

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010819\  
 Data File : BF111933.D  
 Acq On : 9 Jan 2019 4:02  
 Operator : JU/SJ  
 Sample : K1053-01DL 10X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-1-DRUMDL

Quant Time: Jan 09 05:27:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 07 14:33:51 2019  
 Response via : Initial Calibration

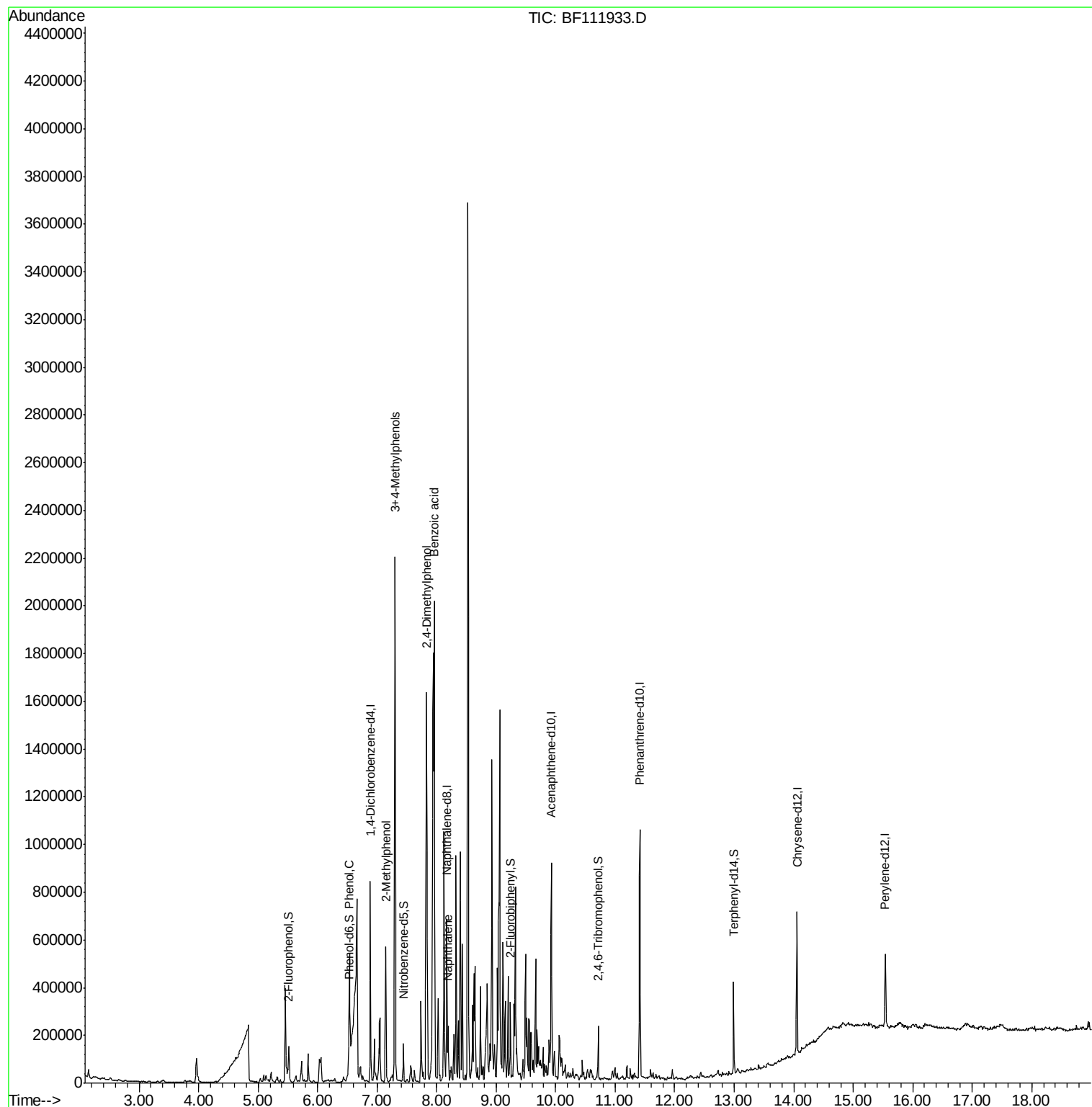
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|---------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.89  | 152  | 117057   | 20.00   | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.17  | 136  | 313077   | 20.00   | ng    | 0.00        |
| 39) Acenaphthene-d10        | 9.93  | 164  | 159356   | 20.00   | ng    | 0.00        |
| 64) Phenanthrene-d10        | 11.42 | 188  | 364032   | 20.00   | ng    | 0.00        |
| 76) Chrysene-d12            | 14.06 | 240  | 197799   | 20.00   | ng    | 0.00        |
| 87) Perylene-d12            | 15.54 | 264  | 154033   | 20.00   | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |         |       |             |
| 5) 2-Fluorophenol           | 5.52  | 112  | 38526    | 5.63    | ng    | 0.00        |
| 7) Phenol-d6                | 6.52  | 99   | 24347    | 2.76    | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 43435    | 7.41    | ng    | -0.02       |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 26618    | 12.84   | ng    | 0.00        |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 94701    | 8.67    | ng    | 0.00        |
| 79) Terphenyl-d14           | 12.99 | 244  | 116463   | 11.18   | ng    | 0.00        |
| Target Compounds            |       |      |          |         |       |             |
| 10) Phenol                  | 6.54  | 94   | 131760   | 13.747  | ng    | Qvalue # 71 |
| 17) 2-Methylphenol          | 7.15  | 107  | 83182    | 13.622  | ng    | 95          |
| 20) 3+4-Methylphenols       | 7.30  | 107  | 528876   | 69.593  | ng    | # 66        |
| 27) 2,4-Dimethylphenol      | 7.83  | 122  | 394969   | 93.624  | ng    | 100         |
| 31) Naphthalene             | 8.19  | 128  | 82070    | 5.522   | ng    | 100         |
| 32) Benzoic acid            | 7.96  | 122  | 642893   | 234.831 | ng    | # 11        |

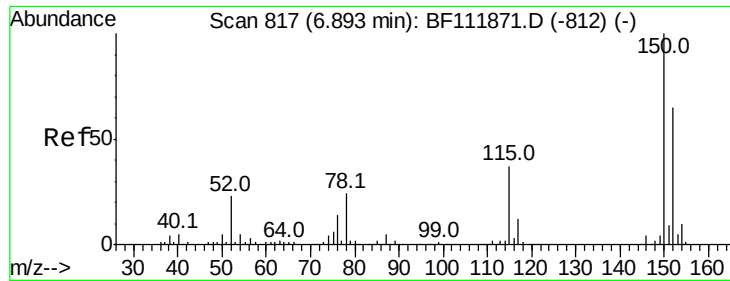
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010819\  
Data File : BF111933.D  
Acq On : 9 Jan 2019 4:02  
Operator : JU/SJ  
Sample : K1053-01DL 10X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1-DRUMDL

Quant Time: Jan 09 05:27:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 07 14:33:51 2019  
Response via : Initial Calibration



