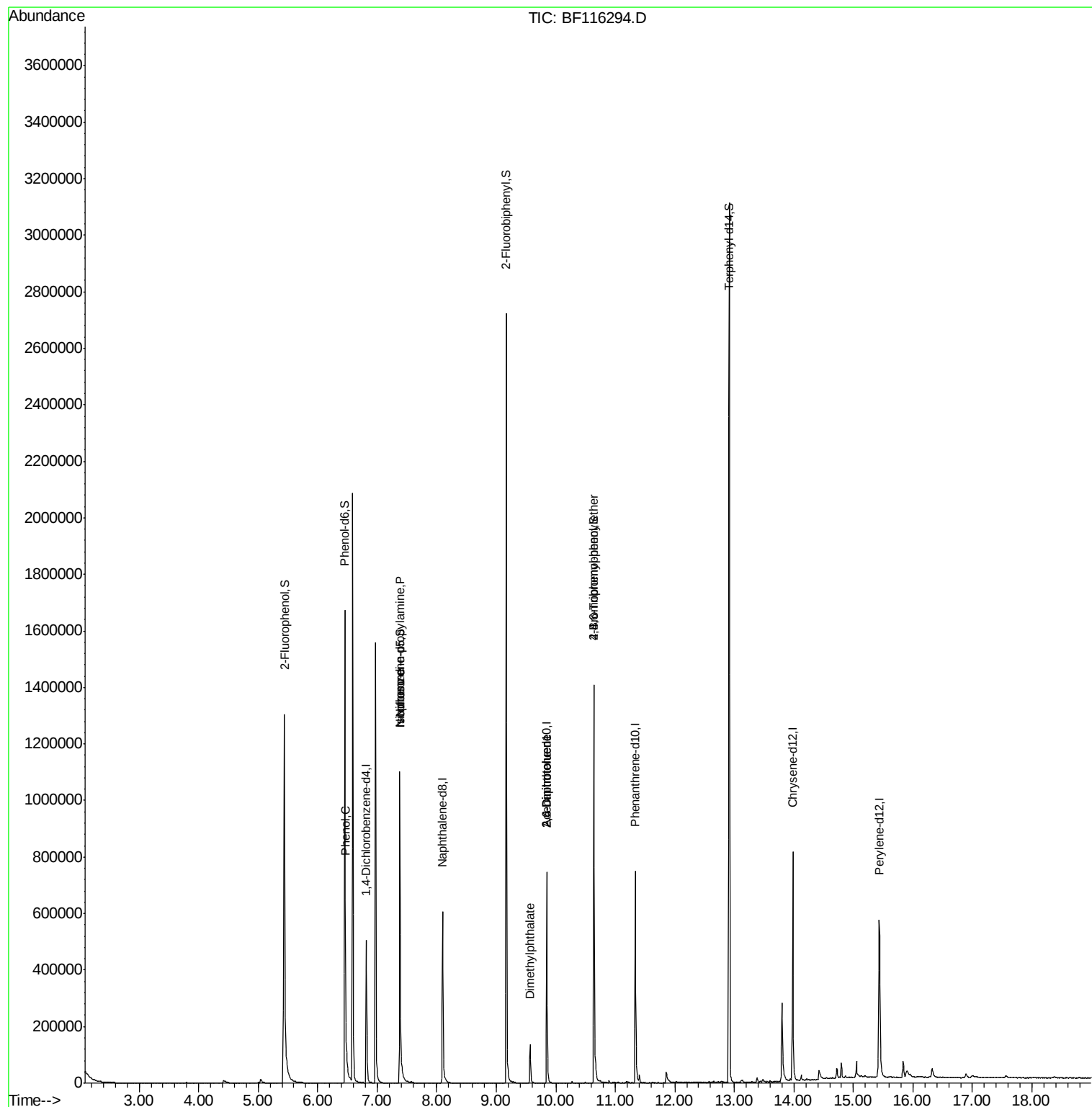
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 83272    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.10  | 136  | 325604   | 20.00  | ng    | -0.03    |
| 39) Acenaphthene-d10           | 9.85  | 164  | 174067   | 20.00  | ng    | -0.04    |
| 64) Phenanthrene-d10           | 11.34 | 188  | 332472   | 20.00  | ng    | -0.03    |
| 76) Chrysene-d12               | 13.98 | 240  | 309120   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 15.43 | 264  | 317545   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 540232   | 108.61 | ng    | -0.03    |
| 7) Phenol-d6                   | 6.46  | 99   | 709613   | 113.07 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.38  | 82   | 445657   | 79.01  | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol       | 10.64 | 330  | 198267   | 117.48 | ng    | -0.04    |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 830888   | 89.41  | ng    | -0.04    |
| 79) Terphenyl-d14              | 12.92 | 244  | 1054138  | 71.86  | ng    | -0.04    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.47  | 94   | 15116    | 2.045  | ng    | # 76     |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70   | 56926    | 14.638 | ng    | # 80     |
| 25) Isophorone                 | 7.38  | 82   | 445655   | 41.318 | ng    | # 65     |
| 50) Dimethylphthalate          | 9.57  | 163  | 70277    | 5.930  | ng    | # 99     |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165  | 21701    | 8.425  | ng    | # 28     |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 21701    | 6.328  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 12392    | 3.482  | ng    | # 1      |

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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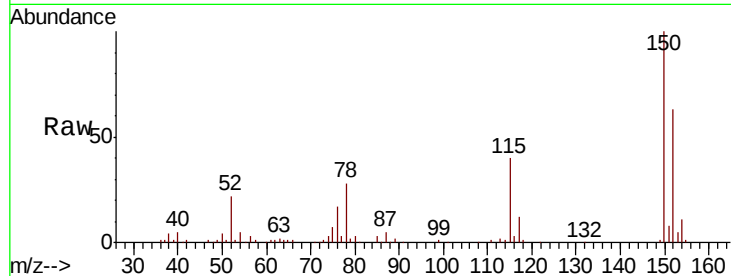


#1

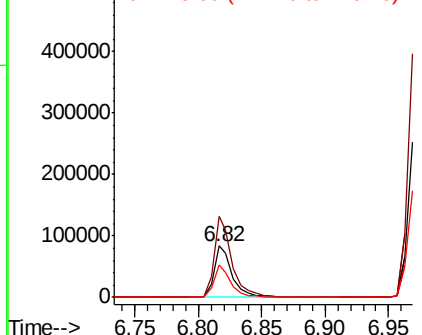
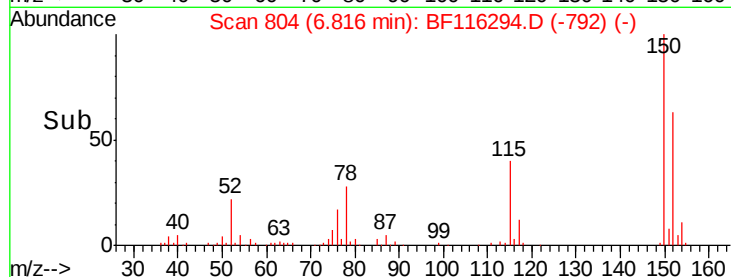
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.82 min Scan# 804  
 Delta R.T. -0.03 min  
 Lab File: BF116294.D  
 Acq: 15 Aug 2019 22:31

