

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052919\  
 Data File : BF114644.D  
 Acq On : 29 May 2019 20:30  
 Operator : HP/JU  
 Sample : K3068-08  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-4W(3-4)

Quant Time: May 30 04:25:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 19:08:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.69  | 152  | 290250   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.97  | 136  | 1115961  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.72  | 164  | 555358   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.19 | 188  | 1126158  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.81 | 240  | 938923   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.20 | 264  | 865184   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.30  | 112  | 1705800  | 103.18 | ng    | 0.00     |
| 7) Phenol-d6                | 6.33  | 99   | 2112538  | 106.04 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.25  | 82   | 1278760  | 71.49  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.50 | 330  | 591396   | 111.76 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.05  | 172  | 2272343  | 74.97  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.77 | 244  | 2707760  | 54.22  | ng    | 0.00     |

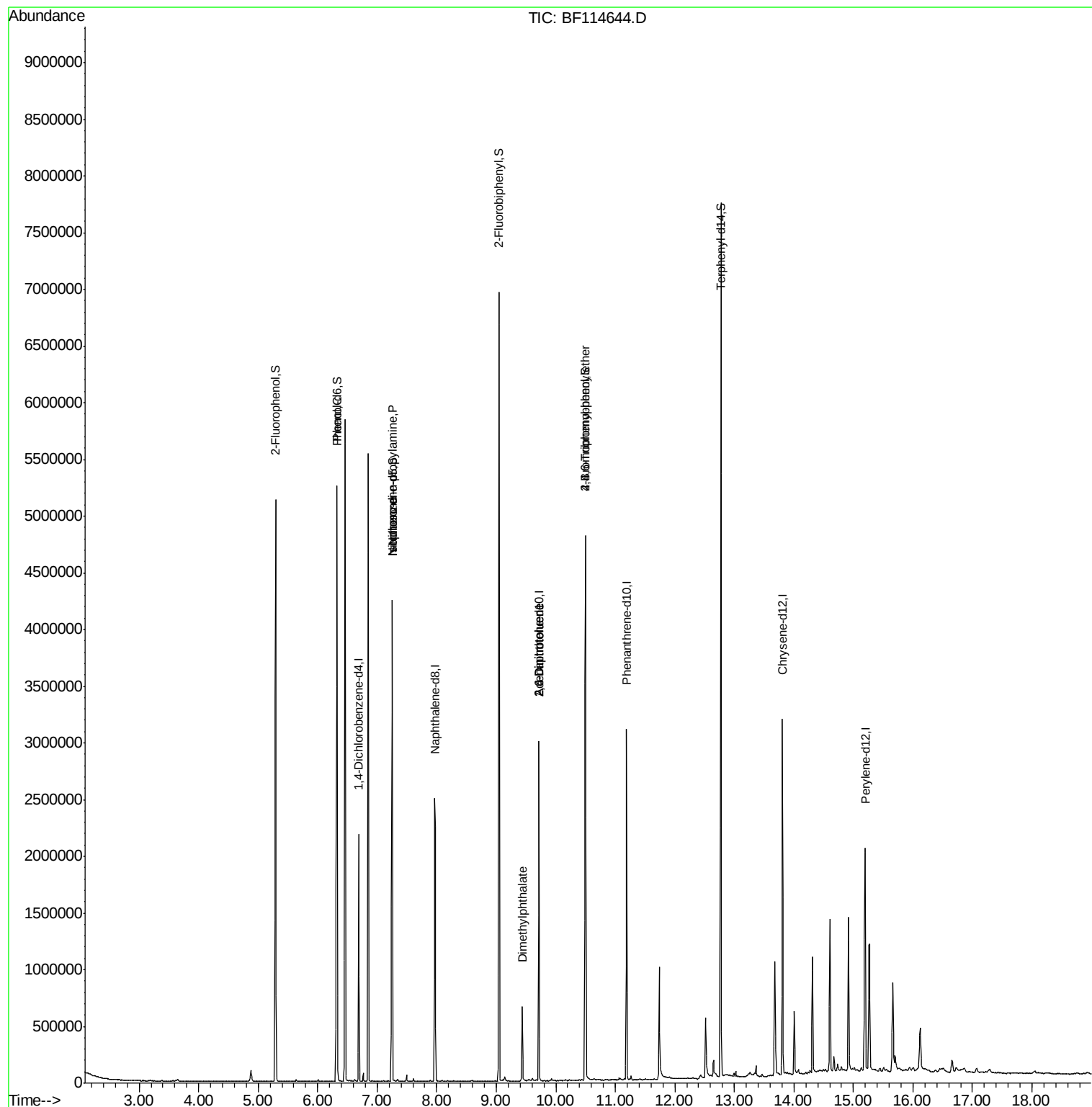
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.33  | 77   | 4730     | Below Cal | #     | 1      |
| 10) Phenol                     | 6.33  | 94   | 66264    | 2.753     | ng    | 92     |
| 19) n-Nitroso-di-n-propylamine | 7.25  | 70   | 177345   | 12.897    | ng    | 76     |
| 25) Isophorone                 | 7.25  | 82   | 1271728  | 35.427    | ng    | 63     |
| 50) Dimethylphthalate          | 9.44  | 163  | 244841   | 6.327     | ng    | 98     |
| 51) 2,6-Dinitrotoluene         | 9.72  | 165  | 73676    | 8.193     | ng    | 31     |
| 57) 2,4-Dinitrotoluene         | 9.72  | 165  | 73676    | 6.384     | ng    | 23     |
| 58) Fluorene                   | 10.50 | 166  | 27174    | Below Cal | #     | 84     |
| 61) 4-Chlorophenyl-phenylether | 10.06 | 204  | 118      | Below Cal | #     | 27     |
| 67) 4-Bromophenyl-phenylether  | 10.50 | 248  | 37703    | 3.122     | ng    | 1      |
| 74) Di-n-butylphthalate        | 11.76 | 149  | 2746     | Below Cal | #     | 76     |

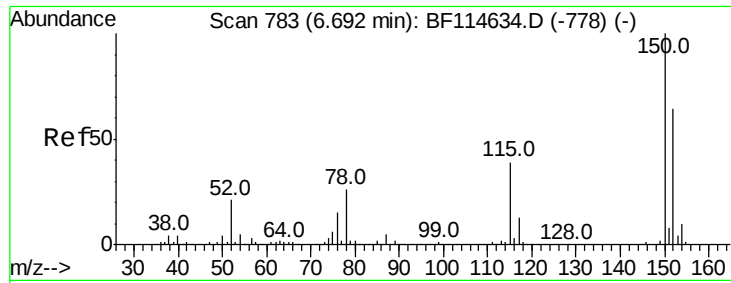
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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B-4W(3-4)

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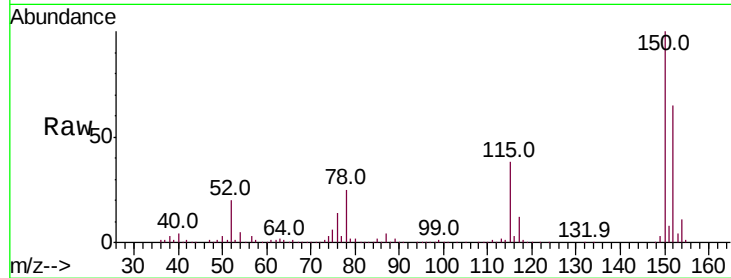