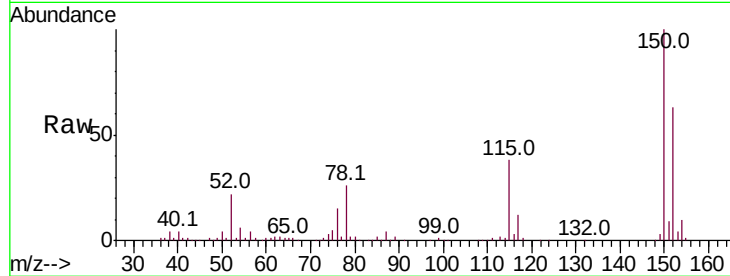


#1

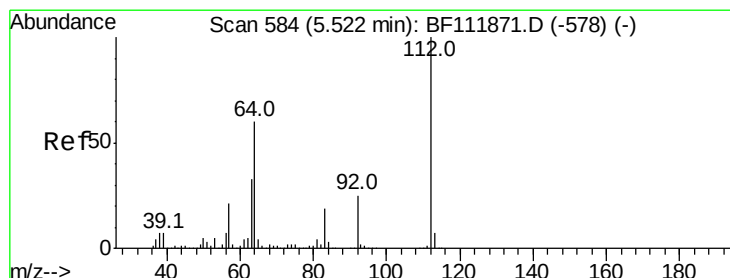
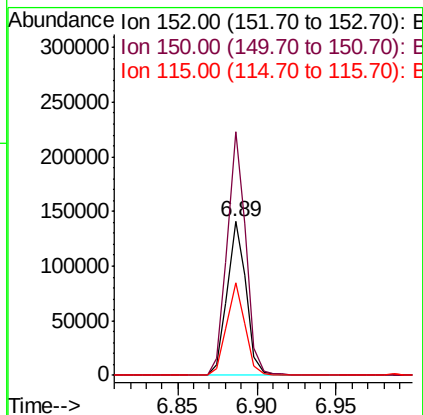
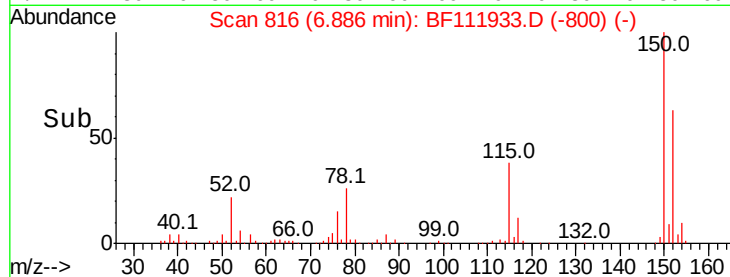
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.89 min Scan# 816  
 Delta R.T. -0.01 min  
 Lab File: BF111933.D  
 Acq: 9 Jan 2019 4:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-1-DRUMDL

Tot Ion:152 Resp: 117057  
 Ion Ratio Lower Upper  
 152 100  
 150 158.1 122.7 184.1  
 115 60.4 45.2 67.8



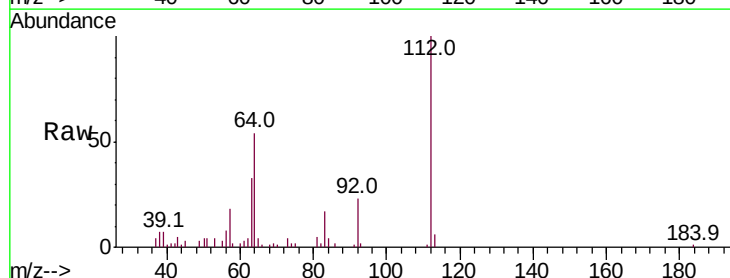
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



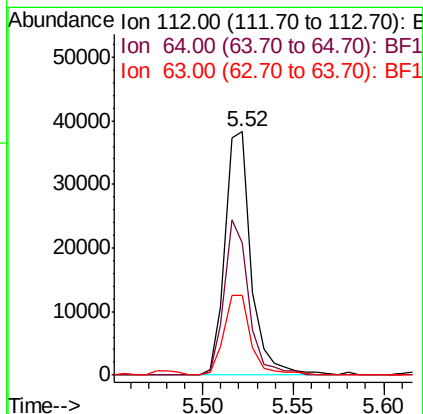
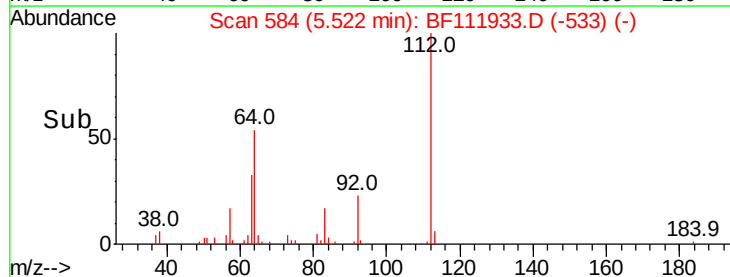
#5

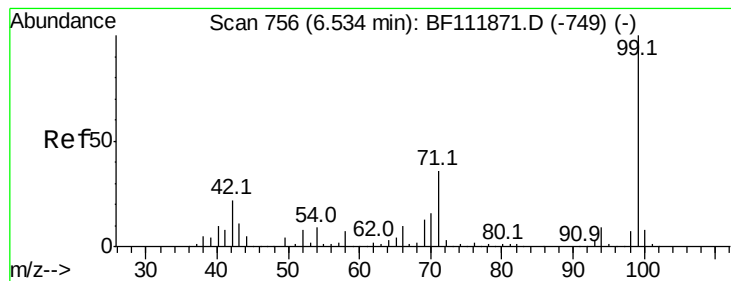
2-Fluorophenol  
 Concen: 5.631 ng  
 RT: 5.52 min Scan# 584  
 Delta R.T. -0.00 min  
 Lab File: BF111933.D  
 Acq: 9 Jan 2019 4:02

Tgt Ion:112 Resp: 38526  
 Ion Ratio Lower Upper  
 112 100  
 64 54.1 48.3 72.5  
 63 32.7 26.1 39.1



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: 2.761 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

Instrument :

BNA\_F

ClientSampleId :