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 83272  
 Ion Ratio Lower Upper  
 152 100  
 150 157.6 126.2 189.2  
 115 63.2 49.9 74.9



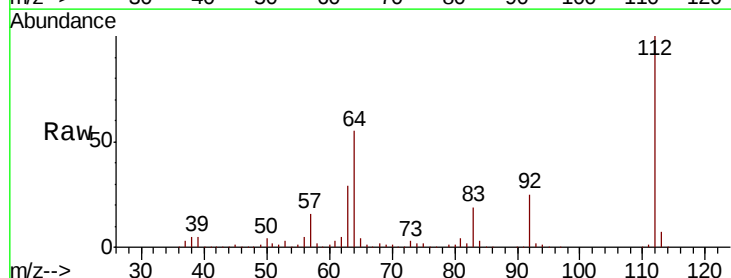
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



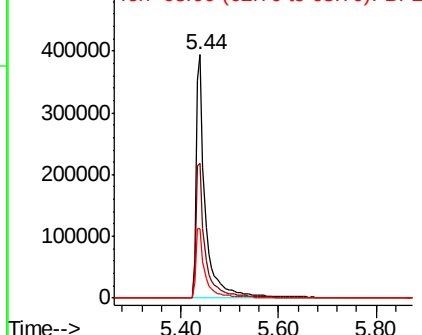
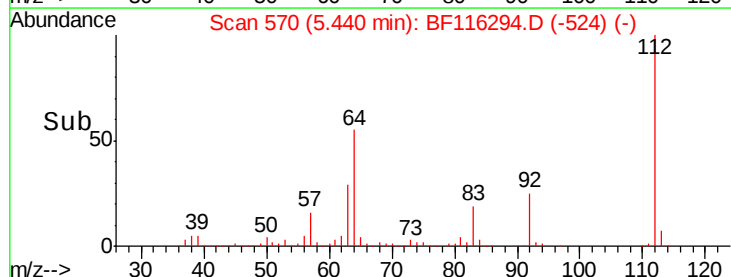
#5

2-Fluorophenol  
 Concen: 108.606 ng  
 RT: 5.44 min Scan# 570  
 Delta R.T. -0.03 min  
 Lab File: BF116294.D  
 Acq: 15 Aug 2019 22:31

Tgt Ion:112 Resp: 540232  
 Ion Ratio Lower Upper  
 112 100  
 64 55.3 45.4 68.2  
 63 28.6 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: 113.070 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116294.D

Acq: 15 Aug 2019 22:31

Instrument :

BNA\_F

ClientSampleId :

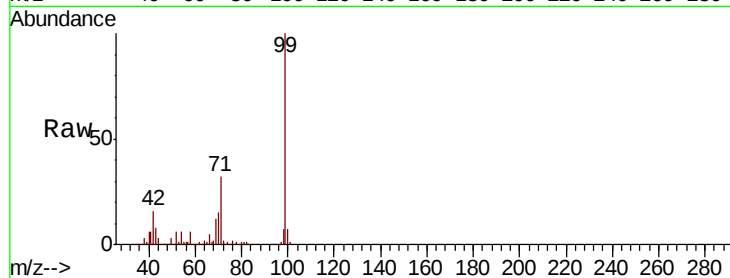
Tot Ion: 99 Resp: 709613

Ion Ratio Lower Upper

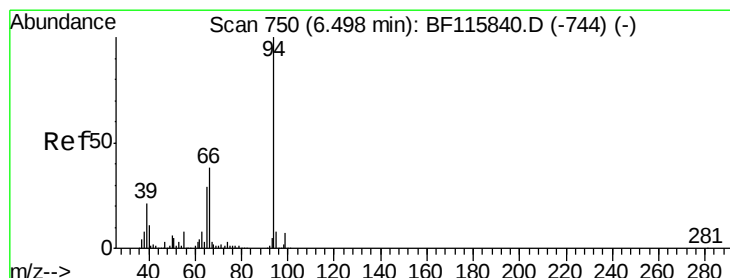
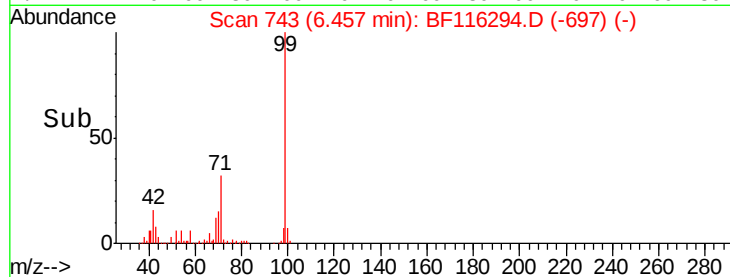
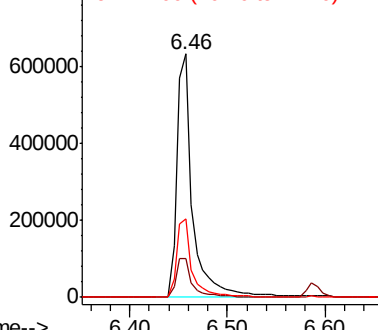
99 100

42 15.9 13.8 20.8

71 32.1 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



#10

Phenol

Concen: 2.045 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.04 min

Lab File: BF116294.D

Acq: 15 Aug 2019 22:31

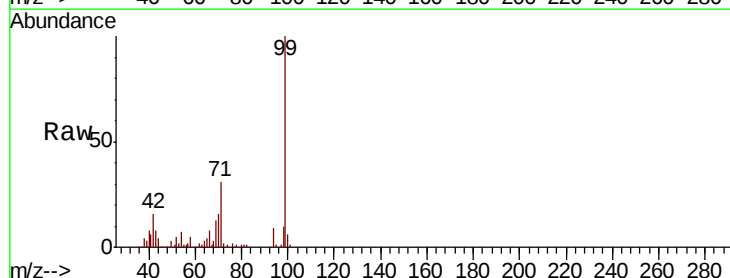
Tgt Ion: 94 Resp: 15116

Ion Ratio Lower Upper

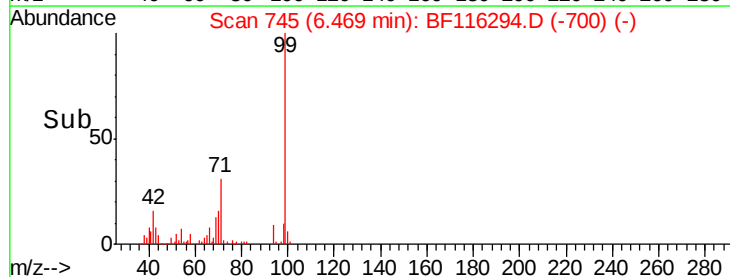
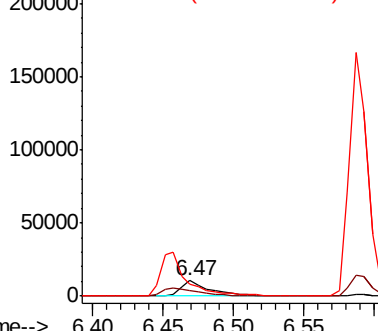
94 100