#1

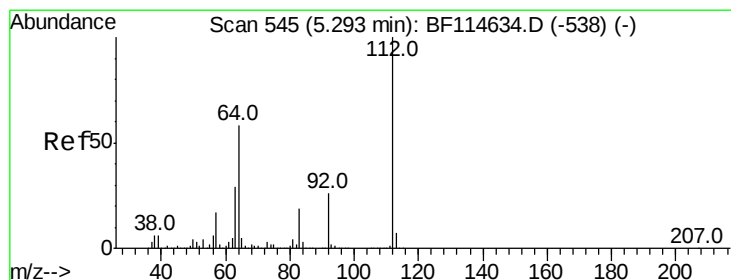
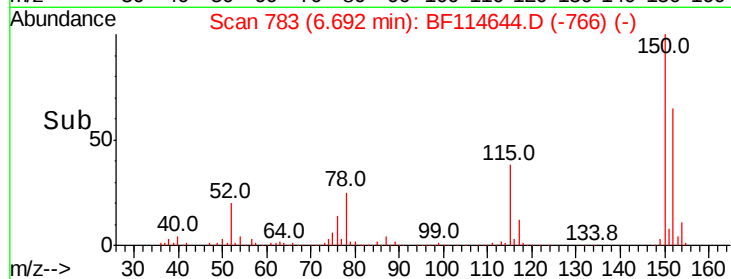
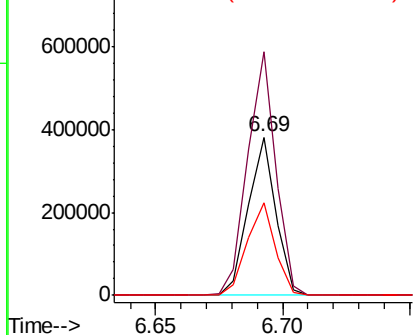
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.69 min Scan# 783  
 Delta R.T. -0.00 min  
 Lab File: BF114644.D  
 Acq: 29 May 2019 20:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-4W(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.1 | 124.4 | 186.6 |
| 115     | 58.8  | 48.7  | 73.1  |



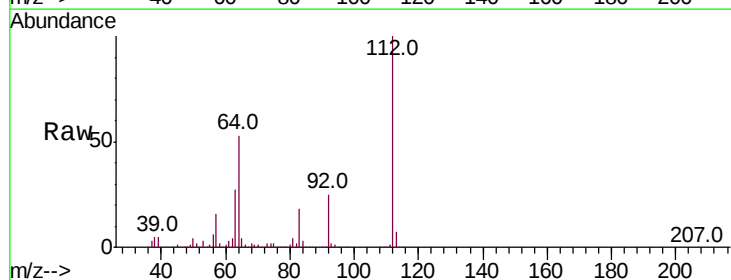
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



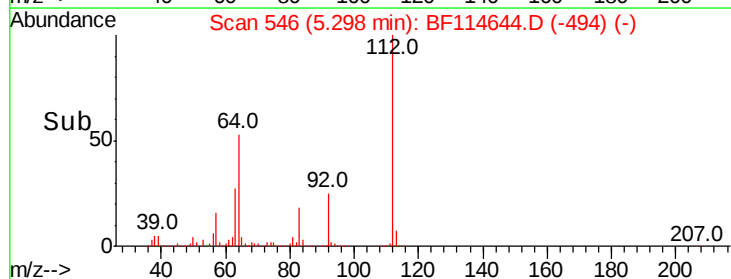
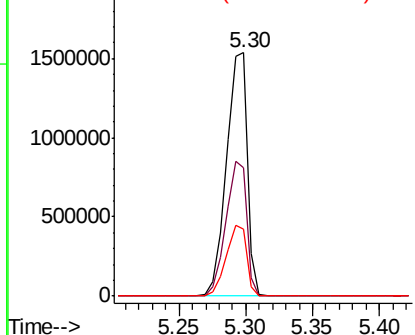
#5

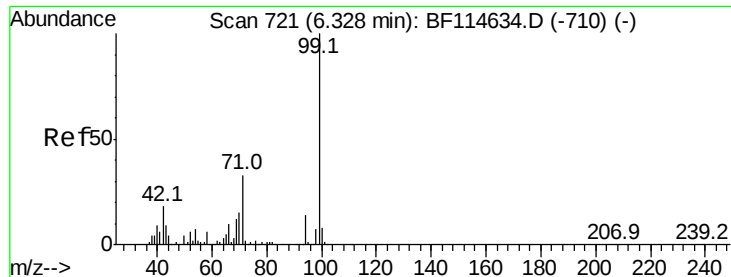
2-Fluorophenol  
 Concen: 103.183 ng  
 RT: 5.30 min Scan# 546  
 Delta R.T. 0.01 min  
 Lab File: BF114644.D  
 Acq: 29 May 2019 20:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.6  | 46.1  | 69.1  |
| 63      | 27.4  | 23.4  | 35.2  |



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: 106.044 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.00 min

Lab File: BF114644.D

Acq: 29 May 2019 20:30

Instrument :

BNA\_F

ClientSampleId :

B-4W(3-4)

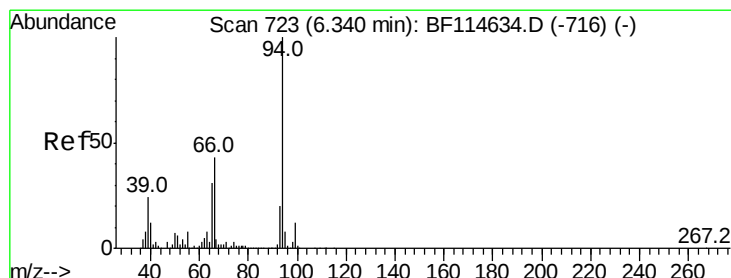
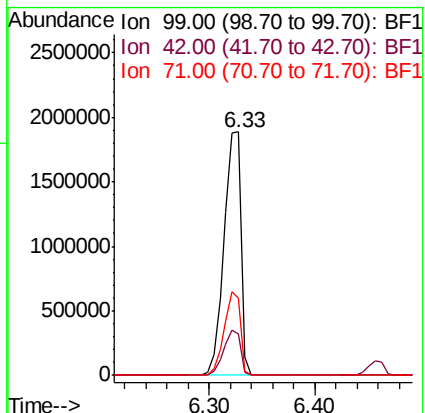
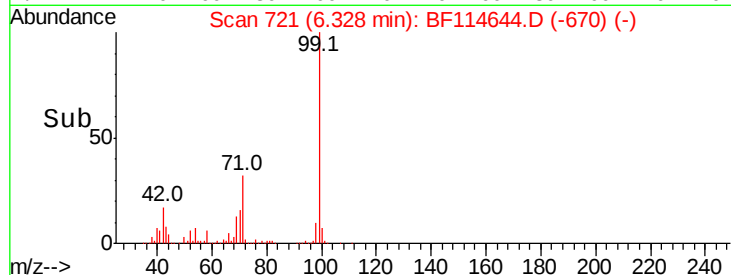
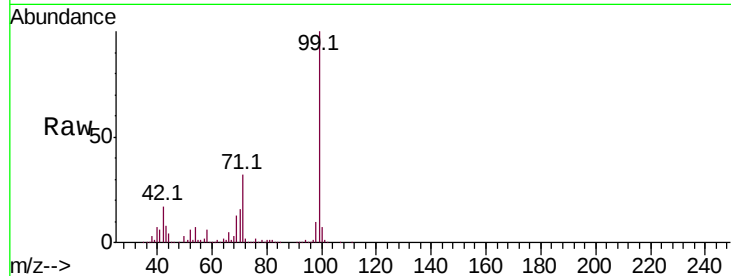
Tot Ion: 99 Resp: 2112538