COMP-1-DRUMDL

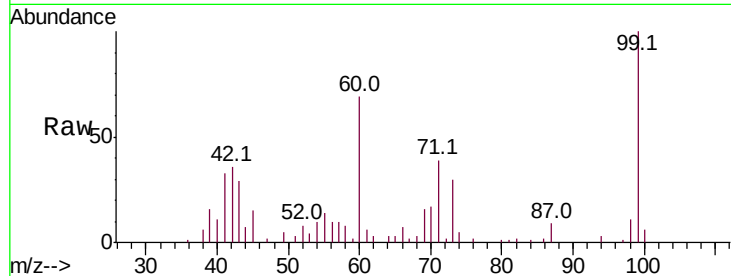
Tot Ion: 99 Resp: 24347

Ion Ratio Lower Upper

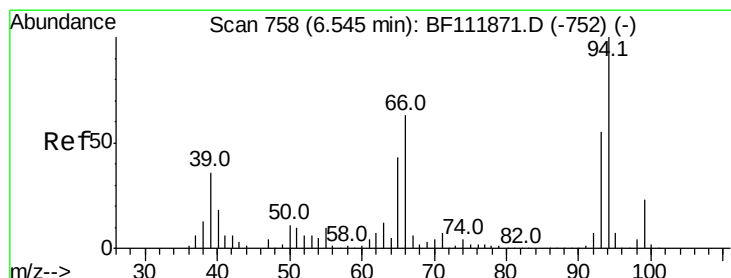
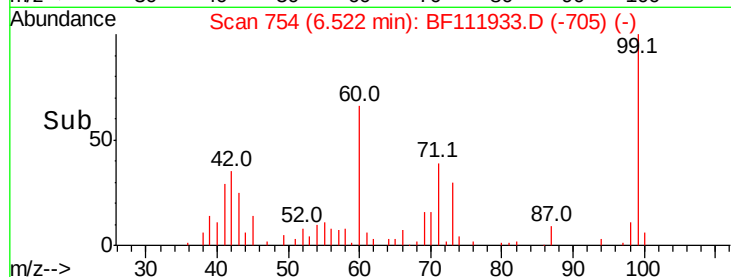
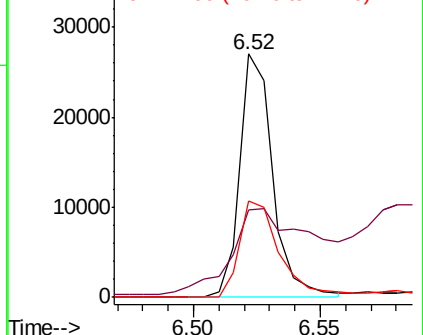
99 100

42 36.0 17.9 26.9#

71 39.5 28.7 43.1



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: 13.747 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

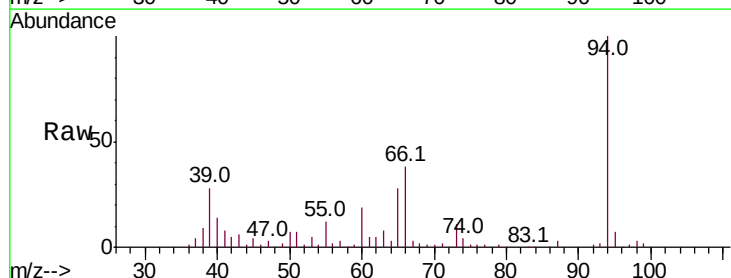
Tgt Ion: 94 Resp: 131760

Ion Ratio Lower Upper

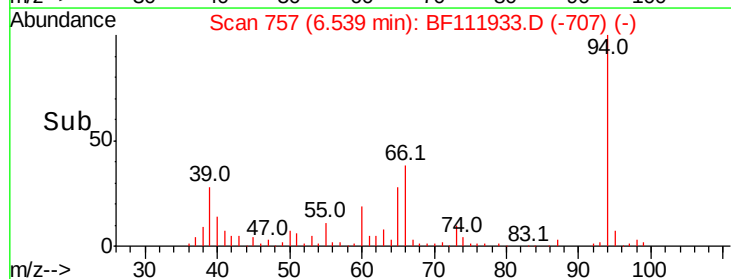
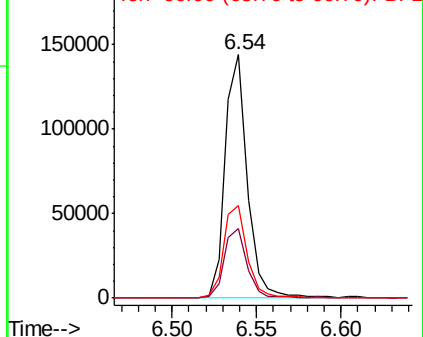
94 100

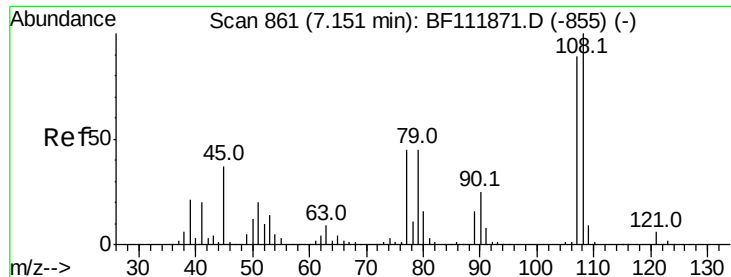
65 28.4 22.8 62.8

66 38.0 43.3 83.3#



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

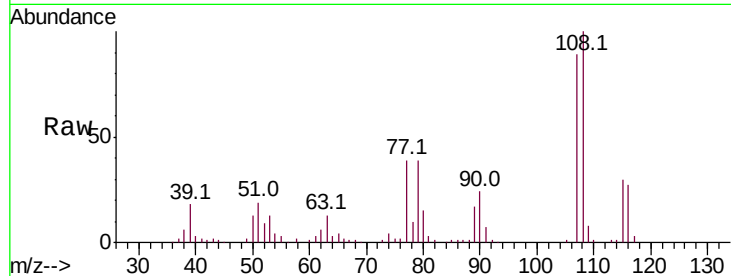




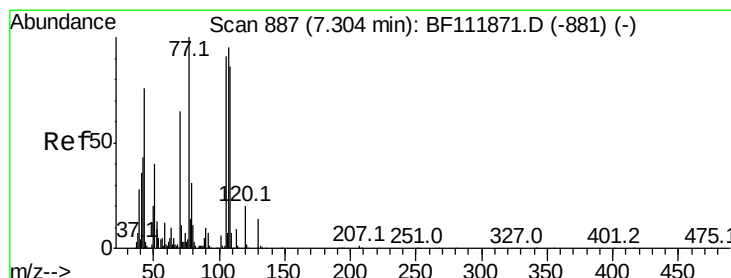
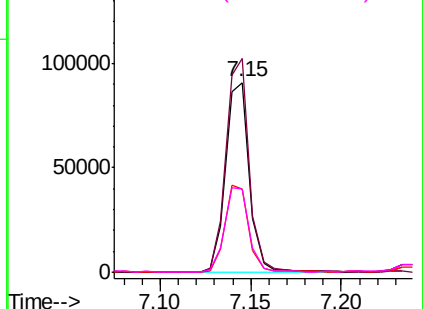
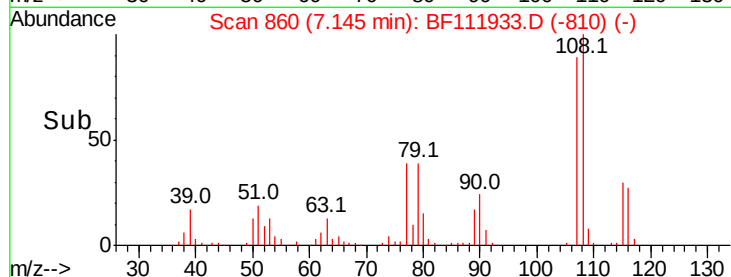
#17  
2-Methylphenol  
Concen: 13.622 ng  
RT: 7.15 min Scan# 860  
Delta R.T. -0.01 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1-DRUMDL