65 39.8 16.8 56.8

66 81.0 34.2 74.2#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

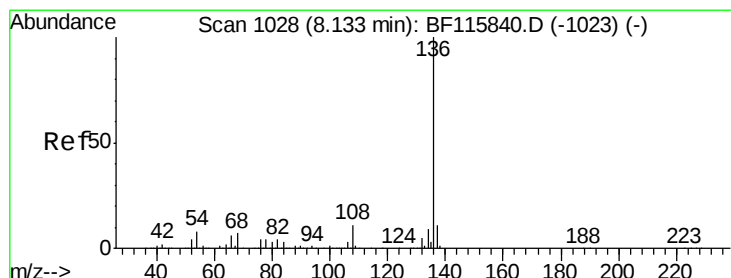
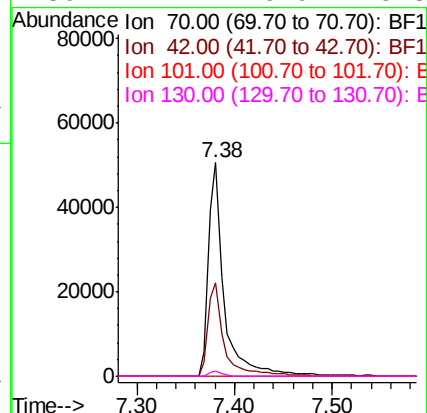
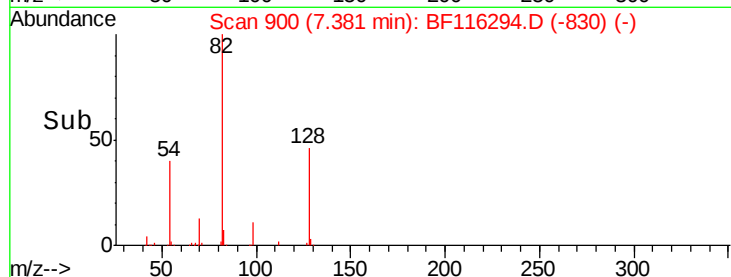
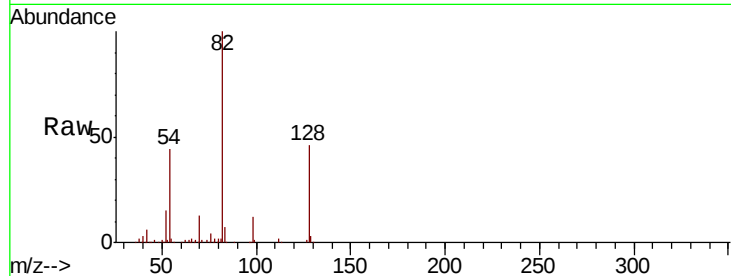




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.638 ng  
RT: 7.38 min Scan# 900  
Delta R.T. 0.11 min  
Lab File: BF116294.D  
Acq: 15 Aug 2019 22:31

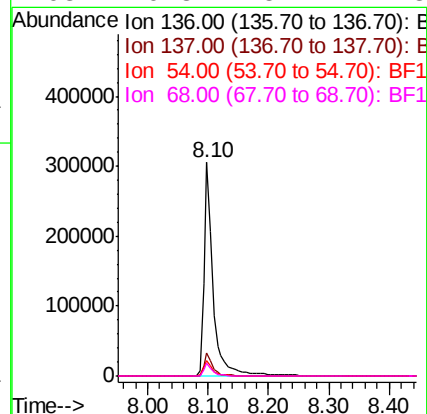
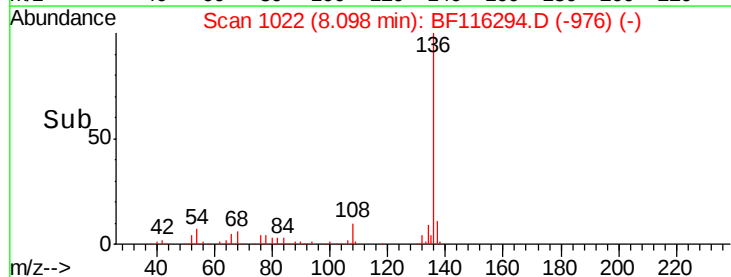
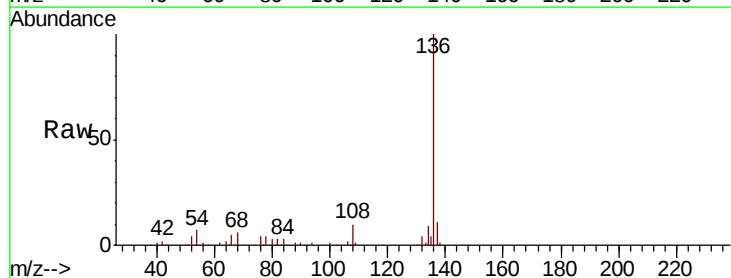
Instrument :  
BNA\_F  
ClientSampleId :

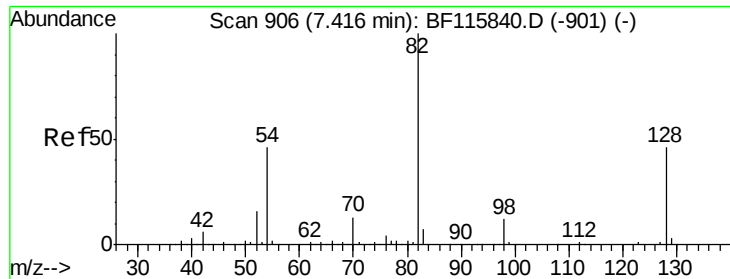
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 44.0  | 40.9  | 61.3  |
| 101     | 0.0   | 7.9   | 11.9# |
| 130     | 2.1   | 16.9  | 25.3# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1022  
Delta R.T. -0.03 min  
Lab File: BF116294.D  
Acq: 15 Aug 2019 22:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.1  | 9.0   | 13.4  |
| 54      | 7.0   | 5.8   | 8.6   |
| 68      | 6.3   | 5.2   | 7.8   |