Ion Ratio Lower Upper

99 100

42 16.8 14.7 22.1

71 31.9 26.6 40.0



#10

Phenol

Concen: 2.753 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF114644.D

Acq: 29 May 2019 20:30

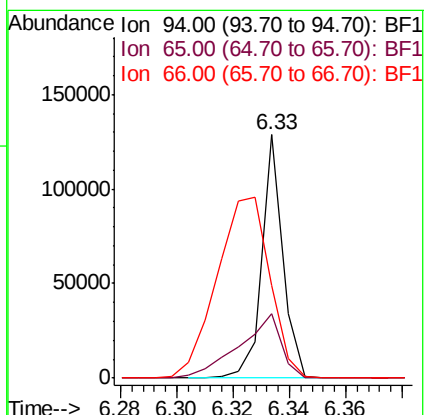
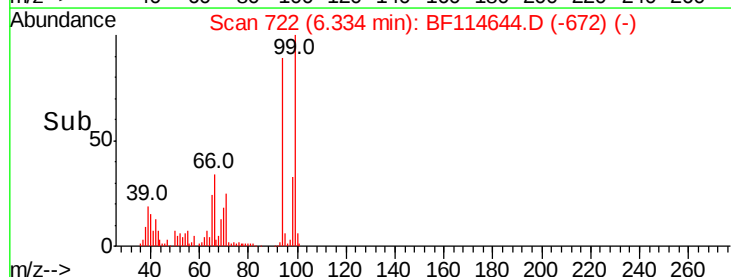
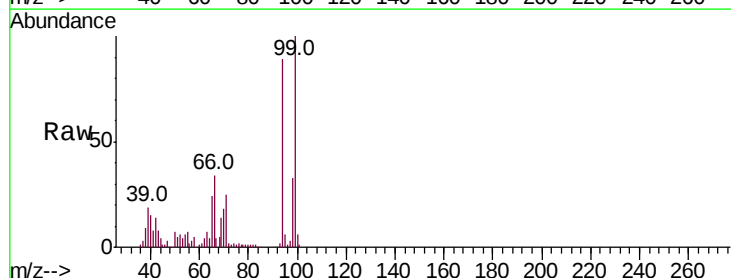
Tgt Ion: 94 Resp: 66264

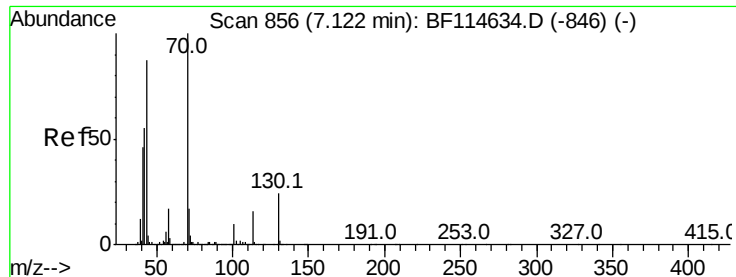
Ion Ratio Lower Upper

94 100

65 26.5 11.0 51.0

66 38.1 23.0 63.0

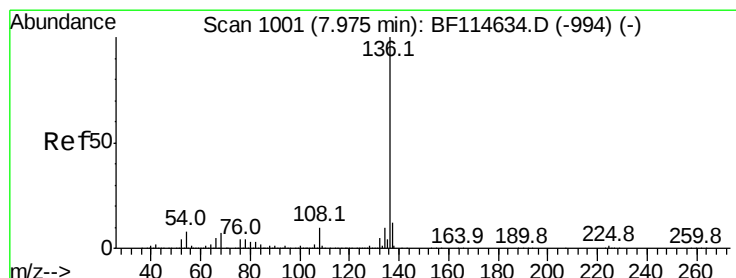
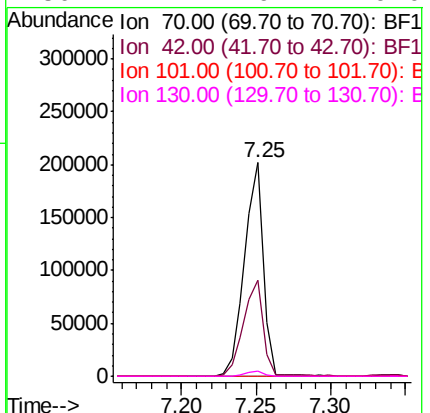
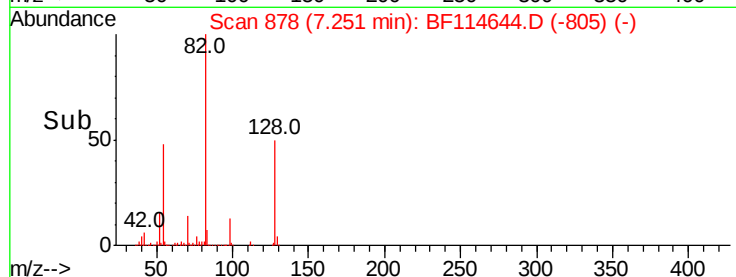
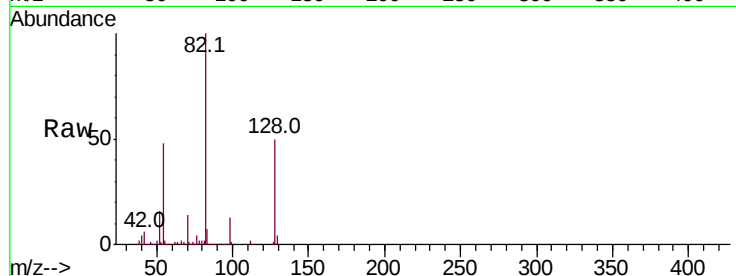




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.897 ng  
RT: 7.25 min Scan# 878  
Delta R.T. 0.13 min  
Lab File: BF114644.D  
Acq: 29 May 2019 20:30

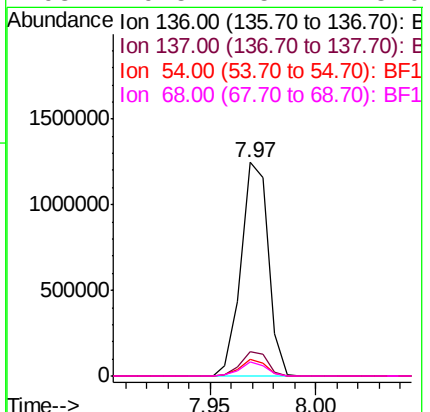
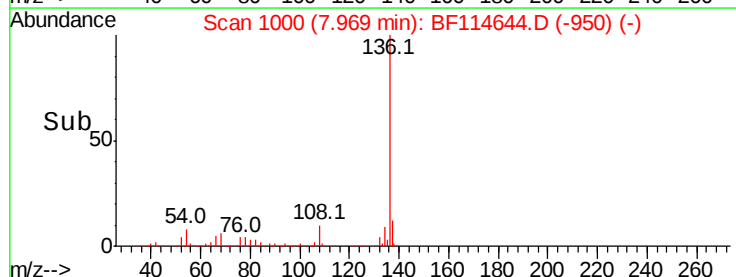
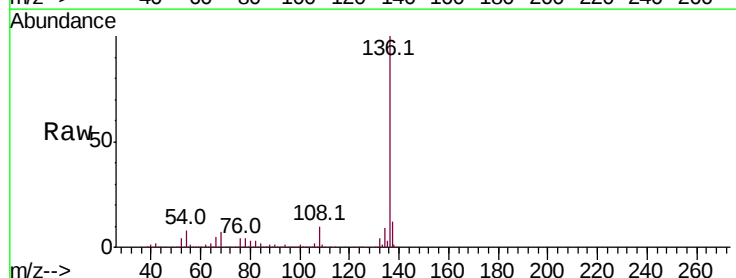
Instrument :  
BNA\_F  
ClientSampleId :  
B-4W(3-4)