Tot Ion:107 Resp: 83182  
Ion Ratio Lower Upper  
107 100  
108 112.6 89.7 134.5  
77 44.2 40.6 60.8  
79 43.9 40.2 60.2

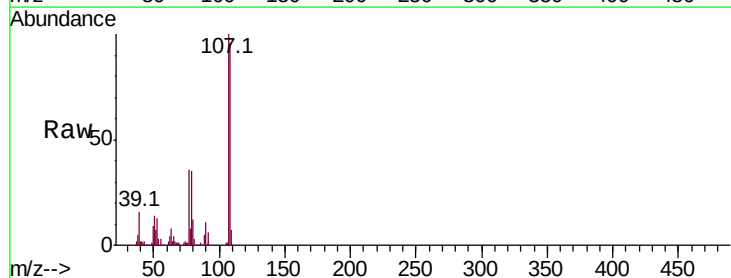


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

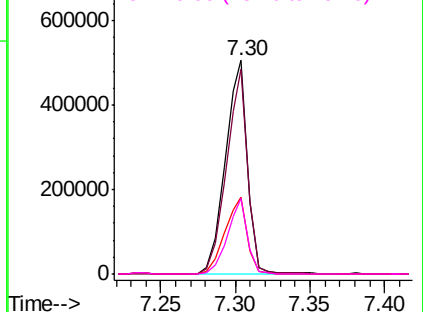
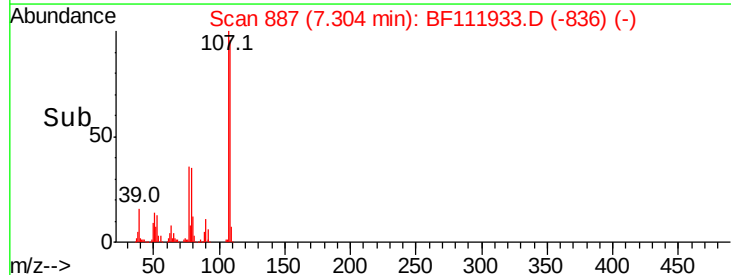


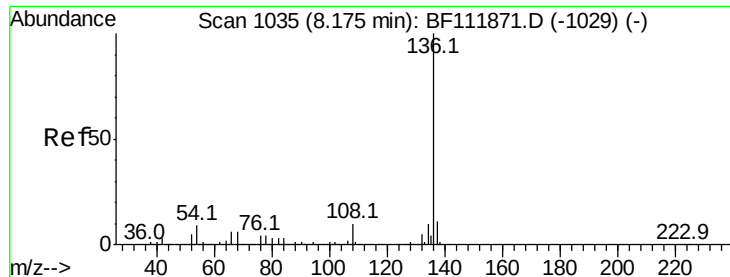
#20  
3+4-Methylphenols  
Concen: 69.593 ng  
RT: 7.30 min Scan# 887  
Delta R.T. -0.00 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

Tgt Ion:107 Resp: 528876  
Ion Ratio Lower Upper  
107 100  
108 95.7 71.1 111.1  
77 36.1 85.4 125.4#  
79 35.1 12.4 52.4



Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

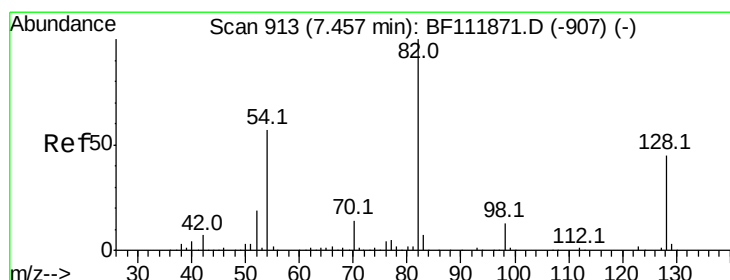
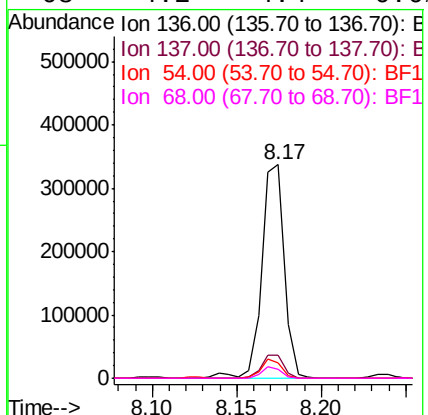
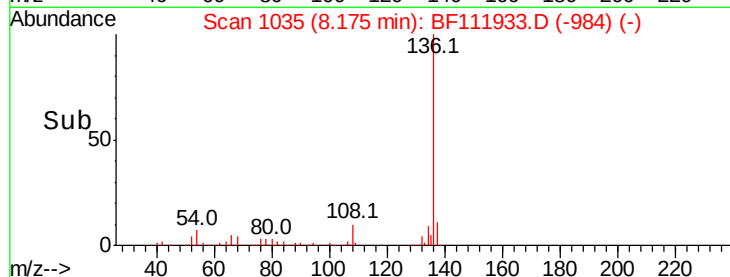
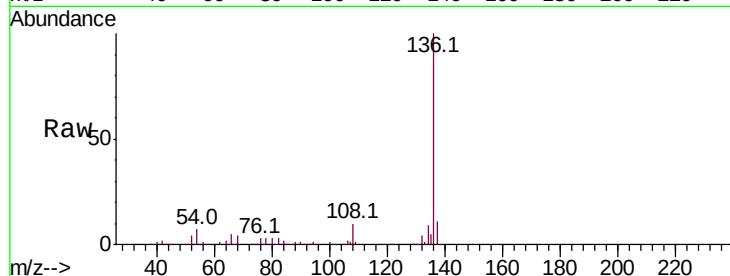




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1035  
Delta R.T. -0.00 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

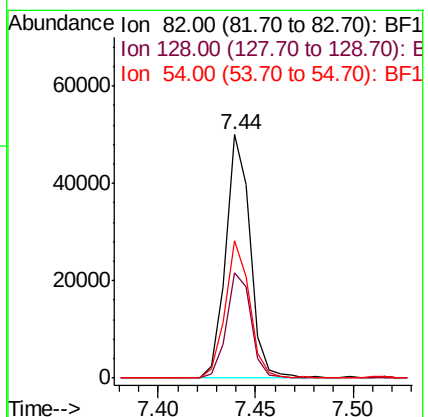
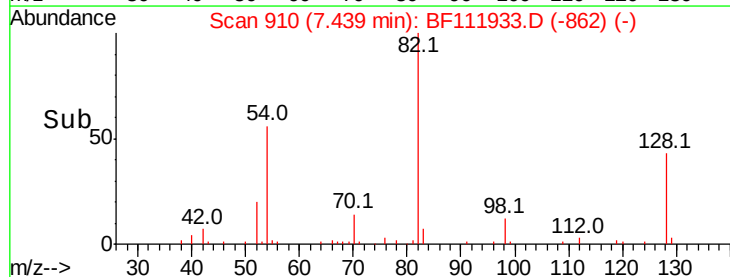
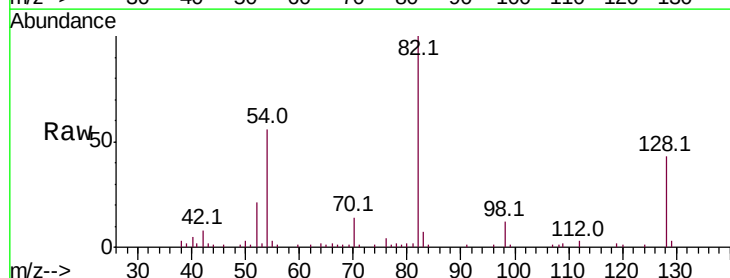
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1-DRUMDL