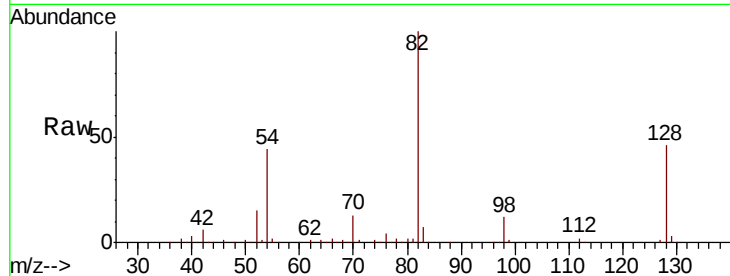




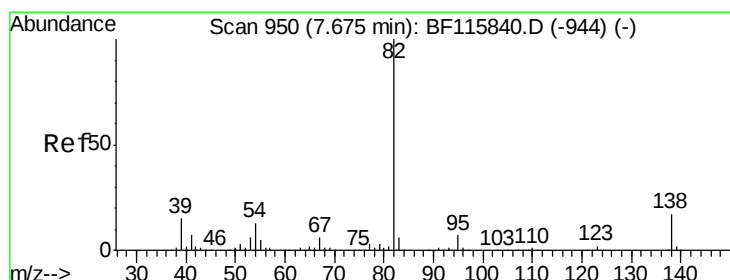
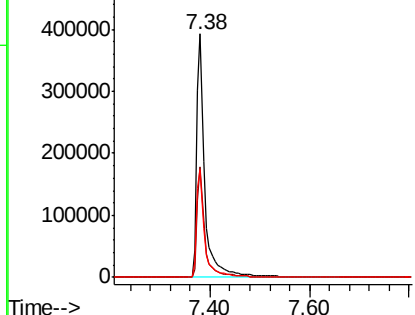
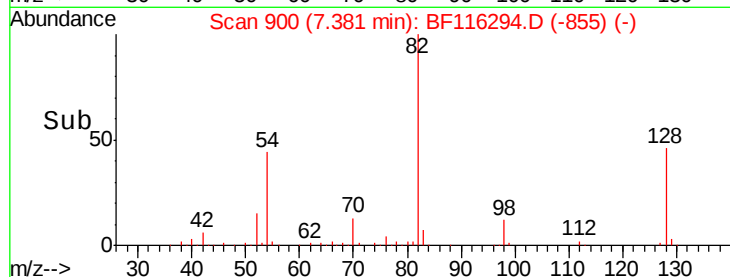
#23  
Nitrobenzene-d5  
Concen: 79.006 ng  
RT: 7.38 min Scan# 900  
Delta R.T. -0.04 min  
Lab File: BF116294.D  
Acq: 15 Aug 2019 22:31

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 445657  
Ion Ratio Lower Upper  
82 100  
128 45.6 36.5 54.7  
54 44.4 36.0 54.0

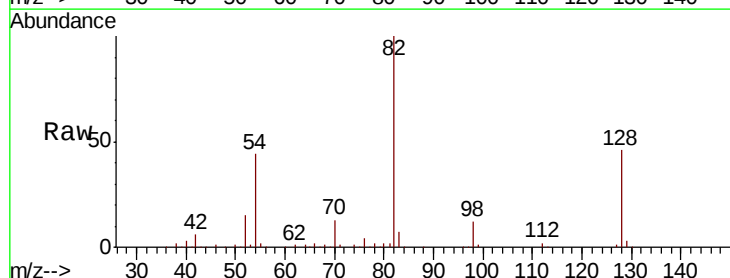


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

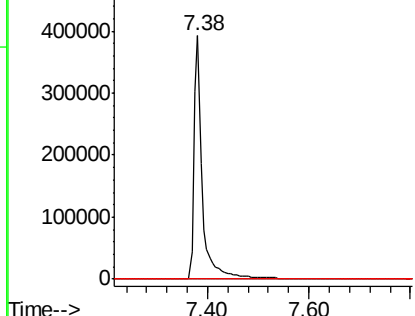
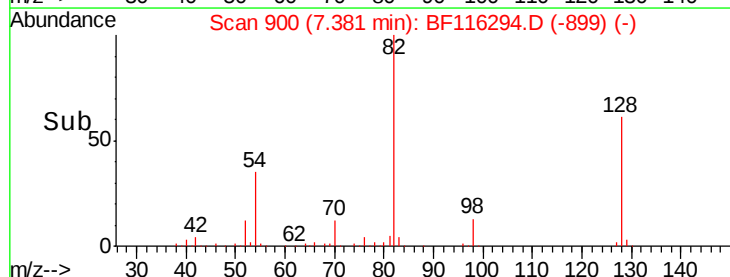


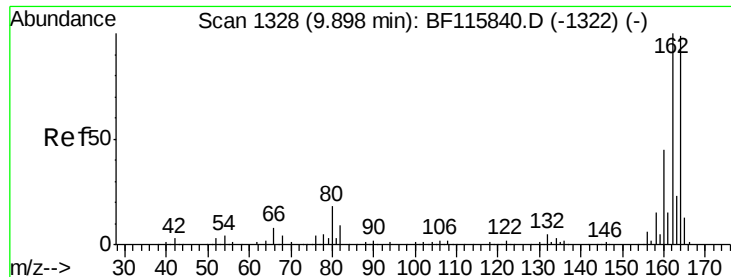
#25  
Isophorone  
Concen: 41.318 ng  
RT: 7.38 min Scan# 900  
Delta R.T. -0.29 min  
Lab File: BF116294.D  
Acq: 15 Aug 2019 22:31

Tgt Ion: 82 Resp: 445655  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.0#  
138 0.0 14.5 21.7#



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.04 min

Lab File: BF116294.D

Acq: 15 Aug 2019 22:31

Instrument :

BNA\_F

ClientSampleId :