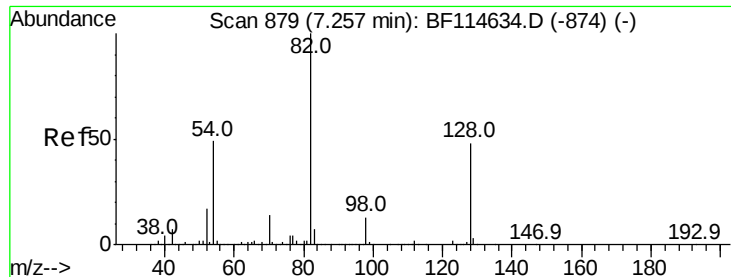
Tot Ion: 70 Resp: 177345  
Ion Ratio Lower Upper  
70 100  
42 45.1 44.4 66.6  
101 0.0 8.2 12.4#  
130 2.2 19.4 29.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.97 min Scan# 1000  
Delta R.T. -0.01 min  
Lab File: BF114644.D  
Acq: 29 May 2019 20:30

Tgt Ion: 136 Resp: 1115961  
Ion Ratio Lower Upper  
136 100  
137 11.6 9.3 13.9  
54 7.9 6.3 9.5  
68 6.5 5.4 8.0

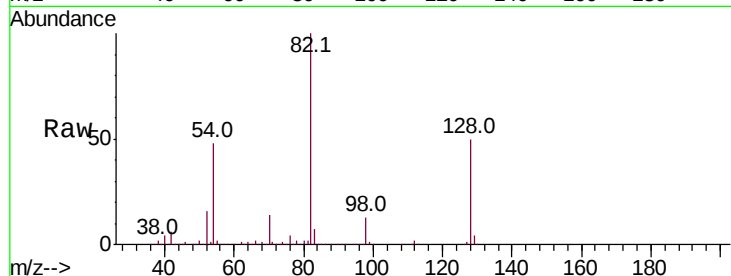




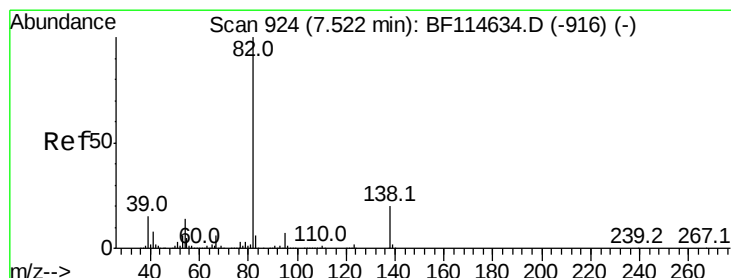
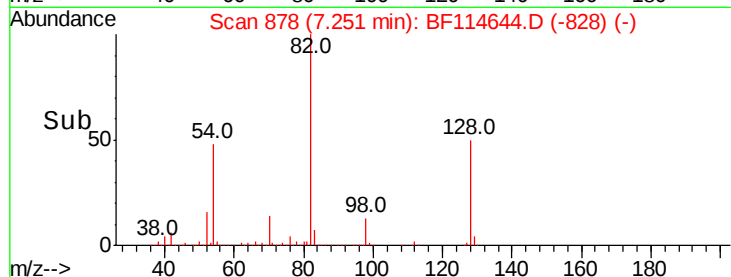
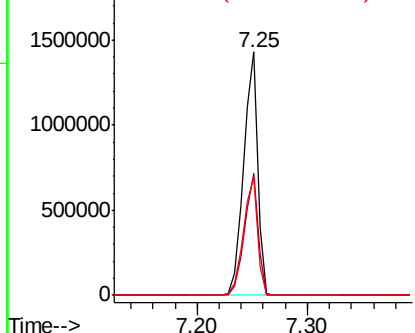
#23  
 Nitrobenzene-d5  
 Concen: 71.491 ng  
 RT: 7.25 min Scan# 878  
 Delta R.T. -0.01 min  
 Lab File: BF114644.D  
 Acq: 29 May 2019 20:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-4W(3-4)

Tot Ion: 82 Resp: 1278760  
 Ion Ratio Lower Upper  
 82 100  
 128 49.9 38.5 57.7  
 54 48.4 39.1 58.7

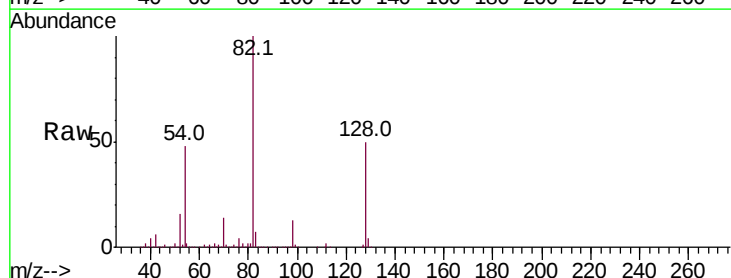


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

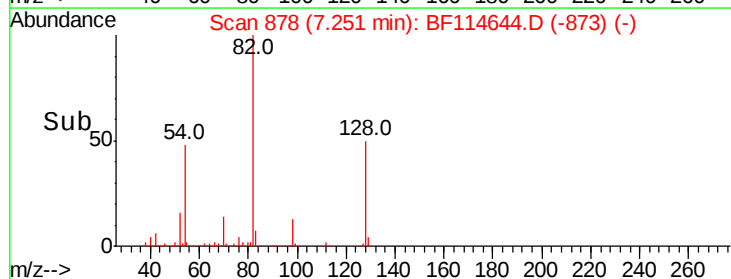
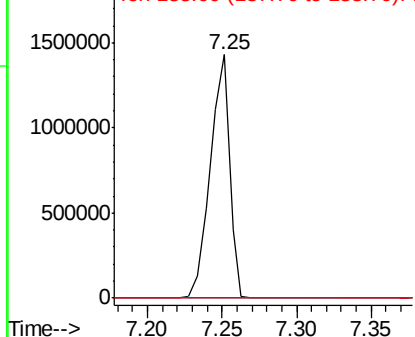


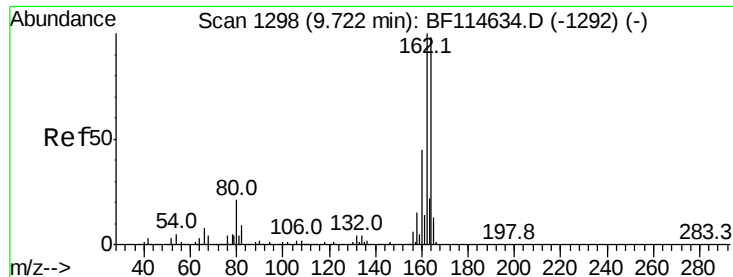
#25  
 Isophorone  
 Concen: 35.427 ng  
 RT: 7.25 min Scan# 878  
 Delta R.T. -0.27 min  
 Lab File: BF114644.D  
 Acq: 29 May 2019 20:30