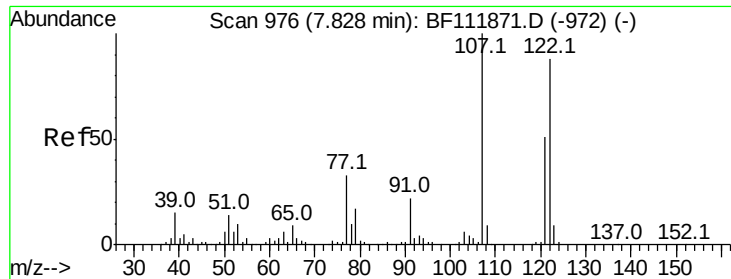
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 313077   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.5  | 9.1 13.7 |
| 54          | 7.3   | 7.2 10.8 |
| 68          | 4.2   | 4.4 6.6# |



#23  
Nitrobenzene-d5  
Concen: 7.415 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.02 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 43435     |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 43.0  | 35.7 53.5 |
| 54          | 56.3  | 45.8 68.8 |

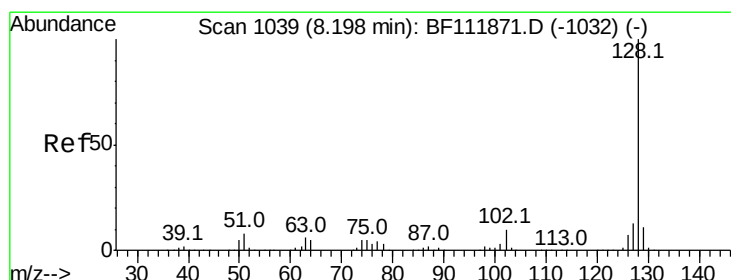
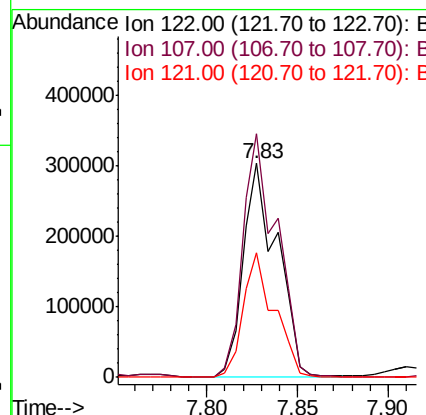
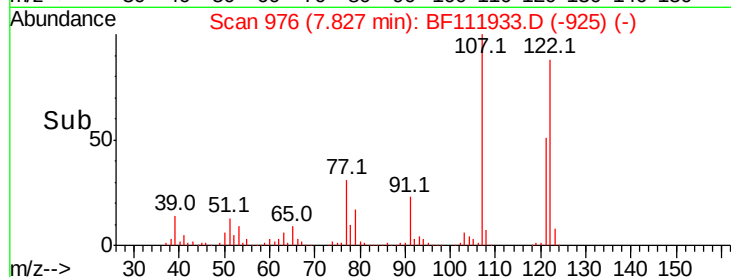
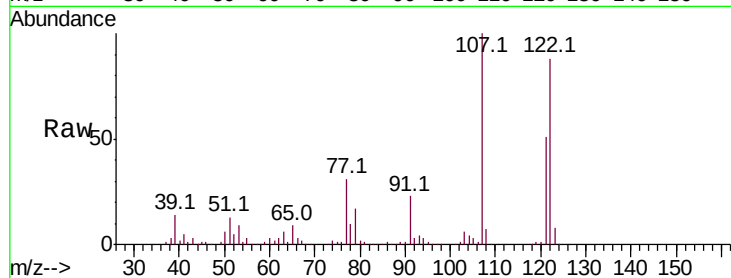




#27  
2,4-Dimethylphenol  
Concen: 93.624 ng  
RT: 7.83 min Scan# 976  
Delta R.T. -0.00 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

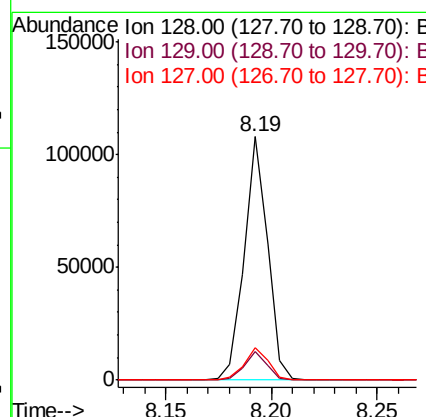
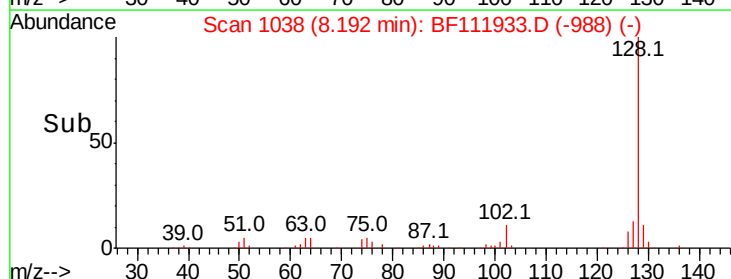
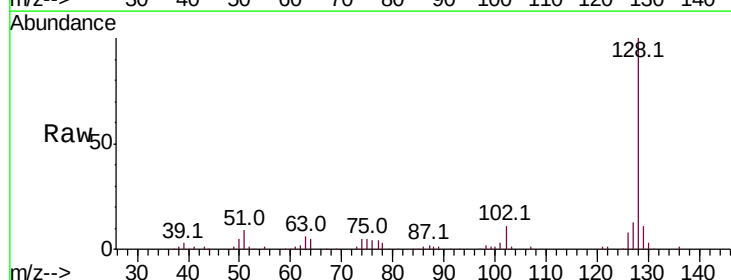
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1-DRUMDL