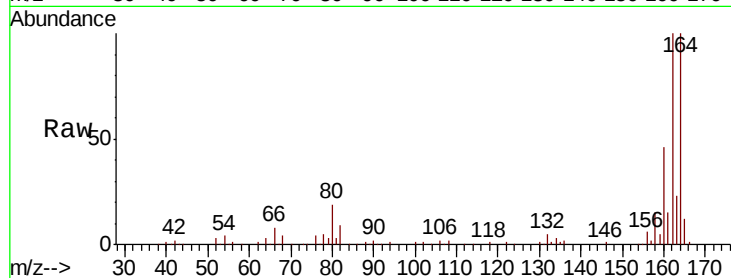
Tot Ion:164 Resp: 174067

Ion Ratio Lower Upper

164 100

162 99.9 82.6 124.0

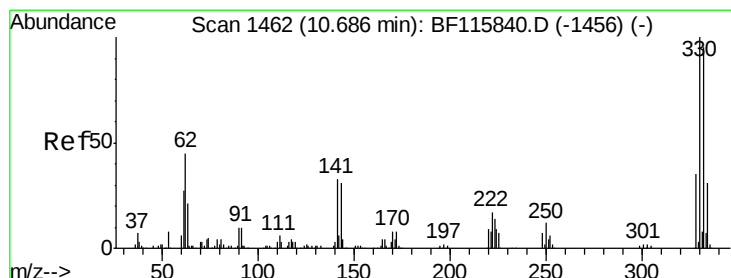
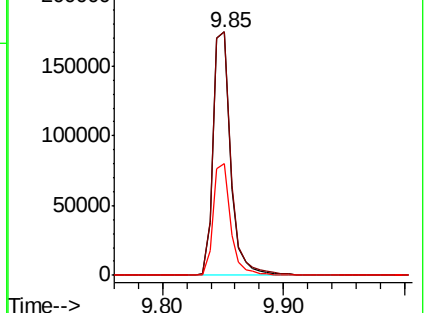
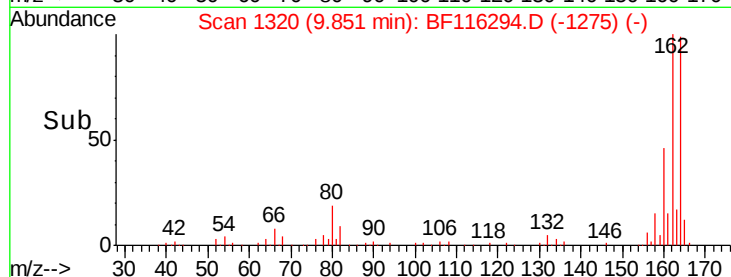
160 46.2 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 117.483 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.04 min

Lab File: BF116294.D

Acq: 15 Aug 2019 22:31

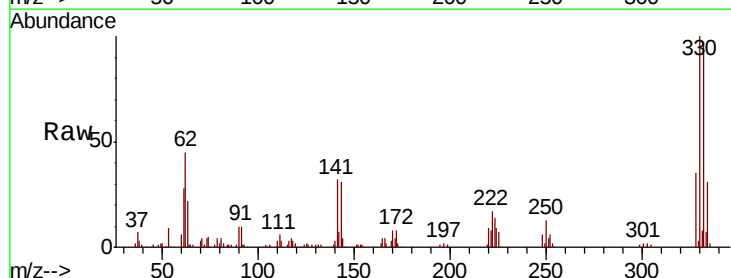
Tgt Ion:330 Resp: 198267

Ion Ratio Lower Upper

330 100

332 97.1 76.8 115.2

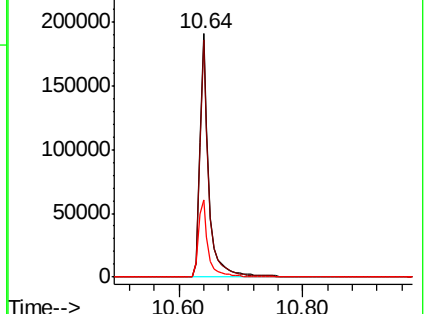
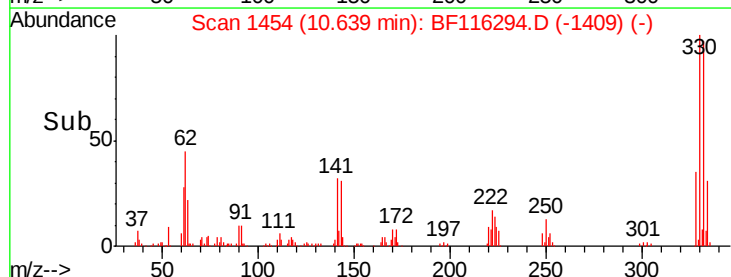
141 34.1 26.3 39.5



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

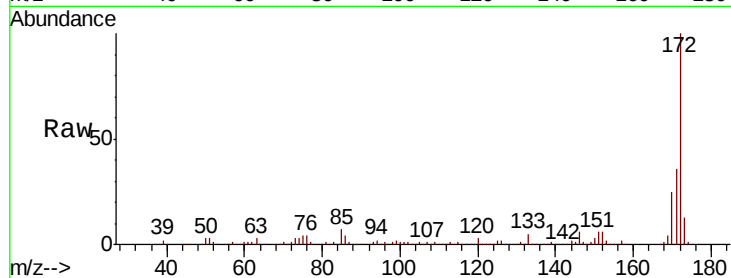




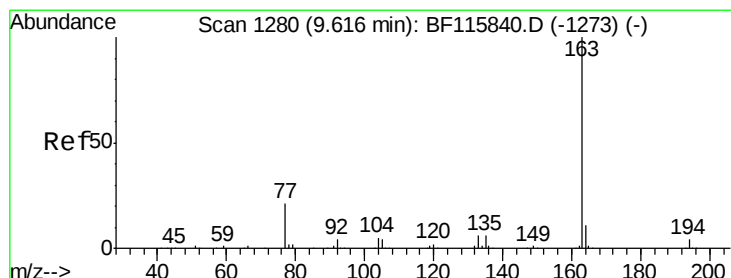
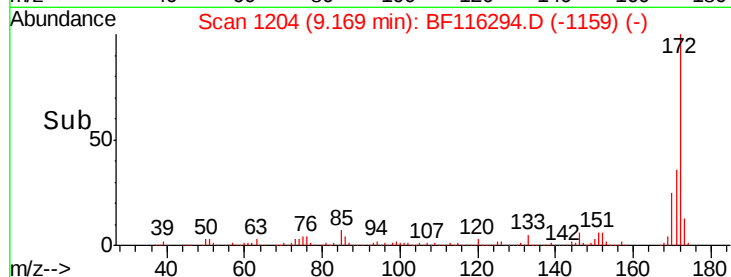
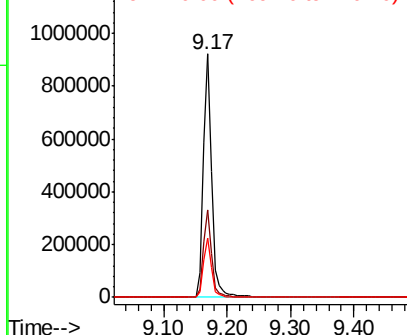
#45  
2-Fluorobiphenyl  
Concen: 89.409 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. -0.04 min  
Lab File: BF116294.D  
Acq: 15 Aug 2019 22:31

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 830888  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.6 44.4  
170 24.6 20.1 30.1