Tgt Ion: 82 Resp: 1271728  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.6 8.4#  
 138 0.0 15.9 23.9#



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: 9.72 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF114644.D

Acq: 29 May 2019 20:30

Instrument :

BNA\_F

ClientSampleId :

B-4W(3-4)

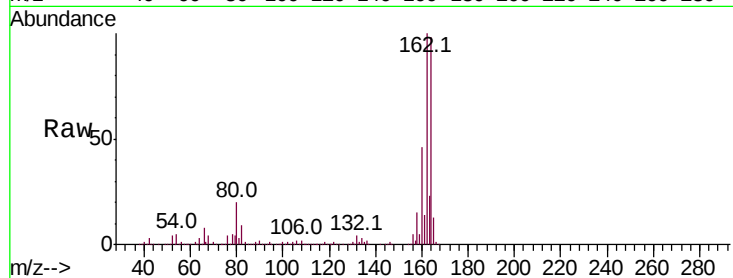
Tot Ion:164 Resp: 555358

Ion Ratio Lower Upper

164 100

162 102.0 81.4 122.2

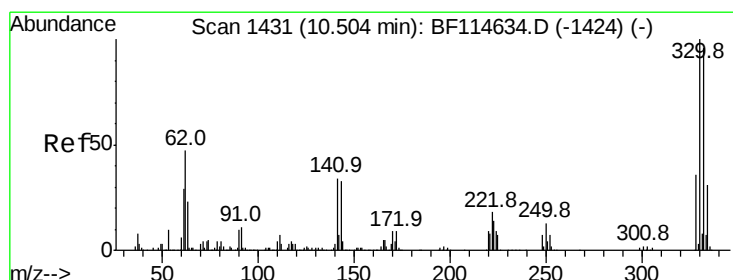
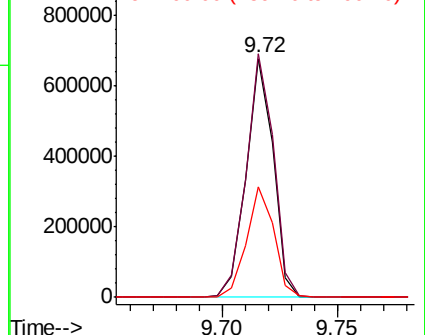
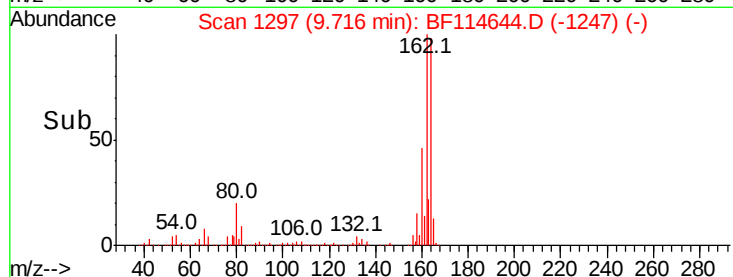
160 46.5 36.6 54.8



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: 111.759 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.01 min

Lab File: BF114644.D

Acq: 29 May 2019 20:30

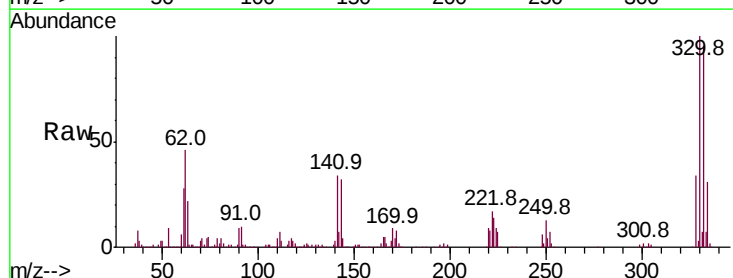
Tgt Ion:330 Resp: 591396

Ion Ratio Lower Upper

330 100

332 94.4 75.8 113.8

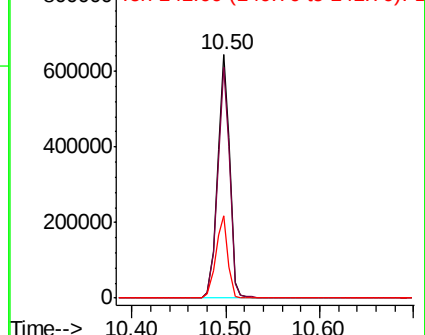
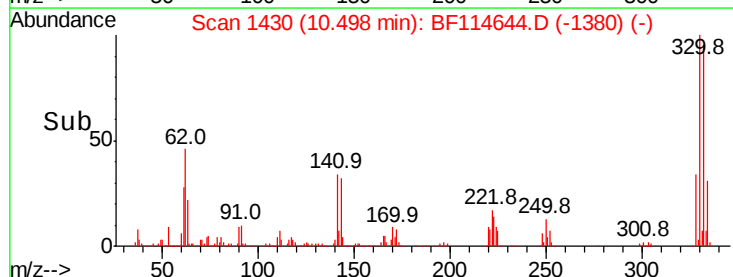
141 33.8 27.8 41.8

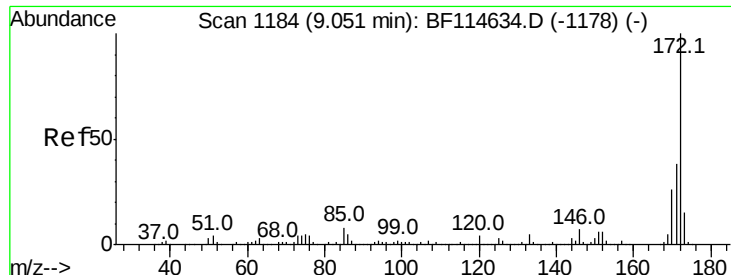


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

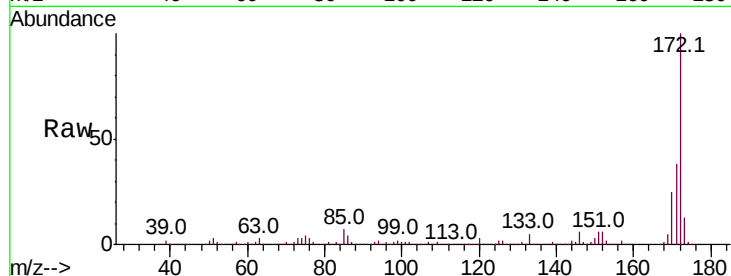




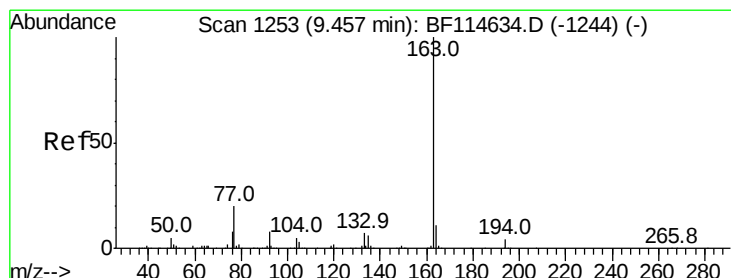
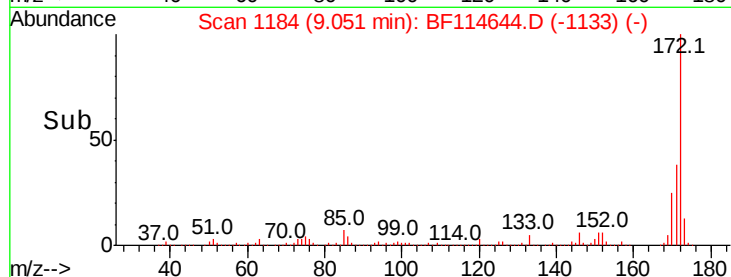
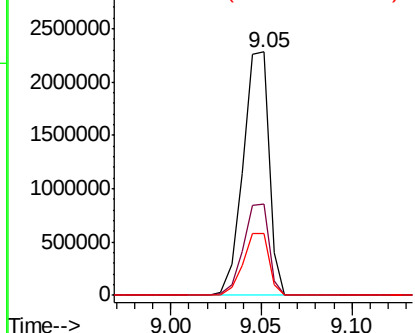
#45  
2-Fluorobiphenyl  
Concen: 74.974 ng  
RT: 9.05 min Scan# 1184  
Delta R.T. 0.00 min  
Lab File: BF114644.D  
Acq: 29 May 2019 20:30