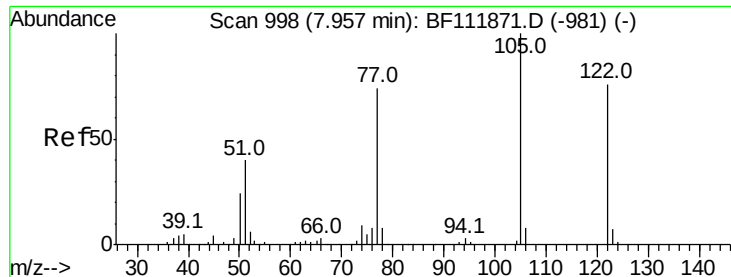
Tot Ion:122 Resp: 394969  
Ion Ratio Lower Upper  
122 100  
107 113.8 91.0 136.6  
121 58.0 46.8 70.2



#31  
Naphthalene  
Concen: 5.522 ng  
RT: 8.19 min Scan# 1038  
Delta R.T. -0.01 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

Tgt Ion:128 Resp: 82070  
Ion Ratio Lower Upper  
128 100  
129 11.5 9.0 13.4  
127 13.4 10.7 16.1





#32

Benzoic acid

Concen: 234.831 ng

RT: 7.96 min Scan# 999

Delta R.T. 0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

Instrument :

BNA\_F

ClientSampleId :

COMP-1-DRUMDL

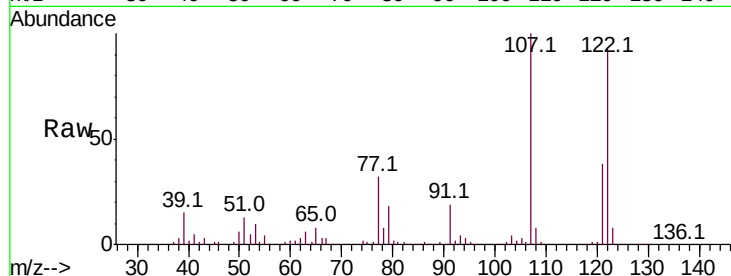
Tot Ion:122 Resp: 642893

Ion Ratio Lower Upper

122 100

105 3.5 107.9 147.9#

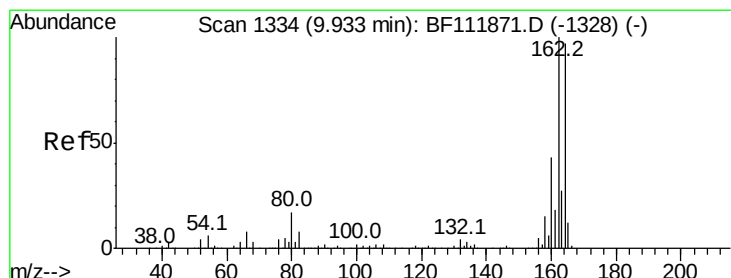
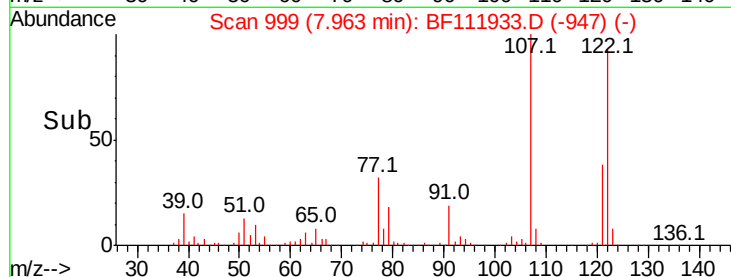
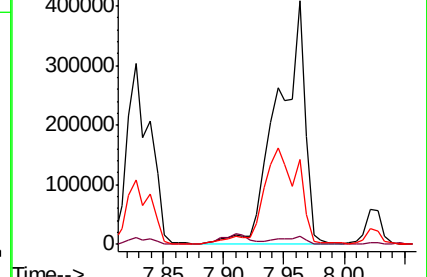
77 34.8 76.6 116.6#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

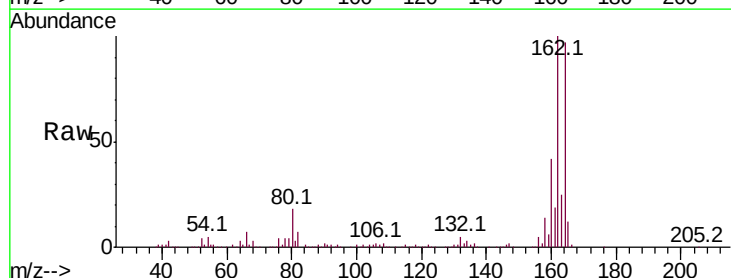
Tgt Ion:164 Resp: 159356

Ion Ratio Lower Upper

164 100

162 103.0 82.2 123.2

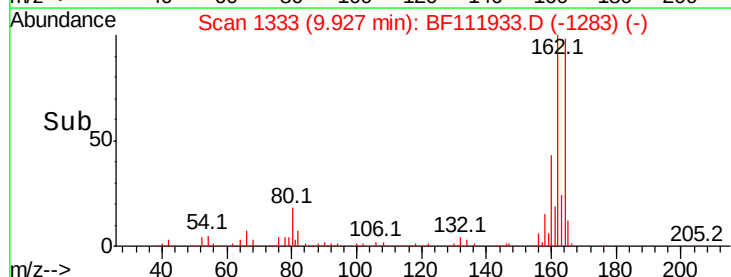
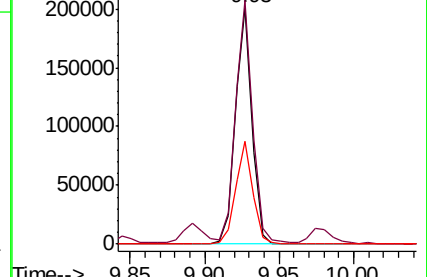
160 43.6 35.5 53.3



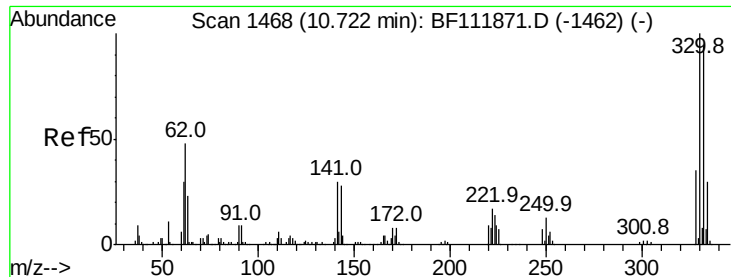
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E







#42

2,4,6-Tribromophenol

Concen: 12.842 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

Instrument :

BNA\_F

ClientSampleId :