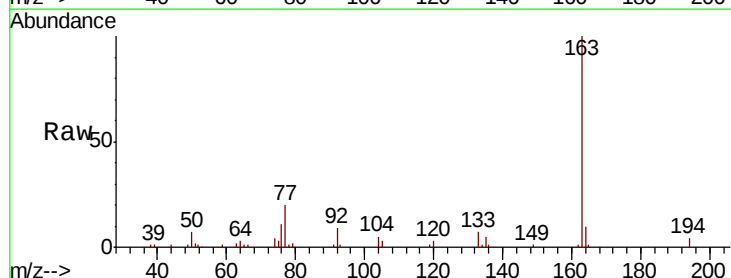


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

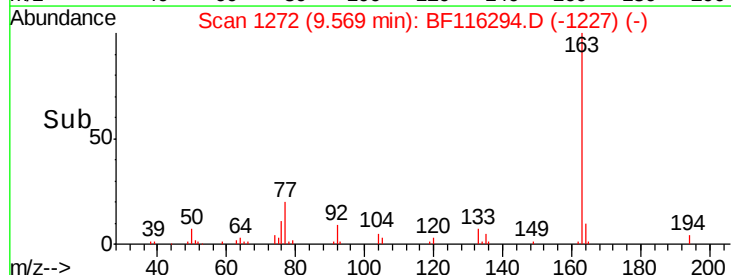
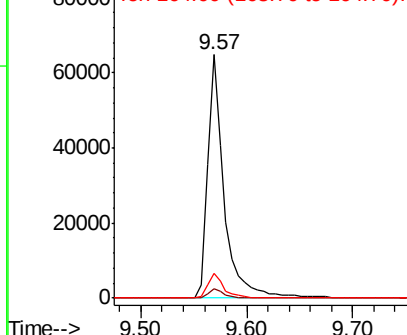


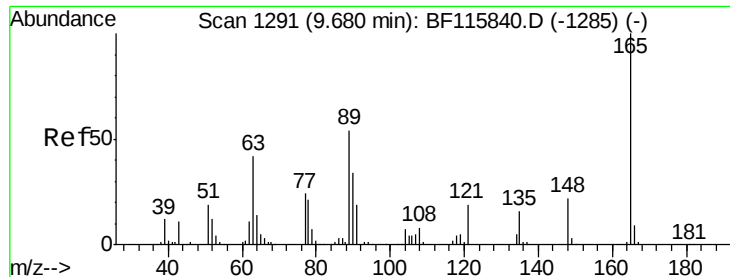
#50  
Dimethylphthalate  
Concen: 5.930 ng  
RT: 9.57 min Scan# 1272  
Delta R.T. -0.04 min  
Lab File: BF116294.D  
Acq: 15 Aug 2019 22:31

Tgt Ion:163 Resp: 70277  
Ion Ratio Lower Upper  
163 100  
194 3.8 3.0 4.6  
164 10.0 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

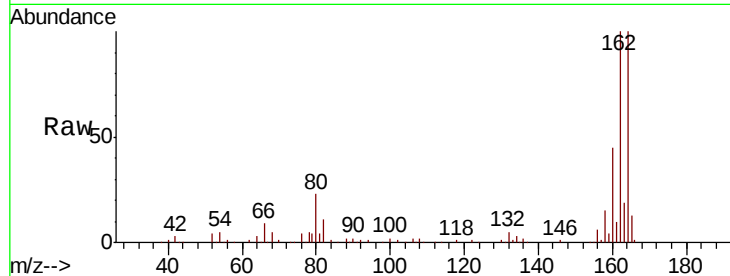




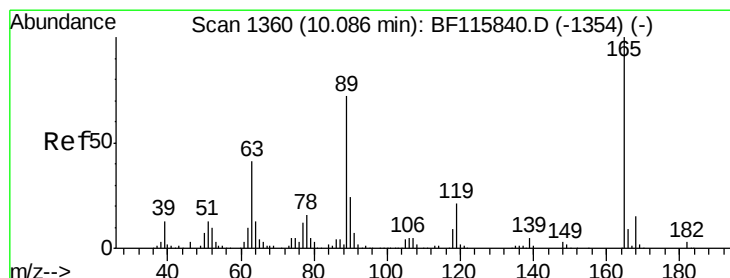
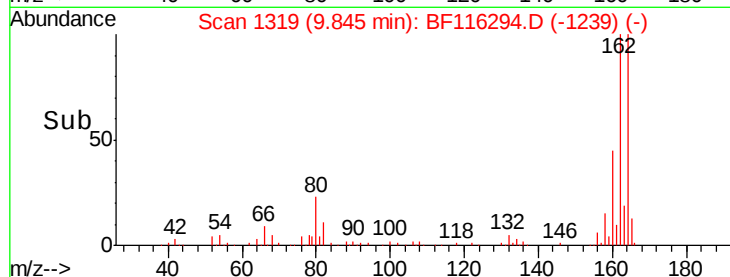
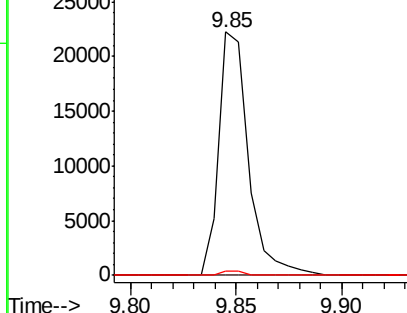
#51  
 2,6-Dinitrotoluene  
 Concen: 8.425 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.17 min  
 Lab File: BF116294.D  
 Acq: 15 Aug 2019 22:31

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 38.2  | 57.2# |
| 89      | 1.6   | 42.9  | 64.3# |



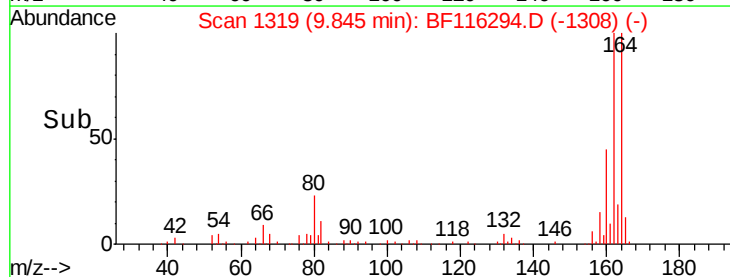
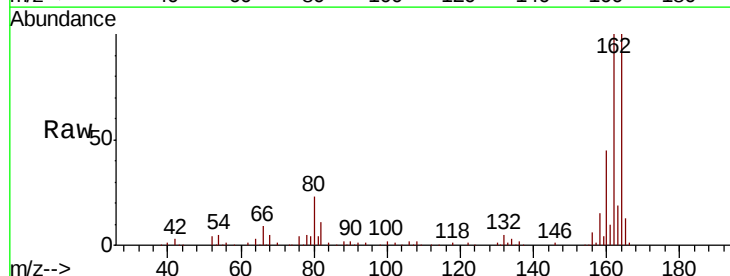
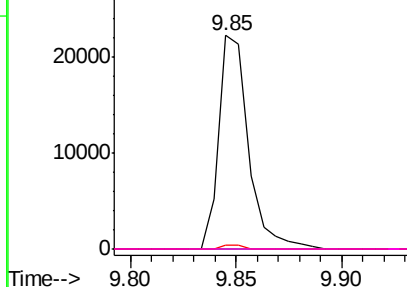
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