Instrument :  
BNA\_F  
ClientSampleId :  
B-4W(3-4)

Tot Ion:172 Resp: 2272343  
Ion Ratio Lower Upper  
172 100  
171 37.6 30.6 45.8  
170 25.2 20.7 31.1

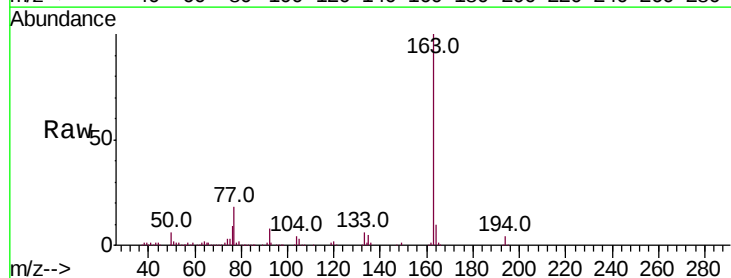


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

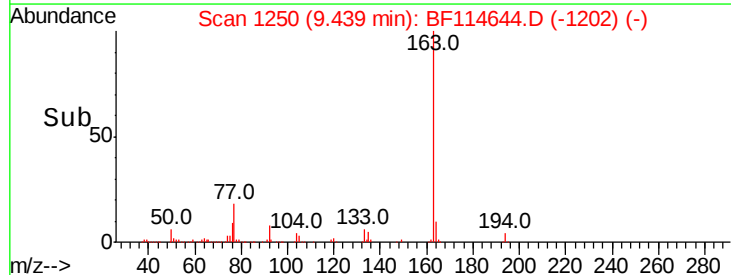
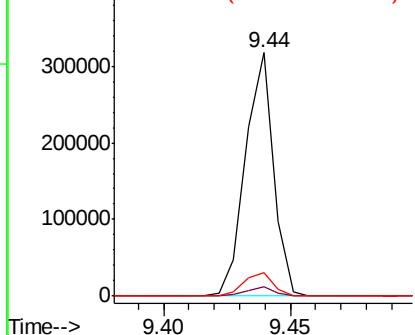


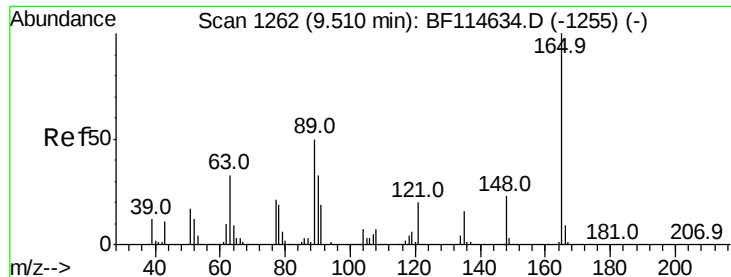
#50  
Dimethylphthalate  
Concen: 6.327 ng  
RT: 9.44 min Scan# 1250  
Delta R.T. -0.02 min  
Lab File: BF114644.D  
Acq: 29 May 2019 20:30

Tgt Ion:163 Resp: 244841  
Ion Ratio Lower Upper  
163 100  
194 3.8 3.4 5.0  
164 9.8 8.6 13.0



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

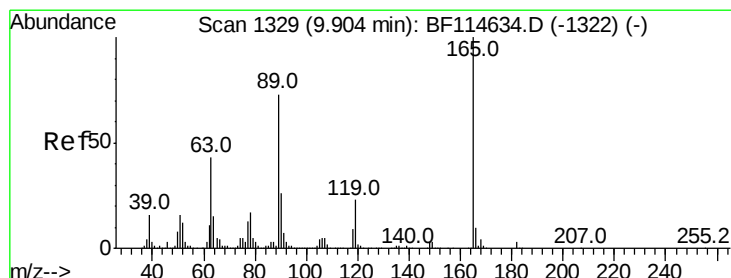
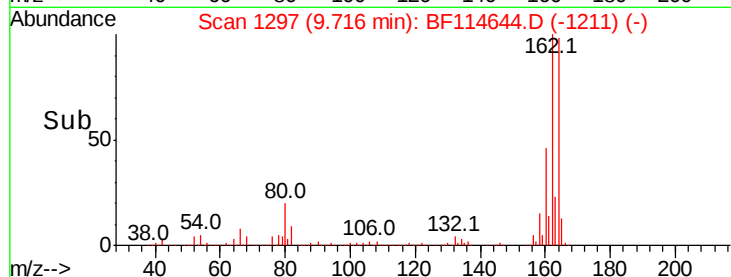
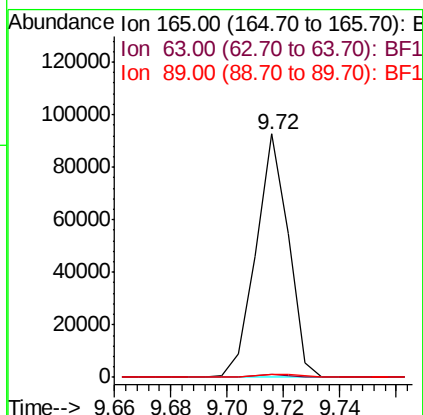
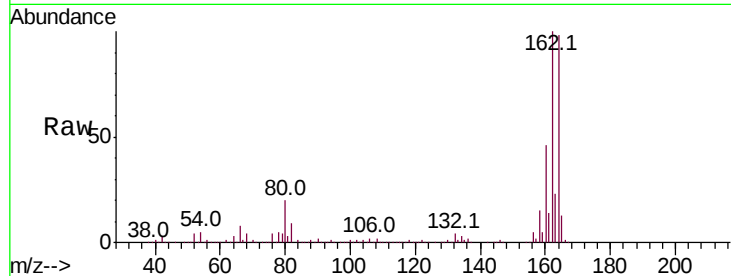




#51  
 2,6-Dinitrotoluene  
 Concen: 8.193 ng  
 RT: 9.72 min Scan# 1297  
 Delta R.T. 0.21 min  
 Lab File: BF114644.D  
 Acq: 29 May 2019 20:30