COMP-1-DRUMDL

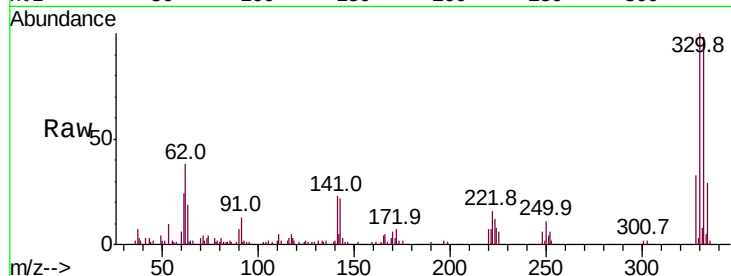
Tot Ion:330 Resp: 26618

Ion Ratio Lower Upper

330 100

332 99.5 76.9 115.3

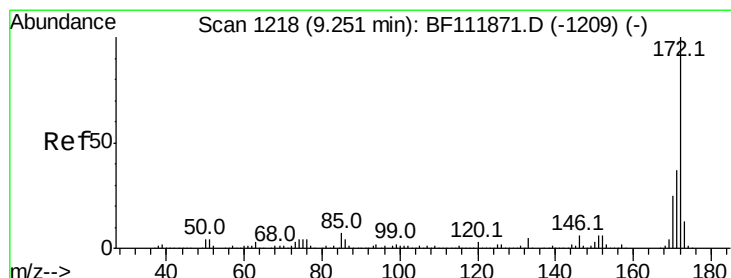
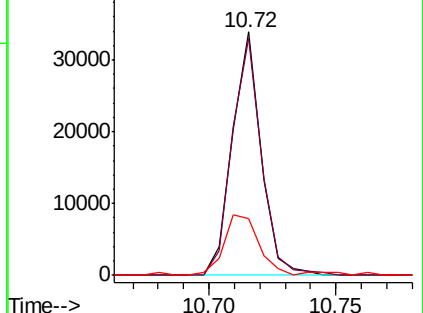
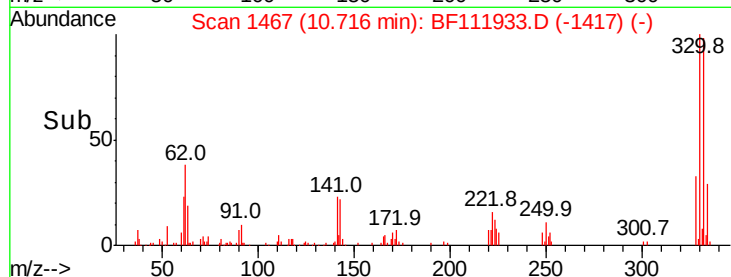
141 31.1 23.7 35.5



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: 8.666 ng

RT: 9.25 min Scan# 1217

Delta R.T. -0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

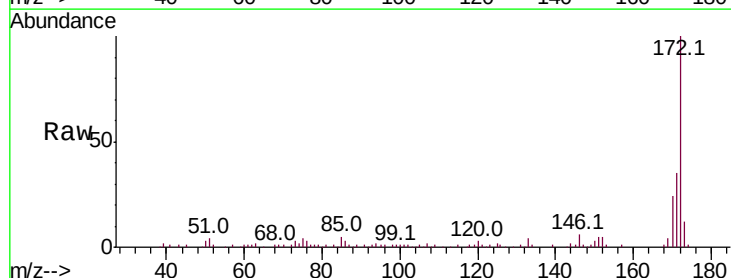
Tgt Ion:172 Resp: 94701

Ion Ratio Lower Upper

172 100

171 35.0 29.6 44.4

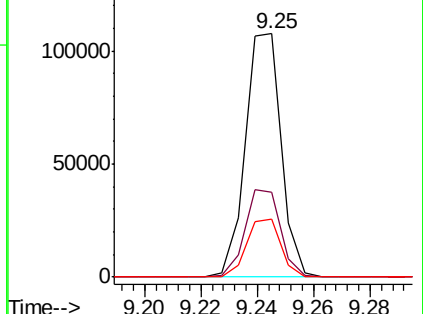
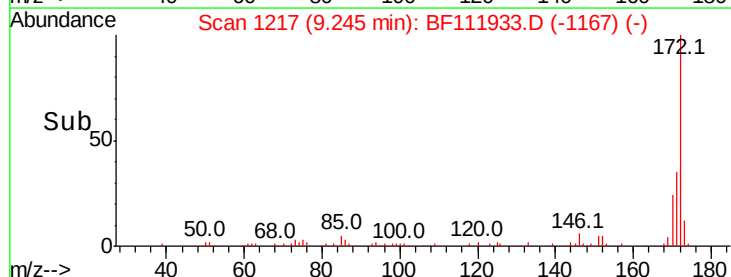
170 23.6 19.8 29.8

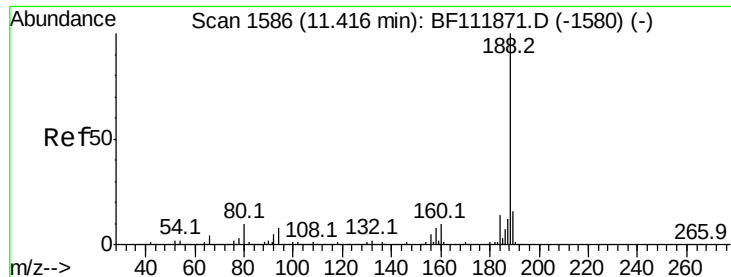


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

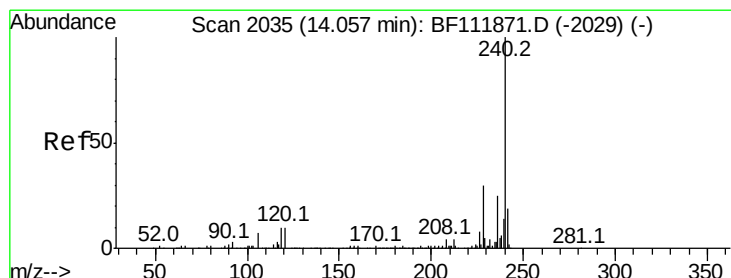
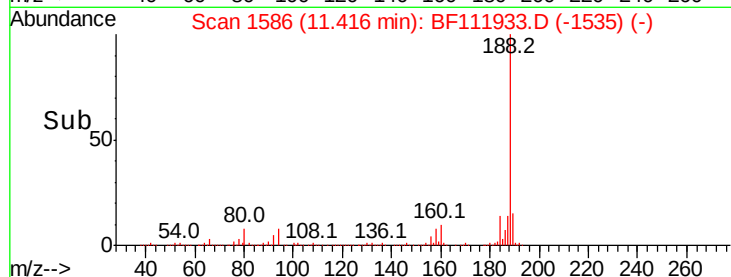
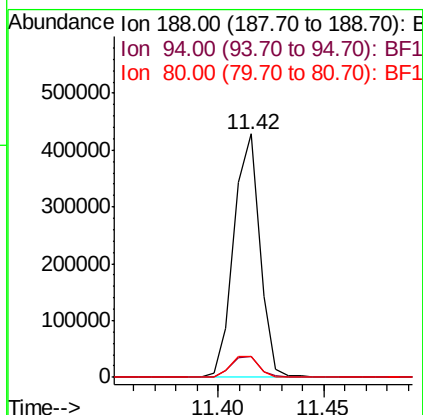
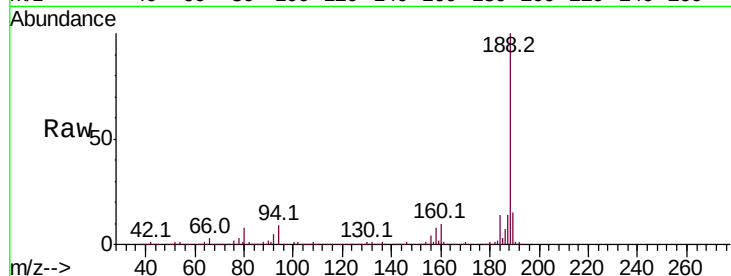