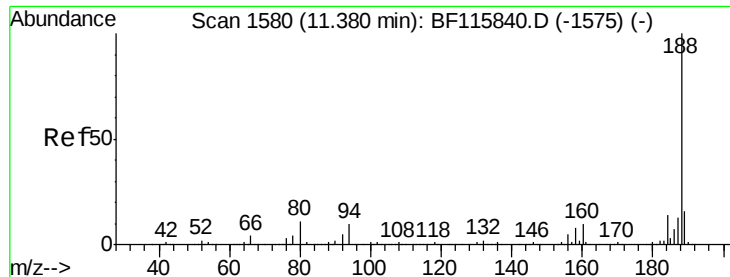


#57  
 2,4-Dinitrotoluene  
 Concen: 6.328 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.24 min  
 Lab File: BF116294.D  
 Acq: 15 Aug 2019 22:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 39.6  | 59.4# |
| 89      | 1.6   | 62.2  | 93.2# |
| 182     | 0.0   | 2.1   | 3.1#  |

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.03 min

Lab File: BF116294.D

Acq: 15 Aug 2019 22:31

Instrument :

BNA\_F

ClientSampleId :

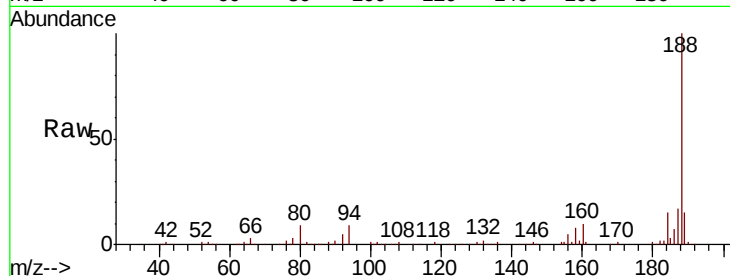
Tot Ion:188 Resp: 332472

Ion Ratio Lower Upper

188 100

94 9.1 8.1 12.1

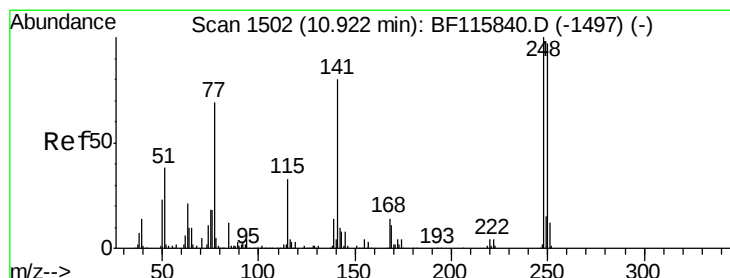
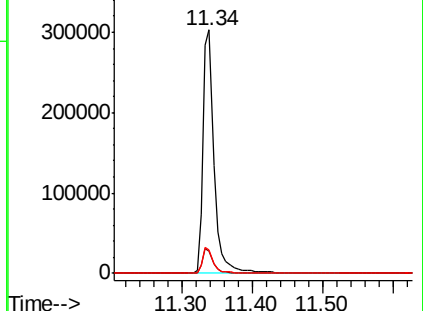
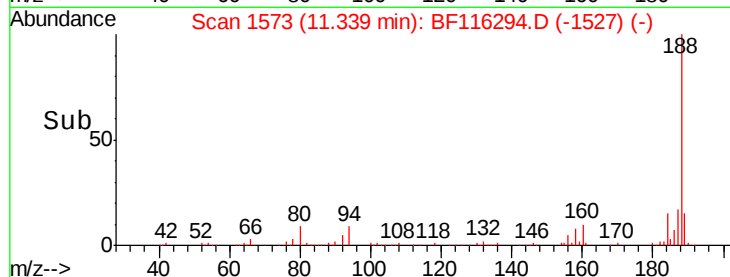
80 9.5 8.7 13.1



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



#67

4-Bromophenyl-phenylether

Concen: 3.482 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.27 min

Lab File: BF116294.D

Acq: 15 Aug 2019 22:31

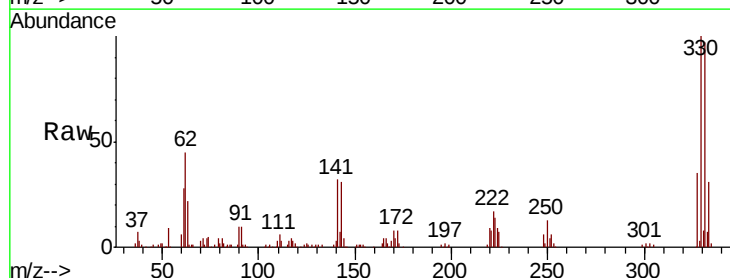
Tgt Ion:248 Resp: 12392

Ion Ratio Lower Upper

248 100

250 193.2 77.4 116.2#

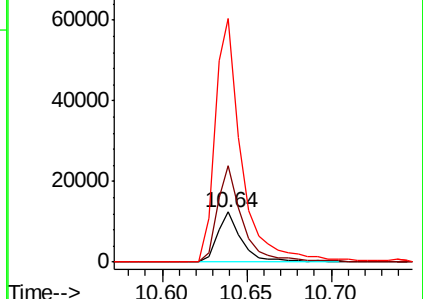
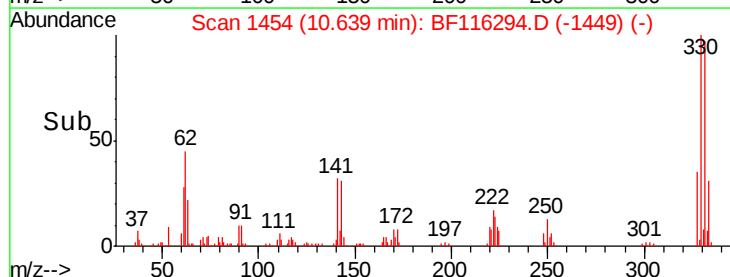
141 488.6 56.8 85.2#