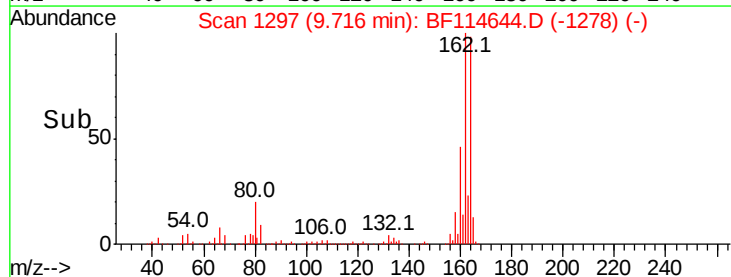
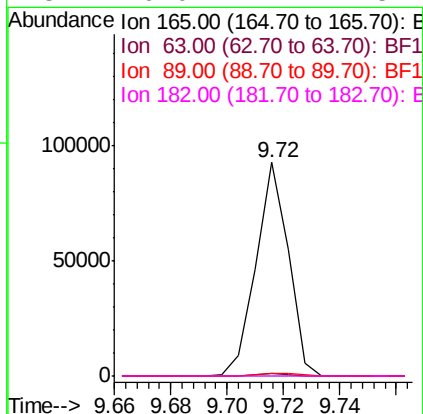
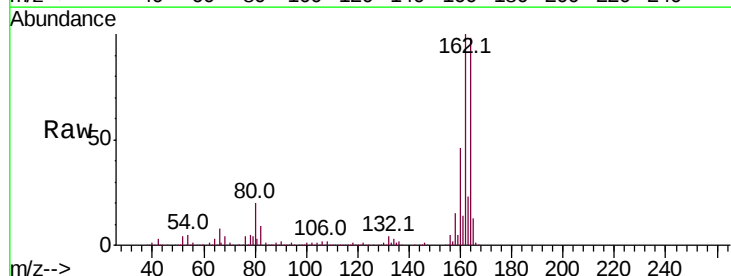
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-4W(3-4)

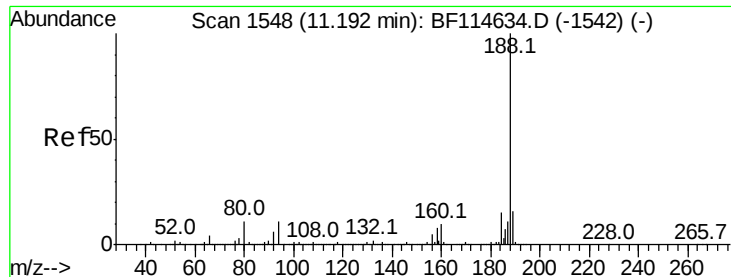
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 36.6  | 54.8# |
| 89      | 1.3   | 40.2  | 60.4# |



#57  
 2,4-Dinitrotoluene  
 Concen: 6.384 ng  
 RT: 9.72 min Scan# 1297  
 Delta R.T. -0.19 min  
 Lab File: BF114644.D  
 Acq: 29 May 2019 20:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 34.8  | 52.2# |
| 89      | 1.3   | 58.5  | 87.7# |
| 182     | 0.0   | 2.2   | 3.2#  |

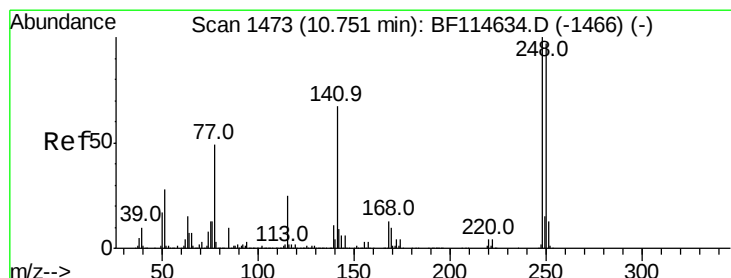
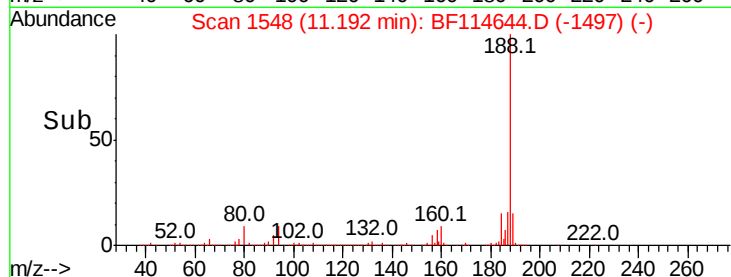
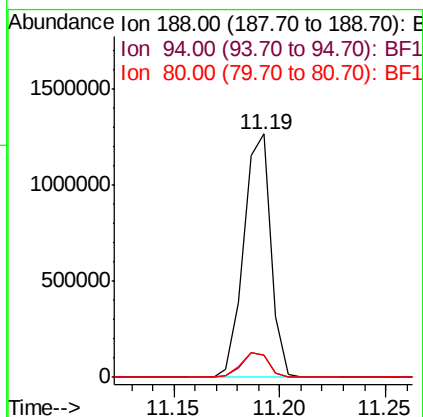
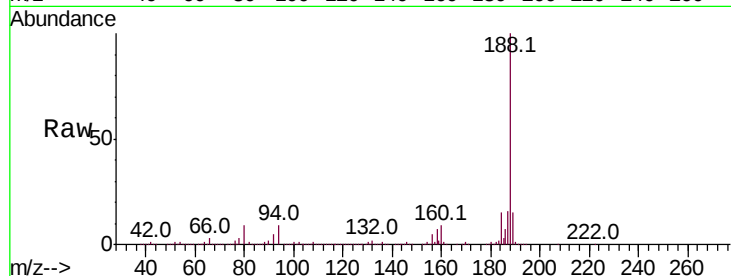




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.19 min Scan# 1548  
Delta R.T. -0.00 min  
Lab File: BF114644.D  
Acq: 29 May 2019 20:30

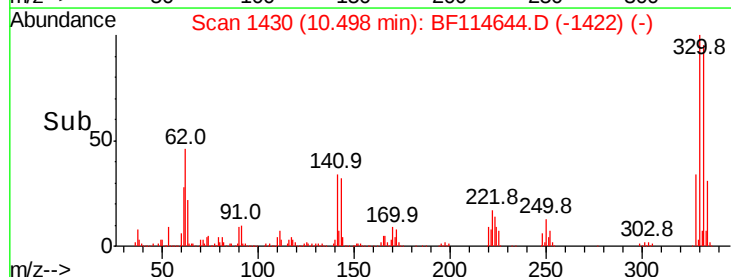
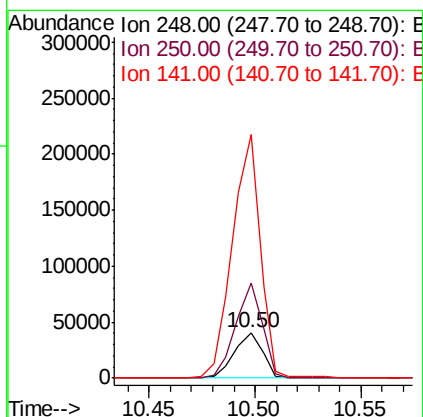
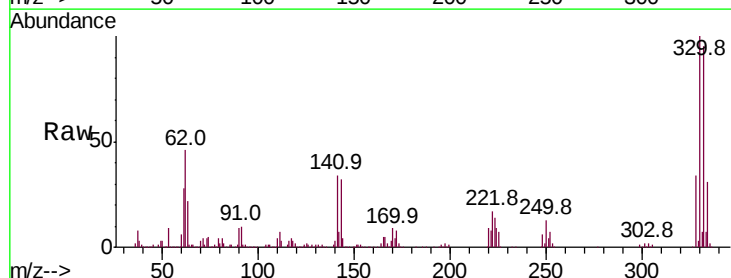
Instrument :  
BNA\_F  
ClientSampleId :  
B-4W(3-4)