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.00 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

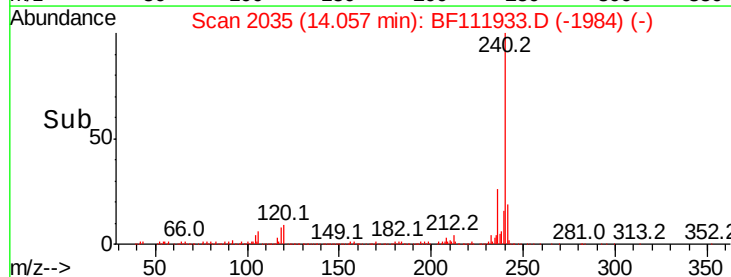
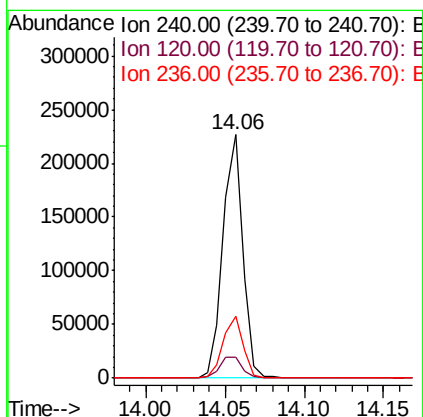
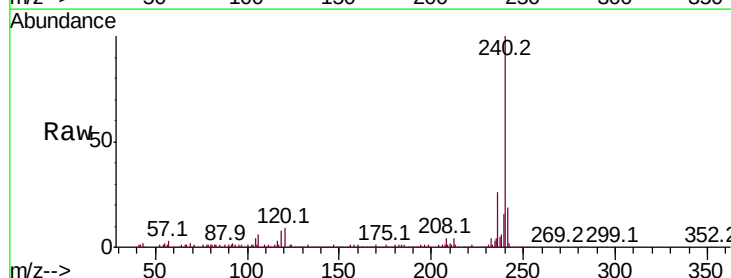
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1-DRUMDL

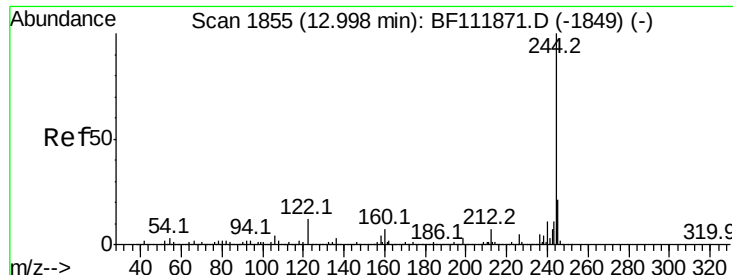
Tot Ion:188 Resp: 364032  
Ion Ratio Lower Upper  
188 100  
94 8.7 6.6 10.0  
80 8.4 7.7 11.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.00 min  
Lab File: BF111933.D  
Acq: 9 Jan 2019 4:02

Tgt Ion:240 Resp: 197799  
Ion Ratio Lower Upper  
240 100  
120 8.7 8.2 12.2  
236 25.6 20.2 30.4





#79

Terphenyl-d14

Concen: 11.177 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

Instrument :

BNA\_F

ClientSampleId :

COMP-1-DRUMDL

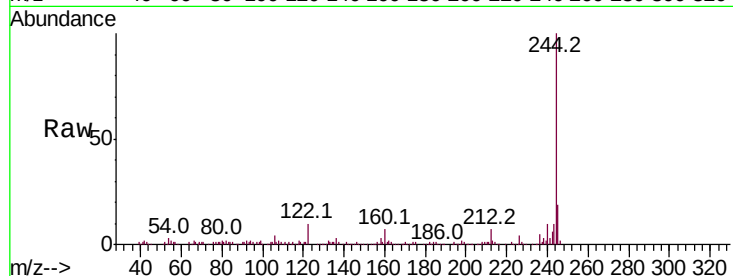
Tot Ion:244 Resp: 116463

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

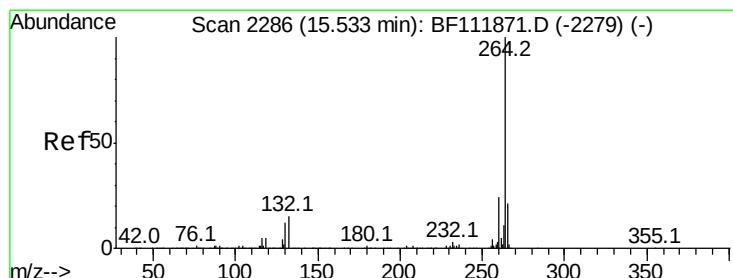
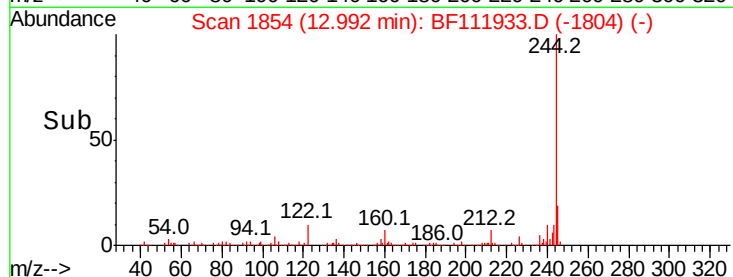
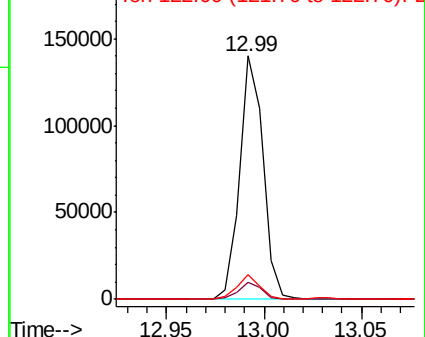
122 10.3 9.5 14.3



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: 15.54 min Scan# 2287

Delta R.T. 0.01 min

Lab File: BF111933.D

Acq: 9 Jan 2019 4:02

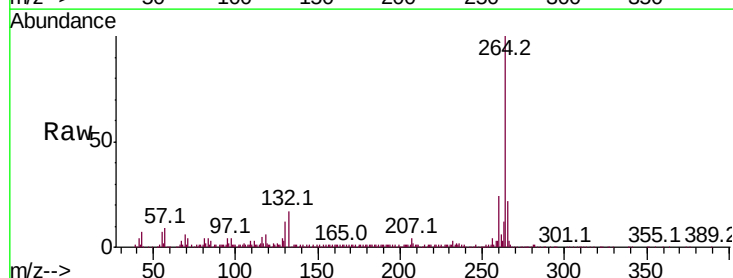
Tgt Ion:264 Resp: 154033

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

265 22.2 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