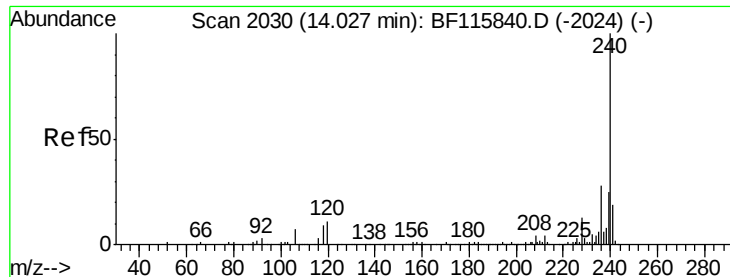


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

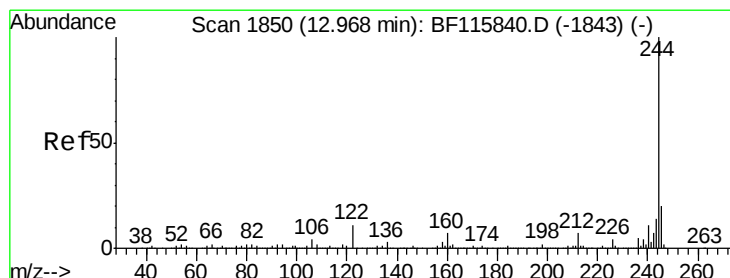
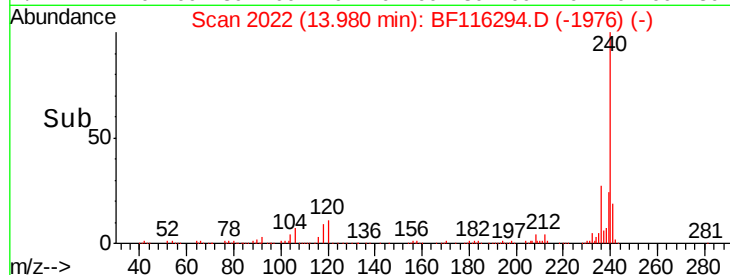
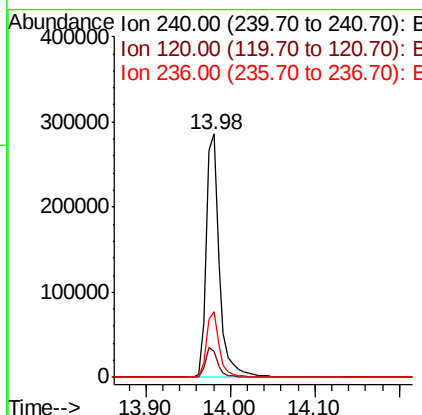
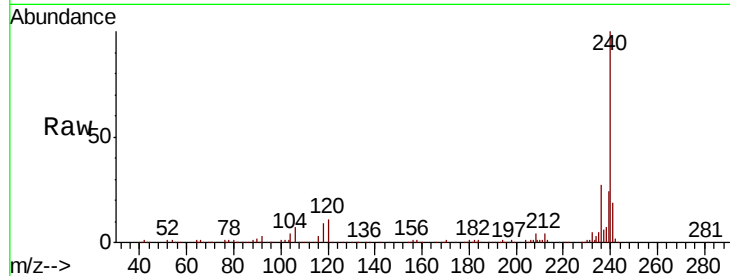




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 13.98 min Scan# 2022  
 Delta R.T. -0.03 min  
 Lab File: BF116294.D  
 Acq: 15 Aug 2019 22:31

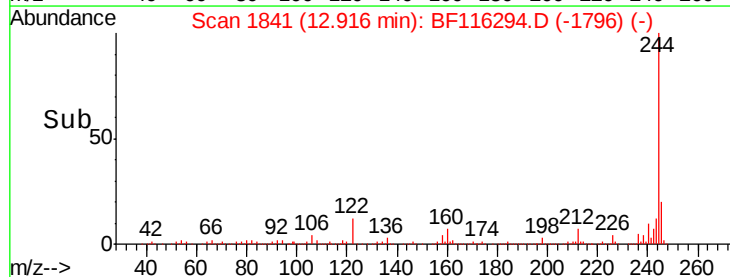
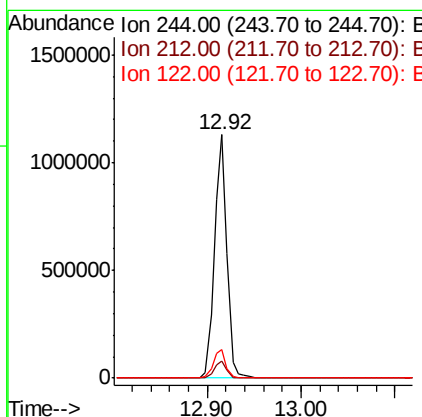
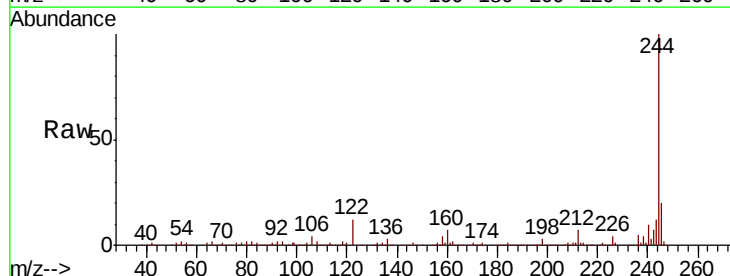
Instrument :  
 BNA\_F  
 ClientSampleId :

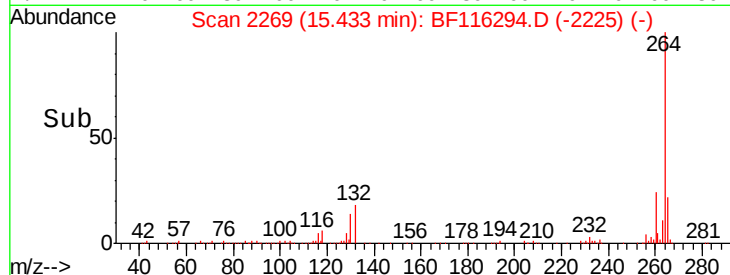
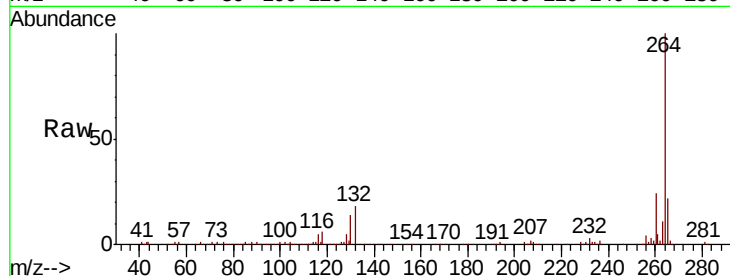
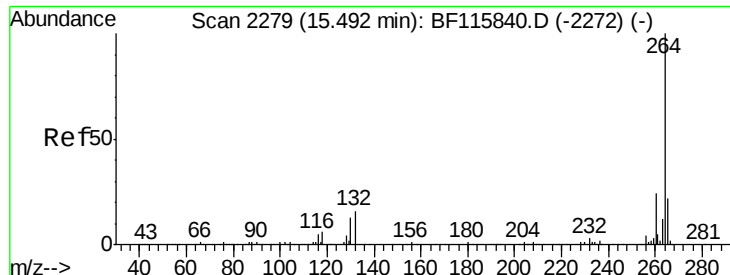
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.6  | 10.7  | 16.1# |
| 236     | 27.2  | 22.2  | 33.2  |



#79  
 Terphenyl-d14  
 Concen: 71.857 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.04 min  
 Lab File: BF116294.D  
 Acq: 15 Aug 2019 22:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 5.8   | 8.8   |
| 122     | 11.6  | 9.0   | 13.4  |





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.43 min Scan# 2269  
 Delta R.T. -0.04 min  
 Lab File: BF116294.D  
 Acq: 15 Aug 2019 22:31

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 317545 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.5  | 19.7  | 29.5   |
| 265      | 22.0  | 17.4  | 26.0   |