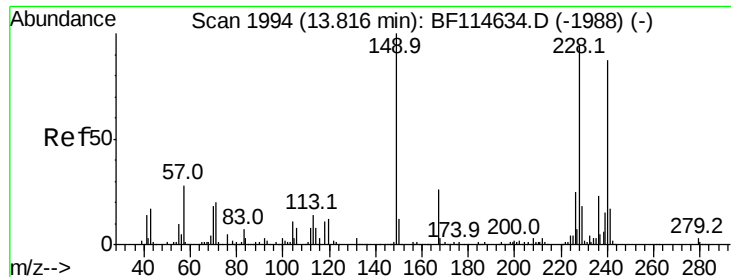
Tot Ion:188 Resp: 1126158  
Ion Ratio Lower Upper  
188 100  
94 9.1 8.6 13.0  
80 9.3 9.0 13.6



#67  
4-Bromophenyl-phenylether  
Concen: 3.122 ng  
RT: 10.50 min Scan# 1430  
Delta R.T. -0.25 min  
Lab File: BF114644.D  
Acq: 29 May 2019 20:30

Tgt Ion:248 Resp: 37703  
Ion Ratio Lower Upper  
248 100  
250 206.3 78.0 117.0#  
141 531.0 53.8 80.8#





#76

Chrvsene-d12

Concen: 20.000 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.01 min

Lab File: BF114644.D

Acq: 29 May 2019 20:30

Instrument :

BNA\_F

ClientSampleId :

B-4W(3-4)

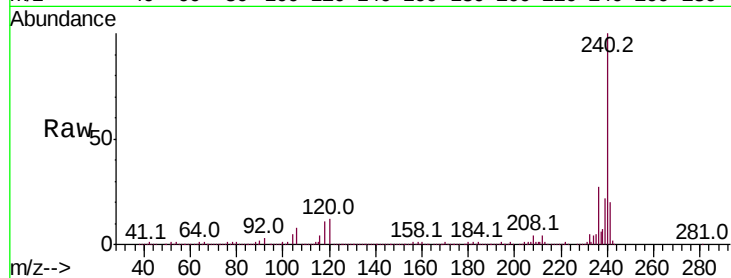
Tot Ion:240 Resp: 938923

Ion Ratio Lower Upper

240 100

120 12.5 11.2 16.8

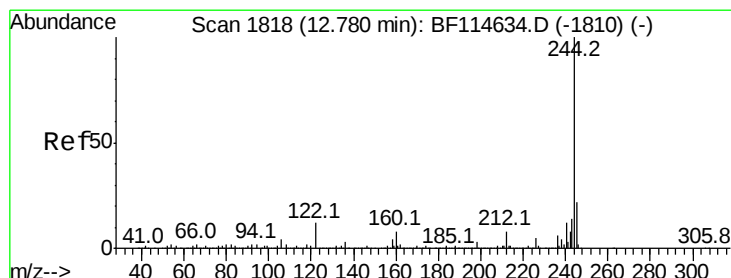
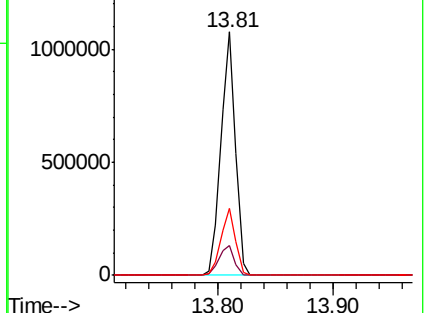
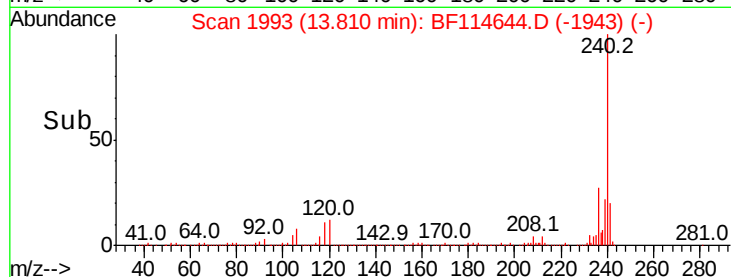
236 27.5 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#79

Terphenyl-d14

Concen: 54.222 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF114644.D

Acq: 29 May 2019 20:30

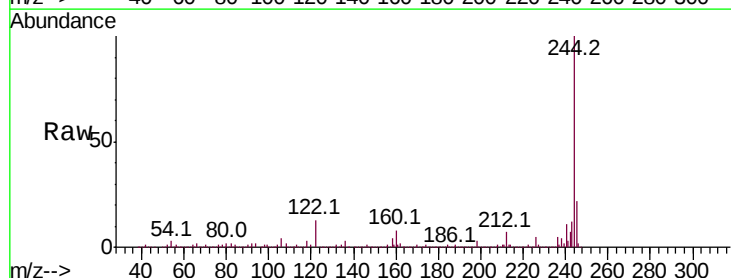
Tgt Ion:244 Resp: 2707760

Ion Ratio Lower Upper

244 100

212 7.3 6.1 9.1

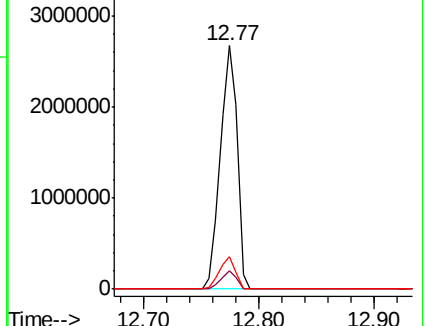
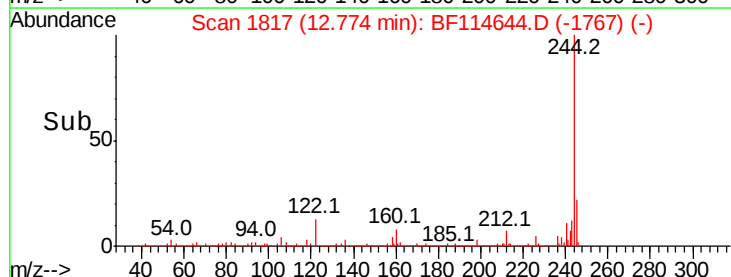
122 13.1 9.8 14.8

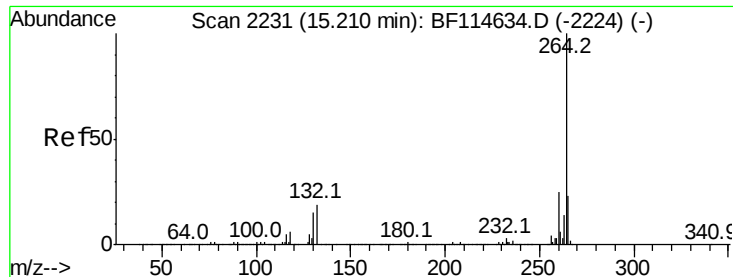


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.20 min Scan# 2229  
 Delta R.T. -0.01 min  
 Lab File: BF114644.D  
 Acq: 29 May 2019 20:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-4W(3-4)

Tot Ion:264 Resp: 865184  
 Ion Ratio Lower Upper  
 264 100  
 260 24.5 19.7 29.5  
 265 21.6 18.1 27.1

